



CODE INFORMATION:

APPLICABLE CODES & REGULATIONS:
 BUILDING CODE: 2022 CALIFORNIA BUILDING CODE
 PLUMBING CODE: 2022 CALIFORNIA PLUMBING CODE
 ELECTRICAL CODE: 2022 CALIFORNIA ELECTRICAL CODE
 MECHANICAL CODE: 2023 NFPA 70
 FIRE PROTECTION: 2022 CALIFORNIA FIRE CODE
 ENERGY CODE: 2022 CALIFORNIA ENERGY CODE
 ACCESSIBILITY CODE: 2019 TITLE 24

CODE CLASSIFICATION:
 A. OCCUPANCY GROUP: A-2
 B. CONSTRUCTION CLASSIFICATION: TYPE V-B
 C. AUTOMATIC FIRE SUPPRESSION SYSTEM INSTALLED: YES

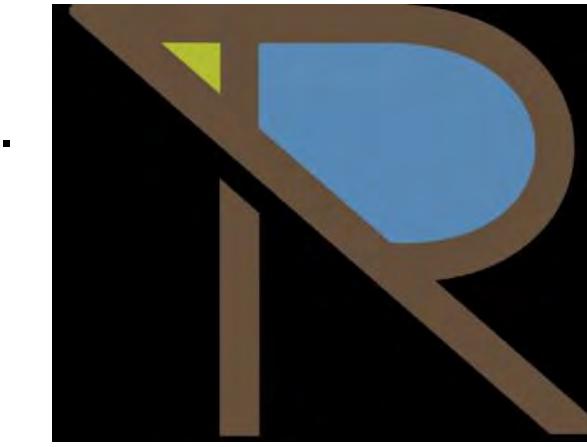
TRAVEL DISTANCE:
 ALLOWED TRAVEL DISTANCE: 250 FT
 ACTUAL TRAVEL DISTANCE: 103'-0" FT MAX

OWNER:
MISSION VILLAGE SHOPPING CENTER II, L.P.

PROPERTY MANAGEMENT:
REGIONAL PROPERTIES, INC

TENANT:

PANERA BREAD BAKERY-CAFE #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508



ENTITLEMENTS

INDEX OF DRAWINGS:

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 G131 LIFE SAFETY PLAN
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 A003 SITE PERSPECTIVES
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 A005 BUILDING SECTIONS & SIGHT LINE STUDY
 A101 BUILDING FLOOR PLAN
 A140 BUILDING ROOF PLAN
 A200 BUILDING ELEVATIONS
 A201 BUILDING ELEVATIONS

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 M2.3 MECHANICAL SPECIFICATIONS

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 E.05 SITE POWER PLAN
 E1.00 GROUND FLOOR LIGHTING PLAN
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 E6.00 LIGHTING CUT SHEETS
 E6.01 LIGHTING CUT SHEETS
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 L-2 PLANT IMAGE BOARD

CIVIL:
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 2 of 4 PRELIMINARY GRADING PLAN
 3 of 4 SITE SECTIONS
 4 of 4 PRELIMINARY COMPOSITE UTILITY PLAN

PROPERTY INFORMATION

OWNER:
MISSION VILLAGE SHOPPING CENTER II, L.P.
 9150 WILSHIRE BLVD, SUITE 210
 BEVERLY HILLS, CA 90212

PROPERTY MANAGEMENT:
REGIONAL PROPERTIES, INC
 9150 WILSHIRE BLVD, SUITE 210
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PANERA BREAD DEVELOPMENT MANAGER:
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PROTOTYPE INFORMATION:

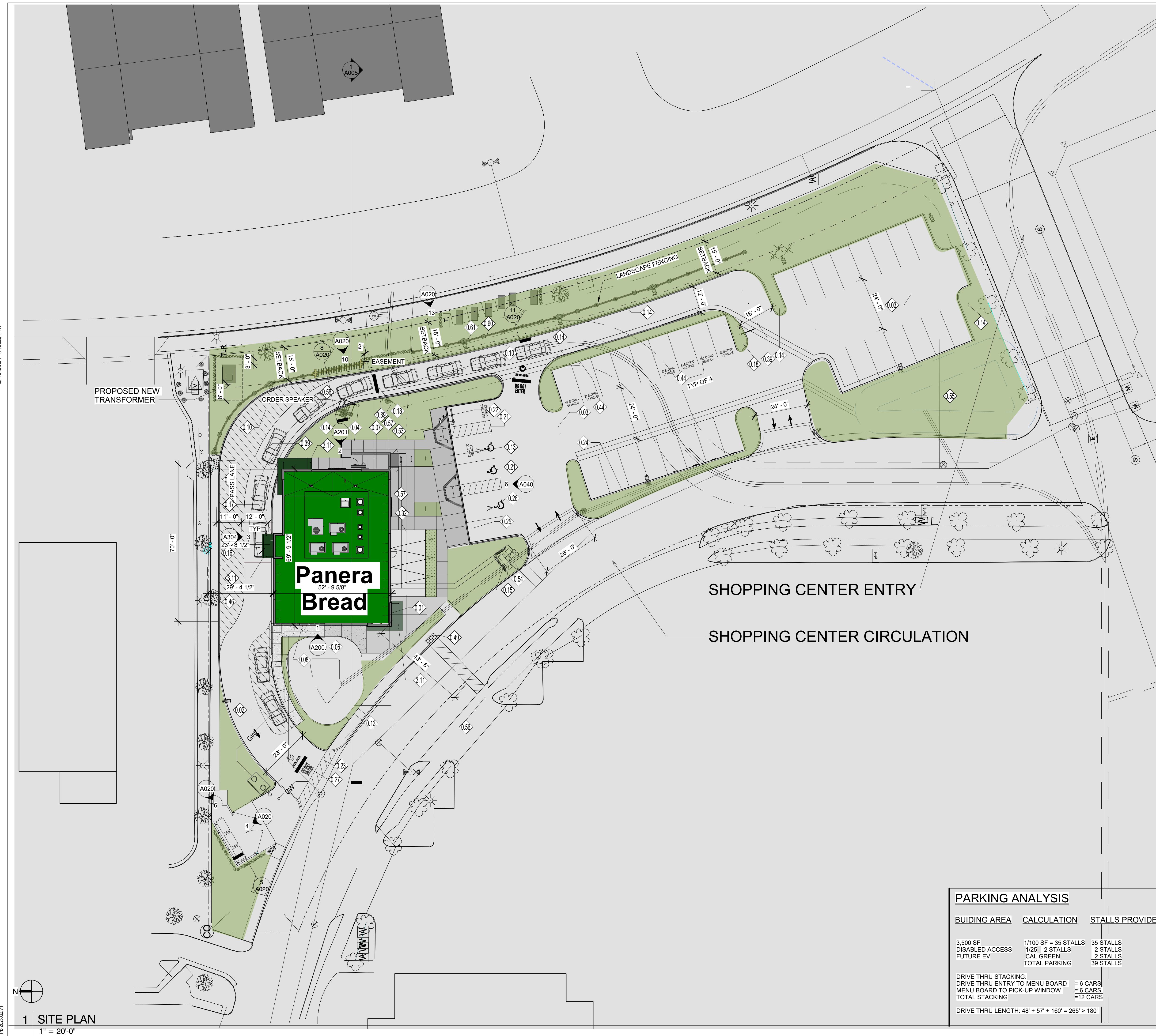
THIS SET OF DOCUMENTS INCORPORATES ALL REVISIONS
 THROUGH PROTOTYPE UPDATE #2022-Q2.V1

LANDLORD APPROVAL:

NAME	DATE
SIGNATURE	DATE

ENTITLEMENTS COVER SHEET

Project Number: Sheet Number:
G000
 Drawn By:
 Author:
 Issue Date:
 08/29/2023
 DFM: DM: CPM:
 DPM: DM: CPM:



Bakery-Cafe #:

6360

SYSTEM: NEXT-GEN

Project Team:

AO
Architecture.
Design.
Relationships.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Consultant Copyright Placeholder

No.	Description	Date

ARCHITECTURAL SITE PLAN
A002

Project Number: Sheet Number:
6360
Drawn By:
Author:
Issue Date:
08/29/2023
DPM: DM: CPM:
DPM: DM: CPM:



A002



No.	Description	Date

SITE PERSPECTIVES

Project Number: Sheet Number:

6360

Drawn By:

Author:

Issue Date:

08/29/2023

DPM:

DM:

CPM:

A003

DPM:

DM:

CPM:



01 SITE OVERALL VIEW

SCALE: NONE



02 SITE SHOPPING CENTER VIEW

SCALE: NONE



03 SITE DRIVE THRU / FENCEWALL VIEW

SCALE: NONE



04 SITE TRASH ENCLOSURE & BUILDING VIEW

SCALE: NONE



No.	Description	Date

**BUILDING
PERSPECTIVES**

Project Number: Sheet Number:

6360

Drawn By:

Author:

Issue Date:

08/29/2023

DFM:

DM:

CPM:

CPM

A004



01 | BUILDING BIRDSEYE VIEW

SCALE: NONE

24/3/2024 1:36:01 PM



02 | BUILDING FRONT VIEW

SCALE: NONE



03 | BUILDING DRIVE THRU TRELLIS VIEW

SCALE: NONE



04 | BUILDING DRIVE THRU WINDOW VIEW

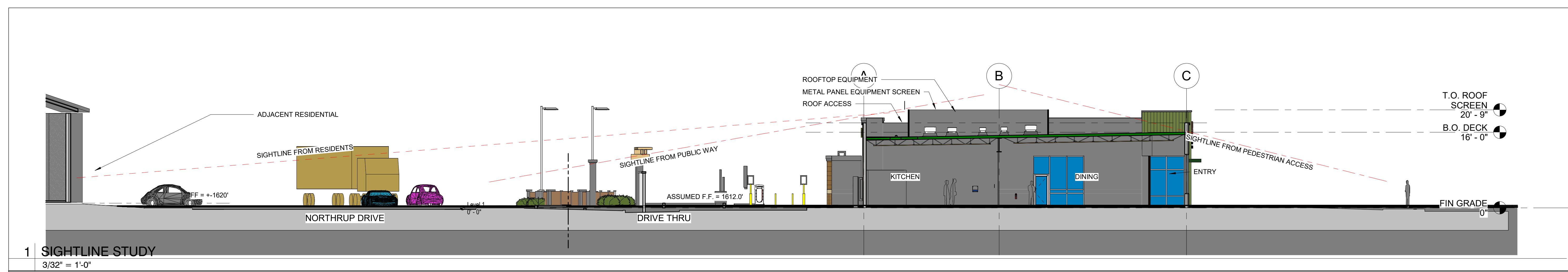
SCALE: NONE



05 | BUILDING PATIO VIEW

SCALE: NONE

PR 2023 02 01



Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508



Consultant Copyright Placeholder

No.	Description	Date

BUILDING SECTIONS & SIGHTLINE STUDY

Project Number: Sheet Number:

6360

Drawn By:

Author:

Issue Date:

08/29/2023

DPM:

DPM

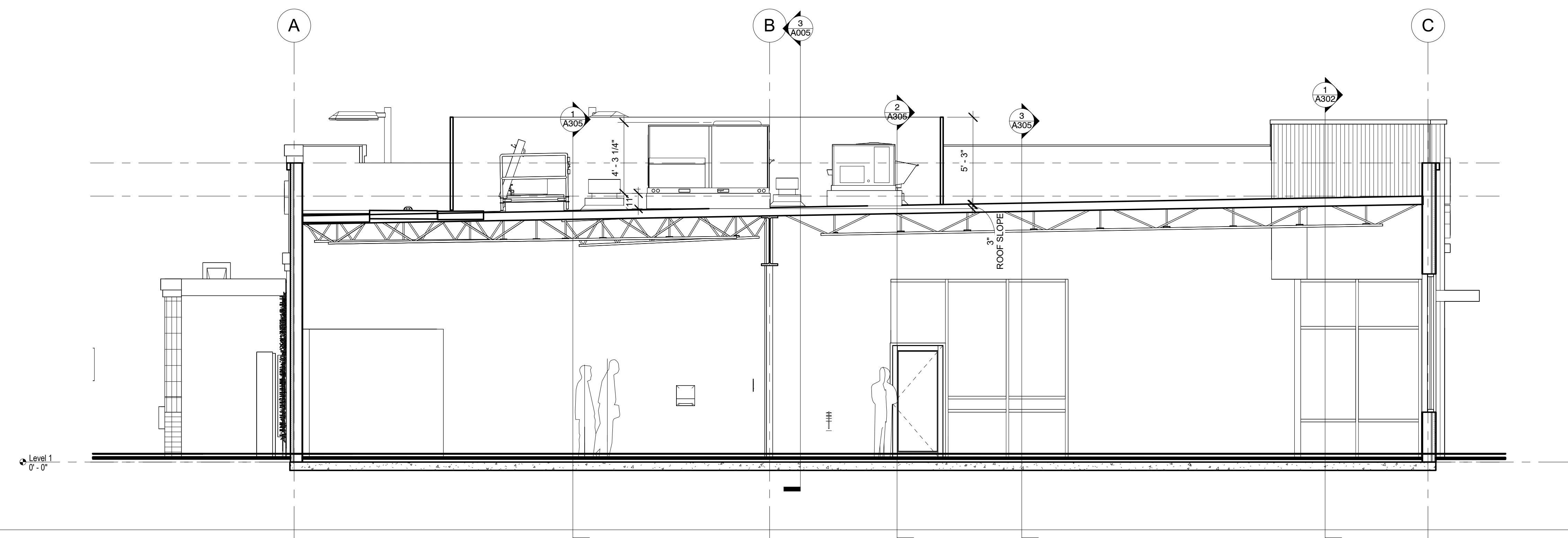
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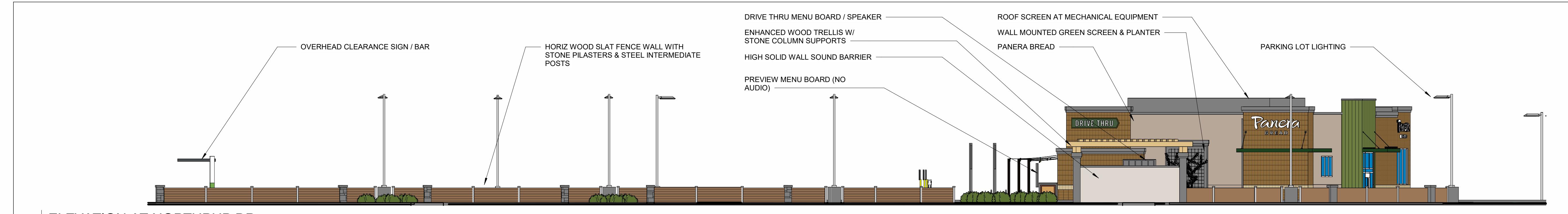
CPM:

DM:

CPM:

A005





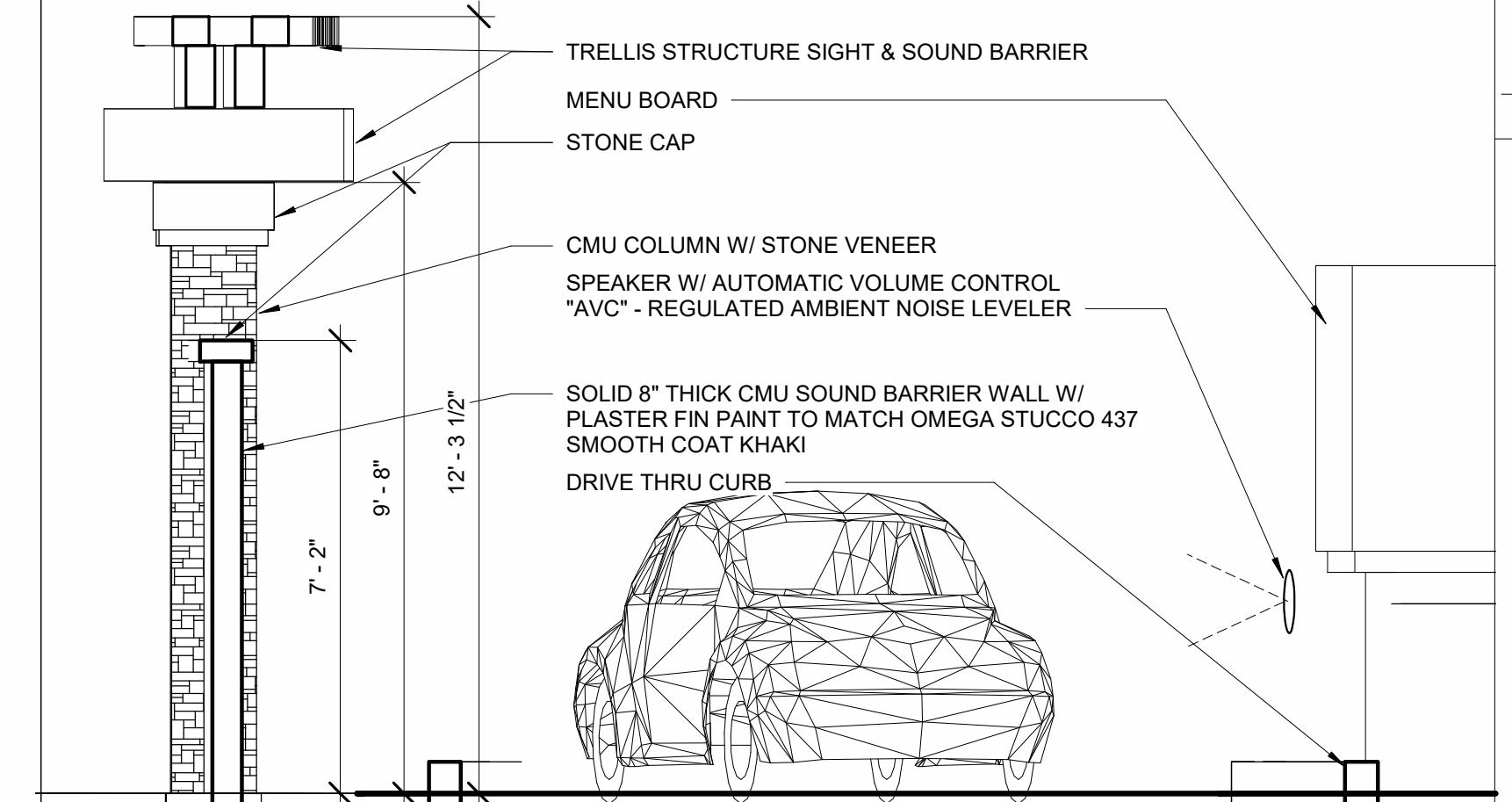
13 | ELEVATION AT NORTHRUP DR REFER TO RENDERING & MATERIALS BOARD FOR TRUE COLORS

3/32" = 1'-0"

12/29/2024 11:49:40 AM

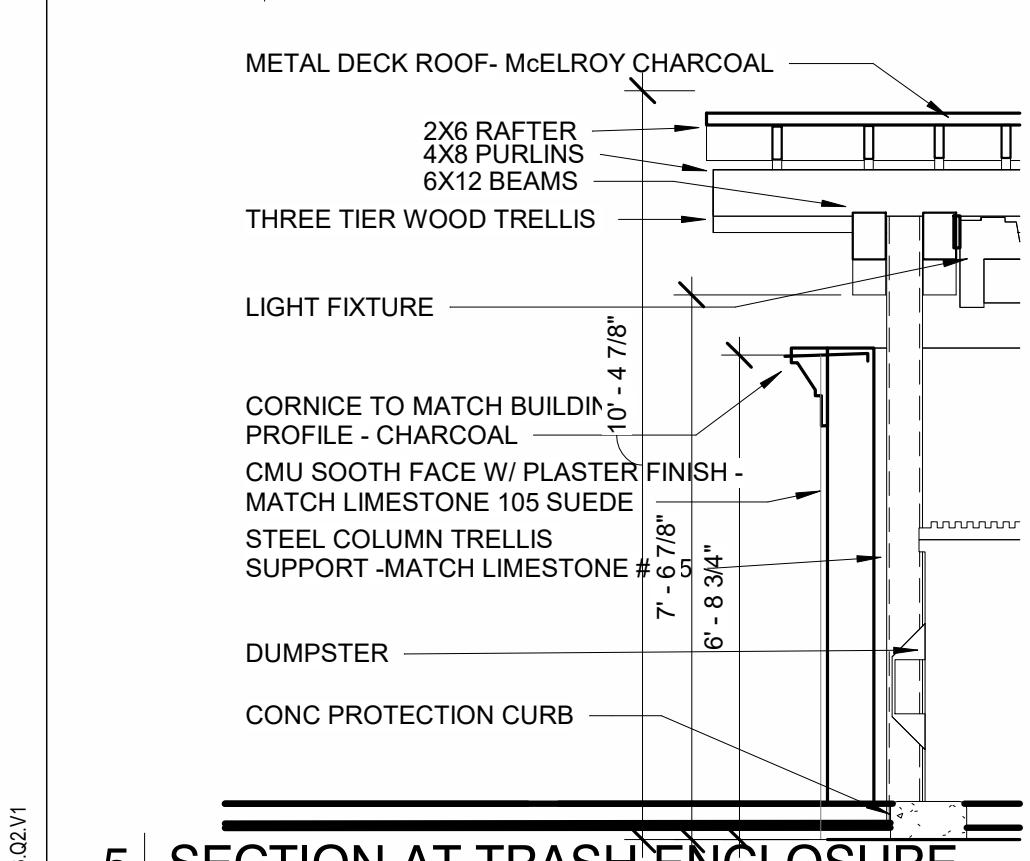
11 | FENCEWALL DETAIL

1" = 1'-0"



8 | SECTION AT SOUND WALL/TRELLIS

3/8" = 1'-0"

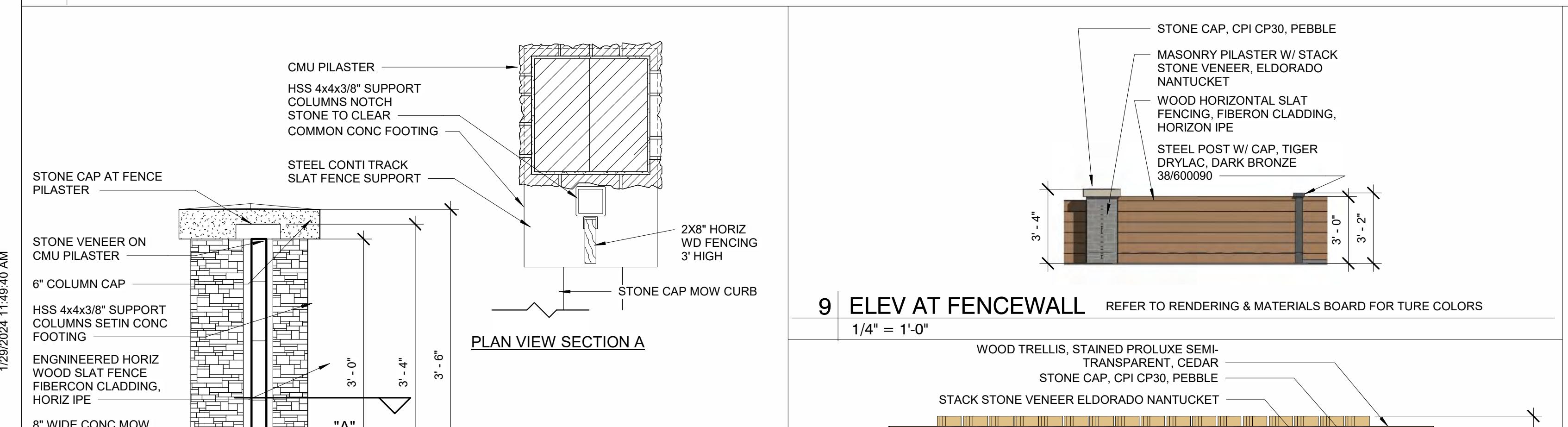


5 | SECTION AT TRASH ENCLOSURE

3/8" = 1'-0"

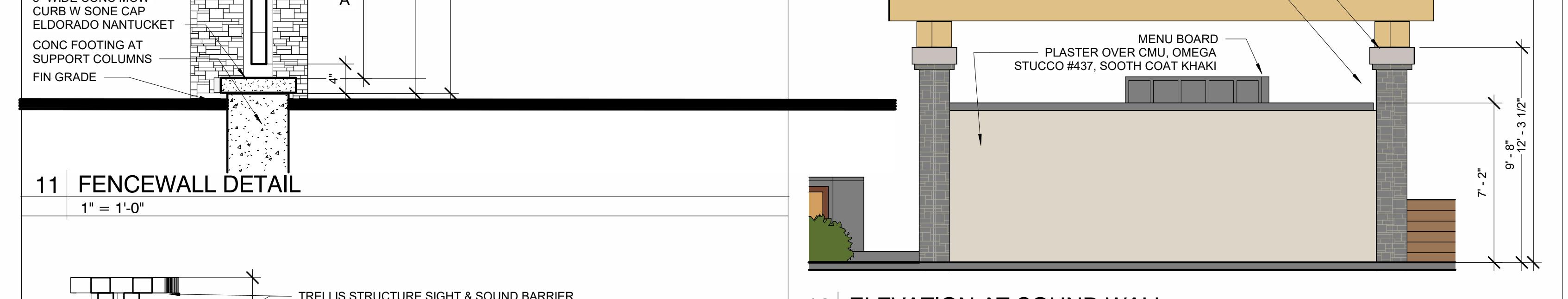
PR 2023 02 21

PR-2023-001571 (MOD, CUP, DR) EXHIBIT 8 PLANS



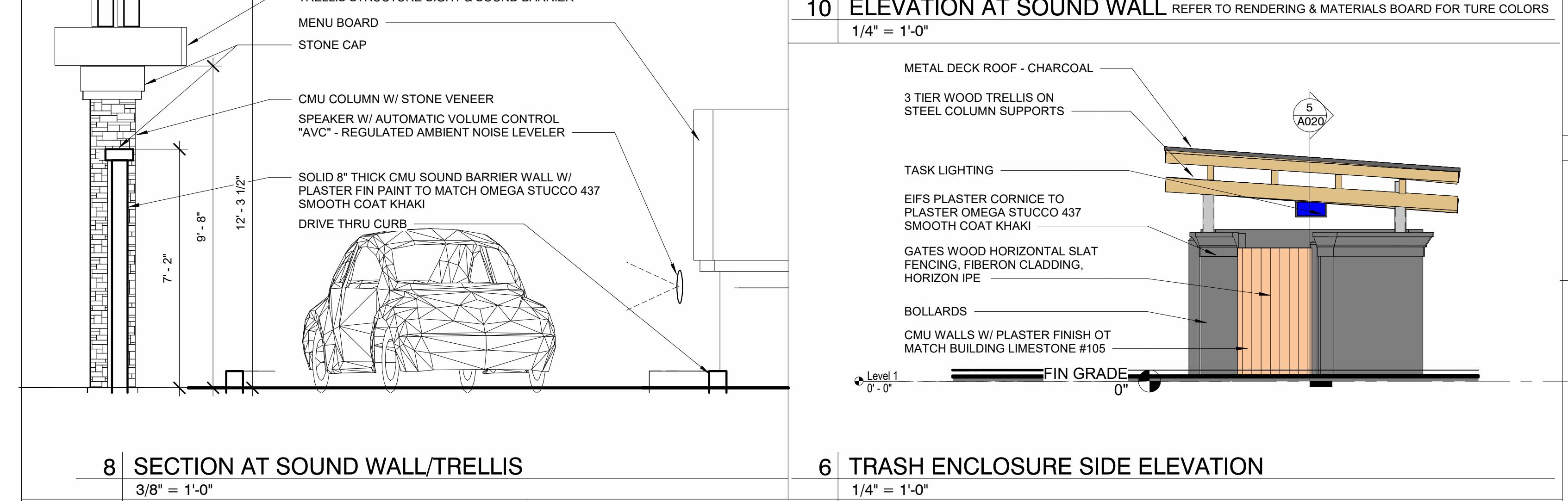
9 | ELEV AT FENCEWALL REFER TO RENDERING & MATERIALS BOARD FOR TRUE COLORS

1/4" = 1'-0"



