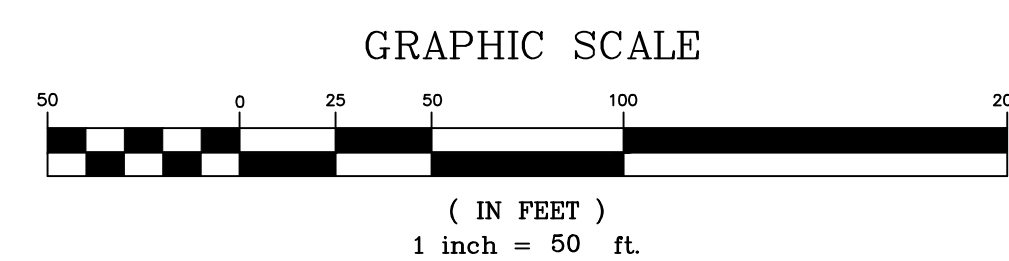




R=61.06'
L=40.017'
(DEED 40.05'W)
CH=544.50' 32.5° 30.5°
CHL=39.359°
L=37.32.59°



- REFERENCES:
1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1155 PLEASANT VALLEY WAY LOT 12 BLOCK 171, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY" PREPARED BY MICHAEL FERROCHMAN P.L.L.C. DATED 4/18/2020.
- CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

3	ELIMINATION OF PHASE IV	01/26/2023	JMP
2	REVISED PER ZONING BOARD ENGINEER'S COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	05/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY

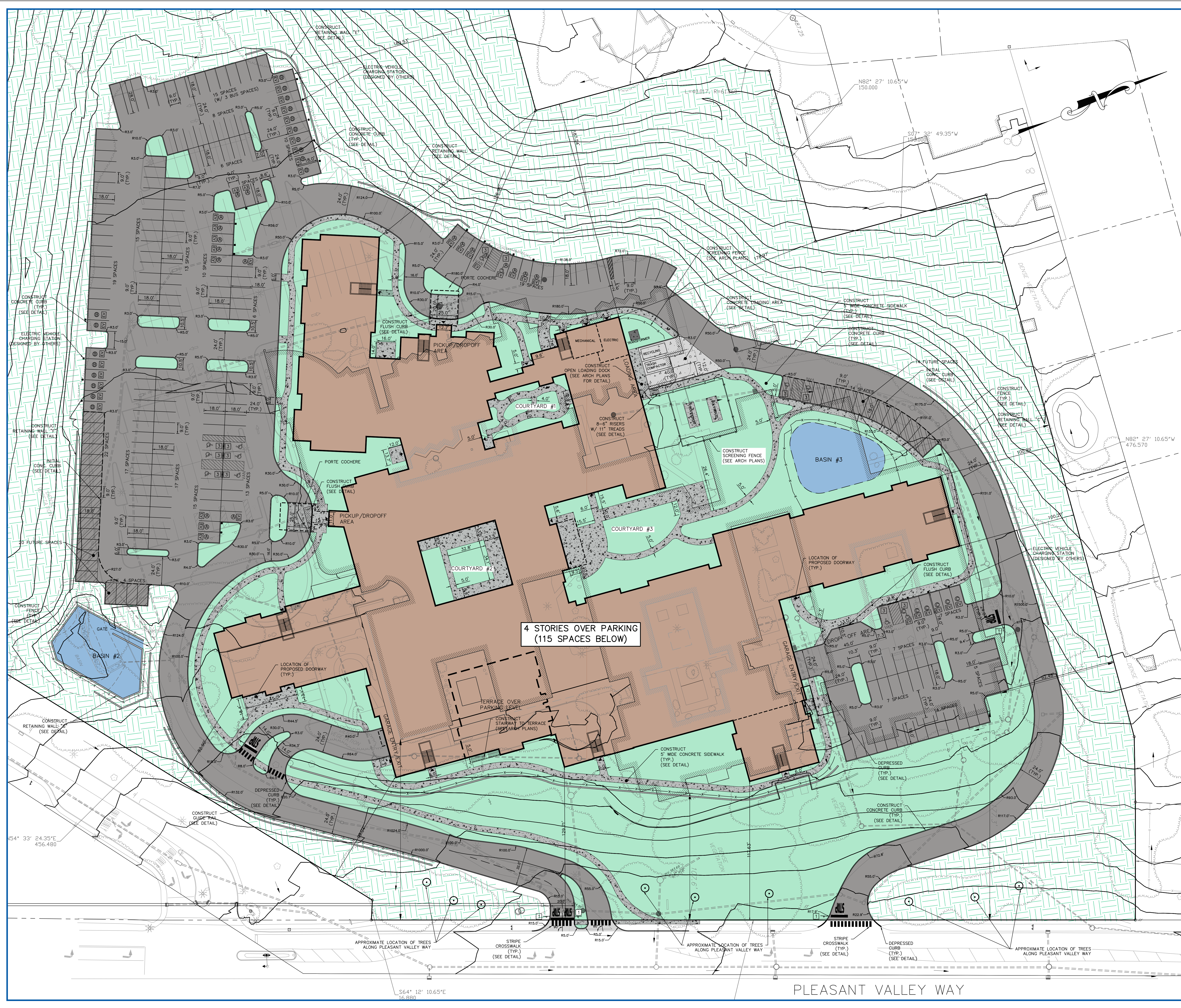
PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

