

PRELIMINARY AND FINAL MAJOR SITE PLAN

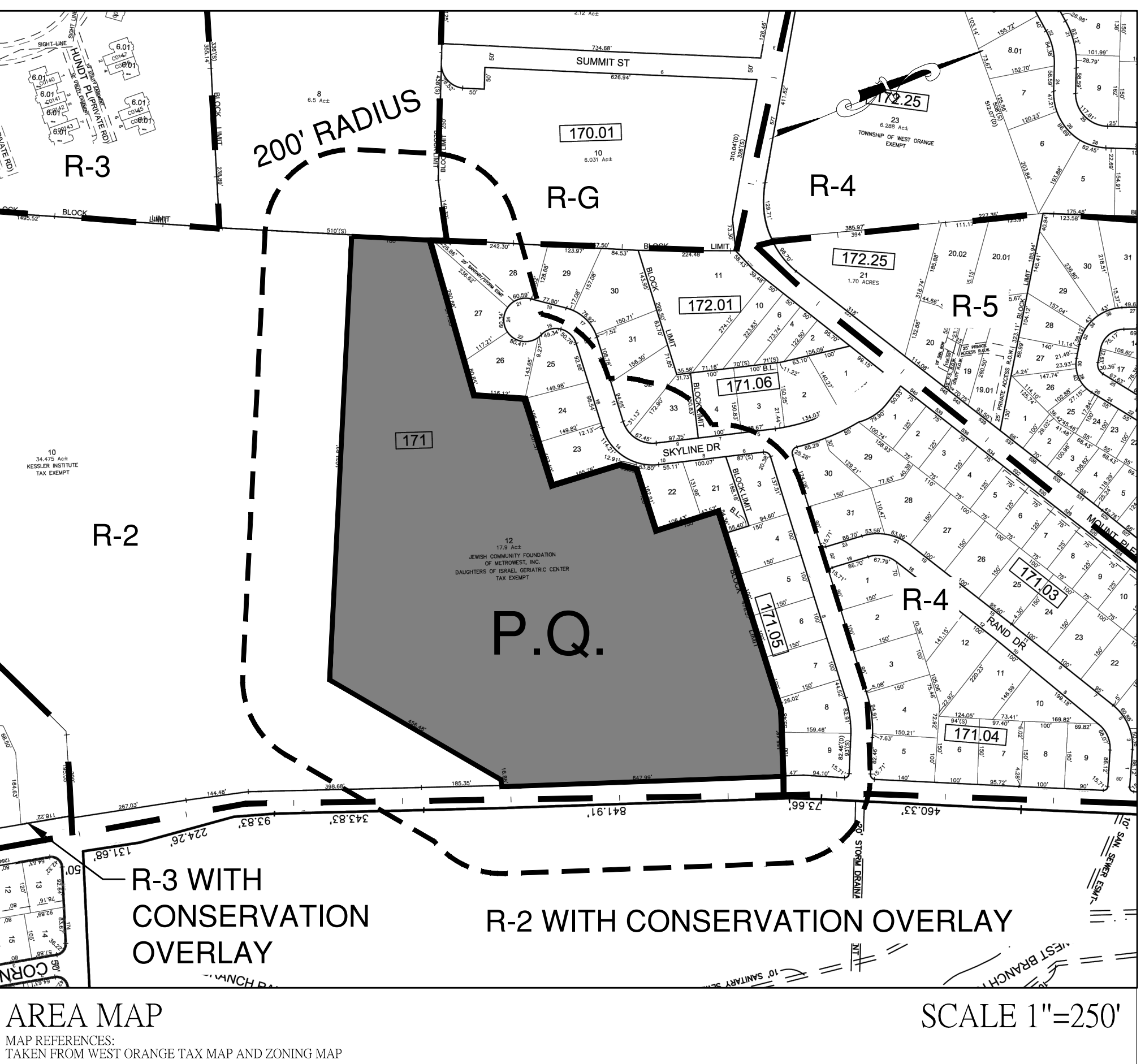
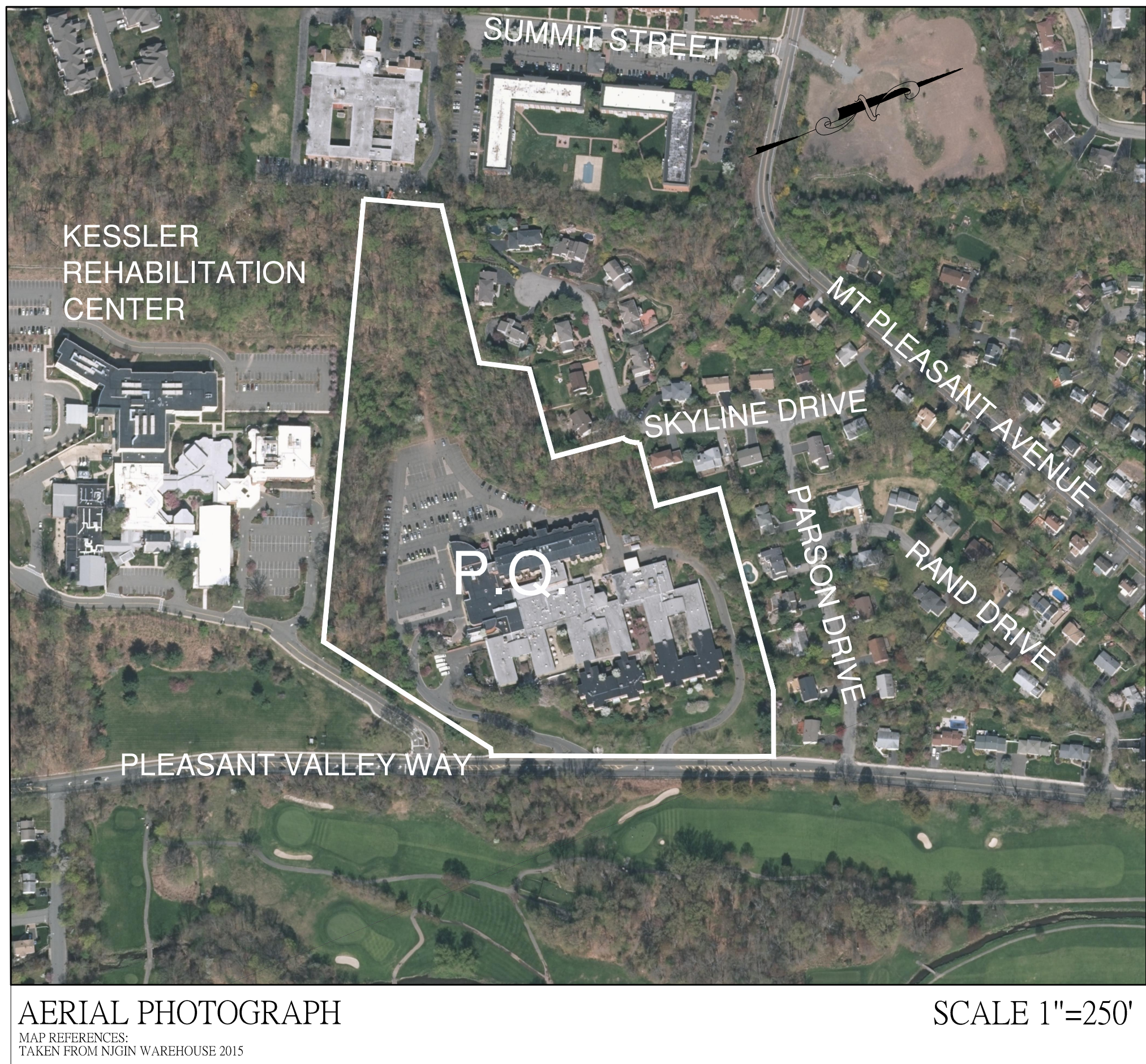
PREPARED FOR DAUGHTERS OF ISRAEL, INC

1155 PLEASANT VALLEY WAY

BLOCK 171 LOT 12

TOWNSHIP OF WEST ORANGE

ESSEX COUNTY, NEW JERSEY



GENERAL NOTES:

1. THE STORMWATER MAINTENANCE MANUAL AND ANY FUTURE REVISIONS MUST BE RECORDED UPON THE DEED OF RECORD FOR THE PROPERTY. PRIOR TO RECORDING, THE FORM OF THE DEED MUST BE APPROVED BY THE BOARD ATTORNEY AND OUR OFFICE.

PUBLIC UTILITY LIST

ELECTRIC & GAS

Public Service Electric & Gas Company
Manager - Corporate Properties
80 Park Plaza, T6B
Newark, NJ 07102

WATER

New Jersey American Water Company
167 John F. Kennedy Parkway
Short Hills, NJ 07078

CABLE TV

Comcast Cablevision
800 Railway Avenue
Union, NJ 07083

TELEPHONE

Verizon
1 Verizon Way
Basking Ridge, New Jersey 07920-1025

SEWER

Township of West Orange
Municipal Building
66 Main Street
West Orange, NJ 07052

LIST OF DRAWINGS		
SHEET NO.	NAME	PREPARED BY
1 OF 1	BOUNDARY AND TOPOGRAPHIC SURVEY	MICHAEL P. FERSCHMAN
SP-1	TITLE SHEET	PETRY ENGINEERING
SP-2	OVERALL LAYOUT SHEET	PETRY ENGINEERING
SP-3	DETAILED LAYOUT SHEET	PETRY ENGINEERING
SP-4	GRADING AND DRAINAGE PLAN	PETRY ENGINEERING
SP-5	DETAILED GRADING PLAN	PETRY ENGINEERING
SP-6	UTILITY PLAN	PETRY ENGINEERING
SP-7	STORM SEWER PROFILES	PETRY ENGINEERING
SP-8	STORM SEWER PROFILES	PETRY ENGINEERING
SP-9	STORM SEWER PROFILES	PETRY ENGINEERING
SP-10	STORM SEWER PROFILES	PETRY ENGINEERING
SP-11	STORM SEWER PROFILES	PETRY ENGINEERING
SP-12	STORM SEWER AND BASIN SECTIONS	PETRY ENGINEERING
SP-13	SANITARY SEWER PROFILES	PETRY ENGINEERING
SP-14	SANITARY SEWER PROFILES	PETRY ENGINEERING
SP-15	SOIL EROSION AND SEDIMENT CONTROL	PETRY ENGINEERING
SP-16	LIGHTING PLAN	PETRY ENGINEERING
SP-17	LIGHTING DETAILS	PETRY ENGINEERING
SP-18	CONSTRUCTION NOTES	PETRY ENGINEERING
SP-19	CONSTRUCTION DETAILS	PETRY ENGINEERING
SP-20	CONSTRUCTION DETAILS	PETRY ENGINEERING
SP-21	CONSTRUCTION DETAILS	PETRY ENGINEERING
SP-22	RETAINING WALL DETAILS	PETRY ENGINEERING
P-1	OVERALL PHASING PLAN	PETRY ENGINEERING
TR-1	TREE REMOVAL PLAN	PETRY ENGINEERING
TR-2	TREE REMOVAL LIST	PETRY ENGINEERING
CS	COVER SHEET	KDA ARCHITECTS
L1.0	LANDSCAPE PLAN	KDA ARCHITECTS
L2.0	LANDSCAPE DETAILS	KDA ARCHITECTS
L3.0	SITE SIGNAGE PLAN	KDA ARCHITECTS
A1.0	LOWER LEVEL PLAN	KDA ARCHITECTS
A1.1	FIRST FLOOR PLAN	KDA ARCHITECTS
A1.2	SECOND FLOOR PLAN	KDA ARCHITECTS
A1.3	THIRD FLOOR PLAN	KDA ARCHITECTS
A1.4	FOURTH FLOOR PLAN	KDA ARCHITECTS
A1.5	ROOF PLAN	KDA ARCHITECTS
A2.0	EXTERIOR ELEVATIONS	KDA ARCHITECTS
A2.1	EXTERIOR ELEVATIONS	KDA ARCHITECTS
A3.0	PROJECT PHASING	KDA ARCHITECTS

LIST OF APPROVALS REQUIRED:

1. ESSEX COUNTY SITE PLAN APPROVAL
2. SOIL EROSION AND SEDIMENT CONTROL (HEPCSD)
3. NJDEP - TREATMENT WORKS APPROVAL
4. NJDEP - WATER EXTENSION PERMIT

