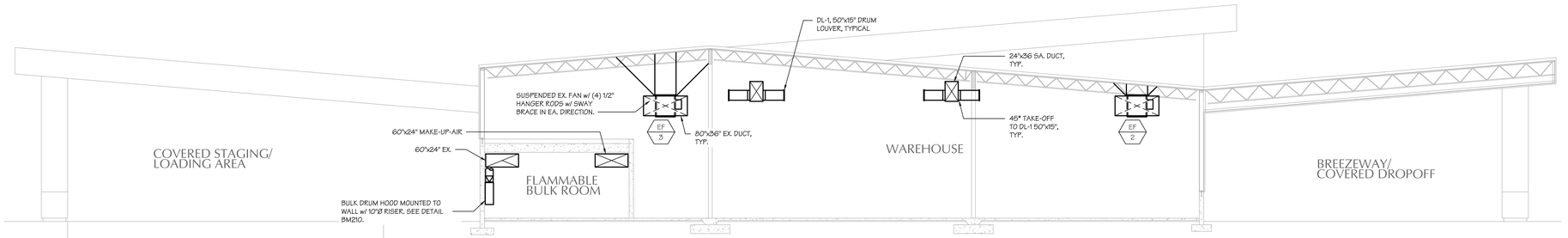


INTERIOR SECTION - 'A'

SCALE: 1/8"=1'-0"

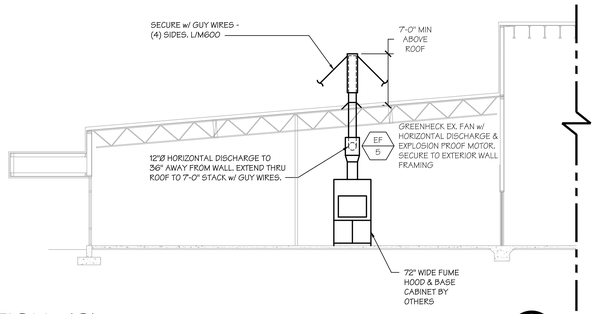
A



INTERIOR SECTION - 'B'

SCALE: 1/8"=1'-0"

B



INTERIOR SECTION - 'C'

SCALE: 1/8"=1'-0"

C

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A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

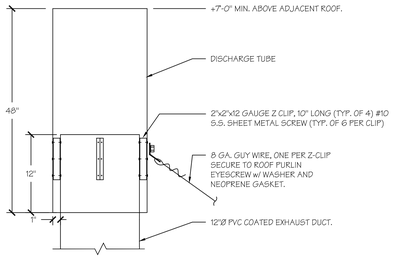
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION
1	PLAN CHECK
2	PLAN CHECK

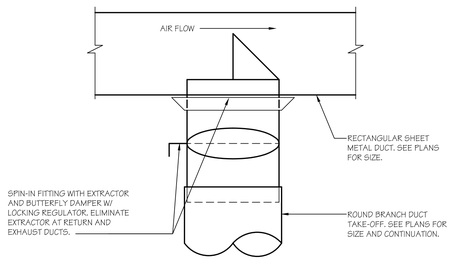
JOB	M500
DR	
CH	



EXHAUST DUCT DISCHARGE

SCALE: N.T.S.

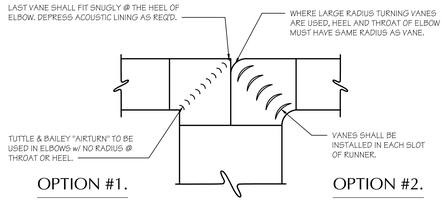
L



SPIN-IN TAKE OFF

SCALE: N.T.S.

I



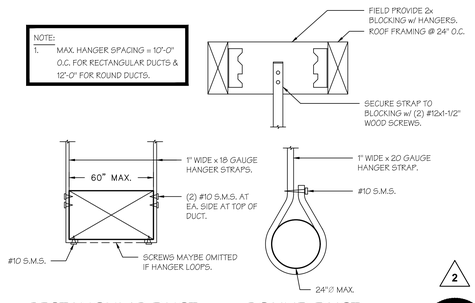
NOTE:
1. TYPICAL FOR ALL RECTANGULAR SUPPLY & RETURN DUCTS.
2. REFER TO SMACNA FIG. 2-1 & 2-2, TYPICAL.

TURNING VANE

SCALE: N.T.S.

J

NOTE:
1. MAX. HANGER SPACING = 10'-0" O.C. FOR RECTANGULAR DUCTS & 12'-0" FOR ROUND DUCTS.

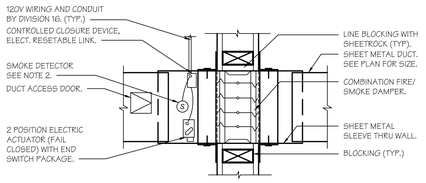


RECTANGULAR DUCT ROUND DUCT

DUCT HANGERS

SCALE: N.T.S.

2 M

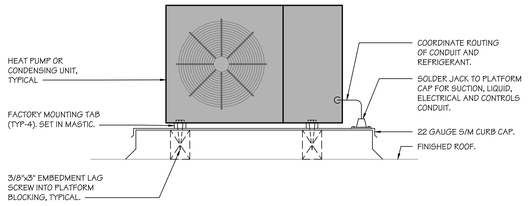


NOTES:
1. 16 GA. L FRAME WELDED, BOLTED OR SCREWED TO ALL 4 SIDES OF SLEEVE. L FRAME SHALL BE DESIGNED TO LAP WALL NOT LESS THAN 1". ROUGH OPENING IN MASONRY WALLS AND NET OPENING IN FRAME WALLS SHALL EXCEED NET O.D. OF DAMPER ASSEMBLY. DO NOT FASTEN SIDES OR TOP OF L TO WALL OR PARTITION.
2. FACTORY MOUNTED & WIRED DUCT SMOKE DETECTOR, S.D. SHALL BE CSFM LISTED & SHALL HAVE AUXILIARY CONTACTS FOR FAP MONITORING. FIRE/SMOKE DAMPER SHALL BE STATE FIRE MARSHAL APPROVED OR UL LISTED AND INSTALLED
3. STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS.
4. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTION AUTHORITIES.

FIRE/SMOKE DAMPER THROUGH WALL

SCALE: N.T.S.

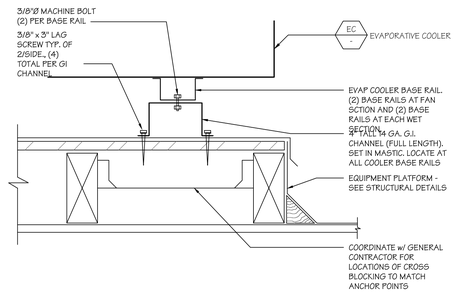
K



OUTDOOR HEAT PUMP UNIT

SCALE: N.T.S.

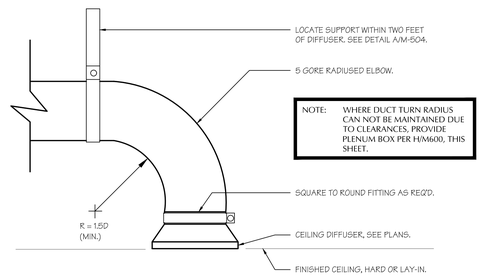
E



EVAPORATIVE COOLER SUPPORT

SCALE: N.T.S.

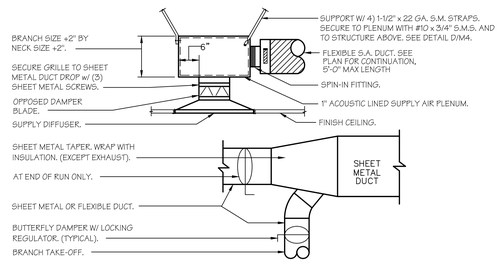
F



CEILING DIFFUSER/REGISTER CONNECTION

SCALE: N.T.S.

G

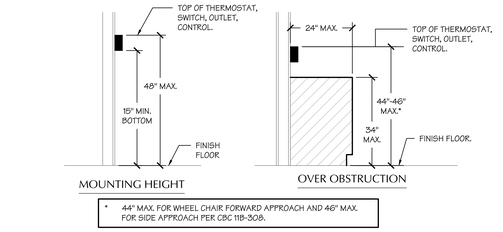


NOTES:
1. TYPICAL FOR ALL ROUND SUPPLY AND EXHAUST DUCTS.
2. SEE PLAN FOR SIZE.
3. WHERE VOLUME DAMPERS ARE LOCATED ABOVE A GYP. BOARD CEILING OR OTHER AREAS THAT ARE NOT READILY ACCESSIBLE, PROVIDE VOLUME DAMPER w/BELDON CABLE AND REMOTE CEILING MTD. ACTUATOR, YOUNG REGULAR OR EQUAL.

SUPPLY AIR PLENUM & BRANCH TAKE-OFFS

SCALE: N.T.S.

H

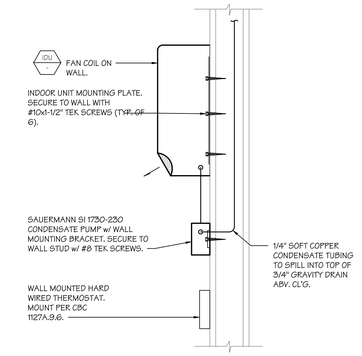


* 44" MAX. FOR WHEEL CHAIR FORWARD APPROACH AND 46" MAX. FOR SIDE APPROACH PER CBC 11B-308.

THERMOSTAT MOUNTING LOCATION

SCALE: N.T.S.

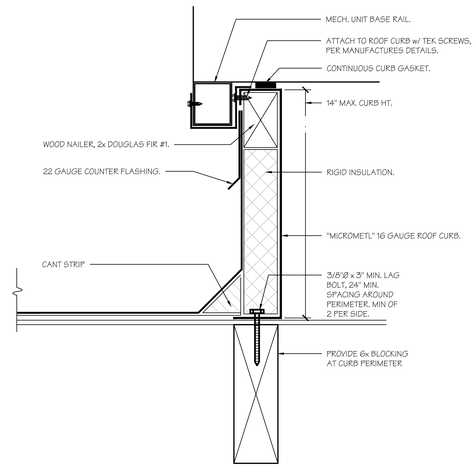
A



INDOOR UNIT - WALL CASSETTE

SCALE: N.T.S.

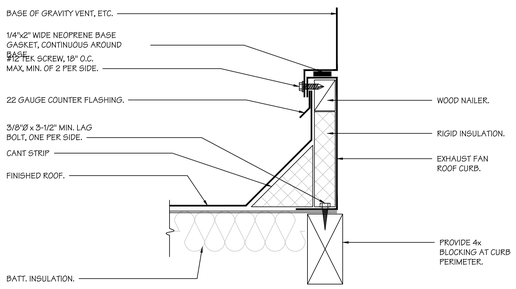
B



A.C. UNIT ANCHORAGE - ROOF MOUNTED

SCALE: N.T.S.

C



EXHAUST FAN ANCHORAGE

SCALE: N.T.S.

D

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Job: 23110
Plt: 09-10-25

REGISTERED PROFESSIONAL ENGINEER DENNIS JAMES MCNAMARA No. M26572 Exp. 06-30-26 MECHANICAL STATE OF CALIFORNIA

KERN COUNTY APPROVED BUILDING INSPECTION 10/6/2025 4:05:23 PM K2024088865 RUIZJORGE
KEEP APPROVED PLANS ON JOB
MAKE NO CHANGES WITHOUT APPROVAL
10/6/2025 Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

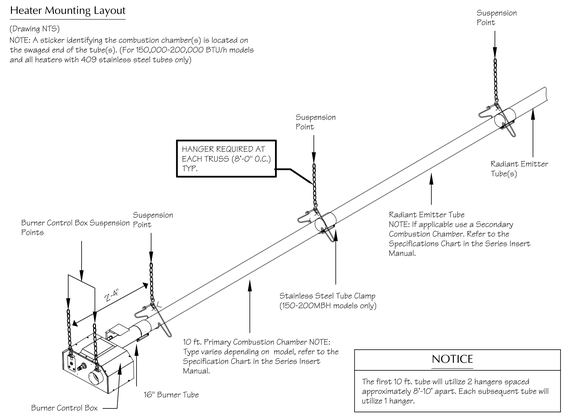
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION
1	BLACK CHECK
2	BLACK CHECK

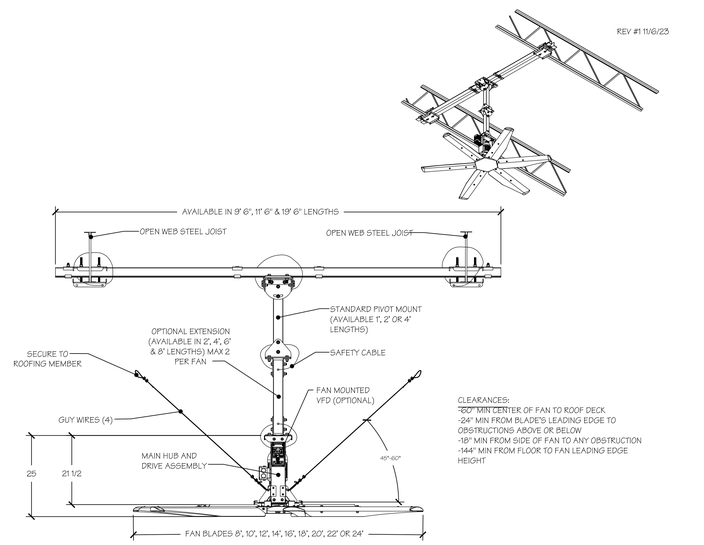
DRAWN BY:	M600
CHECKED BY:	
PROJECT NO:	



HEATER MOUNTING

SCALE: NTS

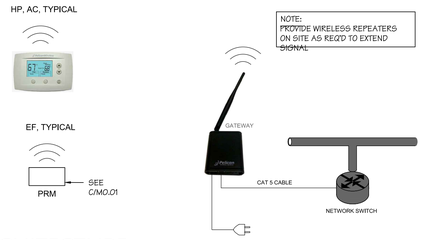
D



HVLS - HIGH VOLUME LOW SPEED FAN

SCALE: NTS

E



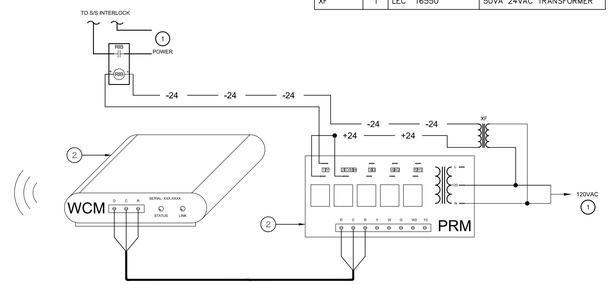
LAN ARCHITECTURE

SCALE: N.T.S.

A

Sheet Notes
1 LINE VOLTAGE & CONDUIT BY DIVISION 26. ELEC. CONTRACTOR
2 INSTALL ABOVE CEILING NEAR EX. FAN LOCATION.

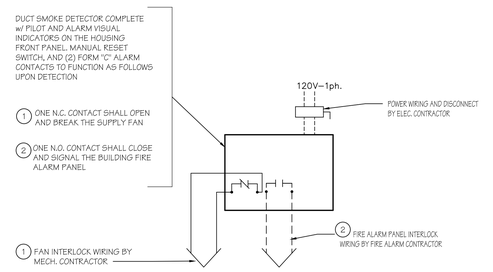
Control Components			
TAG	QTY	PART NUMBER	DESCRIPTION
WCM+PRM	1	PEL PM5	WIRELESS RELAY MODULE KIT
RIB	2	FUN RUBU1C	RELAY IN A BOX
XF	1	LEC 16550	50VA 24VAC TRANSFORMER



EX. FAN CONTROL DETAIL

SCALE: N.T.S.

B



NOTES:
1. DETECTOR PROVIDED BY MECH. CONTRACTOR.
2. DETECTOR SHALL BE INSTALLED PER 2016 C.M.C. 608.1.

DUCT SMOKE DETECTOR

SCALE: N.T.S.

C

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Plt: 09-10-25

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Exp. 06-30-26
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STATE OF CALIFORNIA

KERN COUNTY
APPROVED
BUILDING INSPECTION
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RUIZJORGE
K202408865
10/6/2025 4:03:23 PM
Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

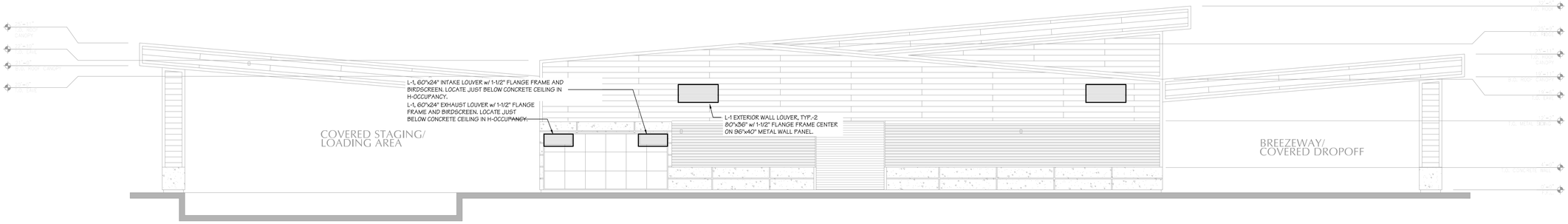
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION
1	PLAN CHECK
2	PLAN CHECK

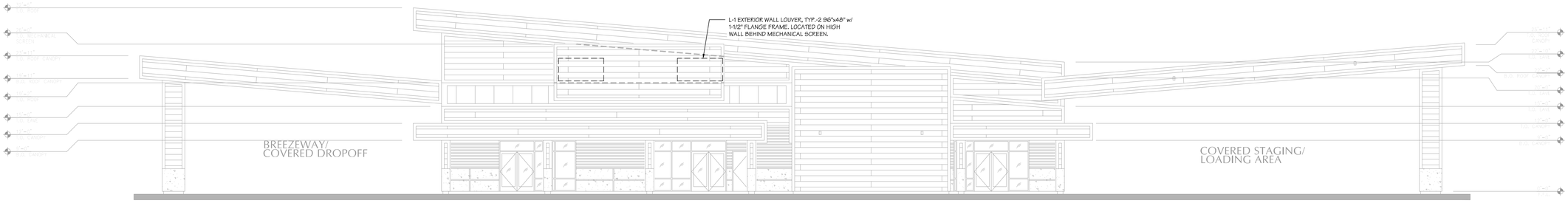
JOB	M601
SET	
PM	



EXTERIOR ELEVATIONS PLAN - EAST

SCALE: 1/8"=1'-0"

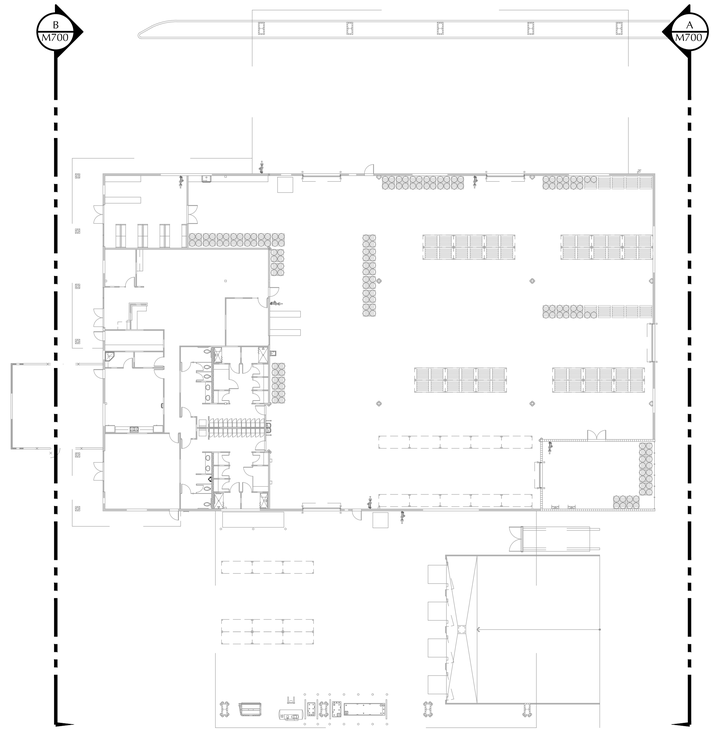
A



EXTERIOR ELEVATIONS PLAN - WEST

SCALE: 1/8"=1'-0"

B



OVERALL MECHANICAL FLOOR PLAN

SCALE: 1"=20'-0"

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Tel: (559) 237-0376
Job: 23110
Plt: 09-10-25

REGISTERED PROFESSIONAL ENGINEER — BRIAN JAMES BASKIN — No. M28572 — Exp. 06-30-26 — MECHANICAL — STATE OF CALIFORNIA

KERN COUNTY APPROVED BUILDING INSPECTION
KEEP APPROVED PLANS ON JOB
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RUIZJORGE
K202408865
10/6/2025, 4:05:23 PM
Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION
1	BACK CHECK
2	BACK CHECK

MEP	M700
SP	
PM	

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 1 of 18)**

Project Name: — **Date Prepared:** 2024-02-01

A. General Information

1	Project Name				
2	Run Title	Title 24 Analysis			
3	Project Location	- specify -			
4	City	- specify -	5	Standards Version	Compliance 2022
6	Zip code	99999	7	Compliance Software (version)	EnergyPro 9.2
8	Climate Zone	13	9	Building Orientation (deg)	0
10	Building Type(s)	• Nonresidential	11	Weather File	MEADOWS-FIELD_STYP20.epw
12	Project Scope	• New envelope and mechanical	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	4631	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	4631	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 2 of 18)**

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively		
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Performance	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Not Included	Photovoltaics (see Table F)	☒	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☐	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☒	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☐	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 3 of 18)**

C1. COMPLIANCE SUMMARY

COMPLIES[1]	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)
Standard Design	215.74	108.75	12.46
Proposed Design	205.36	91.44	12.42
Compliance Margins	**10.38**	**17.31**	**0.04**
	Pass	**Pass**	**Pass**

[1] *Efficiency measures include improvements like a better building envelope and more efficient equipment*
[2] *Compliance Totals include efficiency, photovoltaics and batteries*
[3] *New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 4 of 18)**

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

COMPLIES[2]			
Energy Component	**Standard Design (TDV)**	**Proposed Design (TDV)**	**Compliance Margin (TDV)[1]**
Space Heating	18.42	24.62	-6.2
Space Cooling	79.64	81.6	-1.96
Indoor Fans	66.28	56.35	9.93
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	14.13	5.52	8.61
Indoor Lighting	37.27	37.27	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**215.74**	**205.36**	**10.38 (4.8%)**
Photovoltaics	-101.91	-111.06	9.15
Batteries	-5.08	-2.86	-2.22
TOTAL COMPLIANCE	**108.75**	**91.44**	**17.31 (15.9%)**

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 5 of 18)**

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	90.88	90.88	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**199.63**	**182.32**	**17.31 (8.7%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 6 of 18)**

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES[2]			
Energy Component	**Standard Design (SOURCE)**	**Proposed Design (SOURCE)**	**Compliance Margin (SOURCE)[1]**
Space Heating	2.6	3.42	-0.82
Space Cooling	3.94	4.14	-0.2
Indoor Fans	5.89	5.34	0.55
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	2.44	2.02	0.42
Indoor Lighting	2.9	2.9	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**17.77**	**17.82**	**-0.05 (-0.3%)**
Photovoltaics	-3.9	-4.2	0.3
Batteries	-1.41	-1.2	-0.21
TOTAL COMPLIANCE	**12.46**	**12.42**	**0.04 (0.3%)**

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 7 of 18)**

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	6.66	6.66	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**19.12**	**19.08**	**0.04 (0.2%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 8 of 18)**

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	2.5	3.5	-1	---	---	---
Space Cooling	10.2	9.8	0.4	---	---	---
Indoor Fans	10.1	9	1.1	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	1.8	---	---	8.1	10.1	-2
Indoor Lighting	6.9	6.9	0	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**31.5**	**29.2**	**2.3**	**8.1**	**10.1**	**-2**
Photovoltaics	-23.9	-25.9	2	---	---	---
Batteries	0.2	0.2	0	---	---	---
ENERGY USE SUBTOTAL	**7.8**	**3.5**	**4.3**	**8.1**	**10.1**	**-2**
Receptacle	17.5	17.5	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**25.3**	**21**	**4.3**	**8.1**	**10.1**	**-2**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 9 of 18)**

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	38	36.74	1.26	3.32
NET EUI[1]	20.39	17.65	2.74	13.44

[1] *Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

D1. EXCEPTIONAL CONDITIONS

• The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.
• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
• PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.10 for Nonresidential or 170.2(g) for more information.

F1. REQUIRED PV SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	**Exception[1]**	**Module Type**	**Array Type**	**Power Electronics**	**CFI**	**Azimuth (deg)**	**Tilt Input**	**Array Angle (deg)**	**Tilt: (x in 12)**	**Inverter Eff. (%)**	**Annual Solar Access (%)**
15	n/a	Premium (~18-20%)	Fixed	DC Power Optimizers	false	180	Degrees	22	4.85	96	100

[1] *See Table D1 for any PV exceptions used.*

Skarphol/Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
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These drawings, related specifications, ideas, designs and arrangements represented thereby are and shall remain the property of the Architect and no part thereof shall be copied, disclosed to others used in connection with any work or project other than the specific project which they have been prepared and developed without the written consent of the Architect. Visual contact with these drawings or specifications shall constitute conclusive acceptance of these restrictions.

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 23110
Plt: 09-10-25

REGISTERED PROFESSIONAL ENGINEER — DENNIS JAMES MCNAMARA — No. M26573 — Exp. 6-30-25 — MECHANICAL — STATE OF CALIFORNIA

KERN COUNTY — APPROVED — BUILDING INSPECTION — KEEP APPROVED PLANS ON JOB — MAKE NO CHANGES WITHOUT APPROVAL
RUIZJORGE 2/21/2024, 4:05:23 PM K202408865
10/6/2024 Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

NO.	DESCRIPTION
1	BACK CHECK
2	BACK CHECK

JOB M800
DET
PLT

F1B. PV BATTERY BUILDING TYPE(S)

01	02	03
Building Occupancy Type* (From Table 140.10-A/B and 170.2-U/V)	Conditioned Floor Area (ft²)	Unconditioned Floor Area (ft²)
Grocery	0	0
High-Rise Multifamily	0	0
Office, Financial Institutions, Unleased Tenant Space	3983	0
Retail	648	0
School	0	0
Warehouse	0	0
Auditorium, Convention Center, Hotel/Motel, Library, Medical Office Building/Clinic, Restaurant, Theater	0	0
None	0	0

Building Occupancy Types are defined in Section 100.1 of the Energy Code

F2. BATTERY SYSTEMS[1]

01	02	03	04	05	06	07
Control	Capacity (kWh)	Charging Efficiency	Charging Rate (kW)	Discharging Efficiency	Discharging Rate (kW)	Round Trip Efficiency
Basic	25	N/A	5	N/A	5	0.9

[1]*See Table D1 for any Battery exceptions used.*

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	300	0	0
East-Facing[2]	0	0	0
South-Facing[3]	804	0	0
West-Facing[4]	1038	351	33.82
Total	**2142**	**351**	**16.39**
Roof	4631	8	0.17

Notes
[1]*North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
[2]*East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
[3]*South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
[4]*West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

G2A. ROOFING PRODUCT SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06
Assembly Name	Roof Pitch	Roof Rise (x in 12)	Aged Solar Reflectance	Thermal Emittance	SRI
R-0 Roof No Attic 4 RigiB	LowSlope	N/A	0.7	0.86	N/A

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
Com-Floor 1	No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status[1]
					Interior	Exterior				
R-0 Roof No Attic 4 RigiB	Roof	4,631	N/A	0	N/A	16.88	U-factor	0.0547	Metal Standing Seam - 1/16 in. Expanded Polystyrene - EPS - 4 1/16 in. R17 Plywood - 1/2 in.	N
R-21 Wall10	Exterior Wall	1,594	Wood	21	N/A	N/A	U-factor	0.0691	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in.	N
Slab On Grade13	Underground Floor	4,631	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N
R-21 Wall101	Interior Wall	100	Wood	21	N/A	N/A	U-factor	0.0659	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in.	N
8 Concrete Wall20	Exterior Wall	548	N/A	0	N/A	N/A	U-factor	0.6944	Concrete - 140 lb/ft3 - 8 in.	N

[1] *Status: N - New, A - Altered, E - Existing*

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method[1]	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
PPG SOLARBAN 70 XL Clear	Vertical fenestration Fixed window N/A	NFRC	Site built	351	0.57	0.4	0.63	N
Velux Skylight	Skylight Fixed window N/A	NFRC	Manufactured	8	0.42	0.26	0.6	N

[1] *Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A - Altered, E - Existing*

G8. OVERHANG DETAILS

01	02	03	04	05	06	07
Fenestration Tag/ ID	Azimuth	Depth (ft)	Height from Top of Sill to Overhang (ft)	Right Extent (ft)	Left Extent (ft)	Flap Height
Window11	270	7.5	9.1	10	10	N/A
Window36	270	7.5	9.1	10	10	N/A
Window48	270	7.5	9.1	10	10	N/A

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
HP 1	Package SZ VAV Heat Pump Air System	1	67.8	26.94	COP	3.6	72	EER	11	Fixed DB	N
HP 2	Single Zone Heat Pump (SZHP) Air System	1	23.85	12.96	COP HSPF2	3.35 7.2	21.82	EER2 SEER2	11.05 15.2	No Economizer	N
HP 3	Single Zone Heat Pump (SZHP) Air System	1	30.04	18.41	COP HSPF2	3.2 6.7	30.42	EER2 SEER2	11.05 13.4	No Economizer	N
HP 4	Single Zone Heat Pump (SZHP) Air System	1	30.04	18.41	COP HSPF2	3.2 6.7	30.42	EER2 SEER2	11.05 13.4	No Economizer	N

[1] *Status: N - New, A - Altered, E - Existing*

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
			Supply Fan				Return / Relief Fan					
Name or Item Tag	Qty	Design OA CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status[1]
HP 1	1	447.75	2,400	1.2	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
HP 2	1	201	800	0.39	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HP 3	1	298	1,000	0.45	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HP 4	1	162	1,000	0.45	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
HP 1	Package SZ VAV Heat Pump Air System	N/A	Fixed DB
Water Heater1 - SHW	Service Hot Water	N/A	Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
1-Offices	Office - Office space	14.93	447.75	0	2985	N/A
2-Break Room	Office - Breakrooms	13.4	201	0	402	N/A
3-Conference	General - Conference/meeting	19.87	298	0	596	N/A
4-Store	Retail - Sales	5.4	162	0	648	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
1-Offices-Trm	Variable Air Volume No Reheat Box	1	N/A	N/A	2,400	1,600	0.67	N/A	N/A	N/A	☐
2-Break Room-Trm	Uncontrolled	1	N/A	N/A	800	N/A	0	N/A	N/A	N/A	☐
3-Conference-Trm	Uncontrolled	1	N/A	N/A	1,000	N/A	0	N/A	N/A	N/A	☐

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
4-Store-Trm	Uncontrolled	1	N/A	N/A	1,000	N/A	0	N/A	N/A	N/A	☐

I1. WATER HEATER EQUIPMENT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-value Int/Ext	Standby Loss Fraction	1st Hr. Rating or Flow Rate (gal)	Heat Pump Type	Tank Location or Ambient Condition
Bradford White EF-60T-125Z	Natural Gas	Storage	1	60	125	kBtu/Hr	0.96	TE	N/A	0.01	N/A	N/A	N/A

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

Documentation Author's Declaration Statement

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mark J Baskin P.E.	Documentation Author Signature: Mark Baskin, P.E. 2024.02.01 18:58:35-08'00'
Company: Baskin Mechanical Engineers	Signature Date: 02-01-24
Address: 175 Fulton St.	CEA/HERS Certification Identification (if applicable): M26578
City/State/Zip: Fresno, CA 93721	Phone: 559-237-0376

Responsible Person's Declaration statement

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name:	Responsible Designer Signature: Mark Baskin, P.E. 2024.02.01 18:58:55-08'00'
Company:	
Address:	Date Signed: 02-01-24
City/State/Zip: ,	License #: M26578
Phone:	Title: P.E. Scope: Env. & Mech.

Skarphol/Frank Associates
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These drawings, related specifications, ideas, designs and arrangements represented thereby are and shall remain the property of the Architect and no part thereof shall be copied, disclosed to others used in connection with any work or project other than the specific project which they have been prepared and developed without the written consent of the Architect. Visual contact with these drawings or specifications shall constitute conclusive acceptance of these restrictions.

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 23110
Plt: 09-10-25

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26578 Exp. 6-30-25 MECHANICAL STATE OF CALIFORNIA

KERN COUNTY APPROVED VALID UNTIL BUILDING INSPECTION MAKE NO CHANGES WITHOUT APPROVAL
PLANS ON JOB KEEP APPROVED
RUIZJORGE 2/2/2024 10:23:27 PM K2024088865
10/6/2025 Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

NO.	DESCRIPTION
1	BLDG CHECK
2	BLDG CHECK

DSN	M801
DR	
CHK	

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name: Kern County Special Waste	Report Page:	(Page 1 of 7)
Project Address: SEC Downing & Wear Streets	Date Prepared:	11/14/2025

A. GENERAL INFORMATION

01	Project Location (city)	Bakersfield	04	Building Size (ft²)	17985
02	Occupancy Type	Nonresidential	05		10,000 - 49,999 ft²
03	Project Type	Newly constructed	06		Unitary or packaged equipment each serving one zone
			07	Climate Zone	13

B. PROJECT SCOPE

Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per 120.8. Table B is not editable by the user.

Commissioning Requirements per 120.8			
01	Table F: Design Review Kickoff	120.8(d)1 and 120.8(d)2	The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design.
02	Table G: Owner's Project Requirements (OPR)	120.8(b)	The owner's project requirements establish the owner's goals, requirements and expectations for everything related to energy consumption and operation. This should be completed during schematic design.
03	Table H: Basis of Design (BOD)	120.8(c)	The basis of design documents the design elements such as calculations and product selections that meet the owner's project requirements and applicable regulatory requirements. This should be completed during schematic design.
04	Table I: Design Review	120.8(d) and 120.8(e)	The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning process. For projects with >= 10,000 ft² of nonresidential conditioned floor area, the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design.
05	Table J: Commissioning Plan	120.8(f)	The commissioning plan is developed by the commissioning provider with input from the designer and defines the scope of commissioning the project. This should be drafted during design and completed during early construction.
06	Table K: Functional Performance Testing	120.8(g)	Functional performance testing is conducted on building systems to demonstrate correct installation and operation.
07	Table L: Documentation and Training	120.8(h)	Documentation of the operational aspects of the building shall be completed within the Systems Manual and delivered to the building owner or representative and facilities operator.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name: Kern County Special Waste	Report Page:	(Page 2 of 7)
	Date Prepared:	11/14/2025

B. PROJECT SCOPE

08	Table M: Commissioning Report	120.8(i)	A complete report of commissioning process activities undertaken through the design, construction and reporting recommendations for post-construction phases of the building project shall be completed and provided to the owner or representative.

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per 120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

01	02	03	04	05	06	07	08	09
Design Kickoff Review	Owner's Project Requirements	Basis of Design	Design Review	Commissioning Plan	Functional Performance Testing	Documentation and Training	Commissioning Report	
Table F	Table G	Table H	Table I	Table J	Table K	Table L	Table M	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	COMPLIES
10	Greg Frank							COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name: Kern County Special Waste	Report Page:	(Page 3 of 7)
	Date Prepared:	11/14/2025

F. DESIGN REVIEW KICKOFF MEETING

This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)1 and demonstrates compliance with design review kickoff requirements per 120.8(d)2. This meeting should occur during the Schematic Design phase of the project.

Design Review Kickoff Meeting Details

01	Date of Design Review Kickoff Meeting	2023-07-03		
02	Meeting Attendees: (one person may play multiple roles)			
☒	Owner/Facility Manager:	County of Kern	☒ Design Reviewer(s)	Greg Frank
☒	Project Manager:	Joe Clark	☒ Design Architect/ Engineer(s):	Skarphol Frank Architects
☒	Contractor:	TBD	☒ Certified Acceptance Test Tech(s):	TBD
☒	Commissioning Provider:	Baskin Mechanical Engineers	☒ Energy/ T24 Part 6 Consultant:	Baskin Mechanical Engineers

Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)1

The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.

		Do the Design Reviewer(s) meet these qualifications?	
		Yes	No
03	In addition, for buildings with >= 10,000 ft² but < 50,000², the design reviewer(s) shall be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect, or contractor	●	○
04	The design reviewer(s) for this project will be:	Greg Frank	

Preliminary Construction Schedule

		Start Date	Completion Date
05	Schematic Design	2023-07-03	2023-09-29
06	Design Development	2023-10-02	2023-11-30
07	Construction Documents	2023-12-01	2024-03-29
08	Construction	0001-01-01	0001-01-01
09	Building Turnover	0001-01-01	0001-01-01

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name: Kern County Special Waste	Report Page:	(Page 4 of 7)
	Date Prepared:	11/14/2025

G. OWNER'S PROJECT REQUIREMENTS (OPR)

This table is only completed if an OPR document is not attached to permit application to demonstrate compliance with 120.8(b). If a specific field is not applicable to the project scope, "NA" is indicated in the table. Per 120.8(b), the OPR is to be completed before design begins. This may be done at the Design Review Kickoff Meeting (see Table F)

		YES	NO
01	Attaching Completed Owner's Project Requirements Document?	●	○
02	Owner's Project Requirements Document Authors and Roles	Greg Frank	

H. BASIS OF DESIGN (BOD)

This table is only completed if a BOD document is not attached to the permit application to demonstrate compliance with 120.8(c). If a specific field is not applicable to the project scope, "NA" is indicated in the table. Per 120.8(c), the BOD should be completed and updated during the design phase.

		YES	NO
01	Attaching Completed Basis of Design Document?	●	○
02	Basis of Design Document Authors and Roles	Mark Baskin	

I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST

This table is only completed if a design review document is not attached to permit application to demonstrate compliance with 120.8(b) and 120.8(e). For buildings with >= 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For buildings with < 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table F. during the Design Review Kickoff.

		YES	NO
01	Attaching Completed Design Review Documentation?	●	○

J. COMMISSIONING PLAN

This table is only completed if a Commissioning Plan document is not attached to permit application to demonstrate compliance with 120.8(f). Per 120.8(f), the Commissioning Plan is to be started during the design phase and a completed draft must be submitted with permit application

		YES	NO
01	Attaching Completed Commissioning Plan?	●	○
02	Commissioning Plan Authors and Roles	Mike Thomas	

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name: Kern County Special Waste	Report Page:	(Page 5 of 7)
	Date Prepared:	11/14/2025

K. FUNCTIONAL PERFORMANCE TESTING

The table below is completed to demonstrate compliance with functional performance testing requirements per 120.8(g).

By checking this box, the responsible party[1] certifies that functional performance testing will be executed to demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the acceptance test requirements in 120.5, 130.4 and 140.9. The functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.	01 ☒

The following acceptance tests have been identified as applicable to the project scope:[2]

02	03	04	05
System/ Equipment to be Tested	Brief description of functional performance test	Applicable Reference Appendix	Certified Acceptance Test Technician Required?
Fenestration	Confirm NFRC rating	NA7.4.1	No
HP-1	Staged air volume ventilation test	NA7.5.1.1	No
HP-2, 3, 4	Constant air volume ventilation test	NA7.5.1.2	No
HP-1, 2, 3, 4	Confirm pre-occupancy ventilation purge	NA7.5.1.1	No
HP-1	Confirm economizer function, dry bulb setting.	NA7.5.4.1	No
HP-1, 2, 3, 4, ODU-1	Confirm heating and cooling functions.	NA7.5.2	No
HP-1	Staged Air Volume test	NA7.5.6.1	No
HP-1	Economizer FDD	NA7.5.11	No
Lighting	Occupant sensing lighting controls	NA6.2.1	Yes
Lighting	Automatic Timeswitch lighting controls	NA7.6.2.6	Yes
Lighting	Utility Demand Response function	NA6.3	Yes

The acceptance tests required by Title 24, Part 6 outline the minimum functional performance testing scope to be conducted for compliance. However, the commissioning scope may include additional functional performance tests on systems or equipment not having acceptance tests required by Title 24 Part 6.

The following additional functional performance tests have been requested by the owner or owner's representative:

06	07

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name: Kern County Special Waste	Report Page:	(Page 6 of 7)
	Date Prepared:	11/14/2025

K. FUNCTIONAL PERFORMANCE TESTING

System/ Equipment to be Tested	Brief description of functional performance test

[1]FOOTNOTE: See the signature block on the last page of this compliance document for the responsible party.
[2]Required acceptance tests can be determined by reviewing the "Certificates of Acceptance" table on each Certificate of Compliance submitted for permit application.

L. DOCUMENTATION AND TRAINING

The table below is completed to demonstrate compliance with documentation and training requirements per 120.8(h)

By checking this box, the responsible party[1] certifies that a systems manual will be provided to the building owner or representative per 120.8(h)1.	01 ☒
By checking this box, the responsible party[1] certifies that a training of the appropriate maintenance staff for each equipment and system will be completed and documented in the commissioning report per 120.8(h)2. Training requirements should be included in the contract document in the specifications.	02 ☒

[1]FOOTNOTE: See the signature block on the last page of this compliance document for the responsible party.

M. COMMISSIONING REPORT

The table below is completed to demonstrate compliance with commissioning report requirements per 120.8(i)

By checking this box, the responsible party[1] certifies that a complete report of commissioning process' activities undertaken through the design, construction and reporting recommendations for post-construction phases of the building project shall be completed and provided to the owner or owner's representative.	01 ☒

[1] FOOTNOTES: See the signature block on the last page of this compliance document for the responsible party.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no forms required for this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name: Kern County Special Waste	Report Page:	(Page 7 of 7)
Project Address: SEC Downing & Wear Streets	Date Prepared:	11/14/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mark J. Baskin, P.E.	Documentation Author Signature: Mark Baskin, P.E.
Company: Baskin Mechanical Engineers	Signature Date: 2025-11-14
Address: 175 Fulton	CEA/ HERS Certification Identification (if applicable): M26578
City/State/Zip: Fresno CA 93721	Phone: (559) 237-0376

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Greg Frank	Responsible Designer Signature:
Company: Skarphol Frank Associates	Date Signed: 2025-11-14
Address: 925 17th Street	License: C 31980
City/State/Zip: Bakersfield CA 93301	Phone: (661) 334-2741

Skarphol/Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
(661) 334-2741
skarpholfrank.com

These drawings, related specifications, ideas, designs and arrangements represented thereby are and shall remain the property of the Architect and no part thereof shall be copied, disclosed to others used in connection with any work or project other than the specific project which they have been prepared and developed without the written consent of the Architect. Visual contact with these drawings or specifications shall constitute conclusive acceptance of these restrictions.

BME
BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 23110
Plt: 09-10-25

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES BASKIN
No. M26578
Exp. 06-30-26
MECHANICAL
STATE OF CALIFORNIA

KERN COUNTY
APPROVED
BUILDING INSPECTION
RUIZJORGE K202408865
Dennis McNamara
1/13/2026 8:00:00 AM
REVIEWED FOR CODE COMPLIANCE
CHANGES WITHOUT APPROVAL

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

NUMBER	DESCRIPTION
1	BACK CHECK
2	BACK CHECK

JOB	
DEPT	M802
PLT	

(N) PANEL SCHEDULE "A"

SERVICE: 120/208V 3Φ 4W | MAIN BKR.: MLO | BUS: 100A | LOC.: SEE PLAN | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LTG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	LTG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
EXT REC	360			2			1	20	1	2	20	1			500			GEN REC
"		360		2			1	20	3	4	20	1	1			500		JANITOR REC
"			360	2			1	20	5	6	20	1	2				800	IDF
"	760			2			1	20	7	8	20	1	2		800			"
"		540		3			1	20	9	10	20	1	3			540		CONF ROOM REC
PATIO REC			360	2			1	20	11	12	20	1	4				720	"
"	540			3			1	20	13	14	20	1	3		540			"
STOP N SHOP		540		3			1	20	15	16	20	1	2			360		R/R REC
"			360	2			1	20	17	18	20	1	1				500	BREAK RM COUNTER
OFFICE REC	720			4			1	20	19	20	20	1	1		500			"
OPEN OFFICE REC		360		2			1	20	21	22	20	1	1			850		REFRIG
"			500	1			1	20	23	24	20	1	1				850	"
"	360			2			1	20	25	26	20	1	1		500			BREAK RM COUNTER
"		360		2			1	20	27	28	20	1	2			360		BREAK RM REC
"			360	2			1	20	29	30	20	1		2			200	WH & CP
"	360			2			1	20	31	32	20	1						SPARE
GEN WAREHOUSE REC		540		3			1	20	33	34	20	1						"
SPARE							1	20	35	36	20	1	1				800	SHOW WINDOW REC
"							1	20	37	38	20	1	2			360		BATTERY AREA REC
PF-1	1490					1	1	20	39	40	20	1	2				360	"
PF-2		1746				1	1	20	41	42	20	1		1				FUME HOOD

TOTAL WATTS= 19,410 | ΦA=5540 | ΦB=6314 | ΦC= 7556

AMPS= 54A | MINIMUM BKR | A.I.C. RATING= 10,000 AMPS SYM

(N) PANEL SCHEDULE "L"

SERVICE: 120/208V 3Φ 4W | MAIN BKR.: MLO | BUS: 100A | LOC.: SEE PLAN

LUTRON # XPS24-1204ML-20 | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LTG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	LTG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
R/R LIGHTING	588				42		1	20	1	2	20	1	26		1040			EXT LIGHTING
SHOP LIGHTING		704			48		1	20	3	4	20	1	10			880		CARPORT LIGHTING
COND & OFFICE LTG			720		18		1	20	5	6	20	1	2				1368	WAREHOUSE LTG
OFFICE LTG	840				21		1	20	7	8	20	1	2		1368			"
PARKING LOT LTG		1240			9		1	20	9	10	20	1	2			1824		"
"			760		4		1	20	11	12	20	1	2				1824	"
SPARE							1	20	13	14	20	1	2		1824			"
"							1	20	15	16	20	1	15			1320		CARPORT LIGHTING
"							1	20	17	18	20	1	2				1368	WAREHOUSE LTG
"							1	20	19	20	20	1	4		1450			"
"							1	20	21	22	20	1	2			1368		"
"							1	20	23	24	20	1						SPARE

TOTAL WATTS= 20,476 | ΦA=7110 | ΦB=7336 | ΦC= 6030

AMPS= 57A X 1.25 = 71A | MINIMUM BKR | A.I.C. RATING= 10,000 AMPS SYM

(N) PANEL SCHEDULE "G"

SERVICE: 120/208V 3Φ 4W | MAIN BKR.: 200A-3P | BUS: 225A | LOC.: GARAGE | MTG.: SURFACE

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LTG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	LTG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
EXT REC	540			11					1	2	20	1	2		360			EXT REC
INT. REC		1006		12					3	4	20	1	2			360		"
SPARE									5	6	20	1	2				360	"
"									7	8	20	1	2		360			NORTH WALL REC
EV CHARGER		3600					1	2	40 9	10	20	1	2			360		SOUTH WALL REC
"			3600					X	X 11	12	20	1	2				360	"
"	3600						1	2	40 13	14	20	1						SPARE
"		3600						X	X 15	16	20	1						"
EV CHARGER			3600				1	2	40 17	18	20	1		1			1200	SIGN
"	3600							X	X 19	20	20	1		1	1200			"
"		3600					1	2	40 21	22	20	1		1		1200		"
"			3600					X	X 23	24	20	1		1			1200	"
FUTURE EV CHGR								2	40 25	26	20	1						SPARE
"								X	X 27	28	20	1						"
"								2	40 29	30	20	1						"
"								X	X 31	32	20	1						"
"								2	40 33	34	20	1						"
"								X	X 35	36	20	1						"
SPACE									37	38	20	1						"
"									39	40	20	1						"
"									41	42	20	1						"

TOTAL WATTS= 37,305 | ΦA= 9660 | ΦB= 13725 | ΦC= 13920

AMPS= 103A X 1.25 = 130A | MINIMUM BKR | A.I.C. RATING= 10,000 AMPS SYM

ACCESSIBILITY NOTES

Installation of switches, outlets and controls to reflect the accessibility requirements of the 2022 accessibility codes

1. CBC 11B-308.1.1 Electrical controls and switches intended to be used by the occupant of a room or area shall be located within the allowable reach ranges. Low reach shall be measured from the bottom of the outlet box and high reach is measured to the top of the outlet box.

2. CBC 11B-308.1.2 Electrical receptacle outlets on branch circuits of 30 amperes or less and communication system receptacles shall be located in the allowable reach range. Low reach shall be measured from the bottom of the outlet box and high reach is measured to the top of the outlet box.

3. CBC 11B-308.2.1 High forward reach that is unobstructed shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above finish floor or ground.

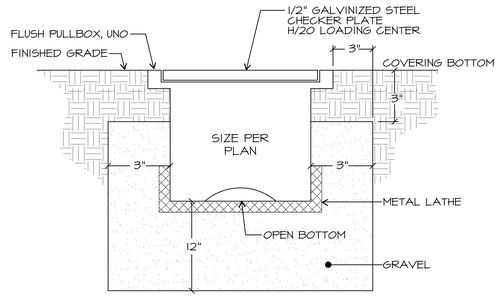
4. CBC 11B-308.2.2 Forward Reach Obstructed - Electrical receptacle outlets shall be located no more than 44 inches measured from the top of the receptacle outlet box when the obstruction is over 20" and does not exceed 25". When the depth is less than 20" height can be increased to 48". (desk counters)

5. CBC 11B-308.3 Side Reach Obstructed - Electrical receptacle outlets shall be located no more than 46 inches measured from the top of the receptacle outlet box when the obstruction is over 10" and does not exceed 24". When the depth is less than 10" height can be increased to 48". Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches maximum and the depth of the obstruction shall be 24 inches maximum.

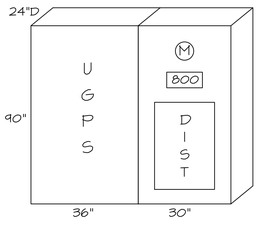
6. Overhang light fixtures or wall fixtures projecting more than 4" from the wall surface shall be a minimum of 80" above the walking surface.

ELECTRICAL LOAD SUMMARY

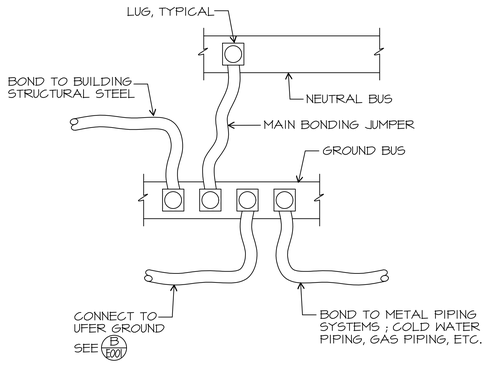
PANEL"A":	54A
PANEL"L":	71A
PANEL"G":	130A
PANEL"M":	171A
PANEL"W":	181A
TOTAL :	607A



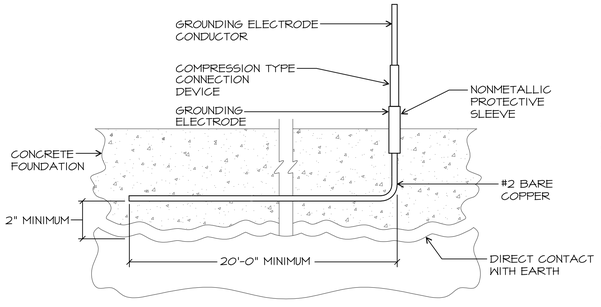
FLUSH PULLBOX DETAIL (E)
SCALE: NONE



SWITCHBOARD ELEVATION (D)
SCALE: NONE

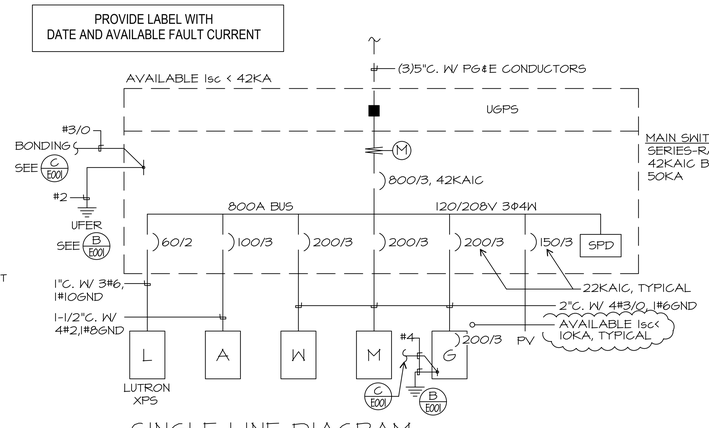


BONDING DIAGRAM (C)
SCALE: NONE



THE GROUNDING SYSTEM SHALL CONSIST OF A "UFER" TYPE 20' LONG OF #2 BARE COPPER CONDUCTOR EMBEDDED ALONG THE BOTTOM OF A CONCRETE FOOTING OR GRADE BEAM THAT IS IN DIRECT CONTACT WITH THE EARTH.

UFER GROUND DETAIL (B)
SCALE: NONE



SINGLE LINE DIAGRAM (A)
SCALE: NONE

GENERAL NOTES

1. VISIT JOB SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID.
2. THE ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2022 CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES. WHERE PLANS CALL FOR A HIGHER STANDARD THAN APPLICABLE CODES, THE PLANS SHALL GOVERN.
3. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
4. ALL ELECTRICAL EQUIPMENT, APPLIANCES AND LIGHTING FIXTURES SHALL BE LISTED BY A RECOGNIZED TEST LAB AND BEAR THAT LABEL OF APPROVAL.
5. CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIAL AND EQUIPMENT FOR THIS WORK UNLESS OTHERWISE NOTED.
6. FURNISH DISCONNECT SWITCHES AT REMOTE MOTORS.
7. ALL SPACES AS INDICATED ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARE AND BUSSING FOR FUTURE BREAKER OR SWITCH.
8. CHECK ARCHITECTURAL PLANS FOR DOOR SWINGS BEFORE INSTALLING SWITCH OUTLETS.
9. GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS SPECIFIED OR SHOWN ON DRAWINGS.
10. ALL CONDUIT RUNS SHALL CONTAIN A CODE SIZED GREEN GROUND WIRE.
11. THESE PLANS ARE NOT COMPLETE UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION.
12. ALL CONDUCTORS SHALL BE IN CONDUIT.
13. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.
14. COORDINATE WITH SERVING ELECTRICAL UTILITY COMPANY AND MAKE PROVISIONS FOR ELECTRICAL SERVICE ACCORDINGLY. INCLUDE ALL SERVICE COSTS AND UTILITY COMPANY CHARGES IN BID.
15. COORDINATE WITH SERVING TELEPHONE UTILITY COMPANY AND MAKE PROVISIONS FOR TELEPHONE SERVICE ACCORDINGLY. INCLUDE ALL SERVICE COSTS AND ANY UTILITY COMPANY CHARGES IN BID.
16. COORDINATE WITH SERVING CABLE TELEVISION COMPANY AND MAKE PROVISIONS FOR CABLE TELEVISION ACCORDINGLY. INCLUDE ALL SERVICE COSTS AND ANY UTILITY COMPANY CHARGES IN BID.
17. ALL PERMITS SHALL BE OBTAINED AND PAID FOR BY CONTRACTOR.

SYMBOLS

	CONDUIT EXISTING
	CONDUIT CONCEALED IN WALL OR CEILING
	CONDUIT CONCEALED UNDER FLOOR OR BELOW GRADE
	CONDUIT STUBBED OUT AND CAPPED
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	MATCH MARKS INDICATE NO. OF #12 WIRES IN CODE SIZED CONDUIT (3) MAX. IN 1/2" C., (5) MAX. IN 3/4" C., (8) MAX. IN 1"C., NO MARKS = 2#12
A-3	HOME RUN: LETTER INDICATES PANEL, NUMBER(S) INDICATES CIRCUIT(S).
	SANICUT
	GROUND CONNECTION
	DISTRIBUTION SWITCHBOARD OR PANEL
	PANEL, BRANCH CIRCUIT TYPE, SURFACE AND FLUSH
	SIGNAL TERMINAL CABINET, SURFACE & FLUSH
	FLUORESCENT FIXTURE
2 a	OUTLET DATA: BAR INDICATES WALL MOUNT, LETTER INDICATES SWITCH CONTROL, NO. INDICATES CIRCUIT.
	SURFACE FIXTURE ON FLUSH OUTLET.
	RECESSED FIXTURE WITH JUNCTION BOX FOR THRU WIRING
	EXIT LIGHT WITH ARROWS AS SHOWN ON PLANS, WALL AND CEILING MOUNT.
	LOW LEVEL EXIT SIGN, +6" AFF, +4" FROM DOOR JAMB
A 100	LIGHT FIXTURE DESIGNATION, LETTER INDICATES TYPE, NO. INDICATES WATTAGE. SEE FIXTURE SCHEDULE.
FC 1	MECHANICAL EQUIPMENT DESIGNATION. SEE MECHANICAL DRAWINGS.
	SPECIAL RECEPTACLE – SEE PLAN
M	METER
	FLUSH FLOOR RECEPTACLE
	RECEPTACLE, DUPLEX, 15A, 125V, NEMA 5-15R +15" TO BOTTOM
	DUPLEX RECEPTACLE MTD. ABOVE BACKSPLASH
	DUPLEX RECEPTACLE W/LOWER HALF SWITCHED
GFI	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	CEILING RECEPTACLE
	RECEPTACLE, DUPLEX, 20A, 125V, NEMA 5-20R +18" U.N.O.
J	JUNCTION BOX 4" SQUARE, 1-1/2" DEEP U.N.O.
T	THERMOSTAT F.B.O. +48"
2	MOTOR, NO. INDICATES HORSEPOWER
	CLOCK OUTLET +7'-6" U.N.O.
	DISCONNECT SWITCH, NON-FUSED
F	DISCONNECT SWITCH FUSED HORSEPOWER RATED OR SIZED AS NOTED
	COMBINATION MAGNETIC STARTER WITH DISCONNECT SWITCH AND FUSES
	MAGNETIC MOTOR STARTER W/OVERLOADS IN EACH PHASE
D	DIMMER W/INTEGRAL "ON-OFF" SW.
	PUSHBUTTON
PC	PHOTOCELL
SD	SMOKE DETECTOR
	TELEPHONE/COMPUTER/DATA OUTLET, TWO GANG BOX W/1 GANG COVERPLATE & GROMMETED OPENING +18" U.N.O.
TV	CABLE TV OUTLET +18" U.N.O.
M	MOTION SENSOR
$	EXISTING SWITCH
S	SINGLE POLE SWITCH
^{2}	DOUBLE POLE SWITCH
^{3}	THREE WAY SWITCH (QUIET TOGGLE TYPE RATED AT 20A, 120/277V A.C. +42" U.N.O.)
^{P}	SWITCH W/PILOT LT.
^{M}	MANUAL MOTOR STARTER
FACP	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT CIRCUIT INTERRUPTING
LST	LABOR SAVING TANDEM
MLO	MAIN LUGS ONLY
w/	WITH
C.O.	CONDUIT ONLY
W.P.	WEATHERPROOF
F.B.O.	FURNISHED BY OTHERS, INSTALL & CONNECT
U.N.O.	UNLESS NOTED OTHERWISE
N.E.C.	NATIONAL ELECTRICAL CODE
N.I.C.	NOT IN CONTRACT
(E)	EXISTING
(N)	NEW
(R)	REMOVE
(RL)	RELOCATE
S/M	SURFACE MOUNT
U/G	UNDERGROUND
CWP	COLD WATER PIPE
AFF	ABOVE FINISHED FLOOR
HACR	HEATING AND AIR CONDITIONING RATED CIRCUIT BREAKER
N.L.	NIGHT LIGHT

NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THIS PROJECT.

Skarphol / Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
(661) 394-2741
skarpholfrank.com

These drawings, related specifications, ideas, designs and arrangements represented thereby are and shall remain the property of the Architect and no part thereof shall be copied, disclosed to others used in connection with any work or project other than the specific project which they have been prepared and developed without the written consent of the Architect. Visual contact with these drawings or specifications shall constitute conclusive acceptance of these restrictions.

