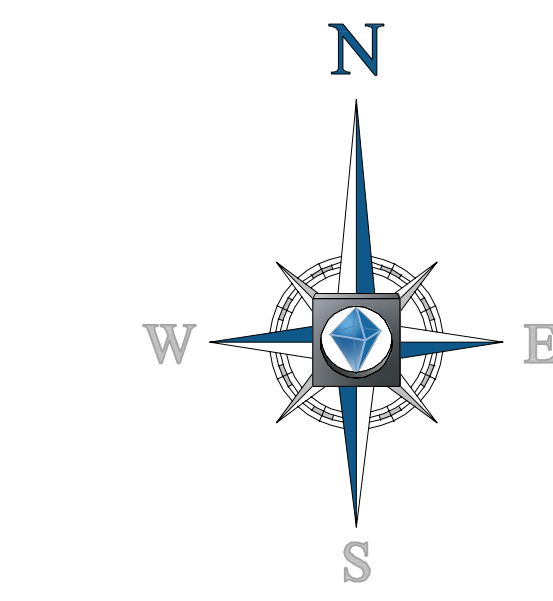
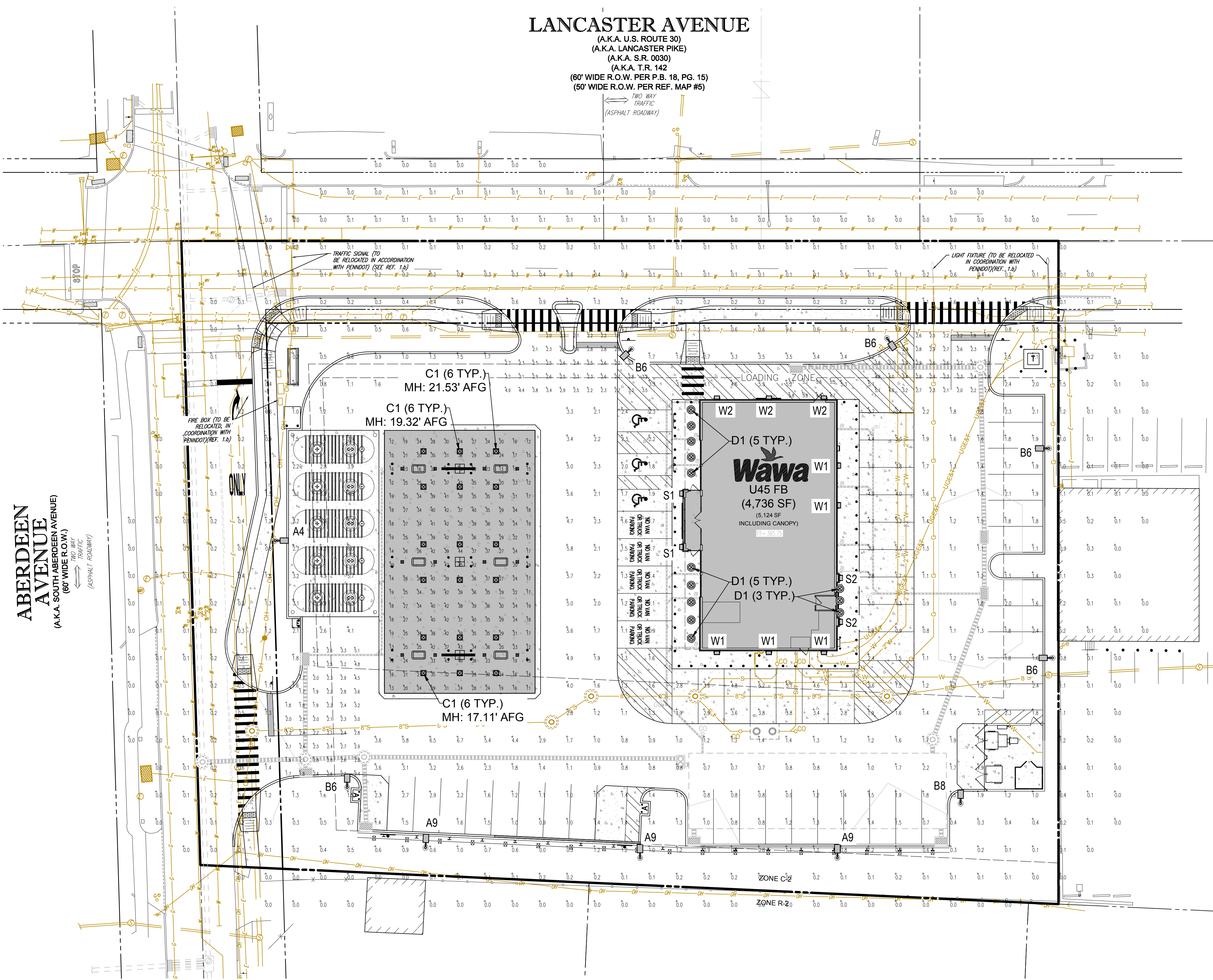