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

200' PROPERTY OWNERS LIST								
Town	Block	Lot	Qualifier	Location	Owner	Owner Address	Owner City/State	Owner Zip
West Orange Township	157.01	11		MT. PLEASANT AVENUE	COUNTY OF ESSEX	115 CLIFTON AVENUE	NEWARK,N.J.	07114
West Orange Township	170	8		20 SUMMIT STREET	SUMMIT CARE REALTY, L.L.C.	457 OAK GLEN ROAD	HOWELL, NJ	07731
West Orange Township	170.01	10		6 SUMMIT STREET	PLEASANT & SUMMIT L.L.C. % AFFILIATED	301 S. LIVINGSTON AVE#201	LIVINGSTON, N.J.	07039
West Orange Township	171	10		1199 PLEASANT VALLEY WAY	KESSLER INSTITUTE% ALTUS GROUP US	P.O. BOX 92129	SOUTHLAKE,TX	76092
West Orange Township	171	12		1155 PLEASANT VALLEY WAY	JCF 1155 PLEASANT VALLEY WAY LLC	901 RT 10	WHIPPANY, NJ	07981
West Orange Township	171	21		8 SKYLINE DRIVE	PATEL, KRISHNAKANT H & CHANDRIKA B.	8 SKYLINE DRIVE	WEST ORANGE, NJ	07052
West Orange Township	171	22		10 SKYLINE DRIVE	CHRIS ANDERSON, DONNA A.	10 SKYLINE DRIVE	WEST ORANGE, NJ	07052
West Orange Township	171	23		14 SKYLINE DRIVE	KRAYTISOV, ANDREY & EKATERINA	14 SKYLINE DRIVE	WEST ORANGE,N.J.	07052
West Orange Township	171	24		16 SKYLINE DRIVE	TO,ALBERT + EVANGELINA C	16 SKYLINE DRIVE	WEST ORANGE,N.J.	07052
West Orange Township	171	25		18 SKYLINE DRIVE	PIERRE, YVES N. & MARGARETTE	18 SKYLINE DRIVE	WEST ORANGE, NJ	07052
West Orange Township	171	26		22 SKYLINE DRIVE	DONNELLY, JAMES P. & MARIE	22 SKYLINE DRIVE	WEST ORANGE, N.J.	07052
West Orange Township	171	27		24 SKYLINE DRIVE	FAIBIS, MIKY & RENEE	24 SKYLINE DRIVE	WEST ORANGE, N.J.	07052
West Orange Township	171	28		21 SKYLINE DRIVE	BERMACK, SCOTT W & QUINN, DARAS.	21 SKYLINE DRIVE	WEST ORANGE,N.J.	07052
West Orange Township	171	29		19 SKYLINE DRIVE	BLACK, ANDREW J. & DIANE	19 SKYLINE DR	WEST ORANGE, NJ	07052
West Orange Township	171	31		15 SKYLINE DRIVE	JOHNSON, EVERETT M & KIM D.	15 SKYLINE DR	WEST ORANGE, NJ	07052
West Orange Township	171	32		11 SKYLINE DRIVE	JONES, DAVID A & COURTNEY Y	11 SKYLINE DRIVE	WEST ORANGE, NJ	07052
West Orange Township	171	33		9 SKYLINE DRIVE	ADDAL ALBERT & DWIRAH, JACQUELINE	9 SKYLINE DR	WEST ORANGE, NJ	07052
West Orange Township	171.03	30		17 PARSON DRIVE	KUMAR, TARUN & BIBHA	17 PARSON DRIVE	WEST ORANGE, N.J.	07052
West Orange Township	171.03	31		23 RAND DRIVE	MACK,PEDRO A JR-BYNOE,BERNADETTE	23 RAND DRIVE	WEST ORANGE, NJ	07052
West Orange Township	171.05	3		6 SKYLINE DRIVE	SCHNITZER, KENNETH & JANEN	6 SKYLINE DR	W ORANGE, N.J.	07052
West Orange Township	171.05	4		12 PARSON DRIVE	CRYSTAL, JILL	12 PARSON DR	WEST ORANGE, NJ	07052
West Orange Township	171.05	5		10 PARSON DRIVE	LOPES,MARIA D. & PATINHO, EDUARDO	10 PARSON DR	WEST ORANGE, NJ	07052
West Orange Township	171.05	6		8 PARSON DRIVE	ELLA J. SLIVKA IRREV TRUST	8 PARSON DR.	WEST ORANGE,NJ	07052
West Orange Township	171.05	7		6 PARSON DRIVE	NNANNA, VICTORIA	6 PARSON DRIVE	WEST ORANGE, N.J.	07052
West Orange Township	171.05	8		4 PARSON DRIVE	EASY RENTALS & SALES,	4 PARSON DRIVE	WEST ORANGE, NJ	07052
West Orange Township	171.05	9		2 PARSON DRIVE	EQUITY INVTMENTS CAPITAL CORP	2 PARSON DRIVE	WEST ORANGE, NJ	07052
West Orange Township	171.06	3		5 SKYLINE DRIVE	LEKNER, JACQUELINE	5 SKYLINE DRIVE	WEST ORANGE, N.J.	07052
West Orange Township	171.06	4		7 SKYLINE DRIVE	QUINONES, OLINDA	103 OLD VIRGINIA CIRCLE	JONESBORO, GA	30236

APPROVALS

WEST ORANGE TOWNSHIP

APPROVED AS A SITE PLAN BY THE TOWNSHIP OF WEST ORANGE

ZONING BOARD OR

DATE

ZONING BOARD CHAIRPERSON

DATE

ZONING BOARD SECRETARY

DATE

TOWNSHIP ENGINEER

DATE

COUNTY OF ESSEX

PLANNING BOARD CHAIRPERSON

DATE

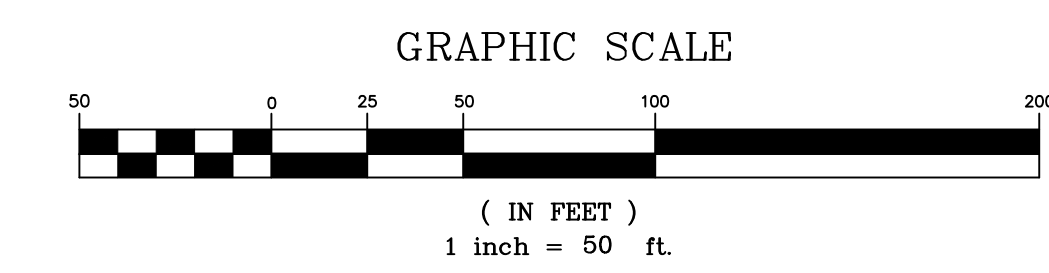
PLANNING BOARD SECRETARY

DATE

TOWNSHIP ENGINEER

DATE

4	REVISED PER SETTLEMENT PLAN	10/13/2023	JMP
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			
SETTLEMENT PLAN TITLE SHEET			
 DIVISION OF CONSULTING SERVICES, ENGINEERING, ARCHITECTURE, AND LANDSCAPE ARCHITECTURE 100 FRANKLIN AVENUE • SUITE 200 • NEWARK, NJ 07102 TEL: 973.207.7000 FAX: 973.207.7000			Designer: JMP Draftsman: JAF Checked By: JMP Project No: 19-285 Scale: AS SHOWN Sheet: SP-1
J. MICHAEL PETRY-PE, PP, RA NJ PROFESSIONAL ENGINEER LIC. NO. 36662			DATED: 10/20/2023



- 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 FERSCHMAN P.L.S. DATED 4/18/2020.

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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

**SETTLEMENT PLAN
 OVERALL LAYOUT SHEET**

PETRY ENGINEERING LLC
 DIVISION OF CONCRETE AFFAIRS, LLC (DBA: CONCRETE AFFAIRS)
 100 PARKWAY DRIVE • FARGO, ND 58103 • 701.785.1111 • FAX 701.785.1112
 TEL 701.785.1111 FAX 701.785.1112

J. MICHAEL PETRY-PE, PP, RA
 NJ PROFESSIONAL ENGINEER LIC. NO. 36862 DATED 10/26/2021

Designer: JMP
 Draftsman: JMF
 Checked By: JMP
 Project No.: 19-265
 Scale: 1"=50'
 Sheet:
SP-2

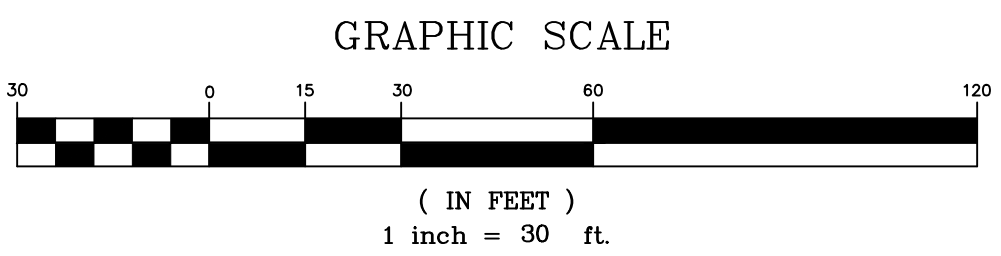


SIGN LEGEND		
1	R1-1	STOP SIGN
3	R7-8 & 8B	HANDICAP PARKING
EV	R7-111	ELECTRIC VEHICLE PARKING

228 SURFACE LEVEL SPACES
(INCLUDES 34 EV SPACES)
+ 14 FUTURE 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.
 - RETAINING WALLS "C", "E", AND "F" HAVE BEEN REMOVED FROM THE SCOPE OF WORK.

- EV INSTALLATION SCHEDULE:
- 18 EV STATIONS INSTALLED BEFORE C.O. (18 OUTSIDE)
 - 20 EV STATIONS INSTALLED WITHIN 3 YEARS OF C.O. (20 GARAGE)
 - 16 EV STATIONS INSTALLED WITHIN 6 YEARS OF C.O. (16 OUTSIDE)



- 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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4	REVISED PER SETTLEMENT PLAN	10/13/2023	JMP
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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

**SETTLEMENT PLAN
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.: 19-255
Scale: 1"=30'
Sheet:
SP-3

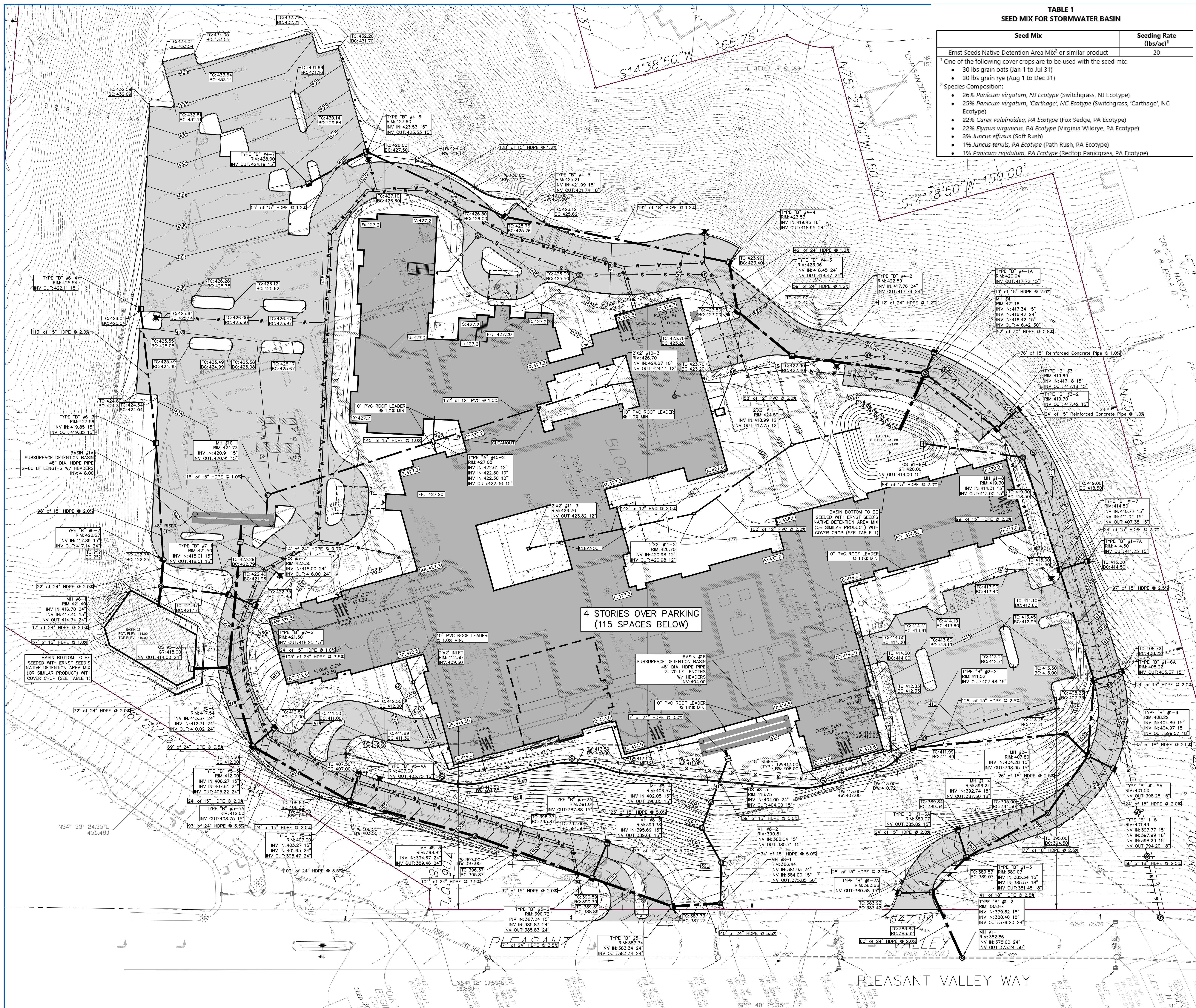


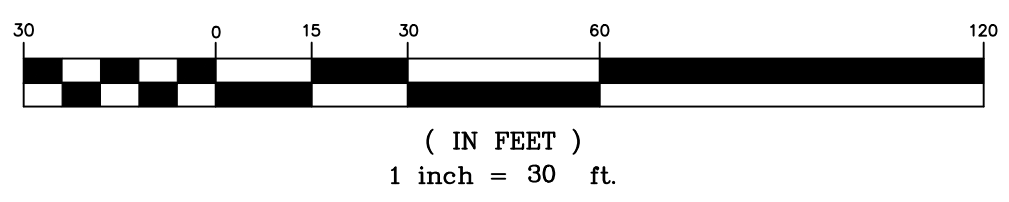
TABLE 1
SEED MIX FOR STORMWATER BASIN

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

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 "GROSS FINDINGS MAP OF DAUGHTERS OF ISRAEL CAMPUS 1155 PLEASANT VALLEY WAY, WEST ORANGE, NJ" PREPARED BY SCOTT WAPIANO AND DATED 10/06/2021.

