General Electric Company

GE Lighting Solutions
East Flat Rock, NC 28726

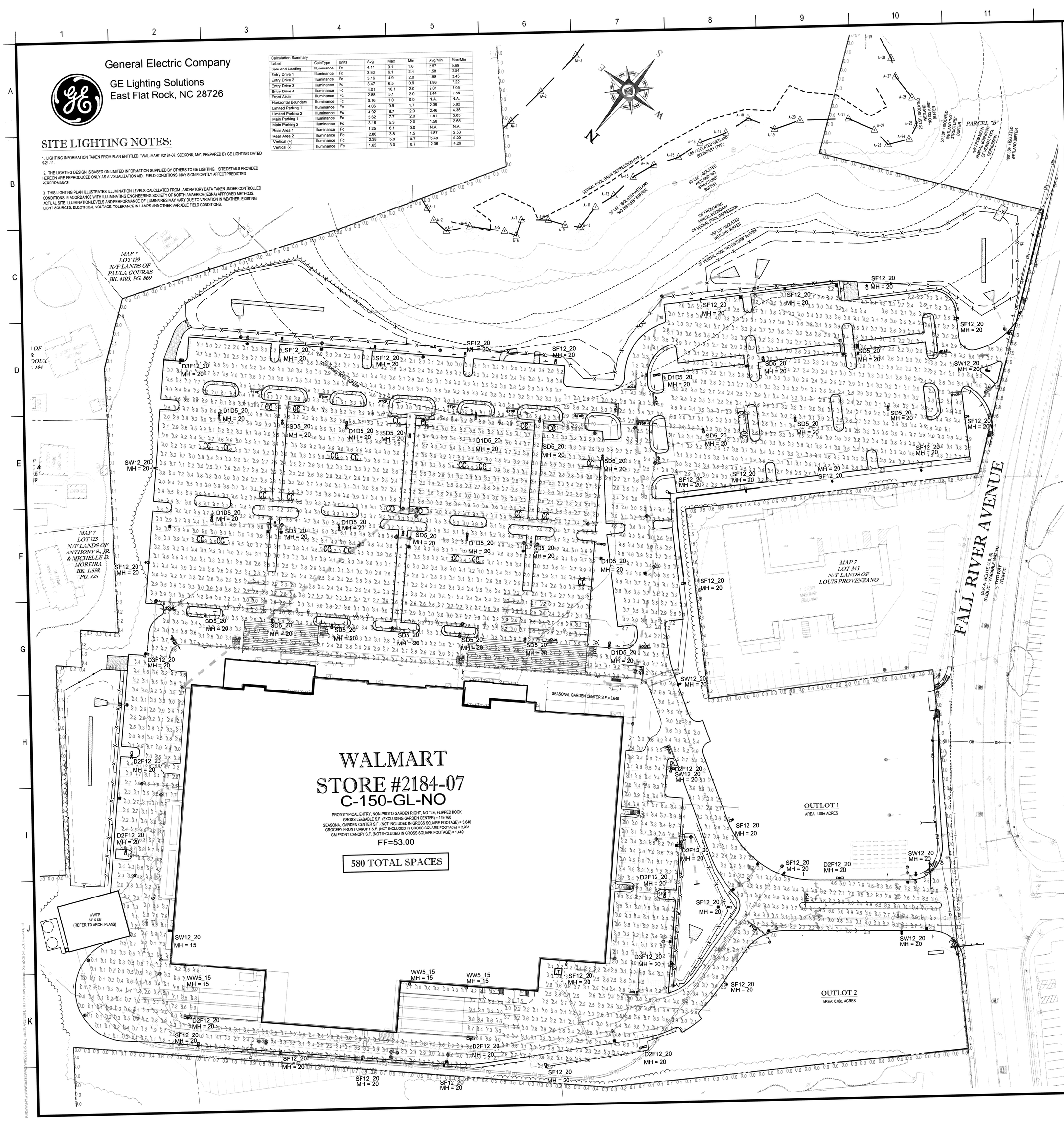
SITE LIGHTING NOTES:

