

GENERAL LIGHTING NOTES

- A. LUMINAIRE TYPE 'SA1', 'SA2', 'SA3', 'SA4', 'SA5', 'SB1', 'SB2' AND 'SB3' HAVE AN OVERALL MOUNTING HEIGHT OF 15'-0"
- B. LUMINAIRE TYPES 'SC1' AND 'SC2' HAVE AN OVERALL MOUNTING HEIGHT OF 12'-0"
- C. LUMINAIRE TYPE 'SP1', 'SP2', 'SP3', 'SP4' AND 'SP5' HAVE AN OVERALL MOUNTING HEIGHT OF 20'-0"
- D. LUMINAIRE TYPE 'SD' ARE RECESSED INTO BUILDING CANOPIES.
- E. LUMINAIRE TYPE 'SF1' AND 'SF2' IS BUILDING MOUNTED AT 9'-0" ABOVE FINISHED GRADE.
- F. LUMINAIRE TYPE 'SH' AND 'SJ' WALL MOUNTED AT 7'-0" ABOVE FINISHED GRADE.
- G. PHOTOMETRIC CALCULATIONS ARE AT GRADE LEVEL.
- H. PHOTOMETRIC CALCULATIONS ARE EXPECTED AVERAGE MAINTAINED ILLUMINATION AT GRADE DURING NORMAL RATED LIFE OF THE LIGHT SOURCE.
- I. LLF OF 0.90.

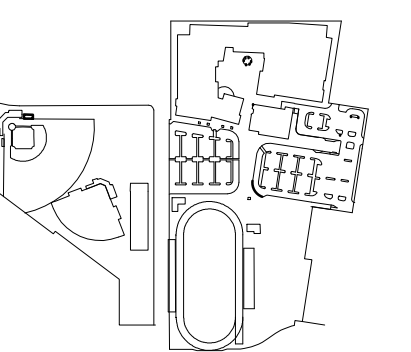
Calculation Scenario	Light Type	Units	Foot	Meter	Foot	Meter	Foot/Meter	Foot/Meter
Footcandle	Footcandle	fc	1.0	1.0	1.0	1.0	1.0	1.0
Footcandle	Footcandle	fc	1.0	1.0	1.0	1.0	1.0	1.0
Footcandle	Footcandle	fc	1.0	1.0	1.0	1.0	1.0	1.0
Footcandle	Footcandle	fc	1.0	1.0	1.0	1.0	1.0	1.0



1 SITE LIGHTING - SECTOR 2 - PHOTOMETRICS
 SCALE: 1"=20'-0"

2/3/2023 4:31:20 PM Autodesk Docs/21016 Beaverton HS Ph 221016_BHS_BLDG_MEPT_V22.rvt

BEAVERTON HIGH SCHOOL
REBUILD
 13000 SW 2ND STREET, BEAVERTON OR 97005
 BEAVERTON SCHOOL DISTRICT
 T. 503-356-4600

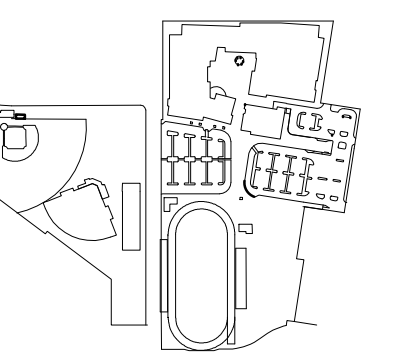


date	revisions
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016
SITE LIGHTING - SECTOR 2 PHOTOMETRICS	

**BEAVERTON HIGH SCHOOL
REBUILD**

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date	revisions
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016
SITE LIGHTING - SECTOR 3 PHOTOMETRICS	

EPH1.03

GENERAL LIGHTING NOTES

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- B. LUMINAIRE TYPES 'SC1' AND 'SC2' HAVE AN OVERALL MOUNTING HEIGHT OF 12'-0" .
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- E. LUMINAIRE TYPE 'SF1' AND 'SF2' IS BUILDING MOUNTED AT 9'-0" ABOVE FINISHED GRADE.
- F. LUMINAIRE TYPE 'SH' AND 'SJ' WALL MOUNTED AT 7'-0" ABOVE FINISHED GRADE.
- G. PHOTOMETRIC CALCULATIONS ARE AT GRADE LEVEL.
- H. PHOTOMETRIC CALCULATIONS ARE EXPECTED AVERAGE MAINTAINED ILLUMINATION AT GRADE DURING NORMAL RATED LIFE OF THE LIGHT SOURCE.
- I. LFF OF 0.90.

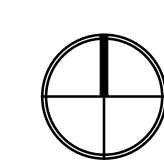
Label	Calculation	Unit	Area	Area	Area	Area	Area	Area
Footcandle	Footcandle	Ft	1.18	1.21	1.11	1.18	1.21	1.11
Footcandle	Footcandle	Ft	1.18	1.21	1.11	1.18	1.21	1.11
Footcandle	Footcandle	Ft	1.18	1.21	1.11	1.18	1.21	1.11
Footcandle	Footcandle	Ft	1.18	1.21	1.11	1.18	1.21	1.11

SW 2ND STREET

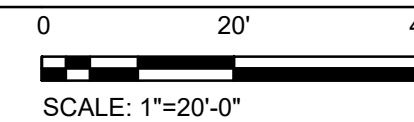
SEE SPORTS LIGHTING PACKAGE

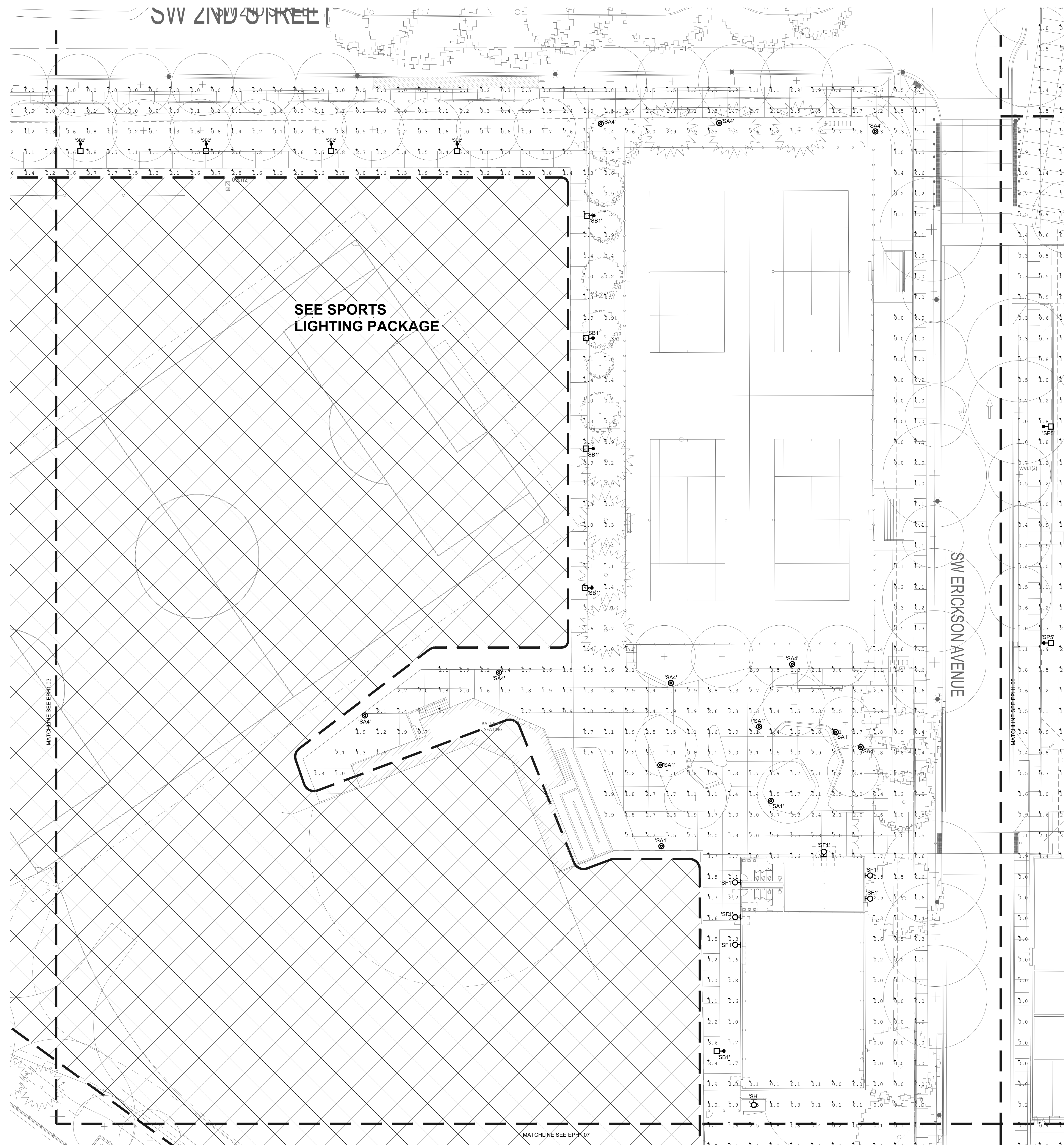
MATCHLINE SEE EPH1.04

MATCHLINE SEE EPH1.07



1 SITE LIGHTING - SECTOR 3 - PHOTOMETRICS





GENERAL LIGHTING NOTES

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Location	Code	Type	Units	Age	Size	Watt	Height	Watt/ft²
SA1	SA1	Recessed	12	1.25	27	170	15	1.00
SA4	SA4	Recessed	12	1.25	27	170	15	1.00
SB1	SB1	Recessed	12	1.25	27	170	15	1.00
SF1	SF1	Recessed	12	1.25	27	170	15	1.00
SH	SH	Recessed	12	1.25	27	170	15	1.00
SJ	SJ	Recessed	12	1.25	27	170	15	1.00

SEE SPORTS LIGHTING PACKAGE

SW ERICKSON AVENUE

MATCHLINE SEE EPH1.03

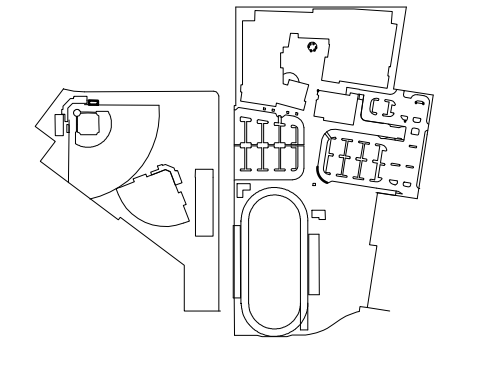
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MATCHLINE SEE EPH1.07



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date	revisions

phase LAND USE RESUBMITTAL SET
 date 08/11/2023
 project 21016
 SITE LIGHTING - SECTOR 4
 PHOTOMETRICS

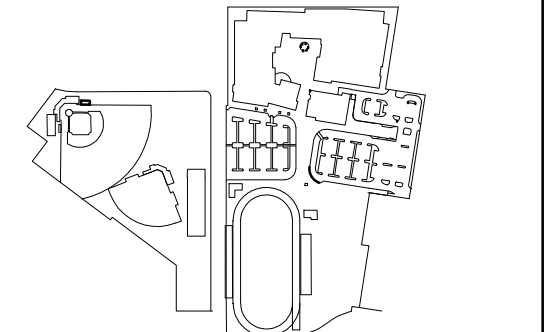
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GENERAL LIGHTING NOTES

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- H. PHOTOMETRIC CALCULATIONS ARE EXPECTED AVERAGE MAINTAINED ILLUMINATION AT GRADE DURING NORMAL RATED LIFE OF THE LIGHT SOURCE.
- I. LLF OF 0.90.

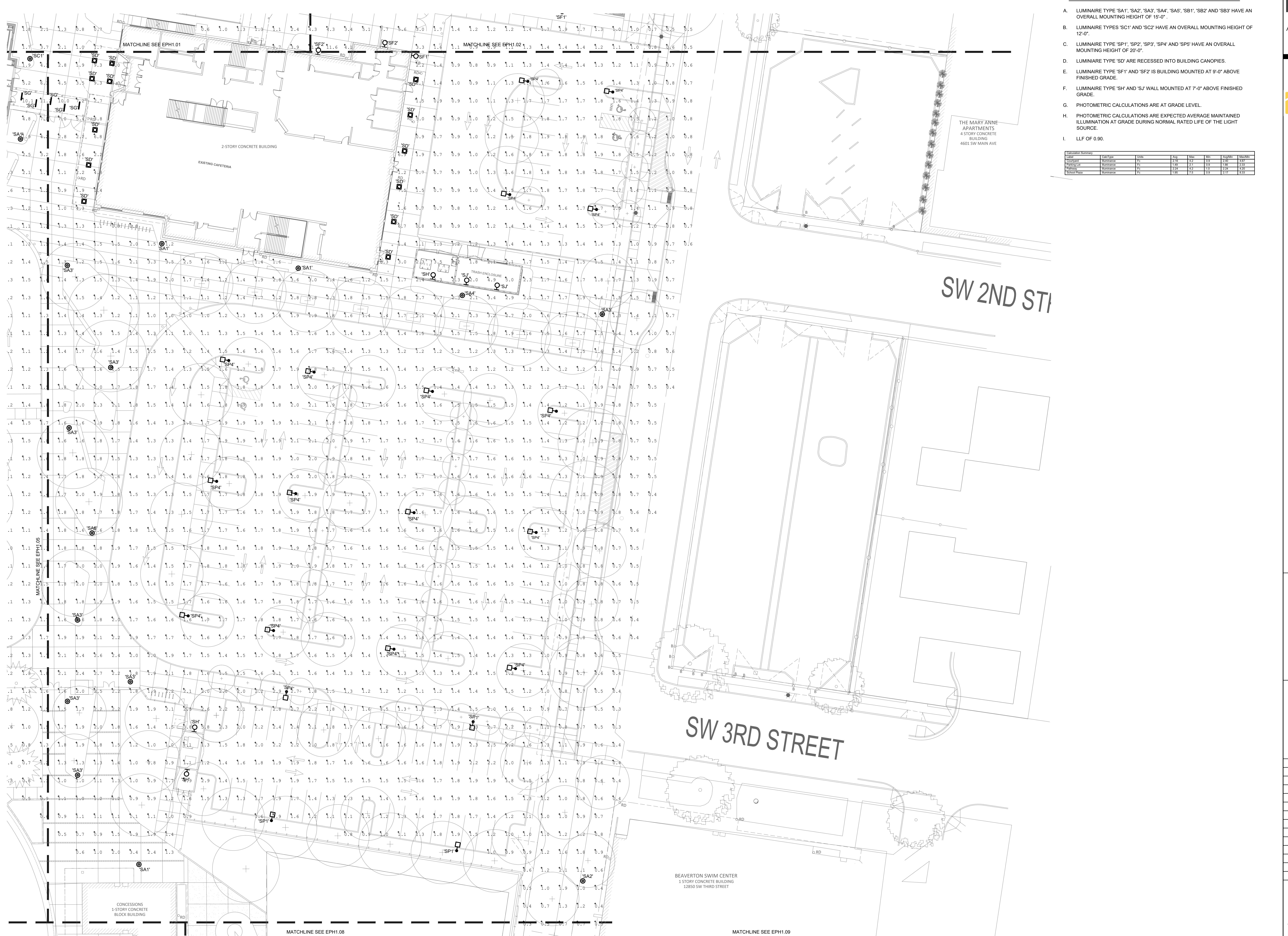
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Control	Footcandle	fc	2.18	4.28	0.99	2.26	4.29
Footcandle	Lumen/ft²	lm/ft²	2.18	4.28	0.99	2.26	4.29
Illuminance	Footcandle	fc	1.84	3.51	0.78	1.88	3.52
Footcandle	Lumen/ft²	lm/ft²	1.84	3.51	0.78	1.88	3.52