OVERALL LAYOUT SHEET



DESIGNER: JMP
DRAFTSMAN: JMF
CHECKED BY: JMP
PROJECT NO.: 19-265
SCALE: 1"=50'
SHEET: SP-2

J. MICHAEL PETRY-PE,PP,RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36862 DATED 10/09/2021

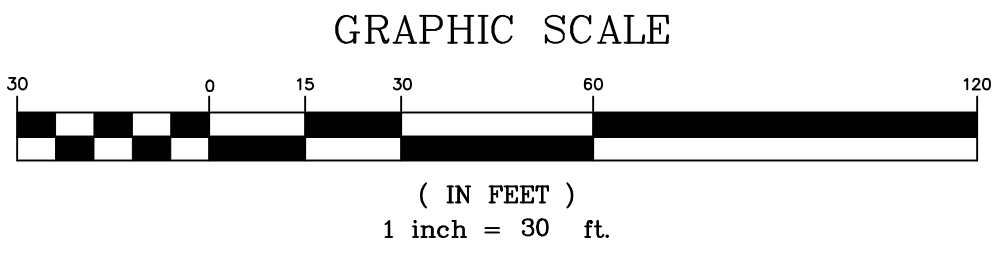


SIGN LEGEND		
1	R1-1	STOP SIGN
3	R7-8 & 8B	HANDICAP PARKING
EV	R7-111	ELECTRIC VEHICLE PARKING

266 SURFACE LEVEL SPACES
(INCLUDES 44 EV SPACES)

- NOTE:
- ELECTRIC VEHICLE PARKING SPACES TO BE CONSTRUCTED AS NEEDED IN ACCORDANCE WITH STATUTE. MINIMUM 1/3 OF THE SPACES SHALL BE CONSTRUCTED WITH THE INITIAL PARKING FOR CONSTRUCTION. WITHIN 3 YEARS OF ISSUANCE OF C.O. AN ADDITIONAL 1/3 OF THE SPACES SHALL BE FUNCTIONAL. WITHIN 6 YEARS THE FINAL 1/3 SHALL BE CONSTRUCTED.
 - ELECTRICAL CONDUITS FOR ALL EV SPACES TO BE INSTALLED BEFORE PAVEMENT IS CONSTRUCTED.
 - COURTYARDS ASSUMED TO BE 50% IMPERVIOUS FOR FLEXIBILITY WITH FINAL WALKWAY LAYOUT.

- EV INSTALLATION SCHEDULE:
- 20 EV STATIONS INSTALLED BEFORE C.O. (20 OUTSIDE)
 - 18 EV STATIONS INSTALLED WITHIN 3 YEARS OF C.O. (18 OUTSIDE)
 - 28 EV STATIONS INSTALLED WITHIN 6 YEARS OF C.O. (6 OUTSIDE + 20 GARAGE)



- REFERENCES:
- BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1155 PLEASANT VALLEY WAY LOT 12 BLOCK 171, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY" PREPARED BY MICHAEL PERSCHMAN P.L.S. DATED 4/18/2020.

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REVISION	DESCRIPTION	DATE	BY
3	ELIMINATION OF PHASE IV	01/26/2023	JMP
2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	09/29/2022	JMP

PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

LAYOUT SHEET



J. MICHAEL PETRY-PE,PP,RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36662 DATED 10/28/2021

Designer: JMP
Draftsman: JMF
Checked By: JMP
Project No.: 19-265
Scale: 1"=30'
Sheet:
SP-3

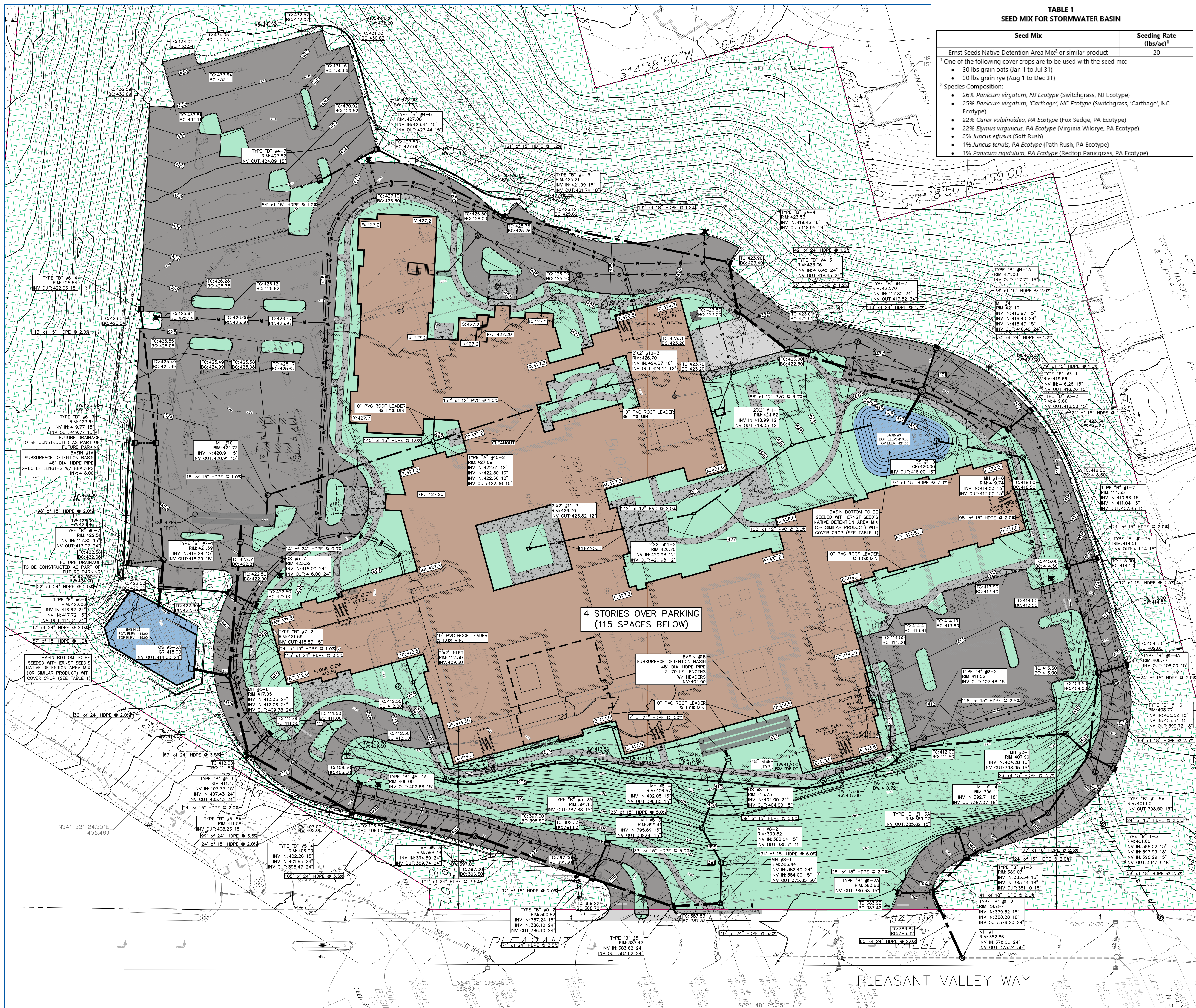


TABLE 1
SEED MIX FOR STORMWATER BASIN

Seed Mix	Seeding Rate (lbs/ac) ¹
Ernst Seeds Native Detention Area Mix ² or similar product	20
¹ One of the following cover crops are to be used with the seed mix:	
• 30 lbs grain oats (Jan 1 to Jul 31)	
• 30 lbs grain rye (Aug 1 to Dec 31)	
² Species Composition:	
• 26% <i>Panicum virgatum</i> , NJ Ecotype (Switchgrass, NJ Ecotype)	
• 25% <i>Panicum virgatum</i> , 'Carthage', NC Ecotype (Switchgrass, 'Carthage', NC Ecotype)	
• 22% <i>Carex vulpinoidea</i> , PA Ecotype (Fox Sedge, PA Ecotype)	
• 22% <i>Elymus virginicus</i> , PA Ecotype (Virginia Wildrye, PA Ecotype)	
• 3% <i>Juncus effusus</i> (Soft Rush)	
• 1% <i>Juncus tenuis</i> , PA Ecotype (Path Rush, PA Ecotype)	
• 1% <i>Panicum rigidulum</i> , PA Ecotype (Redtop Panicgrass, PA Ecotype)	

