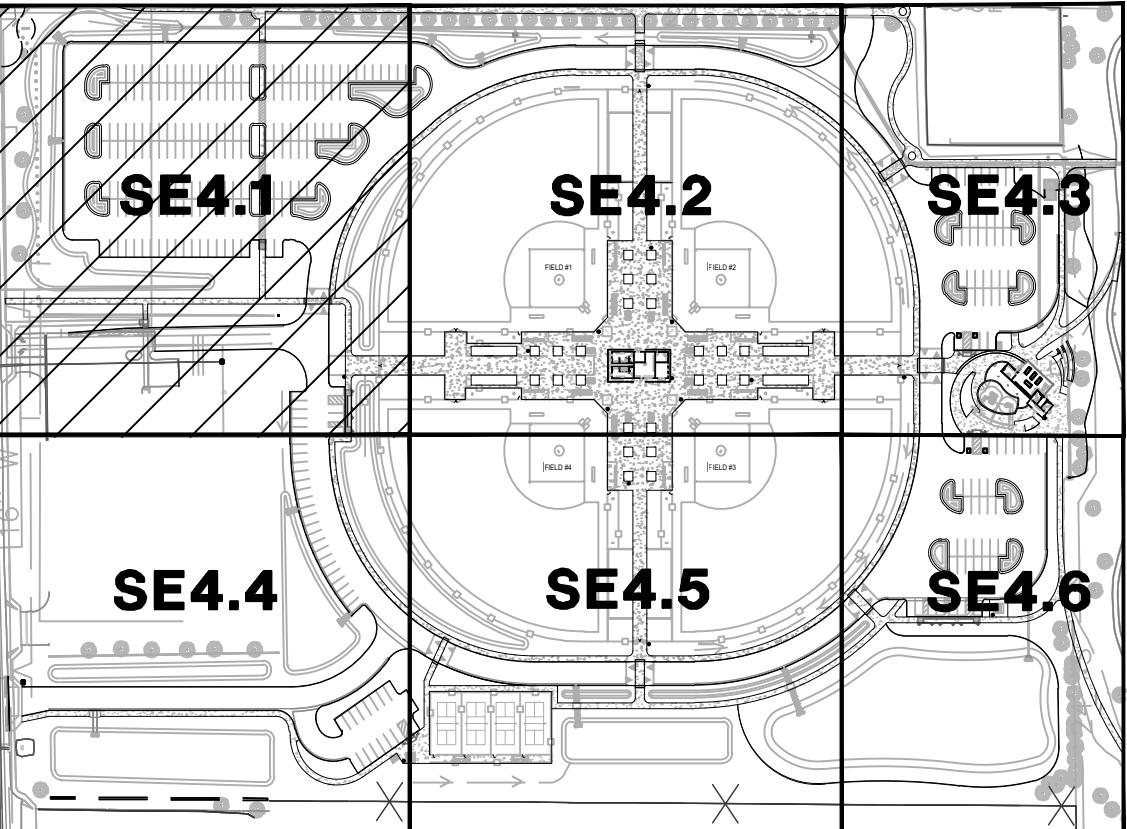
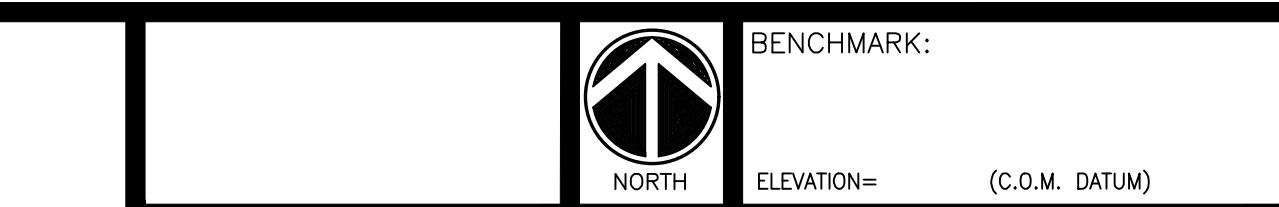
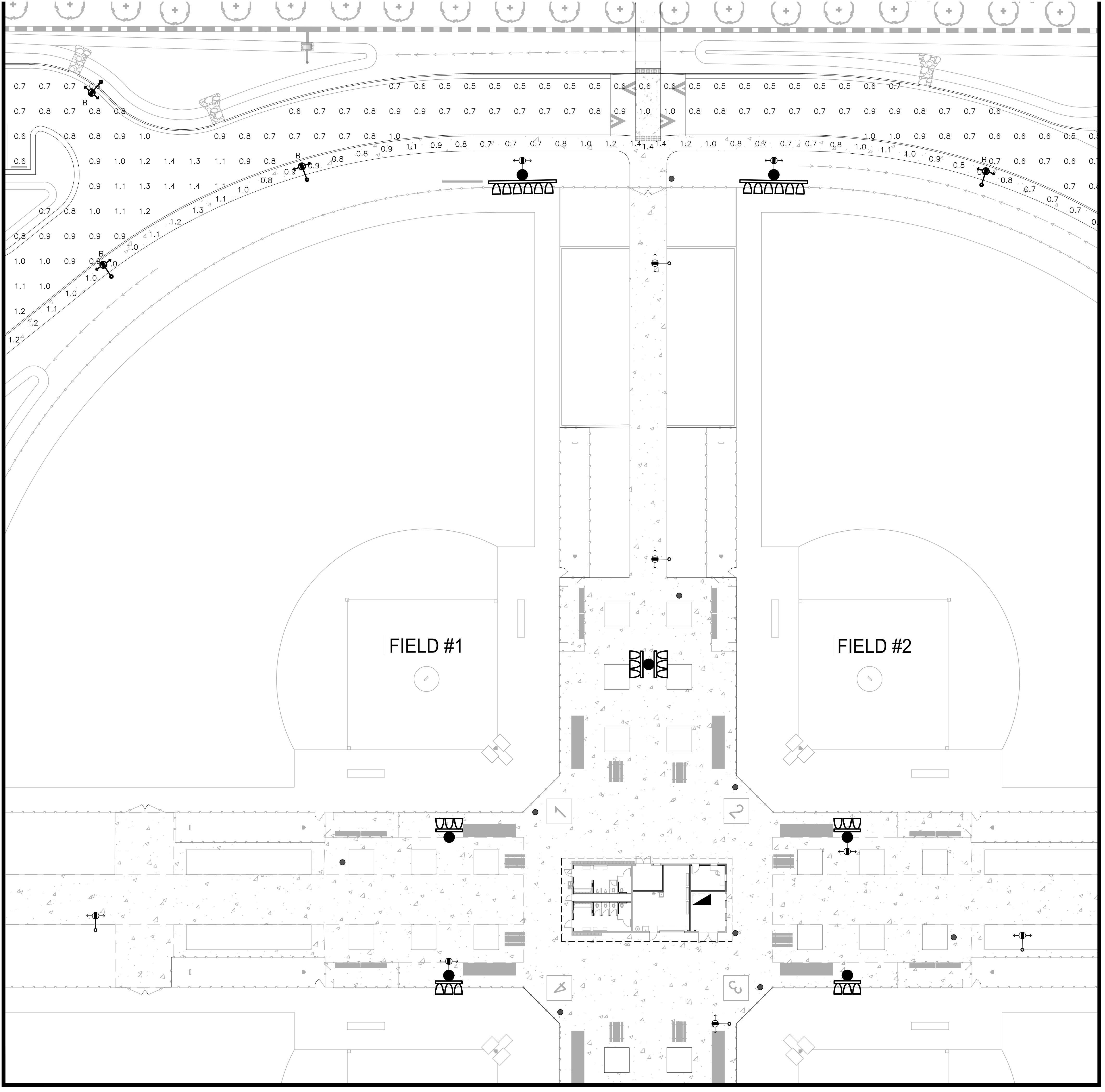