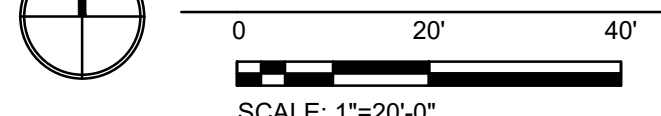
date	revisions

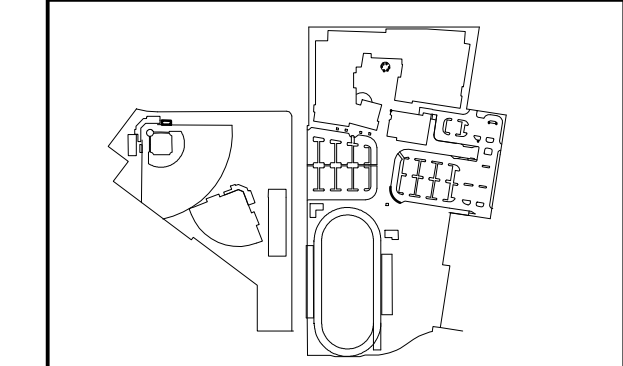
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016
SITE LIGHTING - SECTOR 6	
PHOTOMETRICS	

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1 SITE LIGHTING - SECTOR 6 - PHOTOMETRICS





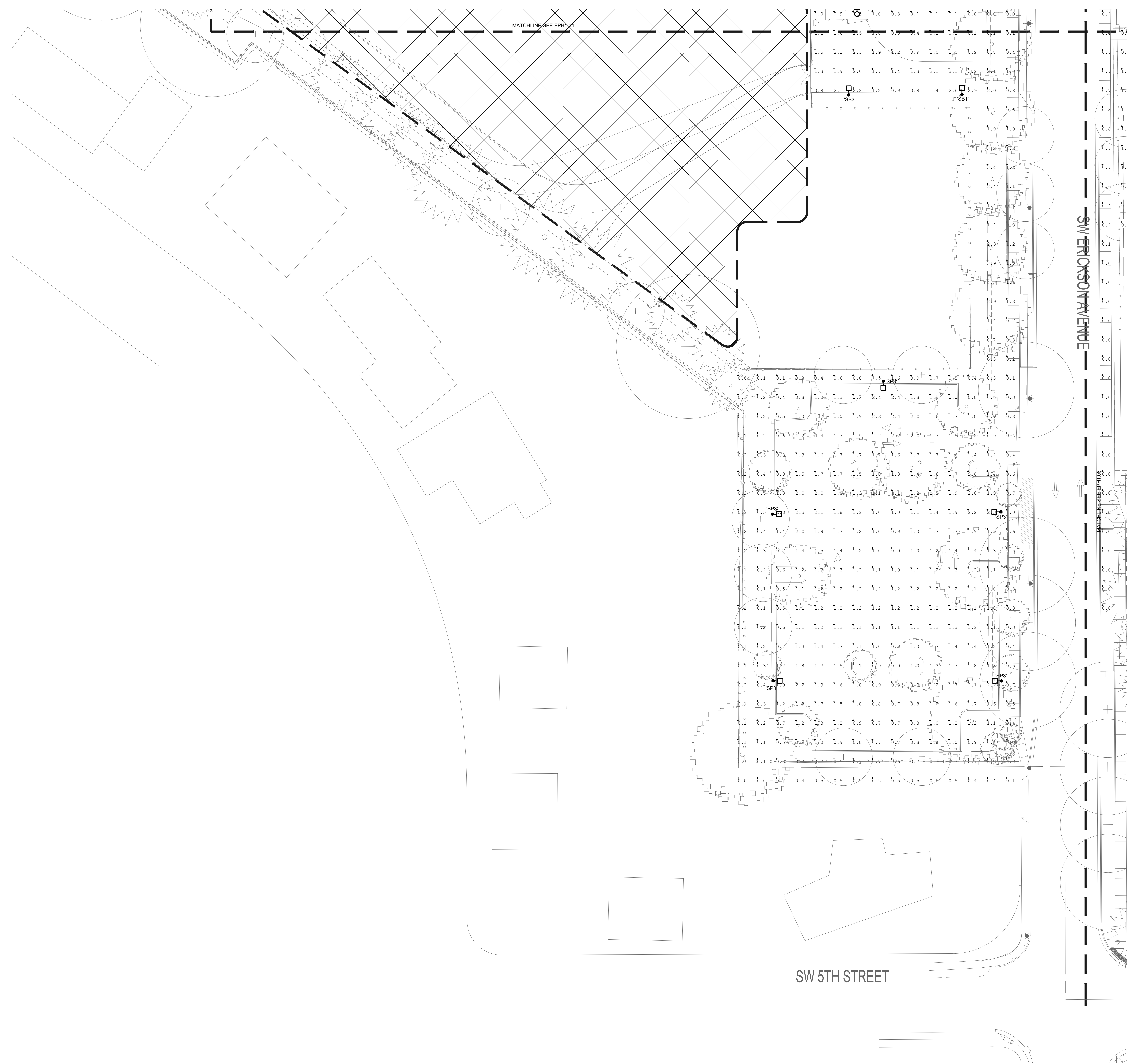
date	revisions

phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016
SITE LIGHTING - SECTOR 7 PHOTOMETRICS	

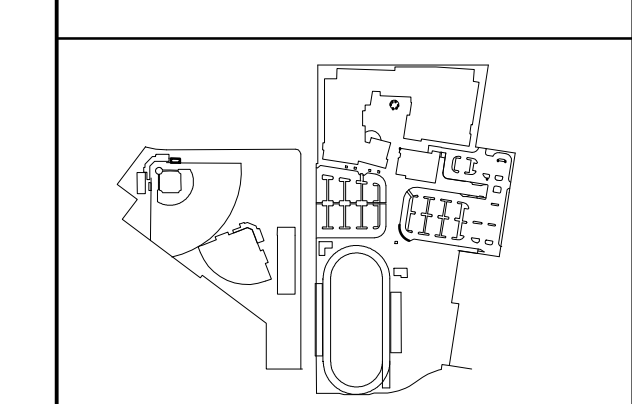
GENERAL LIGHTING NOTES

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- I. LLF OF 0.90.

Calculation Summary	Footcandle	Units	Foot	Max	Min	Footcandle	Minimum
Overall	1.0	fc	2.20	1.20	1.50	2.00	1.00
Footcandle	1.0	fc	1.50	1.0	1.0	1.5	1.0
Footcandle	1.0	fc	1.50	1.0	1.0	1.5	1.0
Footcandle	1.0	fc	1.50	1.0	1.0	1.5	1.0



1 SITE LIGHTING - SECTOR 7 - PHOTOMETRICS
SCALE: 1"=20'-0"



date	revisions

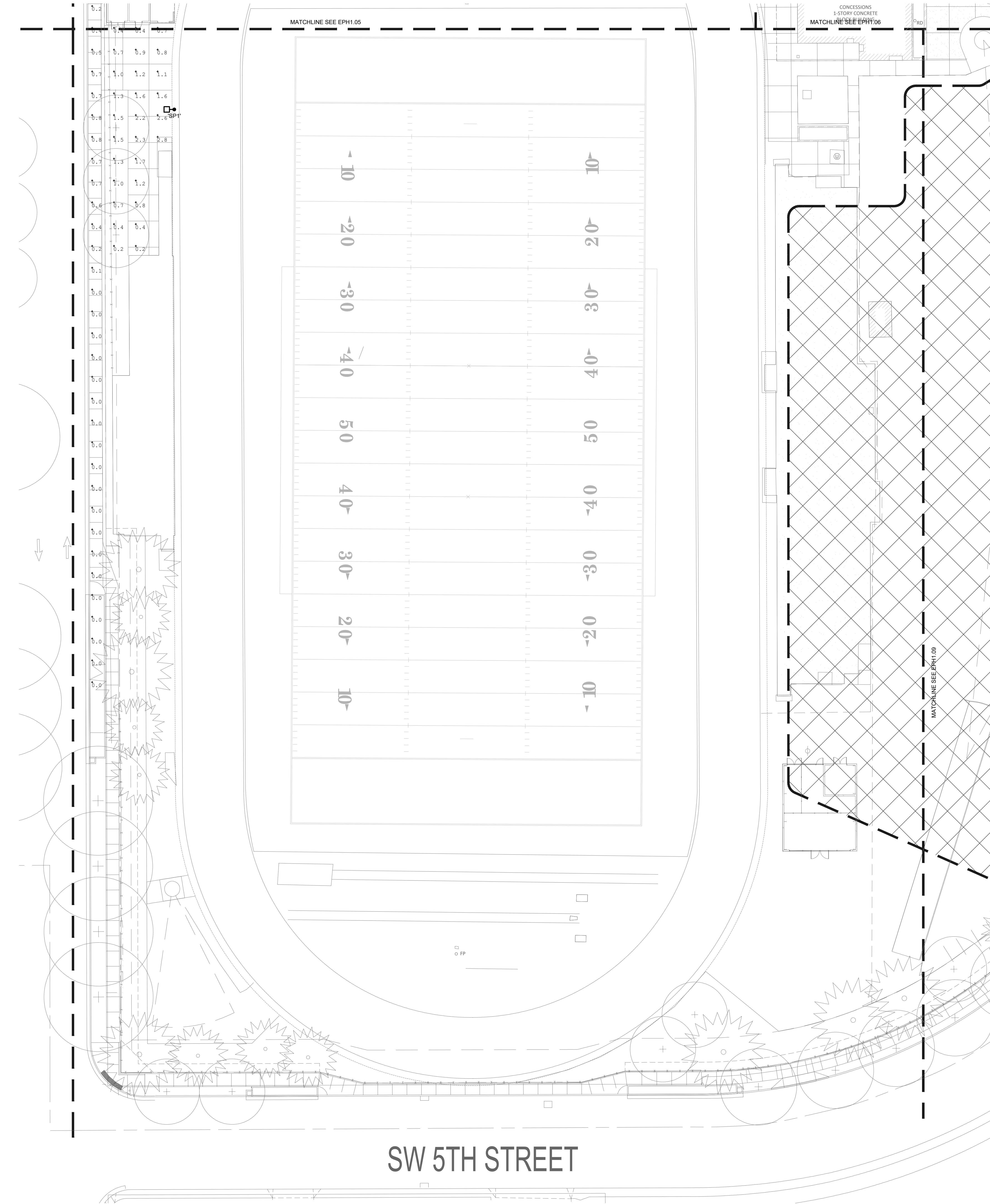
phase LAND USE RESUBMITTAL
SET
date 08/11/2023
project 21016
SITE LIGHTING - SECTOR 8
PHOTOMETRICS

EPH1.08

GENERAL LIGHTING NOTES

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Calculation Summary	FootCandle	FootCandle	FootCandle	FootCandle	FootCandle	FootCandle	FootCandle
Overall	Minimum	55	2.38	43	3.59	27.6	2.50
Minimum	Minimum	45	1.90	37	3.09	23.6	2.15
Maximum	Maximum	65	2.78	52	4.38	33.6	3.05
FootCandle	Minimum	45	1.90	37	3.09	23.6	2.15
FootCandle	Maximum	65	2.78	52	4.38	33.6	3.05



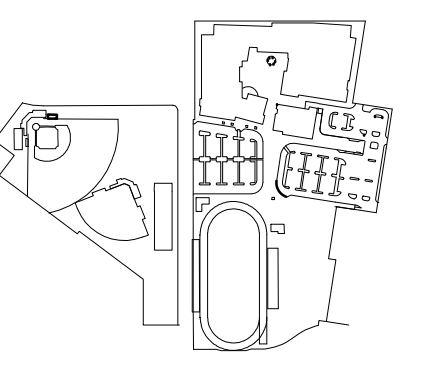
SW 5TH STREET

1 SITE LIGHTING - SECTOR 8 - PHOTOMETRICS

0 20' 40'

SCALE: 1"=20'-0"

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date	revisions

phase LAND USE RESUBMITTAL
SET
date 08/11/2023
project 21016
SITE LIGHTING - SECTOR 9
PHOTOMETRICS

GENERAL LIGHTING NOTES

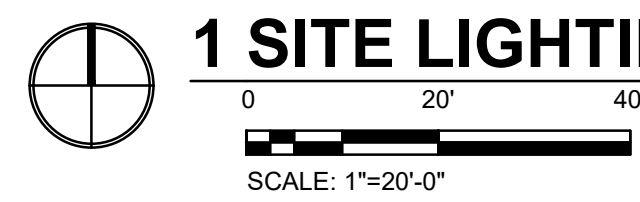
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- I. LFLF OF 0.90.

