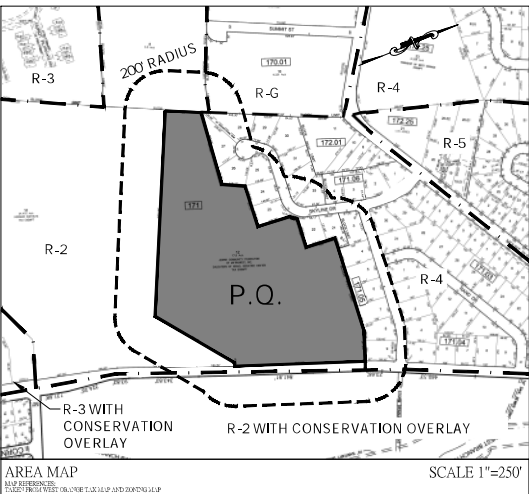


1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

[illegible]

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

Tract	Block	Lot	Quantity	Location	Owner	Owner Address	Owner City	Owner Zip
West Orange Township	157.01	11	AC	MT. PLEASANT DRIVE	115 ZURBON AVENUE	NEWARK, NJ	07114	
West Orange Township	157.01	12	AC	20 SEMAT STREET	SUNNY CREST REALTY, LLC	457 KACLEN ROAD	HOWELL, NJ	07731
West Orange Township	157.01	19	AC	6 SEMAT STREET	PLEASANT & AFFLIATED, LLC	301 S. LIVINGSTON AVENUE	LIVINGSTON, NJ	07033
West Orange Township	157	10	1/4	119 PLASANT VALLEY DRIVE	KESLER INDUSTRIES, INC. & ASSOCIATES	P.O. BOX 91229	SOUTH ARLINGTON, VA	22402
West Orange Township	157	11	1/4	119 PLASANT VALLEY DRIVE	ETIUS GROUP LLC			
West Orange Township	157	21	1/4	85 NYLON DRIVE	VALLEY KIRKIN-WHITE LLC	901 CH. ST.	WHIPPANY, NJ	07981
West Orange Township	157	22	1/4	10 NYLON DRIVE	CHRONAN, JENNIFER	63 NYLON DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157	23	1/4	14 NYLON DRIVE	BRADY, ANDREW & ELEANORA	14 NYLON DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157	24	1/4	16 NYLON DRIVE	TOFFER, JENNIFER	16 NYLON DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157	25	1/4	18 NYLON DRIVE	PIERRE, YVES & MARCOTTE	18 NYLON DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157	26	1/4	21 NYLON DRIVE	DONNELLY, JAMES P. & FARE	21 NYLON DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157	27	1/4	24 NYLON DRIVE	FAIR, MICHAEL & RENEE	24 NYLON DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157	28	1/4	21 NYLON DRIVE	BERNACK, SCOTT W. & QUINN, DANIEL	21 NYLON DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157	29	1/4	16 BLACK, ANDREW & DANE		19 NYLON DR	WEST ORANGE, NJ	07092
West Orange Township	157	30	1/4	19 NYLON DRIVE	EDMONSON, EMMETT M. & MILDRED	19 NYLON DR	WEST ORANGE, NJ	07092
West Orange Township	157	31	1/4	11 NYLON DRIVE	JONES, DAVID & COUNTEY V	11 NYLON DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157	32	1/4	17 NYLON DRIVE	REAR, ROBERT & OWEN L. JOSEPHINE	17 NYLON DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157.01	33	AC	8 PARKSON DRIVE	KUMAR, RAJESH & BEBBA	9 PARKSON DR	WEST ORANGE, NJ	07092
West Orange Township	157.01	34	AC	23 ROAD DRIVE	MACHIPERIO & BOYFORD/RENNETTE	23 ROAD DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157.01	35	AC	6 PARKSON DRIVE	SCHWITZER, KENNETH B. & JENNY	6 PARKSON DR	WEST ORANGE, NJ	07092
West Orange Township	157.01	36	AC	12 PARKSON DRIVE	CRYSTAL, BEN	12 PARKSON DR	WEST ORANGE, NJ	07092
West Orange Township	157.01	37	AC	10 PARKSON DRIVE	LOPEZ MARRAS & PATRICK DELUNDO	10 PARKSON DR	WEST ORANGE, NJ	07092
West Orange Township	157.01	38	AC	8 PARKSON DRIVE	RELLA, SUEBKA BEV. TRUST	8 PARKSON DR	WEST ORANGE, NJ	07092
West Orange Township	157.01	39	AC	4 PARKSON DRIVE	PIANNA, VICTORIA	4 PARKSON DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157.01	40	AC	4 PARKSON DRIVE	EGY, BENJAMIN M. & SABLE	4 PARKSON DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157.01	41	AC	2 PARKSON DRIVE	QUICK PROPERTIES CAPITAL CORP.	2 PARKSON DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157.01	42	AC	5 PARKSON DRIVE	LEVIN, ROYCE	5 PARKSON DRIVE	WEST ORANGE, NJ	07092
West Orange Township	157.01	43	AC	7 PARKSON DRIVE	QUINONES, OLINDA	107 SP. RD	VERONA, NJ	07093

COUNTY OF ESSEX

DATE	PLANNING BOARD CHAIRPERSON
DATE	PLANNING BOARD SECRETARY
DATE	
DATE	

TRANSPARENCY

3	COMPLETION OF PHASE 1	01/06/2023	JMP
7	RECEIPT OF THE REQUIRED ROADSIDE SAFETY COMMENTS	11/03/2023	JMP
8	RECEIPT OF THE REQUIRED ROADSIDE REPORT	06/05/2023	JMP
DESCRIPTION	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

TITLE SHEET



J. MICHAEL PETRY-PE,PP,RA

Printer: 150

Customer 347

Checked By: JLP

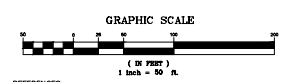
Project No.: 75-305

Scale: AS SHOWN

Sheet 33 of 41

SP-1





- REFERENCES:
1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1150 PLEASANT VALLEY WAY LOT 12 BLOCK 171, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY PREPARED BY MICHAEL PERRYMAN 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	DATE REVIEWED BY	10/26/2022	JMP
2	DATE REVIEWED BY	11/22/2021	JMP
1	DATE REVIEWED BY	10/26/2020	JMP
REVISION	DESCRIPTION	DATE	BY

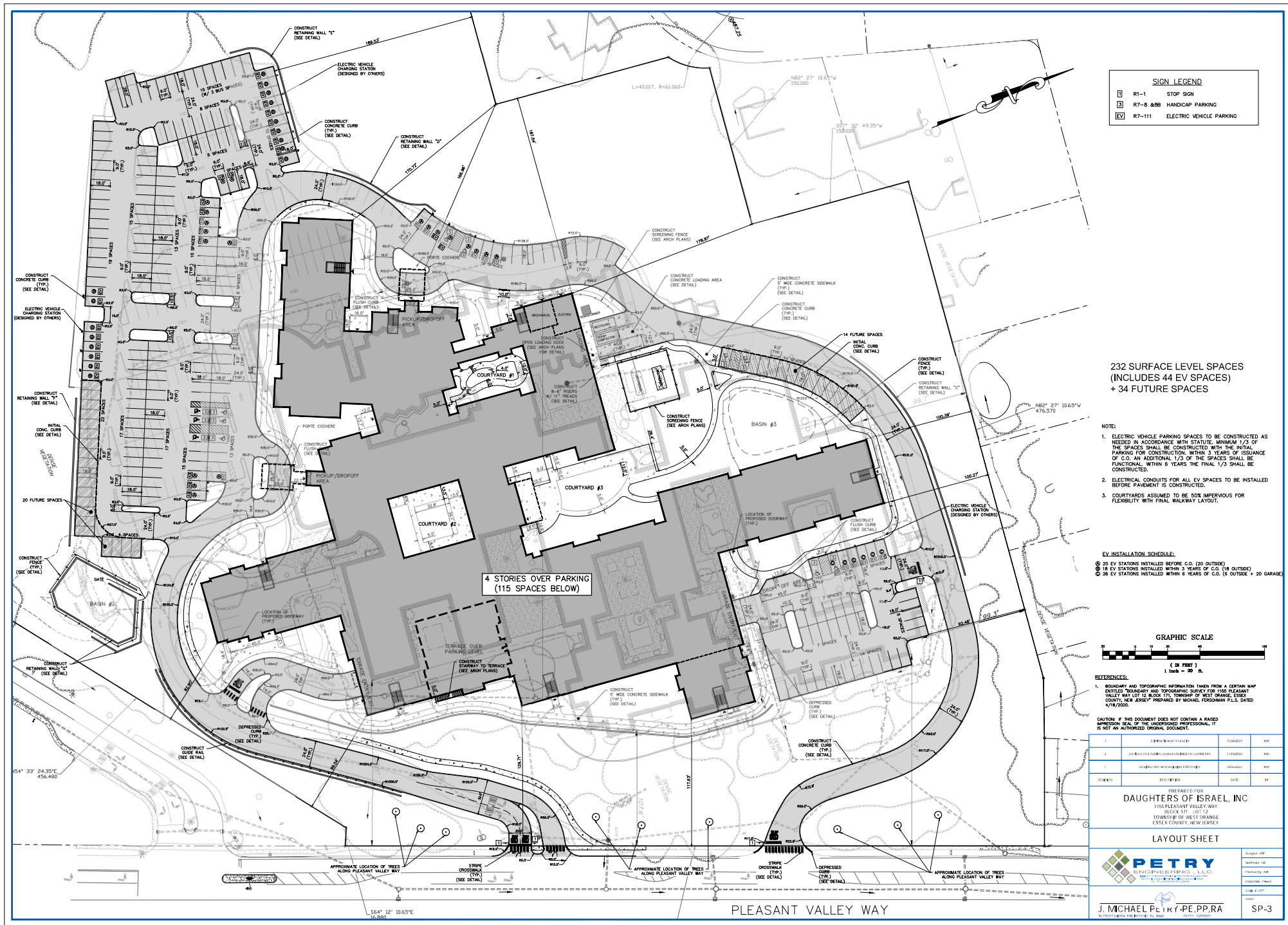
PREPARED FOR:
DAUGHTERS OF ISRAEL, INC
330 PLEASANT VALLEY WAY
BLOCK 171, LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

OVERALL LAYOUT SHEET



J. MICHAEL PERRYMAN, P.E., P.P.R.A.
NEW JERSEY PROFESSIONAL ENGINEER NO. 10490
SEAL NUMBER

Company: JPM
Designer: JPM
Checker: JPM
Engineer: JPM
Scale: 1"=50'
Sheet: SP-2

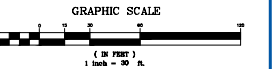


SIGN LEGEND		
[Symbol]	R1-1	STOP SIGN
[Symbol]	R7-8 & B	HANDICAP PARKING
[Symbol]	R7-111	ELECTRIC VEHICLE PARKING

232 SURFACE LEVEL SPACES
(INCLUDES 44 EV SPACES)
+ 34 FUTURE SPACES

- NOTE:
1. 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 5 YEARS OF ISSUANCE OF C.O. AN ADDITIONAL 1/3 OF THE SPACES SHALL BE FUNCTIONAL. WITHIN 5 YEARS THE FINAL 1/3 SHALL BE CONSTRUCTED.
 2. ELECTRICAL CONDUITS FOR ALL EV SPACES TO BE INSTALLED BEFORE PAVEMENT IS CONSTRUCTED.
 3. COURTYARDS ASSUMED TO BE 50% IMPERVIOUS FOR FLEXIBILITY WITH FINAL WALKWAY LAYOUT.

- EV INSTALLATION SCHEDULE:
- 20 EV STATIONS INSTALLED BEFORE C.O. (20 OUTSIDE)
 - 10 EV STATIONS INSTALLED WITHIN 5 YEARS OF C.O. (10 OUTSIDE)
 - 20 EV STATIONS INSTALLED WITHIN 6 YEARS OF C.O. (6 OUTSIDE + 20 GARAGE)



- REFERENCES:
1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP DATED 10/10/2017 AND TOWNSHIP SURVEY OF 1105 PLEASANT VALLEY WAY LOT 12 BLOCK 171, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY PREPARED BY MICHAEL FORDMAN 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	DATE OF REVIEW OF PLANS BY:	10/04/2021	AWP
2	REVISIONS OR COMMENTS/REVISIONS COMMENTS:	11/03/2020	AWP
1	REVISIONS OR COMMENTS/REVISIONS COMMENTS:	09/04/2020	AWP
0	DATE	DATE	AWP

PREPARED FOR:
DAUGHTERS OF ISRAEL, INC
1105 PLEASANT VALLEY WAY
BLOCK 171, LOT 12
TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY

LAYOUT SHEET

PETRY ENGINEERING, LLC
1105 PLEASANT VALLEY WAY
BLOCK 171, LOT 12
TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY

DESIGNER: JAW
CHECKED: JAW
DATE: 10/04/2021

J. MICHAEL PETRY, P.E., P.P.R.A.
NEW JERSEY PROFESSIONAL ENGINEER NO. 3682

SP-3

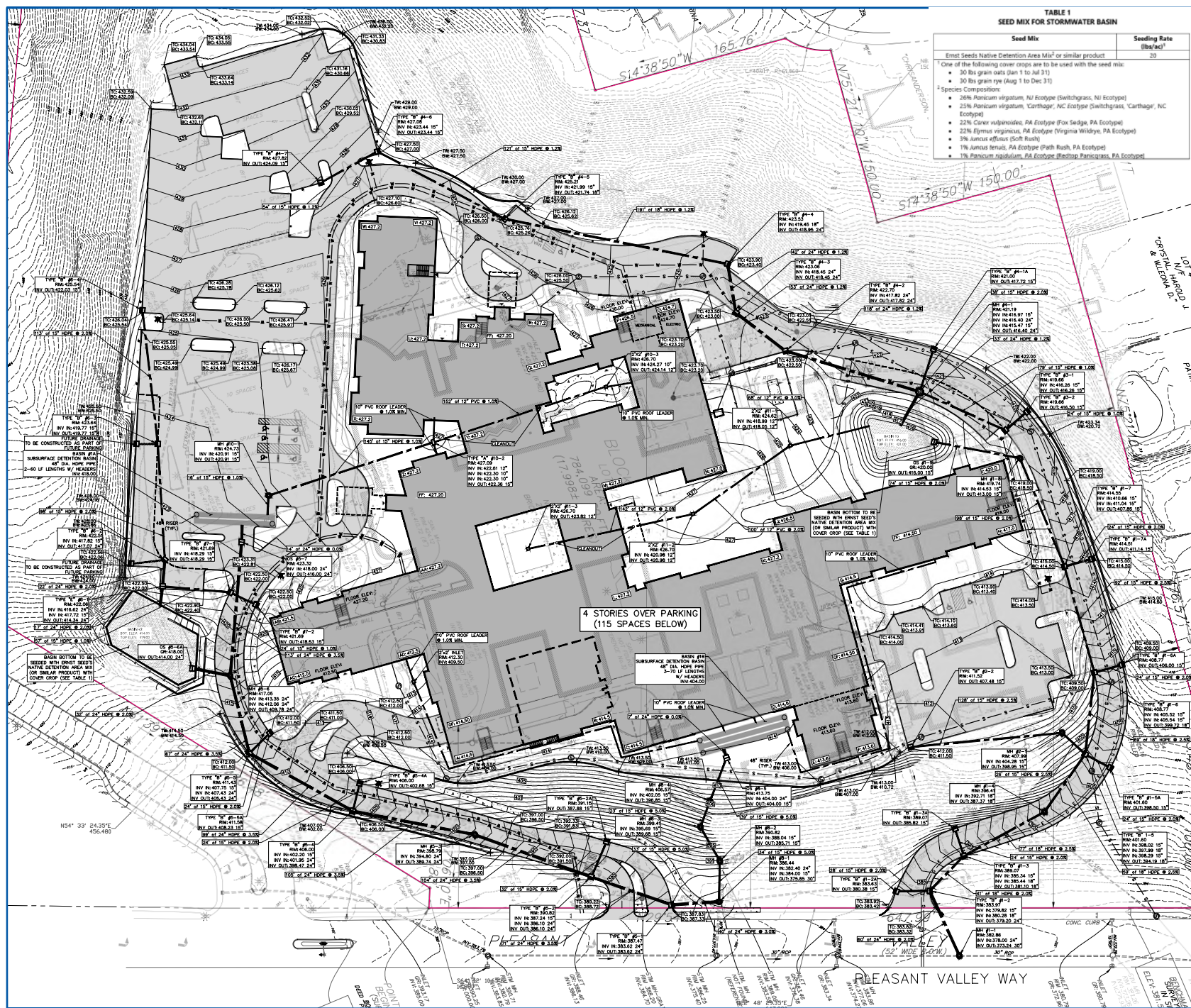


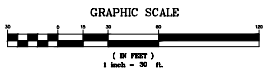
TABLE 1
SEED MIX FOR STORMWATER BASIN

Seed Mix	Seeding Rate (lbs/ac) ¹
Ernst Seeds Native Detention Area Mix ² or similar product	20
One of the following cover crops are to be used with the seed mix:	
• 30 lbs grain oats (Aug 1 to Jul 31)	
• 30 lbs grain rye (Aug 1 to Dec 31)	
² Species Composition:	
• 26% <i>Artemisia virginiana</i> , NJ Ecotype (Switchgrass, NJ Ecotype)	
• 25% <i>Artemisia virginiana</i> , Carthage, NJ Ecotype (Switchgrass, Carthage, NJ Ecotype)	
• 22% <i>Carex vulpinoidea</i> , PA Ecotype (Fox Sedge, PA Ecotype)	
• 23% <i>Elymus virginicus</i> , PA Ecotype (Virginia Wildrye, PA Ecotype)	
• 3% <i>Juncus effusus</i> (Soft Rush)	
• 1% <i>Ammannia tenuis</i> , PA Ecotype (Path Rush, PA Ecotype)	
• 1% <i>Panicum naupium</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 THE INT SUBSURFACE BASIN, P.A.
2. PHASE 2 & 3 ROOF LEADERS TO THE INT SUBSURFACE BASIN, P.A.
3. PHASE 1 BUILDING TO INCLUDE 4,482 SF OF GREEN ROOF AREA.
4. PHASE 2 & 3 BUILDING TO INCLUDE 16,566 SF OF GREEN ROOF AREA.



REFERENCES:
1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1150 PLEASANT VALLEY WAY LOT 13 BLOCK 17, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY" PREPARED BY MICHAEL PETRYMAN P.E., DATED 4/18/2020.
2. SUPPLEMENTAL UTILITY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "TYPE FISHING MAP OF DAUGHTERS OF ISRAEL CAMPUS 1150 PLEASANT VALLEY WAY, WEST ORANGE, NJ" PREPARED BY SCOTT VANDANO 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.

1	Topographic Survey	10/26/2021	SEP
2	Topographic Survey (Boundaries)	11/06/2021	SEP
3	Topographic Survey (Boundaries)	11/06/2021	SEP
4	Topographic Survey (Boundaries)	11/06/2021	SEP

PREPARED FOR
DAUGHTERS OF ISRAEL, INC.
1150 PLEASANT VALLEY WAY
BLOCK 17, LOT 13
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

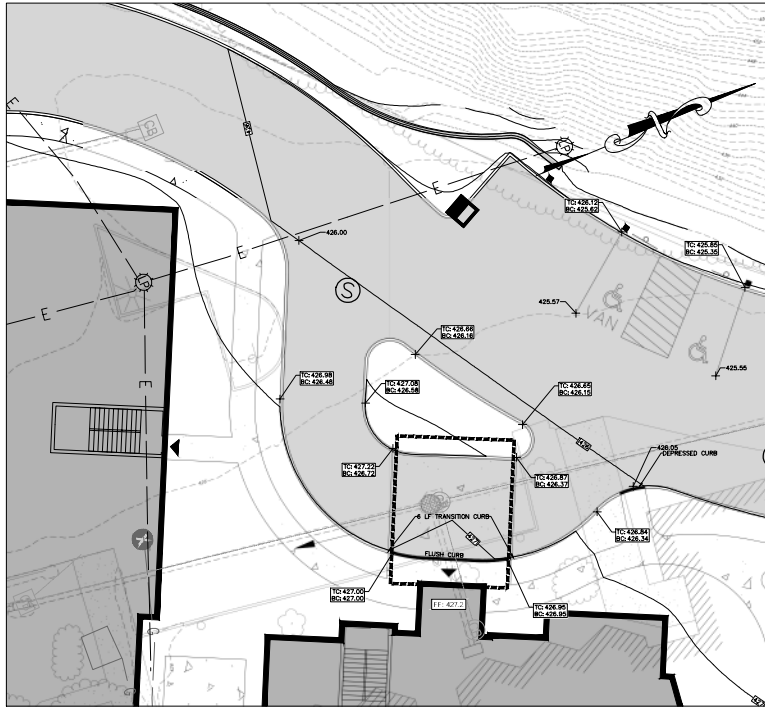
GRADING AND DRAINAGE PLAN

PETRY ENGINEERING, LLC
1150 PLEASANT VALLEY WAY
BLOCK 17, LOT 13
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

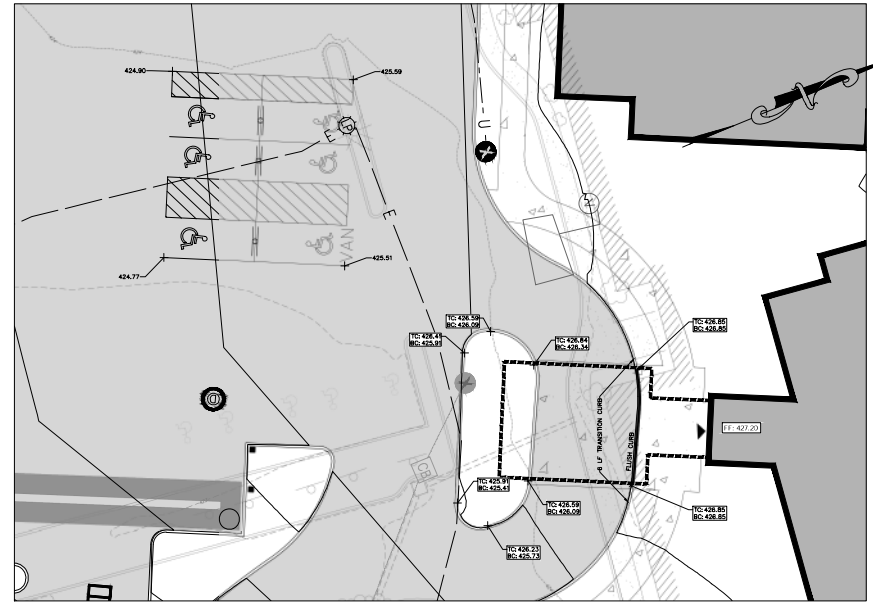
Location: 1150 Pleasant Valley Way, West Orange, NJ 07093
Client: Daughters of Israel, Inc.
Project: Grading and Drainage Plan
Scale: 1" = 30'
Date: 10/26/2021

J. MICHAEL PETRY-PE, PP, RA
REGISTERED PROFESSIONAL ENGINEER, NEW JERSEY
04100-10000000

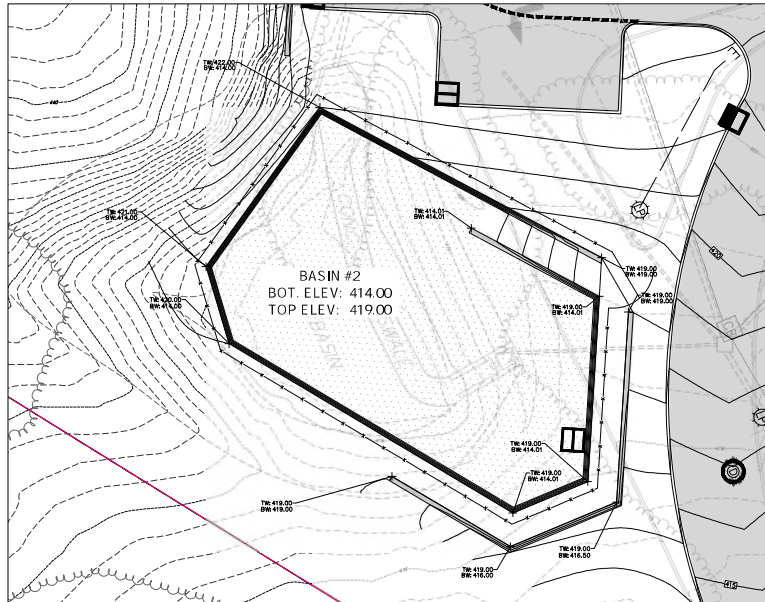
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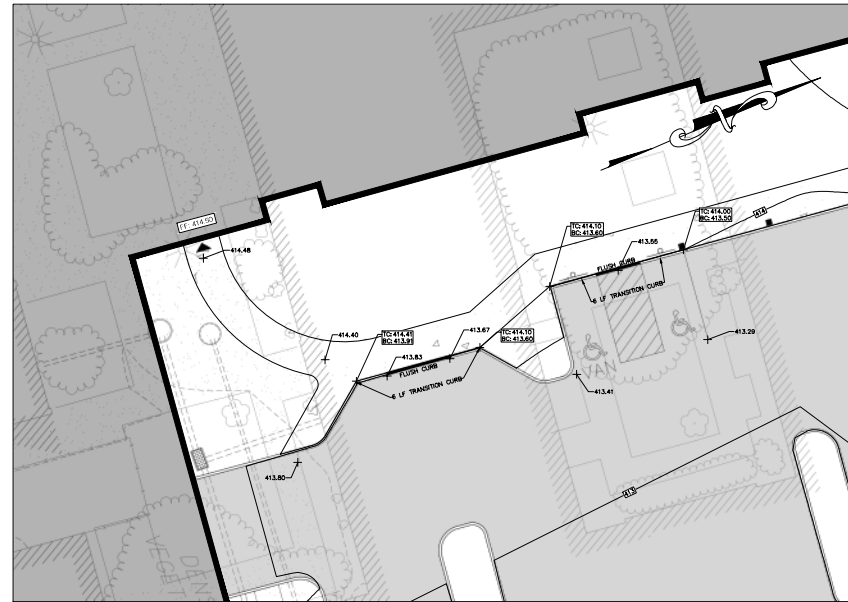
WESTERN PORTE COCHERE
SCALE: 1"=10'



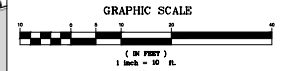
SOUTHERN PORTE COCHERE
SCALE: 1"=10'



WESTERN PORTE COCHERE
SCALE: 1"=10'



NORTHERN PORTE COCHERE
SCALE: 1"=10'



REFERENCES:

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1166 PLEASANT VALLEY WAY LOT 12 BLOCK 174, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY" PREPARED BY MICHAEL PERCYMAN P.E., DATED 4/16/2021.
2. SUPPLEMENTAL UTILITY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "GPS FINDING MAP OF DAUGHTERS OF ISRAEL CAMPUS 1166 PLEASANT VALLEY WAY, WEST ORANGE, NJ" PREPARED BY SCOTT VANDERKAM AND DATED 10/06/2021.

3	Engineering of PERRY, P.	01/24/2021	JMP
2	REVIEWED FOR CONSTRUCTION DOCUMENTS	11/03/2021	JMP
1	DESIGNED FOR CONSTRUCTION DOCUMENTS	06/03/2021	JMP
DESIGNER	PERCYMAN	DATE	BY

PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1166 PLEASANT VALLEY WAY
BLOCK 174, LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

DETAILED GRADING



J. MICHAEL PERRY-P.E., P.P.R.A.
111 PROFESSIONAL ENGINEER, No. 38002 DATED: 10/01/2021

Designer: JMP
Reviewer: JMP
Checker: JMP
Project: 1166
Scale: AS SHOWN
Sheet: SP-5

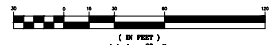
CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED
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IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.



SANITARY SEWER NOTES:

1. ALL SANITARY SEWER PIPES ARE TO BE SDR-35.

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 PERSSMAN P.L.S., DATED 4/18/2008.
2. SUPPLEMENTAL UTILITY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "TOPIC FILING MAP OF DAUGHTERS OF ISRAEL CAMPUS 1155 PLEASANT VALLEY WAY, WEST ORANGE, NJ" PREPARED BY SCOTT VAPIANO AND DATED 10/09/2007.

