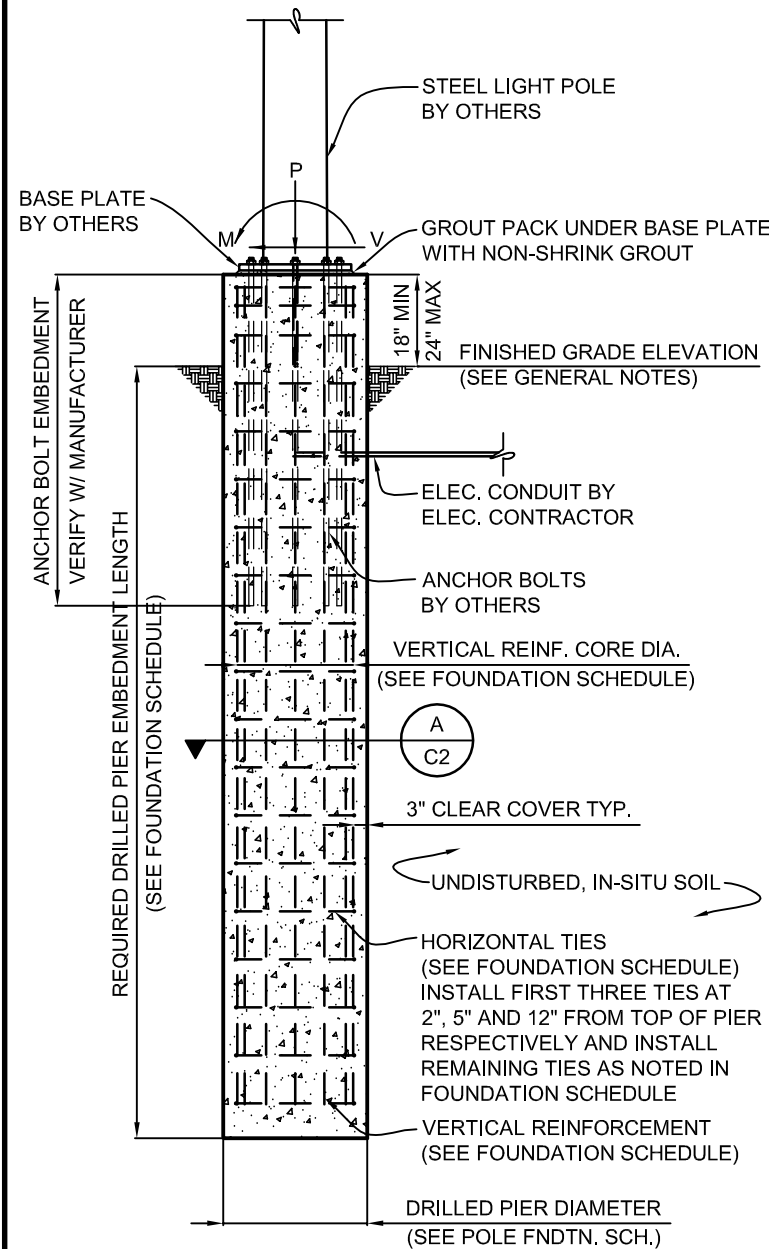


POLES A1, A2, B1, & B2 FOUNDATION SCHEDULE

POLE DESIGNATION	FORCES			DRILLED PIER		REINFORCING		
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS (1.)	DIAMETER INCHES	EMBEDMENT DEPTH	CORE DIAMETER INCH (2.)	VERTICAL REINFORCING	HORIZONTAL TIES
A1, A2	917,719	13,162	18,906	60	33'-0"	53	36 - #8	#4 @ 12"
B1, B2	716,732	11,711	16,524	54	32'-0"	47	30 - #8	#4 @ 12"

1. WEIGHT OF POLE, FIXTURES AND ACCESSORIES.
2. CORE DIAMETER EQUAL TO INSIDE DIAMETER OF TIES.



**POLES A1, A2, B1, & B2
FOUNDATION ELEVATION**
SCALE: NOT TO SCALE

POLE IDENTIFICATION

POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT ²)
A1, A2	110' VALMONT	NA	28 (8+8+8)	75.6
B1	90' VALMONT	NA	34 (9+9+8+8)	91.8
B2	90' VALMONT	NA	32 (8+8+8+8)	86.4
C1, D1, D2	LSS90C	7B	15 (5+5+5)	39.0
C2	LSS90C	7B	15 (5+5+5)	40.5

- POLES A1 & A2 EACH HAVE FOUR QUARTZ FIXTURES AT 95'-0", INCLUDED IN EPA.

