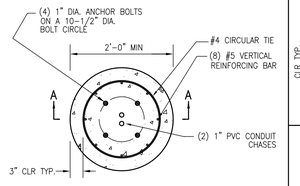
DRWG. NO. 1PCP28607

** – SPECIFY COLOR

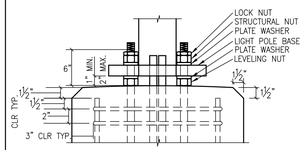
FIXTURE TYPE:	SYMBOL	FIXTURE QUANTITY	CONFIG	QUANTITY	TENON TOP FITTERS	QUANTITY	EPA	MOUNTING HEIGHT	POLE TYPE:	QUANTITY	WIND LOAD	ALLOWED EPA
RSB/RCS-320PSMH-**-4-MT-HSS	←□	13	SGL	7	TTF-10	7	2.10	21'	SSP-4118-GL-**-TT (4")	10	90mph	13.8
			DBL90	1	TTF-29	1	3.10					
			DBL180	2	TTF-28	2	4.20					

* PROJECT WIND LOAD CRITERIA BASED ON:
ASCE 7-10 WIND SPEEDS (3-SEC PEAK GUST MPH)
50 YEAR MEAN RECURRENCE INTERVAL

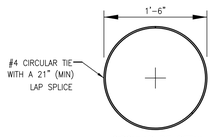
THIS LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRES MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.



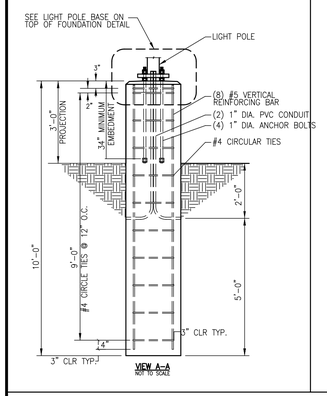
POLE BASE – PLAN VIEW
NOT TO SCALE



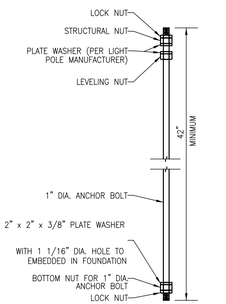
LIGHT POLE BASE ON TOP OF FOUNDATION
NOT TO SCALE



