NOTICE TO CONTRACTORS BIDDING THIS PROJECT

The bidder is advised that there have been changes made to the plans and specifications for the following project:

Project Title: Building and Site Improvements at 6741 Downing Avenue, Bakersfield, CA

Contract No: 26016

Bid Opening Date: September 10, 2026

ADDENDUM No. 9

1. CHANGES TO SPECIFICATIONS

a. Section "08 9516 Pressure Relief Panels" has been added to the Technical Specifications. The added Section "08 9516 Pressure Relief Panels" is attached to this Addendum on pages 3-5. The Section has been added to provide additional information for the pressure relief panels included in the scope of work.

b. Section "2.3 Knocked-Down Corridor Lockers" on pages 10 5113 - 2 to 10 5113 – 4 of the Technical Specifications has been revised. The revised Section "2.3 Knocked-Down Corridor Lockers" is attached to this Addendum on pages 6-7. The Subsection has been revised to add LockersMFG to the list of available manufacturers that satisfy the "Buy America" requirement for this project.

c. Item #5 of subsection I of Section "2.1 Materials" on pages 32 8400 – 11 to 32 8400 – 17 of the Technical Specifications has been revised. The revised Section "2.1 Materials" is attached to this Addendum on pages 8-12. The item has been revised to clarify the specification of the master valve box.

d. Item #3 of subsection B of Section "2.6 Root Control Barriers" on page 32 9300 – 8 of the Technical Specifications has been revised. The revised subsection B of Section "2.6 Root Control Barriers" is attached to this Addendum on page 13. The item has been revised to modify the burial depth of root barriers adjacent to a curb.

2. CHANGES TO PLANS

a. Sheet C2A has been replaced with sheet C2B. Additional pole mounted light fixture has been removed. The revised sheet is attached to this addendum.

b. Sheet C5A has been replaced with sheet C5B. The irrigation POC has been revised to a 1" size. The revised sheet is attached to this addendum.

c. Sheet A100B has been replaced with sheet A100C. Dock leveler, restraint, and bumper specifications have been added. Garbage and latex bins have been clarified to be provided by owner. In-ground scale specification has been provided. The revised sheet is attached to this addendum.

d. Sheet A212B has been replaced with sheet A212C. Dock leveler, restraint, and bumper specifications have been revised. The revised sheet is attached to this addendum.

e. Sheet A214B has been replaced with sheet A214C. Additional glazing information has been added for clarification. The revised sheet is attached to this addendum.

f. Sheets A811B & A812B have been replaced with sheets A811C & A812C. The FRP manufacturer has been corrected. The revised sheets are attached to this addendum.

g. Sheet S2.1 has been replaced with sheet S2.1A. The foundation plan has been revised to include information for the dock leveler pit. The revised sheet is attached to this addendum.

h. Sheet S3.2 has been replaced with sheet S3.2A. Additional details have been provided for the dock leveler pit. The revised sheet is attached to this addendum.

i. Sheet E211A has been replaced with sheet E211B. Conduit stub out has been added to Panel "L" for connection to PV system. The revised sheet is attached to this addendum.

j. Sheets LI.00A & LI.01A have been replaced with sheet LI.00B & LI.01B. The irrigation drop emitter and modular controller specifications have been revised. The revised sheets are attached to this addendum.

Joshua R. Champlin, Director
Public Works Department

Please sign one copy of this addendum and include it with your bid to the Public Works Department as provided in the Notice to Contractors. Failure to submit, with your bid, a signed copy of each and every addendum for a project will be grounds for finding the bid unresponsive.

Contractor

Signature

Date

SECTION 08 9516 – PRESSURE RELIEF PANELS

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes all pressure relief panels, frames, and attachment hardware necessary to complete the work as indicated on the drawings, and as described in the specifications.

1.2 SYSTEM DESCRIPTION

A. Pressure relief panel system shall be designed and shop calibrated to release at a static pressure differential between interior and exterior of 20 lb/ft2 ±10%.

B. The panels and structure supports shall be designed to withstand a maximum wind load of 30 lb/ft2.

C. Each panel shall be equipped with a restraint/hold open mechanism designed to cushion the panel's deceleration as the full open position is reached; and to minimize the development of a vacuum in the enclosure when the heated gases cool.

D. Panels shall have been tested by Factory Mutual or CANMET (Canada Centre for Mineral and Energy Technology). Dynamic test data shall demonstrate that the panel release, restraint, and hold open mechanisms performed properly, the panels were not structurally damaged, and the panels could be reset. In addition, the test data shall include all pertinent operating conditions under which the test was conducted including static release pressure and the additional pressure rise within the chamber.

E. Systems design shall allow for non-destructive testing in the field to verify that the panel's release at the specified static design pressure.

F. The panel pressure relief system shall allow for manual (or semi-automatic) retrieval after release.

G. The weight of the fabricated panel shall not exceed 2.5 lb/ft2 (12.2 kg/m2).

1.3 REFERENCES

A. Aluminum Association, Section 1, Specifications for Aluminum Structures.

B. Aama-603 Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions.

C. ASTM-D35 Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Self-supporting Plastics in Horizontal Position.

D. ASTM-E-85 Standard Test Method for Surface Burning Characteristics of Building Materials.

E. NFPA 68 Guide for Venting of Deflagrations, 2007 Edition.

F. Factory Mutual Engineering Corporation, 1-44, Damage-Limiting Construction, July 1991.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product

1. The manufacturer shall submit complete shop drawings for approval prior to fabrication. Drawings shall show product location, fabrication details, specified static release loads, and static release forces.
2. Installation instructions shall be submitted with the shop drawings.

B. Shop Drawings:

1. Include plans, elevations, sections, and attachment details.
2. Include details of equipment assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
3. Drawings shall show product location, fabrication details, specified static release loads, and static release forces

C. Samples: For each exposed product and for each color and texture specified.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance data.

B. Operation and maintenance data.

1.6 QUALITY ASSURANCE

A. The panel system shall be produced by a manufacturer regularly engaged in manufacturing of similar products and with a verifiable history of successful product applications.

1.7 WARRANTY

A. Manufacturer's Warranty: Manufacturer and Installer agree to repair and replace components of panels that fail(s) in materials or workmanship within specified warranty period.

1. Warranty Period: two year(s) from date of Substantial Completion.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:

1. Explovent pressure relief panel systems shall be manufactured by Conspec Systems, Inc., Cranford, NJ; or C/S Construction Specialties Company, Mississauga, Ontario.

2.2 PERFORMANCE REQUIREMENTS

A. Each panel shall be shop calibrated and tested for proper operation and for release at the design loads specified on the approved drawing.

B. All panels shall be permanently marked with the design release pressure and the maximum static release force.

C. Manufacturer shall have complete in-house finishing capabilities

2.3 MATERIALS

A. Panels shall be .63" thick translucent solar grade polycarbonate extruded structured sheet. Material shall be classified as CC-2 per ASTM-D635. Color to be clear.

B. Panel framing components shall be .063" 6063-T52 alloy extruded aluminum.

C. All fasteners shall be aluminum or stainless steel.

D. Exterior panel gaskets shall be a pile fiber type with a continuous polypropylene center fin.

2.4 FABRICATION

A. Fabricate the pressure relief panels model ERP-T-PC or ERP-B-PC to the sizes shown on the approved shop drawings.

B. Panels shall be top or bottom hinged as detailed.

C. All panels, frames, and release mechanisms shall be factory assembled in units and shipped to the job site.

D. Head, sill, jamb, and mullion frame members to be one piece extruded aluminum structural members as detailed, and to have integral caulking slots. Mullions to be two-piece interlocking assemblies, which allow for expansion and contraction, and for individual panel removability.

E. All panels shall have exterior pile gaskets and interior compression (or magnet) gaskets to minimize air leakage and water entrainment when closed.

F. The release mechanism shall be mounted to the panel frame, and shall be shop calibrated and tested for the design loads specified on approved drawings.

2.5 FACTORY FINISHING

A. To be 100% Fluropolymer Resin Powder Coat – Finished to meet or exceed all AAMA 2605-5 criteria.

B. Color to be selected from manufacturers standard color selection

PART 3 – EXECUTION

3.1 INSTALLATION

A. The vents must be installed in accordance with shop drawings, the installation instructions, and any special instructions on the shop drawing.

3.2 DEMONSTRATION

A. Train Owner's maintenance personnel to adjust, operate, and maintain units.

END OF SECTION 08 9516

2.3 KNOCKED-DOWN CORRIDOR LOCKERS

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work, include, but are not limited to, the following:

1. Art Metal Products.
2. List Industries Inc.
3. LockersMFG
4. Lyon LLC.
5. Penco Products, Inc.
6. Republic Storage Systems, LLC.

B. Configuration and Dimensions:

1. Overall Locker Height: 78 inches, measured from finished floor to top of locker.
2. Locker Configuration: Provide two (2) locker compartments per vertical column, arranged one above the other.

C. Doors: One piece; fabricated from 0.060-inch nominal-thickness steel sheet; formed into channel shape with double bend at vertical edges and with right-angle single bend at horizontal edges.

1. Doors less than 12 inches wide may be fabricated from 0.048-inch nominal-thickness steel sheet.
2. Doors for box lockers less than 15 inches wide may be fabricated from 0.048-inch nominal-thickness steel sheet.
3. Reinforcement: Manufacturer's standard reinforcing angles, channels, or stiffeners for doors more than 15 inches wide; welded to inner face of doors.
4. Stiffeners: Manufacturer's standard full-height stiffener fabricated from 0.048-inch nominal-thickness steel sheet; welded to inner face of doors.
5. Door Style: Vented panel as follows:
    a. Louvered Vents: No fewer than three louver openings at top and bottom for double-tier lockers.

D. Body: Assembled by riveting or bolting body components together. Fabricate from unperforated steel sheet with thicknesses as follows:

1. Tops, Bottoms, and Intermediate Dividers: 0.024-inch nominal thickness, with single bend at sides.
2. Backs and Sides: 0.024-inch nominal thickness, with full-height, double-flanged connections.
3. Shelves: 0.024-inch nominal thickness, with double bend at front and single bend at sides and back.

E. Frames: Channel formed; fabricated from 0.060-inch nominal-thickness steel sheet; lapped and factory welded at corners; with top and bottom main frames factory welded into vertical main frames. Form continuous, integral, full-height door strikes on vertical main frames.

1. Cross Frames between Tiers: Channel formed and fabricated from same material as main frames; welded to vertical main frames.

F. Hinges: Welded to door and attached to door frame with no fewer than two factory-installed rivets per hinge that are completely concealed and tamper resistant when door is closed; fabricated to swing 180 degrees.

1. Hinges: Manufacturer's standard, steel, continuous or knuckle type.

G. Recessed Door Handle and Latch: Stainless steel cup with integral door pull, recessed so locking device does not protrude beyond door face; pry and vandal resistant.

1. Single-Point Latching: Nonmoving latch hook with steel padlock loop that projects through recessed cup and is finished to match metal locker body.

    a. Latch Hook: Equip each door with one latch hook, fabricated from 0.105-inch nominal-thickness steel sheet; welded midway up full-height door strike; with resilient silencer.

H. Locks: Combination padlocks.

I. Coat Rods: Manufacturer’s standard.

J. Legs: 6 inches high; formed by extending vertical frame members, or fabricated from 0.075-inch nominal-thickness steel sheet; welded to bottom of locker.

    1. Closed Front and End Bases: Fabricated from 0.036-inch nominal-thickness steel sheet.

K. Continuous Sloping Tops: Fabricated from manufacturer's standard thickness, but not less than 0.036-inch nominal-thickness steel sheet.

    1. Closures: Vertical -end type.

L. Materials:

    1. Cold-Rolled Steel Sheet: ASTM A1008/A1008M, Commercial Steel (CS), Type B, suitable for exposed applications.

M. Finish: Baked enamel or powder coat.

    1. Color: As selected by Architect from manufacturer’s full range.

2.1 MATERIALS

A. General: Use only new materials of brands and types noted on drawings, specified herein, or approved equals.

B. PVC Pressure Main Line Pipe and Fittings: (Use purple pipe for irrigation systems carrying recycled water and white pipe for irrigation systems carrying domestic water)

1. Pressure main line piping for sizes two inches (2") and larger shall be PVC Class 315.

2. Class 315 PVC pipe shall be made from an NSF approved Type I, Grade I, PVC compound conforming to ASTM resin specification D1784. Pipe must meet requirements as set forth in Federal Specification PS22-70, with an appropriate standard dimension (S.D.R.) (Solvent-weld Pipe).

3. Pressure main line piping for sizes one and one-half inches (1-1/2") and smaller shall be Schedule 40 PVC with solvent welded joints.

4. Schedule 40 PVC pipe shall be made from NSF approved Type I, Grade I PVC compound conforming to ASTM resin specification D1785. Pipe must meet requirements as set forth in Federal Specification PS-21-70.

5. PVC solvent-weld fittings shall be Schedule 40 PVC, 1-2, II-I NSF approved conforming to ASTM test procedure D2466.

6. Solvent cement and primer for PVC solvent-weld pipe and fittings shall be of type and installation methods prescribed by the manufacturer.

7. PVC pipe must bear the following markings:

a. Manufacturer's name

b. Nominal pipe size

c. Schedule or class

d. Pressure rating in P.S.I.

e. NSF (National Sanitation Foundation) approval

f. Date of extrusion

8. Fittings shall bear the manufacturer's name or trademark, material designation, size, applicable I.P.S. schedule and NSF seal of approval.

C. PVC Non-Pressure Lateral Line Pipe and Fittings: (Use purple colored pipe for irrigation system carrying recycled water and white pipe for irrigation system carrying domestic water)

1. Non-pressure buried lateral line piping shall be Schedule 40 PVC with solvent-weld joints when installed in on-site planting areas and PVC when installed within on-site maintained City Right-of-Way planting areas.

2. Non-pressure lateral line piping installed under paved areas shall be PVC with solvent welded joints.

3. Pipe shall be made from NSF approved, Type I, Grade II PVC compound conforming to ASTM resin specification D1784. Pipe must meet requirements set forth in Federal Specification PS-22-70 with an appropriate standard dimension ratio.

4. Except as noted in paragraphs 1, 2, and 3 of this section (2.01C), all requirements for non-pressure lateral line pipe and fittings shall be the same as for solvent-weld pressure main line pipe and fittings as set forth in section 2.01B of these Specifications.

D. Brass Pipe and Fittings:

1. Where indicated on the Drawings, use red brass threaded pipe conforming to Federal Specification #WW-P-351.

2. Fittings shall be red brass conforming to Federal Specification #WW-P-460.

E. Copper Pipe and Fittings:

1. Pipe: Type K, hard tempered
2. Fittings: wrought copper, solder joint type
3. Joints shall be soldered with silver solder, 45% silver, 15% copper, 16% zinc, 24% cadmium, solidus at 1125o F. and liquidus at 1145o F.

F. Galvanized Pipe and Fittings:

1. Where indicated on the Drawings, use galvanized steel pipe ASA Schedule 40 mild steel threaded pipe.
2. Fittings shall be medium galvanized threaded beaded malleable iron. Galvanized couplings may be merchant coupling.
3. Galvanized pipe and fittings installed below grade shall be painted with two (2) coats of Koppers #50 bitumastic.

G. Ball Valves / Butterfly Valves:

1. Ball valves 3" and smaller shall meet the following requirements:
   a. Manual ball valves shall be PVC w/EPDM O-Rings and socket end connectors.
   b. Manual ball valves shall have thermoplastic gear driven operating nut rotates 360° to achieve a 90° turn of the ball.
   c. Manual ball valves shall be Lasco Slo-Close full block true union ball valves
2. Ball valves shall be installed per installation details.

H. Quick Coupling Valve:

1. Quick coupling valves shall have a brass, two-piece body designed for working pressure of 150 P.S.I.
2. Quick coupling valve shall be operable with a quick coupler key. Key size and type shall be as shown on the Drawings.