1	Topographic Survey	10/26/2007	MAP
2	Topographic Survey (Boundaries & Utility)	11/10/2008	MAP
3	Topographic Survey (Boundaries & Utility)	11/10/2008	MAP
4	Topographic Survey (Boundaries & Utility)	11/10/2008	MAP

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

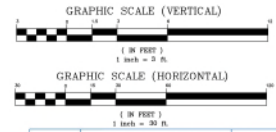
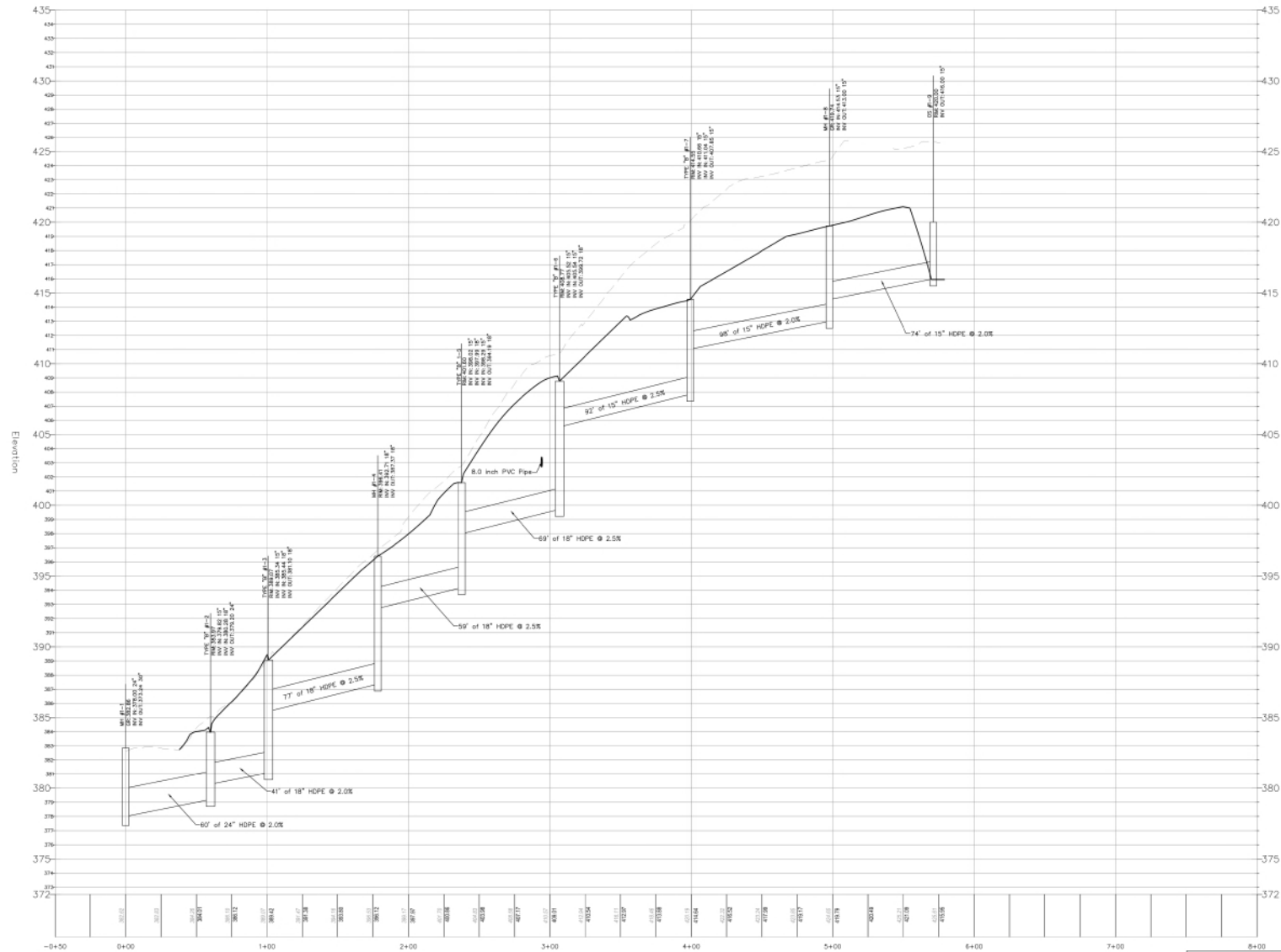
UTILITY PLAN



Location: 1155	Drawn: JAP
Checked: JAP	Reviewed: JAP
Project: 1155	Date: 11/10/2008
Scale: 1" = 100'	Sheet: SP-6

J. MICHAEL PETRY-PE,PP,RA
REGISTERED PROFESSIONAL ENGINEER, NJ License No. 36824
DATE: 11/10/2008

STORM SEWER #1 PROFILE



REVISION	DESCRIPTION	DATE	BY
3	ELIMINATION OF PAGE IV	09/05/2020	JMP
2	REVISED PER JORDAN ROUSE ENGINEERING COMMENTS	11/05/2020	JMP
1	REVISED FOR NEW BUILDING FOOTPRINT	08/05/2020	JMP

PREPARED FOR:
DAUGHTERS OF ISRAEL, INC
1105 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

STORM SEWER PROFILES

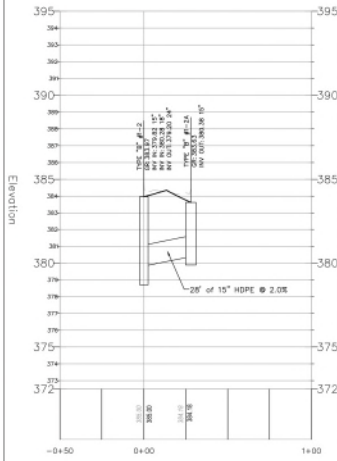


J. MICHAEL PETRY-PE, PP, RA
AL PROFESSIONAL ENGINEER, No. 38825
09/05/2020

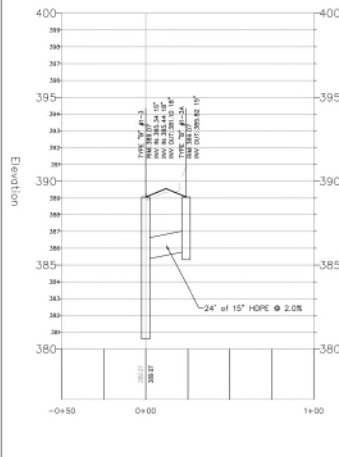
Designer: JMP
Checker: JMP
Reporter: JMP
Drawn: JMP
SP-7

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

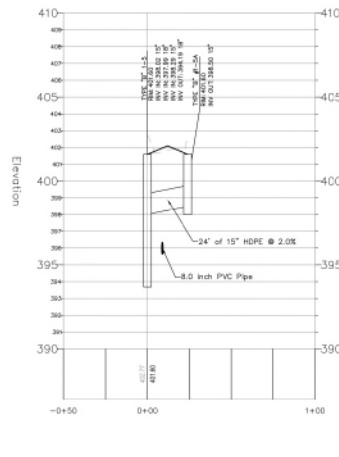
STORM SEWER #1-2A PROFILE



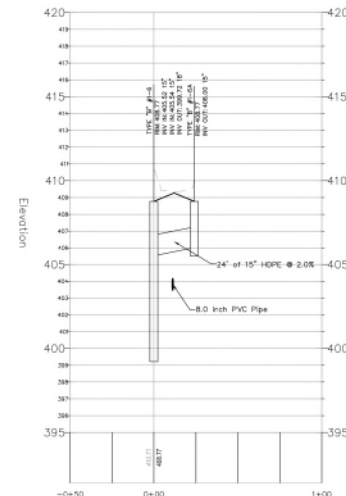
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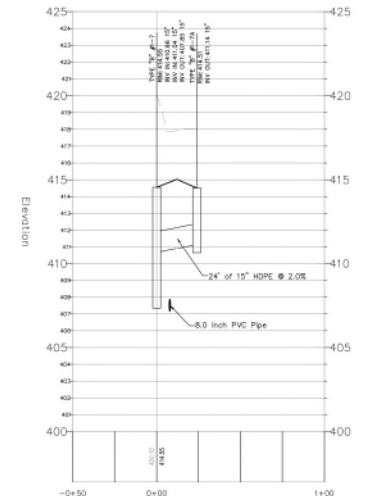
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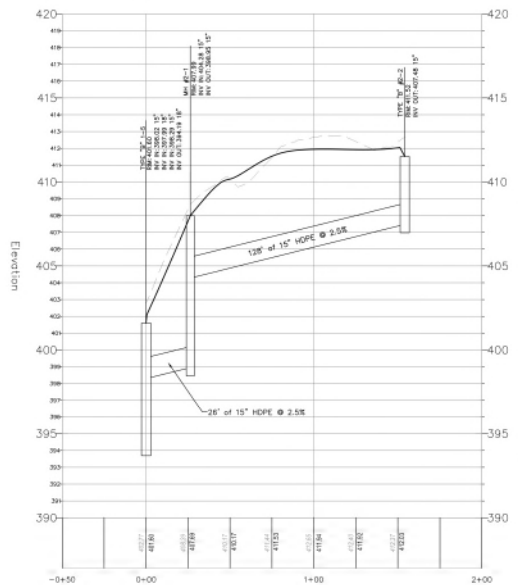
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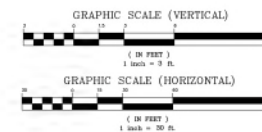
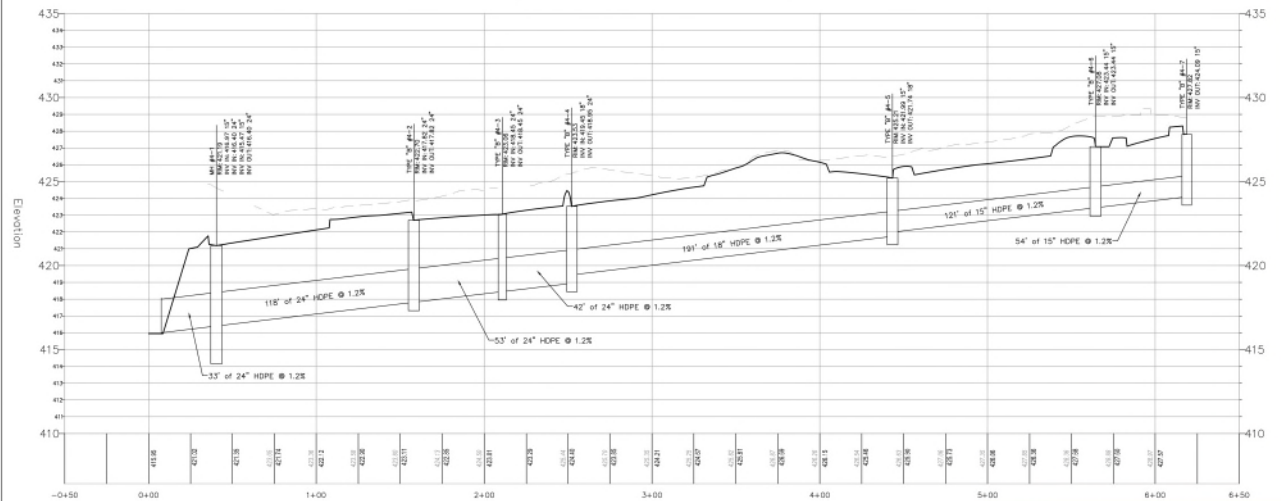
STORM SEWER #1-7A PROFILE



STORM SEWER #2 PROFILE



STORM SEWER #4 PROFILE

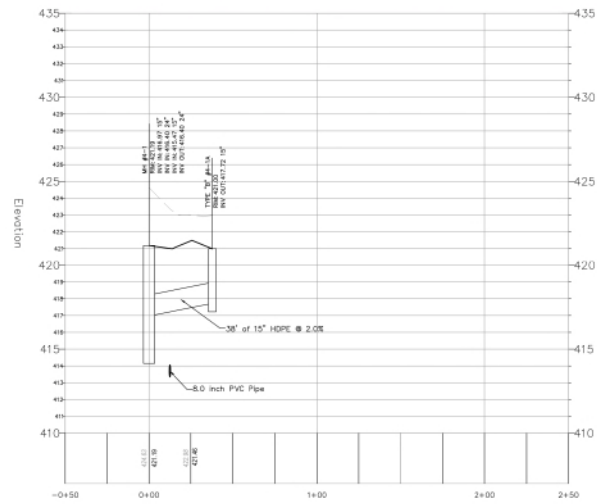


LEGEND	
EXISTING GRADE	---
PROPOSED GRADE	---

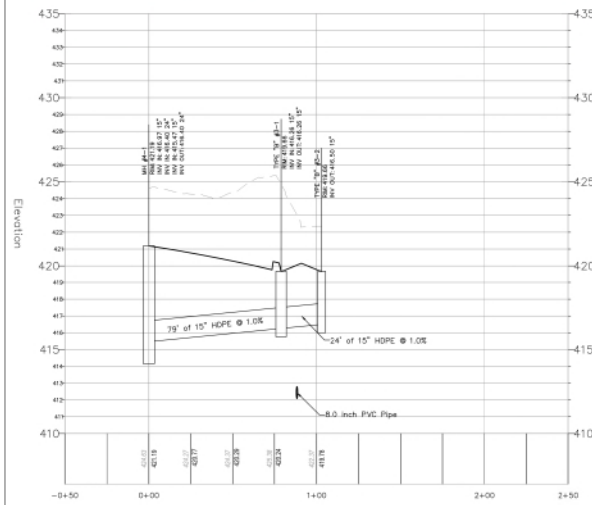
CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

3	ELIMINATION OF PHASE IV	10/05/2010	JMP
2	PREPARED FOR JEROME ENGINEERING COMMENTS	11/05/2010	JMP
1	PREPARED FOR NEW BUILDING FOOTPRINT	08/05/2010	JMP
REVISION	DESCRIPTION	DATE	BY
PREPARED FOR DAUGHTERS OF ISRAEL, INC 1100 PLEASANT VALLEY WAY TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY			
STORM SEWER PROFILES			
PETRY ENGINEERING, LLC 1100 PLEASANT VALLEY WAY TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY			
J. MICHAEL PETRY-PE, PP, RA REGISTERED PROFESSIONAL ENGINEER, NO. 36862 STATE OF NEW JERSEY			
Designer: JMP	Checker: JMP	Drawn: JMP	SP-8