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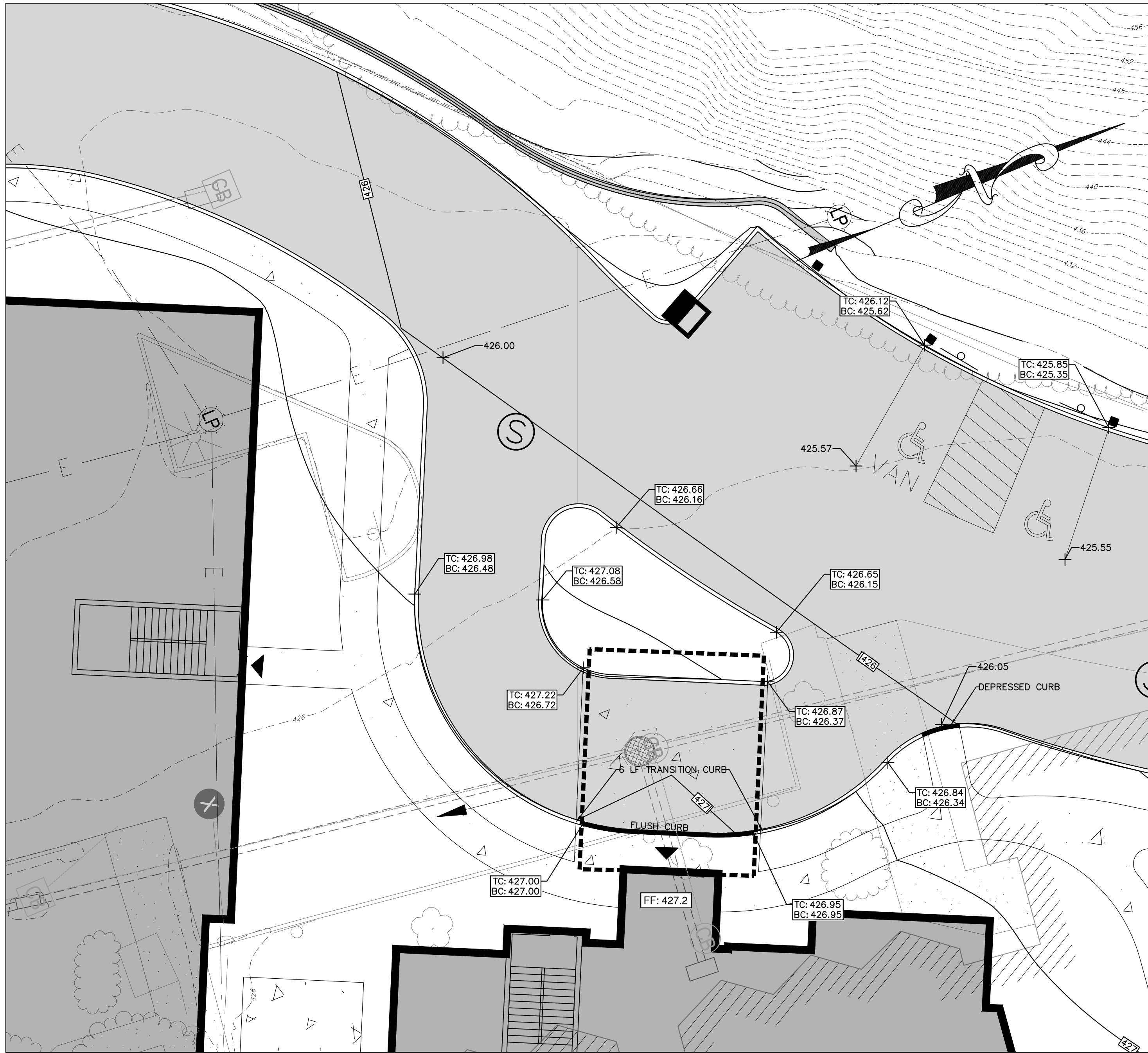
PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

SETTLEMENT PLAN
GRADING AND DRAINAGE PLAN

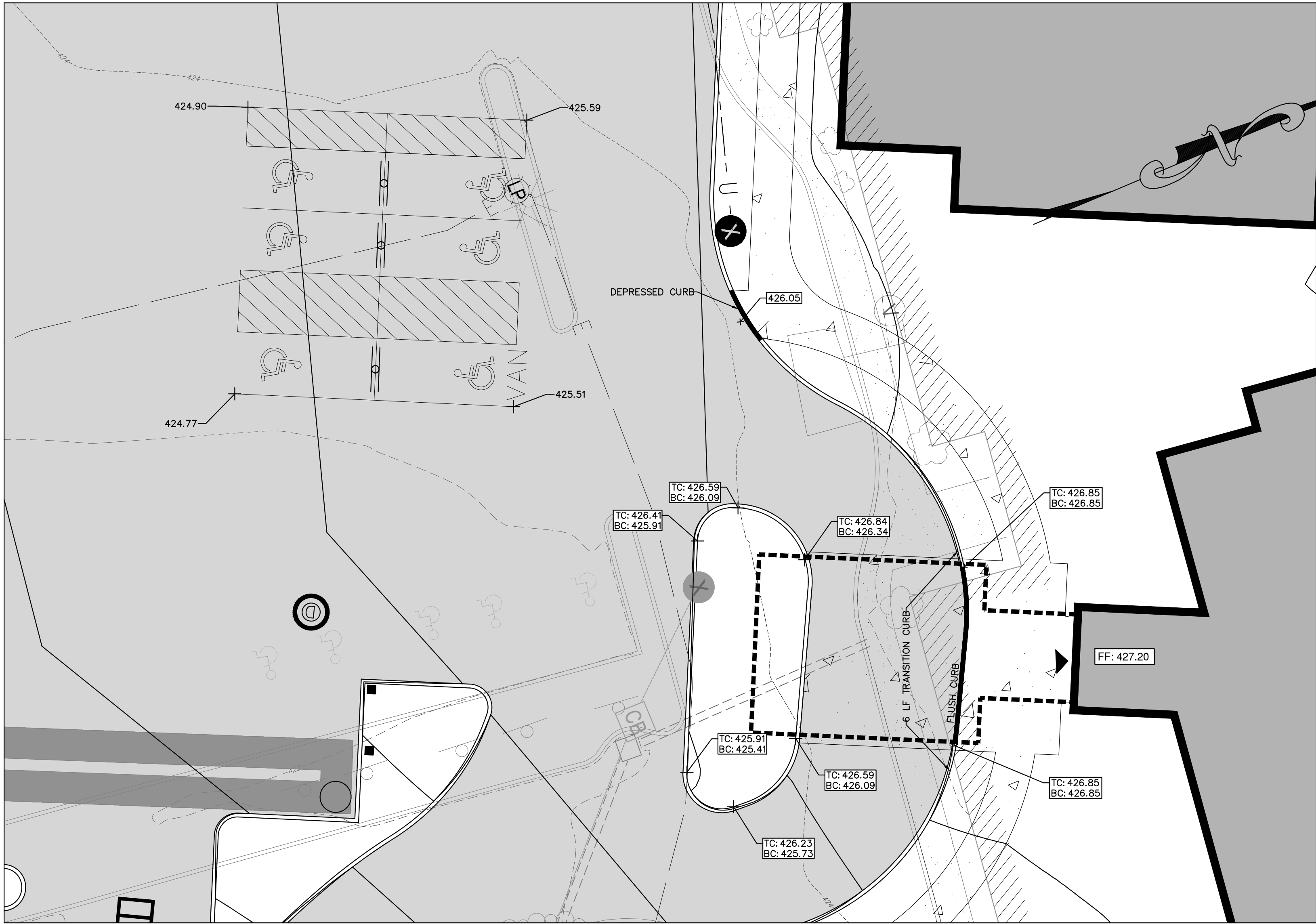


J. MICHAEL PETRY-PE,PP,RA
NJ PROFESSIONAL ENGINEER LIC. NO. 30962 DATED: 10/29/2021

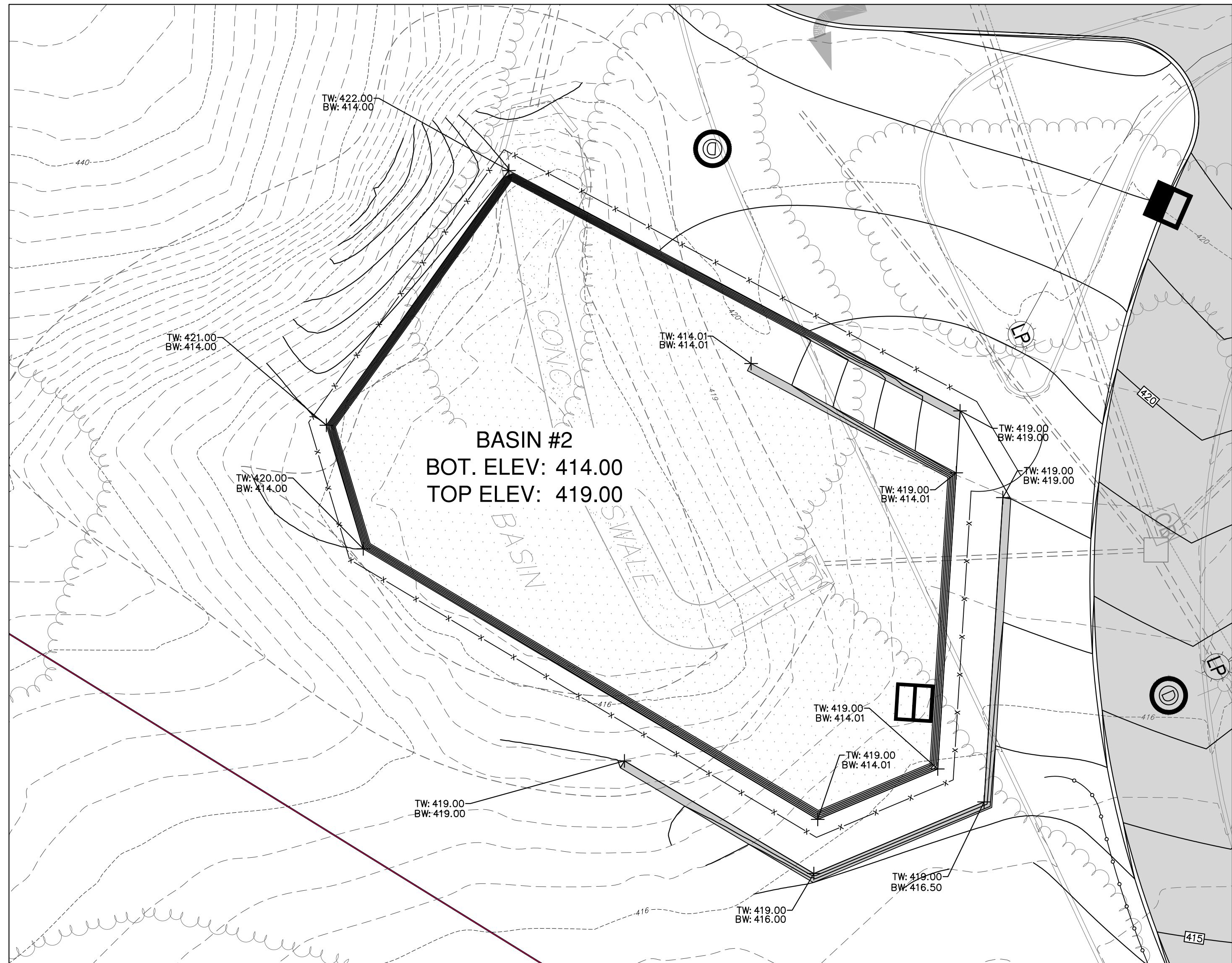
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Checker: JAF
Checked By: JMP
Project No.: 19-265
Scale: 1"=30'
Sheet: SP-4



