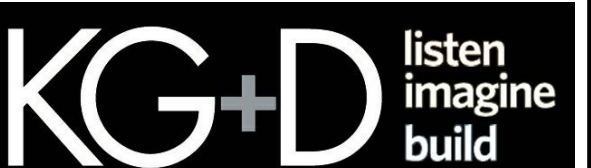


BREWSTER YARDS SPORTS COMPLEX

THE FARM NY REALTY, LLC
27 RADIO CIRCLE DRIVE,
MOUNT KISCO, NY 10549

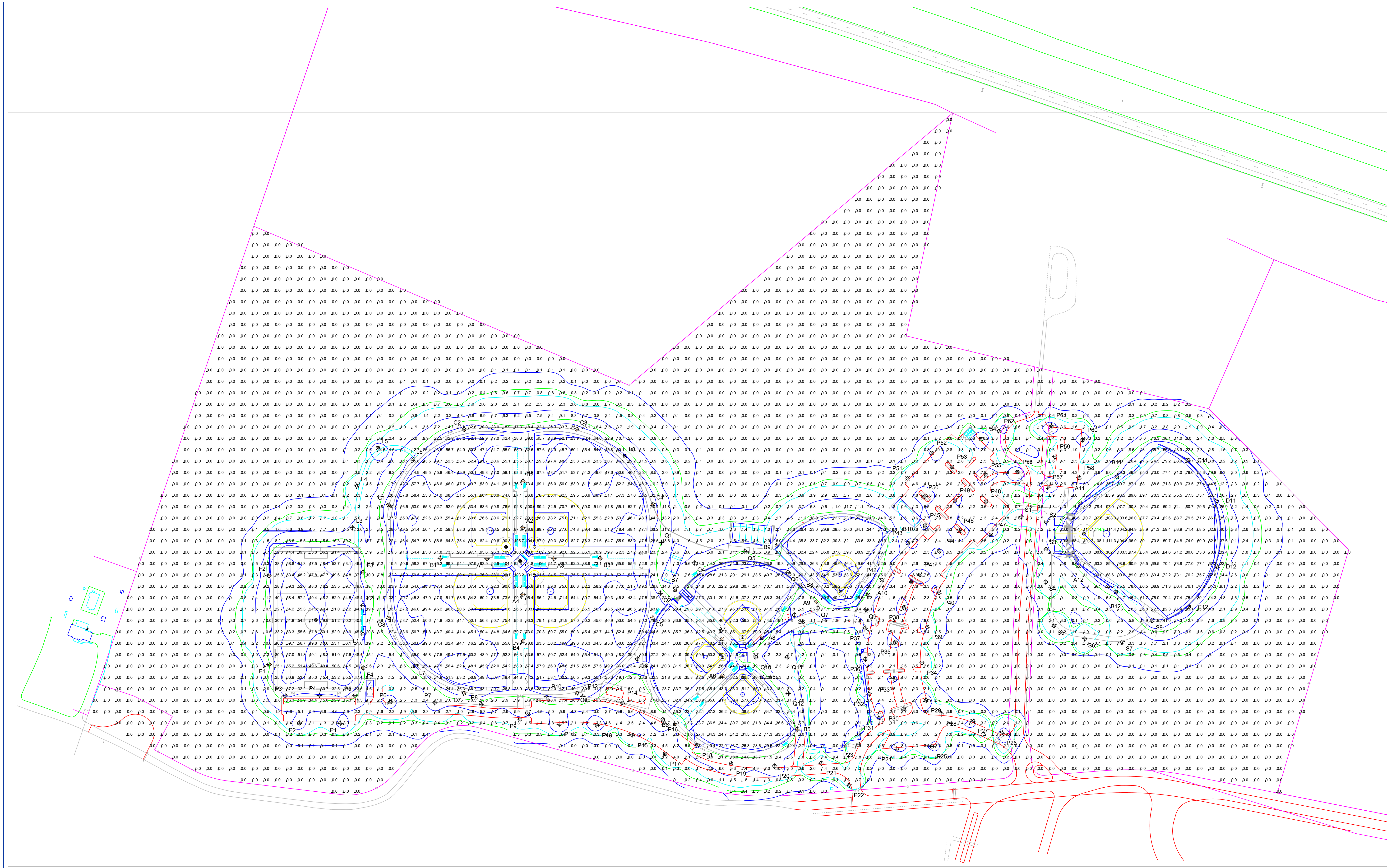


KG+D . ARCHITECTS PC
385 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P:914.666.5900 KGDARCHITECTS.COM



CORPORATE: 100 1st AVE WEST
OSASCOGA, IA 52577
(800) 625-6020

CONSTRUCTION DOCUMENTS



Brewster Yards
Brewster, NY

GRID SUMMARY	
Name:	Blanket Grid
Spacing:	30.0' x 30.0'
Height:	12' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Scan Average:	14.09
Maximum:	115
Minimum:	0
Avg / Min:	11.5
Max / Min:	115
UG (adjacent pt.):	74.88
CU:	0.98
No. of Points:	4051
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O
No. of Luminaires:	545
Avg Load:	134.44 W
Max Load:	522.43 W

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Arrangement Draw Chart and/or the "Musco Control System Summary" for electrical wiring.