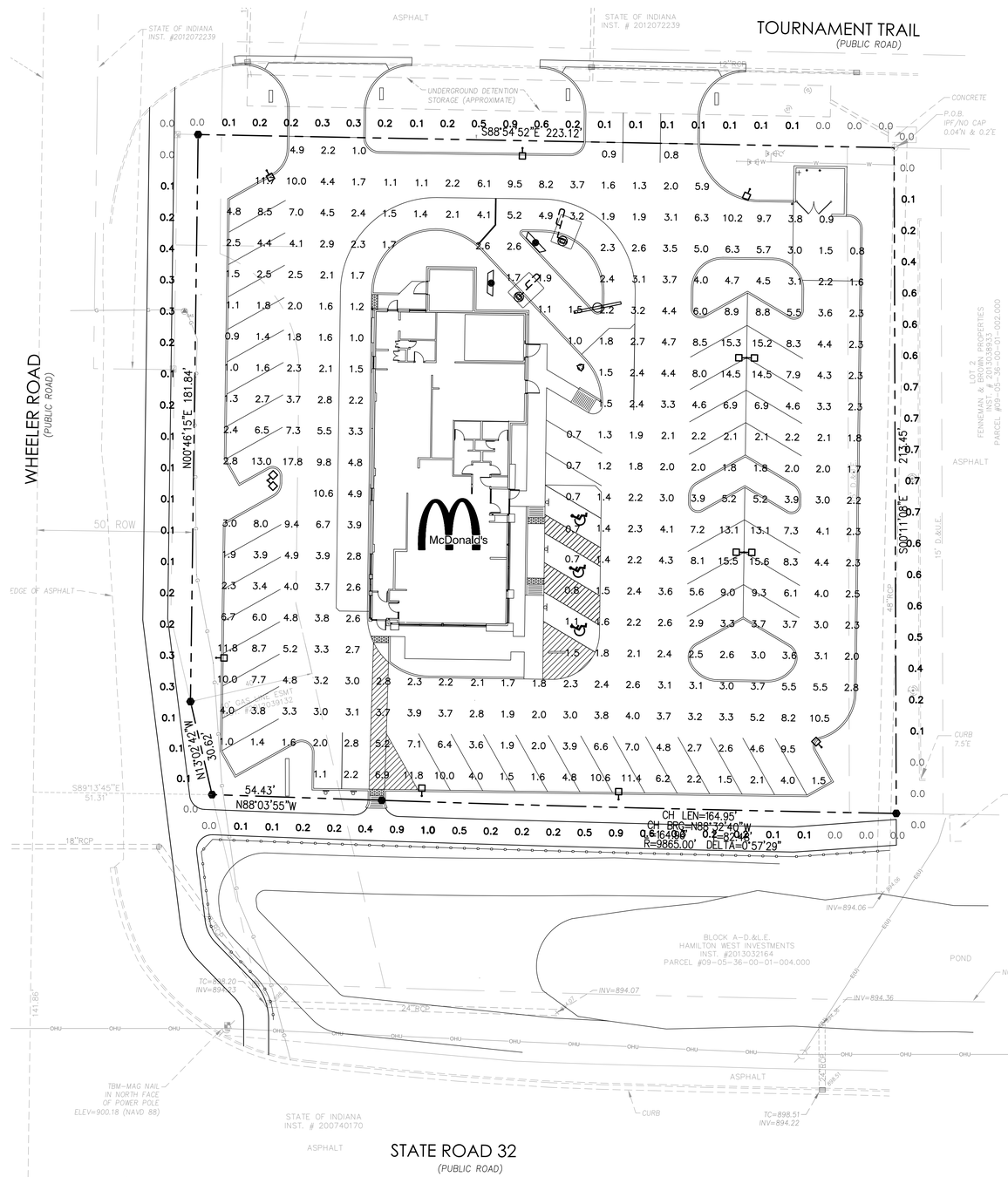
CIRCULAR TIE DETAIL
NOT TO SCALE



VIEW A-A
NOT TO SCALE



ANCHOR BOLT DETAIL
NOT TO SCALE



NOTES:

1. THE FOOTCANDLE LEVELS AS SHOWN ARE BASED ON THE FOLLOWING CRITERIA. ANY SUBSTITUTIONS IN SPECIFIED FIXTURES OR CHANGES TO LAYOUT WILL AFFECT LIGHTING LEVELS SHOWN AND WILL NOT BE THE RESPONSIBILITY OF SECURITY LIGHTING.
2. THE CONTRIBUTION OF THE SOFFIT / BUILDING LIGHTING IS NOT REFLECTED ON THE DRAWING UNLESS SOFFIT / BUILDING LIGHTING IS SPECIFIED IN THE FIXTURE SCHEDULE BELOW.
3. DISTANCE BETWEEN READINGS 10'
4. FINAL ADJUSTMENTS TO AIMING ANGLE/DIRECTION OF FIXTURES MAY BE REQUIRED TO ELIMINATE LIGHT TRESPASS OR GLARE ONTO ADJOINING PROPERTIES OR ROADWAYS.
5. FOOTCANDLE LEVELS SHOWN ARE MAINTAINED. MAINTENANCE FACTOR USED ON THIS DRAWING IS 0.75

PAVED SURFACE READINGS

Average	4.1
Maximum	20.0
Minimum	0.6
Avg:Min	6.77
Max:Min	33.33

PROPERTY LINE READINGS

Average	0.3
Maximum	1.0
Minimum	0.0

DESIGN CRITERIA:
AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS, FIFTH EDITION, 2009