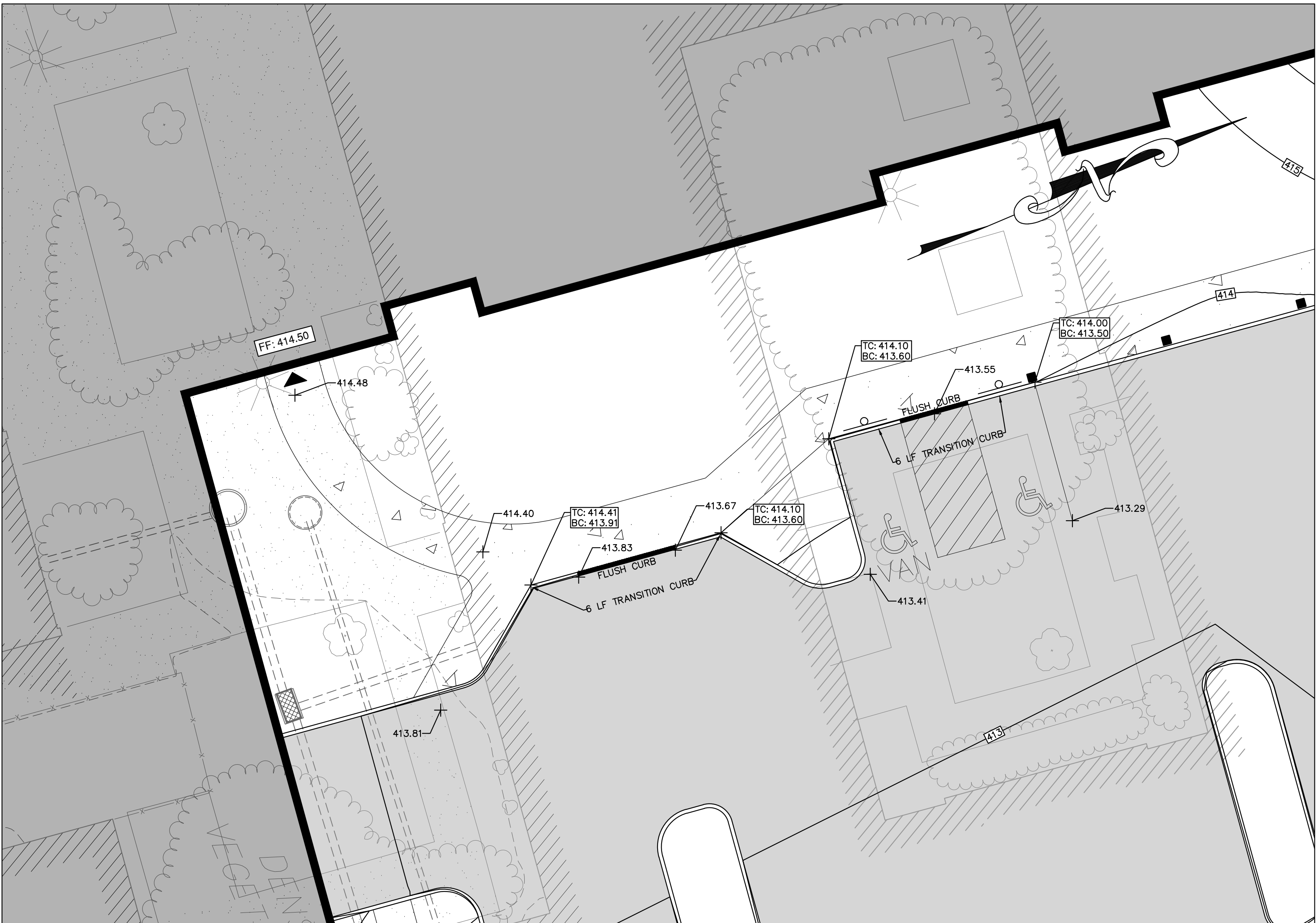
WESTERN PORTE COCHERE
SCALE: 1"=10'



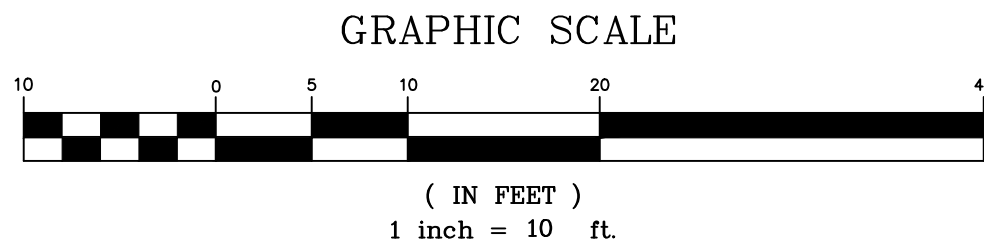
SOUTHERN PORTE COCHERE
SCALE: 1"=10'



WESTERN PORTE COCHERE
SCALE: 1"=10'



NORTHERN PORTE COCHERE
SCALE: 1"=10'



- REFERENCES:
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 - 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 VIAPIANO AND DATED 10/06/2021.

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1	REVISED PER NEW BUILDING FOOTPRINT	05/20/2022	JMP

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

**SETTLEMENT PLAN
DETAILED GRADING**

PETRY
ENGINEERING, LLC
100 PARKWAY DRIVE • SUITE 200 • WEST ORANGE, NJ 07063
TEL: 973.267.7000 FAX: 973.267.7010

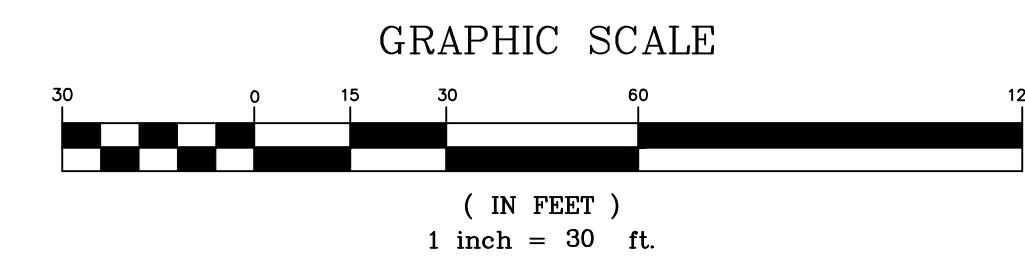
J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. NO. 30962 DATED: 1/20/2023

Designer: JMP
Draftsman: JAF
Checked By: JMP
Project No.: 19-265
Scale: AS SHOWN
Sheet:
SP-5

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



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



- REFERENCES:
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 2. SUPPLEMENTAL UTILITY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "OPRS FINDINGS MAP OF DAUGHTERS OF ISRAEL CAMPUS 1155 PLEASANT VALLEY WAY, WEST ORANGE, NJ" PREPARED BY SCOTT VIAPIANO AND DATED 10/05/2021.

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4	REVISED PER SETTLEMENT PLAN	10/13/2023	JMP
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1	REVISED PER NEW BUILDING FOOTPRINT	05/20/2022	JMP

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

**SETTLEMENT PLAN
UTILITY PLAN**

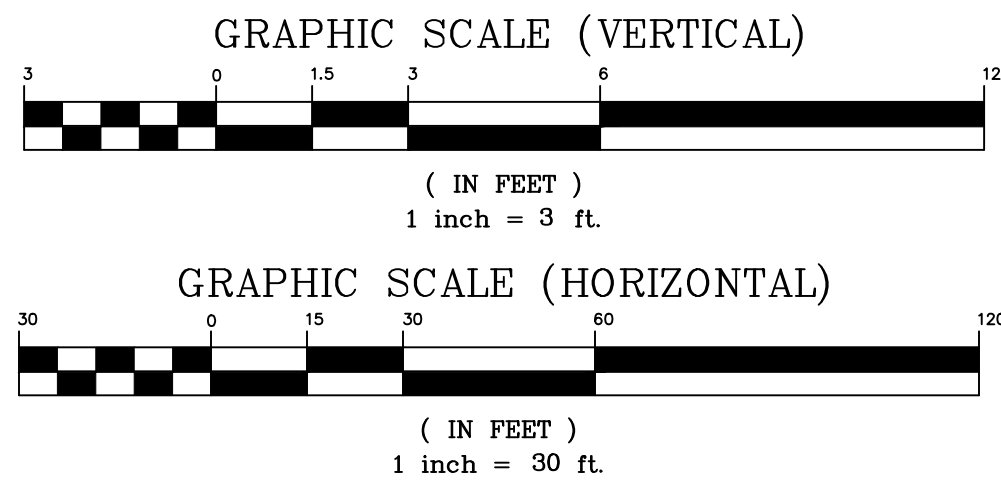
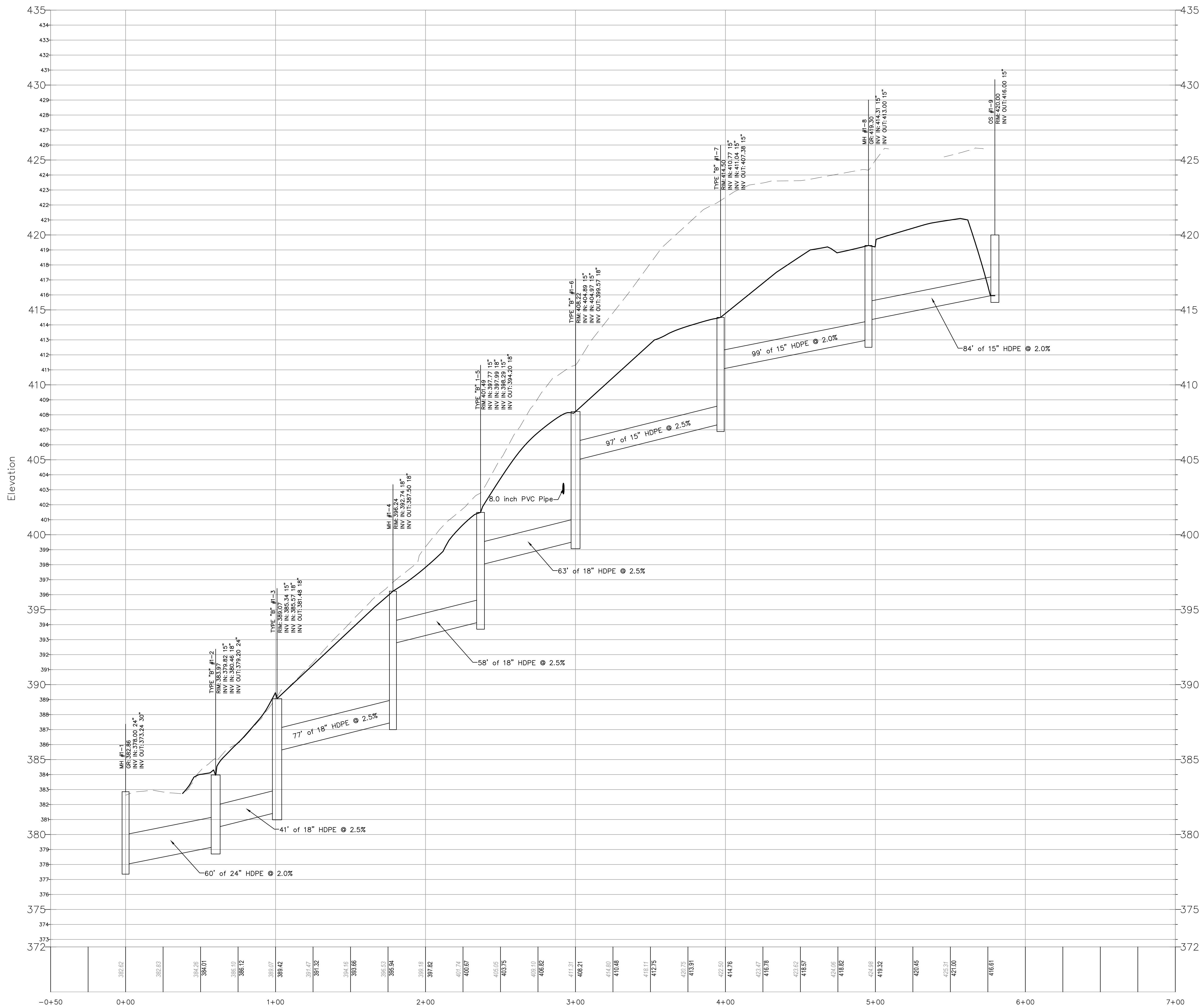


J. MICHAEL PETRY-PE,PP,RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36962 DATED 10/29/2021

Designer: JMP
Draftsman: JAF
Checked By: JMP
Project No.: 19-265
Scale: 1"=30'
Sheet: SP-6

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STORM SEWER #1 PROFILE



LEGEND	
EXISTING GRADE	---
PROPOSED GRADE	---

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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