Installation Requirements: Results assume ± 3% nominal voltage at the side of the driver and structures located within 3 feet (1m) of design location.

Light level contours are shown at 0.1, 0.5, 1.0, 5.0, 15.0, 25.0 and 50.0 footcandles (FC)

NOTE: Contours shown at 0.1, 0.5, 1.0, 5.0, 15.0, 25.0, and 50.0 footcandles.



ENGINEERED DESIGN By: K.Martin File #207986G - 21-Jul-23

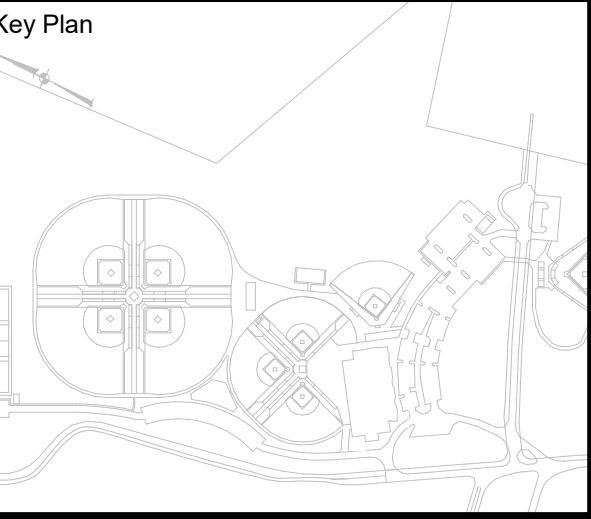
Overall Site Lighting – "Blanket Grid"



We Make It Happen

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ILLUMINATION SUMMARY



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Professional Seal

No.	Date	Issue
1	08/15/23	ISSUE FOR PRICING

SITE LIGHTING LEVELS

Job No.	2020 - 1054	Date	07/21/2023
Scale	1" = 120'	Drawn / Checked	AS/NOTED
Sheet Number	LP-101		

BREWSTER YARDS SPORTS COMPLEX

THE FARM NY REALTY, LLC
27 RADIO CIRCLE DRIVE,
MOUNT KISCO, NY 10549



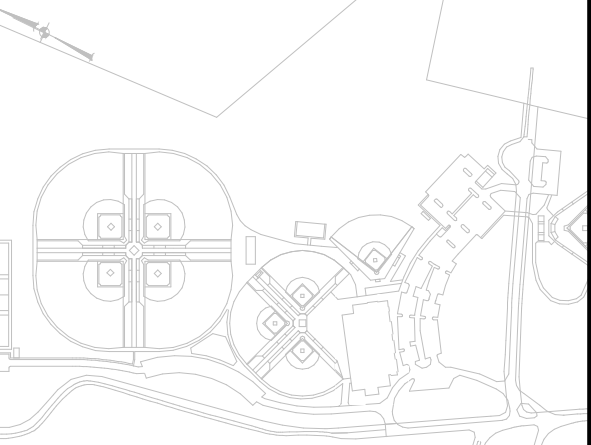
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385 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P:914.666.5900 KGDARCHITECTS.COM