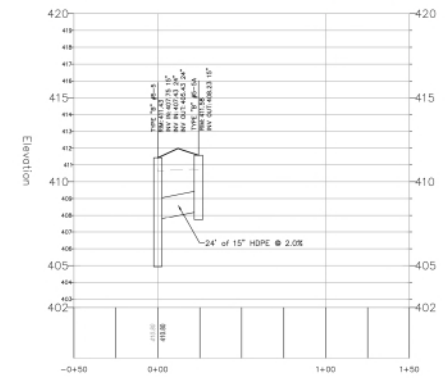
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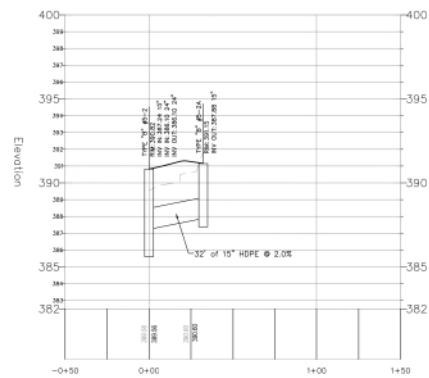
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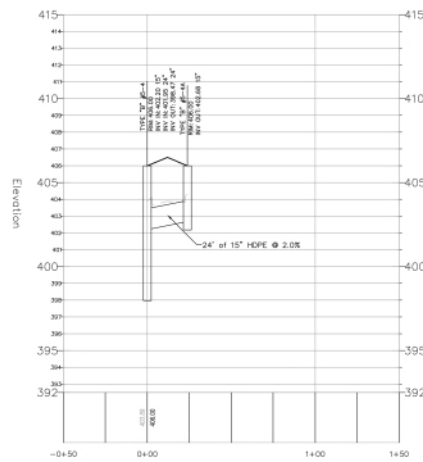
STORM SEWER #5-5A PROFILE



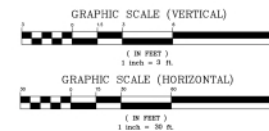
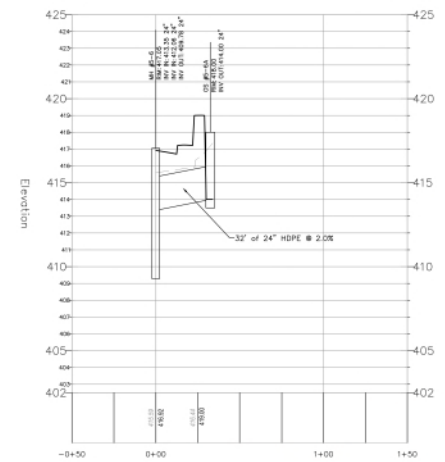
STORM SEWER #5-2A PROFILE



STORM SEWER #5-4A PROFILE



STORM SEWER #5-6A PROFILE

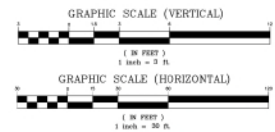
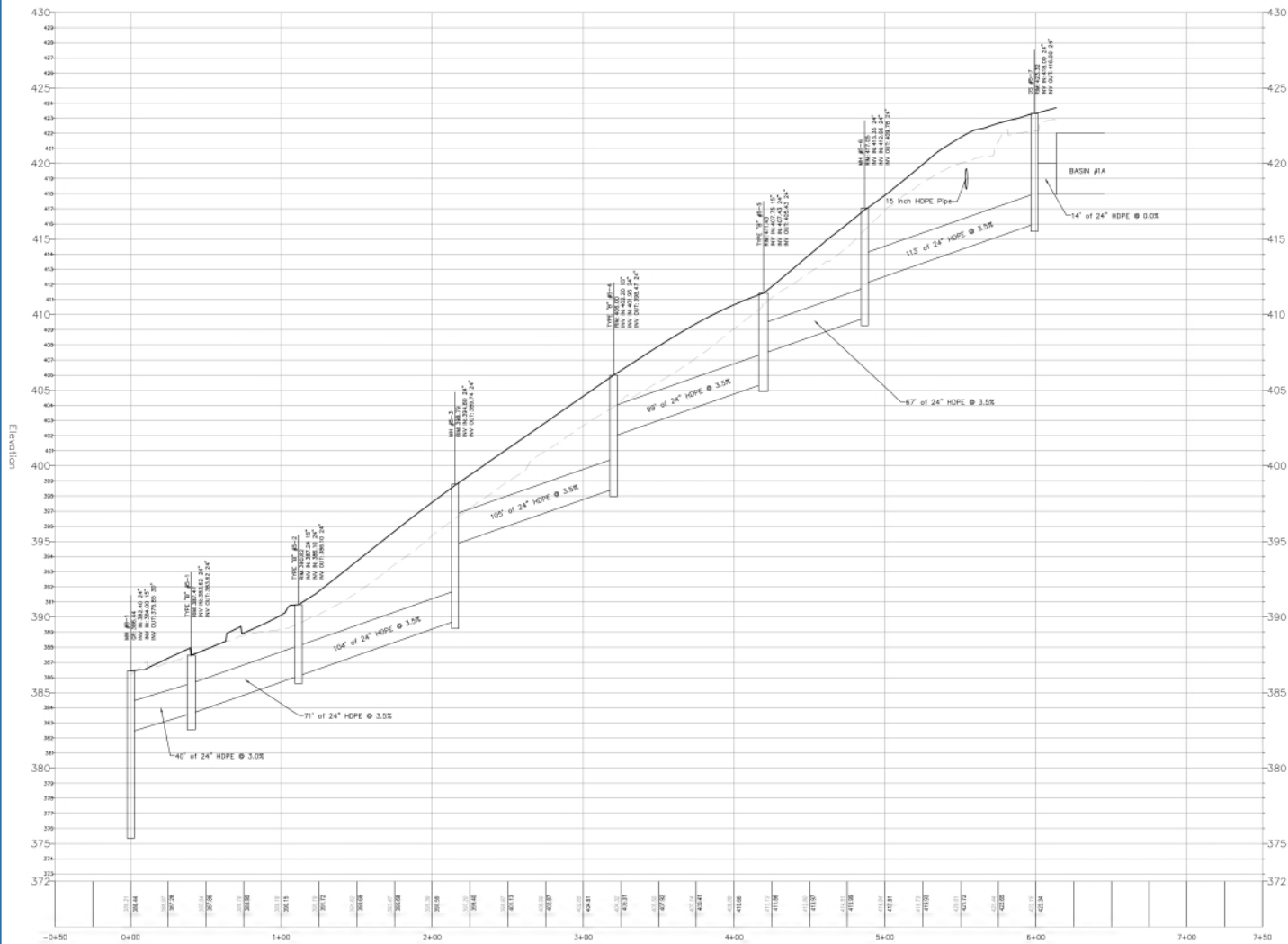


LEGEND	
EXISTING GRADE	---
PROPOSED GRADE	---

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

1	EXAMINATION OF PHASE IV	04/06/2020	JMP
2	REVISED FOR ISSUING ENGINEER'S COMMENTS	11/05/2020	JMP
3	REVISED FOR NEW BUILDING FOOTPRINT	02/05/2021	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 STORM SEWER PROFILES PETRY ENGINEERS & ARCHITECTS, P.C. 1000 ROUTE 100 SUITE 200 WEST ORANGE, NJ 07062 J. MICHAEL PETRY, P.E., P.P.R.A. REGISTERED PROFESSIONAL ENGINEER, NO. 36862 EXPIRY: 10/00/2021			
Designer	JMP		
Checker	JMP		
Project No.	19-025		
Sheet	SP-9		

STORM SEWER #5 PROFILE

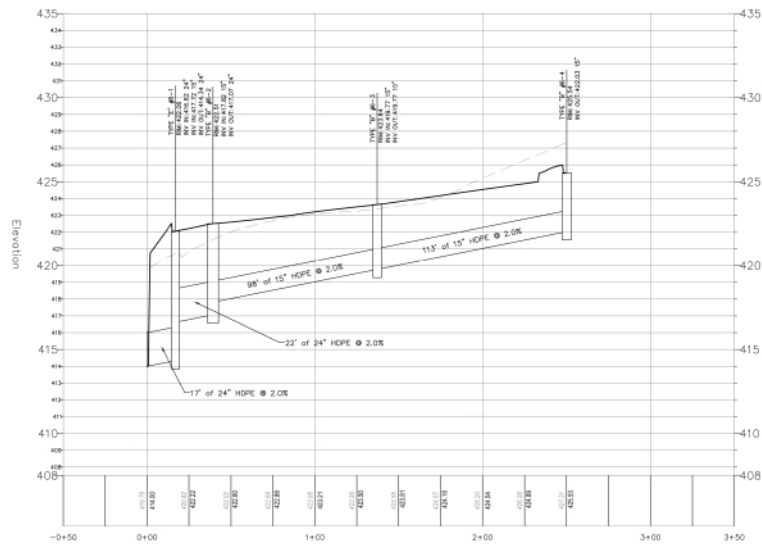


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PROPOSED GRADE	—

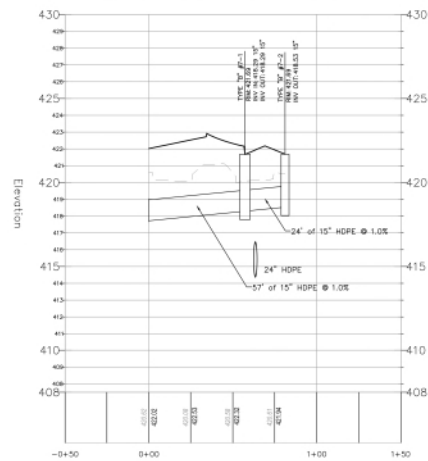
CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

3	ELIMINATION OF PHASE IV	09/05/2020	JAP
2	REVISION PER JORDAN ROUSE ENGINEERING COMMENTS	11/03/2020	JAP
1	PROPOSED PER NEW BUILDING FOOTPRINT	08/03/2020	JAP
REVISION	DESCRIPTION	DATE	BY
PREPARED FOR: DAUGHTERS OF ISRAEL, INC 1105 PLEASANT VALLEY WAY BLOCK 171 LOT 12 TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY			
STORM SEWER PROFILES			
		Designer: JAP Checker: JAP Engineer: JAP Date: 08/03/2020 Sheet: 05 of 05	
J. MICHAEL PETRY-PE, PP, RA AL PROFESSIONAL ENGINEER LICENSE NO. 36862 EXPIRE: 12/31/2024			SP-10

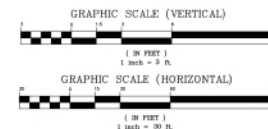
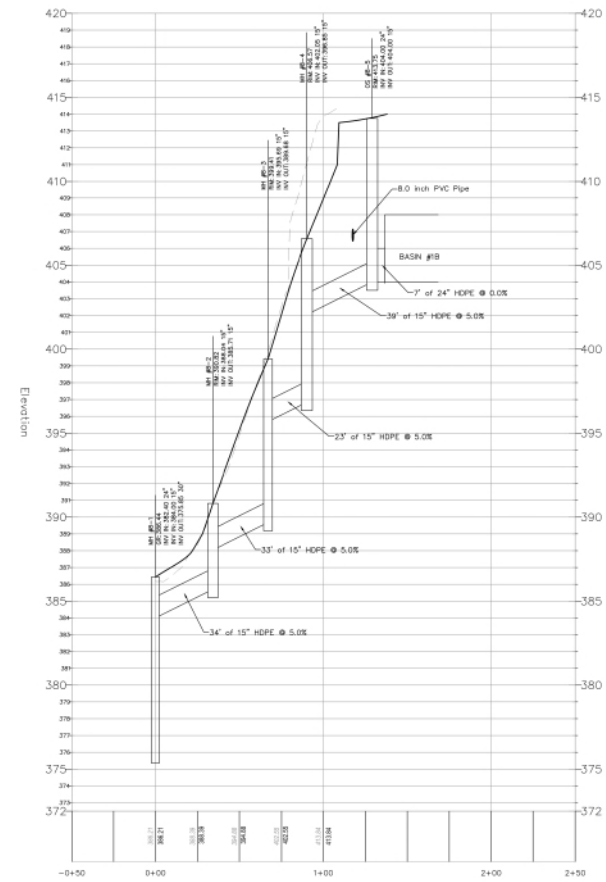
STORM SEWER #6 PROFILE



STORM SEWER #7 PROFILE



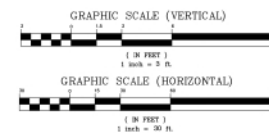
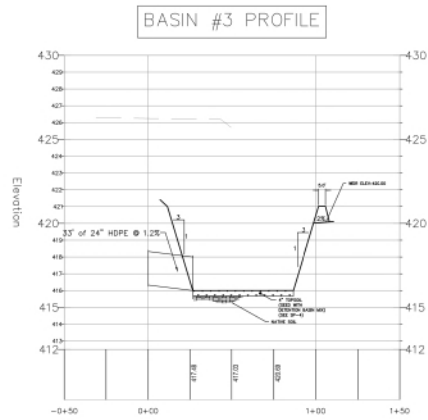
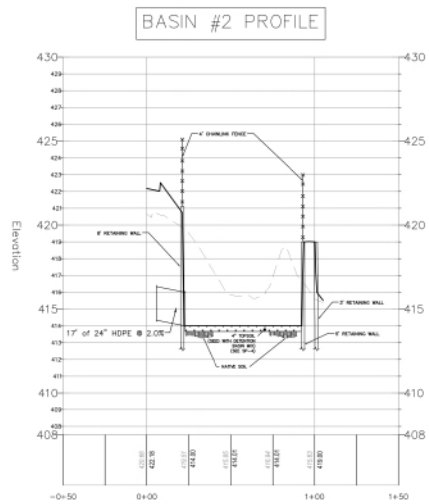
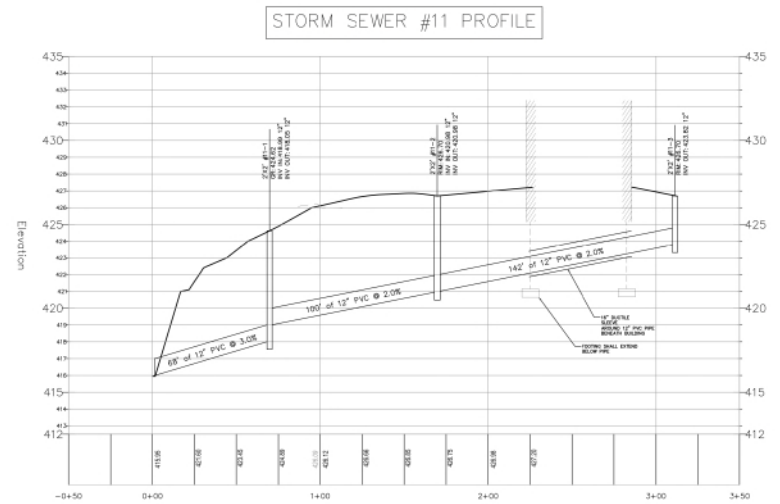
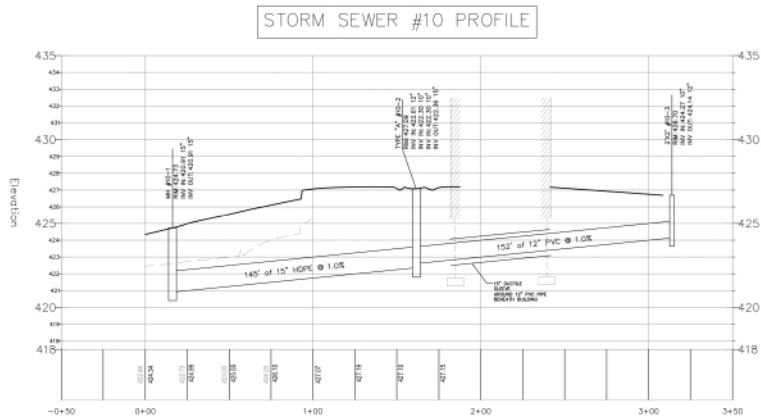
STORM SEWER #8 PROFILE