Calculation Boundary	CalcType	Units	Avg	Max	Min	Footcandle	Footcandle
Classroom	Horizontal	FC	2.36	8.7	0.9	1.28	4.97
Classroom	Vertical	FC	2.36	8.7	0.9	1.68	2.33
Hallway	Horizontal	FC	3.84	8.7	0.9	1.24	4.22
Hallway	Vertical	FC	3.84	8.7	0.9	1.17	4.33

SEE SPORTS
LIGHTING PACKAGE

SW 4TH

1 SITE LIGHTING - SECTOR 9 - PHOTOMETRICS



SPORTS FIELD LUMINAIRE SCHEDULE (BASIS OF DESIGN: MUSCO)

POLE ID	POLE HEIGHT	MTG HEIGHT	FIXTURE QTY	LUMINAIRE TYPE	LOAD (KW)	CIRCUIT	NOTES
A1-A2	70'	70'	1	TLC-LED-1200	1.17	A	
		70'	3	TLC-LED-900	2.64	A	
		25'	1	TLC-BT-575	0.58	A	
A3	60'	60'	1	TLC-LED-1200	1.17	B	
		60'	2	TLC-LED-1500	1.76	B	
		16'	1	TLC-BT-575	0.58	B	
B1	80'	80'	1	TLC-LED-1200	1.17	A	
		80'	4	TLC-LED-1500	5.64	A	
		80'	5	TLC-LED-900	4.4	A	
		25'	2	TLC-BT-575	1.15	A	
B2	80'	80'	1	TLC-LED-1200	1.17	A	
		80'	2	TLC-LED-1500	2.82	A	
		80'	5	TLC-LED-900	4.4	A	
		25'	2	TLC-BT-575	1.15	A	
B3	60'	60'	4	TLC-LED-900	3.52	B	
		16'	1	TLC-BT-575	0.58	B	
B4	70'	70'	1	TLC-LED-1200	1.17	B	
		70'	3	TLC-LED-1500	4.23	A	
		70'	3	TLC-LED-900	2.64	B	
		70'	1	TLC-LED-900	0.88	A	
		25'	1	TLC-BT-575	0.58	B	
		25'	2	TLC-BT-575	1.15	A	
C3	60'	60'	1	TLC-LED-1200	1.17	B	
		60'	2	TLC-LED-900	1.76	B	
		25'	2	TLC-BT-575	1.15	B	
CA4	70'	70'	1	TLC-LED-1200	1.17	B	
		70'	4	TLC-LED-1500	5.64	A	
		70'	1	TLC-LED-900	0.88	A	
		70'	2	TLC-LED-900	1.76	B	
		16'	1	TLC-BT-575	0.58	B	
		16'	2	TLC-BT-575	1.15	A	
F1	70'	70'	4	TLC-LED-1200	4.68	C	
		25'	2	TLC-BT-575	1.15	C	
F2, F4	70'	70'	1	TLC-LED-1200	1.17	C	
		70'	3	TLC-LED-900	2.64	C	
		25'	2	TLC-BT-575	1.15	C	
F3	70'	70'	3	TLC-LED-1200	3.51	C	
		70'	1	TLC-LED-900	0.88	C	
		25'	2	TLC-BT-575	1.15	C	
P1-P2	50'	50'	2	TLC-LED-900	1.76	A	
T1-T2, T5-T6	50'	50'	1	TLC-LED-500	0.54	D	
		50'	1	TLC-LED-900	0.88	D	
T3-T4	50'	50'	4	TLC-LED-900	2.16	D	
15			94		87.22		

NOTES:
 1 THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.
 2 SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
 3 PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND BALLAST INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.

CALCULATION GRID SUMMARY

GRID NAME	CALCULATION METRIC	ILLUMINATION				CIRCUITS	FIXTURE QTY
		AVE	MIN	MAX	MIN/MAX		
BASEBALL (INFIELD)	HORIZONTAL ILLUMINANCE	50.5	39	61	1.57	A	47
BASEBALL (OUTFIELD)	HORIZONTAL ILLUMINANCE	34.8	21	50	2.37	A	47
SOCCER	HORIZONTAL ILLUMINANCE	34.1	19	47	2.45	A	47
SOFTBALL (INFIELD)	HORIZONTAL ILLUMINANCE	51.1	41	63	1.53	B	23
SOFTBALL (OUTFIELD)	HORIZONTAL ILLUMINANCE	31.1	19	43	2.34	B	23

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

- (E) EXISTING
- (ER) EXISTING-RELOCATED
- (N) NEW
- (R) RELOCATE
- PH PHASE
- (X) DEMOLISH

General

- DEMOLISH
- EXISTING WORK
- NEW WORK
- KEYED NOTE
- DETAIL NUMBER AND SHEET LOCATION

Connections / Equipment

- JUNCTION BOX
- UTILITY METER BASE
- TRANSFORMER

Lighting

- SPORTS FIELD LIGHTING

Miscellaneous

- BRANCH PANEL
- BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES 'ISOLATED GROUND' (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.

Raceways

- CONDUIT CONCEALED IN WALL OR CEILING SPACE
- CONDUIT ROUTED BELOW FLOOR / GRADE
- HANDHOLE
- CONDUIT ELLED DOWN
- CONDUIT ELLED UP
- CONDUIT/WIRING CONTINUATION
- CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING

CIRCUIT SUMMARY

CIRCUIT	DESCRIPTION	LOAD (Kw)	FIXTURE QTY
A	BASEBALL	46.07	47
B	SOFTBALL	19.57	23
C	PRACTICE FOOTBALL	21.29	24
D	TENNIS 1-4	10	16

FIXTURE TYPE SUMMARY

TYPE	SOURCE	WATTAGE	LUMENS	L90	L80	L70	QUANTITY
TLC-LED-1200	LED 5700K - 75 CRI	1170	150,000	> 120,000	> 120,000	> 120,000	16
TLC-LED-1500	LED 5700K - 75 CRI	1410	181,000	> 120,000	> 120,000	> 120,000	13
TLC-LED-900	LED 5700K - 75 CRI	880	104,000	> 120,000	> 120,000	> 120,000	45
TLC-LED-550	LED 5700K - 75 CRI	540	67,000	> 120,000	> 120,000	> 120,000	12
TLC-BT-575	LED 5700K - 75 CRI	575	52,000	> 120,000	> 120,000	> 120,000	24

SINGLE LUMINAIRE AMPERAGE DRAW CHART

DRIVER (.90 MIN POWER FACTOR)	MAX LINE AMERAGE PER LUMINAIRE						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
SINGLE PHASE VOLTAGE							
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	--	1.4
TLCBT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5

SHEET INDEX

- EF0.01 SYMBOLS LIST AND SCHEDULES - ELECTRICAL
- EF1.01 SOCCER OVERLAY, BASEBALL / SOFTBALL FIELD LIGHTING PLAN
- EF1.02 FIELD / PRACTICE FIELD LIGHTING PLAN
- EF1.11 PROJECT SUMMARY & ILLUMINATION SUMMARY
- EF1.12 ILLUMINATION SUMMARY
- EF1.13 ILLUMINATION SUMMARY
- EF1.14 ILLUMINATION SUMMARY & EQUIPMENT LAYOUT
- EF2.01 ONE-LINE DIAGRAM & PANEL SCHEDULES

date revisions

phase LAND USE RESUBMITTAL SET
date 08/11/2023
project 21016
SYMBOL LIST AND GENERAL NOTES - ELECTRICAL

EF0.01

GENERAL SHEET NOTES

- A. SPORTS LIGHT POLE LOCATION TO BE FIELD MARKED BY SPORTS LIGHT REP AND REVIEWED BY ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.

INTERFACE
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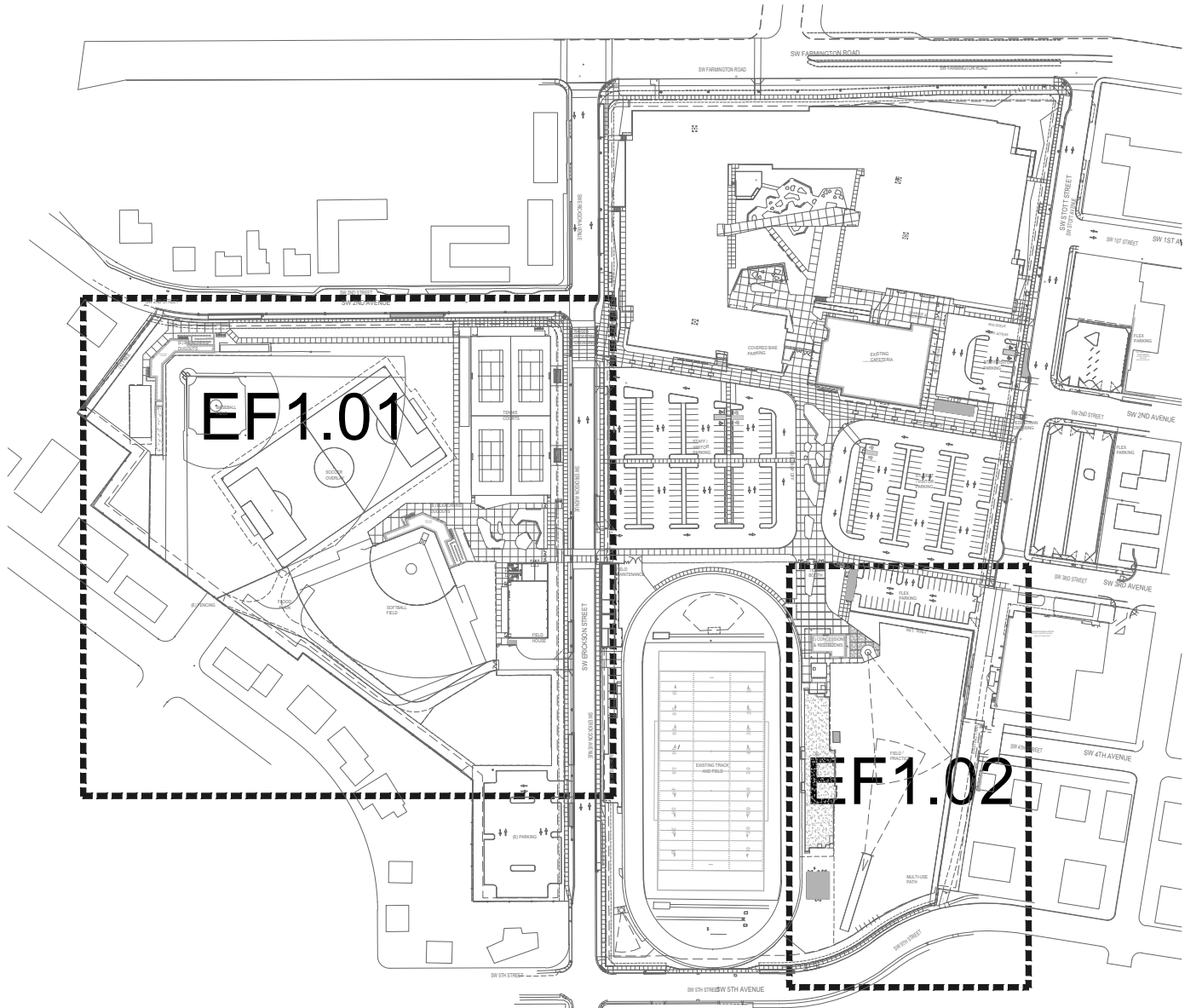
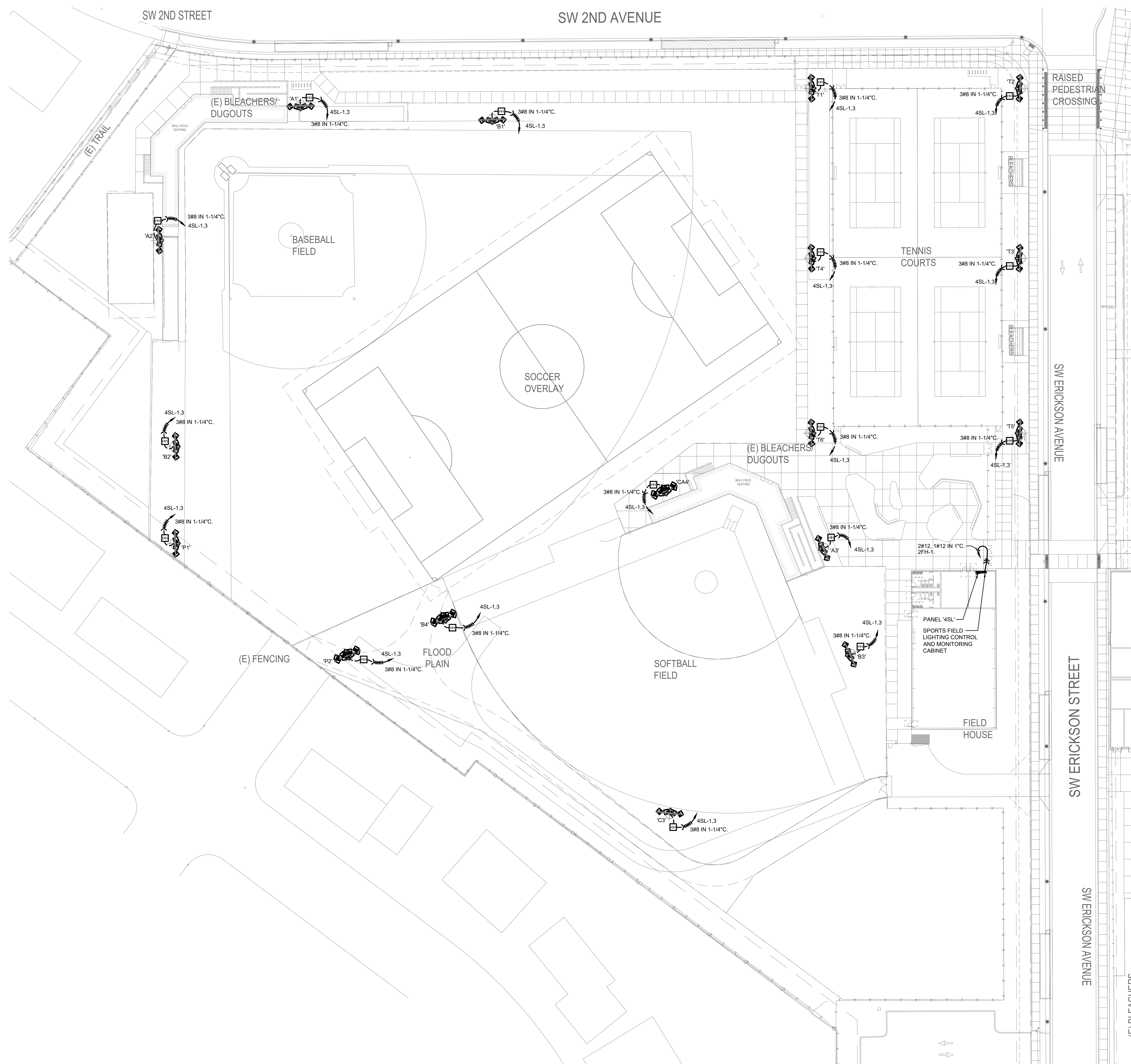
**BEAVERTON HIGH SCHOOL
REBUILD**

13000 SW 2ND STREET, BEAVERTON OR 97005
BEAVERTON SCHOOL DISTRICT



date	revisions
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016
SOCCER OVERLAY BASEBALL / SOFTBALL FIELD LIGHTING PLAN	