I. Master Valve:

1. Pressure regulating master valves shall be Superior 3100 series 3100xxxPRS with Superior Solenoid for sizes 1"-3" where xxx equals valve size.
2. Master valve shall be used for potable water systems and shall have 24 volt normally open (energize to close) solenoid operation.
3. Assemblies two inches (2") and larger shall be flanged with stainless steel nuts and bolts. Assemblies one and one-half inches (1-1/2") and smaller shall be threaded.
4. Ball valves one inch to three inches (1" to 3") shall be Lasco Slo-Close full block true union PVC ball valves.
5. <u>Install entire assembly within a jumbo rectangular valve box and plastic bolt-down cover as follows:</u>

Assembly Size	Model No.	Inside Vault Size (LxWxD)
a.	1-1/2" 2448	51" x 27" x 30"
b.	2" 2448	51" x 27" x 30"
c.	2-1/2" 2448	51" x 27" x 30"
d.	3" 2460	63" x 27" x 30"

J. Reverse Pressure Backflow Prevention Device:

1. Reverse Pressure Backflow Prevention Device shall be Febco 825Y, size as shown on the Drawings.
2. Backflow Prevention Device shall be installed with a Polar Barrier Blanket.

K. Check Valve:

1. Swing check valves two inches (2”) and smaller shall be of high impact PVC Type II material with an EDPM swing gate, no internal metal parts and connect with both threaded and slip-fit models. Swing check valves shall be model KSC series as manufactured by King Bros. or approved equal.
2. Anti-drain valves shall be of heavy duty virgin PVC construction with F.I.P. thread inlet and outlet. Internal parts shall be stainless steel and neoprene. Anti-drain valve shall be field adjustable against draw out from four (4) to 32 feet of head. Anti-drain valves shall be Hunter HCV or approved equal.

L. Control Wiring:

1. Wire requirements are as follows:
   a. Unless otherwise noted, connections between an irrigation controller and its corresponding electric control valves shall be made with direct burial copper wire AWG-U.F. 600 volt.
   b. Master valve control and common wires shall be installed within 1-1/2 schedule 40 PVC conduit along with flow sensor cable. Conduit shall be gray in color Wires shall be a different color than the control, common and spare wires used for the associated irrigation controller.
   c. When more than one (1) controller is installed at the same location, pilot wires shall be a different color wire for each irrigation controller. Common wires shall be white with a different color stripe for each irrigation controller. Spare wires shall be a different color than control and common wires.
   d. Install in accordance with valve manufacturer's specifications and wire chart. In no case shall wire size be less than #14 AWG. Common wire size shall be no less than #12 AWG.
2. Wiring shall occupy the same trench and shall be installed along the same route as pressure supply or lateral lines wherever possible.
3. When more than one (1) wire is placed in a trench, the wiring shall be taped together at intervals of ten (10) feet.
4. An expansion curl shall be provided within three (3) feet of each wire connection. Expansion curl shall be of sufficient length at each splice connection at each electric control valve, so that in case of repair, the valve bonnet may be brought to the surface without disconnecting the control wires. Control wires shall be laid loosely in trench without stress or stretching wire conductors.
5. Control wire connection splices shall be made with 3M "DBY" direct bury splice kits or approved equal. Make only one (1) splice with each splice kit.
6. Field splices between the irrigation controller and electric control valves will not be allowed without prior approval of the Owner's Authorized Representative.
7. Two (2) continuous spare control wires shall be installed with the mainline from the controller enclosure to the ends of the mainline in every direction. A common wire shall be extended to the location where the spare wires terminate. Terminate spare wires within separate standard rectangular box or within a control valve box as designated on the drawings.

M. Weather Based Irrigation Controller Assembly:

1. Weather based irrigation controller(s) shall be of size and type shown on the Drawings.
   a. Manual Operation features shall include:
      1) Controller shall be capable of allowing user to manually start stations for supplemental irrigation, for system testing and for system troubleshooting and repair.
      2) Controller shall be capable of manual operation of individual valve stations or all stations from one (1) to nine (9) hours and 59-minutes in one (1) minute increments.

N. Electric Control Valve:

1. Electric control valves shall be the same size and type shown on the Drawings.
2. Electrical control valves shall have a manual flow adjustment.
3. Provide and install one (1) control valve box for each electric control valve.

O. Valve Box:

1. Valve boxes shall be black in color. Purple lids and purple tags to be provided for non-potable systems.
2. Une ten-inch by ten and one-quarter inch (10" x 10-1/4") round box for all gate valves, Carson Industries #910-12B with black bolt-down cover or approved equal. Extension sleeve shall be PVC with minimum size of six inches (6”).
3. Use nine and one-half inch by sixteen-inch by eleven-inch (9-1/2" x 16" x 11") rectangular box for all electric control valves and ball valves, Carson Industries #1419-12B with black bolt-down cover or approved equal.
4. Use ten-inch (10") diameter x ten and one-quarter inch (10-1/4") deep round plastic valve box for all quick coupling valves, Carson Industries #910-12B with black bolt-down cover or approved equal.

P. Sprinkler Head:

1. Sprinkler heads shall be of the same size, type, and deliver the same rate of precipitation with the diameter (or radius) of throw, pressure, and discharge as shown on the Drawings and/or as specified herein.
2. Spray heads shall have a screw adjustment.
3. Riser units shall be fabricated in accordance with the installation details.
4. Riser nipples for all sprinkler heads shall be the same size as the riser opening in the sprinkler body.
5. Sprinkler heads of the same type shall be by the same manufacturer.

Q. Dripline:

1. Dripline heads shall be of the same size, type, and deliver the same rate of precipitation with the diameter (or radius) of throw, pressure, and discharge as shown on the Drawings and/or as specified herein.
2. Install air relief valve at highest point.
3. Fittings shall be utilized in accordance with the installation details.
4. Install 6” soil staples every 3’-5’ of tubing, plus two on each tee, elbow, or cross. Dripline of the same type shall be by the same manufacturer.

R. Identification Tag:

1. I.D. tags for electric control valves shall be manufactured from Polyurethane Behr Desopan. Use Christy's standard tag hot-stamped with black letters on yellow background. Tags for electric control valves shall be numbered to match programming shown on the Drawings. Provide one (1) tag for each electric control valve.
2. I.D. tags for quick coupling valves shall be manufactured from Polyurethane Behr Desopan.
3. Special order tags from T. Christy Enterprises, 655 East Ball Road, Anaheim, CA 92805. Phone (714) 507-3300 and Fax (714) 507-3310.

S. Flow sensor and flow transmitter.

1. An irrigation main-line flow sensor shall be installed in accordance with Drawings and manufacturer’s installation instructions. See Drawings for location. Contractor shall be responsible for the installation, hook-ups, materials, components, connections, etc., of the flow sensors, flow transmitter and pulse decoders for the complete automatic operation of the system.

2. Install as recommended by the manufacturer and as detailed.

3. The flow sensor cable shall be a two-conductor of ICEA class B, 16 AWG, 7 strand, conforming to ASTM B-3 and B-8, aluminum shielded with drain wire, and shall have a jacket of 0.050 in. thick sunlight- and moisture-resistant PVC by Paige Electric Corp. (Product #P7162D).

4. Flow sensor cable may be extended to a maximum distance of 2000 ft. from the location of the assembly to which it is connected. Wire shall be installed in a one and one-half inch (1-1/2") UL-listed Schedule 40 PVC conduit gray in color.

5. Provide a separate flow sensor cable from each flow sensor to its respective designated controller. Run flow sensor cables within one and one-half inch (1-1/2") PVC Schedule 40 conduit. Refer to sensor cable, communication cable conduit, and communication cable pull boxes specified elsewhere for additional information.

6. Control and common wires for the master valve immediately upstream from flow sensor shall be installed with different color wires.

7. Splices shall be performed in a 3M "DBY" direct bury splice kit. Make only one (1) splice with each connector.

T. Flow Sensor Cable Conduit:

1. As a part of this Contract, the Contractor shall provide and install a flow sensor cable conduit that will be used for the future installation of communication cable(s).

2. Flow sensor cable conduit shall be Schedule 40 PVC with solvent welded joints and unless otherwise noted on the Drawings, shall be one and one-half inch (1-1/2") in size, with one-quarter inch (1/4") nylon pull rope installed within entire length of conduit. Flow sensor cable conduit shall be gray in color.

3. Except as noted in paragraph number two (above) of this section, all requirements for flow sensor cable conduit and fittings shall be the same as for solvent-weld pressure main line pipe and fittings as set forth in Section 2.1 B of these Specifications.

4. Sweep ells shall be fabricated standard electrical type PVC schedule 40 long sweep elbows. Cap sweep ell with tri-plug with the ring for securing nylon pull rope.

5. The flow sensor cable conduit shall be installed where indicated on the Drawings and shall be routed, wherever possible, with the irrigation pressure main line piping. Provide 24-inch minimum cover over all flow sensor cable conduits. Provide six-inch (6") minimum separation between communication cable conduit and irrigation pressure main line piping.

6. Pull boxes shall be located a minimum of two hundred (200) feet on center, at each irrigation controller location, and at each change of direction. Use 11-3/4" x 17" x 11" rectangular box for all pull boxes, Carson Industries #1419-12B with black bolt-down cover or approved equal. Cover shall be marked "Irrigation Control Cable." Refer to the Drawings for additional information.

U. Miscellaneous Irrigation Equipment:

1. Refer to the Drawings for sizes and types of miscellaneous irrigation equipment.

2. Miscellaneous irrigation equipment shall be as specified or approved equal.

2.6 ROOT CONTROL BARRIERS

A. Root Control Barriers: Century Products Root Barrier Rolls;

www.centuryrootbarrier.com; or approved equal.

1. Refer to root control barrier detail in Landscape Drawings for additional information on specific tree types not to receive root control barrier.

B. City Maintained Root Control Barriers:

1. Shall be provided as indicated on the plans, as required in the local governing agency (ies) tree planting guideline, and as specified herein.
2. Root control barriers shall be constructed of injection molded copolymer polypropylene with 50 percent post-consumer recycled plastic and UV inhibitors as manufactured by Deep Root Products or approved equal.
3. Barriers shall be a minimum of 18-inch depth and .08-inch thick when installed adjacent to sidewalk, 18-inch depth and .08-inch thick when installed adjacent to curb. Barriers shall be linear, according to the approved plan and per local governing agency (ies) standard details.
4. Root control barriers shall be linear.
5. Refer to Root Control Barrier detail in landscape drawings for additional information on specific tree types not to receive root control barrier.

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

℄ DOWNING AVE.

℄ WEAR STREET

CENTERLINE OF DOWNING AVENUE
CO. RD. No. 3399

CENTERLINE OF SPECIFIC PLAN
CO. RD. No. 3233

PUBLIC ROAD RIGHT-OF-WAY AS SHOWN ON SALES MAP OF THE LANDS KERN COUNTY LAND COMPANY, SECT. 21, T.29S., R.27E., MDM., KERN COUNTY, CALIFORNIA, FILED JULY 15, 1891, IN THE OFFICE OF THE KERN COUNTY RECORDER.

SPECIFIC PLAN COUNTY ROAD No. 3233 RIGHT-OF-WAY PER COUNTY OF KERN PUBLIC WORKS DEPT. OFFICE OF THE COUNTY SURVEYOR MAP TITLED "SPECIAL WASTE FACILITY" IN FILED BOOK: KCSFB 1185, PAGE 19-20, COUNTY RECORDS

EXISTING RIGHT-OF-WAY
CO. RD. No. 3399

PROPOSED R/W

SEE APPROVED STREET PLANS
FOR WORK WITHIN COUNTY RIGHT-OF-WAY

SHOWN FOR REFERENCE ONLY. SEE
APPROVED STREET PLANS FOR WORK
WITHIN COUNTY RIGHT-OF-WAY

TYPE OM1-3 MARKER

(5) TYPE OM2-2V
OBJECT MARKERS

NEW WAREHOUSE
FF = VARIES (400.30
PERIMETER)
FP = SEE STRUCTURAL

0.1' DEPRESSION

PAVEMENT BREAK

LIMITS OF OVER-EXCAVATION

VERIFY ROOF DRAIN
LOCATIONS & SIZE
W/ PLUMBING PLANS (TYP)

TRANSITION FROM
4" TO 6" CURB

SHADE STRUCTURE

DOCK WALL, SEE
STRUCTURAL

FUTURE EV CHARGERS
(TYP, SEE ARCH)

EV CHARGERS
(TYP, SEE ARCH)

BIKE RACKS,
SEE ARCHITECTURAL

NEW FENCE,
SEE ARCHITECTURAL

(E) CHAINLINK GATE

(E) CHAINLINK SLIDING GATE

(E) STREET NAME SIGN

(E) STOP SIGN

DRIVEWAY APPROACH PER
C.O.K. PLATE R-55, SEE
SHEET C4

PRIVATE EASEMENT FOR
ROAD PURPOSES PER
BK.274, PG. 57-58, OF
DEEDS

EASEMENT GRANTED TO THE CALIFORNIA WATER SERVICE
COMPANY PER DOC. No. 0214053176, O.R.

20 FOOT PIPELINE EASEMENT PER DOCUMENT
No. 221127563, OFFICIAL RECORDS.
NOTE: THE AS-BUILT OIL & GAS PIPELINE
WAS PLOTTED TO THE BEST INFORMATION
PROVIDED IN THE RECORDED DOCUMENT. THE
LEGAL DESCRIPTION SHOWS A WRONG
DISTANCE OF 26.92 FEET FOR COURSE #2
AND THE EXHIBIT SHOWS A CORRECT L2
DISTANCE OF 2.92, WHICH WAS USED TO
PLOT THE PIPELINE. ALSO, THE TIE
REFERENCE TO THE POINT OF
COMMENCEMENT DOES NOT CLOSE.

MATCH LINE - SEE SHEET C3

PORTION OF LOT 17
SALES MAP OF
KERN COUNTY
LAND COMPANY
APN: 452-070-35

A NEW BUILDING FOR:

KERN COUNTY
PUBLIC WORKS

KERN COUNTY
SPECIAL WASTE
FACILITY

SEC OF DOWNING AVE
& WEAR ST
BAKERSFIELD, CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
ROBERT T. SWANSON
No. 43032
EXP. 3-31-26
CIVIL
STATE OF CALIFORNIA

DATE	ISSUED FOR
1/12/26	GRADING PERMIT

REVISION	DESCRIPTION
1 1/13/26	ADDENDUM #5
2 8/26/26	ADDENDUM #6

GRADING-NORTH

SCALE: 1" = 20'
20 10 0 20 40

SWANSON ENGINEERING, INC.
2000 Oak Street, Suite 150 ~ Bakersfield, CA 93301
p:(661) 631-4919; f:(661) 873-4777

JOB# 23-015 JLS

JOB
DP
PM

C2B

SHEET 2 OF 9

LEGEND:

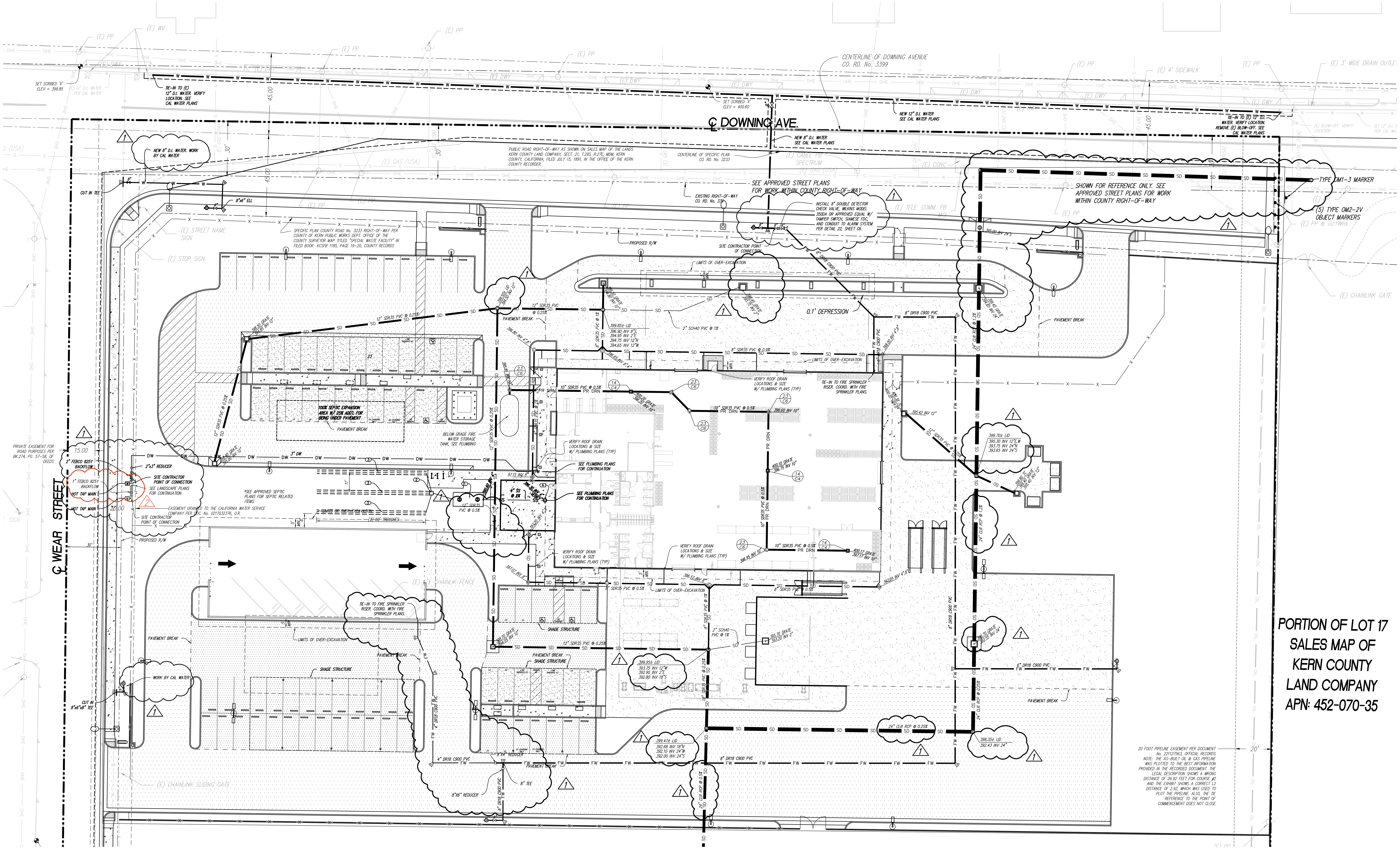
ABBREVIATIONS:
(E) EXISTING
TYP. TYPICAL
FD. FOUND
BK. BOOK
PG. PAGE
C.O.K. COUNTY OF KERN
C.O.B. CITY OF BAKERSFIELD
O.R. OFFICIAL RECORDS
CONC CONCRETE
A.C. ASPHALT PAVEMENT
FG FINISH GRADE
EP EDGE OF PAVEMENT
TC TOP OF CURB
FL FLOWLINE
O. CENTERLINE
FF FINISHED FLOOR
FP FINISHED PAD
TP TOP OF PAVEMENT
GB GRADE BREAK
INV INVERT
FS FINISH SURFACE
TW TOP OF WALL

EXISTING FIRE HYDRANT
EXISTING WATER METER
EXISTING WATER VALVE
EXISTING HOSE BIB
EXISTING POWER POLE
EXISTING STREET LIGHT
FOUND MONUMENT
EXISTING TRAFFIC SIGN
EXISTING SEWER MANHOLE
EXISTING STORM DRAIN MANHOLE
EXISTING SEWER CLEANOUT
EXISTING IRRIGATION VALVE
EXISTING TELEPHONE PULL BOX
EXISTING GAS METER
EXISTING ELECTRICAL PULL BOX
EXISTING LIGHT POLE
EXISTING NATURAL GRADE SPOT ELEVATION
NEW STORM DRAIN MANHOLE PER C.O.K. PLATE S-3, SEE SHEET C4

EXISTING STORM DRAIN LINE
EXISTING FIBER OPTIC LINE
EXISTING WATER LINE
EXISTING SEWER LINE
EXISTING GAS LINE
EXISTING FENCELINE
EXISTING ELECTRIC LINE
EXISTING OVERHEAD ELECTRIC LINE
EXISTING PROPERTY LINE
EXISTING RIGHT-OF-WAY
EXISTING CURB & GUTTER
EXISTING EDGE OF PAVEMENT
NEW FENCE, SEE ARCHITECTURAL
NEW STORM DRAIN LINE
NEW FIBER OPTIC LINE
NEW WATER LINE
NEW SEWER LINE

UTILITY TRENCH

UTILITY TRENCHING SHALL COMPLY WITH DETAIL 11, SHEET C4



LEGEND:

ABBREVIATIONS:

(E)	EXISTING
TYP.	TYPICAL
FD.	FOUND
BK.	BOOK
PG.	PAGE
C.O.K.	COUNTY OF KERN
C.O.B.	CITY OF BAKERSFIELD
O.R.	OFFICIAL RECORDS
CONC	CONCRETE
A.C.	ASPHALT PAVEMENT
FG	FINISH GRADE
EP	EDGE OF PAVEMENT
TC	TOP OF CURB
FL	FLOWLINE
CL	CENTERLINE
FF	FINISHED FLOOR
FP	FINISHED PAD
TP	TOP OF PAVEMENT
GB	GRADE BREAK
INV	INVERT
FS	FINISH SURFACE
TW	TOP OF WALL

EXISTING FIRE HYDRANT
EXISTING WATER METER
EXISTING WATER VALVE
EXISTING HOSE BIB
EXISTING POWER POLE
EXISTING STREET LIGHT
FOUND MONUMENT
EXISTING TRAFFIC SIGN
EXISTING SEWER MANHOLE
EXISTING STORM DRAIN MANHOLE
EXISTING SEWER CLEANOUT
EXISTING IRRIGATION VALVE
EXISTING TELEPHONE PULL BOX
EXISTING GAS METER
EXISTING ELECTRICAL PULL BOX
EXISTING LIGHT POLE
EXISTING NATURAL GRADE SPOT ELEVATION

EXISTING STORM DRAIN LINE
EXISTING FIBER OPTIC LINE
EXISTING WATER LINE
EXISTING SEWER LINE
EXISTING GAS LINE
EXISTING FENCELINE
EXISTING ELECTRIC LINE
EXISTING OVERHEAD ELECTRIC LINE
EXISTING PROPERTY LINE
EXISTING RIGHT-OF-WAY
EXISTING CURB & GUTTER
EXISTING EDGE OF PAVEMENT
NEW STORM DRAIN LINE
NEW FIRE WATER LINE
NEW DOMESTIC WATER LINE
NEW SANITARY SEWER LINE

NEW FIRE HYDRANT PER C.O.K. STANDARD W-1
NEW GATE VALVE PER C.O.K. STANDARDS W-1 & W-2
NEW THRUST BLOCK PER DETAIL 25, SHEET C6
SEPTIC CONSTRUCTION NOTE. SEE APPROVED SEPTIC PLANS.

UTILITY TRENCH

UTILITY TRENCHING SHALL COMPLY WITH DETAIL 11, SHEET C4

FIRE WATER

FIRE WATER TO BE PERMITTED BY SEPARATE SUBMITTAL.

SEPTIC NOTE

SEPTIC SYSTEM TO BE PERMITTED BY SEPARATE SUBMITTAL.

CONTRACTOR TO OBTAIN SITE FIRE WATER PERMIT PRIOR TO ANY WORK BEING DONE ON THE SITE UNDERGROUND FIRE WATER SYSTEM. CONTACT NICK HUPP AT 391-3316.

N

SCALE: 1" = 20'

20 10 0 20 40

Skarphol / Frank Associates
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REGISTERED PROFESSIONAL ENGINEER ROBERT T. SWANSON No. 43032 EXP. 3-31-28 CIVIL STATE OF CALIFORNIA

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KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR
1/22/25	GRADING PERMIT

REVISION	DESCRIPTION
1 7/13/26	ADDENDUM #5
2 8/26/26	ADDENDUM #9

SITE UTILITY PLAN

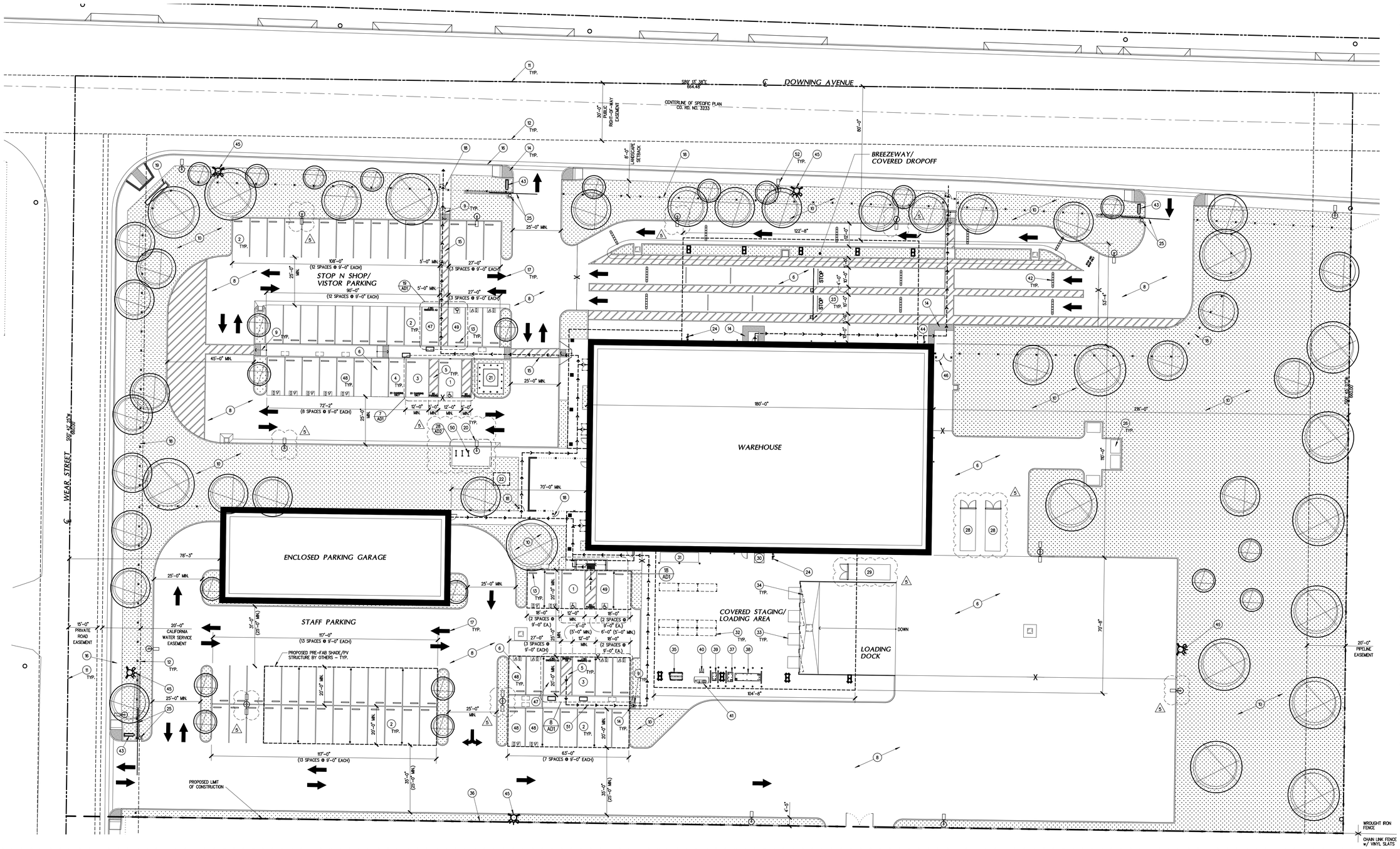
SWANSON ENGINEERING, INC.
© 2026
2000 Oak Street, Suite 150 ~ Bakersfield, CA 93301
p:(661) 831-4919; f:(661) 873-4777

JOB#- 23-015 JLS

JOB	
DP	
PM	

C5B

SHEET 5 OF 9



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. 9'-0" WIDE x 20'-0" VAN ACCESSIBLE DEEP ELECTRIC VEHICLE CHARGING STATION PER CITY & CALGREEN STANDARDS – PROVIDE "CARGEPOINT" "CT4000" LEVEL 2 EV CHARGER w/ J1772 OR J3400 CONNECTOR OR APPROVED EQUAL – VERIFY w/ ELECTRICAL
4. 9'-0" WIDE x 20'-0" DEEP ELECTRIC VEHICLE CHARGING STATION PER CITY & CALGREEN STANDARDS – PROVIDE LEVEL 2 EV CHARGER w/ J1772 OR J3400 CONNECTOR OR APPROVED EQUAL – VERIFY w/ ELECTRICAL
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/A02 FOR REQUIRED GATE CLEARANCES

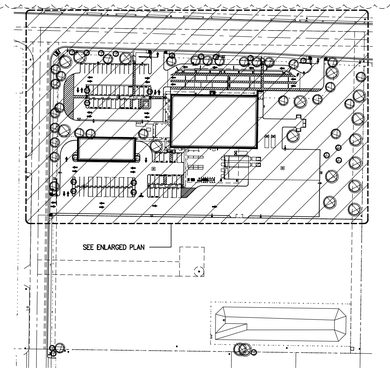
HARDWARE

1 EA. PANIC HARDWARE AXLD98EO-WP 626 VON

OR APPROVED EQUAL. BALANCE OF HARDWARE BY GATE MANUFACTURER

19. 15'-0" WIDE x 6'-2" HIGH MONUMENT SIGN WITH CONCRETE BASE – SEE DETAIL 14/AD1
20. HIGH EFFICIENCY POLE MOUNTED LUMINAIRE – 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 PROVIDED BY CONTRACTOR, INSTALLED BY CONTRACTOR
24. EYEWASH STATION PROVIDED BY CONTRACTOR, INSTALLED BY CONTRACTOR
25. 8'-0" HIGH WROUGHT IRON ROLLING GATE w/ GATE MOTOR
26. EXPLOSIVE LOCKERS PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
27. NOT USED
28. GARBAGE BIN PROVIDED BY OWNER
29. LATEX BIN PROVIDED BY OWNER
30. IN-GROUND SCALE – "DILESNEN" HYGENIC SCALE OR APPROVED EQUAL PROVIDED AND INSTALLED BY CONTRACTOR
31. PROPANE CAGE PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
32. PALLET RACKS PROVIDED BY AND INSTALLED BY CONTRACTOR
33. TRUCK DOCK LEVELERS – "POWERAMP" "PK-6530" w/ "POWERAMP" "POWERSTOP SERIES" AUTOMATIC VEHICLE RESTRAINTS OR APPROVED EQUAL – INSTALL PER MANUFACTURER REQUIREMENTS
34. SWING-UP 40M DOCK SECURITY GATE – "EDGESAFE" "ESG-96-RCV" OR APPROVED EQUAL – INSTALL PER MANUFACTURER REQUIREMENTS
35. BALER PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
36. 6'-0" HIGH CHAIN LINK FENCE w/ VINYL SLATS
37. SMALL OIL POD PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
38. LARGE OIL POD PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
39. ANTIFREEZE POD PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
40. OIL FILTER CRUSHER PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
41. AIR COMPRESSOR PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
42. SPEED BUMPERS PROVIDED BY CONTRACTOR, INSTALLED BY CONTRACTOR
43. 5'-0" WIDE x 4'-2" HIGH MONUMENT SIGN WITH CONCRETE BASE – SEE DETAIL 13/AD1
44. FIRE SPRINKLER RISER
45. NEW FIRE HYDRANT LOCATION – SEE CIVIL PLAN
46. 6'-0" WIDE WROUGHT IRON GATE
47. 9'-0" WIDE x 20'-0" STANDARD ACCESSIBLE DEEP ELECTRIC VEHICLE CHARGING STATION PER CITY & CALGREEN STANDARDS – PROVIDE "CARGEPOINT" "CT4000" LEVEL 2 EV CHARGER w/ J1772 OR J3400 CONNECTOR OR APPROVED EQUAL – VERIFY w/ ELECTRICAL
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 5.106.4.11
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%
52. POLE MOUNTED STREET LIGHT PER COUNTY STANDARDS – SEE STREET PLANS FOR ADDITIONAL INFORMATION

20'



KEY PLAN

N.S.