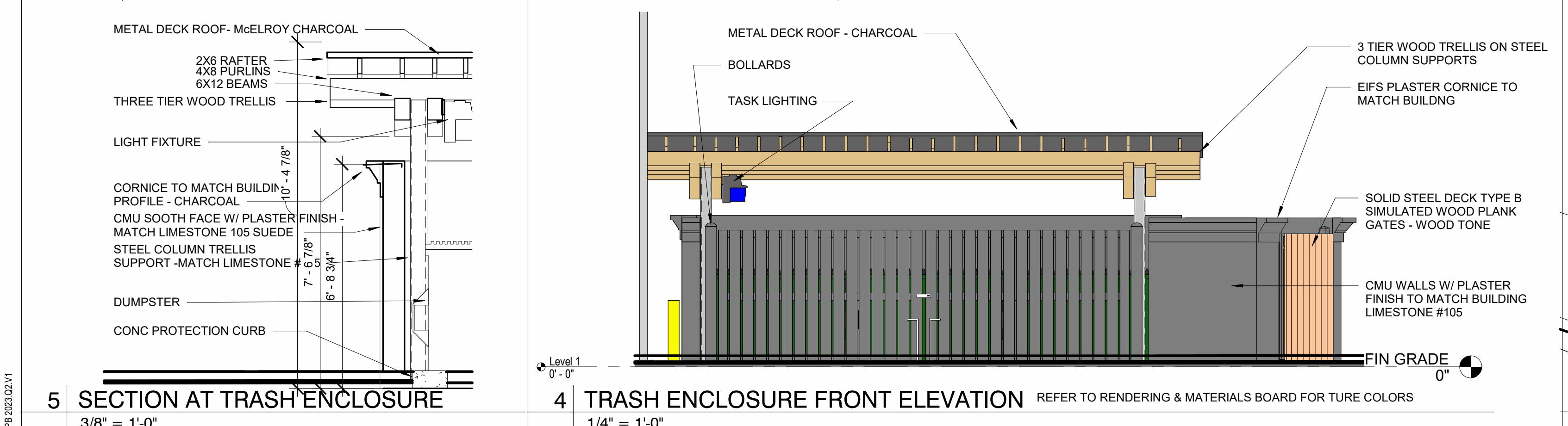
10 | ELEVATION AT SOUND WALL REFER TO RENDERING & MATERIALS BOARD FOR TRUE COLORS

1/4" = 1'-0"



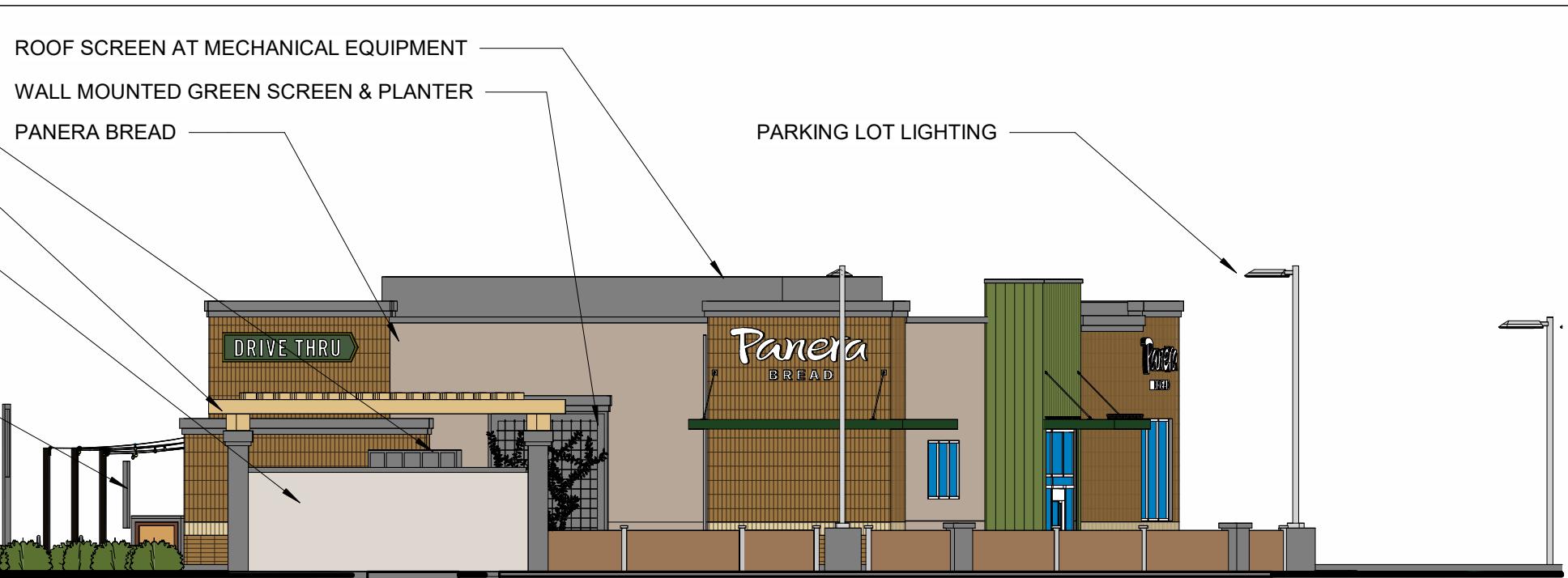
6 | TRASH ENCLOSURE SIDE ELEVATION

1/4" = 1'-0"



4 | TRASH ENCLOSURE FRONT ELEVATION REFER TO RENDERING & MATERIALS BOARD FOR TRUE COLORS

1/4" = 1'-0"



13 | ELEVATION AT NORTHRUP DR REFER TO RENDERING & MATERIALS BOARD FOR TRUE COLORS

3/32" = 1'-0"

12/29/2024 11:49:40 AM

Professional Seal:

Project Title:

Project Number:

Sheet Number:

Drawing Number:

Scale:

Date:

Comments:

Drawing Number:

Scale:

Date:

GENERAL NOTES:

A. GC SHALL COORDINATE THE ANCHORING AND INSTALLATION OF THE ROOF TOP CONDENSER UNITS WITH THE FOOD SERVICE EQUIPMENT.
B. REFER TO STRUCTURAL AND MEP DRAWINGS FOR RTU/CURB ANCHORING AND INSTALLATION.

Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe #: 6360
SHELL BUILDING
 Mission Village Center
 505 E. Alessandro Blvd
 Riverside, CA 92508



Consultant Copyright Placeholder

No.	Description	Date

ROOF PLAN

Project Number: 6360 Sheet Number:

Drawn By:

Author:

Issue Date:

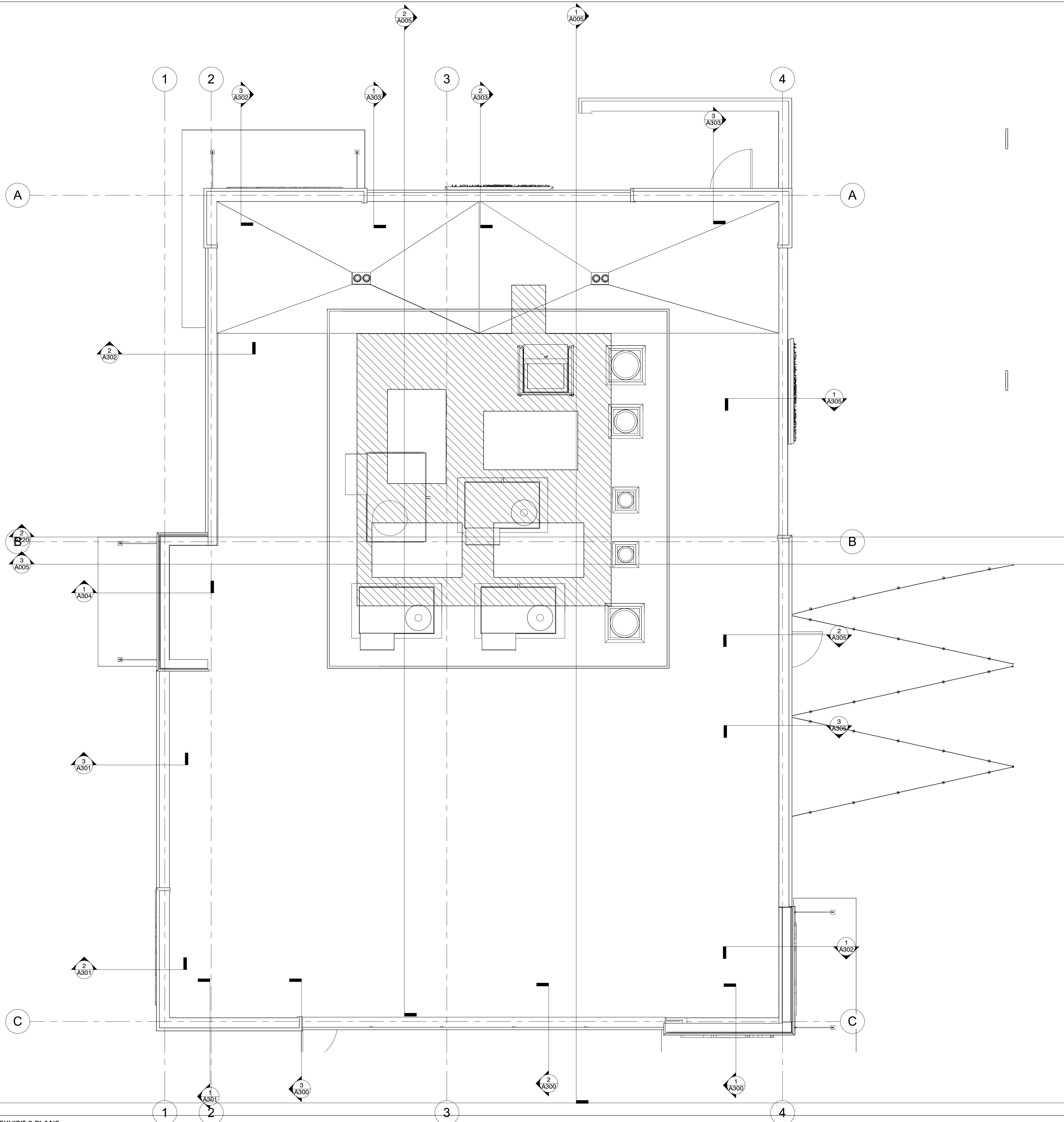
08/29/2023

DFM:

DPM:

CPM:

DM:

A140



No.	Description	Date

EXTERIOR ELEVATIONS

EXTERIOR MATERIALS

BRICK

Mortar: 025 - #58 / Terracotta



BRICK ACCENT

Mortar: 023 - #40 / Latte



FRP



BR1: Thin Brick I Utility Size	BR2: Full Brick I Utility Size
BR3: Thin Brick I Utility Size Corners	BR4: Full Brick I Std. Size
BR5: Thin Brick I Std. Size	BR6: Full Brick I Std. Size
BR7: Thin Brick I Std. Size Corners	BR8: Full Brick I Std. Size
SUPPL: Creative Materials	MATERIAL: Suede Buff
MFR: McNeal	COLR: Suede Buff
COLOR: Smitting Blend	

EIFS



SPECIALTY FINISH



SF1

SUPPL: Dryvit

MATERIAL: Limestone

STYLE: TDS Suede



SF2

SUPPL: G.C.

MATERIAL: Alum. Wood Grain

STYLE: Trex Select



SF3

SUPPL: Utility Screen

MATERIAL: Pebble Grey



AWNINGS

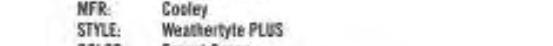


ET1

SUPPL: Awning Signage Vendor

MATERIAL: Weatherite PLUS

COLOR: Forest Green



ET2

SUPPL: Awning Signage Vendor

MATERIAL: Cooley Weatherite PLUS

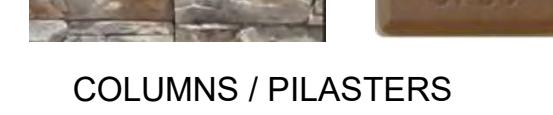
COLOR: Charcoal



SITE MATERIALS



COLUMN CAP

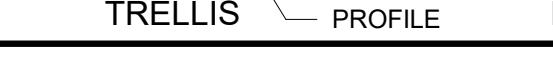


COLUMNS / PILASTERS

PILASTER



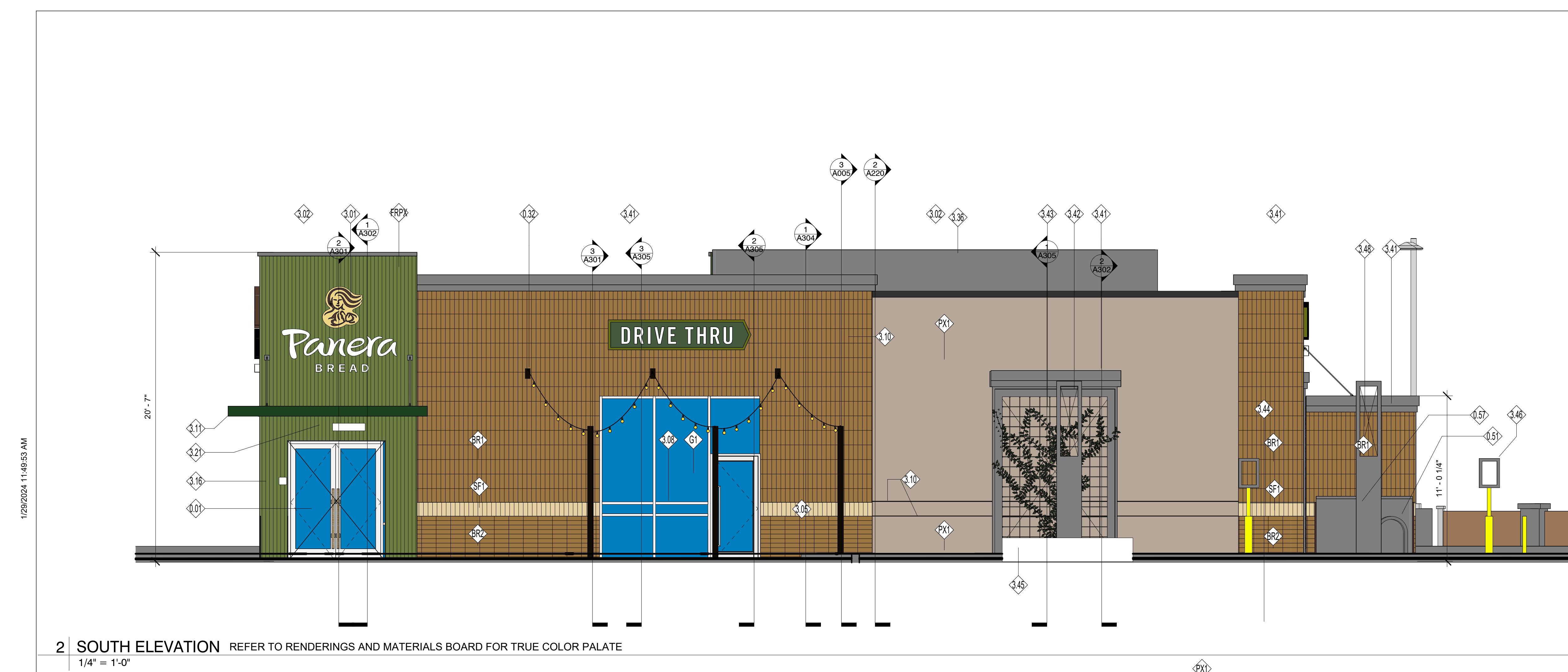
TRELLIS



FENCEWALL

KEYED NOTES

0.01 PROPOSED PANERA CAFE SPACE.
 0.32 PATIO STRING LIGHT WITH PREFABRICATED POSTS BY PANERA GC. REFER TO 9/A040.
 0.51 BIKE RACKS PROVIDED/INSTALLED BY PANERA GC. DURA BIKE RACK DL2.
 ALTERNATE: GROUND CONTROL SYSTEMS - HR100 HOOP RUNNER.
 0.57 LOCATION OF INTERNALLY ILLUMINATED CLIP LETTERS AND/OR TRADEMARK SYMBOL. PROVIDED AND INSTALLED BY TENANT SIGN VENDOR
 UNDER SEPARATE PERMIT. G.C. TO PROVIDE BLOCKING IN WALL FOR SIGN AND PROVIDE ACCESS PANEL ON BACKSIDE OF PARAPET FOR
 ACCESS AS REQUIRED. (UNDER SEPARATE SIGNAGE PERMIT)
 0.82 PRE-FINISHED METAL 2-PIECE SNAP-ON COMPRESSION COPING BY DURLAST OR SIMILAR | COLOR: CHARCOAL TO MATCH RAL 7043
 0.305 SECONDARY ENTRANCE/EXIT | REFER TO A601 & A602 FOR ADDITIONAL INFORMATION.
 0.308 ALUMINUM STOREFRONT SYSTEM WITH 1" INSULATED GLAZING BY PANERA GC. REFER TO SHEET A602 FOR FURTHER INFORMATION.
 0.310 CONTROL JOINT / JOINER REVEAL COVER WITHIN ALUM CLADDING SYSTEM PER MFG RECOMMENDATIONS. JOINER PIECE TO ALIGN WITH
 MULLION BELOW AS INDICATED.
 0.311 PRE-MANUFACTURED ALUMINUM CANOPY W/ RIBBED PANELS WITHIN UNDERSIDE. PROVIDED/INSTALLED BY PANERA G.C. | MANF:
 MANDEVILLE | COLOR: DARK GREEN. PMS 2411C, CANOPY TO INCLUDE LIGHTING, INTERNAL DRAIN (TO TIE INTO STORM), CANOPY
 UNDERSIDE TO HAVE FINISH TO MATCH SF2.
 0.316 FIRE DEPARTMENT ACCESS BOX | INSTALLED ADJACENT ENTRY DOOR. COORDINATE LOCATION WITH LOCAL FIRE DEPARTMENT.
 0.321 BUILDING ADDRESS SIGN | VERIFY SIZE, LOCATION, AND STYLE WITH LOCAL FIRE DEPARTMENT
 0.330 EXTERIOR WALL MOUNTED SPEAKER AT 10'-6" ABOVE GRADE. PROVIDED BY TENANT.
 0.331 'DRIVE THRU' SIGN AS PART OF TENANT SIGNAGE BY SIGN VENDOR. GC TO PROVIDE BLOCKING IN WALL FOR SIGN AND PROVIDE
 ACCESS PANEL ON BACKSIDE OF PARAPET FOR ACCESS AS REQUIRED
 0.336 PREMANUFACTURED RIBBED PANEL ROOF EQUIPMENT SCREENING, MFR: ROOFSCREEN MANUFACTURING, COLOR: TO MATCH P285 KENDAL
 CHARCOAL.
 0.341 EIFS. FOAM SHAPE CORNICE MECHANICALLY SUPPORTED & MOUNTED WITH EPOXY ADHESIVE.
 0.342 ALUMINUM EXTRUDED T400 STOREFRONT 4 SIDED FRAME. PAINT CHARCOAL TO MATCH RAL 7043.
 0.343 EIFS. 2X6 TRIM 4-SIDED FRAME PAINT CHARCOAL TO MATCH RAL 7043.
 0.344 GREEN SCREEN STYLE MESH ANCHOR TO RECEIVER PLATE AND TRIM.
 0.345 VINE / PLANTER / IRRIGATION. REFER TO LANDSCAPING.
 0.346 ADA PARKING SIGNAGE REFER TO SITE DETAILS.
 0.348 CMU SIGHT BARRIER WALL WITH BR1 BRICK VENEER. REFER TO STRUCT.
 BR1 SEE FINISH SCHEDULE
 BR2 SEE FINISH SCHEDULE
 FRPX SEE FINISH SCHEDULE
 G1 ALUMINUM STOREFRONT | MFR: KAWNEER TRIFAB VERRASGLAZE 451T | FINISH: POWDER COAT | COLOR: ANODIZED ALUMINUM | 2" x 4 1/2"
 PROFILE | THERMAL BREAK: 1" CLEAR INSULATED GLAZING: PPG SOLARBAR 70 (OR APPROVED EQUAL) | REFER TO SHEET A602 FOR
 ADDITIONAL INFORMATION
 PX1 EIFS SYSTEM | PRODUCT: DRYVIT OUTSULATION PLUS MD w/ MOISTURE DRAINAGE SYSTEM | TEXTURE: DRYVIT LYMESTONE | PAINTED
 COLOR: #105 SUEDE
 SF1 SEE FINISH SCHEDULE

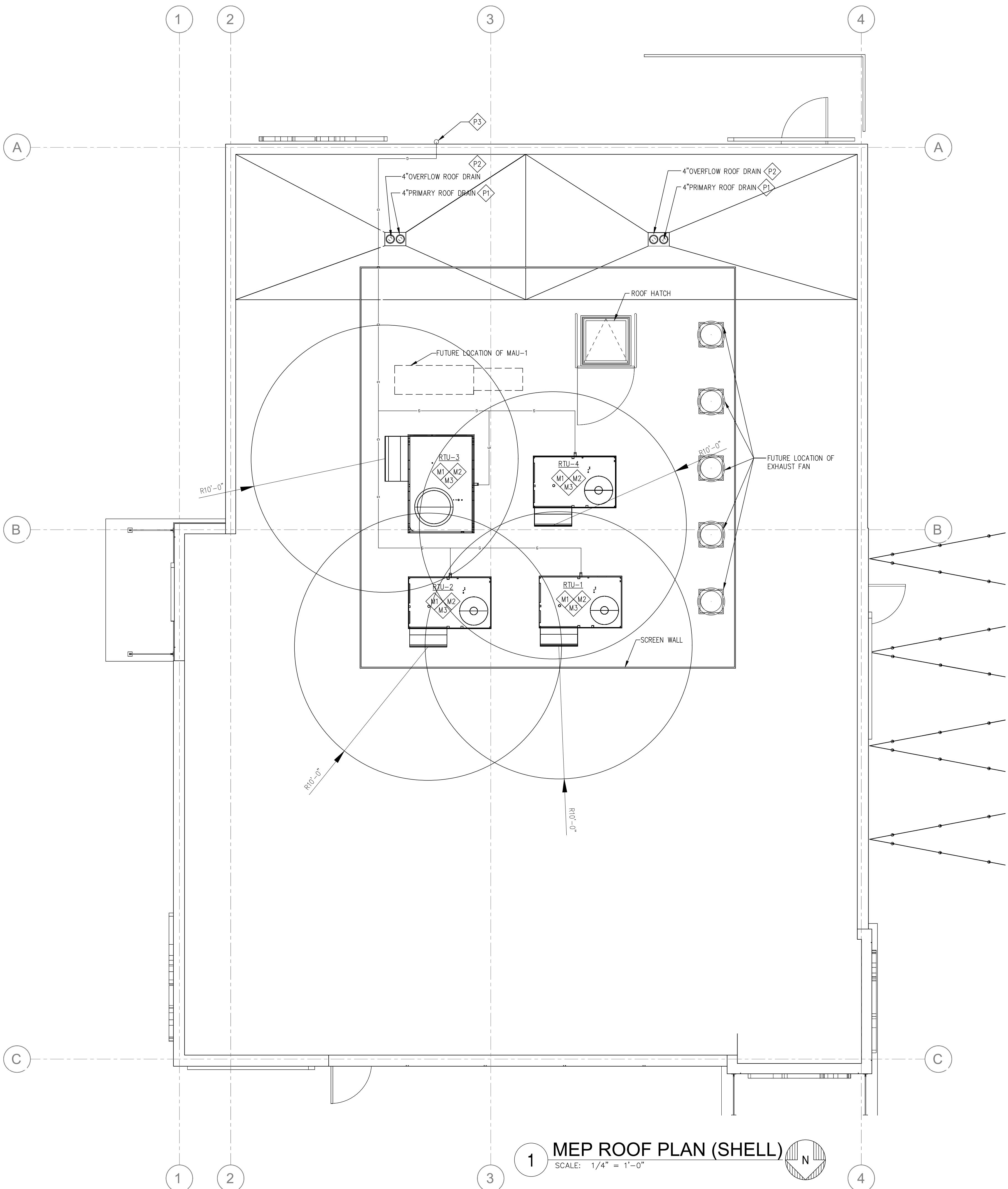


No.	Description	Date

MEP ROOF PLAN -
SHELL

Project Number: 1234 Sheet Number:
 Drawn By: Author: Issue Date: XXXX.XX
 DPM: DM: CPM: DPM DM CPM

M-2.0



MECHANICAL KEYED NOTES

- M1** NEW ROOF TOP UNIT AS SHOWN IN SCHEDULE ON SHEET M2.2. UNIT SHALL BE LOCATED SUCH THAT SUPPLY AND RETURN DUCTWORK DROP BETWEEN JOISTS. SEE SHEET M2.1 FOR CONTINUATION. RUN CONDENSATE LINE TO NEAREST ROOF DRAIN.
- M2** CONTRACTOR TO PROVIDE U.L. LISTED IONIZATION TYPE SMOKE DETECTOR INTERLOCKED W/ RTU CONTROLS TO SHUT RTU DOWN UPON ACTIVATION OF DETECTOR. LOCATE IN RETURN AIR DUCTWORK. DETECTORS SHALL BE ACCESSORIZED WITH VISIBLE AND AUDIBLE SIGNALS IN AN APPROVED LOCATION. (2022 IMC W/2022 NC MC AMENDMENTS CH.606.4.1, EX.2).
- M3** PROVIDE AND INSTAL TWO PIECE THERMOSTAT (COSTATO2AE1, COMM. TOUCHSCREEN) INSTALLED AT ROOFTOP UNIT. ROOFTOP UNIT CONTRACTOR TO LEAVE MINIMUM 50' OF WIRE AT THERMOSTAT FOR TENANT FINISH INSTALLATION. THERMOSTAT SENSOR TO BR PROVIDED BUT NOT INSTALLED. COORDINATE WITH OWNER REPRESENTATIVE.

