



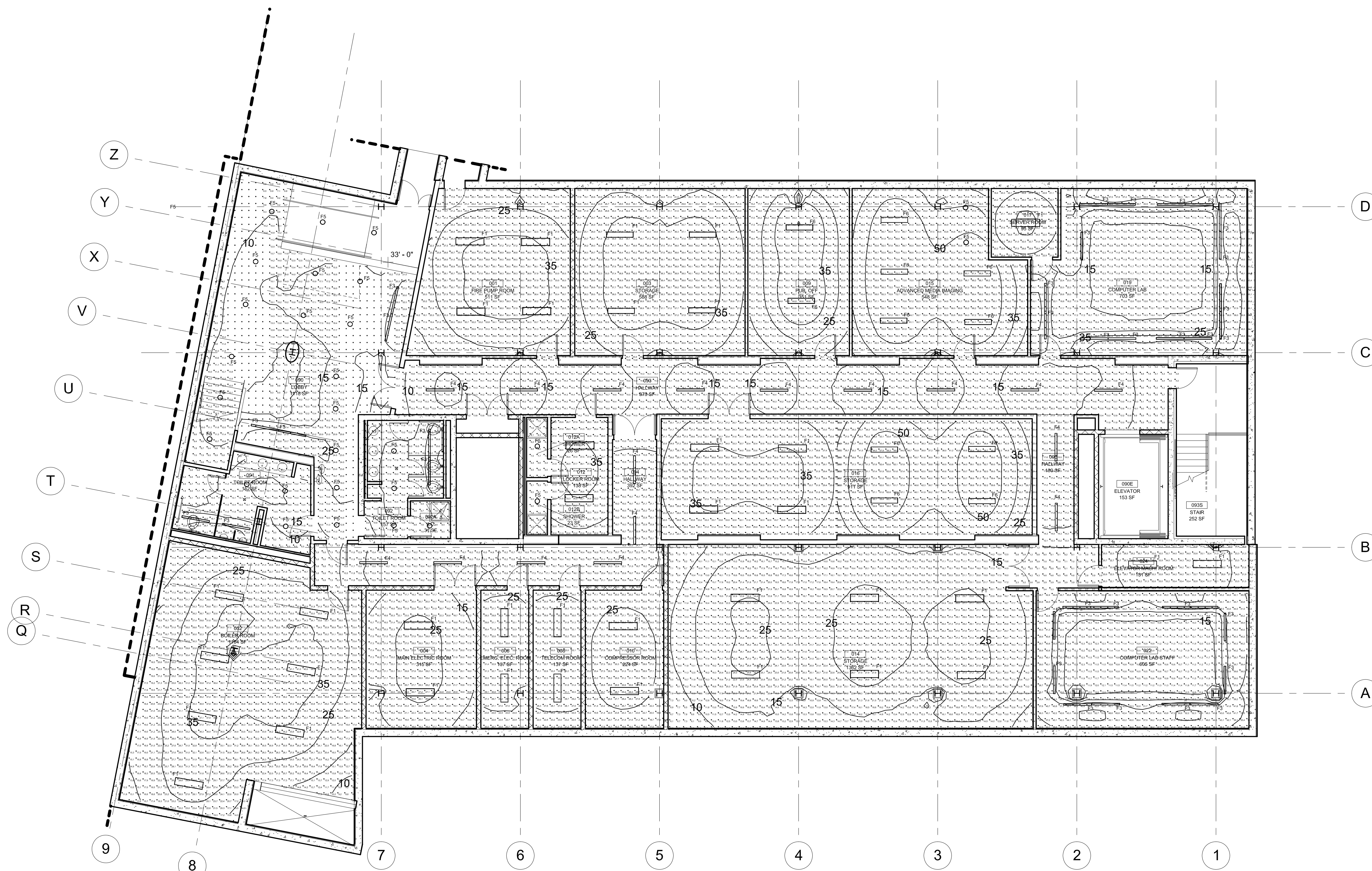
Thesis 2007

Pennsylvania State University
State College, PA 06802

KHA N DANG, LC INTERN
ARCHITECTURAL ENGINEERING
LIGHTING | ELECTRICAL option

T: 267 229 9370
E: knd107@gmail.com
W: www.arch.psu.edu/thesis/portfolio/2007/
portfolio/knd107

