

GENERAL NOTES

- JS & ASSOCIATES SHALL IN NO WAY ASSUME RESPONSIBILITY FOR THE ELECTRICAL DESIGN OF THIS PROJECT. JSA LIGHTING DESIGN SHALL BE INCORPORATED AND VERIFIED BY ELECTRICAL ENGINEER OF RECORD FOR CODE COMPLIANCE.
- ALL MEASUREMENTS, HEIGHTS, BACKGROUNDS, FINISHES SHALL BE VERIFIED BY INTERIOR DESIGNER AND ARCHITECT OF RECORD.
- LIGHTING FIXTURES:
 - LIGHTING FIXTURES SHALL NOT BE SUBSTITUTED WITHOUT PRIOR APPROVAL.
 - LIGHTING FIXTURES AND CONTROLS SHALL BE DELIVERED TO SITE IN NEW CONDITION ONLY.
 - ALL EXIT SIGNS AND EMERGENCY LIGHTING SHALL COMPLY WITH UL 924 AND OPERATE FOR A MINIMUM OF 90MIN IN EMERGENCY MODE.
 - ALL LIGHTING FIXTURES SHALL BE UL OR ETL LISTED AND HAVE APPROPRIATE LABORATORY TESTING.
- COMMERCIAL LIGHTING CONTROLS:
 - HOTEL CORRIDORS SHALL MAINTAIN LESS THAN 0.5 WATTS OF GENERAL LIGHTING PER SQUARE FOOT AND SHALL BE CONTROLLED BY OCCUPANT SENSING CONTROLS TO REDUCE THE LIGHTING POWER BY 50% WHEN UNOCCUPIED USING THE CHECKER BOARDING METHOD. SEE 2016 TITLE 24 §130.1(B) & 2016 TITLE 24 §130.1(C)(6)(C).
 - STAIRWELLS SHALL HAVE LIGHTING FIXTURES WITH INDEPENDENT, INTEGRATED ULTRASONIC MOTION SENSING AND BI-LEVEL DIMMING CONTROLS TO REDUCE THE LIGHTING POWER BY 50% WHEN THE SPACE BECOMES UNOCCUPIED. SEE 2016 TITLE 24 §130.1(C)(6)(C) & 2016 TITLE 24 §130.1(C)(6)(C).
 - ALL OTHER COMMON AREAS SHALL MAINTAIN TITLE 24 COMPLIANT LIGHTING AND RECEPTACLE CONTROL AS REQUIRED. SEE LIGHTING CONTROL DETAILS ON SHEET LTG-5.0.
 - AUTOMATIC DAYLIGHTING CONTROLS SHALL NOT BE REQUIRED IN AREAS WHERE THE PRIMARY DAYLIT ZONE CONTAINS LESS THAN 120W OF GENERAL LIGHTING OR ROOMS WITH A TOTAL GLAZING AREA OF LESS THAN 24 SQUARE FEET. SEE 2016 TITLE 24 §130.1(D)(2)(D) EXCEPTION 1 & 2.
- GUESTROOM LIGHTING CONTROLS:
 - HOTEL GUEST ROOM LIGHTING SHALL HAVE OCCUPANCY SENSING CONTROLS SUCH THAT NO LONGER THAN 30 MINUTES AFTER THE GUEST ROOM HAS BEEN VACATED, THE LIGHTING POWER IS SWITCHED TO OFF. IN ADDITION TO LIGHTING CONTROL, THE PTAC OR VTAC SHALL ALSO DRIFT A MINIMUM + OR - 5° DEGREES. TELKONET SYSTEM AS DESIGNED SHALL MEET BOTH CRITERIA AND THEREFORE TITLE 24 COMPLIANT. REFER TO WIRING DETAILS. ALSO SEE 2016 TITLE 24 §130.1(C)(8).
 - HOTEL GUEST ROOMS SHALL HAVE CONTROLLED RECEPTACLES FOR AT LEAST ONE-HALF OF THE 120-VOLT RECEPTACLES USING SPLIT-WIRED DEVICES. REFER TO WIRING DETAILS. ALSO SEE 2016 TITLE 24 §130.5(D)(4).

2016 TITLE 24 §130.1(B) The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall provide multi-level lighting control...

2016 TITLE 24 §130.1(C)(6)(C) Lighting installed in corridors and stairwells shall be controlled by occupant sensing controls that separately reduce the lighting power in each space by at least 50 percent when the space is unoccupied. The occupant sensing controls shall be capable of automatically turning the lighting to fully ON only in the separately controlled space, and shall be automatically activated from all designed paths of egress.

2016 TITLE 24 §130.1(C)(8) Hotel motel guest rooms shall have captive card key controls, occupancy sensing controls, or automatic controls such that, no longer than 30 minutes after the guest room has been vacated, lighting power is switched off.

2016 TITLE 24 §130.1(D) Automatic Daylighting Controls.

- Daylit Zones shall be designed as follows:
 - PRIMARY SIDELIT DAYLIT ZONE is the area in plan view and is directly adjacent to each vertical glazing, one window head height deep into the area, and window width plus 0.5 times window head height wide on each side of the rough opening of the window, minus any area on a plan beyond a permanent obstruction that is 6 feet or taller as measured from the floor.
 - Luminaires providing general lighting that are in or are partially in the Skylit Daylit Zones or the Primary Sidelit Daylit Zones shall be controlled independently by fully functional automatic daylighting controls that meet the applicable requirements of Section 110.9, and the applicable requirements below:
 - All Skylit Daylit Zones and Primary Sidelit Daylit Zones shall be shown on the plans.
 - Luminaires in the Skylit Daylit Zone shall be controlled separately from those in the Primary Sidelit Daylit Zones.
 - Luminaires that fall in both a Skylit and Primary Sidelit Daylit Zone shall be controlled as part of the Skylit Daylit Zone.
 - Automatic Daylighting Control Installation and Operation. For luminaires in daylight zones, automatic daylighting controls shall be installed and configured to operate according to all of following requirements:
 - Photosensors...
 - Automatic daylighting controls shall provide functional multilevel lighting...
- EXCEPTION 1 to Section 130.1(d)2: Rooms in which the combined total installed general lighting power in the Skylit Daylit Zone and Primary Sidelit Daylit Zone is less than 120 Watts.
EXCEPTION 2 to Section 130.1(d)2: Rooms that have a total glazing area of less than 24 square feet.