EF1.01



KEYPLAN

1 SOCCER OVERLAY, BASEBALL / SOFTBALL FIELD LIGHTING PLAN
SCALE: 1"=30'-0"

BEAVERTON HIGH SCHOOL
REBUILD

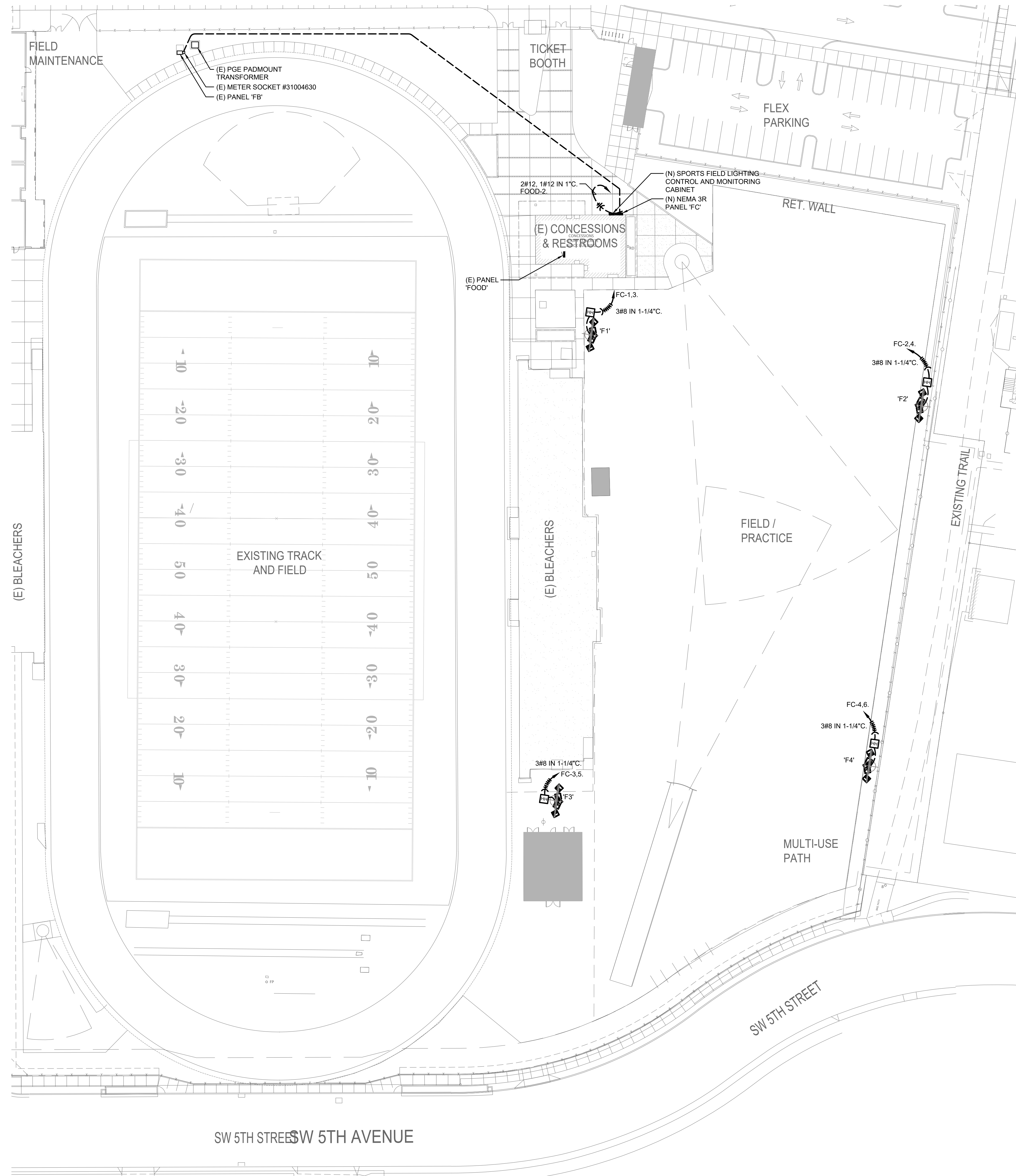
13000 SW 2ND STREET, BEAVERTON OR 97005
BEAVERTON SCHOOL DISTRICT



date	revisions

phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016
FIELD / PRACTICE	
FIELD LIGHTING PLAN	

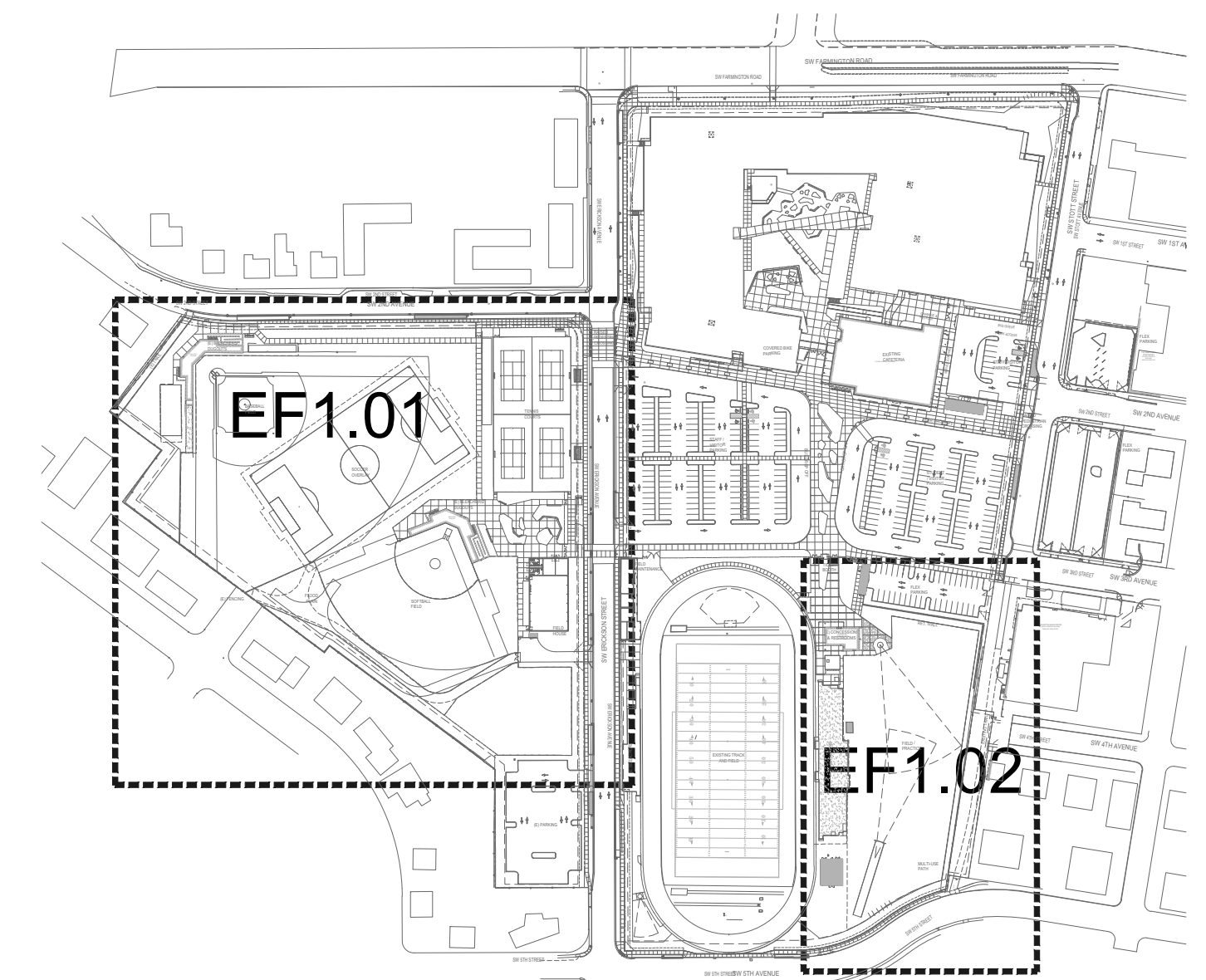
EF1.02



1 FIELD / PRACTICE FIELD LIGHTING PLAN

0 30' 60'

SCALE: 1"=30'-0"

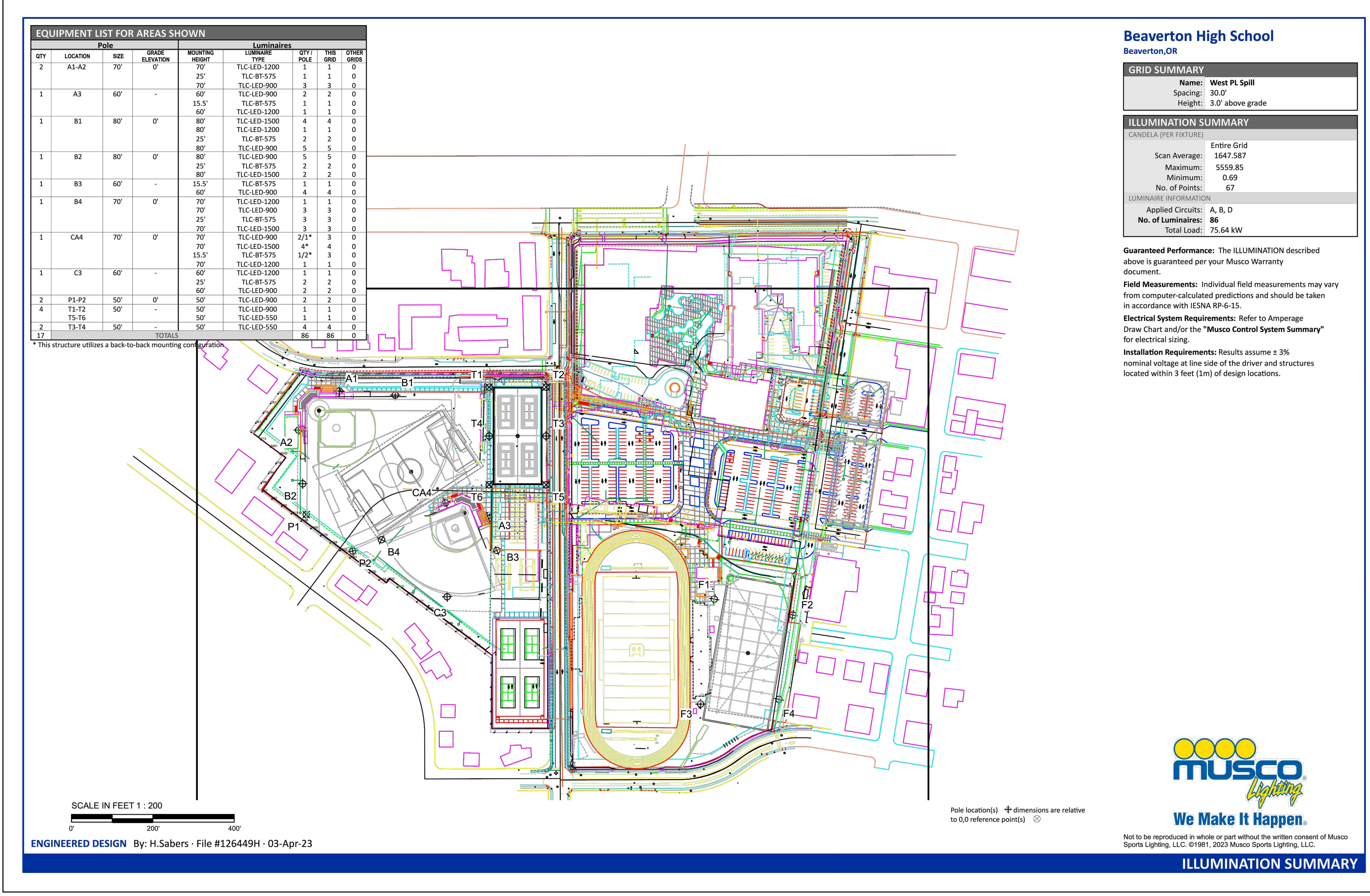
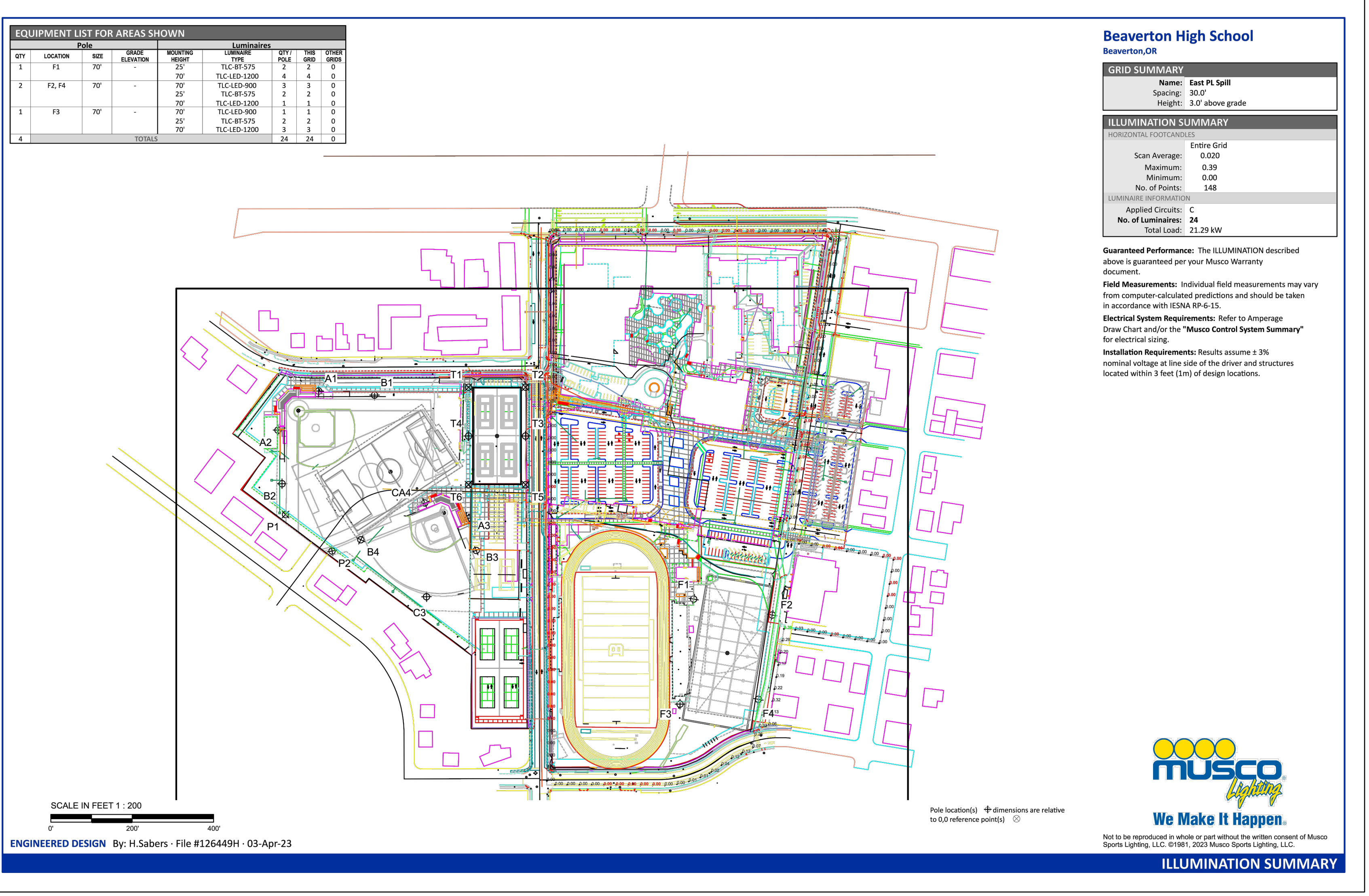
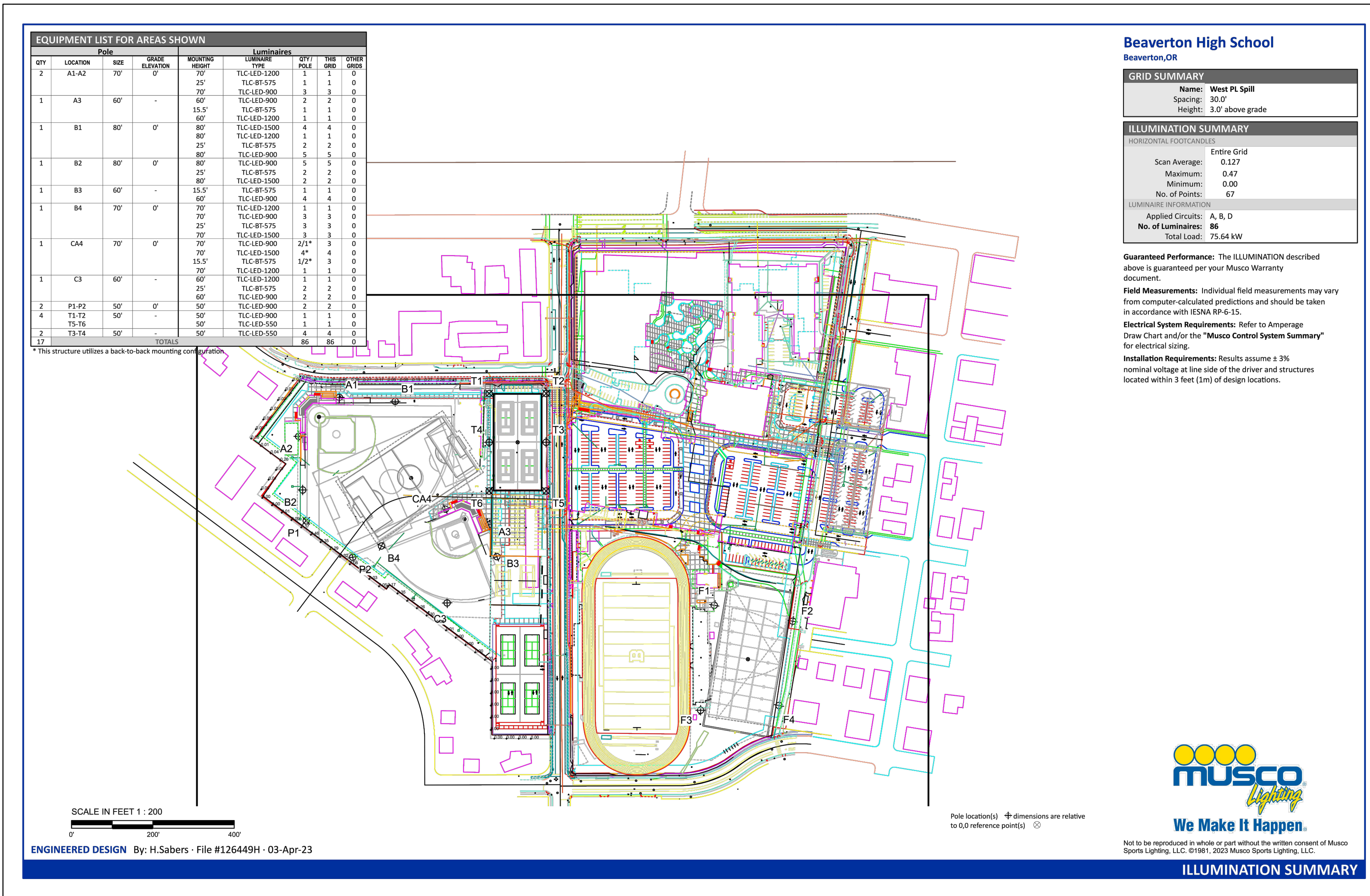
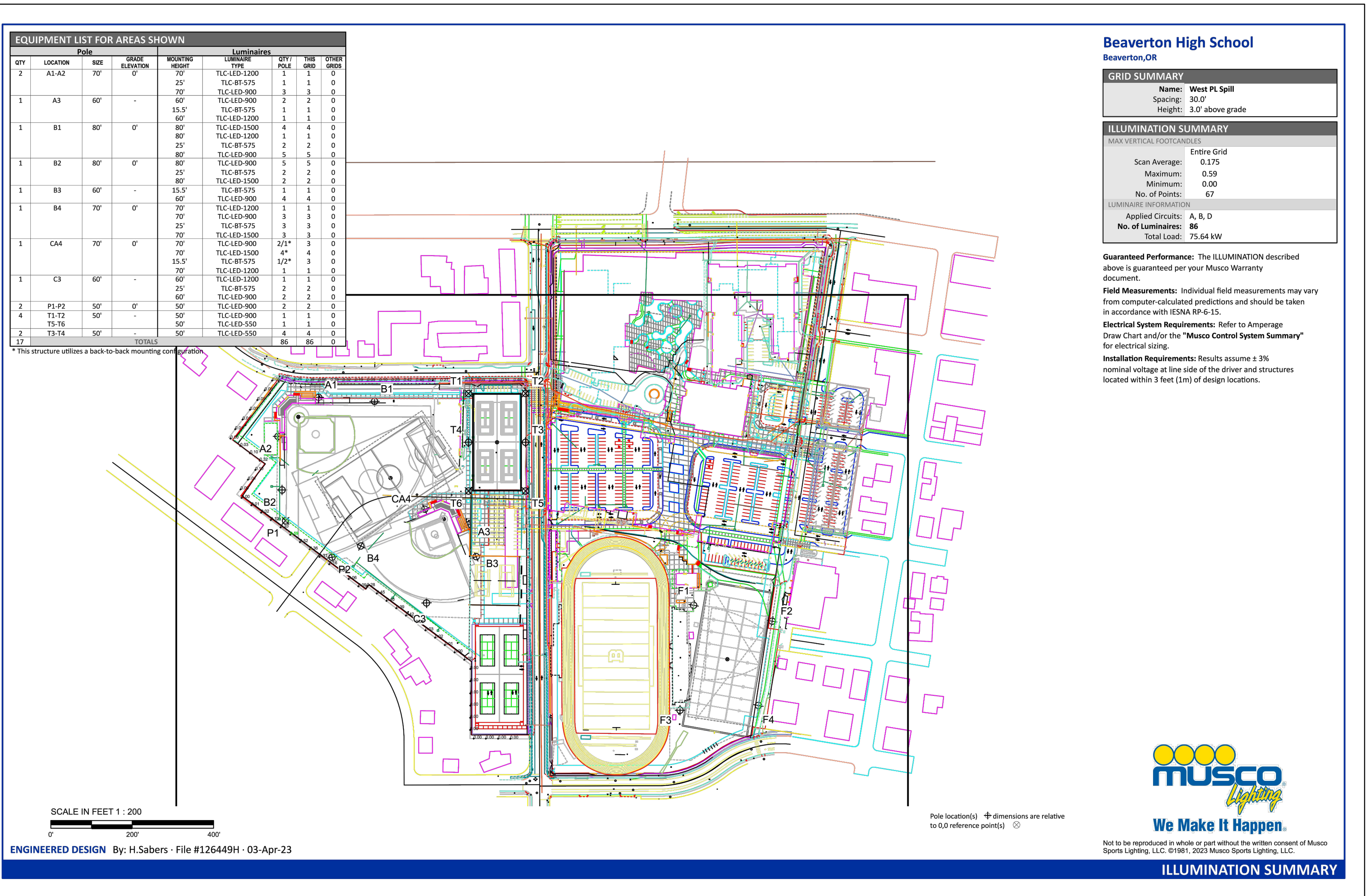