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

CONSTRUCTION DOCUMENTS

Key Plan



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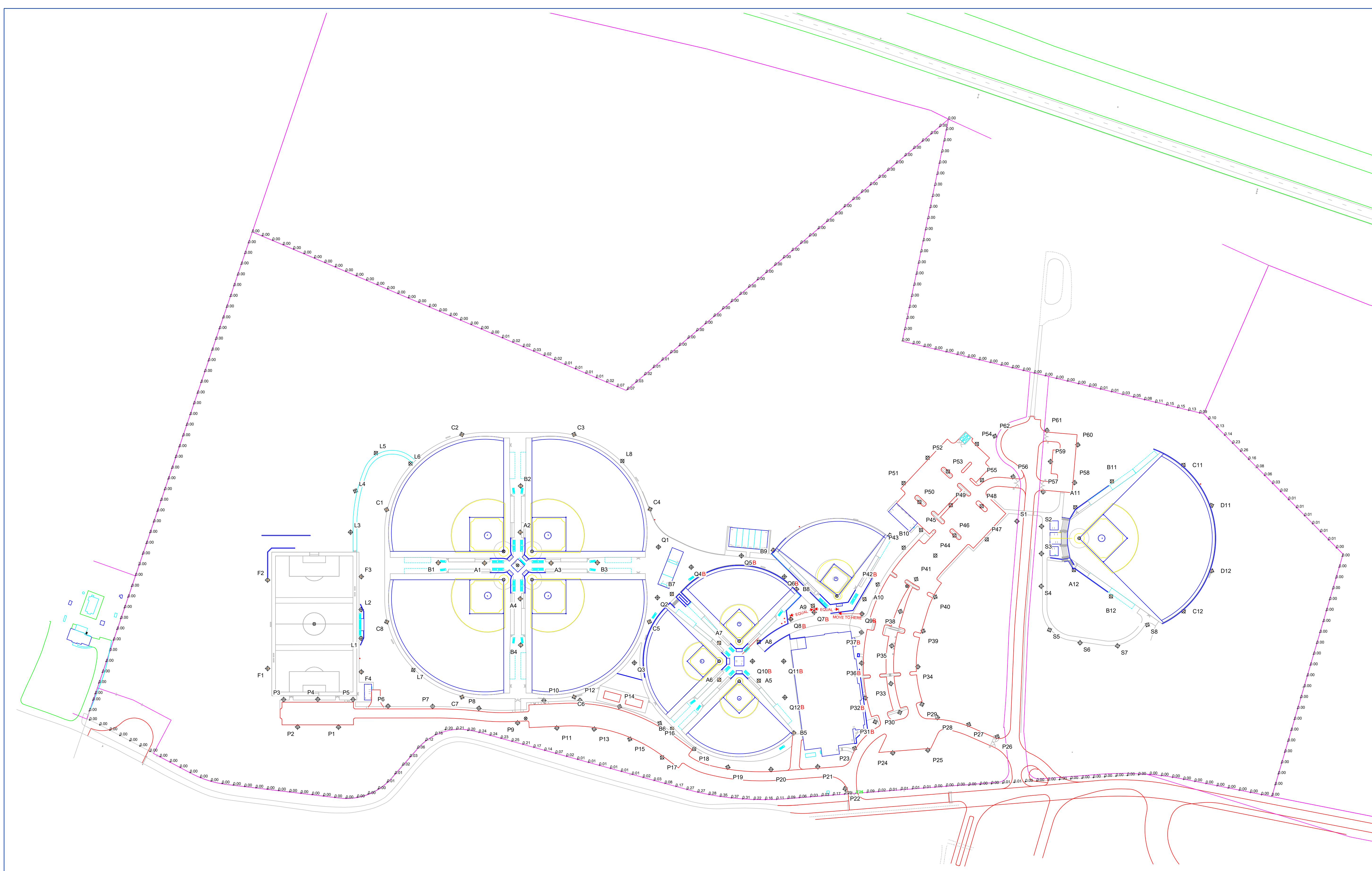
Professional Seal

Date: _____
Issue: _____

11	08/15/23	ISSUE FOR PRICING
No.	Date	Issue

SITE LIGHTING LAYOUT

Job No.	2020 - 1054	Date	07/21/2023
Scale	1" = 120'	Drawn / Checked	AS NOTED
Sheet Number	LP-102		



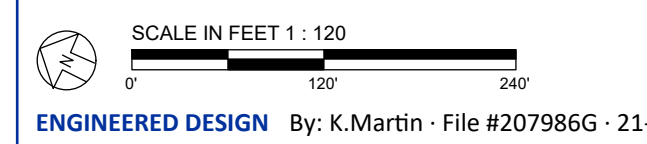
Brewster Yards
Brewster, NY

GRID SUMMARY	
Name:	Property Line Spill
Spacing:	30.0'
Height:	3.0' above grade
ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES:	
Scan Average:	0.0449
Minimum:	3.25
Maximum:	0.00
No. of Points:	315
LUMINAIRE REQUIREMENTS:	
Applied Circuits:	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O
No. of Luminaires:	545
Avg Load:	52.46 W
Max Load:	522.43 W

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.
Field Measurements: Individual field measurements may vary from computer calculated predictions and should be taken in accordance with IESNA RP-6-15.
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.
Installation Requirements: Results assume ± 3% nominal voltage at the side of the driver and structures located within 3 feet (1m) of design locations.