## PHOTOMETRIC RESULTS



CITY OF MESA  
ENGINEERING DEPARTMENT  
MONTEREY PARK EXPANSION  
DRAWING  
PRELIMINARY  
NOT FOR  
CONSTRUCTION  
**WRIGHT**  
engineering corporation  
165 EAST CHILTON DRIVE  
CHANDLER, ARIZONA 85225  
PHONE: 480.497.5829  
FAX: 480.497.5807  
www.wrightengineering.us  
Wright Project # 21127  
DRAWN BY: NAM  
ENGINEER: CMT  
APPROVED BY: CMT  
F165 AC \_\_\_\_\_  
PROJ. NO. \_\_\_\_\_  
SHEET 92 OF 108  
CATALOG NUMBER: \_\_\_\_\_

PHOTOMETRIC ANALYSIS  
SE4.1



### PHOTOMETRIC LEGEND

Through Road  
744 points  
HORIZONTAL FOOTCANDLES  
Average 1.0  
Maximum 7.2  
Minimum 0.5  
Avg:Min 2.00  
Max:Min 14.40  
Coef Var 0.63

Parking Lots  
1072 points  
HORIZONTAL FOOTCANDLES  
Average 1.1  
Maximum 8.3  
Minimum 0.3  
Avg:Min 3.61  
Max:Min 29.00  
Coef Var 0.62

Pathways  
586 points  
HORIZONTAL FOOTCANDLES  
Average 1.8  
Maximum 21.0  
Minimum 0.3  
Avg:Min 5.93  
Max:Min 70.00  
Coef Var 1.70

Pickleball Light  
candela file 'GALN-SA8D-730-U-5WQ-GRSHW\_48265 lumens.ies'  
128 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 493  
mounting height = 25 ft  
number locations= 60, number luminaires= 60  
kw all locations= 4.9

Playground Light

candela file 'ICM-E04-LED-E1-T4-7030.ies'  
84 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 97  
mounting height = 15 ft  
number locations= 10, number luminaires= 4  
kw all locations= 0.4