C: Dr. Richard Mistrick
C2: Ted Dannerth



Symbol	Label	Qty	Cont'd Number	Description	Light	Fix	Lumens	L.F.	Watts
[Symbol]	F1	34	F1-2 (S17-18)	HEAVY DUTY PARABOLIC RECESSED BATHING LAMP WITH SLANTED GLASS LENS AND LAMP GUARD	THIRD QUANTY IS OVER FLUORESCENT BATHING LAMP (S17-18)	L1L1028-BL	4000	0.70	122.0
[Symbol]	F2	9	F2-3 (S17-18)	7.5" DIA. 2" LAMP SPRAYING RATED @ 5000 LUMENS RECESSED BATHING LAMP	SPRAYING RATED @ 5000 LUMENS RECESSED BATHING LAMP	np1475-BL	5000	0.81	120.4
[Symbol]	F3	36	F3-4 (S17-18)	2" DIA. 3" LAMP RECESSED BATHING LAMP WITH SLANTED GLASS LENS AND LAMP GUARD	RECESSED BATHING LAMP WITH SLANTED GLASS LENS AND LAMP GUARD	np1475-BL	4000	0.81	98.9
[Symbol]	F4	18	F4-5 (S17-18)	3.5" DIA. 3" LAMP RECESSED BATHING LAMP WITH SLANTED GLASS LENS AND LAMP GUARD	RECESSED BATHING LAMP WITH SLANTED GLASS LENS AND LAMP GUARD	L10054-BL	3000	0.81	88.1
[Symbol]	F5	26	F5-6 (S17-18)	4" LAMP DOWNLIGHT WITH WIRE MESH RECESSED BATHING LAMP	4" LAMP DOWNLIGHT WITH WIRE MESH RECESSED BATHING LAMP	L1L14618-BL	2400	0.70	54
[Symbol]	F6	16	F6-7 (S17-18)	4" LAMP DOWNLIGHT WITH WIRE MESH RECESSED BATHING LAMP	4" LAMP DOWNLIGHT WITH WIRE MESH RECESSED BATHING LAMP	L1L1008-BL	4000	0.70	104

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
001 FREE PUMP		25.2	30.7	0.0	N/A	N/A
002 BOILER ROOM		27.8	41.3	0.0	N/A	N/A
003 STORAGE		31.8	40.8	0.0	N/A	N/A
004 MAIN ELEC ROOM		20.5	26.5	7.8	3.61	2.21
005 HALLWAY		13.8	25.5	0.0	N/A	N/A
006 EMBER ELEC ROOM		28.8	35.8	15.4	2.21	1.81
007 TELECOM ROOM		29.2	35.8	25.2	1.21	1.41
008 PUB OFFICE		27.8	50.7	0.0	N/A	N/A
009 COMPUTER ROOM		24.8	31.2	14.8	2.11	1.81
010 LOCKER ROOM		31.8	38.2	30.7	1.81	1.81
011 SHOWER A		7.0	8.4	4.8	1.81	1.81
012 SHOWER B		7.0	8.7	4.8	2.01	1.71
013 STORAGE		19.1	28.7	0.0	N/A	N/A
014 BODY MEDIA		49.2	78.8	0.0	N/A	N/A
015 STORAGE		51.1	57.8	18.1	2.11	1.21
016 SERVER ROOM		27.8	36.8	18.4	2.81	1.81
017 COMPUTER LAB		29.8	59.2	11.7	5.11	2.81
018 COMP LAB STAFF		27.8	55.7	0.0	N/A	N/A
019 ELEVATOR MACHINE		28.1	34.2	0.0	N/A	N/A
020 LOBBY		14.8	34.7	0.0	N/A	N/A
021 RESTROOM		13.4	35.2	6.4	4.21	2.51
022 RESTROOM		17.2	35.7	8.4	4.31	2.51
023 JANITOR CLOSET		7.0	8.8	5.3	1.81	1.41
024 HALLWAY		19.8	25.3	6.8	4.81	3.01
025 LASER CUTTING LAB		45.8	65.8	10.2	3.41	2.31