THE FOLLOWING (14) POLES SHALL BE FITTED WITH BANNER ARMS (DENOTED WITH SUFFIX 'B'):
Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, P30, P32, P36, P37, P42

Overall Site Lighting – "Property Line Spill"



ENGINEERED DESIGN By: K.Martin - File #207986G - 21-Jul-23

Pole locations: Ⓢ dimensions are relative to 0.0 reference points: Ⓢ



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ILLUMINATION SUMMARY

POLE IDENTIFICATION				
POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER X&Y)	FIXTURE AND ACCESSORIES EPA (FT ²)
A1, A3	LS570D	5B	13 (5) (0)	30.2
A2, A4	LS570D	5B	12 (5) (0)	28.9
B1, B2, B4	LS580C	6B	26 (8+5) (8+5)	61.3
B3	LS580C	6B	26 (8+5) (8+5)	61.3
C1 - C5, C7, C8	LS570C	4B	11 (4+4)	28.2
C6	LS570C	4B	12 (4+4) (1)	29.1
A5, A8	LS560AA	2B	4 (3)	9.0
A6, A7	LS560B	3B	8 (3) (3)	17.4
B5	LS570B	3B	6 (5)	16.5
B6	LS580B	5B	13 (5+5) (1)	31.6
B7	LS580B	5B	11 (5+4)	28.4
B8	LS570A	3B	5 (4)	13.5
A9, A10	LS570AA	2B	4 (3)	9.9
B9	LS560AA	2B	5 (4)	13.5
B10	LS580A	4B	5 (4)	13.5
A11, A12	LS580B	3B	8 (6)	23.2
B11, B12	LS580C	6B	18 (5+5+5)	47.0
C11	LS580B	5B	9 (6)	25.2
C12	LS570C	4B	9 (6)	24.6
D11, D12	LS580B	5B	10 (7)	28.4
F1, F2	LS570C	4B	8 (4+4)	21.8
F3, F4	LS570C	4B	9 (4+4)	22.6

- POLES C11, D11, & D12 HAVE (3) MUSCO LED FIXTURES AT 31'-0" AGL INCLUDED ABOVE.
- POLE B10 HAS (1) MUSCO LED FIXTURE AT 23'-0" AGL INCLUDED ABOVE.
- POLES A1 - A4, A6, & A7 HAVE (2), A5 & A8 HAVE (1), AND B1 - B4 HAVE (4) MUSCO LED FIXTURES AT 22'-0" AGL INCLUDED ABOVE.
- POLE C12 HAS (3) MUSCO LED FIXTURES AT 21'-0" AGL INCLUDED ABOVE.
- POLE B9 HAS (1) MUSCO LED FIXTURE AT 20'-0" AGL INCLUDED ABOVE.
- POLES C1 - C8, F3, & F4 HAVE (1) CREE OSO FIXTURE AT 18'-0" AGL INCLUDED ABOVE.
- POLE B5 HAS (1) MUSCO LED FIXTURE AT 17'-0" AGL INCLUDED ABOVE.
- POLES A9, A10, & B9 HAVE (1), A11, A12, B6, & B7 HAVE (2), AND B11 & B12 HAVE (3) MUSCO LED FIXTURES AT 15'-0" AGL INCLUDED ABOVE.

PRECAST BASE IDENTIFICATION					
PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
2B	1,690 LBS	17'-3"	7'-3"	10'-0"	12.00"
3B	2,470 LBS	20'-0"	8'-0"	12'-0"	13.38"
4B	3,490 LBS	22'-0"	8'-0"	14'-0"	15.75"
5B	4,580 LBS	23'-11"	7'-11"	16'-0"	18.25"
6B	6,930 LBS	26'-1"	8'-1"	18'-0"	20.56"

DESIGN NOTES

DESIGN PARAMETERS:
WIND: V = 115 MPH, V_{max} = 89 MPH (EXPOSURE C, RISK CATEGORY II) PER 2020 BUILDING CODE OF NEW YORK STATE (ASCE 7-16). DESIGN WIND PARAMETERS ARE AS NOTED, ACTUAL EXPOSURE MUST BE VERIFIED FOR THE SITE BY THE PROPER GOVERNING OFFICIAL.

GEOTECHNICAL PARAMETERS:
ALLOWABLE END BEARING SOIL PRESSURE: 2.0 TSF
ALLOWABLE LATERAL SOIL BEARING PRESSURE: 0.9 TSF (GRADE TO 2'-0") VARIES BELOW 2'-0"
IN ACCORDANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, CHAPTER 18.

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE SOILS AND FOUNDATION REPORT, NO. 018-107-21, PREPARED BY SICLANDS ENGINEERING, SPARTA, NJ.

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 LICENSED 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 9'-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. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H:1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.

CONCRETE/REINFORCEMENT NOTES

CONCRETE SHALL COMPLY WITH THE FOLLOWING ASTM STANDARDS:
MIXTURE WITH ASTM C-84, PORTLAND CEMENT WITH ASTM C-150 TYPE I, AGGREGATES @ 75" MAX 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/c = 0.45 AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,500 PSI (B9, A11, A12), 3,000 PSI (REMAINING POLES).