EXISTING LIGHT

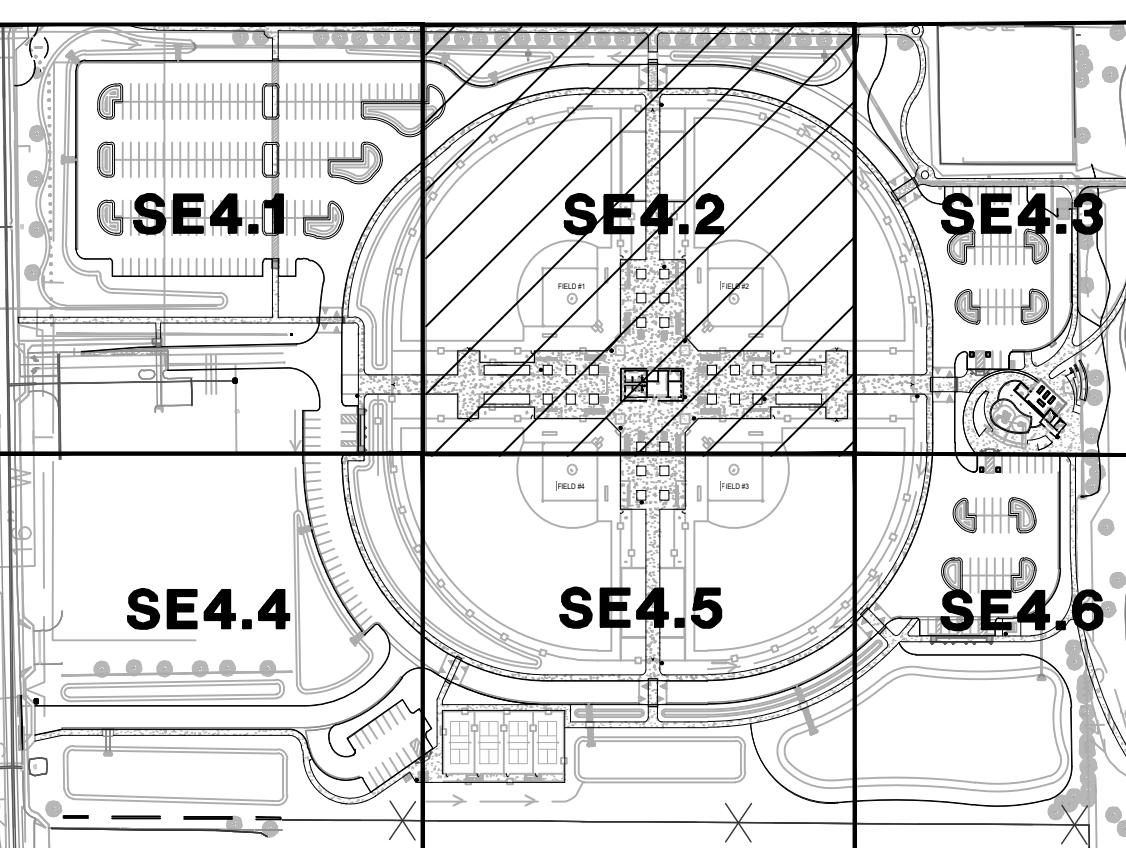
### PHOTOMETRIC RESULTS

Type 5 Parking Light  
candela file 'ICM-E02-LED-E1-5WQ-7030.ies'  
42 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 52  
mounting height = 25 ft  
number locations= 32, number luminaires= 32  
kw all locations= 1.7

Type 3 Roadway Light  
candela file 'ICM-E02-LED-E1-T3-7030.ies'  
42 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 52  
mounting height = 25 ft  
number locations= 60, number luminaires= 60  
kw all locations= 3.1

Pickleball Light  
candela file 'GALN-SA8D-730-U-5WQ-GRSHW\_48265 lumens.ies'  
128 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 493  
mounting height = 25 ft  
number locations= 60, number luminaires= 60  
kw all locations= 4.9

Playground Light  
candela file 'ICM-E04-LED-E1-T4-7030.ies'  
84 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 97  
mounting height = 15 ft  
number locations= 10, number luminaires= 4  
kw all locations= 0.4



PRELIMINARY  
NOT FOR  
CONSTRUCTION

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Wright Project # 21127

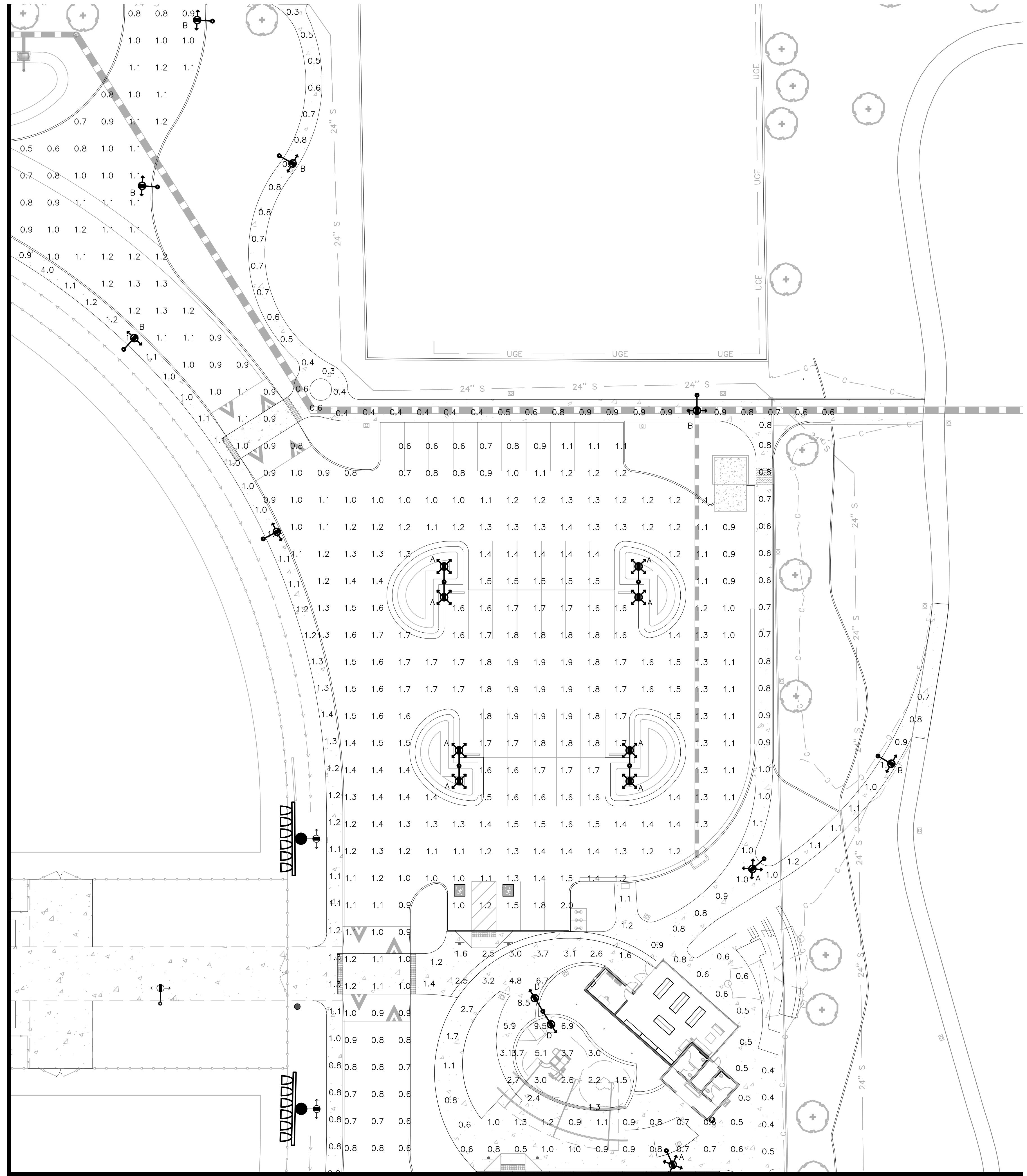
CITY OF MESA  
ENGINEERING DEPARTMENT  
MONTEREY PARK EXPANSION

PHOTOMETRIC ANALYSIS

DRAWING  
SE4.2

SHEET  
93 OF 108

CATALOG NUMBER:



## PHOTOMETRIC LEGEND

Through Road  
744 points  
HORIZONTAL FOOTCANDLES  
Average 1.0  
Maximum 7.2  
Minimum 0.5  
Avg:Min 2.00  
Max:Min 14.40  
Coef Var 0.63