PLUMBING KEYED NOTES

- P1** PROVIDE WADE 3220 (OR EQUAL) ROOF DRAIN. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO COMMENCING WORK.
- P2** PROVIDE WADE 3220 (OR EQUAL) OVERFLOW ROOF DRAIN WITH 2" DAM. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO COMMENCING WORK.
- P3** GAS DN TO GAS METER.

No.	Description	Date

PLUMBING SPECIFICATIONS:

- GENERAL:
 - ALL PLUMBING WORK INCLUDING INSTALLATION, EQUIPMENT, FIXTURES AND PIPING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH LOCAL CODE AND ADOTTED ORDINANCES, AND REGULATIONS SET FORTH BY THE AHU (AUTHORITY HAVING JURISDICTION).
 - ROUTING OF ALL SANITARY PLUMBING, DOMESTIC WATER PIPING, AND GAS PIPING SHOWN ON THE PLANS IS SHOWN WITH THE INTENTION OF APPROXIMATE THE EXISTING CONDITIONS, AND NEW ITEMS. PLUMBING CONTRACTORS SHALL VISIT THE JOB SITE CONDITIONS PRIOR TO SUBMITTING BIDS OR STARTING WORK. THIS CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HIS WORK WITH THE WORK OF ALL OTHER TRADES TO AVOID INTERFERENCE. CONTRACTORS MAY DEVIATE FROM THE LOCAL CODES AND REGULATIONS IF INSTALLATION COMPLIES WITH LOCAL CODES AND INDUSTRY PRACTICES, AND IF THE AHU AND OWNER'S REPRESENTATIVE APPROVE. ITEMS NOT SHOWN ON THE PLANS OF SHOWN IN CONFLICT WITH ANY CODE, REGULATION OR EXISTING CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL WORK IN ACCORDANCE WITH LOCAL CODES.
 - PRIOR TO SUBMISSION OF THE CONTRACTOR'S COST ESTIMATE FOR WORK INCLUDED UNDER THIS PROJECT, THE CONTRACTOR SHALL VISIT THE JOB SITE TO EXAMINE ALL EXISTING CONDITIONS RELATED TO HIS WORK, AND UPON FINAL EXAMINATION OF SUCH SHALL SUBMIT A FINAL COST ESTIMATE THAT THIS CONTRACTOR HAS VISITED SAME AND APPROVED ALL EXISTING AND PROJECT CONDITIONS, EXCEPT OF ADDITION, WORK OR ADD-ONS DUE TO NON-VERIFICATION OF EXISTING CONDITIONS, WILL NOT BE CONSIDERED BY THE OWNER. ALL ADDITIONAL WORK WHICH IS NOT CLEARLY APPROVED PRIOR TO PERFORMANCE OF SUCH WORK WILL BE CHARGED TO THE CONTRACTOR, AND IF NOT SETTLED WILL BE HELD FROM HIS FINAL PAYMENT.

2. MATERIALS:

- DOMESTIC WATER PIPING:
 - WATER PIPING SHALL BE TYPE-L COPPER WITH WROUGHT FITTINGS. LEAD-FREE SOLDER OR SILVER SOLDER SHALL BE USED AT ALL POINTS OF CONNECTION. HANGERS SHALL BE EQUAL TO CLEMS TYPE HANGERS AND SHALL BE USED ON ALL PIPING AT INTERVALS AS REQUIRED BY CODE. THE CONTRACTOR SHALL ALLOW ADDITIONAL CLEARANCE FOR EXPANSION AND CONTRACTION OF PLATED OR NON-INSULATED PIPING. AT THE CONTRACTOR'S OPTION CROSS-LINKED POLYETHYLENE (PEX) PIPING MAY BE UTILIZED WHERE ALLOWED BY THE AUTHORITY HAVING JURISDICTION.

ALL COMPONENTS OF THE POTABLE WATER SYSTEM SHALL COMPLY WITH THE LEAD FREE REQUIREMENTS AS NOTED IN SECTION 1417 OF THE SAFE DRINKING WATER ACT.

2.2 DRAIN, WASTE AND VENT PIPING:

- DRAIN, WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC OR SERVICE WEIGHT CAST IRON, AS REQUIRED BY CODE. PVC SHALL NOT BE USED IN RETURN AIR PLenums WHERE PROHIBITED BY CODE. WHERE FLOOR OR HUB DRAINS ARE SHOWN AS CAST IRON, THE CONTRACTOR SHALL PROVIDE A SUITABLE COUPLING WHICH IS APPROVED BY CODE.

ALL CAST IRON SOIL PIPE/FITTINGS BELOW OR ABOVE GROUND SHALL BEAR THE COLLECTIVE TRADEMARK OF CISPI AND/OR BE "NSF INTERNATIONAL".

ALL STANDARD COUPLINGS SHALL BE IN COMPLIANCE TO CISPI 310 (LATEST EDITION), BEARING THE MARK OF NSF INTERNATIONAL.

OR

AT THE CONTRACTOR'S OPTION AND WHERE ALLOWED BY CODE AND THE LOCAL AUTHORITY HAVING JURISDICTION SCHEDULE 40 PVC-DW MAY BE USED.

CONDENSATE DRAIN LINES FOR COOLERS AND FREEZER SHALL BE COPPER.

3. VALVES:

- SHUT OFF VALVES SHALL BE EITHER GATE-TYPE OR BALL VALVES BY "CRANE", "STOCKHAM" OR "POWELL" MIXING VALVES SHALL BE BY "FLAMER" OR APPROVED EQUAL BACKWATER VALVES SHALL BE BY "ZURN" OR APPROVED EQUAL. ALL VALVES SHALL MEET THE LEAD FREE REQUIREMENTS AS NOTED IN SECTION 1417 OF THE SAFE DRINKING WATER ACT.

4. PLUMBING SPECIALTIES:

- WATER HAMMER ARRESTORS:
 - PROVIDE FACTORY MANUFACTURED WATER HAMMER ARRESTORS BY "NIBCO", "WADE" OR EQUAL AT THE CONTRACTOR'S OPTION AND WHERE ALLOWED BY CODE, 12" HIGH AIR CHAMBERS CONSTRUCTED OF (LEAD FREE) TYPE-L COPPER AND ONE SIZE LARGER THAN THE SUPPLY PIPING SHALL BE ALLOWED.

4.2 CLEAN OUTS:

- WALL CLEAN OUTS SHALL HAVE STAINLESS STEEL COVERS AS MANUFACTURED BY "WADE" OR APPROVED EQUAL. FLOOR CLEAN OUTS SHALL HAVE SATIN FINISH NICKEL TOP, IN FINISHED AREA, AND SATIN BRONZE CAP IN AREAS WHICH ARE NOT FINISHED. CLEAN OUTS SHALL BE MANUFACTURED BY "WADE" OR APPROVED EQUAL.

4.3 FIXTURES:

- PLUMBING SHALL BE AS SPECIFIED ON THESE PLANS OR ON THE ARCHITECTURAL PLANS. ALL FIXTURES SHOULD MEET ADA REQUIREMENTS WHERE APPLICABLE. FIXTURES SHOULD BE OF THE HIGHEST QUALITY BY "AMERICAN STANDARD", "ROHLER" OR APPROVED EQUAL AND SHALL MEET THE LEAD FREE REQUIREMENTS AS NOTED IN SECTION 1417 OF THE SAFE WATER DRINKING ACT.

4.4 WATER HEATERS:

- IF NEW WATER HEATER(S) ARE TO BE INSTALLED THEY SHALL BE AS SPECIFIED ON THE PLANS, AND SHALL BE OF COMMERCIAL GRADE, AND AGA APPROVED IF GAS FIRED AND UL APPROVED IF ELECTRIC. HEATERS SHALL HAVE A 150 PSI WORKING PRESSURE RATING. WATER HEATERS AND ALL COMPONENTS SHALL MEET THE LEAD FREE REQUIREMENTS AS NOTED IN SECTION 1417 OF THE SAFE DRINKING WATER ACT. WATER HEATER INSTALLATION MANUALS SHALL BE GIVEN TO THE OWNER. SEE PLUMBING FIXTURE SCHEDULE.

4.5 GAS PIPING:

- ALL GAS PIPING SHALL BE SIZED, INSTALLED, TESTED, AND LABELED IN ACCORDANCE WITH LOCAL CODE. GAS PIPING SHALL BE SCHEDULE 40 BLACK IRON OR TYPE-L COPPER WITH BRAZED FITTINGS. BUSHINGS ARE PROHIBITED. BELL REDUCERS SHALL BE INSTALLED AT REDUCTION IN PIPE SIZE. GROUND JOINT UNIONS AND SHUT OFF VALVES SHALL BE INSTALLED AT ALL GAS APPLIANCES. FLEXIBLE GAS LINES ARE PROHIBITED ON STATIONARY APPLIANCES AND SHALL ONLY BE INSTALLED ON FULLY PORTABLE EQUIPMENT. A RESTRAINT CABLE SHALL BE ATTACHED TO ANY FLEXIBLE CONNECTOR AND THE FLOOR SUCH THAT THE FLEXIBLE CONNECTOR CANNOT BE OVER EXTENDED.

5. EXECUTION:

- ALL PLUMBING FIXTURES, EQUIPMENT AND PIPING SHALL BE INSTALLED PER LOCAL CODE AND ESTABLISHED INDUSTRY PRACTICES. LOCATE ALL PIPING, AS SHOWN ON THE PLANS.
- COORDINATE WITH ALL OTHER TRADES TO AVOID INTERFERENCE, AND ADHERE TO ALL SPECIFICATIONS AND MANUFACTURER GUIDELINES.

- RUN ALL DOMESTIC WATER PIPING AS HIGH AS POSSIBLE. INSTALL HANGERS AND STRAPPING, ALLOWING FOR EXPANSION AND CONTRACTION OF PIPE. DO NOT HANG OR SUPPORT OTHER EQUIPMENT OR PIPING FROM WATER LINES. SEPARATE HOT AND COLD WATER LINES A MINIMUM OF SIX (6) INCHES. INSULATE ALL PIPING WITH 1" INSULATION WHICH MEETS OR EXCEEDS 25/50 RATINGS.

- INSTALL SOIL, WASTE AND VENT PIPING WITH A MINIMUM SLOPE OF 1/4" PER FOOT IN THE DIRECTION OF FLOW FOR DRAINS AND AGAINST THE FLOW OF VENT GASES. NO FIXTURE SHALL HAVE AN S-TRAP OR BE DOUBLE TRAPPED.
- INSULATE ALL DOMESTIC WATER PIPING, HORIZONTAL WASTE PIPING AND STORM DRAINAGE PIPING ABOVE CEILINGS.

6. VALVES:

- LOCATE VALVES SO AS TO BE ACCESSIBLE AND SO THAT SEPARATE SUPPORT CAN BE PROVIDED WHEN NECESSARY. INSTALL ALL STEMS UPRIGHT. DO NOT INSTALL VALVES OF DISSIMILAR COMPOSITION WITHOUT AN APPROVED DIELECTRIC FITTING.

7. TEST AND SANITIZATION:

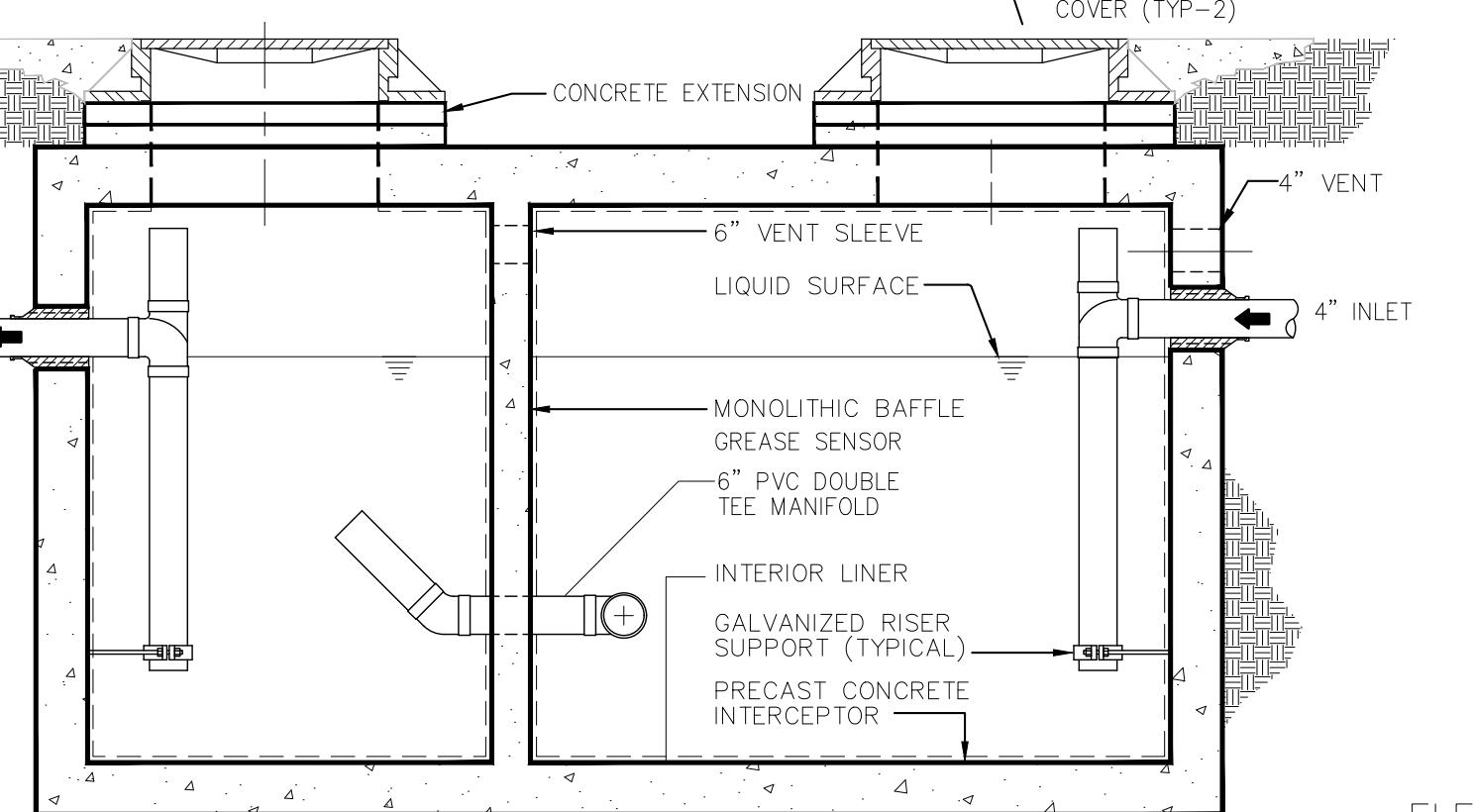
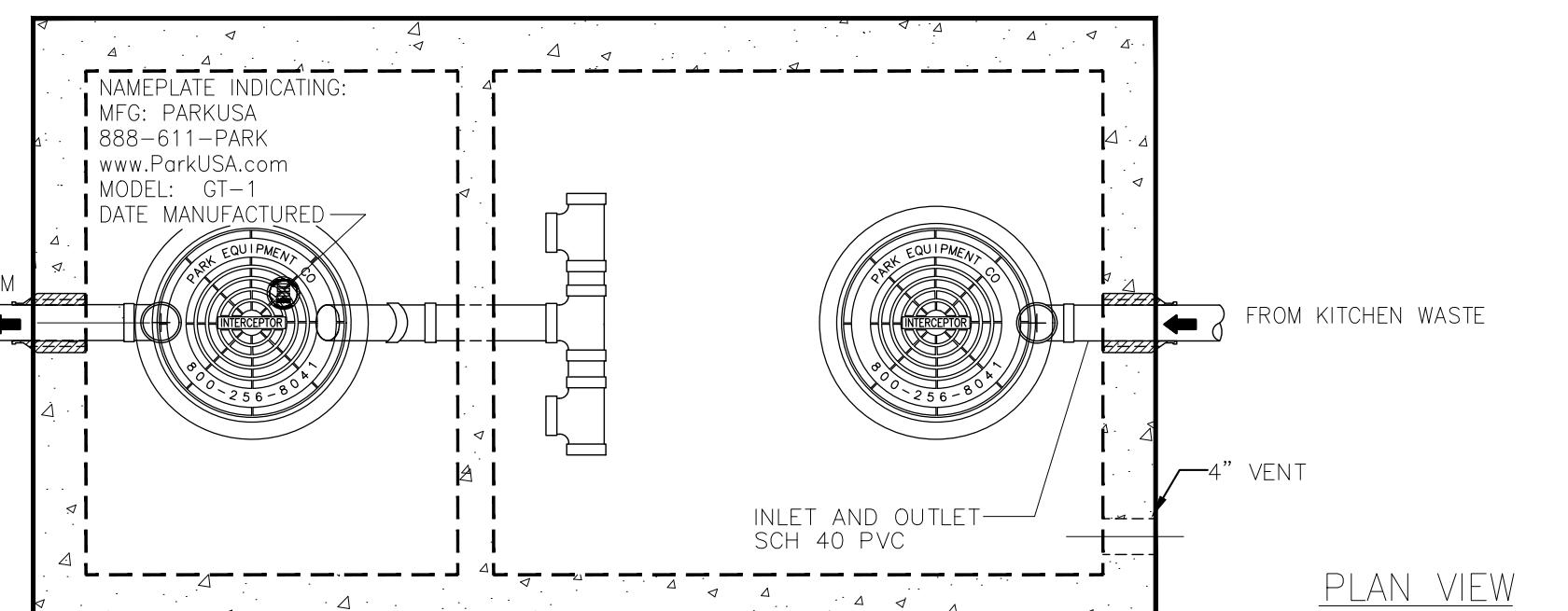
- FLUSH, TEST AND SANITIZE ALL PLUMBING PIPING INCLUDING DRAINS, WASTE VENTS AND WATER PIPING PER LOCAL CODES AND REGULATIONS.

PLUMBING FIXTURE SCHEDULE

FIXT. ID	DESCRIPTION	MANUFACTURER	MODEL	ROUGH-IN				REMARKS
				W	V	CW	HW	
FCO	FLOOR CLEANOUT	WATTS	CO-200-S	PIPE SIZE	-	-	-	WATTS DRAINAGE CO-200-S EPOXY COATED CAST IRON FLOOR CLEANOUT WITH 5" X 5" SQUARE ADJUSTABLE GASKETED NICKEL BRONZE TOP, REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUG AND NO HUB (STANDARD) OUTLET.
GCO	GRADE CLEANOUT	WATTS	CO-200-SX	PIPE SIZE	-	-	-	WATTS DRAINAGE CO-200-SX EPOXY COATED CAST IRON FLOOR CLEANOUT WITH 5" X 5" SQUARE ADJUSTABLE GASKETED HEAVY DUTY NICKEL BRONZE TOP, REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUG AND NO HUB (STANDARD) OUTLET.
WH-1	WALL HYDRANT	JAY R. SMITH	5690QT	-	-	3/4"	-	WITH VACUUM BREAKER.
DSN-1	DOWNSPOUT NOZZLE	JAY R. SMITH	1770	-	-	-	-	

GREASE INTERCEPTOR SCHEDULE

MARK	FIXTURE	LOCATION	DESCRIPTION / REMARKS
GI-1	GREASE INTERCEPTOR	SEE PLANS	PARK USA GT-1250, MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48 CLASS 30. MANHOLE SHALL BE NOMINAL 24 INCH DIAMETER AND BE TRAFFIC DUTY. THE GREASE INTERCEPTOR IS STRUCTURALLY & HYDRAULICALLY ENGINEERED TO CONFORM TO UPC/CPC AND REGIONAL PLUMBING CODES. INSTALL PER MANUFACTURER'S INSTRUCTIONS. 4" THICK MINIMUM CONCRETE REINFORCED CONCRETE SLAB OVER THE INTERCEPTOR IS REQUIRED.



GREASE INTERCEPTOR SCHEDULE							
MODEL NO.	CAPACITY USGd	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1 OUTLET FL2
GT-500	500	1,200	9,500	7'-10"	4'-4"	4'-6"	3'-3" 3'-0"
GT-750	750	1,700	9,900	7'-10"	4'-4"	6'-0"	4'-5" 4'-2"
GT-1000	1,000	2,300	13,350	8'-8"	5'-0"	6'-0"	4'-9" 4'-6"
GT-1250	1,250	2,900	14,650	9'-2"	5"-8"	6'-0"	4'-9" 4'-6"
GT-1500	1,500	3,500	16,050	9'-2"	5"-8"	7'-0"	5'-9" 5'-6"
GT-2000	2,000	4,600	21,250	9'-0"	6'-0"	8'-0"	6'-9" 6'-6"
GT-2500	2,500	5,700	27,050	13'-0"	7'-0"	7'-0"	5'-9" 5'-6"
GT-3000	3,000	6,900	33,150	13'-0"	7'-0"	8'-0"	6'-9" 6'-6"
GT-3500	3,500	8,000	38,550	13'-0"	7'-0"	8'-6"	7'-3" 7'-0"
GT-4000	4,000	9,300	38,100	16'-0"	8'-6"	7'-0"	5'-9" 5'-6"

OTHER SIZES ARE AVAILABLE. CONTACT US FOR MORE INFORMATION

ENGINEERING DATA

THE GREASE INTERCEPTOR IS STRUCTURALLY & HYDRAULICALLY ENGINEERED TO CONFORM TO UPC/CPC AND REGIONAL PLUMBING CODES RECOMMENDED IN MOST CITIES. CONSULT WITH LOCAL AUTHORITIES FOR SPECIFIC APPLICATION REQUIREMENTS.

SHOP DRAWINGS SHALL INCLUDE COMPLETE STRUCTURAL & BOUYANCY CALCULATIONS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER UPON REQUEST.

CONSULT WITH PARKUSA COMPANY FOR EXACT EXCAVATION DIMENSIONS & SHIPPING INFORMATION.



1 GREASE INTERCEPTOR DETAIL

SCALE: NONE



No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

GENERAL NOTES	
1. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE INCLUSIVE OF CITY OF RIVERSIDE AMENDMENTS, PERTINENT NFPA CODES AS WELL AS ALL RULES AND REGULATIONS OF LOCAL STATE AND FEDERAL AUTHORITIES HAVING JURISDICTION.	
2. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE MAIN CONTRACT CONDITIONS, ELECTRICAL SPECIFICATIONS (DIVISION 26), THE MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS, THE ARCHITECTURAL DRAWINGS, THE STRUCTURAL ENGINEER'S DRAWINGS, THE TELECOMMUNICATIONS, AUDIO VISUAL AND SECURITY DRAWINGS (DIVISION 27 AND 28).	
3. CONTRACTOR SHALL EXECUTE THE WORK IN THE BEST AND MOST THOROUGH MANNER & TO THE SATISFACTION OF THE CONSULTING ENGINEER, WHO WILL INTERPRET THE MEANING OF THE DRAWINGS AND SPECIFICATIONS AND SHALL HAVE THE POWER TO REJECT ANY WORK AND MATERIALS WHICH, IN THEIR JUDGMENT, ARE NOT IN FULL ACCORDANCE THEREWITH.	
4. THE DRAWINGS SHOW THE VARIOUS CONDUIT AND PIPING SYSTEMS SCHEMATICALLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY JUNCTION BOXES, PULL BOXES, SUPPORT AND ACCESSORIES TO MEET APPLICABLE CODES, BUILDING STANDARDS AND FULFILL CONTRACT DOCUMENTS. NO ADDED COMPENSATION WILL BE PERMITTED FOR VARIATIONS DUE TO FIELD CONDITIONS.	
5. DO NOT SCALE FROM THE DRAWINGS, IF IN DOUBT, REQUEST FURTHER INFORMATION.	
6. REFER TO THE ARCHITECTURAL DRAWINGS FOR SETTING OUT AND MOUNTING HEIGHT DETAILS OF ALL DEVICES, SWITCHES, ETC.	
7. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE SETTING OUT OF ALL CEILING MOUNTED COMPONENTS.	
8. ALL AREAS ASSOCIATED WITH WORK TO BE PERFORMED SHALL BE EXAMINED PRIOR TO BID SUBMISSION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR CONDITIONS FOUND DURING INSTALLATION.	
9. CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIALS, AND APPURTENANCES REQUIRED FOR THE INSTALLATION AND TESTING OF ALL EQUIPMENT AND APPLIANCES INDICATED IN THESE DOCUMENTS. CONTRACTOR SHALL COMPLETE ALL WORK AND VERIFY THE OPERATION OF ALL EQUIPMENT IN A MANNER SATISFACTORY TO THE ARCHITECT AND ELECTRICAL CONSULTING ENGINEER.	
10. WHERE CONDUIT, CABLE, CABLE TRAY OR OTHER ELECTRICAL EQUIPMENT SUCH AS CUTOUT BOXES, LUMINAIRES OR PANELBOARDS, PENETRATE RATED ASSEMBLIES, FIRE BARRIERS, FIRE WALLS, FIRE PARTITIONS, SMOKE BARRIERS, OR SMOKE PARTITIONS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN APPROPRIATE FIRE OR SMOKE STOPPING SYSTEM THAT IS LISTED BY UNDERWRITERS LABORATORIES OR COMPLIES WITH THE APPROPRIATE ICC EVALUATION REPORT AND DOES NOT REDUCE THE RATING OF THE ASSEMBLY. ALL THROUGH AND MEMBRANE PENETRATIONS SHALL BE SUBMITTED TO THE ARCHITECT OF RECORD FOR APPROVAL PRIOR TO INSTALLATION. ALL ACCESS PANELS SHALL BE APPROVED AND LISTED FOR THE ASSEMBLY IN WHICH THEY ARE BEING INSTALLED, FULLY COMPLY WITH ALL REQUIREMENTS OF DIVISION 26 SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATINGS OF ALL ASSEMBLIES. CONTRACTOR SHALL COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR PRIOR TO INSTALLATION.	
11. CONDUIT RUNS INDICATED ON PLAN ARE FOR REFERENCED ONLY. EXACT LOCATIONS AND ELEVATIONS SHALL BE DETERMINED AFTER COORDINATING WITH OTHER TRADES AND THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL SUPPLY, AS PART OF THEIR SHOP DRAWING SUBMISSION, THE EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT AND CONDUIT RUNS, INCLUDING THE PROPOSED LOCATIONS AND THE MEANS OF SUPPORT. PROVIDE THE ARCHITECT AND STRUCTURAL ENGINEER THE ANTICIPATED LOAD AT THE POINTS OF ATTACHMENT PRIOR TO COMMENCEMENT OF WORK.	
12. CONTRACTOR SHALL VERIFY THE ELECTRICAL REQUIREMENTS OF ALL NEW EQUIPMENT TO BE USED. ALL SPECIAL PURPOSE OUTLETS INDICATED ON PLAN SHALL BE VERIFIED WITH THE EQUIPMENT MANUFACTURER AND OWNER PRIOR TO INSTALLATION. THE ELECTRICAL CONTRACTOR SHALL ENSURE PROPER WIRING AND COMPATIBILITY WITH ATTACHMENT PLUGS OR JUNCTION BOXES THAT MAY BE FURNISHED AS AN INTEGRAL PART OF THE EQUIPMENT.	
13. ALL RECEPTACLES SHALL BE ACCESSIBLE. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EQUIPMENT RECEPTACLES WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS, THE OWNER, AND THE AUTHORITY HAVING JURISDICTION.	
14. CONTRACTOR SHALL PROVIDE DISCONNECTS FOR ALL EQUIPMENT AS REQUIRED BY THESE DOCUMENTS AND THE ADOPTED CODES. COORDINATE ALL REQUIREMENTS AND LOCATIONS WITH THE AUTHORITY HAVING JURISDICTION, THE VENDORS APPROVED SHOP DRAWINGS AND FINAL EQUIPMENT LOCATIONS.	
15. CONTRACTOR SHALL COORDINATE ALL LOCATIONS AND HEIGHTS OF STUB-UPS AND STUB-OUTS AS WELL AS ALL OUTLETS IN FIELD.	
16. FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE ACCORDING TO VENDOR'S APPROVED SHOP DRAWINGS AND THE LISTING OF THE EQUIPMENT.	
17. ALL WORK AND/OR EQUIPMENT INSTALLED OUTDOORS SHALL BE APPROVED FOR USE IN WET LOCATIONS.	
18. ALL PARTS OF THE WORK AND ASSOCIATED EQUIPMENT SHALL BE TESTED AND ADJUSTED TO WORK PROPERLY AND BE IN PERFECT OPERATING CONDITION. THIS SHALL INCLUDE MEG-OHM TESTING BETWEEN PHASES, BETWEEN EACH PHASE AND THE GROUNDED CONDUCTOR, AND EACH PHASE AND THE EQUIPMENT GROUND FOR ALL FEEDERS, TAPS, SECONDARY CONDUCTORS, SWITCHBOARDS AND PANELBOARDS. FURNISH ALL TEST RESULTS TO THE ELECTRICAL CONSULTING ENGINEER FOR REVIEW PRIOR TO ENERGIZING EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL CORRECT ANY DEFECTS IDENTIFIED THOUGH THIS TESTING.	
19. PROVIDE ISOLATED GROUND TYPE OUTLETS WHERE THE "1G" SUBSCRIPT IS INDICATED.	
20. WALL-MOUNTED OUTLETS, SWITCHES, AND CONTROL DEVICES, SHOULD BE MOUNTED AT THE HEIGHTS INDICATED IN THESE DOCUMENTS. THE ELECTRICAL CONTRACTOR SHALL VERIFY AND FULLY COMPLY WITH ALL AMERICANS WITH DISABILITIES REQUIREMENTS AND MEET ALL REQUIREMENTS ESTABLISHED BY THE HOUSING AND URBAN DEVELOPMENT (HUD) STANDARDS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.	
21. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF RIVERSIDE RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE CITY OF RIVERSIDE, DEPARTMENT OF BUILDING AND SAFETY.	
22. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE MANDATED BY THE CALIFORNIA ELECTRICAL CODE ABOVE OR BELOW ELECTRICAL EQUIPMENT.	
23. ADEQUATE CLEARANCE AROUND AND ABOVE ELECTRICAL EQUIPMENT SHALL BE MAINTAINED PER CALIFORNIA ELECTRICAL CODE SECTION 110.26.	
24. ALL GROUNDING ELECTRODES THAT ARE PRESENT AT EACH BUILDING AND STRUCTURE, INCLUDING THE PHOTOVOLTAIC SYSTEM, SHALL BE BONDED TOGETHER.	
25. ALL WORK TO COMPLY WITH 2022 C.E.C. AND 2022 ENERGY EFFICIENCY STANDARDS.	
26. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNDERGROUND CONDUCTORS AT THE POINT OF DISCONNECTION PER C.E.C. 210.4 [B].	
27. G.F.C.I. PROTECTION REQUIRED FOR APPLIANCES IN DEDICATED SPACES AND RECEPTACLES NOT READILY ACCESSIBLE PER C.E.C. 210.8 [A].	
28. G.F.C.I. PROTECTION IS REQUIRED FOR ALL 120 VOLT, SINGLE PHASE 15 AND 20 AMP RECEPTACLES INSTALLED IN BATHROOMS, KITCHENS, ROOFTOPS, OUTDOORS AND WITHIN 6 FEET OF SINKS AS PER C.E.C. 210.8 [B].	
29. 125V, 15 AND 20 AMP RECEPTACLES ARE REQUIRED, PER C.E.C. 210.52, TO BE LISTED AS TAMPER RESISTANT.	
30. PROVIDE CARBON MONOXIDE ALARMS IN DWELLING UNITS WHERE FUEL BURNING APPLIANCES ARE INSTALLED AND/OR IN DWELLING UNITS WITH ATTACHED GARAGES PER C.B.C. 420.4.	
31. PROVIDE "ARC-FLASH" LABELING ON SWITCHBOARDS, DISTRIBUTION BOARDS AND PANELBOARDS.	
32. UPON COMPLETION OF THIS PROJECT, PROVIDE THE PROJECT OWNER WITH AN APPROVED COPY OF THE CERTIFICATE OF OCCUPANCY AND OR A COPY OF THE FINAL APPROVAL OF THE ELECTRICAL SYSTEM.	