**SETTLEMENT PLAN
STORM SEWER PROFILES**

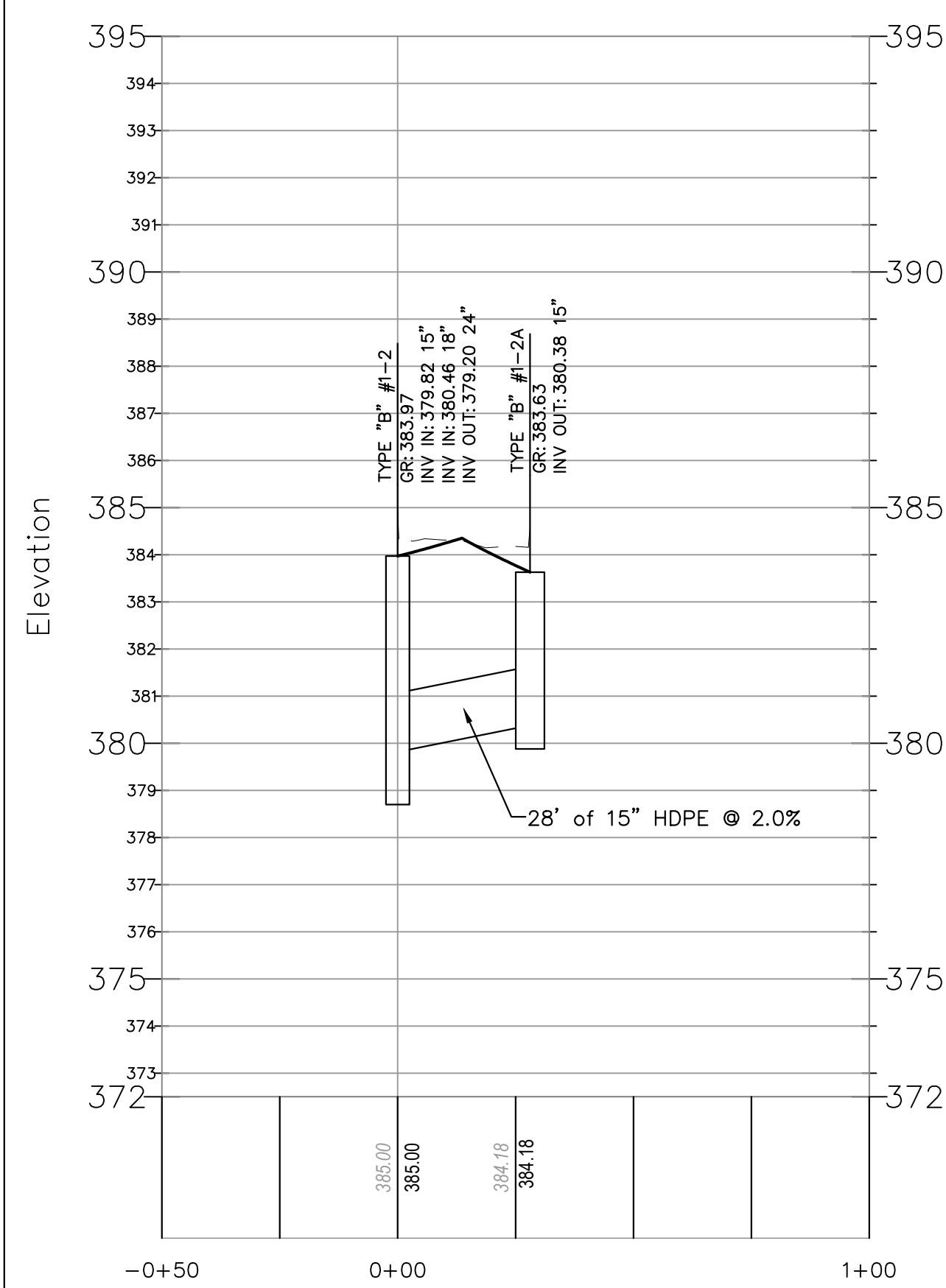
PETRY ENGINEERING, LLC
DIVISION OF CONCRETE AFFAIRS, LLC (DBA: CONCRETE AFFAIRS)
100 HUNTERS GREEN • FARMVILLE • NEW JERSEY 07004
TEL: 973.227.7004 FAX: 973.227.7074

J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36662

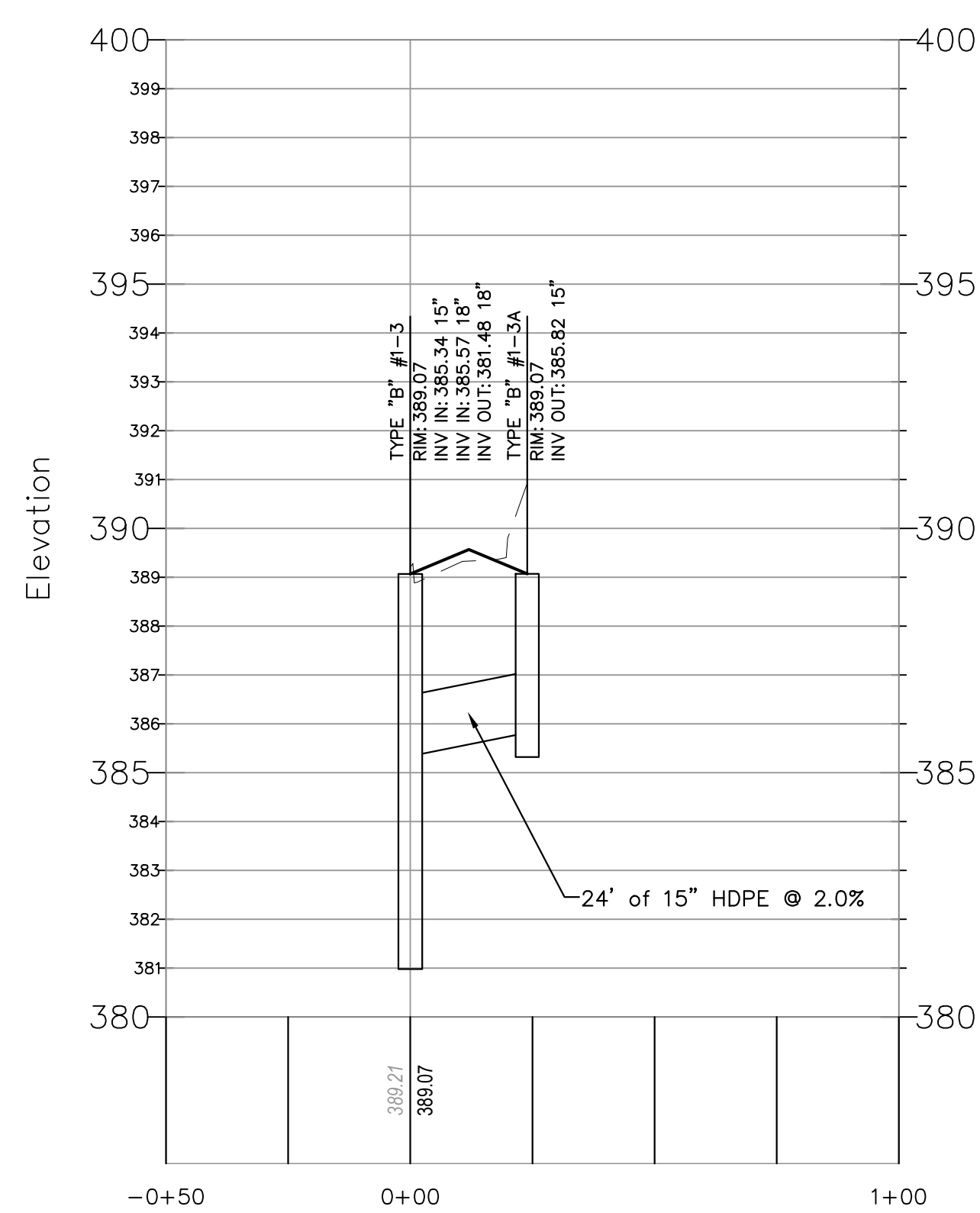
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PROJECT NO.: 19-265
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VERT.: 1" = 30'