KERN COUNTY APPROVED BUILDING INSPECTION
PLANS APPROVED AS NOTED ON PLANS. AMENDED CHANGES MUST BE APPROVED BY BUILDING INSPECTION BEFORE CONSTRUCTION. WORK PERFORMED WITHOUT APPROVAL MAY BE REQUIRED TO BE REMOVED.
RUIZJORGE K2024088865
1/13/2026 10:08:55 AM
Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
23754
5500 MING AVENUE, SUITE 251
BAKERSFIELD, CA 93309
(661) 831-7851
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net

REGISTERED PROFESSIONAL ENGINEER JOHN MALONEY EXP. 12/31/2026 ELECTRICAL STATE OF CALIFORNIA

JOB	
DP	E001
PM	

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LED FIXTURE SCHEDULE

TYPE	MANUFACTURER AND CATALOG NUMBER	LED MODULE TYPE	LED MODULE COLOR TEMP	LED MODULE WATTS	DRIVER	OPTIC/LENS	REMARKS
A 25	FOCAL POINT FEQ2 24 AC 40L 35K 1C UNV L11 GX WH		3500K	38	0-10V	DIFFUSE	2X4
B 88	LITHONIA CPHB12LM MVOLT 40K TLS WH		4000K	88	0-10V	GLARE CONTROL	COMPACT BAY LIGHT W/ MOTION SENSOR
C 35	LITHONIA FMLWL848 40K		4000K	40	0-10V	DIFFUSE	WRAP AROUND
D 14	LITHONIA LDN4-35/15-LO4ARLDTRW MVOLTGZ10		3500K	14	0-10V	DIFFUSE	4" DOWNLIGHT
E 3	ISOLITE BUG6WH		GREEN	3	NICAD BATTERY	PRISMATIC	EXIT SIGN WITH EM LIGHT
EM 6	ISOLITE BUG6WH		4000K	6	NICAD BATTERY	PRISMATIC	EM LIGHT
F1 550	A-LIGHT G3-36FT-LVH-40-U-HE-F-T-D-Q		4000K	36/19	0-10V	HE TECH	S/M CEILING 36FT LINEAR LIGHT
F2 832	A-LIGHT G3-48FT-LVH-40-U-HE-F-T-D-Q		4000K	48/19	0-10V	HE TECH	S/M CEILING 48FT LINEAR LIGHT
F3 76	A-LIGHT G3-4FT-LVH-40-U-HE-F-T-D-Q		4000K	4/19	0-10V	HE TECH	S/M CEILING 4FT LINEAR LIGHT
G 47	HOLOPHANE HXPLL4825LASNDM40K		4000K	47	0-10V	HE TECH	4 FT CLASS 1 DIV 1 FIXTURE
EX 17	ISOLITE OWLEM BZ MB		4000K	17	NICAD BATTERY	PRISMATIC	WET LISTED EM LIGHT

SITE LED FIXTURE SCHEDULE

TYPE	MANUFACTURER AND CATALOG NUMBER	LED MODULE TYPE	LED MODULE COLOR TEMP	LED MODULE WATTS	DRIVER	OPTIC/LENS	REMARKS
S1 248	LITHONIA (2)DSX1LEDP440K70CRIT5WMVOLTSPADDBXD		4000K	2/124	0-10V	FLAT CLEAR	DOUBLE PARKING LIT FIXTURE
	LITHONIA SSS23FT4GDM28ASDDBXD						POLE
S2 124	LITHONIA DSX1LEDP440K70CRIT3MMVOLTSPADDBXD		4000K	124	0-10V	FLAT CLEAR	TYPE 3 OPTIC PARKING LOT LIGHT
	LITHONIA SSS23FT4GDM19ASDDBXD						POLE
S3 124	LITHONIA DSX1LEDP440K70CRIT2MMVOLTSPADDBXD		4000K	124	0-10V	FLAT CLEAR	TYPE 2 OPTIC PARKING LOT LIGHT
	LITHONIA SSS23FT4GDM19ASDDBXD						POLE
X 33	LITHONIA WDGE2LEDP340K70CRIT3MDDBXD		4000K	33	0-10V	FLAT CLEAR	WEDGE FULL CUTOFF SCONCE
Y 15	LITHONIA WDGE1LEDP240K80CRIVWMVOLTDDBXD		4000K	15	0-10V	FLAT CLEAR	SMALL WEDGE FULLCUTOFF SCONCE
Z 14	LITHONIA EVO440/10ARMWDLSMVOLTZ1		4000K	14	0-10V	DIFFUSE	4" EXT. DOWNLIGHT

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KERN COUNTY APPROVED BUILDING INSPECTION
DOCUMENTS MUST BE KEPT ON JOB SITE
CHANGES MUST BE APPROVED BY BUILDING OFFICIAL
RUIZJORGE K202408865
Dennis McNamara
1/13/2025 8:08:03 AM PST

A NEW BUILDING FOR:

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
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23754
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(661) 831-7551
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	
DP	
PM	
	E002

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 1 of 9)
Project Address:	**Date Prepared:** 2024-01-08T17:08:00-05:00

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD	04 Total Conditioned Floor Area (ft²)	24,095
02	Climate Zone	13	05 Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	0
● Commercial Industrial				

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	24095	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	24095			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 2 of 9)
	Date Prepared: 2024-01-08T17:08:00-05:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05	06	07 Adjustments		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥ Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		13,141.2			=	13,141.2	≥ 13,105		=	13105	COMPLIES
Unconditioned					=		≥		=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 3 of 9)
	Date Prepared: 2024-01-08T17:08:00-05:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
A	2X4 LED	No	NA	25	Mfr. Spec	48	No	1,200	☐	☐
B	COMPACT BAY LED	No	NA	70	Mfr. Spec	8	No	560	☐	☐
C	WRAP AROUND LED	No	NA	35	Mfr. Spec	4	No	140	☐	☐
D	4" DOWNLIGHT LED	No	NA	14	Mfr. Spec	30	No	420	☐	☐
F1	S/M CEILING 36FT LINEAR LED	No	NA	550	Mfr. Spec	10	No	5,500	☐	☐
F2	S/M CEILING 48FT LINEAR LED	No	NA	832	Mfr. Spec	6	No	4,992	☐	☐
F3	S/M CEILING 4FT LINEAR LED	No	NA	76	Mfr. Spec	2	No	152	☐	☐
G	4FT CLASS 1 DIV 1 FIXTURE	No	NA	47	Mfr. Spec	3	No	141	☐	☐
					Total Designed Watts: CONDITIONED SPACES			13,105		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 4 of 9)
	Date Prepared: 2024-01-08T17:08:00-05:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		
Required >= 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
WAREWHOUSE	General Commercial Industrial Work Area High Bay	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
RESTROOM	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Skylight shaded	NA: Skylight shaded	No	☐	☐
CONFERENCE ROOM	Conference, Multipurpose and Meeting Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
BREAK ROOM	Lounge	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
I.T. CLOSET	Electrical Mechancial Telephone Room	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
CLOSET	Storage - MF common areas	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
OFFICE	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
HALLWAY	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 5 of 9)
	Date Prepared: 2024-01-08T17:08:00-05:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

CHECKOUT	Retail Merchandise Sales Wholesale Showroom	Readily Accessible	Dimmer	Occupancy Sensor	NA: Skylight shaded	NA: Skylight shaded	No	☐	☐
LAB	General Commercial Industrial Work Area Precision	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
PARKING GARAGE	Parking Garage - Parking Area & Ramps	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
						13			
						Plan Sheet Showing Daylit Zones:			

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
WAREWHOUSE	General Commercial Industrial Work Area High Bay	0.65	13,593	8,835.45	No	No
RESTROOM	Restroom	0.65	1,489	967.85	No	No
CONFERENCE ROOM	Conference, Multipurpose and Meeting Area	0.75	596	447	No	No
BREAK ROOM	Lounge	0.55	399	219.45	No	No
I.T. CLOSET	Electrical Mechancial Telephone Room	0.4	126	50.4	No	No
CLOSET	Storage - MF common areas	0.45	95	42.75	No	No
OFFICE	Office (>250 square feet)	0.6	1,339	803.4	No	No
HALLWAY	Corridor	0.4	141	56.4	No	No
CHECKOUT	Retail Merchandise Sales Wholesale Showroom	0.95	628	596.6	No	No

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 6 of 9)
	Date Prepared: 2024-01-08T17:08:00-05:00

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

LAB	General Commercial Industrial Work Area Precision	0.85	614	521.9	No	No
PARKING GARAGE	Parking Garage - Parking Area & Ramps	0.1	6,000	600	No	No
		TOTALS:	25,020	13,141.2	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 7 of 9)
	Date Prepared: 2024-01-08T17:08:00-05:00

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 8 of 9)
	Date Prepared: 2024-01-08T17:08:00-05:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	WAREWHOUSE; RESTROOM; CONFERENCE ROOM; BREAK ROOM; I.T. CLOSET; CLOSET; OFFICE; HALLWAY, CHECKOUT; LAB; PARKING GARAGE
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	WAREWHOUSE; RESTROOM; CONFERENCE ROOM; BREAK ROOM; I.T. CLOSET; CLOSET; OFFICE; HALLWAY, CHECKOUT; LAB; PARKING GARAGE

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 9 of 9)
Project Address:	**Date Prepared:** 2024-01-08T17:08:00-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: John Maloney	Documentation Author Signature:
Company: JMPE	Signature Date: 01-08-2024
Address: 621 OLIVE STREET	CEA/ HERS Certification Identification (if applicable): E015088 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)564-1216

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: JOHN MALONEY	Responsible Designer Signature:
Company: JMPE	Date Signed: 01-08-2024
Address: 621 OLIVE STREET	License: E015088 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)564-1216

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KERN COUNTY
APPROVED
BUILDING INSPECTION
RUIZJORGE K20240865
Dennis McNamara
1/13/2025 8:05:55 AM

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E130383
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FAX (661) 831-7813
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DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	
DP	
PM	E003

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTO-E**

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: KERN COUNTY SPECIAL WASTE FACILITY — **Report Page:** (Page 1 of 8)
Project Address: — **Date Prepared:** 2024-01-08T16:06:21-05:00

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD	04	Total Illuminated Hardscape Area (ft²)	152247
02	Climate Zone	13			

03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):

☐ LZ-0: Very Low - Undeveloped Parkland ☐ LZ-2: Moderate - Urban Clusters ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐ LZ-1: Low - Rural Areas ☒ LZ-3: Moderately High - Urban Areas

05 Occupancy Types within Project

• Commercial Industrial

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02	
☒	New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6
☐	Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv											Compliance Results		
01		02		03		04		05		06	07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	= **Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
3,812.19	+	---	+	---	+	---	+	---	OR	---	= 3,812.19	≥	3,536	COMPLIES

Shielding Compliance (See Table G for Details)	N/A
Controls Compliance (See Table H for Details)	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires.[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector Pass	Field Inspector Fail
S1	DOUBLE PARKING LED	☐ Linear	248	Mfr. Spec	3	New	☐	744	NA: < 6200 lumens	☐	☐
S2	TYPE 3 OPTIC PARKING LOT LED	☐ Linear	124	Mfr. Spec	9	New	☐	1,116	NA: < 6200 lumens	☐	☐
S3	TYPE 2 OPTIC PARKING LOT LED	☐ Linear	124	Mfr. Spec	1	New	☐	124	NA: < 6200 lumens	☐	☐
B	COMPACT BAY LED	☐ Linear	88	Mfr. Spec	10	New	☐	880	NA: < 6200 lumens	☐	☐
X	WEDGE CUTOFF LED	☐ Linear	33	Mfr. Spec	14	New	☐	462	NA: < 6200 lumens	☐	☐
Z	4" EXT DOWNLIGHT LED	☐ Linear	14	Mfr. Spec	15	New	☐	210	NA: < 6200 lumens	☐	☐
							Total Design Watts:	3536			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10

[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector Pass	Field Inspector Fail
PARKING LOT: "S1"	Astronomical Timer	Provided	NA: Industrial Sites Lighting	☐	☐
PARKING LOT: "S2"	Astronomical Timer	Provided	NA: Industrial Sites Lighting	☐	☐
PARKING LOT: "S3"	Astronomical Timer	Provided	NA: Industrial Sites Lighting	☐	☐
PARKING LOT: "B"	Astronomical Timer	Provided	Provided	☐	☐
PARKING LOT: "X"	Astronomical Timer	Provided	NA: Facade, etc. <=24 ft	☐	☐
PARKING LOT: "Z"	Astronomical Timer	Provided	NA: Facade, etc. <=24 ft	☐	☐

[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
		"Use it or lose it" Allowance (select all that apply) (select all that apply)			
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M	

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
PARKING LOT	152247	0.021	3197.19	1825	0.2	365	3562.19

Initial Wattage Allowance for Entire Site (Watts):	250
Instances of Initial Wattage Allowance (LZ 0 only)[1]	
Total General Hardscape Allowance (Watts):	3812.19

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	PARKING LOT: "S1"; PARKING LOT: "S2"; PARKING LOT: "S3"; PARKING LOT: "B"; PARKING LOT: "X"; PARKING LOT: "Z"

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: John Maloney	Documentation Author Signature:
Company: JMPE	Signature Date: 01-08-2024
Address: 621 OLIVE STREET	CEA/ HERS Certification Identification (if applicable): EO13563 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)564-9216

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: JOHN MALONEY	Responsible Designer Signature:
Company: JMPE	Date Signed: 01-08-2023
Address: 621 OLIVE STREET	License: EO13563 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)564-9216

Skarphol / Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
(661) 394-2741
skarpholfrank.com

These drawings, related specifications, ideas, designs and arrangements represented thereby are and shall remain the property of the Architect and no part thereof shall be copied, disclosed to others used in connection with any work or project other than the specific project which they have been prepared and developed without the written consent of the Architect. Visual contact with these drawings or specifications shall constitute conclusive acceptance of these restrictions.

KERN COUNTY
APPROVED
BUILDING INSPECTION
RUIZJORGE K202408865
Dennis McNamara
1/13/2025 3:05:05 PM

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
23754
5500 MING AVENUE, SUITE 201
BAKERSFIELD, CA 93309
(661) 835-7851
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net
REGISTERED PROFESSIONAL ENGINEER JOHN P. MALONEY No. E013563 EXP. 06/30/2025 ELECTRICAL STATE OF CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	E004
DP	
PM	

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii	
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 1 of 5)
Project Address:	**Date Prepared:** 2024-01-08T17:26:13-05:00

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD	02	Climate Zone	13
			03	Occupancy Types Within Project:	Commercial Industrial

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
E-100	New electrical service equipment and meter	50	☒	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 2 of 5)
	Date Prepared: 2024-01-08T17:26:13-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND	Yes	AND	Yes	AND	Yes		COMPLIES with Exceptional Conditions

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table B indicates the project is exempt from 130.5(a) Service Electrical Metering requirements because the utility company has provided the project a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 3 of 5)
	Date Prepared: 2024-01-08T17:26:13-05:00

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
E-100					
Lighting including exit, egress and exterior	not required			☐	☐

** NOTES: If "Other** is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Hii/ 180.2(b)4Bviic.

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
E-100	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	E001	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 4 of 5)
	Date Prepared: 2024-01-08T17:26:13-05:00

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(d)/ 160.6(d).. Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	07	
Room name or Description	Location/ Type of Controlled Receptacles[1]	Shut-Off Controls	Demand Responsive Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
						Pass	Fail
OPEN OFFICE	Within 6ft of uncontrolled receptacle	Occupancy Sensor	Included w capabilities per 110.12(e)	☒	E211 AND E212	☐	☐
CONFERENCE ROOM	Within 6ft of uncontrolled receptacle	Occupancy Sensor	Included w capabilities per 110.12(e)	☒	E212	☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements. .

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 5 of 5)
Project Address:	**Date Prepared:** 2024-01-08T17:26:13-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: John Maloney	Documentation Author Signature:
Company: JMPE	Signature Date: 01-08-2024
Address: 621 OLIVE STREET	CEA/ HERS Certification Identification (if applicable): EO13083 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)364-4216

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: JOHN MALONEY	Responsible Designer Signature:
Company: JMPE	Date Signed: 01-08-2024
Address: 621 OLIVE STREET	License: EO13083 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)364-4216

Skarphol/Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
(661) 394-2741
skarpholfrank.com

These drawings, related specifications, ideas, designs and arrangements represented thereby are and shall remain the property of the Architect and no part thereof shall be copied, disclosed to others used in connection with any work or project other than the specific project which they have been prepared and developed without the written consent of the Architect. Visual contact with these drawings or specifications shall constitute conclusive acceptance of these restrictions.

KERN COUNTY
APPROVED
BUILDING INSPECTION
RUIZJORGE K202408865
1/13/2025 8:05:25 AM
Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

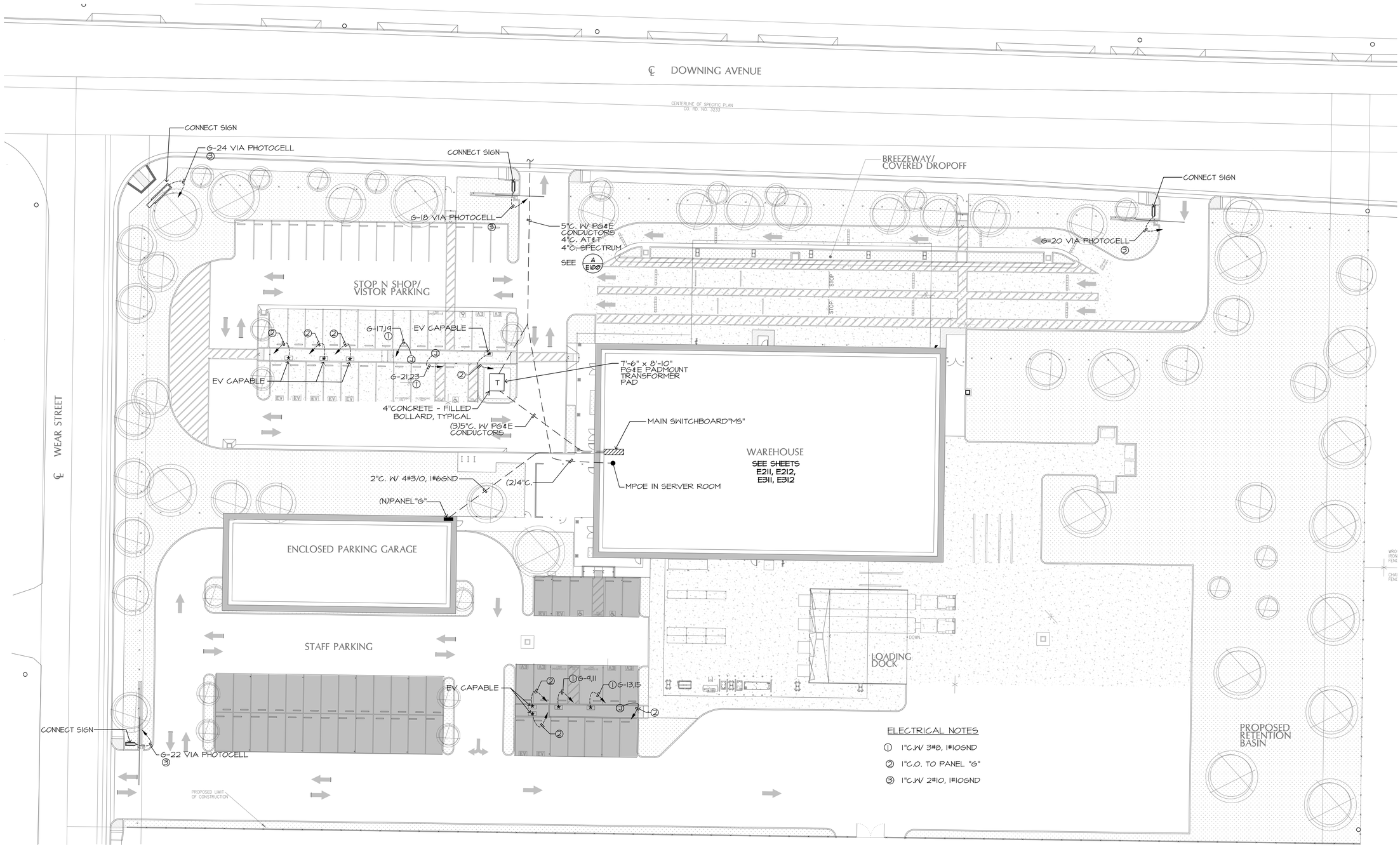
JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
2354
5500 MING AVENUE, SUITE 251
BAKERSFIELD, CA 93309
(661) 833-7551
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net

REGISTERED PROFESSIONAL ENGINEER
JOHN MALONEY
No. E013083
EXP. 06/30/2025
ELECTRICAL
STATE OF CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	
DP	E005
PM	



ELECTRICAL NOTES

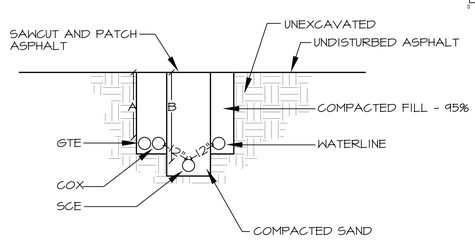
① 1"C.W/ 3#8, 1#10GND

② 1"C.O. TO PANEL "G"

③ 1"C.W/ 2#10, 1#10GND

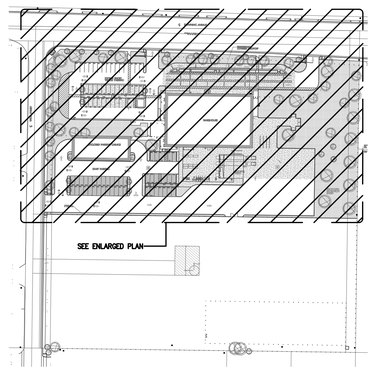
ELECTRICAL SITE PLAN

SCALE: 1"=20'-0"



DEPTH CHART	A	B
UTILITY FEEDER	24"	30"
OWNER FEEDER	18"	18"

JOINT TRENCH DETAIL Ⓐ



KEY PLAN N.S.

Skarphol/Frank
Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
(661) 394-2741
skarpholfrank.com

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KERN COUNTY
APPROVED
BUILDING INSPECTION
RUIZJORGE K202408865
Dennis McNamara
1/13/2026 8:08:53 AM

DO NOT SCALE PLANS. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. PLANS MAY NOT BE CHANGED WITHOUT APPROVAL

A NEW BUILDING FOR:

KERN COUNTY
SPECIAL WASTE
FACILITY

SEC OF DOWNING AVE
& WEAR ST
BAKERSFIELD, CALIFORNIA

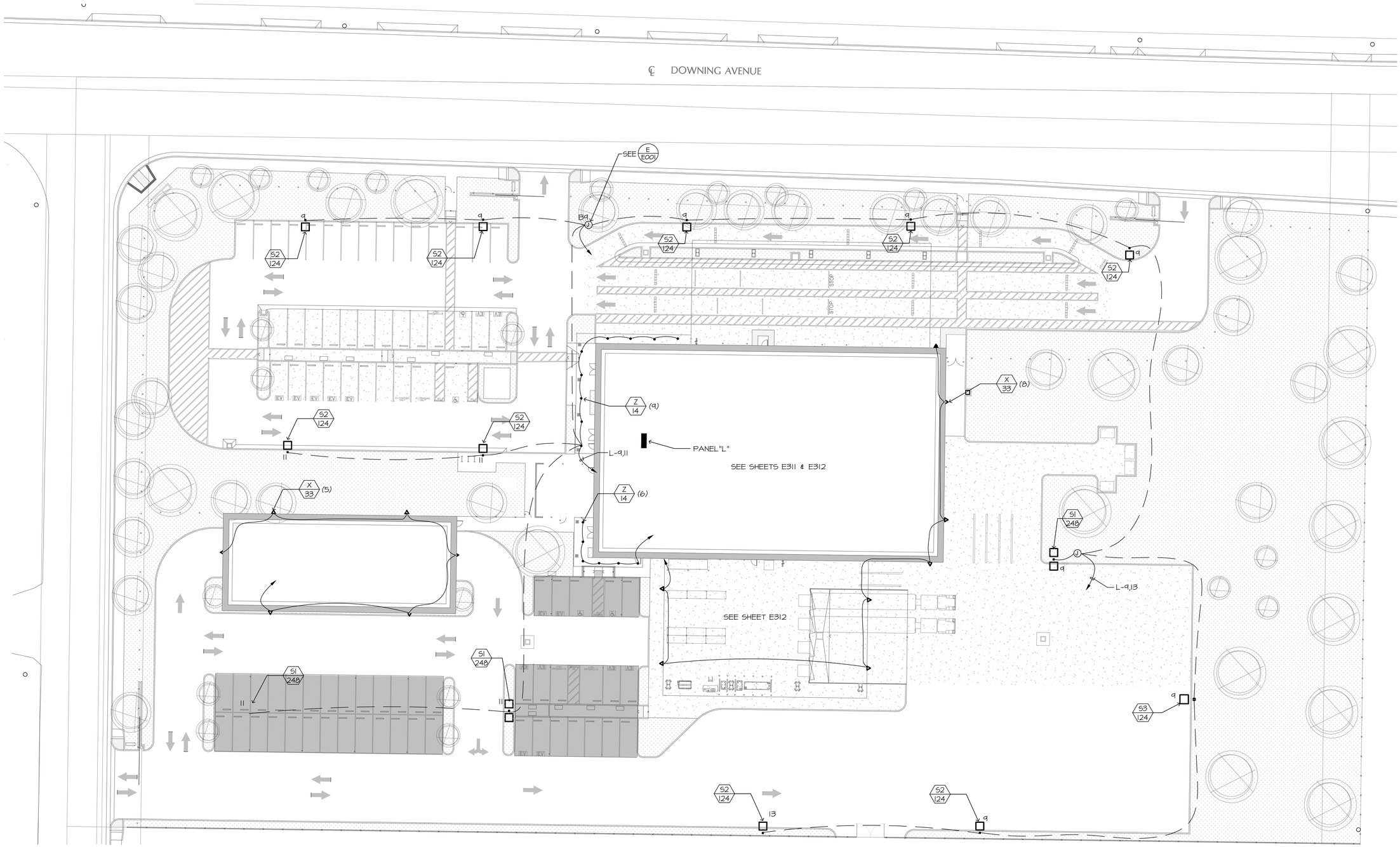
DATE	ISSUED FOR

REVISION	DESCRIPTION

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
23754
5500 MING AVENUE,
SUITE 101
BAKERSFIELD, CA 93309
(661) 831-7851
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net

REGISTERED PROFESSIONAL ENGINEER
JOHN MALONEY
No. E013540
EXP. 06/30/2027
ELECTRICAL
STATE OF CALIFORNIA

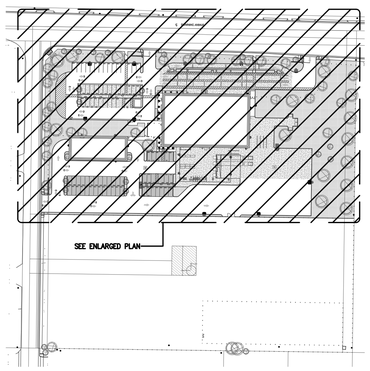
JOB	
DP	E100
PM	



N

SITE LIGHTING PLAN

SCALE: 1"=20'-0"



N

KEY PLAN

N.S.

Skarphol / Frank Associates
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KERN COUNTY
APPROVED
BUILDING INSPECTION
RUIZJORGE K202408865
Dennis McNamara
1/13/2025 8:49:55 AM PST

DO NOT SCALE PLANS ON DISK
PLANS MUST BE STAMPED APPROVED BEFORE CHANGES WITHOUT APPROVAL

A NEW BUILDING FOR:

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JMPE
ELECTRICAL ENGINEERING
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REGISTERED PROFESSIONAL ENGINEER
JAMES R. MALONEY
No. E013083
EXP. 6/30/2026
ELECTRICAL
STATE OF CALIFORNIA

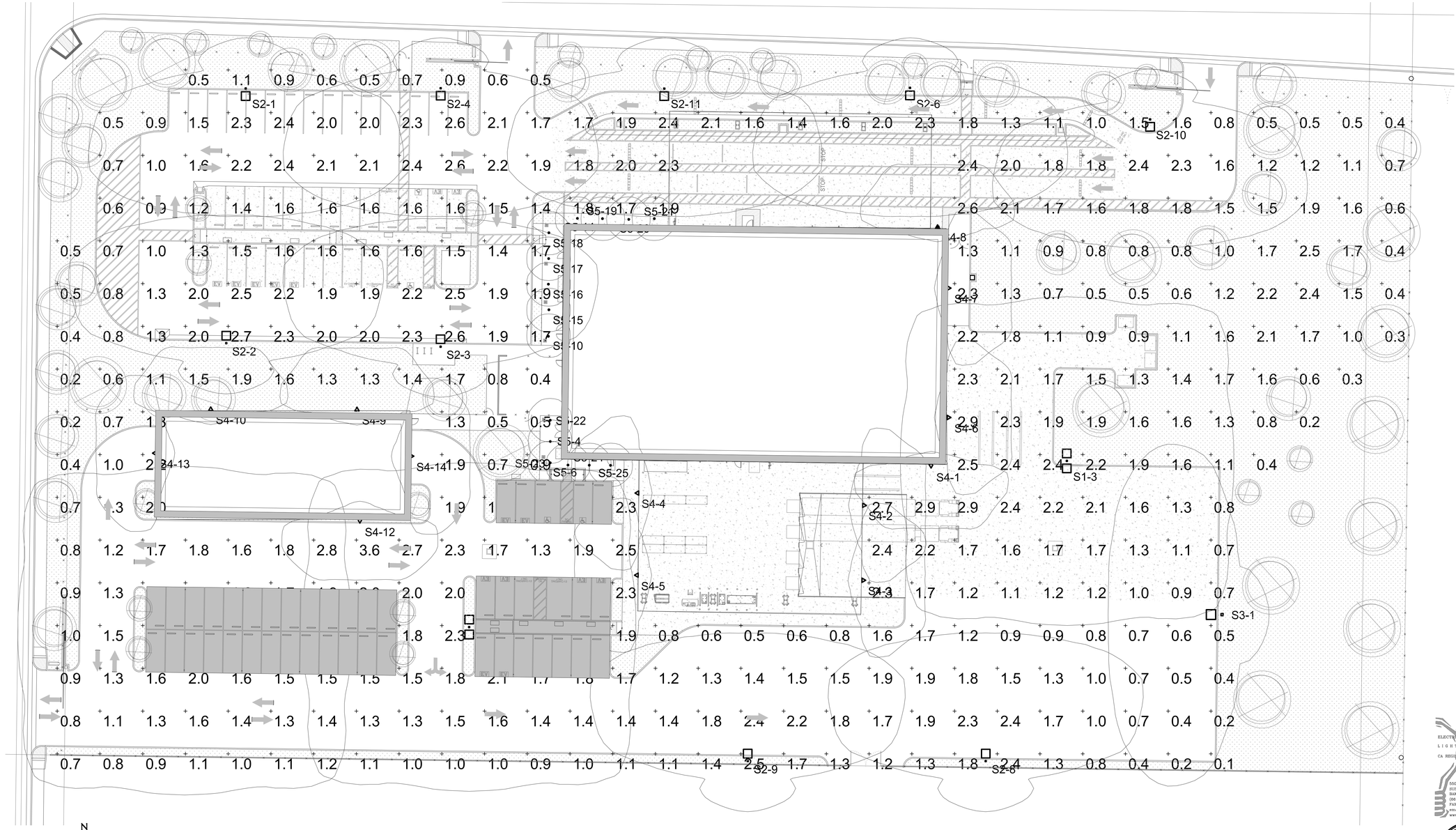
JOB	
DP	E101
PM	

LIGHTING SCHEDULE

Symbol	Label	Qty	Manufacturer	Catalog Number	Description	Number Lamps	Lamp Output	LLF	Input Power	Distribution	Notes
	S1	3	Lithonia Lighting	DSX1 LED P4 40K 70 CRI T5W MVOLT SPA DDBXD/SSS 23FT 4G DM28AS DDBXD	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 5 Wide	1	17013	0.92	247.88	TYPE VS, BUG RATING: B5 - U0 - G3	MOUNTED ON 2FT BASE
	S2	9	Lithonia Lighting	DSX1 LED P4 40K 70CRI T3M MVOLT SPA DDBXD/SSS 23FT 4G DM19AS DDBXD	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 3 Medium	1	16032	0.92	123.94	TYPE IV, MEDIUM, BUG RATING: B2 - U0 - G4	MOUNTED ON 2FT BASE
	S3	1	Lithonia Lighting	DSX1 LED P4 40K 70CRI T2M MVOLT SPA DDBXD/SSS 23FT 4G DM19AS DDBXD	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 2 Medium	1	15849	0.92	123.94	TYPE III, MEDIUM, BUG RATING: B3 - U0 - G4	MOUNTED ON 2FT BASE
	S4	13	Lithonia Lighting	WDGE2 LED P3 40K 70CRI T3M	WDGE2 LED WITH P3 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 3 MEDIUM OPTIC	1	3629	0.92	32.1375	TYPE III, MEDIUM, BUG RATING: B1 - U0 - G1	
	S5	15	GOTHAM	EVO4 40/10 AR MWD LS MVOLT EZ1	LED RECESSED 4IN ROUND DOWNLIGHT	1	1017	0.92	8.8	DIRECT, SC-0=1.08, SC-90=1.08	

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	UG
SITE LIGHTING	+	1.5 fc	3.6 fc	0.1 fc	36.0:1	15.0:1	5.9



N

SITE LIGHTING PHOTOMETRIC PLAN

SCALE: 1"=20'-0"

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KERN COUNTY APPROVED BUILDING INSPECTION
RUIZJORGE K202408865
1/13/2025 8:05:05 AM
Dennis McNamara
PLANS APPROVED AS NOTED. CHANGES MADE ON PLANS MUST BE APPROVED BY BUILDING INSPECTION BEFORE CONSTRUCTION. APPROVAL OF PLANS DOES NOT PERMIT VIOLATION OF ANY LAW. ONE SET OF APPROVED PLANS MUST BE KEPT ON JOB SITE AT ALL TIMES.

A NEW BUILDING FOR:

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

JMPE
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LIGHTING DESIGN
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REGISTERED PROFESSIONAL ENGINEER
BRIAN MALONEY
No. E013083
EXP. 12/31/2026
ELECTRICAL
STATE OF CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	
DP	E102
PM	

C:\Users\robar\OneDrive - JMPE Electrical Engineering\DWG\2023 DWGS\23759\23759 E211.dwg, 10/29/2025 12:11:57 PM, DWG To PDF.pc3

ELECTRICAL NOTES

1. ALL RECEPTACLES SHALL BE, WHITE, NEMA5 - 20R, WITH STAINLESS STEEL PLATES.
2. LABEL ALL RECEPTACLES WITH PANEL AND CIRCUIT NUMBER.

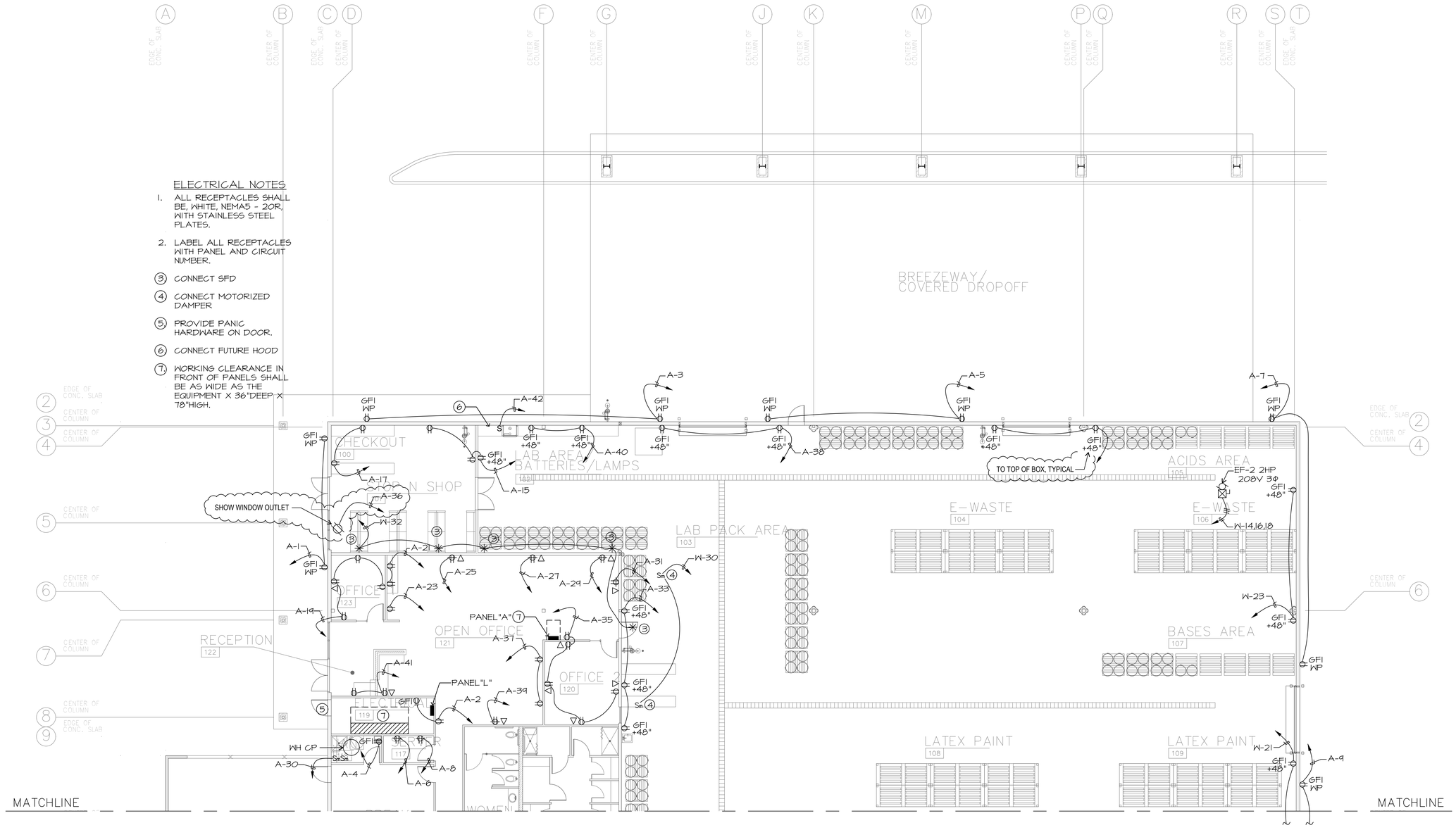
(3) CONNECT SFD

(4) CONNECT MOTORIZED DAMPER

(5) PROVIDE PANIC HARDWARE ON DOOR.

(6) CONNECT FUTURE HOOD

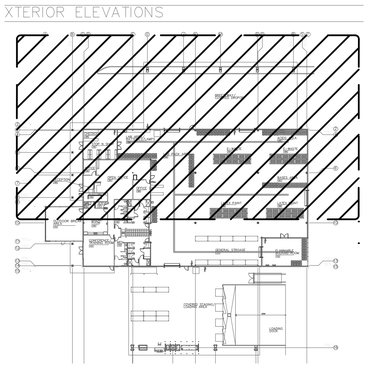
(7) WORKING CLEARANCE IN FRONT OF PANELS SHALL BE AS WIDE AS THE EQUIPMENT X 36"DEEP X 78"HIGH.



ENLARGED POWER FLOOR PLAN – NORTH

SCALE: 1/8"=1'-0"

XTERIOR ELEVATIONS



KEY PLAN N.S.

Skarphol/Frank Associates
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skarpholfrank.com

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KERN COUNTY APPROVED BUILDING INSPECTION
RUIZJORGE K202408865
Dennis McNamara
1/13/2026 8:08:03 AM PST

A NEW BUILDING FOR:

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

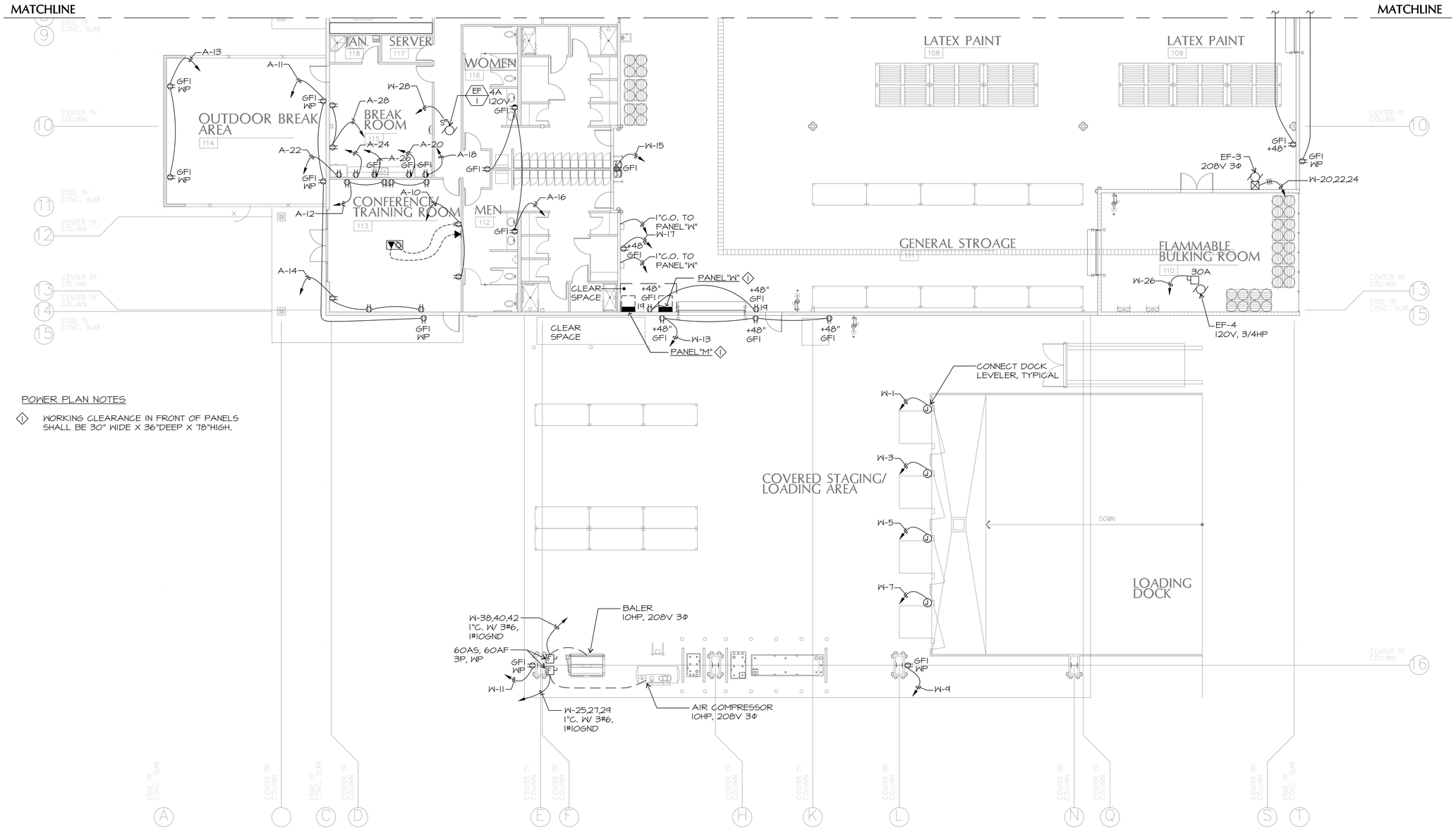
DATE	ISSUED FOR

REVISION	DESCRIPTION

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
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JOHN MALONEY
No. E013083
EXP. 12/31/2026
ELECTRICAL
STATE OF CALIFORNIA

JOB	
DP	E211
PM	



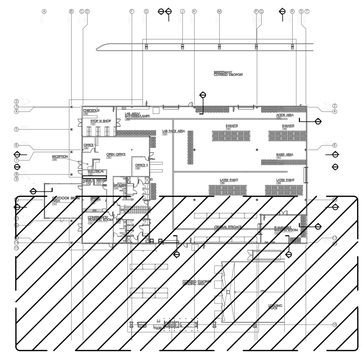
POWER PLAN NOTES

1. WORKING CLEARANCE IN FRONT OF PANELS SHALL BE 30" WIDE X 36"DEEP X 78"HIGH.

ENLARGED POWER FLOOR PLAN - SOUTH

SCALE: 1/8"=1'-0"

XTERIOR ELEVATIONS



KEY PLAN N.S.

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ARCHITECTURE • PLANNING • INTERIORS
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RUIZJORGE K202408865
Dennis McNamara
1/13/2025 8:00:00 AM

A NEW BUILDING FOR:

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	E212
DP	
PM	

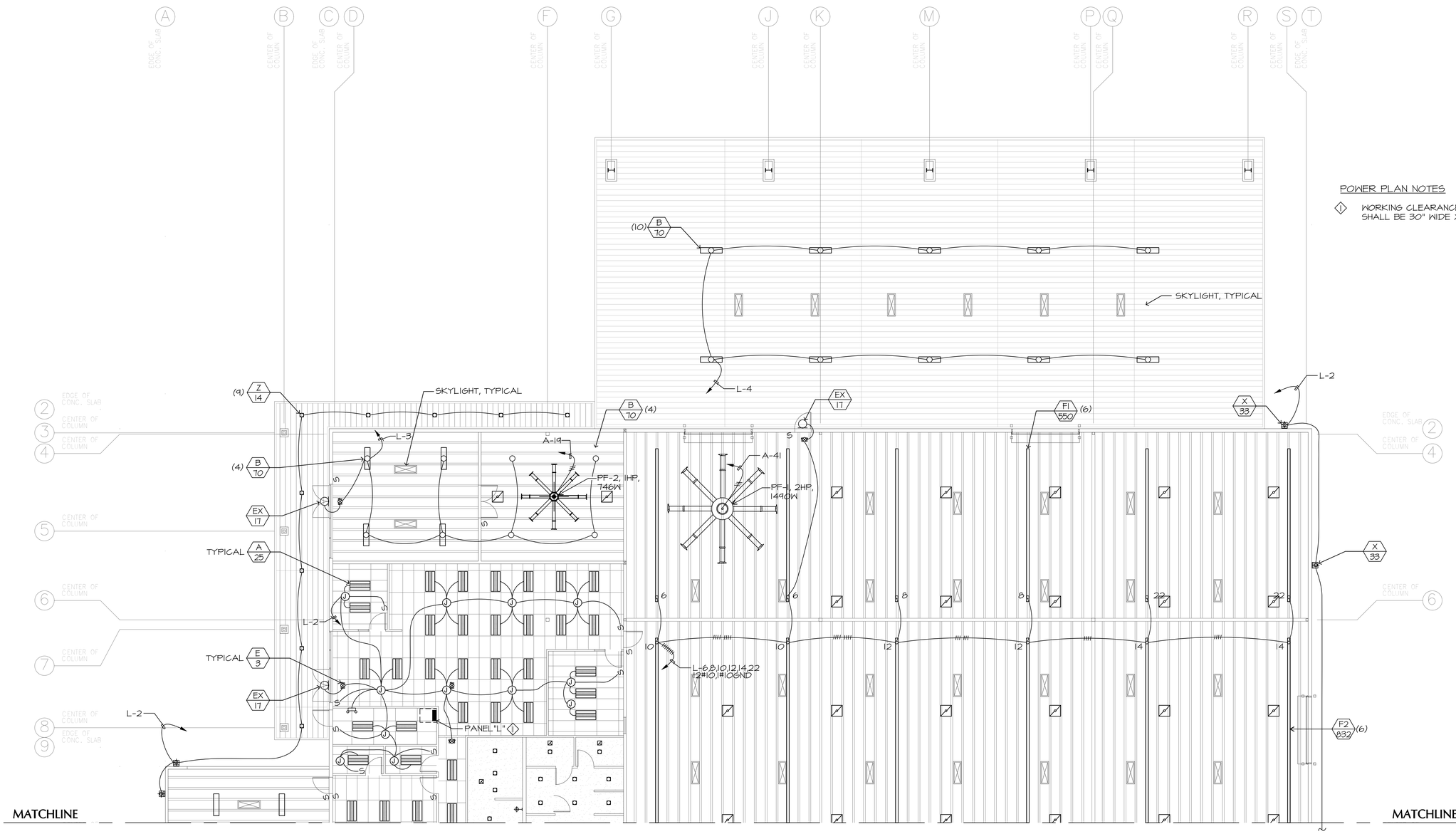
JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
2375d
5500 MING AVENUE, SUITE 201
BAKERSFIELD, CA 93309
(661) 831-7551
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net
REGISTERED PROFESSIONAL ENGINEER JAMES MALONEY No. E013375 EXP. 06/30/2026 ELECTRICAL STATE OF CALIFORNIA

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POWER PLAN NOTES

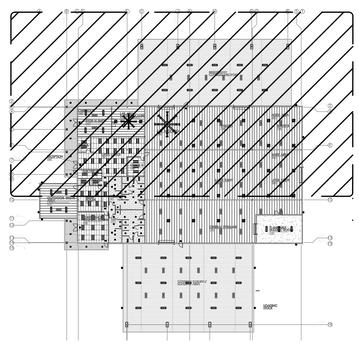
1. WORKING CLEARANCE IN FRONT OF PANELS SHALL BE 30" WIDE X 36"DEEP X 78"HIGH.



N ENLARGED LIGHTING FLOOR PLAN - NORTH

SCALE: 1/8"=1'-0"

ROOF PLAN



N KEY PLAN N.S.

KERN COUNTY APPROVED BUILDING INSPECTION
RUIZJORGE K202408865
1/13/2025 Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY SPECIAL WASTE FACILITY

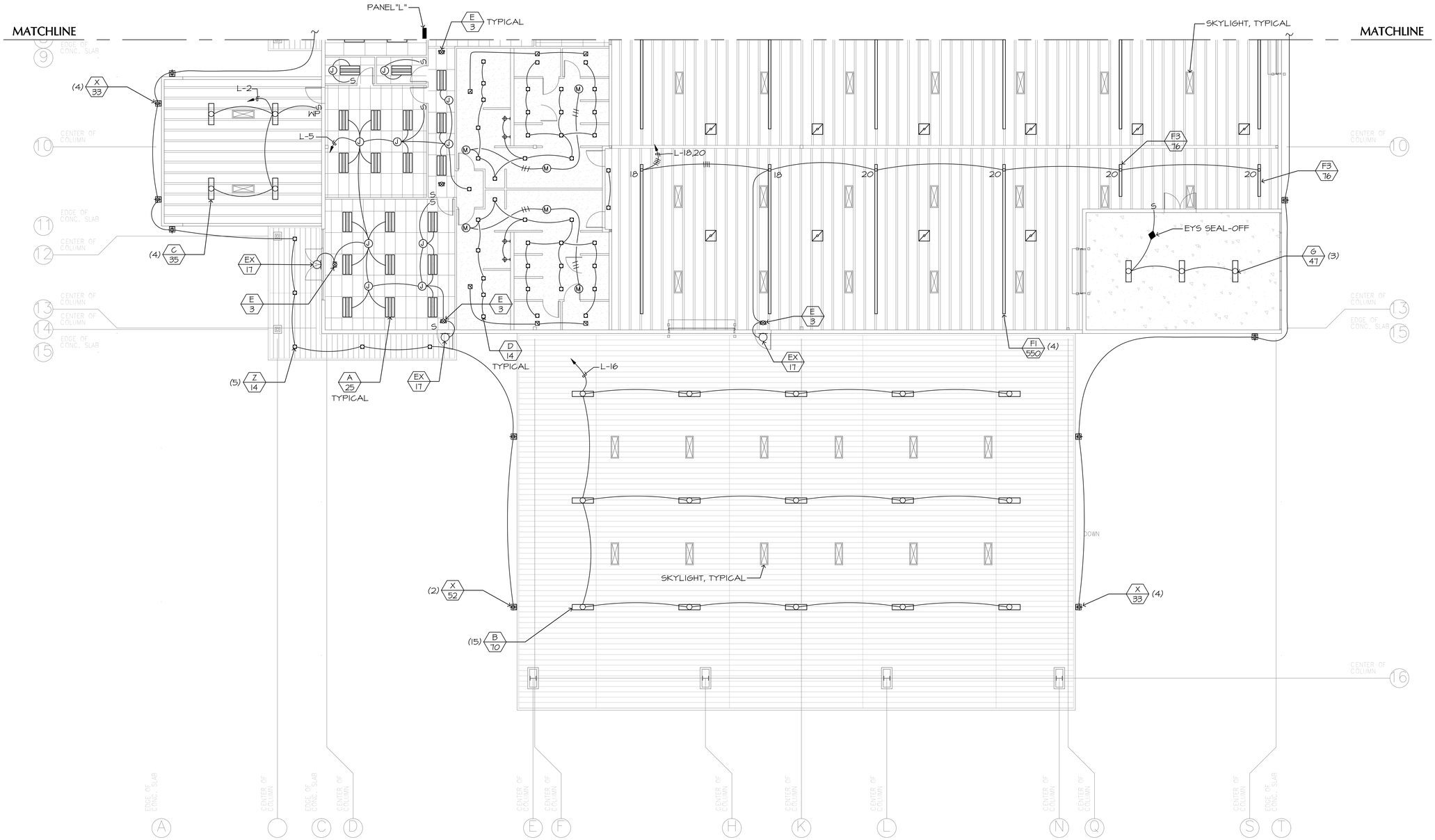
SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

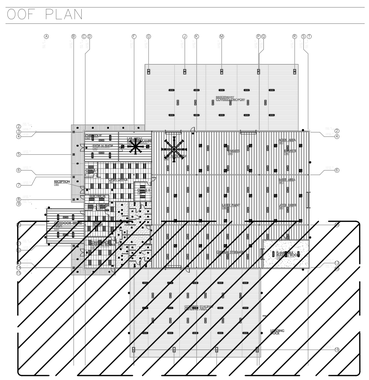
JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
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REGISTERED PROFESSIONAL ENGINEER
JOHN MALONEY
No. E013083
EXP. 12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

JOB	E311
DP	
PM	



ENLARGED LIGHTING FLOOR PLAN - SOUTH

SCALE: 1/4"=1'-0"



KEY PLAN N.S.

Skarphol/Frank Associates
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(661) 394-2741
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KERN COUNTY
APPROVED
BUILDING INSPECTION
RUIZJORGE K202408865
Dennis McNamara
1/13/2025 8:48:53 AM PST

DO NOT SCALE PLANS
PLANS APPROVED
PLANS NOT TO BE CHANGED WITHOUT APPROVAL

A NEW BUILDING FOR:

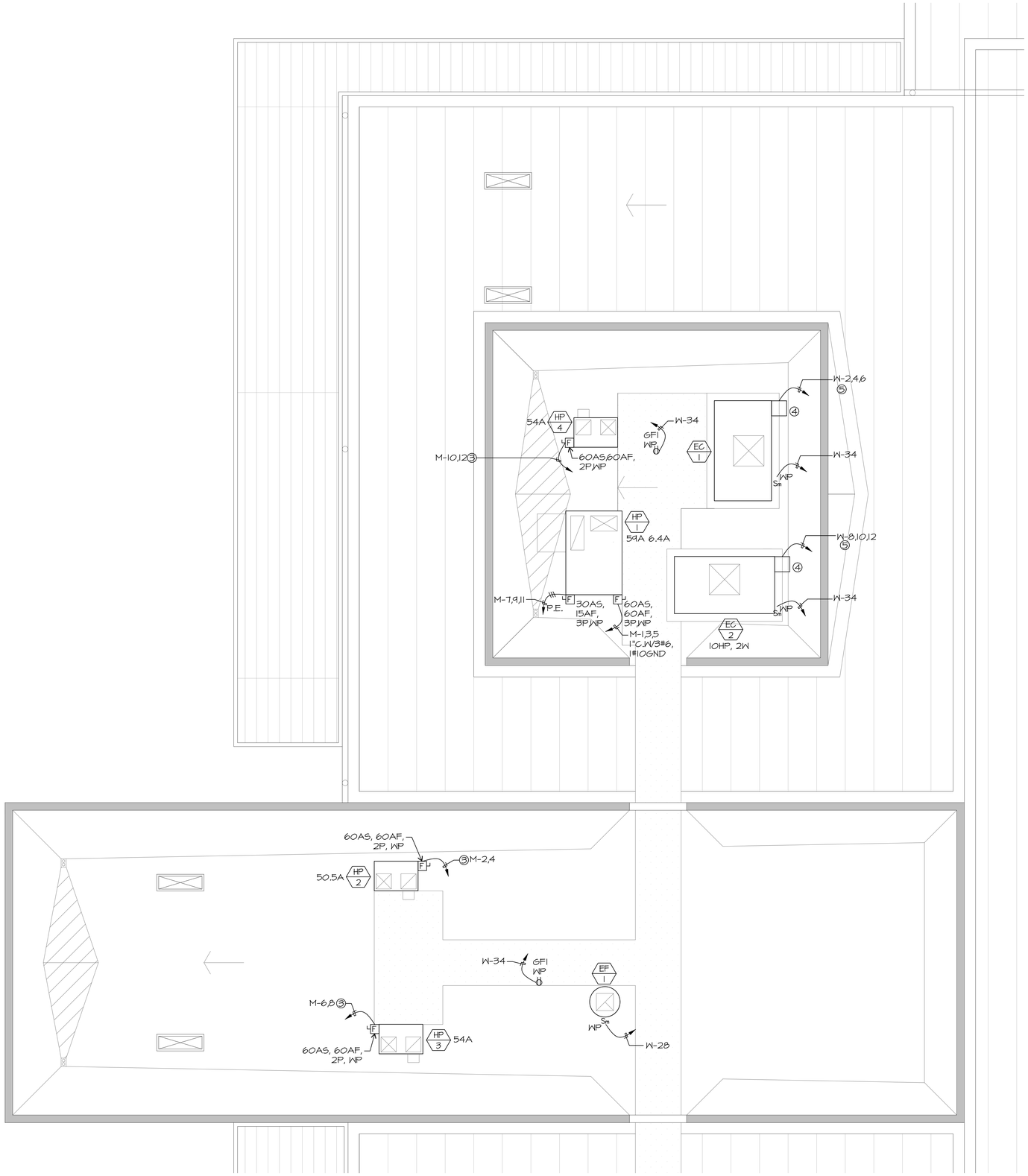
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	E312
DP	
PM	



(N) PANEL SCHEDULE "M"

SERVICE: 120/208V 3Φ 4W | MAIN BKR.: MLO | BUS: 225A | LOC: SEE PLAN | MTG: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	RIC	LIG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	RIG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
HP-1	7080						3	60	1	2	60	2			1	6080			HP-2
"		7080						X	3	4	X	X					6080		"
"			7080					X	5	6	60	2			1			6480	HP-3
HP-1 PE	800					1	3	15	7	8	X	X				6480			"
"		800						X	9	10	60	2			1		6480		HP-4
"			800					X	11	12	X	X						6480	"
SPACE									13	14									SPACE
"									15	16									"
"									17	18									"
"									19	20									"
"									21	22									"
"									23	24									"

TOTAL WATTS= 61,680 | ΦA= 20,420 | ΦB= 20,420 | ΦC= 20,840

AMPS= 171A + 15A LGST MOTOR = 186A | MINIMUM BKR | A.I.C. RATING= 10,000 AMPS SYM

(N) PANEL SCHEDULE "W"

SERVICE: 120/208V 3Φ 4W | MAIN BKR.: MLO | BUS: 225A | LOC.: SEE PLAN | MTG.: SURFACE

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LTG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LTG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
DOCK LEVERER	600					1	1	20	1	2	60	3			1	3864			FC-1
"		600				1	1	20	3	4	X	X					3864		FC-1 10 HP
"			600			1	1	20	5	6	X	X						3864	"
"	600					1	1	20	7	8	60	3			1	3864			FC-2
DOCK REC		500		1			1	20	9	10	X	X					3864		FC-2 10 HP
"			500	1			1	20	11	12	X	X						3864	"
"	540			3			1	20	13	14	15	3			1	936			EF-2
EDF		300		1			1	20	15	16	X	X					936		"
SOUTH WAREHOUSE			500	1			1	20	17	18	X	X						936	"
"	540			2			1	20	19	20	15	3			1	936			EF-3
EAST WAREHOUSE		300		2			1	20	21	22	X	X					936		"
"			500	2			1	20	23	24	X	X						936	"
SPARE	500						1	20	25	26	30	1			1	1656			EF-4
"		500					1	20	27	28	20	1					480		EF-1
"			500				1	20	29	30	20	1			2			240	MOTORIZED DAMPERS
PF-1	497					1	3	15	31	32	20	1			5	250			SFDS
PF-1 2HP		497					X	X	33	34	20	1					600		ROOF REC. EC
"			497				X	X	35	36	20	1							SPARE
PF-2	249					1	3	15	37	38	20	1							"
PF-2 HP		249					X	X	39	40	20	1							"
"			249				X	X	41	42	20	1							"

TOTAL WATTS= 40,504 | ΦA= 14,492 | ΦB= 13,326 | ΦC= 12,686

AMPS= 113A + 8A LGST MOTOR = 121A | MINIMUM BKR | A.I.C. RATING= 10,000 AMPS SYM

ELECTRICAL NOTES

1. SEAL ALL ROOF PENETRATIONS WATERTIGHT.
2. COORDINATE EXACT EQUIPMENT LOCATIONS AND REQUIREMENTS WITH INSTALLER.

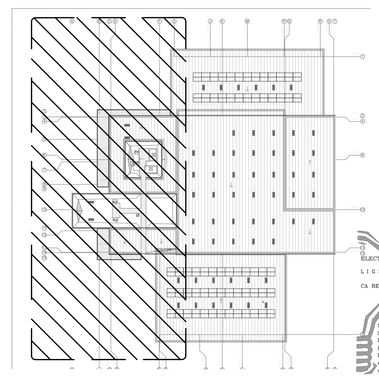
③ 1"C,W 2#6,1#10GND

④ SINGLE POINT DISCONNECT/CONTROL PANEL.

⑤ 1"C,W3#8, 1#10GND.

PARTIAL ELECTRICAL ROOF PLAN

SCALE: 1/4"=1'-0"



KEY PLAN

N.S.

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ARCHITECTURE • PLANNING • INTERIORS
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KERN COUNTY APPROVED BUILDING INSPECTION
10/3/2025, 1:48:35 PM
K202408865
Mackenzie Flowers

KERN COUNTY APPROVED BUILDING INSPECTION
1/13/2026 8:30:55 AM
RUIZJORGE K202408865
Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
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email : maloney@jmpe.net
www.jmpe.net

REGISTERED PROFESSIONAL ENGINEER JAMES MALONEY No. E013083 EXP. 6/30/2027 ELECTRICAL STATE OF CALIFORNIA

JOB	
DP	E400
PM	

L A N D S C A P E D E V E L O P M E N T

KERN COUNTY SPECIAL WASTE FACILITY
SEC OF DOWNING AVENUE & WEAR STREET

KERN COUNTY PUBLIC WORKS
BAKERSFIELD, CA 93301

GENERAL NOTES:

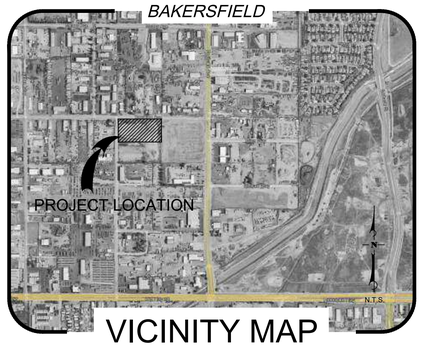
1. SEE CIVIL ENGINEERS DRAWINGS FOR GRADING AND DRAINAGE INFORMATION NOT SHOWN IN THESE DRAWINGS.
2. UPON EXECUTION OF THE CONTRACT, PROVIDE THE LANDSCAPE ARCHITECT AND OWNER WITH A CRITICAL PATH SCHEDULE TO INCLUDE EACH ITEM, LEAD TIME, ORDER AND INSTALLATION DATE FOR SUBSTANTIAL COMPLETION.
3. PROVIDE FOR POSITIVE DRAINAGE. NOTIFY LANDSCAPE ARCHITECT IF SITE CONDITIONS ARE OTHERWISE. MAINTAIN FLOWLINES AND DRAINAGE PATTERNS AS INDICATED ON ENGINEER'S GRADING DRAWINGS.
4. VERIFY AND STAKE LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND IS REQUIRED BY GOVERNING AGENCIES BE HELD LIABLE FOR DAMAGES TO EXISTING UTILITIES INCURRED BY INSTALLATION OF THE WORK.
5. REPAIR AND REPLACE ANY EXISTING IMPROVEMENTS THAT ARE DAMAGED DURING CONSTRUCTION.
6. CHECK DIMENSIONS, FRAMING CONDITIONS AND SITE CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCIES OR POSSIBLE DEFICIENCIES BETWEEN THE DRAWINGS AND THE SPECIFICATIONS WITH FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT AND THE OWNER.
7. VERIFY PROPERTY LINES PRIOR TO COMMENCING WORK. NO CONSTRUCTION ITEM, INCLUDING FOOTINGS, SHALL EXTEND BEYOND PROPERTY LINE.
8. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUB-CONTRACTORS AS REQUIRED TO ACCOMPLISH THE WORK, PIPING, CONDUIT AND SLEEVES SHALL BE SET IN PRIOR TO INSTALLATION OF CONSTRUCTION ITEMS.
9. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISH STRUCTURE, CONSTRUCTION MEANS AND METHODS, SAFETY PROCEDURES, BRACING, TEMPORARY SUPPORTS, AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OBSERVATION VISITS TO THE JOB SITE BY THE LANDSCAPE ARCHITECT DO NOT INCLUDE INSPECTION OF CONSTRUCTION METHODS AND SAFETY CONDITIONS AT THE WORK SITE. THESE VISITS SHALL NOT BE CONSTRUED AS CONTINUOUS AND DETAILED INSPECTIONS.
10. GIVE LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS NOTICE FOR REQUIRED OR REQUESTED JOB SITE VISIT.
11. FORMS AND ALIGNMENT OF PAVING SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO POURING.
12. FOR SUBMITTALS, SAMPLES AND SHOP DRAWINGS REQUESTED, SUBMIT IN TRIPLICATE TO LANDSCAPE ARCHITECT WITH ONE COPY TO THE OWNER UNLESS OTHERWISE SPECIFIED.
13. PROPOSED SURFACES SHALL MEET EXISTING SURFACES WITH SMOOTH AND CONTINUOUS TRANSITION AND FLUSH ALONG ENTIRE EDGE.
14. DIMENSIONS ARE FROM OUTSIDE FACE OF THE BUILDING, PAVING AND WALLS UNLESS OTHERWISE NOTED. ANGLES ARE 90 OR 45 UNLESS OTHERWISE NOTED.
15. COORDINATE AND COOPERATE WITH CONTRACTORS OF ATTACHED, ADJOINING AND INTERFACING WORK OF OTHER TRADES.
16. MATERIALS AND WORKMANSHIP, CONFORM TO LATEST UNIFORM BUILDING CODES AND APPLICABLE GOVERNING AGENCY CODES AND ORDINANCES. NO PART OF CONTRACT DOCUMENTS TO BE IN VIOLATION OF CODES. IF DISCREPANCIES EXIST, NOTIFY LANDSCAPE ARCHITECT AND OWNER.

CONSTRUCTION NOTES:

1. CONCRETE, MINIMUM COMPRESSIVE STRENGTH OF 2500 P.S.I. AT TWENTY EIGHT (28) DAYS.
2. CEMENT: CONFORM TO A.S.T.M. C150 AND AGGREGATE SHALL CONFORM TO A.S.T.M. C33.
3. CONCRETE SLUMP: MAXIMUM SLUMP 4 INCHES, EXCEPT FOR FOUNDATIONS WHICH MAY HAVE A 5 INCH MAXIMUM SLUMP.
4. CONSTRUCTION TO BE PLUMB AND TRUE UNLESS OTHERWISE NOTED OR INDICATED.
5. REBAR AND FOOTING SIZES, IF SHOWN, ARE FOR BIDDING PURPOSES ONLY. VERIFY WITH OWNER'S STRUCTURAL OR SOILS ENGINEER THE NEED FOR ALL REINFORCING, BASE MATERIAL, PRE SATURATION AND OTHER STRUCTURAL REQUIREMENTS.
6. PAVING AND CONCRETE CONTRACTORS ARE TO COORDINATE AND COOPERATE WITH THE ELECTRICAL, DRAINAGE AND IRRIGATION SYSTEMS INSTALLATION FOR REQUIRED SLEEVES, PIPES, AND CONDUITS UNDER PAVING.
7. PRIOR TO LAYOUT IF UNDERGROUND IMPROVEMENTS, REFER TO PLANTING PLANS FOR TREE LOCATIONS. STAKE TREES AND OUTLINE SPECIFIED BOX SIZE. ROUT UNDERGROUND DRAINAGE, ELECTRICAL, POOL AND IRRIGATION PIPING OUTSIDE EXCAVATION REQUIRED FOR TREES.
8. ALLOW AT LEAST 6-8 WEEKS TIME FOR PLACEMENT OF ORDER UNTIL DELIVERY ON ANY MANUFACTURED ITEM UNLESS OTHERWISE NOTED.
9. REFER TO FINISH GRADING/DRAINAGE PLANS FOR VERTICAL DIFFERENCES, GRADES AND DRAINAGE SYSTEMS.
10. WRITTEN DIMENSIONS AND DETAILS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
11. VERIFY AND BE RESPONSIBLE FOR DIMENSIONS AND CONDITIONS AT THE JOB SITE. REPORT DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE OWNER AND THE LANDSCAPE ARCHITECT.
12. CONFORM TO LATEST UNIFORM BUILDING CODE AND APPLICABLE GOVERNING AGENCY CODES AND ORDINANCES. NO PART OF THE CONTRACT DOCUMENTS ARE INTENDED TO BE IN VIOLATION OF CODES. IF DISCREPANCIES EXIST, NOTIFY LANDSCAPE ARCHITECT AND OWNER.
13. COORDINATE AND COOPERATE WITH CONTRACTORS OF ATTACHED, ADJOINING AND INTERFACING WORK OF OTHER TRADES.