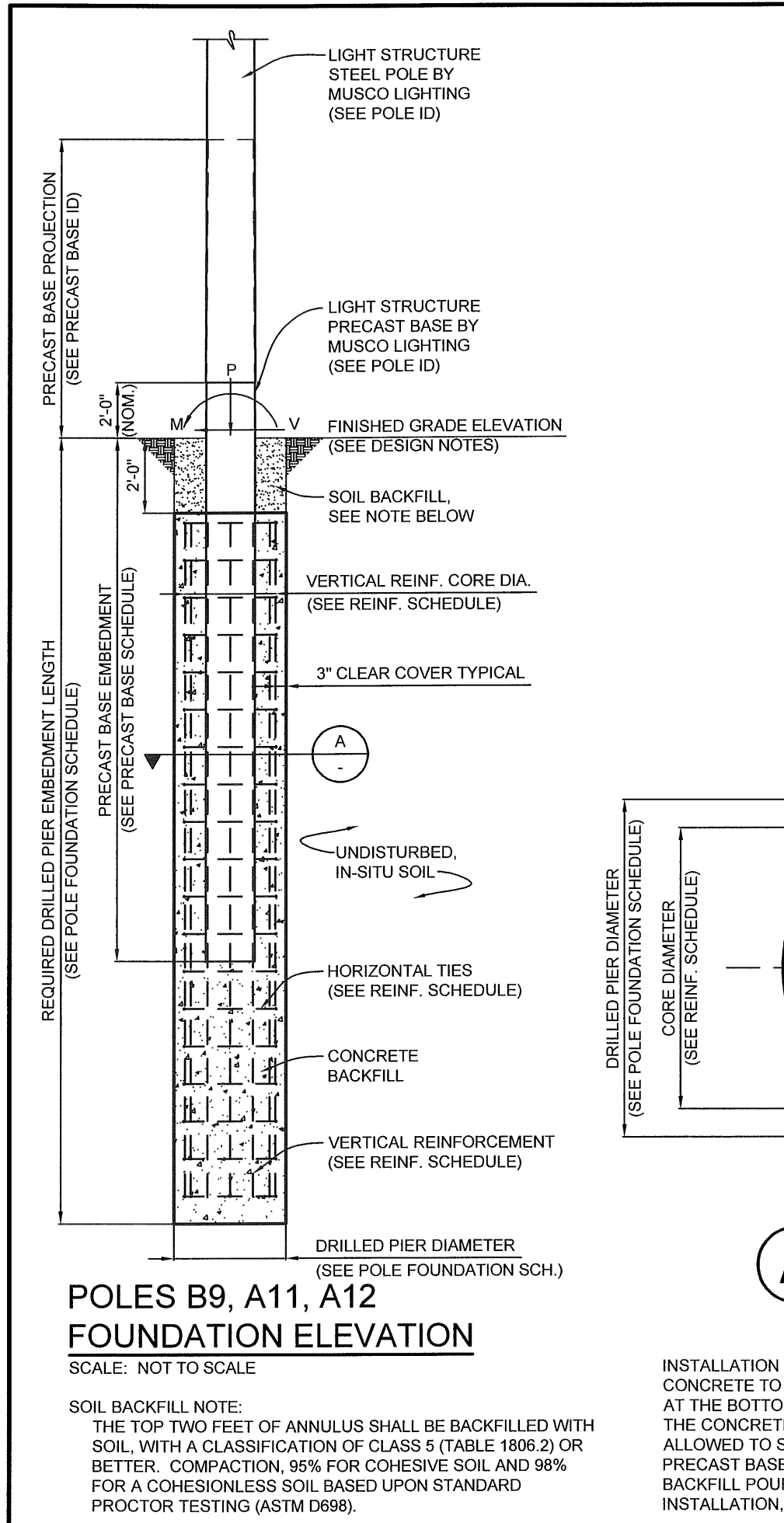
DESIGN SLUMP LIMITS ARE 4" MINIMUM AND 6" MAXIMUM. THE JOB SITE SLUMP MAY BE INCREASED BY THE USE OF A WATER REDUCING AGENT MEETING ASTM C494-92.

REQUIREMENTS FOR B9, A11, A12 ONLY:
CONCRETE REINFORCEMENT SHALL COMPLY WITH ASTM A615 GRADE 60 AND BE IN CONFORMANCE WITH ACI 318 & 318.3.
CONCRETE DRILLED PIERS MUST ATTAIN 3,000 PSI STRENGTH PRIOR TO POLE INSTALLATION AND FIXTURE MOUNTING.
THE DEPTH EQUAL TO THE PRECAST BASE EMBEDMENT SHALL BE THOROUGHLY CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACEMENT.