SP-7

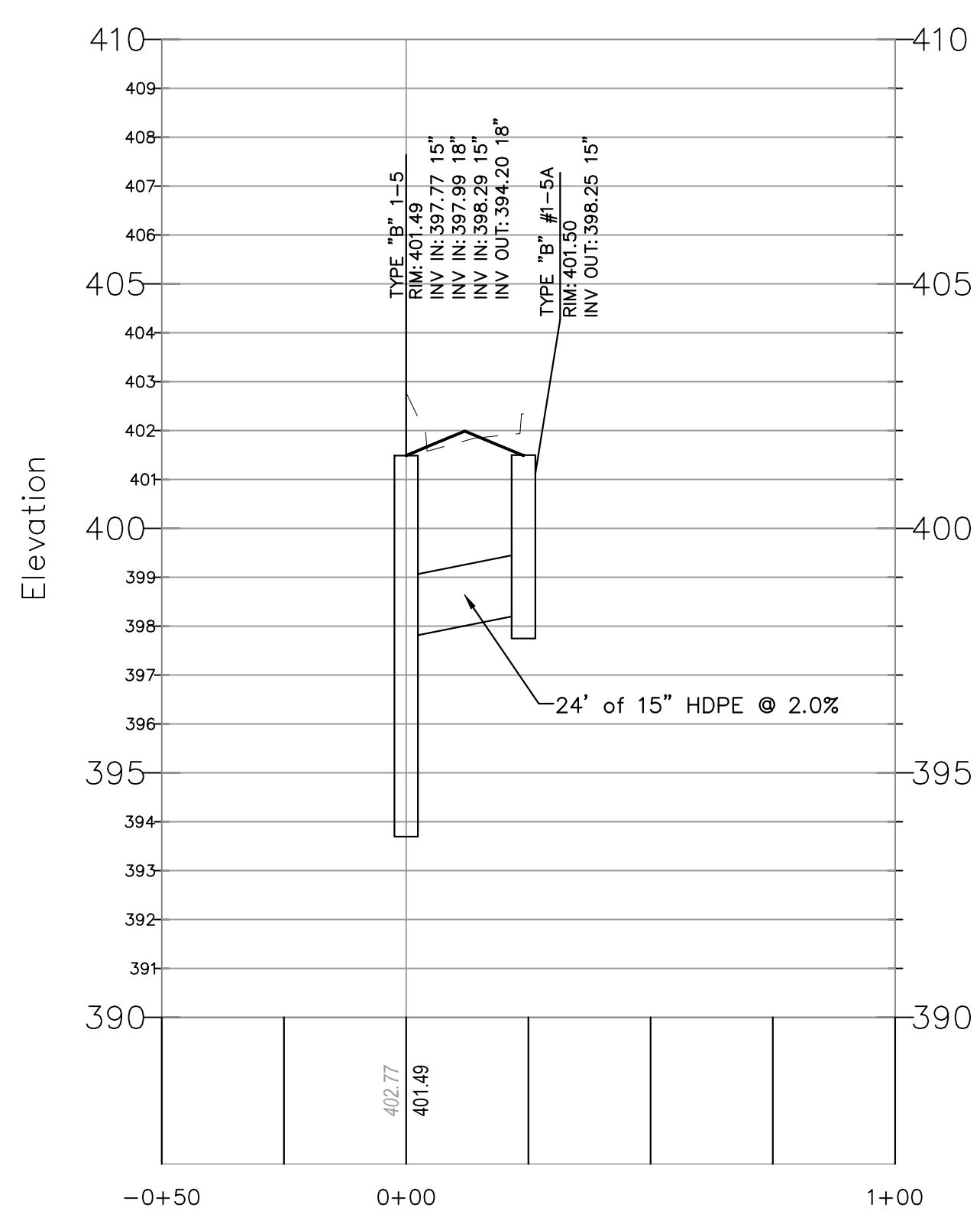
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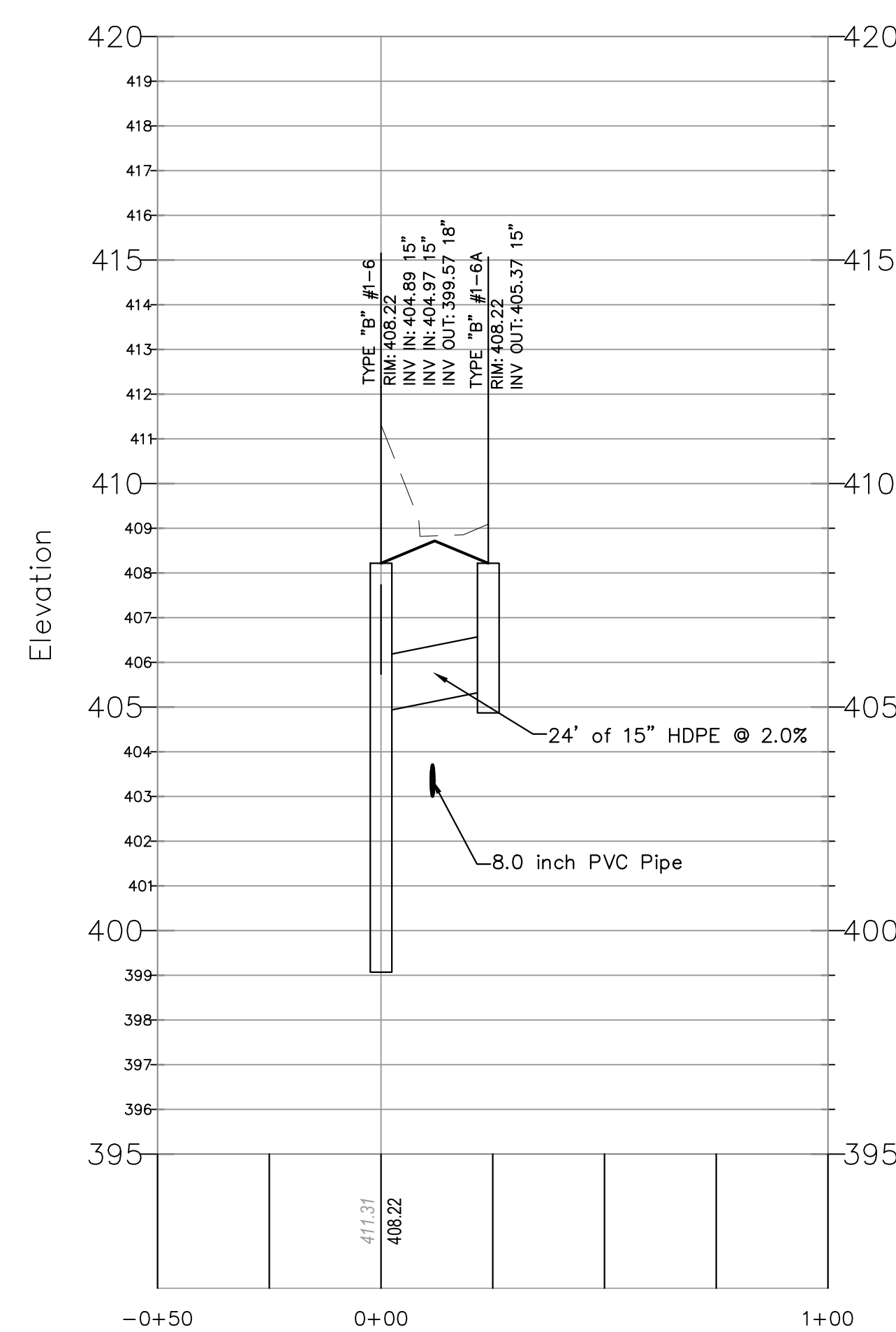
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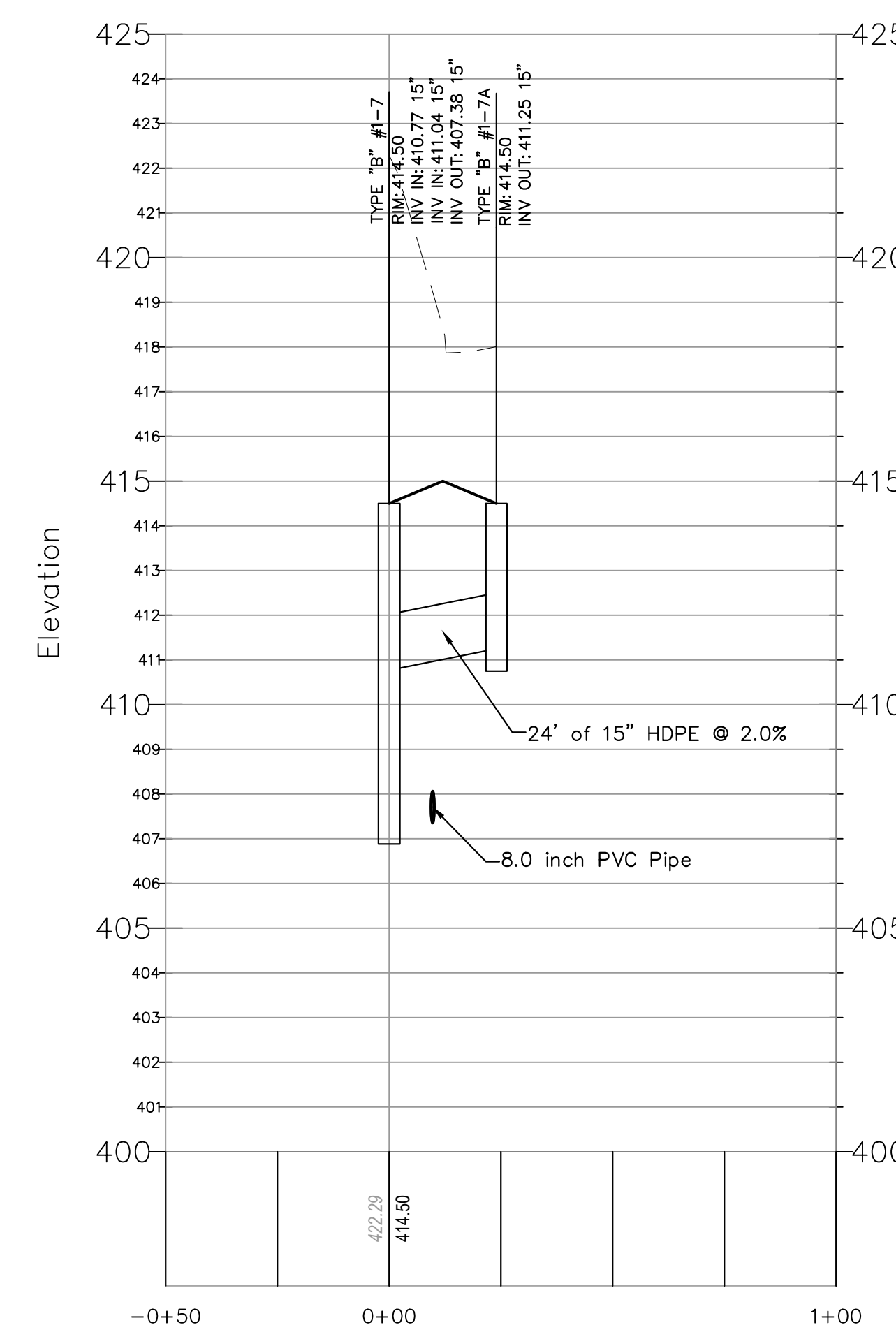
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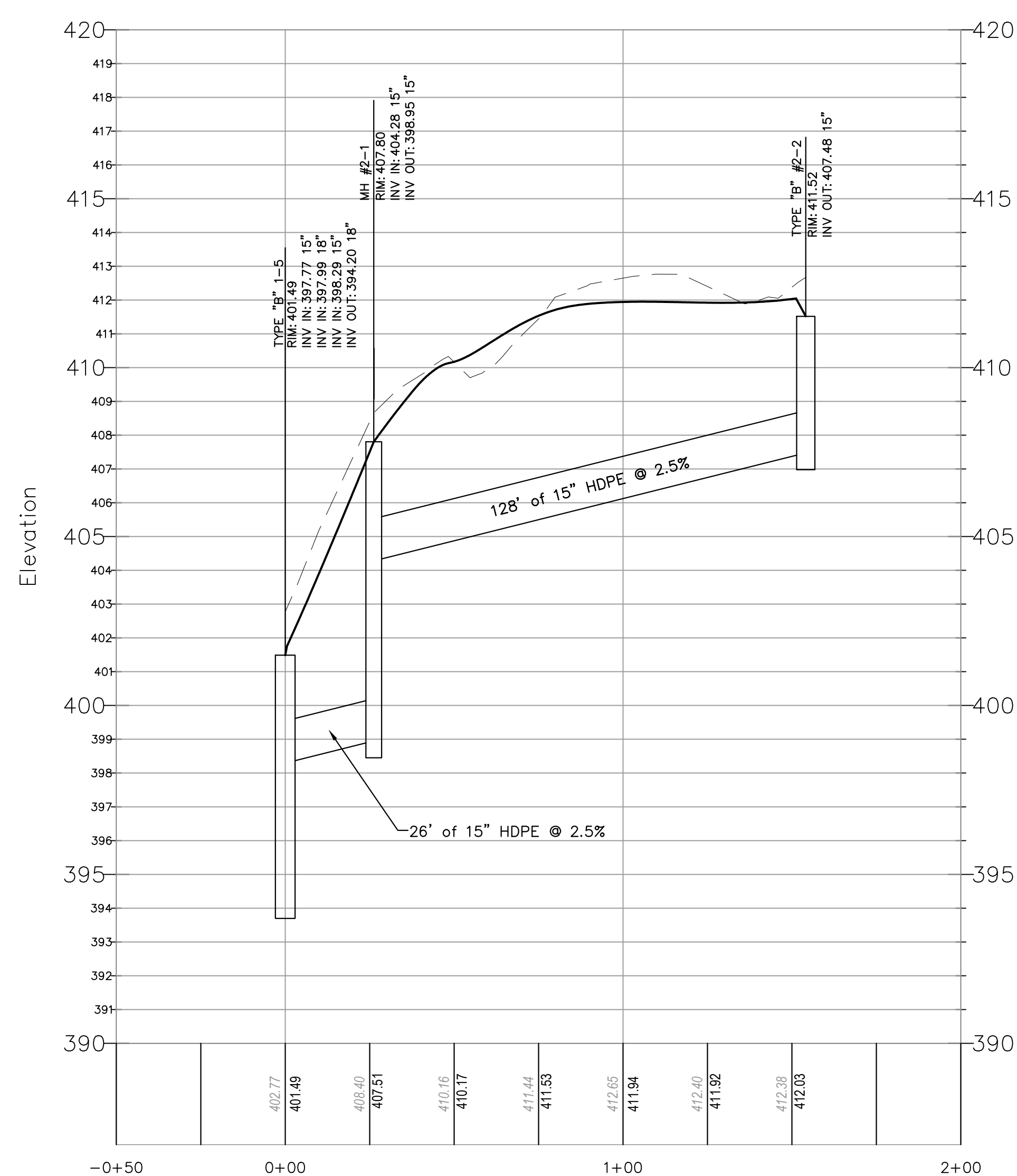
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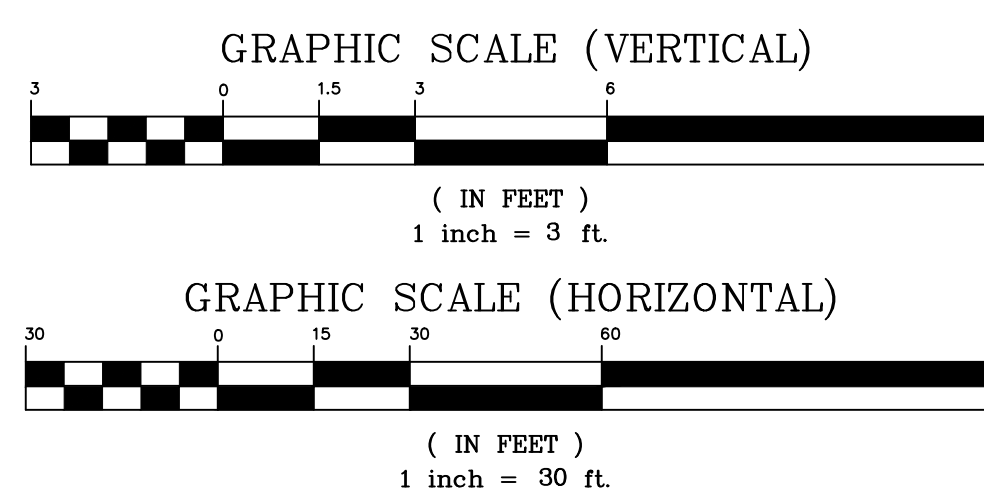
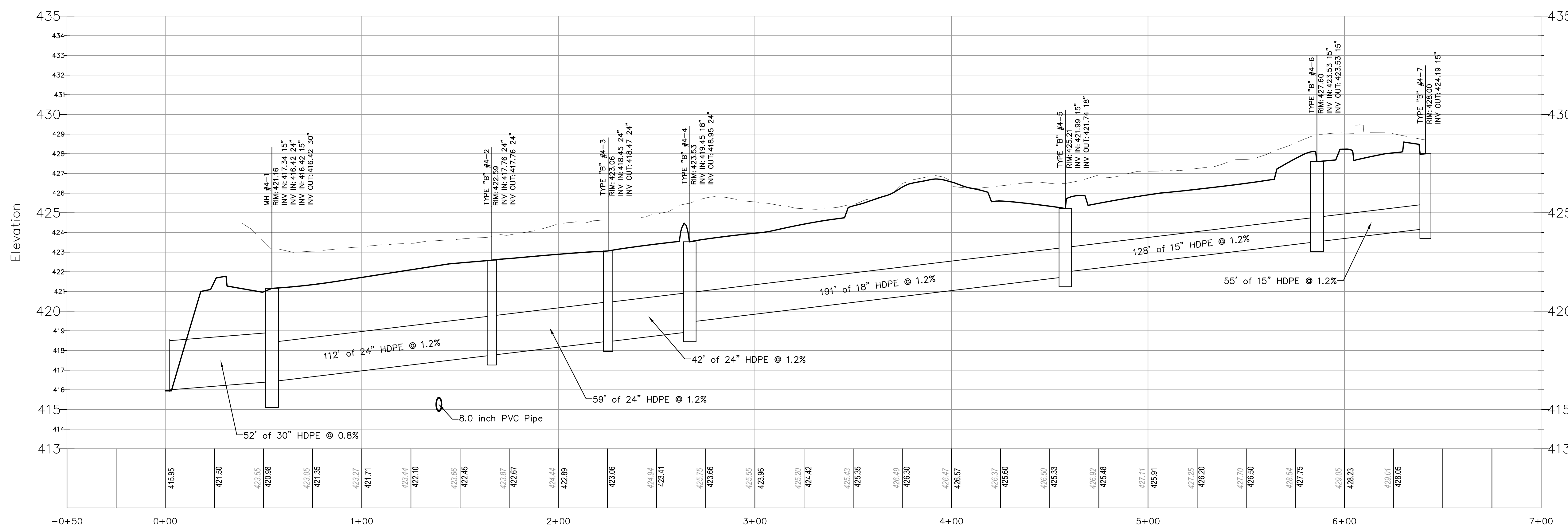
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STORM SEWER #2 PROFILE



STORM SEWER #4 PROFILE



LEGEND	
EXISTING GRADE	---
PROPOSED GRADE	---

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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