LANCASTER AVENUE

(A.K.A. U.S. ROUTE 30)
(A.K.A. LANCASTER PIKE)
(A.K.A. S.R. 0030)
(A.K.A. T.R. 142)
(60' WIDE R.O.W. PER P.B. 18, PG. 15)
(50' WIDE R.O.W. PER REF. MAP #5)

TWO WAY TRAFFIC (ASPHALT ROADWAY)

ABERDEEN AVENUE
(A.K.A. SOUTH ABERDEEN AVENUE)
(60' WIDE R.O.W.)



LIGHTING COMPLIANCE

SALDO
255-29 PARKING FACILITIES

(18) ALL COMMON PARKING AREAS SHALL BE ADEQUATELY LIGHTED DURING AFTER DARK OPERATING HOURS. ALL LIGHTED STANDARDS SHALL BE LOCATED ON RAISED PARKING ISLANDS AND NOT ON THE PARKING SURFACE. [COMPLIES]

(19) ALL ARTIFICIAL LIGHTING USED TO ILLUMINATE ANY PARKING SPACE OR SPACES SHALL BE SO ARRANGED THAT NO DIRECT RAYS FROM SUCH LIGHTING SHALL FALL UPON ANY NEIGHBORING PROPERTY OR STREETS, NOR SHALL ANY HIGH-BRIGHTNESS SURFACE OF THE LUMINAIRE BE VISIBLE FROM NEIGHBORING RESIDENTIAL PROPERTIES OR FROM A PUBLIC STREET. [COMPLIES]

ZONING
280-156 ACCESS AND HIGHWAY FRONTAGE

E. ALL OUTSIDE LIGHTING, INCLUDING SIGN LIGHTING, SHALL BE DIRECTED IN SUCH A WAY AS NOT TO CREATE A NUISANCE IN ANY AGRICULTURAL, INSTITUTIONAL OR RESIDENTIAL DISTRICT, AND IN EVERY DISTRICT ALL SUCH LIGHTING SHALL BE ARRANGED SO AS TO PROTECT THE STREET OR HIGHWAY AND ADJOINING PROPERTY FROM DIRECT GLARE OR HAZARDOUS INTERFERENCE OF ANY KIND. ANY LUMINAIRE SHALL BE EQUIPPED WITH SOME TYPE OF GLARE SHIELDING DEVICE APPROVED BY THE TOWNSHIP ENGINEER. THE HEIGHT OF ANY LUMINAIRE SHALL NOT EXCEED 25 FEET. [COMPLIES]

GENERAL LIGHTING NOTES

- THIS PLAN IS TO BE UTILIZED FOR LIGHTING PURPOSES ONLY. ELECTRICAL ENGINEERING, INCLUDING, BUT NOT LIMITED TO, CIRCUITRY, CONDUIT, WIRING, AND ASSOCIATED SPECIFICATIONS, IS NOT WITHIN THE SCOPE OF THIS DOCUMENT.
- THIS PLAN WAS PREPARED BY:
RED LEONARD ASSOCIATES
1340 KEMPER MEADOW DR
FOREST PARK, OH 45620
PH: 513-574-9500
DRAWING NO. RL-5550-S1-R2
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE PROJECT ENGINEER (BOHLER) FOR REVIEW AND APPROVAL. SUBSTITUTION REQUESTS MUST BE ACCOMPANIED BY A HORIZONTAL PHOTOMETRIC STUDY DEMONSTRATING THAT THE FIXTURE(S) IN QUESTION WILL MEET THE DESIGN INTENT OF THIS PLAN. SUBSTITUTION REQUESTS WITHOUT A PHOTOMETRIC STUDY WILL BE REJECTED.
- THIS LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER(S). 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.
- 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. THE VALUES DEPICTED ON THIS PLAN ARE IN FOOT-CANDELS.
- THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT NOT BE LIMITED TO, FREQUENT VISUAL INSPECTIONS, CLEANING OF LENSES, AND RELAMPING ACCORDING TO MANUFACTURER RECOMMENDATIONS. FAILURE TO FOLLOW THE ABOVE STEPS COULD CAUSE THE LUMINAIRES FUNCTION IMPROPERLY.
- THIS LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, ONLY. POWER SYSTEM, CONDUITS, WIRING, VOLTAGES AND OTHER ELECTRICAL COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT, MEP AND/OR LIGHTING CONTRACTOR, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES AND ALL OTHER APPLICABLE RULES, REGULATIONS, LAWS AND STATUTES.
- CONTRACTOR MUST BRING TO THE DESIGNER'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES.
- 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 ALL GOVERNMENTAL RULES, LAWS, ORDINANCES, REGULATIONS AND THE LIKE.
- UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL OF ITS COMPONENTS AND RELATED SYSTEMS, TO ENSURE ADEQUATE LIGHTING LEVELS ARE PRESENT AND FUNCTIONING AT ALL TIMES.