KEYPLAN



date	revisions

phase	LAND USE SUBMITTAL SET
date	08/11/2023
project	21016
ILLUMINATION SUMMARY	ILLUMINATION SUMMARY



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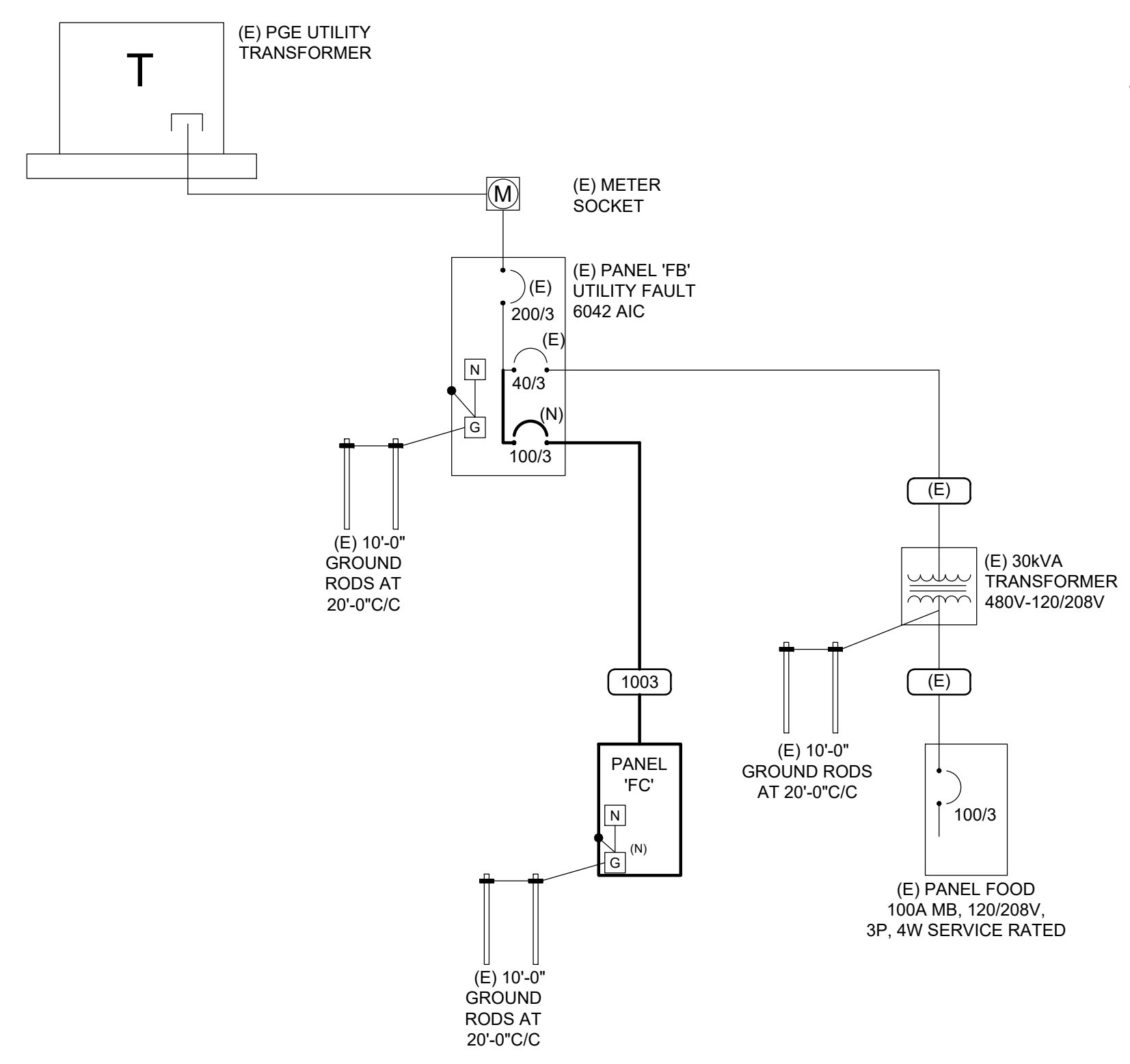
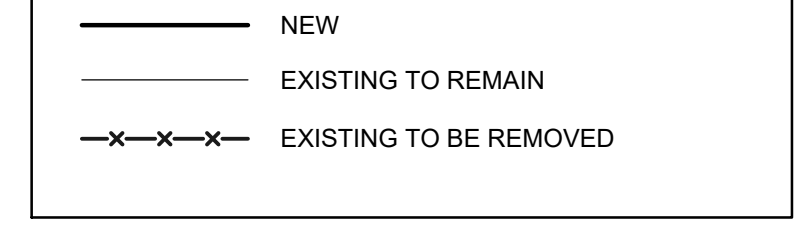
FEEDER SCHEDULE

Key

A, C, S, X A = Aluminum C = Conduit only S = Service secondary X = Separately derived system

1003 3 #2 CU, 1 #6 CU GND., IN 1-1/4" C.

LINE TYPE LEGEND



1 FIELD / PRACTICE FIELD ONE-LINE DIAGRAM NO SCALE

Table for (N) Panel '4SL' showing circuit details, loads, and demand calculations.

Table for (E) Panel 'FB' showing circuit details, loads, and demand calculations.

Table for (E) Panel 'FOOD' showing circuit details, loads, and demand calculations.

Table for (N) Panel 'FC' showing circuit details, loads, and demand calculations.

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Table for revisions and project information including date, phase, and one-line diagram details.

EF2.01

STREET LIGHTING DESIGN RESPONSIBILITIES

CONTRACTOR RESPONSIBILITIES:

- A. STREET LIGHTS ARE BASED ON "OPTION C", OPTION C IS FOR ENERGY ONLY FOR EQUIPMENT OWNED AND MAINTAINED BY THE CUSTOMER (CITY OF BEAVERON)
- B. SUPPLY THE POLES, BASES AND LUMINAIRES PER STREET LIGHT POLE SCHEDULE.
- C. INSTALL LIGHT POLES, BASES, LUMINAIRES. INSPECTOR TO BE DONE BY CITY OF BEAVERTON. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRENCH BACKFILL AND LANDSCAPE RESTORATION.
- D. INSTALL CIRCUIT TO ENERGIZE THE LIGHTS.
- E. CONTRACTOR IS RESPONSIBLE FROM THE PGE POWER SOURCE TO THE DESIGNATED POINT OF CONNECTION FOR ALL TRENCH EXCAVATION AND BACKFILLING, COMPACTION, ROAD CROSSINGS, CONDUITS, ELBOWS, VAULTS, JUNCTION BOXES, AND ASSOCIATED PERMITS.
- F. CONTRACTOR TO PROVIDE AND INSTALL A NON-METERED DISCONNECT NEAR PGE JUNCTION BOX WITH CONDUIT AND CIRCUITRY PLUMBED INTO PGE JUNCTION BOX. PGE TO MAKE ELECTRICAL CONNECTIONS IN PGE JUNCTION BOX. PANEL MUST BE INSPECTED AND APPROVED BY MUNICIPALITY PRIOR TO PGE ENERGIZING IT.
- G. TRENCHES ARE TO BE 48" DEEP WHEN SHARED WITH OTHER UTILITIES AND OTHERWISE AT LEAST 36" IN DEPTH.
- H. INSTALLATION ARE TO BE PER CITY OF BEAVERTON AND ODOT STANDARDS.
- M. PGE WORK ORDER #M3318867
CHUNG LAM
PGE OUTDOOR LIGHTING SERVICES
209 WARNER MILNE RD.
OREGON CITY, OR 97045
503-736-5785
chung.lam@pgn.com

GENERAL CONDUITS AND ELBOWS:



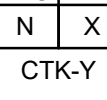



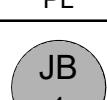
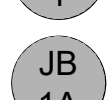
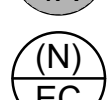
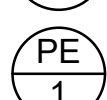
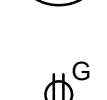

- A. ALL CONDUIT ROUTES MUST BE APPROVED BY CITY OF BEAVERTON PRIOR TO INSTALLATION BY THE CONTRACTOR, CONTRACTOR-INSTALLED CONDUIT MUST BE INSPECTED BY PGE BEFORE BACKFILL.
- B. ALL PGE CONDUCTORS ARE TO BE INSTALLED IN CONDUIT. THREE-INCH DIAMETER CONDUIT IS THE MINIMUM REQUIRED SIZE FOR ALL RUNS UNLESS OTHERWISE SPECIFIED BY PGE.
- C. ALL CONDUITS MUST BE GRAY ELECTRICAL GRADE SCHEDULE 40 PVC, FLEX CONDUIT IS NOT ALLOWED.
- D. 36" RADIUS ELBOWS ARE REQUIRED FOR ALL CONDUIT RUNS LONGER THAN 6'.