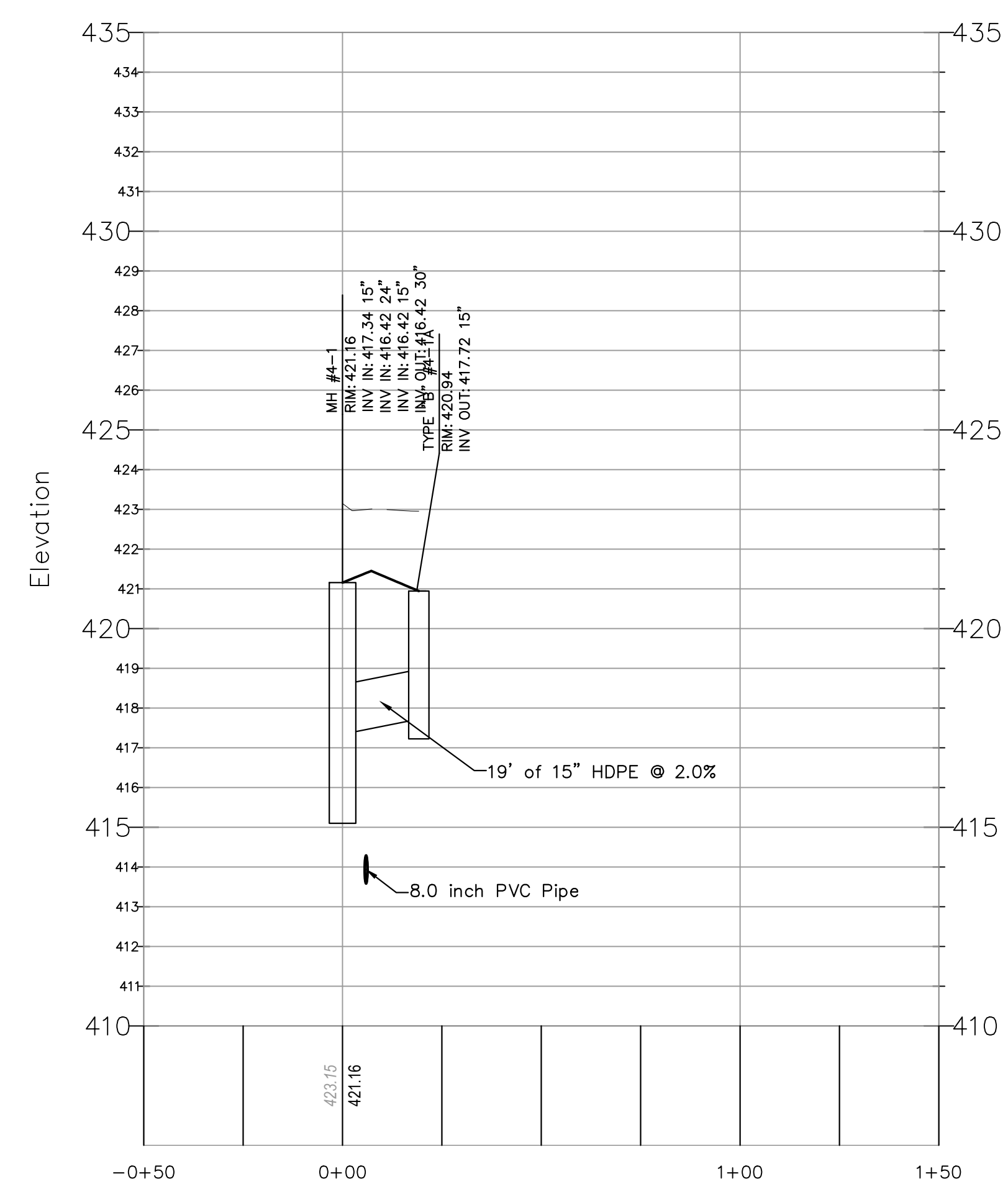
SETTLEMENT PLAN STORM SEWER PROFILES



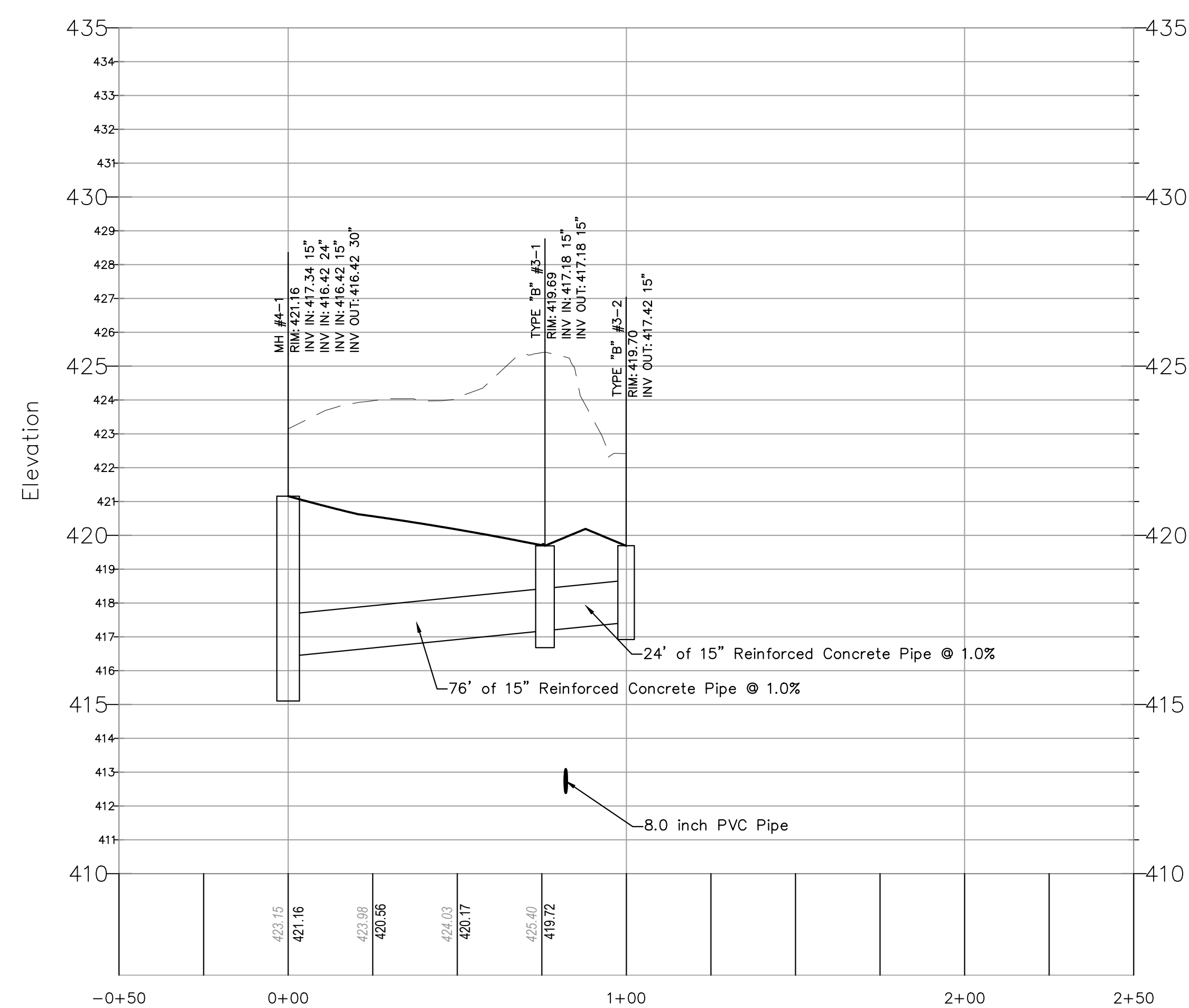
J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. NO. 38662

Designer: JMP
Draftsman: JAF
Checked By: JMP
Project No.: 19-265
Scale: HORIZ.: 1" = 3'
VERT.: 1" = 30'
Sheet:
SP-8