2016 TITLE 24 §130.5(D)(4) For hotel and motel guest rooms, install controlled receptacles for at least one-half of the 120-volt receptacles in each guestroom. Electric circuits serving controlled receptacles in guestrooms shall have captive card key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guestroom has been vacated.

ELECTRICAL SYMBOLS LEGEND

	RECESSED FIXTURE - ROUND		FLUSH MOUNT J-BOX
	RECESSED WALL WASH FIXTURE - ROUND		OCCUPANCY SENSOR
	RECESSED FIXTURE - SQUARE		POWER PACK
	RECESSED WALL WASH FIXTURE - SQUARE		POWER RELAY
	PENDANT FIXTURE		PANELBOARD
	WALL MOUNTED FIXTURE		DUPLEX RECEPTACLE
	2x2 LAY IN FIXTURE		1/2 HOT DUPLEX RECEPTACLE
	2x4 LAY IN FIXTURE		GFCI RECEPTACLE
	1x4 SURFACE-MOUNTED FIXTURE		QUADPLEX RECEPTACLE
	HATCHING INDICATES EMERGENCY FIXTURE		1/2 HOT QUADPLEX RECEPTACLE
	RIBBON LIGHT AT COVE		ABOVE COUNTER RECEPTACLE
	LINEAR PENDANT FIXTURE		208V RECEPTACLE - VTAC/RANGE/OTHER
	LINEAR RECESSED FIXTURE		CAT6 TELEPHONE JACK
	ELEVATOR PIT FIXTURE		CAT6 DATA JACK
	ELECTRIC BACKLIT MIRROR		COMBINATION TELEPHONE/DATA JACK
	ELECTRIC BATHROOM EXHAUST FAN		RG6U COAX FOR TV
	POLE MOUNTED FIXTURE		WALL SWITCH 3 THREE WAY
	LANDSCAPE UPLIGHT - SPOT, 12V		OCCUPANCY SENSOR
	CEILING MOUNTED, UPPER EXIT SIGN SHADED REGION INDICATES FACE		DIMMER
	WALL MOUNTED, UPPER EXIT SIGN SHADED REGION INDICATES FACE		TAMPER OR KEY OPERATED
	WALL MOUNTED, LOWER EXIT SIGN SHADED REGION INDICATES FACE		CAPTIVE CARD
	EMERGENCY LIGHT FIXTURE		TIMER
	EMERGENCY LIGHT FIXTURE		KEYED NOTED
	EMERGENCY LIGHT FIXTURE		INDICATES VIEW ## ON SHEET LTG-#

ABBREVIATIONS

(D)	DEMO
(E)	EXISTING
(F)	FUTURE
(N)	NEW
(R)	RELOCATED
AC	ABOVE COUNTER, 4" ABOVE BACKSPLASH
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AL	ALUMINUM
BLG	BELOW GRADE
BOD	BOTTOM OF DEVICE
C	CONDUIT
COD	CENTER OF DEVICE
CU	COPPER
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GES	GROUNDING ELECTRODE SYSTEM
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
MC	MECHANICAL CONTRACTOR
NL	NIGHT LIGHT
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UTW	UNSHIELDED TWISTED PAIR
WP	WEATHERPROOF
XFMR	TRANSFORMER

CIRCUITING

	LIGHTING CIRCUIT CONDUIT CONCEALED IN CEILING OR WALL.
	OCCUPANCY SENSOR-CONTROLLED LIGHTING CIRCUIT CONDUIT CONCEALED IN CEILING OR WALL.
	NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS IN CABLE. GROUND WIRE NOT SHOWN, BUT SHALL BE INCLUDED. NO HASH MARKS INDICATES 2 CONDUCTORS PLUS GROUND.
	LIGHTING CIRCUIT IN UNDERGROUND CONDUIT.
	LIGHTING CIRCUIT HOMERUN. NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS IN CABLE.
	O.S. CIRCUIT HOMERUN. NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS IN CABLE.

SHEET INDEX

SHEET NO.	SHEET NAME
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LTG-1.0B	CONCEPTUAL SITE LIGHTING PLAN - SOUTH
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LTG-1.1B	SITE PHOTOMETRICS - SOUTH
LTG-2.0	LIGHTING CUTSHEETS
LTG-2.1	LIGHTING CUTSHEETS

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DARRIN OLSON
P: 949.975.1122

PROJECT:
MAGNOLIA FLATS
RIVERSIDE, CA

DATE	DESCRIPTION
11.18.2019	FIRST ISSUANCE
02.24.2020	REVISED SITE LIGHTING & PHOTOMETRICS
07.16.2020	RESPONSE TO PLANNING REVIEW
01.20.2021	PLANNING COMMISSION REVIEW

PRELIMINARY



NOT FOR CONSTRUCTION

DRAWN BY: SG

CHECKED BY:

SCALE: AS SHOWN

SHEET TITLE:

SHEET INDEX
NOTES
ABBREVIATIONS
& SYMBOLS

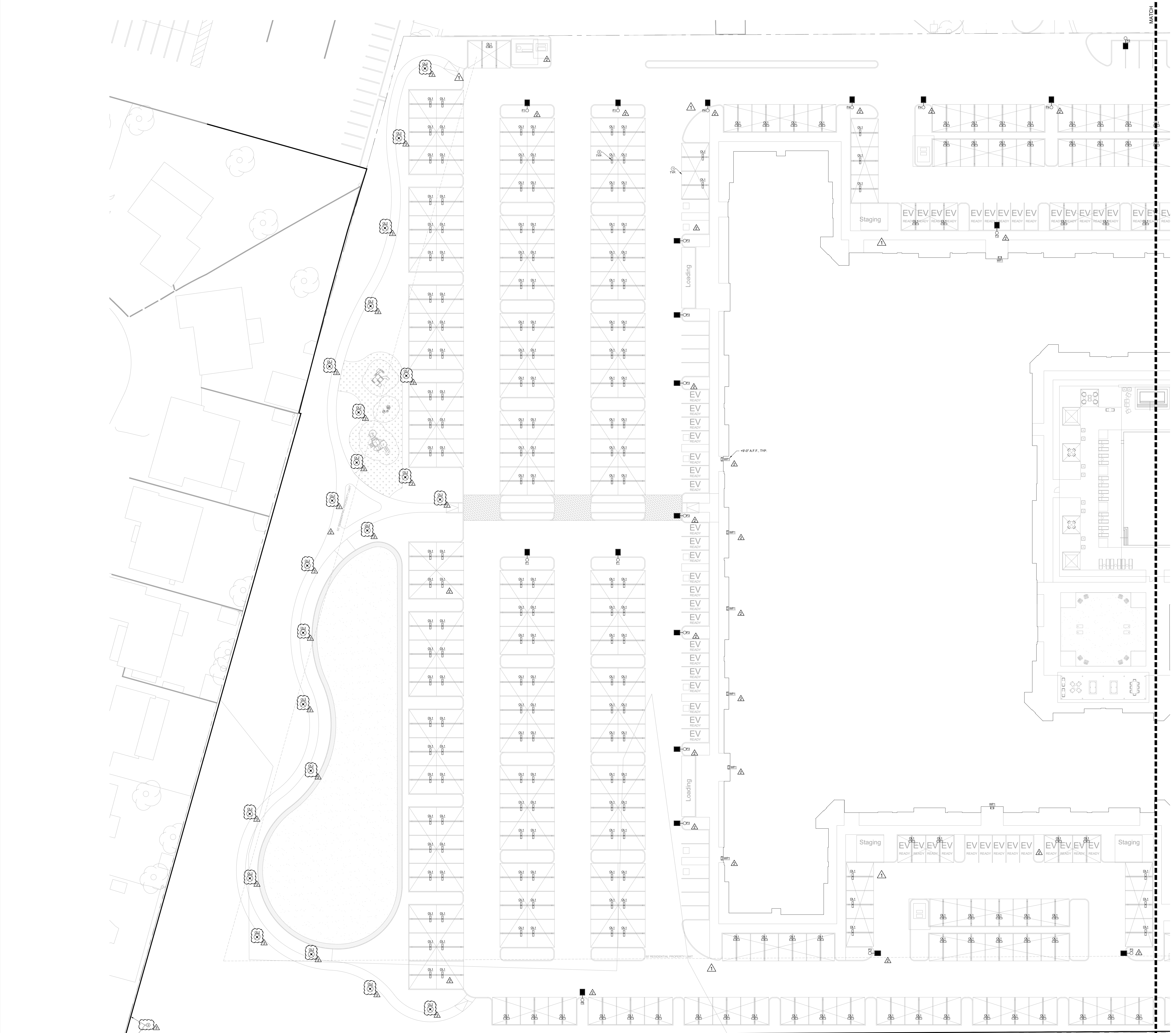
SHEET NO.:

LTG-0.1

MAGNOLIA-FLATS 1/20/2021 12:12 PM

P19-0683 (PPE) & P20-0133 (CUP) Exhibit 8d - Project Plans
10411-10481 Magnolia Avenue

CONCEPTUAL SITE LIGHTING PLAN - NORTH
SCALE: 1" = 25'-0"



GENERAL NOTES:

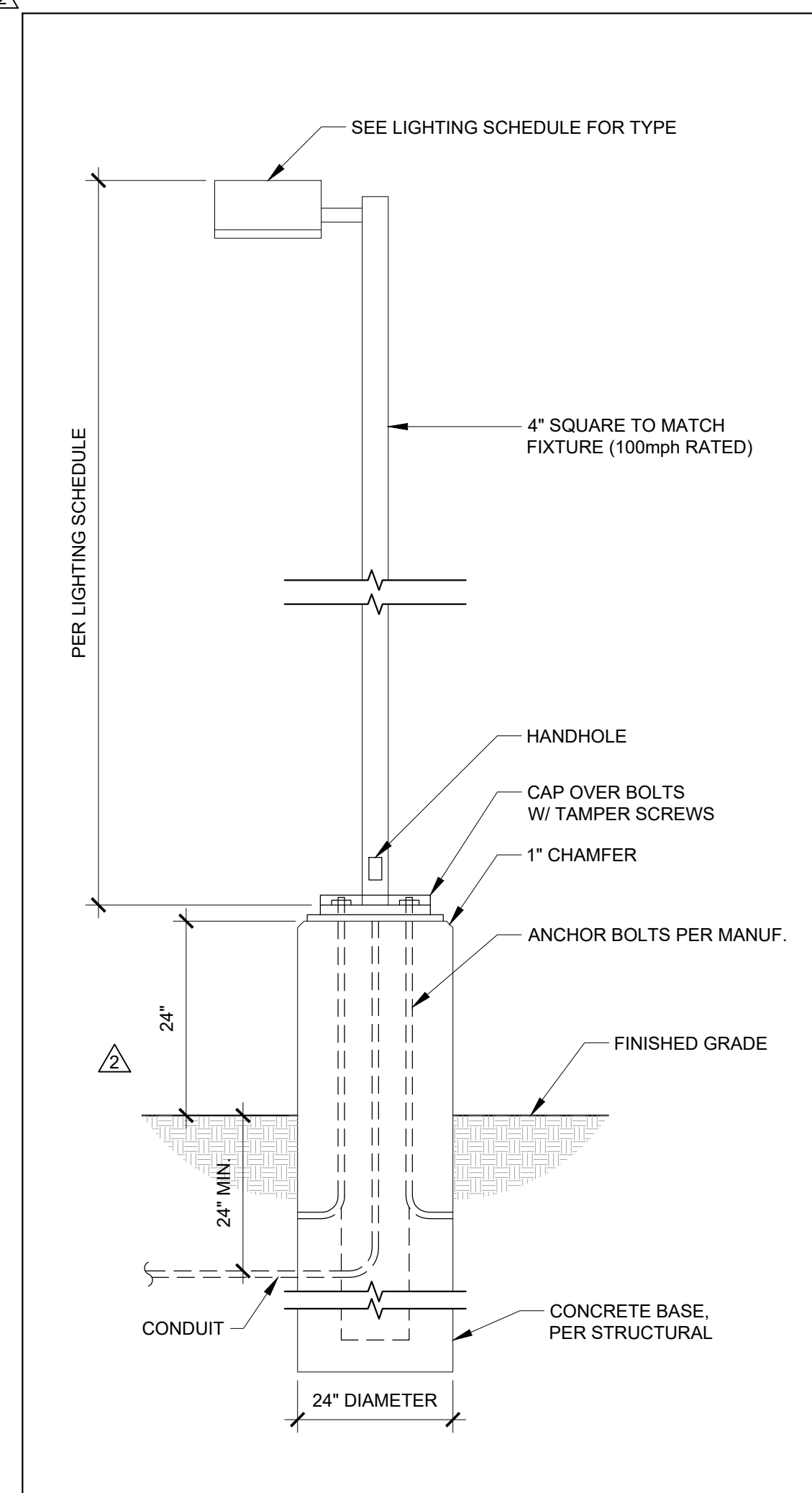
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- INSTALL FIXTURE 'OL1' SO THAT LIGHT SOURCE SHINES OUTWARDS, TOWARDS DRIVE AISLE
- EXISTING CMU PERIMETER WALL. REFER TO CIVIL DRAWINGS FOR GRADING, SECTIONS, DETAILS AND SPECIFICATIONS. WALL HEIGHT IS EXISTING, TO REMAIN.