CONDUIT AND CIRCUIT WIRING NOTES

1. ALL CONDUIT AND CABLE "HOME RUNS" SHALL CONSIST OF A SINGLE CIRCUIT PER CONDUIT FOR THREE PHASE CIRCUITS, AND SINGLE PHASE CIRCUITS SERVED BY AN OVERCURRENT PROTECTIVE DEVICE (OCPD) IN EXCESS OF 20 AMPERES SINGLE POLE.	
2. WHERE WIRE AND CONDUIT BRANCH CIRCUITS SHARE A CONDUIT HOME RUN, (OCPD LESS THAN OR EQUAL TO 20 AMPERES SINGLE POLE) THERE SHALL BE A MAXIMUM OF THREE CIRCUITS COMBINED IN A SINGLE RACEWAY TO THE PANELBOARD, UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE DE-RATED PER CALIFORNIA ELECTRICAL CODE. COMBINING OF MULTIPLE HOME RUNS (MORE THAN THREE) IN A SINGLE CONDUIT IS NOT PERMITTED. WITH THE EXCEPTION OF FURNITURE FEED TYPE WIRING SYSTEMS THE SHARING OF NEUTRALS AND GROUNDING CONDUCTORS BETWEEN CIRCUITS IS NOT PERMITTED.	
3. CONTRACTOR SHALL VERIFY PHASE LOAD BALANCING ON POWER PANELS UPON COMPLETION OF THE ELECTRICAL INSTALLATION. INCLUDE RE-DISTRIBUTION OF CIRCUITS WITHIN PANELS TO BALANCE WITHIN A 10% WINDOW ($\pm 5\%$).	
4. UNLESS OTHERWISE NOTED ALL BRANCH CIRCUITS SHALL BE 20-AMPERE DEDICATED CIRCUITS WITH 3/4" #12, #12N, #12G MINIMUM.	
5. ALL CIRCUITS TO HAVE BOTH CONDUCTORS AND GROUND WIRE HOME RUN TO SERVICE PANEL.	
6. ALL FEEDER AND BRANCH CIRCUIT WIRING SHALL BE A MINIMUM SIZE OF AWG #12. METAL CLAD (MC) CABLING IS PERMITTED	
7. RIGID STEEL CONDUITS:	
7.1. USE FOR ALL SIZES WHERE DIRECTLY EXPOSED TO WEATHER, WHERE SUBJECT TO ABNORMAL CONDITIONS OF HEAT, COLD, MOISTURE, HUMIDITY, FUMES AND HAZARDOUS ELEMENTS; WHERE INSTALLED EXPOSED BELOW 7-1/2", IN AREAS WHERE SUBJECT TO MECHANICAL INJURY. USE FOR ALL CONDUIT IN ALL ELECTRICAL AND MECHANICAL EQUIPMENT ROOMS; FOR LOW VOLTAGE (UP TO 600 VOLTS) FEEDERS INSIDE OF BUILDING AND IN CONCRETE SLABS ON GRADE.	
7.2. FOR ALL BENDS IN CONDUITS 3" AND LARGER, AND OVER 50' IN LENGTH, USE LARGE RADIUS FACTORY MADE BENDS OR FIELD FABRICATE WITH A POWER BENDER.	
8. ELECTRICAL METALLIC TUBING (EMT)	
8.1. PERMITTED TO BE USED IN WET LOCATIONS WITH APPROVED FITTINGS.	
8.2. CONDUCTORS SHALL BE CONTINUOUS. CONDUCTORS SHALL NOT BE INSTALLED UNTIL THE RACEWAY SYSTEM IS COMPLETE.	
9. RIGID PLASTIC CONDUITS:	
9.1. ALL CONDUITS INSTALLED UNDERGROUND, OR ENCASED IN CONCRETE, SHALL BE SCHEDULE 40 PVC CONDUIT.	
9.2. MAKE ALL FITTINGS IN PLASTIC CONDUITS WATERTIGHT WITH APPROVED SOLVENT-WELD CEMENT SPECIFICALLY MANUFACTURED FOR THE PURPOSE. APPLY HEAT FOR BENDS SO THAT CONDUIT DOES NOT DISTORT OR DISCOLOR.	
10. PVC JACKETED STEEL CONDUITS:	
10.1. USE FOR ALL SIZES IN SOIL BELOW THE BUILDING.	
10.2. FOR ALL BENDS IN CONDUITS 1-1/4" AND LARGER, USE LARGE RADIUS FACTORY MADE BENDS OR FIELD FABRICATE WITH A POWER BENDER.	

RELEVANT CODE CYCLES	
2020 NEC	2022 CEC
2022 TITLE 24 PART 6	

GENERAL SYMBOLS	
SYMBOL	DESCRIPTION
(X)	KEYNOTE IDENTIFIER X - KEYNOTE NUMBER
(X)	REVISION CHANGE X - DELTA NUMBER
(X XXX)	DETAIL/ENLARGED PLAN CALLOUT X - DETAIL/REFERENCE# XXX - SHEET #
(X XXX)	SECTION IDENTIFIER X - SECTION # XXX - SHEET #

EQUIPMENT POWER	
a.	EQUIPMENT CALLOUT
b. KVA $\frac{V_d}{P_e} \cdot W$	EQUIPMENT DESIGNATION b. EQUIPMENT LOADING IN KVA OR HP c. EQUIPMENT UTILIZATION VOLTAGE d. NUMBER OF POLES e. NUMBER OF WIRES f. RELEVANT NOTES
-A	(-A) - DENOTES CONTINUOUS CURRENT IN AMPS (-P) - DENOTES NUMBER OF SWITCHED POLES
(A)	HARD WIRED CONNECTION TO FIXED EQUIPMENT OR PACKAGED UNIT (NON-MOTOR)
(A)	HARD WIRED CONNECTION TO MOTORIZED EQUIPMENT (MOTOR / FAN / PUMP / FAN COIL UNIT)
(30A 2P)	UL LISTED DISCONNECT (UNFUSED): APPROVED FOR MOTOR USE AS APPLICABLE -AS - DENOTES SWITCH RATING IN AMPS -AF - DENOTES FUSE SIZE IN AMPS MATCH VOLTAGE AND POLES TO EQUIPMENT. NEMA 1 U.O.N.
(30AS 30AF)	UL LISTED DISCONNECT (FUSED): APPROVED FOR MOTOR USE AS APPLICABLE -AS - DENOTES SWITCH RATING IN AMPS -AF - DENOTES FUSE SIZE IN AMPS MATCH VOLTAGE AND POLES TO EQUIPMENT. NEMA 1 U.O.N.
(3R)	PRE-WIRED UL LISTED MOTOR CONTROLLER (FURNISHED BY DIV 21, 22 AND 23 U.O.N.) COMPLETE WITH INTEGRAL OVERLOAD PROTECTIVE DEVICE. 3R INDICATES NEMA SIZE, NEMA 1 U.O.N.
(3UR)	PRE-WIRED CONTROL PANEL (FURNISHED BY DIV 21, 22 AND 23 U.O.N.) COMPLETE WITH INTEGRAL DISCONNECT AND OVERLOAD PROTECTIVE DEVICES. 3R INDICATES NEMA SIZE, NEMA 1 U.O.N.
(VFD 3R)	UL LISTED VARIABLE FREQUENCY DRIVE (FURNISHED BY DIV 21, 22 AND 23 U.O.N.) COMPLETE WITH INTEGRAL DISCONNECT AND OVERLOAD PROTECTIVE DEVICES. 3R INDICATES NEMA SIZE, NEMA 1 U.O.N.
(A)	HARD WIRED CONNECTION TO EQUIPMENT OR PACKAGED UNIT (NON-MOTOR) WITH TOGGLE SWITCH
(A)	SINGLE PHASE MANUAL STARTER WITH OVERLOAD PROTECTION FOR FRACTIONAL HORSEPOWER MOTORS
(A-P)	CIRCUIT BREAKER IN NEMA TYPE 1 ENCLOSURE: -A - DENOTES TRIP SETTING -P - DENOTES POLES
(L1A P-1A Q-1A)	PANELBOARD L - DENOTES LIGHTING AND MISCELLANEOUS 277V LOADS P - DENOTES POWER AND 120/208V LOADS Q - DENOTES EQUIPMENT AND/OR EXTERNAL SUPPLIES
(Q)	DRY TYPE ENERGY EFFICIENT TRANSFORMER PER SPECIFICATION: 30kVA AND LARGER SHALL BE FLOOR STANDING U.O.N. 115°C TEMPERATURE RISE U.O.N. AS 80°C ON SHEET E6.1 VOLTAGES AND KVA RATING - AS PER SHEET E6.1 K-RATING - STANDARD U.O.N. ON SHEET E6.1

SINGLE LINE DIAGRAM	
(A)	AMP METER
(V)	VOLT METER
ATS #A	2P, 3W, AUTOMATIC TRANSFER SWITCH -

No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

CONSTRUCTION NOTES

Project Number: Sheet Number:

6360

Drawn By:

EU

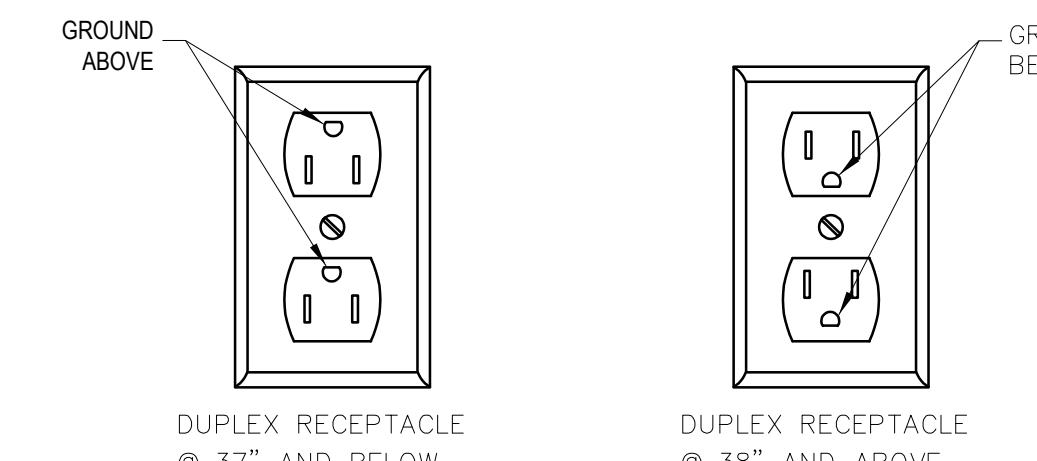
Issue Date:

02/12/2024

DPM:

DM:

CPM:

E0.01
1 RECEPTACLE GROUND LOCATION DETAIL

NOT TO SCALE

ELECTRICAL SPECIFICATIONS

- THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS SHALL BE CONSIDERED AS PART OF THIS SPECIFICATION.
- ALL WORK TO BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND THE MOST RECENT EDITION OF NATIONAL ELECTRIC CODE.
- FURNISH ALL MATERIALS, EQUIPMENT, LABOR, & SERVICES REQUIRED FOR THE INSTALLATION OF ALL ELECTRICAL WORK & AS REQUIRED TO PROVIDE A COMPLETE & OPERABLE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS.
- MATERIALS SHALL BE NEW W/ MANUFACTURER'S NAME PRINTED THEREON & UNDERWRITERS LABORATORY LISTED. THE SELECTION OF MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE DRAWINGS AND/OR SPECIFICATIONS. SELECTION OF MATERIALS SHALL BE IN STRICT ACCORDANCE W/ THE DRAWINGS AND/OR SPECIFICATIONS.
- SUBMIT MATERIAL LISTS AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE OWNER'S REPRESENTATIVE FOR REVIEW. SUBMITTALS SHALL BE IN ACCORDANCE WITH GENERAL CONDITIONS AND SHALL BEAR THE STAMP OF THE ELECTRICAL CONTRACTOR SHOWING THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS. APPROVAL OF SUCH CONTRACTOR'S APPROVAL WILL BE CONSIDERED AS REVIEW BY THE OWNER.
- CONTRACTOR SHALL GUARANTEE WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP & MATERIALS, USUALLY EXCEPTED, & SHOULD ANY SUCH DEFECTS DEVELOP A PERIOD OF ONE YEAR ACCEPTANCE OF THE BLDG. BY THE YEAR, THIS CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE ITEMS & DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE TO THE OWNER.
- INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS, NOR MENTIONED IN THE SPECIFICATIONS, THAT CAN BE LEGITIMATELY & REASONABLE BE INFERRED TO BELONG TO THE WORK DESCRIBED OR BE NECESSARY IN GOOD PRACTICE TO PROVIDE A COMPLETE SYSTEM, SHALL BE FURNISHED & INSTALLED AS THOUGH ITEMIZED HERE IN EVERY DETAIL.
- NOTIFY ARCHITECT IMMEDIATELY OF POSSIBLE CONFLICTS WITH STRUCTURE, MECHANICAL, OR OTHER FEATURES. JOBSITE CONDITIONS REQUIRE REASONABLE CHANGES IN LOCATIONS & ARRANGEMENT OF INDICATED EQUIPMENT, OUTLETS, OR WIRING. CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT COST TO OWNER.
- CONTRACTOR SHALL FILE PLANS WITH AND OBTAIN APPROVALS FROM MUNICIPAL AGENCIES. ALL PERMITS AND CERTIFICATES OF INSPECTION SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR. PERTINENT CERTIFICATES SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE, PRIOR TO FINAL BILLING.
- ANY FEES ASSOCIATED WITH CONSTRUCTION AND INSPECTION SHALL BE BORNE BY THE CONTRACTOR IN ORDER TO DELIVER TO THE OWNER A FINISHED BUILDING, READY FOR OCCUPANCY AND 100% OPERATION.
- CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS.
- HE SHALL CAREFULLY EXAMINE THE EXISTING CONDITIONS AND LIMITATIONS THEREOF. HE SHALL ASCERTAIN CONDITIONS UNDER WHICH THE WORK MUST BE PERFORMED, INCLUDING THE HANDLING OF MATERIALS, SECURITY AND LIMITING FIELD DIMENSIONS. FURTHER, THE CONTRACTOR SHALL PROVIDE FIELD VERIFICATION OF LOCATION OF EXISTING CONNECTIONS TO LANDLORD'S ELECTRICAL AND TELEPHONE EQUIPMENT AND OTHER FACILITIES.
- ANY DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS DISCOVERED AS A RESULT OF THE APPROBATION OF FIELD SURVEY SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE, PRIOR TO COMMENCING ANY WORK. ANY ADDITIONAL COSTS RESULTING FROM CONTRACTOR'S FAILURE TO DO SO SHALL BE HIS RESPONSIBILITY AND SHALL BE BORNE BY HIM.
- ANY deviation from plans without prior approval of the architect shall be cause for the rejection of materials and/or methods, and any cost incurred to correct such deviation to the satisfaction of the A/E shall be borne by the contractor.
- THE SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR, BECAUSE OF DIFFICULTIES ENCOUNTERED, WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD PROPER EXAMINATION BEEN MADE.
- ANY COSTS INCURRED DUE TO LACK OF COOPERATION AMONG THE TRADES SHALL BE BORNE BY THE CONTRACTOR.
- CONTRACTOR SHALL SUBMIT 6 COPIES OF SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR APPROVAL FOR ALL EQUIPMENT AND DEVICES INSTALLED. THERE WILL BE NO DRAW UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED & REVIEWED BY ARCH/ENGINEER.
- THE EQUIPMENT ROUGHING AS SHOWN ARE LOCATED TO THE BEST OF OUR KNOWLEDGE; HOWEVER, IN SOME INSTANCES, THE OWNER OR SUPPLIER MAY SUBSTITUTE OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.
- PLAN & INSTALL WORK IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, & KEEP OPENINGS & PASSAGES CLEAR.
- ELECTRICAL CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN HIS WORK AS THE JOB PROGRESSES; AN ACCURATE RECORD OF ALL WORK IS ACTUALLY INSTALLED.
- UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS AUTHORIZED, SHALL TURN OVER TO THE OWNER'S REPRESENTATIVE A RECORD SET OF PRINTS SHOWING THESE CHANGES.
- THE CONTRACTOR SHALL DO ALL CUTTING, CHASING, OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK HEREIN SPECIFIED.
- ALL OPENINGS THROUGH STRUCTURALLY SUPPORTED SLABS MUST BE CORED, SLEVED, GROUTED, SEALED AND MADE WATERPROOF. SLEVES MUST EXTEND AT LEAST 2' AFF.
- ALL SLEEVES, OPENINGS, ETC. THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED AFTER CONDUIT INSTALLATION TO RETAIN FIRE RATING.
- ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIR.
- HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL, SUCH AS CHANNELS, RODS, ETC. NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE SECURED TO THE BUILDING STRUCTURE, NOT TO PIPING OR DUCTWORK.
- ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE RUN IN STRAIGHT LINES PARALLEL, WITH OR AT RIGHT ANGLES TO COLUMN LINES AND SEPARATED AT LEAST 3' FROM WATER LINES WHEREVER THEY RUN ALONG SIDE OR ACROSS SUCH LINES.
- EVERY PART OF THE INSTALLATION SHALL BE TESTED, OPERATED AND LEFT IN PERFECT WORKING ORDER.
- TEST ALL WIRES AND CABLES INSTALLED UNDER THIS CONTRACT WITH A 1,000 VOLTS MEGOHM METER. ANY READINGS THAT ARE LOWER THAN REQUIRED BY GOOD PRACTICE OR APPLICABLE CODES, PROMPTLY REPLACE THE MATERIALS OR EQUIPMENT INVOLVED.
- SHOULD TESTING REVEAL ANY OTHER DEFECTS, PROMPTLY CORRECT SUCH DEFECTS AND RERUN TESTS UNTIL THE ENTIRE INSTALLATION IS SATISFACTORY IN ALL RESPECTS.
- ALL ITEMS IN THE NOTES, SCHEDULES AND LEGEND MAY NOT NECESSARILY APPEAR ON THESE DRAWINGS.
- TWO COPIES OF OPERATION AND MAINTENANCE MANUALS FOR THE EQUIPMENT HEREIN INSTALLED SHALL BE GIVEN TO THE OWNER PRIOR TO ACCEPTANCE OF THE BUILDING FOR OCCUPANCY.
- GUARANTEE:

CONTRACTOR IS TO GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR AFTER THE DATE OF ACCEPTANCE OF THE PROJECT BY THE OWNER. IT IS UNDERSTOOD BY HIS ACCEPTANCE OF THE CONTRACT THAT THE CONTRACTOR WILL MAKE GOOD ANY AND ALL WORK WHICH IN ANY WAY HAS BECOME DEFECTIVE AS TO THE QUALITY OF MATERIALS AND WORKMANSHIP FOR ANY CAUSE OTHER THAN ORDINARY WEAR AND TEAR.

FOR THE SAME PERIOD, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.

ARTICLE 300 — GENERAL REQUIREMENTS FOR WIRING METHODS AND MATERIALS (300.5)

TABLE 300.5 MINIMUM COVER REQUIREMENTS, 0 TO 1000 VOLTS, NOMINAL, BURIAL IN MILLIMETERS (INCHES)

LOCATION OF WIRING METHOD OR CIRCUIT	TYPE OF WIRING METHOD OR CIRCUIT							
	COLUMN 1 DIRECT BURIAL CABLES OR CONDUCTORS		COLUMN 2 RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT		COLUMN 3 NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASING OR OTHER APPROVED RACEWAYS			
ALL LOCATIONS NOT SPECIFIED BELOW	mm.	in.	mm.	in.	mm.	in.		
IN TRENCH BELOW 50 mm (2 in.) THICK CONCRETE OR EQUIVALENT	600	24	150	6	450	18		
0	0	150	6	300	12	150	6	
UNDER A BUILDING	0	0	0	0	0	0	0	
					(IN RACEWAY OR TYPE MC OR TYPE MI CABLE IDENTIFIED FOR DIRECT BURIAL)		(IN RACEWAY OR TYPE MC OR TYPE MI CABLE IDENTIFIED FOR DIRECT BURIAL)	
UNDER MINIMUM OF 102 mm (4 in.) THICK CONCRETE EXTERIOR SLAB WITH NO VEHICULAR TRAFFIC AND THE SLAB EXTENDING NOT LESS THAN 152 mm (6 in.) BEYOND THE UNDERGROUND INSTALLATION	450	18	100	4	100	4	150	6
UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS	600	24	600	24	600	24	600	24
ONE- AND TWO-FAMILY DWELLING DRIVEWAYS AND OUTDOOR PARKING AREAS, AND USED ONLY FOR DWELLING-RELATED PURPOSES	450	18	450	18	450	18	300	12
IN OR UNDER AIRPORT RUNWAYS, INCLUDING ADJACENT AREAS WHERE TRESPASSING PROHIBITED	450	18	450	18	450	18	450	18

Notes:

- Cover is defined as the shortest distance in millimeters (inches) measured between a point on the top surface of any direct-buried conductor, cable, conduit, or other raceway and the top surface of finished grade, concrete, or similar cover.
- Raceways approved for burial only where concrete encased shall require concrete envelope not less than 50 mm (2 in.) thick.
- Lesser depths shall be permitted where cables and conductors rise from termination or splice or where access is otherwise required.
- Where the wiring method types listed in Columns 1 through 3 is used for one of the circuit types in Columns 4 and 5, the shallowest depth of burial shall be permitted.
- Where solid rock prevents compliance with the cover depths specified in this table, the wiring shall be installed in metal or nonmetallic raceway permitted for direct burial. The raceways shall be covered by a minimum of 50 mm (2 in.) of concrete extending down to rock.

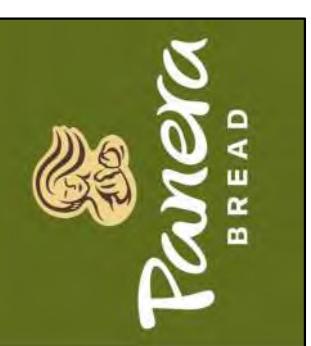


No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

ELECTRICAL SPECIFICATIONS

THESE SPECIFICATIONS ARE BASED UPON THE 2020 NEC. THE CODE(S) ADOPTED BY THE AUTHORITY HAVING JURISDICTION SUPERCEDE THE SECTIONS LISTED BELOW BUT ONLY IF THOSE REQUIREMENT(S) ARE MORE STRINGENT.