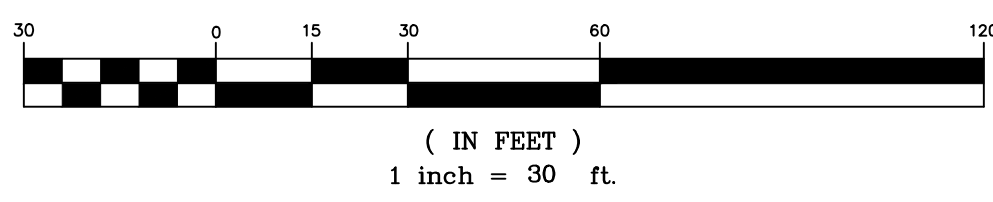
AVERAGE GRADE CALC.

A	414.50
B	414.50
C	414.50
D	414.50
E	413.60
F	413.60
G	414.50
H	417.00
I	420.00
J	427.00
K	427.20
L	427.20
M	427.20
N	427.00
O	424.70
P	426.50
Q	427.20
R	427.20
S	427.20
T	427.20
U	427.20
V	427.20
W	427.20
X	427.20
Y	427.20
Z	427.20
AA	427.20
AB	421.50
AC	412.00
AD	412.50
AVG.	422.29

NOTE:

1. PHASE 1 ROOF LEADERS TO TIE INTO SUBSURFACE BASIN #1A.
2. PHASE 2 & 3 ROOF LEADERS TO TIE INTO SUBSURFACE BASIN #1B.
3. PHASE 1 BUILDING TO INCLUDE 4,492 SF OF GREEN ROOF AREA.
4. PHASE 2 & 3 BUILDING TO INCLUDE 18,366 SF OF GREEN ROOF AREA.

GRAPHIC SCALE



REFERENCES:

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1155 PLEASANT VALLEY WAY LOT 12 BLOCK 171, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY" PREPARED BY MICHAEL PERSCHMAN P.L.S. DATED 4/18/2020.
2. SUPPLEMENTAL UTILITY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "ORIS FINDINGS MAP OF DAUGHTERS OF ISRAEL CAMPUS 1155 PLEASANT VALLEY WAY, WEST ORANGE, NJ" PREPARED BY SCOTT WAPIANO AND DATED 10/06/2021.

CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

5	ELIMINATION OF PHASE IV	01/26/2023	JMP
2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	05/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY

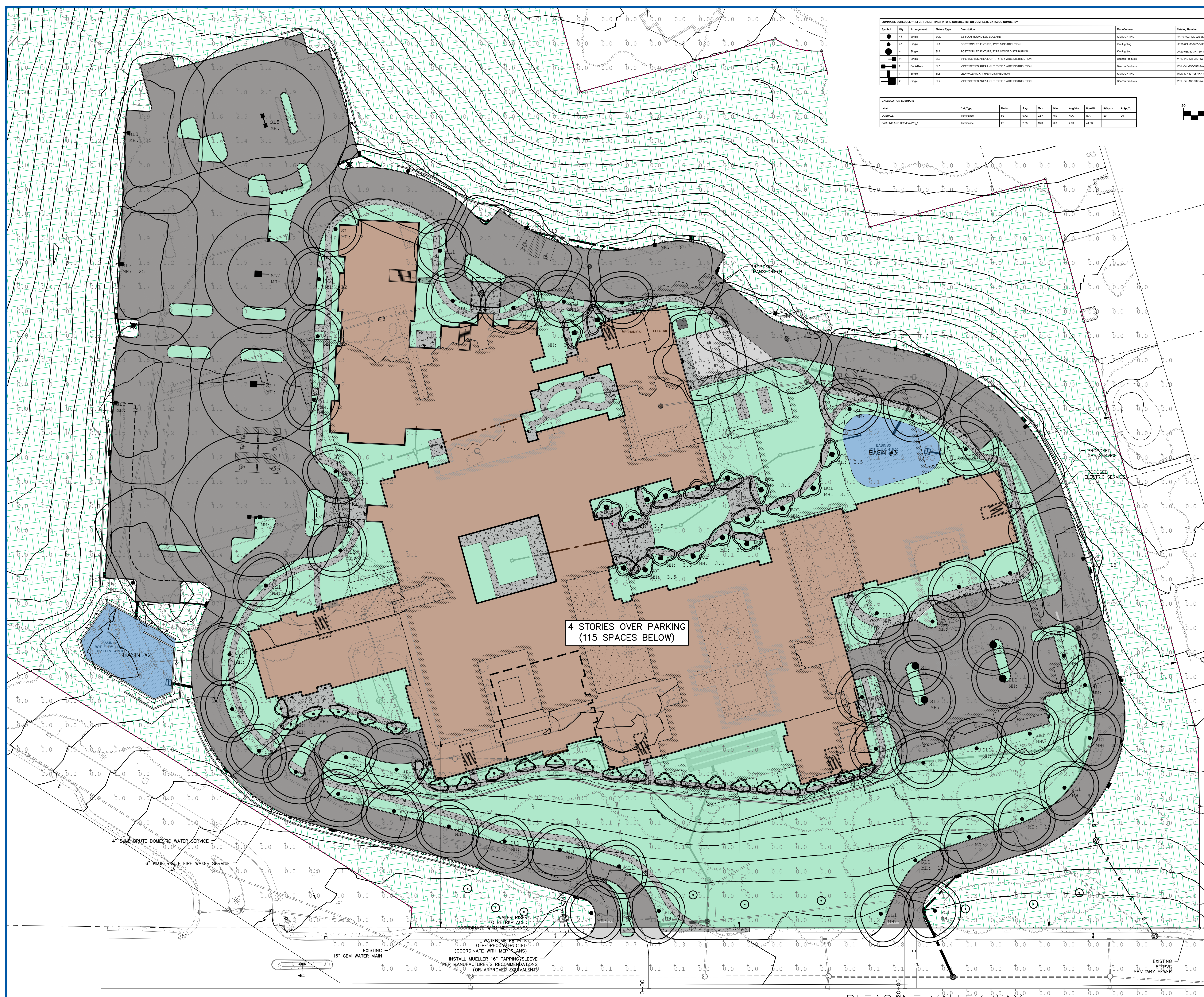
PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