Parking Lots  
1072 points  
HORIZONTAL FOOTCANDLES  
Average 1.1  
Maximum 8.3  
Minimum 0.3  
Avg:Min 3.61  
Max:Min 29.00  
Coef Var 0.62

Pathways  
586 points  
HORIZONTAL FOOTCANDLES  
Average 1.8  
Maximum 21.0  
Minimum 0.3  
Avg:Min 5.93  
Max:Min 70.00  
Coef Var 1.70

Pickleball Light  
candela file 'GALN-SA8D-730-U-5WQ-GRSH\_48265 lumens.ies'  
42 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 493  
mounting height = 25 ft  
number locations= 60, number luminaires= 60  
kw all locations= 1.7

Playground Light  
candela file 'ICM-E04-LED-E1-T4-7030.ies'  
84 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 97  
mounting height = 15 ft  
number locations= 10, number luminaires= 10  
kw all locations= 0.4

EXISTING LIGHT

## PHOTOMETRIC RESULTS

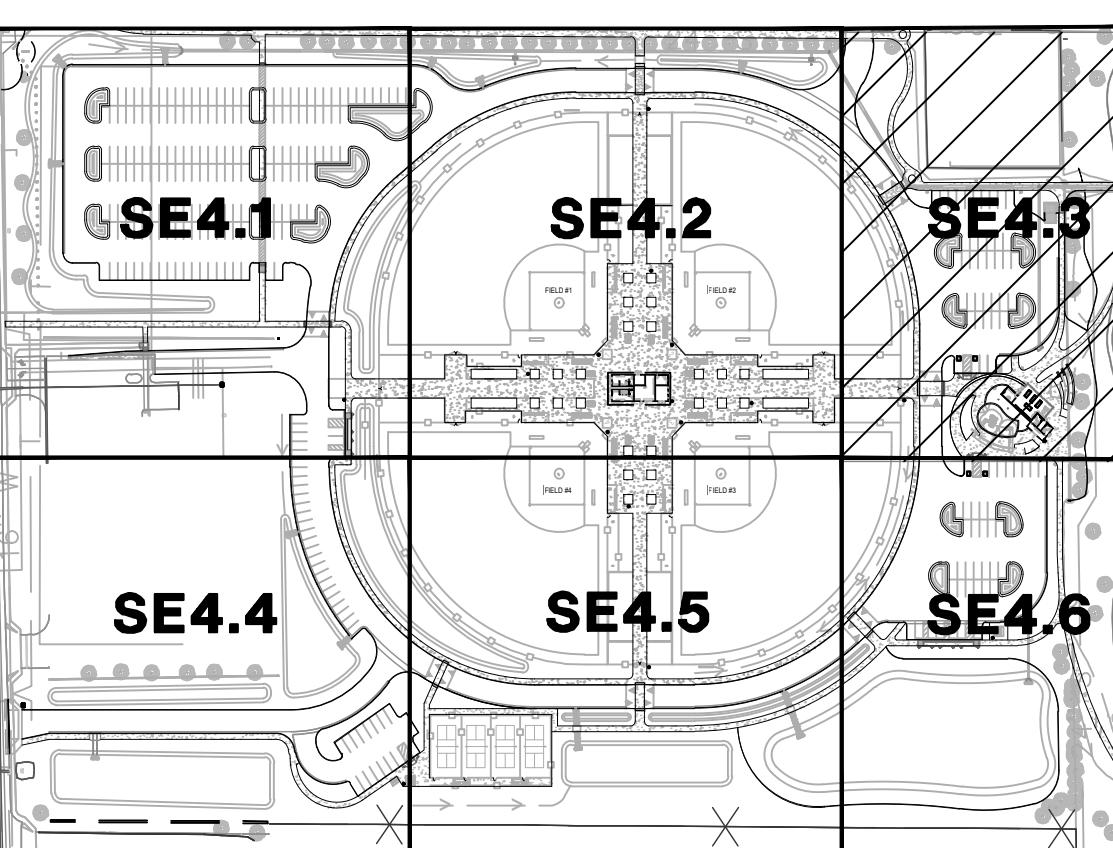
Type 5 Parking Light  
candela file 'ICM-E02-LED-E1-5WQ-7030.ies'  
42 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 52  
mounting height = 25 ft  
number locations= 32, number luminaires= 32  
kw all locations= 1.7

Type 3 Roadway Light  
candela file 'ICM-E02-LED-E1-T3-7030.ies'  
42 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 52  
mounting height = 25 ft  
number locations= 60, number luminaires= 60  
kw all locations= 3.1

Pickleball Light  
candela file 'GALN-SA8D-730-U-5WQ-GRSH\_48265 lumens.ies'  
128 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 493  
mounting height = 25 ft  
number locations= 10, number luminaires= 10  
kw all locations= 4.9

Playground Light  
candela file 'ICM-E04-LED-E1-T4-7030.ies'  
84 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 97  
mounting height = 15 ft  
number locations= 10, number luminaires= 10  
kw all locations= 0.4