REVISIONS

REV	DATE	COMMENT	BY

CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL

PAI
POCS SERIAL NUMBER
1-800-242-1776

NOT APPROVED FOR CONSTRUCTION

PROJECT NO.: PC181016
DRAWN BY: MCM
CHECKED BY: EAB
DATE: 2018.07.13
SCALE: AS NOTED
CAD ID.: PC181016 LIGHT-1

PRELIMINARY LAND DEVELOPMENT PLANS
FOR
WAYNE PROPERTY ACQUISITION INC.

ROUTE 30 (LANCASTER AVE) & ABERDEEN AVE
RADNOR TOWNSHIP
DELAWARE COUNTY, PA

BOHLER ENGINEERING
1600 MANOR DRIVE, SUITE 200
CHALFONT, PENNSYLVANIA 18914
Phone: (215) 996-9100
Fax: (215) 996-9102
www.BohlerEngineering.com

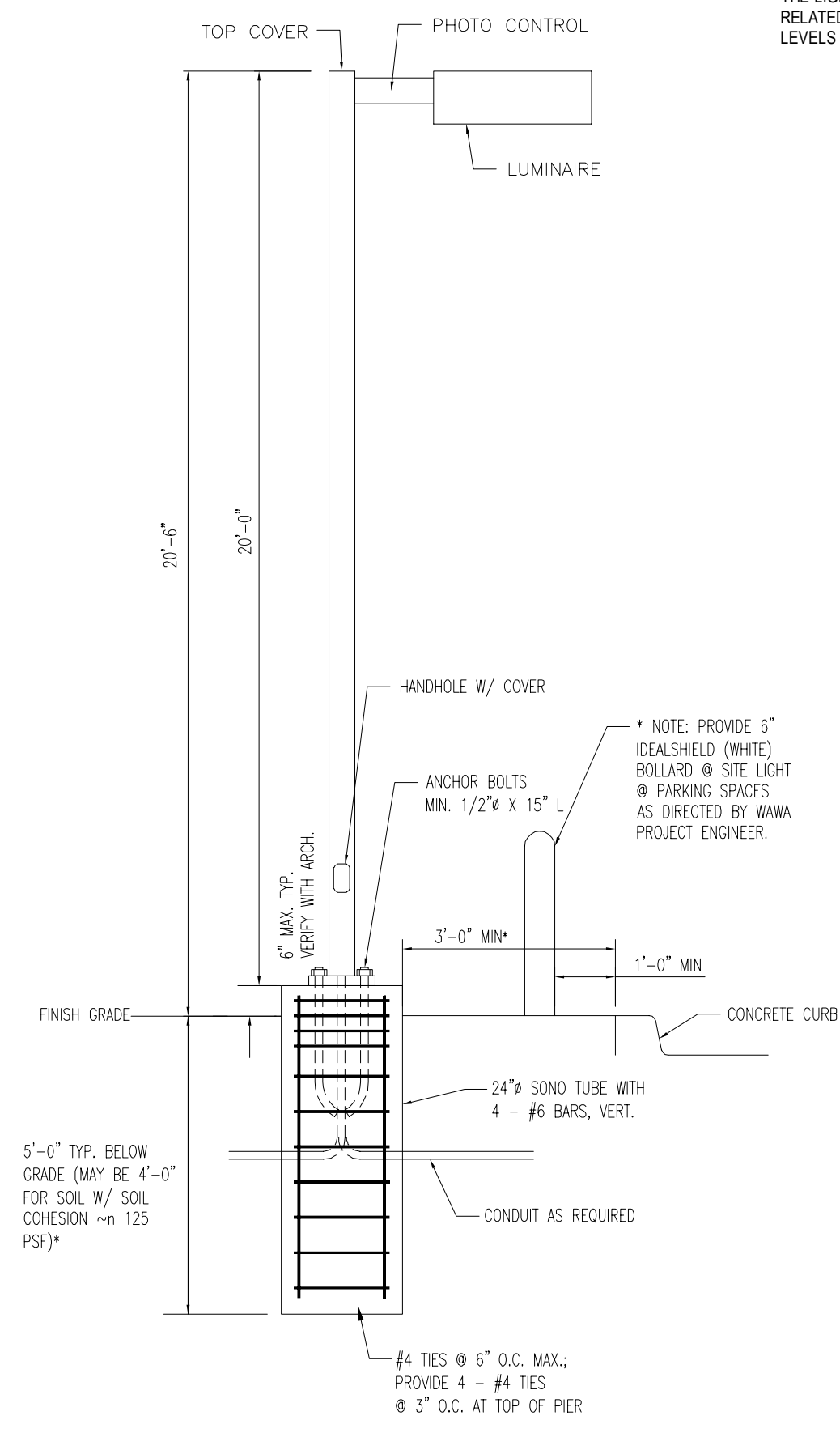
D.T. NORTH
REGISTERED LANDSCAPE ARCHITECT
PENNSYLVANIA LICENSE NO. LA007029

LUMINAIRE SCHEDULE

LABEL	QTY	MOUNTING HEIGHT	ARRANGEMENT	LUMENS	LLF	BUG RATING	MANUFACTURER	DESCRIPTION
A4	1	20'-6" AFG	SINGLE	8891	1.030	B1-U0-G2	CREE, INC.	ARE-EDG-3MB-DA-06-E-UL-WH-700-5TK
A9	3	17'-6" AFG	SINGLE	2542	1.030	B0-U0-G1	CREE, INC.	ARE-EDG-3MB-DA-02-E-UL-WH-525-5TK
B6	5	20'-6" AFG	SINGLE	5460	1.030	B1-U0-G2	CREE, INC.	ARE-EDG-4MB-DA-04-E-UL-WH-525-5TK