- E. SWEEPS MUST BE SEPARATED BY A MINIMUM 5-FOOT STRAIGHT SECTION. THERE MUST BE A 3-FOOT MINIMUM STRAIGHT SECTION FROM A VAULT.
- F. ALL ELBOW BENDS MUST BE FACTORY MADE AND ALL CONDUIT ELBOW ENDS SHALL BE SMOOTH AND FREE FROM BURRS AND ROUGH EDGES.
- G. ALL JUNCTION BOXES ARE TO BE PER ODOT'S TM DRAWING 472.
- H. IF THE POWER SOURCE IS AT A UTILITY POLE, THE TERMINAL ELBOW IS TO BE INSTALLED EIGHT INCHES FROM THE POLE, AND ATTACHED TO A PGE INSTALLED STANDOFF BRACKET, AT THE QUADRANT SPECIFIED BY PGE.
- I. WHEN A NEW CONDUIT AND/OR PULL LINE WILL BE ENTERING AN EXISTING PGE SECONDARY VAULT OR TRANSFORMER, THE INSTALLER IS REQUIRED TO CONTACT PGE PRIOR TO INSTALLATION. A PGE CREW WILL BE SCHEDULED TO MEET THE INSTALLER AT THE SITE TO ASSIST WITH THE INSTALLATION. **TO SCHEDULE A PGE STAND-BY CREW, PLEASE CALL PGE SERVICE COORDINATORS AT (503) 323-6700 OR TOLL-FREE (800) 542-8818.**
- M. **OREGON UTILITY ANTICIPATION CENTER AT (800) 332-2344, 811, OR ONLINE AT www.callbeforeyoudig.org. MUST BE CALLED TO LOCATE ANY UNDERGROUND FACILITIES AT LEAST TWO BUSINESS DAYS (48 HOURS) PRIOR TO ANY DIGGING.**
- N. THE CUSTOMER IS RESPONSIBLE FOR DUCT PROOFING ALL DUCTS INSTALLED FOR PGE JOBS BEFORE THE JOB IS COMPLETED AND BEFORE THE INSTALLATION OF PGE CONDUCTORS.
- O. MINIMUM OF 6 INCHES OF 3/4-INCH MINUS WELL-COMPACTED BACKFILL UNDER AND AROUND THE OUTSIDE OF THE JUNCTION BOX.
- P. CUSTOMER TO INSTALL A PGE-PROVIDED GROUND ROD INSIDE THE JUNCTION BOX. A MAXIMUM OF 3 INCHES OF GROUND ROD MUST BE SHOWING INSIDE THE JUNCTION BOX.
- Q. JUNCTION BOX MUST BE SET 2 INCHES ABOVE FINAL GRADE OR ON THE HIGH SIDE OF THE SLOPE. JUNCTION BOXES SET ON A SIDEWALK MUST BE SET TO GRADE.
- R. A MINIMUM OF 12" WORKING CLEARANCE SPACE IS TO BE PROVIDED BETWEEN THE TOP OF ELBOWS AND THE JUNCTION BOX LID TO ALLOW BENDING WIRE WITHOUT DAMAGE TO THE WIRE.
- S. THE ELBOWS ARE TO BE CLUSTERED AT ONE END OF THE JUNCTION BOX.

GENERAL SHEET NOTES

- A. ALL MATERIAL AND WORKMANSHIP FOR STREET LIGHTS SHALL CONFORM TO CITY OF BEAVERTON ENGINEERING DESIGN MANUAL, THE 2021 OREGON STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, AND THE SPECIAL PROVISIONS.
- B. ALL ELECTRICAL EQUIPMENT SHALL CONFORM TO THE CURRENT STANDARDS OF THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) AND THE UNDERWRITERS LABORATORIES, INC. (U.L.), WHERE EVER APPLICABLE, IN ADDITION TO THE REQUIREMENTS OF THE PLANS, STANDARD SPECIFICATIONS, AND THE SPECIAL PROVISIONS. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE, STANDARDS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AND ANY LOCAL ORDINANCES THAT MAY APPLY.
- C. LOCATION OF ILLUMINATION CONDUITS AND JUNCTION BOXES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH OTHER UTILITIES TO ENSURE PROPER INSTALLATION.
- D. CONTRACTOR TO COORDINATE WITH MARK LEAVITT FROM CITY OF BEAVERTON AT (971) 246-0237 FOR ACCESS TO EXISTING LIGHTING CONTROL CABINET FOR POWER CONTROL.
- E. CONTRACTOR TO TERMINATE CONDUCTORS FOR CHRISTMAS LIGHTS 1 POLE BASE WITH FUSED DISCONNECT. CITY OF BEAVERTON TO INSTALL CHRISTMAS LIGHTS.

LEGEND

-  INSTALL NEW STREET LIGHT POLE NO. (N) ON NEW FOUNDATION. SEE SHEET ES_ ___ FOR POLE AND FIXTURE DETAILS.
-  INSTALL (S=SIZE) INCH ELECTRICAL CONDUIT
-  N = NUMBER OF TYPE XHHW CONDUCTORS
X = CONDUCTOR SIZE
Y = CIRCUIT NUMBER
G = COPPER GROUND WIRE
-  EXISTING 240-VOLT SERVICE CABINET (50 AMP MAIN BREAKER WITH 2 EXISTING CIRCUITS).
-  REMOVE EXISTING LUMINAIRE AND POLE
-  REMOVE EXISTING UTILITY POLE WITH LUMINAIRE ARM (SEE UTILITY PLANS).
-  INSTALL POLY PULL LINE (225 FT./LB. MIN. STRENGTH)
-  INSTALL 22"X12"X12" (MIN. DIMENSION) PRECAST CONCRETE JUNCTION BOX
-  INSTALL 22"X12"X12" (MIN. DIMENSION) PRECAST CONCRETE JUNCTION BOX WITH CONCRETE APRON
-  INSTALL CONTROL CABINET. SEE DETAILS ON SHEET ___
N = NAME OF CABINET
-  INSTALL PHOTOCELL ON SIDE OF POLE TO CONTROL ALL STREET LIGHTS FOR THIS PROJECT. MOUNT AT 10'-0" ABOVE FINISHED GRADE.
-  DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER

SHEET INDEX

ES0.01	SYMBOLS LIST AND GENERAL NOTES - ELECTRICAL
ESD1.00	OVERALL STREET LIGHTING DEMO PLAN
ES1.00	OVERALL SITE PLAN STREET LIGHTING
ES1.01	STREET LIGHTING PLAN - SW FARMINGTON ROAD
ES1.02	STREET LIGHTING PLAN - SW 2ND STREET
ES1.03	STREET LIGHTING PLAN - SW ERICKSON AVENUE
ES1.04	STREET LIGHTING PLAN - SW STOTT STREET, SW 2ND & 3RD STREET
ES2.01	DETAILS - ELECTRICAL



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PROJECT: 2022-0662
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**BEAVERTON HIGH SCHOOL
REBUILD**
13000 SW 2ND STREET, BEAVERTON OR 97005
BEAVERTON SCHOOL DISTRICT



date	revisions
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016
SYMBOL LIST AND GENERAL NOTES - ELECTRICAL	

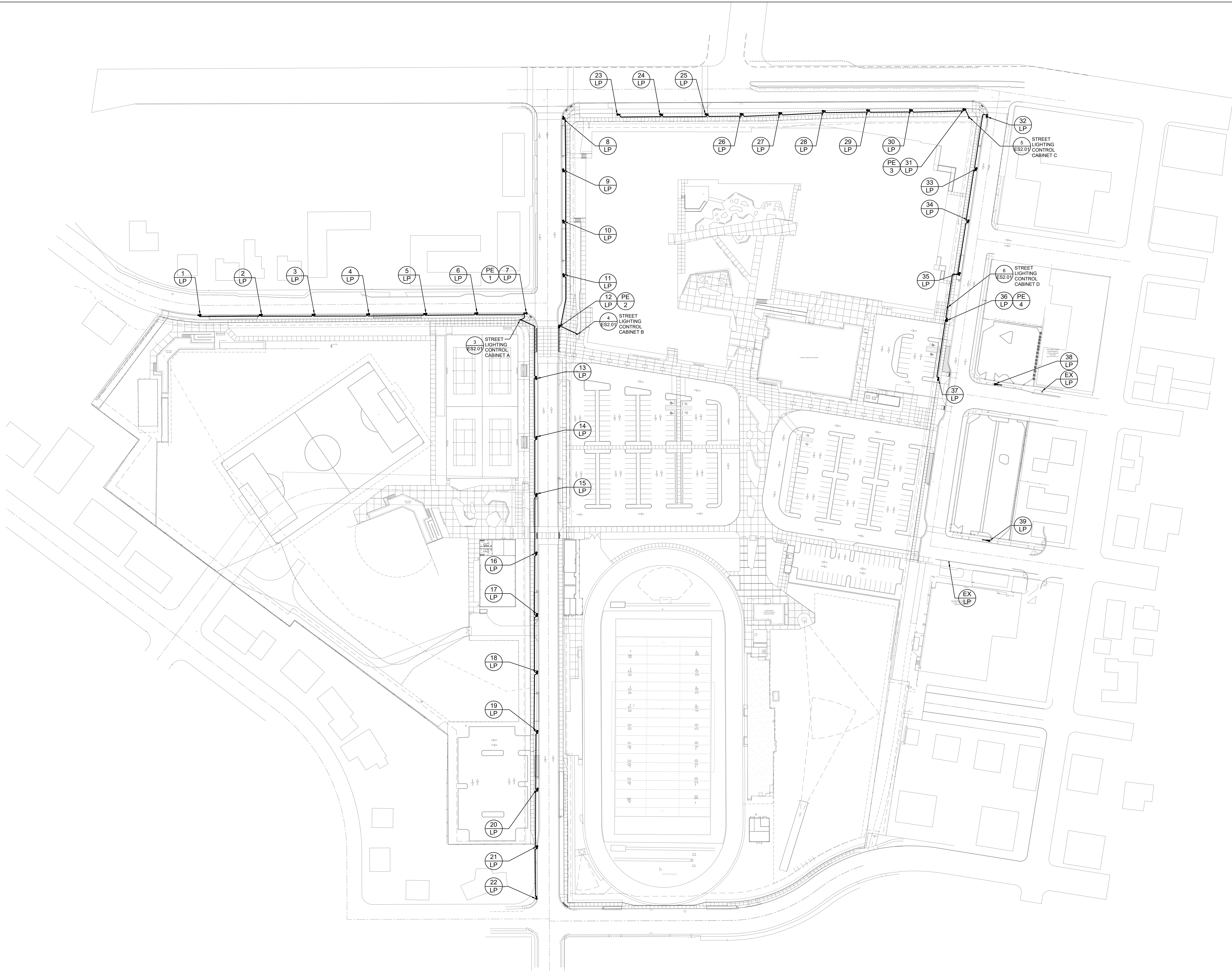
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date	revisions
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date	08/11/2023
project	21016
OVERALL SITE PLAN STREET LIGHTING	

ES1.00



1 OVERALL STREET LIGHTING PLAN
0 60 120
SCALE: 1"=60'-0"

LIGHT TABLES					
ROADWAY	CLASSIFICATION*		AVERAGE LIGHT LEVEL (FOOT-CANDLES)	UNIFORMITY RATIO (AVG-MIN)	LIGHT LOSS FACTOR
SW FARMINGTON ROAD	ARTERIALS (COMMERCIAL)	RECOMMENDED*	2	< 3:1	0.85
		DESIGN	1.60	4.00:1	
SW 2ND STREET (WEST OF BHS)	NEIGHBORHOOD ROUTE (MIXED-USE)	RECOMMENDED*	0.9	< 6:1	0.85
		DESIGN	0.99	4.95:1	
SW 2ND STREET (EAST OF BHS)	NEIGHBORHOOD ROUTE (MIXED-USE)	RECOMMENDED*	0.6	< 6:1	0.85
		DESIGN	0.52	5.20:1	
SW ERICKSON AVENUE	COLLECTORS (MIXED-USE)	RECOMMENDED*	0.9	< 6:1	0.85
		DESIGN	0.98	4.90:1	
SW STOTT STREET	LOCAL STREETS (MIXED-USE)	RECOMMENDED*	0.9	< 6:1	0.85
		DESIGN	0.99	4.95:1	
SW 3RD STREET	NEIGHBORHOOD ROUTE (MIXED-USE)	RECOMMENDED*	0.6	< 6:1	0.85
		DESIGN	0.53	5.30:1	