GRADING AND DRAINAGE PLAN



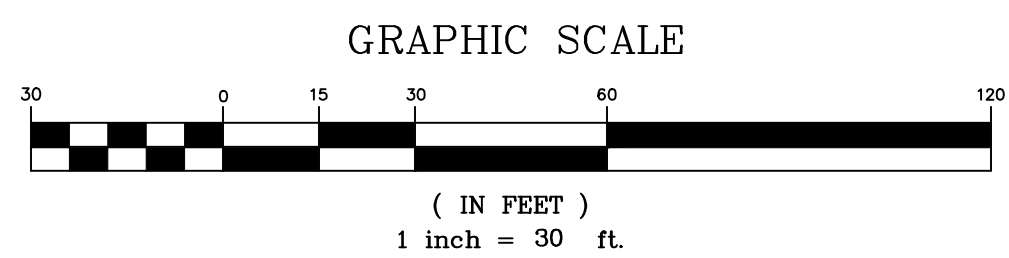
J. MICHAEL PETRY-PE,PP,RA
NJ PROFESSIONAL ENGINEER LIC. NO. 30662 DATED: 10/26/2021

Designer: JMP
Checker: JAF
Checked By: JMP
Project No.: 19-265
Sheet: 11-307
SP-4



LUMINAIRE SCHEDULE "REFER TO LIGHTING FIXTURE OUTLETS FOR COMPLETE CATALOG NUMBERS"									
Symbol	Qty	Arrangement	Fixture Type	Description	Manufacturer	Catalog Number	QCT	L.F.F.	Total Watts
●	43	Single	ROL	3.5 FOOT ROUND LED BOLLARD	KIM LIGHTING	KLTR400-120-020-30T-010	3000K	0.900	21.76
●	47	Single	SL1	POST TOP LED FIXTURE, TYPE 3 DISTRIBUTION	KIM LIGHTING	LPD040L-05-30T-040L-P1-010	3000K	0.900	80
●	4	Single	SL2	POST TOP LED FIXTURE, TYPE 3 WIDE DISTRIBUTION	KIM LIGHTING	LPD040L-05-30T-040L-P1-010	3000K	0.900	80
●	11	Single	SL3	UPPER SERIES AREA LIGHT, TYPE 4 WIDE DISTRIBUTION	Beacon Products	VP-L-64L-120-30T-040-010	3000K	0.900	135
■	2	Back Pack	SL3	UPPER SERIES AREA LIGHT, TYPE 4 WIDE DISTRIBUTION	Beacon Products	VP-L-64L-120-30T-040-010	3000K	0.900	270.2
■	1	Single	SL4	LED WALLPACK, TYPE 4 DISTRIBUTION	KIM LIGHTING	WCP040L-120-04T-01-010	4000K	0.900	104
■	12	Single	SL7	UPPER SERIES AREA LIGHT, TYPE 3 WIDE DISTRIBUTION	Beacon Products	VP-L-64L-120-30T-040-010	3000K	0.900	137.6

CALCULATION SUMMARY									
Label	Calc Type	Units	Avg	Max	Min	Avg/Min	Max/Min	Pfc/Lx	Pfc/Ft
OVERALL	Uniformity	Foot	0.72	22.7	0.0	N/A	N/A	25	20
PARKING AND DRIVEWAYS, 1	Uniformity	Foot	0.36	10.3	0.0	7.63	44.33		



- REFERENCES:
- BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1155 PLEASANT VALLEY WAY LOT 12 BLOCK 171, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY" PREPARED BY MICHAEL FERSCHMAN P.L.S. DATED 4/18/2020.
 - SUPPLEMENTAL UTILITY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "GPS FINDINGS MAP OF DAUGHTERS OF ISRAEL CAMPUS 1155 PLEASANT VALLEY WAY, WEST ORANGE, NJ" PREPARED BY SCOTT VIPIANO AND DATED 10/06/2021.
- LIGHTING NOTES:
- LIGHTING FOR EXISTING FACILITY IS SET ON A DUSK TO DAWN TIMER.
 - THE PROPOSED LIGHTING SHALL BE SET ON A DUSK TO DAWN TIMER.
 - ALL PROPOSED FIXTURES AND THEIR RESPECTIVE POLES SHALL BE BRONZE.
 - ANY DEVIATION FROM THE SPECIFIED LIGHTING FIXTURES SHALL BE SUBMITTED IN WRITING TO PETRY ENGINEERING, LLC ALONG WITH THE ACCOMPANYING POINT BY POINT ANALYSIS.

3	ELIMINATION OF PHASE IV	01/26/2023	JMP
2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDINGS FOOTPRINT	05/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY

PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

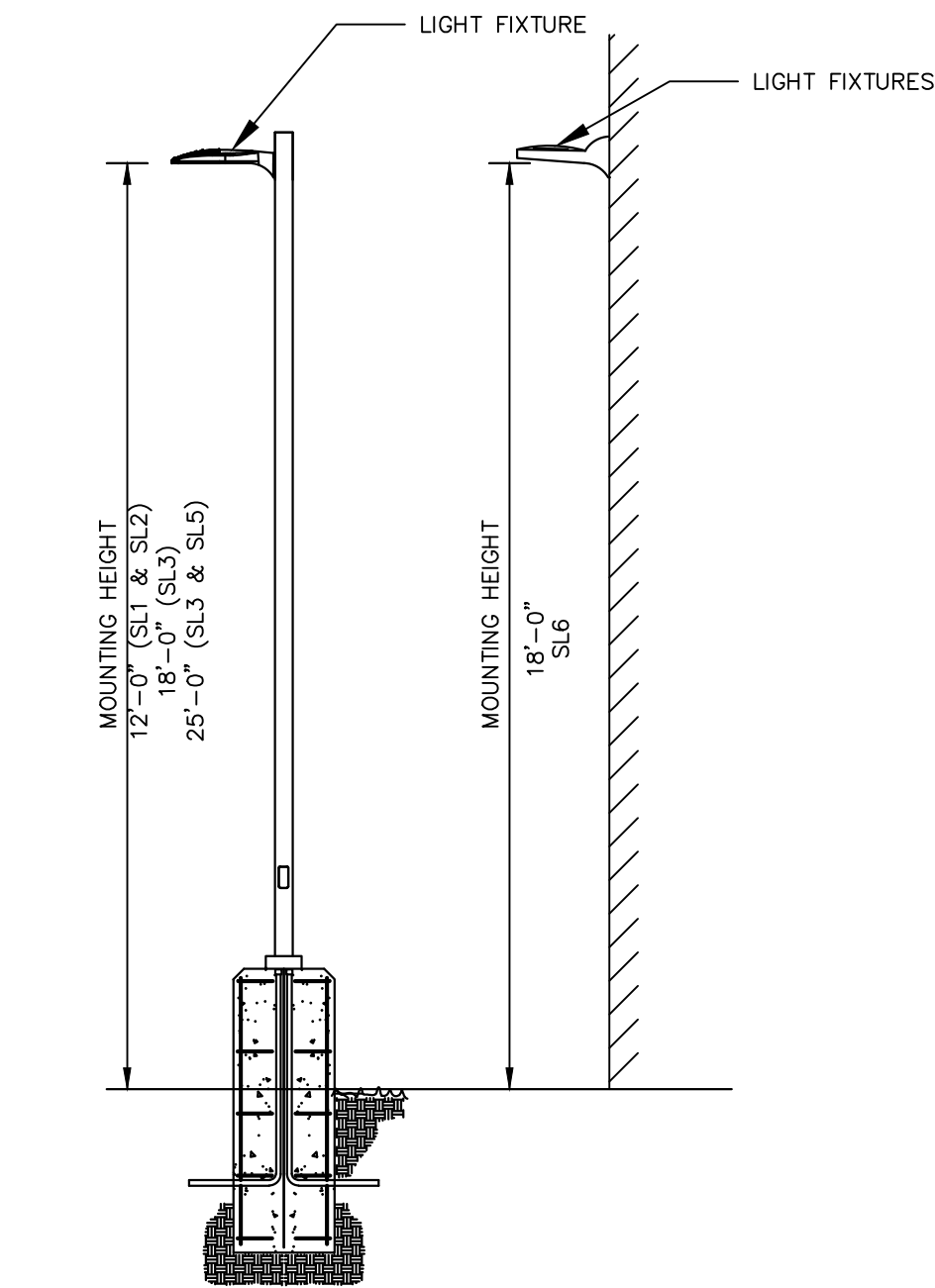
LIGHTING PLAN



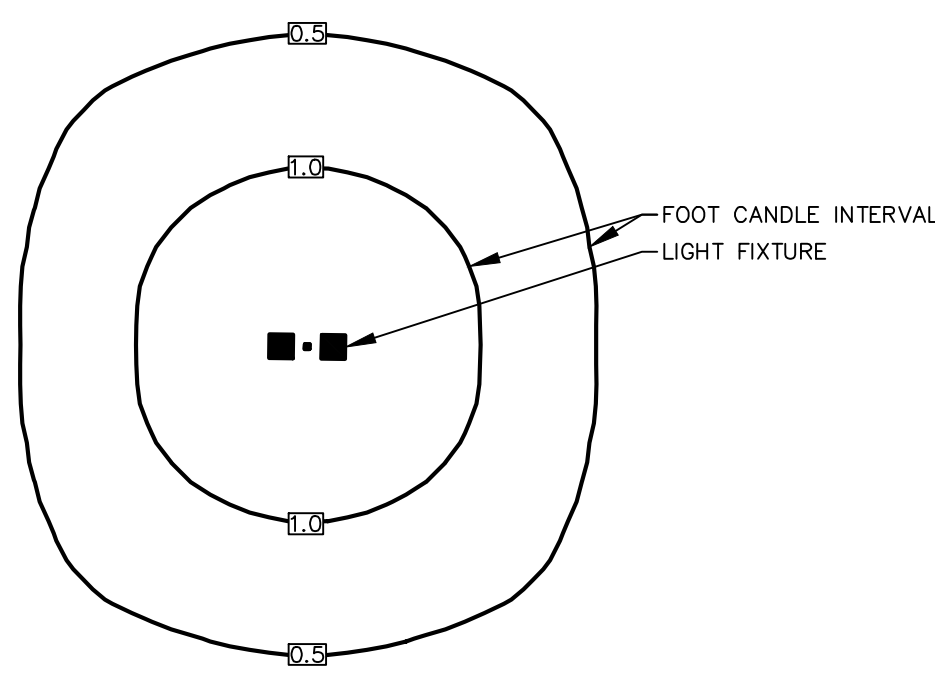
J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36962
DATED: 10/29/2021

Designer: JMP
Draftsman: JMF
Checked By: JMP
Project No.: 19-265
Scale: 1" = 30'
Sheet:
SP-16

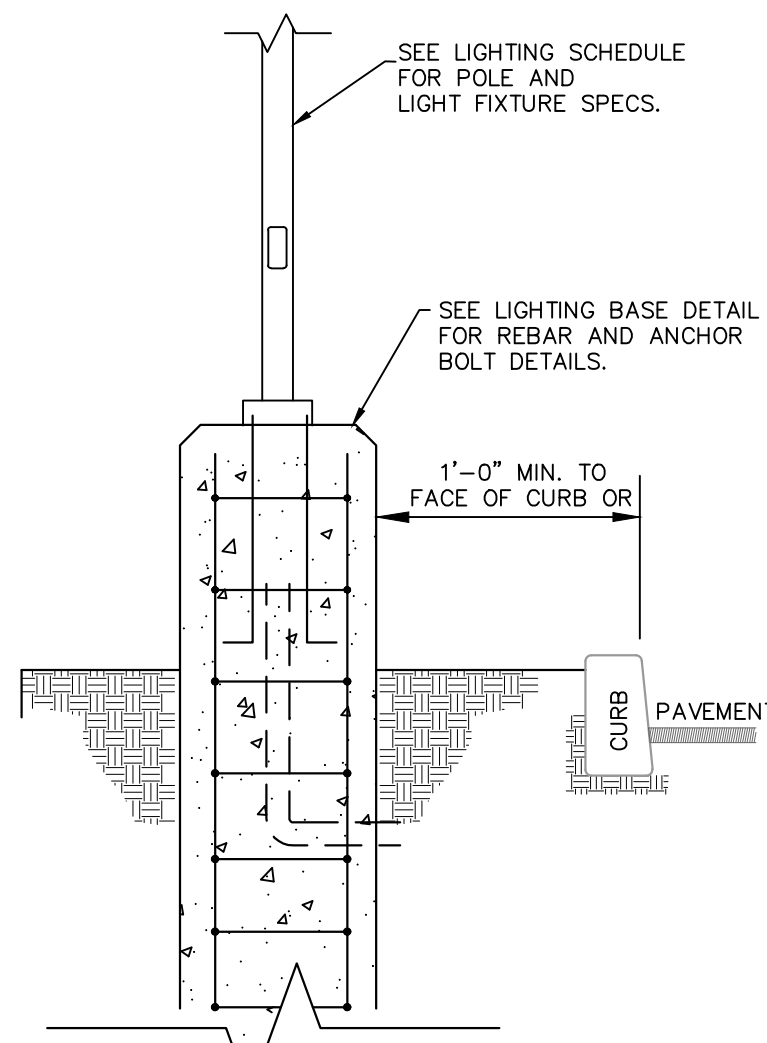
CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.