KEY NOTES:

- LINE OF CARPORT ABOVE
- EXISTING CMU PERIMETER WALL. REFER TO CIVIL DRAWINGS FOR GRADING, SECTIONS, DETAILS AND SPECIFICATIONS. WALL HEIGHT IS EXISTING, TO REMAIN.

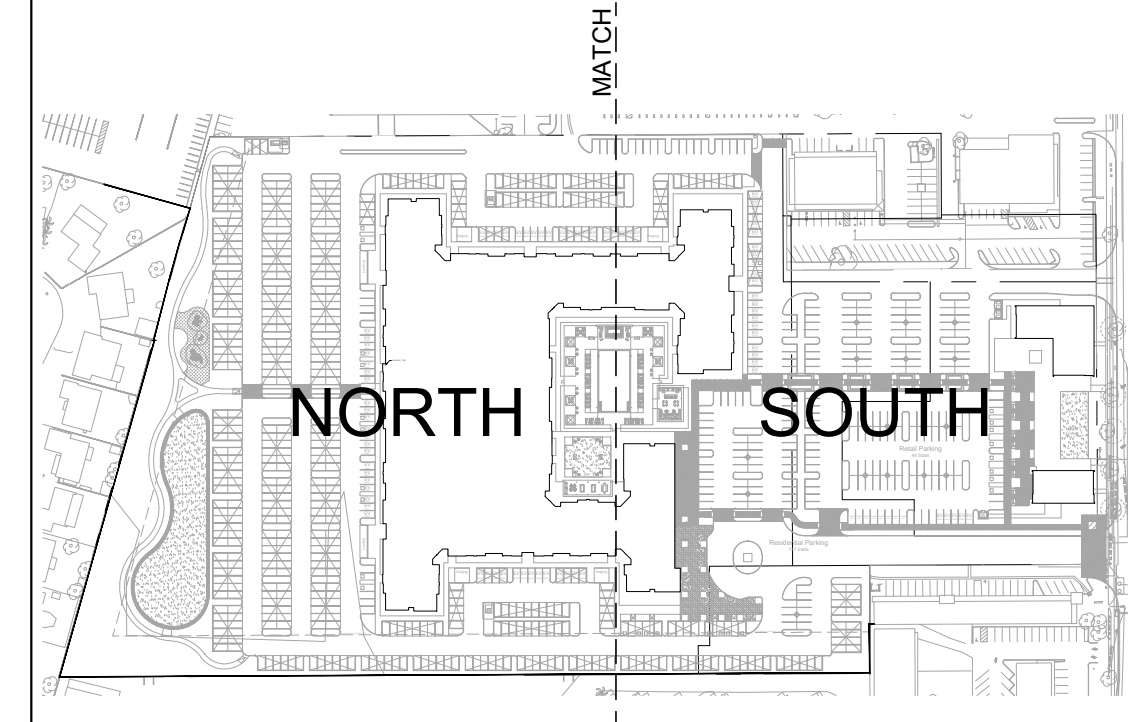
FIXTURE SCHEDULE:

OL1		57W, VAPOR TIGHT, LINEAR LED 4000K
OL2		45W, POST-TOP LIGHT, BRONZE 4000K 12'-0" TALL, BRONZE POLE
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WP1		15W, LED SLIM WALL PACK 4000K



PARKING LOT LIGHT POLE
NOT TO SCALE **A**

KEY PLAN:



LIGHTING CONSULTANT



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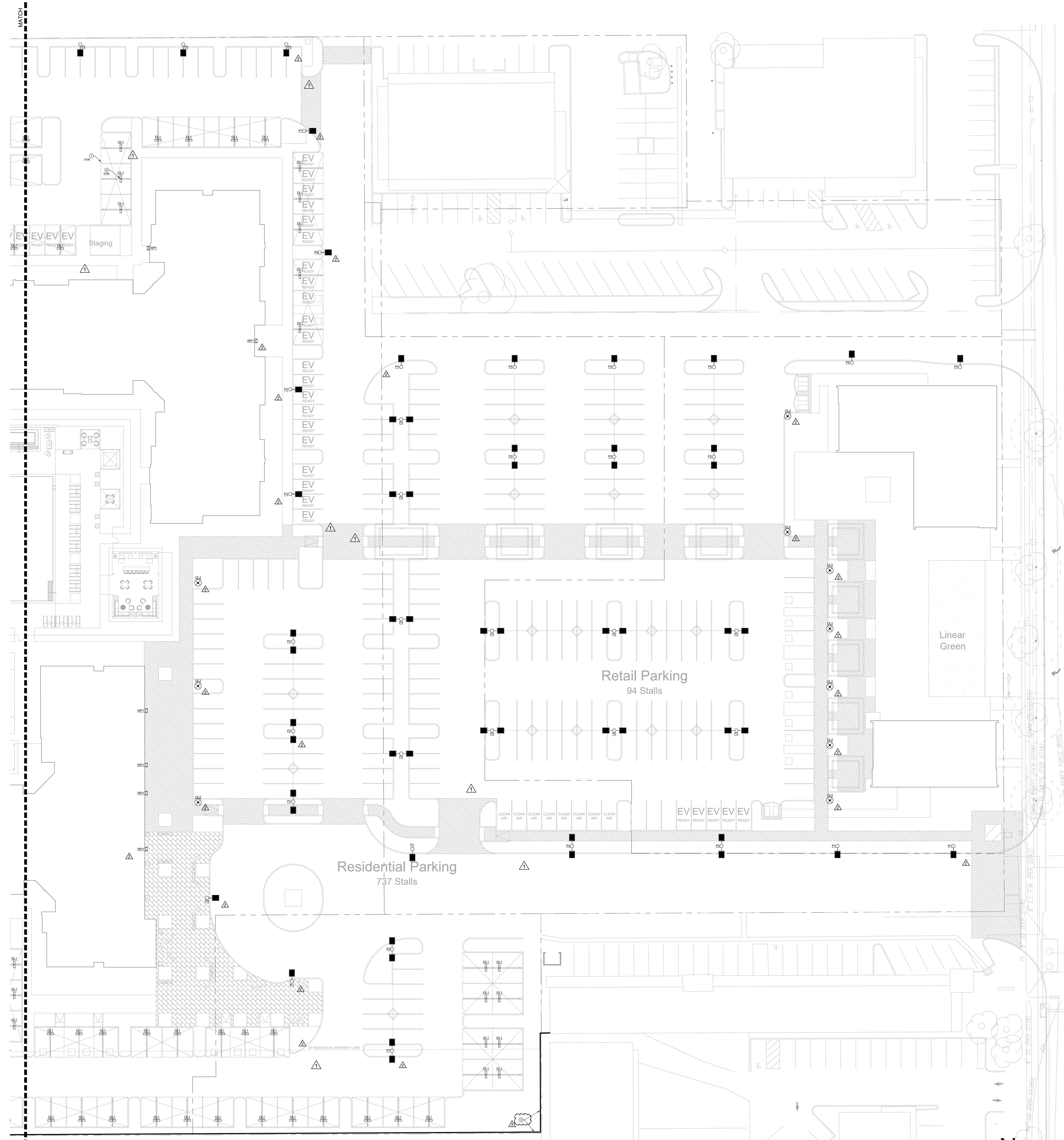
PROJECT:
MAGNOLIA FLATS
RIVERSIDE, CA

DESCRIPTION	DATE	REVISION
FIRST ISSUANCE	11.18.2019	
REVISED SITE LIGHTING & PHOTOMETRICS	02.24.2020	Δ
RESPONSE TO PLANNING REVIEW	07.16.2020	Δ
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PRELIMINARY

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SCALE: AS SHOWN
SHEET TITLE:
CONCEPTUAL SITE LIGHTING PLAN - NORTH
SHEET NO.:
LTG-1.0A



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RESPONSE TO PLANNING REVIEW	07.16.2020
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PRELIMINARY



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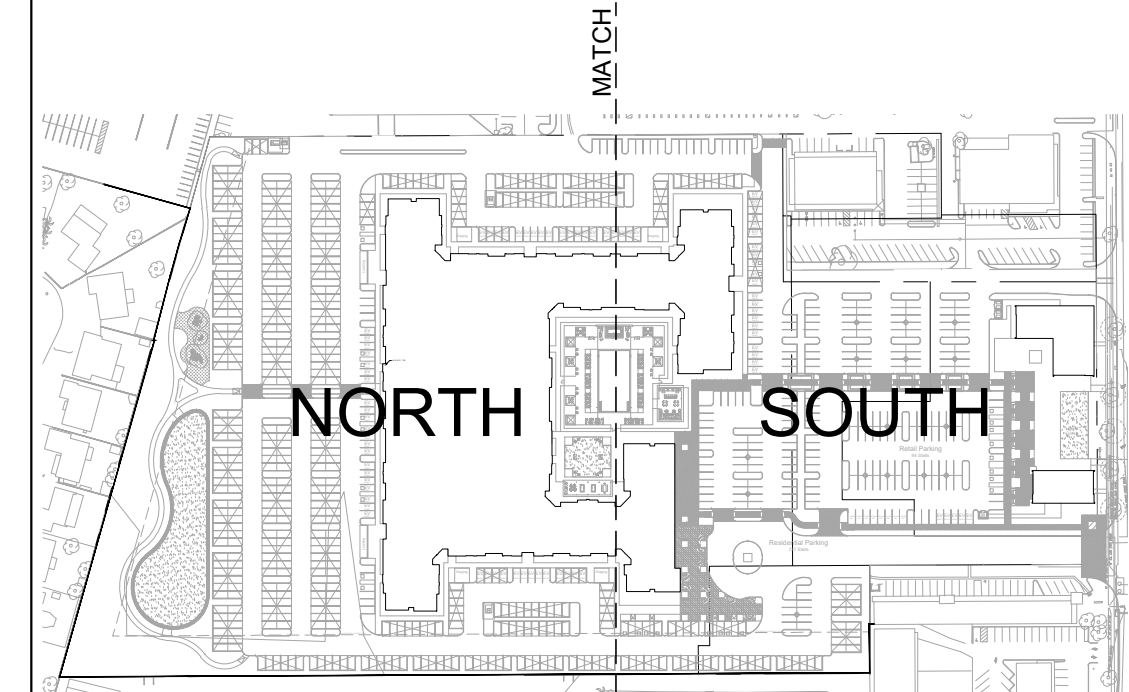
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SHEET TITLE:
CONCEPTUAL SITE LIGHTING PLAN - SOUTH

SHEET NO.:
LTG-1.0B

KEY PLAN:



CONCEPTUAL SITE LIGHTING PLAN - SOUTH
SCALE: 1" = 25'-0"

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SITE PHOTOMETRICS - NORTH
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- CALCULATION ZONES BEYOND PROPERTY LINE ARE 5'x5' GRIDS.
- CALCULATION ZONES AT THE OPEN PARK SPACE ARE 3'x3' GRIDS.