Name	# Luminaires	Total Watts	Avg	Density
001 FREE PUMP	4	484.8 W	311.2 W/ft²	1.2 W/ft²
002 BOILER ROOM	7	652.2 W	107.0 W/ft²	0.8 W/ft²
003 STORAGE	4	480.0 W	88.4 W/ft²	0.8 W/ft²
004 MAIN ELEC ROOM	2	242.2 W	315.5 W/ft²	0.8 W/ft²
005 HALLWAY	11	661.1 W	144.8 W/ft²	0.8 W/ft²
006 EMBER ELEC ROOM	2	242.2 W	158.7 W/ft²	1.8 W/ft²
007 TELECOM ROOM	2	242.2 W	158.7 W/ft²	1.8 W/ft²
008 PUB OFFICE	2	242.2 W	360.0 W/ft²	0.7 W/ft²
009 COMPRESSOR ROOM	2	242.2 W	223.1 W/ft²	1.1 W/ft²
010 LOCKER ROOM	2	242.2 W	158.3 W/ft²	1.8 W/ft²
011 SHOWER A	1	34.0 W	25.8 W/ft²	1.3 W/ft²
012 SHOWER B	1	34.0 W	23.3 W/ft²	1.2 W/ft²
013 STORAGE	6	735.6 W	158.4 W/ft²	0.5 W/ft²
014 BODY MEDIA	7	685.8 W	548.4 W/ft²	1.3 W/ft²
015 STORAGE	4	484.8 W	423.4 W/ft²	1.2 W/ft²
016 SERVER ROOM	1	155.8 W	35.2 W/ft²	1.3 W/ft²
017 COMPUTER LAB	10	885.0 W	707.2 W/ft²	1.3 W/ft²
018 COMP LAB STAFF	12	738.0 W	665.0 W/ft²	1.2 W/ft²
019 ELEVATOR MACHINE	2	242.2 W	158.0 W/ft²	1.9 W/ft²
020 LOBBY	17	661.1 W	103.4 W/ft²	0.7 W/ft²
021 RESTROOM	5	231.8 W	200.1 W/ft²	1.1 W/ft²
022 RESTROOM	5	231.8 W	103.0 W/ft²	1.4 W/ft²
023 JANITOR CLOSET	1	34.0 W	33.2 W/ft²	1.1 W/ft²
024 HALLWAY	6	365.8 W	380.7 W/ft²	0.8 W/ft²
025 LASER CUTTING LAB	4	480.0 W	480.0 W/ft²	1.1 W/ft²

Copyright © 2007 by Autodesk, Inc. All rights reserved.

NO.	DATE	REVISION

PROJECT NAME	THESIS 2007 SCULPTURE BIDG PARKING GARAGE
BUILDING NAME & ADDRESS	
PROJECT NUMBER	

DRAWING TITLE	BASEMENT PJOTOMETRIC DATA
SCALE	1"=1'-0"
DRAWN BY	KND
CAD FILENAME	XX-XX-XXX.DWG
DATE	03/11/07
DRAWING NUMBER	EL-101

NOTE:

While great efforts have been taken to provide accurate and complete information, please be aware that the information contained herewith is considered a work-in-progress for this thesis project. Modifications and changes related to the original building designs and construction methodologies for this senior thesis project are solely the interpretation of Kha N. Dang. Changes and discrepancies in no way imply that the original design contained errors or was flawed. Differing assumptions, code references, requirements, and methodologies have been incorporated into this thesis project; therefore, investigation results may vary from the original design.

NOT FOR CONSTRUCTION