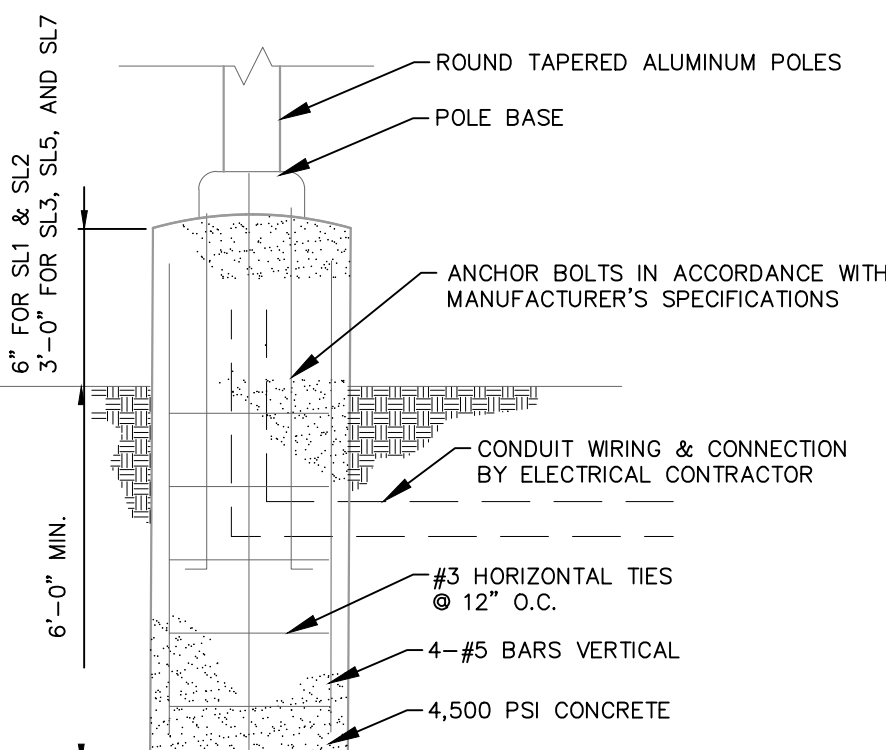
MOUNTING HEIGHT DIAGRAM
SCALE - N.T.S.



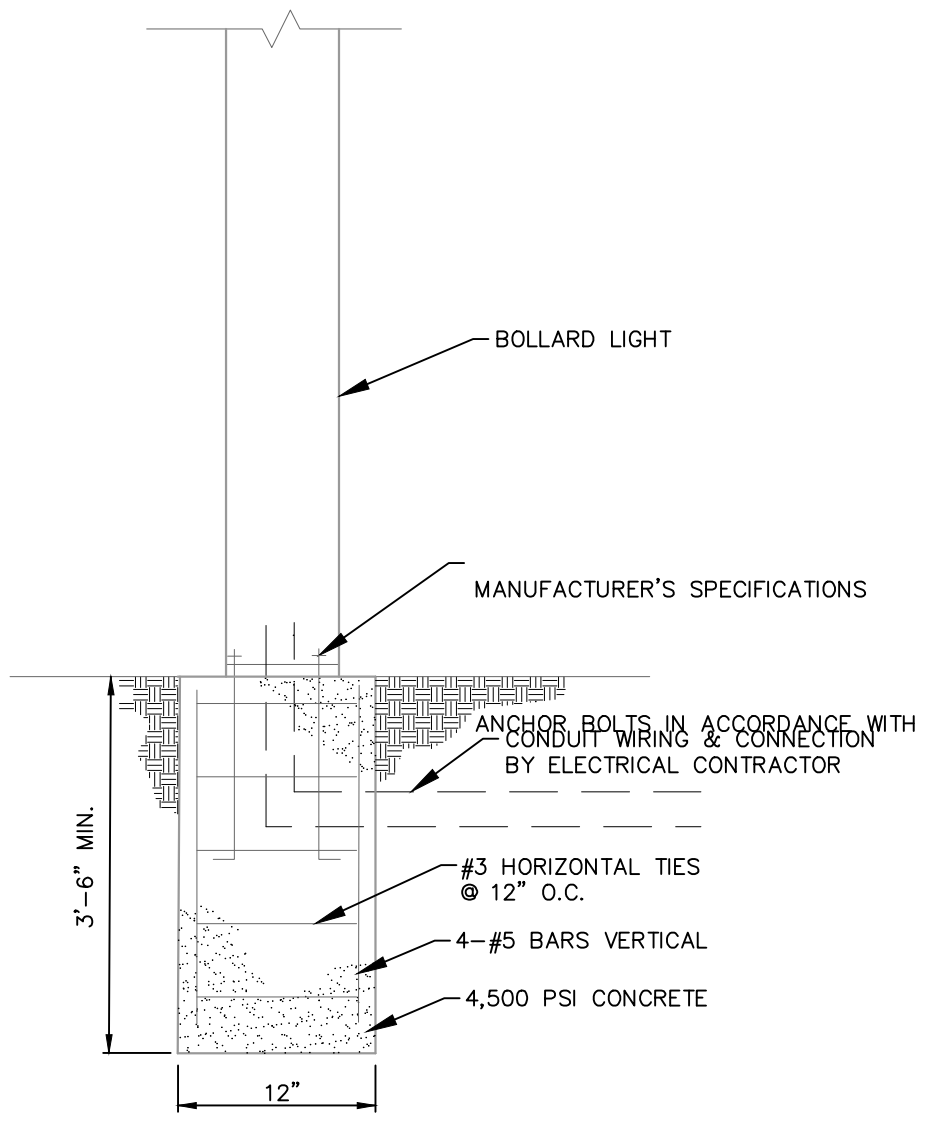
ISOLUX DIAGRAM
SCALE - N.T.S.