PHOTOMETRIC STATISTICS:

Location	Symbol	Avg	Max	Min	Max/Min	Avg/Min
10' Beyond PL (Non-Resi)	*	0.4 fc	2.3 fc	0.0 fc	N/A	N/A
10' Beyond PL (Residential)	*	0.0 fc	0.0 fc	0.0 fc	N/A	N/A
Dog Park	*	0.8 fc	5.0 fc	0.1 fc	50.0:1	8.0:1
Parking Lot	+	2.8 fc	8.0 fc	1.0 fc	8.0:1	2.8:1
Playground	x	3.5 fc	6.0 fc	1.0 fc	6.0:1	3.5:1
Park Walkway	o	3.3 fc	5.8 fc	1.0 fc	5.8:1	3.3:1

LIGHTING CONSULTANT

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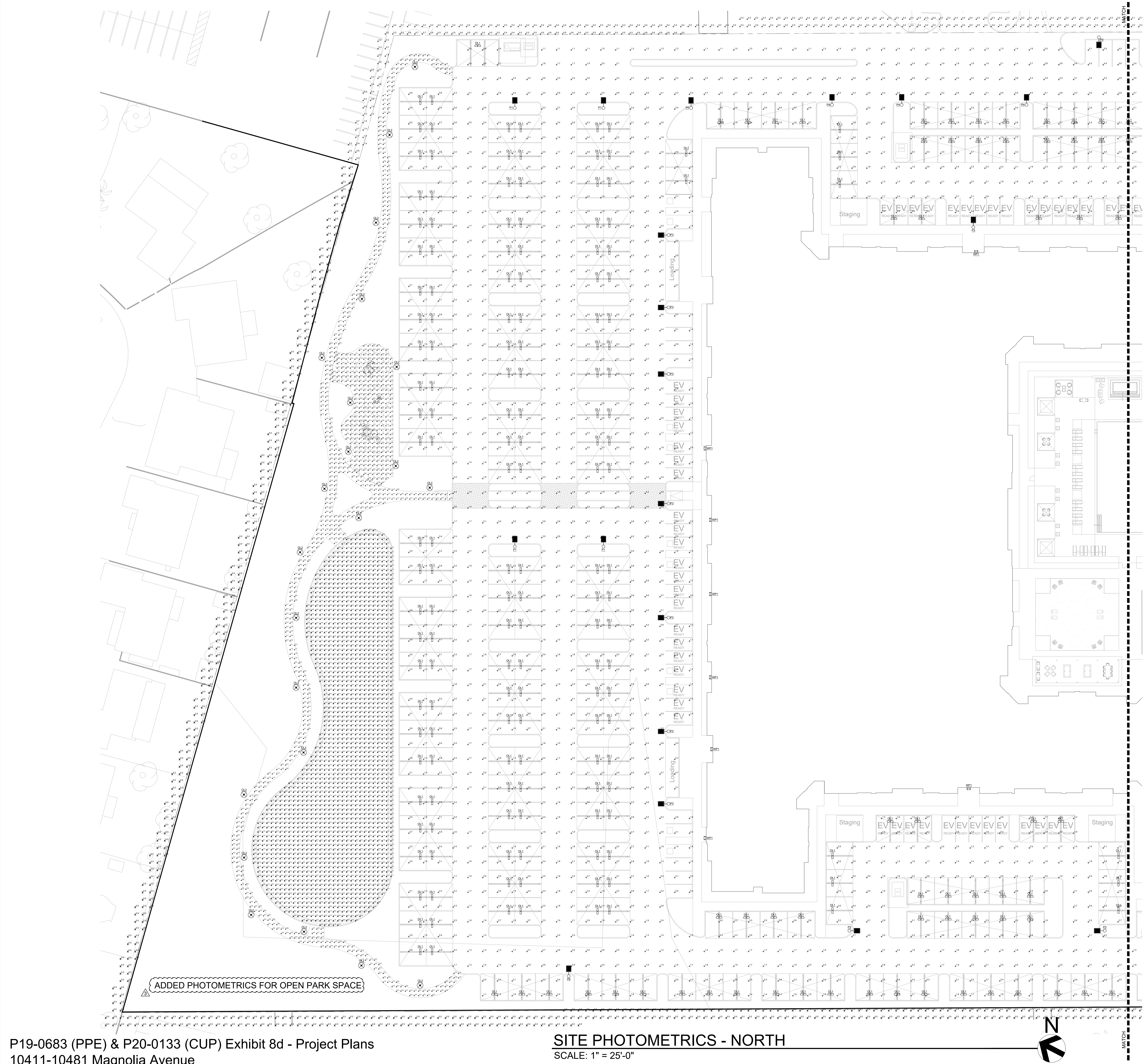
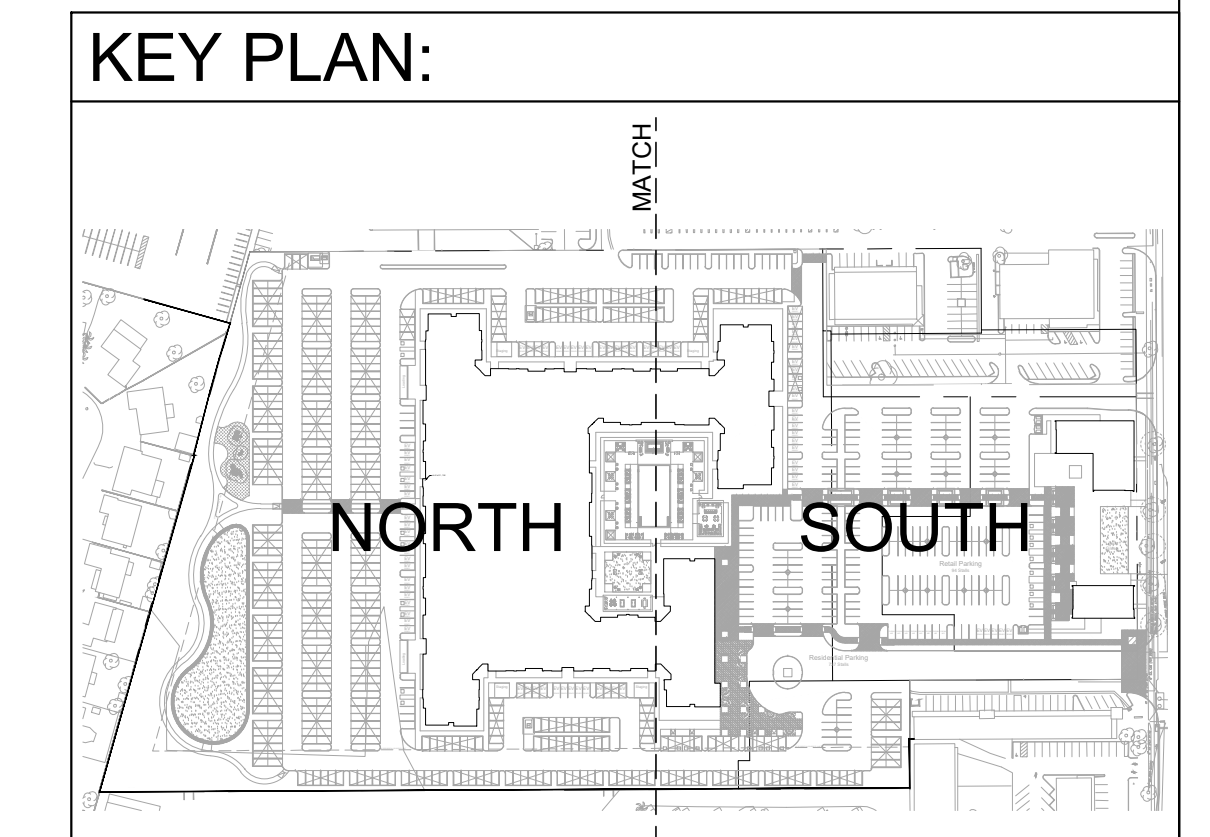
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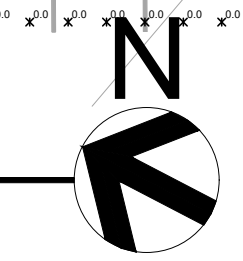
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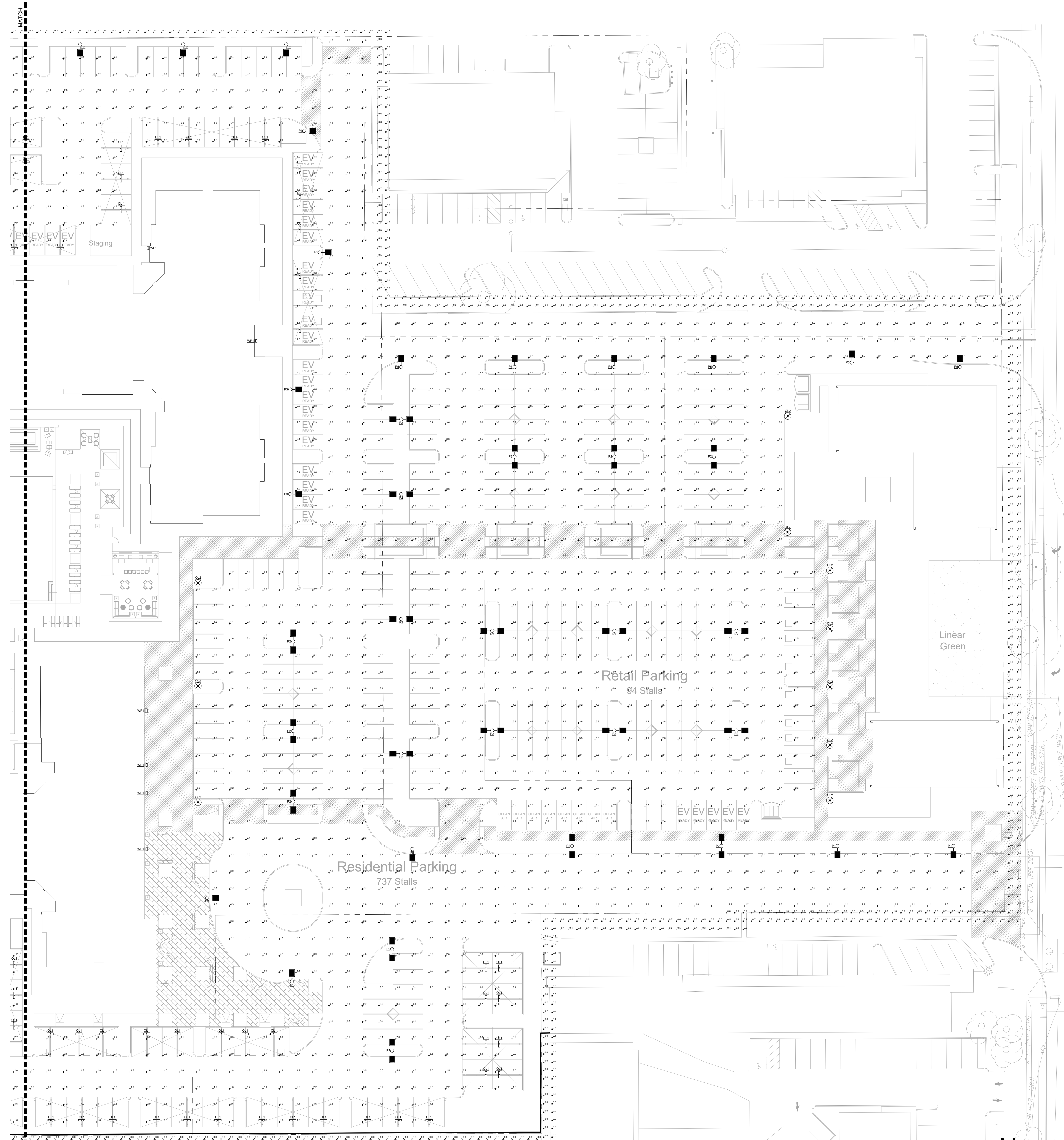
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SHEET TITLE:
SITE PHOTOMETRICS - NORTH
SHEET NO.:
LTG-1.1A