CONCRETE/REINFORCEMENT NOTES

CONCRETE SHALL COMPLY WITH THE FOLLOWING ASTM STANDARDS: MIXTURE WITH ASTM C-94, PORTLAND CEMENT WITH ASTM C-150 TYPE 1-A, AGGREGATES WITH ASTM C-33 AND BE IN CONFORMANCE WITH ACI 318.

CONCRETE SHALL BE AIR-ENTRAINED (COMPLY WITH ASTM C-260), HAVE A MAXIMUM WATER-CEMENT RATIO, w/cm = 0.43 AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 PSI.

DESIGN SLUMP LIMITS ARE 4" MINIMUM AND 6" MAXIMUM. THE JOB SITE SLUMP MAY BE INCREASED BY THE USE OF A WATER REDUCING AGENT MEETING ASTM C494-92.

CONCRETE REINFORCEMENT SHALL COMPLY WITH ASTM A615 GRADE 60, EXCEPT TIES CAN BE OF GRADE 40 AND BE IN CONFORMANCE WITH ACI 315 & 318.

CONCRETE DRILLED PIERS MUST ATTAIN 3,000 PSI STRENGTH PRIOR TO POLE INSTALLATION AND FIXTURE MOUNTING.

THE TOP 12'-0" SHOULD BE THOROUGHLY CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACEMENT.

INSTALLATION NOTE (POLES C1, C2, D1, & D2):
CONCRETE TO BE PLACED IN A CONTINUOUS POUR OR A COLD JOINT WILL BE ACCEPTABLE AT THE BOTTOM OF THE PRECAST BASE. TWO POUR: WITH THE REINFORCEMENT IN PLACE, THE CONCRETE BELOW THE BOTTOM OF THE PRECAST BASE MAY BE POURED AND ALLOWED TO SET UP FOR APPROXIMATELY FOUR HOURS (CURE LONG ENOUGH TO SUPPORT WEIGHT OF PRECAST BASE). THEN THE PRECAST BASE MAY BE SET IN PLACE AND THE REST OF THE CONCRETE CONCRETE BACKFILL POURED.

DESIGN NOTES

DESIGN PARAMETERS:
WIND: 130 MPH (I = 1.0) PER AASHTO STANDARD, 2009 EDITION (LTS-5).
DESIGN WIND PARAMETERS ARE AS NOTED. ACTUAL WIND SPEED AND EXPOSURE MUST BE VERIFIED FOR THE SITE BY THE PROPER GOVERNING OFFICIAL.

GEOTECHNICAL PARAMETERS:
ALLOWABLE END BEARING SOIL PRESSURE: 2,000 PSF
ALLOWABLE LATERAL SOIL BEARING PRESSURE: 0 PSF/FT (GRADE TO -2'-0");
150 PSF/FT (-2'-0" TO -11'-0"); 0 PSF/FT (-11'-0" TO -18'-0");
150 PSF/FT (-18'-0" TO -35'-0"); 200 PSF/FT (BELOW -35'-0")
IN ACCORDANCE WITH THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE, CHAPTER 18.

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE SOILS AND FOUNDATION REPORT, NO. 1633-12-052 & 1633-12-052-02, PREPARED BY S&ME; CONWAY, SC.

A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. TEMPORARY CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT. CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION OR WHEN THE FREE DROP EXCEEDS 6'-0".

CONTRACTOR MUST BE FAMILIAR WITH THE COMPLETE SOIL INVESTIGATION REPORT AND BORINGS, AND CONTACT THE GEOTECHNICAL FIRM (IF NECESSARY) TO UNDERSTAND THE SOIL CONDITIONS AND THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION OR BRACING DURING PRECAST BASE INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

GENERAL NOTES:
FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION.

A1, A2, B1, & B2: POLES, BASE PLATES, ANCHOR BOLTS, AND FORCES PROVIDED BY POLE MANUFACTURER, VALMONT INDUSTRIES, INC. FIXTURES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.

C1, C2, D1, & D2: POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.