MASONRY NOTES:

1. CONCRETE, MINIMUM COMPRESSIVE STRENGTH OF 2500 P.S.I. AT TWENTY EIGHT (28) DAYS.
2. GROUT CELLS WITH STEEL SOLID.
3. GROUT SOLID CELLS IN RETAINING WALLS OR THE RETAINING PORTION OF WALL.
4. CONSTRUCT WALL LEVEL, PLUMB AND TRUE TO LINE AND GRADE UNLESS OTHERWISE NOTED.
5. COORDINATE AND COOPERATE WITH CONTRACTORS OF ATTACHED, ADJOINING, AND/OR INTERFACING WORK OF OTHER TRADES.
6. MATERIALS AND WORKMANSHIP, CONFORM TO LATEST UNIFORM BUILDING CODE AND APPLICABLE GOVERNING AGENCY CODES AND ORDINANCES. NO PART OF THE CONTRACT DOCUMENTS ARE INTENDED TO BE IN VIOLATION OF CODE. IF DISCREPANCIES EXIST, NOTIFY LANDSCAPE ARCHITECT AND OWNER.
7. POUR FOOTINGS ON UNDISTURBED NATURAL SOIL OR FILL COMPACTED 90% RELATIVE DENSITY.
8. FOOTING TO BE CONTINUOUS POUR TO GREATEST EXTENT PRACTICAL. STEP FOOTINGS IN EVEN BLOCK INCREMENTS. COMPLY WITH CODES.
9. REBAR SPLICES, MINIMUM OF FORTY (40) BAR DIAMETERS WITH A MINIMUM OF FORTY EIGHT (48) BAR DIAMETERS IN RETAINING WALLS, UNLESS OTHERWISE SPECIFIED / NOTED IN DETAILS.
10. DOWELS, EQUAL IN SIZE AND SPACING TO VERTICAL BARS.
11. MASONRY UNITS, GRADE "N" CONFORMING TO LATEST A.S.T.M. C90, AND MANUFACTURED IN ACCORDANCE WITH "CONCRETE MASONRY ASSOCIATION" STANDARDS. COMPRESSIVE STRENGTH SHALL BE MINIMUM fm= 1550 P.S.I. GROUTED AT REINFORCING ONLY AND MINIMUM fm= 1500 P.S.I. SOLID GROUT.
12. GROUT, FRESHLY PREPARED AND UNIFORMLY MIXED BY VOLUME OF ONE (1) PART CEMENT, THREE (3) PART SAND, AND TWO (2) PARTS PEA GRAVEL WITH A MINIMUM COMPRESSIVE STRENGTH OF 200 P.S.I. AT TWENTY EIGHT (28) DAYS, COLOR AND MIX TO BE SELECTED BY LANDSCAPE ARCHITECT.
13. MORTAR, CONFIRM GROUT COLOR PRIOR TO CONSTRUCTION. NATURAL GREY COLOR IF COVERED BY SUBSEQUENT FINISH. COLOR MORTAR TYPICAL TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE NOTED OR AS SPECIFIED BY LANDSCAPE ARCHITECT.
14. PORTLAND CEMENT, TYPE I AND CONFORM TO A.S.T.M. 150.
15. REINFORCING STEEL, DEFORMED BARS CONFORMING TO A.S.T.M. A615, GRADE 40 FOR #5 AND SMALLER AND GRADE 60 FOR #6 AND LARGER.
16. WIRE REINFORCING, CONFORM TO A.S.T.M. 182.
17. REINFORCING SHALL HAVE THE FOLLOWING MINIMUM COVERS UNLESS OTHERWISE NOTED.
    - CONCRETE AGAINST EARTH NOT FORMED - 3"
    - CONCRETE AGAINST EARTH NOT FORMED OR TROWELED - 2"
    - WALLS AND CURBS - 1 1/2"
    - SLAB ON GRADE 1 1/2"



VICINITY MAP

LANDSCAPE SHEET INDEX

SHEET	DRAWING TITLE	SHEET NO.
LCS	COVER SHEET	1
LC.01	CONSTRUCTION PLAN	2
LCD.01 - LCD.03	CONSTRUCTION DETAILS	3
LI.00	IRRIGATION SCHEDULE & CALCS	4
LI.01	IRRIGATION PLAN	5
LP.00	PLANTING SCHEDULE & NOTES	6
LP.01	PLANTING PLAN	7
LD.01 - LD.02	IRRIGATION/PLANTING DETAILS	8-10
LSR.01	SOILS REPORT	11

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OWNER / CLIENT
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Bakersfield, California 93301
(661) 334-2741
Contact: Denise Saucedo

CIVIL ENGINEER
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2000 Oak Street, Ste 150
Bakersfield, California 93301
(661) 295-1970
Contact: Justin Swanson

ARCHITECT
Skarphol/Frank Associates
925 17th Street
Bakersfield, California 93301
(661) 334-2741
Contact: Greg Frank

LANDSCAPE WATER USE STATEMENT:

I HAVE COMPLIED WITH THE CRITERIA OF THE STATE OF CALIFORNIA MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLAN.

August 19, 2025
MIKE McDONNELL (RLA #5669) DATE

Skarphol/Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
(661) 334-2741
skarpholfrank.com

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PUBLIC WORKS INSPECTION
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K202408865
Mackenzie Flowers

DESIGN STUDIOS
LANDSCAPE DEVELOPMENT, INC
88 N.Oak Street,Suite 1A
Ventura, California 93001
Phone 661-295-1970
Fax 661-295-1969

LANDSCAPE DEVELOPMENT REVIEW
Signature
NOV. 30, 2025
Revised Date
AUG. 19, 2025
Date
STATE OF CALIFORNIA
APPROVED
PW LDR REQUIREMENTS MET
SEE MEMO
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K202408865
Dennis McNamara

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A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

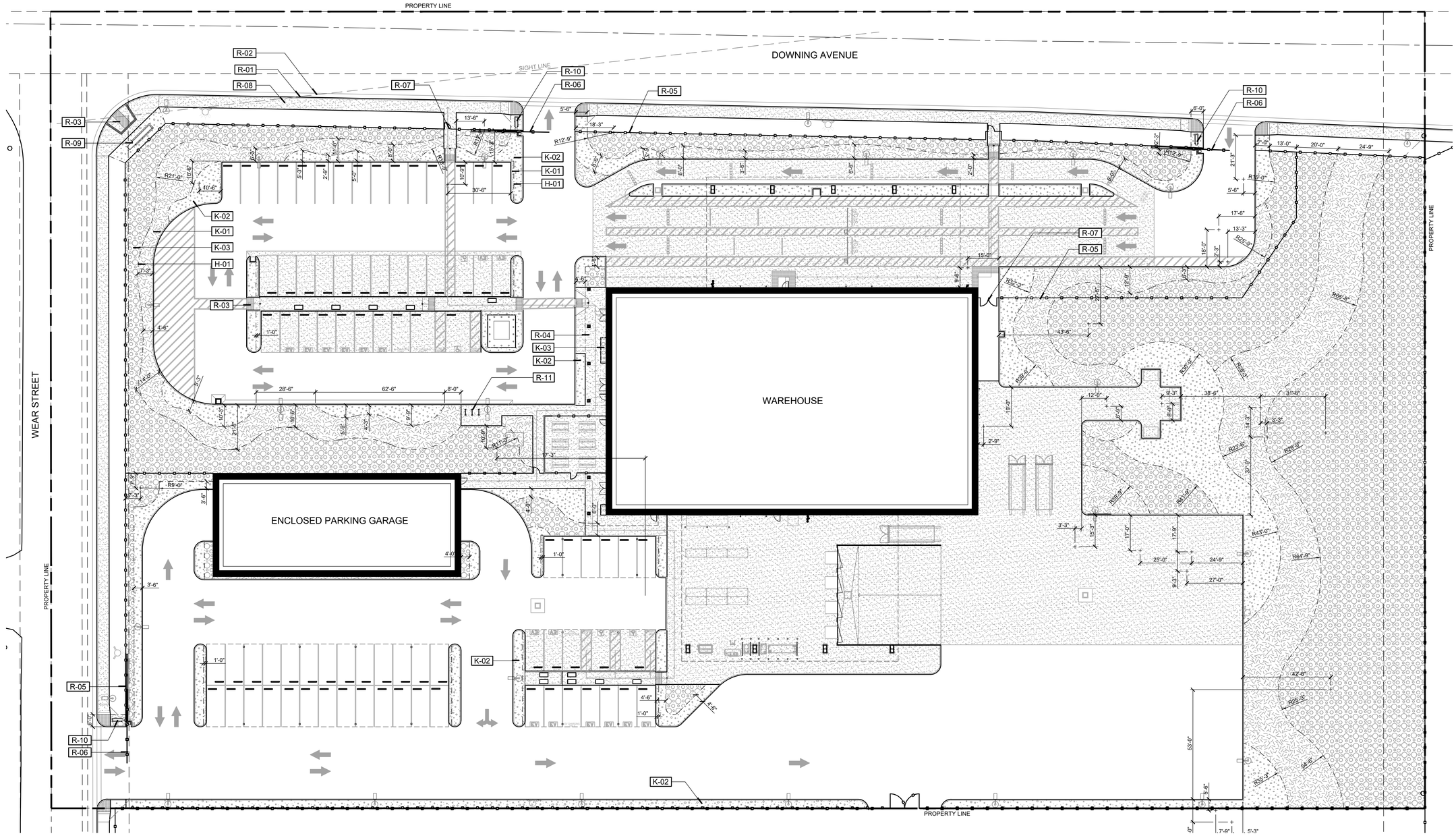
SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB 1737800
DP TE
PM TE

LCS
1




DECOMPOSED GRANITE


CRUSHED STONE


DECORATIVE LANDSCAPE PEBBLE

REFERENCE NOTES SCHEDULE

CODE — DESCRIPTION

HEAD BOARDS

H-01 — BENDA BOARD HEADER
MANUFACTURER: EPIC PLASTICS
SIZE: 1"X6"
COLOR: REDWOOD
NOTE: OR APPROVED EQUAL

ROCK

K-01 — DECOMPOSED GRANITE
MANUFACTURER: KRC ROCK
COLOR: PALM SPRINGS GOLD
NOTE: OR APPROVED EQUAL

K-02 — CRUSHED GRAVEL
MANUFACTURER: KRC ROCK
COLOR: CHAMOIS BEIGE
SIZE: 3/8"
NOTE: OR APPROVED EQUAL

K-03 — DECORATIVE LANDSCAPE COBBLE
MANUFACTURER: KRC ROCK
COLOR: BEACH PEBBLE BUFF
SIZE: 3"-5"
NOTE: OR APPROVED EQUAL

REFERENCE

R-01 — CURB, REFER TO ARCHITECT
R-02 — GUTTER, REFER TO ARCHITECT
R-03 — CURB RAMP, REFER TO CIVIL ENGINEER
R-04 — CONCRETE WALK, REFER TO ARCHITECT
R-05 — SITE FENCING, REFER TO ARCHITECT
R-06 — VEHICULAR ENTRY GATE, REFER TO ARCHITECT
R-07 — PEDESTRIAN ENTRY GATE, REFER TO ARCHITECT
R-08 — PUBLIC SIDEWALK, REFER TO ARCHITECT
R-09 — ENTRY MONUMENT - TYPE 1, REFER TO ARCHITECT
R-10 — ENTRY MONUMENT - TYPE 2, REFER TO ARCHITECT
R-11 — BIKE RACK, REFER TO ARCHITECT

NORTH

Scale: 1" = 20'-0"
0 5' 10' 20' 40'

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LICENSED LANDSCAPE ARCHITECT — 5616 — STATE OF CALIFORNIA
Signature
NOV. 30, 2025 — Renewal Date
AUG. 19, 2025 — Date
APPROVED PER CODE REQUIREMENTS ONLY — SEE MEMO
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Dennis McNamara

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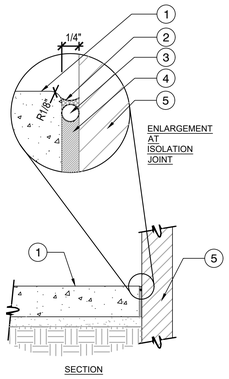
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB 1737800	
DP TE	LC.01
PM TE	2



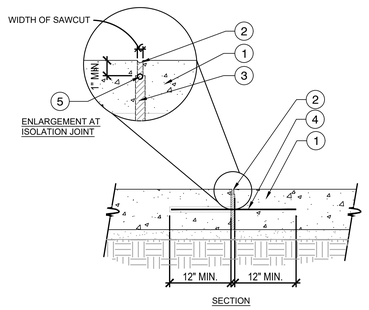
1. CONCRETE PAVING, RE: CONSTRUCTION SCHEDULE
2. APPROVED JOINT SEALANT, PER SPECIFICATIONS. COLOR TO MATCH ADJACENT CONCRETE PAVING
3. CLOSED CELL BACKER ROD
4. JOINT FILLER
5. VERTICAL SURFACE (I.E. WALL, BUILDING, COLUMN, STEPS, ETC.)

NOTES

1. REFER TO CONSTRUCTION PLANS, OR AS OTHERWISE DIRECTED WITHIN SPECIFICATIONS FOR LOCATION OF PAVING JOINTS.

D PAVING JOINT AT VERTICAL SURFACE

1" = 1" P-KE2-CO-31



1. CONCRETE PAVING, RE: CONSTRUCTION SCHEDULE
2. 1/8" SAWCUT JOINT - DEPTH TO BE 1/4 OF SLAB THICKNESS
3. 1/4" POLYPROPYLENE FOAM EXPANSION JOINT
4. #4 SMOOTH STEEL DOWEL, WITH #4 SPEED DOWEL AT 18" O.C.
5. JOINT SEALANT AT SAWCUT JOINT

NOTES:

1. REFER TO CONSTRUCTION PLANS, OR AS OTHERWISE DIRECTED WITHIN SPECIFICATIONS FOR LOCATION OF PAVING JOINTS
2. SUBMIT SAMPLE OF SEALANT TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION
3. MAXIMUM 20 FEET ON CENTER

C SAWCUT ISOLATION JOINT

1" = 1" P-KE2-CO-82

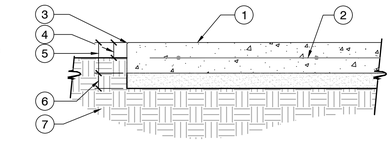
1. CONCRETE PAVING, RE: CONSTRUCTION SCHEDULE
2. 1/8" SAWCUT JOINT - DEPTH TO BE 1/4 OF SLAB THICKNESS

NOTES

1. REFER TO CONSTRUCTION PLANS, OR AS OTHERWISE DIRECTED WITHIN SPECIFICATIONS FOR LOCATION OF PAVING JOINTS
2. MAXIMUM OF 60 INCHES (5 FEET) ON CENTER OR AS INDICATED ON PLAN

B SAWCUT JOINT

1" = 1" P-KE2-CO-28



1. CONCRETE PAVING, REFER TO CONSTRUCTION SCHEDULE FOR COLOR AND FINISH
2. CONCRETE REINFORCMENT, TO BE PREPARED IN ACCORDANCE WITH GEOTECHNICAL REPORT
3. 1/4" TOOLED RADIUS ON ALL EXPOSED EDGES - TYPICAL
4. FINISH GRADE; 2" FOR PLANTER AREAS, 1" FOR TURF AREAS
5. CONCRETE THICKNESS, RE: CONSTRUCTION SCHEDULE
6. CONCRETE SUBBASE, TO BE PREPARED IN ACCORDANCE WITH GEOTECHNICAL REPORT
7. COMPACTED SUBGRADE, TO BE PREPARED IN ACCORDANCE WITH GEOTECHNICAL REPORT

NOTES:

1. HOLD REINFORCEMENT 3" CLEAR FROM EDGE OF PAVEMENT - TYPICAL
2. SUPPORT REINFORCEMENT WITH CHAIRS
3. CLEAN AND WASH CONCRETE

A CONCRETE PAVING

1 1/2" = 1'-0" P-KE2-CO-27

NOTES:

1. REFER TO CONSTRUCTION SCHEDULE FOR EDGING COLOR, FINISH, & STAKING SPACING

1. 4"-6" COBBLE, REFER TO CONSTRUCTION SCHEDULE
2. FINISH GRADE
3. EDGING, REFER TO CONSTRUCTION SCHEDULE
4. COMPACTED SUBGRADE, TO BE PREPARED IN ACCORDANCE WITH GEOTECHNICAL REPORT
5. FILTER FABRIC

F DECORATIVE COBBLE

3/4" = 1'-0" P-KE2-CO-03

1. 4" DEPTH DECOMPOSED GRANITE, INSTALL @ 2" COMPACTED LIFTS
2. FINISH GRADE
3. EDGING, RE: CONSTRUCTION SCHEDULE
4. COMPACTED SUBGRADE, TO BE PREPARED IN ACCORDANCE WITH GEOTECHNICAL REPORT
5. FILTER FABRIC
6. ADJACENT PAVING, REFER TO CONSTRUCTION PLAN

E DECOMPOSED GRANITE

3/4" = 1'-0" P-KE2-CO-02

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88 N.Oak Street,Suite 1A
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LICENSED LANDSCAPE ARCHITECT
TIMOTHY E. EVANS
No. 5778
Signature
NOV. 30, 2025
Renewal Date
AUG. 19, 2025
Date
STATE OF CALIFORNIA
APPROVED
PLANS MEET CITY LANDSCAPE REQUIREMENTS ONLY
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A NEW BUILDING FOR:

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

STATE	ISSUED FOR

REVISION	DESCRIPTION

JOB 1737800	
DIR TE	LCD.01
PM TE	
	3

GENERAL IRRIGATION NOTES

ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.

DO NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.

INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.

ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE TO THE END OF THE MAINLINE RUN IN TWO DIRECTIONS FROM THE CONTROLLER.
ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE TWICE THE DIAMETER OF THE PIPE CARRIED. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.

CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO COMMENCING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO OWNER'S REPRESENTATIVE.
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE. AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR.
ALL EQUIPMENT LOCATIONS AND PIPE ROUTING SHALL BE STAKED IN FIELD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. ALL LAYOUT SHALL BE AS APPROVED BY, LANDSCAPE ARCHITECT, AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVAL OF LAYOUT.
CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSTALLATION OF PROPOSED IRRIGATION EQUIPMENT AND RELATED EQUIPMENT, INCLUDING BUT NOT LIMITED TO R.C.V. CONTROL WIRES, ELECTRICAL WIRES, CONDUIT, REMOTE CONTROL VALVES, ETC. ALL LAYOUT AND LOCATIONS SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
CONTRACTOR SHALL REFER TO CORRESPONDING ON-SITE WATER AND SEWER PLAN FOR UNDERLYING WATERLINES, EASMENTS, AND OTHER RELATED EQUIPMENT. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS IN FIELD WITH OWNERS AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
CONTRACTOR SHALL MEET WITH THE OWNER PRIOR TO BEGINNING DEMOLITION OR ANY OTHER WORK, AND WALK SITE TO LOCATE EXISTING CONTROLLER AND LINES AND OTHER IRRIGATION TO BE PROTECTED IN PLACE.

NOTE:
THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO INSTALLED WITHIN PLANTING AREAS.

VALVE LOCATION NOTE:
ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THIS DRAWING ARE APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT EACH ELECTRICAL CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY OWNER PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY THE OWNER. MINOR MODIFICATIONS OF ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE OWNER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER. IN GENERAL, UNLESS OTHERWISE DIRECTED BY OWNER, ALL VALVES SHALL BE INSTALLED THREE FEET FROM EDGE OF HARDSCAPE, WALK OR CURB IN SHRUB PLANTING AREAS.

NOTES:
MAINLINE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL MAINLINE LOCATION TO BE A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP.

IRRIGATION SLEEVES SHOWN FOR MAJOR STREET, DRIVEWAY AND HARDSCAPE CROSSINGS FOR CLARITY ONLY. CONTRACTOR SHALL INSTALL SLEEVING BELOW ALL PAVING, HARDSCAPE, ETC. AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE.
ALL PIPING, MAINLINE AND LATERAL, AND WIRE SHALL BE SLEEVED UNDER PAVING. ALL SLEEVES TO BE MINIMUM 2X DIAMETER OF IRRIGATION PIPE SLEEVES. ALL MAINLINE SHALL BE ACCOMPANIED WITH A MINIMUM 2-INCH DIAMETER WIRE SLEEVE. SLEEVING TO EXTEND MINIMUM 12 INCHES BEYOND PAVING.

BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING AND BUILDINGS FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTER. BUBBLERS SHALL BE ALIGNED WITH TREES AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE. (AB 1881 SEC. 492.3).

LANDSCAPE ARCHITECT — DATE 03/28/2025

EQUIPMENT LOCATION NOTE

1. INSTALL ALL IRRIGATION EQUIPMENT, PRESSURE MAIN LINE PIPING, CONTROL VALVES, ETC. WITHIN PLANTING AREA - ANY IRRIGATION EQUIPMENT SHOWN OUTSIDE OF PLANTING AREA IS FOR DRAWING CLARITY (TYPICAL).
2. AUTOMATIC CONTROLLER AND ALL OTHER IRRIGATION EQUIPMENT LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE. STAKE OUT IRRIGATION EQUIPMENT LOCATIONS FOR REVIEW AND APPROVAL BY OWNER PRIOR TO INSTALLATION. FINAL LOCATION AND EXACT POSITIONING OF IRRIGATION EQUIPMENT SHALL BE DETERMINED BY OWNER. MINOR MODIFICATIONS OF IRRIGATION EQUIPMENT LOCATIONS AS REQUESTED BY THE OWNER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO INSTALLATION SHALL CAUSE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO OWNER.
3. REMOTE CONTROL VALVE, QUICK COUPLING VALVE AND GATE VALVE, ETC. LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE. THE CONTRACTOR SHALL STAKE OUT EACH ELECTRIC CONTROL VALVE, QUICK COUPLING VALVE AND GATE VALVE, ETC. LOCATION FOR REVIEW AND APPROVAL BY OWNER PRIOR TO INSTALLATION OF VALVES. SEE DETAILS FOR ADDITIONAL VALVE INSTALLATION INFORMATION. FINAL LOCATION AND EXACT POSITIONING OF IRRIGATION EQUIPMENT SHALL BE APPROVED BY THE OWNER. MINOR MODIFICATIONS OF IRRIGATION EQUIPMENT LOCATIONS AS REQUESTED BY THE OWNER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO INSTALLATION SHALL CAUSE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO OWNER.

IRRIGATION SLEEVE SIZES

PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
SLEEVE SIZE	3"	3"	3"	4"	4"	4"	6"	8"	12"

NOTE: IRRIGATION CONTROL WIRE CONDUIT SIZE SHALL BE 2.5"

SLEEVES ARE REQUIRED FOR ALL IRRIGATION PIPING INSTALLED UNDER PAVING AREAS. REFER TO IRRIGATION SLEEVE SIZING CHART SHOWN ON THIS SHEET FOR IRRIGATION SLEEVE SIZE (TYPICAL). NOTE: FOR DRAWING CLARITY ALL IRRIGATION SLEEVES ARE NOT SIZED, BUT SHALL BE INSTALLED AND INCLUDED AS PART OF THE CONTRACTOR'S BID. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE ITSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, FOOTINGS, ETC. AND COORDINATE ITS WORK WITH OTHER TRADES FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER FOOTINGS, UNDER ROADWAYS, UNDER PAVING, STRUCTURES, ETC.

MAWA / ETWU CALCULATIONS

Site Information

Site Name → KERN COUNTY SPECIAL WASTE FACILITY
Site Type → Commercial
Annual Eto (inches/yr) → 52.4

Hydrozone or Planting Description	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Hydrozone Area (sqft.)	ETAF x Area	Estimated Total Water Use (gal./yr.)
Regular Landscape Areas							
1	0.5	Mod./Ave.	Drip	0.81	0.6	1,905	1,177	38,224
2	0.2	Low	Drip	0.81	0.2	3,004	742	24,097
3	0.5	Mod./Ave.	Bubbler	0.81	0.6	40	25	802
4	0.2	Low	Drip	0.81	0.2	1,427	352	11,447
5	0.2	Low	Bubbler	0.81	0.2	35	9	281
6	0.2	Low	Drip	0.81	0.2	11,628	2,871	93,277
7	0.5	Mod./Ave.	Bubbler	0.81	0.6	65	40	1,304
8	0.2	Low	Drip	0.81	0.2	2,306	520	16,894
9	0.2	Low	Bubbler	0.81	0.2	60	15	491
10	0.2	Low	Drip	0.81	0.2	2,500	617	20,051
11	0.2	Low	Drip	0.81	0.2	3,316	819	26,600
12	0.5	Mod./Ave.	Bubbler	0.81	0.6	75	46	1,504
13	0.2	Low	Drip	0.81	0.2	2,333	1,808	58,743
14	0.2	Low	Drip	0.81	0.2	5,510	2,348	76,287
15	0.5	Mod./Ave.	Bubbler	0.81	0.6	65	40	1,304
16	0.2	Low	Drip	0.81	0.2	1,712	423	13,733
17	0.2	Low	Drip	0.81	0.2	9,218	2,276	73,944
					SUBTOTAL →	53,990	14,128	458,975
Special Landscape Areas								
					1		0	0
					SUBTOTAL →	0	0	0
					Estimated Total Water Use (ETWU) →			458,975
					Maximum Allowed Water Allowance (MAWA) →			789,312

ETAF Calculations

Regular Landscape Areas
Total ETAF x Area 14,128
Total Area 53,990
Average ETAF 0.26

All Landscape Areas
Total ETAF x Area 14,128
Total Area 53,990
Site-wide ETAF 0.26

Notes:

ETWU meets MAWA requirement.

Average ETAF meets requirement for this site type

Calculator developed July 27, 2015.
This calculator is for estimating purposes only.
Hunter assumes no liability for use of this calculator.

HYDROZONE TABLE

HYDROZONE*	ZONE OR VALVE	IRRIGATION METHOD	AREA (Sq. Ft)	% OF LANDSCAPE AREA
MW	1	D	1906	3.53
LW	2	D	3004	5.564
MW	3	B	40	0.074
LW	4	D	1427	2.643
LW	5	B	35	0.065
LW	6	D	11628	21.537
MW	7	B	65	0.12
LW	8	D	2106	3.901
LW	9	B	60	0.111
LW	10	D	2500	4.63
LW	11	D	3316	6.142
MW	12	B	75	0.139
LW	13	D	7323	13.564
LW	14	D	9510	17.614
MW	15	B	65	0.12
LW	16	D	1712	3.171
LW	17	D	9218	17.074

* Hydrozone
HW = High Water Use Plants
MW = Medium Water Use Plants
LW = Low Water Use Plants

Irrigation Method
MS = Micro Spray
S = Spray
R = Rotor
B = Bubbler
D = Drip
O = Other

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	DESIGN PSI	PSI	PSI @ POC	PRECIP
1	RAIN BIRD XCZ-100-PRB-COM	1"	DRIP EMITTER	1.27	717.9	30	37.1	49.3	0.11 in/h
2	RAIN BIRD XCZ-100-PRB-COM	1"	DRIP EMITTER	4.15	371.5	30	38.5	50.8	0.13 in/h
3	RAIN BIRD PEB-PRS-D	1"	BUBBLER	4	364.1	30	33.7	46.0	0.96 in/h
4	RAIN BIRD XCZ-100-PRB-COM	1"	DRIP EMITTER	2.66	290.8	30	37.2	49.4	0.14 in/h
5	RAIN BIRD PEB-PRS-D	1"	BUBBLER	3.5	283.7	30	31.9	44.1	0.97 in/h
6	RAIN BIRD XCZ-100-PRB-COM	1"	DRIP EMITTER	8.1	309.7	30	43.8	57.3	0.12 in/h
7	RAIN BIRD PEB-PRS-D	1"	BUBBLER	6.5	331.4	30	33.8	46.7	0.93 in/h
8	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	9.35	715.9	20	35.2	50.5	0.43 in/h
9	RAIN BIRD PEB-PRS-D	1"	BUBBLER	6	728.0	30	33.3	46.5	0.97 in/h
10	RAIN BIRD XCZ-100-PRB-COM	1"	DRIP EMITTER	5.58	735.4	30	39.3	52.3	0.14 in/h
11	RAIN BIRD XCZ-100-PRB-COM	1"	DRIP EMITTER	3.22	831.9	30	37.2	49.7	0.12 in/h
12	RAIN BIRD PEB-PRS-D	1"	BUBBLER	7.5	923.1	30	35.4	49.9	0.92 in/h
13	RAIN BIRD XCZ-100-PRB-COM	1"	DRIP EMITTER	5.71	1,065	30	38.3	51.8	0.13 in/h
14	RAIN BIRD XCZ-100-PRB-COM	1"	DRIP EMITTER	7.61	1,206	30	41.3	56.5	0.12 in/h
15	RAIN BIRD PEB-PRS-D	1"	BUBBLER	6.5	1,212	30	33.4	47.6	0.9 in/h
16	RAIN BIRD XCZ-100-PRB-COM	1"	DRIP EMITTER	1.74	1,219	30	37.4	49.8	0.11 in/h
17	RAIN BIRD XCZ-100-PRB-COM	1"	DRIP EMITTER	7.7	1,226	30	43.0	58.3	0.11 in/h
	Common Wire				2,193				

IRRIGATION SCHEDULE: ESTABLISHED

Irrigation Schedule

Project Name	KCSWF		ETo/Mo	JAN 1.0	FEB 1.8	MAR 3.5	APR 4.7	MAY 6.6	JUN 7.7	JUL 8.5	AUG 7.3	SEP 5.3	OCT 3.5	NOV 1.6	DEC 0.9	Total: 52.4	
POC / Controller:	Meter / 'C'		ETo/Day	0.03	0.06	0.11	0.16	0.21	0.26	0.27	0.24	0.18	0.11	0.05	0.03		
Irrigation Type & Qty. of Valves	*AKc (%)*	*Precip. Rate (in/hr.)*	*Irr. Effic.*														
LW Bubblers	0.2	0.97	0.81	0.5	1.0	1.7	2.4	3.3	3.9	4.2	3.6	2.7	1.7	0.8	0.4	Min/Day per Valve	
1				0	1	2	2	3	4	4	4	3	2	1	0	Total Min/Day	
MW Bubblers	0.5	0.94	0.81	1.3	2.5	4.4	6.2	8.4	10.1	10.8	9.3	7.0	4.4	2.1	1.1	Min/Day per Valve	
5				6	13	22	31	42	51	54	46	35	22	11	6	Total Min/Day	
LW Drip	0.2	0.12	0.81	4.0	7.9	13.9	19.3	26.3	31.7	33.9	29.1	21.8	13.9	6.6	3.6	Min/Day per Valve	
9				36	71	125	174	237	285	305	262	196	125	59	32	Total Min/Day	
MW Drip	0.5	0.11	0.81	10.9	21.6	38.0	52.7	71.7	86.4	92.3	79.3	59.5	38.0	18.0	9.8	Min/Day per Valve	
1				11	22	38	53	72	86	92	79	59	38	18	10	Total Min/Day	
LW Dripline	0.2	0.43	0.81	1.1	2.2	3.9	5.4	7.3	8.8	9.4	8.1	6.1	3.9	1.8	1.0	Min/Day per Valve	
1				1	2	4	5	7	9	9	8	6	4	2	1	Total Min/Day	
Total Valve Count																	
17			TOTAL RUN TIMES (HRS):	0.9	1.8	3.2	4.4	6.0	7.2	7.7	6.7	5.0	3.2	1.5	0.8		
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		

Weekly Irrigation Schedule

Irrigation Type & Qty. of Valves	*Cycles per day*	*Watering days/week*	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
LW Bubblers	2	4	0.4	0.9	1.5	2.1	2.8	3.4	3.7	3.1	2.4	1.5	0.7	0.4	Min/Day per Valve
1			0.4	0.9	1.5	2.1	2.8	3.4	3.7	3.1	2.4	1.5	0.7	0.4	Total Min/Day
MW Bubblers	2	4	1.1	2.2	3.9	5.4	7.3	8.8	9.5	8.1	6.1	3.9	1.8	1.0	Min/Day per Valve
5			5.6	11.1	19.5	27.0	36.7	44.2	47.3	40.6	30.5	19.5	9.2	5.0	Total Min/Day
LW Drip	2	4	3.5	6.9	12.2	16.9	23.0	27.7	29.6	25.4	19.1	12.2	5.8	3.1	Min/Day per Valve
9			31.4	62.5	109.8	152.3	207.0	249.5	266.6	228.9	171.8	109.8	51.9	28.2	Total Min/Day
MW Drip	2	4	9.5	18.9	33.3	46.2	62.7	75.6	80.8	69.4	52.0	33.3	15.7	8.6	Min/Day per Valve
1			9.5	18.9	33.3	46.2	62.7	75.6	80.8	69.4	52.0	33.3	15.7	8.6	Total Min/Day
LW Dripline	2	4	1.0	1.9	3.4	4.7	6.4	7.7	8.3	7.1	5.3	3.4	1.6	0.9	Min/Day per Valve
1			1.0	1.9	3.4	4.7	6.4	7.7	8.3	7.1	5.3	3.4	1.6	0.9	Total Min/Day
Total Valve Count															
17															

NOTE TO PROPERTY OWNER - The above irrigation schedule tells you how often and how long to run your irrigation system. Your irrigation should be programmed to run a maximum of four (4) days per week for each valve between the hours of 7:00 PM and 10:00 AM. Depending on the soil type and slope of your yard you may have to split the run time into 2 or 3 shorter cycles during one night in order to avoid the water running off your yard. These numbers are based on the historical average weather for the area and may need to be slightly adjusted based on the actual weather conditions each year. By following the irrigation schedule shown above you will likely save in excess of 20% of your annual water use for landscape irrigation and keep your plants healthy by not overwatering.

IRRIGATION SCHEDULE: ESTABLISHMENT

Irrigation Schedule

Project Name	KCSWF		ETo/Mo	JAN 1.0	FEB 1.8	MAR 3.5	APR 4.7	MAY 6.6	JUN 7.7	JUL 8.5	AUG 7.3	SEP 5.3	OCT 3.5	NOV 1.6	DEC 0.9	Total: 52.4	
POC / Controller:	Meter / 'C'		ETo/Day	0.03	0.06	0.11	0.16	0.21	0.26	0.27	0.24	0.18	0.11	0.05	0.03		
Irrigation Type & Qty. of Valves	*AKc (%)*	*Precip. Rate (in/hr.)*	*Irr. Effic.*														
LW Bubblers	0.3	0.97	0.81	0.7	1.5	2.6	3.6	4.9	5.9	6.3	5.4	4.0	2.6	1.2	0.7	Min/Day per Valve	
1				1	1	3	4	5	6	6	5	4	3	1	1	Total Min/Day	
MW Bubblers	0.6	0.94	0.81	1.5	3.0	5.3	7.4	10.1	12.1	13.0	11.1	8.4	5.3	2.5	1.4	Min/Day per Valve	
5				8	15	27	37	50	61	65	56	42	27	13	7	Total Min/Day	
LW Drip	0.3	0.12	0.81	6.0	11.9	20.9	29.0	39.4	47.5	50.8	43.6	32.7	20.9	9.9	5.4	Min/Day per Valve	
9				54	107	188	261	355	428	457	392	294	188	89	48	Total Min/Day	
MW Drip	0.6	0.11	0.81	13.0	26.0	45.6	63.3	86.0	103.7	110.8	95.1	71.4	45.6	21.5	11.7	Min/Day per Valve	
1				13	26	46	63	86	104	111	95	71	46	22	12	Total Min/Day	
LW Dripline	0.3	0.43	0.81	1.7	3.3	5.8	8.1	11.0	13.3	14.2	12.2	9.1	5.8	2.8	1.5	Min/Day per Valve	
1				2	3	6	8	11	13	14	12	9	6	3	2	Total Min/Day	
Total Valve Count																	
17			TOTAL RUN TIMES (HRS):	1.3	2.6	4.5	6.2	8.5	10.2	10.9	9.3	7.0	4.5	2.1	1.2		
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		

Weekly Irrigation Schedule

Irrigation Type & Qty. of Valves	*Cycles per day*	*Watering days/week*	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
LW Bubblers	2	4	0.6	1.3	2.3	3.1	4.3	5.1	5.5	4.7	3.5	2.3	1.1	0.6	Min/Day per Valve
1			0.6	1.3	2.3	3.1	4.3	5.1	5.5	4.7	3.5	2.3	1.1	0.6	Total Min/Day
MW Bubblers	2	4	1.3	2.7	4.7	6.5	8.8	10.6	11.3	9.7	7.3	4.7	2.2	1.2	Min/Day per Valve
5			6.7	13.3	23.4	32.4	44.0	53.1	56.7	48.7	36.5	23.4	11.0	6.0	Total Min/Day
LW Drip	2	4	5.2	10.4	18.3	25.4	34.5	41.6	44.4	38.2	28.6	18.3	8.6	4.7	Min/Day per Valve
9			47.0	93.8	164.7	228.5	310.5	374.3	399.9	343.4	257.6	164.7	77.8	42.3	Total Min/Day
MW Drip	2	4	11.4	22.7	39.9	55.4	75.3	90.7	96.9	83.3	62.5	39.9	18.9	10.3	Min/Day per Valve
1			11.4	22.7	39.9	55.4	75.3	90.7	96.9	83.3	62.5	39.9	18.9	10.3	Total Min/Day
LW Dripline	2	4	1.5	2.9	5.1	7.1	9.6	11.6	12.4	10.6	8.0	5.1	2.4	1.3	Min/Day per Valve
1			1.5	2.9	5.1	7.1	9.6	11.6	12.4	10.6	8.0	5.1	2.4	1.3	Total Min/Day
Total Valve Count															
17															

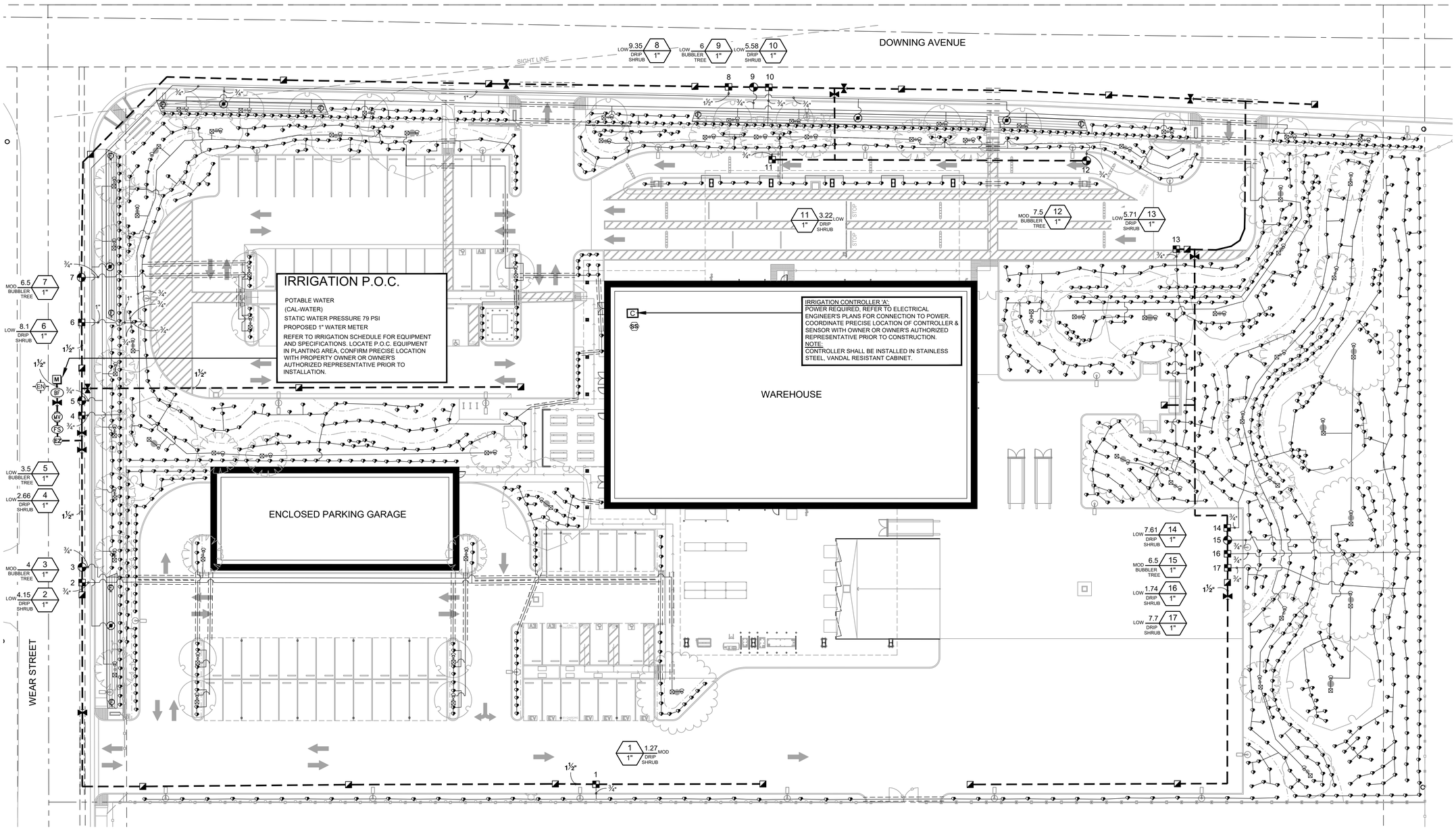
NOTE TO PROPERTY OWNER - The above irrigation schedule tells you how often and how long to run your irrigation system. Your irrigation should be programmed to run a maximum of four (4) days per week for each valve between the hours of 7:00 PM and 10:00 AM. Depending on the soil type and slope of your yard you may have to split the run time into 2 or 3 shorter cycles during one night in order to avoid the water running off your yard. These numbers are based on the historical average weather for the area and may need to be slightly adjusted based on the actual weather conditions each year. By following the irrigation schedule shown above you will likely save in excess of 20% of your annual water use for landscape irrigation and keep your plants healthy by not overwatering.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
25 50 10 20	HUNTER PROS-04-CV-PCN FLOOD BUBBLER, 4IN. POP-UP, FACTORY INSTALLED DRAIN CHECK VALVE.	68
1401 1402 1404 1406	RAIN BIRD RWS-B-C W/ RWS-SOCK 1400 SERIES ROOT WATERING SYSTEM WITH 4IN. DIAMETER X 36IN. LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE. CHECK VALVE AND SAND SOCK. RAIN BIRD BUBBLER OPTION AS INDICATED: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2 GPM.	68

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD XCZ-100-PRB-COM WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1IN. BALL VALVE WITH 1IN. PESB VALVE AND 1IN. PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3 GPM-20 GPM	11
	PIPE TRANSITION POINT IN DRIP BOX PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER IN 6IN. DRIP BOX.	5
	RAIN BIRD MDCFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.	8
0.5 1.0 2.0	RAIN BIRD XBCVT-PC ON A HUNTER IH-RISER SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS. FLOW RATES OF 0.5 GPH=BLUE, 1.0 GPH=BLACK, AND 2.0 GPH=RED. COMES WITH A 1/2IN. FPT INLET X BARB OUTLET. W/ CHECK VALVE. INSTALL WITH A HUNTER IH-RISER-18.	1,507
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-06-18 XFS SUB-SURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY. 0.6 GPH EMITTERS AT 18" O.C. LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. SPECIFY XF INSERT FITTINGS.	1,401 LF

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD PEB-PRS-D 1IN., 1-1/2IN., 2IN. PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.	6
	RAIN BIRD 44-LRC 1IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER



EQUIPMENT LOCATION NOTE

1. INSTALL ALL IRRIGATION EQUIPMENT, PRESSURE MAIN LINE PIPING, CONTROL VALVES, ETC. WITHIN PLANTING AREA - ANY IRRIGATION EQUIPMENT SHOWN OUTSIDE OF PLANTING AREA IS FOR DRAWING CLARITY (TYPICAL).
2. AUTOMATIC CONTROLLER AND ALL OTHER IRRIGATION EQUIPMENT LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE. STAKE OUT IRRIGATION EQUIPMENT LOCATIONS FOR REVIEW AND APPROVAL BY OWNER PRIOR TO INSTALLATION. FINAL LOCATION AND EXACT POSITIONING OF IRRIGATION EQUIPMENT SHALL BE DETERMINED BY OWNER. MINOR MODIFICATIONS OF IRRIGATION EQUIPMENT LOCATIONS AS REQUESTED BY THE OWNER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO INSTALLATION SHALL CAUSE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO OWNER.
3. REMOTE CONTROL VALVE, QUICK COUPLING VALVE AND GATE VALVE, ETC. LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE. THE CONTRACTOR SHALL STAKE OUT EACH ELECTRIC CONTROL VALVE, QUICK COUPLING VALVE AND GATE VALVE, ETC. LOCATION FOR REVIEW AND APPROVAL BY OWNER PRIOR TO INSTALLATION OF VALVES. SEE DETAILS FOR ADDITIONAL VALVE INSTALLATION INFORMATION. FINAL LOCATION AND EXACT POSITIONING OF IRRIGATION EQUIPMENT SHALL BE APPROVED BY THE OWNER. MINOR MODIFICATIONS OF IRRIGATION EQUIPMENT LOCATIONS AS REQUESTED BY THE OWNER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO INSTALLATION SHALL CAUSE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO OWNER.

IRRIGATION SLEEVE SIZES

PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
SLEEVE SIZE	3"	3"	3"	4"	4"	4"	6"	8"	12"

NOTE: IRRIGATION CONTROL WIRE CONDUIT SIZE SHALL BE 2.5"

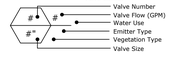
SLEEVES ARE REQUIRED FOR ALL IRRIGATION PIPING INSTALLED UNDER PAVING AREAS. REFER TO IRRIGATION SLEEVE SIZING CHART SHOWN ON THIS SHEET FOR IRRIGATION SLEEVE SIZE (TYPICAL). NOTE: FOR DRAWING CLARITY ALL IRRIGATION SLEEVES ARE NOT SIZED, BUT SHALL BE INSTALLED AND INCLUDED AS PART OF THE CONTRACTOR'S BID. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE ITSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, FOOTINGS, ETC. AND COORDINATE ITS WORK WITH OTHER TRADES FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER FOOTINGS, UNDER ROADWAYS, UNDER PAVING, STRUCTURES, ETC.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
25 50 10 20	HUNTER PROS-04-CV-PCN FLOOD BUBBLER, 4IN. POP-UP, FACTORY INSTALLED DRAIN CHECK VALVE.	68
1401 1402 1404 1408	RAIN BIRD RWS-B-C W/ RWS-SOCK 1400 SERIES ROOT WATERING SYSTEM WITH 4IN. DIAMETER X 36IN. LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE. CHECK VALVE AND SAND SOCK. RAIN BIRD BUBBLER OPTION AS INDICATED: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2 GPM.	68

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD XCZ-100-PRB-COM WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1IN. BALL VALVE WITH 1IN. PESB VALVE AND 1IN. PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3 GPM-20 GPM	11
	PIPE TRANSITION POINT IN DRIP BOX PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER IN 6IN. DRIP BOX.	5
	RAIN BIRD MDCFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.	8
0.5 1.0 2.0	RAIN BIRD XBCVT-PC ON A HUNTER IH-RISER SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS. FLOW RATES OF 0.5 GPH=BLUE, 1.0 GPH=BLACK, AND 2.0 GPH=RED. COMES WITH A 1/2IN. FPT INLET X BARB OUTLET. W/ CHECK VALVE. INSTALL WITH A HUNTER IH-RISER-18.	1,507
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-06-18 XFS SUB-SURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY. 0.6 GPH EMITTERS AT 18" O.C. LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. SPECIFY XF INSERT FITTINGS.	1,401 LF

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD PEB-PRS-D 1IN., 1-1/2IN., 2IN. PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.	6
	RAIN BIRD 44-LRC 1IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.	20
	NIBCO T-113 CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4IN. - 3IN.	11
MV	SUPERIOR 3100-PRS 1" NORMALLY OPEN BRASS MASTER VALVE THAT PROVIDES DIRTY WATER PROTECTION. AVAILABLE IN 3/4IN., 1IN., 1-1/4IN., 1-1/2IN., 2IN., 2-1/2IN., AND 3IN.. PRESSURE REGULATION FEATURE.	1
BF	FEBCO 825Y 1" REDUCED PRESSURE BACKFLOW PREVENTER, WITH STRONGBOX POLAR BARRIER BLANKET (PBB-30).	1
C	HUNTER I2C-2400-SS 24 STATION OUTDOOR MODULAR CONTROLLER. WITH TWO ICM-800 MODULE. COMMERCIAL USE. STAINLESS STEEL CABINET.	1
SS	HUNTER WSS WIRELESS SOLAR, RAIN FREEZE SENSOR WITH OUTDOOR INTERFACE, CONNECTS TO HUNTER PCC, PRO-C, AND I-CORE CONTROLLERS, INSTALL AS NOTED. INCLUDES 10 YEAR LITHIUM BATTERY AND RUBBER MODULE COVER, AND GUTTER MOUNT BRACKET.	1
FS	CREATIVE SENSOR TECHNOLOGY FSI-T10-001 1IN. PVC TEE TYPE FLOW SENSOR W/SOCKET ENDS. CUSTOM MOUNTING TEE AND ULTRA-LIGHTWEIGHT IMPELLER ENHANCES LOW FLOW MEASUREMENT. 2 WIRE DIGITAL OUTPUT COMPATIBLE W/ALL IRRIGATION CONTROLLERS. FLOW RANGE: .86 GPM - 52 GPM.	1
EZ	EZ-FLO FERTILIZING SYSTEMS EZ010-FX ONE SYSTEM FEEDS ALL ZONES, DRIP OR SPRINKLER. USED FOR SMALLER COMMERCIAL LANDSCAPES, RESIDENTIAL, HOAFT.S, MODEL HOMES, AND GROWER APPLICATIONS. INSTALL DIRECTLY IN THE IRRIGATION SYSTEM MAIN LINE AFTER THE BACK FLOW PREVENTER. TANK CAPACITY: 9.4 G	1
EN	STRONG BOX SBBC-30CR LOW PROFILE, TUBE AND WIRE CONSTRUCTION SMOOTH TOUCH SURFACE, COLD ROLLED STEEL, BACKFLOW ENCLOSURE. 31.5IN.L, 28IN.H, 17.75IN.W.	1
M	WATER METER 1" CONTRACTOR SHALL VERIFY STATIC PSI PRIOR TO BEGINNING WORK. IF PSI VARIES FROM THAT LISTED BELOW, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.	1
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	14,344 LF
	IRRIGATION MAINLINE: PVC SCHEDULE 40	2,193 LF
	PIPE SLEEVE: PVC SCHEDULE 40	1,055 LF





Scale: 1" = 20'-0"
0 5' 10' 20' 40'

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Mackenzie Flowers

DESIGN STUDIOS
LANDSCAPE DEVELOPMENT, INC
88 N.Oak Street,Suite 1A
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Phone 661-285-1970
Fax 661-285-1969

LANDSCAPE ARCHITECT TECHNICAL COMMITTEE
Signature
NOV. 30, 2025
Renewal Date
AUG. 19, 2025
Date
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A NEW BUILDING FOR:

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

STATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	1737800
DR	TE
PM	TE
	LI.01
	5


GINKGO BILOBA 'AUTUMN GOLD'


LAGERSTROEMIA INDICA X FAURIEI 'TUSCARORA'


PROSOPIS GLANDULOSA 'MAVERICK'


QUERCUS SUBER


X CHITALPA TASHKENTENSIS 'PINK DAWN'


AGAVE AMERICANA


AGAVE BRACTEOSA


CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'


CALLISTEMON VIMINALIS 'LITTLE JOHN'


CHONDROPETALUM TECTORUM


CISTUS PULVERULENTUS


CORDYLINE AUSTRALIS 'RED SENSATION'


DIANELLA REVOLUTA 'LITTLE REV'


HESPERALOE PARVIFLORA


JUNIPERUS HORIZONTALIS 'BLUE CHIP'


LIGUSTRUM JAPONICUM 'TEXANUM'


MUHLENBERGIA DUBIA


MUHLENBERGIA RIGENS


RHAPHIOLEPIS UMBELLATA 'MINOR'


SALVIA MICROPHYLLA 'HOT LIPS'


TEUCRIUM CHAMAEDRYS 'PROSTRATUM'


WESTRINGIA FRUTICOSA 'BLUE GEM'


BIGNONIA CALLISTEGIOIDES

PLANTING NOTES

1. REFER TO PLANTING PLANS, PLAN NOTES, PLANT LEGEND, AND PLANTING DETAILS FOR ADDITIONAL PLANTING INFORMATION. REFER TO IRRIGATION PLANS, NOTES AND DETAILS FOR RELATED LANDSCAPE WORK.
2. NOTIFY OWNER'S REPRESENTATIVE (REP.) 48 HOURS MINIMUM PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT INSPECTION SCHEDULE.
3. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE OF FIELD CONDITIONS THAT VARY FROM THOSE SHOWN ON DRAWINGS AND SEEK CORRECTIONS AND DIRECTIONS BEFORE PROCEEDING WITH WORK. ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY CORRECTIONS DUE TO FAILURE TO REPORT KNOWN DISCREPANCIES.
4. LOCATE AND MARK ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT. PROTECT FROM DAMAGE ALL UTILITIES, AREAS AND STRUCTURES IN AND AROUND LANDSCAPE WORK AREAS. ASSUME FULL RESPONSIBILITY AND EXPENSE FOR REPAIR AND REPLACEMENT OF DAMAGES CAUSED BY CONTRACTOR.
5. LOCATION OF N.I.C. CONSTRUCTION ELEMENTS SUCH AS LIGHTS, SIGNS, VENTS, HYDRANTS, TRANSFORMERS, AND OTHER STRUCTURES OR ELEMENTS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY FIELD CONDITIONS WHETHER SHOWN HEREON OR NOT. WHEN SHOWN ITEMS DO NOT CORRESPOND TO FIELD CONDITIONS, REPORT DISCREPANCIES TO OWNER'S REP. FOR CLARIFICATIONS AND INSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.
6. PLANTING ACCESSORIES & MATERIAL:
   A. TREE TIE: CINCH TIE, BY V.J.T. PRODUCTS, 800-729-1314 OR APPROVED EQUAL.
   B. TREE GUARD: 4" DIA. X 9' HT. PLASTIC TRUNK PROTECTOR, "ARBOR GUARD" BY DEEP ROOT PARTNERS, 800-458-7668 OR APPROVED EQUAL.
   C. FERTILIZER TABLETS: AGRIFORM 20-10-5, THREE 20-GRAM TABLETS OR APPROVED EQUAL FOR 15 GALLON OR LARGER SIZE TREES, TWO 10-GRAM TABLETS FOR 5 GALLON SIZE PLANTS, ONE 10-GRAM TABLET FOR 1 GALLON SIZE.
   D. ROOT BARRIER: ROOT GUARD 18'x20' ROLLS, BY BIO-BARRIER, 800-382-8467 OR APPROVED EQUAL.
   E. MULCH: 3" LAYER DOUBLE GRIND PRODUCTION MULCH IN ALL PLANTER AREAS. SUBMIT SAMPLE FOR APPROVAL.
7. PRE-PLANTING PREPARATION:
   A. PROCEED WITH PLANTING WORK ONLY AFTER IRRIGATION WORK IS COMPLETED, TESTED, AND APPROVED BY OWNER'S REP. PROTECT IRRIGATION SYSTEM FROM DAMAGE.
   B. ROUGH GRADE PLANTING AREAS UNIFORMLY SMOOTH, DEVOID OF DEPRESSIONS, TO CONFORM TO THE GRADING PATTERNS ESTABLISHED BY CIVIL ENGINEERING DRAWINGS. ENSURE POSITIVE WATER REMOVAL TO DRAINAGE ELEMENTS OR STRUCTURES PROVIDED BY OTHERS. NOTIFY OWNER'S REP. WHEN ADDITIONAL AREA DRAINS AND SUBSURFACE DRAINAGE ARE REQUIRED FOR PROPER DRAINAGE OF PLANTING AREAS.
   C. ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING WALLS AND FOUNDATIONS FOR PLANTING AREAS ADJACENT SUCH STRUCTURES.
   D. REMOVE ALL ROCKS GREATER THAN 2" DIAMETER AND ALL DEBRIS AND DELETERIOUS MATERIAL FROM PLANTING AREAS.
   E. PREPARE PLANTING BEDS PER SOIL TEST REPORT'S RECOMMENDATIONS, ADDING AMENDMENTS, FERTILIZER, AND OTHER MATERIAL AS SPECIFIED TO SITE TOP SOIL.
8. PLANTS: ALL PLANTS OF THE SAME SPECIES/CULTIVAR/VARIETY SHALL HAVE MATCHING FORM, FLOWER COLOR, AND SIZE, IN HEALTHY AND THRIVING CONDITION, FREE FROM INJURIES, DISEASES, PESTS AND ROOT-BOUND OR GIRDLING ROOTS. REPLACE RE-JECTED PLANTS WITH MATCHING SPECIES, SIZE AND FORM.
9. LAWNS: INSTALL VARIETY AS SHOWN ON PLANS AND IS SUITED FOR THE LOCAL CLIMATIC CONDITIONS, SUBJECT TO OWNER'S REP.'S APPROVAL. INSTALL PLUGS PER MANUFACTURER'S RECOMMENDATION.
   A. IRRIGATE LAWN THOROUGHLY AFTER INSTALLATION. ADJUST SPRINKLERS AS NECESSARY FOR UNIFORM COVERAGE. CONTINUE REGULAR IRRIGATION UNTIL SOD ROOTS ESTABLISH INTO SOIL AND THROUGHOUT MAINTENANCE PERIOD.
9. PLANTING:
   A. IRRIGATE PLANTING AREAS TO BRING TOP 6" OF SOIL TO FIELD CAPACITY. ALLOW SOIL TO DRAIN. DO NOT WORK SOIL UNTIL IT RETURNS TO A MOIST FRIABLE CONDITION. TREE EXCAVATIONS MAY REQUIRE ADDITIONAL IRRIGATION. FLOOD TREE PITS AS REQUIRED TO MOISTEN SUBGRADE.
   B. PLACE PLANTS IN THEIR CONTAINERS AT THE LOCATIONS PER PLANS FOR APPROVAL BY OWNER'S REP. MAKE MINOR ADJUSTMENTS AS REQUIRED BY FIELD CONDITIONS AND TO ALLOW OPTIMAL IRRIGATION COVERAGE.
   C. PLANT QUANTITIES GIVEN ON PLANT LEGEND ARE FOR GENERAL GUIDANCE ONLY. PROVIDE THE SPECIFIED PLANT SPECIES IN THE QUANTITIES AT THE REQUIRED SPACING TO ACHIEVE THE DESIGN EFFECT/INTENT SHOWN ON THE PLANS.
   D. PLANT GROUND COVER AND SHRUB MASSES ACCORDING TO TRIANGULATED SPACING DIAGRAM UNLESS OTHERWISE SHOWN OR NOTED.
   E. FOR TREES WITHIN 5 FEET OF PAVEMENT AND SLAB FOUNDATIONS, PRIOR TO TREE PLACEMENT, INSTALL ROOT BARRIER FABRIC WITH ROOT INHIBITING PELLETS 18" DEEP ALL AROUND THE PLANT PIT, WITH 4" MINIMUM END OVERLAP.
   F. PLANT TREES, SHRUBS, VINES, AND GROUND COVERS AS SHOWN ON DETAILS.
   G. INSTALL SPECIFIED BARK MULCH IN SHRUB BEDS, 3" DEPTH LAYER.
11. AT THE TIME A FINAL SITE INSPECTION IS CONDUCTED, IT IS EXPECTED THAT THE PLANTS WILL MATCH THE SPECIES IDENTIFIED AND BE INSTALLED IN THE LOCATIONS CONSISTENT WITH THE APPROVED LANDSCAPE PLAN. CHANGES MADE WITHOUT PRIOR APPROVAL OF THE PLANNING STAFF MAY RESULT IN THE REMOVAL AND/OR RELOCATION OF INSTALLED PLANT MATERIALS AND DELAYS IN OBTAINING BUILDING OCCUPANCY.