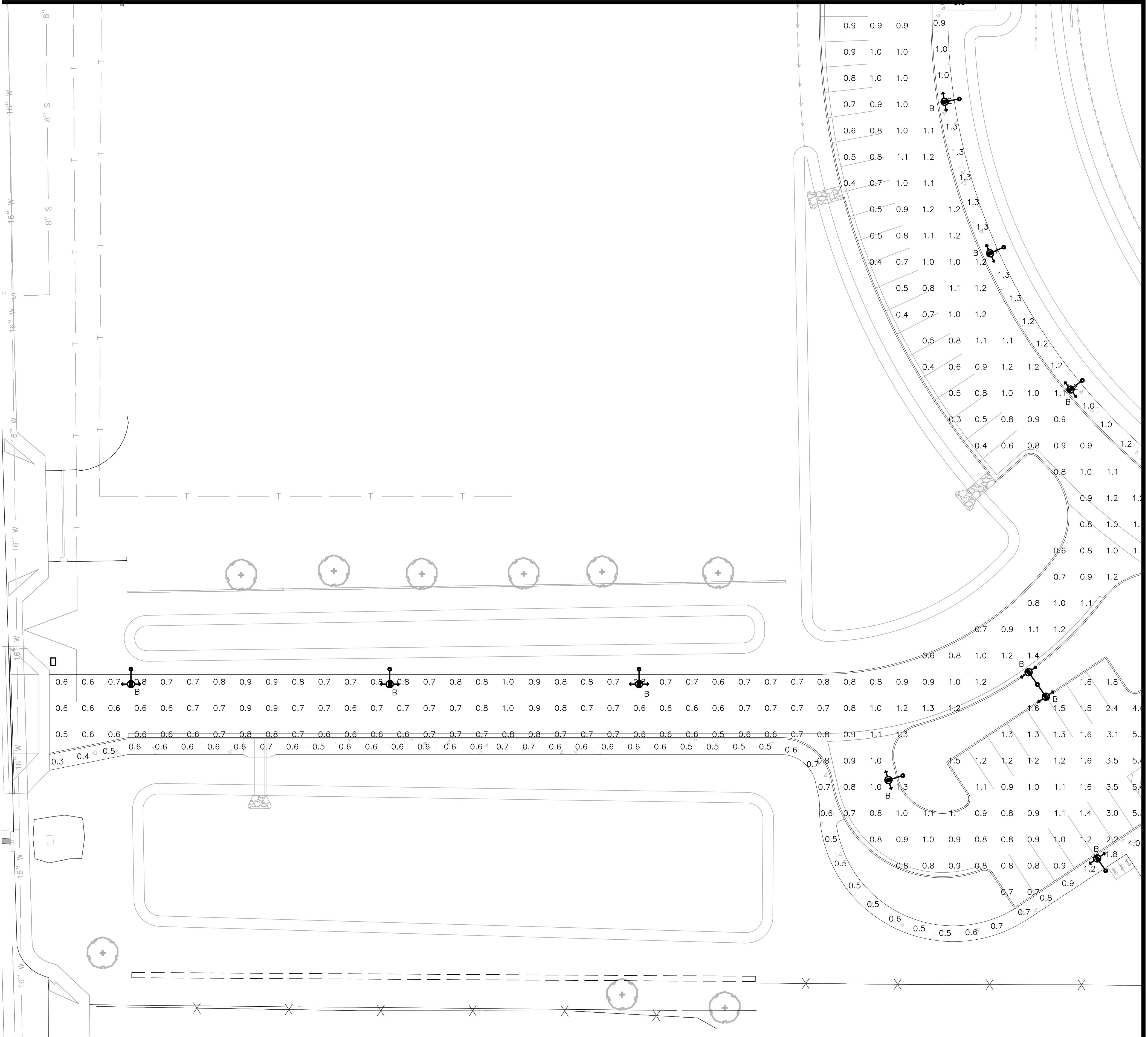
EXISTING LIGHT



**WRIGHT**  
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ELECTRICAL ENGINEERING AND DESIGN  
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CHANDLER, ARIZONA 85225  
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[www.wrightengineering.us](http://www.wrightengineering.us)  
Wright Project # 21127

CITY OF MESA  
ENGINEERING DEPARTMENT  
MONTEREY PARK EXPANSION  
PHOTOMETRIC ANALYSIS  
DRAWING  
SE4.3  
DRAWN BY: NAM  
ENGINEER: CM  
APPROVED BY: CMT  
F165 AC \_\_\_\_\_  
PROJ. NO. \_\_\_\_\_  
CATALOG NUMBER:  
94 OF 108

BENCHMARK:  
NORTH ELEVATION= (C.O.M. DATUM)



### PHOTOMETRIC LEGEND

Through Road  
744 points  
HORIZONTAL FOOTCANDLES  
Average 1.0  
Maximum 7.2  
Minimum 0.5  
Avg:Min 2.00  
Max:Min 14.40  
Coef Var 0.63

Parking Lots  
1072 points  
HORIZONTAL FOOTCANDLES  
Average 1.1  
Maximum 8.1  
Minimum 0.3  
Avg:Min 3.61  
Max:Min 29.00  
Coef Var 0.62

Pathways  
586 points  
HORIZONTAL FOOTCANDLES  
Average 1.8  
Maximum 21.0  
Minimum 0.3  
Avg:Min 5.93  
Max:Min 70.00  
Coef Var 1.70

Pickleball  
60 points  
HORIZONTAL FOOTCANDLES  
Average 31.4  
Maximum 45.7  
Minimum 17.1  
Avg:Min 1.84  
Max:Min 2.67  
Coef Var 0.27

Playground  
11 points  
HORIZONTAL FOOTCANDLES  
Average 3.9  
Maximum 9.5  
Minimum 1.3  
Avg:Min 2.97  
Max:Min 7.31  
Coef Var 0.61

### PHOTOMETRIC RESULTS

Type 5 Parking Light  
candela file 'ICM-E02-LED-E1-5WQ-7030.ies'  
42 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 52  
mounting height= 25 ft  
number locations= 32, number luminaires= 32  
kw all locations= 1.7

Type 3 Roadway Light  
candela file 'ICM-E02-LED-E1-T3-7030.ies'  
42 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 52  
mounting height= 25 ft  
number locations= 60, number luminaires= 60  
kw all locations= 3.1

Pickleball Light  
candela file 'GALN-SABD-730-U-5WQ-GRSH\_48265 lumens.ies'  
128 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 493  
mounting height= 25 ft  
number locations= 10, number luminaires= 10  
kw all locations= 4.9

Playground Light  
candela file 'ICM-E04-LED-E1-T4-7030.ies'  
84 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 97  
mounting height= 15 ft  
number locations= 4, number luminaires= 4  
kw all locations= 0.4