FOUNDATION DESIGN PARAMETERS
1. MAXIMUM LIGHT POLE BASE REACTIONS:
   BASE MOMENT = 16,845 lbs-ft
   BASE SHEAR = 978 lbs
2. MAXIMUM WIND SPEED (3 SECOND GUST) = 120 MPH
3. MINIMUM REQUIRED SOIL PARAMETERS:
   COHESIVE SOILS:
   -SHEAR STRENGTH = 750 lbs/ft²
   -6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
   COHESIONLESS SOILS:
   -ANGLE OF INTERNAL FRICTION = 27 DEGREES
   -WATER TABLE SHALL BE LOCATED BELOW THE BOTTOM OF THE FOUNDATION
   -6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
4. THE SOILS REPORT SHALL BE REVIEWED BY THE ENGINEER OF RECORD TO CONFIRM THAT
   THE MINIMUM SOIL PARAMETERS ARE MET OR EXCEEDED BEFORE THIS DESIGN IS USED. IF THE
   MINIMUM SOIL PARAMETERS ARE NOT MET, THIS DESIGN SHALL NOT BE USED.
5. THE ENGINEER OF RECORD SHALL REVIEW THE MAXIMUM BASE REACTIONS AND DESIGN WIND
   SPEED FOR THE LIGHT POLE TO BE INSTALLED TO DETERMINE IF THE FOUNDATION'S MAXIMUM
   DESIGN LOADS HAVE NOT BEEN EXCEEDED. THIS FOUNDATION DESIGN SHALL NOT BE USED IF
   THE MAXIMUM DESIGN LOADS OR WIND SPEED HAVE BEEN EXCEEDED.
6. THIS FOUNDATION DESIGN SHALL NOT BE USED IN LOCATIONS WHICH ARE CLOSER THAN 8 ft
   FROM A RETAINING WALL.
7. THIS FOUNDATION DESIGN SHALL NOT BE USED IN LOCATIONS WHERE THE GROUND SLOPE
   EXCEEDS 4 INCHES PER FOOT.

GENERAL NOTES:
1. CONCRETE COMPRESSIVE STRENGTH (f'c) SHALL BE A MINIMUM OF 4000 psi
2. ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 55, HOT DIPPED GALVANIZED PER ASTM F2329
3. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60
4. NUTS SHALL BE HEAVY HEX ASTM A563 GRADE HD, HOT DIPPED PER ASTM A153
5. PLATE SHALL BE ASTM A572 GRADE 50, HOT DIPPED PER ASTM A153
6. LOCK NUT SHALL BE HOT DIPPED PER ASTM A153

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES

NOTES:

SCALE 1" = 20' 0"	DATE	NEXT ASSEMBLY	REF. DRWGS.
DRAWN BY MJW	11/13/13		
CHECKED BY			
APPROVED BY			
APPROVED BY		FINISH	
APPROVED BY			
SHOP ORDER		MATERIAL	
PROJECT NO.			

SECURITY LIGHTING SYSTEMS
Performance Designed Lighting Products
1085 Johnson Dr., Buffalo Grove, Illinois 60089
1-800-544-4840

POINT-BY-POINT FOOTCANDLE PLOT FOR
– McDONALD'S –
124 TOURNAMENT TRAIL
WESTFIELD, IN

DRAWING NUMBER 1PCP28607

REV.	SYMBOL	DATE	DESCRIPTION
1		1-2-14	REVISED PER TECH REVIEW COMMENT

PREPARED FOR
McDonald's USA, LLC

PROJECT NAME
McDONALD'S USA, LLC
INDIANAPOLIS REGION
SITE ID 013-1202

PROJECT LOCATION
945 Tournament Tr
Westfield, IN

PROJECT NUMBER
1347

DRAWN BY
D.KEY

CHECKED

LANDWATER Group Inc.
1414 Franklin Street
Columbus, IN 47201
(812) 342-9703
Fax (812) 342-9726
•FLOOD PLAIN MANAGEMENT •DRAINAGE ENGINEERING •SITE DEVELOPMENT •LAND PLANNING

CERTIFIED
MARTIN S. MANN REGISTERED NO. 920256 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET NAME
SITE LIGHTING PLAN

SHEET NUMBER
C7.0

PLAN DATE
OCTOBER 31, 2013

P:\McDonald's\INDIANA\Westfield\SR 32\2014 Reboild\DWG'S\CONSTRUCTION\1347-C7.0-SLP11.dwg Jan 09, 2014 - 1:23pm