TREE SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WUCOLS	QTY	REMARKS
TREES						
	GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD MAIDENHAIR TREE	24" BOX	MODERATE	6	
	LAGERSTROEMIA INDICA X FAURIEI 'TUSCARORA'	TUSCARORA CRAPE MYRTLE	24" BOX	LOW	19	
	PROSOPIS GLANDULOSA 'MAVERICK'	MAVERICK THORNLESS HONEY MESQUITE	24" BOX	LOW	11	
	QUERCUS SUBER	CORK OAK	24" BOX	LOW	7	
	X CHITALPA TASHKENTENSIS 'PINK DAWN'	PINK DAWN CHITALPA	24" BOX	LOW	25	

SHRUB SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	CONT	WUCOLS	QTY	REMARKS
SHRUBS						
	AGAVE AMERICANA	CENTURY PLANT	15 GAL	LOW	14	
	AGAVE BRACTEOSA	SPIDER AGAVE	5 GAL	LOW	99	
	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	5 GAL	LOW	84	
	CALLISTEMON VIMINALIS 'LITTLE JOHN'	LITTLE JOHN WEEPING BOTTLEBRUSH	5 GAL	LOW	80	
	CHONDROPETALUM TECTORUM	SMALL CAPE RUSH	5 GAL	LOW	63	
	CISTUS PULVERULENTUS	ROCKROSE	5 GAL	LOW	73	
	DIANELLA REVOLUTA `DR5000`	LITTLE REV™ FLAX LILY	1 GAL	LOW	104	
	HESPERALOE PARVIFLORA	RED YUCCA	5 GAL	LOW	122	
	JUNIPERUS HORIZONTALIS 'BLUE CHIP'	BLUE CHIP CREEPING JUNIPER	5 GAL	LOW	59	
	LIGUSTRUM JAPONICUM 'TEXANUM'	TEXAS JAPANESE PRIVET	5 GAL	LOW	84	
	MUHLENBERGIA DUBIA	PINE MUHLY	5 GAL	LOW	189	
	MUHLENBERGIA RIGENS	DEER GRASS	5 GAL	LOW	143	
	RHAPHIOLEPIS UMBELLATA 'MINOR'	DWARF YEDDA HAWTHORN	5 GAL	LOW	152	
	SALVIA MICROPHYLLA 'HOT LIPS'	HOT LIPS GRAHAM SAGE	5 GAL	LOW	82	
	TEUCRIUM CHAMAEDRYS 'PROSTRATUM'	PROSTRATE GERMANDER	5 GAL	LOW	270	
	WESTRINGIA FRUTICOSA 'WES03'	BLUE GEM COAST ROSEMARY	5 GAL	LOW	120	
VINES						
	BIGNONIA CALLISTEGIOIDES	LAVENDER TRUMPET VINE	5 GAL	MODERATE	40	

SOIL AMMENDMENT NOTES

SOIL PREPARATION PER 1,000 S.F.
3 CU. YDS. NITROLIZED WOOD SHAVINGS OR EQUAL
15 LBS. 15-15-15 FERTILIZER
ROTO-TILL TO DEPTH OF 8" (FOR SLOPES 3:1 AND LESS)

BACKFILL MIX
6 PARTS OF NATIVE ON-SITE SOIL
4 PARTS OF NITROLIZED SHAVINGS OR EQUAL
18 LBS. OF GRO-POWER PLUS PER CUBIC YARD OF MIX

GROW-POWER PLANTING TABLETS
ONE (1) per each 1-GALLON PLANT
TWO (2) per each 5-GALLON PLANT
THREE (3) per each 15-GALLON PLANT
FIVE (5) per each 24"-BOX PLANT

FOR BID PURPOSES ONLY PENDING SOILS TEST AND RECOMMENDATIONS.
SOILS TEST PER CONTRACTOR

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DESIGN STUDIOS
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88 N Oak Street,Suite 1A
Ventura, California 93001
Phone 661-285-1970
Fax 661-285-1969

LICENSED LANDSCAPE ARCHITECT
CHRISTOPHER A. TESTA
No. 5854
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NOV. 30, 2025
Renewal Date
AUG. 19, 2025
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KERN COUNTY SPECIAL WASTE FACILITY

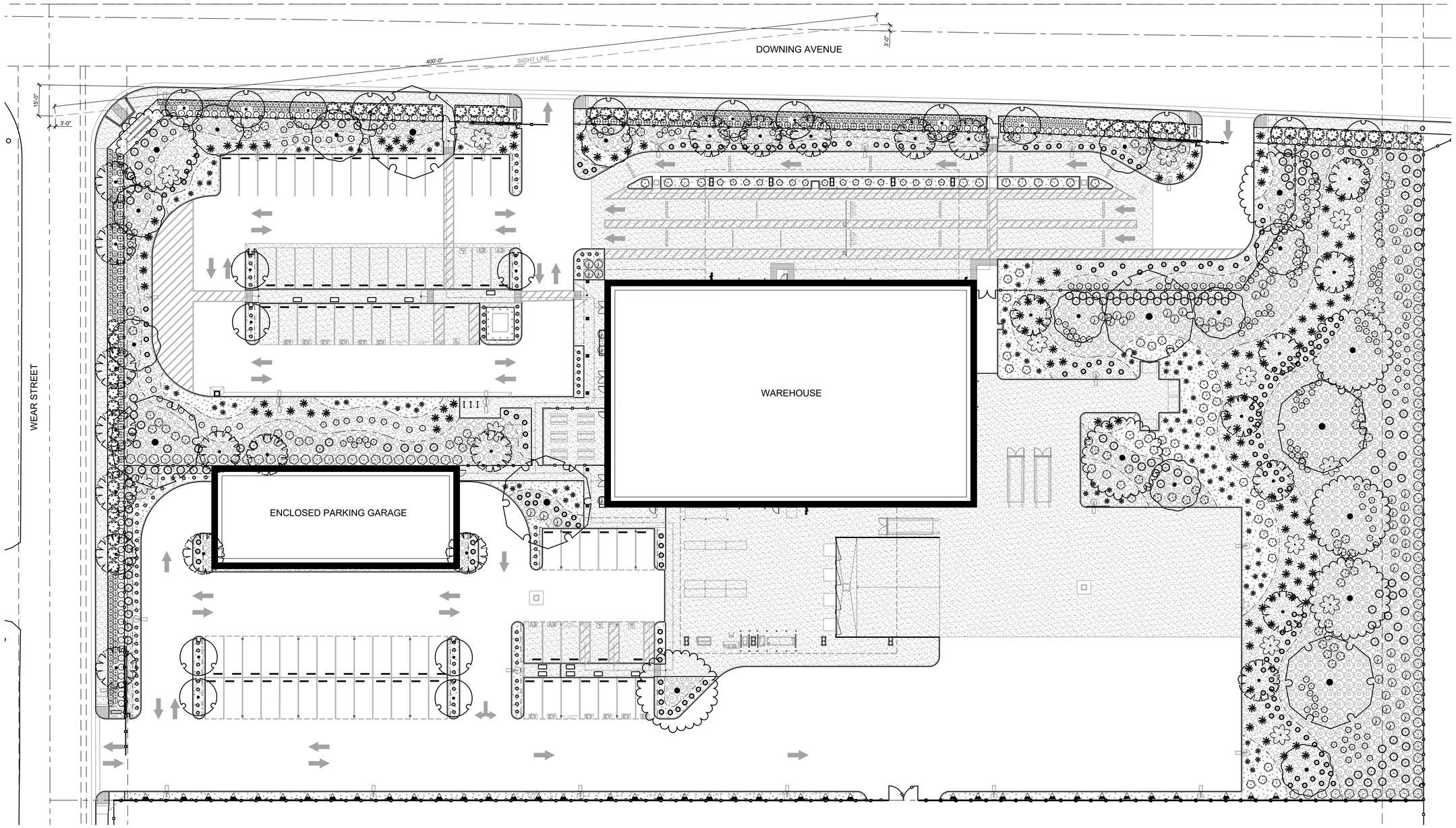
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BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	1737800
DP	TE
PM	TE
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TREE SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WUCOLS	QTY	REMARKS
TREES						
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	DIANELLA REVOLUTA 'DR5000'	LITTLE REV™ FLAX LILY	1 GAL	LOW	104	
	HESPERALOE PARVIFLORA	RED YUCCA	5 GAL	LOW	122	
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VINES						
	BIGNONIA CALLISTEGIOIDES	LAVENDER TRUMPET VINE	5 GAL	MODERATE	40	

NORTH

Scale: 1" = 20'-0"

0 5' 10' 20' 40'

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LICENSED LANDSCAPE ARCHITECT
Signature
NOV. 30, 2025
Renewal Date
AUG. 19, 2025
Date
STATE OF CALIFORNIA
APPROVED
SEE MEMO
2/2/2026, 4:05:25 PM
K202408865
Dennis McNamara

811 Know what's below. Call before you dig.

A NEW BUILDING FOR:

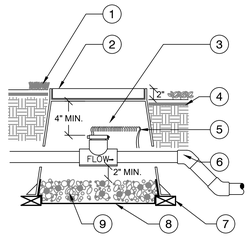
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

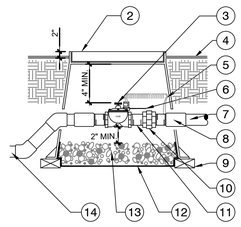
JOB	1737800
DRN	TE
CHK	TE
	LP.01
	7



1. FINISHED GRADE IN TURF AREAS
2. PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS STEEL BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "FS" ONTO LID.
3. FLOW SENSOR, SEE LEGEND FOR SPEC.
4. FINISHED GRADE IN SHRUB AREAS
5. 24" WIRE LOOP
6. PVC MAINLINE PIPE PER SPEC.
7. BRICK SUPPORTS
8. LANDSCAPE FABRIC
9. 3/4" ROCK, (2) CUBIC FT.

NOTE:
1. INSTALL FLOW SENSOR AS PER THE MANUFACTURER'S RECOMMENDATIONS, WIRE TO IRRIGATION CONTROLLER. USE 45° ELLS TO ACHIEVE MAINLINE DEPTH ON THE DOWN-STREAM SIDE OF THE FLOW SENSOR.

D SUBMETER/FLOW SENSOR
N.T.S. P-KE2-IRR-15



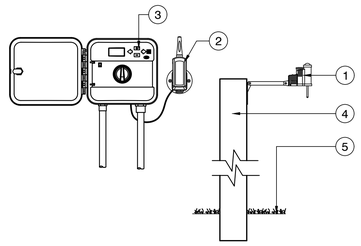
1. FINISHED GRADE IN TURF AREAS
2. PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS STEEL BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "MV" ONTO LID
3. MASTER CONTROL VALVE, SEE LEGEND FOR SPEC
4. FINISHED GRADE
5. 24" WIRE LOOP WITH WATER PROOF WIRE CONNECTORS. USE WHITE AND RED COLOR WIRES WITH STRIPE
6. VALVE ID TAGS
7. PRESSURE MAINLINE TO FLOW SENSOR
8. PVC SCH 40 FEMALE ADAPTER, (2) REQUIRED
9. BRICK SUPPORTS
11. SCH. 80 PVC NIPPLE
12. LANDSCAPE FABRIC
13. 3/4" ROCK, (2) CUBIC FT.
14. PVC MAINLINE PIPE FROM BACKFLOW PER SPECS.

NOTES:
1. USE 45° ELLS TO ACHIEVE MAINLINE DEPTH FROM UP-STREAM SIDE OF THE MASTER VALVE.

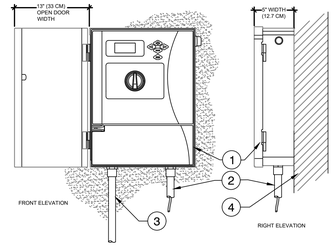
C MASTER VALVE
N.T.S. P-KE2-IRR-14

1. SOLAR SYNC WIRELESS SENSOR
2. SOLAR SYNC WIRELESS RECEIVER
3. SOLAR SYNC COMPATIBLE CONTROLLER
4. POST OR SUITABLE MOUNTING SURFACE
5. FINISH GRADE

NOTES:
1. INSTALL SOLAR SYNC PER MANUFACTURER'S SPECIFICATIONS

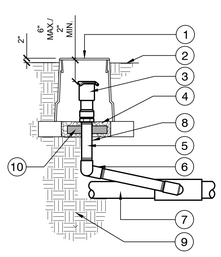


B WIRELESS SOLAR SYNC
N.T.S. P-KE2-IRR-87



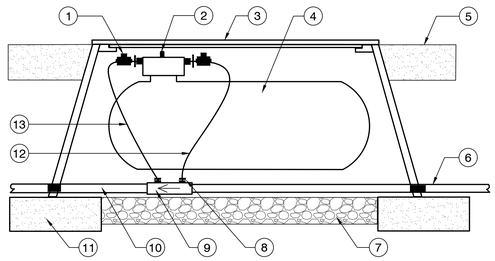
1. IRRIGATION CONTROLLER (12C-2400-SS) PER PLAN
2. IRRIGATION CONTROL WIRE IN CONDUIT SIZE AND TYPE PER LOCAL CODES
3. ELECTRICAL SUPPLY CONDUIT CONNECT TO POWER SOURCE, J BOX INSIDE CONTROLLER
4. ADJACENT SURFACE TO MOUNT CONTROLLER PER PLAN
   NOTE:
   MOUNT CONTROLLER LCD SCREEN AT EYE LEVEL, CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC POWER SOURCE

A CONTROLLER
N.T.S. P-KE2-IRR-97



1. 10" ROUND PLASTIC VALVE BOX
2. FINISH GRADE
3. QUICK COUPLING VALVE WITH LOCKABLE CAP, REFER TO IRRIGATION SCHEDULE
4. 3/4" GRAVEL, 1 CUBIC FOOT
5. SCHEDULE 80 NIPPLE
6. SCHEDULE 40 SWING JOINT
7. PVC MAINLINE
8. STAINLESS STEEL SCREW CLAMP
9. #6 X 18" REBAR
10. 1"x8"x8" REDWOOD DEADMAN WITH HOLE DRILLED FOR NIPPLE

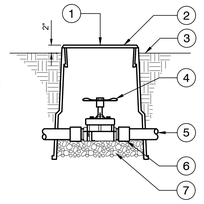
H QUICK COUPLER
1 1/2" = 1'-0" P-KE2-IRR-05



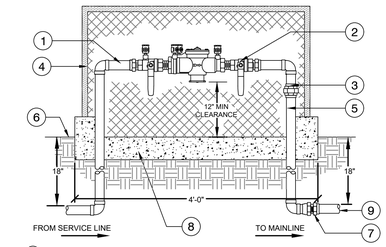
1. EZ-FLO SHUT OFF VALVE
2. PROPORTIONING CAP WITH FEED ADJUSTMENT KNOB
3. JUMBO VALVE BOX AND COVER, HEAT BRAND "EZ" INTO LID
4. EZ-FLO FERTILIZING SYSTEM. CHECK IRRIGATION SCHEDULE FOR MODEL
5. FINISH GRADE
6. PVC MAINLINE
7. PEA GRAVEL
8. 1/4" TUBING CLAMP
9. EZ COUPLING CONNECTOR-INSTALL ACCORDING TO WATER FLOW DIRECTION ARROW
10. PVC MAINLINE TO VALVE MANIFOLD
11. APPROVED BACKFILL
12. WATER IN-CONNECT BLACK TUBING TO EX COUPLING CONNECTOR
13. FERTILIZER OUT-CONNECT CLEAR TUBE TO EZ COUPLING CONNECTOR

G EZ-FLOW FERTILIZING SYSTEM
1 1/2" = 1'-0" P-KE2-IRR-72

1. INCISE 'CV' INTO LID 2" HT. TEXT. TYPICAL 'GV' BOXES.
2. 6" ROUND VALVE BOX
3. FINISH GRADE
4. NIBCO T-113 OR APPROVED EQUAL BRASS GATE VALVE FOR APPLICAETOIN. SEE GATE VALVE SPECIFICATIONS.
5. PVC MAINLINE - PLACE VALVE AT MAINLINE DEPTH.
6. PVC MALE APDAPTERS
7. 1 CUBIC FOOT OF PEA GRAVEL

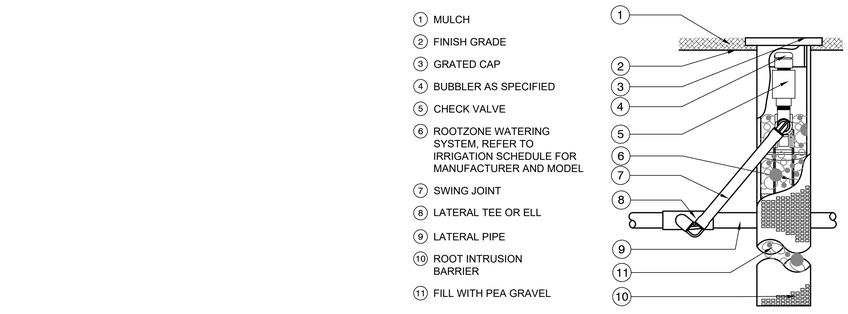


F GATE VALVE
1 1/2" = 1'-0" P-KE2-IRR-10



1. BRASS NIPPLE
2. BALL VALVES - INCLUDED IN BACKFLOW ASSEMBLY FROM MANUFACTURER
3. BRASS UNION (1)
4. ENCLOSURE - PER LEGEND
5. BRASS RISER
6. FINISH GRADE
7. SCH. 80 PVC ADAPTER
8. 6" THICK CONCRETE FOOTING 3'X4' PAD
9. PVC MAINLINE PER LEGEND

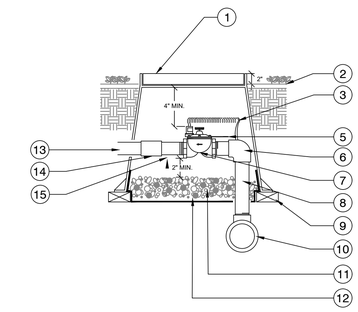
E STD. BACKFLOW
N.T.S. P-KE2-IRR-26



1. MULCH
2. FINISH GRADE
3. GRATED CAP
4. BUBBLER AS SPECIFIED
5. CHECK VALVE
6. ROOTZONE WATERING SYSTEM, REFER TO IRRIGATION SCHEDULE FOR MANUFACTURER AND MODEL
7. SWING JOINT
8. LATERAL TEE OR ELL
9. LATERAL PIPE
10. ROOT INTRUSION BARRIER
11. FILL WITH PEA GRAVEL

NOTES:
1. BUBBLER TO BE PLACED ROOTBALL ADJACENT AND ON OPPOSITE SIDES OF ROOTBALL

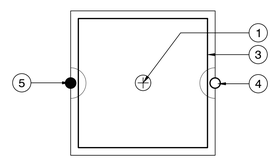
K TREE ROOT WATERING BUBBLER
N.T.S. P-KE2-IRR-32



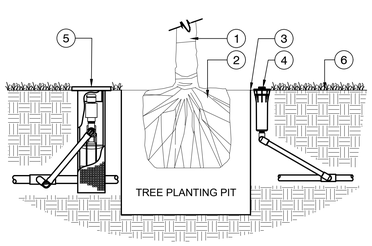
1. PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND 'RCV' AND CONTROL STATION # ONTO LID.
2. FINISHED GRADE IN SHRUB AREAS
3. 24" WIRE LOOP NON-POTABLE TAG VALVE ID TAG
4. NOT USED
5. VALVE ID TAG
6. SLIP BY SLIP EL SCH 80 PVC
7. CONTROL VALVE
8. THREAD BY SLIP SCH 80 PVC NIPPLE TYP.
9. BRICK SUPPORTS (4 REQ.)
10. SCH.80 PVC IRRIGATION MAINLINE FITTING
11. 3/4" CRUSHED GRAVEL TWO CUBIC FEET
12. LANDSCAPE FABRIC
13. LATERAL
14. PVC SCH 40, SLIP BY SLIP COUPLING ADAPTER, 2 REQUIRED
15. SCH 80 NIPPLE THREAD BY SLIP, 2 REQUIRED

J REMOTE CONTROL VALVE
N.T.S. P-KE2-IRR-60

1. TREE, RE: LT SERIES
2. TREE ROOTBALL
3. EDGE OF TREE PLANT PIT. SET BUBBLER AT EDGE OF PLANTING PIT
4. TREE BUBBLER, RE: DETAIL L/LD.01
5. TREE ROOT WATERING BUBBLER, RE: DETAIL K/LD.01
6. FINISH GRADE



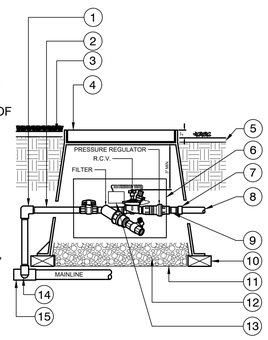
PLAN VIEW



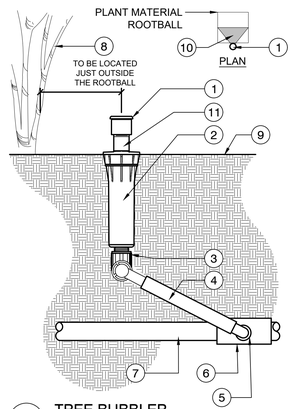
SECTION

I TREE BUBBLER IRRIGATION LAYOUT
N.T.S. P-KE2-IRR-35

1. PVC SCH 40 ELL
2. PVC SCH 80 NIPPLE (TYPICAL, LENTH AS REQUIRED)
3. FINISH GRADE WITHIN TURF AREAS
4. PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT, NUT, & WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "RCV" AND STATION # ONTO LID.
5. FINISH GRADE IN SHRUB AREAS
6. CONTROLL ZONE KIT: PER LEGEND.
7. PVC SCH 40 FEMALE ADAPTER
8. PVC LATERAL TO DRIP SYSTEM
9. PVC SCH 80 NIPPLE, CLOSE (1 OF 3)
10. BRICK SUPPORT
11. LANDSCAPE FABRIC
12. 3/4" 2 CUBIC FT. 3" MIN. DEPTH
13. CHRISTY'S I.D. TAG
14. SCH80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
15. PVC SCH 40 TEE OR ELL



M DRIP ZONE R.C.V. KIT
N.T.S. P-KE2-IRR-27



1. BUBBLER, REFER TO IRRIGATION SCHEDULE
2. POP-SPRAY BODY, REFER TO IRRIGATION SCHEDULE
3. 1/2" 90° ELBOW
4. 1/2" SWING ASSEMBLY
5. 1/2" MALE NPT INLET
6. PVC SCH. 40 TEE OR ELL
7. LATERAL PIPE
8. PLANT MATERIAL
9. FINISH GRADE
10. BUBBLER SPRAY PATTERN, DIRECTED TOWARDS PLANT ROOTBALL
11. RAIN BIRD PA-80 PLASTIC ADAPTER

L TREE BUBBLER
6" = 1'-0" P-KE2-IRR-28

Skarphol/Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
(661) 394-2741
skarpholfrank.com

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KERN COUNTY APPROVED BUILDING DIVISION INSPECTION
10/3/2025, 1:48:35 PM
K202408865
Mackenzie Flowers

DESIGN STUDIOS LANDSCAPE DEVELOPMENT, INC
88 N.Oak Street,Suite 1A
Ventura, California 93001
Phone 661-285-1970
Fax 661-285-1969

LANDSCAPE ARCHITECT TECHNICAL COMMITTEE — LICENSED LANDSCAPE ARCHITECT — STATE OF CALIFORNIA
Signature
NOV. 30, 2025 Renewal Date
AUG. 19, 2025 Date
APPROVED PER CGBSH REQUIREMENTS (MC) SEE MEMO
2/2/2026, 4:05:25 PM
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Dennis McNamara

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A NEW BUILDING FOR:

KERN COUNTY SPECIAL WASTE FACILITY

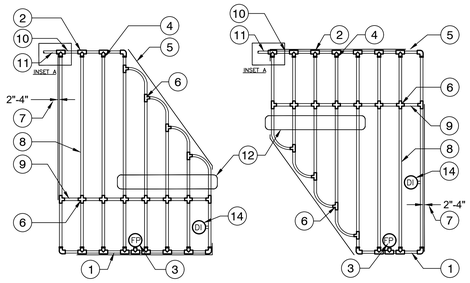
SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

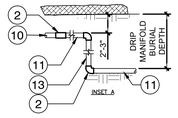
STATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	1737800
DR	TE
PM	TE

LD.01
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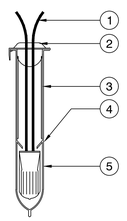
XFS Dripline Maximum Lateral Lengths (Feet)						
Inlet Pressure psi	12" Spacing		18" Spacing		24" Spacing	
	Nominal Flow (gph)		Nominal Flow (gph)		Nominal Flow (gph)	
	0.6	0.9	0.6	0.9	0.6	0.9
15	273	155	314	203	424	322
20	318	169	353	264	508	368
30	360	230	413	350	586	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	596	456	780	514

1. PVC EXHAUST HEADER
2. PVC SCH 40 TEE OR EL (TYP.)
3. FLUSH POINT (TYP.) SEE DETAIL F/LD.02
4. BARB X MALE FITTING: RAINBIRDXFF-MA FITTING (TYP.)
5. PERIMETER OF AREA
6. BARB X BARB INSERT TEE OR CROSS: RAIN BIRD XFF-TEE OR XFD-CROSS (TYP.) INSET 'A'
7. PERIMETER OF DRIPLINE PIPE TO BE INSTALLED 2'-4" FROM PERIMETER OF AREA
8. SUB-SURFACE DRIPLINE, REFER TO IRRIGATION SCHEDULE FOR MANUFACTURER AND MODEL
9. RAIN BIRD XF SERIES BLANK TUBING
10. PVC SUPPLY HEADER
11. PVC SUPPLY PIPE FROM CONTROL ZONE KIT
12. TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE
13. PVC SCH 40 RISER PIPE
14. DRIPLINE OPERATION INDICATOR, REFER TO DETAIL G/LD.02

NOTES:
1. DISTANCE BETWEEN LATERAL ROW AND EMITTER SPACING TO BE BASED ON SOIL TYPE. PLANT MATERIALS AND CHANGES IN ELEVATION. SEE RAIN BIRD XFS DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
3. AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA
4. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING

C IRREGULAR SUB-SURFACE DIRPLINE LAYOUT

NTS P-KE2-IRR-12



1. LOW VOLTAGE WIRES, 3 MAX.
2. WIRES PASS THROUGH GROOVES IN TUBE LID TO CLOSE
3. POLY TUBE PRE-FILLED WITH WATERPROOF GEL
4. LOCK TABS PREVENT WIRE REMOVAL ONCE CONNECTOR IS INSERTED
5. SCOTCHLOK ELECTRICAL SPRING CONNECTOR. WIRES SHALL BE PRE-STRIPPED OF 1/2" OF THE INSULATION PRIOR TO INSERTION INTO THE CONNECTOR. TWIST CONNECTOR ONTO WIRES TO SEAT FIRMLY.

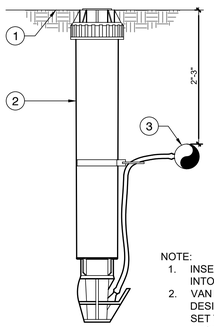
   SCOTCHLOK CONNECTOR AND WIRES INSERTED INTO TUBE UNTIL THE CONNECTOR PASSES LOCK TABS

NOTES:

1. WIRE CONNECTOR SHALL BE A 3M DBY-6 DIRECT BURY SPLICE KIT (U.L. APPROVED)
2. KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL
3. DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2-3 #14 OR 2 #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION

H WIRE CONNECTORS

3/4" = 1'-0" P-KE2-IRR-01

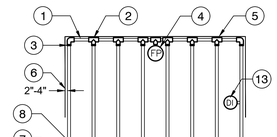


1. FINISH GRADE/TURF
2. OPERATION INDICATOR. RAINBIRD MODEL: OPERIND
3. SUB-SURFACE DRIPLINE, REFER TO IRRIGATION SCHEDULE FOR MANUFACTURER AND MODEL

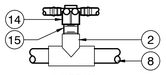
NOTE:
1. INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
2. VAN NOZZLE MAY BE SET TO CLOSED, OR IF DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO 1/4 PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.

G SUB-SURFACE DRIPLINE OPERATION INDICATOR

NTS P-KE2-IRR-13



1. PVC EXHAUST HEADER.
2. PVC SCH. 40 TEE OR EL (TYP.)
3. BARB X MALE FITTING: RAINBIRD XFF-MA FITTING (TYP.)
4. FLUSH POINT (TYP.) SEE DETAIL F/LD.02
5. PERIMETER OF AREA
6. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA.
7. PVC SUPPLY PIPE FROM CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
8. PVC SUPPLY MANIFOLD
9. CONNECTION FROM SUPPLY MAIFOLD TO DRIPLINE (TYP.) INSET 'A'
10. SUB-SURFACE DRIPLINE, REFER TO IRRIGATION SCHEDULE FOR MANUFACTURER AND MODEL.
11. RAINBIRD XF SERIES BLANK TUBING
12. BARB X BARB INSERT TEE OR CROSS: RAIN BIRD XFF-TEE OR RAIN BIRD XFD-CROSS (TYP.)
13. DRIPLINE OPERATION INDICATOR, SEE DETAIL G/LD.02
14. BARB X FEMALE FITTING: RAIN BIRD XFD-TFA-075 FITTING
15. 3/4" PVC NIPPLE, LENGTH AS NECESSARY

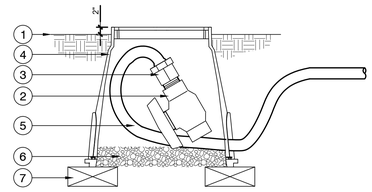


NOTES:
1. DISTANCE BETWEEN ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN MATERIAL. SEE RAIN BIRD XF-SDI DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACING.
2. LENGTH OF LONGEST DRIPINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
3. AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
4. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.
5. BELOW GRADE PIPE WITHIN THE LANDFILL CAP SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ENVIRONMENTAL COORDINATION DRAWINGS.

XFS Dripline Maximum Lateral Lengths (Feet)						
Inlet Pressure psi	12" Spacing		18" Spacing		24" Spacing	
	Nominal Flow (gph)		Nominal Flow (gph)		Nominal Flow (gph)	
	0.6	0.9	0.6	0.9	0.6	0.9
15	273	155	314	203	424	322
20	318	169	353	264	508	368
30	360	230	413	350	586	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	596	456	780	514

B SUB-SURFACE DRIPLINE CENTER FEED LAYOUT

NTS P-KE2-IRR-08

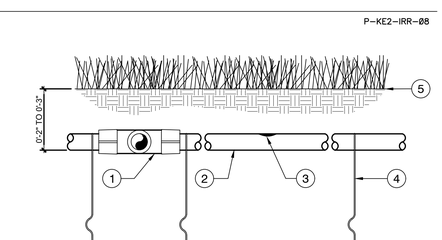


1. FINISH GRADE
2. FLUSH VALVE- 3/4" SCH. 40 BALL VALVE
3. 3/4" SCH. 40 PVC MALE ADAPTER
4. SUBTERRANEAN EMITTER BOX, 6" ROUND.
5. SUB-SURFACE DRIPLINE- REFER TO IRRIGATION SCHEDULE FOR MANUFACTURER AND MODEL
6. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
7. BRICK (1 OF 2)

NOTE:
1. ALLOW A MINIMUM OF 6" OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

F SUB-SURFACE DRIPLINE FLUSH POINT

NTS P-KE2-IRR-04

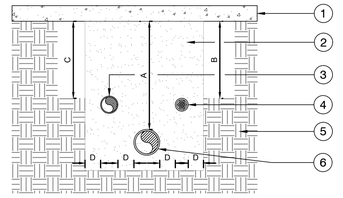


NOTES:
1. PLACE TIE DOWN STAKES EVERY THEE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TREES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
3. INSERTION PLOW AND TRENCHED INSTALLATIONS DO NOT REQUIRE TIE DOWN STAKES.
4. BELOW GRADE PIPE WITHIN THE LANDFILL CAP SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ENVIRONMENTAL COORDINATION DRAWINGS.

1. EASY FIT COMPRESSION TEE: RAIN BIRD MDCFTEE
2. SUB-SURFACE DRIPLINE: REFER TO IRRIGATION SCHEDULE FOR MANUFACTURER AND MODEL
3. INLINE DRIP EMITTER
4. TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (TYP.)
5. TURF/FINISH GRADE OR SHRUB BED WITH MULCH

E SUB-SURFACE DRIPLINE BURIAL

NTS P-KE2-IRR-03

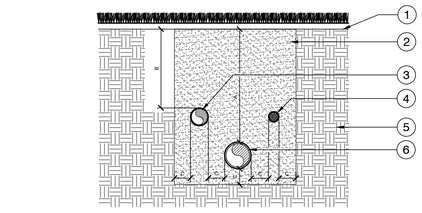


DIMENSION	A	B	C	D
¾" TO 4" IN SIZE	36"	24"	24"	4"

1. PAVING
2. SAND BACKFILL
3. LATERAL LINES IN PVC SCHEDULE 40 SLEEVE
4. CONTROL WIRE IN PVC SCHEDULE 40 CONDUIT SLEEVE
5. UNDISTURBED SOIL
6. PRESSURE MAINLINE IN SCHEDULE 40 SLEEVE

J SLEEVE INSTALLATION

N.T.S. P-KE2-IRR-22

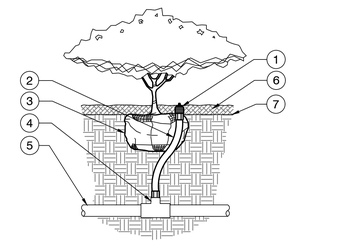


DIMENSION	A	B	C
1/2" TO 2-1/2" IN SIZE	18"	12"	4"
3" TO 6" IN SIZE	24"		4"

1. FINISH GRADE
2. CLEAN COMPACTED BACKFILL
3. LATERAL PIPE, SEE SPECS.
4. CONTROL WIRES, SEE SPECS. MAINTAIN 6"" MIN. BETWEEN MAINLINE AND WIRE BUNDLE. CONDUIT THROUGHOUT.
5. UNDISTURBED SOIL
6. PRESSURE MAINLINE, SEE SPECS.

D PIPE TRANSITION POINT

N.T.S. P-KE2-IRR-30



1. IRRIGATION EMITTER, REFER TO IRRIGATION SCHEDULE FOR MANUFACTURER & MODEL.
2. IRRIGATION HOSE, REFER TO IRRIGATION SCHEDULE FOR MANUFACTURER & MODEL.
3. SHRUB ROOT BALL
4. 1/2" FPT CONNECTION FROM LATERAL PIPE.
5. LATERAL PIPE AS PER PLAN.
6. MULCH, REFER TO PLANTING SPECIFICATIONS FOR DEPTH.
7. FINISHED GRADE.

A SUBSURFACE TO SURFACE SHRUB IRRIGATION

NTS P-KE2-IRR-02

1. TYPICAL 1/2" DRIP TUBING
2. 6" ROUND VALVE BOX
3. COMPRESSION TEE
4. 3/4" FPT X 1/2" DRIP TUBING ADAPTER
5. 3" THICK LAYER OF WASHED GRAVEL. DO NOT EXTEND GRAVEL INTO BOX
6. 3/4" SCH 80 NIPPLE AS REQUIRED.
7. IRRIGATION LATERAL LINE, REFER TO IRRIGATION SCHEDULE
8. COMMON BRICK SUPPORT (3 REQUIRED)

Skarphol / Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
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skarpholfrank.com

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LANDSCAPE DEVELOPMENT, INC
88 N.Oak Street,Suite 1A
Ventura, California 93001
Phone 661-285-1970
Fax 661-285-1969

LANDSCAPE ARCHITECT TECHNICAL COMMITTEE
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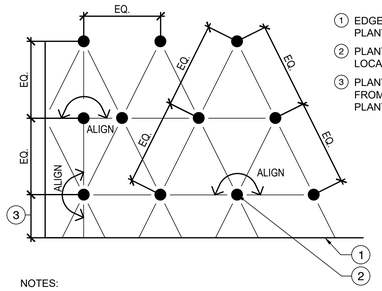
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB 1737800	LD.02
DR TE	
CH TE	
	9



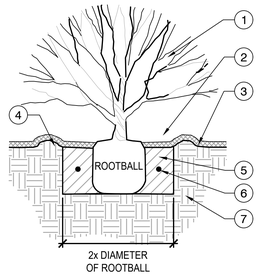
1. EDGE OF PLANTER
2. PLANT LOCATION
3. PLANT SPACING FROM EDGE OF PLANTER

NOTES:

1. SEE PLANTING SCHEDULE FOR SPACING OF ALL SHRUBS AND GROUNDCOVERS
2. ALL SHRUBS/GROUNDCOVER TO BE PLANTED AT EQUAL SPACING (TRIANGULAR) UNLESS OTHERWISE INDICATED ON PLANS.

C TRIANGULAR SHRUB/ G.C. SPACING

1" = 1" P-KE2-PLA-03



1. CONTAINER PLANT (CENTER IN PIT)
2. 3" HIGH WATERING BASIN. SHALL BE NO LARGER THAN ROOTBALL. RAKE OUT AS DIRECTED.
3. MULCH LAYER PER PLANTING SPECIFICATIONS (KEEP CLEAR OF TRUNK)
4. FINISH GRADE
5. AMENDED BACKFILL SOIL PER AGRONOMIC SOILS REPORT RECOMMENDATIONS
6. PLANT FERTILIZER TABLETS PER AGRONOMIC SOILS REPORT RECOMMENDATIONS
7. UNDISTURBED SOIL

NOTES

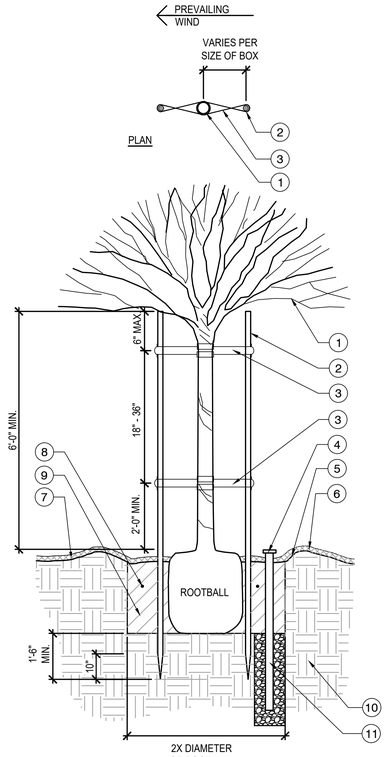
1. SET TOP OF ROOTBALL 1/2" ABOVE FINISH GRADE AND SLOPE FOR DRAINAGE

B SHRUB & GROUNDCOVER PLANTING

1" = 1'-0" P-KE2-PLA-02

D TYPICAL ROOT BARRIER CONDITION

N.T.S. P-KE2-PLA-13



1. TREE PLANTING PER PLAN (CENTER IN PIT)
2. LODGEPOLE PINE WOOD STAKE, 3" DIA. X 12' (UP TO 36" BOX) WITH A TEN-INCH TAPERED DRIVING POINT AND CHAMFERED TOP, UNTREATED, NATURAL WOOD COLOR. PLACE STAKES PARALLEL TO PREVAILING WIND OR AS DIRECTED BY LANDSCAPE ARCHITECT. VERIFY WITH LANDSCAPE ARCHITECT PRIOR TO ADJUSTING.
3. CINCH TIES - 32" BLACK CINCH TYPE, TWO DOUBLE CINCH TIES PER TREE (4 CINCH TIES TOTAL)
4. 4" NDS BLACK ROUND GRATE (PART NO. 11) 1" ABOVE FINISH GRADE
5. 3" HIGH WATERING BASIN. SHALL BE NO LARGER THAN ROOTBALL. RAKE OUT AS DIRECTED.
6. MULCH LAYER PER PLANTING SPECIFICATIONS (KEEP CLEAR OF TRUNK)
7. FINISH GRADE
8. PLANT FERTILIZER TABLETS PER AGRONOMIC SOILS REPORT RECOMMENDATIONS
9. AMENDED BACKFILL PER AGRONOMIC SOILS REPORT RECOMMENDATIONS
10. UNDISTURBED SOIL - SCARIFY SIDES AND BOTTOM OF PIT
11. 12" DIA. X 4'-0" DEEP AUGER HOLE. INSTALL 4" DIA. ASTM D3034, SDR-35 PVC PERFORATED PIPE AND BACKFILL WITH 3/4" AGGREGATE AND FILTER FABRIC SOCK.
12. TREE GRATE, REFER TO CONSTRUCTION SCHEDULE

NOTES

1. TOP OF ROOTBALL SHALL BE MAINTAINED ABOVE ADJACENT FINISH GRADE - 1" ABOVE FOR 5-15 GAL, 3" ABOVE FOR 24" BOX AND LARGER. SLOPE FOR DRAINAGE.
2. PLANT PIT SHALL BE A MINIMUM OF 18" LARGER THAN BOX SIZE ON ALL SIDES AND NO DEEPER THAN BOX DEPTH.
3. FOOT TAMP BACKFILL LIGHTLY IN 6"-10" LIFTS.
4. MAINTAIN A MIN. 2'-6" DIAMETER BARK MULCH AREA AROUND TRUNK IN TURF AND REMOVE WATERING BASIN.
5. INSTALL 'ARBOR GUARD' TREE TRUNK PROTECTORS ON ALL TREES IN TURF AREAS

PLAN: STAKING AT STREET TREE

A TREE PLANTING & DOUBLE STAKING

1/2" = 1'-0" P-KE2-PLA-12

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Ventura, California 93001
Phone 661-285-1970
Fax 661-285-1969

LANDSCAPE ARCHITECT TECHNICAL COMMITTEE
Signature
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AUG. 19, 2026
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SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB 1737800	LD.03
DR TE	
CH TE	
	10

SOILS ANALYSIS DEFERRED AS PART OF THE CERTIFICATE OF COMPLETION PER SOIL MANAGEMENT REPORT GUIDELINES (SEC. 492.5) #3

SOILS ANALYSIS DEFERRED AS PART OF THE CERTIFICATE OF COMPLETION PER SOIL MANAGEMENT REPORT GUIDELINES (SEC. 492.5) #3

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Skarphol / Frank
Associates
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DESIGN STUDIOS
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88 N.Oak Street,Suite 1A
Ventura, California 93001
Phone 661-295-1970
Fax 661-295-1969

REGISTERED LANDSCAPE ARCHITECT
PAUL DAVID SKARPHOL
No. LA 5144
Signature
NOV. 30, 2025
Renewal Date
AUG. 19, 2025
Date
STATE OF CALIFORNIA

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REVISION	DESCRIPTION

JOB 1737800	LSR.01
DP TE	
PM TE	
	11

California Water Service Company
Fire Flow Test

1/10/2024

Test Date: 12/15/2023 Time: 7:00

District BAKERSFIELD Zone: LOW Plat: 28-30

Address: 6610 DOWNING AVE AVE

Cross Street: FRUITVALE AVE AVE

Requested By: SWANSON ENGINEERING INC.

Conducted By: RAY VILLARREAL

Purpose Of Test: FIRE FLOW

Witnessed By: Calwater: ROBERT BROWN

Others:

Outlet No.	Outlet Size	PITOT	Observed	Static Pressure	Residual Pressure	Flow Observed	Flow Avail @20
Location 1 Hydrant No.: 1888			Address: 6610 DOWNING AVE				
1	4.00	42	2784	79	58	2784	4863
2							
3							
4							
Location 2 Hydrant No.:			Address:				
1							
2							
3							
4							
Location 3 Hydrant No.			Address:				
1							
2							
3							
4							
			Total Flow Observed Available @20:			2784	4863

Remarks: GPM: 2780

Static/Residual Location: F/H #5757

Note:

Regardless of the results of this test, California Water Service Company assumes no liability beyond that stated in the following excerpt from the P.U.C. Tariff Schedule: "The utility (California Water Service Company) will supply only such water at such pressure as may be available from time to time as a result of its normal operation of the system."

HYDRAULIC CALCULATION DESIGN INFORMATION	
CALCULATION AREA#	2
SPRINKLER HEAD TYPE	SSU
K-FACTOR	5.6
SYSTEM TYPE (WET/DRY)	WET
HAZARD CLASSIFICATION	ORD. GRP. 2
DENSITY (GPM/S.F.)	.2
AREA PER HEAD	114
AREA OF OPERATION (S.F.)	2052
AREA OF OPERATION ADJUSTMENTS:	
DRY PIPE INCREASE (30%)	450
SLOPE > 2:12 INCREASE (30%)	----
HIGH TEMPERATURE HEADS	----
PERCENT REDUCTION	
CEILING REDUCTION (S.F.)	
ADJUSTED AREA OF OPERATION	1950
WATER SUPPLY	
STATIC (PSI)	79
RESIDUAL (PSI)	58
FLOW (GPM)	2784
FIRE PUMP (GPM @ PSI)	N/A
SYSTEM DEMAND @ SOURCE	
PRESSURE REQUIRED (PSI)	57.81
FLOW REQUIRED (GPM)	669.05
PRESSURE AVAILABLE (PSI)	77.5
SAFETY MARGIN (PSI)	19.69
SAFETY MARGIN (%)	25.4HOSE
STREAM ALLOWANCE (GPM)	
INSIDE ---- OUTSIDE 250	
SYSTEM DEMAND AT BASE OF RISER	
PRESSURE REQUIRED (PSI)	48.6
FLOW REQUIRED (GPM)	419.04

HYDRAULIC CALCULATION DESIGN INFORMATION	
CALCULATION AREA#	1
SPRINKLER HEAD TYPE	SSU
K-FACTOR	8.0
SYSTEM TYPE (WET/DRY)	WET
HAZARD CLASSIFICATION	EX. GRP. 1
DENSITY (GPM/S.F.)	.3
AREA PER HEAD	91
AREA OF OPERATION (S.F.)	1887
AREA OF OPERATION ADJUSTMENTS:	
DRY PIPE INCREASE (30%)	----
SLOPE > 2:12 INCREASE (30%)	----
HIGH TEMPERATURE HEADS	----
PERCENT REDUCTION	25
CEILING REDUCTION (S.F.)	625
ADJUSTED AREA OF OPERATION	1875
WATER SUPPLY	
STATIC (PSI)	79
RESIDUAL (PSI)	58
FLOW (GPM)	2784
FIRE PUMP (GPM @ PSI)	N/A
SYSTEM DEMAND @ SOURCE	
PRESSURE REQUIRED (PSI)	61.36
FLOW REQUIRED (GPM)	1134.03
PRESSURE AVAILABLE (PSI)	75.013
SAFETY MARGIN (PSI)	13.652
SAFETY MARGIN (%)	18.2
HOSE STREAM ALLOWANCE (GPM)	
INSIDE ---- OUTSIDE 500	
SYSTEM DEMAND AT BASE OF RISER	
PRESSURE REQUIRED (PSI)	47.008
FLOW REQUIRED (GPM)	634.03

FIRE SPRINKLER MATERIAL SCHEDULE

SPECIFICATION SECTION	DESCRIPTION	MODEL NO.	CSFM LISTING	MANUFACTURER
210500				
2.2	BURIED PIPE			
	IN-BUILDING RISER	SERIES IBR	N/A	AMES
2.3	ABOVE GROUND PIPING			
	PIPE:			
	2½"-6" SCHED. 10	N/A	N/A	ALLIED
	1" - 2" SCHED. 40	N/A	N/A	ALLIED
	FITTINGS:			
	CAST IRON THREADED	N/A	N/A	ANVIL
	GROOVED	VGS	N/A	GRUVLOK
2.4	PIPE HANGERS AND SUPPORTS			
	----	----	----	ANVIL
2.6	GLOBE OR ANGLE VALVES			
	GLOBE VALVE	125SUL	N/A	UNITED BRASS
	ANGLE VALVE	126SUL	N/A	UNITED BRASS
2.8	BUTTERFLY VALVES			
	CHECK VALVES			
2.9	4" GROOVED CHECK VALVE	M-2	N/A	VIKING
211300				
1.5	STRUCTURAL DESIGN AND SEISMIC REQUIREMENTS			
		----	----	ANVIL
2.2	SPRINKLERS			
	MICROFAST QR SSU	VK3001	N/A	VIKING
	MICROFAST QR SSP	VK3021	N/A	VIKING
2.3	PIPING SPECIALTIES			
	10" ELECTRIC BELL	PBA-AC	7135-0328:0119	POTTER
	FLOWSWITCH	VSR-F	7770-0328:0001	POTTER

U.S. SEISMIC DESIGN

LATITUDE, LONGITUDE 35.3101087, -119.0154349

Sᴅ .986

Cp: .507

PROTECTION AREAS AND MAXIMUM SPACING OF STANDARD PENDENT AND UPRIGHT SPRAY SPRINKLERS

CONSTRUCTION TYPE	OCCUPANCY TYPE	MAXIMUM SPRINKLER SPACING (ft²)
NONCOMBUSTIBLE OBSTRUCTED CONSTRUCTION	LIGHT HAZARD	130
	ORDINARY HAZARD	130
NONCOMBUSTIBLE UNOBSTRUCTED HYDRAULICALLY CALCULATED	LIGHT HAZARD	225
	ORDINARY HAZARD	130

ANY SUBSTITUTION OF "FLEXIBLE" TYPE PIPING IN LIEU OF "RIGID" PIPE OR ANY CHANGES TO SIZE, MANUFACTURER OR LENGTHS OF "FLEXIBLE" TYPE PIPING REQUIRE RESUBMITTAL OF PIPING PLANS, PRODUCT DATA SHEETS AND HYDRAULIC CALCULATIONS FOR REVIEW AND APPROVAL. CONTRACTOR SHALL REIMBURSE OWNER FOR COST IF ADDITIONAL PLAN CHECK IS REQUIRED.

ANY CHANGES TO THE FIRE SPRINKLER SUPPORT, INCLUDING THE ADDITION OF SWAY BRACING, TO THE APPROVED CONSTRUCTION SET WILL RESULT IN A CHANGE TO THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL REIMBURSE OWNER FOR COST IF ADDITIONAL PLAN CHECK IS REQUIRED.

FIRE SPRINKLER SYMBOLS

SYMBOL	DESCRIPTION
1 / FP1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN
	HYDRAULIC CALCULATION REFERENCE NODE
	EARTHQUAKE BRACE
	FIRE SPRINKLER RISER
	GROOVED COUPLING
	HANGER DESIGNATION
	CHANGE IN ELEVATION
	CAP
	PLUG
	VALVE
	FIRE SPRINKLER PIPE
	END OF LINE RESTRAINT
	PIPE SLEEVE THROUGH RATED WALL (9/FS3.1)
	TRAPEZE HANGER

SPRINKLER SYSTEM - GENERAL INFORMATION

FOR	KERN COUNTY PUBLIC WORKS				
DATE	12-27-23				
FLOW TEST DATA:					
STATIC:	X	PSI	RESID:	X	PSI
FLOW:	X	GPM	PITOT:	X	PSI
ELEV.	X	LOCATION	X		
LOCATION OF AUX/LOW POINT DRAINS:					
ORIGINAL MAIN DRAIN TEST RESULTS:					
STATIC	X	PSI	RESID:	X	PSI
HIGH PILED:	-	YES	X	NO	
RACK STORAGE:	X	YES	-	NO	
COMMODITY CLASS					
MAXIMUM STORAGE	12	FT			
AISLE WIDTH (MIN.)	8	FT			
ENCAPSULATION:	-	YES	X	NO	
SOLID SHELVING:	-	YES	X	NO	
FLAMMABLE / COMBUSTIBLE LIQUIDS	-	YES	X	NO	
OTHER STORAGE:	-	YES	X	NO	
HAZARDOUS MATERIAL	-	YES	X	NO	
IDLE PALLETS	-	YES	X	NO	
ANTIFREEZE SYSTEMS	-	YES	X	NO	
DRY OR AUX SYS	-	YES	X	NO	
LOCATION					
NAME OF CONTRACTOR OR DESIGNER:			BASKIN MECHANICAL ENGINEERS		
ADDRESS & PHONE NUMBER			175 FULTON STREET FRESNO, CA 93721 PH 559-237-0376		

BUILDING DATA

PROJECT DESCRIPTION:	INSTALL COMPLETE FIRE SPRINKLER SYSTEM IN NEW WAREHOUSE FACILITY. WORK TO BEGIN AT GROOVED CONNECTION 6" ABOVE FINISHED FLOOR
OWNER:	KERN COUNTY PUBLIC WORKS

BUILDING DATA/ CODE ANALYSIS

DESCRIPTION	MULTI-PURPOSE
OCCUPANCY GROUP	XX
CONSTRUCTION TYPE	XX
STORIES	1
HEIGHT	XX
FIRE SPRINKLER SYSTEM	YES
FIRE ALARM	YES
TOTAL (sq.ft.)	XX

FIRE SPRINKLER SHEET INDEX

SHEET NO.	SHEET TITLE
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FP500	FIRE SPRINKLER DETAILS AND BUILDING CROSS SECTION

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A NEW BUILDING FOR:

KERN COUNTY
SPECIAL WASTE
FACILITY

SEC OF DOWNING AV
& WEAR ST
BAKERSFIELD, CALIFORN

DATE	ISSUE / SUB

REVISION	DESCRIPTION

JOB	
SET	
PM	
	FP001

FIRE SPRINKLER COVER SHEET AND LEGENDS

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OVERHEAD FIRE SPRINKLER SYSTEM NOTES

1. NFPA 13 (2022) SEC. 6.10.2.1.1 UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO THE OVERHEAD FIRE SPRINKLER PIPING SYSTEM. (WITNESSED BY THE INSPECTOR OF RECORD)
2. NFPA 13 (2022) SEC. 18.4.1 CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS, FLOORS, PLATFORMS AND FOUNDATIONS INCLUDING DRAINS SUCH THAT THE DIAMETER OF THE HOLES IS 2 INCHES LARGER THAN THE PIPE FOR 1 INCH TO 3 $\frac{1}{2}$ INCH NOMINAL AND 4 INCHES LARGER THAN THE PIPE FOR PIPE 4 INCH NOMINAL AND LARGER.
3. NFPA 13 (2022) SEC. 29.2.1.1 ALL INTERIOR PIPING AND APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (WITNESSED BY THE DSA PROJECT INSPECTOR)
4. NFPA 13 (2022) SEC. 16.2.7.1 PROVIDE SPARE SPRINKLER HEAD CABINET, WRENCH, AND NO FEWER THAN A TOTAL OF 6 SPARE SPRINKLER HEADS MATCHING THE TYPES AND TEMPERATURE RATINGS IN EACH PROTECTED BUILDING FOR SYSTEMS WITH LESS THAN 300 SPRINKLERS AND 12 SPARE SPRINKLERS FOR SYSTEMS WITH 300-1000 SPRINKLERS.
5. NFPA 72 (2022) SEC. 5-10.2 SPRINKLER FLOW SWITCHES SHALL BE TESTED BY IOR TO CONFIRM THAT WHEN THE INSPECTORS' TEST VALVE IS ACTIVATED AND ALARM WILL SOUND IN NO LESS THAN 20 SECONDS AND NOT MORE THAN 90 SECONDS.
6. CBC (2022) SEC. 903.4.1 MAIN FIRE ALARM PANEL MONITORING AND WATER FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.
7. NFPA 13 (2022) SEC. 6.9 FLOW SWITCHES SHALL BE CONNECTED TO A 10 INCH OUTSIDE ALARM BELL AT EACH RISER. AN APPROVED IDENTIFICATION SIGN SHALL BE PROVIDED FOR THE OUTSIDE ALARM BELL. THE SIGN IS TO READ "SPRINKLER FIRE ALARM-WHEN BELL RINGS CALL 911/FIRE DEPARTMENT"
8. NFPA 13 (2022) SEC. 25.5 HYDRAULIC CALCULATION DESIGN DATA PLACARD IS TO BE ATTACHED TO THE FIRE SPRINKLER SYSTEM RISER.
9. NFPA 13 (2022) SEC. 25.1 THE FIRE SPRINKLER CONTRACTOR (C-16) SHALL COMPLETE AND SIGN THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE OVERHEAD FIRE SPRINKLER SYSTEM USING THE FORM IN FIGURE 24.1. THIS FORM SHALL BE GIVEN TO THE DSA PROJECT INSPECTOR WHO WILL TURN IT IN FOR DSA RECORDS.
10. NFPA 13 (2022) SEC. 25.2.3.4 THE MAIN DRAIN VALVE SHALL BE OPENED AND REMAIN OPEN UNTIL THE SYSTEM PRESSURE STABILIZES. THE STATIC AND RESIDUAL PRESSURES SHALL BE RECORDED ON THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE. THE TEST IS TO BE WITNESSED BY THE INSPECTOR OF RECORD - IOR.
11. SPRINKLER UPRIGHTS AND DROPS OVER 4 FEET LONG SHALL BE RESTRAINED TO PREVENT DAMAGE TO PIPING OR TO AND FROM ADJACENT BUILDING ELEMENTS.
12. TITLE 19 ARTICLE 906(A) A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEM WITH THE DATE OF SERVICE AND/OR DATE INSTALLATION WAS PERFORMED AND LICENSE NUMBER OF PERSON PERFORMING SERVICE WORK.
14. NFPA 13 (2022) TABLE A.16.7: SIGNAGE SHALL BE PROVIDED AS REQUIRED.

FIRE PROTECTION NOTES

1. ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT.
   A. CALIFORNIA FIRE CODE, 2022
   B. NFPA-13, 2022
   C. KERN COUNTY FIRE DEPARTMENT
   D. CALIFORNIA BUILDING CODE - 2022
   E. CALIFORNIA MECHANICAL CODE - 2022
   F. CALIFORNIA PLUMBING CODE - 2022
   G. CALIFORNIA ELECTRICAL CODE - 2022
   H. STATE OF CALIFORNIA ENERGY CONSERVATION REGULATIONS, TITLE 24 - 2022
   I. NATIONAL FIRE PROTECTION ASSOCIATION
   J. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
2. SEISMIC RESTRAINT: ALL HUNG PIPING SHALL CONFORM TO NFPA 13, CHAPTER 18.
   A. LATERAL BRACING MAY BE ELIMINATED IF PIPING 2-1/2" AND LARGER IS SUSPENDED
   B. BY INDIVIDUAL HANGERS 6" OR LESS IN LENGTH FROM THE TOP OF PIPE TO THE BOTTOM OF THE ATTACHMENT TO STRUCTURE.
   C. NO TRAPEZE ASSEMBLIES SHALL BE USED TO SUPPORT PIPING.
   D. WHERE LATERAL RESTRAINTS ARE OMITTED, PIPING SHALL BE INSTALLED SUCH THAT LATERAL MOTION OF THE PIPING WILL NOT CAUSE DAMAGING IMPACT WITH OTHER SYSTEMS OR STRUCTURAL MEMBERS, OR LOSS OF VERTICAL SUPPORT.
3. THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE TO VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACING LOADS.
4. THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS PRIOR TO BIDDING. IF AWARDED THE CONTRACT, THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS IN DETAIL AND COORDINATE THE WORK WITH NEW BUILDING SYSTEMS.
5. ANY DAMAGE TO NEW BUILDING ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS THAT OCCURS DURING THE WORK SHALL BE RESTORED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IF LANDSCAPED AREAS INCLUDING NATURAL SPACES MUST BE USED FOR BUILDING ACCESS, THE LANDSCAPING SHALL BE RETURNED TO ITS ORIGINAL CONDITION. THE CONTRACTOR SHALL INCLUDE COSTS IN THE BID FOR THIS WORK IF THIS APPROACH IS USED. THE OWNER WILL NOT PAY ANY ADDITIONAL COSTS TO COVER DAMAGE TO THE BUILDING SYSTEMS, LANDSCAPING OR DRIVE AREAS.
6. COORDINATE THE FOLLOWING WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND ELEMENTS AS INSTALLED, INCLUDING EXISTING BUILDING SYSTEMS:
   EXACT LOCATION OF ALL EQUIPMENT.
   ALL PENETRATIONS THRU ROOF, WALLS AND FLOORS.
   EXACT SIZE AND ROUTING OF PIPING.
7. DRAWINGS INDICATE DIAGRAMMATICALLY THE ARRANGEMENT OF PRINCIPAL APPARATUS, PIPING, AND OTHER MATERIAL. FOLLOW DRAWING AS CLOSELY AS POSSIBLE, IN ORDER TO ACHIEVE A NEAT ARRANGEMENT OF PIPING AND EQUIPMENT WHILE STILL OVERCOMING OBSTRUCTIONS.
8. INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS, INCLUDING WATER SUPPLY INFORMATION, HAVE BEEN APPROVED BY AUTHORITY HAVING JURISDICTION. AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM MUST BE TESTED IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION (IOR).
9. THE LOCATION OF FIRE SPRINKLER HEADS SHALL BE COORDINATED WITH THE NEW CEILING LAYOUTS AND ALL OTHER TRADES FOR COMPLETE FIRE PROTECTION COVERAGE OF ALL AREAS. PROVIDE DETAILED PLANS FOR APPROVAL PRIOR TO INSTALLATION.
10. HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS. COORDINATE LAYOUT WITH CEILING OR SOFFIT LIGHT FIXTURES, AND HVAC DIFFUSERS, RETURNS, ETC. PROVIDE PENDENT AND/OR UPRIGHT TYPE SPRINKLER HEAD WHERE REQUIRED.
11. WORKMANSHIP:
    ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THE PARTICULAR TRADE. PIPES, EQUIPMENT, ETC., TO BE INSTALLED LEVEL, SQUARE OR CENTERED, ETC., TO GIVE A NEAT AND PLEASING APPEARANCE. ALL EQUIPMENT IS TO BE INSTALLED STRICTLY PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL WORK WITH OTHER TRADES.
12. THE ANNULAR SPACE BETWEEN PIPE SLEEVES AND THE PIPE THROUGH ALL RATED WALLS AND FLOORS SHALL BE FIRESTOPPED. FIRESTOPPING OF ALL PIPE PENETRATIONS SHALL COMPLY WITH U.L. REQUIREMENTS. MANUFACTURER PREAPPROVED UL PENETRATION FOR PIPE MATERIAL AND SURFACE PENETRATED SHALL BE USED. PENETRATIONS SHALL BE 3M, PROSET, OR APPROVED EQUAL. SUBMIT SHOP DRAWINGS.
13. BY OTHERS:
    ELECTRICAL CONTRACTOR: ALL POWER AND ALARM WIRING, CONDUITS, DISCONNECTS, AND FINAL CONNECTIONS. NO FIELD SUPPLIED ELECTRICAL DEVICE SHALL BE MOUNTED ON PIPING AND NO RIGID ELECTRICAL CONNECTIONS SHALL BE MADE.
14. GENERAL CONTRACTOR: CUTTING, FRAMING, PATCHING, FURRING, AND PAINTING.
15. WARRANTY:
    ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL FIRE PROTECTION, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT.
16. IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED. THE ENGINEER WILL GIVE ANY INTERPRETATIONS NECESSARY FOR THE CONTRACTOR TO PROPERLY ESTIMATE THE JOB.
17. IT IS THE CONTRACTORS' RESPONSIBILITY TO PROVIDE FABRICATION OR SHOP DRAWINGS. CAD FILES WILL NOT BE PROVIDED

GENERAL NOTES

1. THE SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH NFPA 13, 2022 EDITION AND THE DSA REQUIREMENTS.
2. SYSTEM HYDRAULIC DESIGN IS FOR: STORAGE LESS THAN 12': EXTRA HAZARD, GROUP 1, OFFICE: LIGHT HAZARD, EXTERIOR LOADING: ORDINARY HAZARD, GROUP 2
3. CITY WATER SUPPLY INFORMATION:
   STATIC: 79 PSI RESIDUAL: 58 PSI GPM: 2784 TEST DATE: 12/15/2023
   TEST BY: CALIFORNIA WATER SERVICE COMPANY
4. ALL PIPE 2" AND SMALLER SHALL BE SCHEDULE 40, BLACK STEEL ANSI/ASTM A135.
5. ALL GROOVED AND WELDED PIPE 2 $\frac{1}{2}$" - 6" SHALL BE SCHEDULE 10, BLACK STEEL ANSI/ASTM A795.
6. THREADED FITTINGS SHALL BE CLASS 125 THREADED CAST IRON ANSI B16.4.
7. ALL THREADED PIPE AND FITTINGS SHALL HAVE THREADS CUT TO ANSI/ASME STANDARD B1.20.1.
8. ALL PIPE WELDING SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF AWS D10.9 (STANDARD FOR BUILDING SERVICE PIPING), LEVEL AR-3.
9. ALL PIPE SHALL BE EARTHQUAKE BRACED AS OUTLINED IN NFPA 13, 2022 EDITION, CHAPTER 18, AND AS MODIFIED BY THE 2022 CBC.
4. ALL HANGER COMPONENTS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, 2022 EDITION, SECTION 9.3, AND AS MODIFIED BY THE 2022 CBC.
5. ELECTRICAL WIRING AND ANY PAINTING OF THE PIPE THAT MAY BE REQUIRED SHALL BE BY OTHERS.
6. ALL NEW PIPING IS TO BE HYDROSTATICALLY TESTED TO CODE FOR A PERIOD NOT LESS THAN TWO HOURS.
7. FLOW AND TAMPER SWITCHES ARE TO BE PROVIDED ON THE FIRE SPRINKLER SYSTEM. ALL ELECTRICAL WIRING TO BE PROVIDED "BY ELECTRICAL CONTRACTOR."
8. FIRE SPRINKLER SUPPLY AND STUB OUT SHALL BE INSTALLED AND TESTED PER NFPA 24.
9. MAIN FIRE PANEL, VALVE MONITORING, WATER FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.