B8	1	17'-6" AFG	SINGLE	3220	1.030	B1-U0-G1	CREE, INC.	ARE-EDG-4MB-DA-04-E-UL-WH-350-5TK
C1	18	VARIABLES, SEE PLAN	SINGLE	11912	1.030	B0-U0-G1	CREE, INC.	CAN-3M-3L-R0-36-E-UL-WH-525-5TK
D1	13	9'-0" AFF	SINGLE	1862	1.030	B0-U0-G2	CREE, INC.	D1-1X86-2L-3K-120V-VRET-SS02CF
S1	2	7'-6" AFF	SINGLE	2011	1.000	B0-U0-G2	SCOTT ARCHITECTURAL LIGHTING	WC1 SCOTT S9131-L23-3K-6S
S2	2	7'-6" AFF	SINGLE	1119	1.000	B0-U4-G1	SCOTT ARCHITECTURAL LIGHTING	WC2 SCOTT S9130-XXX-3K-6S
W1	5	15'-0" AFF	SINGLE	4210	1.030	B1-U0-G1	CREE, INC.	SEC-EDG-3M-WM-04-E-UL-WH-350-5TK
W2	3	15'-0" AFF	SINGLE	3108	1.030	B1-U0-G1	CREE, INC.	SEC-EDG-2M-WM-02-E-UL-WH-425-5TK

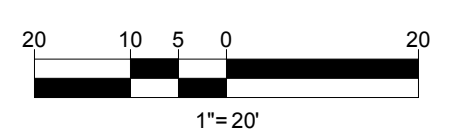
CALCULATION SUMMARY

LABEL	AVG	MAX	MIN	AVGMIN	MAXMIN
CANOPY	28.49	47	11	2.59	4.27
DELIVERY	5.31	5.8	4.7	1.13	1.23
ENTRANCES & EXITS	2.61	5.1	1.4	1.86	3.64
PAVED	2.27	6.7	0.7	3.24	9.57



NOTE: THIS DETAIL IS NOT CERTIFIED. FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO PROVIDE SHOP DRAWINGS CERTIFIED BY STRUCTURAL ENGINEER.

LIGHT POLE WITH STANDARD ANCHORING DETAIL



SHEET TITLE:
LIGHTING PLAN

SHEET NUMBER:
9
OF 19

REVISION 0 - 2018.07.13