Skarphol / Frank Associates
ARCHITECTURE • PLANNING • INTERIORS
Paul Skarphol, Architect • Gregory Frank, Architect
925 17th Street
Bakersfield, CA 93301
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LICENSED ARCHITECT GREGORY FRANK NO. C-31980 RENEWAL 8/31/2027 STATE OF CALIFORNIA

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

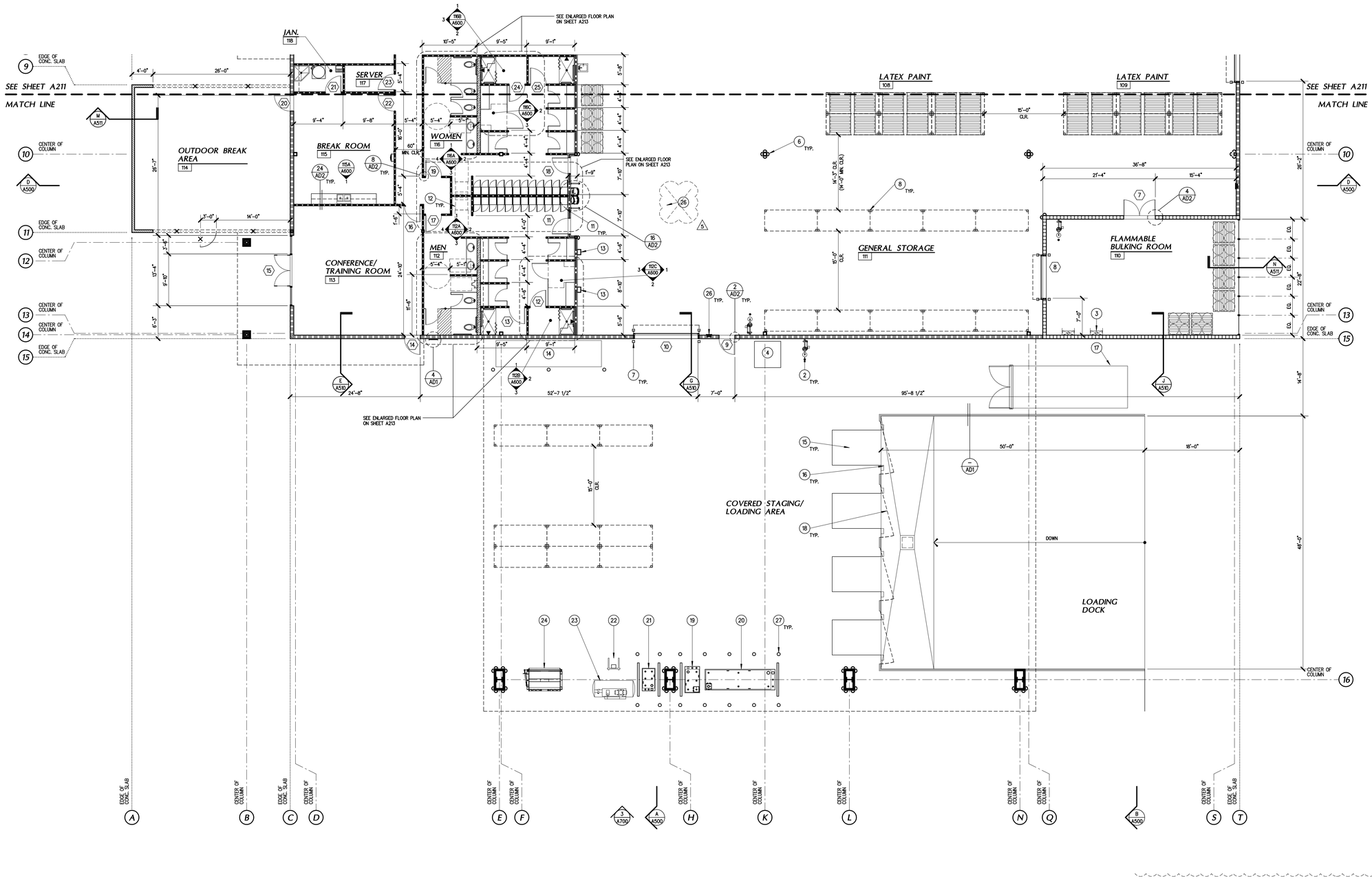
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION
1 5-27-25	BUILDING DEPARTMENT COMPLIANCE
2 8-18-25	BUILDING DEPARTMENT COMPLIANCE
3 10-30-25	BUILDING DEPARTMENT COMPLIANCE
4 07-08-26	ADDENDUM #2
5 07-29-26	ADDENDUM #5
6 09-09-26	ADDENDUM #9

JOB 7005	
DP AC/JV	A100C
PM GJF	



ENLARGED FLOOR PLAN - SOUTH

1/8"

WALL LEGEND

- 2x4 WOOD STUDS @ 16" O.C. w/ 5/8" GYPSUM BOARD EACH SIDE – TOP @ +6" ABOVE ADJACENT CEILING
- 1-HOUR FIRE BARRIER CONSTRUCTED IN ACCORDANCE WITH UL-LISTED DESIGN V311 – –2x6 WOOD STUDS @ 16" O.C. –1 LAYER 5/8" THICK GYPSUM BOARD PANEL EACH SIDE FROM FLOOR TO STRUCTURE ABOVE — 1
- 2x6 WOOD STUDS STUDS @ 16" O.C. w/ 2" AEP SPAN PANELS EACH SIDE
- 2x4 WOOD STUDS @ 16" O.C. OVER 48" POURED IN PLACED CONCRETE WAINSCOT w/ 2" AEP SPAN PANELS @ EXTERIOR
- 2x6 WOOD STUDS @ 16" O.C. w/ 5/8" GYPSUM BOARD EACH SIDE w/ BATT INSULATION FOR SOUND – TOP @ +6" ABOVE ADJACENT CEILING
- 3-HOUR FIRE BARRIER –8" POURED IN PLACE CONCRETE WALL — 1
- 3x8 WOOD STUDS @ 16" O.C. OVER 48" POURED IN PLACED CONCRETE WAINSCOT w/ 2" AEP SPAN PANELS @ EXTERIOR — 5
- 4 "KAWNEER" SEALED CAN" ALUMINUM STOREFRONT SYSTEM w/ DARK BRONZE FINISH w/ CENTER LOADED 1" DUAL GLAZING BY "PPG" CLEAR w/ "SOLARBRONZE" OVER "SOLARBAN" 70XL" (1/4"GLASS/x1/2"AIR SPACE x1/4"GLASS) – THE U- VALUE FOR GLAZING SHALL BE: 0.38 MIN.
- EXPLOSION RELIEF PANELS – POLYCARBONATE PANEL IN ALUMINUM FRAME — 4

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. INSTALL 5/8" MOISTURE RESISTANT WALL BOARD BEHIND ALL PLUMBING FIXTURE LOCATIONS.
3. ALL NEW GYPSUM BOARD SHALL HAVE METAL 90° CLINCH-ON CORNER BEAD – FLOAT FINISH TO PROVIDE A SMOOTH TRANSITION.
4. PROVIDE HORIZONTAL BACKING FOR CABINETRY SHELVING AND ACCESSORIES AS REQUIRED – REFER TO DETAIL 18/AD2 FOR ADDITIONAL INFORMATION
5. INSTALL R-21 BATT INSULATION IN FRAMING AT ALL NEW EXTERIOR WALLS.
6. INSTALL R-17 BATT INSULATION AT ROOF DECK OF CONDITIONED SPACES OR APPROVED EQUAL.
7. ALL THERMAL WALL INSULATION SHALL EXTEND TO ROOF INSULATION FOR A CONTINUOUS ENVELOPE.
8. INSTALL BATT INSULATION AT MEN & WOMEN CEILING AND WALLS FOR SOUND.
9. INSTALL BATT INSULATION FOR SOUND AT ALL NEW PARTITIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR SLAB THICKNESS AND REINFORCING REQUIREMENTS. PROVIDE 15 MIL STEGO WRAP VAPOR BARRIER.
11. PROVIDE "VAPORLOCK 20/20" CONCRETE ADMIXTURE FOR WATERPROOFING BY "SPECIALTY PRODUCTS GROUP SPG" OR APPROVED EQUAL.
12. PROVIDE TERMITE PRE-TREATMENT CONTROL TO SOILS SURROUNDING FOUNDATION.
13. PROVIDE THREE (3) FIRE EXTINGUISHERS IN SEMI-RECESSED CABINETS – SEE PLAN FOR LOCATIONS.
14. INTERIOR GLAZING SHALL BE CLEAR w/ DECORATIVE FILM – VERIFY PATTERN w/ ARCHITECT

FLOOR PLAN NOTES (CONTINUED)

15. IN ASSEMBLY SPACES AND CONFERENCE ROOMS, PROVIDE ASSISTIVE – LISTENING SYSTEMS PER CBC 11B–219. MINIMUM NUMBER OF RECEIVERS PROVIDED TO BE 4% OF SEATS, BUT IN NO CASE LESS THAN TWO. TWENTY–FIVE PERCENT MINIMUM OF RECEIVERS PROVIDED, BUT NO FEWER THAN TWO, SHALL BE HEARING–AID COMPATIBLE IN ACCORDANCE WITH SECTION 11B–706.3. IF THE ASSISTIVE LISTENING SYSTEM PROVIDED IS LIMITED TO SPECIFIC AREAS OF SEATS, THEN SUCH AREAS FOR SEATS TO BE WITHIN A 50 FOOT VIEWING DISTANCE OF THE PERFORMING AREA. A SIGN SHALL BE POSTED IN A PROMINENT PLACE INDICATING THE AVAILABILITY OF ASSISTED LISTENING DEVICES. THE SIGN SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS AND WORDING THAT STATES "ASSISTIVE–LISTENING SYSTEM AVAILABLE." – INSTALL ASSISTIVE LISTENING DEVICE "LP–3CV–072–0T RF 3 CHANNEL BY "LISTEN TECH" OR APPROVED EQUAL.
16. FLOOR SURFACE IS REQUIRED TO BE SLIP–RESISTANT.
17. ALL CONCRETE SAW CUTS SHALL BE REINFORCED WITH 12" LONG #4 REBAR DOWELS @ 32" O.C. STAGGER EACH SIDE – EMBED EACH DOWEL 6" INTO THE EXISTING CONCRETE SLAB – THE NEW CONCRETE SLAB THICKNESS SHALL MATCH THE EXISTING CONCRETE SLAB THICKNESS – VAPOR BARRIER AND SAND FILL SHALL MATCH THAT OF THE EXISTING CONCRETE SLAB
18. SEE DETAIL 22/A02 FOR REQUIRED DOOR CLEARANCES
19. QUANTITIES OF FLAMMABLE MATERIALS STORED IN FLAMMABLE BULKING ROOM 110 SHALL EXCEED THE QUANTITIES LISTED IN CBC TABLE 307.1(1) AND 307.1(2).
20. PER CBC 415.9.3.1, WHERE THE STORAGE TANK AREA IS LOCATED IN A BUILDING OF TWO OR MORE STORIES AND THE QUANTITY OF MATERIAL EXCEEDS THE MAXIMUM ALLOWABLE QUANTITY FOR ONE CONTROL AREA, THE USE SHALL BE COMPLETELY SEPARATED FROM ADJACENT OCCUPANCIES IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 508.4.
21. PER CBC 415.9.3.4, A LIQUID–TIGHT CONTAINMENT AREA COMPATIBLE WITH THE STORED LIQUID SHALL BE PROVIDED. THE METHOD OF SPILL CONTROL, DRAINAGE CONTROL AND SECONDARY CONTAINMENT SHALL BE IN ACCORDANCE WITH THE CALIFORNIA FIRE CODE.
22. PREVENTION, CONTROL AND MITIGATION OF DANGEROUS CONDITIONS RELATED TO STORAGE, USE, DISPENSING, MIXING AND HANDLING OF FLAMMABLE AND COMBUSTIBLE LIQUIDS SHALL BE IN ACCORDANCE WITH CALIFORNIA FIRE CODE CHAPTER 50 & 57.
23. FOR MAXIMUM EXPECTED QUANTITIES OF HAZARDOUS MATERIALS, PLEASE REFERENCE "PERMIT BY RULE REVISED NOTIFICATION" PROVIDED BY OWNER — 1

WINDOW SCHEDULE

PROVIDE ALL HARDWARE FOR A COMPLETE INSTALLATION

- A — 3040 FIXED GLASS, DUAL GLAZED VINYL FRAME WINDOW
- B — 80100 FIXED GLASS, CLERESTORY DUAL GLAZED VINYL FRAME WINDOW – SEE EXTERIOR ELEVATIONS

KEY NOTES — 5

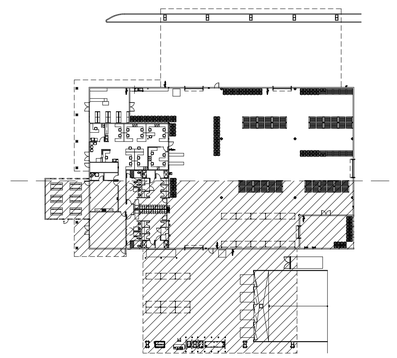
1. SHELVING UNITS BY "ULINE" OR APPROVED EQUAL
2. EYE WASH AND SHOWER STATIONS
3. FUME HOOD PROVIDED AND INSTALLED BY CONTRACTOR — 6
4. IN–GROUND SCALE – "TELERSEN" HYGENIC SCALE OR APPROVED EQUAL – PROVIDED AND INSTALLED BY CONTRACTOR — 6
5. FIRE SPRINKLER RISER
6. COLUMN PROTECTOR – 4 EA. PER COLUMN U.N.O., MODEL# WG–CP BY "WILDECK" OR EQUAL – INSTALL PER MANUFACTURER REQUIREMENTS
7. (4) 5" X 5" BOLLARDS AT EA. ROLLUP OR OPENING, MODEL# WG–36 BY "WILDECK" OR EQUAL – INSTALL PER MANUFACTURER REQUIREMENTS
8. PALLET RACKS PROVIDED AND INSTALLED BY CONTRACTOR
9. PERSONAL PROTECTIVE EQUIPMENT LOCKER — 5
10. HAND SINK
11. 15"x18" LOCKERS
12. WASHER/DRYER SPACE
13. FUTURE FORKLIFT CHARGING STATIONS
14. PROPANE CAGE
15. TRUCK DOCK LEVELERS – "POWERAMP" "PR–6510" w/ "POWERAMP" "POWERSTOP SERIES" AUTOMATIC VEHICLE RESTRAINTS OR APPROVED EQUAL – INSTALL PER MANUFACTURER REQUIREMENTS — 6

KEY NOTES (CONTINUED)

16. TRUCK BUMPER – "POWERAMP" LAMINATED BUMPERS OR APPROVED EQUAL – INSTALL PER MANUFACTURER REQUIREMENTS — 6
17. LATEX STORAGE BIN – PROVIDED BY OWNER
18. SWING–UP ARM DOCK SECURITY GATE – "EDGESAFE" "ESG–96–PCY" OR APPROVED EQUAL – INSTALL PER MANUFACTURER REQUIREMENTS
19. OIL TANK (SMALL) – PROVIDED BY OWNER
20. OIL TANK (LARGE) – PROVIDED BY OWNER
21. ANTIFREEZE TANK – PROVIDED BY OWNER
22. OIL FILTER CRUSHER – PROVIDED BY OWNER
23. AIR COMPRESSOR – PROVIDED BY OWNER
24. BALER – PROVIDED BY OWNER
25. ROOF ACCESS LADDER
26. MINIMUM 4A RATED FIRE EXTINGUISHER – "ACTIVAR" "1017VID" 3" ROLLED TRIM SEMI–RECESSED CABINET OR APPROVED EQUAL — 5
27. 4" SCHEDULE 40 GALVANIZED PIPE BOLLARDS, 48" TALL w/ 48" BURY – FILL w/ CONCRETE

DESIGN CAPACITY

AREA	DRUMS	PALLET/CY
BULKING ROOM:	24	6
LABPACKS:	96	29
ACIDS:	14	8
BASES:	14	8
E–WASTE:	0	72
LATEX:	0	72
TOTAL:	148	195



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LICENSED ARCHITECT GREGORY FRANK NO. C-31980 RENEWAL 8/31/2027 STATE OF CALIFORNIA

A NEW BUILDING FOR:

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KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

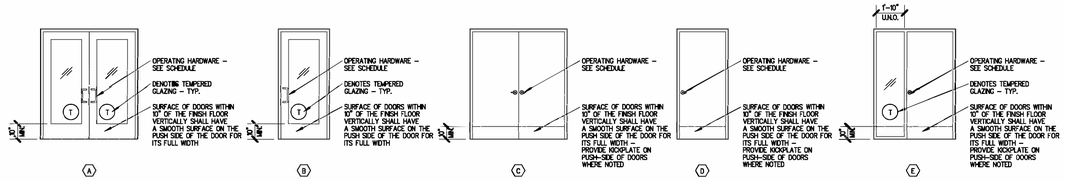
REVISION	DESCRIPTION
1 5-27-25	BUILDING DEPARTMENT COMPLIANCE
2 9-16-25	BUILDING DEPARTMENT COMPLIANCE
3 10-30-25	BUILDING DEPARTMENT COMPLIANCE
4 07-08-26	ADDENDUM #2
5 07-29-26	ADDENDUM #5
6 08-01-26	ADDENDUM #9