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Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY
SPECIAL WASTE
FACILITY

SEC OF DOWNING AV
& WEAR ST
BAKERSFIELD, CALIFORN

DATE	ISSUED FOR

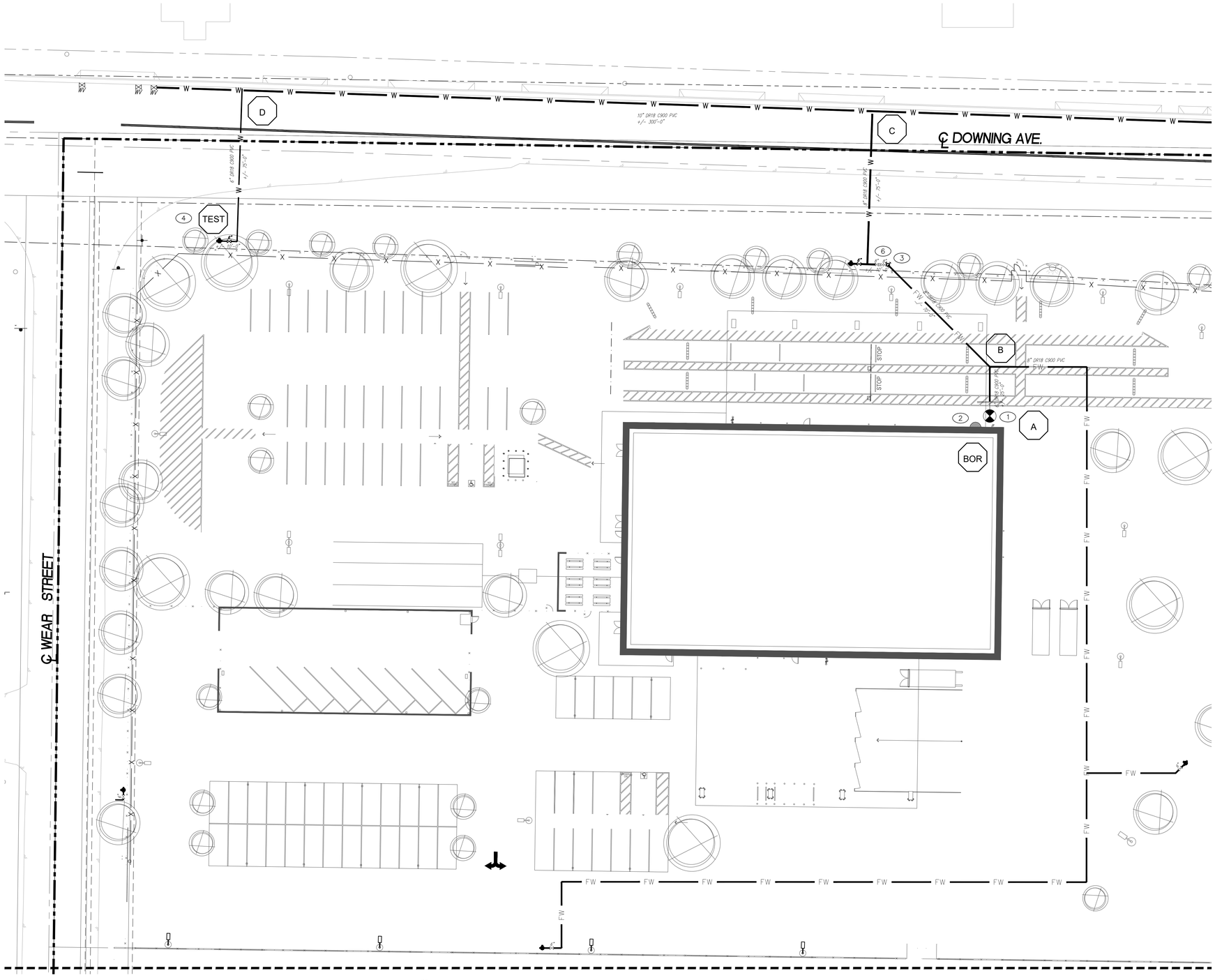
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FIRE SPRINKLER NOTES

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KEY NOTES

1. FIRE SPRINKLER RISER
2. 10" ELECTRIC BELL
3. FIRE DEPARTMENT CONNECTION
4. FLOW TEST HYDRANT
5. POINT OF CONNECTION TO EXISTING UNDERGROUND
6. 6" WILKINS 350DA DOUBLE DETECTOR CHECK ASSEMBLY

FIRE SPRINKLER REFERENCE SITE PLAN (FOR HYDRAULIC REFERENCE ONLY)

SCALE: 1"=20'-0"

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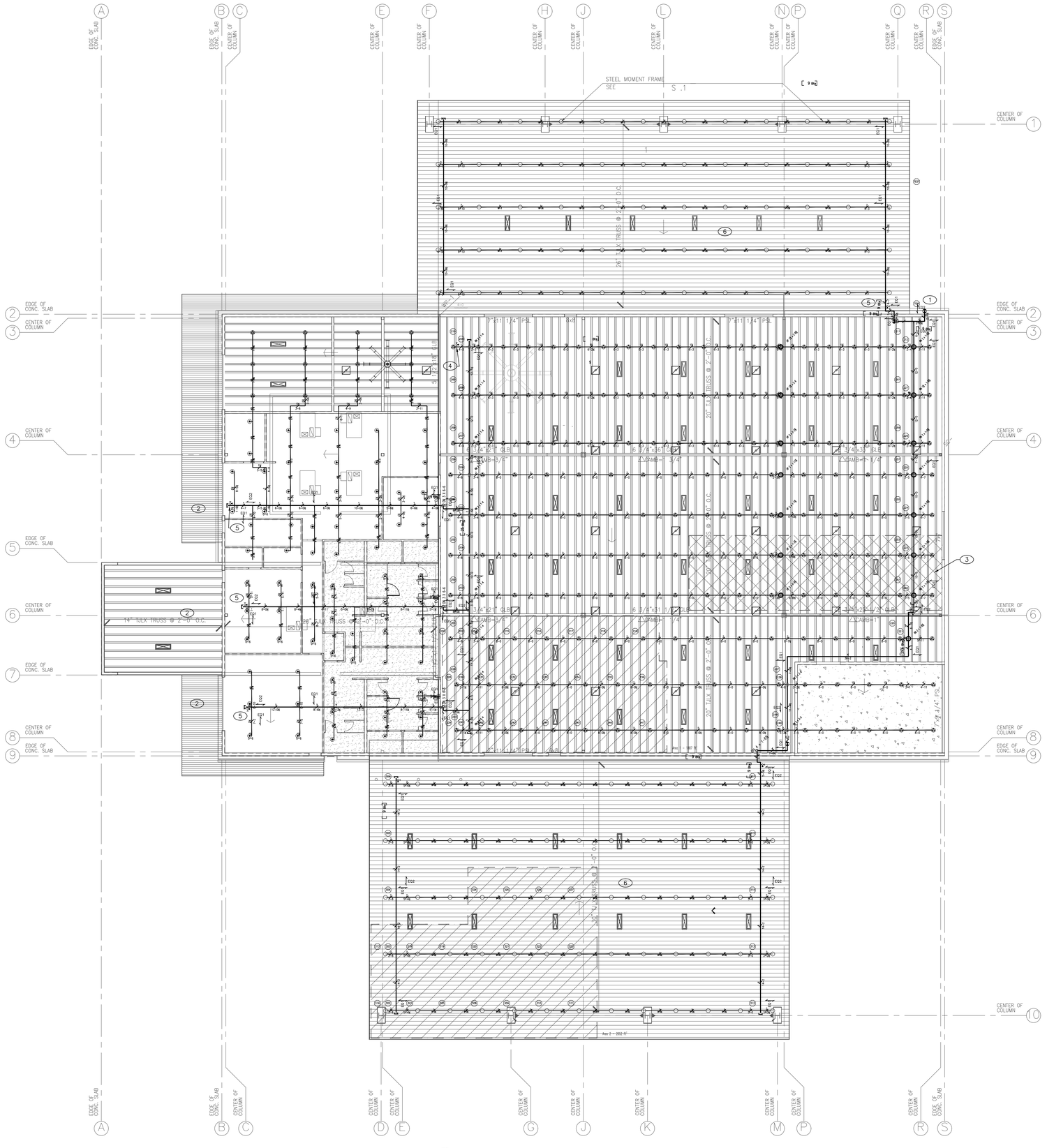
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DR	**FP003**
CH	
PD	



FIRE SPRINKLER PIPING PLAN

SCALE: 1/8"=1'-0"

KEY NOTES

1. FIRE SPRINKLER RISER
2. NONCOMBUSTIBLE EXTERIOR CANOPY-NO A.S.
3. ZONE OF INFLUENCE
4. AIR RELEASE VALVE
5. DRAIN VALVE
6. DRY SYSTEM

GENERAL NOTES

1. CONTRACTOR IS TO COORDINATE WITH ALL OTHER DISCIPLINES. REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING SHEETS, FIRE PROTECTION SPECIFICATIONS, AS WELL AS OTHER PORTIONS OF THE CONTRACT DOCUMENTS FOR ADDITIONAL COORDINATION REQUIREMENTS.
2. THE LAYOUT REQUIREMENTS DESCRIBED IN THESE PLANS SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE BUT SHALL NOT SUPERSEDED CODE CONSTRAINTS AND/OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION (AHJ'S). WHERE CODE OR AHJ REQUIREMENTS SUPERSEDE ITEMS SHOWN ON THIS PLAN, CONTRACTOR SHALL INCLUDE ALL ASSOCIATED PROVISIONS IN THE BID, AND SHALL MAKE THEM AT NO ADDITIONAL COST TO OWNER. PROPOSED DEVIATIONS FROM THIS PLAN SHALL BE SUBJECT TO ENGINEER OF RECORD REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
3. ALL AREAS OF THE BUILDING NOT COVERED BY NOTES HEREIN SHALL BE FULLY SPRINKLERED IN ACCORDANCE WITH SPECIFICATIONS, NFPA 13, 2022 ED., AND KERN COUNTY FIRE DEPARTMENT REQUIREMENTS.
4. WHERE PLAN INDICATES EXPOSED FIRE SPRINKLER PIPING DIRECTION OF LAYOUT, ASSOCIATED CONNECTED FIRE SPRINKLER PIPING RUNNING IN PERPENDICULAR DIRECTIONS SHALL BE INSTALLED ONLY IN CONCEALED LOCATIONS UNLESS INDICATED OTHERWISE.
5. EXPOSED FIRE SPRINKLER SYSTEM PIPING SHALL BE RUN STRAIGHT AND TIGHT TO UNDERSIDE OF STRUCTURAL MEMBERS.
6. FOR HANGER DETAILS, SEE SHEET FP500
7. UNO, ALL HANGERS ARE LESS THAN 6" FROM TOP OF PIPE TO POINT OF CONNECTION TO STRUCTURE. NO BRANCH LINE RESTRAINT IS REQUIRED.
8. FOR FIRE SPRINKLER SYMBOLS SEE SHEET FP001.

FIRE SPRINKLER LEGEND

SYM	QTY	TYPE	FINISH	TEMP	K	NPT	SIN#	MFG	MODEL#	ESCUTCHEON
●	68	QR PEND	WHITE	155	5.6	1/2"	VK302	VIKING	MICROFAST	SEMI RECESS
⚠	185	SRCV	BRASS	286	8.0	3/4"	VK1202	VIKING		N/A
○	194	QR SSU	BRASS	200	5.6	1/2"	VK300	VIKING	MICROFAST	N/A
TOTAL THIS SHEET	447									

FIRE SPRINKLER INFORMATION IS FOR PLAN REVIEW ONLY. INSTALLING CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACCURATE SPRINKLER LAYOUT AND QUANTITIES. NO PRICING ADJUSTMENT WILL BE ALLOWED SPRINKLER HEADS ADDED BY CONTRACTOR.

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SEC OF DOWNING Av & WEAR ST
BAKERSFIELD, CALIFORN

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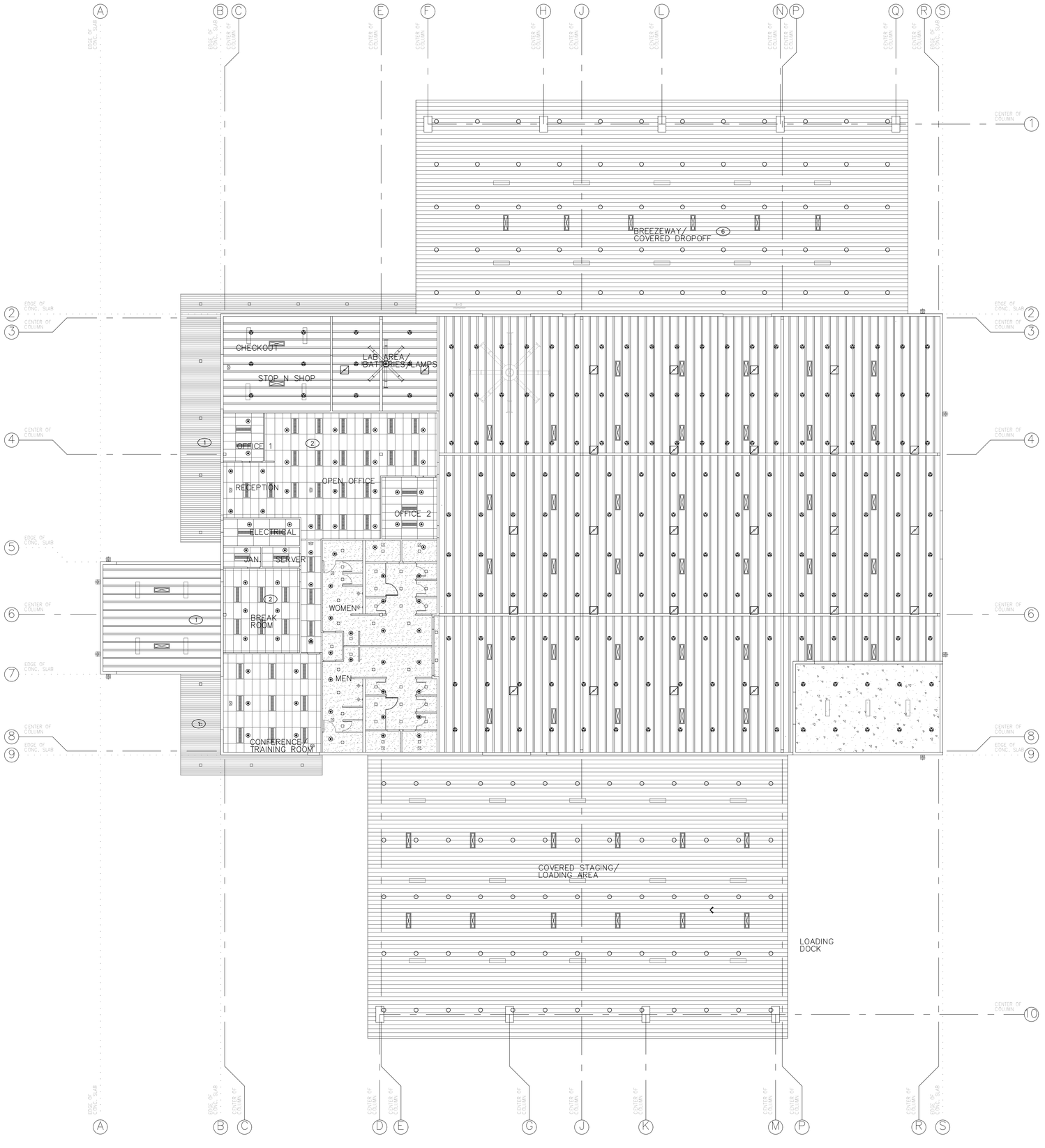
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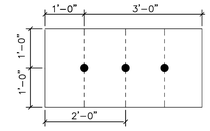
FP210



FIRE SPRINKLER REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

1. NONCOMBUSTIBLE EXTERIOR CANOPY - NO A.S. REQUIRED PER NFPA 13 8.15.7.3
2. SPRINKLERS ARE TO BE IN CENTERLINE OF CEILING TILE OR LIGHTING PLAN (TYPICAL)



FIRE SPRINKLER LEGEND

SYM	QTY	TYPE	FINISH	TEMP	K	NPT	SIN#	MFG	MODEL#	ESCUTCHEON
●	68	QR PEND	WHITE	155	5.6	1/2"	VK302	VIKING	MICROFAST	SEMI RECESS
△	310	SRCV	BRASS	286	8.0	3/4"	VK1202	VIKING		N/A
○	69	QR SSU	BRASS	200	5.6	1/2"	VK300	VIKING	MICROFAST	N/A
TOTAL THIS SHEET	447									

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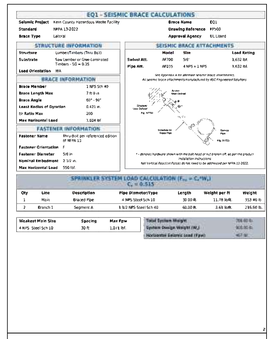
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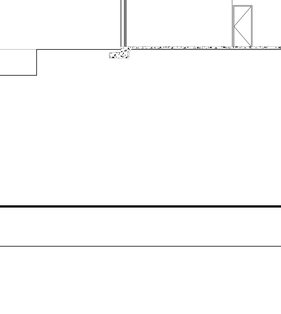
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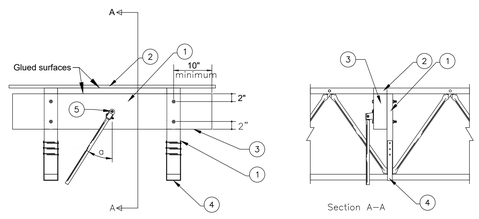
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DR AC/JM	
PM GJF	





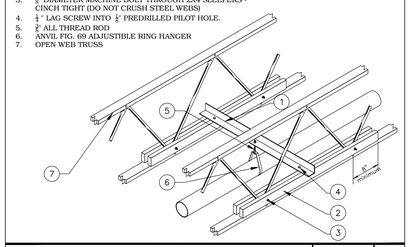
1. VERTICAL 2X4 BLOCK NOTCHED AT THE BOTTOM TO CLEAR WEBS
2. FLAT BLOCK, GLUE TOP AND BOTTOM SURFACES WITH FOUR ¼" BEADS OF APPROVED ELASTOMERIC FLOOR ADHESIVE. FOLLOW MANUFACTURER'S RECOMMENDATIONS. GLUED SURFACES MUST BE CLEAN AND DUST FREE.
3. 4X10 OR 4X12 DOUGLAS FIR OR SOUTHERN PINE HANGER BLOCK. SUPPORT AS SHOWN WITH TWO ½" DIAMETER MACHINE BOLTS AT EACH END.
4. LIGHT GAUGE STRAP (SIMILAR TO SIMPSON STRONG-TIE LSTA24 STRAP). INSTALL WITH THREE 8D (2½") COMMON OR 10D (3") COMMON NAILS AT THE ENDS OF THE STRAPS.
5. ½" THROUGH BOLT AT CENTER OF THE 4X_ HANGER BLOCK.

20' MAX SPACING PER SEISMIC BRACE CALCULATIONS.
MAXIMUM DISTANCE FROM END OF PIPE SHALL NOT EXCEED 6 FT.
NFPA 13 18.5.5.5



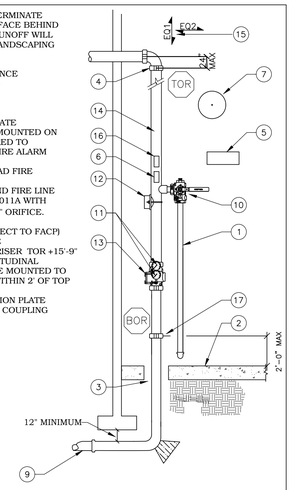
LATERAL SWAY BRACE ATTACHMENT TO OPEN WEB TRUSS — NTS — EQ 3, 4 — 6

1. ANGLE IRON
2. DOUBLE 2X4 BOTTOM CHORD SLEEPER
3. ½" DIAMETER MACHINE BOLT THROUGH 2X4 SLEEPERS - CINCH TIGHT (DO NOT CRUSH STEEL WEBS)
4. ¼" LAG SCREW INTO ½" PREDRILLED PILOT HOLE.
5. ½" ALL THREAD ROD
6. ANVIL FIG. 69 ADJUSTIBLE RING HANGER
7. OPEN WEB TRUSS



MAIN HANGER AT OPEN WEB TRUSS — 4

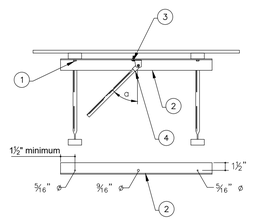
1. 2" MAIN DRAIN-TO TERMINATE OUTSIDE BUILDING FACE BEHIND DOOR. DRAINAGE RUNOFF WILL DISCHARGE ONTO LANDSCAPING AREA.
2. FINISHED GRADE
3. 2" ANNULAR CLEARANCE
4. FLEXIBLE COUPLING
5. SPARE HEAD BOX. 6-SSU 6-SSP
6. HYDRAULIC CALC PLATE
7. 10" ELECTRIC BELL MOUNTED ON EXTERIOR WALL WIRED TO FLOWSWITCH AND FIRE ALARM SYSTEM
8. SUPPLY TO OVERHEAD FIRE SPRINKLER SYSTEM
9. FROM UNDERGROUND FIRE LINE
10. AGF TEST N DRAIN 1011A WITH RELIEF VALVE AND ¾" ORIFICE.
11. 300# GAUGE
12. FLOWSWITCH (CONNECT TO FACP)
13. RISER CHECK VALVE
14. 4" FIRE SPRINKLER RISER TOR +15'-9"
15. LATERAL AND LONGITUDINAL EARTHQUAKE BRACE MOUNTED TO ROOF STRUCTURE WITHIN 2' OF TOP OF RISER
16. GENERAL INFORMATION PLATE
17. FLEXIBLE GROOVED COUPLING



FIRE SPRINKLER RISER — NTS — 1

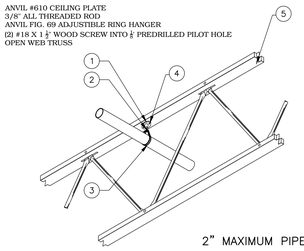
1. ½" X 1½" LAG SCREW (REQUIRES ½" DIAMETER PILOT HOLE) CENTERED ON THE UNDERSIDE OF THE TOP CHORD
2. 2½" X 2½" X ⅜" STEEL ANGLE MAXIMUM LENGTH FROM JOIST TO JOIST IS 48 INCHES.
3. ½" DIAMETER MACHINE BOLT CENTERED BETWEEN JOISTS
4. SWIVEL SWAY BRACE FITTING

NFPA 13 18.5.6.1 LONGITUDINAL SWAY BRACING SPACED AT A MAXIMUM OF 80 FT. ON CENTER SHALL BE PROVIDED FOR FEED AND CROSS MAINS.
NFPA 13 18.5.6.3 THE DISTANCE BETWEEN THE LAST BRACE AND THE END OF THE PIPE OR A CHANGE IN DIRECTION SHALL NOT EXCEED 40 FT.



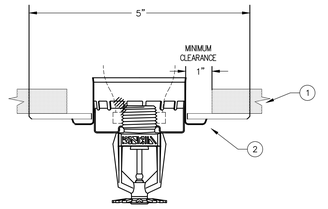
LONGITUDINAL SWAY BRACE ATTACHMENT TO RED-I JOIST — NTS — EQ2 — 7

1. ANVIL #610 CEILING PLATE
2. 3/8" ALL THREADED ROD
3. ANVIL FIG. 69 ADJUSTIBLE RING HANGER
4. (2) #18 X 1½" WOOD SCREW INTO ½" PREDRILLED PILOT HOLE
5. OPEN WEB TRUSS



BRANCH LINE HANGER AT OPEN WEB TRUSS — 5

1. T-BAR CEILING
2. EXPANSION PLATE



PENDENT SPRINKLER THROUGH T-BAR CEILING — NTS — 2

HANGER RODS TO BE INSTALLED TIGHT TO PIPE TO PREVENT UPWARD MOVEMENT

MAXIMUM DISTANCE BETWEEN HANGERS

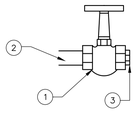
NOMINAL PIPE SIZE (in.)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12-0"	12-0"	15-0"	15-0"	15-0"	15-0"	15-0"	15-0"
THREADED LIGHTWALL STEEL PIPE	N/A	12-0"	12-0"	12-0"	12-0"	12-0"	12-0"	N/A	N/A

HANGER ROD SIZES

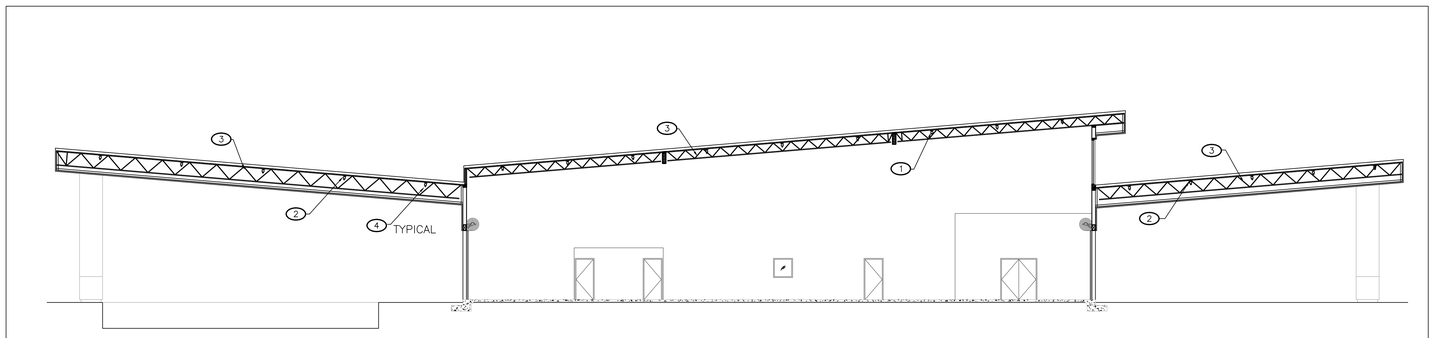
NOMINAL PIPE SIZE (in.)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
THREADED LIGHTWALL STEEL PIPE	N/A	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"

HANGER CHART — NTS — 8

1. 1" GLOBE VALVE
2. 1" NIPPLE
3. 1" PLUG



MANUAL AIR RELEASE VALVE — NTS — 3



FIRE SPRINKLER BUILDING CROSS SECTION — 3/32" = 1'-0" — 9

KEYNOTES

1. BRASS, SSU, 286°, K8.0
2. BRASS, SSU, 200°, K5.6
3. OPEN WEB TRUSS
4. BRANCH LINE

Skarphol/Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
(661) 334-2741
skarpholfrank.com

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APPROVED
FOR CODE REQUIREMENTS ONLY
SEE MEMO
2/2/2026, 4:05:25 PM
K202408865
Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY
SPECIAL WASTE
FACILITY

SEC OF DOWNING Av
& WEAR ST
BAKERSFIELD, CALIFORN

DATE	ISSUED FOR
1-10-2024	PERMIT, DEPARTMENT SUBMITTAL

REVISION	DESCRIPTION

NOT FOR CONSTRUCTION
REGISTERED PROFESSIONAL ENGINEER
KENNETH JAMES BASKIN
No. M26578
Exp. 9-30-22
MECHANICAL
STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
5500 Ming Ave., Suite 251
Bakersfield, CA 93309
Tel: (661) 397-2114
Job: 23110
Plt: 02-02-24

JOB	23110
PLT	02-02-24
FM	GF
	FP500

KERN COUNTY SPECIAL WASTE FACILITY

PARKING GARAGE
SEC OF DOWNING AVEUNE & WEAR STREET
BAKERSFIELD, CALIFORNIA

VICINITY MAP



SPECIAL INSPECTIONS

NOTE: PER SECTION 1709.5.2.1, ROLLING DOORS SHALL BE TESTED IN ACCORDANCE WITH EITHER ASTM E330 OR ANSI/DASMA 108 AND SHALL MEET THE PASS/FAIL CRITERIA OF ANSI/DASMA 108. GARAGE DOORS AND ROLLING DOORS SHALL BE LABELED WITH A PERMANENT LABEL IDENTIFYING THE DOOR MANUFACTURER, THE DOOR MODEL/SERIES NUMBER, THE POSITIVE AND NEGATIVE DESIGN WIND PRESSURE RATING, THE INSTALLATION INSTRUCTION DRAWING REFERENCE NUMBER, AND THE APPLICABLE TEST STANDARD.

•SEE SHEET S1.1 FOR ADDITIONAL SPECIAL INSPECTION INFORMATION.

2 SPECIAL INSPECTION NOTE HAS BEEN ADDED

PROJECT ANALYSIS

SCOPE OF WORK

THIS PROJECT INVOLVES THE CONSTRUCTION OF A NEW ENCLOSED PARKING GARAGE IN BAKERSFIELD, CALIFORNIA. THIS STRUCTURE WILL ACCOMPANY AND BE LOCATED ADJACENT TO A NEW HOUSEHOLD HAZARDOUS WASTE FACILITY

GOVERNING CODES

ZONING:	BAKERSFIELD MUNICIPAL CODE, TITLE 17 ZONING
BUILDING CODE:	2022 TITLE 24, PART 2, CALIFORNIA BUILDING CODE 2022 TITLE 24, PART 11, CALIFORNIA GREEN BUILDING STANDARDS CODE
ELECTRICAL CODE:	2022 TITLE 24, PART 3, CALIFORNIA ELECTRICAL CODE
MECHANICAL CODE:	2022 TITLE 24, PART 4, CALIFORNIA MECHANICAL CODE
PLUMBING CODE:	2022 TITLE 24, PART 5, CALIFORNIA PLUMBING CODE
ENERGY CODE:	2022 TITLE 24, PART 6, CALIFORNIA ENERGY CODE
FIRE CODE:	2022 TITLE 24, PART 9, CALIFORNIA FIRE CODE

PROJECT LOCATION

AUTHORITY HAVING JURISDICTION:	COUNTY OF BAKERSFIELD
APN:	452-070-20
ZONING:	M-2 PD

NEW CONSTRUCTION CLASSIFICATION

OCCUPANCY TYPE:	ENCLOSED PARKING GARAGE
OCCUPANCY GROUP:	S-2
CONSTRUCTION TYPE:	V-B
SPRINKLERS:	NFPA 13, FULLY-SPRINKLERED

BUILDING AREA

BUILDING AREA:

ENCLOSED PARKING GARAGE	6,000 S.F.
TOTAL:	6,000 S.F.

PARKING REQUIREMENTS

PARKING PROVIDED:

STANDARD PARKING:	7 SPACES
TOTAL PROVIDED:	7 SPACES

SHEET INDEX

T100 TITLE SHEET
T101 FINISH MATERIAL CERTIFICATES & CONSTRUCTION WASTE MANAGEMENT PLAN
T110 OCCUPANCY DIAGRAM

CIVIL

FOR CIVIL ENGINEERING SHEETS, PLEASE REFER TO HOUSEHOLD HAZARDOUS WASTE WAREHOUSE SUBMITTAL SET PERMIT K202408865

ARCHITECTURAL
A100 SITE PLAN
A210 FLOOR PLAN
A310 REFLECTED CEILING PLAN
A400 ROOF PLAN
A500 SECTIONS
A700 EXTERIOR ELEVATIONS
AD1 DETAILS

STRUCTURAL
S1.1 GENERAL NOTES
S1.1A SPECIAL INSPECTION REQUIREMENTS / NOTES
S1.2 FOUNDATION DETAILS
S2.1 FOUNDATION PLAN
S2.2 ROOF FRAMING PLAN
S3.1 ROOF FRAMING DETAILS

MECHANICAL
M100 MECHANICAL SITE PLAN
M212 MECHANICAL FLOOR PLAN

ELECTRICAL
E001 ELECTRICAL GENERAL NOTES
E002 ELECTRICAL FIXTURE SCHEDULE
E003 LIGHTING COMPLIANCE CERTIFICATES
E004 LIGHTING COMPLIANCE CERTIFICATES
E005 LIGHTING COMPLIANCE CERTIFICATES
E100 ELECTRICAL SITE PLAN
E101 SITE LIGHTING PLAN
E102 SITE LIGHTING PHOTOMETRIC PLAN
E210 POWER PLAN/LIGHTING PLAN

LANDSCAPE

FOR LANDSCAPE SHEETS, PLEASE REFER TO HOUSEHOLD HAZARDOUS WASTE WAREHOUSE SUBMITTAL SET PERMIT K202408865

1 ADDED SHEET

CONTACT INFORMATION

OWNER
KERN COUNTY PUBLIC WORKS — tel 661.862.5100
2700 M STREET, SUITE 400
BAKERSFIELD, CA 93301
CONTACT: DENISE SAUCEDO saucedod@kerncounty.com

ARCHITECT
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925 17TH STREET
BAKERSFIELD, CA 93301
CONTACT: GREG FRANK greg@skarpholfrank.com

CIVIL ENGINEER
SWANSON ENGINEERING, INC. — tel 661.831.4919
2000 OAK STREET, SUITE 150
BAKERSFIELD, CA 93301
CONTACT: JUSTIN SWANSON justin@swansonengr.com

STRUCTURAL ENGINEER
WHEELER & GRAY, INC. — tel 626.432.5850
1333 SOUTH MAYFLOWER AVENUE, SUITE 320
MONROVIA, CA 91016
CONTACT: YUCHIN TSAI ytsai@wheelerandgray.com

PLUMBING/MECHANICAL ENGINEER
BASKIN MECHANICAL ENGINEERS — tel 559.237.0376 — fax 559.000.0000
175 FULTON STREET
FRESNO, CALIFORNIA 93721
CONTACT: MARK BASKIN mbaskinme.com

ELECTRICAL ENGINEER
JMPE ELECTRICAL ENGINEERING — tel 661.831.7851 — fax 661.831.7813
5500 MING AVENUE
BAKERSFIELD, CA 93309
CONTACT: JOHN MALONEY maloney@jmpe.com

LANDSCAPE ARCHITECT
LANDSCAPE DEVELOPMENT, INC. — tel 661.295.1970
468 POLI STREET, SUITE 2E
VENTURA, CA 93001
CONTACT: MICHAEL McDONNELL mmcdonnell@landscapedevelopment.com

FIRE SPRINKLER DESIGN
FIRE SPRINKLER DESIGN SERVICES — tel 530.230.3320
CONTACT: SHARON ALVES firesprinklerdesignservicesgv@gmail.com

GENERAL NOTES

1. VERIFY, AT SITE, ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
2. EQUIPMENT AND ITEMS INDICATED AS NOT BEING INCLUDED IN THE CONTRACT, (N.I.C.), SHALL BE VERIFIED WITH THE OWNER'S REPRESENTATIVE AS TO SIZE, SHAPE AND UTILITY REQUIREMENTS TO INSURE COMPLETE AND PROPER INSTALLATION AND OPERATION.
3. ALL MANUFACTURED MATERIAL, EQUIPMENT, AND SYSTEMS SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER UNLESS SPECIFIED TO THE CONTRARY AND ONLY THEN IF SUCH CONFLICT IS FIRST VERIFIED WITH THE ARCHITECT IN WRITING.
4. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE PROJECT AREA AND SHALL HAVE SATISFIED HIMSELF AS TO THE EXISTING CONDITIONS AND THE CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO OPERATE, OR WILL IN ANY MANNER EFFECT THE WORK UNDER THE CONTRACT.
5. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
6. IN THE EVENT OF CONFLICTING STATEMENTS OR REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN SUFFICIENT TIME TO PERMIT THE ISSUANCE OF WRITTEN CLARIFICATION.
7. ALL WORK PERFORMED SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
8. FIRE MARSHAL SHALL CONFIRM NUMBER AND LOCATION OF ALL FIRE EXTINGUISHERS.
9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND APPROVAL OF THE FIRE SPRINKLER AND ALARM SYSTEM MODIFICATIONS.
10. CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR CLEAN-UP AS JOB PROGRESSES.
11. EXISTING WORK IS SHOWN FOR REFERENCE ONLY. THE TENANT/OWNER AND ARCHITECT DO NOT GUARANTEE EXISTING CONDITIONS AS SHOWN ON THESE DRAWINGS.
12. THE CONTRACTOR SHALL INVESTIGATE EXISTING CONDITIONS TO ASCERTAIN WORK REQUIRED AND INCLUDE ALL NECESSARY PATCHING AND REFINISHING.
13. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EQUIPMENT, ACCESSORY, DOOR, HARDWARE, PLUMBING, MECHANICAL, ELECTRICAL, LANDSCAPE, FINISH, CABINETRY, ETC. SUBMITTALS TO ARCHITECT FOR REVIEW AND APPROVAL BY THE ARCHITECT AND TENANT/OWNER PRIOR TO INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR ANY EQUIPMENT, ACCESSORIES, DOOR, HARDWARE, PLUMBING, MECHANICAL, ELECTRICAL, LANDSCAPE, FINISHES, CABINETRY, ETC. THAT ARE NOT APPROVED IN WRITING BY THE ARCHITECT AND TENANT/ OWNER.
14. GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW ALL CONSTRUCTION DOCUMENTS, I.E. ARCHITECTURAL, CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, LANDSCAPE, AND ANY WRITTEN DOCUMENTS, FOR THE PURPOSE OF COORDINATION OF SYSTEMS INSTALLATION PRIOR TO START OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION OF ANY DISCREPANCIES BETWEEN PLANS AND DOCUMENTS PRIOR TO BEGINNING CONSTRUCTION.

DEFERRED SUBMITTAL

DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF THE PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

LIST OF DEFERRED ITEMS

- FINAL SOILS REPORT
- ROUGH GRADE CERTIFICATE
- FINAL GRADE CERTIFICATE
- BUILDING SIGNAGE APPLICATION
- EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM
- FIRE ALARMS
- PRE-FABRICATED ROOF TRUSSES
- PHOTOVOLTAIC SYSTEM DESIGN
- KNOX BOXES AT ENTRY GATES

1 ADDITIONAL DEFERRED SUBMITTALS HAVE BEEN ADDED

Skarphol/Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
(661) 334-2741
skarpholfrank.com

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LICENSED ARCHITECT GREGORY FRANK NO. C-31080 REGISTERED STATE OF CALIFORNIA

APPROVED PER ENVELOPE REQUIREMENTS ONLY SEE MEMO
2/2/2026, 3:46:20 PM
K202409814
Dennis McNamara

GRADING APPROVED PUBLIC WORKS DEPARTMENT
1/22/2026, 10:37:26 AM
K202409814
Jason Scheer

KERN COUNTY APPROVED BUILDING INSPECTION
DO NOT STORE DEBRIS OR KEEP EXCESS MATERIAL ON SITE
MILALLOSC
10/2/2025, 1:27:30 PM
K202409814
Clemente Milallos

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR
12-5-2024	BUILDING DEPARTMENT SUBMITTAL
5-27-2025	BUILDING DEPARTMENT RESUBMITTAL
9-16-2025	BUILDING DEPARTMENT RESUBMITTAL

REVISION	DESCRIPTION
1 5-27-25	BUILDING DEPARTMENT COMPLIANCE
2 9-16-25	BUILDING DEPARTMENT COMPLIANCE

JOB 7005	T100
DP AC/JV	
PM GJF	

FINISH MATERIAL CERTIFICATE - ARCHITECTURAL COATINGS

PERMIT #: K202409814

FINISH	WHERE USED (TYPE)	MANUFACTURER	VOC LIMIT (GPL)[1]	SUB. CONT. INITIALS
PAINTS & COATINGS				
FLAT COATINGS			50	
NON-FLAT COATINGS			100	
NON-FLAT HIGH GLOSS COATINGS			150	
SPECIALTY COATINGS				
ALUMINUM ROOF COATINGS			400	
BASEMENT SPECIALTY COATINGS			400	
BITUMINOUS ROOF COATING			50	
BITUMINOUS ROOF PRIMERS			350	
BOND BREAKERS			350	
CONCRETE CURING COMPOUNDS			350	
CONCRETE / MASONRY SEALERS			100	
DRIVEWAY SEALERS			50	
DRY FOG COATINGS			150	
FAUX FINISHING COATINGS			350	
FIRE RESISTIVE COATINGS			350	
FLOOR COVERINGS			100	
FORM-RELEASE COMPOUNDS			250	
GRAPHIC ARTS COATINGS (SIGN PAINTS)			500	
HIGH-TEMPERATURE COATINGS			420	
INDUSTRIAL MAINTENANCE COATINGS			250	
LOW SOLIDS COATINGS[2]			120	
MAGNESITE CEMENT COATINGS			450	
MASTIC TEXTURE COATINGS			100	
METALLIC PIGMENTED COATINGS			500	
MULTICOLOR COATINGS			250	
PRETREATMENT WASH PRIMERS			420	
SPECIALTY COATINGS				
PRIMERS, SEALERS & UNDERCOATERS			100	
REACTIVE PENETRATING SEALERS			350	
RECYCLED COATINGS			250	
ROOF COATINGS			50	
RUST PREVENTATIVE COATINGS			400/250[3]	
SHELLACS: CLEAR OPAQUE			730 550	
SPECIALTY PRIMERS, SEALERS, AND UNDERCOATERS			350/100[3]	
STAINS			250	
STONE CONSOLIDANTS			450	
SWIMMING POOL COATINGS			340	
TRAFFIC MARKING COATINGS			100	
TUB AND TILE REFINISH COATINGS			420	
WATERPROOFING MEMBRANES			250	
WOOD COATINGS			275	
WOOD PRESERVATIVES			350	
ZINC-RICH PRIMERS			340	

CONTRACTOR (DOCUMENTATION AUTHOR'S / RESPONSIBLE DESIGNER'S DECLARATION STATEMENT)

1. (GPL) = GRAMS PER LITER OF COATING.
2. GRAMS OF V.O.C. PER LITER OF COATING, INCLUDING WATER AND INCLUDING EXEMPT COMPOUNDS.
3. EFFECTIVE ON JANUARY 2012:

- *I CERTIFY THAT THE FEATURES AND PERFORMANCE SPECIFICATIONS FOR THE DESIGN IDENTIFIED ON THIS CERTIFICATE OF COMPLIANCE CONFORM TO THE REQUIREMENTS OF TITLE 24, PARTS 11 OF THE CALIFORNIA CODE OF REGULATIONS.*
- *THE DESIGN FEATURES IDENTIFIED ON THIS CERTIFICATE OF COMPLIANCE ARE CONSISTENT WITH THE INFORMATION DOCUMENTED ON OTHER APPLICABLE COMPLIANCE FORMS, WORKSHEETS, CALCULATIONS, PLANS AND SPECIFICATIONS SUBMITTED TO THE ENFORCEMENT AGENCY FOR APPROVAL WITH THE PERMIT APPLICATION.*

SIGNATURE:	
COMPANY:	***DATE:***
ADDRESS:	***LICENSE:***
CITY/STATE/ZIP:	***PHONE:***

FINISH MATERIAL CERTIFICATE - ADHESIVES & SEALANTS

PERMIT #: K202409814

FINISH	WHERE USED (TYPE)	MANUFACTURER	VOC LIMIT (GPL)[1,2]	SUB. CONT. INITIALS
PAINTS & COATINGS				
INDOOR CARPET ADHESIVES			50	
CARPET PAD ADHESIVES			50	
OUTDOOR CARPET ADHESIVES			150	
WOOD FLOORING ADHESIVES			100	
RUBBER FLOOR ADHESIVES			60	
SUBFLOOR ADHESIVES			50	
CERAMIC TILE ADHESIVES			65	
VCT AND ASPHALT TILE ADHESIVES			50	
DRYWALL & PANEL ADHESIVES	WALL SURFACE		50	
COVE BASE ADHESIVES	FLOOR BASE		50	
MULTI-PURPOSE CONSTRUCTION ADHESIVES	VARIES		70	
STRUCTURAL GLAZING ADHESIVES	GLAZING		100	
SINGLE-PLY ADHESIVES	ROOF		250	
OTHER ADHESIVE NOT SPECIFICALLY LISTED			50	
SPECIALTY APPLICATIONS				
PVC WELDING			510	
CPVC WELDING			490	
ABS WELDING			325	
PLASTIC CEMENT WELDING			250	
ADHESIVE PRIMER FOR PLASTIC			550	
CONTACT ADHESIVE			80	
SPECIAL PURPOSE CONTACT			250	
STRUCTURAL WOOD MEMBER			140	
TOP AND TRIM ADHESIVE			250	
SUBSTRATE SPECIFIC APPLICATION				
METAL TO METAL			30	
PLASTIC FOAMS / POROUS MATERIAL			50	
WOOD			30	
FIBERGLASS			80	
SEALANTS & CAULKS				
ARCHITECTURAL			250	
MARINE DECK			760	
NONMEMBRANE ROOF			300	
ROADWAY			250	
SINGLE-PLY ROOF MEMBRANE			450	
OTHER			420	
SEALANT PRIMERS				
ARCHITECTURAL NONPOROUS ARCHITECTURAL POROUS			250 775	
MODIFIED BITUMINOUS			500	
MARINE DECK			760	
OTHER			750	

1. (GPL) = GRAMS PER LITER
2. WHERE NO LOCAL OR REGIONAL AIR POLLUTION CONTROL OR QUALITY MANAGEMENT DISTRICT RULES ARE APPLICABLE, USE THE V.O.C. LIMITS IN THIS TABLE

CONTRACTOR (DOCUMENTATION AUTHOR'S / RESPONSIBLE DESIGNER'S DECLARATION STATEMENT)

- *I CERTIFY THAT THIS CERTIFICATE OF COMPLIANCE DOCUMENTATION IS ACCURATE AND COMPLETE.*
- *I CERTIFY THAT THE FEATURES AND PERFORMANCE SPECIFICATIONS FOR THE DESIGN IDENTIFIED ON THIS CERTIFICATE OF COMPLIANCE CONFORM TO THE REQUIREMENTS OF TITLE 24, PARTS 11 OF THE CALIFORNIA CODE OF REGULATIONS.*
- *THE DESIGN FEATURES IDENTIFIED ON THIS CERTIFICATE OF COMPLIANCE ARE CONSISTENT WITH THE INFORMATION DOCUMENTED ON OTHER APPLICABLE COMPLIANCE FORMS, WORKSHEETS, CALCULATIONS, PLANS AND SPECIFICATIONS SUBMITTED TO THE ENFORCEMENT AGENCY FOR APPROVAL WITH THE PERMIT APPLICATION.*

SIGNATURE:	
COMPANY:	***DATE:***
ADDRESS:	***LICENSE:***
CITY/STATE/ZIP:	***PHONE:***

FINISH MATERIAL CERTIFICATE - FLOORING (CARPET, CARPET CUSHION, & RESILIENT)

PERMIT #: K202409814

FINISH	MANUFACTURER	CERTIFIED ORGANIZATION	SUB. CONT. INITIALS
CARPET 1		CARPET AND RUG INSTITUTE – GREEN LABEL PLUS PROGRAM	
		SPECIFICATION 01350	
		NSF / ANSI 140 – GOLD	
		SCIENTIFIC CERTIFICATION SYSTEMS – SUSTAINABLE CHOICE	
CARPET 2		CARPET AND RUG INSTITUTE – GREEN LABEL PLUS PROGRAM	
		SPECIFICATION 01350	
		NSF / ANSI 140 – GOLD	
		SCIENTIFIC CERTIFICATION SYSTEMS – SUSTAINABLE CHOICE	
CARPET CUSHION 1		CARPET AND RUG INSTITUTE – GREEN LABEL PLUS PROGRAM	
CARPET CUSHION 2		CARPET AND RUG INSTITUTE – GREEN LABEL PLUS PROGRAM	
RESILIENT FLOORING 1		CHPS PRODUCT REGISTRY	
		RFCI – FLOOR SCORE PROGRAM	
		GREENGUARD CHILDREN & SCHOOLS	
RESILIENT FLOORING 2		CHPS PRODUCT REGISTRY	
		RFCI – FLOOR SCORE PROGRAM	
		GREENGUARD CHILDREN & SCHOOLS	

CONTRACTOR (DOCUMENTATION AUTHOR'S / RESPONSIBLE DESIGNER'S DECLARATION STATEMENT)

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- *I CERTIFY THAT THE FEATURES AND PERFORMANCE SPECIFICATIONS FOR THE DESIGN IDENTIFIED ON THIS CERTIFICATE OF COMPLIANCE CONFORM TO THE REQUIREMENTS OF TITLE 24, PARTS 11 OF THE CALIFORNIA CODE OF REGULATIONS.*
- *THE DESIGN FEATURES IDENTIFIED ON THIS CERTIFICATE OF COMPLIANCE ARE CONSISTENT WITH THE INFORMATION DOCUMENTED ON OTHER APPLICABLE COMPLIANCE FORMS, WORKSHEETS, CALCULATIONS, PLANS AND SPECIFICATIONS SUBMITTED TO THE ENFORCEMENT AGENCY FOR APPROVAL WITH THE PERMIT APPLICATION.*

SIGNATURE:	
COMPANY:	***DATE:***
ADDRESS:	***LICENSE:***
CITY/STATE/ZIP:	***PHONE:***

CONSTRUCTION WASTE MANAGEMENT (CWM) ACKNOWLEDGEMENT

NOTE: THIS SAMPLE FORM MAY BE USED TO ASSIST DOCUMENTING COMPLIANCE WITH THE WASTE MANAGEMENT PLAN.

PERMIT #: PERMIT # K202409814
PROJECT NAME: PROJECT NAME: KERN COUNTY SPECIAL WASTE FACILITY - PARKING GARAGE
PROJECT MANAGER: PROJECT MANAGER:
WASTE HAULING CO: WASTE HAULING CO:

CWM PLAN ACKNOWLEDGEMENT

THE FOREMAN FOR EACH NEW SUBCONTRACTOR THAT COMES ON SITE IS TO RECEIVE A COPY OF THE CONSTRUCTION WASTE MANAGEMENT PLAN AND COMPLETE THIS ACKNOWLEDGEMENT FORM.

I HAVE READ THE WASTE MANAGEMENT PLAN FOR THE PROJECT; I UNDERSTAND THE GOALS OF THE PLAN AND AGREE TO FOLLOW THE PROCEDURES DESCRIBED IN THIS PLAN.

DATE	SUBCONTRACTOR COMPANY NAME	FOREMAN NAME	SIGNATURE

CONTRACTOR (DOCUMENTATION AUTHOR'S / RESPONSIBLE DESIGNER'S DECLARATION STATEMENT)

- *I CERTIFY THAT THIS CERTIFICATE OF COMPLIANCE DOCUMENTATION IS ACCURATE AND COMPLETE.*
- *I CERTIFY THAT THE FEATURES AND PERFORMANCE SPECIFICATIONS FOR THE DESIGN IDENTIFIED ON THIS CERTIFICATE OF COMPLIANCE CONFORM TO THE REQUIREMENTS OF TITLE 24, PARTS 11 OF THE CALIFORNIA CODE OF REGULATIONS.*
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SIGNATURE:	
COMPANY:	***DATE:***
ADDRESS:	***LICENSE:***
CITY/STATE/ZIP:	***PHONE:***

FINISH MATERIAL CERTIFICATE - COMPOSITE WOOD PRODUCTS

PERMIT #: K202409814

FINISH	FORMALDEHYDE LIMITS[1] (MAX. EMISSIONS IN PARTS PER MILLION)	EFFECTIVE JAN. 1, 2012	EFFECTIVE JULY 1, 2012	SUB. CONT. INITIALS
HARDWOOD PLYWOOD VENEER CORE	0.05			
HARDWOOD PLYWOOD COMPOSITE CORE	0.08		0.05	
PARTICLE BOARD	0.09			
MEDIUM DENSITY FIBERBOARD	0.11			
THIN MEDIUM DENSITY FIBERBOARD[2]	0.21	0.13		

1. VALUE IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS RESTED IN ACCORDANCE WITH ASTM E 1333-96 (2002). FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

CONTRACTOR (DOCUMENTATION AUTHOR'S / RESPONSIBLE DESIGNER'S DECLARATION STATEMENT)

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SIGNATURE:	
COMPANY:	***DATE:***
ADDRESS:	***LICENSE:***
CITY/STATE/ZIP:	***PHONE:***

CONSTRUCTION WASTE MANAGEMENT (CWM) WORKSHEET

NOTE: THIS SAMPLE TEMPLATE MAY BE USED TO ASSIST DOCUMENTING COMPLIANCE WITH THE WASTE MANAGEMENT PLAN.

PERMIT #: PERMIT # K202409814
PROJECT NAME: KERN COUNTY SPECIAL WASTE FACILITY - PARKING GARAGE
PROJECT MANAGER: PROJECT MANAGER
WASTE HAULING CO.: WASTE HAULING CO

CONSTRUCTION WASTE MANAGEMENT (CWM) PLAN			
WASTE MATERIAL TYPE	DIVERSION METHOD: COMMINGLED AND SORTED OFF-SITE:	DIVERSION METHOD: SOURCE-SEPARATED ON-SITE:	PROJECTED DIVERSION RATE
ASPHALT			
CONCRETE			
SHOTCRETE			
METAL			
WOOD			
RIGID INSULATION			
FIBERGLASS INSULATION			
ACOUSTIC CEILING TILE			
GYPSUM DRYWALL			
CARPET / CARPET PAD			
PLASTIC PIPE			
PLASTIC BUCKETS			
PLASTIC			
HARDIPLANK SIDING AND BOARDS			
GLASS			
CARDBOARD			
PALLETS			
JOB OFFICE TRASH, PAPER, GLASS & PLASTIC BOTTLES, & CANS			
ALKALINE AND RECHARGEABLE BATTERIES, TONER CARTRIDGES, & ELECTRONIC DEVICES			
OTHER:			
OTHER:			

CONTRACTOR (DOCUMENTATION AUTHOR'S / RESPONSIBLE DESIGNER'S DECLARATION STATEMENT)

- *I CERTIFY THAT THIS CERTIFICATE OF COMPLIANCE DOCUMENTATION IS ACCURATE AND COMPLETE.*
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SIGNATURE:	
COMPANY:	***DATE:***
ADDRESS:	***LICENSE:***
CITY/STATE/ZIP:	***PHONE:***

CONSTRUCTION WASTE MANAGEMENT (CWM) PLAN

NOTE: THIS SAMPLE TEMPLATE MAY BE USED TO ASSIST DOCUMENTING COMPLIANCE WITH THE WASTE MANAGEMENT PLAN.

PERMIT #: PERMIT # K202409814
PROJECT NAME: KERN COUNTY SPECIAL WASTE FACILITY - PARKING GARAGE
PROJECT MANAGER: PROJECT MANAGER
WASTE HAULING CO: WASTE HAULING CO
CONTACT NAME: CONTACT NAME

All Subcontractors shall comply with the project's Construction Waste Management Plan.

All Subcontractor foremen shall sign the CWM Plan Acknowledgement Sheet.

Subcontractor's who fail to comply with the Waste Management Plan will be subject to backcharges or withholding or payment, as deemed appropriate. For instance, Subcontractors who contaminate debris boxes that have been designated for a single material type will be subject to backcharge or withheld payments, as deemed appropriate

1. The project's overall rate of waste diversion will be 65 %.
2. This project shall generate the least amount of waste possible by planning and ordering carefully, following all proper storage and handling procedures to reduce broken and damaged materials and reusing materials wherever possible. The majority of the waste that is generated on this jobsite will be diverted from the landfill and recycled for other use.
3. Worksheet, enclosed, identifies the waste materials that will be generated on this project, the diversion strategy for each waste type and the anticipated diversion rate.
4. Waste prevention and recycling activities will be discussed at the beginning of the weekly subcontractor meetings. As each new subcontractor comes on-site, the WMP Coordinator will present him/her with a copy of the CWM Plan and provide a tour of the jobsite to identify materials to be salvaged and the procedures for handling jobsite debris. Each Subcontractor Acknowledgement sheet enclosed. The CWM Plan will be posted at the jobsite.
5. Salvage: Excess materials that cannot be used in the project, nor returned to the vendor, will be offered to site workers, the owner, or donated to charity if feasible.
6. _____ (Hauling Company), will provide a commingled drop box at the jobsite for most of the construction waste. These commingled drop boxes will be taken to _____ (Sorting Facility name and Location). The average diversion rate for commingled waste will be 65 %. As site conditions permit, additional drop boxes will be used for particular phases of construction (e.g. concrete and wood waste) to ensure the highest waste diversion rate possible.
7. In the event that the waste diversion rate achievable via the strategy described in (6) above, is projected to be lower than what is required, than a strategy of source-separated waste diversion and/or waste stream reduction will be implemented. Source separated waste refers to jobsite waste that into commingled but is instead allocated to a debris box designated for a single material type, such as clean wood or metal.
   1. Waste stream reduction refers to efforts taken by the builder to reduce the amount of waste generated by the project to be below four (4) pounds per square foot of building area.
   2. When using waste stream reduction measures, the gross weight of the product is subtracted from a base weight of four (4) pounds per square foot of building area. This reduction is considered additional diversion and can be used in the waste reduction percentage calculations.
8. _____ (Hauling Company), will track and calculate the quantity (in tons) of all waste leaving the project and calculate the waste diversion rate for the project. The Hauling Company will provide Project Manager with an updated monthly report on gross weight hauled and the waste diversion rate being achieved on the project. The Hauling Company's monthly report will track separately the gross weights and diversion rates for commingled debris and for each source-separated waste stream leaving the project. In the even that the Hauling Company does not service any or all of th debris boxes on the project, The Hauling Company, will work with the responsible parties to track the material type and weight (in tons) in such debris in order to determine waste diversion rates for these materials.
9. In the event that Subcontractors furnish their own debris boxes as part of their scope of work, Such Subcontractors shall not be excluded from complying with the CWM Plan and will provide Hauling Company weight and waste diversion data for their debris boxes.
10. In the event that site used constraints (such as limited space) restrict the number of debris boxes that can be used for collection of designated waste and the project Superintendent will, as deemed appropriate, allocate specific areas onsite where individual material types are to be consolidate. These collection points are not to be contaminated with non-designated waste types.
11. Debris from jobsite office and meeting rooms will be collected by _____ (Disposal Service Company). The Disposal Service Company will, at minimum, recycle office paper, plastic, metal and cardboard.

WASTE DISPOSAL AND POLLUTANT CONTROL NOTES

1. GENERAL CONTRACTOR SHALL ESTABLISH A CONSTRUCTION-WASTE MANAGEMENT PLAN FOR THE DIVERTED MATERIALS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT.
2. CONSTRUCTION WASTE MANAGEMENT PLAN. WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE THAT IS MORE STRINGENT, SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN FOR APPROVAL BY THE ENFORCEMENT AGENCY THAT:
   1) IDENTIFIES THE CONSTRUCTION & DEMOLITION WASTE MATERIAL TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
   2) DETERMINES IF CONSTRUCTION & DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM).
   3) IDENTIFIES DIVERSION FACILITIES WHERE CONSTRUCTION & DEMOLITION WASTE MATERIAL COLLECTED WILL BE TAKEN.
   4) SPECIFIES THAT THE AMOUNT OF CONSTRUCTION & DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.
3. WASTE MANAGEMENT COMPANY, UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION & DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH THIS SECTION.
4. WASTE STREAM REDUCTION ALTERNATIVE. THE COMBINED WEIGHT OF NEW CONSTRUCTION DISPOSAL THAT DOES NOT EXCEED TWO POUNDS PER SQUARE FOOT OF BUILDING AREA MAY BE DEEMED TO MEET THE 50 PERCENT MINIMUM REQUIREMENT AS APPROVED BY THE ENFORCING AGENCY.
5. DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH THE CONSTRUCTION WASTE MANAGEMENT PLAN ITEMS 1 THRU 4 ABOVE. THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY.
6. CONSTRUCTION WASTE REDUCTION OF AT LEAST 50%, RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 50% OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS, OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. CALCULATE THE AMOUNT OF MATERIALS DIVERTED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

   EXCEPTIONS:

   1) EXCAVATED SOIL AND LAND-CLEARING DEBRIS.
   2) ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST.
7. EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100% OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STOCKPILED ON SITE UNTIL THE STORAGE SITE IS DEVELOPED.
8. COMPOSITE WOOD AND AGRIFIBER PRODUCTS USED ON THE INTERIOR OF A BUILDING MUST CONTAIN NO ADDED UREA-FORMALDEHYDE RESINS.
9. ALL ADHESIVES SHALL NOT EXCEED THE VOLATILE ORGANIC COMPOUND (VOC) CONTENT AS SET FORTH IN TABLE 5.504.4.1
10. ALL ARCHITECTURAL COATINGS SHALL NOT EXCEED THE VOLATILE ORGANIC COMPOUND (VOC) CONTENT AS SET FORTH IN TABLE 5.504.4.3

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LICENSED ARCHITECT GREGORY FRANK NO. C-31980 REGISTERED ARCHITECT STATE OF CALIFORNIA RENEWAL 8/31/2025

APPROVED PER ENGR PROGRESSIVE SHT SEE MEMO

2/2/2026, 3:46:20 PM
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Dennis McNamara

KERN COUNTY APPROVED BUILDING INSPECTION
APPLICANT TO POST A COPY OF APPROVED PLANS AT JOB SITE AT ALL TIMES
MUST HAVE APPROVED PLANS ON JOB SITE BEFORE APPROVAL
MLALLOS
10/2/2025, 1:27:30 PM
K202409814
Clemente Milallos

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

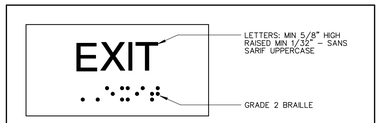
SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR
12-5-2024	BUILDING DEPARTMENT SUBMITTAL
5-27-2025	BUILDING DEPARTMENT RESUBMITTAL
9-16-2025	BUILDING DEPARTMENT RESUBMITTAL

REVISION	DESCRIPTION
1 5-27-25	BUILDING DEPARTMENT COMPLIANCE
2 9-16-25	BUILDING DEPARTMENT COMPLIANCE

2 PERMIT NUMBER ADDED

JOB 7005	T101
DP AC/JV	
PM GJF	



NOTES:

1. COLORS: BACKGROUND – BLUE | GRAPHIC – WHITE
2. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.
3. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. WHERE PROVIDED, SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL BE LOCATED AT THE ENTRANCE TO, AND OUTSIDE OF THE ROOM OR SPACE. WHERE PROVIDED, SIGNS IDENTIFYING EXITS SHALL BE LOCATED AT THE EXIT DOOR WHEN APPROACHED IN THE DIRECTION OF EGRESS TRAVEL. EXCEPTION: IN ALTERATIONS WHERE SIGN INSTALLATION LOCATIONS IDENTIFIED IN SECTION 11B-703.4.2 ARE OBSTRUCTED OR OTHERWISE UNAVAILABLE FOR SIGN INSTALLATION, SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.
4. TACTILE EXIT SIGNS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:

   A. EACH GRADE-LEVEL EXTERIOR EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD, "EXIT."

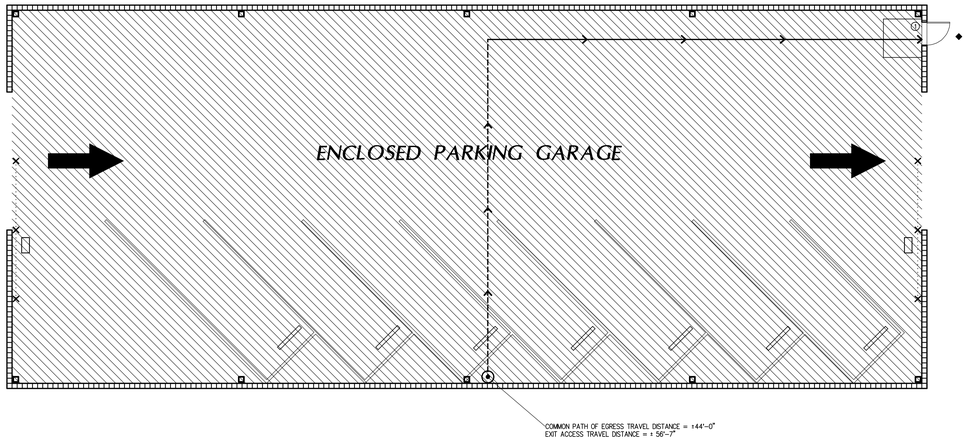
   B. EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE:
   1. "EXIT STAIR DOWN"
   2. "EXIT RAMP DOWN"
   3. "EXIT STAIR UP"
   4. "EXIT RAMP UP"

   C. EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE."

   D. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE."

   E. EACH EXIT DOOR THROUGH A HORIZONTAL EXIT THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1, SHALL BE IDENTIFIED BY A SIGN WITH THE WORDS "TO EXIT."
5. RAISED CHARACTER AND BRAILLE EXIT SIGNS SHALL COMPLY WITH CHAPTER 11A, SECTION 1143A OR CHAPTER 11B, SECTIONS 11B- 703.1, 11B-703.2, 11B-703.3 AND 11B-703.5.