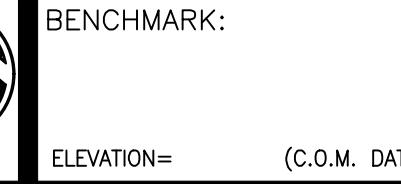
EXISTING LIGHT

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1 INCH = 20 FEET

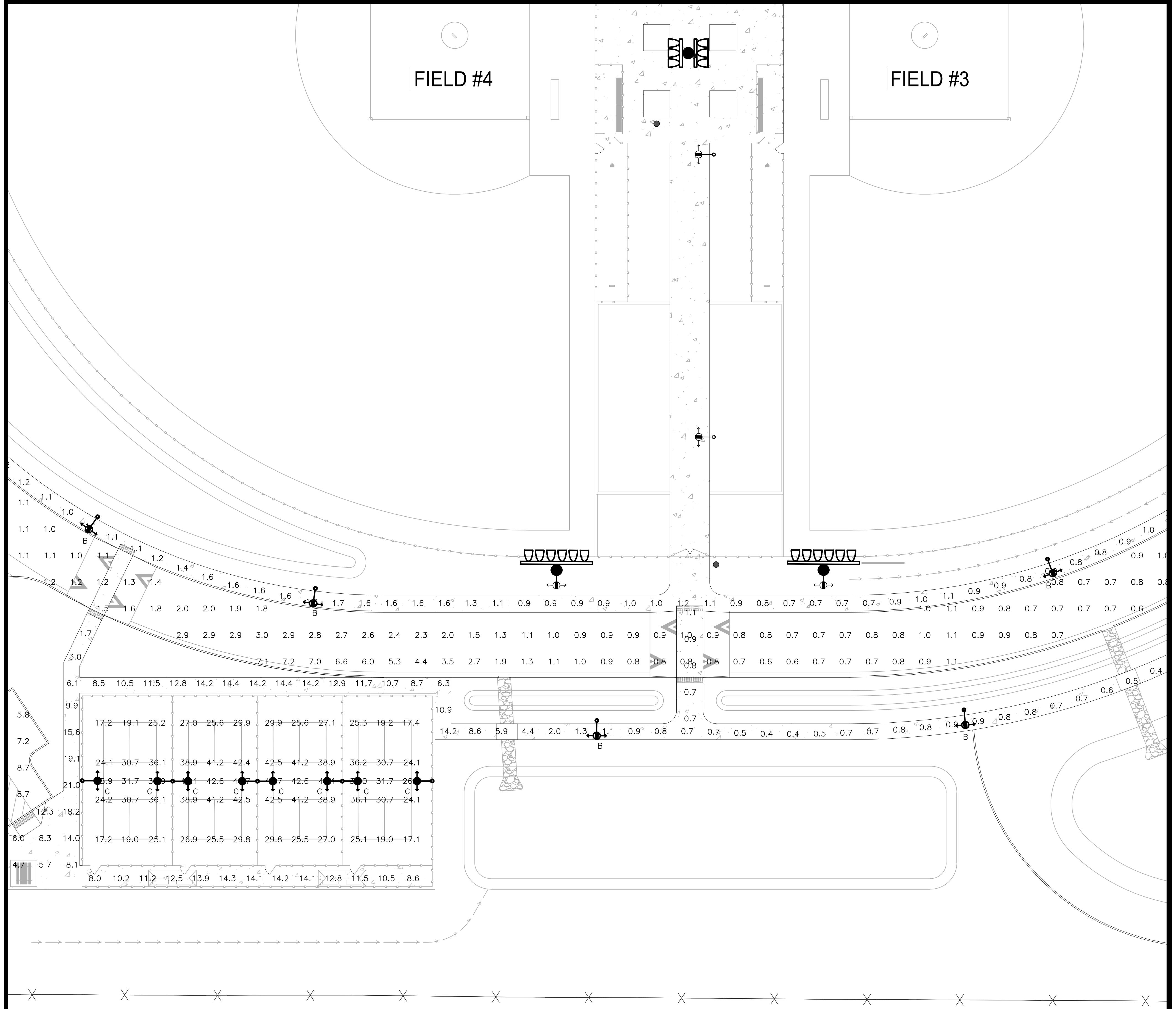
**WRIGHT**  
engineering corporation  
ELECTRICAL ENGINEERING AND DESIGN  
165 EAST CHILTON DRIVE  
CHANDLER, ARIZONA 85225  
PHONE: 480.497.5829  
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Wright Project # 21127

CITY OF MESA  
ENGINEERING DEPARTMENT  
MONTEREY PARK EXPANSION

PHOTOMETRIC ANALYSIS  
SE4.4  
DRAWING  
SHEET  
OF 108  
CATALOG NUMBER:



BENCHMARK:  
NORTH ELEVATION= (C.O.M. DATUM)