- INTENT**
 - THESE PLANS, AND ALL ASSOCIATED DOCUMENTS, ARE CONSIDERED TO BE CONTRACT DOCUMENTS AND AS SUCH, CANNOT BE AMENDED OR MODIFIED WITHOUT THE PRIOR WRITTEN CONSENT OF 120 DEGREEZ ENGINEERING.
 - FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
 - ALL DRAWINGS ARE SCHEMATIC BY DESIGN AND THE REQUIRED INSTALLATION SHALL NOT BE LIMITED TO WHAT IS DEPICTED HEREIN. ALL APPURTENANCES REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM MUST BE INCLUDED IN THE CONTRACTOR'S BID AND WORK.
 - WHEREVER USED IN THESE DOCUMENTS THE WORD OR TERM "SHALL" IS TO BE INTERPRETED AS FOLLOWS: MANDATORY LANGUAGE AND IS WITHOUT EXCEPTION.
- GENERAL**
 - THE CONTRACTOR SHALL VISIT THE JOB SITE TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS WHICH MAY AFFECT THEIR BID OR WORK. NO ALLOWANCES WILL BE MADE FOR EXISTING CONDITIONS OR THE CONTRACTOR'S FAILURE TO ACCOMMODATE EXISTING CONDITIONS ON ANY BID.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN CLARIFICATION OF ANY APPARENT CONFLICT OR INCONSISTENCY IN THE DRAWINGS, SPECIFICATIONS OR DESIGN PRIOR TO THEIR BID IN WRITING FROM THE ENGINEER. OTHERWISE THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY TO CORRECT (AT THEIR COST) ANY SUCH ITEMS AS NECESSARY TO MEET THE INTENT OF THESE DOCUMENTS AND ANY ADOPTED CODE OR NATIONAL STANDARD AS INTERPRETED BY THE ENGINEER.
 - ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE MOST RECENT EDITIONS OF THE NATIONAL ELECTRIC CODE (NEC), UBC, IBC, ICC, IECC AND ANY APPLICABLE CITY AND/OR STATE CODES AND ORDINANCES, THE AMERICANS WITH DISABILITIES ACT, E.P.A. REGULATIONS (INCLUDING EFACT 1992), ANSI STANDARDS, UL STANDARDS AS WELL AS ANY AND ALL UTILITY COMPANY REQUIREMENTS. THE FOREGOING CODES AND REGULATIONS ARE REQUIREMENTS AND ARE INCORPORATED IN THIS SPECIFICATION FOR THIS WORK BY REFERENCE. ALL INSTALLATIONS BY THE CONTRACTOR SHALL MEET LATEST ADOPTED CODES WITHOUT EXCEPTION.
 - THE CONTRACTOR SHALL COORDINATE AND PROVIDE INFORMATION AS REQUIRED TO ALL SERVING UTILITIES IN A TIMELY MANNER AND IS NECESSARY TO PROVIDE THE SERVICE REQUIRED AND MEET UTILITY REQUIREMENTS. IMMEDIATE COORDINATION WILL BE REQUIRED FOR MOST PROJECTS. FILE COORDINATE ALL REQUIREMENTS PRIOR TO TRENCING.
 - REFER TO ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL DRAWINGS AND/OR EQUIPMENT SUPPLIERS DRAWINGS AND SPECIFICATIONS FOR EXACT EQUIPMENT LOCATIONS, LOADS AND ADDITIONAL REQUIREMENTS. REPRESENTATIONS OF THE WORK SPECIFIC TO THE OTHER DISCIPLINES IS SHOWN ON THE ELECTRICAL DRAWINGS FOR CONVENIENCE ONLY AND SHALL NOT SOLELY BE RELIED UPON FOR THE PLACEMENT OF EQUIPMENT.
 - THE CONTRACTOR ASSUMES RESPONSIBILITY FOR ALL EQUIPMENT THEY SUPPLY. ALL EQUIPMENT SHALL BE INSTALLED STRICTLY PER MANUFACTURES' RECOMMENDATIONS. THE LISTING OF THE EQUIPMENT AND ALL CODES. OTHERWISE THE CONTRACTOR ASSUMES RESPONSIBILITY (AT THEIR COST) TO CORRECT AND REMEDY ANY INSTALLATION NOT IN COMPLIANCE WITH THE MANUFACTURES' RECOMMENDATIONS, LISTING(S) AND INTENTIONS AS INTERPRETED BY THE ENGINEER. SEE SECTION 2.3.
 - THE CONTRACTOR SHALL NOT ENGAGE IN THE RE-DESIGN OR "VALUE ENGINEERING" OF THIS PROJECT WITHOUT PRIOR WRITTEN APPROVAL FROM 120 DEGREEZ ENGINEERING AND THE OWNER. ALL DEVIATIONS FROM THESE DOCUMENTS ARE REQUIRED TO BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO INSTALLATION. THE ELECTRICAL CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY DEVIATION FROM THESE DOCUMENTS INCLUDING THE COST TO RE-DESIGN. ELECTRICAL CONTRACTOR, AT COMMENCEMENT OF WORK, ACCEPTS ALL REQUIREMENTS AND STIPULATIONS OUTLINED IN THE PROPOSAL PROVIDED BY 120 DEGREEZ ENGINEERING AND ACCEPTED BY THE PERSON IN RESPONSIBLE CHARGE OF THE PROJECT. ADDITIONALLY A DETAILED ACCOUNTING OF ANY DEVIATIONS MUST BE SUBMITTED TO 120 DEGREEZ ENGINEERING AND THE OWNER PRIOR TO COMMENCEMENT OF WORK FOR APPROVAL.
 - ANY VARIANCE OR EXCEPTIONS TO THE DRAWINGS AND SPECIFICATIONS MUST BE REQUESTED AND APPROVED IN WRITING. INTERIM VERBAL APPROVALS WILL ONLY BE PROVIDED WHEN THE ENGINEER DETERMINES THIS TO BE JUSTIFIED AND MUST BE CONFIRMED IN WRITING TO BE FINAL. ROUTE ALL RFIs, AND RFCs VIA GENERAL CONTRACTOR AND THROUGH THE ARCHITECT.
 - THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS, VARIANCES, AND APPROVALS, ETC. (AT THEIR COST) WHICH MAY BE REQUIRED FOR COMPLETION OF THIS WORK.
 - PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL LIGHT FIXTURES AND WIRING DEVICES TO INCLUDE MOUNTING HEIGHT AND LOCATIONS. ALL CONFLICTS SHALL BE REPORTED TO THE ENGINEER/ARCHITECT. PRIOR TO ROUGH-IN, FAILURE TO COORDINATE WILL REQUIRE THE CONTRACTOR TO FIX ERRORS AT HIS COST.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT AND SUPPORT FOR PROGRESS AND FINAL INSPECTIONS. THIS INCLUDES COMPLETE ACCESS TO ALL EQUIPMENT. ADDITIONALLY A COMPLETE SET OF SPARE FUSES FOR ALL FUSES USED AND A 10% SUPPLY OF ALL LIGHT BULBS PROVIDED IN FIXTURES (TO A MAXIMUM OF (1) CASE FOR EACH STYLE) SHALL BE PROVIDED TO THE OWNER AT FINAL INSPECTION.
 - RECONSTRUCTION (TO INCLUDE TENANT IMPROVEMENTS)**
 - ALL RECONSTRUCTION OF EXISTING FACILITIES AND EQUIPMENT SHALL REQUIRE COMPLETE RENOVATION (MAKE GOOD AS NEW) FOR ALL EXISTING EQUIPMENT UPON WHICH WORK IS INCLUDE THESE FOLLOWING REQUIREMENTS:
 - VERIFICATION OF EXISTING SES GROUNDING COMPLIANCE WITH NEC ARTICLE 250.
 - VERIFICATION OF CABLE SIZE AND AMPACITY OF EXISTING FEEDERS AND BRANCH CIRCUITS WITH NEC TABLE 310.15.
 - VERIFICATION OF EQUIPMENT GROUNDING CONDUCTORS PER NEC TABLE 250.122 AND GROUNDING AND BONDING OF LINE SIDE EQUIPMENT PER NEC TABLE 250.66.
 - VERIFICATION OF GROUNDING ELECTRODE SYSTEMS, ALL SYSTEM BONDING JUMPERS AND MAIN BONDING JUMPERS PER NEC ARTICLE 250.
 - VERIFICATION OF THE INTEGRITY OF THE GROUNDING AND BONDING SYSTEM AND VERIFY COMPLIANCE WITH NEC 250.4.
 - EXISTING LIGHT FIXTURES TO BE REUSED MUST BE CLEANED, RE-LAMPED, AND RESTORED TO "LIKE NEW" CONDITION.
 - EXISTING PANEL BOARDS, SWITCH BOARDS, AND TRANSFORMERS WHICH ARE INCLUDED IN THIS PROJECT SHALL HAVE PREVENTATIVE MAINTENANCE PREFORMED TO INCLUDE VERIFICATION OF ALL TERMINATIONS AS WELL AS CLEANING AND INSPECTION.
 - VERIFY PROPER WORKING CONDITION OF ALL EXISTING EMERGENCY FIXTURES AND EXIT SIGNS. REPAIR OR REPLACE AS REQUIRED.
 - IN THE EVENT THAT INSPECTION REVEALS DISCREPANCIES AND/OR NON-COMPLIANCE, THE OWNER AND THE ENGINEER SHALL BE NOTIFIED IN WRITING BEFORE MAKING ALL REQUIRED CORRECTIONS.
 - MATERIALS AND METHODS**
 - THE USE OF ELECTRICAL METALLIC TUBING (EMT) IS ACCEPTABLE IN ACCORDANCE WITH NEC ARTICLE 358. EMT FITTINGS SHALL BE COMPRESSION TYPE OR SET SCREW TYPE. EMT SHALL BE PROVIDED WITH AN ADDITIONAL COPPER GROUND WIRE SIZED PER NEC 250.122. MINIMUM TRADE CONDUIT SIZE SHALL BE 1/2". ALL HOME RUNS SHALL BE 3/4" TRADE SIZED EMT.
 - ALL CONDUITS INSTALLED UNDERGROUND SHALL HAVE PVC COATED G.R.C. ELBOWS NO EXCEPTIONS.
 - WHERE SYSTEMS FURNITURE IS INDICATED, THE MINIMUM NEUTRAL CONDUCTOR SIZE SHALL BE #10 A.W.G. COPPER.
 - CONDUCTORS SHALL BE 600V COPPER (99% CONDUCTIVITY). MINIMUM LINE VOLTAGE WIRE SIZE IS #12 A.W.G. ALL CONDUCTORS SHALL HAVE 90 DEGREE RATED INSULATION.
 - CONDUCTORS #6 AND SMALLER SHALL HAVE THHN/THHW-2 INSULATION. #4 AND LARGER SHALL HAVE XHHW-2 INSULATION.
 - ALL WIRING DEVICES SHALL BE MINIMUM 20 AMP SPECIFICATION GRADE. HUBBELL, LEVITON, AND PASS-SEYMORE ARE ACCEPTABLE EQUIVALENTS. ALL OUTLETS, SWITCHES, SPECIAL RECEPTACLES AND GROUND FAULT PROTECTION DEVICES SHALL BE PERMANENTLY MARKED WITH ENGRAVED COVER PLATES, STATING PURPOSE, CIRCUIT AND SOURCE PANEL AND VOLTAGE.
 - COVER PLATES SHALL BE NYLON (IVORY) IN OFFICE/COMMERCIAL OR LIVING AREAS, AND GALVANIZED STEEL IN WAREHOUSE/INDUSTRIAL/MANUFACTURING AREAS OR AREAS SUBJECT TO PHYSICAL ABUSE. INDUSTRIAL COVERS ARE REQUIRED FOR ALL MOUNTING APPLICATIONS.
 - ALL RACEWAYS AND CABLES ARE TO BE CONCEALED EXCEPT TO SURFACE MOUNTED PANELS AND AT THE CEILING OF EXPOSED STRUCTURE AREAS. CONDUITS WILL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
 - THE USE OF MC CABLE IS ACCEPTABLE IN ACCORDANCE WITH NEC ARTICLE 330, BUT LIMITED TO USE FOR BRANCH CIRCUITS ONLY. MC CABLE MAY NOT BE USED FOR HOME RUNS, WHERE SUBJECT TO PHYSICAL DAMAGE, IN DIRECT BURIAL (IN EARTH OR CONCRETE) SITUATION UNLESS UL LISTED AND SUITABLE FOR THE APPLICATION. MC CABLE MAY NOT BE RUN EXPOSED.
 - P.V.C. CONDUIT MAY BE USED ONLY IN OR UNDER SLABS AND IN CONCRETE OR MASONRY WALLS. INSTALLATIONS BELOW GRADE SHALL BE BURIED 24" (MIN) DEEP OR GREATER.
 - FUSES SHALL BE BUSSMAN, LITTLE FUSES, GOULD-SHAWMUT OR ENGINEER APPROVED EQUAL.
 - CONDUCTORS UP TO AND INCLUDING #10 AWG SHALL BE SOLID WITH CONTINUOUS COLOR CODED INSULATION. COLOR CODING SHALL COMPLY WITH THE NEC AND/OR LOCAL CODES OR POLICIES.
 - CONDUCTORS #8 AWG AND #6 AWG SHALL BE STRANDED WITH CONTINUOUS COLOR CODED INSULATION. COLOR CODING SHALL COMPLY WITH THE NEC AND/OR LOCAL CODES OR POLICIES.
 - SPlicing OF GROUNDING ELECTRODE CONDUCTORS, WATER AND BUILDING STEEL BONDS SHALL ONLY BE ALLOWED WITH EXOTHERMIC WELDING.
 - NEW CONDUCTORS SHALL BE CONTINUOUS AND WITHOUT SPLICE EXCEPT AT JUNCTION OR PULL BOXES.
 - DISTRIBUTION**
 - PANELBOARDS (EXISTING): ADD CIRCUIT BREAKERS AS REQUIRED FOR CIRCUITING MATCH PRECISELY BRAND AND A.I.C. RATING. TANDEM AND PIGGY-BACK BREAKERS ARE NOT PERMITTED. ALL LUGS OR CONNECTORS TO BE 90 DEGREE C RATED.
 - PANELBOARDS (NEW): TO BE RATED AS SHOWN ON DRAWINGS. PROVIDE NEMA ENCLOSURES AS REQUIRED BY CODE. CUTOUT BOXES TO BE ENLARGED FOR
 - ALL CONDUIT SUPPORT SYSTEMS SHALL BE INSTALLED ON THE BUILDING STRUCTURE. UNISTRUT, BEELINE, OR CADDY MOUNTING SYSTEMS ARE ACCEPTABLE. NO CONDUIT OR CABLE WILL BE SUPPORTED BY WIRES UTILIZED TO SUPPORT SUSPENDED CEILINGS OR BY "SLACK" WIRES USED AT LUMINAIRES OR AIR TERMINALS. PERFORATED STRAPS OR OTHER PIPING AND CONDUIT STRAPS ARE NOT ACCEPTABLE SUPPORTS.
 - ACCEPTABLE MANUFACTURES FOR SWITCH GEAR RELATED COMPONENTS ARE: SQUARE D, CHALLENGER, GENERAL ELECTRIC, SIEMENS, AND CUTLER-HAMMER.
 - CONDUCTORS SHALL BE COLOR CODED FOR BRANCH CIRCUITS IN ACCORDANCE WITH THE NEC AND LOCAL REQUIREMENTS. CONDUCTORS SHALL BE IDENTIFIED AS FOLLOWS EXCEPT AS AMENDED BY LOCAL AMENDMENTS:
 - 120/240 VOLT SINGLE PHASE: UNGROUNDED CONDUCTORS A-PHASE; BLACK, B-PHASE; RED, GROUNDED CONDUCTOR; WHITE.
 - 120/208 VOLT THREE PHASE GROUNDED AND UNGROUNDED SYSTEMS: UNGROUNDED CONDUCTORS, A-PHASE; BLACK, B-PHASE; RED, C-PHASE; BLUE, GROUNDED CONDUCTOR; WHITE (WHERE USED).
 - 120/240 VOLT THREE PHASE GROUNDED AND UNGROUNDED SYSTEMS: UNGROUNDED CONDUCTORS, A-PHASE; BLACK, B-PHASE; ORANGE, C-PHASE; BLUE, GROUNDED CONDUCTOR; WHITE.
 - 277/480 VOLT THREE PHASE GROUNDED AND UNGROUNDED SYSTEMS: UNGROUNDED CONDUCTORS, A-PHASE; BROWN, B-PHASE; ORANGE, C-PHASE; YELLOW, GROUNDED CONDUCTOR; GRAY.
 - EQUIPMENT GROUNDING OR BONDING CONDUCTORS SHALL BE GREEN OR BARE. ISOLATED GROUNDING CONDUCTORS SHALL BE GREEN WITH A YELLOW STRIPE.
 - INSTALLATIONS FOR EQUIPMENT SUBJECT TO VIBRATION, SUCH AS MOTORS AND TRANSFORMERS, SHALL HAVE CONDUCTORS INSTALLED IN 'SEAL TIGHT' OR LIQUID TIGHT FLEXIBLE CONDUIT WITH GASKETED CONNECTORS AND FITTINGS.
 - PROVIDE RUBBER VIBRATION DAMPING PADS FOR ALL MOTORS AND TRANSFORMERS, AND ALL VIBRATION PRODUCING EQUIPMENT.
 - ALL CONDUITS, RACEWAYS AND CABLES, REGARDLESS OF VOLTAGE, SHALL HAVE AN INSULATED BOND WIRE, SIZED BY EITHER NEC TABLE 250.66 (LINE SIDE) OR 250.122 (LOAD SIDE), WHERE APPLICABLE, INSTALLED AND PROPERLY TERMINATED WITH THE PHASE CONDUCTORS. CONDUIT IS NOT AN ACCEPTABLE GROUNDING OR BONDING METHOD PER THESE DOCUMENTS.
 - ALL DIMMERS AND DIMMER SWITCHES SHALL BE OF THE SLIDE TYPE AND RATED FOR CONTINUOUS DUTY OF 1000 WATTS MINIMUM. THE CONTRACTOR SHALL VERIFY IN THE FIELD, THE ACTUAL LOAD OF THE LIGHTING (SPECIFICALLY, BUT NOT LIMITED TO, TRACK LIGHTING) AND INSTALL DIMMERS OF PROPER WATTAGE.
 - ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL CIRCUIT NUMBERS AT JUNCTION, OUTLET, SWITCH OR PULL BOXES WITH PERMANENT MARKER ON THE INSIDE OF THE BOX COVER OR TRIM PLATE.
 - SUBMITTALS**
 - SUBMIT 6 SETS OF SHOP DRAWINGS AND SAMPLES FOR ALL EQUIPMENT PRIOR TO ORDERING AND IN A TIMELY MANNER. SUBMITTALS SHALL INCLUDE LIGHT FIXTURES (INCLUDING LIGHT POLES), SWITCHBOARDS, PANELBOARDS, STARTERS, HVAC ELECTRICAL EQUIPMENT AND TRANSFORMERS. DESIGN BUILD ARE EXEMPT FROM SUBMITTAL REQUIREMENTS.
 - SHOP DRAWINGS SHALL INCLUDE LAYOUT DIMENSIONS AND IDENTIFICATION OF SPECIFIC EQUIPMENT FOR INSTALLATION, MINIMUM NEC CLEARANCES (E.G. 110.26) SHALL BE INDICATED.
 - THE CONTRACTOR SHALL INCLUDE COMPARISON DATA AND SAMPLES FOR BOTH THE SUBSTITUTE AND SPECIFIED ITEMS WHEN SUBSTITUTIONS ARE PROPOSED. THE CONTRACTOR REMAINS RESPONSIBLE TO PROVIDE THE ORIGINALLY SPECIFIED EQUIPMENT IN ACCORDANCE WITH THE ORIGINAL DELIVERY DATE (AT THEIR COST) WHEN SUBSTITUTIONS ARE NOT APPROVED.
 - THE CONTRACTOR SHALL PROVIDE PROOF OF PERFORMANCE BOND WITH HIS INITIAL SUBMITTALS (E.G. SHOP DRAWINGS) TO INCLUDE A WARRANTY FOR THE WARRANTY PERIOD (2 YEARS).
 - THE CONTRACTOR SHALL SUBMIT COMPLETE AND ACCURATE "AS BUILT" DRAWING TO THE OWNER AND ENGINEER WITHIN 2 WEEKS OF OWNER ACCEPTANCE. PROVIDE (4) SETS OF BLUE LINES OR REPRODUCIBLE OF SAID PLANS.
 - PROVIDE A LETTER TO THE OWNER AND ENGINEER CERTIFYING ALL EQUIPMENT AND TERMINATION'S ARE TORQUED PER THE LISTING OF THE EQUIPMENT. THIS CERTIFICATION SHALL BE EXECUTED BY A LICENSED CONTRACTOR, AND WRITTEN CERTIFICATION PROVIDED ON COMPANY LETTERHEAD.
 - PROVIDE COPIES OF ALL MANUFACTURER/SUPPLIER WARRANTIES AND GUARANTEES TO THE OWNER WITHIN 2 WEEKS OF FINAL ACCEPTANCE BY THE OWNER.
 - TESTING**
 - SUBMIT A COPY OF ALL TEST RESULTS FOR THE ELECTRICAL POWER DISTRIBUTION SYSTEM AS A COMPLETE PACKAGE TO THE OWNER AND ENGINEER. PACKAGE MUST PROVIDE SPECIFIC VALUES OF TEST DATA OBTAINED AGAINST ACCEPTANCE CRITERIA (SIMPLE PASS/FAIL ALONE IS INADEQUATE). TESTING PERSONAL SHALL BE CERTIFIED BY INTERNATIONAL ELECTRIC TESTING ASSOCIATION (NETA) OR NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET).
 - GROUNDING SYSTEM FALL-OF-POTENTIAL (RESISTANCE TO GROUND) SHALL PROVIDE LESS THAN 25 OHMS RESISTANCE TO GROUND AND LESS THAN .5 OHMS POINT TO POINT BETWEEN THE MAIN GROUNDING ELECTRODE SYSTEM AND MAJOR ELECTRICAL EQUIPMENT FRAMES, SYSTEM NEUTRAL, AND/OR DERIVED NEUTRAL POINTS. (REF IEEE STANDARD 81-1991 AND 142). SHALL NOT BE PERFORMED WITHIN 96 HOURS OF RAIN FALL.
 - OVER POTENTIAL (HIGH POTENTIAL) TESTING ON BUSSES GREATER THAN 1000 AMPS (OR MODIFICATION OF SERVICES) GREATER THAN 400 AMPS AND EACH PHASE TO GROUND IN ACCORDANCE WITH SWITCH GEAR / SWITCH BOARD MANUFACTURES RECOMMENDATIONS FOR ONE MINUTE. THE INSULATION SHALL WITHSTAND THE OVER POTENTIAL TEST VOLTAGE APPLIED.
 - GROUND-FAULT PROTECTION SYSTEM SHALL BE TESTED USING PRIMARY INJECTION FOR PICK UP TESTS. RELAY TIMING SHALL BE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 - PROVIDE TWO COPIES OF ACCEPTANCE OF FIRE ALARM SYSTEM BY LOCAL FIRE AUTHORITY.
 - INSULATION RESISTANCE (MEGGER) (AC AND DC (1000V) FOR ONE MINUTE) SHALL PROVIDE 50 MEGOHMS OR GREATER. TESTING MAY BE PERFORMED BY CONTRACTOR, WITH WRITTEN CERTIFICATION BY LICENSED CONTRACTOR.
 - WARRANTY**
 - THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FURNISHED BY THEM UNDER THIS CONTRACT FOR A PERIOD OF (2) YEARS FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER. ANY DEFECTS DEVELOPING DURING THE WARRANTY PERIOD TRACEABLE TO MATERIALS OR WORKMANSHIP SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
 - THE ENGINEER AND OWNER RETAIN THE RIGHT TO REQUIRE REMOVAL AND INSTALLATION OF ANY MATERIAL OR EQUIPMENT NOT IN COMPLIANCE WITH THE PROVISIONS AND STANDARDS OF THESE DRAWINGS AND SPECIFICATIONS. NO CLAIM FOR ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK PERFORMED IN THIS REGARD.
 - THE CONTRACTOR AGREES TO TRANSFER ALL MANUFACTURERS/SUPPLIERS WARRANTIES AND GUARANTEES TO THE OWNER. THIS INCLUDES COMPLETION OF ALL DOCUMENTATION FOR THE MANUFACTURER/SUPPLIER.
 - SERVICE**
 - PROVIDE AND INSTALL NEW SERVICE SECTION AS SHOWN ON DRAWINGS. SES SHALL BEAR U.L. LABEL, HAVE COPPER BUSSING - SILVER PLATED AND AMPERAGE RATING AS SHOWN ON DRAWINGS. METERING AND PRIMARY PULL SECTION SHALL BE BARRIERED FROM OTHER WORK AND APPROVED BY BOTH THE LOCAL UTILITY COMPANY AND AUTHORITY HAVING JURISDICTION.
 - GROUND FAULT PROTECTION SHALL BE PROVIDED FOR SERVICES RATED 150 VOLTS TO GROUND OR GREATER ON ALL SERVICE DISCONNECTS GREATER THAN 1000A.
 - GROUND FAULT PROTECTION ON MAINS AND SUB-MAINS MUST HAVE AUDIBLE/VISIBLE ALARMS.
 - ENCLOSURES SHALL MEET UL & PUBLIC UTILITY REQUIREMENTS BARRIERED BETWEEN SECTIONS, LINE AND LOAD, BOTH BARRIERED.
 - NO COVERS GREATER THAN 1/3 HEIGHT OF EQUIPMENT.
 - FULL-SIZED NEUTRAL BUSSING AND NON-TAPERED BUSSING WILL BE STANDARD. ALL SPACE WILL BE FULLY BUSSED FOR FUTURE. ALL BUSSING WILL BE PHYSICALLY BARRIERED.
 - ENCLOSURES SHALL MEET UL & PUBLIC UTILITY REQUIREMENTS BARRIERED BETWEEN SECTIONS, LINE AND LOAD, BOTH BARRIERED.
 - ALL SERVICES SHALL BE PROVIDED WITH A PERMANENTLY ATTACHED, ENGRAVED PLATE SHOWING S.E.S. BUSSING TO INCLUDE ALL TORQUE VALUES FOR PREVENTATIVE MAINTENANCE PURPOSES.
 - ALL SERVICES SHALL BE LISTED FOR FRONT ACCESSIBILITY ONLY, WHERE LOCATED ON WALLS, ALL OTHERS SHALL BE FRONT.
 - ALL SERVICE DOORS SHALL BE HINGED AND LOCKABLE.
 - NEW SERVICE INSTALLATIONS FOR MULTI-TENANT FACILITIES WITH MULTIMETER SERVICES, SHALL HAVE ALL UNDERGROUND CONDUITS INSTALLED IN THE APPROPRIATE SERVICE SECTION. DO NOT INSTALL CONDUITS WHERE THERE EXISTS A POSSIBILITY OF IMPROPER CABLE ROUTING TO OTHER SECTIONS.
 - DISTRIBUTION**
 - PANELBOARDS (EXISTING): ADD CIRCUIT BREAKERS AS REQUIRED FOR CIRCUITING MATCH PRECISELY BRAND AND A.I.C. RATING. TANDEM AND PIGGY-BACK BREAKERS ARE NOT PERMITTED. ALL LUGS OR CONNECTORS TO BE 90 DEGREE C RATED.
 - PANELBOARDS (NEW): TO BE RATED AS SHOWN ON DRAWINGS. PROVIDE NEMA ENCLOSURES AS REQUIRED BY CODE. CUTOUT BOXES TO BE ENLARGED FOR
 - DOUBLE NEUTRALS AND LUGS AND SHALL BE SIZED TO ACCOMMODATE ISOLATED GROUND BUSS AND NORMAL GROUND BUSS. ALL TERMINATIONS OR CONNECTORS TO BE RATED 75 DEGREE CENTIGRADE MINIMUM.
 - CIRCUIT BREAKERS WILL BE SWITCH RATED AND AMBIENT COMPENSATED FOR ALL CIRCUITS. PROVIDE SWITCHED NEUTRALS ON ALL CIRCUIT BREAKERS PANELS/CIRCUIT BREAKERS SHALL BE RATED FOR CONTINUOUS DUTY.
 - ALL EQUIPMENT (PANELS, DISCONNECT SWITCHES, STARTERS, ETC.) WILL BE MARKED WITH BLACK ENGRAVERS STOCK TAGS EMBOSSED WITH 1/4" HIGH LETTERS DESCRIBING EACH ITEM. CONDUCTORS WILL BE MARKED AT ALL TERMINATION AND JUNCTION POINTS (PANELS, JUNCTION BOXES, SPLICES, ETC.) WITH LABELS BEARING THE PANEL AND CIRCUIT NUMBER WHICH FEEDS EACH CONDUCTOR (PER NEC 210.4, 300.3).
 - ALL PANELBOARDS WILL HAVE TYPED DIRECTORY CARDS IDENTIFYING ALL CIRCUITS AND SPACES REVISED, IF NECESSARY, FOR THIS WORK. EXISTING PANEL/PANELBOARDS SHALL HAVE EACH EXISTING CIRCUIT TRACED AND VERIFIED. UPDATE PANEL DIRECTORY AS NEEDED.
 - TRANSFORMERS 15 KVA AND ABOVE SHALL BE 150 DEGREE CENTIGRADE TEMPERATURE RISE ABOVE 40 DEGREE CENTIGRADE AMBIENT. ALL INSULATING MATERIALS TO BE IN ACCORDANCE WITH NEMA ST20-1972 STANDARDS FOR A 220 DEGREE C. UL COMPONENT RECOGNIZED INSULATION SYSTEM. SINGLE PHASE TRANSFORMERS 15 KVA THROUGH 167 KVA, AND THREE PHASE TRANSFORMERS THROUGH 112.5 KVA SHALL BE DESIGNED SO THEY CAN BE EITHER FLOOR OR WALL MOUNTED. THE TRANSFORMER SHALL BE LISTED BY UNDERWRITERS LABORATORY FOR THE SPECIFIED TEMPERATURE RISE.
 - LABEL ALL PANELS/TRANSFORMERS/DISCONNECTS WITH "WARNING" - ELECTRICAL EQUIPMENT - DANGER - QUALIFIED PERSONNEL ONLY TO OPERATE AND OPEN EQUIPMENT.
 - ALL ELECTRICAL EQUIPMENT INCLUDING SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS SHALL BE MARKED IN ACCORDANCE WITH NEC ARTICLE A110.16 FOR FLASH HAZARD. (REFERENCE NFPA #70E-2000 AND ANSI #Z235.4-1998).
 - DISCONNECT SWITCHES SHALL BE HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK, HORSEPOWER RATED, NEMA 1 INDOOR, NEMA 3R GASKETED, (4X) NEMA 12, OR NEMA 7 AS APPROPRIATE WITH CLASS RK-1 BUSSMAN FUSES AND REJECTION CLIPS, SIZED AS SHOWN ON DRAWINGS. PROPER DISCONNECTS PER N.E.C. WILL BE PROVIDED FOR EACH PIECE OF ELECTRICAL EQUIPMENT.
 - MANUAL MOTOR STARTERS WITH THERMAL OVERLOADS WILL BE PROVIDED FOR MOTORS 1/2 HP TO 1 HP. SQUARE 'D' CLASS 2510, 2511, 2512 OR EQUAL. AMBIENT COMPENSATED AS REQUIRED.
 - MAGNETIC MOTOR STARTERS WITH THERMAL OVERLOADS, (2) AUXILIARY CONTACT SWITCHES, INTERNAL LINE VOLTAGE TO 24 VOLT TRANSFORMER (250V/A, MIN) WITH PROPER PRIMARY/SECONDARY PROTECTION, AMBIENT COMPENSATED, GREEN RUNNING LIGHT, HAND-OFF-AUTO, ACROSS THE LINE STARTERS TO 25HP. WILL BE PROVIDED WITH EACH MOTOR AS SHOWN ON THE DRAWING (ONE HORSEPOWER TO 25 H.P.).
 - ALL PANELBOARDS SHALL HAVE HINGED, LOCKABLE COVERS. ALSO SEE SECTION 7.4.
 - LUMINAIRES**
 - FURNISH AND INSTALL ALL LUMINAIRES COMPLETE WITH LAMPS, WHIPS AND ACCESSORIES. ALL RECESSED LUMINAIRES WILL BE RATED FOR USE IN ANY CEILING APPLICATIONS AND BE THERMALLY PROTECTED.
 - MOUNTING TYPE AND VOLTAGE OF LUMINAIRES IS THE RESPONSIBILITY OF THE CONTRACTOR. (4) EARTHQUAKE CLIPS WILL BE INSTALLED ON EACH FIXTURE MOUNTED IN GRID OR FLANGE TYPE CEILINGS. FLUORESCENT FIXTURE LENSES WILL BE 100% ACRYLIC, .125" THICK MINIMUM.
 - ALL LUMINAIRES TO BE INSTALLED IN SYMMETRICAL MANNER FREE FROM LIGHT LEAKS AND DIRTY LENSES OR REFLECTORS.
 - ALL LAY-IN LUMINAIRES IN