1 *TACTILE EXITING SIGNAGE* 1"



N *OCCUPANCY LOAD/EXITING DIAGRAM* 1/8"

LEGEND

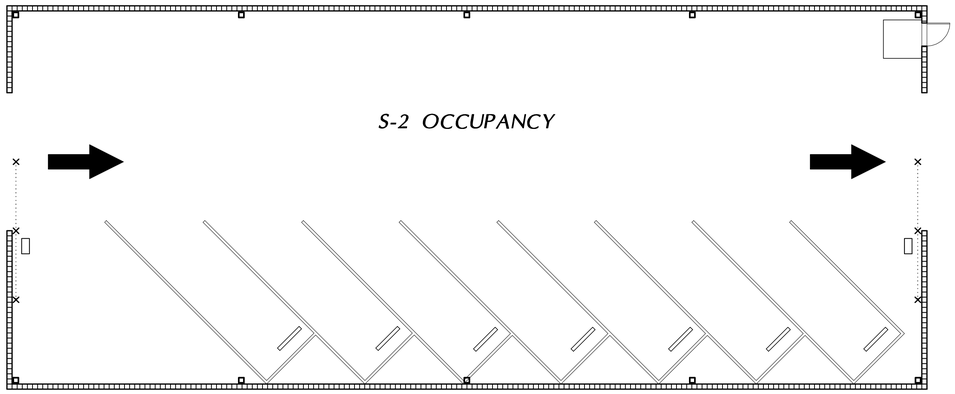
- ◆ PRIMARY EXIT – PROVIDE TACTILE EXIT SIGN ADJACENT TO DOOR PER DETAIL THIS SHEET
- ● REQUIRED EXIT – PROVIDE TACTILE EXIT SIGN ADJACENT TO DOOR PER DETAIL THIS SHEET
- ① "EXIT" TACTILE EXIT SIGN PER THIS SHEET
- ② "EXIT ROUTE" TACTILE EXIT SIGN PER THIS SHEET
- – – – DENOTES COMMON PATH OF EGRESS TRAVEL
- → DENOTES DIRECTION OF EXIT PATH

OCCUPANT LOAD

▨	PARKING GARAGES (5,775 S.F./200)	29 OCC
TOTAL EXITS REQUIRED		2 EXITS
TOTAL EXITS PROVIDED		1 EXIT

△1 ADDED DIAGRAM AND NOTES

△1 ADDED DETAIL



N *OCCUPANCY DIAGRAM* 1/8"

ALLOWABLE AREA

S-2 OCCUPANCY FLOOR AREA (SQUARE FEET), TYPE V-B CONSTRUCTION	5,775
EQUATION 5-1	
Ao=At+(NS×If) WHERE:	
Ao = ALLOWABLE AREA (SQUARE FEET)	64,125
At = TABULAR ALLOWABLE AREA FACTOR (SQUARE FEET), SW (WITHOUT HEIGHT INCREASE)	54,000
NS = TABULAR ALLOWABLE AREA FOR NONSPRINKLERED BUILDING (SQUARE FEET)	13,500
If = AREA FACTOR INCREASE FOR FRONTAGE, SECTION 506.3	75%
SUM OF RATIOS OF FLOOR AREAS TO ALLOWABLE AREAS	0.09 < 1, COMPLIES

BUILDING AREA AND HEIGHTS

BUILDING AREA:	6,000 SQ FT
ALLOWABLE AREA: (S-2 OCCUPANCY MOST RESTRICTIVE)	54,000 SQ.FT.
EQUATION 5-1	
Ao=At+(NS×If) WHERE:	64,125
Ao = ALLOWABLE AREA (SQ. FT.)	54,000
At = TABULAR ALLOWABLE AREA FACTOR (SQ. FT.), S1 SPRINKLERED	13,500
NS = TABULAR ALLOWABLE AREA FOR NONSPRINKLERED BUILDING (SQ. FT.)	75%
If = AREA FACTOR INCREASE FOR FRONTAGE, SECTION 506.3	
BUILDING HEIGHT:	22'-2"
ALLOWABLE BUILDING HEIGHT IN FEET (S" OCCUPANCY SPRINKLERED)	60 FEET
NUMBER OF STORIES:	1 STORY
ALLOWABLE NUMBER OF STORIES (S-2" OCCUPANCY, SPRINKLERED)	3 STORY

△1 REVISED/ADDED CALCULATIONS PER GENERAL HEIGHTS AND AREAS

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LICENSED ARCHITECT GREGORY FRANK NO. C-31980 RENEWAL 8/31/2025 STATE OF CALIFORNIA

APPROVED THE ONLY PLANS INSPECTED ARE SEE MEMO

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K202409814
Dennis McNamara

KERN COUNTY APPROVED BUILDING INSPECTION
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Clemente Mlallos

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

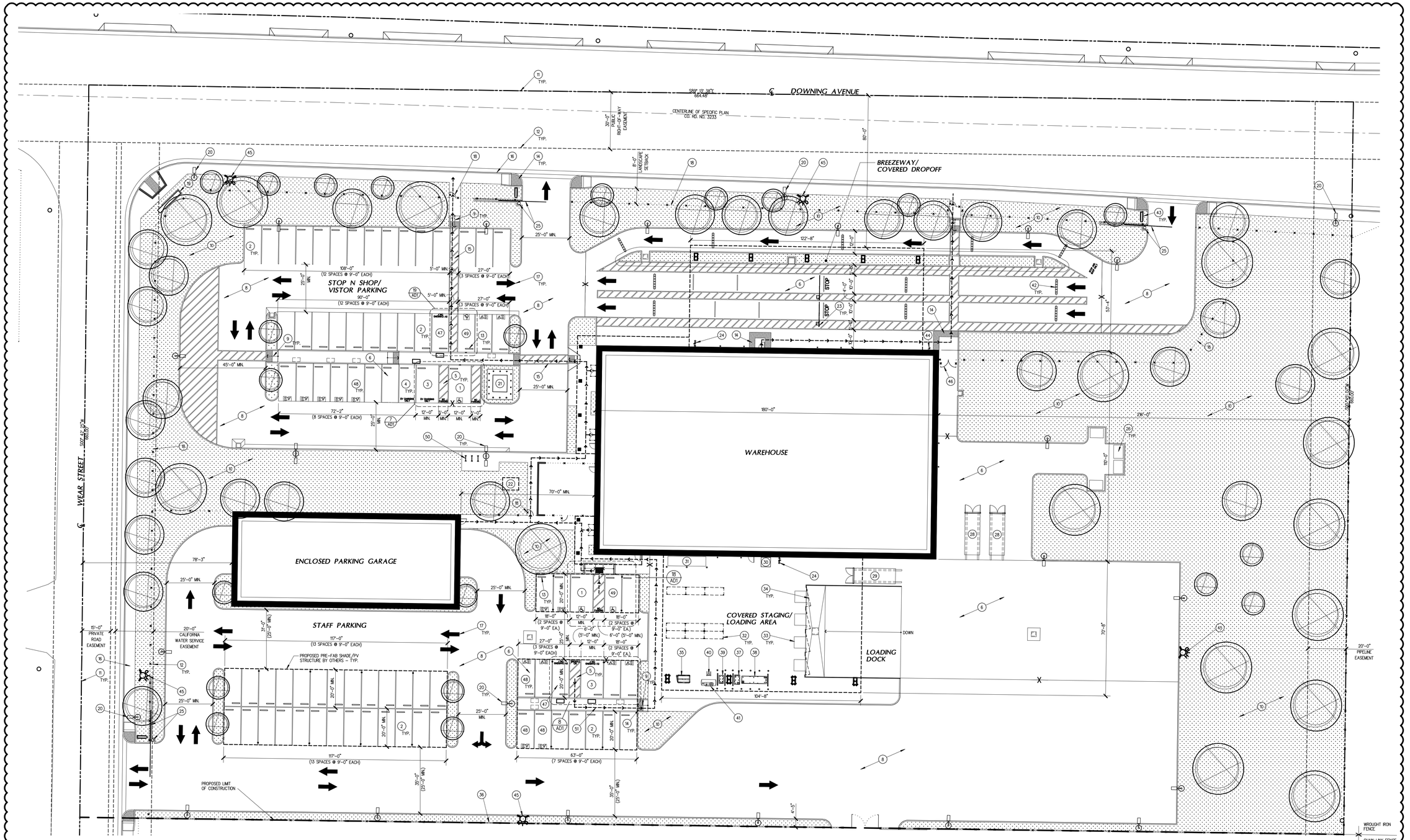
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR
12-5-2024	BUILDING DEPARTMENT SUBMITTAL
5-27-2025	BUILDING DEPARTMENT RESUBMITTAL
9-16-2025	BUILDING DEPARTMENT RESUBMITTAL

REVISION	DESCRIPTION
△1 5-27-25	BUILDING DEPARTMENT COMPLIANCE
△2 9-16-25	BUILDING DEPARTMENT COMPLIANCE

JOB 7005	T110
DP AC/JV	
PM GJF	



N

SITE PLAN

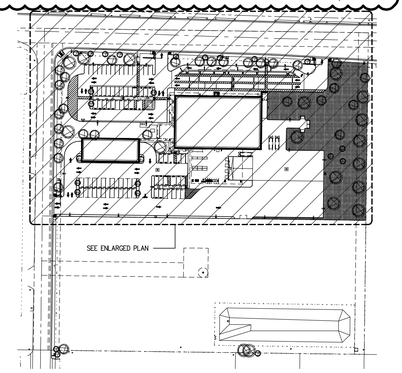
SITE KEY NOTES

1. 12'-0" WIDE x 20'-0" DEEP VAN ACCESSIBLE PARKING STALL – PROVIDE 3'x3' PAINTED SYMBOL (SEE DETAIL 1/AD1) AND POLE MOUNTED SIGN (SEE DETAIL 5/AD1) – PER COUNTY, ADA & TITLE24 STANDARDS
2. 9'-0" WIDE x 20'-0" DEEP PARKING STALL PER COUNTY STANDARDS
3. 12'-0" WIDE x 20'-0" DEEP ACCESSIBLE ELECTRC VEHICLE STALL w/ CHARGING STATION – PROVIDE POLE MOUNTED SIGN (SEE DETAIL 5/AD1) – PER COUNTY, ADA & TITLE24 STANDARDS
4. 9'-0" WIDE x 20'-0" DEEP ELECTRIC VEHICLE STALL w/ CHARGING STATION
5. 5'-0" WIDE ACCESSIBLE AISLE – PER COUNTY, ADA & TITLE24 STANDARDS
6. CONCRETE PAVING
7. 6" HIGH CONCRETE CURB
8. MIN. 2" TYPE B2 A.C. PAVING OVER 3" CLASS II AGGREGATE BASE PER CITY STANDARDS
9. ACCESSIBLE CURB RAMP – SLOPE NOT TO EXCEED 1:12 WITH A CROSS SLOPE NOT TO EXCEED 2% – PROVIDE A 48"x48" MINIMUM LANDING AT TOP AND BOTTOM OF RAMP – PER ADA & TITLE24 STANDARDS (SEE DETAIL AD12 AND 13) .
10. LANDSCAPE AREA – SEE LANDSCAPE PLANS
11. PROPERTY LINE
12. EASEMENT LINE
13. CONCRETE PARKING BUMPER
14. SHADED AREA REPRESENTS LOCATION OF TRUNCATED DOMES – SEE DETAIL 11/AD1 FOR ADDITIONAL INFORMATION
15. ACCESSIBLE CROSSING – 48" MINIMUM WIDTH w/ CROSS SLOPE NOT TO EXCEED 2% – PAINT 4" WIDE STRIPES AT 36" O.C. AT 45°
16. 5'-0" WIDE CONCRETE SIDEWALK, CURB AND GUTTER
17. DIRECTION OF TRAFFIC – PAINTED – TYPICAL
18. 8'-0" HIGH WROUGHT IRON FENCE AND 3'-0" WIDE GATE WHERE SHOWN – SEE DOOR NOTES & DETAIL 22/AD2 FOR REQUIRED GATE CLEARANCES
19. 15'-0" WIDE x 6'-2" HIGH MONUMENT SIGN WITH CONCRETE BASE – SEE DETAIL 22/AD1
20. HIGH EFFICIENCY POLE MOUNTED LUMINARE – SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION
21. PAD MOUNTED TRANSFORMER ON A CONCRETE PAD PER PG&E STANDARDS
22. ON SITE SEPTIC TANK
23. TRAFFIC ARM BY OTHERS
24. EYEWASH STATION BY OTHERS
25. 8'-0" HIGH ROLLING GATE w/ GATE MOTOR
26. EXPLOSIVE LOCKERS PROVIDED BY OWNER
27. NOT USED
28. GARBAGE BIN w/ 'C' CHANNELS SKIDS
29. LATEX BIN w/ 'C' CHANNELS SKIDS
30. IN-GROUND SCALE
31. PROPANE CAGE PROVIDED BY OWNER
32. PALLET RACKS
33. DOCK LEVELER
34. SWING-UP ARM DOCK SECURITY GATE
35. BALER PROVIDED BY OWNER
36. 8'-0" HIGH CHAIN LINK FENCE w/ VINYL SLATS
37. SMALL OIL POD PROVIDED BY OWNER
38. LARGE OIL POD PROVIDED BY OWNER
39. ANTIFREEZE POD PROVIDED BY OWNER
40. OIL FILTER CRUSHER PROVIDED BY OWNER
41. AIR COMPRESSOR PROVIDED BY OWNER
42. SPEED BUMPERS BY OTHERS
43. 5'-0" WIDE x 4'-2" HIGH MONUMENT SIGN WITH CONCRETE BASE – SEE DETAIL 20/AD1
44. FIRE SPRINKLER RISER
45. NEW FIRE HYDRANT LOCATION – SEE CIVIL PLAN
46. 8'-0" WIDE WROUGHT IRON GATE
47. 9'-0" WIDE x 20'-0" DEEP ACCESSIBLE ELECTRIC VEHICLE STALL w/ CHARGING STATION – PROVIDE POLE MOUNTED SIGN (SEE DETAIL 5/AD1) – PER COUNTY, ADA & TITLE24 STANDARDS
48. 9'-0" WIDE x 20'-0" DEEP EV CAPABLE PARKING STALL
49. 9'-0" WIDE x 20'-0" DEEP STANDARD ACCESSIBLE PARKING STALL – PROVIDE 3'x3' PAINTED SYMBOL (SEE DETAIL 1/AD1) AND POLE MOUNTED SIGN (SEE DETAIL 5/AD1) – PER COUNTY, ADA & TITLE24 STANDARDS
50. SHORT TERM BICYCLE PARKING RACKS PER CALGREEN SECTIONS 5.106.4.1.1
51. DASHED LINE DENOTES PATH OF TRAVEL FROM PUBLIC RIGHT OF WAY – 48" MINIMUM WIDTH w/ RUNNING SLOPE NOT TO EXCEED 5% & CROSS SLOPE NOT TO EXCEED 2%

GATE CLEARANCE REFERENCE HAS BEEN ADDED (2)

ADDED NOTE CLARIFYING PATH OF TRAVEL REQUIREMENTS (2)

20'



N

KEY PLAN N.S.

Skarphol/Frank Associates
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Paul Skarphol, Architect • Gregory Frank, Architect
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LICENSED ARCHITECT GREGORY FRANK NO. C-31980 REVISAL 8-'2025 STATE OF CALIFORNIA

2 1. DETECTABLE WARNING SURFACES HAVE BEEN ADDED TO NORTH SIDE OF BUILDING
2. ADDITIONAL ACCESSIBLE PARKING STALLS HAVE BEEN ADDED
3. ACCESSIBLE PATH OF TRAVEL FROM STAFF PARKING HAS BEEN ADDED
4. ADDITIONAL EV ACCESSIBLE PARKING STALLS HAVE BEEN ADDED

SEE MEMO

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K202409814
Dennis McNamara

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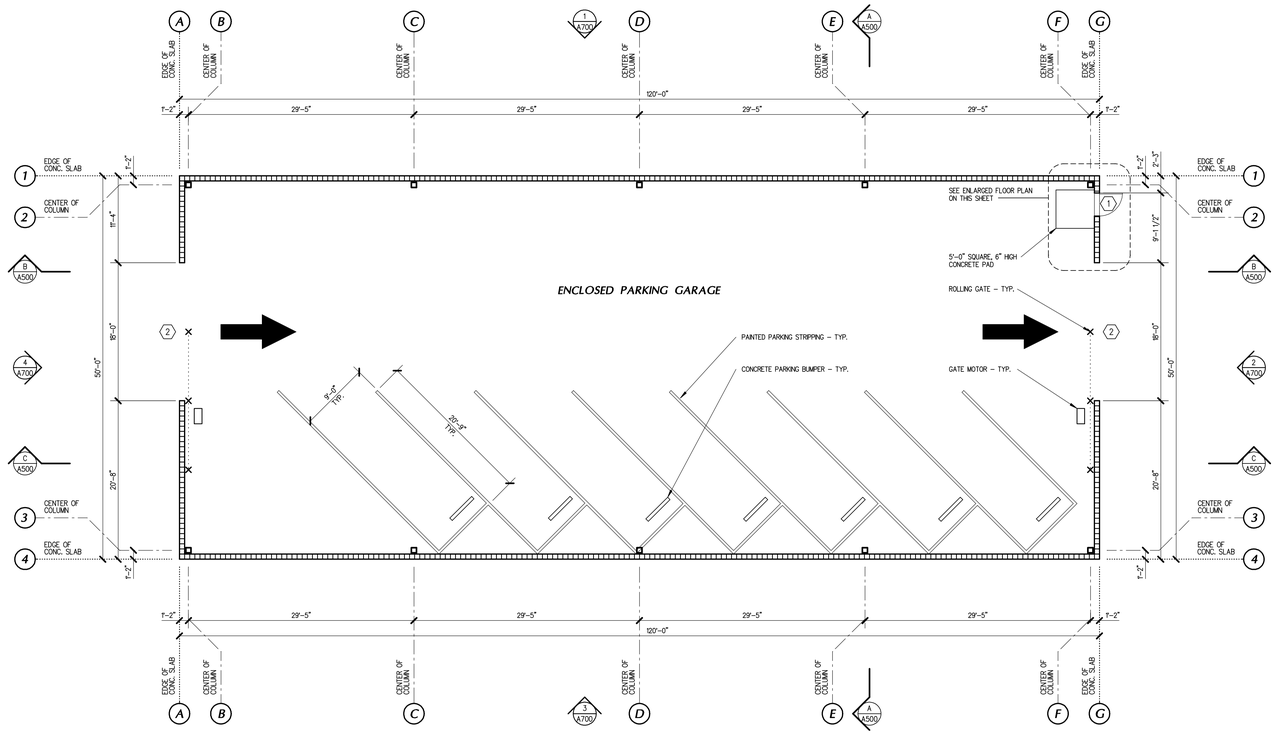
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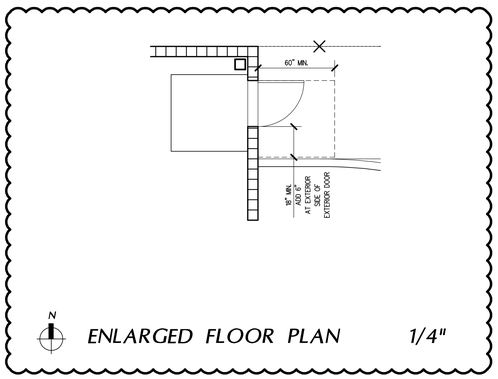
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JOB 7005	A100
DP AC/JV	
PM GJF	



N

FLOOR PLAN 1/8"



N

ENLARGED FLOOR PLAN 1/4"

A ADDED PLAN

WALL LEGEND

6" CONCRETE MASONRY UNIT EXTERIOR WALL

FLOOR PLAN NOTES

1. UNLESS OTHERWISE NOTED, PLAN DIMENSIONS SHALL BE TO FACE OF STUDS, CENTERLINES OF COLUMN GRID, NOMINAL SURFACE OF MASONRY AND FACE OF CONCRETE WALLS. REFER TO ENLARGED FLOOR PLANS FOR REQUIRED CLEAR FLOOR SPACE DIMENSIONS. THE MOST RESTRICTIVE DIMENSION AND/OR CLEARANCE SHALL GOVERN.
2. REFER TO STRUCTURAL DRAWINGS FOR SLAB THICKNESS AND REINFORCING REQUIREMENTS. PROVIDE 15 MIL. STEGO WRAP VAPOR BARRIER.
3. PROVIDE "VAPORLOCK 20/20" CONCRETE ADMIXTURE FOR WATERPROOFING BY "SPECIALTY PRODUCTS GROUP SPG" OR APPROVED EQUAL.
4. PROVIDE TERMITE PRE-TREATMENT CONTROL TO SOILS SURROUNDING FOUNDATION.

DOOR SCHEDULE / NOTES

PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION

1. 3'-0" x 7'-0" INSULATED HOLLOW METAL DOOR w/ 10" MIN. KICKPLATE – 60 MINUTE FIRE RATED DOOR & FRAME w/ LABELS
2. 18'-0" x 12'-0" WROUGHT IRON ROLLING GATE – DARK BRONZE ANODIZED

1. INSTALL "SCHLAGE" LATCH SETS w/ "SATURN 626" HANDLES – U.N.O.
2. ALL HINGES, DOOR STOPS, PUSH/PULL PLATES & KICK PLATES SHALL BE "IVES ARCHITECTURAL HARDWARE PRODUCTS" OR EQUAL.
3. INSTALL METAL THRESHOLDS AND WEATHERSTRIPPING ON ALL EXTERIOR DOORS.
4. ALL DOOR AND SIDELITE FRAMES SHALL BE BY "ALPHA ALUMINUM" OR EQUAL w/ CLEAR ANODIZED FINISH – U.N.O.
5. ALL DOOR HARDWARE SHALL HAVE STAINLESS STEEL, BRUSHED ALUMINUM, OR SIMILAR FINISH.
6. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
7. PROVIDE A READILY VISIBLE, DURABLE SIGN ADJACENT TO ENTRY DOORS STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS". THE SIGN SHALL BE IN LETTERS NOT LESS THAN 1" HIGH ON A CONTRASTING BACKGROUND. THE LOCKING DEVICE SHALL BE A TYPE THAT IS READILY DISTINGUISHABLE AS LOCKED.
8. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOORS MAY BE USED TO MEET REQUIREMENTS. FIRE RATED DOORS MAY BE INCREASED TO 15 LBS.
9. THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF A DOOR. THE FLOOR OR LANDING SHALL BE AT THE SAME ELEVATION ON EACH SIDE OF THE DOOR. LANDINGS SHALL BE LEVELED EXCEPT FOR EXTERIOR LANDINGS WHICH ARE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 2% SLOPE.
10. THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2" LOWER THAN THE THRESHOLD OF ANY DOORWAY. CHANGES IN LEVEL BETWEEN 1/4" MIN. HIGH AND 1/2" MAX. HIGH SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.
11. DOOR AND GATES HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34" MIN. AND 44" MAX. ABOVE FINISHED FLOOR.
12. VERIFY LOCK SETS & KEYING WITH TENANT
13. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
14. PER SECTION 1709.5.2.1, ROLLING DOORS SHALL BE TESTED IN ACCORDANCE WITH EITHER ASTM E330 OR ANSI/DASMA 108 AND SHALL MEET THE PASS/FAIL CRITERIA OF ANSI/DASMA 108. GARAGE DOORS AND ROLLING DOORS SHALL BE LABELED WITH A PERMANENT LABEL IDENTIFYING THE DOOR MANUFACTURER, THE DOOR MODEL/SERIES NUMBER, THE POSITIVE AND NEGATIVE DESIGN WIND PRESSURE RATING, THE INSTALLATION INSTRUCTION DRAWING REFERENCE NUMBER, AND THE APPLICABLE TEST STANDARD.

A ADDED NOTE

FINISH NOTES

1. TAPE, SAND, PROVIDE LIGHT SKIP TROWEL FINISH AND PAINT ALL EXPOSED GYPSUM BOARD IN A SATIN FINISH.
2. PAINT ALL DOORS WITH PROJECT FIELD COLOR – U.N.O.
3. LAMINATE PLASTICS SHALL BE BY "WILSONART". SEE INTERIOR ELEVATIONS FOR EXACT LOCATIONS.
4. INSTALL WINDOW COVERINGS AT ALL EXTERIOR GLAZING – VERIFY STYLE WITH ARCHITECT & TENANT
5. FINAL COLORS SHALL BE SELECTED BY ARCHITECT U.N.O.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING FINISH SUBMITTALS TO ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR IS RESPONSIBLE FOR ANY FINISHES THAT ARE NOT APPROVED IN WRITING BY ARCHITECT.
7. INTERIOR PAINT SHALL HAVE A VOLATILE ORGANIC COMPOUND (VOC) CONTENT OF LESS THAN 50 G/L FOR FLAT COATINGS, LESS THAN 100 G/L FOR NON-FLAT COATINGS, OR LESS THAN 150 G/L FOR NON-FLAT HIGH-GLOSS COATINGS AND MUST COMPLY WITH GREEN SEAL STANDARD GS-11, PAINTS, 1ST EDITION, MAY 20 1993.
8. INDOOR CARPET & CARPET PAD ADHESIVES SHALL HAVE A VOLATILE ORGANIC COMPOUND (VOC) CONTENT OF LESS THAN 50 G/L AND MUST COMPLY WITH SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE # 1168.
9. COMPOSITE WOOD AND AGRIFIBER PRODUCTS USED ON THE INTERIOR OF A BUILDING MUST CONTAIN NO ADDED UREA-FORMALDEHYDE RESINS.
10. PROVIDE AN ATTIC STOCK OF 2% OF THE TOTAL CARPET AREA FOR EACH TYPE AND/OR COLOR OF CARPET TILES TO A MAXIMUM OF 100 SQUARE YARDS FROM THE SAME DYE-LOT FOR FUTURE REPAIRS.
11. FLOAT FLOORING BETWEEN DIFFERENT MATERIALS FOR A SMOOTH TRANSITION. SLOPE SHALL BE NO GREATER THAT 1:20.
12. PROVIDE ALUMINUM TRIM/TRANSITION (SCHEIN BY "SCHLUTER" OR EQUAL) AT ALL MATERIAL TRANSITIONS – VERIFY STYLE & COLOR WITH ARCHITECT.
13. INTERIOR FLOORING FINISHES SHALL BE CLASS II MATERIALS MIN. (OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450)
14. INTERIOR WALL & CEILING FINISHES SHALL BE CLASS B MIN. (FLAME SPREAD INDEX 26-75; SMOKE DEVELOPED INDEX 0-450)

1 NOTES HAS BEEN ADDED TO CLARIFY INTERIOR FINISHES

Skarphol/Frank Associates
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Bakersfield, CA 93301
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LICENSED ARCHITECT GREGORY FRANK NO. C-31980 RENEWAL 8/31/2025 STATE OF CALIFORNIA

APPROVED PER KERN PLANNING DEPT SEE MEMO

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Dennis McNamara

KERN COUNTY APPROVED BUILDING INSPECTION
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KERN COUNTY APPROVED BUILDING INSPECTION
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Clemente Milallos

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR
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JOB 7005	A210
DP AC/JV	
PM GJF	

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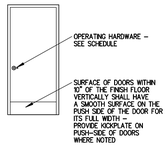
DOOR SCHEDULE

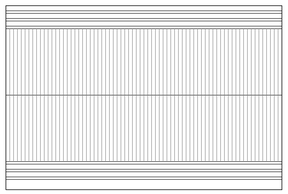
DOOR NO.	LOCATION	DOOR DESCRIPTION	DOOR TYPE	DOOR FINISH	HARDWARE SET	CARD READER	DOOR FRAME	FRAME FINISH	REQUIRED SIGNAGE (NOT INCLUDING TENANT ROOM IDENTIFICATION)	ADDITIONAL HARDWARE/ MISC.	REMARKS
1	EXTERIOR TO ENCLOSED PARKING GARAGE	180120 WROUGHT IRON ROLLING GATE	B					DARK BRONZE ANODIZED			
2	EXTERIOR TO ENCLOSED PARKING GARAGE	3070 INSULATED METAL	A	PAINT			HOLLOW METAL	PAINT		60 MINUTE FIRE RATED DOOR & FRAME w/ LABELS	

DOOR NOTES

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DOOR TYPES / FRAMES





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LICENSED ARCHITECT GREGORY FRANK No. C-31980 RENEWAL 8/31/2025 STATE OF CALIFORNIA

APPROVED PER ENVIRONMENTAL HEALTH SEE MEMO

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Dennis McNamara

KERN COUNTY APPROVED BUILDING INSPECTION
MEETS PLANNING APPROVAL
DEVELOPMENT SERVICES AGENCY
MLALLOS

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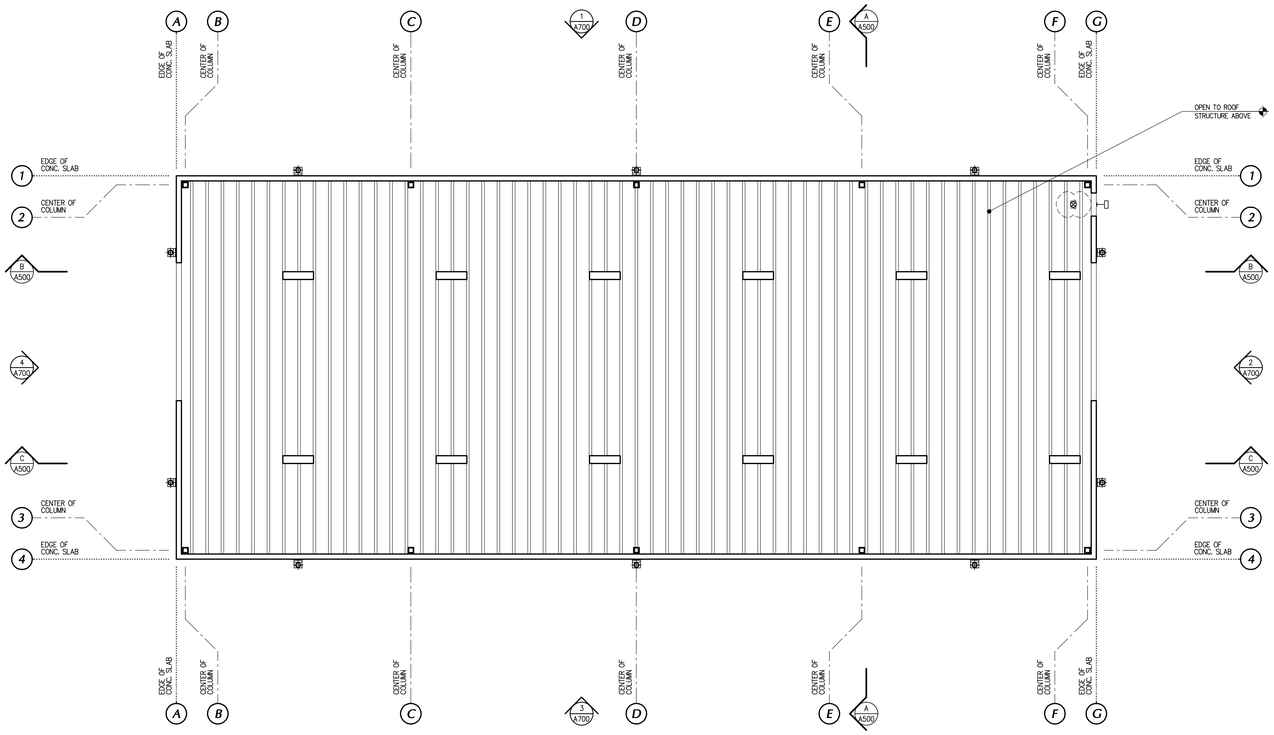
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JOB 7005	A211
DP AC/JV	
PM GJF	



N

REFLECTED CEILING PLAN

1/8"

CEILING PLAN NOTES

1. LOCATION OF ALL FIRE SPRINKLERS IS SUBJECT TO APPROVAL BY THE FIRE MARSHAL
2. PROVIDE ALL NECESSARY HARDWARE FOR A COMPLETE INSTALLATION

CEILING LEGEND

- 1'x4' SURFACE MOUNTED LED LIGHT FIXTURE – TO BE SELECTED
- EXTERIOR WALL LUMINARE – BOTTOM @ +10'-0" A.F.F. U.N.O. LIGHT FIXTURE – BEGA 334LED.537 COLOR: TO BE SELECTED
- EXTERIOR EMERGENCY WALL LUMINARE w/ BACKUP BATTERY – BOTTOM @ +8'-0" A.F.F. U.N.O. LIGHT FIXTURE – TO BE SELECTED COLOR: TO BE SELECTED
- ILLUMINATED EXIT SIGN WITH 90 MINUTE BATTERY BACKUP PER C.B.C. REQUIREMENTS
- 1 EXIT LIGHT ADDED PER EGRESS REQUIREMENT

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LICENSED ARCHITECT
GREGORY FRANK
No. C-31980
REGISTRATION EXPIRES: 08/31/2025
STATE OF CALIFORNIA

APPROVED
THE PLANS FOR PERMIT(S) LISTED
SEE MEMO
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K202409814
Dennis McNamara

KERN COUNTY
APPROVED
BUILDING INSPECTION
MILALLOSC
10/2/2025, 1:27:30 PM
K202409814
Clemente Milallos

NOT VALID WITHOUT CERTIFIED APPROVED SET
MUST BE KEPT ON JOB SITE WITHOUT APPROVAL

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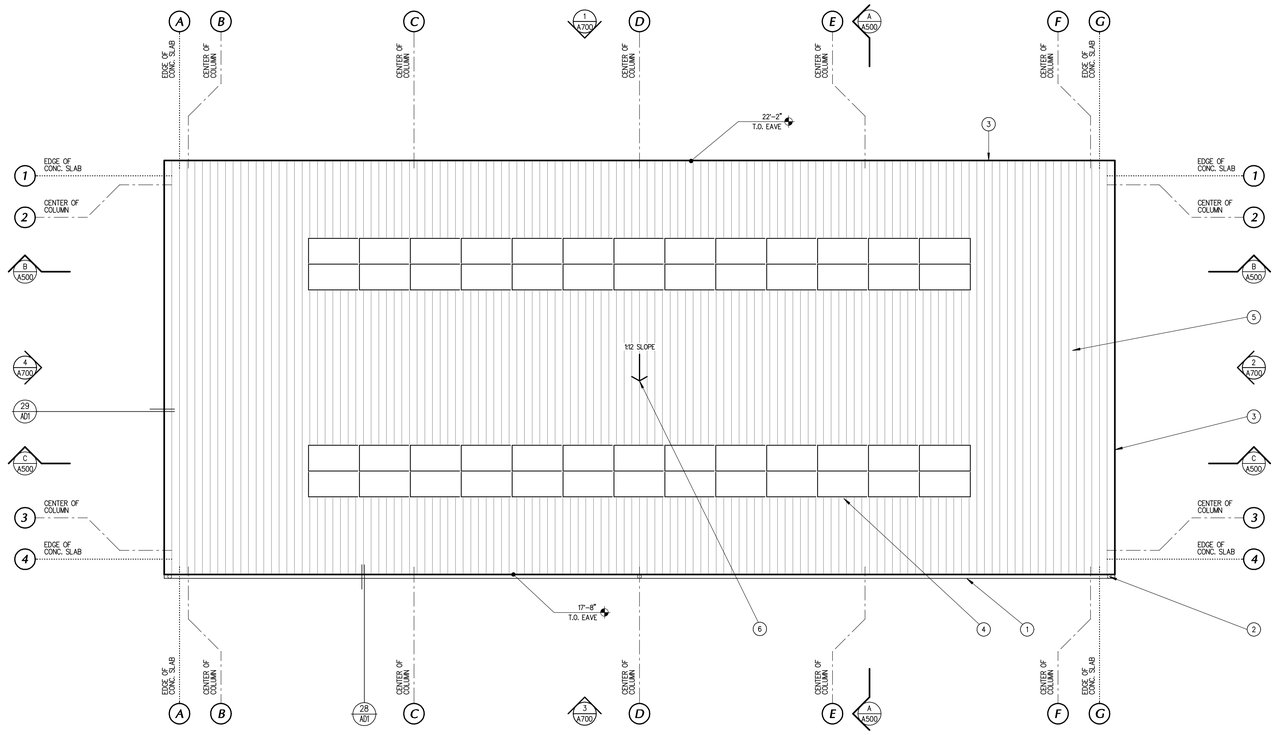
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JOB 7005	A310
DP AC/JV	
PM GJF	



N

ROOF PLAN

1/8"

KEYNOTES

1. EXTERIOR RAIN GUTTER
2. LOCATION OF SHEET METAL DOWNSPOUT
3. EDGE OF ROOF CONSTRUCTION
4. LOCATION OF PHOTOVOLTAIC PANELS
5. "AEP SPAN", "SPANSEAM" ROOF METAL PANEL SYSTEM – INSTALL PER MANUFACTURE INSTRUCTIONS
6. DIRECTION OF ROOF SLOPE

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GREGORY FRANK
NO. C-31980
RENEWAL 8/31/2025
STATE OF CALIFORNIA

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A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

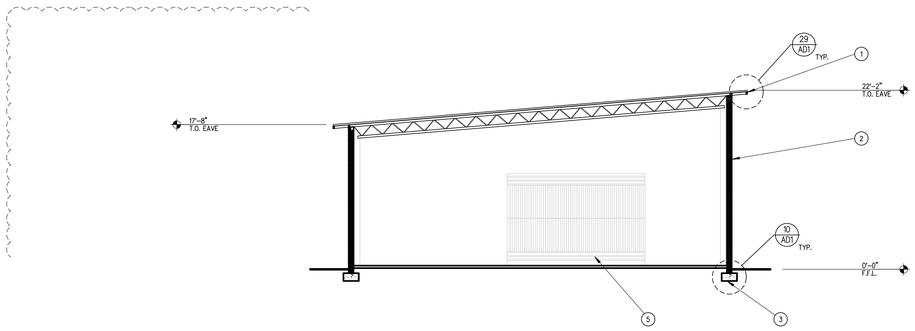
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST BAKERSFIELD, CALIFORNIA

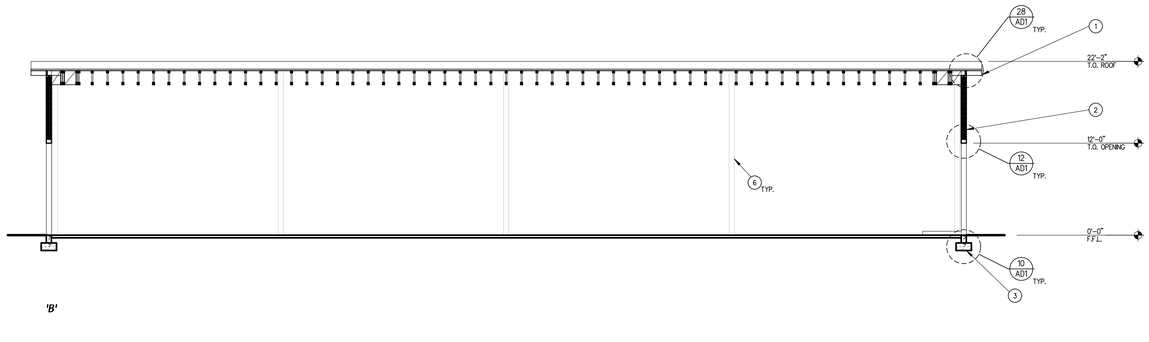
DATE	ISSUED FOR
12-5-2024	BUILDING DEPARTMENT SUBMITTAL
5-27-2025	BUILDING DEPARTMENT RESUBMITTAL
9-16-2025	BUILDING DEPARTMENT RESUBMITTAL

REVISION	DESCRIPTION
1 5-27-25	BUILDING DEPARTMENT COMPLIANCE
2 9-16-25	BUILDING DEPARTMENT COMPLIANCE

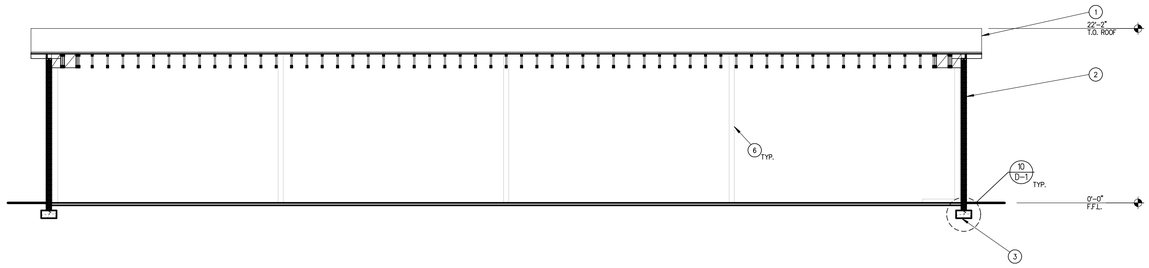
JOB 7005	A400
DP AC/JV	
PM GJF	



'A'



'B'



'C'

SECTIONS

1/8"

1 DETAIL KEYNOTES ADDED AND HEIGHTS

KEYNOTES

1. METAL ROOF PANELS w/ WEATHER BARRIER w/ PLYWOOD SHEATHING w/ ROOF TRUSSES
2. CONCRETE MASONRY UNIT WALL – SEE PLAN
3. CONCRETE FOUNDATION – SEE PLAN
4. DOOR – SEE PLAN
5. ROLLING GATE – SEE PLAN
6. STRUCTURAL COLUMN – SEE PLAN

1 REVISED NOTES FOR CLARIFICATION

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RENEWAL 8/31/2025
STATE OF CALIFORNIA

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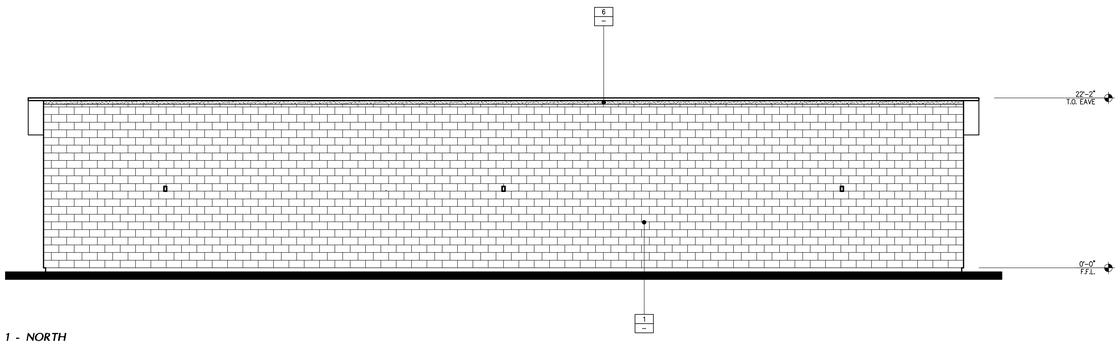
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

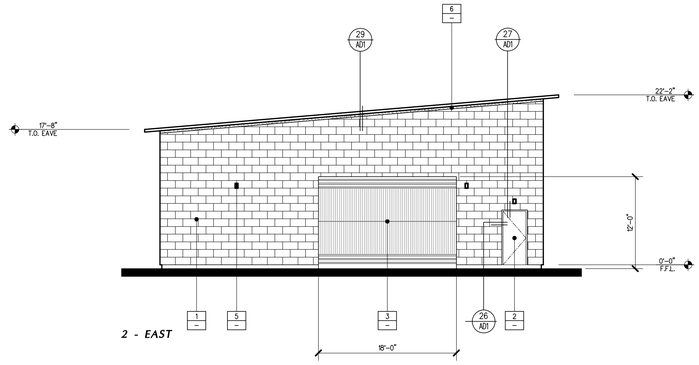
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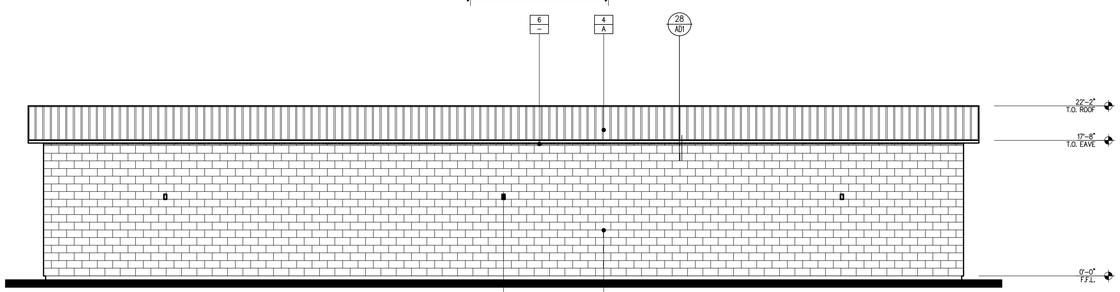
JOB 7005	
DP AC/JV	A500
PM GJF	



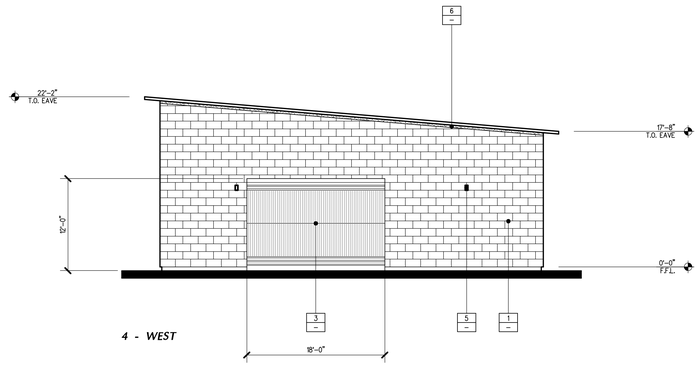
1 - NORTH



2 - EAST



3 - SOUTH



4 - WEST

EXTERIOR ELEVATIONS

1/8"

EXTERIOR FINISH SCHEDULE

X — FINISH
X — COLOR

FINISH

1. CONCRETE MASONRY UNIT – SEE PLAN
2. DOOR AND FRAME – SEE PLAN
3. ROLLING GATE – SEE PLAN
4. "AEP SPAN" – "SPANSEAM" METAL ROOF PANEL SYSTEM
5. EXTERIOR WALL SCONCE
6. CEMENT PLASTER FINISH

COLOR

A. "OLD TOWN GARY" DURA TECH 5000

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No. C-31980
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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KEEP APPROVED PLANS ON JOB
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Clemente Milallos

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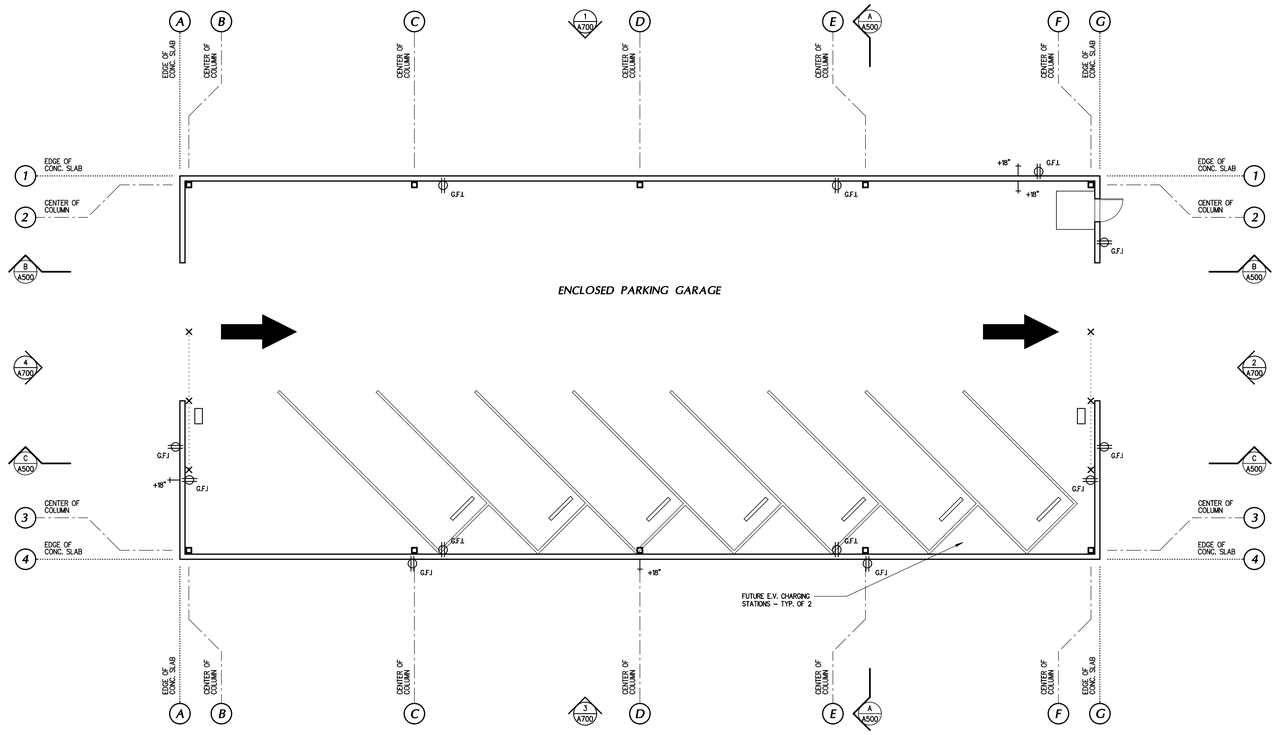
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
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JOB 7005	A700
DP AC/JV	
PM GJF	



ENCLOSED PARKING GARAGE

N

POWER & SIGNAL PLAN

1/8"

POWER & SIGNAL NOTES

1. POWER AND SIGNAL LOCATIONS ON THIS PLAN ARE ONLY APPROXIMATE – AFTER WALLS ARE FRAMED C.C. SHALL WALK OWNER THROUGH JOB-SITE AND FIELD VERIFY EXACT LOCATIONS OF ALL POWER AND SIGNAL JUNCTION BOXES.
2. CONTRACTOR IS RESPONSIBLE FOR ANY DESIGN BUILD DRAWINGS REQUIRED FOR PERMITTING
3. GENERAL CONTRACTOR SHALL COORDINATE WITH THE SYSTEMS FURNITURE SUPPLIER ALL DATA AND ELECTRICAL REQUIREMENTS TO FURNITURE AND METHODS AND POINTS OF CONNECTION
4. DEDICATED CIRCUITS ARE NOT SHOWN ON THIS PLAN – VERIFY ANY DEDICATED CIRCUIT REQUIREMENTS AND LOCATIONS WITH TENANT

POWER & SIGNAL LEGEND

NEW

- DUPLEX RECEPTACLE w/ LOCKING BOX
- HOSE BIBB

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SEE APPROVED DRAWINGS FOR ADDITIONAL REQUIREMENTS
MEETS CURRENT MECHANICAL CODE
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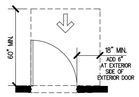
REVISION	DESCRIPTION
1 5-27-25	BUILDING DEPARTMENT COMPLIANCE

JOB 7005	A910
DP AC/JV	
PM GJF	

1 DOOR MANEUVERING CLEARANCE DETAIL HAS BEEN ADDED

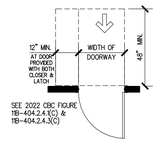
2 DETAILS REFLECTING SCOPE NOT PART OF THIS PERMIT HAVE BEEN REMOVED

A FRONT APPROACH, PULL SIDE



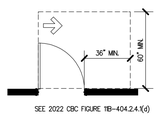
SEE 2022 CBC FIGURE 11B-404.2.4.1(a) & 11B-404.2.4.3(a)

B FRONT APPROACH, PUSH SIDE



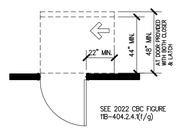
SEE 2022 CBC FIGURE 11B-404.2.4.1(C) & 11B-404.2.4.3(C)

C HINGE APPROACH, PULL SIDE



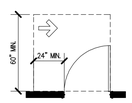
SEE 2022 CBC FIGURE 11B-404.2.4.1(d)

D HINGE APPROACH, PUSH SIDE



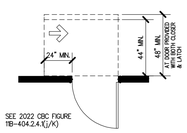
SEE 2022 CBC FIGURE 11B-404.2.4.1(f/g)

E LATCH APPROACH, PULL SIDE



SEE 2022 CBC FIGURE 11B-404.2.4.1(h)

F LATCH APPROACH, PUSH SIDE



SEE 2022 CBC FIGURE 11B-404.2.4.1(j/k)

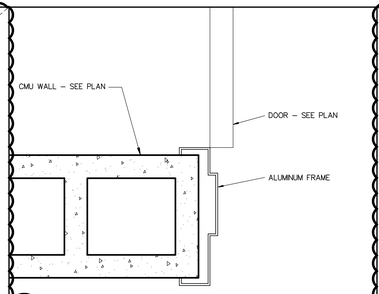
NOTE:

CODE OF REFERENCE 2022 CBC CHAPTER 11B
FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCES SHALL COMPLY WITH SECTION 11B-302. CHANGES IN LEVEL, SLOPES EXCEEDING 1:48, AND DETECTIBLE WARNINGS SHALL NOT BE PERMITTED

27 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES 1/4"

NOT USED
DETAIL REMOVED

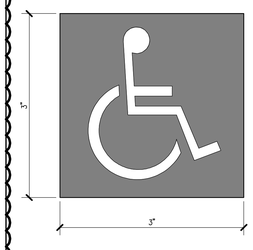
22



11 EXTERIOR DOOR JAMB 3"

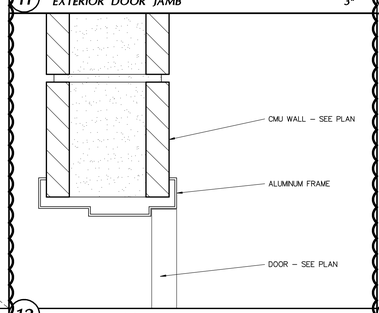
NOT USED
DETAIL REMOVED

6



- SIGNAGE TO BE POSTED ON EXTERIOR SIDE OF BUILDING AT MAIN ENTRANCE AS PER BUILDING CODE SECTION 11B-216.6
- SIGN TO HAVE WHITE FIGURE ON BLUE BACKGROUND (BLUE # 15080, FED. STD. 595c) OR REVERSED CONTRAST

1 INTERNATIONAL SYMBOL OF ACCESSIBILITY 3"



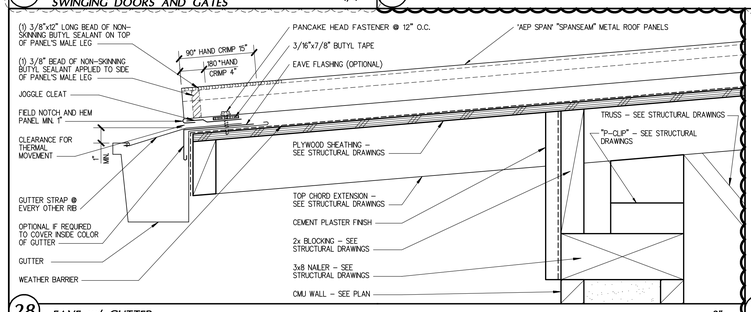
12 EXTERIOR DOOR HEAD 3"

NOT USED
DETAIL REMOVED

7

NOT USED
DETAIL REMOVED

2



28 EAVE w/ GUTTER 3"

NOT USED
DETAIL REMOVED

18

NOT USED
DETAIL REMOVED

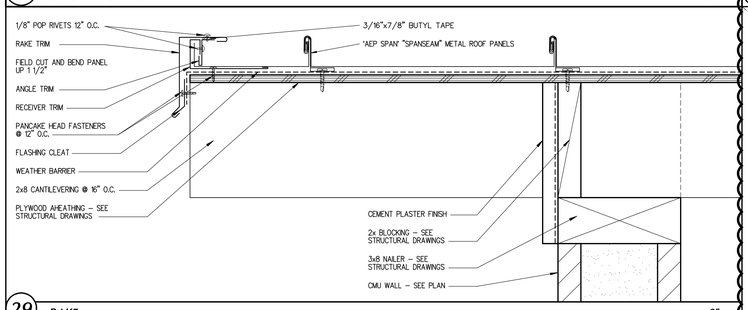
13

NOT USED
DETAIL REMOVED

8

NOT USED
DETAIL REMOVED

3



29 RAKE 3"

NOT USED
DETAIL REMOVED

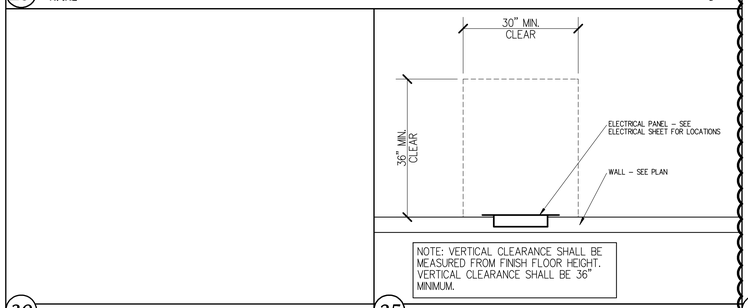
20

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DETAIL REMOVED

9

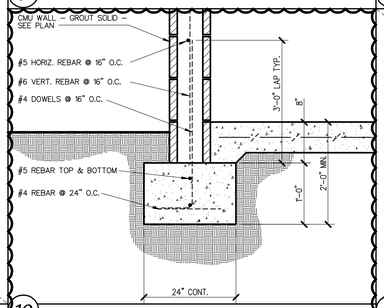
NOT USED
DETAIL REMOVED

4



30

25 ELECTRICAL PANEL CLEARANCE 3/4"



20

10 CMU FOOTING 1"

NOT USED
DETAIL REMOVED

5

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A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST BAKERSFIELD, CALIFORNIA

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JOB 7005	
DP AC/JV	AD1
PM GJF	

EPOXY SET DOWELS IN CONCRETE

1. MATERIALS:
   - A. DOWELS: AS SPECIFIED UNDER REINFORCING STEEL.
   - B. EPOXY SYSTEM: HILTI HIT–RE500–SD ICC ESR–2322
     SIMPSON "SET–XP" ESR–2508 OR APPROVAL EQUAL.
   - C. CONFORM TO MANUFACTURER'S WRITTEN INSTRUCTIONS. ADEQUATE MIXING IS CRITICAL TO PERFORMANCE OF EPOXY SYSTEMS.

2. DRILLING HOLES: TO DEPTH AND DIAMETER INDICATED ON DRAWINGS, OR WHERE NOT SHOWN, TO HOLE SIZES INDICATED ON SCHEDULE BELOW, WHICH ARE BASED ON DEVELOPING THE FULL TENSILE STRENGTH OF THE BAR FOR CORRECTLY INSTALLED DOWELS. DRILL USING ROCK BITS TO PRODUCE CLEAN, ROUGH HOLES WITH NO DRILLING DUST EMBEDDED IN HOLE SIDES.

SCHEDULE OF HOLE SIZES			
REBAR	HOLE DEPTH & DIAMETER	REBAR	HOLE DEPTH & DIAMETER (UNO)
#3 #4 #5	4 1/2"x1/2" 6"x 5/8" 7 1/2"x3/4"	#6 #7 #8	9"x7/8" 10 1/2"x 1" 12 x 1 1/8"

SCHEDULE OF HOLE SIZES			
ALL THREADED ROD	HOLE DEPTH & DIAMETER	ALL THREADED ROD	HOLE DEPTH & DIAMETER (UNO)
3/8 1/2 5/8	4 1/2"x 7/16" 6"x 9/16" 7 1/2"x 3/4"	3/4 7/8 1	9"x7/8" 10 1/2"x1" 12x 1 1/8"

3. INSTALL EPOXY IN HOLES , WHETHER THEY BE OVERHEAD, HORIZONTAL, OR DOWN HAND PER MANUFACTURER'S RECOMMENDATIONS, SO AS TO DEVELOP BAR CAPACITY.

4. TESTING: PROOF TESTING REQUIRED FOR 33% OF DOWELS SET, ONE TEST FOR EVERY 3 DOWELS SET FOR THE WORK. TEST CRITERIA IS TO BE 80 PERCENT OF THE YIELD STRENGTH OF THE BAR TESTED, WITHOUT INDICATION OF ANY LOOSENING OR OUTWARD MOVEMENT OF THE DOWEL AND NO CRACKING OR SPALLING OF THE CONCRETE IN WHICH THE DOWEL IS SET. DOWELS FAILING THE PROOF TEST SHALL REQUIRE ANOTHER DOWEL TO BE SET AND TESTED.

STATEMENT OF SPECIAL INSPECTION AND STRUCTURAL TEST

1. THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTOR'S DUTIES ARE AS DESCRIBED IN SEC. 1704.2 AND 1704.3 OF CBC COPIES OF TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THIS ENGINEER IN ADDITION TO OTHER NORMAL DISTRIBUTIONS WITHIN ONE WEEK OF TEST OR INSPECTION.
2. ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY EMPLOYED BY THE OWNER OR ARCHITECT AND NOT THE CONTRACTOR PER CBC SECTION 1704. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE A SPECIAL INSPECTION. THE FIRM PROVIDING SPECIAL INSPECTION SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. (NOTE: FOUNDATION INSPECTIONS LISTED BELOW ARE PROVIDED BY AN INSPECTOR DESIGNATED BY OTHERS)
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND INSPECTION FIRM WITH A SCHEDULE TO FACILITATE THE PROPER COORDINATION OF WORK.
4. SPECIAL INSPECTION FOR SEISMIC RESISTANCE FOR DESIGN CATEGORY C,D,E & F SHALL BE DONE IN ACCORDANCE TO SECTION 1705.12
5. SPECIAL INSPECTORS SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO SPECIAL WORK
6. PORTIONS OF WORK REQUIRING SPECIAL INSPECTION:

	YES	NO	N/A
I. FOUNDATION:			
A. COMPACTED FILL, GRADING AND EXCAVATIONS	■	☐	☐
B. VERIFY BEARING METERIAL AND PROPER DEPTH	■	☐	☐
C. SEE CBC TABLE 1705.6 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION			
II. CONCRETE:			
A. CONTINUOUS INSPECTION AND TEST CYLINDERS FOR STRUCTURAL CONCRETE EXCEPT FOUNDATION CONCRETE OF 2500 PSI OR LESS	■	☐	☐
B. CONTINUOUS INSPECTION FOR SLAB–ON–GRADE CONCRETE	■	☐	☐
C. TEST CYLINDERS FOR SLAB–ON–GRADE CONCRETE	■	☐	☐
D. SEE CBC TABLE 1705.3 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION			
III. REINFORCING STEEL:			
A. PLACING OF REINFORCING	■	☐	☐
B. SAMPLING AND TESTING OF STEEL (MILL REPORTS AND IDENTIFICATION OF STEEL)	■	☐	☐
C. SEE CBC TABLE 1705.3 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECIION OF CONCREIE CONSIRUCIION			
IV. MASONRY:			
A. CONTINUOUS INSPECTION	■	☐	☐
B. MASONRY PRISM TESTING PER ASTM C 1314 AND 2105.3	■	☐	☐
C. SEE TABLE 1.19.2–2 OF TMS 602–11/ACI 530.1–11/ASCE 6–11 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION			
V. STRUCTURAL STEEL:			
A. MILL REPORTS AND IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE)	■	☐	☐
B. SAMPLING AND TESTING OF SPECIMENS	■	☐	☐
C. SEE TABLES N5.4–1 THRU N5.4–3 AND TABLES N5.6–1 THRU N5.6–3 OF AISC 360–16 FOR ALL STRUCTURAL STEEL.			
D. SEE TABLES J6–1 THRU J6–3, TABLES J7–1 THRU J7–3 AND TABLE J8–1 OF AISC 341–16 FOR ALL SEISMIC RESISTING STRUCTURAL STEEL ELEMENTS IN SEISMIC DESIGN CATEGORIES C,D,E & F.			
E. SPECIAL INSPECTION FOR STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH TABLE 1705.2.2. OF CBC.			
VI. WELDING:			
A. ALL STRUCTURAL WELDING (INCLUDES DECKING AND WELDED STUDS), EXCEPT WELDING IN APPROVED SHOPS PER CBC 1704.2.5.2	■	☐	☐
B. ULTRASONIC TESTING OF FULL PENETRATION WELD CONNECTIONS AT MOMENT FRAMES, BRACED FRAMES, BEAM SPLICES, AND FIELD WELDS	■	☐	☐
C. STRUCTURAL LIGHT GAGE METAL FRAME WELDING	☐	☐	■
D. REINFORCING STEEL WELDING PER AISC 360–10 AND AISC 341–10	■	☐	☐
E. SEE TABLES N5.4–1 THRU N5.4–3 OF AISC 360–10 FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION			
F. SEE TABLES J6–1 THRU J6–3 OF AISC 341–10 FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF WELDING FOR SEISMIC DESIGN CATEGORY C,D,E & F.			
VII. BOLTING:			
A. HIGH STRENGTH BOLT A325SC & A490SC (TORQUE VERIFICATION)	■	☐	☐
B. HIGH STRENGTH BOLT A325N & A490N (SNUG CONTACT OF PLYS)	■	☐	☐
C. EXPANSION/ADHESIVE ANCHORS IN CONCRETE OR MASONRY	■	☐	☐
D. ANCHOR BOLTS AT CONCRETE WALLS AND BRACED FRAMES, (BOLT INSTALLATION AND CONCRETE PLACEMENT)	■	☐	☐
E. SEE TABLES N5.6–1 THRU N5.6–3 OF AISC 360–10 FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION.			
F. SEE TABLES J7–1 THRU J7–3 OF AISC 341–10 FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF BOLTING FOR SEISMIC DESIGN CATEGORY C,D,E & F.			
VIII. APA RATED SHEATHING DIAPHRAGM WITH NAILING ZONE "B" TO "H" AND PLYWOOD SHEAR WALLS. INSPECTION OF SHEATHING, NAIL DIAMETER & LENGTH, NAILING LINES, NAIL SPACING, AND FRAMING WIDTH AT NAIL DIAMETER & LENGTH, NAILING LINES, NAIL SPACING, AND FRAMING WIDTH AT ADJOINING EDGES, PANEL, EDGES, VERIFY APA STAMP, DRAG STRUTS, SILL ANCHORAGE AND HOLDDOWN ANCHORS	■	☐	☐

7. EACH CONTRACTOR OR SUB–CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/ COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
8. PER CBC SECTION 1705.5.2

SPECIAL INSPECTION

1. THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT. THE STATEMENT OF SPECIAL INSPECTION PROVIDES THE MINIMUM REQUIREMENTS FOR SPECIAL INSPECTIONS.
2. ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY EMPLOYED BY THE OWNER AND NOT THE CONTRACTOR PER CBC SECTION 1704.2.
3. THE SPECIAL INSPECTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. THESE QUALIFICATIONS ARE IN ADDITION TO QUALIFICATIONS SPECIFIED IN OTHER SECTIONS OF THE 2022 CALIFORNIA BUILDING CODE.
4. AN APPROVED AGENCY SHALL BE OBJECTIVE, COMPETENT, AND INDEPENDENT FROM THE CONTRACTOR RESPONSIBLE FOR THE WORK BEING INSPECTED. THE AGENCY SHALL DISCLOSE POSSIBLE CONFLICTS OF INTEREST SO THAT OBJECTIVITY CAN BE CONFIRMED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SCHEDULE TO THE TESTING AND INSPECTION AGENCY TO FACILITATE THE PROPER COORDINATION OF THE WORK.
6. THE CONSTRUCTION OR WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTIONS.
7. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, OWNER, AND THE REGISTERED DESIGN PROFESSIONAL IN CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE PERMIT APPLICANT AND/OR OWNER, AND BUILDING OFFICIAL.
8. SPECIAL INSPECTION – INSPECTION OF CONSTRUCTION REQUIRING THE EXPERTISE OF AN APPROVED SPECIAL INSPECTOR IN ORDER TO ENSURE COMPLIANCE WITH THE 2022 CALIFORNIA BUILDING CODE AND THE APPROVED CONSTRUCTION DOCUMENTS.
9. SPECIAL INSPECTOR – A QUALIFIED PERSON EMPLOYED OR RETAINED BY AN APPROVED AGENCY AND APPROVED BY THE BUILDING OFFICIAL AS HAVING THE COMPETENCE NECESSARY TO INSPECT A PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION.
10. CONTINUOUS SPECIAL INSPECTION – SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED AND VISUALLY OBSERVES EACH ELEMENT REQUIRING SPECIAL INSPECTION.
11. PERIODIC SPECIAL INSPECTION – SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED. THE SPECIAL INSPECTOR SHALL AT A MINIMUM INSPECT 10% OF THE WORK PERFORMED EACH DAY ON A RANDOM BASIS. INSPECTION OF THE WORK PERFORMED EACH DAY MAY BE COMPLETED AFTER THE DAY THE WORK HAS BEEN PERFORMED PROVIDED INSPECTION IS NOT REQUIRED WHILE THE WORK IS BEING PERFORMED IN ACCORDANCE WITH THE REQUIRED SPECIAL INSPECTIONS BELOW.
12. CONTINUOUS SPECIAL INSPECTION BY A REGISTERED LABORATORY INSPECTOR, ACCEPTABLE TO THE ARCHITECT AND THE CITY OF BAKERSFIELD, SHALL BE PROVIDED FOR THE FOLLOWING (SEE SPECIFICATIONS ALSO):

    CONCRETE – SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE REQUIRED BY TABLE 1705.3 OF CBC.