LEGEND	
EXISTING GRADE	---
PROPOSED GRADE	---

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 PAGE IV	09/05/2020	JMP
2	REVISION PER JORDAN REARD ENGINEER COMMENTS	11/05/2020	JMP
1	PROPOSED FOR NEW BUILDING FOOTPRINT	05/05/2020	JMP
REVISION	DESCRIPTION	DATE	BY
PREPARED FOR: DAUGHTERS OF ISRAEL, INC 1105 PLEASANT VALLEY WAY BLOCK 171 LOT 12 TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY			
STORM SEWER PROFILES			
		Designed: JMP	
		Drawn: JMP	
		Checked: JMP	
		Engineer: JMP	
		Scale: 1" = 5' V, 1" = 50' H	
		Sheet	
J. MICHAEL PETRY, P.E., P.P.R.A. ALP PROFESSIONAL ENGINEER LICENSE NO. 36802		SP-11	

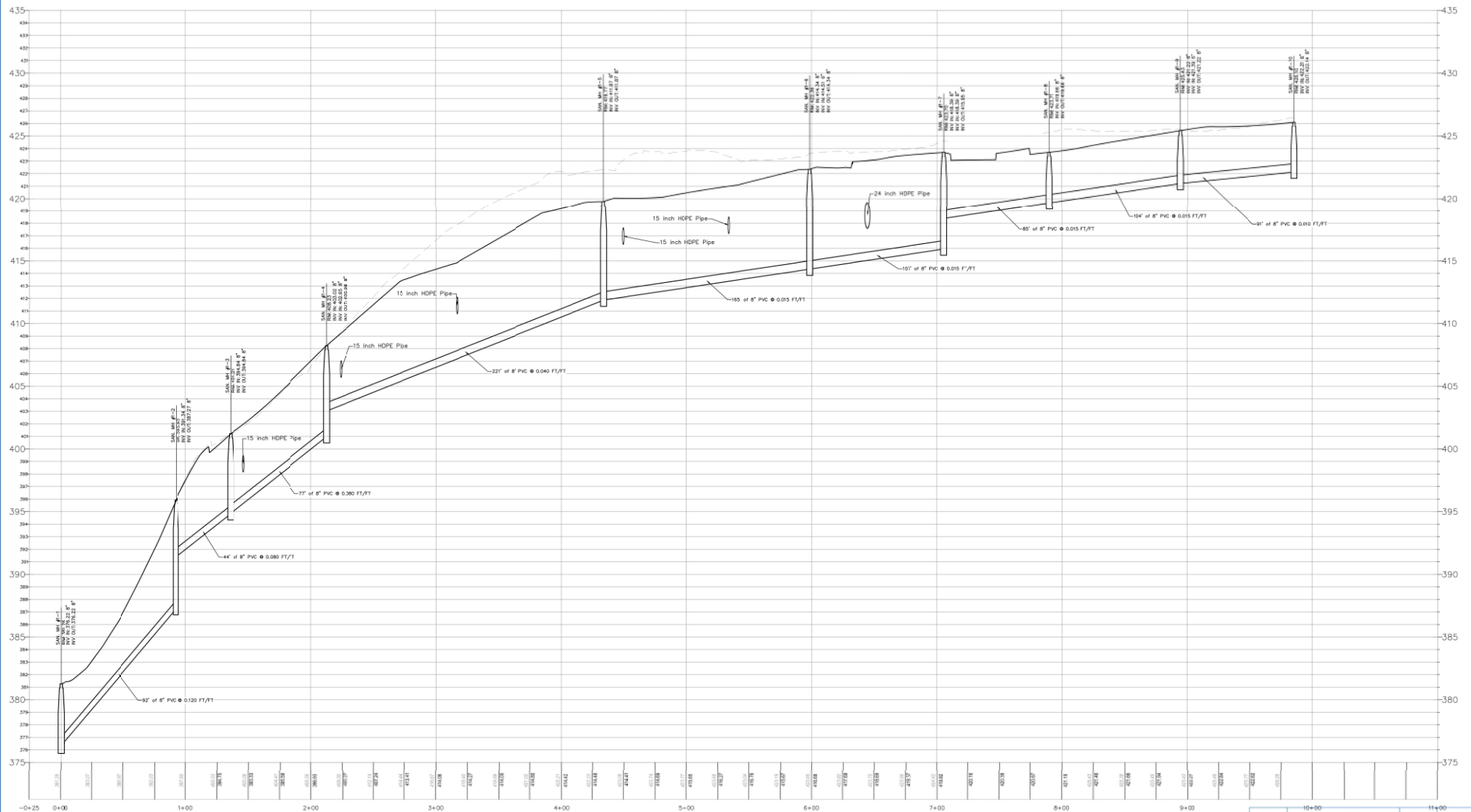


LEGEND	
EXISTING GRADE	---
PROPOSED GRADE	---

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

1	ELIMINATION OF PHASE IV	09/05/2020	JAP
2	REVISION PER JORDAN ROUSE ENGINEERING COMMENTS	11/03/2020	JAP
3	PROVIDED PER NEW BUILDING FOOTPRINT	02/03/2021	JAP
REVISION	DESCRIPTION	DATE	BY
PREPARED FOR: DAUGHTERS OF ISRAEL, INC 1105 PLEASANT VALLEY WAY BLOCK 171 LOT 12 TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY			
STORM SEWER AND BASIN PROFILES			
		Designer: JAP Checker: JAP Engineer: JAP Date: 02/03/2021 Sheet: 02 of 02	
J. MICHAEL PETRY-PE, P.E., R.A. ALP PROFESSIONAL ENGINEER LICENSE NO. 36862			SP-12

SANITARY SEWER #1 PROFILE



10:00		11:00	
5	CLIMAXION OF PHASE IV	04.05.000	JAP
2	NEW SIDE PERFORMING BOARD ENGINEER'S COMMENTS	11.05.000	JAP
1	REMOVED FOR NEW BUILDING EXISTENCE	06.05.000	JAP
REVISION	DESCRIPTION	DATE	BY

PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 1:1 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

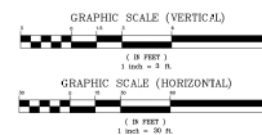
SANITARY SEWER PROFILES



J. MICHAEL PETRY-PE, PP, RA

Designer: JMF
Draftsman: JMF
Checked By: JMF
Project No.: 18-003
Scale: HORIZ. 1" = 3'
VERT. 1" = 20'

SP-13

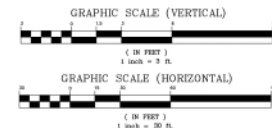
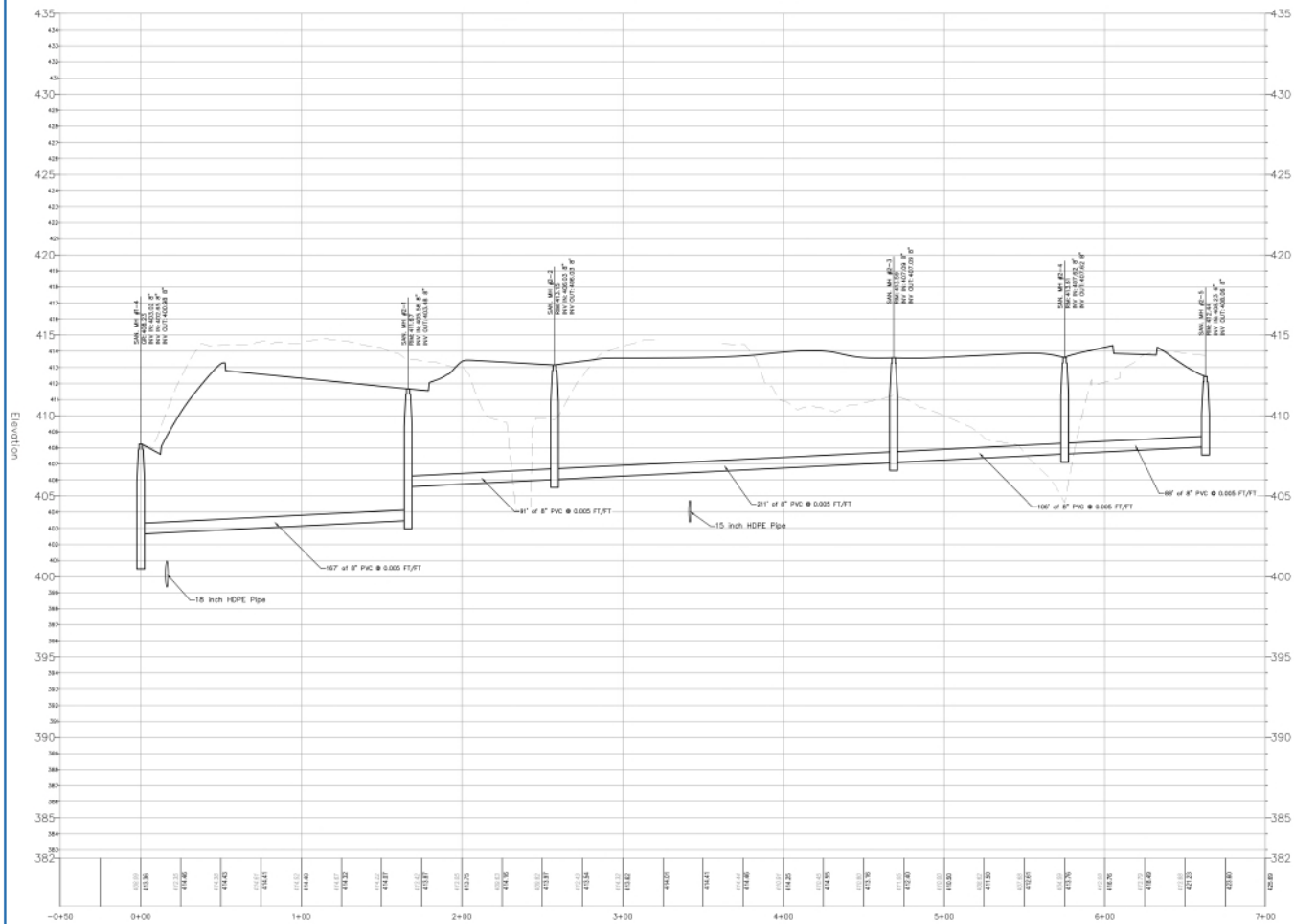


LEGEND

EXISTING GRADE ————
PROPOSED GRADE —————

CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED
IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT
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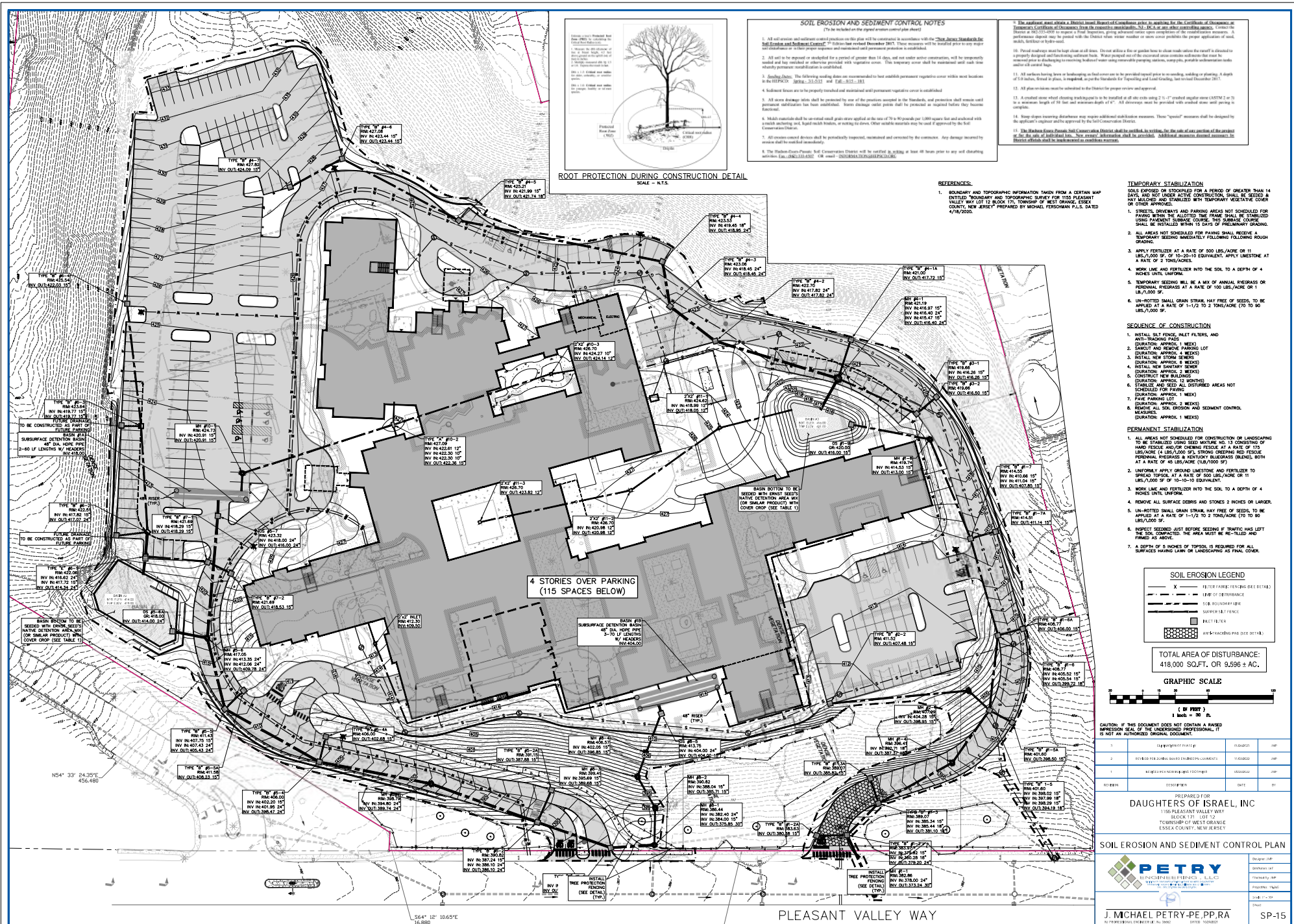
SANITARY SEWER #2 PROFILE