BREWSTER YARDS SPORTS COMPLEX
FIELD LIGHTING
BREWSTER, NY

STRUCTURAL ENGINEERS, P.C.
14 MARSHALLTOWN DRIVE
MARSHALLTOWN, IOWA 50158
CORPORATE: 515.281.4204
EMAIL: INFO@SEPC282.COM
LIC. NO. 0021-2022-0028

PROJECT NUMBER: 207986
DATE: 21 AUGUST 2023
DRAWING NUMBER: C1
OF THREE



POLE FOUNDATION SCHEDULE - B9, A11, A12

POLE DESIGNATION	FORCES (1)			DRILLED PIER		REINFORCING			
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	DIAMETER INCHES	EMBEDMENT DEPTH (4)	CONCRETE BACKFILL YD ³ (3)	CORE DIAMETER INCH (3)	VERTICAL REINFORCING	HORIZONTAL TIES
B9	41,179	1,023	1,152	36	22'-0"	5.1	29	12 - #6	#4 @ 12"
A11	55,105	1,324	1,760	36	23'-0"	5.7	29	12 - #6	#4 @ 12"
A12	55,105	1,324	1,760	36	23'-0"	5.2	29	12 - #6	#4 @ 12"

1. ASD LOAD COMBINATION D + 0.6W.
VERTICAL FORCES IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT).

2. MINIMUM CONCRETE BACKFILL VOLUME. SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.

3. CORE DIAMETER EQUAL TO INSIDE DIAMETER OF TIES.

4. POTENTIAL FOR ENCOUNTERING ROCK BEFORE REACHING EMBEDMENT DEPTH. ROCK AUGERING EQUIPMENT MAY BE REQUIRED.

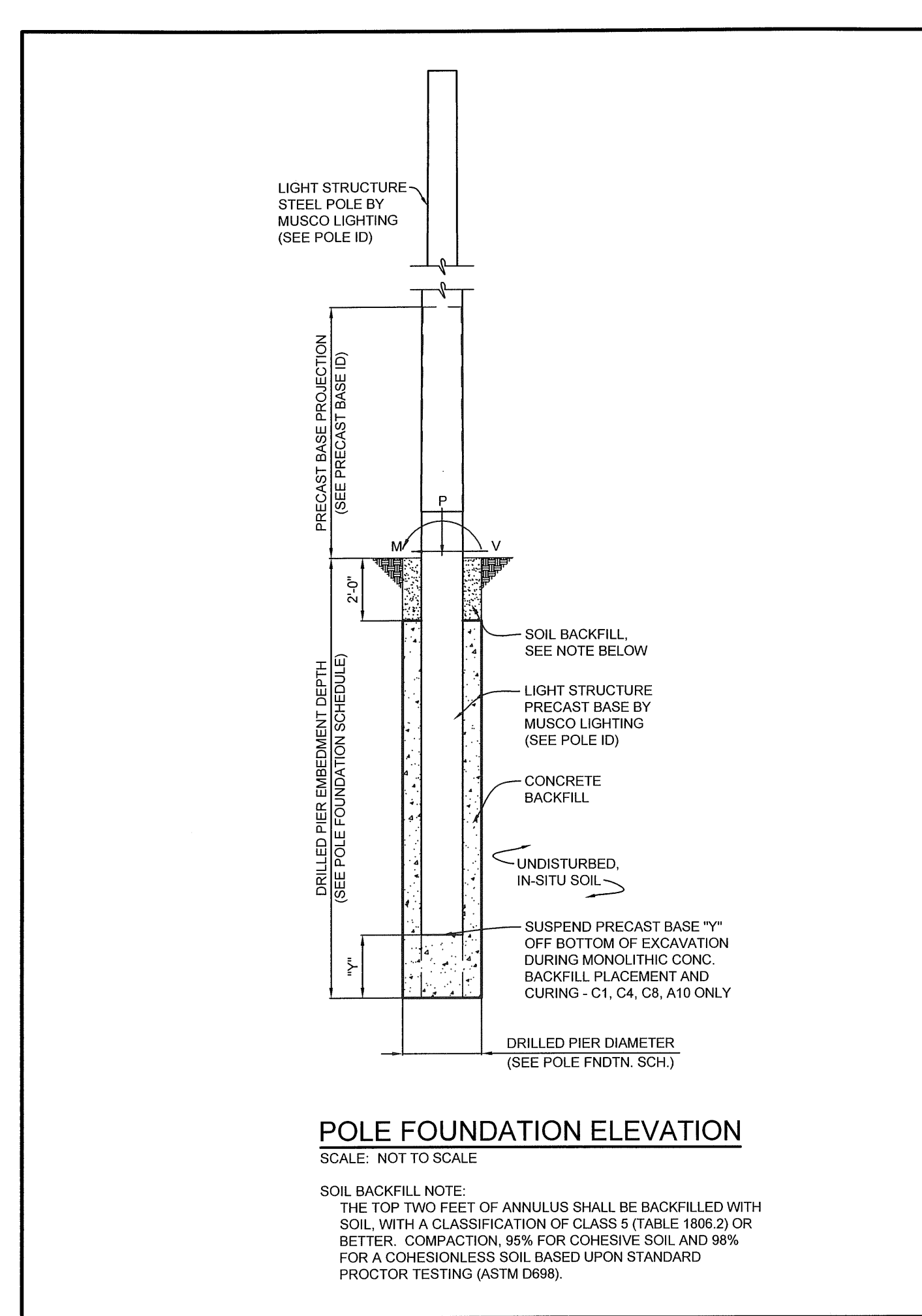
POLES B9, A11, A12 PIER DETAIL
SCALE: NOT TO SCALE