    EXPANSION / EPOXY TYPE ANCHORS

    FOUNDATIONS – ALL INSPECTIONS CALLED FOR IN GEOTECHNICAL ENGINEER'S REPORT FOR SPECIFIC INSPECTION REQUIREMENTS BY THE SOILS ENGINEER'S REPRESENTATIVE INCLUDING SITE PREPARATION, EXCAVATION AND BACKFILLING.

    REINFORCING STEEL PLACEMENT FOR ALL CONCRETE.

    MASONRY – LAYING AND GROUTING OF CMU & REINFORCEMENT PLACEMENT.

    EMBEDDED PLATE WASHERS AT HOLD DOWN ANCHORS.

13. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FASTENING TO COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM. SPECIAL INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED WHERE THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER. PER CBC SECTION 1705.12.
14. IF THE SHOP IS TO BE CONSIDERED AN APPROVAL STEEL FABRICATOR PER CBC SECTION 1704.2.5, PROVIDE APPROVAL FROM A CERTIFIED INDEPENDENT TESTING AGENCY. THE QUALITY ASSURANCE INSPECTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH AISC360.
15. ALL SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF CBC SECTIONS 1704.3 AND 1705 AND ANY ADDITIONAL REQUIREMENTS STATED IN THESE DRAWINGS AND/OR THE PROJECT SPECIFICATIONS
16. PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT AND THEIR SUPPORTS WHERE FIRE SPRINKLER SYSTEMS ARE INSTALLED PER SECTION 1705.13.6 ITEM #6.

DESIGN CRITERIA

1. DESIGN LOADS
   - A. ROOF LIVE LOADS – 20 psf (REDUCIBLE)
   - B. DEAD LOADS:
     ROOF (FLAT). . . . . 16 psf
2. DESIGN IMPORTANCE FACTOR WIND = 1.0 OCCUPANCY CATEGORY II
   DESIGN IMPORTANCE FACTOR SEISMIC = 1.0 OCCUPANCY CATEGORY II
   OCCUPANCY CATEGORY II
3. WIND PRESSURE BASED ON 95 MPH EXPOSURE C
4. DESIGN LATERAL FORCES (SEISMIC):
   FOR STRENGTH DESIGN SEISMIC $V = \frac{Sds\ I\ W}{R}$ (0.7V FOR WORKING STRESS DESIGN)

   FOR WORKING STRESS DESIGN: Fa=1.20; Fv=1.968
   R=3.5 INTERMEDIATE MASONRY SHEAR WALL; I=1.0; ρ=1.3
   0.7V =0.189W

   SEISMIC DESIGN CATEGORY D; SITE CLASS D
   Ss=0.909; S1=0.332; Sds=0.727; Sd1=0.436
   TOTAL DESIGN BASE SHEAR----------25485#
   SEISMIC DESIGN COEFFICIENT----------Cs=0.189V
   DESIGN PROCEDURE USED----------EQUIVALENT LATERAL FORCE PROCEDURE
5. WIND PRESSURE BASED ON 95 MPH, EXPOSURE C. RISK CATEGORY II
   APPLICABLE INTERNAL PRESSURE COEFFICIENT 0.18
   DESIGN WIND PRESURE TO BE USED FOR EXTERIOR COMPONENT AND CLADDING METERIAL 30 psf.

WOOD FRAMING

1. ALL LUMBER TO BE GRADE MARKED DOUGLAS FIR (SEE SPECS).
   JOISTS, RAFTERS AND STUDS..... USE DOUGLAS #1 AND BETTER.
   BLOCKING AND PLATES..... USE DOUGLAS #2
   BEAMS, STRINGERS AND POSTS..... USE DOUGLAS #1
   SILL PLATES..... USE DOUGLAS #1
   EXPOSED MEMBERS SHALL BE SELECTED FOR APPEARANCE. MAXIMUM MOISTURE CONTENT AT INSTALLATION IS 19%.
2. WOOD SILL PLATES SHALL BE FASTENED WITH 5/8"ø x12" BOLTS AT 4'–0" O/C MAX. PLACE A BOLT WITHIN 9" OF END OF EACH PIECE, TWO BOLTS MINIMUM EACH PIECE. GALV. OR STAINLESS STEEL BOLTS & NAILS. SEE SCHEDULE FOR A.B. SIZE AND SPACING AT SHEAR WALLS.
3. PROVIDE WASHERS UNDER HEADS AND NUTS OF BOLTS AND LAG SCREWS BEARING ON WOOD. NUTS ON ALL BOLTS SHALL BE RETIGHTENED BEFORE CLOSING IN AND/OR ON COMPLETION OF THE JOB. CUT WASHERS MAY BE USED EXCEPT FOR SILL BOLTS AT SHEAR WALLS, HOLDOWN BOLTS, AND WHERE NOTED OTHERWISE.
4. BOLT HOLES TO BE NOMINAL DIAMETER OF BOLT + 1/16" UNLESS NOTED OTHERWISE.
5. ROOF SHEATHING AND SHEAR WALL SHEATHING, APA GRADE MARKED EXTERIOR RATED, CDX STRUC–1. SEE PLANS FOR SIZE.
   SHEATHING SHALL BE IN SINGLE PIECES WHERE POSSIBLE WITH 1'–4" MIN. WIDTH AT FLOOR, 2'–0" MIN. WIDTH AT ROOF SOLID BLOCK ALL EDGES TYPICAL.
6. ALL NAILS SHALL BE COMMON WIRE NAILS.
7. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
8. ALL BOLTS SHALL BE RE–TIGHTENED BEFORE CLOSING–IN FINISHES
9. PROVIDE LEAD HOLE 40%–70% OF THREADED SHANK DIAMETER AND FULL DIAMETER FOR SMOOTH SHANK PORTION.

MACHINE NAILING

USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL OF THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE ENFORCEMENT AGENCY. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING IS NOT ALLOWED FOR 5/16 INCH PLYWOOD. IF THE NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HELD HAMMER, OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND MACHINE NAILING SHALL BE DISCONTINUED.

GLUE–LAMINATED LUMBER

1. THE MANUFACTURER OF STRUCTURAL GLUE–LAMINATED TIMBER SHALL COMPLY WITH THEREQUIREMENTS OF CODE SECTION 2312.6. ALL FABRICATION AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE "STANDARD SPECIFICATIONS FOR STRUCTURAL GLU–LAMINATED DOUGLAS FIR (COAST REGION) LUMBER" BY THE (COAST REGIONO LUMBER)" BY THE WEST COAST LUMBERMAN'S ASSOCIATION, AND THE CURRENT EDITION OF "TIMBER CONTRUCTION STANDARDS" BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
2. ALL GLUE–LAMINATED MEMBERS SHALL BE DOUGLAS FIR OR WESTERN LARCH COMBINATION 24F–V8 WITH ADHESIVES FOR USE UNDER EXTERIOR EXPOSURE CONFORMING TO ASTM D2559. ALLOWABLE STRESS REQUIREMNTS ARE AS FOLLOWS:

   Fbxx = 2400 psi TENSION IN TENSION ZONE
   = 2400 psi TENSION IN COMPRESSION ZONE
   Fc±xx = 650 psi TENSION FACE
   = 650 psi COMPRESSION FACE
   Fvxx = 265 psi

   Exx = 1.8 x 10 psi
3. FINISH OF THE MEMBERS SHALL BE ARCHITECTURAL APPEARANCE FOR EXPOSED MEMBERS AND INDUSTRIAL APPEARANCE FOR CONCEALED MEMBERS IN CONFORMANCE WITH THE STANDARD APPEARANCE GRADES OF THE A.I.T.C.
4. THE MANUFACTURER SHALL SUBMIT COMPLETE SHOP DRAWINGS TO THE ARCHITECH/ ENGINEER FOR APPROVAL PRIOR TO ANY FABRICATION.
5. PROVIDE CAMBERS AS NOTED ON THE DRAWINGS.
6. TEMPERATURE OF GLUE–LAMINATED TIMBER IS NOT TO EXCEED 150° F IN SERVICE.
7. GLUE–LAMINATED MEMBERS SHOWN ON THESE PLANS ARE FOR DRY CONDITIONS OF USE.
8. FABRICATOR OF GLUE LAMINATED BEAMS TO BE LICENSED BY CITY OF LOS ANGELES.
9. AN AITC CERTIFICATE OF INSPECTION FOR ALL GLUED LAMINATED TIMBER SHALL BE SUBMITTED TO A BUILDING AND SAFETY DIVISION INSPECTOR PRIOR TO ERECTION.

MASONRY

1. BLOCK SHALL BE MEDIUM–WEIGHT UNITS CONFORMING TO ASTM C–90, GRADE S–1 , F'm = 1800 PSI.
   USE BOND BEAM UNITS AT HORIZONTAL REINFORCING.
2. SAND SHALL CONFORM TO ASTM C–144.
3. MORTAR SHALL BE TYPE S, ONE PART CEMENT, 1/4 TO 1/2 PART HYDRATED LIME OR LIME PUTTY, 2 1/4 TO 3 PARTS SAND. USE SIKA CHEMICAL RED LABEL ADMIXTURE. MINIMUM STRENGTH 2000 PSI AT 28 DAYS.
4. GROUT SHALL HAVE A MINIMUM STRENGTH OF 2000 PSI AT 28 DAYS WITH ONE PART CEMENT, 2 TO 3 PARTS SAND, 1 TO 1 1/4 PARTS PEA GRAVEL.
   USE SIKA CHEMICAL GROUT AID TYPE I OR II.
   GROUT SHALL BE MECHANICALLY VIBRATED DURING PLACEMENT.
5. REINFORCING STEEL AS SPECIFIED FOR CONCRETE. LAP BARS 40 DIAMETERS MINIMUM AT SPLICES, UNLESS NOTES OTHERWISE. PROVIDE DOWELS FOR WALL REINFORCING, OF SAME SIZE AND SPACING BEFORE MASONRY IS STARTED, VERTICAL STEEL TO BE IN PLACE,
6. CONCRETE BLOCK WALLS SHALL BE PLACED AND GROUTED SOLID IN 4'–0" MAXIMUM LIFTS.
7. PROVIDE A MINIMUM OF ONE BAR DIAMETER (1/2 INCH MINIMUM) GROUT BETWEEN INSIDE FACE OF MASONRY AND MAIN REINFORCING BARS.
8. MASONRY WALL CONTROL JOINT SHALL BE 30' MAX. SPACING U.N.O.
9. SET AND BRACE VERTICAL REINFORCING BEFORE LAYING MASONRY UNITS.
10. PROVIDE 1/2" MINIMUM CLEAR TO ALL REINFORCING STEEL. DO NOT OFFSET BARS AT SPLICE. WALL STEEL BAR SPLICES MAY BE TIED TOGETHER.
11. LAP ALL REINFORCING BARS 48 DIAMETER MINIMUM AT WALL SPLICES, UNLESS NOTED OTHERWISE. REFER TO DRAWINGS FOR INTERSECTION SPLICES AND BENTS.

GENERAL NOTES:

GENERAL:

1. THE FOLLOWING NOTES, TYPICAL DETAILS AND SCHEDULES SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. ALL CONSTRUCTION SHALL COMPLY WITH REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND TO CROSS–CHECK DETAILS AND DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND ALL OTHER TRADE DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
3. DETAILS NOTED AS TYPICAL ON STRUCTURAL SHEETS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT AS APPROVED BY THE STRUCTURAL ENGINEER.
4. SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   - DIMENSIONS NOT SHOWN.
   - SIZE AND LOCATION OF OPENINGS, CONCRETE CURBS.
   - FLOOR SLOPES, DEPRESSIONS, ETC.
   - EXTERIOR WALL CONSTRUCTION.
   - PIPING, SLEEVES, HANGERS, ETC.
   - ANCHORAGE AND BRACING OF MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT TO STRUCTURE.
   - LOCATION, SIZE AND WEIGHT OF MACHINES AND EQUIPMENT AND THEIR BASE.
5. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
6. STRUCTURAL DRAWINGS INDICATE ONLY THE APPROXIMATE LOCATION OF MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT, AS WELL AS RELATED AUXILIARY FRAMING NECESSARY TO SUPPORT SUCH GEAR.
7. STRUCTURAL DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

FOUNDATION:

1. FOUNDATION DESIGN IS BASED ON AN UPDATE OF GEOTECHNICAL REPORT BY KRAZAN & ASSOCIATES, INC. DATED JULY 28, 2023.
2. CONTRACTOR SHALL OBTAIN THE REPORTS MENTIONED ABOVE AND SHALL STRICTLY FOLLOW THE RECOMMENDATIONS OUTLINED IN THE REPORTS DURING FOUNDATION EXCAVATION.
3. FOUNDATION ALLOWABLE DESIGN LOADS: 2500 PSF. FOR CONTINUOUS OR SPREAD FOOTINGS EMBEDDED MINIMUM 18 INCHES INTO COMPETENT NATIVE SOILS.
4. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR TEMPORARY SHORING OF EXCAVATION, RETAINING/BASEMENT WALLS DURING BACKFILL OPERATION.
5. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL SHORING AS REQUIRED.
6. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
7. A CERTIFICATION OF 90% COMPACTION OF SOILS BELOW FOUNDATIONS IS REQUIRED FROM THE GEOTECHNICAL ENGINEER OF RECORD.
8. PROVIDE 15 MIL MOISTURE BARRIER UNDERLAIN BY 3" COMPACTED CLEAN 3/4" GRAVEL.
9. ALL FOUNDATION EXCAVATIONS MUST BE OBSERVED AND APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL.

CONCRETE:

1. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

LOCATION	STRENGTH (PSI)	MIX	TYPE	W/C RATIO
SLAB ON GRADE	3,000	3/4"	HARD ROCK CONCRETE	0.55
GRADE BEAMS	4,000	1"	HARD ROCK CONCRETE	0.50
FOOTINGS	4,000	1"	HARD ROCK CONCRETE	0.50

2. PORTLAND CEMENT SHALL CONFORM TO ASTM C–150, TYPE II, LOW ALKALI.
3. ALL NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C–33. LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C–330. UNIT WEIGHT = 110 PCF.
4. LOCATION OF ALL CONSTRUCTION JOINTS SHALL BE APPROVED BY ARCHITECT OR STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE KEYED OR ROUGHENED. EXCEPTION – SEE SPECS FOR INTERIOR AND EXTERIOR SLAB JOINTS.
5. NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES THROUGH WALLS AND FLOORS.
6. ALL REINFORCING STEEL DOWELS, ANCHOR BOLTS, AND OTHER INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
7. PROVIDE AND SUBMIT TO THE ENGINEER A MIX DESIGN MEETING THE DESIGN REQUIREMENTS

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A–615 GRADE 60, EXCEPT #3 AND SMALLER BARS MAY BE GRADE 40.
2. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A–706.
3. DOWELS SHALL BE PROVIDED AT ALL POUR JOINTS AND SHALL BE THE SAME SIZE AND SPACING AS REINFORCING DIRECTLY BEYOND POUR JOINTS, EXCEPT AS OTHERWISE NOTED.
4. ALL REINFORCING STEEL SHALL BE LAPPED AS INDICATED ON THE DRAWINGS. WHERE LAP AND/OR SPLICE LOCATIONS ARE NOT SPECIFICALLY INDICATED, PROVIDE CLASS "B" SPLICE PER SCHEDULE ON SHEET S1.2. ALL SPLICE LOCATIONS SHALL BE CLEARLY SHOWN ON SHOP DRAWINGS AND APPROVED BEFORE FABRICATION.
5. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVERAGE, EXCEPT AS OTHERWISE DETAILED:
   - WHERE POURED AGAINST EARTH (EXCEPT SLAB ON GRADE)..... 3"
   - EXPOSED TO EARTH BUT FORMED..... 2"
   - WALLS, EXTERIOR FACE (ABOVE GRADE – ..... 1–1/2"
   - WALL EXTERIOR FACE (ABOVE GRADE – ..... 2"
   - WALLS, INTERIOR FACE..... 1"
6. PLACING TOLERANCES AND BAR SUPPORTS SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION BY CRSI.
7. CLEARANCE BETWEEN PAR

Table 4: Minimum Special Inspection Requirements

Inspection Task	MINIMUM SPECIAL INSPECTION Frequency [a] Level 1	Level 2	Level 3	Reference for Criteria TMS 402	TMS 602
1. As masonry construction begins, verify that the following are in compliance:					
a. Proportions of site-prepared mortar	NR	P	P		Art. 2.1 & 2.6 A & C
b. Grade and size of prestressing tendons and anchorages	NR	P	P		Art. 2.4 B & 2.4 M & N
c. Grade, type and size of reinforcement, connectors, and anchor bolts	NR	P	P		Art. 2.4 A, D, E, F, G, H, I, J, K, & L
d. Prestressing technique	NR	P	P		Art. 3.6 B
e. Properties of thin-bed mortar for AAC masonry	NR	C[b]/P[c]	C		Art. 2.1 DC.1
f. Sample panel construction	NR	P	C		Art. 1.6 D
2. Prior to grouting, verify that the following are in compliance:					
a. Grout space	NR	P	C		Art. 3.2 D & 3.2 F
b. Placement of prestressing tendons and anchorages	NR	P	P	Sec. 10.8 & 10.9	Art. 3.6
c. Placement of reinforcement, connectors, and anchor bolts	NR	P	C	Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7	Art. 3.2 E & 3.4
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	NR	P	P		Art. 2.6 B & 2.4 M.1.b
3. Verify compliance of the following during construction:					
a. Materials and procedures with the approved submittals	NR	P	P		Art. 1.5
b. Placement of masonry units and mortar joint construction	NR	P	P		Art. 3.3 B
c. Size and location of structural members	NR	P	P		Art. 3.3 G
d. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	NR	P	C	Sec. 1.2.1(e), 6.2.1, & 6.3.1	
e. Type, size, and location of veneer ties & movement joints	P[d]	P[d]	--	Sec. 13.2	Art. 3.4 D
f. Installation of adhered veneer	P[d]	P[d]	--	Sec. 13.3	Art. 3.3 D
g. Welding of reinforcement	NR	C	C	Sec.6.1.7.3	
h. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32.2°C))	NR	P	P		Art. 1.8 C & D
i. Application and measurement of prestressing force	NR	C	C		Art. 3.6 B
h. Placement of grout	NR	C	C		Art. 3.5
j. Placement of prestressing grout for bonded tendons	NR	C	C		3.6 C
k Placement of AAC masonry units and construction of thin-bed mortar joints	NR	C[b]/P[c]	C		Art. 3.3 B.8 & 3.3 G.1.b
4. Observe preparation of grout specimens, mortar specimens, and/or prisms	NR	P	C		Art. 1.4 B.2.a.3, B.2.b.3, B.2.c.3, B.3, & B.4

(a) Frequency refers to the frequency of inspection, which may be continuous during the listed task or periodically during the listed task, as defined in the table. NR=Not Required, P=Periodic, C=Continuous

(b) Required for the first 5000 square feet (465 square meters) of AAC masonry.

(c) Required after the first 5000 square feet (465 square meters) of AAC masonry.

(d) Periodic inspection of veneers is required when the height of the veneer exceeds 60 ft (18.3 m) above grade plane.

Table 3: Minimum Verification Requirements

Minimum Verification	Required for Quality Assurance[a] Level 1	Level 2	Level 3	Reference for Criteria TMS 602
Prior to construction, verification of compliance of submittals.	R	R	R	Art. 1.5
Prior to construction, verification of f'_m and f'_{AAC}, except where specifically exempted by the Code.	NR	R	R	Art. 1.4 B
During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.	NR	R	R	Art. 1.5 & 1.6.3
During construction, verification of f'_m, f'_{mi}, and f'_{AAC} for every 5,000 sq. ft. (465 sq. m).	NR	NR	R	Art. 1.4 B
During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout.	NR	NR	R	Art. 1.4 B

(a) R=Required, NR=Not Required

Table 3.1: Minimum Quality Assurance Level

Designed in accordance with	Risk Category I, II or III	Risk Category IV
Part 3 or Appendix C or Appendix D	Level 2	Level 3
Part 4	Level 1	Level 2

TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE
1. INSPECITON OF REINFORCING SIEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	—	X	ACI 318: 3.5, 7.1–7.7	1910.4
2. INSPECITON OF REINFORCING SIEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b.	—	—	AWS D1.4 ACI 318: 3.5.2	—
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	—	X	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4. INSPECTION OF ANCHORS POST–INSTALLED IN HARDENED CONCRETE MEMBERS[a]	—	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1
5. VERIFYING USE OF REQUIRED DESIGN MIX.	—	X	ACI 318: CH. 4, 5.2–5.4	1904.2, 1910.2, 1910.3
6. AT THE TIME OF FRESH CONCREIE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7. INSPECITON OF CONCREIE AND SHOICREIE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	—	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. INSPECTION OF MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318: 5.11–5.13	1910.9
9. INSPECITON OF PRESIRESSED CONCREIE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC–FORCE–RESISTING SYSTEM.	X X	—	ACI 318:18.20 ACI 318:18.18.4	—
10. ERECTION OF PRECAST CONCRETE MEMBERS.	—	X	ACI 318: CH. 16	—
11. VERIFICATION OF IN–SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST–TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	—	X	ACI 318: 6.2	—
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	ACI 318: 6.1.1	—

FOR SI: 1 INCH=25.4 mm.

a: WHERE APPLICABLE, SEE ALSO SECTION 1705.11, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

b: SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK.

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No. SE 2970
Exp. 3-31-26
STRUCTURAL
STATE OF CALIFORNIA

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Dennis McNamara

KERN COUNTY
APPROVED
BUILDING INSPECTION
MAY REQUIRE FIELD APPROVAL
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10/2/2025, 1:27:30 PM
K202409814
Clemente Miallos

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	
DP	
PM	

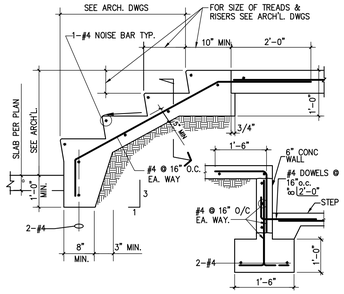
S1.1A

MINIMUM NAILING SCHEDULE — 12

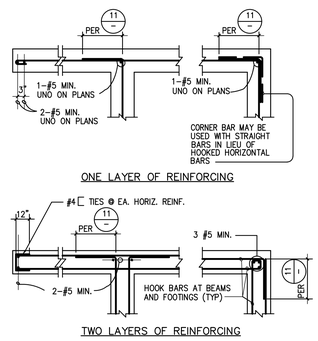
JOIST OR RAFTER TO SIDES OF STUDS (8) INCH JOIST OR LESS	3–16d
FOR EA. ADDITIONAL FOUR (4) INCHES IN DEPTH OF JOIST	1–16d
JOIST OR RAFTERS AT ALL BEARINGS TOE NAILS, EA. SIDE	2–10d
STUDS TO BEARINGS, TOE NAILS EA. SIDE	2–10d
BLOCKING BETWEEN JOISTS OR RAFTERS.	
TO JOIST OR RAFTERS TOE NAILS, EA. SIDE EA. END.	2–10d
TO JOIST OR RAFTERS BEARINGS,–TOE NAILS, EA. SIDE	2–10d
BLOCKING BETWEEN STUDS, EA. END 2–10d TOE OR END NAIL	2–16d
CROSS BRIDGING BTW'N JOISTS OR RAFTERS	
TOE NAIL EA. SIDE, EA. END	2–8d
RIBBONS TO STUDS	
1 X RIBBONS	2–8d
2 X RIBBONS	2–16d
DOUBLE TOP PLATES (LAP 6'–0" MIN.)	
LOWER PLATE TO TOP OF STUD	2–16d
UPPER PLATE TO LOWER PLATE – STAGGERED	16d @ 12" O.C.
UPPER PLATE TO LOWER PLATE AT INTERSECTION	3–16d
MULTIPLE STUDS STAGGER FOR WIDTH MORE THAN 4"	16d @ 12" O.C.
BUILT–UP BM'S	
12" OR LESS IN DEPTH (STAGGER NAILS)	16d @ 12"
MORE THAN 12" IN DEPTH (STAGGER BOLTS)	1/2" ø @ 24"

ALL NAILS SHALL BE COMMON WIRE NAILS.
USE GALVANIZED NAILS WHERE EXPOSED TO WEATHER.
PREDRILLED HOLES FOR NAILS, WHERE NECESSARY TO PREVENT SPLITTING, SHALL BE BORED WITH A DIAMETER SMALLER THAN THAT OF THE NAILS. WHERE POSSIBLE, FACE NAILS SHALL BE USED INSTEAD OF TOE NAILS.

CONCRETE STAIR ON GRADE — 9



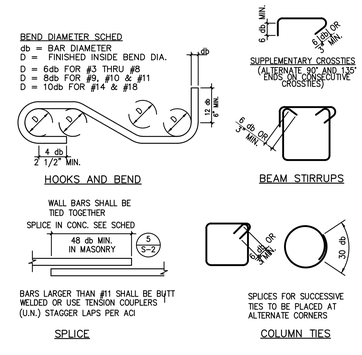
WALLS, FOOTINGS AND BEAMS — 5



ONE LAYER OF REINFORCING

TWO LAYERS OF REINFORCING

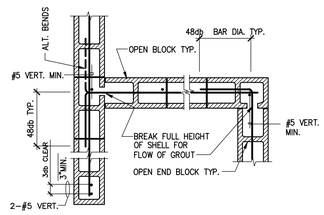
REINFORCING BAR BENDS AND LAPS — 1



HOOKS AND BEND — BEAM STIRRUPS

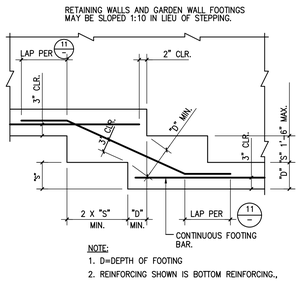
SPLICE — COLUMN TIES

MASONRY WALL INTERSECTIONS — 13



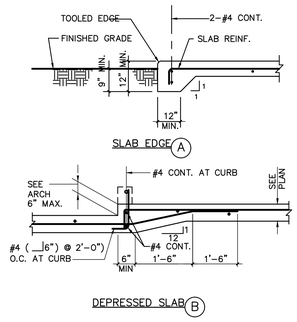
INTERSECTION — CORNER

STEPPED FOOTING — 10



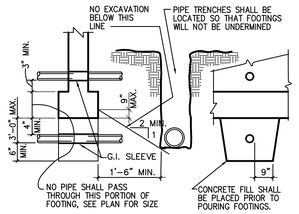
NOTE:
1. D=DEPTH OF FOOTING
2. REINFORCING SHOWN IS BOTTOM REINFORCING.,

SLAB EDGE AND DEPRESSED SLAB — 6



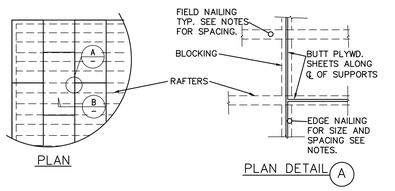
DEPRESSED SLAB (B)

PIPE AND TRENCH LOCATION — 2



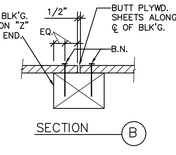
NO PIPES PERMITTED IN OR THROUGH FOOTING PROPERLY CONCRETE FILL SHALL BE SAME WIDTH AS FOOTING PAD AND FULL WIDTH OF PIPE TRENCH. FOOTING SHALL BE STEPPED SO THAT CONCRETE FILL DOES NOT EXCEED 3'–0" ABOVE PIPE INVERT.

ROOF/FLOOR SHEATHING DIAGRAM — 14



PLAN — PLAN DETAIL (A)

ROOF/FLOOR SHEATHING NOTES:
1. THICKNESS: PER PLAN
2. NAILING:
   10d @ 6"o.c. MIN. ALL EDGES (SEE PLAN FOR CLOSER SPACING.)
   10d @ 12"o.c. MIN.
   INTERMEDIATE SUPPORTS
3. PLACE PLYWOOD SHEET WITH FACE PLIES PERPENDICULAR TO JOISTS. STAGGER JOINTS AS INDICATED.
4. PREDRILL HOLES FOR NAILING WHEN WOOD TENDS TO SPLIT.



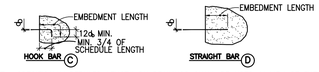
SECTION (B)

REINFORCING BAR SPLICE AND EMBEDMENT LENGTH SCHE. & DETAIL — 11

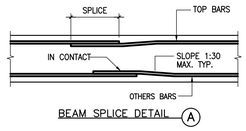
BAR SIZE No.	f'c=3000 psi SPLICE TOP	SPLICE OTHER	EMBEDMENT TOP	EMBEDMENT OTHER
3&4	28	22	22	17
5	35	27	27	21
6	42	32	32	25
7	49	38	38	29
8	59	45	45	35
9	75	57	57	44
10	94	73	73	56
11	116	89	89	69

BAR SIZE No.	f'c=4000 psi SPLICE TOP	SPLICE OTHER	EMBEDMENT TOP	EMBEDMENT OTHER
3&4	24	19	19	15
5	31	24	24	18
6	36	28	30	22
7	43	33	33	25
8	51	39	39	30
9	65	50	50	38
10	82	63	63	49
11	101	77	77	60

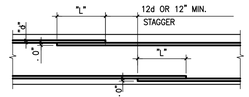
NOTES:
1. ALL DETAILING AND PLACING OF REINFORCING SHALL COMPLY WITH THE LAP AND DETAILS. UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE DRAWINGS.
2. ALL SPLICES SHALL BE STAGGERED AS SHOWN IN (A)&(B)
3. THE SMALLER BAR LAP LENTGH SAHLL BE USED WHEN SPLACING DIFFERENT SIZE BARS.
4. TOP BARS ARE HORIZONTAL REBARS WITH MORE THAN 12" CONCRETE PLACEMENT BELOW DURING A POUR. OTHERS BARS ARE BOTTOM OR VERTICAL BARS.
5. MINIMUM CENTER TO CENTER BAR SPACING SHALL BE THREE (3) BAR DIAMETERS.
6. WHERE STRAIGHT BAR CANNOT BE PROVIDED FOR THE REQUIRED EMBEDMENT, PROVIDE 90° OR 180° HOOK PER (C)



7. SPECIFICALLY DETAILED LENGTH ON DRAWINGS SHALL BE USED IN LIEU OF THE ABOVE SCHEDULED LENGTH.
8. THE CONTRACTOR MAY USE A BUTT WELDED SPLICE IN LIEU OF THE LAP SPLICE SHOWN, SEE REBAR WELDING DETAIL.

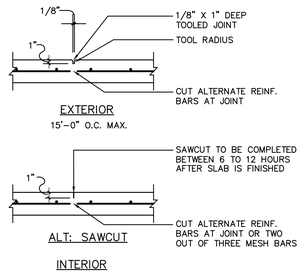


BEAM SPLICE DETAIL (A)



WALL SPLICE DETAIL (B)

SLAB ON GRADE CONTROL JOINT — 7

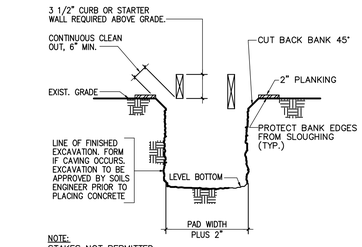


EXTERIOR
15'–0" O.C. MAX.

ALT: SAWCUT

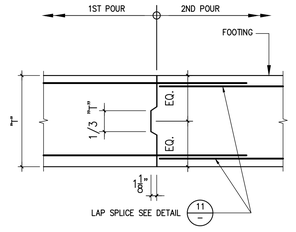
INTERIOR
15'–0" O.C. WHERE NO FLOOR COVERING OCCURS
20'–0" O.C. WHERE FLOOR COVERING OCCURS

FOOTING EXCAVATION — 3

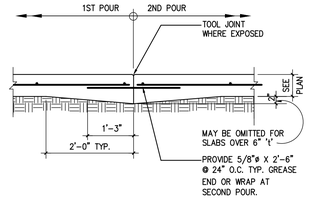


NOTE:
STAKES NOT PERMITTED WITHIN FOOTING SECTION. REMOVE ALL WOOD

FOOTING CONSTRUCTION JOINTS — 8



SLAB ON GRADE CONST. JOINT — 4



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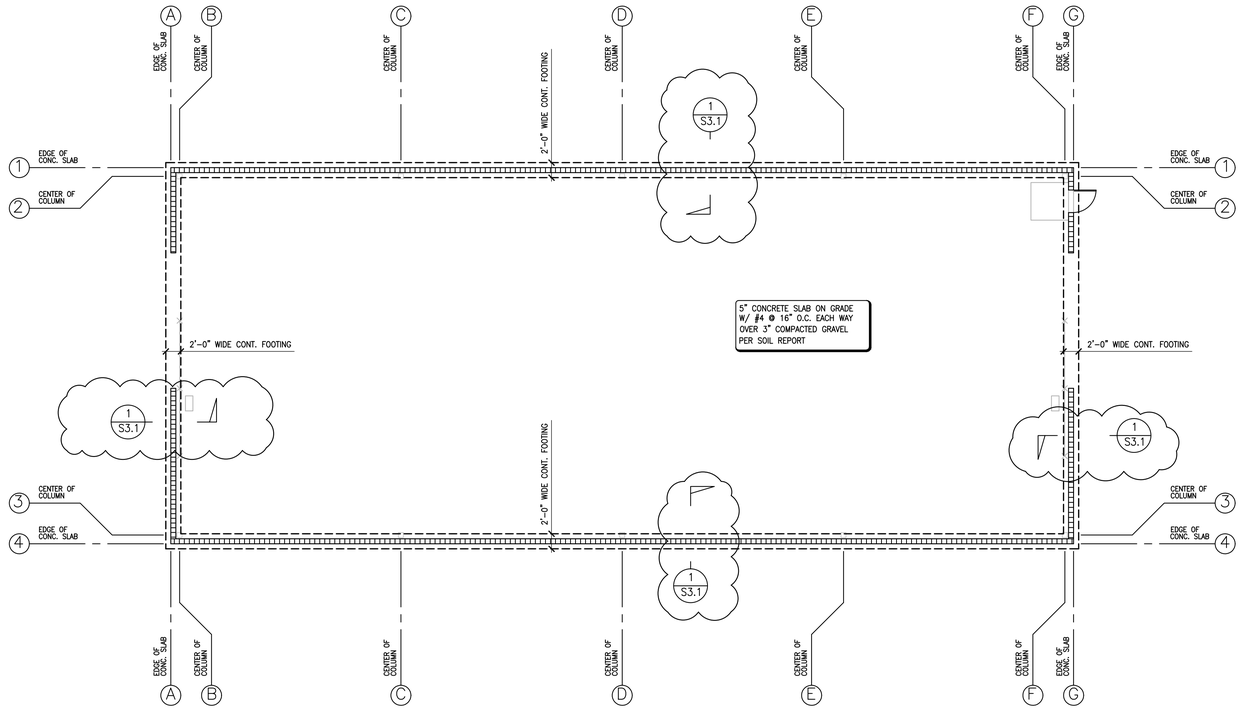
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REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA — STRUCTURAL — JAMES E. SCHULTZ — No. SE2570 — Exp. 3-31-27

APPROVED — THE PLANS PACKAGED FOR THIS SHEET ONLY — SEE MEMO — 2/2/2026, 9:46:20 AM — K202409814 — Dennis Maldonado

KERN COUNTY APPROVED BUILDING INSPECTION — MEETS CODE FOR 2025 CBC — MUST CONFORM TO APPROVED PLANS — MEETS CODE FOR 2025 CRC — MEETS CODE FOR 2025 CEC — MEETS CODE FOR 2025 CPC — MEETS CODE FOR 2025 CMC — MEETS CODE FOR 2025 CGBSC — MEETS CODE FOR 2025 CALGREEN — MEETS CODE FOR 2025 CEBC — MEETS CODE FOR 2025 CFC — MEETS CODE FOR 2025 CRSC — MEETS CODE FOR 2025 CEBSC — MEETS CODE FOR 2025 CMSC — MEETS CODE FOR 2025 CPSC — MEETS CODE FOR 2025 CSC — MEETS CODE FOR 2025 CWSC — MEETS CODE FOR 2025 CSSC — MEETS CODE FOR 2025 CSSC — MEETS CODE FOR 2025 CS



NOTE: PRIOR TO REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL INSPECT AND APPROVE THE FOUNDATION EXCAVATIONS.

N

FOUNDATION PLAN

SCALE: 1/8"=1'-0"

Skarphol / Frank Associates

ARCHITECTURE • PLANNING • INTERIORS

Paul Skarphol, Architect • Gregory Frank, Architect

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KS C. SCHUH
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Exp. 3-31-27
STRUCTURAL
STATE OF CALIFORNIA

KERN COUNTY
APPROVED
BUILDING INSPECTION
SEE APPROVED DRAWINGS FOR SPECIAL INSPECTION AND MATERIAL VERIFICATION REQUIREMENTS
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K202409814
Clemente Milallos

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

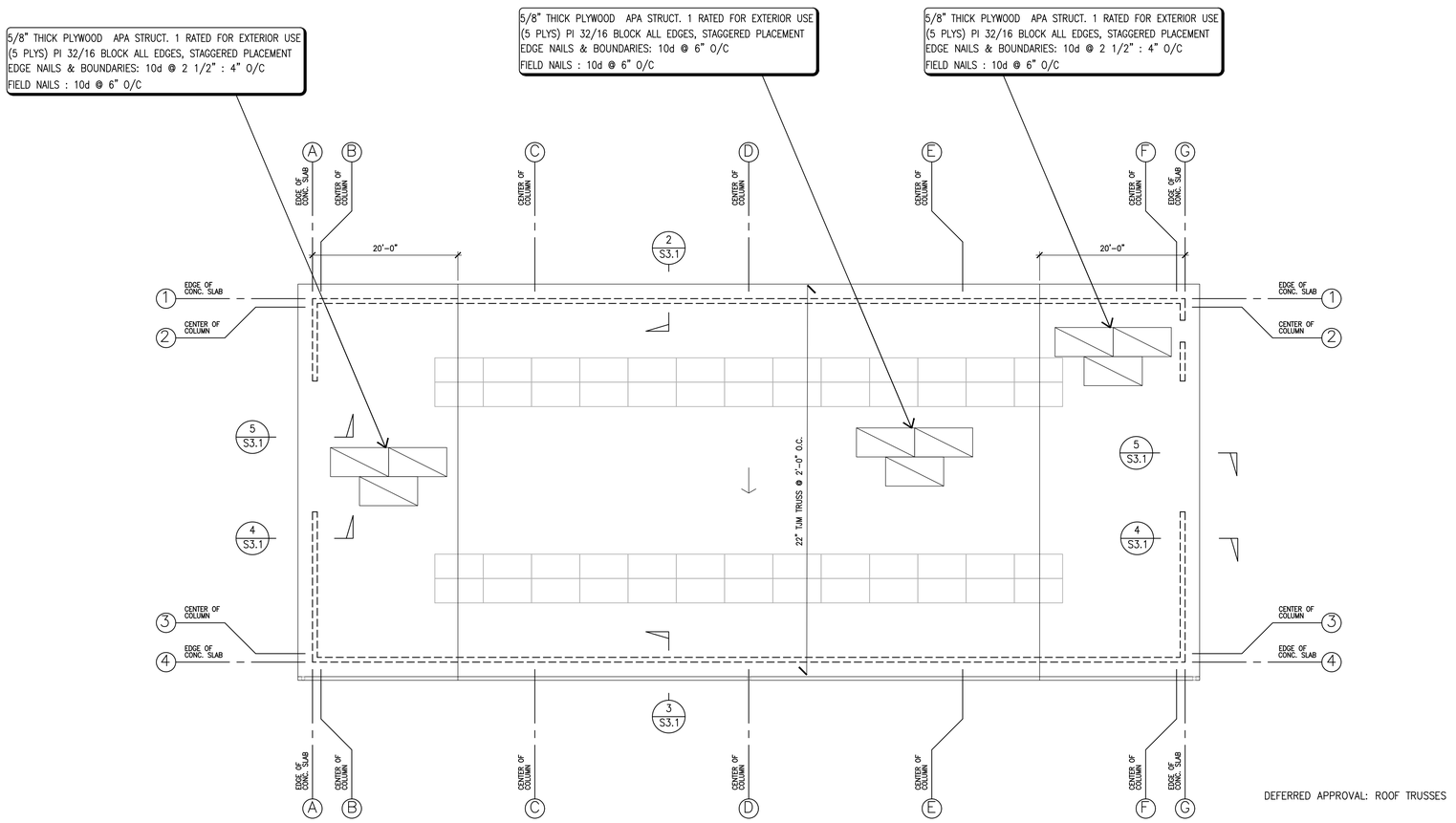
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	S2.1
DP	
PM	



DEFERRED APPROVAL: ROOF TRUSSES

N

ROOF FRAMING PLAN

SCALE: 1/8"=1'-0"

Skarphol/Frank Associates
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STRUCTURAL
No. SE2570
Exp. 3-31-27

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Clemente Milallos

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

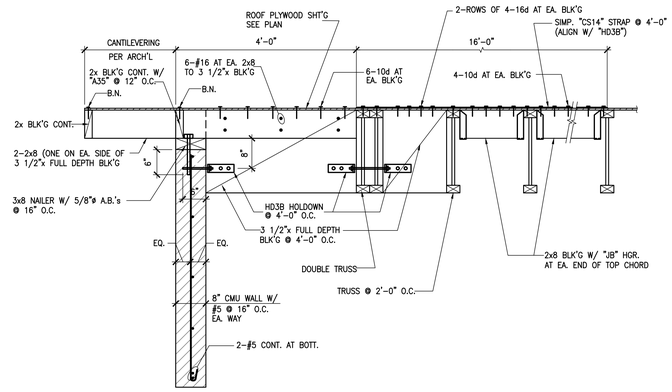
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

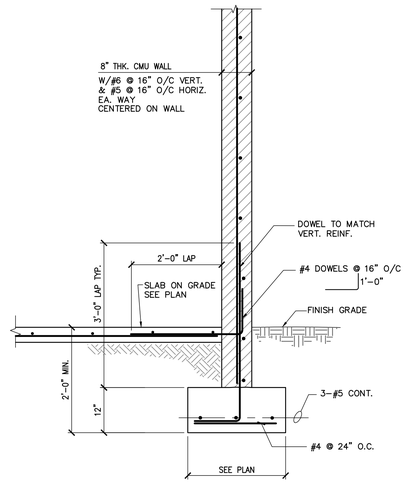
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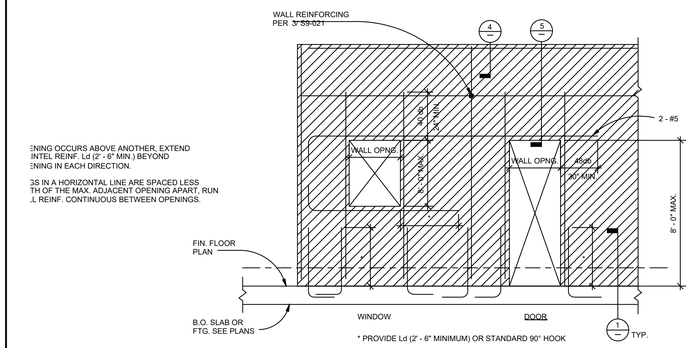
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DETAIL | 5

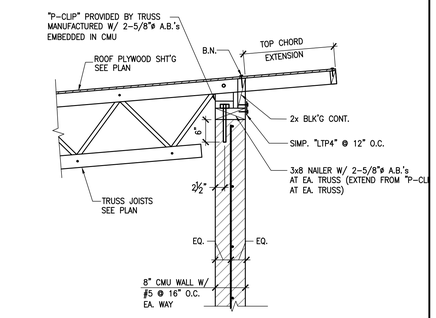


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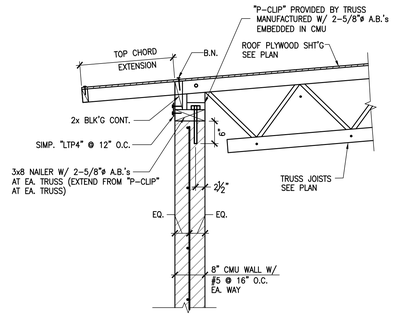


ELEVATION

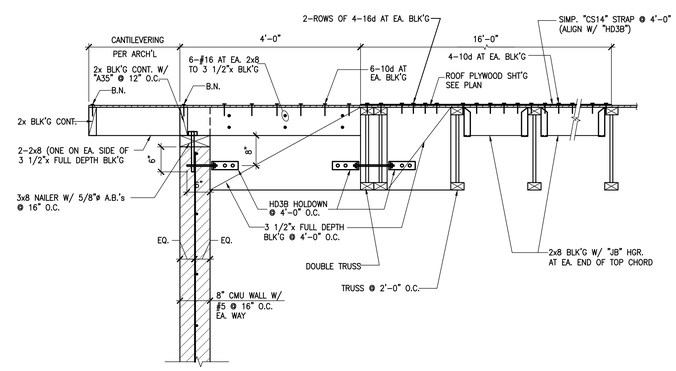
TYP. CMU LOAD BEARING WALL REINFORCING AT OPENINGS | 6



DETAIL | 2



DETAIL | 3



DETAIL | 4

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Dennis McNamara

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REGISTERED PROFESSIONAL ENGINEER
CHARLES E. SCOTT
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STRUCTURAL
STATE OF CALIFORNIA

KERN COUNTY
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A NEW BUILDING FOR:

KERN COUNTY
PUBLIC WORKS

KERN COUNTY
SPECIAL WASTE
FACILITY

SEC OF DOWNING AVE
& WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	
DP	
PM	
	S3.1

SEQUENCE OF OPERATION:

General

1. Pelican Wireless Controls System.
   a. Provide all licenses and passwords for full owner access.
   b. System MUST be accessible by web browser and though a phone app.
   c. Contractor to connect wireless gateway to router and ensure all packaged units are connected to Pelican system and functioning as required.
   d. Mechanical Contract shall include all controls and components as required to complete the sequence of operation for the HVAC systems.
   e. Contractor to set up all operating schedules and temperatures.
   f. Contractor to assist owner in setting up any phone apps as needed.
   g. Contractor to demonstrate to owner function of system, how to make adjustments to programming, etc.
   h. Route thermostat wiring in conduit from wall thermostat to heater(s).
2. Under the Mechanical Contract furnish labor, tools, services, electrical connections and equipment required by the specifications, mechanical plans, control drawings or notes, and sequences of operations. Devices requiring control shown on the mechanical plans, but which are not addressed by control references or the Mechanical Equipment Schedule, must be interlocked with and/or controlled by the Pelican System.
3. Provide demand responsive Zonal HVAC Controls in accordance with title 24, 110.12. The controls shall be capable of receiving a central contact or software point. The room setpoints shall be reset four degrees warmer or colder as required to reduce demand. System must be field tested to demonstrate functionality in accordance with sited energy code section.
4. Optimum start / stop of zones in accordance with 2022 Building Energy Efficiency Standards (Title 24) 120.2(k).
5. Refer to equipment schedules and notes below schedules for additional information regarding control interlocks, monitoring, and controls.
6. Install all wall mounted thermostats and controllers in accessible locations in accordance with CBC Chapter 11B.

Roof mounted central Exhaust Fans:

1. Shall operate on a scheduled basis, interlocked with Pelican System thru powered relay module.

Vehicle Exhaust Fans:

1. Provide Macurco horn strobe, stand-alone detectors, and components to control and stage fans.
   a. Include all wiring, conduit, relays, and components.
   b. Interlock fan control with carbon monoxide and nitrogen oxide sensors located in vehicle drop off corridor.
   c. Control per California Mechanical Code 403.7.2 (1).
2. Set sensor warning levels at 50 ppm CO and 3 ppm NO2
3. Set sensor alarm levels at 200 ppm CO and 5 ppm NO2.

Ceiling exhaust fans:

1. Where serving toilet rooms, shall interlock with room motion detector to operate when occupied. Shall remain operation for a minimum of fifteen minutes after occupant is no longer sensed (adjustable up to 30 minutes).

Ductless Split Systems:

1. Factory thermostat / controller.
2. Temperature monitored by Pelican System.

Economizers:

1. Economizers shall operate with a fixed dry bulb (up to five tons AC), or a differential dry bulb (over five tons).
2. Fault detection status shall be monitored / displayed at the Pelican Thermostat.
3. Outside air dampers shall close when unit is in the unoccupied mode.

Automatic Shutdown

1. All AC units) shall interlock with a local supply duct smoke detector for automatic shut-down upon alarm. Refer to detail / for interlock detail.

Packaged AC Units:

1. Pelican wireless thermostat.
   a. Room thermostat with timed override push button control (15 minutes to 2 hour override adjustable).
   b. Digital room temp display with individual heating and cooling setpoints, dead band, and occupant adjustable warmer - cooler adjustments + / - 2 degrees from setpoint.
2. Scheduled occupancy start / stop.
3. Economizers serving units larger than three tons capacity must have Fault Diagnostic and Detection (FDD) per Title 24 120.2(i).
   a. Start fan one hour prior to occupancy and open outside air damper to minimum position with indoor fan operational as required to flush room of contaminants prior to occupancy. Economizer to function if available for cooling.
4. Staged air volume (See AC Schedule for applicable units).
   a. Fan shall stage from full airflow (100%) in full cooling or heating to 66% airflow in first stage heating or cooling, or when unit is satisfied. Indoor fan shall continue running during all occupied hours.
   b. Outside air damper shall also stage with supply fan as required to maintain minimum prescribed airflow. Economizer control shall override outside air damper position as required to provide economizer cooling.

Evaporative Coolers:

1. Coolers to be manually operated thru an OFF - PUMP - COOL - FAN controller as furnished by Mastercool "Single Point Connection (SPC)" accessory.
2. Contractor to wire and install SPC including 24v wiring to remote control switch located in occupied space.

Warehouse Room Exhaust Fans:

1. Continuous operation with local disconnect.
2. Explosion proof motors.
3. Equipment, wiring, and components compatible with S occupancy.
4. Field interlock each fan operation with motorized outside air damper as noted on plans.

Warehouse Fume Hood Fan.

1. Interlock operation with fume hood fan switch.

Bulking Room Exhaust Fan:

2. Continuous operation with local disconnect.
3. Additional emergency off button, yellow bodied surface mounted switch, red button, and clearly labeled as emergency off switch located at the room entry point.
4. Explosion proof motors.
5. Equipment, wiring, and components compatible with H occupancy.

Warehouse Powerfoil Fans.

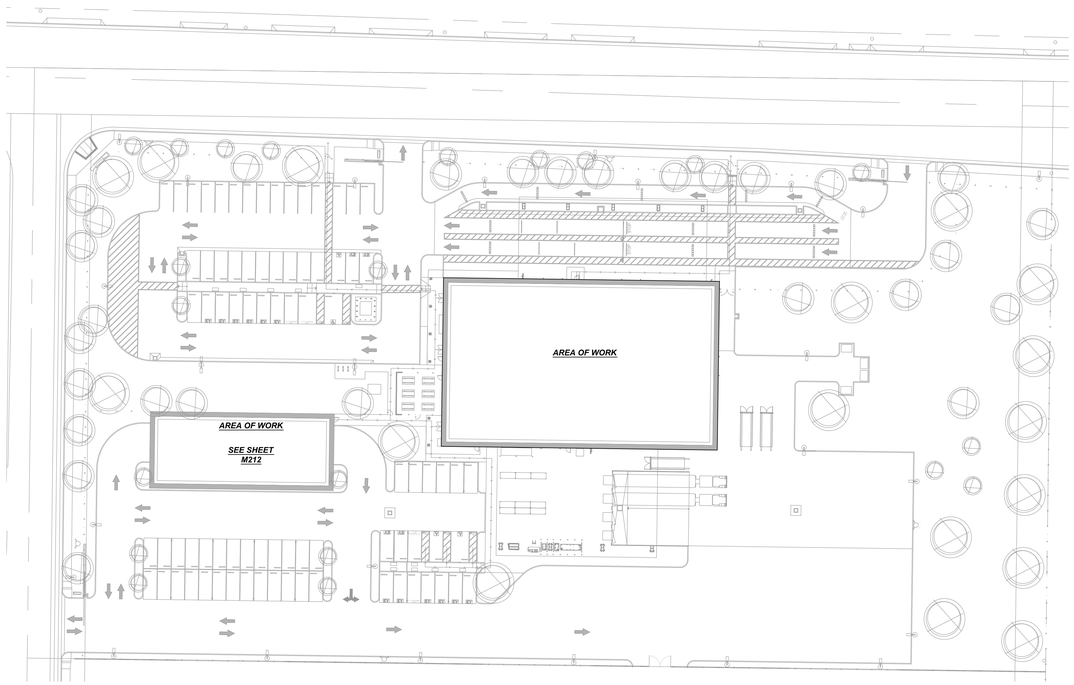
1. Install ESFR (Early Suppression Fast Response) relay at each fan and interlock with FAP (fire alarm panel). Relay can be normally Open (NC) or Normally Closed (NC), but in either case MUST be powered from the FAP. Coordinate with FA contractor prior to ordering relay. Wiring between FAP and ESFR relay to be provided by FA contractor.
2. Install wall mounted controllers. Provide one per fan, except where fans are noted to be daisy chained together. Where daisy chaining occurs, wire noted fans per manufacturer's guidelines, along with setting of sinking controls on fans for simultaneous operation. Install all wall mounted controllers in accessible locations in accordance with CBC Chapter 11B. Route CAT5 cable in conduit from wall mounted controller to fan(s).
3. Adjust field location as much as possible to keep fan blades from below electric light and sky light locations as needed to reduce or eliminate strobing.
4. Train users in the function and operation of the fan. Include training for fan speed and direction of rotation in both heating and cooling modes.

Low Intensity Radiant Tube Heater:

1. Locate radiant heaters so that the heater shield is at or below the level of the adjacent fan blades.
2. Do not allow heat from Radiant Heater to fall on any fire sprinkler heads.
3. Install wall mounted thermostat for heater. Install all wall mounted thermostats in accessible locations in accordance with CBC Chapter 11B.

General Project Note:

1. Coordination of work: Layout of materials, equipment and systems is generally diagrammatic unless specifically dimensioned. Some work may be shown offset for clarity. The actual location of all materials, piping, ductwork, fixtures, equipment, supports, etc. shall be carefully planned, prior to installation of any work to avoid all interferences with each other, or with structural, fire sprinkler, electrical, architectural or other elements. Verify the proper voltage and phase of all equipment with the electrical plans. All conflicts shall be called to the attention of the architect and the engineer prior to the installation of any work or the ordering of any equipment.
2. Cutting, boring, saw cutting or drilling through the new or existing structural elements to be done only when so detailed in the drawings or accepted by the Architect and Structural engineer with the approval of DSA representative.



MECHANICAL SITE PLAN

SCALE: 1/40"=1'-0"

EQUIPMENT SCHEDULE

HP-1

Carrier 50FCQM07 6 Ton Rooftop Packaged Heat Pump Unit, electrically commutated direct drive supply fan motor, 2,400 CFM @ 0.80 E.S.P., 1.20 BHP high stage, 1,600 CFM low stage, 74,990 BTUH total / 59,580 sensible (gross) cooling / 65,100 (net) heating capacity / 11.0 EER / 15.0 IEER / 3.60 C.O.P. at AHRI conditions. 5.5 kW auxiliary strip heater, with single point (unit & heater) power connection. Two-speed fan with ECM control, two stage cooling, two stage heating. 7.11 Sq. Ft. 2" pleated MERV 13 mixed air filters in factory filter rack. Economizer with modulating power exhaust, dry bulb control, and room static pressure control (note P.E. module requires separate power feed and disconnect). Sloped Roof mounting curb with seismically calculated hold down clips. Internal high and low compressor protection, hinged access doors with tie-backs, louvered hail guards, auxiliary strip heater with single point power connection. Field commission supply fan to stage with unit, and outside air damper to stage with supply fan. Include in air balance report high and low stage fan test results along with ventilation rates. Electro-mechanical controls with Pelican thermostat with wi-fi communication back to router. Economizer control to include fault detection and diagnostics with alarm noted at zone thermostat. Mechanical contractor responsible for all wiring and installation including router connection. Factory start-up, first year parts & labor, 2-5 comprehensive parts warranty. Factory start-up to include programming thermostats and assisting owner in the use and setting up phone aps as needed.

Electrical: Operating Weight:
Unit: 59 MCA / 60 MOCP @ 208v-3ph. Unit and Accessories: 840 Lbs.
Power Exhaust: 8 MCA / 14.4 MOCP @ 208v-3ph. Curb: 144 Lbs.

HP-3, 4

Carrier 50VT-30 2.5 Ton Rooftop Packaged Heat Pump Unit, 950 CFM @ 0.40 E.S.P., .46 BHP direct drive supply fan motor, 30,280 BTUH total / 22,400 sensible net cooling / 30,030 net heating capacity / 13.4 SEER2 / 11.05 EER2 / 6.7 HSPF2 at AHRI conditions. 5.4 kW auxiliary strip heater, with single point (unit & heater) power connection. Single stage cooling, single stage heating, 5 year compressor warranty, high and low pressure switches, 0-25% motorized outside air damper, and anti-short cycle timer. 2" pleated MERV 13 mixed air filters in factory filter rack. Sloped roof curb with seismic hold down clips internal high and low compressor protection. Start-up, controls, and warranty per HP-1.

Electrical: Operating Weight:
Unit: 54 MCA / 60 MOCP @ 208v-1ph. Unit and Accessories: 380Lbs.
Curb: 90 Lbs.

HP-2

Carrier 50VRK24 2 Ton Rooftop Packaged Heat Pump Unit, 800 CFM @ 0.80 E.S.P., .39 BHP direct drive supply fan motor, 22,730 BTUH total / 17,650 sensible net cooling / 23,850 net heating capacity / 15.2 SEER2 / 11.5 EER / 7.2 HSPF2 at AHRI conditions. 3.8 kW auxiliary strip heater, with single point (unit & heater) power connection. Single stage cooling, single stage heating, high and low pressure switches, 0-25% motorized outside air damper, and anti-short cycle timer. 2" pleated MERV 13 mixed air filters in factory filter rack. Sloped roof curb with seismic hold down clips internal high and low compressor protection. Start-up, controls, and warranty per HP-1.

Electrical: Operating Weight:
Unit: 40.8 MCA / 45 MOCP @ 208v-1ph. Unit and Accessories: 353 Lbs.
Curb: 64 Lbs.

ODU-1 / IDU-1

Carrier 38MARBQ18 / 40MAHBQ18. 1/4" and 1/2" refrigerant line set (insulate per manufacturer's requirements), variable speed rotary compressor, hi-wall fan coil, 1.5 tons nominal capacity, 21.5 SEER2 / 12.5 EER2 / 11.3 HSPF2, field provided and wired condensate lift pump. Indoor fan coil is powered from outdoor unit, field power wiring provided under electrical contract. Control wiring under mechanical contract. Pelican thermostat interface.

Electrical: 16 MCA / 25 MOCP @ 208v-1ph. Operating Weight: 100 Lbs. (HP)
27 lbs. (FC)

EC-1, 2

MasterCool AD 20012, dual inlet cooler with 12" CELdek media, dual pumps, water inlets, and drains. 23,300 CFM airflow at 0.30" E.S.P., with 10 HP premium efficient belt drive motor. Provide complete with MasterCool single point connection panel field installed and wired. SPC to include 460/115v transformer for pump power, 115/24v controls transformer, low voltage 4-position wall mounted manual controller, and NEMA 3R enclosure. Provide with MasterCool Green Machine sump drain timer. Field built angle iron frame for mounting above roof on level platform.

Electrical: 10 HP @ 208v-3ph. Operating Weight: 1350 Lbs.

PF-1

ThermoTek HVLS-20-TH High Volume, Low Speed Ceiling Fan. 20' aluminum blades, BLDC maintenance free motor, IP 55 rated, Multi-Open Web Joist Bottom mounting kit with steel guy cables, VFD controller, five year parts warranty, Early Suppression Fast Response Relay to interlock with site Fire Alarm Panel for instant shut down upon alarm, all else per Factory Installation guide and Specifications. Install with 60" minimum to roof deck, 144" minimum above finished floor. Wall mounted controller with CAT5 cable to ceiling fan.

Electrical: 2 HP @ 208v-3ph. Operating Weight: 565 Lbs.

PF-2

ThermoTek HVLS-12-TH High Volume, Low Speed Ceiling Fan. 12' aluminum blades, BLDC maintenance free motor, IP 55 rated, Multi-Open Web Joist Bottom mounting kit with steel guy cables, VFD controller, five year parts warranty, Early Suppression Fast Response Relay to interlock with site Fire Alarm Panel for instant shut down upon alarm, all else per Factory Installation guide and Specifications. Install with 60" minimum to roof deck, 144" minimum above finished floor. Wall mounted controller with CAT5 cable to ceiling fan.

Electrical: 1 HP @ 208v-3ph. Operating Weight: 447 Lbs.

RH-1

Superior Radiant Products, TXR-40 Low Intensity Radiant Tube Heater, 40 MBH Natural Gas, 20' heater length, wall controller, shut-off valve option.

Electrical: 1A @ 120v. Operating Weight: 100 Lbs.

EF-1

Greenheck CUE-100-VG Centrifugal Upblast Roof Mounted Exhaust Fan. 1000 CFM @ 0.40" E.S.P., 1452 RPM, .17 BHP, 8.4 sones, 1/4 HP direct drive ECM motor. Provide with sloped roof curb, backdraft damper, dial on motor for balancing, bird screen, and NEMA-1 toggle switch. Interlock fan operation with Pelican Powered Relay Module.

Electrical: 1/4 HP @ 115v-1ph. Operating Weight: 47 Lbs.

EF-2, 3

Greenheck BSQ-240 Belt Drive Inline Centrifugal Exhaust Fan. 7500 CFM @ 0.4" E.S.P., 843 RPM, 1.70 BHP, 2 HP explosion proof premium efficiency motor, 19.7 Sones. Provide with hanging brackets, extended lube lines, adjustable drive, toggle switch in NEMA 7 enclosure. Fan to operate continuously with local disconnect for service off.

Electrical: 2 HP @ 208v-3ph. Operating Weight: 275 Lbs.

EF-4

Greenheck BSQ-140 Belt Drive Inline Centrifugal Exhaust Fan. 2000 CFM @ 0.5" E.S.P., 1272 RPM, 0.46 BHP, 3/4 HP explosion proof premium efficiency motor, 13.0 Sones. Provide with hanging brackets, extended lube lines, adjustable drive, toggle switch in NEMA 7 enclosure. Fan to operate continuously with local disconnect for service off. Provide wall mounted Emergency Off Button at entry to Bulking Room for emergency shut down. Provide etched plastic label to mark service.

Electrical: 3/4 HP @ 115v-1ph. Operating Weight: 148 Lbs.

EF-5

Greenheck BSQ-100 Belt Drive Inline Centrifugal Exhaust Fan with Horizontal Discharge Option. 1120 CFM @ 1.0" E.S.P., 1783 RPM, 0.38 BHP, 1/2 HP explosion proof premium efficiency motor, 13.2 Sones. Provide with hanging brackets, extended lube lines, adjustable drive, toggle switch in NEMA 7 enclosure. Fan to interlock with fume hood fan switch.

Electrical: 1/2 HP @ 115v-1ph. Operating Weight: 112 Lbs.

EF-6, 7

Greenheck SBE-2H20-5 Sidewall Belt Drive Fan. 2500 CFM @ 0.3" E.S.P., 963 RPM, 0.26 BHP, 1/2 HP explosion proof belt drive motor, 16.6 Sones. Provide with short wall sleeve, mounting angles, 45 degree weather hood, extended lube lines, adjustable drive, toggle switch in NEMA 7 enclosure. Fan to interlock with Macurco garage exhaust system sensor. Fans to stage based on readings at gas detection readings.