JOB 7005	A212C
DP AC/JV	
PM GJF	

DOOR SCHEDULE

DOOR NO.	LOCATION	FIRE RATING	DOOR DESCRIPTION	DOOR TYPE	DOOR FINISH	HARDWARE SET	DOOR FRAME	HEAD DETAIL	JAMB DETAIL	FRAME FINISH	REQUIRED SIGNAGE (NOT INCLUDING TENANT ROOM IDENTIFICATION)	ADDITIONAL HARDWARE/ MISC.	REMARKS
1	EXTERIOR TO STOP N SHOP 101		PAIR OF 3070 TEMPERED STOREFRONT	A	DARK BRONZE ANODIZED	09	INTEGRAL ALUMINUM STOREFRONT SYSTEM			DARK BRONZE ANODIZED	SYMBOL OF ACCESSIBILITY-1/A01		TEMPERED INTEGRAL EXTERIOR STOREFRONT SYSTEM – SEE ELEVATIONS
2	STOP N SHOP 101 TO LAB AREA/BATTERIES/LAMPS 102	60 MINUTE FIRE RATED DOOR & FRAME w/ LABELS	PAIR OF 3070 INSULATED METAL	C	PAINT	11	HOLLOW METAL	5 / AD2	6 / AD2	PAINT			
3	EXTERIOR TO LAB PACK AREA 103		120120 INSULATED OVERHEAD ROLL-UP	F	–		STEEL WALL WITH VINYL JAMB						
4	EXTERIOR TO LAB PACK AREA 103		3070 INSULATED METAL	D	PAINT	01	HOLLOW METAL	1 / AD2	2 / AD2	PAINT	SYMBOL OF ACCESSIBILITY-1/A01		
5	EXTERIOR TO E-WASTE 104		120120 INSULATED OVERHEAD ROLL-UP	F	–		STEEL WALL WITH VINYL JAMB						
6	EXTERIOR TO LATEX PAINT 109		120120 INSULATED OVERHEAD ROLL-UP	F	–		STEEL WALL WITH VINYL JAMB						
7	FLAMMABLE BULKING ROOM 110 TO LATEX PAINT 109	3-HOUR FIRE RATED DOOR & FRAME w/ LABELS	PAIR OF 3070 INSULATED METAL	C	PAINT	11	HOLLOW METAL	3 / AD2	4 / AD2	PAINT			
8	FLAMMABLE BULKING ROOM 110 TO GENERAL STORAGE 111	3-HOUR FIRE RATED DOOR & FRAME w/ LABELS	80120 INSULATED OVERHEAD ROLL-UP	G	–		STEEL WALL WITH VINYL JAMB						
9	EXTERIOR TO GENERAL STORAGE 111		3070 INSULATED METAL	D	PAINT	01	HOLLOW METAL	1 / AD2	2 / AD2	PAINT	SYMBOL OF ACCESSIBILITY-1/A01		
10	EXTERIOR TO GENERAL STORAGE 111		120120 INSULATED OVERHEAD ROLL-UP	F	–		STEEL WALL WITH VINYL JAMB						
11	MEN 112 TO WAREHOUSE	60 MINUTE FIRE RATED DOOR & FRAME w/ LABELS	3070 INSULATED METAL	D	PAINT	08	HOLLOW METAL	5 / AD2	6 / AD2	PAINT			
12	MEN ACCESSIBLE SHOWER TO MEN CHANGING ROOM		3070 SOLID CORE WOOD DOOR	D	PAINT	04	ALUMINUM	7 / AD2	8 / AD2	CLEAR ANODIZED			
13	MEN SHOWER TO MEN CHANGING ROOM		3070 SOLID CORE WOOD DOOR	D	PAINT	04	ALUMINUM			CLEAR ANODIZED			
14	EXTERIOR TO CONFERENCE/TRAINING ROOM 113		3070 INSULATED METAL	D	PAINT	01	HOLLOW METAL	1 / AD2	2 / AD2	PAINT	SYMBOL OF ACCESSIBILITY-1/A01		
15	EXTERIOR TO CONFERENCE/TRAINING ROOM 113		PAIR OF 3070 TEMPERED STOREFRONT	A	DARK BRONZE ANODIZED	09	INTEGRAL ALUMINUM STOREFRONT SYSTEM			DARK BRONZE ANODIZED			TEMPERED INTEGRAL EXTERIOR STOREFRONT SYSTEM – SEE ELEVATIONS
16	CONFERENCE/TRAINING ROOM 113 TO CORRIDOR		3070 SOLID CORE WOOD DOOR	D	PAINT	03	ALUMINUM	7 / AD2	8 / AD2	CLEAR ANODIZED			
17	MEN 112 TO CORRIDOR		3070 SOLID CORE WOOD DOOR	D	PAINT	06	ALUMINUM			CLEAR ANODIZED			
18	WOMEN 115 TO WAREHOUSE	60 MINUTE FIRE RATED DOOR & FRAME w/ LABELS	3070 INSULATED METAL	D	PAINT	08	HOLLOW METAL	5 / AD2	6 / AD2	PAINT			
19	WOMEN 115 TO CORRIDOR		3070 SOLID CORE WOOD DOOR	D	PAINT	06	ALUMINUM	7 / AD2	8 / AD2	CLEAR ANODIZED			
20	BREAK ROOM 115 TO OUTDOOR BREAK AREA 114		3070 INSULATED METAL	D	PAINT	07	HOLLOW METAL	1 / AD2	2 / AD2	PAINT			
21	JANITOR 116 TO BREAK ROOM 115		3070 SOLID CORE WOOD DOOR	D	PAINT	05	ALUMINUM	7 / AD2	8 / AD2	CLEAR ANODIZED			
22	BREAK ROOM 115 TO CORRIDOR		3070 SOLID CORE WOOD DOOR	D	PAINT	06	ALUMINUM			CLEAR ANODIZED			
23	SERVER 117 TO CORRIDOR		3070 SOLID CORE WOOD DOOR	D	PAINT	05	ALUMINUM			CLEAR ANODIZED			
24	WOMEN ACCESSIBLE SHOWER TO WOMEN CHANGING ROOM		3070 SOLID CORE WOOD DOOR	D	PAINT	04	ALUMINUM			CLEAR ANODIZED			
25	WOMEN SHOWER TO WOMEN CHANGING ROOM		3070 SOLID CORE WOOD DOOR	D	PAINT	04	ALUMINUM			CLEAR ANODIZED			
26	EXTERIOR TO ELECTRICAL 119		3070 INSULATED METAL	D	PAINT	01	HOLLOW METAL	1 / AD2	2 / AD2	PAINT			
27	EXTERIOR TO RECEPTION 122		PAIR OF 3070 TEMPERED STOREFRONT	A	DARK BRONZE ANODIZED	09	INTEGRAL ALUMINUM STOREFRONT SYSTEM			DARK BRONZE ANODIZED	SYMBOL OF ACCESSIBILITY-1/A01		TEMPERED INTEGRAL EXTERIOR STOREFRONT SYSTEM – SEE ELEVATIONS
28	OFFICE 123 TO RECEPTION 122		3070 SOLID CORE WOOD DOOR	E	PAINT	03	ALUMINUM w/ INTEGRAL SIDELITE	7 / AD2	8 / AD2	CLEAR ANODIZED			
29	OFFICE 120 TO OPEN OFFICE 121		3070 SOLID CORE WOOD DOOR	E	PAINT	03	ALUMINUM w/ INTEGRAL SIDELITE			CLEAR ANODIZED			
30	OPEN OFFICE 121 TO WAREHOUSE	60 MINUTE FIRE RATED DOOR & FRAME w/ LABELS	3070 INSULATED METAL	D	PAINT	02	HOLLOW METAL	5 / AD2	6 / AD2	PAINT			

DOOR TYPES / FRAMES



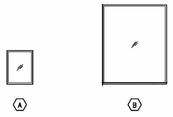
WINDOW SCHEDULE

WINDOW NO.	LOCATION	FIRE RATING	WINDOW SIZE/STYLE	WINDOW TYPE	WINDOW FRAMING	WINDOW GLAZING	GLAZING U-VALUE	GLAZING SHGC	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	INTERIOR FRAME FINISH	EXTERIOR FRAME FINISH	REMARKS
1	OFFICE 120 TO WAREHOUSE	1-HOUR	3'-0"x4'-0" FIXED CASEMENT	A	ALUMINUM	TEMPERED-PPG SOLARBAN 70 XL CLEAR	0.57	0.4	11 / AD2	13 / AD2	12 / AD2	CLEAR ANODIZED	CLEAR ANODIZED	60 MINUTE FIRE RATED WINDOW & FRAME w/ LABELS
2	WAREHOUSE – CLERESTORY		8'-0"x10'-0" FIXED CASEMENT	B					11 / AD3	–	12 / AD3	DARK BRONZE ANODIZED	DARK BRONZE ANODIZED	
3	OFFICE 120			–								CLEAR ANODIZED	CLEAR ANODIZED	
4	OFFICE 123			–										

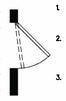
WINDOW NOTES

1. ALL EXTERIOR WINDOWS SHALL BE "VITRO" "SOLARBAN" WINDOWS – STYLE TO BE SELECTED
2. ALL STOREFRONT GLAZING SHALL BE 1" DUAL GLAZING BY "PPG" CLEAR w/ "SOLARBRONZE" OVER "SOLARBAN" "70XL" (1/4" GLASS + 1/2" AIR SPACE + 1/4" GLASS) – THE U-VALUE FOR GLAZING SHALL BE 0.35 MIN.
3. PROVIDE ALL HARDWARE FOR COMPLETE INSTALLATION.
4. INSTALLATION SHALL BE PER APPLICABLE CODES AND INDUSTRY STANDARDS.
5. SEE WINDOW SCHEDULE FOR GLAZING INFORMATION

WINDOW TYPES



DOOR NOTES



1. EACH DOOR SUB-CONTRACTOR (ALUMINUM, STOREFRONT/WOOD/HM) SHALL BE RESPONSIBLE TO ADJUST ALL INTERIOR DOORS SO THAT THE DOORS REQUIRED OPENING FORCE IS 5lbs OR LESS.
2. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM 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 – PER 2022 CBC 11B-404.2.8.1
3. DOOR AND GATE SPRING HINGE SHALL BE ADJUSTED SO THAT THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM – PER 2022 CBC 11B-404.2.8.2

PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION

1. ALL BUTTS SHALL BE "STANLEY" HARDWARE CO. OR EQUAL.
2. INSTALL SPRING HINGE ON DOORS TO MEN, WOMEN AND EXTERIOR HOLLOW METAL DOOR AT CORRIDOR.
3. INSTALL WALL MOUNTED DOOR STOPS AT ALL INTERIOR DOORS – MOUNT AT DOOR HANDLE HEIGHT.
4. INSTALL METAL THRESHOLDS AND WEATHERSTRIPPING ON ALL EXTERIOR DOORS.
5. ALL DOOR, SIDELITE & WINDOW FRAMES SHALL BE BY "ALPHA ALUMINUM" OR EQUAL w/ CLEAR ANODIZED ALUMINUM FINISH – U.N.O.
6. ALL DOOR HARDWARE SHALL HAVE SATIN CHROME/BRUSHED ALUMINUM FINISH – U.N.O.
7. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
8. IN BUILDINGS IN OCCUPANCY GROUP A HAVING AN OCCUPANT LOAD OF 300 OR LESS, GROUPS B, F, M AND S, AND IN PLACES OF RELIGIOUS WORSHIP, THE MAIN DOOR OR DOORS ARE PERMITTED TO BE EQUIPPED WITH KEY-OPERATED LOCKING DEVICES FROM THE EGRESS SIDE PROVIDED:
   - A. THE LOCKING DEVICE IS READILY DISTINGUISHABLE AS LOCKED.
   - B. A READILY VISIBLE DURABLE SIGN IS POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING:

     "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED."

     THE SIGN SHALL BE IN LETTERS 1 INCH HIGH ON A CONTRASTING BACKGROUND.
9. THE FORCES TO UNLATCH DOORS SHALL COMPLY WITH THE FOLLOWING:
   - A. WHERE DOOR HARDWARE OPERATES BY PUSH OR PULL, THE OPERATIONAL FORCE TO UNLATCH THE DOOR SHALL NOT EXCEED 15 POUNDS (67N)
   - B. WHERE DOOR HARDWARE OPERATES BY ROTATION, THE OPERATIONAL FORCE TO UNLATCH THE DOOR SHALL NOT EXCEED 28 INCH POUNDS (315 N–CM).
10. THE FORCE TO OPEN DOORS SHALL COMPLY WITH THE FOLLOWING:
    - A. FOR INTERIOR SWINGING EGRESS DOORS THAT ARE MANUALLY OPERATED, OTHER THAN DOORS REQUIRED TO BE FIRE RATED, THE FORCE FOR PUSHING OR PULLING OPEN THE DOOR SHALL NOT EXCEED 5 POUNDS (22 N)
    - B. FOR OTHER SWINGING DOORS, SLIDING DOORS OR FOLDING DOORS, AND DOORS REQUIRED TO BE FIRE RATED, THE DOOR SHALL REQUIRE NOT MORE THAN A 30–POUND (133 N) FORCE TO BE SET IN MOTION AND SHALL MOVE TO A FULL OPEN POSITION WHEN SUBJECTED TO NOT MORE THAN A 15–POUND FORCE.
11. ALL INTERIOR SWINGING DOORS TO BE PROVIDED WITH LEVERED HANDLES.
12. MAIN ENTRANCE DOORS SHALL BE DESIGNATED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY – REFER TO DETAIL 1/A01 FOR ADDITIONAL INFORMATION
13. SEE DETAIL 9/A01 FOR TOILET ROOM SIGNAGE
14. 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.
15. 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.
16. DOOR AND GATES HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34" MIN. AND 44" MAX. ABOVE FINISHED FLOOR.
17. VERIFY LOCK SETS & KEYING WITH TENANT

HARDWARE SETS

SET #1

3	EA.	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA.	PANIC HARDWARE	GEL-RX-98NL X 990NL	313	VON
1	EA.	RIM CYLINDER	20-057-ICX (SPECIFY A,B OR C)	613	SCH
1	EA.	CORE ONLY	23-030	622	SCH
1	EA.	SECURITY FLOOR STOP	FSWS	BLK	IVE
1	EA.	DOOR SWEEP	39	DUR	ZER
1	EA.	THRESHOLD	545A MSLA-10	AL	ZER
1	2A	WEATHERSTRIP	139	AL	ZER

PERIMETER SEALS BY DOOR MANUFACTURER.

SET #2

3	EA.	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA.	OFFICE LOCK	ALX50T RHO	626	SCH
1	EA.	CORE ONLY	23-030	626	SCH
1	EA.	SURFACE CLOSER	4000 SERIES	689	LCN
1	EA.	KICK PLATE	8400 8" X 2" LDW B-CS	630	IVE
1	EA.	WALL STOP	WS401CCV	626	IVE

INTUMESCENT SEALS BY DOOR MANUFACTURER

SET #3

3	EA.	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA.	OFFICE LOCK	ALX50T RHO	626	SCH
1	EA.	CORE ONLY	23-030	626	SCH
1	EA.	SURFACE CLOSER	4000 SERIES	689	LCN
3	EA.	SILENCER	SR64	GREY	IVE
1	EA.	WALL STOP	WS401CCV	626	IVE

SET #4

3	EA.	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA.	PRIVACY LOCK	ALX40 RHO	626	SCH
1	EA.	SURFACE CLOSER	4000 SERIES	689	LCN
3	EA.	SILENCER	SR64	GREY	IVE
1	EA.	WALL STOP	WS401CCV	626	IVE

SET #5

3	EA.	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA.	STOREROOM LOCK	ALX80T RHO	626	SCH
1	EA.	CORE ONLY	23-030	626	SCH
1	EA.	SURFACE CLOSER	4000 SERIES	689	LCN
3	EA.	SILENCER	SR64	GREY	IVE
1	EA.	WALL STOP	WS401CCV	626	IVE

SET #6

3	EA.	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA.	PASSAGE LATCH	ALX10 RHO	626	SCH
1	EA.	SURFACE CLOSER	4000 SERIES	689	LCN
3	EA.	SILENCER	SR64	GREY	IVE
1	EA.	WALL STOP	WS401CCV	626	IVE

SET #7

3	EA.	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA.	STOREROOM LOCK	ALX80T RHO	626	SCH
1	EA.	CORE ONLY	23-030	626	SCH
1	EA.	SURFACE CLOSER	4000 SERIES	689	LCN
3	EA.	SILENCER	SR64	GREY	IVE
1	EA.	WALL STOP	WS401CCV	626	IVE
1	EA.	DOOR SWEEP	39	DUR	ZER
1	EA.	THRESHOLD	545A MSLA-10	AL	ZER
1	2A	WEATHERSTRIP	139	AL	ZER

PERIMETER SEALS BY DOOR MANUFACTURER.