LEGEND	
EXISTING GRADE	---
PROPOSED GRADE	—

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

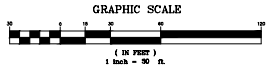
3	ELIMINATION OF PHASE IV	04/05/2020	JMP
2	REVISED PER JORDAN ROUSE ENGINEERS COMMENTS	11/03/2019	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	08/03/2019	JMP
REVISION	DESCRIPTION	DATE	BY
PREPARED FOR DAUGHTERS OF ISRAEL, INC 1105 PLEASANT VALLEY WAY BLOCK 171 LOT 12 TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY			
SANITARY SEWER PROFILES			
J. MICHAEL PETRY-PE, PP, RA AL PROFESSIONAL ENGINEER LICENSE NO. 36862 EXPIRES 12/31/2021			
Designer: JMP	Checker: JMP	Drawn: JMP	SP-14





LEGEND									
Symbol	Description	Symbol	Description	Symbol	Description	Symbol	Description	Symbol	Description
Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole
Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole
Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole
Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole
Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole
Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole
Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole
Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole
Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole

ELECTRICAL SYMBOLS									
Symbol	Description	Symbol	Description	Symbol	Description	Symbol	Description	Symbol	Description
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Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole
Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole
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Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole
Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole
Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole
Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole
Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole	Circle with cross	Proposed Light Pole	Circle with dot	Proposed Light Pole



- REFERENCES:**
- BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1150 PLEASANT VALLEY WAY LOT 12 BLOCK 175, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY" PREPARED BY MICHAEL PERSHMAN P.L.L.C. DATED 6/18/2020.
 - SUPPLEMENTAL UTILITY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "UTILITY PHOTOS MAP OF DAUGHTERS OF ISRAEL CAMPUS 1150 PLEASANT VALLEY WAY, WEST ORANGE, NJ" PREPARED BY SCOTT VAPARO 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.

1	CLIENT/PROJECT NAME	DAUGHTERS OF ISRAEL, INC.	DATE	11/05/2022
2	DESIGNED FOR/DESIGNED BY	DAUGHTERS OF ISRAEL, INC.	DATE	11/05/2022
3	APPROVED FOR/DATE	DAUGHTERS OF ISRAEL, INC.	DATE	11/05/2022
4	REVISION	DESCRIPTION	DATE	11/05/2022

PREPARED FOR:
DAUGHTERS OF ISRAEL, INC.
1150 PLEASANT VALLEY WAY
BLOCK 175, LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

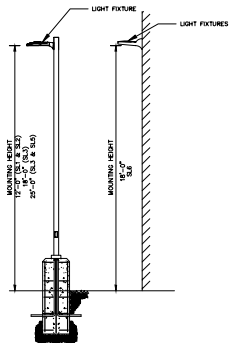
LIGHTING PLAN

PETRY ENGINEERING, LLC
1150 PLEASANT VALLEY WAY
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY 07033

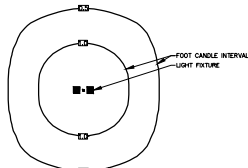
J. MICHAEL PETRY-PE, P.E.
REGISTERED PROFESSIONAL ENGINEER IN NJ, LICENSE NO. 110000001

Project: 1150
Sheet: 1150-01
Drawing: 1150-01
Scale: 1" = 50'

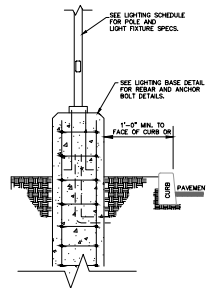
SP-16



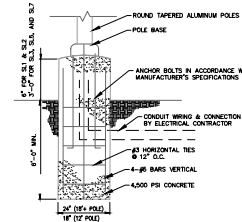
MOUNTING HEIGHT DIAGRAM
SCALE - N.T.S.



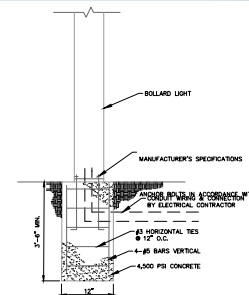
ISOLUX DIAGRAM
SCALE - N.T.S.



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



LIGHT BASE DETAIL
SCALE - N.T.S.



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

EMERLIGHTING®
PA7R
Pavilion

FEATURES

- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance

CONTROL TECHNOLOGY
Bluetooth DMX

SPECIFICATIONS

CONSTRUCTION

FINISHES

WEIGHT

INSTALLATION

WARRANTY

"BOL" FIXTURE

EMERLIGHTING®
UR20
Ouro

FEATURES

- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance

CONTROL TECHNOLOGY
NX INTELLIGENCE

SPECIFICATIONS

CONSTRUCTION

FINISHES

WEIGHT

INSTALLATION

WARRANTY

"SL1" & "SL2" FIXTURES

EMERLIGHTING®
VIPER L
Strike

FEATURES

- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance

CONTROL TECHNOLOGY
NX INTELLIGENCE

SPECIFICATIONS

CONSTRUCTION

FINISHES

WEIGHT

INSTALLATION

WARRANTY

"SL3", "SL5", & "SL7" FIXTURES

EMERLIGHTING®
WDM
Wall Director

FEATURES

- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance

CONTROL TECHNOLOGY
NX INTELLIGENCE

SPECIFICATIONS

CONSTRUCTION

FINISHES

WEIGHT

INSTALLATION

WARRANTY

"SL6" FIXTURE

Item	Quantity	Unit	Material	Manufacturer	Product Name	Size	Height	Weight	Notes
1	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	PA7R	12"	12"	12"	12"
2	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	UR20	12"	12"	12"	12"
3	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	VIPER L	12"	12"	12"	12"
4	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	WDM	12"	12"	12"	12"
5	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	PA7R	12"	12"	12"	12"
6	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	UR20	12"	12"	12"	12"
7	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	VIPER L	12"	12"	12"	12"
8	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	WDM	12"	12"	12"	12"

Item	Quantity	Unit	Material	Manufacturer	Product Name	Size	Height	Weight	Notes
1	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	PA7R	12"	12"	12"	12"
2	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	UR20	12"	12"	12"	12"
3	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	VIPER L	12"	12"	12"	12"
4	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	WDM	12"	12"	12"	12"

EMERLIGHTING®
PR4
AAL Poles

FEATURES

- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance

CONTROL TECHNOLOGY
NX INTELLIGENCE

SPECIFICATIONS

CONSTRUCTION

FINISHES

WEIGHT

INSTALLATION

WARRANTY

POLE FOR "SL1" AND "SL2" FIXTURES

EMERLIGHTING®
SSS-B Series Poles

FEATURES

- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance
- 100-watt LED luminaire for high performance

CONTROL TECHNOLOGY
NX INTELLIGENCE

SPECIFICATIONS

CONSTRUCTION

FINISHES

WEIGHT

INSTALLATION

WARRANTY

POLE FOR "SL3", "SL5", & "SL7" FIXTURES

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

Item	Quantity	Unit	Material	Manufacturer	Product Name	Size	Height	Weight	Notes
1	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	PA7R	12"	12"	12"	12"
2	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	UR20	12"	12"	12"	12"
3	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	VIPER L	12"	12"	12"	12"
4	1	ft	12" TALL TOWER LIGHT FIXTURE	EMERLIGHTING	WDM	12"	12"	12"	12"

PREPARED FOR:
DAUGHTERS OF ISRAEL, INC.
1100 PLEASANT VALLEY WAY
BLOCK 171, LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

LIGHTING DETAILS

PETRY ENGINEERING, LLC
1100 PLEASANT VALLEY WAY
BLOCK 171, LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

J. MICHAEL PEPPER, P.E.
1100 PLEASANT VALLEY WAY
BLOCK 171, LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

SP-17

GENERAL NOTES:

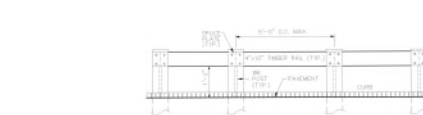
1. ALL SITE IMPROVEMENTS TO BE PERFORMED IN ACCORDANCE WITH ADOPT SPECIFICATIONS (LATEST EDITION) UNLESS OTHERWISE NOTED.
2. THESE PLANS REPRESENT THE OVERALL SITE WORK IMPROVEMENTS REQUIRED FOR THE PROJECT CONSTRUCTION. THE CONTRACTOR SHALL FURNISH, INSTALL, TEST, AND COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER. THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. AS SUCH, THESE PLANS DO NOT CONSTITUTE A GUARANTEE OF THE INTENDED TO REPRESENT, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITE WORK CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING ALL IMPROVEMENTS DERIVED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS, AND LAWS IN EFFECT AT THE TIME OF CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR CONSTRUCTION IN ACCORDANCE WITH EXISTING LOCAL, COUNTY OR STATE REGULATIONS, OR ANY OTHER AGENCIES HAVING JURISDICTION IN THESE MATTERS.
4. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LOCATION OF THE UTILITIES WITH THE UTILITY DEPARTMENTS PRIOR TO CONSTRUCTION.
5. THE DRAWINGS SHOW THE EXISTING CONDITIONS WHICH ARE LIKELY TO AFFECT THE PROTECTION OF THE WORK INsofar AS THEY HAVE BEEN DETERMINED. THESE DRAWINGS SHOULD NOT BE USED FOR SCALING OF DIMENSIONS OR FOR DETERMINING RIGHT-OF-WAY AND PROPERTY LIMITS.
6. THE LOCATION OF EXISTING SUBSTRUCTURES AND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS OF SURFACE EVIDENCE AND CERTAIN INFORMATION CONTAINED IN THE PUBLIC RECORDS AND RECORD DATA PROVIDED BY THE OWNER. THIS PLAN IN NO WAY REPRESENTS A GUARANTEE OF THE ACCURACY OF THE LOCATION OF THESE PLOTTED LOCATIONS. ADDITIONALLY, THESE PLANS MAKE NO GUARANTEE THAT UTILITIES AND/OR SUBSTRUCTURES ARE THE ONLY SUBSURFACE STRUCTURES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER BRACING OF EXISTING UTILITIES AS MAY BE REQUIRED TO PREVENT DAMAGE DUE TO CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL ARRANGE FOR PROPER BRACING OF ALL EXISTING UTILITIES, UTILITY POLES, AND OTHER STRUCTURES WITHIN THE VICINITY OF THE WORK WHICH MAY BE AFFECTED BY HIS OPERATIONS. ALL COST ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES BID FOR THE CONTRACT WORK.
8. THE COORDINATION OF THE LOCATION OR RELOCATION, WHERE REQUIRED, OF TELEPHONE, ELECTRIC, GAS, WATER, AND ETC. IS THE RESPONSIBILITY OF THE CONTRACTOR, AND THE SAME SHALL BE COORDINATED TO ENSURE COMPLETION WITHIN THE TIME PERMITTED.
9. THE CONTRACTOR SHOULD NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON AND OR IF SUCH CONDITIONS IN THE CONTRACTOR'S OPINION WOULD OR COULD RENDER THE DESIGN SHOWN HEREON INAPPROPRIATE OR INADEQUATE.
10. EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO DISPOSE OF THE MATERIAL AT A SUITABLE LOCATION, DISPOSAL OF ALL MATERIAL, GRADING AND RESTORING THE DISPOSAL SITES, AND OBTAINING ANY PERMITS SHALL BE PERFORMED AT THE SOLE COST OF THE CONTRACTOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING IN ADVANCE OF PIPEWORK TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, AND DEPTH OF EXISTING UTILITY NOTED ON THE DRAWINGS PRIOR TO CONSTRUCTION. EXCEPT FOR THE EXCAVATION OF TEST PITS AS NOTED ON THE DRAWINGS OR WHEN DIRECTED BY THE ENGINEER, NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK BUT SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES BID FOR THE CONTRACT WORK.
12. THE CONTRACTOR SHALL SUPPLY AND ERECT NECESSARY WARNING SIGNS AND PROPER TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE WEST ORANGE POLICE DEPARTMENT. THE CONTRACTOR SHALL FURNISH FLAGMEN AS MAY BE REQUIRED TO MAINTAIN TRAFFIC. THE CONTRACTOR SHALL CONTACT THE POLICE DEPARTMENT PRIOR TO STARTING ANY WORK AND NOTIFY THEM OF HIS PROPOSED OPERATIONS.
13. THE CONTRACTOR SHALL BACKFILL AND PAVE ANY OPEN TRENCH AT THE END OF EACH DAY AND SHALL TAKE ANY NECESSARY PRECAUTION TO PROVIDE A SAFE AND ACCESSIBLE WORK AREA FOR VEHICULAR AND PEDESTRIAN TRAFFIC.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING VEHICLE ACCESS TO ALL DRIVEWAYS, BUILDING ENTRANCES, AND SIDE STREETS ALONG THE CONSTRUCTION ROUTE TO THE MAXIMUM EXTENT PRACTICABLE.
15. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS, AND WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER IS MORE STRINGENT).
16. THE CONTRACTOR SHALL BRACE AND SUPPORT ALL EXISTING CURB IN THE IMMEDIATE VICINITY OF THE CONSTRUCTION WORK. PLANKS CUB IN BE PLACED OVER CURBS TO PREVENT DAMAGE BY THE CONTRACTOR'S EQUIPMENT. ANY CURB WHICH IS DAMAGED, DISTURBED, OR REMOVED IN AREAS OTHER THAN WHERE THE PIPELINE CROSSES EXISTING CURBING, AS SHOWN ON THE DRAWINGS, SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. CURB SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE DRAWINGS.
17. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE OF NJ WORKERS HEALTH AND SAFETY ACT (N.J.A.C. 12-110 ET. SEQ.) AS AMENDED AND THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) (29 CFR 1910), AS AMENDED WITH REGARD TO WORKER AND JOB SITE SAFETY.
18. THE CONTRACTOR SHALL CONTRACT WITH THE (TOWNSHIP OF WEST ORANGE) TO PROVIDE UNIFORMED POLICE FLAGMEN AS NECESSARY FOR WORK CONDUCTED WITHIN ROADWAYS.
19. SELECT FILL SHALL BE EITHER CLASS 1 OR B SOIL.