INSTALLATION NOTE (POLES B9, A11, A12 ONLY):
CONCRETE TO BE PLACED IN A CONTINUOUS POUR OR A COLD JOINT WILL BE ACCEPTABLE AT THE BOTTOM OF THE PRECAST BASE. TWO HOURS WITH THE REINFORCEMENT IN PLACE, THE CONCRETE BELOW THE BOTTOM OF THE PRECAST BASE MAY BE POURED AND ALLOWED TO SET UP 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. DEPENDING ON THE DEPTH TO GROUND WATER AT THE TIME OF INSTALLATION, THE TWO POUR METHOD UTILIZING A COLD JOINT MAY NOT BE FEASIBLE.

BREWSTER YARDS SPORTS COMPLEX
FIELD LIGHTING
BREWSTER, NY

STRUCTURAL ENGINEERS, P.C.
14 MARSHALLTOWN DRIVE
MARSHALLTOWN, IOWA 50158
CORPORATE: 515.281.4204
EMAIL: INFO@SEPC282.COM
LIC. NO. 0021-2022-0028

PROJECT NUMBER: 207986
DATE: 21 AUGUST 2023
DRAWING NUMBER: C3
OF THREE



POLE FOUNDATION SCHEDULE

POLE DESIGNATION	FORCES (1)			DRILLED PIER			CONCRETE BACKFILL YD ³ (3)
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	DIAMETER INCHES	EMBEDMENT DEPTH (4)	SUSPENSION "Y" (2)	
A1, A3	95,024	2,012	3,551	30	16'-0"	NA	1.7
A2, A4	91,124	1,953	3,389	30	16'-0"	NA	1.7
B1, B2, B4	196,124	3,388	5,436	30	18'-0"	NA	1.6
B3	198,772	3,388	5,436	30	18'-0"	NA	1.6
C1, C4, C8	85,921	1,804	2,527	42	16'-0"	2'-0"	4.4
C2, C3, C5, C7	85,921	1,804	2,527	30	14'-0"	NA	1.6
C6	88,406	1,837	2,577	30	14'-0"	NA	1.6
A5, A8	31,914	898	981	30	10'-0"	NA	1.3
A6, A7	44,548	1,142	1,534	30	12'-0"	NA	1.3
B5	63,144	1,328	1,758	30	12'-0"	NA	1.3
B6	121,650	2,280	3,031	30	16'-0"	NA	1.7
B7	113,189	2,175	3,482	30	16'-0"	NA	1.7
B8	54,019	1,209	1,505	30	12'-0"	NA	1.3
A9	42,678	996	1,236	36	10'-0"	NA	1.9
A10	42,678	996	1,236	30	12'-0"	2'-0"	1.6
B10	74,669	1,540	2,103	36	14'-0"	NA	2.6
B11, B12	157,628	2,883	4,566	30	18'-0"	NA	1.6
C11	102,718	2,052	3,291	42	16'-0"	NA	4.1
C12	76,784	1,683	2,356	30	14'-0"	NA	1.6
D11	111,011	2,156	3,400	42	16'-0"	NA	4.1
D12	111,011	2,155	3,400	30	16'-0"	NA	1.7
F1, F2	80,842	1,695	2,355	42	14'-0"	NA	3.7
F3, F4	81,144	1,681	2,435	30	14'-0"	NA	1.6

1. ASD LOAD COMBINATION D + 0.6W.
VERTICAL FORCES IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT).

2. SUSPEND PRECAST BASE "Y" OFF THE BOTTOM OF THE EXCAVATION DURING MONOLITHIC CONCRETE BACKFILL PLACEMENT AND CURING. NA = NOT APPLICABLE; SUSPENSION NOT REQUIRED.