No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

LIGHTING SCHEDULE

 Project Number: 6360
 Sheet Number: E0.03
 Drawn By: EU
 Issue Date: 02/12/2024
 DPM: - DM: - CPM: -

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	VOLTS
Lx01		(1) LED	SINGLE HEAD POLE LIGHT	POLE	LITHONIA DSXO LED P3 30K 80CRI BLC3 MVOLT	69	120V 1P 2W
Lx02		(1) LED	SINGLE HEAD POLE LIGHT	POLE	LITHONIA DSXO LED P3 30K 80CRI RCC0 MVOLT	69	120V 1P 2W
Lx03		(1) LED	SINGLE HEAD POLE LIGHT	POLE	LITHONIA DSXO LED P3 30K 80CRI LCC0 MVOLT	69	120V 1P 2W
Lx04		(1) LED	4" CORNER MOUNT LINEAR LED LUMINAIRE	SURFACE	BARTCO LIGHTING BSW755-4-30-ID-H-SM-SN-AW	41.2	120V 1P 2W
Lx05		(1) LED	EXTERIOR GOOSE NECK LIGHT	WALL	TROY RLM LIGHTING LBLED14BB-3	17.32	120V 1P 2W
Lx06		(1) LED	EXTERIOR WALL SCONCE	WALL	WAC LIGHTING WS-W1371B	10.8	120V 1P 2W
Lx07		(1) LED	EXTERIOR WALL MOUNTED LED WITH 90 MINUTE EMERGENCY BATTERY PACK	WALL	LUMINAIRE LED BLD 36IN 15W 30K MVOLT EMB310ST	14.7	120V 1P 2W
Lx08		(2) LED	EXTERIOR TRELLIS SCONCE	WALL	CAMMAN LIGHTING OW610-24-LN-30K	20	120V 1P 2W
Lx09		(1) LED	BOLLARD LIGHT	SURFACE	ZANEEN TETRA L9B134-3000K	28	120V 1P 2W

NOTE:

ALL FIXTURES (NO EXCEPTIONS) TO BE OBTAINED THROUGH NATIONAL ACCOUNT AT:
 STANDARD ELECTRICAL SUPPLY COMPANY
 #14 JEWEL DRIVE
 WILMINGTON, MA 01887
 CONTACT: PANERA ACCOUNT REPRESENTATIVE 800-370-5050 x3176

CITY LIGHTING
 4307 WEST PAPIN ST.
 ST. LOUIS, MO 63110
 CONTACT: MIKE CANTY 314-534-1090

LIGHTING FIXTURES GENERAL NOTES

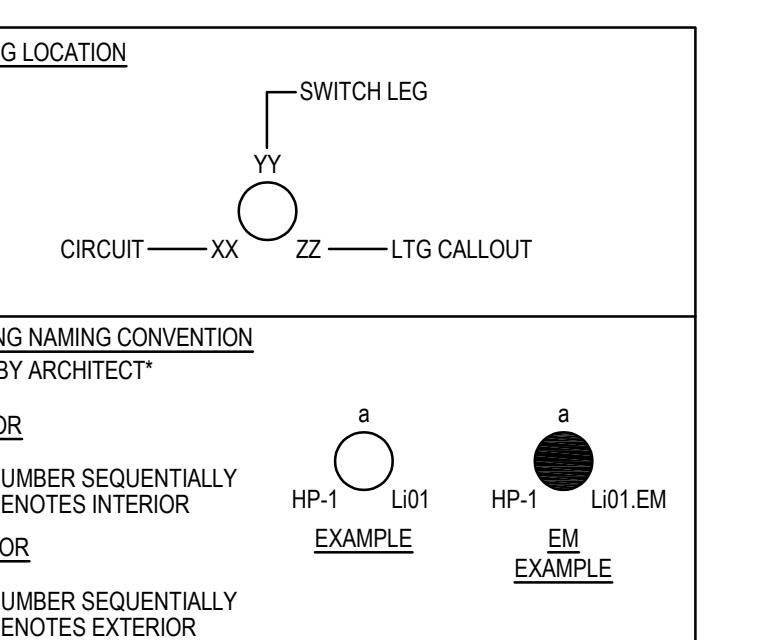
1. FIXTURES SHALL HAVE APPROPRIATE UL LABEL, DAMP, OR WET AS REQUIRED BY CODES AND ORDINANCES.
2. LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE ALL NECESSARY HARDWARE AS REQUIRED BY THE SPECIFICATIONS, DRAWINGS, AND PROJECT CONDITIONS FOR A COMPLETE AND OPERABLE INSTALLATION.
3. PRIOR TO ORDERING ANY LIGHTING EQUIPMENT, CONTRACTOR SHALL COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND PRIOR TO ORDERING ANY LIGHTING EQUIPMENT, THE CEILING CAVITY DEPTHS.
4. CONTRACTOR SHALL VERIFY FIXTURE VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURE.
5. PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTING FIXTURES LOCATED IN FIRE-RATED CEILINGS AND/OR WALLS.
6. UPON INITIAL ENERGIZING OF ALL NEW FLUORESCENT LAMPS, A CONTINUOUS PERIOD OF 30 HOURS SHALL OCCUR PRIOR TO DE-ENERGIZING OF LAMPS, FOR MANUFACTURER REQUIRED LAMP BURN-IN AND MAXIMUM LAMP LIFE.
7. ENSURE COMPATIBILITY OF ALL LIGHTING SYSTEM COMPONENTS SUCH AS DIMMING SYSTEMS, FIXTURES, LAMPS, BALLAST(S), AND DIMMING SYSTEMS/INDIVIDUAL CONTROLS MUST BE FACTORY CERTIFIED COMPATIBLE FOR FULL RANGE OF DIMMING COMPATIBILITY.
8. PROVIDE CLEARANCES FROM COMBUSTIBLES A MINIMUM OF 1/2" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR RECESSED LIGHTING FIXTURES WHICH ARE NON-IC RATED.
9. PROVIDE A MINIMUM OF TWO (2) #12 SUPPORT WIRES ATTACHED TO BUILDING FRAME IN ADDITION TO T-BAR CLIPS FOR FLUORESCENT FIXTURES RECESSED IN SUSPENDED T-BAR CEILING.
10. PROVIDE (4) SHEET METAL SCREWS, ONE INSTALLED IN EACH CORNER OF THE FIXTURE ATTACHING THE FIXTURE TO THE GRID. SCREWS SHALL NOT BE VISIBLE NOR IMPEDE INSTALLATION OF GRID PANELS.
11. PROVIDE DOOR-TO-FRAME AND LENS-TO-DOOR GASKETING, INVERTED LENS, AND FOOD SERVICE RATING FOR ALL FIXTURES LOCATED IN FOOD SERVICE AREAS.
12. LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THIS FIXTURE SCHEDULE AND PROJECT SPECIFICATIONS. ENSURE COMPATIBILITY BETWEEN FIXTURE, LAMP AND BALLAST(S).
13. APPROVED LAMP MANUFACTURERS ARE OSRAM, SYLVANIA, GE, VENTURE (METAL HALIDE ONLY), AND PHILLIPS - NO EXCEPTIONS.
14. FIXTURES SHALL BE ORDERED WITH APPROPRIATE BALLAST(S) THAT HAVE UL AND CBM LABELS. ALL BALLASTS MUST CONFORM TO TITLE 24 REQUIREMENTS FOR PERFORMANCE AND EFFICIENCY.
15. FLUORESCENT FIXTURES TO BE SUPPLIED WITH "QUICK DISCONNECT" SAFETY BALLAST HARDWARE WHICH ARE UL AND CSA CERTIFIED IN ACCORDANCE WITH NEC 410.7(G) AND CEC 30-308(4).
16. FLUORESCENT AND HIGH INTENSITY DISCHARGE BALLASTS SHALL BE ELECTRONIC TYPE. PROVIDE END OF LIFE (EOL) SHUT-DOWN PROTECTION FOR COMPACT FLUORESCENT LAMPS.
17. FIXTURES, TRIMS, REFLECTORS, AND LAMPS SHALL BE CLEANED AND FREE FROM DIRT, DUST, LABEL ADHESIVE, AND FINGER PRINTS.
18. ALL LIGHT FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS AND ALL LOCAL, STATE, AND NATIONAL ELECTRICAL CODES. PROVIDE ALL REQUIRED SEISMIC BRACING FOR SUSPENDED LIGHT FIXTURES.
19. PROVIDE LIGHT FIXTURE MOUNTING KITS AS REQUIRED TO SUIT THE EXACT TYPE OF CEILING TO WHICH THEY ARE MOUNTED.
20. COORDINATE FIXTURE AND TRIM FINISHES WITH ARCHITECT PRIOR TO ORDERING.
21. EACH DIMMED CIRCUIT SHALL CARRY A SEPARATE NEUTRAL CONDUCTOR WITH TRACER COLOR TO MATCH PHASE CONDUCTOR.

TANDEM WIRING NOTES:

22. PROVIDE MULTIPLE BALLASTS FOR DUAL-LEVEL SWITCHING AND WIRING (i.e. TANDEM) AS INDICATE ON THE PLANS.
23. LAMP FIXTURES TO BE TANDEM WIRED W/ ELECTRONIC BALLAST CONFIGURATION AS FOLLOWS:
 - 23.1. "M" DENOTES MASTER FIXTURE W/ 1-4 LAMP ELECTRONIC BALLAST TO SUPPLY 2-OUTSIDE LAMPS IN EACH THE "M" & "S" FIXTURE.
 - 23.2. "S" DENOTES SLAVE FIXTURE W/ 1-2 LAMP ELECTRONIC BALLAST TO SUPPLY 1-INSIDE LAMP IN EACH THE "M" & "S" FIXTURE.
 - 23.3. "O" DENOTES ODD FIXTURE (NO PAIR) W/ 1-2 LAMP & 1-LAMP ELECTRONIC BALLAST.

SUBSTITUTION NOTES

1. ALL SUBSTITUTIONS MUST BE APPROVED BY THE OWNER, ARCHITECT AND THE ELECTRICAL ENGINEER. PRIOR TO CONSIDERING ANY SUBSTITUTIONS, THE FOLLOWING MUST BE PROVIDED (15) DAYS PRIOR TO BID TIME:
 - 1.1. COMPLETE AND OPERABLE SAMPLES OF SUBSTITUTIONS CONTAINING 120V CORD AND PLUG CONNECTIONS ALONG WITH CURRENT MANUFACTURER'S DATA SHEETS.
 - 1.2. PHOTOMETRIC STUDIES UTILIZING IES STANDARD PHOTOMETRIC DATA AND SOFTWARE FOR THIS PROJECT USING PROPOSED SUBSTITUTION FIXTURES TO ENSURE DESIGN INTENT IS MET. LUMEN OUTPUT AND LIGHT LOSS FACTOR VALUES TO BE DICTATED BY THE ELECTRICAL ENGINEER FOR THIS STUDY.
 - 1.3. WHEN APPLICABLE, PHOTOMETRIC STUDIES OF EMERGENCY LIGHTING APPLICATIONS ARE REQUIRED FOR AREAS IN THIS PROJECT UTILIZING PROPOSED SUBSTITUTIONS. BATTERY PACK LUMEN OUTPUT VALUES TO BE BASED ON EMERGENCY LIGHTING NOTES CONTAINED HEREWITHE.



GENERAL LIGHTING NOTES

1. DURING EMERGENCY CONDITIONS EMERGENCY LIGHTING CIRCUITS SHALL BYPASS ALL LIGHTING CONTROLS IN ORDER TO ENERGIZE ALL CONNECTED LUMINARIES AT FULL CAPACITY. PROVIDE UL924 RELAYS AS REQUIRED TO BYPASS ROOM CONTROLS.
2. ASSURE COMPATIBILITY OF DIMMERS WITH CONTROLLED LUMINARIES PRIOR TO PURCHASING.
3. LIGHTING CONTROLS SHALL BE INSTALLED WHICH MEET ALL REQUIREMENTS OF THE 2022 CA ENERGY CODE.
4. AUTOMATIC LIGHTING SHUT-OFF CONTROLS TO BE PROVIDED BY LOCAL OCCUPANCY SENSORS UNLESS OTHERWISE NOTED. APARTMENT PUBLIC SPACES ARE ACTIVE 24/7 AND THEREFORE EXEMPT FROM AUTOMATIC LIGHTING SHUT-OFF REQUIREMENTS.
5. DAYLIGHT ZONES ARE REFERRED TO AS 'PRIMARY' AND 'SECONDARY' ON PLANS AND DENOTED BY DASHED LINES.
6. LOCATIONS OF OCCUPANCY SENSORS, PHOTO SENSORS, SWITCHES, AND DIMMERS ARE DIAGRAMMATIC. CONTRACTOR TO FIELD-IDENTIFY OPTIMAL LOCATIONS AND QUANTITIES.
7. FOR CUSTOM FF&E FIXTURES, IT IS THE MANUFACTURER'S RESPONSIBILITY TO FURNISH PRODUCTS WHICH ARE COMPLIANT WITH ALL 2022 CALIFORNIA TITLE 24 REQUIREMENTS, AS WELL AS MATCH THE ELECTRICAL SPECIFICATIONS PROVIDED IN THE LUMINARIES SCHEDULES. PROVIDE SUBMITTAL SHOP DRAWINGS WITHIN 30 DAYS OF RECEIVING FIXTURE ORDER. SUBMITTALS SHALL CLEARLY INDICATE LAMPING AND MAXIMUM WATTAGE RATING OF LAMP SOCKETS. NON-COMPLIANT FIXTURES REJECTED BY ELECTRICAL INSPECTOR SHALL BE RETURNED TO THE MANUFACTURER FOR REWORKING AND/OR RE-LABELING.

SWITCH SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION
0-2 HOUR TIMER		0-2 HOUR DIGITAL TIMER SWITCH, SENSOR SWITCH PTS 60710, OR EQUAL, FOR CLOSET 70 SQFT OR LESS
PHOTOCELL SENSOR		CEILING MOUNTED CLOSED LOOP DAYLIGHT SENSOR. PHOTOCELL FOR DAYLIGHT ZONE CONTROL SHALL AUTOMATICALLY ADJUST THE LIGHT OUTPUT OF ALL CONNECTED LUMINARIES BASED ON THE DAYLIGHT LEVEL IN THE SPACE
GENERIC SWITCH		TOGGLE SWITCH FOR MANUAL ON/OFF LIGHTING CONTROL. SUBSCRIPT INDICATE SWITCH FIXTURES ARE TO BE CONTROLLED BY WHICH SWITCH
LOW VOLTAGE KEYPAD		LOW VOLTAGE KEYPAD CONNECTED TO LIGHTING CONTROL SYSTEM. NUMBER OF PUSH BUTTONS AS REQUIRED - REFER TO AV SCHEDULES
OCC SENSOR (LOW VOLTAGE)		OCCUPANCY SENSOR SHALL TURN OFF ALL CONNECTED LUMINARIES WITHIN 30 MINUTES OF SPACE BEING VACANT. (CEILING MOUNTED AND WALL MOUNTED)
THREEWAY SWITCH		3 WAY LINE VOLTAGE SWITCH
DIMMER SWITCH		DIMMER SWITCH FOR MANUAL MULTI-LEVEL LIGHTING CONTROL. SWITCH SHALL ALSO HAVE MANUAL ON/OFF FUNCTIONALITY. SUBSCRIPT INDICATES WHICH FIXTURES ARE TO BE CONTROLLED BY WHICH DIMMER
VACANCY SWITCH		VACANCY SWITCH SHALL TURN OFF ALL CONNECTED LUMINARIES WITHIN 30 MINUTES OF SPACE BEING VACANT. (WALL MOUNTED)

LIGHTING CONTROL SYSTEM REQUIREMENTS

1. CONTRACTOR TO PROVIDE A FULLY OPERATIONAL LIGHTING CONTROL SYSTEM.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH A LIGHTING CONTROLS VENDOR TO OBTAIN LIGHTING CONTROL SYSTEM PACKAGE COMPLETE WITH DEVICES, WIRING DIAGRAMS, ANNOTATED PLANS INDICATING WHICH DEVICE TO BE USED IN EACH LOCATION, CONNECTION REQUIREMENTS, SET UP INSTRUCTIONS, COMMISSIONING AND CHECK-OUT FOLLOWING COMPLETION. PROVIDE ALL LOW VOLTAGE WIRING AS REQUIRED FOR CONTROL DEVICE.
3. CONTRACTOR TO PROVIDE DIMMING AND SWITCHING SYSTEM. ACCEPTABLE MANUFACTURERS INCLUDE N-LIGHT, LUTRON, CRESTRON, LEVITON, PHILIPS, AND WATTSTOPPER.
4. PROVIDE LIGHTING CONTROL PANEL (LCP) TO PERFORM THE FUNCTIONS DESCRIBED BELOW.
5. CONTROL EXTERIOR LIGHTING BASED ON ASTRONOMIC TIMECLOCK SCHEDULING. WHERE REQUIRED, OUTDOOR LIGHTING WILL INCORPORATE LOCAL MOTION DETECTOR/DIMMING CONTROLS.
6. INTERIOR PRIMARY AND SECONDARY DAYLIGHT HARVESTING CONTROL PER ENERGY CODE.
7. PROVIDE MULTI-SCENE DIMMING FOR MORNING, DAY AND NIGHT MODES. INSTALLER TO COORDINATE SCENE CONFIGURATIONS WITH HOTEL MANAGER.
8. PROVIDE PUSHBUTTON CONTROL STATIONS FOR SELECTING LIGHTING SCENES. REFER TO LOCATIONS AND QUANTITY ON PLANS.
9. DEMAND RESPONSIVE CONTROL: LCP SHALL BE CAPABLE OF RECEIVING AND RESPONDING TO AT LEAST ONE STANDARDS BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND RESPONSE SIGNAL. LCP SHALL BE CAPABLE OF LOWERING THE BUILDING'S TOTAL LIGHTING POWER BY A MINIMUM OF 15% BELOW THE TOTAL INSTALLED LIGHTING POWER. LIGHTING SHALL BE REDUCED IN A MANNER CONSISTENT WITH UNIFORM LEVEL OF ILLUMINATION REQUIREMENTS IN TABLE 130.1-A.
10. PROVIDE DIMMING AND SWITCHING CHANNELS AS INDICATED IN LIGHTING CONTROL SCHEDULE.
11. CONTRACTOR TO PROVIDE WIRING FROM BRANCH PANEL CIRCUIT BREAKER TO TERMINALS ON LCP AND THEN TO LOADS THROUGHOUT FACILITY.
12. CONTRACTOR TO PROVIDE ALL LIGHTING CONTROL SENSORS AND ASSOCIATED LINE-VOLTAGE AND LOW-VOLTAGE WIRING ASSOCIATED WITH LIGHTING CONTROLS.
13. LIGHTING CONTROLS VENDOR TO PROVIDE SHOP DRAWINGS INCLUDING FLOOR PLANS AND WIRING DIAGRAMS FOR USE BY INSTALLING ELECTRICIAN.
14. LIGHTING CONTROLS VENDOR TO PROVIDE ON-SITE PRE-WIRE VISIT AND INSTRUCT THE CONTRACTOR HOW TO INSTALL THE PANEL, CONTROLS AND WIRING.
15. CONTRACTOR TO PROVIDE LOW-VOLTAGE CABLES AS DIRECTED AND APPROVED BY LIGHTING CONTROLS MANUFACTURER.