PRELIMINARY

NOT FOR CONSTRUCTION

**COASTAL CAROLINA
BASEBALL LSG
FIELD LIGHTING
CONWAY, SOUTH CAROLINA**

CORPORATE: 100 1st AVE WEST
OSKALOOSA, IA 52577
(800) 825-6020

**STRUCTURAL
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114 NICHOLAS DRIVE
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DRAWING TITLE:
POLE AND FOUNDATION
SCALE: SEE PLAN
NOTES:
SCAN #133433R5

PROJECT NUMBER
133433

DATE
18 JANUARY 2013

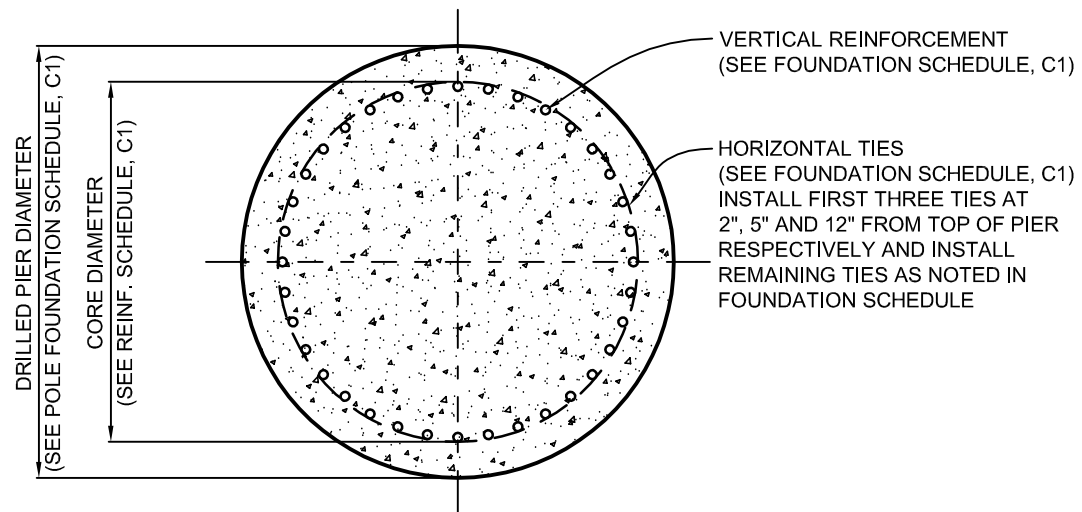
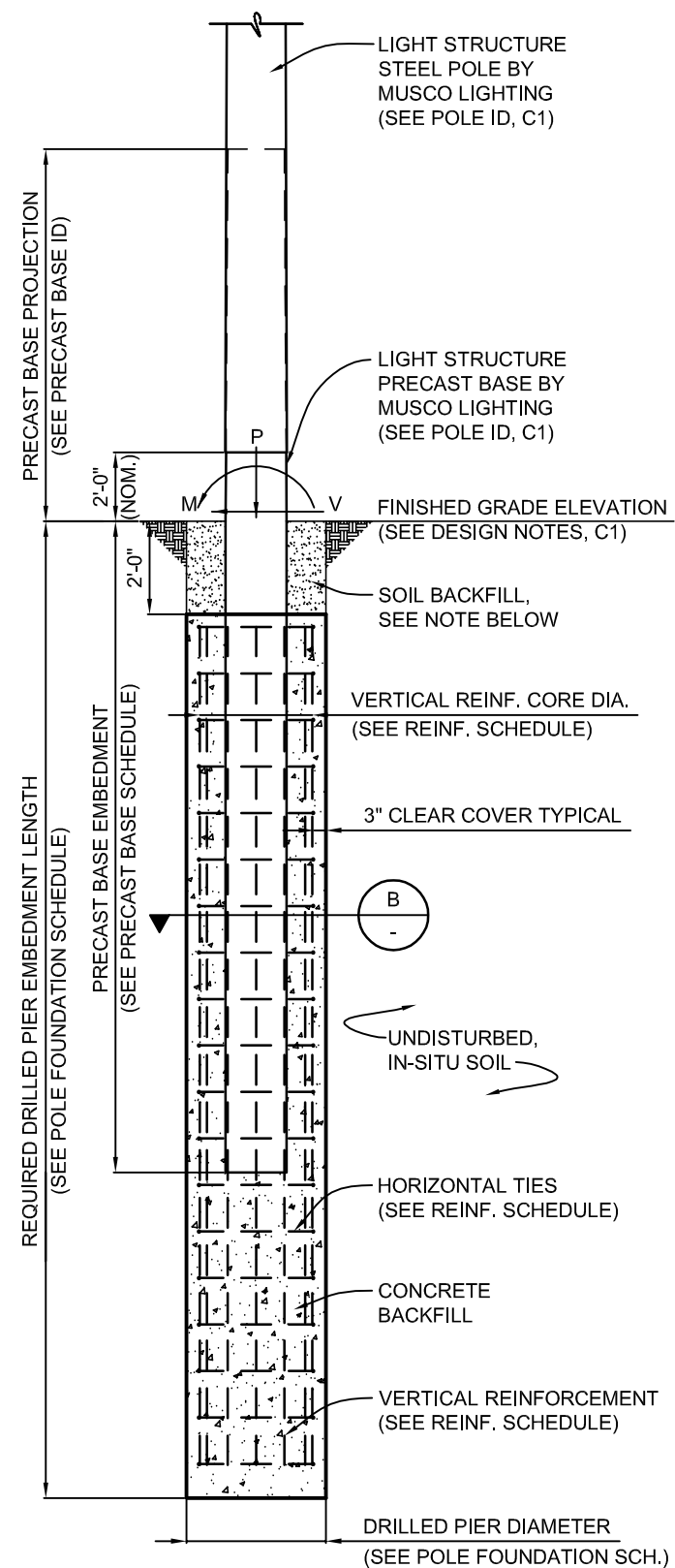
DRAWING NUMBER
C1