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Wright Project # 21127

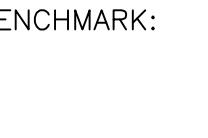
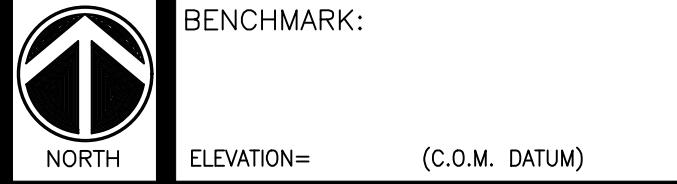
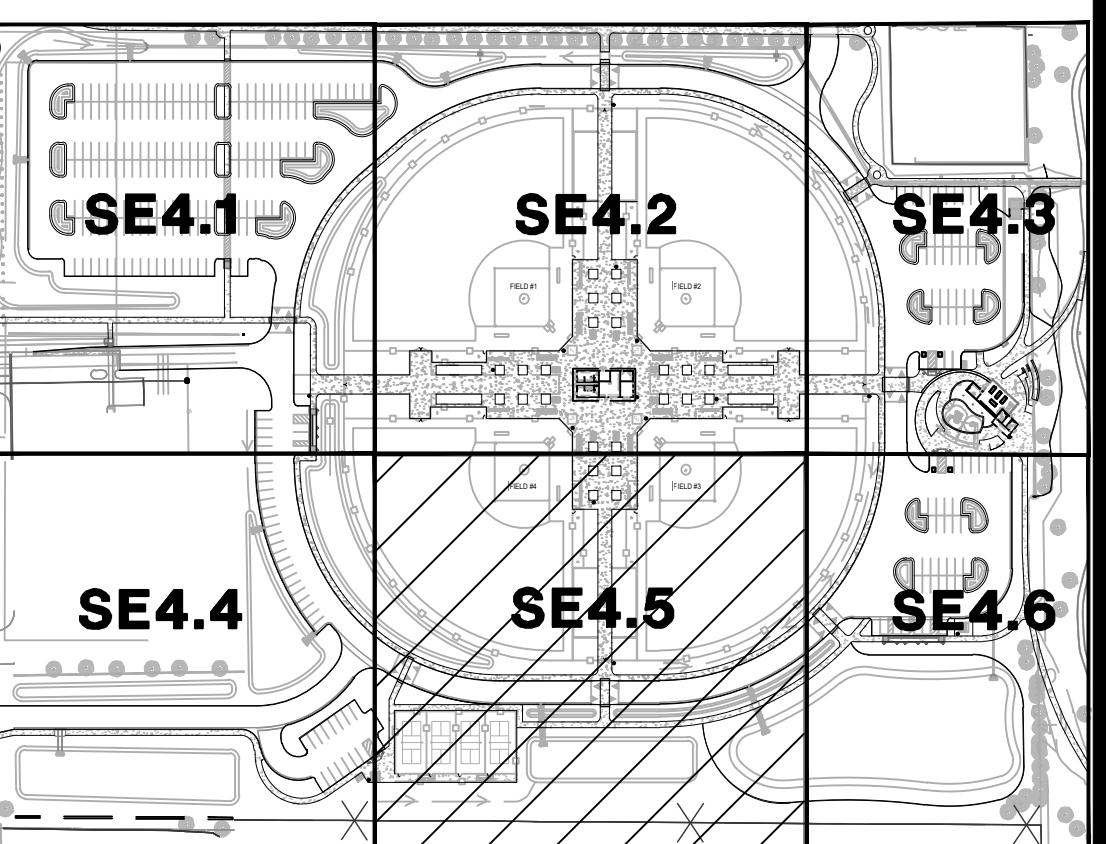
PRELIMINARY  
NOT FOR  
CONSTRUCTION

DRAWN BY: NAM  
ENGINEER: CM  
APPROVED BY: CMT  
F165 AC \_\_\_\_\_  
PROJ. NO. \_\_\_\_\_

PHOTOMETRIC ANALYSIS  
SE4.5

SHEET  
OF 108

CATALOG NUMBER:



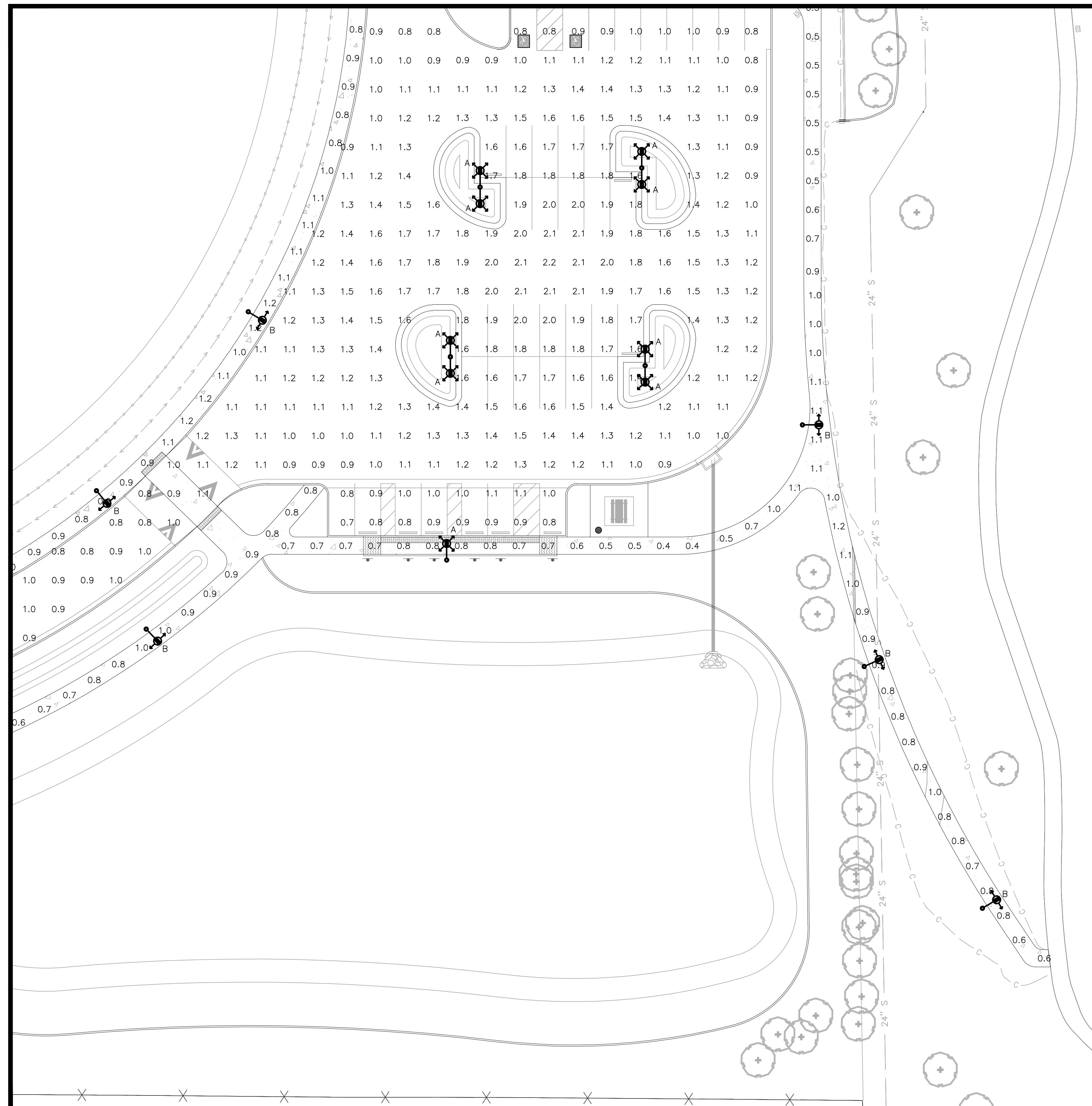
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1 INCH = 20 FEET