DEMO NOTES:

1. DISCONNECTION OF EXISTING UTILITY SERVICES SHALL BE COORDINATED WITH THE OWNER AND IN ACCORDANCE WITH THE REGULATIONS OF THE UTILITY AUTHORITY CONCERNED. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH WRITTEN CONFIRMATION FROM UTILITY COMPANIES THAT ALL SERVICE TO THE SITE HAS BEEN TERMINATED PRIOR TO CAPPING, ABANDONMENT, OR REMOVAL OF ANY SUCH UTILITIES.
2. EXISTING BUILDINGS, STRUCTURES, CURBS, UTILITIES, SIGNS, LANDSCAPING, AND ANY OTHER IMPROVEMENTS NOT DESIGNATED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE. SHOULD DAMAGES OCCUR, THE OWNER SHALL BE NOTIFIED IMMEDIATELY, AND REPAIRS SHALL BE MADE TO MATCH EXISTING CONDITIONS AT THE CONTRACTOR'S EXPENSE.
3. ALL CONCRETE, CURB, PAVEMENT, AND BRICK MATERIAL DESIGNATED FOR DEMOLITION SHALL BE COMPLETELY REMOVED FROM THE SITE, INCLUDING, BUT NOT LIMITED TO, SLABS, FLOORS, BARRIERS, CURBS, AND SIDEWALKS.
4. WALLS, BEAMS, COLUMNS, FLOOR, SLABS, PAVEMENTS, RAMPS, FOOTINGS, AND ALL OTHER BUILDING COMPONENTS OR APPURTENANCES DESIGNATED FOR REMOVAL SHALL BE COMPLETELY REMOVED FROM THE SITE. THE RESULTING DEPRESSIONS SHALL BE FILLED AND COMPACTED AS DIRECTED, USING ONLY SATISFACTORY MATERIAL FROM ON-SITE MATERIAL OR APPROVED MATERIAL FROM OFF-SITE. NO DEBRIS FROM DEMOLITION OR OTHER UNSUITABLE MATERIAL SHALL BE USED. IN SPECIAL CASES, DEEP-SEALED CONCRETE OR MASONRY STRUCTURES WHICH SHALL NOT INTERFERE WITH SUBSEQUENT CONSTRUCTION MAY REMAIN IN PLACE IF SO APPROVED BY THE OWNER'S ENGINEER.
5. FOLLOWING THE DEMOLITION AND REMOVAL OF ALL IMPROVEMENTS SO DESIGNATED, THE DISTURBED AREA SHALL BE GRAZED, AS DIRECTED BY THE OWNER'S ENGINEER, SO THAT THE RESULTING LANDFORM SHALL NOT ALLOW FOR PONDING OR THE FORMATION OF GULLIES RESULTING FROM STORMWATER RUN-OFF.
6. CONTRACTOR SHALL SECURE ALL PERMITS REQUIRED FOR WORK. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL MATERIAL.
7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REMOVAL OF ANY EXISTING SITE LIGHTING WITH THE APPROPRIATE UTILITY COMPANY. LIGHT POLES SHALL BE REMOVED AND DISPOSAL OF AS REQUIRED.

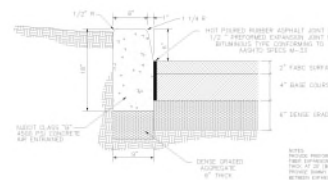
UTILITY NOTES:

1. EXCESS EXCAVATED MATERIAL WILL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR WILL MAKE ARRANGEMENTS TO DISPOSE OF THE MATERIAL AT A SUITABLE LOCATION, DISPOSAL OF ALL MATERIAL, GRADING AND RESTORING THE DISPOSAL SITES, AND OBTAINING ANY PERMIT WILL BE PERFORMED AT THE SOLE COST OF THE CONTRACTOR.
2. THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR DUCTILE IRON PIPE SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS AND ANNA STANDARDS.
3. PROVIDE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES BETWEEN WATER LINES AND UTILITIES OR OBSTRUCTIONS, UNLESS OTHERWISE SHOWN.
4. ALL FITTINGS ARE TO BE MECHANICAL JOINT WITH RETAINER GLANDS. HOWEVER, SOME FITTINGS SHALL REQUIRE THE INSTALLATION OF THRUST BLOCKS AS SHOWN IN THE DRAWINGS. PROVIDE CONCRETE THRUST BLOCKS IN ACCORDANCE WITH DETAILS OR AS NOTED IN THE DRAWINGS, OR AS REQUIRED BY SPECIFIC SOIL CONDITIONS ENCOUNTERED. TYPICAL THRUST BLOCK REACTION DETAILS SHOWN ON THE DRAWINGS ARE MINIMUM REQUIREMENTS. WHERE GALVANIZED ROOF ARE TO BE USED FOR ANCHORING FITTINGS OR VALVES, THE COST OF SUCH MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR DUCTILE IRON FITTINGS AND GATE VALVES.
5. NOTIFY THE ENGINEER, WATER, AND FIRE DEPARTMENTS 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING WATER MAINS.
6. THE CONTRACTOR SHALL INSTALL TEMPORARY AIR RELEASE TAPS, AND SAMPLING TAPS WITH COPPER SAMPLING PIPE FOR TESTING AND DISINFECTION AS NEEDED OR AS REQUIRED BY THE ENGINEER. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE THE SAMPLING PIPE AND CLOSE OFF THE TAP AT THE MAIN AFTER COMPLETION OF ALL TESTING AND WHEN APPROVED BY THE ENGINEER. THE FURNISHING, INSTALLATION, AND REMOVAL OF TAPS AND PIPE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR TESTING AND DISINFECTION.
7. THE GENERAL LOCATION OF FIRE HYDRANTS AND CURB BOXES ARE SHOWN ON THE DRAWINGS. HYDRANTS AND CURB BOXES SHALL BE LOCATED IN THE FIELD BY THE WATER DEPARTMENT PRIOR TO CONSTRUCTING THE WATER MAIN, DUE TO FUTURE ROAD RECONSTRUCTION WHICH SHALL RESULT IN THE RELOCATION OF EXISTING CURB AND CHANGES TO THE GRADE. THE WATER DEPARTMENT SHALL PROVIDE THE FINISHED GRADE ELEVATION FOR SETTING THE HYDRANT AND VALVE BOX.
8. ANY EXISTING FIRE HYDRANTS TO BE REMOVED SHALL BE DELIVERED TO THE WATER DEPARTMENT YARD.
9. THE APPROXIMATE LOCATION OF WATER SERVICE CONNECTIONS IS SHOWN IN THE DRAWINGS; THE EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY OWNER.
10. CONSTRUCTION AND TRANSFER OF SERVICES SHALL ONLY BE PERFORMED AFTER THE MAIN HAS BEEN TESTED AND DISINFECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THIS INCLUDES THE INSTALLATION OF SERVICE CONNECTIONS.
11. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL AND/OR MEP DRAWINGS FOR ACTUAL LOCATIONS OF ALL UTILITY ENTRANCES, INCLUDING BUT NOT LIMITED TO DOMESTIC WATER SERVICE, FIRE WATER SERVICE, GAS, SANITARY, ELECTRIC, AND ETC.
12. THE MINIMUM EARTH COVER OVER ALL NEW WATER MAINS SHALL BE 4 FEET UNLESS OTHERWISE INDICATED ON DRAWINGS. THE PIPE SHALL BE DUCTILE IRON, CEMENT LINED WITH RESTRAINED PUSH-ON JOINTS UNLESS OTHERWISE INDICATED. PIPE CLASSIFICATION FOR THE WATER MAINS SHALL BE CLASS 52. ALL FITTINGS SHALL BE DUCTILE IRON CEMENTS-LINED WITH MECHANICAL JOINTS, WITH RETAINER GLANDS CLASS 350 UNLESS OTHERWISE INDICATED ON DRAWINGS OR REQUIRED BY THE ENGINEER. ALL PIPE AND FITTINGS SHALL BE POLYETHYLENE ENCLOSED.
13. THE MINIMUM EARTH COVER OVER ALL OTHER UTILITIES IS TO BE 2' FEET UNLESS OTHERWISE INDICATED ON DRAWINGS.
14. WHERE EXISTING MAINS ARE TO BE ABANDONED IN PLACE, ALL OPENINGS FROM CUT PORTIONS SHALL BE COMPLETELY SEALED WITH NON-SHRINK QUICK-SETTING CEMENT, AS APPROVED BY THE ENGINEER. DO NOT BACKFILL UNTIL THE CEMENT IS CURED.
15. INSTALLATION OF NEW COPPER SERVICES SHALL BE PERFORMED BY OPEN TRENCH EXCAVATION IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS. THE EMPLOYMENT OF ALTERNATIVE METHODS SHALL NOT BE PERMITTED.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER BRACING OF EXISTING UTILITIES AS MAY BE REQUIRED TO PREVENT DAMAGE DUE TO CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL ARRANGE FOR PROPER BRACING OF ALL EXISTING UTILITIES, UTILITY POLES, AND OTHER STRUCTURES WITHIN THE VICINITY OF THE WORK WHICH MAY BE AFFECTED BY THEIR OPERATIONS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES BID FOR THE CONTRACT WORK.
17. WORK PERFORMED ON COUNTY ROADS SHALL BE LIMITED TO THE HOURS OF 8:00 A.M. TO 4:00 P.M. UNLESS OTHERWISE PERMITTED BY THE COUNTY.
18. ALL UTILITIES TO BE ABANDONED SHALL BE ABANDONED IN THE STREET ACCORDING TO ALL APPLICABLE CODES.



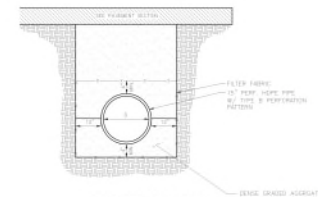
TIMBER GUIDE RAIL DETAIL

SCALE: 1/2" = 1'-0"



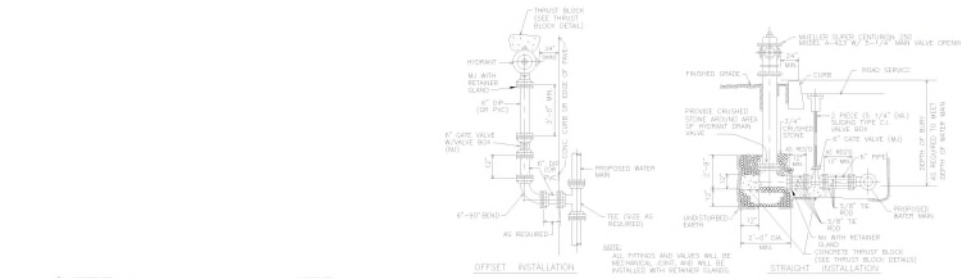
CONCRETE CURB AND FULL DEPTH PAVEMENT
(WITHIN ESSEX COUNTY R.O.W.)

SCALE: 1/2" = 1'-0"



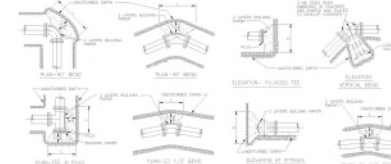
PIPE TRENCH DETAIL
(WITHIN ESSEX COUNTY R.O.W.)

SCALE: 1/2" = 1'-0"



TYPICAL HYDRANT DETAILS

SCALE: 1/2" = 1'-0"



THRUST BLOCK DETAILS

SCALE: 1/2" = 1'-0"

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

NO.	DESCRIPTION OF ITEM	QUANTITY	UNIT
1	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
2	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
3	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
4	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
5	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
6	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
7	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
8	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
9	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
10	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
11	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
12	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
13	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
14	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
15	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
16	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
17	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
18	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
19	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET
20	DESIGN FOR DRAINAGE IMPROVEMENTS	1	SHEET

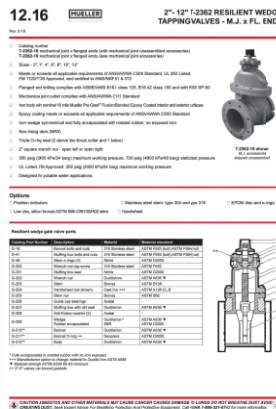
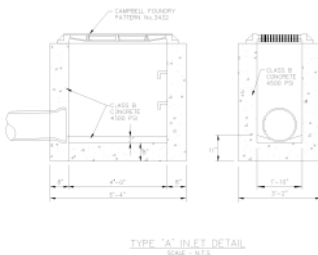
PREPARED FOR:
DAUGHTERS OF ISRAEL, INC
1100 PLEASANT VALLEY WAY
BLOCK 171 LOT 11
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

CONSTRUCTION NOTES

PETRY
ENGINEERING, LLC
1100 PLEASANT VALLEY WAY
BLOCK 171 LOT 11
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

J. MICHAEL PETRY-PE, PP, RA
REGISTERED PROFESSIONAL ENGINEER - NO. 000000000
SAFETY NUMBER: 000000000

SP-18



3	ALLOCATION OF PAGES 12	6/20/2023	JMP
2	REVISED PER ARCHITECT'S COMMENTS	11/23/2022	JMP
1	REVISED FOR NEW BUILDING CONTRACT	09/05/2022	JMP
REVISION	DESCRIPTION	DATE	BY

PREPARED FOR
DAUGHTERS OF ISRAEL, INC
 1155 PLEASANT VALLEY WAY
 BLOCK 11, LOT 13
 TOWNSHIP OF WEST ORANGE
 ESSEX COUNTY, NEW JERSEY

CONSTRUCTION DETAILS



PETRY
 ENGINEERING, LLC
INCORPORATED IN NEW JERSEY
 1000 ROUTE 100, SUITE 200
 WEST ORANGE, NJ 07063
 TEL: 973-261-8800
 FAX: 973-261-8801
 WWW.PETRY-PE.COM



J. MICHAEL PETRY-PE, P.P., RA
 A PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY

Designer: JMP Checker: JMP Drafter: JMP Project No.: 19-025 Scale: 1/2" = 1'-0" Date:	SP-20
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NOTES

1. MODULAR BLOCK WALLS SHALL BE CONSTRUCTED WITH STANDARD WALL UNITS AS MANUFACTURED BY KEYSTONE RETAINING WALL SYSTEMS, INC. OR ACCEPTED EQUAL. COORDINATE AND COLOR OF UNITS WITH OWNER.
2. INSTALLATION OF MODULAR BLOCK WALLS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS AND SPECIFICATIONS.
3. COORDINATE STYLE AND COLOR OF UNITS WITH OWNER.
4. WALLS SHALL STEP IN ELEVATION AT BOTH TOP AND BOTTOM AS REQUIRED TO CONFORM WITH PROPOSED FINISHED GRADE AT THE TOP OF THE WALL AND EXISTING GRADE AT THE BOTTOM OF THE WALL. AMPLIFICATION OF BLOCK, CAP STONE, AND CHISELED STONE BASE AT WALL STEPS SHALL CONFORM TO MANUFACTURER'S STANDARD RECOMMENDATIONS.
5. OUT SECOND REINFORCING AS REQUIRED TO ACCOMMODATE GUERLIER FOUNDATION CONCRETE. DO NOT OMIT FABRI; ENTIRELY AT GUERLIER FOUNDATION LOCATIONS.