LIGHT BASE &
CURB INTERACTION DETAIL
N.T.S.



LIGHT BASE DETAIL
SCALE - N.T.S.



BOLLARD LIGHT BASE DETAIL
SCALE - N.T.S.

KIMLIGHTING®
PA7R
BOLLARD

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

FEATURES

- EA Dark Sky Compliant, No Light Pollution
- Elegant form factor finished with Performance Glaze
- Integrated NEMA 3P Enclosure
- Over 100,000 hours of life
- 100-watt capacity
- Bluetooth-enabled RGBW accent

CONTROL TECHNOLOGY
Bluetooth® DMX **intelliTUNE**

CONSTRUCTION

HOUSING

- Cast with low copper aluminum alloy die-cast
- Cast with low copper aluminum alloy die-cast
- Cast with low copper aluminum alloy die-cast
- Cast with low copper aluminum alloy die-cast
- Cast with low copper aluminum alloy die-cast

OPTICS

- LED module is a metal printed circuit board assembly (PCBA)
- Optical lenses are clear injection molded (PMA) acrylic
- LED configurations have an optically clear heat transfer glass lens, all other configurations have either an optically clear or high transmission (diffused acrylic) lens

INSTALLATION

- Mounting height is 120" (3048 mm) to top of luminaire
- Mounting height is 120" (3048 mm) to top of luminaire
- Mounting height is 120" (3048 mm) to top of luminaire
- Mounting height is 120" (3048 mm) to top of luminaire
- Mounting height is 120" (3048 mm) to top of luminaire

KEY DATA

Parameter	Value
Lumen Range	397-2950
Beam Angle	14-22
Efficiency Range (lm/W)	23-45
Reported Life (Hours)	1,700,000

Related Products: Pavilion Series, Pavilion Series

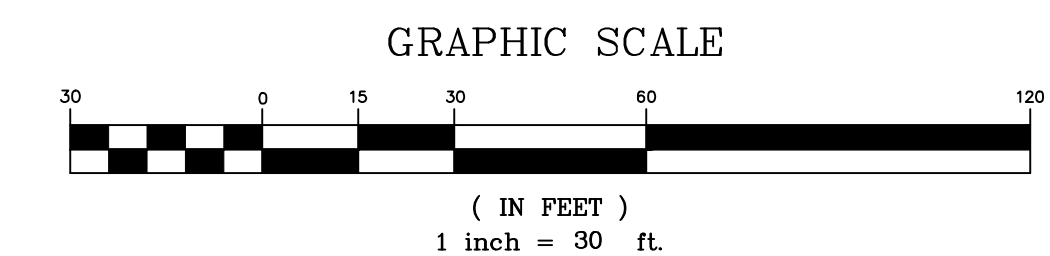
"BOL" FIXTURE

KIMLIGHTING®
UR20
ARCHITECTURAL AREA/STREET

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

FEATURES

- 20" size in post top, pole and wall mount
- High performance optics up to 10,000 delivered lumens
- Elegant form factor
- Diffusion lens option
- ShinyCast™ wireless control options
- 6-10W, 10W, 15W, 20W, 25W, 30W, 35W, 40W, 45W, 50W, 55W, 60W, 65W, 70W, 75W, 80W, 85W, 90W, 95W, 100W, 105W, 110W, 115W, 120W, 125W, 130W, 135W, 140W, 145W, 150W, 155W, 160W, 165W, 170W, 175W, 180W, 185W, 190W, 195W, 200W, 205W, 210W, 215W, 220W, 225W, 230W, 235W, 240W, 245W, 250W, 255W, 260W, 265W, 270W, 275W, 280W, 285W, 290W, 295W, 300W, 305W, 310W, 315W, 320W, 325W, 330W, 335W, 340W, 345W, 350W, 355W, 360W, 365W, 370W, 375W, 380W, 385W, 390W, 395W, 400W, 405W, 410W, 415W, 420W, 425W, 430W, 435W, 440W, 445W, 450W, 455W, 460W, 465W, 470W, 475W, 480W, 485W, 490W, 495W, 500W, 505W, 510W, 515W, 520W, 525W, 530W, 535W, 540W, 545W, 550W, 555W, 560W, 565W, 570W, 575W, 580W, 585W, 590W, 595W, 600W, 605W, 610W, 615W, 620W, 625W, 630W, 635W, 640W, 645W, 650W, 655W, 660W, 665W, 670W, 675W, 680W, 685W, 690W, 695W, 700W, 705W, 710W, 715W, 720W, 725W, 730W, 735W, 740W, 745W, 750W, 755W, 760W, 765W, 770W, 775W, 780W, 785W, 790W, 795W, 800W, 805W, 810W, 815W, 820W, 825W, 830W, 835W, 840W, 845W, 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3015W, 3020W, 3025W, 3030W, 3035W, 3040W, 3045W, 3050W, 3055W, 3060W, 3065W, 3070W, 3075W, 3080W, 3085W, 3090W, 3095W, 3100W, 3105W, 3110W, 3115W, 3120W, 3125W, 3130W, 3135W, 3140W, 3145W, 3150W, 3155W, 3160W, 3165W, 3170W, 3175W, 3180W, 3185W, 3190W, 3195W, 3200W, 3205W, 3210W, 3215W, 3220W, 3225W, 3230W, 3235W, 3240W, 3245W, 3250W, 3255W, 3260W, 3265W, 3270W, 3275W, 3280W, 3285W, 3290W, 3295W, 3300W, 3305W, 3310W, 3315W, 3320W, 3325W, 3330W, 3335W, 3340W, 3345W, 3350W, 3355W, 3360W, 3365W, 3370W, 3375W, 3380W, 3385W, 3390W, 3395W, 3400W, 3405W, 3410W, 3415W, 3420W, 3425W, 3430W, 3435W, 3440W, 3445W, 3450W, 3455W, 3460W, 3465W, 3470W, 3475W, 3480W, 3485W, 3490W, 3495W, 3500W, 3505W, 3510W, 3515W, 3520W, 3525W, 3530W, 3535W, 3540W, 3545W, 3550W, 3555W, 3560W, 3565W, 3570W, 3575W, 3580W, 3585W, 3590W, 3595W, 3600W, 3605W, 3610W, 3615W, 3620W, 3625W, 3630W, 3635W, 3640W, 3645W, 3650W, 3655W, 3660W, 3665W, 3670W, 3675W, 3680W, 3685W, 3690W, 3695W, 3700W, 3705W, 3710W, 3715W, 3720W, 3725W, 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- REFERENCES:
- BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1155 PLEASANT VALLEY WAY, LOT 12 (BLOCK 171), TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY," PREPARED BY MICHAEL PERSCHMAN, P.L.S., DATED 4/19/2020.
 - SUPPLEMENTAL UTILITY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "GPS FINDINGS MAP OF DAUGHTERS OF ISRAEL CAMPUS 1155 PLEASANT VALLEY WAY, WEST ORANGE, NJ" PREPARED BY SCOTT VAPIANO AND DATED 10/06/2021.