DATE SAVED: 5/12/22 FILE: 2021\21127-MONTEREY PARK EXPANSION CP0914\21127-SE-GMP2.DWG

CITY OF MESA  
ENGINEERING DEPARTMENT  
MONTEREY PARK EXPANSION

PHOTOMETRIC ANALYSIS  
SE4.5

DRAWING  
SE4.5



### PHOTOMETRIC LEGEND

Through Road  
744 points  
HORIZONTAL FOOTCANDLES  
Average 1.0  
Maximum 7.2  
Minimum 0.5  
Avg:Min 2.00  
Max:Min 14.40  
Coef Var 0.63

Parking Lots  
1072 points  
HORIZONTAL FOOTCANDLES  
Average 1.1  
Maximum 8.1  
Minimum 0.3  
Avg:Min 3.61  
Max:Min 29.00  
Coef Var 0.62

Pathways  
586 points  
HORIZONTAL FOOTCANDLES  
Average 1.8  
Maximum 21.0  
Minimum 0.3  
Avg:Min 5.93  
Max:Min 70.00  
Coef Var 1.70

Pickleball Light  
candela file 'GALN-SA8D-730-U-5WQ-GRSHW\_48265 lumens.ies'  
42 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 493  
mounting height= 25 ft  
number locations= 60, number luminaires= 60  
kw all locations= 1.7

Playground Light  
candela file 'ICM-E04-LED-E1-T4-7030.ies'

84 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 97  
mounting height= 15 ft  
number locations= 4, number luminaires= 4  
kw all locations= 0.4

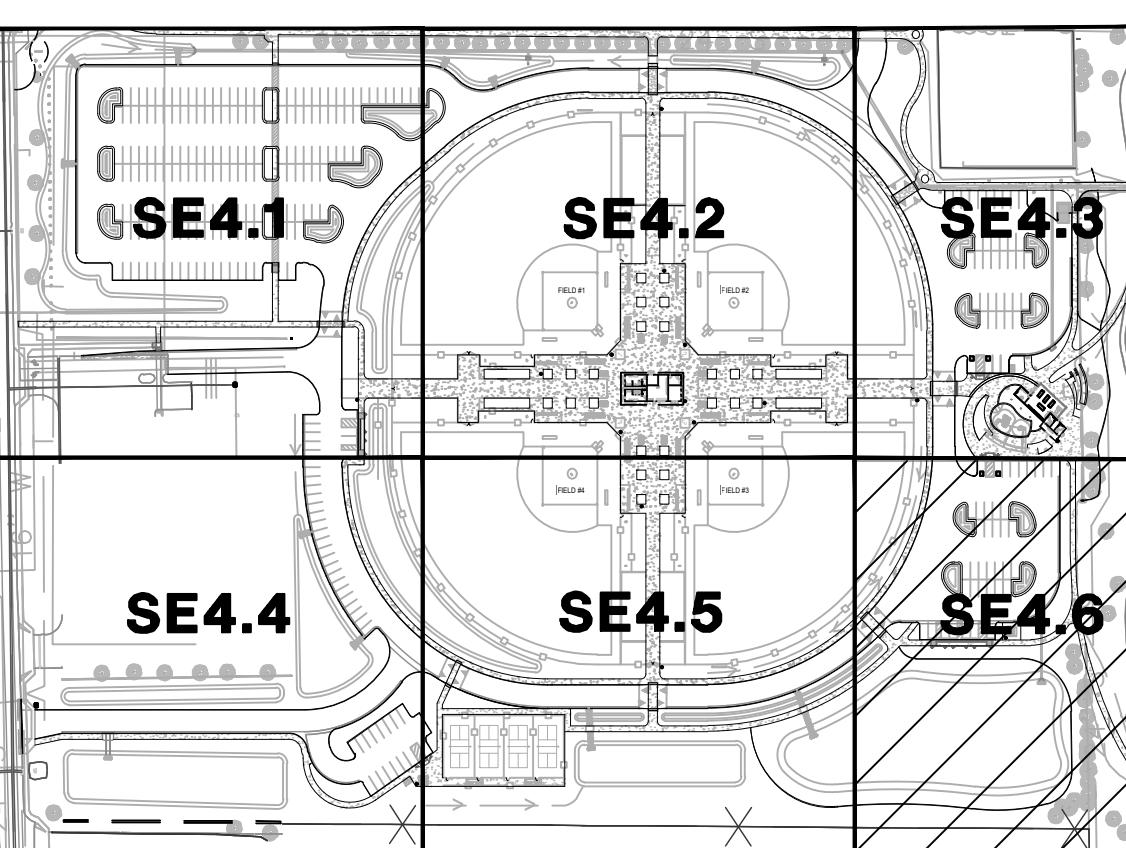
### PHOTOMETRIC RESULTS

Type 5 Parking Light  
candela file 'ICM-E02-LED-E1-5WQ-7030.ies'  
42 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 52  
mounting height= 25 ft  
number locations= 32, number luminaires= 32  
kw all locations= 1.7

Type 3 Roadway Light  
candela file 'ICM-E02-LED-E1-T3-7030.ies'  
42 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 52  
mounting height= 25 ft  
number locations= 60, number luminaires= 60  
kw all locations= 3.1

Pickleball Light  
candela file 'GALN-SA8D-730-U-5WQ-GRSHW\_48265 lumens.ies'  
128 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 493  
mounting height= 25 ft  
number locations= 10, number luminaires= 10  
kw all locations= 4.9

Playground Light  
candela file 'ICM-E04-LED-E1-T4-7030.ies'  
84 lamp(s) per luminaire, photometry is absolute  
Light Loss Factor = 0.910, watts per luminaire = 97  
mounting height= 15 ft  
number locations= 4, number luminaires= 4  
kw all locations= 0.4



0 10 20 40  
1 INCH = 20 FEET  
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Wright Project # 21127

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	MONTEREY PARK EXPANSION	
PHOTOMETRIC ANALYSIS		DRAWING SE4.6
F165 AC _____ PROJ. NO. _____		CATALOG NUMBER: 97 OF 108