GENERAL POWER NOTES

- REFER TO ELECTRICAL SHEET E0.00 FOR ADDITIONAL ELECTRICAL NOTES AND ABBREVIATIONS.
- DRAWING SHOWS THE DESIRED ELECTRICAL LAYOUT WITH NEW LOCATIONS OF RECEPTACLES, HARD WIRED JUNCTION BOX, CONDUIT AND CIRCUITING REQUIREMENTS. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF DEVICES TO AVOID CONFLICT ACCESS TO THE DEVICES.
- ALL J-BOXES SHALL BE SIZED PER C.E.C.
- ALL PENETRATIONS INTO FIRE RATED WALL AND ALL FLOOR CORING SHALL BE FIRE SEALED.
- FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT, REFER TO M-SERIES AND P-SERIES LAYOUTS.
- FOR EQUIPMENT REQUIRING SPECIAL RECEPTACLE, PROVIDE RECEPTACLE WITH NEMA CONFIGURATION TO MATCH EQUIPMENT PLUG.
- MAINTAIN SEPARATION BETWEEN ELECTRICAL AND TELECOM CONDUITS.
- SELECTION OF RECEPTACLES WITH ADEQUATELY SIZED CABLE TERMINATION TERMINALS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES, SWITCHES, WALL OUTLETS, ETC., SHALL BE IN ACCORDANCE WITH ARCHITECT/OWNER.
- VERIFY ELECTRICAL REQUIREMENTS OF ALL NEW EQUIPMENT TO BE USED. ALL SPECIAL PURPOSE OUTLETS INDICATED ON PLAN SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION, TO ENSURE PROPER WIRING AND COMPATIBILITY WITH ATTACHMENT PLUGS OR JUNCTION BOXES THAT MAY BE FURNISHED AS AN INTEGRAL PART OF THE EQUIPMENT.
- ALL RECEPTACLES INSTALLED ON THE ROOF OR EXTERNALLY SHALL BE GFCI-PROTECTED AND LISTED AS WEATHER RESISTANT. PROVIDE WP, EXTRA DUTY, IN-USE COVER.
- ALL ELECTRICAL OUTLET BOXES INSTALLED IN REINFORCED WALLS OR ASSEMBLIES, SHALL BE HORIZONTALLY SEPARATED BY NOT LESS THAN 24" FROM OUTLETS IN THE OPPOSITE WALL SURFACE AND BACK SIDE OF BOXES SHALL BE SEALED WITH 1/8" RESILIENT SEALANT AND BACKED BY A MINIMUM OF 2" THICK MINERAL FIBER INSULATION.
- VERIFY EXACT LOCATIONS OF ALL APPLIANCES RECEPTACLES PRIOR TO INSTALLATION OF OUTLETS.
- PROVIDE SWITCH AND RECEPTACLE HEIGHTS PER STATE OF CALIFORNIA ACCESSIBLE REQUIREMENTS. VERIFY WITH ARCHITECT FOR EXACT REQUIREMENTS AND LOCATION. ALL RECEPTACLES HEIGHTS SHALL BE ACCESS COMPLIANCE PER SECTION 1136A AND SECTION 11B-308 OF THE BUILDING CODE.
 - ALL ABOVE COUNTER RECEPTACLES TO BE 42" A.F.F.
 - ALL TV RECEPTACLES TO BE 46" A.F.F.
 - ALL OTHER RECEPTACLES TO BE 18" A.F.F.
 - 125V, 15 AND 20 AMP RECEPTACLES REQUIRED AS PER C.E.C. 210.52 ARE TO BE LISTED AS TAMPER RESISTANT.
- ALL TV OUTLETS SHALL BE DUAL CONNECTION FOR ANTENNA & CABLE TV.
- ALL KITCHEN RECEPTACLES SHALL HAVE 'GFCI' PROTECTION. ALL GENERAL RECEPTACLES SHALL BE OF TAMPER RESISTANT TYPE.
- ALL GFCI DEVICES (CIRCUIT BREAKER OR RECEPTACLE) SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED LOW VOLTAGE CONDUIT AND WIRING FOR TELEPHONE/DATA, CCTV, INTERCOM SYSTEM ETC. CONTRACTOR TO INCLUDE IN THEIR BIDS ALL COSTS FOR PREPARATION AND INSTALLATION OF LOW VOLTAGE SYSTEMS. PROVIDE POWER AS REQUIRED. MAINTAIN SEPARATION BETWEEN ELECTRICAL AND LOW VOLTAGE CONDUITS. PLEASE REFER TO LOW VOLTAGE DRAWINGS FOR EXACT PLACEMENT OF ALL LOW VOLTAGE EQUIPMENT.
- REFER TO CIVIL DRAWINGS FOR GENERAL SITE LIGHTING AND ADDITIONAL INFORMATION.
- VERIFY ALL CONDUIT PATHWAYS REQUIRED FOR SITE WORK WITH CIVIL.
- VERIFY AND COORDINATE ALL BUILDING SHELL, SITE WORK AND SIGNAGE REQUIREMENTS PRIOR TO START OF WORK.

KEYNOTES

NOTE: SOME KEYNOTES LISTED BELOW MAY NOT PERTAIN TO THIS DRAWING.

- PROVIDE 2 SETS OF (4) 600 kcmil, 4" CONDUIT FROM UTILITY COMPANY TRANSFORMER. VERIFY AND COORDINATE ROUTING OF CONDUITS WITH UTILITY CO., CIVIL, AND TENANT REPRESENTATIVE.
- SERVICE ENTRANCE LOCATION. COORDINATE INSTALLATION WITH SERVING UTILITY.
- ELECTRICAL CONTRACTOR TO PROVIDE 1" PVC CONDUITS AS SHOWN STUBBED TO CPI PANEL LOCATION. FINAL CONNECTION TO EQUIPMENT TO BE COMPLETED BY TI CONTRACTOR.
- PROVIDE 1" CONDUIT W/PULL WIRE STUBBED TO MENU BOARD FOR POWER. VERIFY STUB-UP LOCATION AT MENU BOARD WITH TENANT AND PANERA PRIOR TO START OF WORK. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
- PROVIDE 4X4 JUNCTION BOX FOR DATA CONNECTION. VERIFY ROUGH-IN REQUIREMENTS AND EXACT LOCATION WITH TENANT REPRESENTATIVE IN THE FIELD.
- PROVIDE 1" CONDUIT W/PULL WIRE STUBBED TO PREVIEW BOARD FOR POWER. VERIFY STUB-UP LOCATION AT PREVIEW BOARD WITH TENANT AND PANERA PRIOR TO START OF WORK. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
- PROVIDE 1" CONDUIT W/PULL WIRE STUBBED TO DIRECTIONAL SIGNAGE. VERIFY STUB-UP LOCATION AT DIRECTIONAL SIGNAGE WITH TENANT AND PANERA PRIOR TO START OF WORK. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
- PROVIDE 1" CONDUIT W/PULL WIRE STUBBED TO MENU BOARD FOR DATA. VERIFY STUB-UP LOCATION AT MENU BOARD WITH TENANT AND PANERA PRIOR TO START OF WORK. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
- LANDLORD SHALL FURNISH AND INSTALL DRIVE THRU DETECTOR LOOP IN CONCRETE PAD. CONTRACTOR TO PROVIDE CONCRETE PAD WITH ALL ASSOCIATED CONC. SLAB AND CURBING. (NO METAL LOCATED WITHIN 36" OF LOOP DETECTOR), WIRE MESH, REBAR REINFORCING, AND WITH POWER CONDUIT STUBBED BACK TO THE BUILDING AND CAPPED. VERIFY WITH LANDLORD AND TENANT.
- EXTEND LOOP DETECTOR CONDUIT TO JBOX IN WALL AT 24" A.F.F. VERIFY AND COORDINATE CONDUIT ENTERING BUILDING AND CONNECTION TO JBOX IN WALL FOR LOOP DETECTOR SYSTEM WITH LANDLORD AND TENANT REPRESENTATIVE.
- LANDLORD SHALL FURNISH AND INSTALL MENU BOARD DETECTOR LOOP IN CONCRETE PAD. CONTRACTOR TO PROVIDE CONCRETE PAD WITH ALL ASSOCIATED CONC. SLAB AND CURBING, FIBERMESH (NO METAL LOCATED WITHIN 36" OF LOOP DETECTOR), AND WITH POWER CONDUIT STUBBED BACK TO THE BUILDING AND CAPPED. VERIFY WITH LANDLORD AND TENANT.
- EXTEND LOOP DETECTOR TO 4X4 JUNCTION BOX AT SPEAKER POST. VERIFY ROUGH-IN REQUIREMENTS AND EXACT LOCATION WITH TENANT REPRESENTATIVE IN THE FIELD.
- PROVIDE 1" CONDUIT W/PULL WIRE FOR DATA TO SPEAKER POST. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
- PROVIDE 1" CONDUIT W/PULL WIRE STUBBED TO PREVIEW BOARD FOR DATA. VERIFY STUB-UP LOCATION AT PREVIEW BOARD WITH TENANT AND PANERA PRIOR TO START OF WORK. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
- PROVIDE 1" CONDUIT W/PULL WIRE FOR DATA TO MENU BOARD, SPEAKER POST, AND PREVIEW BOARD. COORDINATE ROUTING OF CONDUIT AS REQUIRED.
- PROVIDE JUNCTION BOX FOR MENU BOARD DETECTOR LOOP. CONNECTION OF DETECTOR LOOP TO JUNCTION BOX BY TENANT. VERIFY ROUGH-IN REQUIREMENTS AND EXACT LOCATION WITH TENANT REPRESENTATIVE IN THE FIELD.
- PROVIDE ROUGH-IN FOR FINAL CONNECTION TO CAMERA SHOWN. VERIFY ROUGH-IN REQUIREMENTS AND EXACT LOCATION WITH TENANT REPRESENTATIVE / CAMERA PROVIDER IN THE FIELD.
- EV CHARGING STATION. PROVIDE 3/4" CONDUIT FROM THE EQUIPMENT LOCATION TO PANEL "M" CIRCUIT AS SHOWN. COORDINATE LOCATION OF CONNECTION AND EQUIPMENT SPECIFICATIONS WITH GENERAL CONTRACTOR AND EV CHARGING STATION VENDOR PRIOR TO ROUGH IN.
- PROVISIONS FOR FUTURE EV CHARGING STATION. PROVIDE 1" CONDUIT FROM THE EQUIPMENT LOCATION TO PANEL "M". PROVIDE PULL STRING AND CAP CONDUIT AT EACH END. ELECTRICAL CONTRACTOR TO MARK PRECISE LOCATION OF STUB OUT FOR CHARGER ON AS BUILT CONSTRUCTION DOCUMENTS AND RETURN TO OWNER. COORDINATE LOCATION WITH GENERAL CONTRACTOR PRIOR TO ROUGH IN.

Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508



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 Mechanical | Electrical | Plumbing

No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

SITE POWER PLAN

Project Number:	Sheet Number:
6360	
Drawn By:	
EU	
Issue Date:	
02/12/2024	
DPM:	
DM:	
CPM:	

E0.05

Bakery-Cafe #:

6360

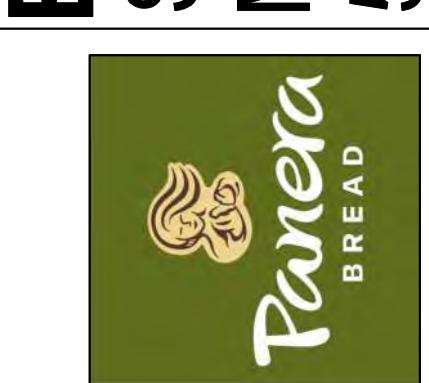
SYSTEM: NEXT-GEN

Project Team:

AO
 Architecture.
 Design.
 Relationships.

Professional Seal:

Project Title:



No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

**SITE PHOTOMETRIC
PLAN**

Project Number: Sheet Number:

6360

Drawn By:

EU

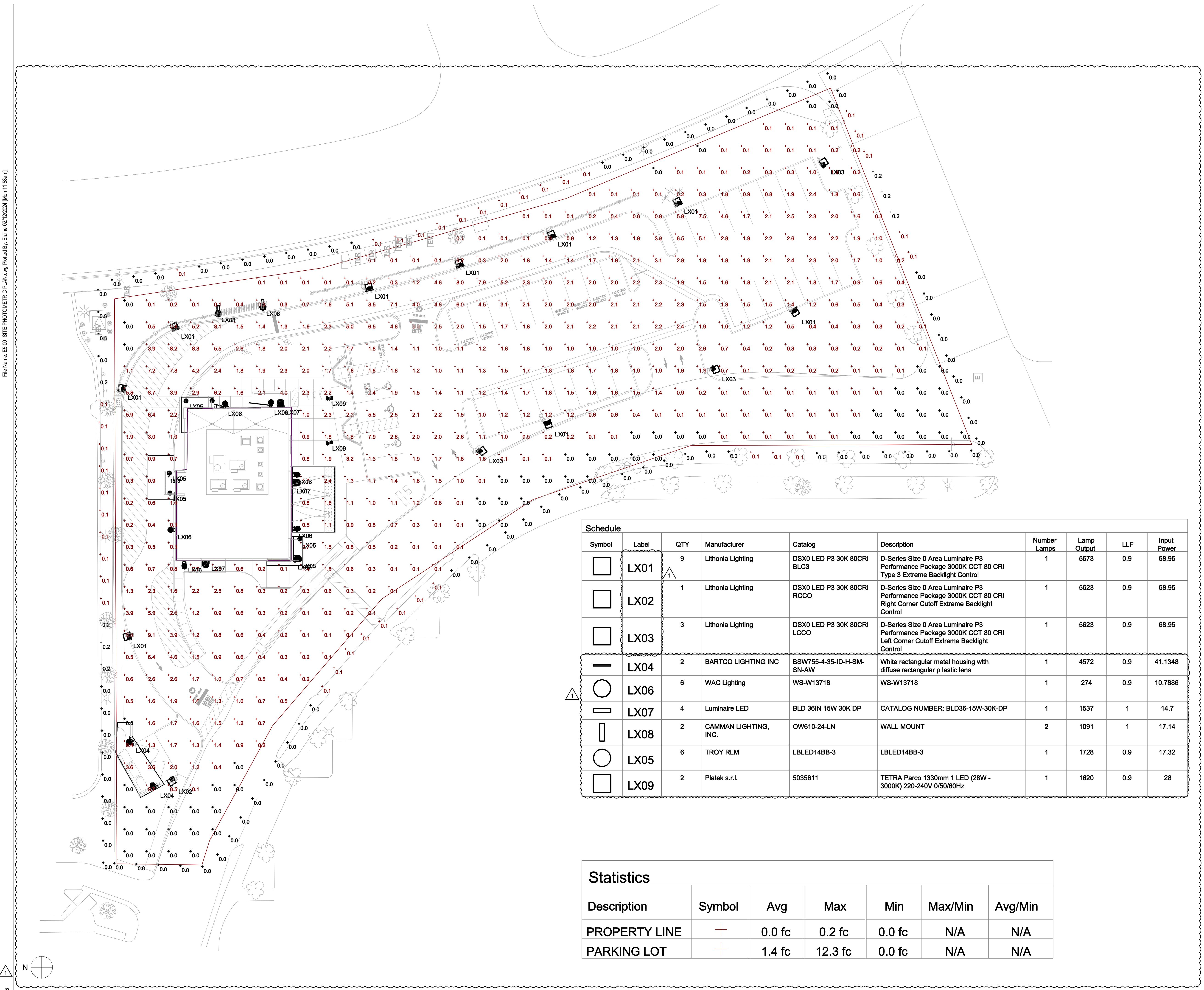
Issue Date:

02/12/2024

DPM:

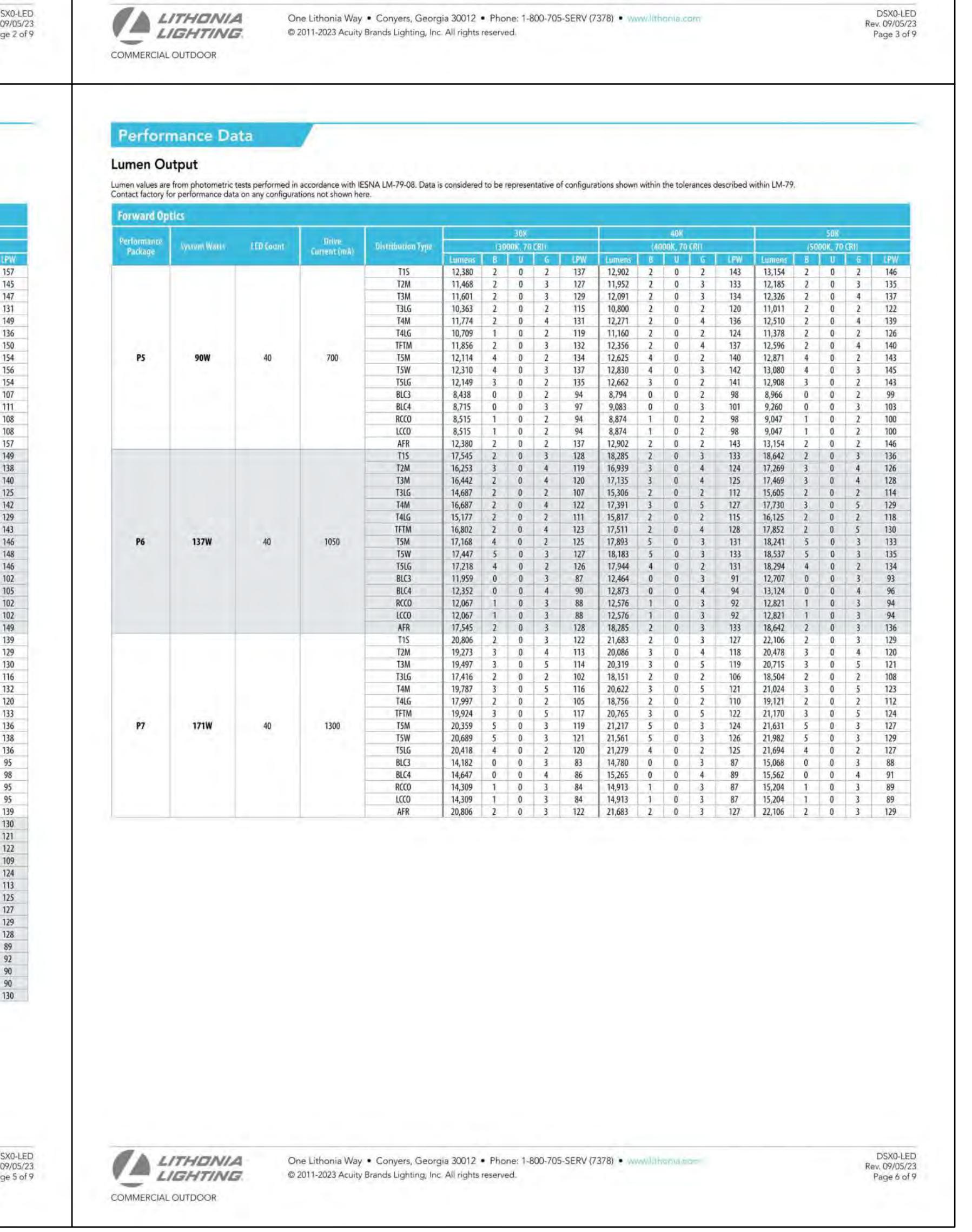
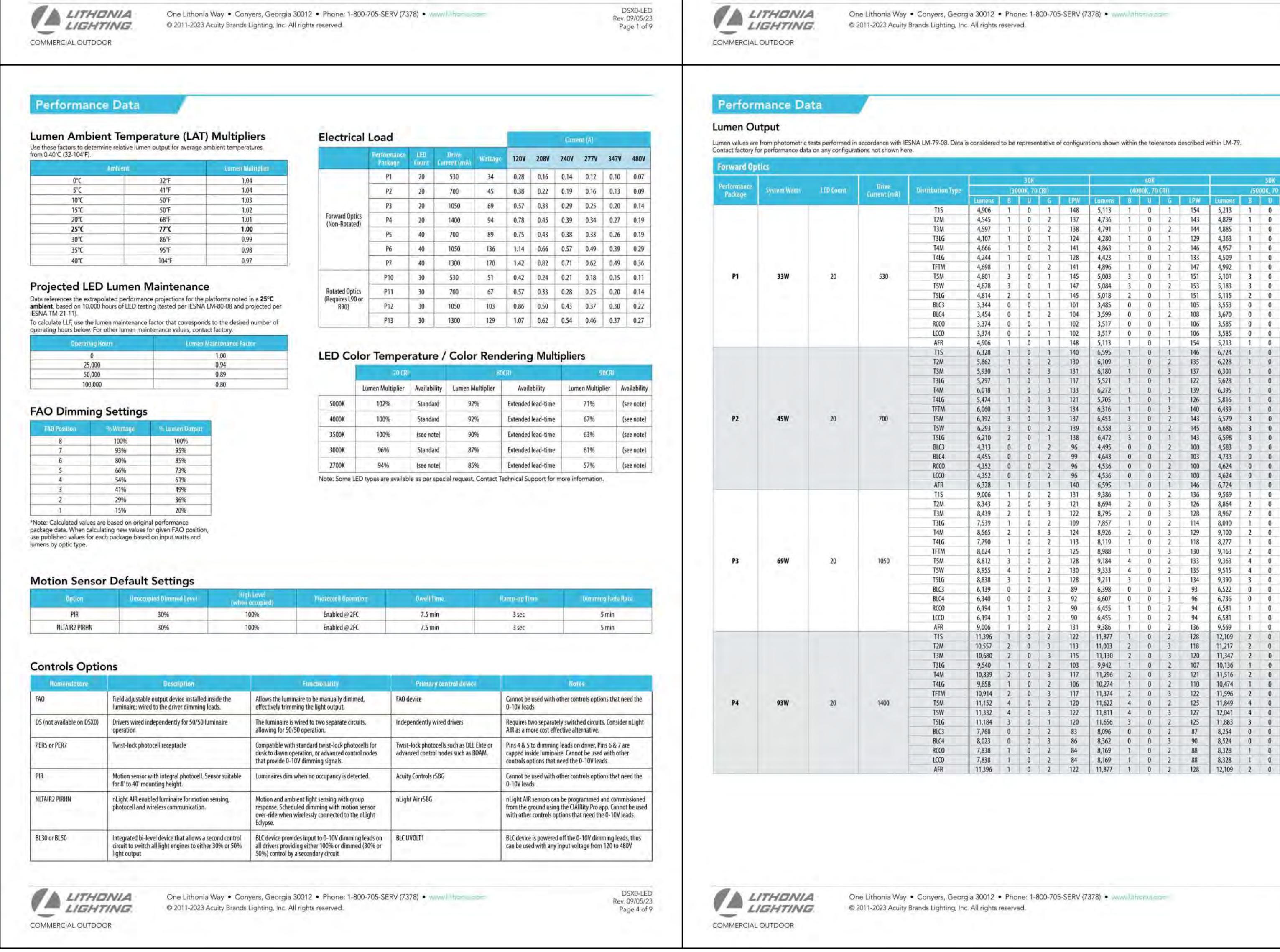
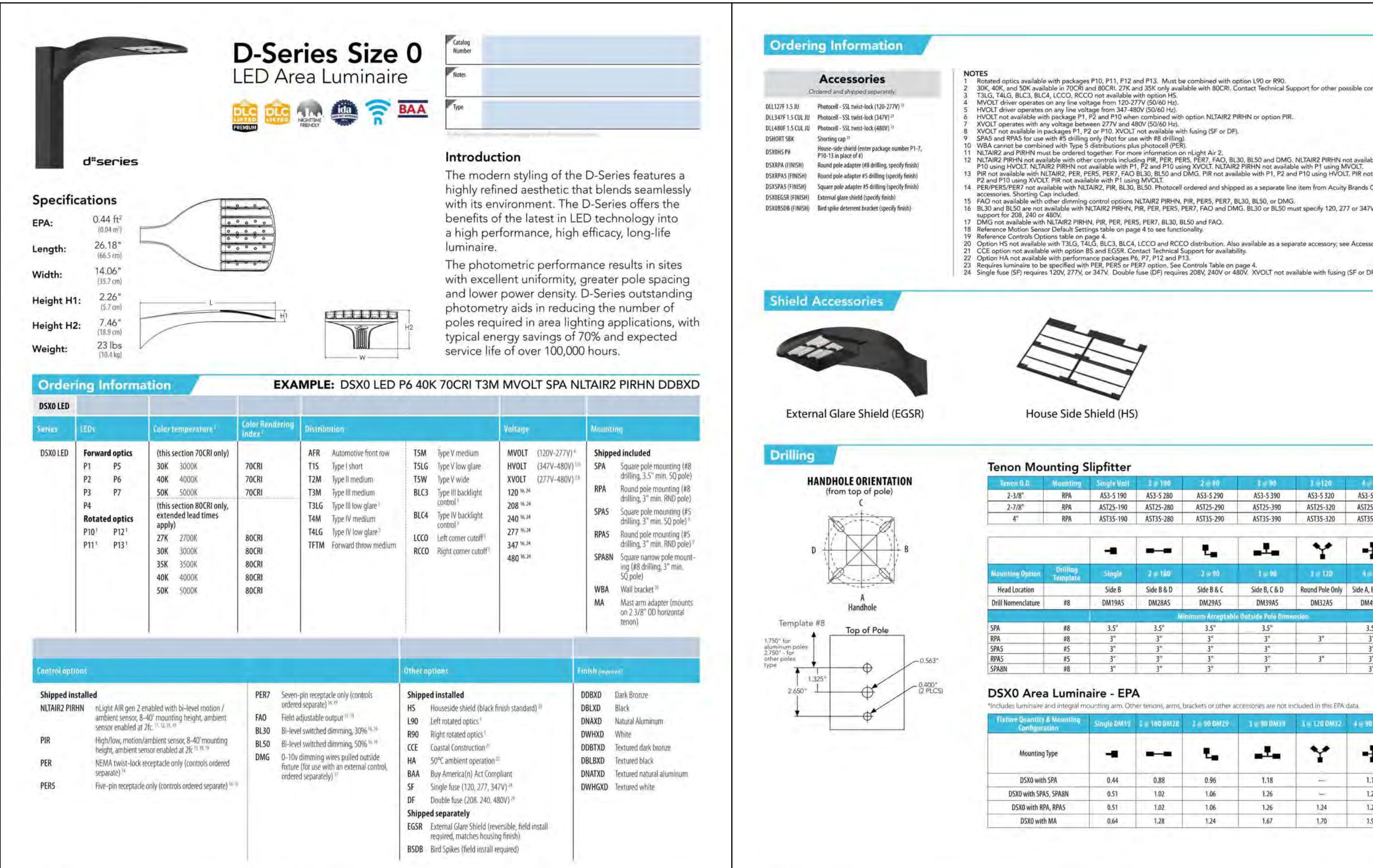
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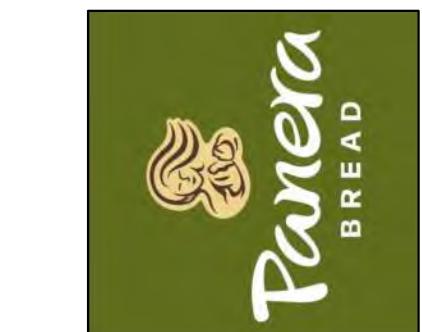
CPM:

E5.00



No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024





No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

Project Number:	Sheet Number:
6360	
Drawn By:	
EU	
Issue Date:	
02/12/2024	
DPM:	
DM:	
CPM:	

LS SERIES LB PROJECT: _____
Aluminum Fixture Head
with 360° Horizontal & 180° Vertical Rotation