3	ELIMINATION OF PHASE IV	01/26/2023	JMP
2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2022	JMP
REVISION	DESCRIPTION	DATE	BY

PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

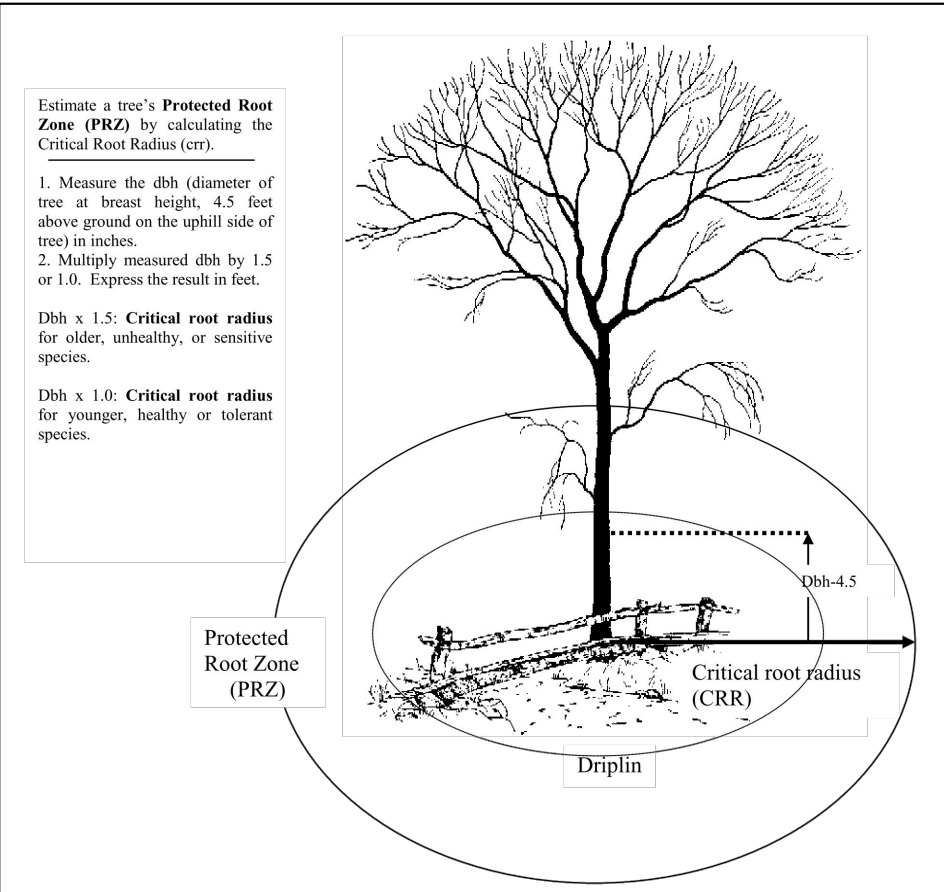
OVERALL PHASING PLAN



J. MICHAEL PETRY-PE,PP,RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36962 DATED: 05/20/2022

Designer: JMP
Draftsman: JAF
Checked By: JMP
Project No.: 19-265
Scale: 1"=30'
Sheet: P-1

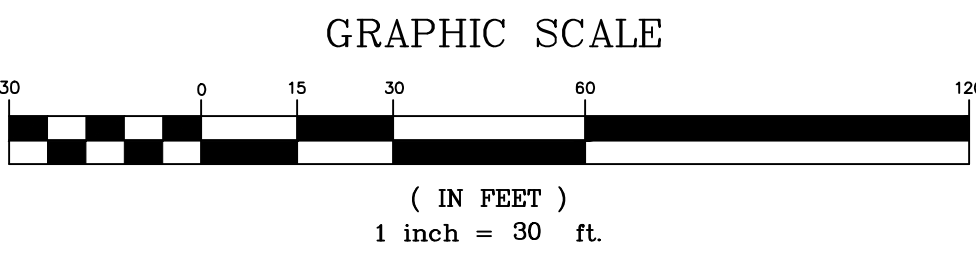
CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.



ROOT PROTECTION DURING CONSTRUCTION DETAIL
SCALE - N.T.S.

WOODED AREA DISTURBANCE:
9.5 ACRES OF EXISTING WOODED AREA
0.23 ACRES OF DISTURBED WOODED AREA
 $0.23 / 9.5 = 2.4\%$ OF DISTURBED WOODED AREA
LESS THAN 30% ALLOWED

- NOTES:**
- TREE LOCATIONS ARE APPROXIMATE, FOR VISUAL PURPOSES ONLY.
 - TREES TO BE RETAGGED AND RENUMBERED PRIOR TO REMOVAL
 - REMAINING TREES TO BE PRUNED AS DIRECTED BY THE TOWN FORESTER.
 - ADDITIONAL TREE PROTECTION TO BE INSTALLED AS PER THE TOWN FORESTER'S RECOMMENDATIONS.



- REFERENCES:**
- BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1155 PLEASANT VALLEY WAY LOT 12 BLOCK 171, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY" PREPARED BY MICHAEL FERSCHMAN P.L.S. DATED 4/18/2020.

4	ELIMINATION OF PHASE IV	01/26/2023	JMP
3	REVISED PER TOWN FORESTERS COMMENTS	01/12/2023	JMP
2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	05/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY

PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171, LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

TREE REMOVAL PLAN



J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36662 DATED 10/29/2021

Designer: JMP
Draftsman: JMF
Checked By: JMP
Project No.: 19-265
Scale: 1"=30'
Sheet:
TR-1