SET #8

3	EA.	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA.	PASSAGE LATCH	ALX10 RHO	626	SCH
1	EA.	SURFACE CLOSER	4000 SERIES	689	LCN
1	EA.	KICK PLATE	8400 8" X 2" LDW B-CS	630	IVE
1	EA.	WALL STOP	WS401CCV	626	IVE

INTUMESCENT SEALS BY DOOR MANUFACTURER

SET #9

1	EA.	CONTINUOUS HINGE	112HD EPT	313	IVE
1	EA.	PANIC HARDWARE	GEL-RX-98NL X 990NL	313	VON
1	EA.	RIM CYLINDER	20-057-ICX (SPECIFY A,B OR C)	613	SCH
1	EA.	CORE ONLY	23-030	622	SCH
1	EA.	SURFACE CLOSER	4111EDA	695	LCN
1	EA.	SECURITY FLOOR STOP	FSWS	BLK	IVE
1	EA.	DOOR SWEEP	39	DUR	ZER
1	EA.	THRESHOLD	545 MSLA-10	DUR	ZER
1	EA.	DOOR POSITION SWITCH	679-05HM		SCE

PERIMETER SEALS BY DOOR MANUFACTURER

SET #10

3	EA.	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA.	OFFICE LOCK	ALX50T RHO	626	SCH
1	EA.	CORE ONLY	23-030	626	SCH
1	EA.	SURFACE CLOSER	4000 SERIES	689	LCN
3	EA.	SILENCER	SR64	GREY	IVE
1	EA.	WALL STOP	WS401CCV	626	IVE
1	EA.	DOOR SWEEP	39	DUR	ZER

SET #11

3	EA.	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA.	OFFICE LOCK	ALX50T RHO	626	SCH
1	EA.	CORE ONLY	23-030	626	SCH
1	EA.	SURFACE CLOSER	4000 SERIES	689	LCN
1	EA.	ASTRAGAL	40AA	CL	ZER
1	EA.	KICK PLATE	8400 8" X 2" LDW B-CS	630	IVE

INTUMESCENT SEALS BY DOOR MANUFACTURER

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

REGISTERED ARCHITECT GREGORY FRANK NO. C-31680 REVISAL 8/31/2027 STATE OF CALIFORNIA

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

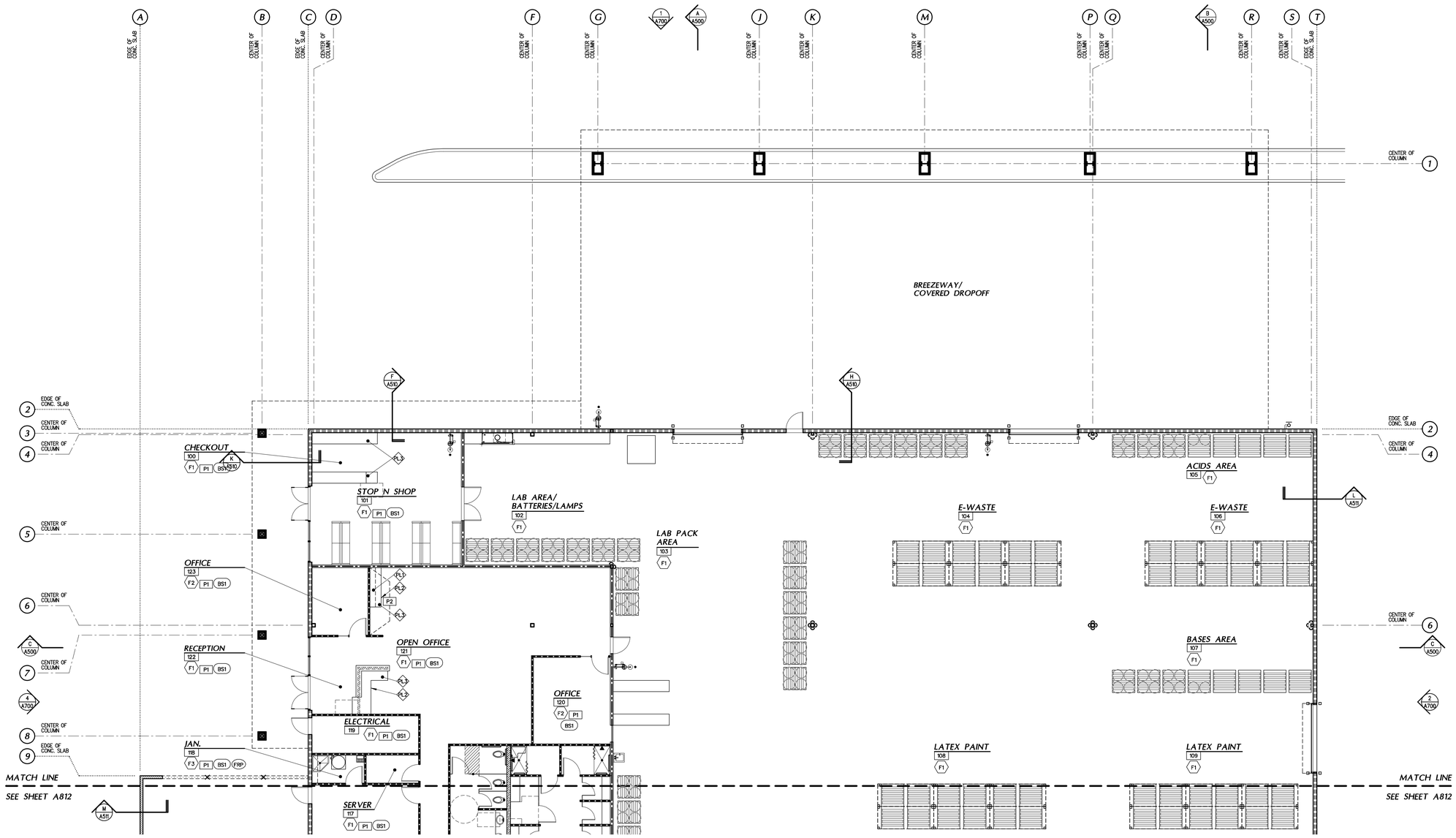
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION
1 1-27-25	BUILDING DEPARTMENT COMPLIANCE
2 5-16-25	BUILDING DEPARTMENT COMPLIANCE
3 10-30-25	BUILDING DEPARTMENT COMPLIANCE
4 07-09-26	ADDENDUM #2
5 07-29-26	ADDENDUM #3
6 08-20-26	ADDENDUM #9

JOB 7005	
DP AC/JV	A214C
PM CJF	



ENLARGED FINISH PLAN - NORTH

1/8"

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 – "JORDAN TAYLOR" CHAIN OPERATED CLUTCH ROLLER SHADES w/ ANODIZED CURVED CASSETTE AND ECO SUN SCREEN 3% OR APPROVED EQUAL.
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)

FLOOR FINISH SCHEDULE

F1 — POLYURETHANE CONCRETE FLOOR SYSTEM
MANUFACTURER: PETRA
PRODUCT: PRIMERS AND SEALERS
DESIGN NAME: XTRAKOTE SEALER
COLOR: CLEAR
SIZE: 12-16 MIL COATING SYSTEM

F2 — LUXURY VINYL TILE
MANUFACTURER: "MILLIKEN"
COLLECTION: HIGH GROUND
DESIGN NAME: THICKET – HG180

F3 — SHEET VINYL w/ 6" COVE BASE
MANUFACTURER: "BEAUFLOR"
COLLECTION: XTREME
COLOR: MIRA 970M

WALL BASE

BS1 — VINYL BASE
MANUFACTURER: FLEXCO
COLOR: 014 MEDIUM GRAY

BS2 — WALL BASE PROFILE – FIELD
SEE DETAIL 22/A201
MANUFACTURER: SCHLUTER SYSTEMS
COLLECTION: DESIGNABLE SL
MATERIAL: STAINLESS STEEL V2A
FINISH: BRUSHED SS
HEIGHT: 4 3/8"

WALL FINISH

FRP — FRP – FIELD
MANUFACTURER: VALTO
STYLE: GLASSBOARD
COLOR: WHITE
FINISH: SMOOTH
TRIM: MATCH COLOR

WT1 — WALL TILE
MANUFACTURER: BEDROSIANS
COLLECTION: CLOE CERAMIC TILE
COLOR: GREEN
SIZE: 2.5"x8" RECTANGLE

GROUT
MANUFACTURER: CUSTOM BUILDING PRODUCTS
STYLE: FUSION PRO
COLOR: #542 ASH

PAINT

P1 — PAINT – FIELD — THROUGHOUT U.N.O.
MANUFACTURER: "SHERWIN – WILLIAMS"
STYLE: EGG SHELL
COLOR: TOQUE WHITE – SW 7003

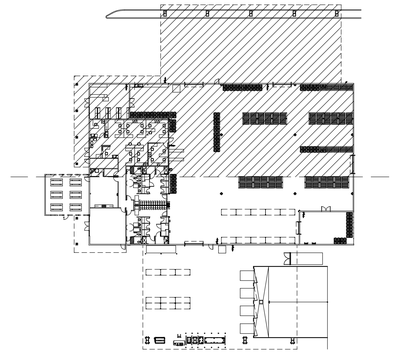
P3 — PAINT – ACCENT 1
MANUFACTURER: "SHERWIN – WILLIAMS"
STYLE: EGG SHELL
COLOR: TEMPE STAR – SW 6229

CABINETS / COUNTER TOPS

PL1 — PLASTIC LAMINATE – VERTICAL SURFACE
MANUFACTURER: "WILSONART"
COLOR: ASIAN SAND
FINISH: MATTE

PL2 — PLASTIC LAMINATE – VERTICAL SURFACE
MANUFACTURER: "WILSONART"
COLOR: ASIAN NIGHT
FINISH: MATTE

PL3 — QUARTZ
MANUFACTURER: "WILSONART"
COLOR: CALACATTA OLYMPOS – B4067
FINISH: POLISHED



KEY PLAN N.S.

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925 17th Street
Bakersfield, CA 93301
(661) 334-2741
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LICENSED ARCHITECT
GREGORY FRANK
NO. C-31980
RENEWAL 8/31/2027
STATE OF CALIFORNIA

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

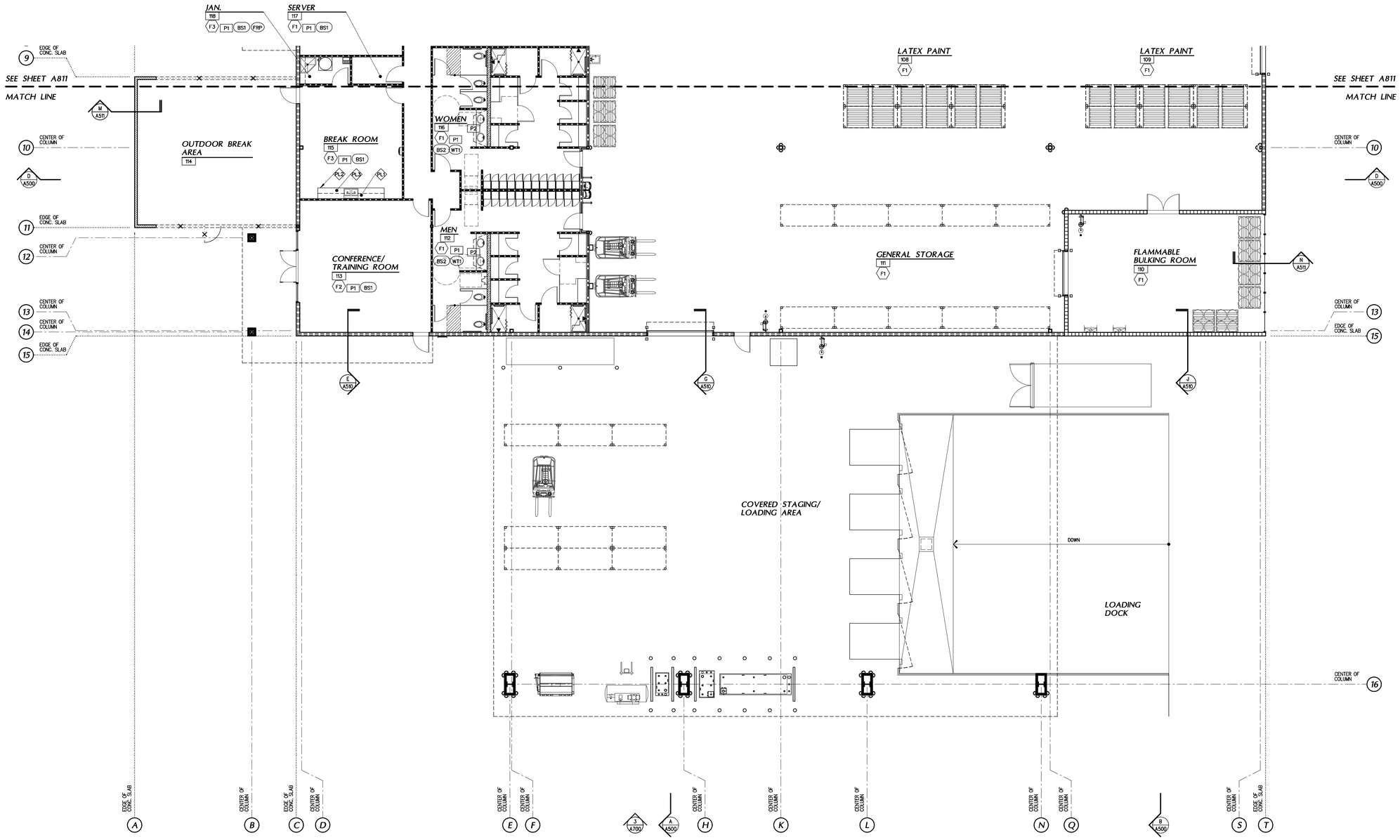
KERN COUNTY
SPECIAL WASTE
FACILITY

SEC OF DOWNING AVE
& WEAR ST
BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION
1 5-27-25	BUILDING DEPARTMENT COMPLIANCE
2 8-18-25	BUILDING DEPARTMENT COMPLIANCE
3 10-30-25	BUILDING DEPARTMENT COMPLIANCE
4 07-08-26	ADDENDUM #2
5 07-29-26	ADDENDUM #5
6 08-20-26	ADDENDUM #9

JOB 7005	
DP AC/JV	A811C
PM GJF	



N

ENLARGED FINISH PLAN - SOUTH

1/8"

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 – "JORDAN TAYLOR" CHAIN OPERATED CLUTCH ROLLER SHADES w/ ANODIZED CURVED CASSETTE AND ECO SUN SCREEN 3% OR APPROVED EQUAL. 5
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 (SCHIEN 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)

FLOOR FINISH SCHEDULE

5

F1 POLYURETHANE CONCRETE FLOOR SYSTEM
- MANUFACTURER: PETRA
- PRODUCT: PRIMERS AND SEALERS
- DESIGN NAME: XTRAKOTE SEALER
- COLOR: CLEAR
- SIZE: 12-16 MIL COATING SYSTEM

F2 LUXURY VINYL TILE
- MANUFACTURER: "MILLIKEN"
- COLLECTION: HIGH GROUND
- DESIGN NAME: THICKET – HG180

F3 SHEET VINYL w/ 6" COVE BASE
- MANUFACTURER: "BEAUFLOR"
- COLLECTION: XTREME
- COLOR: MIRA 970M

WALL BASE

BS1 VINYL BASE
- MANUFACTURER: FLEXCO
- COLOR: 014 MEDIUM GRAY

BS2 WALL BASE PROFILE – FIELD SEE DETAIL 22/A01
- MANUFACTURER: SCHLUTER SYSTEMS
- COLLECTION: DESIGNABLE SL
- MATERIAL: STAINLESS STEEL V2A
- FINISH: BRUSHED SS
- HEIGHT: 4 3/8"