3. MINIMUM CONCRETE BACKFILL VOLUME. SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.

4. POTENTIAL FOR ENCOUNTERING ROCK BEFORE REACHING EMBEDMENT DEPTH. ROCK AUGERING EQUIPMENT MAY BE REQUIRED.

BREWSTER YARDS SPORTS COMPLEX
FIELD LIGHTING
BREWSTER, NY

STRUCTURAL ENGINEERS, P.C.
14 MARSHALLTOWN DRIVE
MARSHALLTOWN, IOWA 50158
CORPORATE: 515.281.4204
EMAIL: INFO@SEPC282.COM
LIC. NO. 0021-2022-0028

PROJECT NUMBER: 207986
DATE: 21 AUGUST 2023
DRAWING NUMBER: C2
OF THREE

Key Plan

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Professional Seal

No. / Date / Issue

11 / 08/15/23 / ISSUE FOR PRICING

SITE LIGHTING DETAILS 2

Job No. / Date: 2020 - 1054 / 08/21/2023
Scale / Drawn / Checked: AS NOTED / Drawn / AS NOTED
Sheet Number: LP-104

POLE IDENTIFICATION				DESIGN NOTES	
POLE DESIGNATION	POLE TYPE	FIXTURE QUANTITY	FIXTURE AND ACCESSORIES EPA (FT ²)	DESIGN PARAMETERS:	
L1 - L8	16' - VALMONT DS330-400Q160	1	0.74	WIND: V = 115 MPH, V _{max} = 89 MPH (EXPOSURE C, RISK CATEGORY II) PER 2020 BUILDING CODE OF NEW YORK STATE (ASCE 7-16). DESIGN WIND PARAMETERS ARE AS NOTED. ACTUAL EXPOSURE MUST BE VERIFIED FOR THE SITE BY THE PROPER GOVERNING OFFICIAL.	
P1 - P32, P34, P36, P37, P39, P40, P42, P43, P45, P47, P51, P52, P54, P56 - P62	14' - VALMONT DS330-400Q140	1	0.74	GEOTECHNICAL PARAMETERS: ALLOWABLE END BEARING SOIL PRESSURE: 2.0 TSF ALLOWABLE LATERAL SOIL BEARING PRESSURE: 150 PSF/FT IN ACCORDANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, CHAPTER 18.	
P33, P35, P38, P41, P44, P46, P48 - P50, P53, P55	16' - VALMONT DS330-400Q140	2	1.48	DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE SOILS AND FOUNDATION REPORT, NO. G128-1831-21, PREPARED BY SKYLANDS ENGINEERING, SPARTA, NJ.	
Q1 - Q12	14' - VALMONT DS330-400Q140	1	1.67	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.	
S1 - S8	16' - VALMONT DS330-400Q160	1	1.67	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.	

CONCRETE/REINFORCEMENT NOTES

CONCRETE SHALL COMPLY WITH THE FOLLOWING ASTM STANDARDS:
MIXTURE WITH ASTM C304, PORTLAND CEMENT WITH ASTM C-150 TYPE I, AGGREGATES (0.75" MAX) 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 = 0.45 AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,500 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 C494-02.

CONCRETE REINFORCEMENT SHALL COMPLY WITH ASTM A615 GRADE 60 AND BE IN CONFORMANCE WITH ACI 315 & 318.

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

PIER DETAIL
SCALE: NOT TO SCALE

POLE DESIGNATION	FORCES (1)			DRILLED PIER			REINFORCING		
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	DIAMETER INCHES	EMBEDMENT DEPTH	PROJECTION ABOVE GRADE	CORE DIAMETER INCH (2)	VERTICAL REINFORCING	HORIZONTAL TIES
L1 - L8	1,687	216	144	24	0'-0"	0'-0"	17	#5 @ 10"	#4 @ 10"
P1 - P32, P34, P36, P37, P39, P40, P42, P43, P45, P47, P51, P52, P54, P56 - P62	1,388	179	129	24	0'-0"	3'-0"	17	#5 @ 10"	#4 @ 10"
P33, P35, P38, P41, P44, P46, P48 - P50, P53, P55	1,605	202	158	24	0'-0"	3'-0"	17	#5 @ 10"	#4 @ 10"
Q1 - Q12	1,507	189	145	24	0'-0"	0'-0"	17	#5 @ 10"	#4 @ 10"
S1 - S8	2,008	224	160	24	0'-0"	0'-0"	17	#5 @ 10"	#4 @ 10"

1. ASD LOAD COMBINATION D + 0.6W.
2. CORE DIAMETER EQUAL TO INSIDE DIAMETER OF TIES.

P POLE FOUNDATION ELEVATION
SCALE: NOT TO SCALE

L, Q, & S POLE FOUNDATION ELEVATION
SCALE: NOT TO SCALE

BREWSTER YARDS SPORTS COMPLEX

SITE LIGHTING

BREWSTER, NY

STRUCTURAL ENGINEERS, P.C.
114 NICHOLAS DRIVE
MARSHALTON, IOWA 50119
CORPORATE, 100 1st AVE WEST
OSASALOMA, IA 52577
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PROJECT NUMBER: 207986
DATE: 21 AUGUST 2023
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OF TWO

BREWSTER YARDS SPORTS COMPLEX

SITE LIGHTING

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PROJECT NUMBER: 207986
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OF TWO