ADDED PHOTOMETRICS FOR OPEN PARK SPACE





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P3		DUAL, 72W LED HEADS, BRONZE 4000K, TYPE 4 DISTRIBUTION 12'-0" TALL, BRONZE POLE ON 2'-0" BASE
WP1		15W, LED SLIM WALL PACK 4000K

DESCRIPTION	DATE
FIRST ISSUANCE	11.18.2019
REVISED SITE LIGHTING & PHOTOMETRICS	02.24.2020
RESPONSE TO PLANNING REVIEW	07.16.2020
PLANNING COMMISSION REVIEW	01.20.2021

PRELIMINARY



DRAWN BY: SG

CHECKED BY:

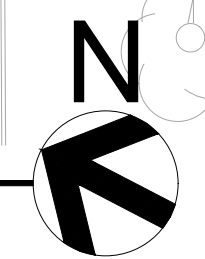
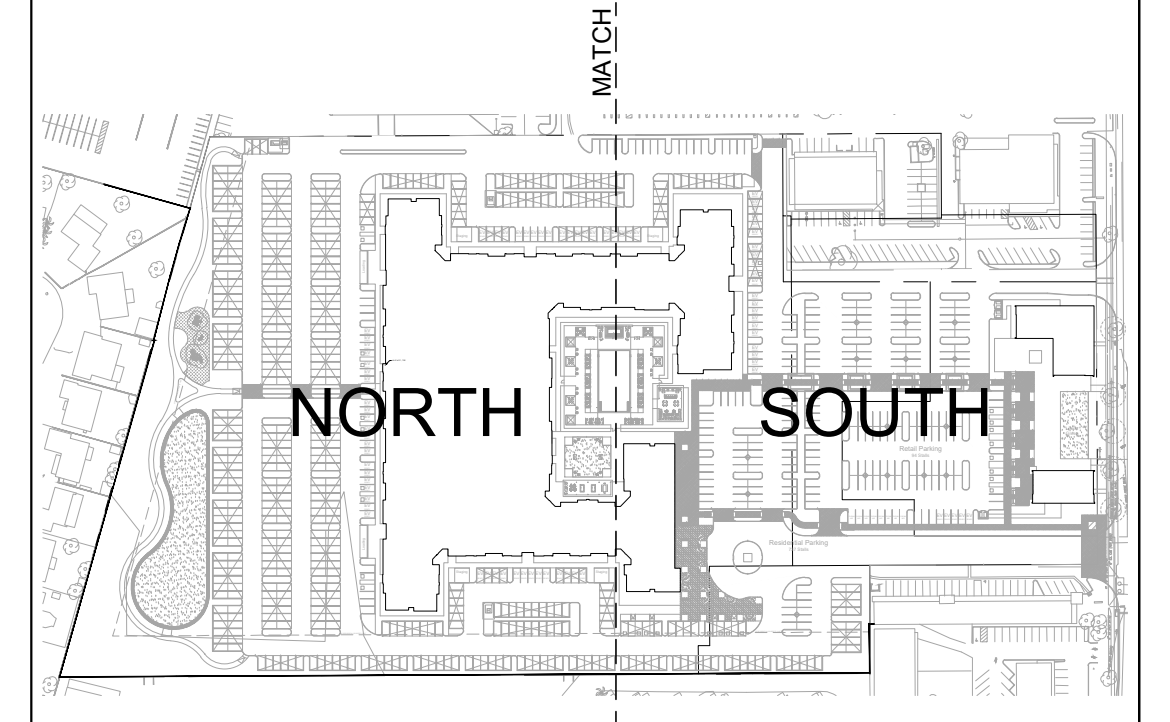
SCALE: AS SHOWN

SHEET TITLE:
SITE
PHOTOMETRICS -
SOUTH

SHEET NO.:

LTG-1.1B

KEY PLAN:



LAP-2G LED AREA / PARKING / STREET LIGHT. Application, Features, Mounting, Electrical, Optics, and Listing information for the LAP-2G fixture.

LAP-2G LED AREA / PARKING / STREET LIGHT. Polar Candela Distribution, Illuminance at a Distance, and Distribution Data for the LAP-2G fixture.

LAP-2G LED AREA / PARKING / STREET LIGHT. Distribution Data (LAP-2G-141LED) for various mounting and beam configurations.

LAP-2G LED AREA / PARKING / STREET LIGHT. Detailed technical drawings and specifications for the LAP-2G fixture, including mounting options and dimensions.

FIXTURE TYPES 'P1' THRU 'P7' NOT TO SCALE. Summary table for fixture types P1 through P7.

FIXTURE TYPE 'OL1' NOT TO SCALE. Summary table for fixture type OL1.

naturaLED VAPOR TIGHT LED POST TOP LIGHT LPT-7. Product description, features, applications, specifications, and ordering information.

FIXTURE TYPE 'OL1' NOT TO SCALE. Summary table for fixture type OL1.

LPT-7 LED POST TOP LIGHT. Application, features, listing, electrical, and ordering information for the LPT-7 fixture.

VAPOR TIGHT LED POST TOP LIGHT. Ordering information table and photometric data for the Vapor Tight fixture.

FIXTURE TYPE 'OL1' NOT TO SCALE. Summary table for fixture type OL1.

LPT-7 LED POST TOP LIGHT. Distribution data and photometric data for various LPT-7 fixture configurations.

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