OF TWO

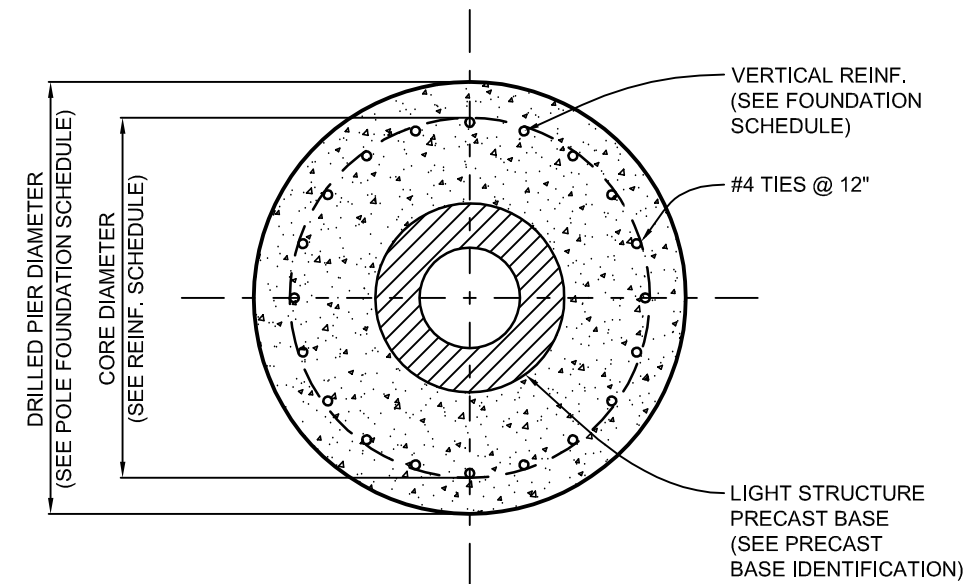
POLES C1, C2, D1, & D2 FOUNDATION SCHEDULE

POLE DESIGNATION	FORCES			DRILLED PIER		REINFORCING		
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS (1.)	DIAMETER INCHES	EMBEDMENT DEPTH	CORE DIAMETER INCH (2.)	VERTICAL REINFORCING	HORIZONTAL TIES
C1, D1, D2	350,604	5,423	6,161	48	28'-0"	41	20 - #8	#4 @ 12"
C2	358,750	5,514	6,161	48	28'-0"	41	20 - #8	#4 @ 12"

1. WEIGHT OF POLE, FIXTURES AND ACCESSORIES.
2. CORE DIAMETER EQUAL TO INSIDE DIAMETER OF TIES.



A PIER DETAIL
SCALE: NOT TO SCALE



B PIER DETAIL
SCALE: NOT TO SCALE

PRECAST BASE IDENTIFICATION

PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
7B	10,160 LBS	27'-10"	7'-10"	20'-0"	23.75"
REFERENCE POLE ID TABLE ON SHEET C1 FOR POLE TO PRECAST BASE TYPES					

PRELIMINARY

NOT FOR CONSTRUCTION

COASTAL CAROLINA
BASEBALL LSG
FIELD LIGHTING
CONWAY, SOUTH CAROLINA

MUSCO
Lighting
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 114 NICHOLAS DRIVE
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DRAWING TITLE:
 POLE AND FOUNDATION
 SCALE: SEE PLAN
 NOTES:
 SCAN #133433R5

PROJECT NUMBER
 133433

DATE
 18 JANUARY 2013

DRAWING NUMBER
C2

OF TWO