GENERAL NOTES

BUILDING CODE

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF N.J.A.C. 17:27, UNIFORM CONSTRUCTION CODE REGULATORY, LATEST EDITION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CODE, WITH THE SPECIFICATION, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL, AGENCIES HAVING JURISDICTION.

GENERAL

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STUCCO, BRACING, SHEETPILE SHORING, ETC.
2. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL STRUCTURAL ELEVATIONS AND DIMENSIONS WITH EXISTING CONDITIONS AND WITH OTHER PROJECT DRAWINGS. COORDINATE LOCATION OF SLEEVES AND OPENINGS THROUGH THE STRUCTURE, SLAB DEFLECTIONS, FLOOR GRADES, INTERIORS, AND OTHER RELATED ITEMS.
3. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CORRECTNESS OF UNDESIGNED OR QUANTITIES AND FOR THE FITTED TO OTHER WORK. FOR WORK TO BE COMPLETED AND CORRELATED AT THE SITE FOR INFORMATION PERTAINING TO THE FABRICATION PROCEDURE OF THE MATERIALS, METHODS AND PROCEDURES, COORDINATE WITH THE WORK OF ALL OTHER TRADES. THE VERIFICATION OF THE PHYSICAL INTERRELATIONSHIPS OF ELEMENTS OF THE WORK FROM PLANS AND SPECIFICATIONS AND IN THE FIELD IS THE CONTRACTOR'S SOLE RESPONSIBILITY. REVIEW OF THE CONTRACTOR'S SUBMITTALS DOES NOT RELIEVE THE CONTRACTOR FROM THESE RESPONSIBILITIES.
4. PROPOSED OPENINGS OR ACCESSORIES IN THE STRUCTURE WHICH ARE NOT SHOWN IN THE STRUCTURAL DRAWINGS, EITHER DIRECTLY OR BY TYPICAL DETAIL, SHALL BE SUBMITTED FOR ACCEPTANCE.
5. IN CASE OF CONTRADICTION BETWEEN THE DRAWINGS, THE SPECIFICATIONS, AND THE CODES, OR IF ANY CHANGE IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY. NO CHANGE SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.

FOUNDATIONS

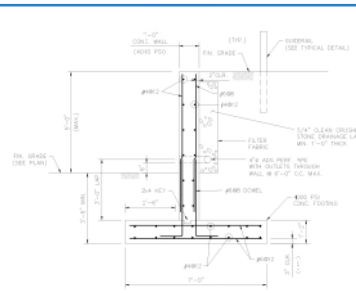
1. FOUNDATIONS HAVE BEEN DESIGNED TO AN ALLOWABLE SOIL BEARING PRESSURE OF 4,000 PSF ON UNIFORM SOIL. SHOULD CONDITIONS VARY FROM THOSE ASSUMED, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED BEFORE CONTINUATION OF WORK.
2. ALL FOOTINGS SHALL BE PLACED DIRECTLY ON UNIFORM SOIL. CERTIFIED COMPACTED FILL OR POOD.
3. CONCRETE FOR FOUNDATIONS:
 - A. ALL CONCRETE WORK SHALL CONFORM TO REQUIREMENTS OF THE A.C.I. BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE (318-02 ULTIMATE STRENGTH DESIGN).
 - B. ALL CONCRETE SHALL BE MIXED, TRANSPORTED, AND PLACED IN ACCORDANCE WITH ACD STANDARDS 318, 304, AND 305, LATEST EDITIONS.
 - C. PROVIDE CONCRETE WITH THE FOLLOWING PROPERTIES:
 - FC (PSI) COURSE
 - AD (PSI) LOCATION
 - 4000 NORMAL WEIGHT
 - S.D.N.
4. SEE REINFORCED CONCRETE NOTES FOR ADDITIONAL INFORMATION.
5. ALL FILL SHALL BE PLACED IN TWELVE (12) INCH LIFTS (MAXIMUM) COMPACTED TO PROVIDE 95% W MAXIMUM DRY DENSITY BELOW PROPOSED FOOTINGS AND SLABS.
6. ALL EXTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 5'-8" BELOW FINISH GRADE WHEN BEARING ON SOIL.
7. DRAINAGES SHALL BE PROVIDED AS REQUIRED SO THAT INCAVATION, CONCRETE WORK AND BACKFILL ARE TO BE PERFORMED IN THE DRY.
8. BACKFILL AGAINST FOUNDATION WALLS OR CMU RETAINING WALLS SHALL NOT BE PERFORMED FOR A MINIMUM OF SEVEN (7) DAYS AFTER CONSTRUCTION IS COMPLETED.
9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE BOTTOM OF FOOTING ELEVATION IS CHANGED AND OBTAIN REISED DESIGN OF THE FOUNDATION WALLS AS REQUIRED.

REINFORCED CONCRETE

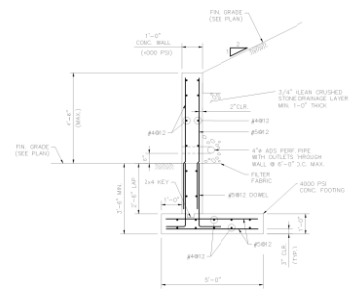
1. ALL CONCRETE SHALL CONFORM TO REQUIREMENTS OF THE A.C.I. 301, 304, AND ACD 318, LATEST EDITIONS.
2. THE CONCRETE MIX SHALL CONFORM TO THE PROVISIONS FOR CONCRETE QUALITY CONTAINED IN CHAPTER 5, ACD 3.8. COMPRESSIVE STRENGTH, FC, IS MEASURED AT 28 DAYS AG.
3. PROVIDE CONCRETE WITH THE FOLLOWING PROPERTIES:
 - FC (PSI) COURSE
 - AD (PSI) LOCATION
 - 4000 NORMAL WEIGHT
 - S.D.N.
4. UNLESS OTHERWISE NOTED:
 - A. ALL REINFORCED BARS SHALL BE DEFORMED BARS OF NEW BULLET STEEL CONFORMING TO ASTM A615, GRADE 60.
 - B. ALL WELDED WIRE MESH SHALL CONFORM TO ASTM A185.
 - C. SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED, REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY IN ACCORDANCE WITH ACD 318.
 - D. REINFORCING BAR DEVELOPMENT LENGTHS, AS COMPUTED IN ACCORDANCE WITH ACD 318, FORM THE BASIS FOR BAR INCURSED LENGTHS AND BAR SPICE LENGTHS SHOWN IN THE DRAWINGS. APPLY APPROPRIATE MODIFICATION FACTORS FOR TOP-STEEL, BAR SPLICING COVER, AND THE LIKE.
 - E. DETAILING OF REINFORCING STEEL SHALL CONFORM TO ACD MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (EAC 315).
 - F. LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACD 318, AND ACCEPTANCE OF THE ENGINEER.
 - G. SPLICING OF WWP AT ALL SPLICED EDGES SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS 2 INCHES, NOR LESS THAN 6 INCHES.
 - H. BENDING OF REINFORCING BARS IS NOT PERMITTED UNLESS SPECIFICALLY CALLED OUT.
 - I. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY VIBRATION OR CONCRETE PLACEMENT. THE WIRE SHALL BE 16 GAUGE CONFORMING TO ASTM A615.
 - J. REINFORCING STEEL SUPPORTED BY THE GROUND SHALL BE PLACED ON PRECAST BLOCKS PRODUCED SPECIFICALLY FOR THE INTENDED PURPOSE.
 - K. BAR SUPPORTS SHALL BE SELF-ANCHORED METAL WITH PLASTIC TIPS.
 - L. REINFORCING STEEL SHALL BE PLACED TO PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER, UNLESS OTHERWISE INDICATED:
 - SLABS/FOOTINGS/FOUNDATIONS 2"
 - WALLS 2"
 - M. NON-SHRINK GROUT SHALL BE PREPARED AND BAGGED BY MANUFACTURER. ACCEPTABLE NON-SHRINK GROUT: MACROFILL PUTS BY MASTER BUILDERS OR ACCEPTED BY THE ENGINEER.

MODULAR BLOCK

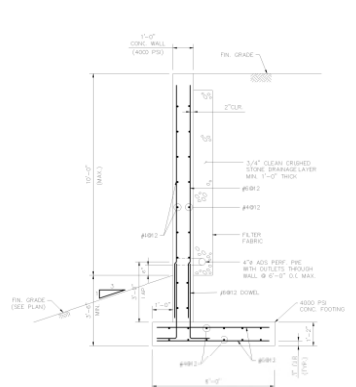
1. MODULAR BLOCK WALLS SHALL BE CONSTRUCTED WITH COMPACT 4 UNIT AS MANUFACTURED BY KEYSTONE RETAINING WALL SYSTEMS, INC. OR ACCEPTED EQUAL. COORDINATE AND COLOR OF UNITS WITH OWNER.
2. INSTALLATION OF MODULAR BLOCK WALLS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS AND SPECIFICATIONS.
3. COORDINATE STYLE AND COLOR OF UNITS WITH OWNER.
4. WALLS SHALL STEP IN ELEVATION AT BOTH TOP AND BOTTOM AS REQUIRED TO CONFORM WITH PROPOSED FINISHED GRADE AT THE TOP OF THE WALL AND EXISTING GRADE AT THE BOTTOM OF THE WALL. AMPLIFICATION OF BLOCK, CAP STONE, AND CHISELED STONE BASE AT WALL STEPS SHALL CONFORM TO MANUFACTURER'S STANDARD RECOMMENDATIONS.
5. OUT SECOND REINFORCING AS REQUIRED TO ACCOMMODATE GUERLIER FOUNDATION CONCRETE. DO NOT OMIT FABRIC ENTIRELY AT GUERLIER FOUNDATION LOCATIONS.



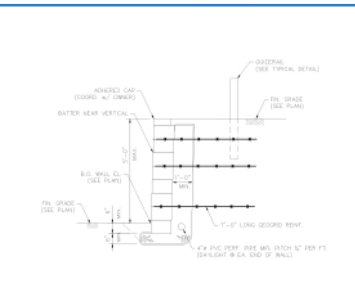
5'-0" CONCRETE RETAINING WALL "A"



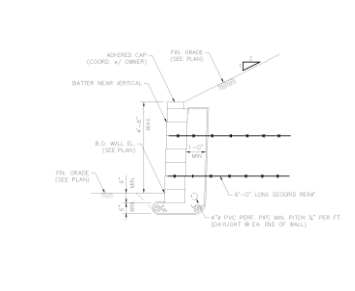
4'-6" CONCRETE RETAINING WALL "C", "D", "E", AND "F"



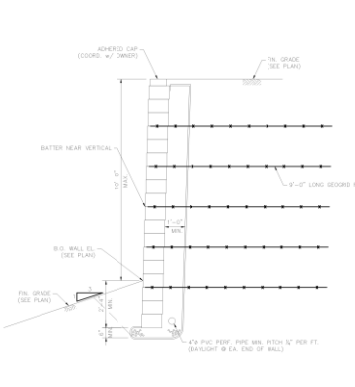
10'-0" CONCRETE RETAINING WALL "B"



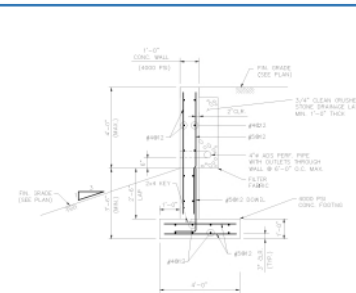
5'-0" MODULAR BLOCK RETAINING WALL "A"



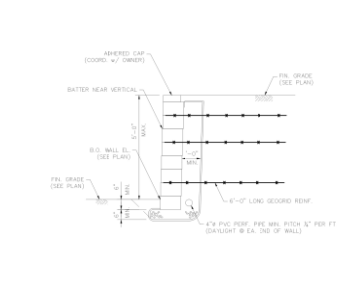
4'-6" MODULAR BLOCK RETAINING WALL "C", "D", "E", AND "F"



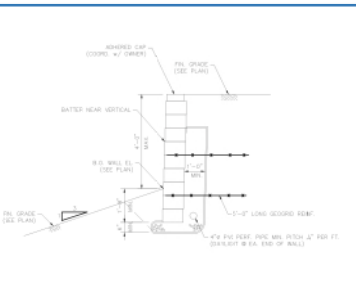
10'-0" MODULAR BLOCK RETAINING WALL "B"



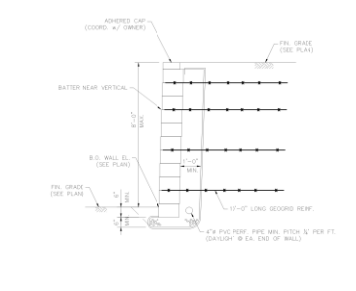
4'-0" CONCRETE RETAINING WALL "B"



5'-0" MODULAR BLOCK RETAINING WALL "G"



4'-0" MODULAR BLOCK RETAINING WALL "B"



8'-0" MODULAR BLOCK RETAINING WALL "C"

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

NO.	DESCRIPTION OF PHASE OF	DATE	APP.
1	REVISED FOR JOURNAL REVIEW COMMENTS	11/08/2023	JMP
2	REVISED FOR NON-DRAINAGE/OUTSTAY	10/08/2023	JMP
3	REVISION	06/07	BY

PREPARED FOR
DAUGHTERS OF ISRAEL, INC.
1718 PLEASANT VALLEY WAY
BLOCK 17 - LOT 13
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

RETAINING WALL DETAILS

	Designed by: JMP Drafted by: JMP Checked by: JMP Printed by: 10/08/2023 Scale: 1/8"=1'-0" Sheet: 10/08/2023
J. MICHAEL PETRY-FE, P.P.R.A. REGISTERED PROFESSIONAL ENGINEER EXPIRATION DATE: 12/31/2024	SP-22