* = PER TABLE 450.1 OF THE CITY OF BEAVERTON ENGINEERING DESIGN MANUAL

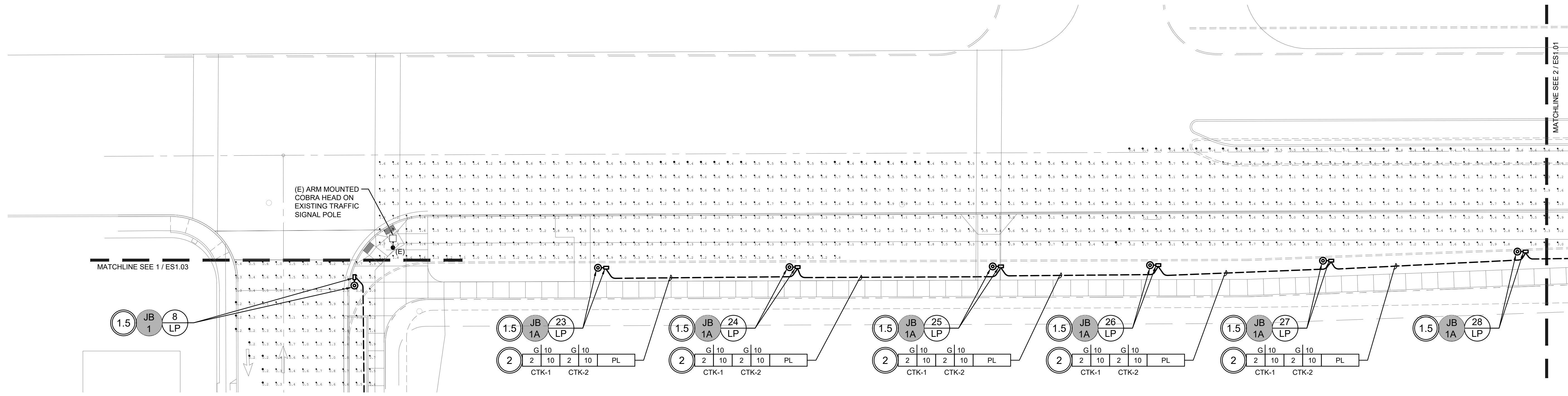
LIGHT POLE LOCATION TABLE - FARMINGTON ROAD										
POLE NO.	STATION OFFSET	CIRCUIT NO.	POLE			LUMINAIRE				FOUNDATION (OR APPROVED EQUAL)
			TYPE (OR APPROVED EQUAL)	POLE HEIGHT	OPTIONS/ ACCESSORIES	FIXTURE (OR APPROVED EQUAL)	WATT	TYPE	DISTRIBUTION	
23	2+60.29; R 42.34'	C-1	AMERLUX AP1305-16-BLK	16'	GFCE-TOP	CA24T4D-VS3AR-T3M-P100-40K-240-R30-PT-F2AP-BK-SM	112	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB
24	3+31.80; R 42.37'	C-1	AMERLUX AP1305-16-BLK	16'	GFCE-TOP	CA24T4D-VS3AR-T3M-P100-40K-240-R30-PT-F2AP-BK-SM	112	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB
25	4+07.74; R 42.35'	C-1	AMERLUX AP1305-16-BLK	16'	GFCE-TOP	CA24T4D-VS3AR-T3M-P100-40K-240-R30-PT-F2AP-BK-SM	112	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB
26	4+66.50; R 42.08'	C-1	AMERLUX AP1305-16-BLK	16'	GFCE-TOP	CA24T4D-VS3AR-T3M-P100-40K-240-R30-PT-F2AP-BK-SM	112	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB
27	5+1.10; R 40.63'	C-1	AMERLUX AP1305-16-BLK	16'	GFCE-TOP	CA24T4D-VS3AR-T3M-P100-40K-240-R30-PT-F2AP-BK-SM	112	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB
28	6+03.74; R 37.48'	C-1	AMERLUX AP1305-16-BLK	16'	GFCE-TOP	CA24T4D-VS3AR-T3M-P100-40K-240-R30-PT-F2AP-BK-SM	112	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB
29	6+77.99; R 36.36'	C-1	AMERLUX AP1305-16-BLK	16'	GFCE-TOP	CA24T4D-VS3AR-T3M-P100-40K-240-R30-PT-F2AP-BK-SM	112	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB
30	7+49.80; R 36.37'	C-1	AMERLUX AP1305-16-BLK	16'	GFCE-TOP	CA24T4D-VS3AR-T3M-P100-40K-240-R30-PT-F2AP-BK-SM	112	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB
31	8+38.94; R 35.29'	C-1	AMERLUX AP1305-16-BLK	16'	GFCE-TOP	CA24T4D-VS3AR-T3M-P100-40K-240-R30-PT-F2AP-BK-SM	112	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB

GENERAL SHEET NOTES

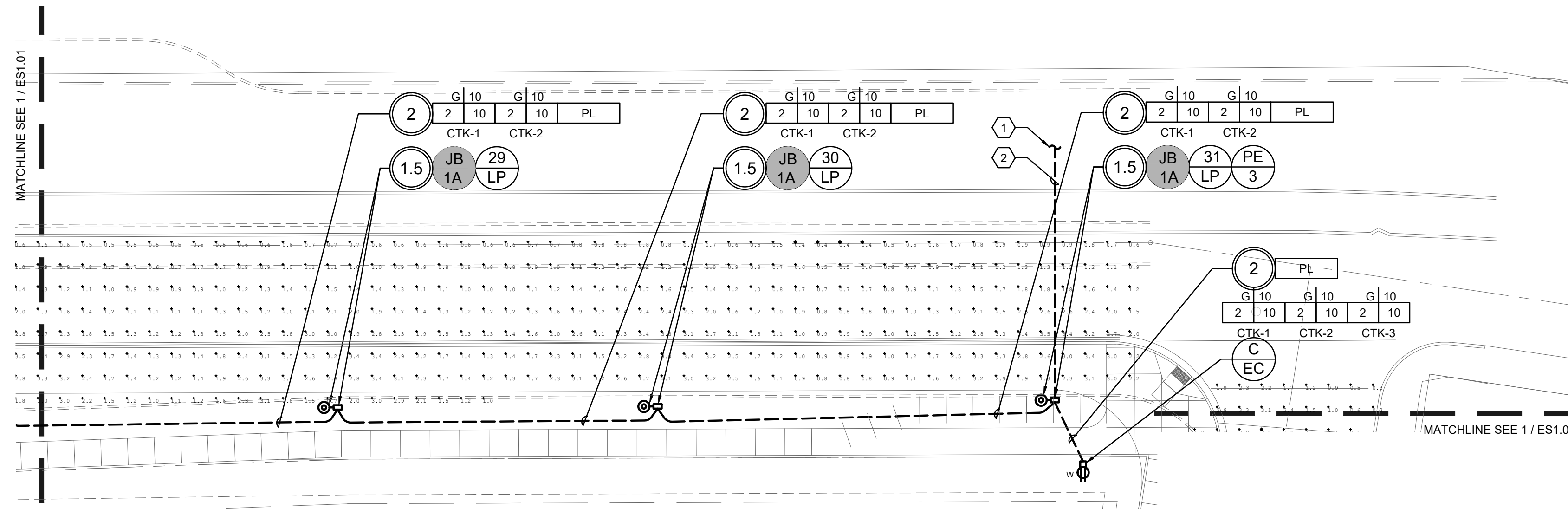
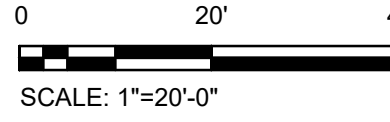
- A. INSTALL STREET LIGHTS 2'-6" (MIN) AWAY FROM CURB FACE.

SHEET KEYNOTES

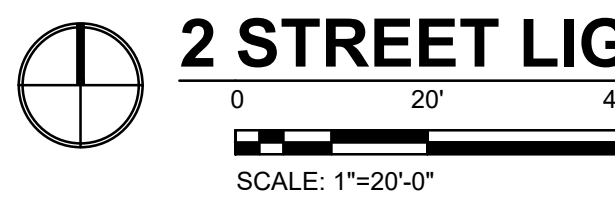
- NEW STREET LIGHTING CABINET ON FARMINGTON ROAD TO BE FED FROM EXISTING SUBMERSIBLE TRANSFORMER ACROSS THE STREET FROM FARMINGTON ROAD. COORDINATE WITH PGE ON EXACT LOCATION.
- PROVIDE 3-INCH EMPTY CONDUIT WITH PULL CORD.



1 STREET LIGHTING PLAN: SW FARMINGTON ROAD



2 STREET LIGHTING PLAN: SW FARMINGTON ROAD



BRIC
ARCHITECTURE, INC.

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date	revisions
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date	08/11/2023
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STREET LIGHTING PLAN SW FARMINGTON ROAD	

ES1.01

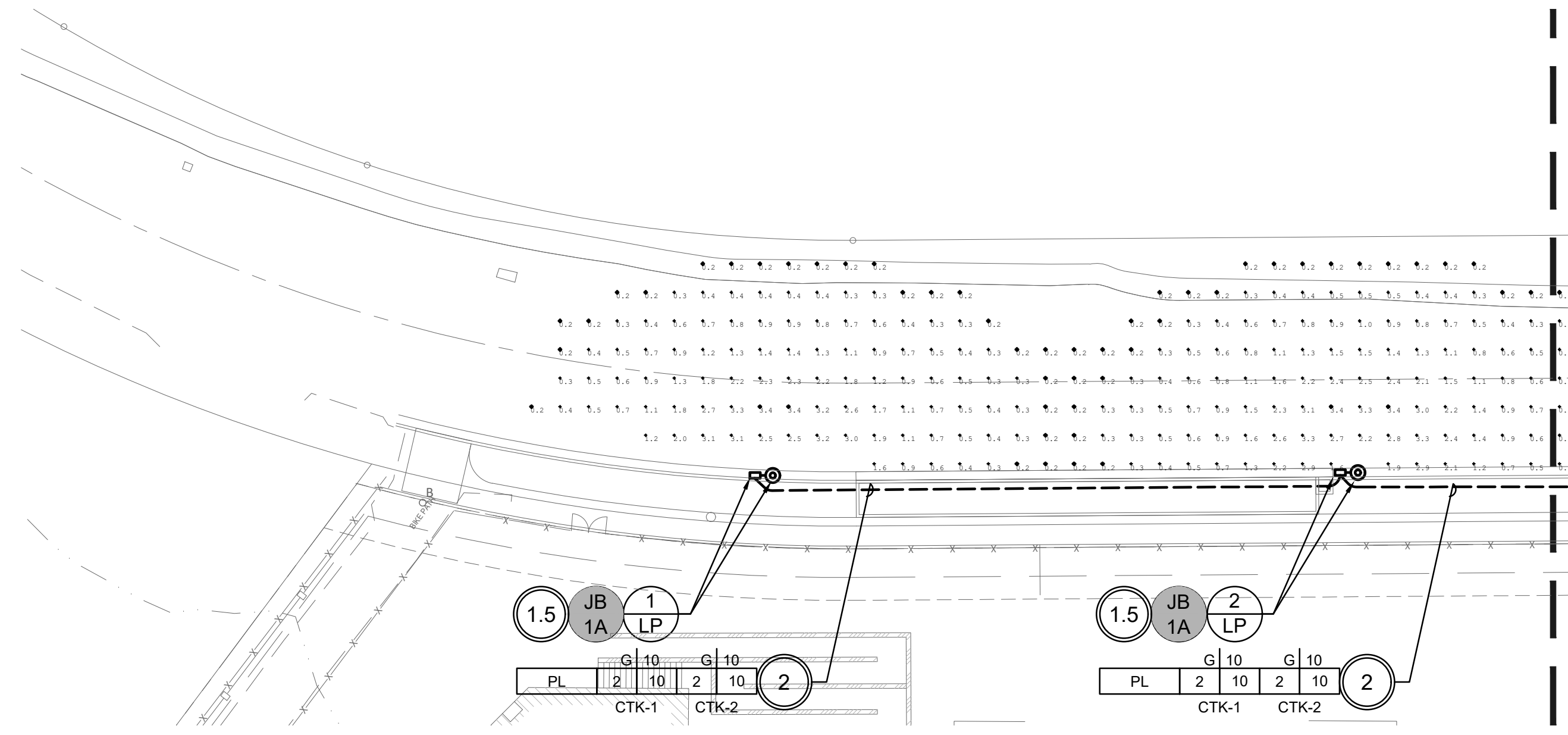
LIGHT TABLES					
ROADWAY	CLASSIFICATION*		AVERAGE LIGHT LEVEL (FOOT-CANDLES)	UNIFORMITY RATIO (AVG-MIN)	LIGHT LOSS FACTOR
SW FARMINGTON ROAD	ARTERIALS (COMMERCIAL)	RECOMMENDED*	2	< 3:1	0.85
		DESIGN	1.60	4.00:1	
SW 2ND STREET (WEST OF BHS)	NEIGHBORHOOD ROUTE (MIXED-USE)	RECOMMENDED*	0.9	< 6:1	0.85
		DESIGN	0.99	4.95:1	
SW 2ND STREET (EAST OF BHS)	NEIGHBORHOOD ROUTE (MIXED-USE)	RECOMMENDED*	0.6	< 6:1	0.85
		DESIGN	0.52	5.20:1	
SW ERICKSON AVENUE	COLLECTORS (MIXED-USE)	RECOMMENDED*	0.9	< 6:1	0.85
		DESIGN	0.98	4.90:1	
SW STOTT STREET	LOCAL STREETS (MIXED-USE)	RECOMMENDED*	0.9	< 6:1	0.85
		DESIGN	0.99	4.95:1	
SW 3RD STREET	NEIGHBORHOOD ROUTE (MIXED-USE)	RECOMMENDED*	0.6	< 6:1	0.85
		DESIGN	0.53	5.30:1	

* = PER TABLE 450.1 OF THE CITY OF BEAVERTON ENGINEERING DESIGN MANUAL

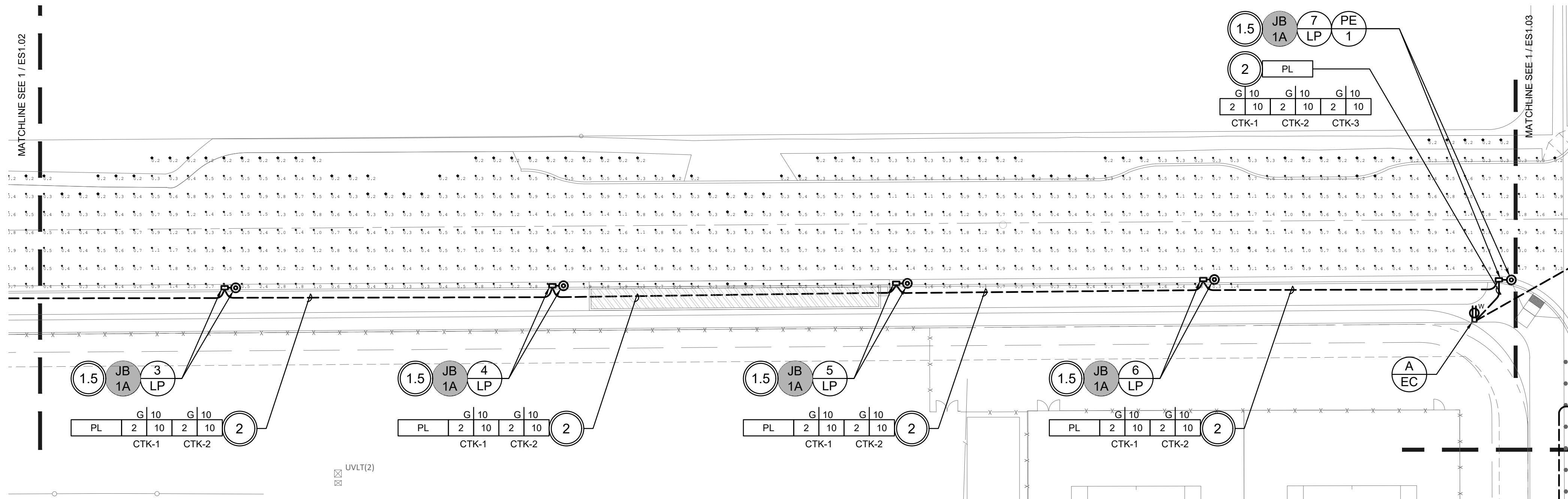
LIGHT POLE LOCATION TABLE - SW 2ND STREET										
POLE NO.	STATION OFFSET	CIRCUIT NO.	POLE			LUMINAIRE				FOUNDATION (OR APPROVED EQUAL)
			TYPE (OR APPROVED EQUAL)	POLE HEIGHT	OPTIONS/ ACCESSORIES	FIXTURE (OR APPROVED EQUAL)	WATT	TYPE	DISTRIBUTION	
1	42+19.45; R 16.36'	A-1.	AMERLUX AP1305-14-BLK	14'	GFCI-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P60-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE SCL-LB
2	43+21.14; R 16.27'	A-1.	AMERLUX AP1305-14-BLK	14'	GFCI-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P60-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE SCL-LB
3	44+09.73; R 16.45'	A-1.	AMERLUX AP1305-14-BLK	14'	GFCI-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P60-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE SCL-LB
4	45+00.86; R 16.56'	A-1.	AMERLUX AP1305-14-BLK	14'	GFCI-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P60-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE SCL-LB
5	45+96.45; R 16.59'	A-1.	AMERLUX AP1305-14-BLK	14'	GFCI-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P60-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE SCL-LB
6	46+81.78; R 16.12'	A-1.	AMERLUX AP1305-14-BLK	14'	GFCI-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P60-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE SCL-LB
7	47+64.35; R 16.82'	A-1.	AMERLUX AP1305-14-BLK	14'	GFCI-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P60-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE SCL-LB

GENERAL SHEET NOTES

- A. INSTALL STREET LIGHTS 2'-6" (MIN) AWAY FROM CURB FACE.