SPEC-00031 UPDATED 07/14/2022 NOTE: _____

STEM



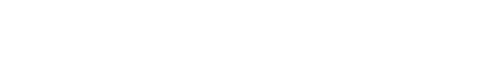
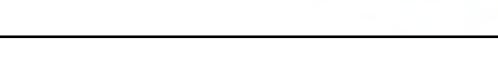
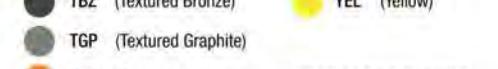
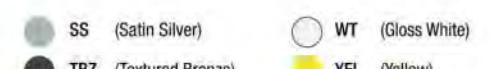
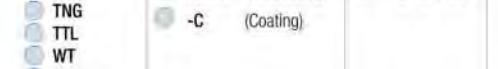
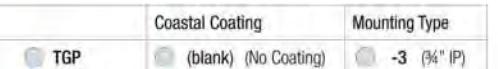
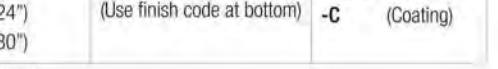
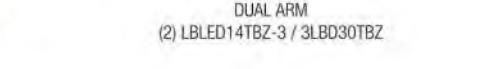
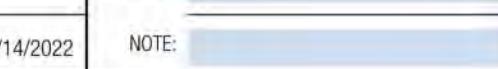
STEM MOUNT ORDER MATRIX (EXAMPLE: LBS24TBZ)			
Pipe Size	Stem Length	Finish	Coat Coating
3 (1/4" IP)	LBS6 (6")	Available Finish (Use finish code at bottom)	(blank) (No Coating)
	LBS12 (12")		-C (Coating)
	LBS24 (24")		
	LBS36 (36")		

LS SERIES - BULLET HEAD ORDER MATRIX (EXAMPLE: LBLED14TBZ-3)

Diameter	LED	Finish	Coat Coating	Mounting Type
LB BULLET HEAD	LED14 ^{1/2} (14W LED, 2700K, 90 CRI, 980lm)	(blank) (No Coating)	-C (Coating)	3 (1/4" IP)

1. Lamp/LED included
2. Lumen are raw LED value

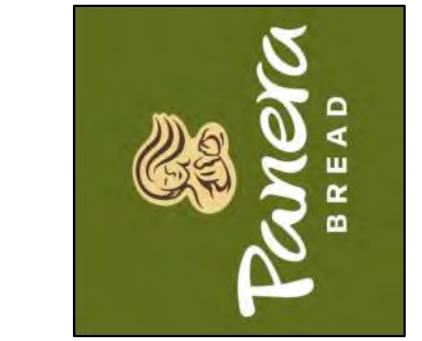
STANDARD FINISHES											
ABL (Aegean Blue)	FLG (Flannel Gray)	PNC (Painted Natural Copper)	SS (Satin Silver)	WT (Gloss White)							
BB (Burnished Bronze)	LG (Lime Green)	RD (Red)	TBZ (Textured Bronze)	YEL (Yellow)							
BK (Gloss Black)	MB (Matte Black)	SGR (Sage Green)	TGP (Textured Graphite)								
BLU (Blue)	MBL (Midnight Blue)	SGW (Semi Gloss White)	TNG (Tangerine)								
DVG (Dove Gray)	PNA (Painted Natural Aluminum)	SND (Sand)	TTL (Tahitian Teal)								

14508 Nelson Ave, City of Industry, CA 91744 • tel: 626-336-4511 • fax: 626-330-4266 • www.TroyRLM.com
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Bakery Cafe #: 6360
SHELL BUILDING
Mission Village Center
505 E. Alessandro Blvd
Riverside, CA 92508

PROTOTYPE - NEW/CONSTRUCTION



Consultant

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No.	Description	Date
1	SITE PLAN REVISIONS	02/12/2024

LIGHTING CUT SHEETS

Project Number: 6360
 Sheet Number: E6.03
 Drawn By: EU
 Issue Date: 02/12/2024
 DPM: DM: CPM:

BLADE BLD

vandal Resistant

BLD LED

SPECIFICATIONS

Description	The Blade BLD combines a sleek, patent pending design shaped with high performance, full cut off optics to achieve unobtrusive illumination of a space or path of egress. When mounted over a doorway or mullion, the fixture is perceived as an element of the building structure, and, additionally, provides water protection in the form of a drip cap over the entranceway. Multiple lengths are available to match a given door opening and our quick-mount system facilitates installation and maintenance.
Housing	Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat.
Wall Mount	Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat. Designed to provide quick mounting to housing and secured with (2) captive stainless steel TORX® head screws.
Lens Frame	Marine grade heat treated extruded aluminum. Secured to fixture (4) captive stainless steel TORX® head screws.
Lens	Extruded UV stabilized opal polycarbonate with integral prisms. Maximum wall thickness 0.160". Secured to housing with die cast aluminum clamps and stainless steel TORX® head screws.
End Plate	Die-cast marine grade aluminum. Chemically primed and finished with robotically applied polyester powder coat.
Drivers	Dimming to 1%, 10% or Programmable Lumen Output driver options. Non-Dimming Driver is also available.
LED	Samsung LM561B+ series @ 2700K, 3000K, 3500K, 4000K, or 5000K and 82 CRI wired in parallel-series. L70 projected life of over 130,000 hours at 50°C.
Gaskets	Closed cell self-adhesive neoprene to provide watertight seal between fixture and mounting surface.
UL Listing	U.L., C.U.L. Wet Location Listing standard.
Buy American Act	Luminaire LED products are assembled in the USA. Our products meet the Buy America(n) government procurement requirements under FAR, DFARS, and DOT regulations. Please see www.acuitybrands.com/buy-american for additional information.
Warranty	Lifetime warranty. Luminaire LED incorporated will repair or replace any fixture damaged due to vandalism for the lifetime of the installation. 10-year warranty on LED boards against operational defects. Tested in accordance with LM-80. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed.
Note	Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. The product images shown are for illustration purposes only and may not be an exact representation of the product. Specifications subject to change without notice.

DIMENSIONAL DATA

	A	B	C
BLD12	20.0"	5.6"	2.4"
BLD24	30.8"	5.6"	2.4"
BLD36	41.6"	5.6"	2.4"
BLD48	52.4"	5.6"	2.4"
BLD72	74.0"	5.6"	2.4"

Luminaire LED One Lithonia Way, Conyers GA 30012 | 1.800.705.SERV (7378) | www.luminareled.net
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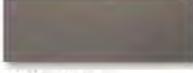
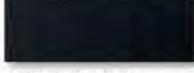
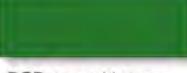
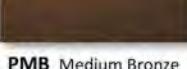
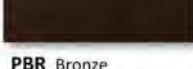
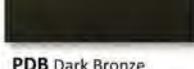
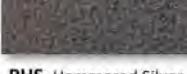
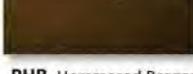
LUMINARE-LED-BLADE-BLD-LED
 Rev. 1114/22
 Page 1 of 5

BLADE BLD

vandal Resistant

BLD LED

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Additional Information							
Color Temperature Adjustment		LED Performance		Warranty			
Color Temperature		Color Rendering Index		80CRI Standard (90CRI Available)			
2700K		L70 (Projected):		>72,000 hours			
3000K							
3500K							
4000K							
1.000							
1.032							
Camman Plus Customizations							
		Camman Standard Plus products provide an extra degree of freedom to customize most standard products, including dimensions, finish, performance and adding or removing details. Visit www.cammanlighting.com/plus to learn more about the Plus program, and visit this fixture to see what specific options might be available.					
Standard Finishes							
MODERN			COLORS				
							
PAL Aluminum			PRD Traffic Red (RAL 3020)				
							
PNL Nickel			POR Pure Orange (RAL 2004)				
NEUTRAL							
							
PAB Antique Brass			PYL Traffic Yellow (RAL 1023)				
							
PBB Brushed Brass			PGR Emerald Green (RAL 6001)				
							
PSG Satin Gold			PBL Signal Blue (RAL 5005)				
							
PLB Light Bronze			PMB Medium Bronze				
							
PBR Bronze			PDB Dark Bronze				
TEXTURES							
							
PHS Hammered Silver		PHB Hammered Bronze		PHC Hammered Copper			
		PPA Patina					
<ul style="list-style-type: none"> Colors are for reference only and may vary per monitor. See cammanlighting.com/resources for more information, or contact your local rep for finish samples. 							

PROJECT
SPECIFICATIONS
QUANTITY
TYPE
DATE

ZANEEN®

TETRA PARCO POST

L9B134- -

base number Color Finish
Temperature Options

1. To build a product code in our configurator select the specify button on the base model product page.
2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Tetra
Subseries: Tetra Parco
Brand: Platek
Division: Exterior
Mounting Type: Post
Mounting Location: Above Ground
Subcategory: Bollard

PHYSICAL

Shape: Rectangle
Length (mm): 140
Length (in): 5 1/2
Width (mm): 140
Width (in): 5 1/2
Height (mm): 1330
Height (in): 52 7/8
Light Distribution: Direct
Weight (kg): 12
Weight (lbs): 26.46
Screws: A4 stainless steel
Diffuser: Clear tempered glass
Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ
Fixture Material: Extruded Aluminum

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 28
Total Output Wattage (W): 24
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - 120 / 277vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (mA): 700
Upon Request: Remote: 0-10Vdc dimming

LED

Color Temperature (°K): 3000 / 4000
Max. Delivered Lumen (lm): 1620 / 1685
Nominal Lumen (lm): 3685 / 3830
CRI: >80 CRI
Lamp Life (hrs): 60000

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
IP rating: IP65
IK Rating: IK10

200mm

E

70

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Available for International specifications by adding 'INT' at the end of the existing Model #. For assistance on 'custom' specifications, contact zteam@zaneen.com

ZANEEN®

TETRA PARCO POST

PROJECT

TYPE

SPECIFIER

QUANTITY

DATE

Fixture Finish

Black - BLK

White - WHI

Gray - GRY

Corten - COR

Anthracite - ANT

Bronze - BRZ

Digital: Not all screens are calibrated the same, and therefore, colors will appear differently between screens.

Physical: When texture is involved, there will be variations in color, character and tone within a product series and between product families.

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Available for International specifications by adding 'INT' at the end of the existing Model #. For assistance on 'custom' specifications, contact zteam@zaneen.com.

In a constant effort to supply the best product, we reserve the right to change specifications or materials without notice. The most recent specification sheets are found at zaneen.com

December 8

	ZANEEN®	<small>PROJECT</small> <small>TYPE</small> <small>SPECIF</small> <small>QUANT</small> <small>DATE</small>																																																																																																														
TETRA PARCO POST																																																																																																																
LEGEND																																																																																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center; padding: 2px;"></td> <td style="width: 40%; text-align: left; padding: 2px;">floor-mounted</td> <td style="width: 10%; text-align: center; padding: 2px;"></td> <td style="width: 40%; text-align: left; padding: 2px;">pivotable</td> <td style="width: 10%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">wall and ceiling: recessed and surface mounted</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">rotating</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">ceiling-mounted and wall-mounted</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">illuminate tilted</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">wall-mounted</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">length of suspension cable</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">omni-directional light distribution</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">reflector degree selection</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">direct light distribution</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">super spot</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">indirect light distribution</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">lens</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">asymmetric light distribution</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">lens pack</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">aura light distribution</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">shine ring</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">round wall or ceiling cut-out</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">integrated shine ring with diffuser</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">square wall or ceiling cut-out</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">free individual colors 01-29</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">the supplied jig specifies the cutout dimensions</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">individual colors: 00 (free of charge), 01-25 (extra charge)</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; padding: 2px;">minimum distance (meters) lamp - object</td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: left; 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PLANT PALETTE

Symbol	Botanical Name	Common Name	WUCOLS
TREES			
	Koelreuteria bipinnata - street tree per city guidelines	Chinese Lantern Tree	Mod
	Magnolia g. 'Kay Parris'	Kay Parris Magnolia	Mod
	Olea europaea 'Swan Hill'	Fruitless Olive	Low
	Parkinsonia florida	Blue Palo Verde	Low
SHRUBS/ GROUNDCOVERS			
	Bouteloua g. 'Blonde Ambition'	Blue Grama	Low
	Lavandula spp.	Lavender	Low
	Westringia fruticos	Coast Rosemary	Low
ACCENT PLANTINGS			
	Agave spp.	Agave	Low
	Bulbine frutescens 'Hallmark'	Stalked Bulbine	Low
	Desylyon wheeleri	Desert Spoon	Low
	Salvia spp.	Silver sage, Autumn sage	Low
BIO-BASIN PLANTINGS			
	Carex spp.	Carex	Low
	Helictotrichon sempervirens	Blue Oat Grass	Low
	Mulhenbergia spp.	Deer Grass	Low
	Juncus patens	California Grey Rush	Low
SCREEN SHRUBS- MIN. 3FT HIGH			
	Callistemon viminalis 'Little John'	Little John Callistemon	Mod
	Ligustrum japonicum	Texas Privet	Low
	Myrtus communis	Common Myrtle	Mod

NOTES:

PLANT MATERIAL NOT LISTED MAY BE USED, SUBJECT TO APPROVAL BY THE CITY.
ALL LANDSCAPE PLANS AND INSTALLATIONS SHALL ADHERE TO CITY DESIGN GUIDELINES, CODES AND REGULATIONS.

ALL LANDSCAPE AREAS SHALL RECEIVE AUTOMATIC IRRIGATION SYSTEM.

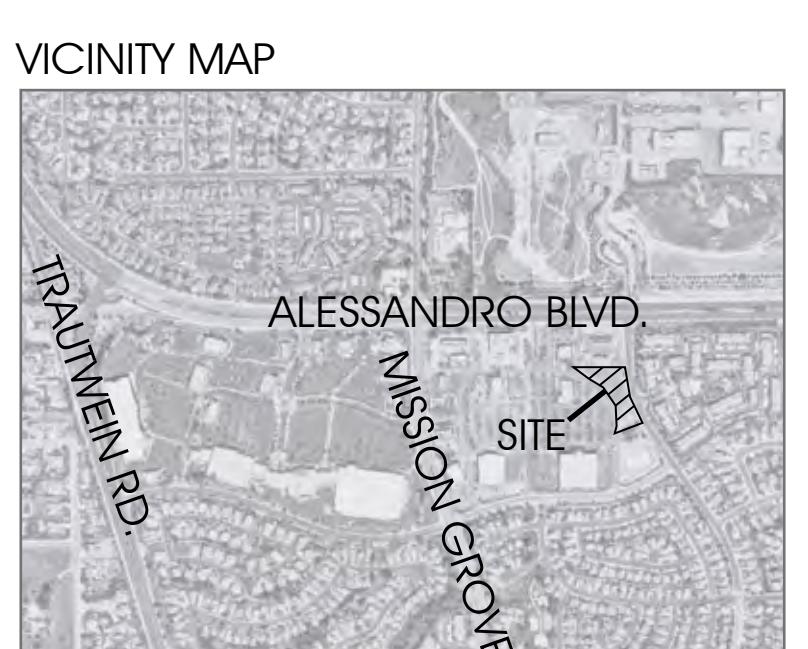
ALL LANDSCAPE INSTALLATION SHALL BE PERMANENTLY MAINTAINED.

PARKING STALL TO TREE RATIO 1 TREE TO 4 STALLS

PARKING STALLS = 37
TOTAL TREES NEEDED = 9
TOTAL TREES PROVIDED = 14

PROPOSED LANDSCAPE PERCENTAGE

LANDSCAPE MINIMUM 5% AT PARKING STALLS
PROPOSED LANDSCAPE PROVIDED = 17,033sf
PROPOSED LANDSCAPE PROVIDED AT PARKING LOT = 10,530sf



CONCEPTUAL LANDSCAPE PLAN

PANERA BREAD AT MISSION GROVE PLAZA
RIVERSIDE, CA



SCALE 1" = 20'
0 5 10 20 40
CDPC PROJECT #: 23061
FEBRUARY 12, 2024

conceptual design & planning company
Corporate Office:
3195-C Airport Loop Drive
Studio One
Corona, CA 92826
T: 949.399.0870
www.cdpinc.com
COSTA MESA / ATASCADERO / LAS VEGAS



L-1

1 OF 2

TREE(S)



Koelreuteria bipinnata
Chinese Lantern Tree



Magnolia g. 'Kay Parris'
Kay Parris Magnolia



Olea europaea 'Swan Hill'
Fruitless Olive



Parkinsonia florida
Blue Palo Verde

SHRUBS AND GROUNDCOVERS



Bouteloua g.
'Blonde Ambition'
Blue Grama



Lavendula spp.
Lavender



Westringia fruticosa
Coast Rosemary



Carex spp.
Carex



Helictotrichon sempervirens
Blue Oat Grass

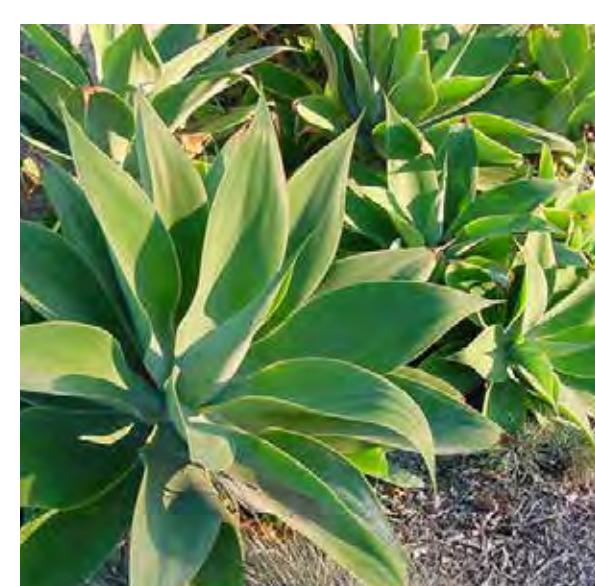


Juncus patens
California Grey Rush



Mulhenbergia spp.
Deer grass

ACCENT PLANTING



Agave spp.
Agave



Bulbine frutescens 'Hallmark'
Stalked Bulbine



Dasylirion wheeleri
Desert Spoon



Salvia spp.
Silver Sage, Autumn Sage

SCREENING SHRUBS



Callistemon viminalis 'Little John'
Little John Callistemon



Ligustrum japonicum
Texas Privet



Myrtus communis
Common Myrtle



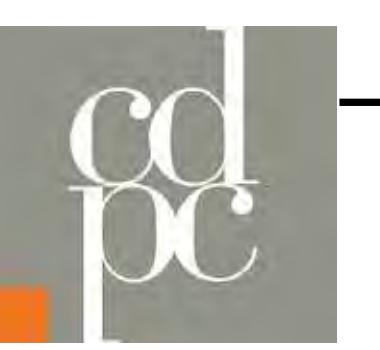
CONCEPTUAL LANDSCAPE PLAN - PLANT IMAGE BOARD

PANERA BREAD AT MISSION GROVE PLAZA
RIVERSIDE, CA



SCALE 1" = 20'
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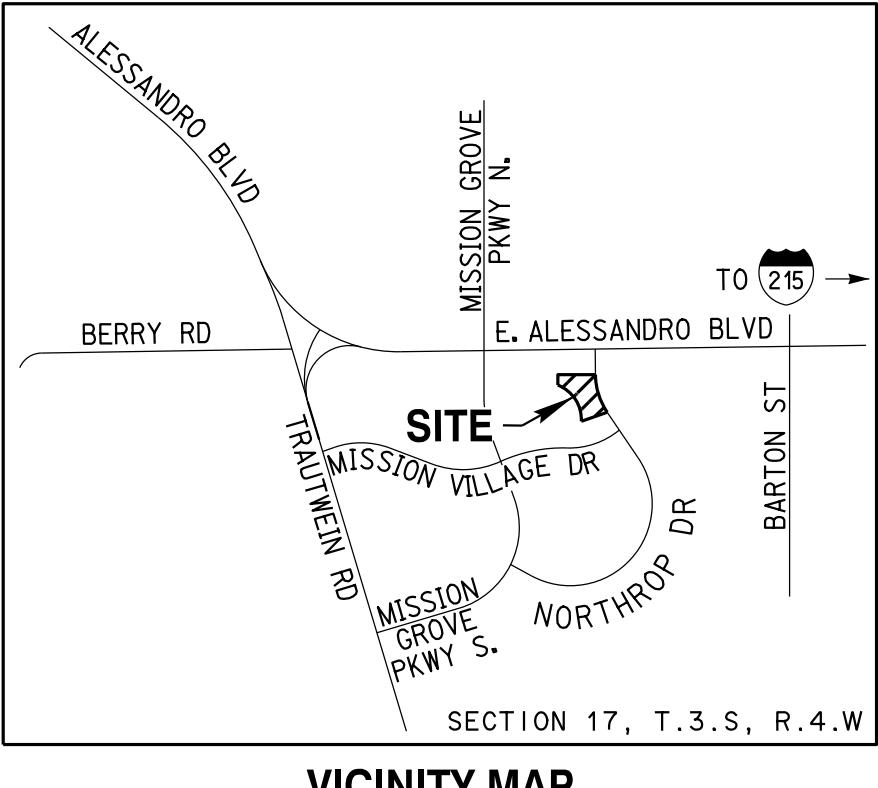
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2 OF 2

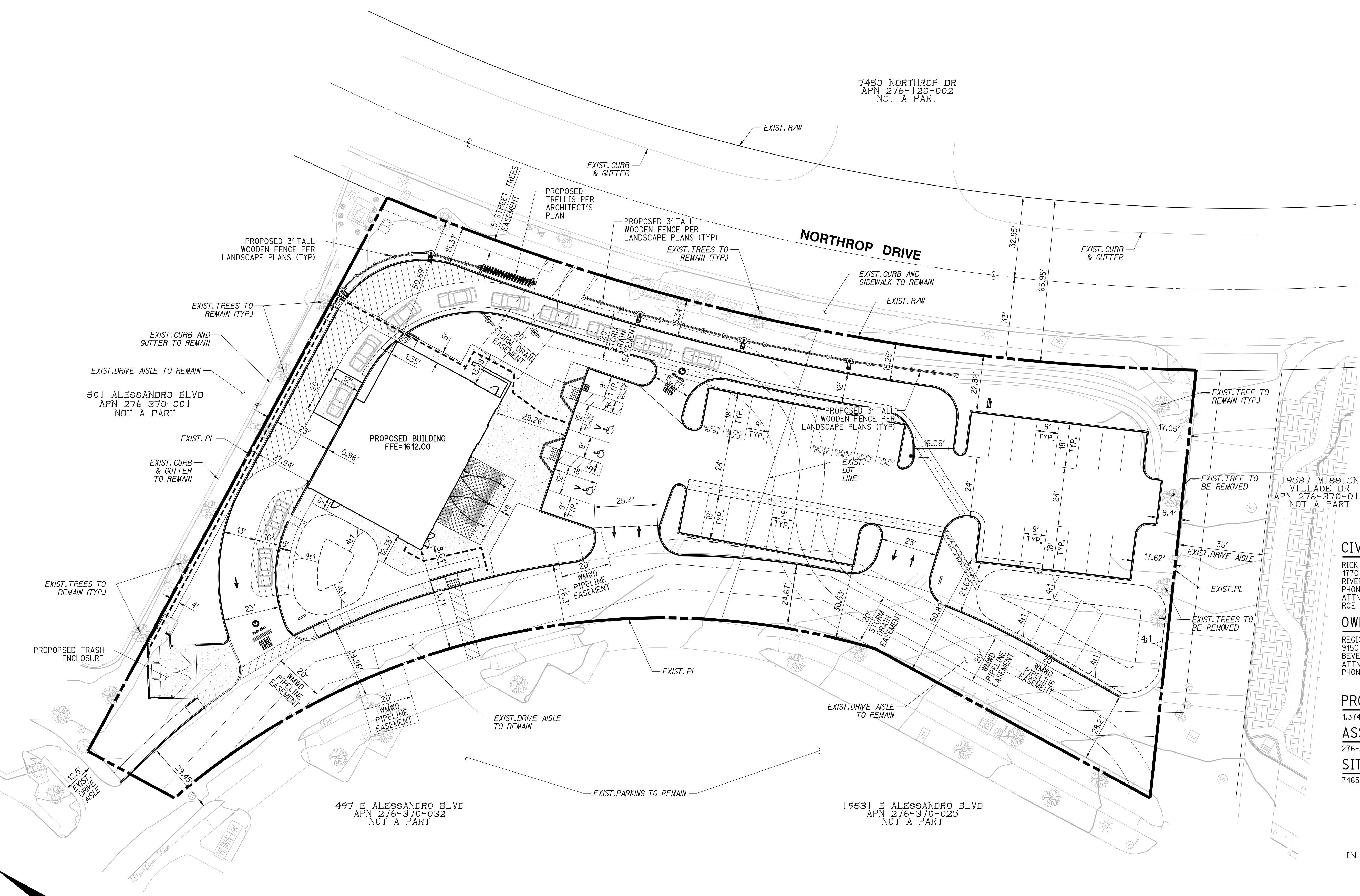
IN THE CITY OF RIVERSIDE, CA
PLOT PLAN
 PANERA BREAD - MISSION VILLAGE PLAZA

7450 NORTHROP DR
 APN 276-120-002
 NOT A PART



VICINITY MAP

N.T.S.



LEGEND

- EXISTING FIRE HYDRANT
- EXISTING LIGHT
- EXISTING SEWER MANHOLE
- EXISTING SIGN
- EXISTING WATER METER
- EXISTING WALL
- EXISTING SHRUBS
- EXISTING TREE
- PROPOSED CONCRETE
- PROPOSED AC PAVEMENT
- PROPOSED DECORATIVE PAVERS
- PROPOSED STRIPING
- PROPOSED RIBBON GUTTER
- PROPOSED CURB
- PROPOSED PATH OF TRAVEL
- PROJECT BOUNDARY

CIVIL ENGINEER

RICK ENGINEERING COMPANY
 1770 IOWA AVENUE, SUITE 100
 RIVERSIDE, CA 92507
 PHONE: (951) 782-0707
 ATTN: KRISTIN WEKSMAN,
 RCE 69317

OWNER/DEVELOPER
 REGIONAL PROPERTIES, INC.
 9150 WILSHIRE BLVD, SUITE 210
 BEVERLY HILLS, CA 90212
 ATTN: MICHELLE RUBIN
 PHONE: (310) 553-7846

PROJECT ACREAGE

1.374 AC - 59,851 SF

ASSESSOR'S PARCEL NUMBER

276-370-014 & 276-370-013

SITE ADDRESS

7465 & 7515 NORTHROP DRIVE, RIVERSIDE CA, 92506

ARCHITECT

CIVIL & ENVIRONMENTAL CONSULTANTS, INC
 3000 LITTLE HILLS EXPRESSWAY, SUITE 102
 ST. CHARLES, MO 63301
 PHONE: (314) 656-4566

**PLOT PLAN
 PANERA BREAD
 MISSION VILLAGE PLAZA**

CITY OF RIVERSIDE
 IN THE COUNTY OF RIVERSIDE, CALIFORNIA
 DATE PREPARED: JUNE 29, 2023

DATE REVISED: NOVEMBER 6, 2023
 JANUARY 25, 2024

SHEET 1 OF 4

RICK 1770 IOWA AVENUE - SUITE 100
 RIVERSIDE, CA 92507
 951.782.0707
 (FAX) 951.782.0723
 ENGINEERING COMPANY
 Riverside San Diego • Orange • San Luis Obispo • Bakersfield • Sacramento • Phoenix • Tucson
 rickengineering.com

PLOT DATE: 25-JAN-2024 JN 19550C