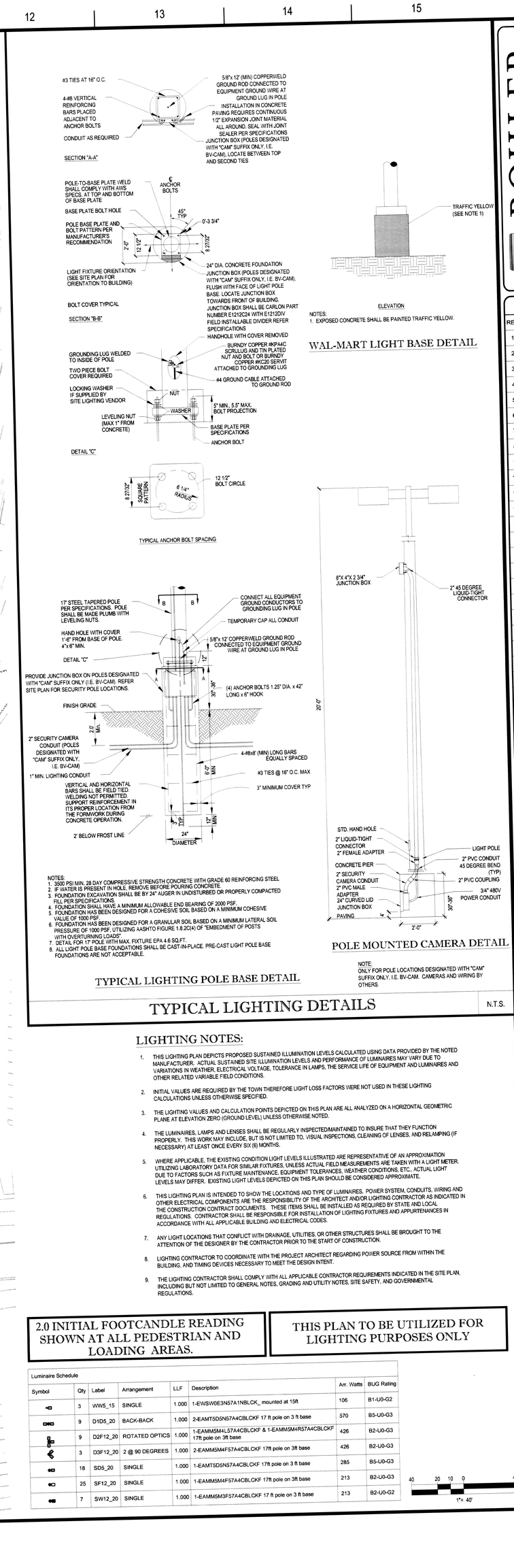
1. LIGHTING INFORMATION TAKEN FROM PLAN ENTITLED, "WAL-MART #2184-07, SEEKONK, MA", PREPARED BY GE LIGHTING, DATED 9-21-11.

2. THE LIGHTING DESIGN IS BASED ON LIMITED INFORMATION SUPPLIED BY OTHERS TO GE LIGHTING. SITE DETAILS PROVIDED HEREON ARE REPRODUCED ONLY AS A VISUALIZATION AID. FIELD CONDITIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE.

3. THIS LIGHTING PLAN ILLUSTRATES ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATION IN WEATHER, EXISTING LIGHT SOURCES, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER VARIABLE FIELD CONDITIONS.

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Bale and Loading	Illuminance	Fc	4.11	9.1	1.6	2.57	5.69
Entry Drive 1	Illuminance	Fc	3.80	6.1	2.4	1.58	2.54
Entry Drive 2	Illuminance	Fc	3.16	4.9	2.0	1.58	2.45
Entry Drive 3	Illuminance	Fc	3.47	6.5	0.9	3.86	7.22
Entry Drive 4	Illuminance	Fc	4.01	10.1	2.0	2.01	5.05
Front Aisle	Illuminance	Fc	2.88	5.1	2.0	1.44	2.55
Horizontal Boundary	Illuminance	Fc	0.16	1.0	0.0	N.A.	N.A.
Limited Parking 1	Illuminance	Fc	4.06	9.9	1.7	2.39	5.82
Limited Parking 2	Illuminance	Fc	4.92	8.7	2.0	2.46	4.35
Main Parking 1	Illuminance	Fc	3.62	7.7	2.0	1.81	3.85
Main Parking 2	Illuminance	Fc	3.16	5.3	2.0	1.58	2.65
Rear Area 1	Illuminance	Fc	1.25	6.1	0.0	N.A.	N.A.
Rear Area 2	Illuminance	Fc	2.80	3.8	1.5	1.87	2.53
Vertical (+)	Illuminance	Fc	2.38	5.8	0.7	3.40	8.29
Vertical (-)	Illuminance	Fc	1.65	3.0	0.7	2.36	4.29





LIGHTING NOTES:

1. THIS LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER. ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
2. INITIAL VALUES ARE REQUIRED BY THE TOWN THEREFORE LIGHT LOSS FACTORS WERE NOT USED IN THESE LIGHTING CALCULATIONS UNLESS OTHERWISE SPECIFIED.
3. THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED.
4. THE LUMINAIRES, LAMPS AND LENSES SHALL BE REGULARLY INSPECTED/MAINTAINED TO INSURE THAT THEY FUNCTION PROPERLY. THIS WORK MAY INCLUDE, BUT IS NOT LIMITED TO, VISUAL INSPECTIONS, CLEANING OF LENSES, AND RELAMPING (IF NECESSARY) AT LEAST ONCE EVERY SIX (6) MONTHS.
5. WHERE APPLICABLE, THE EXISTING CONDITION LIGHT LEVELS ILLUSTRATED ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES, UNLESS ACTUAL FIELD MEASUREMENTS ARE TAKEN WITH A LIGHT METER. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC., ACTUAL LIGHT LEVELS MAY DIFFER. EXISTING LIGHT LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED APPROXIMATE.
6. THIS LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, POWER SYSTEM, CONDUITS, WIRING AND OTHER ELECTRICAL COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT AND/OR LIGHTING CONTRACTOR AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THESE ITEMS SHALL BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES.
7. ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
8. LIGHTING CONTRACTOR TO COORDINATE WITH THE PROJECT ARCHITECT REGARDING POWER SOURCE FROM WITHIN THE BUILDING, AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT.
9. THE LIGHTING CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE SITE PLAN, INCLUDING BUT NOT LIMITED TO GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND GOVERNMENTAL REGULATIONS.

2.0 INITIAL FOOTCANDLE READING SHOWN AT ALL PEDESTRIAN AND LOADING AREAS.

THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Watts	BUG Rating
	3	WW5_15	SINGLE	1.000	1-EWSW0E3NS7A1NBLCK_ mounted at 15ft	106	B1-U0-G2
	9	D1D5_20	BACK-BACK	1.000	2-EAMT5D5NS7A4CBLCKF 17 ft pole on 3 ft base	570	B5-U0-G3
	9	D2F12_20	ROTATED OPTICS	1.000	1-EAMM5M4LS7A4CBLCKF & 1-EAMM5M4RS7A4CBLCKF 17ft pole on 3ft base	426	B2-U0-G3
	3	D3F12_20	2 @ 90 DEGREES	1.000	2-EAMM5M4FS7A4CBLCKF 17ft pole on 3ft base	426	B2-U0-G3
	18	SD5_20	SINGLE	1.000	1-EAMT5D5NS7A4CBLCKF 17ft pole on 3 ft base	285	B5-U0-G3
	25	SF12_20	SINGLE	1.000	1-EAMM5M4FS7A4CBLCKF 17ft pole on 3ft base	213	B2-U0-G3
	7	SW12_20	SINGLE	1.000	1-EAMM5M3FS7A4CBLCKF 17 ft pole on 3 ft base	213	B2-U0-G2

40 20 10 0 40
1"= 40'

BOHLER ENGINEERING

CORPORATE OFFICE:
352 TURNPIKE ROAD
SOUTHBOROUGH, MA
OFFICES:
• CHALFONT, PA
• MOUNTAINSIDE, NJ
• STERLING, VA
• TOWSON, MD
• WILMINGTON, DE
• ROCHESTER, NY
• ROANOKE, VA
• FORT LAUDERDALE, FL
• DALLAS, TX

CIVIL & CONSULTING ENGINEERS
SITEWORKS
PROJECT MANAGERS
ENVIRONMENTAL CONSULTANTS
LANDSCAPE ARCHITECTS

THE INFORMATION, DESIGNS, AND DRAWINGS SHOWN ON THIS DOCUMENT ARE PROPRIETARY AND CONFIDENTIAL AND MAY BE USED FOR THE CONSTRUCTION OF A SINGLE PROJECT AS DESCRIBED IN THE CONTRACT DOCUMENTS. ANY OTHER USE OR REPRODUCTION WITHOUT WRITTEN PERMISSION IS PROHIBITED.

REVISIONS

REV	DATE	COMMENT	BY
1	6/03/11	REVS PER TOWN PB FILING	KBS
2	9/6/11	BUILDING LOCATION	AWP
3	11/14/11	TOWN REVIEW COMMENTS	AWP
4	12/14/11	REVS PER TOWN/PEER REVIEW COMMENT	EGD
5	01/23/12	REVS PER CON. COMM. COMMENTS	JSE
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THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.
(MA, ME, NH, RI, VT 1-888-344-7233)
(CT 1-800-922-4455)
(NY 1-800-962-7962)

PERMIT SET

PROJECT No.:	W050623
DRAWN BY:	KBS/CFD
CHECKED BY:	MDS/JAK
DATE:	03/14/2011
SCALE:	AS SHOWN
CAD I.D.:	W050623SS

PROJECT: SITE DEVELOPMENT PLANS FOR

Walmart

STORE # 2184-07
PROPOSED RETAIL DEVELOPMENT

LOTS 25, 29, 30, 33, 63, 199 & 218, MAP 7
1300 FALL RIVER AVENUE &
ANTHONY STREET
TOWN OF SEEKONK
BRISTOL COUNTY, MA

BOHLER ENGINEERING
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
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CONNECTICUT
MAINE
NEW HAMPSHIRE LICENSE No. 12931

SHEET TITLE:

LIGHTING PLAN

SHEET NUMBER:

C-6
OF 18

REV 5-01/23/2012