1 STREET LIGHTING PLAN: SW 2ND STREET
 0 20' 40'
 SCALE: 1"=20'-0"



2 STREET LIGHTING PLAN: SW 2ND STREET
 0 20' 40'
 SCALE: 1"=20'-0"

date	revisions
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016 STREET LIGHTING PLAN SW 2ND STREET

LIGHT TABLES					
ROADWAY	CLASSIFICATION*		AVERAGE LIGHT LEVEL (FOOT-CANDLES)	UNIFORMITY RATIO (AVG-MIN)	LIGHT LOSS FACTOR
SW FARMINGTON ROAD	ARTERIALS (COMMERCIAL)	RECOMMENDED*	2	< 3 : 1	0.85
		DESIGN	1.60	4.00 : 1	
SW 2ND STREET (WEST OF BHS)	NEIGHBORHOOD ROUTE (MIXED-USE)	RECOMMENDED*	0.9	< 6 : 1	0.85
		DESIGN	0.99	4.95 : 1	
SW 2ND STREET (EAST OF BHS)	NEIGHBORHOOD ROUTE (MIXED-USE)	RECOMMENDED*	0.6	< 6 : 1	0.85
		DESIGN	0.52	5.20 : 1	
SW ERICKSON AVENUE	COLLECTORS (MIXED-USE)	RECOMMENDED*	0.9	< 6 : 1	0.85
		DESIGN	0.98	4.90 : 1	
SW STOTT STREET	LOCAL STREETS (MIXED-USE)	RECOMMENDED*	0.9	< 6 : 1	0.85
		DESIGN	0.99	4.95 : 1	
SW 3RD STREET	NEIGHBORHOOD ROUTE (MIXED-USE)	RECOMMENDED*	0.6	< 6 : 1	0.85
		DESIGN	0.53	5.30 : 1	

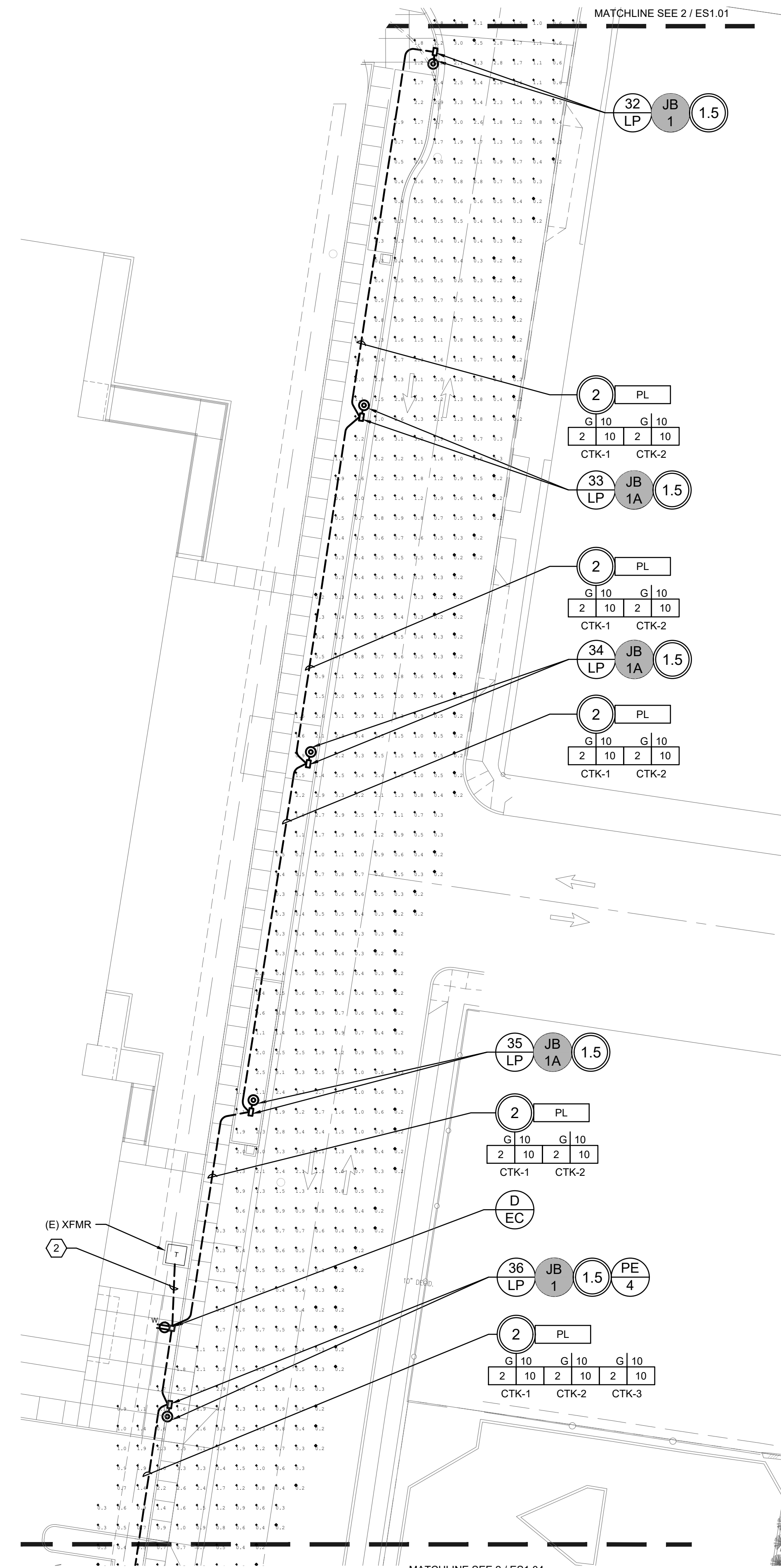
* = PER TABLE 450.1 OF THE CITY OF BEAVERTON ENGINEERING DESIGN MANUAL

LIGHT POLE LOCATION TABLE - SW STOTT STREET										
POLE NO.	STATION OFFSET	CIRCUIT NO.	POLE			LUMINAIRE				FOUNDATION (OR APPROVED EQUAL)
			TYPE (OR APPROVED EQUAL)	POLE HEIGHT	OPTIONS/ ACCESSORIES	FIXTURE (OR APPROVED EQUAL)	WATT	TYPE	DISTRIBUTION	
32	32+24.81; L 14.78'	D-1	AMERLUX AP1305-14-BLK	14'	GFCL-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P60-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB
33	31+36.91; L 19.03'	D-1	AMERLUX AP1305-14-BLK	14'	GFCL-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P60-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB
34	30+48.33; L 19.10'	D-1	AMERLUX AP1305-14-BLK	14'	GFCL-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P60-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB
35	29+59.21; L 20.14'	D-1	AMERLUX AP1305-14-BLK	14'	GFCL-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P60-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB
36	28+76.93; L 29.56'	D-1	AMERLUX AP1305-14-BLK	14'	GFCL-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P60-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB
37	27+77.35; L 28.82'	D-1	AMERLUX AP1305-14-BLK	14'	GFCL-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P60-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB

LIGHT POLE LOCATION TABLE - SW 2ND STREET										
38	27+84.46; R 66.38'	NOTE 1	AMERLUX AP1305-14-BLK	14'	GFCL-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P40-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB

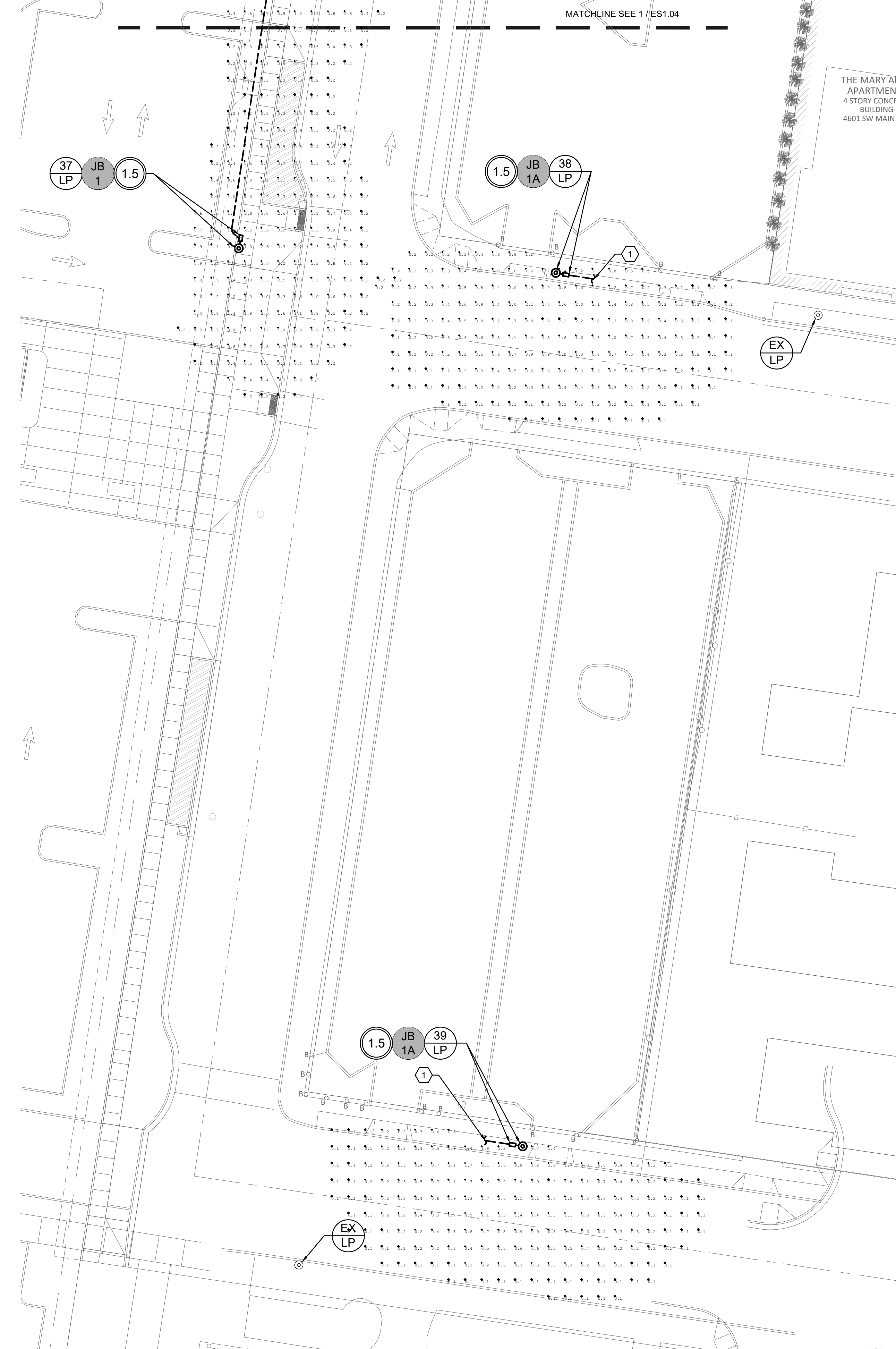
LIGHT POLE LOCATION TABLE - SW 3RD STREET										
39	25+23.74; R 96.11'	NOTE 1	AMERLUX AP1305-14-BLK	14'	GFCL-TOP	CYCLONE SYMPHONY CA24T4D-VS3AR-T3M-P40-40K-240-R30-PT-BK-TX	67	LED	TYPE III MEDIUM	OLDCASTLE 5CL-LB

NOTES:
1 EXTEND TO EXISTING STREET LIGHTING CIRCUIT FROM EXISTING STREET LIGHT. SEE PLANS.



1 STREET LIGHTING PLAN: SW STOTT STREET

SCALE: 1"=20'-0"



2 STREET LIGHTING PLAN: SW STOTT STREET, SW 2ND & 3RD STREET

SCALE: 1"=20'-0"

- ### GENERAL SHEET NOTES
- A. INSTALL STREET LIGHTS 2'-6" (MIN) AWAY FROM CURB FACE.
- ### SHEET KEYNOTES
- EXTEND TO EXISTING STREET LIGHTING CIRCUIT FROM EXISTING STREET LIGHT.
 - PROVIDE 3-INCH EMPTY CONDUIT WITH PULL CORD.



date	revisions
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016
	STREET LIGHTING PLAN
	SW STOTT STREET,
	SW 2ND & 3RD STREET

GENERAL SHEET NOTES

A. STREET LIGHTS (SOUTH) SHOWN TO BE DEMOLISHED ON FARMINGTON ROAD ARE ON THE SAME CIRCUIT AS THE STREET LIGHTS (NORTH - NOT SHOWN). MAINTAIN CIRCUIT SO THAT STREET LIGHTS (NORTH - NOT SHOWN) ON FARMINGTON ROAD ARE STILL OPERATIONAL.

SHEET KEYNOTES

- EXISTING COBRA HEAD STREET LIGHTS ARE OPTION 'A'. COORDINATE WITH PGE TO HAVE PGE REMOVE THESE STREET LIGHTS. REMOVE FEEDER BACK TO SOURCE.
- DISCONNECT AND REMOVE ACORN ORNAMENTAL STREET LIGHT. REMOVE ALL CONDUIT/WIRING BACK TO SOURCE. RETURN ALL POLES AND FIXTURES TO THE CITY. COORDINATE WITH MARK LEAVITT AT (971) 246-8237 FOR 3 DAYS ADVANCE NOTICE FOR TIME AND LOCATION OF DELIVERY.
- DISCONNECT AND REMOVE STREET LIGHTING CABINET. REMOVE FEEDER BACK TO SOURCE.
- COORDINATE WITH PGE TO HAVE PGE REMOVE LIGHTS FROM EXISTING UTILITY POLE. EXISTING UTILITY POLE TO BE REMOVED BY PGE.



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1 OVERALL STREET LIGHTING DEMO PLAN
0 60' 120'
SCALE: 1"=60'-0"

date	revisions
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016
OVERALL STREET LIGHTING DEMO PLAN	
ESD1.00	