Electrical: 1/2 HP @ 115v-1ph. Operating Weight: 15Lbs.

GRILLE & LOUVER SCHEDULE

CD-1

Titus Model TDC Louvered Face Diffuser with T-Bar frame and O.B.D. See diffuser sizing chart for neck sizes.

CD-2

Titus Model TDC Louvered Face Diffuser with flat surface mount frame and O.B.D. See diffuser sizing chart for neck sizes.

DS-1

Titus Model 300RL double deflection wall mounted supply grille O.B.D.

DL-1

Titus DL-5V Drum Louver, rotating core, air scoop.

CR-1

Titus Model 50F, eggcrate return grille with T-Bar ceiling frame.

CR-2

Titus Model 35RL, 35 degree deflection, surface mounting frame, O.B.D.

DR-1

Titus 3Model 50 ZRL, zero degree deflection, O.B.D.

CE-1

Titus Model 35RL, 35 degree deflection, surface mounting frame, O.B.D.

L-1

Ruskin ELF375 with flange frame and bird screen. Prime coat for field painting.

Note: Paint all visible surfaces behind diffusers and grilles flat black.

Air Conditioning Legend

SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	A.C.	Air Conditioning		H.W.R.	Heating Water Return
	A.D.	Access Door		H.W.S.	Heating Water Supply
	A.F.F.	Above Finished Floor		INT.	Internal
	A.H.	Air Handler		LOC.	Location
	B.A.S.	Building Automation System		M.O.	Motor Operated
	B.V.	Butterfly Valve		(N)	New
	C.D.	Condensate Drain		N.C.	Normally Closed
	C.E.	Ceiling Exhaust Register		N.I.C.	Not in Contract
	C.W.R.	Condenser Water Return		N.O.	Normally Open
	C.W.S.	Condensor Water Supply		O.S.A.	Outside Air
	C.H.W.R.	Chilled/Hot Water Return		O.B.D.	Opposed Blade Damper
	C.H.W.S.	Chilled/Hot Water Supply		P.O.C.	Point of Connection
	COMB.	Combustion		P.P	Pitons Pipe
	CONN.	Connection		PROV.	Provide
	CONT.	Continuation		P.R.V.	Pressure Reducing Valve
	C.R.	Ceiling Return Register		SIM.	Similar
	CLG.	Ceiling	G.F.D.	G.F.D.	Smoke / Fire Damper w/ access panel
	C.S.	Ceiling Supply Register			
	C.V.	Check Valve		S.M. or S/M	Sheet Metal
	D.C.W.	Domestic Cold Water		S.O.V.	Shut Off Valve
	DIA.	Diameter		S.P.S.T.	Single Pole Single Throw
	D.L.	Door Louver		STAT.	Thermostats or Room Sensor
	DN.	Down		SURF.	Surface
	D.P.D.T.	Double Pole Double Throw		(TYP)	Typical
	D.T.R.	Duct Thru Roof		U.G.	Underground
	(E)	Existing		U.N.O.	Unless Noted Otherwise
	E.F.	Exhaust Fan		V.D.	Volume Damper
	E.M.S.	Energy Management System		V.D.	Vol. Damper w/ Remote Operator
	EX.	Exhaust		W/	With
F.D.	F.D.	Fire Damper w/ acc. panel		W.R.	Wall Return Register
	Flex. Conn	Flexible Connection		W.S.	Wall Supply Register
	FLR.	Floor			Duct w/ Acoustic Lining
	F.T.R.	Flue Thru Roof		T.V.	Turning Vanes
	Furn.	Furnace			Extractor
	GA.	Gauge			
	GAL.	Gallon			
	GALV.	Galvanized			CO2 SENSOR
	G.P.M.	Gallons per Minute			
	GRD.	Grade			Union
	G.V.	Gate Valve			Reducer or Increaser

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175 Fulton Street
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Dennis McNamara

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DENNIS JAMES McNAMARA
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MECHANICAL
STATE OF CALIFORNIA

PLANS APPROVED
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A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

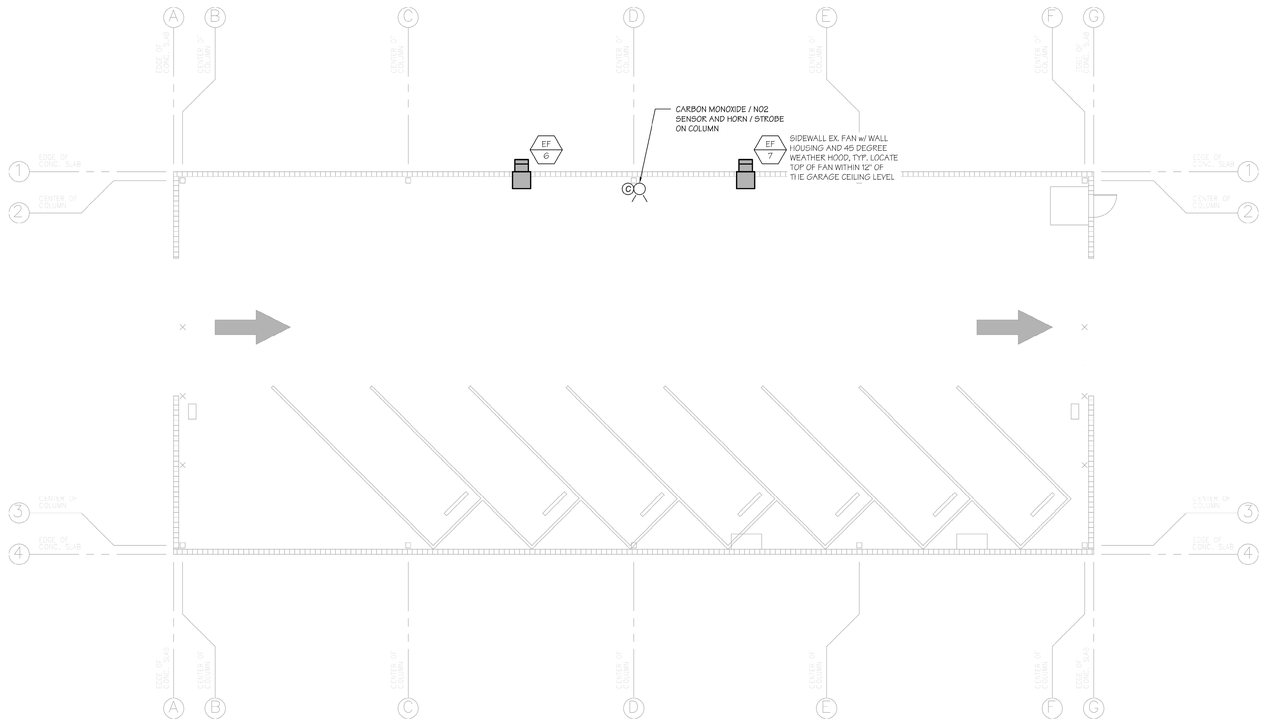
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BAKERSFIELD, CALIFORNIA

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2	BLACK CHECK

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MECHANICAL FLOOR PLAN

SCALE: 1/8"=1'-0"

2

EXHAUST REQ. TABLE

ROOM	AREA	CFM / SQ FT	CFM REQUIRED	CODE(S)	CFM PROVIDED	CONTROLS
E-WASTE, PAINT, GEN. STORAGE	13,384	1.0	13,384	CFC 5004.3.1	15,000	CONTINUOUS
BULKING	800	1.0	800	CFC 5004.3.1	2,000	CONTINUOUS (1)
PARKING GARAGE	5775	0.75	4,331	CMC TABLE 403.7	5,000	CO / NO2 SENSOR (2)

1. EMERGENCY SHUT-OFF PER CFC 5004.3.1.4.
2. 50 PPM CO OR 1 PPM NO2 PER CMC 403.7.2(2).

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A NEW BUILDING FOR:

KERN COUNTY
PUBLIC WORKS

KERN COUNTY
SPECIAL WASTE
FACILITY

SEC OF DOWNING AVE
& WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	DESCRIPTION

REVISION	DESCRIPTION
1	BACK CHECK
2	BACK CHECK

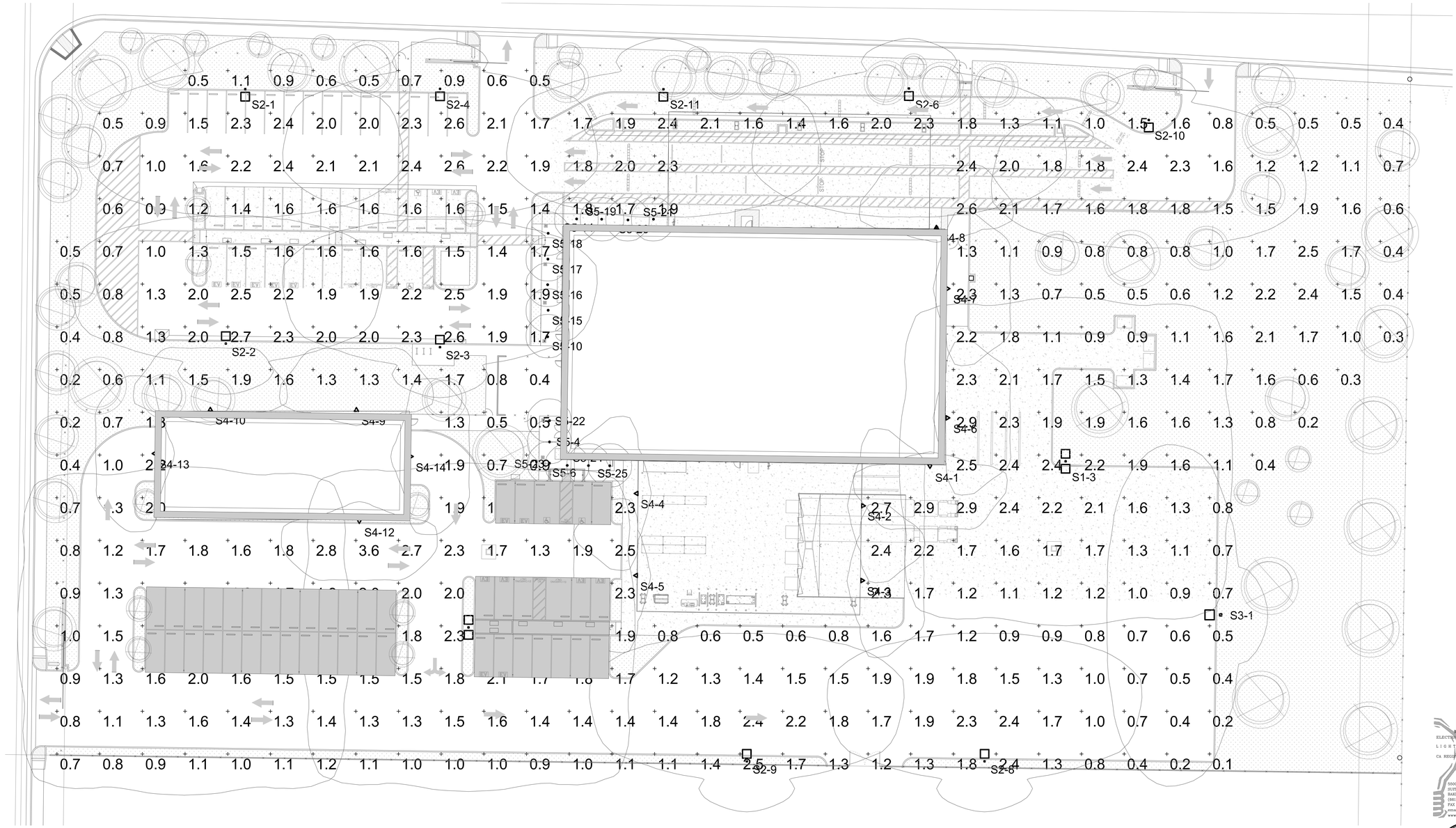
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LIGHTING SCHEDULE

Symbol	Label	Qty	Manufacturer	Catalog Number	Description	Number Lamps	Lamp Output	LLF	Input Power	Distribution	Notes
	S1	3	Lithonia Lighting	DSX1 LED P4 40K 70 CRI T5W MVOLT SPA DDBXD/SSS 23FT 4G DM28AS DDBXD	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 5 Wide	1	17013	0.92	247.88	TYPE VS, BUG RATING: B5 - U0 - G3	MOUNTED ON 2FT BASE
	S2	9	Lithonia Lighting	DSX1 LED P4 40K 70CRI T3M MVOLT SPA DDBXD/SSS 23FT 4G DM19AS DDBXD	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 3 Medium	1	16032	0.92	123.94	TYPE IV, MEDIUM, BUG RATING: B2 - U0 - G4	MOUNTED ON 2FT BASE
	S3	1	Lithonia Lighting	DSX1 LED P4 40K 70CRI T2M MVOLT SPA DDBXD/SSS 23FT 4G DM19AS DDBXD	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 2 Medium	1	15849	0.92	123.94	TYPE III, MEDIUM, BUG RATING: B3 - U0 - G4	MOUNTED ON 2FT BASE
	S4	13	Lithonia Lighting	WDGE2 LED P3 40K 70CRI T3M	WDGE2 LED WITH P3 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 3 MEDIUM OPTIC	1	3629	0.92	32.1375	TYPE III, MEDIUM, BUG RATING: B1 - U0 - G1	
	S5	15	GOTHAM	EVO4 40/10 AR MWD LS MVOLT EZ1	LED RECESSED 4IN ROUND DOWNLIGHT	1	1017	0.92	8.8	DIRECT, SC-0=1.08, SC-90=1.08	

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	UG
SITE LIGHTING	+	1.5 fc	3.6 fc	0.1 fc	36.0:1	15.0:1	5.9



N

SITE LIGHTING PHOTOMETRIC PLAN

20'

Skarphol / Frank Associates
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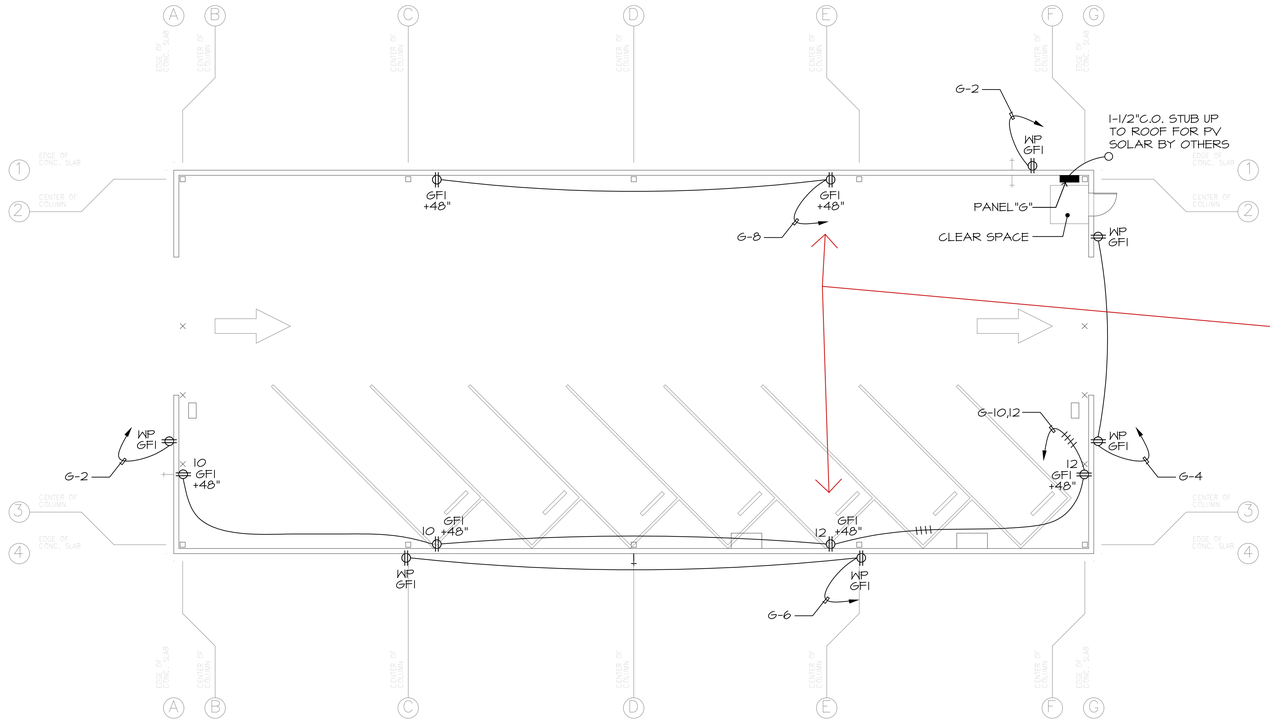
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JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
23754
5500 WING AVENUE, SUITE 251
BAKERSFIELD, CA 93309
(661) 831-7501
FAX (661) 831-7813
email : mahoney@jmpe.net
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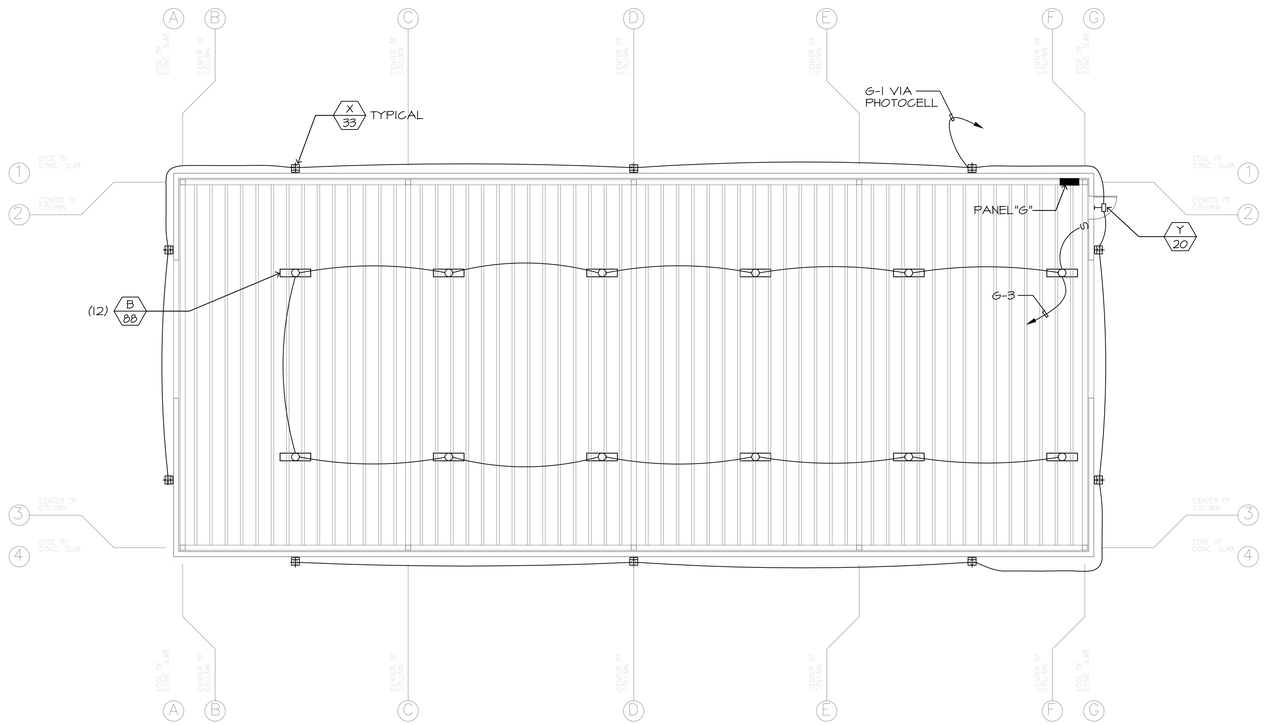
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PARKING GARAGE POWER PLAN

1/8"



N

PARKING GARAGE LIGHTING PLAN

1/8"

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JOB	
DP	E210
PM	

(N) PANEL SCHEDULE "A"

SERVICE: 120/208V 3Φ 4W | MAIN BKR.: MLO | BUS: 100A | LOC.: SEE PLAN | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LTG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LTG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
EXT REC	360			2			1	20	1	2	20	1	1			500			
"		360		2			1	20	3	4	20	1	1				500		GEN REC
"			360	2			1	20	5	6	20	1	2					800	JANITOR REC
"	760			2			1	20	7	8	20	1	2			800			IDF
"		540		3			1	20	9	10	20	1	3				540		"
PATIO REC			360	2			1	20	11	12	20	1	4					720	CONF ROOM REC
"	540			3			1	20	13	14	20	1	3			540			"
STOP N SHOP		540		3			1	20	15	16	20	1	2				360		"
"			360	2			1	20	17	18	20	1	1					500	R/R REC
OFFICE REC	720			4			1	20	19	20	20	1	1			500			BREAK RM COUNTER
OPEN OFFICE REC		360		2			1	20	21	22	20	1	1				850		REFRIG
"			500	1			1	20	23	24	20	1	1					850	"
"	360			2			1	20	25	26	20	1	1			500			BREAK RM COUNTER
"		360		2			1	20	27	28	20	1	2				360		BREAK RM REC
"			360	2			1	20	29	30	20	1			2			200	WH & CP
"	360			2			1	20	31	32	20	1							SPARE
GEN WAREHOUSE REC		540		3			1	20	33	34	20	1							"
SPARE							1	20	35	36	20	1	1					800	SHOW WINDOW REC
"							1	20	37	38	20	1	2			360			BATTERY AREA REC
PF-1	1490					1	1	20	39	40	20	1	2				360		"
PF-2		1746				1	1	20	41	42	20	1			1			600	FUME HOOD

TOTAL WATTS= 19,410 | ΦA=5540 | ΦB=6314 | ΦC= 7556

AMPS= 54A | MINIMUM BKR | A.I.C. RATING= 10,000 AMPS SYM

(N) PANEL SCHEDULE "L"

SERVICE: 120/208V 3Φ 4W | MAIN BKR.: MLO | BUS: 100A | LOC.: SEE PLAN

LUTRON # XPS24-1204ML-20 | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LTG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LTG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
R/R LIGHTING	588				42		1	20	1	2	20	1		26		1040			EXT LIGHTING
SHOP & LAB LTG		704			8		1	20	3	4	20	1		10			880		CARPORT LIGHTING
CONF & OFFICE LTG			720		18		1	20	5	6	20	1		2				1368	WAREHOUSE LTG
OFFICE LTG	840				21		1	20	7	8	20	1		2		1368			"
PARKING LOT LTG		1240			9		1	20	9	10	20	1		2			1824		"
"			750		4		1	20	11	12	20	1		2				1824	"
SPARE							1	20	13	14	20	1		2		1824			"
"							1	20	15	16	20	1		15			1320		CARPORT LIGHTING
"							1	20	17	18	20	1		2				1368	WAREHOUSE LTG
"							1	20	19	20	20	1		4		1450			"
"							1	20	21	22	20	1		2			1368		"
"							1	20	23	24	20	1							SPARE

TOTAL WATTS= 20,476 | ΦA=7110 | ΦB=7336 | ΦC= 6030

AMPS= 57A X 1.25 = 71A | MINIMUM BKR | A.I.C. RATING= 10,000 AMPS SYM

(N) PANEL SCHEDULE "G"

SERVICE: 120/208V 3Φ 4W | MAIN BKR.: 200A-3P | BUS: 225A | LOC.: GARAGE | MTG.: SURFACE

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LTG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LTG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
EXT REC	540			11					1	2	20	1	2			360			EXT REC
INT. REC		1006		12					3	4	20	1	2				360		"
SPARE									5	6	20	1	2					360	"
"									7	8	20	1	2			360			NORTH WALL REC
EV CHARGER		3600					1	2	40	9	10	20	1	2				360	SOUTH WALL REC
"			3600					X	X	11	12	20	1	2					360	"
"	3600						1	2	40	13	14	20	1						SPARE
"		3600						X	X	15	16	20	1						"
EV CHARGER			3600				1	2	40	17	18	20	1		1			1200	SIGN
"	3600							X	X	19	20	20	1		1	1200			"
"		3600					1	2	40	21	22	20	1		1		1200		"
"			3600					X	X	23	24	20	1		1			1200	"
FUTURE EV CHGR								2	40	25	26	20	1						SPARE
"								X	X	27	28	20	1						"
"								2	40	29	30	20	1						"
"								X	X	31	32	20	1						"
"								2	40	33	34	20	1						"
"								X	X	35	36	20	1						"
SPACE										37	38	20	1						"
"										39	40	20	1						"
"										41	42	20	1						"

TOTAL WATTS= 37,305 | ΦA=9660 | ΦB= 13725 | ΦC= 13920

AMPS= 103A X 1.25 = 130A | MINIMUM BKR | A.I.C. RATING= 10,000 AMPS SYM

ACCESSIBILITY NOTES

Installation of switches, outlets and controls to reflect the accessibility requirements of the 2022 accessibility codes

1. CBC 11B-308.1.1 Electrical controls and switches intended to be used by the occupant of a room or area shall be located within the allowable reach ranges. Low reach shall be measured from the bottom of the outlet box and high reach is measured to the top of the outlet box.

2. CBC 11B-308.1.2 Electrical receptacle outlets on branch circuits of 30 amperes or less and communication system receptacles shall be located in the allowable reach range. Low reach shall be measured from the bottom of the outlet box and high reach is measured to the top of the outlet box.

3. CBC 11B-308.2.1 High forward reach that is unobstructed shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above finish floor or ground.

4. CBC 11B-308.2.2 Forward Reach Obstructed - Electrical receptacle outlets shall be located no more than 44 inches measured from the top of the receptacle outlet box when the obstruction is over 20" and does not exceed 25". When the depth is less than 20" height can be increased to 48". (desk counters)

5. CBC 11B-308.3 Side Reach Obstructed - Electrical receptacle outlets shall be located no more than 46 inches measured from the top of the receptacle outlet box when the obstruction is over 10" and does not exceed 24". When the depth is less than 10" height can be increased to 48". Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches maximum and the depth of the obstruction shall be 24 inches maximum.

6. Overhang light fixtures or wall fixtures projecting more than 4" from the wall surface shall be a minimum of 80" above the walking surface.

ELECTRICAL LOAD SUMMARY

PANEL "A":	54A
PANEL "L":	71A
PANEL "G":	130A
PANEL "M":	171A
PANEL "W":	181A
TOTAL :	607A

GENERAL NOTES

1. VISIT JOB SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID.
2. THE ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2022 CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES. WHERE PLANS CALL FOR A HIGHER STANDARD THAN APPLICABLE CODES, THE PLANS SHALL GOVERN.
3. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
4. ALL ELECTRICAL EQUIPMENT, APPLIANCES AND LIGHTING FIXTURES SHALL BE LISTED BY A RECOGNIZED TEST LAB AND BEAR THAT LABEL OF APPROVAL.
5. CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIAL AND EQUIPMENT FOR THIS WORK UNLESS OTHERWISE NOTED.
6. FURNISH DISCONNECT SWITCHES AT REMOTE MOTORS.
7. ALL SPACES AS INDICATED ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARE AND BUSSING FOR FUTURE BREAKER OR SWITCH.
8. CHECK ARCHITECTURAL PLANS FOR DOOR SWINGS BEFORE INSTALLING SWITCH OUTLETS.
9. GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS SPECIFIED OR SHOWN ON DRAWINGS.
10. ALL CONDUIT RUNS SHALL CONTAIN A CODE SIZED GREEN GROUND WIRE.
11. THESE PLANS ARE NOT COMPLETE UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION.
12. ALL CONDUCTORS SHALL BE IN CONDUIT.
13. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.
14. COORDINATE WITH SERVING ELECTRICAL UTILITY COMPANY AND MAKE PROVISIONS FOR ELECTRICAL SERVICE ACCORDINGLY. INCLUDE ALL SERVICE COSTS AND UTILITY COMPANY CHARGES IN BID.
15. COORDINATE WITH SERVING TELEPHONE UTILITY COMPANY AND MAKE PROVISIONS FOR TELEPHONE SERVICE ACCORDINGLY. INCLUDE ALL SERVICE COSTS AND ANY UTILITY COMPANY CHARGES IN BID.
16. COORDINATE WITH SERVING CABLE TELEVISION COMPANY AND MAKE PROVISIONS FOR CABLE TELEVISION ACCORDINGLY. INCLUDE ALL SERVICE COSTS AND ANY UTILITY COMPANY CHARGES IN BID.
17. ALL PERMITS SHALL BE OBTAINED AND PAID FOR BY CONTRACTOR.

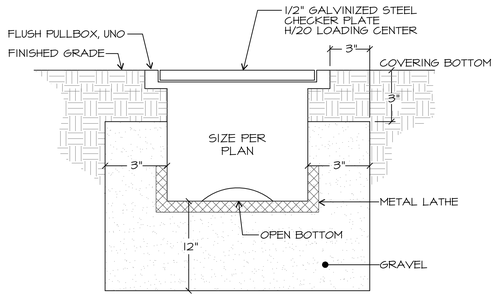
SYMBOLS

- CONDUIT EXISTING
- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT CONCEALED UNDER FLOOR OR BELOW GRADE
- CONDUIT STUBBED OUT AND CAPPED
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- MATCH MARKS INDICATE NO. OF #12 WIRES IN CODE SIZED CONDUIT (3) MAX. IN 1/2" C., (5) MAX. IN 3/4" C., (8) MAX. IN 1"C., NO MARKS = 2 #12
- A-3 HOME RUN: LETTER INDICATES PANEL, NUMBER(S) INDICATES CIRCUIT(S).
- SANCUT
- GROUND CONNECTION
- DISTRIBUTION SWITCHBOARD OR PANEL
- PANEL, BRANCH CIRCUIT TYPE, SURFACE AND FLUSH
- SIGNAL TERMINAL CABINET, SURFACE & FLUSH
- FLUORESCENT FIXTURE
- 2 a OUTLET DATA: BAR INDICATES WALL MOUNT, LETTER INDICATES SWITCH CONTROL, NO. INDICATES CIRCUIT.
- SURFACE FIXTURE ON FLUSH OUTLET.
- RECESSED FIXTURE WITH JUNCTION BOX FOR THRU WIRING
- EXIT LIGHT WITH ARROWS AS SHOWN ON PLANS, WALL AND CEILING MOUNT.
- LOW LEVEL EXIT SIGN, +6" AFF, +4" FROM DOOR JAMB
- A / 100 LIGHT FIXTURE DESIGNATION, LETTER INDICATES TYPE, NO. INDICATES WATTAGE. SEE FIXTURE SCHEDULE.
- FC / 1 MECHANICAL EQUIPMENT DESIGNATION. SEE MECHANICAL DRAWINGS.
- SPECIAL RECEPTACLE – SEE PLAN
- (M) METER
- FLUSH FLOOR RECEPTACLE
- RECEPTACLE, DUPLEX, 15A, 125V, NEMA 5-15R +15" TO BOTTOM
- DUPLEX RECEPTACLE MTD. ABOVE BACKSPLASH
- DUPLEX RECEPTACLE W/LOWER HALF SWITCHED
- GFI GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- CEILING RECEPTACLE
- RECEPTACLE, DUPLEX, 20A, 125V, NEMA 5-20R +18" U.N.O.
- JUNCTION BOX 4" SQUARE, 1-1/2" DEEP U.N.O.
- T THERMOSTAT F.B.O. +48"
- (2) MOTOR, NO. INDICATES HORSEPOWER
- CLOCK OUTLET +7'-6" U.N.O.
- DISCONNECT SWITCH, NON-FUSED
- F DISCONNECT SWITCH FUSED HORSEPOWER RATED OR SIZED AS NOTED
- COMBINATION MAGNETIC STARTER WITH DISCONNECT SWITCH AND FUSES
- MAGNETIC MOTOR STARTER W/OVERLOADS IN EACH PHASE
- D DIMMER W/INTEGRAL "ON-OFF" SW.
- PUSHBUTTON
- PC PHOTOCELL
- SD SMOKE DETECTOR
- TELEPHONE/COMPUTER/DATA OUTLET, TWO GANG BOX W/1 GANG COVERPLATE & GROMMETED OPENING +18" U.N.O.
- CABLE TV OUTLET +18" U.N.O.
- M MOTION SENSOR
- $ EXISTING SWITCH
- S SINGLE POLE SWITCH
- ^{2} DOUBLE POLE SWITCH
- ^{3} THREE WAY SWITCH
- ^{P} SWITCH W/PILOT LT.

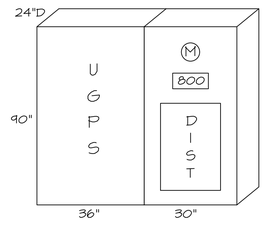
  (QUIET TOGGLE TYPE RATED AT 20A, 120/277V A.C. +42" U.N.O.)
- ^{M} MANUAL MOTOR STARTER

FACP	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT CIRCUIT INTERRUPTING
LST	LABOR SAVING TANDEM
MLO	MAIN LUGS ONLY
w/	WITH
C.O.	CONDUIT ONLY
W.P.	WEATHERPROOF
F.B.O.	FURNISHED BY OTHERS, INSTALL & CONNECT
U.N.O.	UNLESS NOTED OTHERWISE
N.E.C.	NATIONAL ELECTRICAL CODE
N.I.C.	NOT IN CONTRACT
(E)	EXISTING
(N)	NEW
(R)	REMOVE
(RL)	RELOCATE
S/M	SURFACE MOUNT
U/G	UNDERGROUND
CWP	COLD WATER PIPE
AFF	ABOVE FINISHED FLOOR
HACR	HEATING AND AIR CONDITIONING RATED CIRCUIT BREAKER
N.L.	NIGHT LIGHT

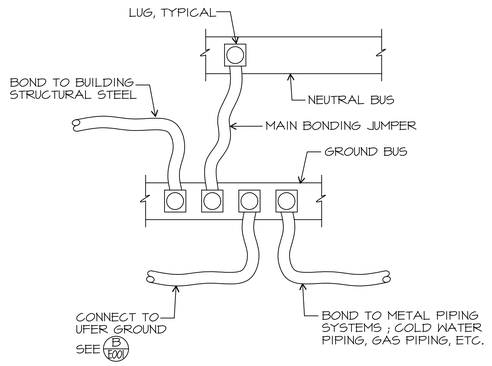
NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THIS PROJECT.



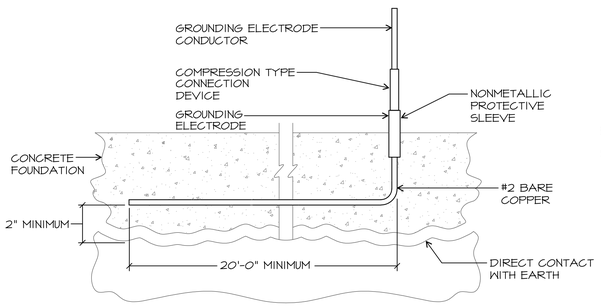
FLUSH PULLBOX DETAIL (E)
SCALE: NONE



SWITCHBOARD ELEVATION (D)
SCALE: NONE

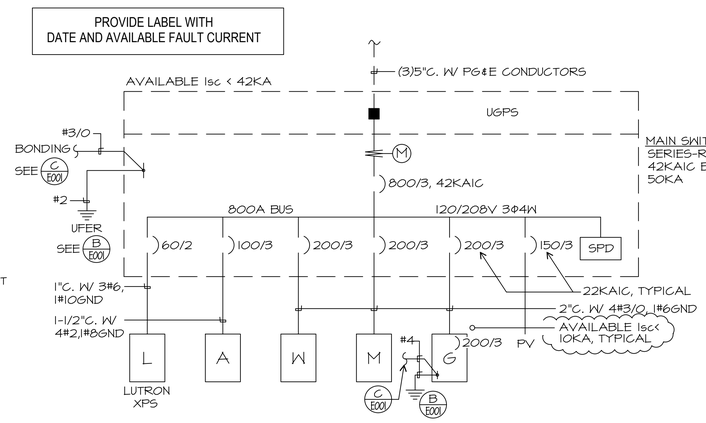


BONDING DIAGRAM (C)
SCALE: NONE



THE GROUNDING SYSTEM SHALL CONSIST OF A "UFER" TYPE 20' LONG OF #2 BARE COPPER CONDUCTOR EMBEDDED ALONG THE BOTTOM OF A CONCRETE FOOTING OR GRADE BEAM THAT IS IN DIRECT CONTACT WITH THE EARTH.

UFER GROUND DETAIL (B)
SCALE: NONE



SINGLE LINE DIAGRAM (A)
SCALE: NONE

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email : maloney@jmpe.net
www.jmpe.net

REGISTERED PROFESSIONAL ENGINEER MATTHEW J. MALONEY No. E013688 EXP. 6/30/2027 ELECTRICAL STATE OF CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

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DP	
PM	

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LED FIXTURE SCHEDULE

		LED MODULE					
TYPE	MANUFACTURER AND CATALOG NUMBER	TYPE	COLOR TEMP	WATTS	DRIVER	OPTIC/LENS	REMARKS
A 25	FOCAL POINT FEQ2 24 AC 40L 35K 1C UNV L11 GX WH		3500K	38	0-10V	DIFFUSE	2X4
B 88	LITHONIA CPHB12LM MVOLT 40K TLS WH		4000K	88	0-10V	GLARE CONTROL	COMPACT BAY LIGHT W/ MOTION SENSOR
C 35	LITHONIA FMLWL848 40K		4000K	40	0-10V	DIFFUSE	WRAP AROUND
D 14	LITHONIA LDN4-35/15-LO4ARLDTRW MVOLTGZ10		3500K	14	0-10V	DIFFUSE	4" DOWNLIGHT
E 3	ISOLITE BUG6WH		GREEN	3	NICAD BATTERY	PRISMATIC	EXIT SIGN WITH EM LIGHT
EM 6	ISOLITE BUG6WH		4000K	6	NICAD BATTERY	PRISMATIC	EM LIGHT
F1 550	A-LIGHT G3-36FT-LVH-40-U-HE-F-T-D-Q		4000K	36/19	0-10V	HE TECH	S/M CEILING 36FT LINEAR LIGHT
F2 832	A-LIGHT G3-48FT-LVH-40-U-HE-F-T-D-Q		4000K	48/19	0-10V	HE TECH	S/M CEILING 48FT LINEAR LIGHT
F3 76	A-LIGHT G3-4FT-LVH-40-U-HE-F-T-D-Q		4000K	4/19	0-10V	HE TECH	S/M CEILING 4FT LINEAR LIGHT
G 47	HOLOPHANE HXPLL4825LASNDM40K		4000K	47	0-10V	HE TECH	4 FT CLASS 1 DIV 1 FIXTURE
EX 17	ISOLITE OWLEM BZ MB		4000K	17	NICAD BATTERY	PRISMATIC	WET LISTED EM LIGHT

SITE LED FIXTURE SCHEDULE

		LED MODULE					
TYPE	MANUFACTURER AND CATALOG NUMBER	TYPE	COLOR TEMP	WATTS	DRIVER	OPTIC/LENS	REMARKS
S1 248	LITHONIA (2)DSX1LEDP440K70CRIT5WMVOLTSPADDBXD		4000K	2/124	0-10V	FLAT CLEAR	DOUBLE PARKING LIT FIXTURE
	LITHONIA SSS23FT4GDM28ASDDBXD						POLE
S2 124	LITHONIA DSX1LEDP440K70CRIT3MMVOLTSPADDBXD		4000K	124	0-10V	FLAT CLEAR	TYPE 3 OPTIC PARKING LOT LIGHT
	LITHONIA SSS23FT4GDM19ASDDBXD						POLE
S3 124	LITHONIA DSX1LEDP440K70CRIT2MMVOLTSPADDBXD		4000K	124	0-10V	FLAT CLEAR	TYPE 2 OPTIC PARKING LOT LIGHT
	LITHONIA SSS23FT4GDM19ASDDBXD						POLE
X 33	LITHONIA WDGE2LEDP340K70CRIT3MDDBXD		4000K	33	0-10V	FLAT CLEAR	WEDGE FULL CUTOFF SCONCE
Y 15	LITHONIA WDGE1LEDP240K80CRIVWMVOLTDDBXD		4000K	15	0-10V	FLAT CLEAR	SMALL WEDGE FULLCUTOFF SCONCE
Z 14	LITHONIA EVO440/10ARMWDLSMVOLTZ1		4000K	14	0-10V	DIFFUSE	4" EXT. DOWNLIGHT

Skarphol / Frank Associates
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Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
(661) 334-2741
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These drawings, related specifications, ideas, designs and arrangements represented thereby are and shall remain the property of the Architect and no part thereof shall be copied, disclosed to others used in connection with any work or project other than the specific project which they have been prepared and developed without the written consent of the Architect. Visual contact with these drawings or specifications shall constitute conclusive acceptance of these restrictions.

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K202409814
Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
23754
5500 MING AVENUE, SUITE 201
BAKERSFIELD, CA 93309
(661) 831-7551
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	E002
DP	
PM	

KEEP APPROVED PLANS ON JOB SITE
KERN COUNTY
APPROVED
BUILDING INSPECTION
MAKE NO CHANGES WITHOUT APPROVAL
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 1 of 9)
Project Address:	**Date Prepared:** 2024-01-08T17:08:00-05:00

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD	04 Total Conditioned Floor Area (ft²)	24,095
02	Climate Zone	13	05 Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	0

● Commercial Industrial

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	24095	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	24095			

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05	06	07 Adjustments		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥ Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		13,141.2			=	13,141.2	≥ 13,105		=	13105	COMPLIES
Unconditioned					=		≥		=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How is Wattage determined	07 Total Number of Luminaires	08 Excluded per 140.6(a)3 / 170.2(e)2C	09 Design Watts	10 Field Inspector Pass	10 Field Inspector Fail
A	2X4 LED	No	NA	25	Mfr. Spec	48	No	1,200	☐	☐
B	COMPACT BAY LED	No	NA	70	Mfr. Spec	8	No	560	☐	☐
C	WRAP AROUND LED	No	NA	35	Mfr. Spec	4	No	140	☐	☐
D	4" DOWNLIGHT LED	No	NA	14	Mfr. Spec	30	No	420	☐	☐
F1	S/M CEILING 36FT LINEAR LED	No	NA	550	Mfr. Spec	10	No	5,500	☐	☐
F2	S/M CEILING 48FT LINEAR LED	No	NA	832	Mfr. Spec	6	No	4,992	☐	☐
F3	S/M CEILING 4FT LINEAR LED	No	NA	76	Mfr. Spec	2	No	152	☐	☐
G	4FT CLASS 1 DIV 1 FIXTURE	No	NA	47	Mfr. Spec	3	No	141	☐	☐
					Total Designed Watts: CONDITIONED SPACES			13,105		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03 Field Inspector Pass	03 Field Inspector Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		
Required >= 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

Area Level Controls

04 Area Description	05 Complete Building or Area Category Primary Function Area	06 Manual Area Controls 130.1(a) / 160.5(b)4A	07 Multi-Level Controls 130.1(b) / 160.5(b)4B	08 Shut-Off Controls 130.1(c) // 160.5(b)4C	09 Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	10 Secondary Daylighting 130.1(d) / 160.5(b)4D	11 Interlocked Systems 140.6(a)1/ 170.2(e)2A	12 Field Inspector Pass	12 Field Inspector Fail
WAREWHOUSE	General Commercial Industrial Work Area High Bay	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
RESTROOM	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Skylight shaded	NA: Skylight shaded	No	☐	☐
CONFERENCE ROOM	Conference, Multipurpose and Meeting Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
BREAK ROOM	Lounge	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
I.T. CLOSET	Electrical Mechancial Telephone Room	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
CLOSET	Storage - MF common areas	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
OFFICE	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
HALLWAY	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

CHECKOUT	Retail Merchandise Sales Wholesale Showroom	Readily Accessible	Dimmer	Occupancy Sensor	NA: Skylight shaded	NA: Skylight shaded	No	☐	☐
LAB	General Commercial Industrial Work Area Precision	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
PARKING GARAGE	Parking Garage - Parking Area & Ramps	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
						13			
						Plan Sheet Showing Daylit Zones:			

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft²)	04 Area (ft²)	05 Allowed Wattage (Watts)	06 Additional Allowance / Adjustment Area Category	06 Additional Allowance / Adjustment PAF
WAREWHOUSE	General Commercial Industrial Work Area High Bay	0.65	13,593	8,835.45	No	No
RESTROOM	Restroom	0.65	1,489	967.85	No	No
CONFERENCE ROOM	Conference, Multipurpose and Meeting Area	0.75	596	447	No	No
BREAK ROOM	Lounge	0.55	399	219.45	No	No
I.T. CLOSET	Electrical Mechancial Telephone Room	0.4	126	50.4	No	No
CLOSET	Storage - MF common areas	0.45	95	42.75	No	No
OFFICE	Office (>250 square feet)	0.6	1,339	803.4	No	No
HALLWAY	Corridor	0.4	141	56.4	No	No
CHECKOUT	Retail Merchandise Sales Wholesale Showroom	0.95	628	596.6	No	No

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

LAB	General Commercial Industrial Work Area Precision	0.85	614	521.9	No	No
PARKING GARAGE	Parking Garage - Parking Area & Ramps	0.1	6,000	600	No	No
		TOTALS:	25,020	13,141.2	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	WAREWHOUSE; RESTROOM; CONFERENCE ROOM; BREAK ROOM; I.T. CLOSET; CLOSET; OFFICE; HALLWAY. CHECKOUT; LAB; PARKING GARAGE
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	WAREWHOUSE; RESTROOM; CONFERENCE ROOM; BREAK ROOM; I.T. CLOSET; CLOSET; OFFICE; HALLWAY. CHECKOUT; LAB; PARKING GARAGE

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: John Maloney	Documentation Author Signature:
Company: JMPE	Signature Date: 01-08-2024
Address: 621 OLIVE STREET	CEA/ HERS Certification Identification (if applicable): E013083 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)564-1216

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: JOHN MALONEY	Responsible Designer Signature:
Company: JMPE	Date Signed: 01-08-2024
Address: 621 OLIVE STREET	License: E013083 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)564-1216

Skarphol / Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
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APPROVED
THE DRAWINGS MAY BE KEPT ON THE JOB SITE
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Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

KERN COUNTY APPROVED BUILDING INSPECTION
THE DRAWINGS MAY BE KEPT ON THE JOB SITE. NO CHANGES WITHOUT APPROVAL
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JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
2354
5900 MING AVENUE, SUITE 201
BAKERSFIELD, CA 93309
(661) 831-7851
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net

REGISTERED PROFESSIONAL ENGINEER
JOHN MALONEY
No. E013083
Exp. 06-30-2025
ELECTRICAL
STATE OF CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	E003
DP	
PM	

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	Report Page: (Page 1 of 8)
Project Address:	Date Prepared: 2024-01-08T16:06:21-05:00

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD	04	Total Illuminated Hardscape Area (ft²)	152247
02	Climate Zone	13			

03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):

☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐	LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas	

05 Occupancy Types within Project

• Commercial Industrial

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02		
☒	New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☐	Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	Report Page: (Page 2 of 8)
	Date Prepared: 2024-01-08T16:06:21-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv

01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
3,812.19	+	---	+	---	+	---	+	---	OR	---	=	3,812.19	≥	3,536	COMPLIES

Shielding Compliance (See Table G for Details)	N/A
Controls Compliance (See Table H for Details)	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	Report Page: (Page 3 of 8)
	Date Prepared: 2024-01-08T16:06:21-05:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01 Name or Item Tag	02 Complete Luminaire Description		03 Watts per luminaire[1,2]	04 How is Wattage determined	05 Total Number Luminaires[2]	06 Luminaire Status[3]	07 Excluded per 140.7(a) / 170.2(e)6A	08 Design Watts	09 Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	10 Field Inspector Pass	10 Field Inspector Fail
S1	DOUBLE PARKING LED	☐ Linear	248	Mfr. Spec	3	New	☐	744	NA: < 6200 lumens	☐	☐
S2	TYPE 3 OPTIC PARKING LOT LED	☐ Linear	124	Mfr. Spec	9	New	☐	1,116	NA: < 6200 lumens	☐	☐
S3	TYPE 2 OPTIC PARKING LOT LED	☐ Linear	124	Mfr. Spec	1	New	☐	124	NA: < 6200 lumens	☐	☐
B	COMPACT BAY LED	☐ Linear	88	Mfr. Spec	10	New	☐	880	NA: < 6200 lumens	☐	☐
X	WEDGE CUTOFF LED	☐ Linear	33	Mfr. Spec	14	New	☐	462	NA: < 6200 lumens	☐	☐
Z	4" EXT DOWNLIGHT LED	☐ Linear	14	Mfr. Spec	15	New	☐	210	NA: < 6200 lumens	☐	☐
							Total Design Watts:	3536			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	Report Page: (Page 4 of 8)
	Date Prepared: 2024-01-08T16:06:21-05:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10

[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
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	Date Prepared: 2024-01-08T16:06:21-05:00

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wirlng only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01 Area Description	02 Shut-Off 130.2(c)1 / 160.5(c)	03 Auto-Schedule 130.2(c)2 / 160.5(c)	04 Motion Sensor 130.2(c)3 / 160.5(c)	05 Field Inspector Pass	05 Field Inspector Fail
PARKING LOT: "S1"	Astronomical Timer	Provided	NA: Industrial Sites Lighting	☐	☐
PARKING LOT: "S2"	Astronomical Timer	Provided	NA: Industrial Sites Lighting	☐	☐
PARKING LOT: "S3"	Astronomical Timer	Provided	NA: Industrial Sites Lighting	☐	☐
PARKING LOT: "B"	Astronomical Timer	Provided	Provided	☐	☐
PARKING LOT: "X"	Astronomical Timer	Provided	NA: Facade, etc. <=24 ft	☐	☐
PARKING LOT: "Z"	Astronomical Timer	Provided	NA: Facade, etc. <=24 ft	☐	☐

[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	Report Page: (Page 6 of 8)
	Date Prepared: 2024-01-08T16:06:21-05:00

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
PARKING LOT	152247	0.021	3197.19	1825	0.2	365	3562.19

Initial Wattage Allowance for Entire Site (Watts):	250
Instances of Initial Wattage Allowance (LZ 0 only)[1]	
Total General Hardscape Allowance (Watts):	3812.19

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	Report Page: (Page 7 of 8)
	Date Prepared: 2024-01-08T16:06:21-05:00

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	PARKING LOT: "S1"; PARKING LOT: "S2"; PARKING LOT: "S3"; PARKING LOT: "B"; PARKING LOT: "X"; PARKING LOT: "Z"

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	Report Page: (Page 8 of 8)
Project Address:	Date Prepared: 2024-01-08T16:06:21-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: John Maloney	Documentation Author Signature: John
Company: JMPE	Signature Date: 01-08-2024
Address: 621 OLIVE STREET	CEA/ HERS Certification Identification (if applicable): EO13053 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)564-9216

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: JOHN MALONEY	Responsible Designer Signature: John
Company: JMPE	Date Signed: 01-08-2024
Address: 621 OLIVE STREET	License: EO13053 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)564-9216

SFA
Skarphol / Frank
Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
(661) 394-2741
skarpholfrank.com

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Dennis McNamara

KERN COUNTY
APPROVED
BUILDING INSPECTION
KEEP APPROVED PLANS ON JOB
MAKE NO CHANGES WITHOUT APPROVAL

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JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
23754
5500 MING AVENUE,
SUITE 201
BAKERSFIELD, CA 93309
(661) 835-7851
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net

REGISTERED PROFESSIONAL ENGINEER
JOHN P. MALONEY
No. E013053
EXP. 06/30/2025
ELECTRICAL
STATE OF CALIFORNIA

A NEW BUILDING FOR:

KERN COUNTY
PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	
DP	E004
PM	

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii	
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 1 of 5)
Project Address:	**Date Prepared:** 2024-01-08T17:26:13-05:00

A. GENERAL INFORMATION

01	Project Location (city)	BAKERSFIELD	02	Climate Zone	13
			03	Occupancy Types Within Project:	Commercial Industrial

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
E-100	New electrical service equipment and meter	50	☒	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 2 of 5)
	Date Prepared: 2024-01-08T17:26:13-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND	Yes	AND	Yes	AND	Yes		COMPLIES with Exceptional Conditions

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table B indicates the project is exempt from 130.5(a) Service Electrical Metering requirements because the utility company has provided the project a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 3 of 5)
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G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
E-100					
Lighting including exit, egress and exterior	not required			☐	☐

[1] NOTES: If "Other" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.

[2] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2PiI/ 180.2(b)4Bviic.

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
E-100	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	E001	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 4 of 5)
	Date Prepared: 2024-01-08T17:26:13-05:00

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(d)/ 160.6(d).. Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	07	
Room name or Description	Location/ Type of Controlled Receptacles[1]	Shut-Off Controls	Demand Responsive Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
						Pass	Fail
OPEN OFFICE	Within 6ft of uncontrolled receptacle	Occupancy Sensor	Included w capabilities per 110.12(e)	☒	E211 AND E212	☐	☐
CONFERENCE ROOM	Within 6ft of uncontrolled receptacle	Occupancy Sensor	Included w capabilities per 110.12(e)	☒	E212	☐	☐

** NOTES: If "Other" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements. .

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: KERN COUNTY SPECIAL WASTE FACILITY	**Report Page:** (Page 5 of 5)
Project Address:	**Date Prepared:** 2024-01-08T17:26:13-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: John Maloney	Documentation Author Signature:
Company: JMPE	Signature Date: 01-08-2024
Address: 621 OLIVE STREET	CEA/ HERS Certification Identification (if applicable): E013088 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)564-4216

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: JOHN MALONEY	Responsible Designer Signature:
Company: JMPE	Date Signed: 01-08-2024
Address: 621 OLIVE STREET	License: E013088 / 06-25
City/State/Zip: SANTA BARBARA, CA 93101	Phone: (805)564-4216

Skarphol/Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
(661) 394-2741
skarpholfrank.com

These drawings, related specifications, ideas, designs and arrangements represented thereby are and shall remain the property of the Architect and no part thereof shall be copied, disclosed to others used in connection with any work or project other than the specific project which they have been prepared and developed without the written consent of the Architect. Visual contact with these drawings or specifications shall constitute conclusive acceptance of these restrictions.

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PER DNA REQUIREMENTS ONLY
SEE MEMO
2/2/2026, 3:46:20 PM
K202409814
Dennis McNamara

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

KEEP APPROVED PLANS ON JOB
KERN COUNTY
APPROVED
BUILDING INSPECTION
MAKE NO CHANGES WITHOUT APPROVAL
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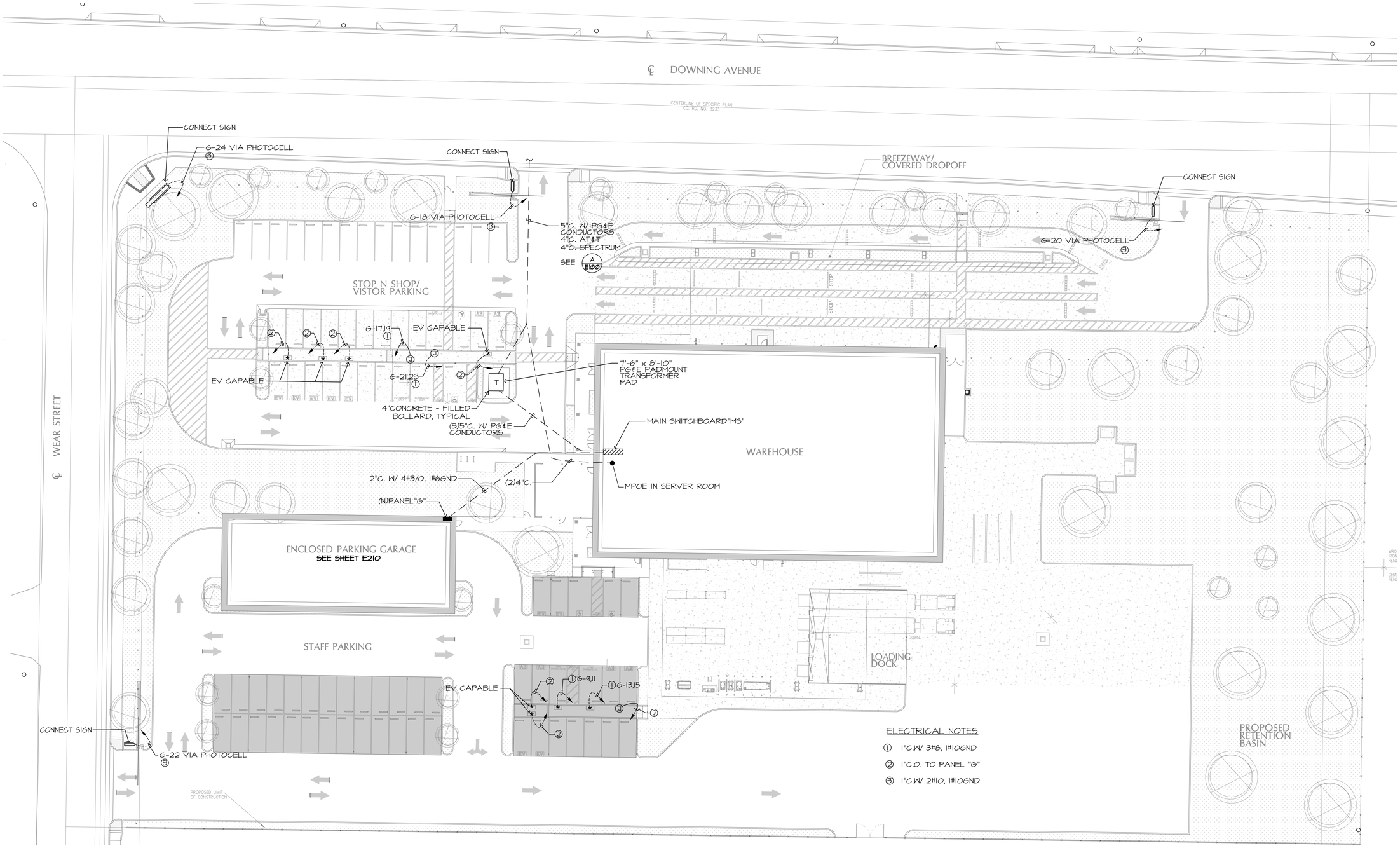
JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
2354
5500 MING AVENUE,
SUITE 251
BAKERSFIELD, CA 93309
(661) 831-7551
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net

JOHN MALONEY
No. E013083
EXP. 06/30/2025
ELECTRICAL
STATE OF CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	
DP	E005
PM	

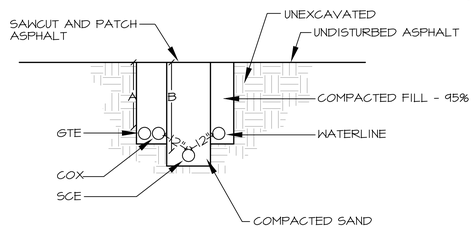


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ELECTRICAL SITE PLAN

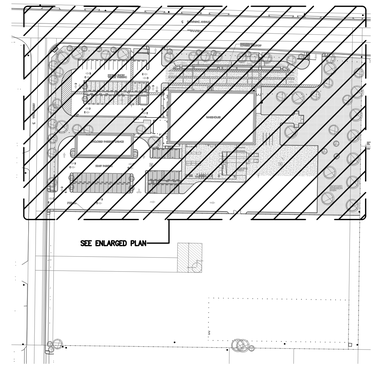
SCALE: 1"=20'-0"

Building electrical under drive areas min 24" conduit depth.



DEPTH CHART	A	B
UTILITY FEEDER	24"	30"
OWNER FEEDER	18"	18"

JOINT TRENCH DETAIL Ⓐ



N

KEY PLAN N.S.

Skarphol/Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
(661) 394-2741
skarpholfrank.com

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APPROVED PER ENVIRONMENTAL HEALTH SEE MEMO

2/2/2026, 3:46:20 PM
K202409814
Dennis McNamara

KERN COUNTY APPROVED BUILDING INSPECTION
KEEP APPROVED PLANS ON JOB
MAKE NO CHANGES WITHOUT APPROVAL
ROSSITERN
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A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

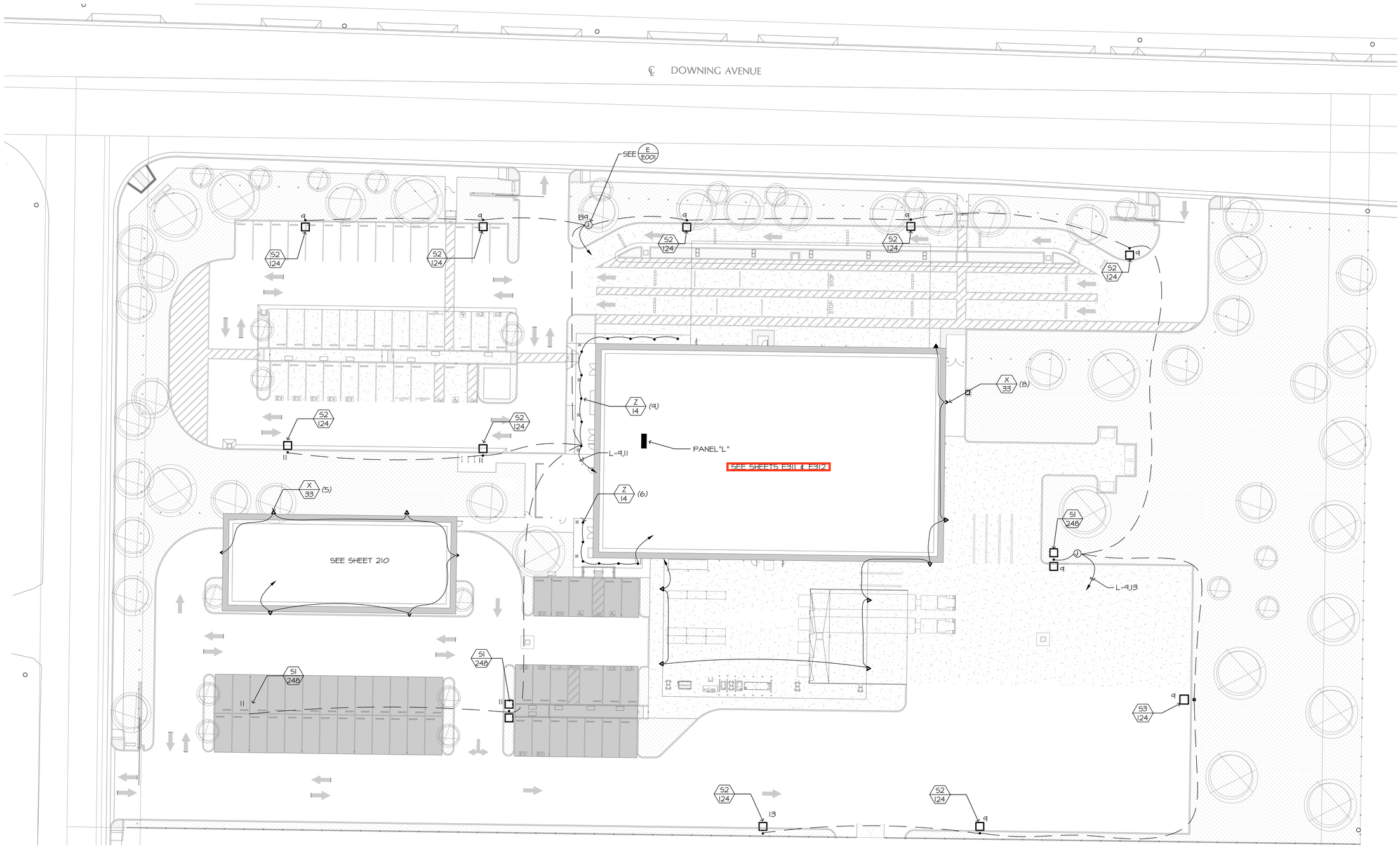
SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
23754
5000 MING AVENUE,
SUITE 251
BAKERSFIELD, CA 93309
(661) 831-7855
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net
REGISTERED PROFESSIONAL ENGINEER JOHN MALONEY No. E013083 EXP. 12/31/2027 ELECTRICAL STATE OF CALIFORNIA

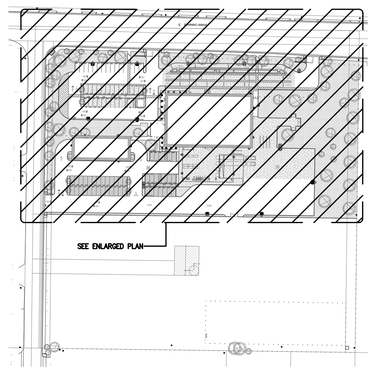
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N

SITE LIGHTING PLAN

SCALE: 1"=20'-0"



N

KEY PLAN N.S.

KERN COUNTY
APPROVED
BUILDING INSPECTION
KEEP APPROVED PLANS ON JOB
MAKE NO CHANGES WITHOUT APPROVAL
ROSSITERN
12/17/2025, 1:18:31 PM

APPROVED
PER DRAWING NOTE
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2/2/2026, 3:46:20 PM
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Skarphol / Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
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A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

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EXP. 6/30/2027
ELECTRICAL
STATE OF CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION

JOB	E101
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