5

WALL FINISH

6 4

FRP FRP – FIELD
- MANUFACTURER: VALTO
- STYLE: GLASSBOARD
- COLOR: WHITE
- FINISH: SMOOTH
- TRIM: MATCH COLOR

WT1 WALL TILE
- MANUFACTURER: BEDROSIANS
- COLLECTION: CLOE CERAMIC TILE
- COLOR: GREEN
- SIZE: 2.5"x8" RECTANGLE

GROUT
- MANUFACTURER: CUSTOM BUILDING PRODUCTS
- STYLE: FUSION PRO
- COLOR: #642 ASH

5

PAINT

P1 PAINT – FIELD
- MANUFACTURER: THROUGHOUT U.N.O.
- STYLE: "SHERWIN – WILLIAMS"
- COLOR: EGG SHELL TOQUE WHITE – SW 7003

P3 PAINT – ACCENT 1
- MANUFACTURER: "SHERWIN – WILLIAMS"
- STYLE: EGG SHELL
- COLOR: TEMPE STAR – SW 6229

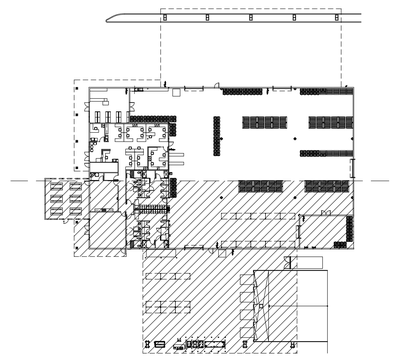
CABINETS / COUNTER TOPS

PL1 PLASTIC LAMINATE – VERTICAL SURFACE
- MANUFACTURER: "WILSONART"
- COLOR: ASIAN SAND
- FINISH: MATTE

PL2 PLASTIC LAMINATE – VERTICAL SURFACE
- MANUFACTURER: "WILSONART"
- COLOR: ASIAN NIGHT
- FINISH: MATTE

PL3 QUARTZ
- MANUFACTURER: "WILSONART"
- COLOR: CALACATTA OLYMPOS – B4067
- FINISH: POLISHED

4



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

LICENSED ARCHITECT GREGORY FRANK NO. C-31980 RENEWAL 8/31/2027 STATE OF CALIFORNIA

A NEW BUILDING FOR:

KERN COUNTY PUBLIC WORKS

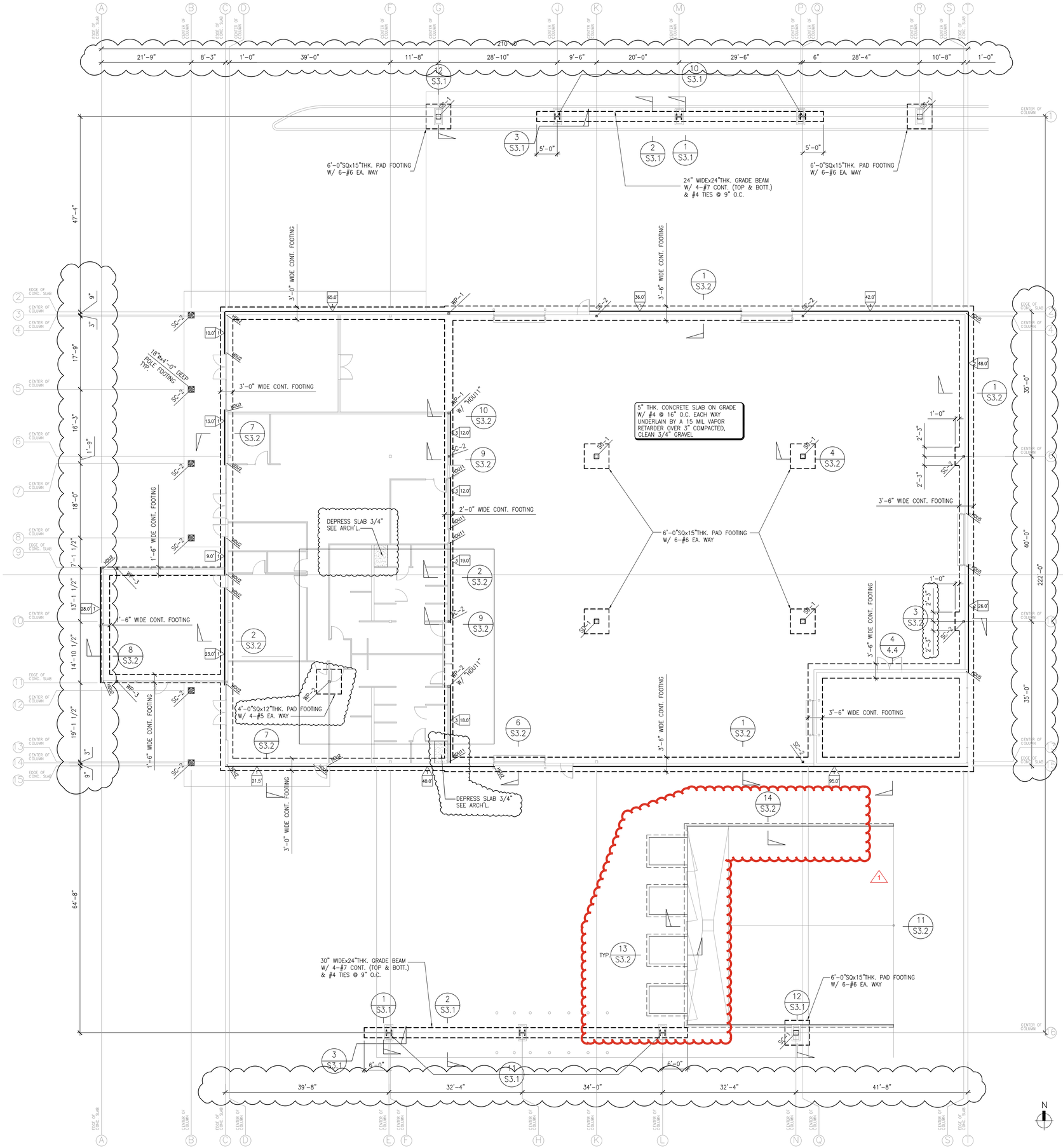
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST BAKERSFIELD, CALIFORNIA

DATE	ISSUED FOR

REVISION	DESCRIPTION
1 5-27-25	BUILDING DEPARTMENT COMPLIANCE
2 9-16-25	BUILDING DEPARTMENT COMPLIANCE
3 10-30-25	BUILDING DEPARTMENT COMPLIANCE
4 07-08-26	ADDENDUM #2
5 07-29-26	ADDENDUM #5
6 08-20-26	ADDENDUM #9

JOB 7005	
DP AC/JV	A812C
PM GJF	



WOOD POST SCHEDULE	
WP-1	5 1/4"x7" PSL POST
WP-2	5 1/4"x5 1/4" PSL POST
WP-3	6"x4" POST

STEEL COLUMN SCHEDULE	
SC-1	HSS7x7x3/8
SC-2	HSS5x5x3/8

NOTES:

1. VERIFY ALL DIMENSION, SLAB DEPRESSIONS, OPENINGS, CURBS, WITH ARCHITECTURAL DRAWINGS.
2. HOLDOWNS SHALL BE SECURED IN PLACE PRIOR TO FOOTING INSPECTION.
3. HOLDOWNS SHALL BE TIGHTENED JUST PRIOR TO COVERING THE WALL FRAMING.
4. 3 / 12.0 — UPPER NUMBER INDICATES THE TYPE OF SHEAR PANEL PER 3/S1.3; LOWER NUMBER INDICATES MINIMUM LENGTH OF SHEAR PANEL PER SHEAR PANEL SCHEDULE. WHEN NONE INDICATED, USE TYPE AT EXTERIOR STUD WALL ABOVE AND/OR BELOW OPENING, ALL AROUND BUILDING, AND TO PROVIDE SMOOTH TRANSITION ON FINISH.
5. HDU5 — INDICATES SHEAR WALL HOLDOWN ANCHOR. SEE PLAN AND DETAILS 2/S1.3
6. ALL STUDS WALLS SHALL BE SIZES AS SHOWN IN THE DETAILS.
7. HOLDOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.

FOUNDATION PLAN

SCALE: 3/32"=1'-0"

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WHEELER & GRAY
CONSULTING ENGINEERS
1333 S. MAYFLOWER AVE., SUITE 320
MONROVIA, CALIFORNIA 91016
TEL. (626) 432-5850 FAX (626) 432-5858

REGISTERED PROFESSIONAL ENGINEER
LES E. SCHULZ
No. SE2570
Exp. 3-31-26
STRUCTURAL
STATE OF CALIFORNIA

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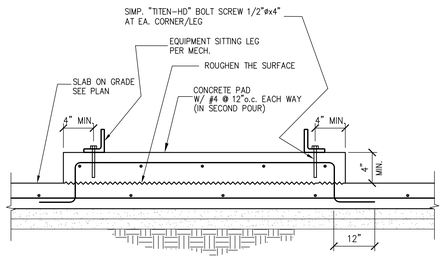
KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

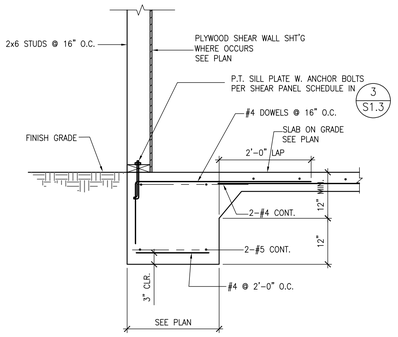
DATE	ISSUED FOR

REVISION	DESCRIPTION
1 8/24/26	ADDENDUM #9

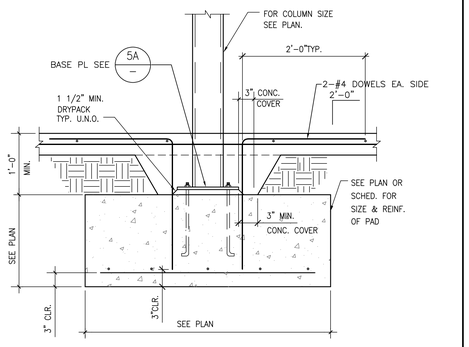
JOB	
DP	
PM	
	S2.1A



CONCRETE PAD



12 DETAIL 8



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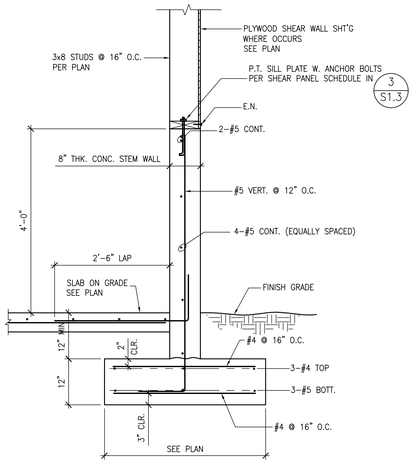
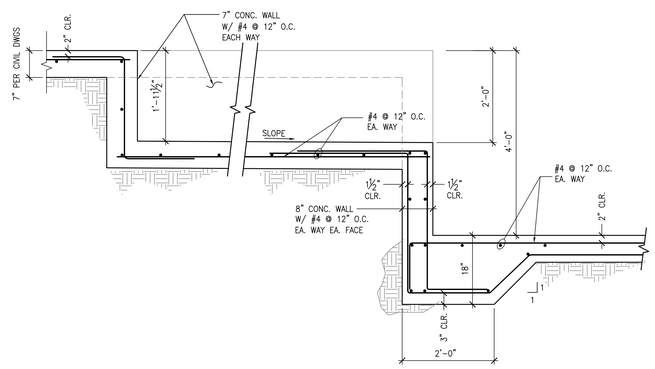
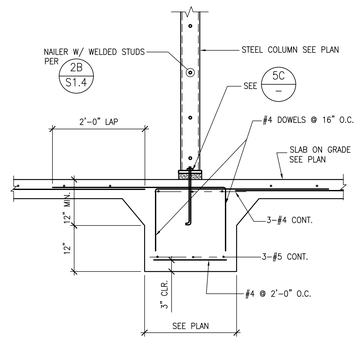


DETAIL 1



DOCK LEVELER SECTION

13 DETAIL 9



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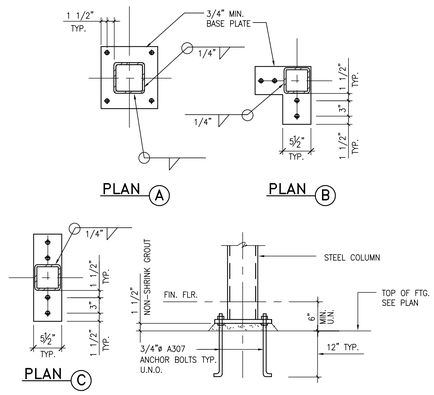

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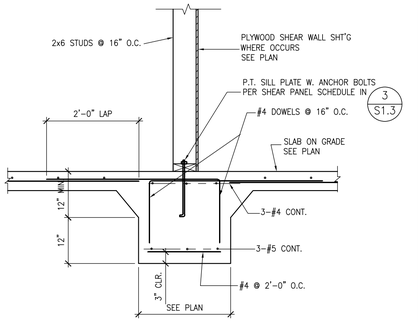
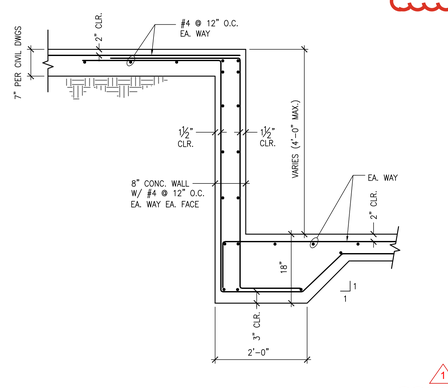
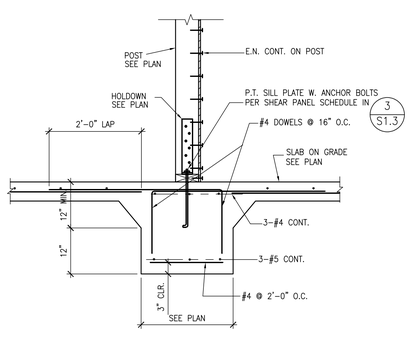


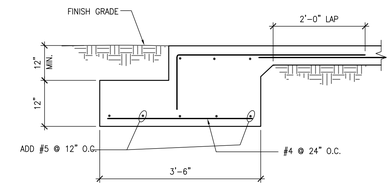
DETAIL 3



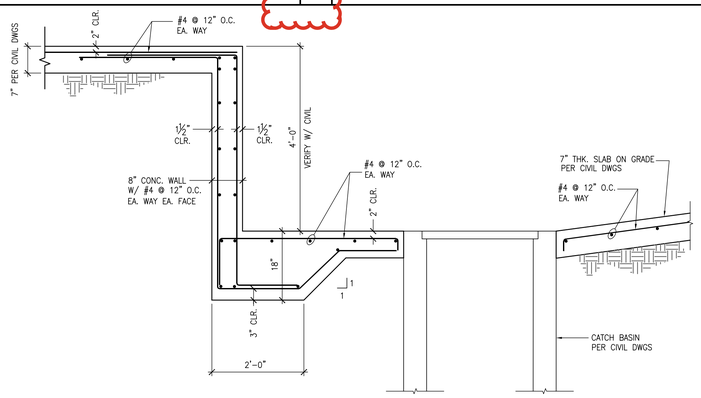
DETAIL 14



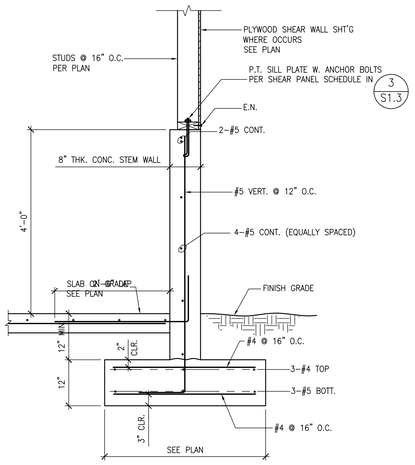
DETAIL 10



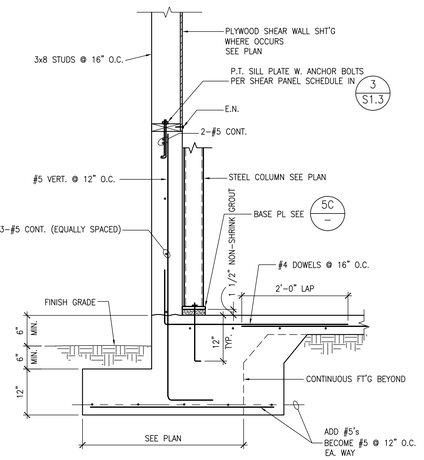
DETAIL 6



DETAIL 11



DETAIL 7



DETAIL 3

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A NEW BUILDING FOR:

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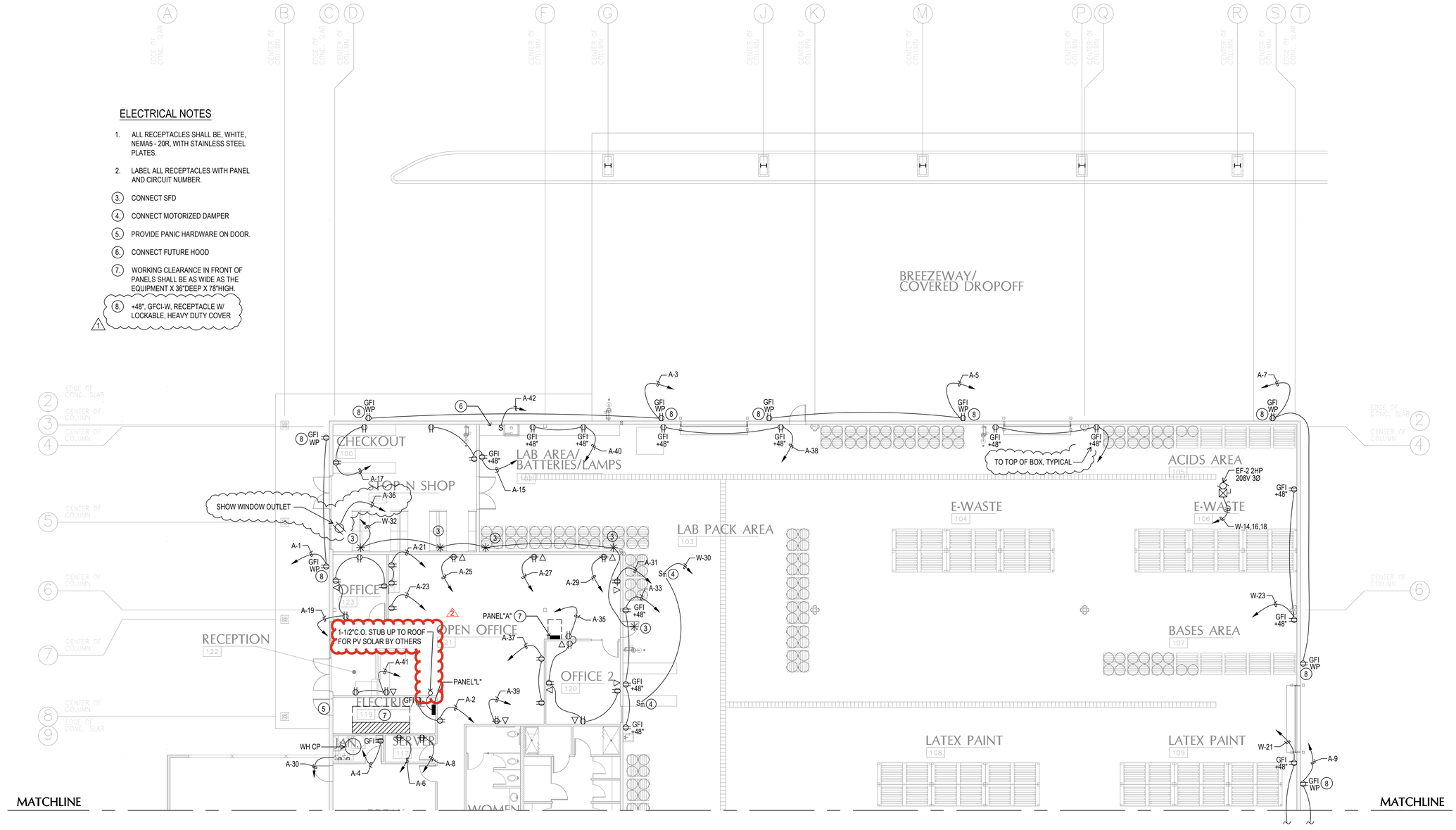
DATE	ISSUED FOR

REVISION	DESCRIPTION
1 8/24/26	ADDENDUM #9

JOB	
DP	S3.2A
PM	

ELECTRICAL NOTES

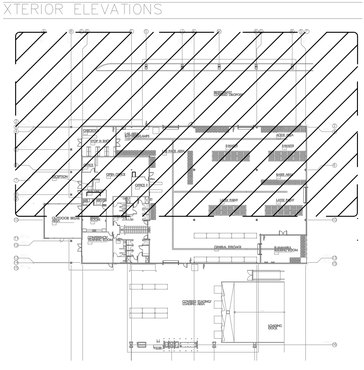
1. ALL RECEPTACLES SHALL BE, WHITE, NEMA5 - 20R, WITH STAINLESS STEEL PLATES.
2. LABEL ALL RECEPTACLES WITH PANEL AND CIRCUIT NUMBER.
3. CONNECT SFD
4. CONNECT MOTORIZED DAMPER
5. PROVIDE PANIC HARDWARE ON DOOR.
6. CONNECT FUTURE HOOD
7. WORKING CLEARANCE IN FRONT OF PANELS SHALL BE AS WIDE AS THE EQUIPMENT X 36"DEEP X 78"HIGH.
8. +48", GFCI-W. RECEPTACLE W/ LOCKABLE, HEAVY DUTY COVER



ENLARGED POWER FLOOR PLAN - NORTH

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

XTERIOR ELEVATIONS



KEY PLAN N.S.

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BAKERSFIELD, CALIFORNIA

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REVISION	DESCRIPTION
1 08/05/26	ADDENDUM #8
2 08/24/26	ADDENDUM #9

JOB	E211B
DP	
PM	

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E19083
23759
5600 MING AVENUE, SUITE 251
BAKERSFIELD, CA 93309
(661) 831-7851
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net

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 SIZE PER THE NOTE BELOW THE IRRIGATION SLEEVE SIZE CHART. 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. (1)

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 SIZE PER THE IRRIGATION SLEEVE SIZE CHART IN AREAS WHERE PIPE CROSSING WILL OCCUR. (1)

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. (1)

ALL PIPING, MAINLINE AND LATERAL, AND WIRE SHALL BE SLEEVED UNDER PAVING. ALL SLEEVES TO BE SIZED PER THE IRRIGATION SLEEVE SIZE CHART. 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	1,906	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	2,106	520	16,894
9	0.2	Low	Bubbler	0.81	0.2	60	15	481
10	0.2	Low	Drip	0.81	0.2	2,500	617	20,054
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	7,323	1,808	58,743
14	0.2	Low	Drip	0.81	0.2	9,510	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
Sitewide 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

				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total:
Project Name	KCSWF		ETo/Mo	1.0	1.8	3.5	4.7	6.6	7.7	8.5	7.3	5.3	3.5	1.6	0.9	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

				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total:
Project Name	KCSWF		ETo/Mo	1.0	1.8	3.5	4.7	6.6	7.7	8.5	7.3	5.3	3.5	1.6	0.9	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															

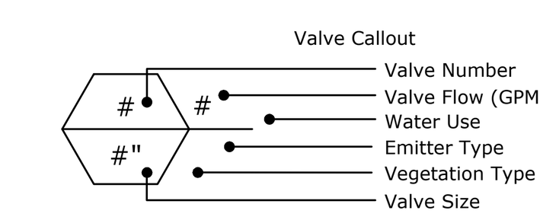
NOTE TO PROPERTY OWNER - The above irrigation schedule tells you how often and how long to run your irrigation system. Your irrigation should be programmed to run a maximum of four (4) days per week for each valve between the hours of 7:00 PM and 10:00 AM. Depending on the soil type and slope of your 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	PSI
25 50 10 20	HUNTER PROS-04-CV-PCN 10 FLOOD BUBBLER, 4IN. POP-UP, FACTORY INSTALLED DRAIN CHECK VALVE.	68	30
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	30

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 4.0 6.0	HUNTER HEB-20-CV ON A HUNTER IH-RISER 05 1/2IN. FEMALE THREADED POINT SOURCE DRIP EMITTER. COLOR CODED EMITTERS FOR FLOW RATES OF 0.5 GPH - 6.0 GPH. RECOMMENDED PRESSURE FROM 20 PSI-50 PSI. OPTIONAL DIFFUSER CAP (HE) AVAILABLE FOR HIGHER FLOWS AND CLOG PROTECTION. ON IH-18 RISER (2)	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 I2CF-2400-SS 24 STATION OUTDOOR MODULAR CONTROLLER. WITH TWO ICM-800 MODULE. COMMERCIAL USE. STAINLESS STEEL CABINET. TO BE LOCATED ON THE EXTERIOR OF THE BUILDING. (2)	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	14,339 LF
	IRRIGATION MAINLINE: PVC SCHEDULE 40	2,193 LF
	PIPE SLEEVE: PVC SCHEDULE 40	1,055 LF



CRITICAL ANALYSIS

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P.O.C. NUMBER: 01
Water Source Information: CONTRACTOR SHALL VERIFY STATIC PSI PRIOR TO BEGINNING WORK. IF PSI VARIES FROM THAT LISTED BELOW, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.

FLOW AVAILABLE
Water Meter Size: 1"
Flow Available 37.5 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 79 PSI
Elevation Change: 5.00 ft
Service Line Size: 3"
Length of Service Line: 20 ft
Pressure Available: 77 PSI

DESIGN ANALYSIS
Maximum Station Flow: 9.35 GPM
Flow Available at POC: 37.5 GPM
Residual Flow Available: 28.15 GPM

Critical Station: 17
Design Pressure: 30 PSI
Friction Loss: 3.02 PSI
Fittings Loss: 0.3 PSI
Elevation Loss: 0 PSI
Loss through Valve: 9.7 PSI
Pressure Req. at Critical Station: 43.0 PSI
Loss for Fittings: 0.2 PSI
Loss for Main Line: 1.97 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 12.1 PSI
Loss for Master Valve: 0.52 PSI
Loss for Water Meter: 0.47 PSI
Critical Station Pressure at POC: 58.3 PSI
Pressure Available: 77 PSI
Residual Pressure Available: 18.7 PSI

NORTH

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

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

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

LICENSED LANDSCAPE ARCHITECT
MICHAEL O. MCDONNELL
NO. LA 5668
Signature
NOV. 30, 2027
Renewal Date
JULY 21, 2026
Date
STATE OF CALIFORNIA

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KERN COUNTY PUBLIC WORKS

KERN COUNTY SPECIAL WASTE FACILITY

SEC OF DOWNING AVE & WEAR ST
BAKERSFIELD, CALIFORNIA

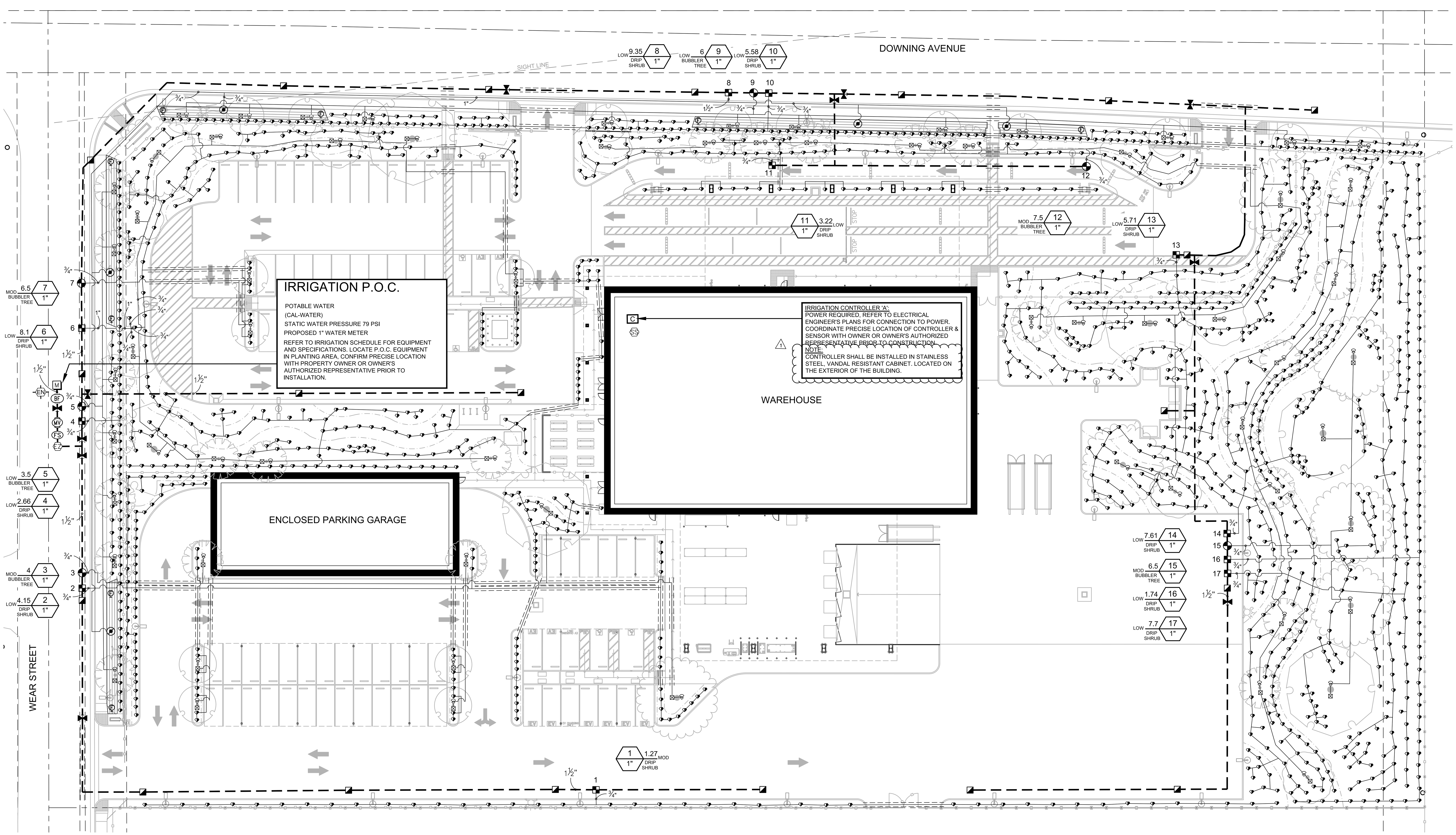
DATE	ISSUED FOR

REVISION	DESCRIPTION
07/21/2026 (1)	ADDENDUM #5
08/27/2026 (2)	ADDENDUM #9

JOB 1737800
DP TE
PM TE

LI.00B

4B



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 10 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
F	RAIN BIRD MDCFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.	8
0.5 1.0 2.0 4.0 6.0	HUNTER HEB-20-CV ON A HUNTER IH-RISER 05 1/2IN. FEMALE THREADED POINT SOURCE DRIP EMITTER. COLOR CODED EMITTERS FOR FLOW RATES OF 0.5 GPH - 6.0 GPH. RECOMMENDED PRESSURE FROM 20 PSI-50 PSI. OPTIONAL DIFFUSER CAP (HE) AVAILABLE FOR HIGHER FLOWS AND CLOG PROTECTION. ON IH-18 RISER (2)	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 I2CF-2400-SS 24 STATION OUTDOOR MODULAR CONTROLLER. WITH TWO ICM-800 MODULE. COMMERCIAL USE. STAINLESS STEEL CABINET. TO BE LOCATED ON THE EXTERIOR OF THE BUILDING. (2) (1)	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	14,339 LF
	IRRIGATION MAINLINE: PVC SCHEDULE 40	2,193 LF
	PIPE SLEEVE: PVC SCHEDULE 40	1,055 LF

Valve Callout
- # — Valve Number
- # — Valve Flow (GPM)
- Water Use
- Emitter Type
- Vegetation Type
- #" — Valve Size

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