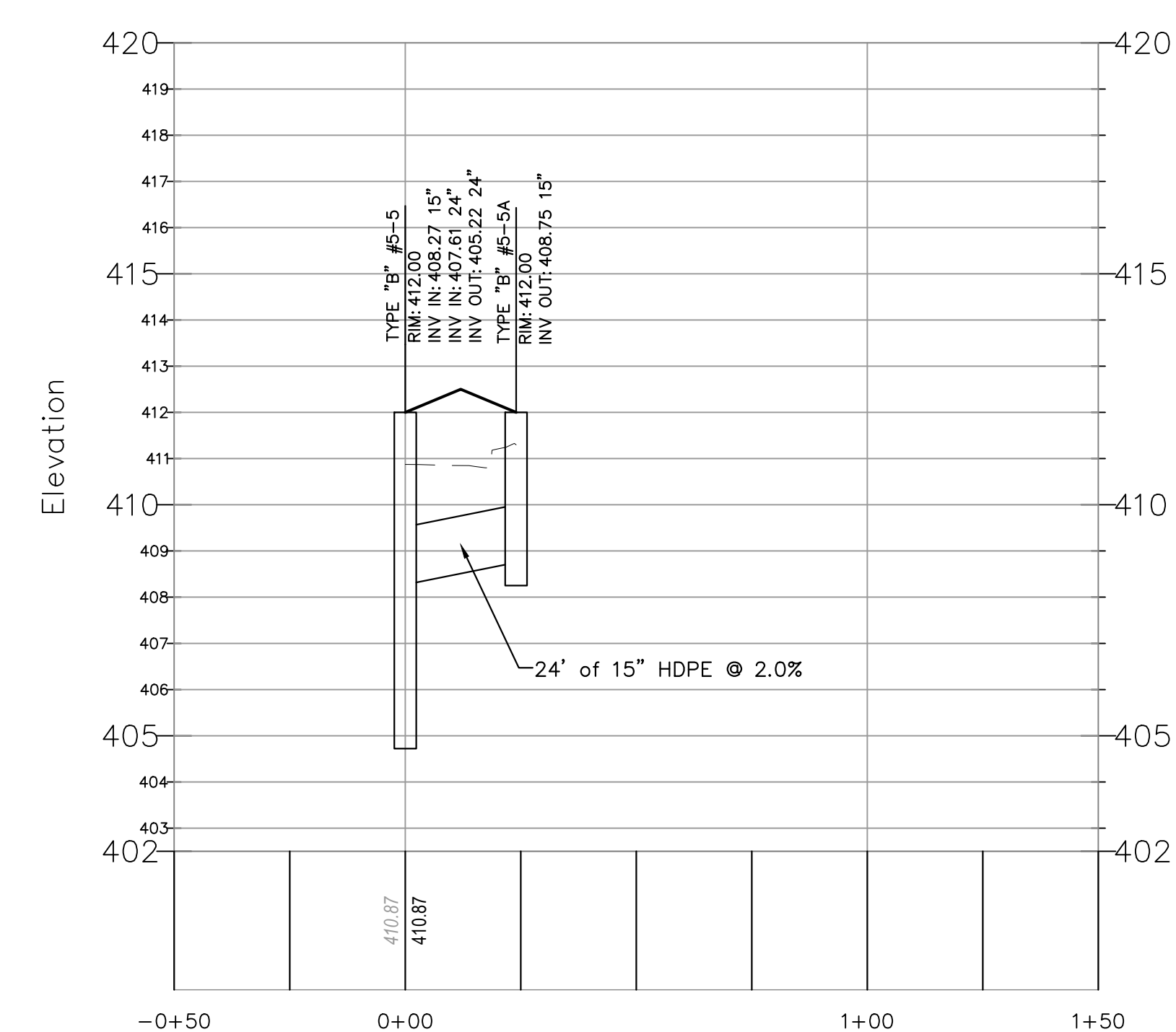
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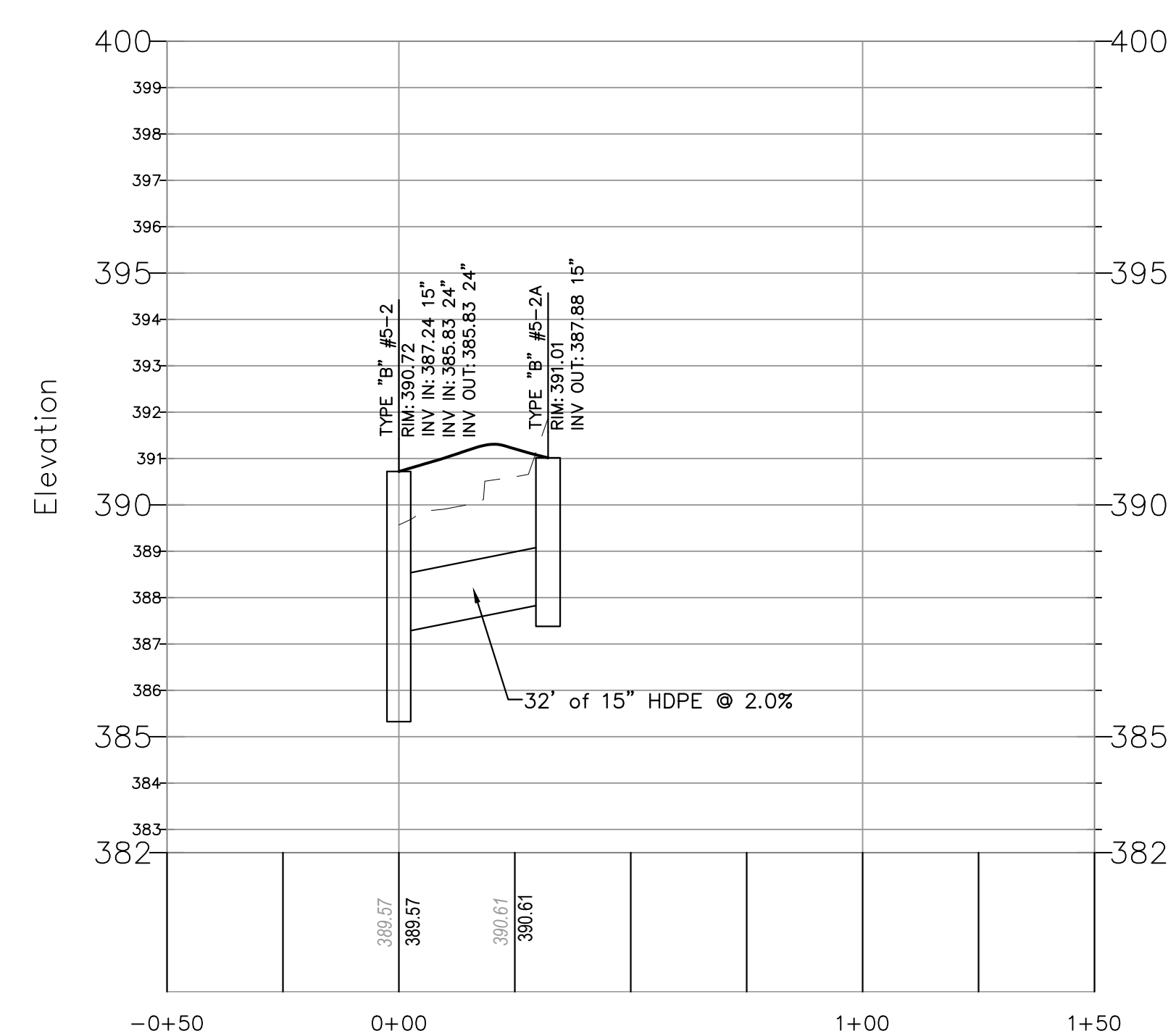
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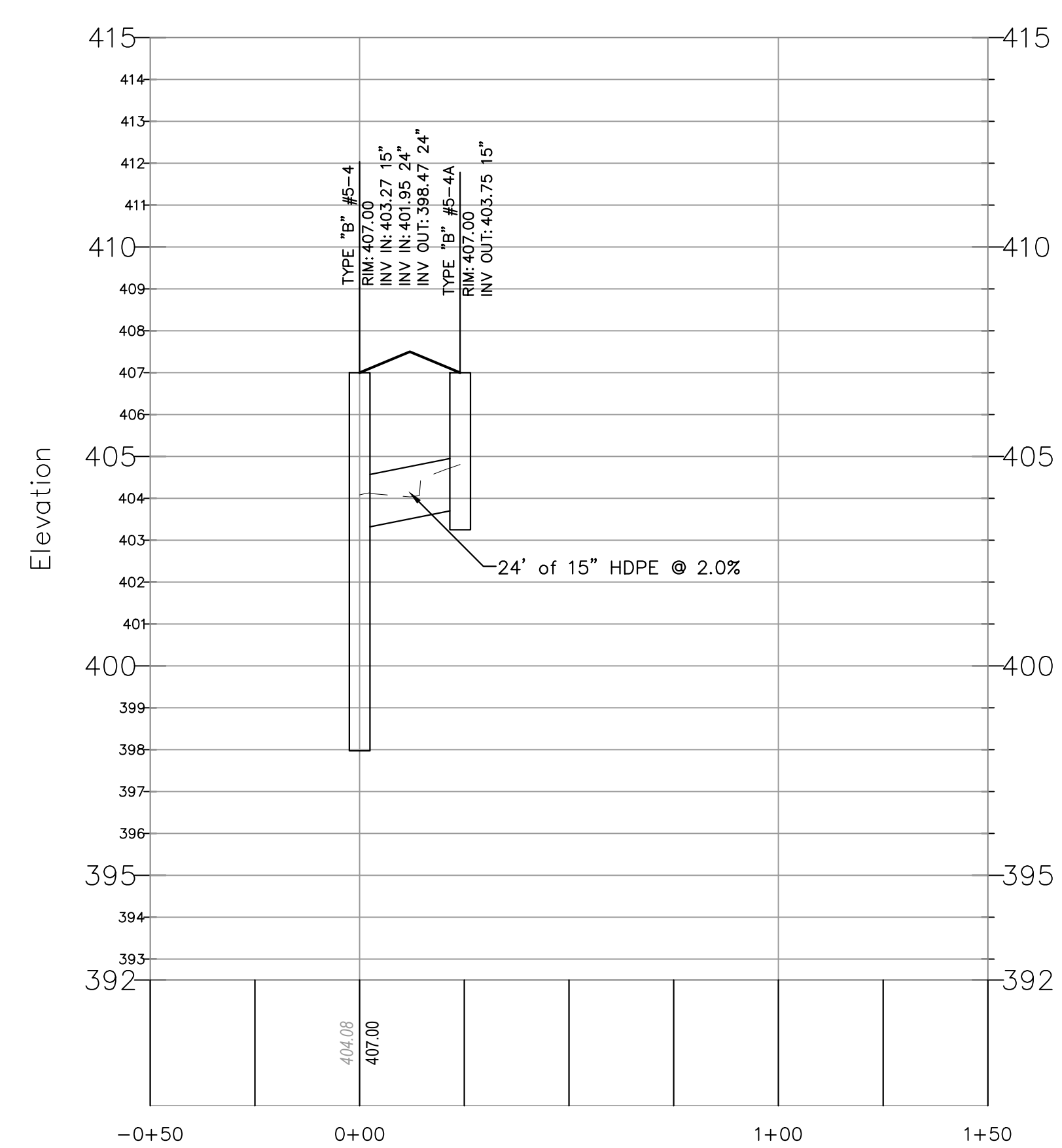
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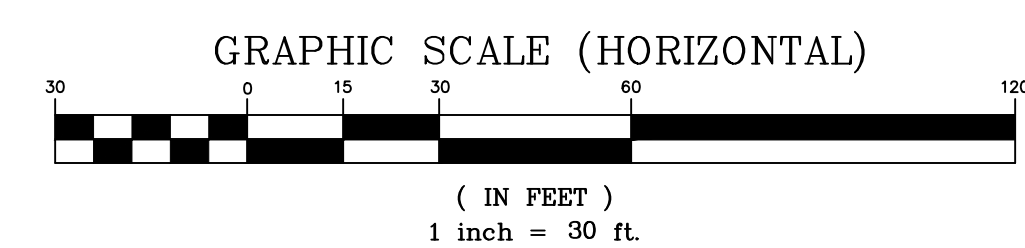
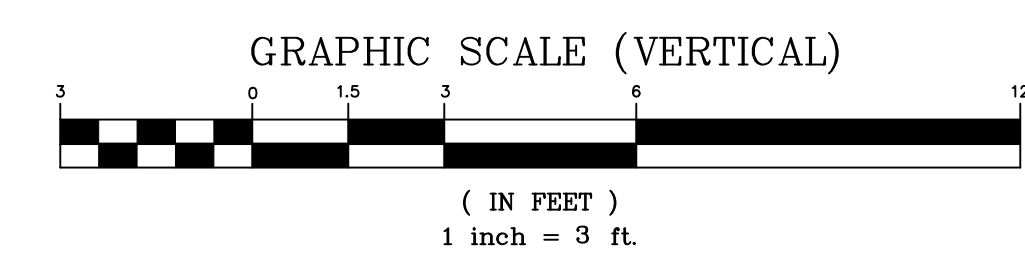
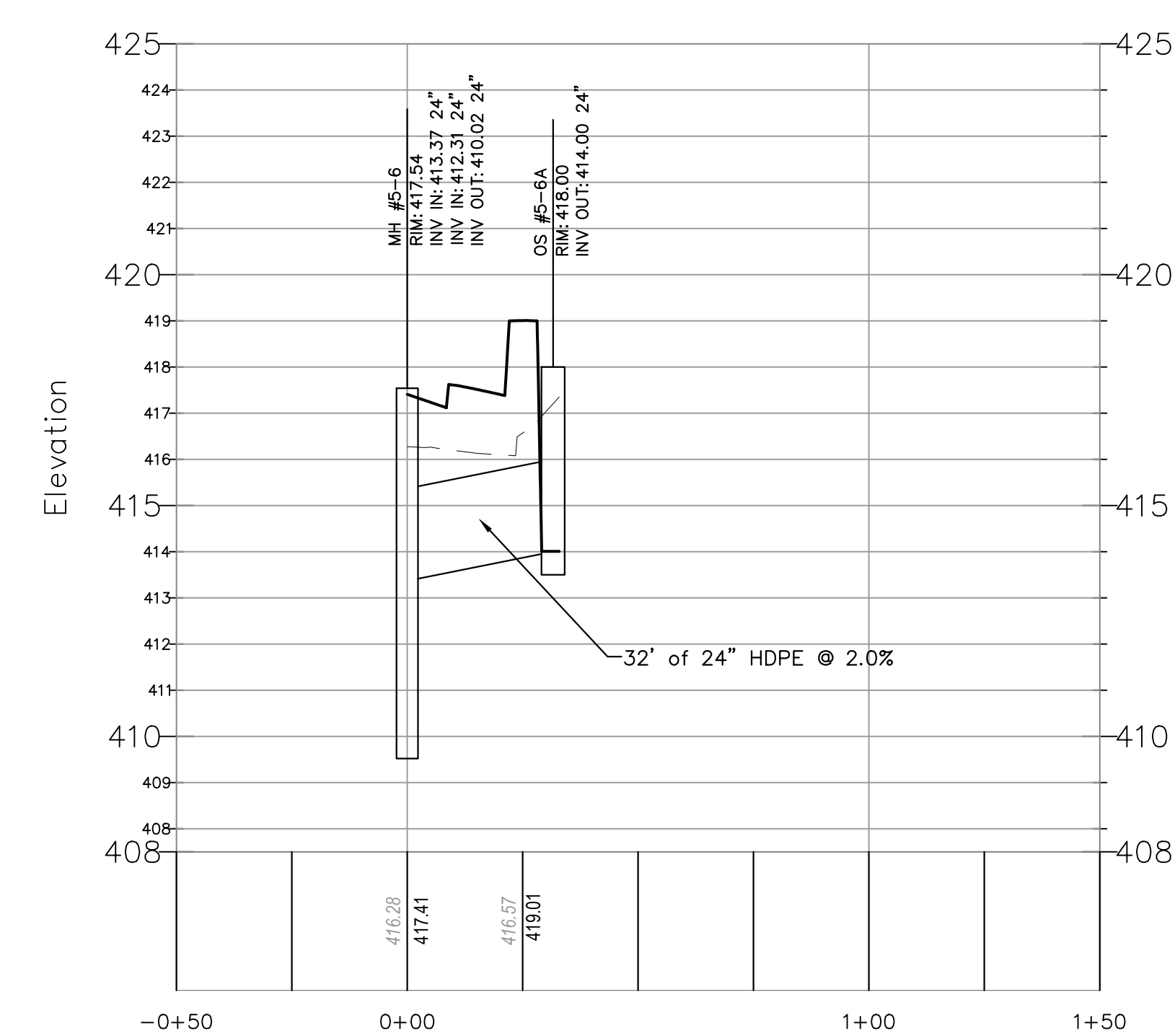
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STORM SEWER #5-4A PROFILE



STORM SEWER #5-6A PROFILE



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

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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

SETTLEMENT PLAN STORM SEWER PROFILES

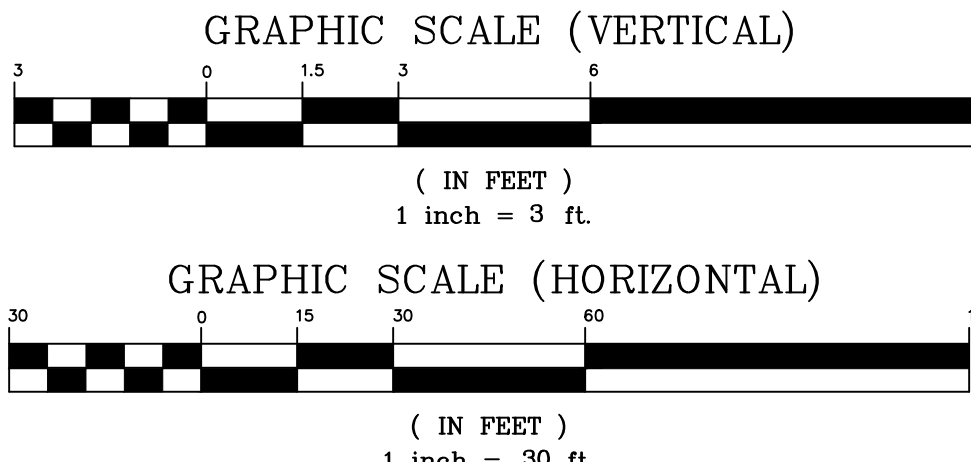
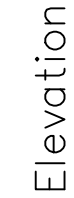



J. MICHAEL PETRY-PE, PP, RA
ALL PROFESSIONAL ENGINEERS, LLC - 20560 DATED: 10/01/2021

Designer: JMP
Draftsman: JAF
Checked By: JM
Project No.: 19-
Scale: HORZ.: VERT.:
Sheet:

SP-9

STORM SEWER #5 PROFILE



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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

SETTLEMENT PLAN STORM SEWER PROFILES




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

Designer: JMP
 Draftsman: JAF
 Checked By: JMP
 Project No.: 19-265
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SP-10

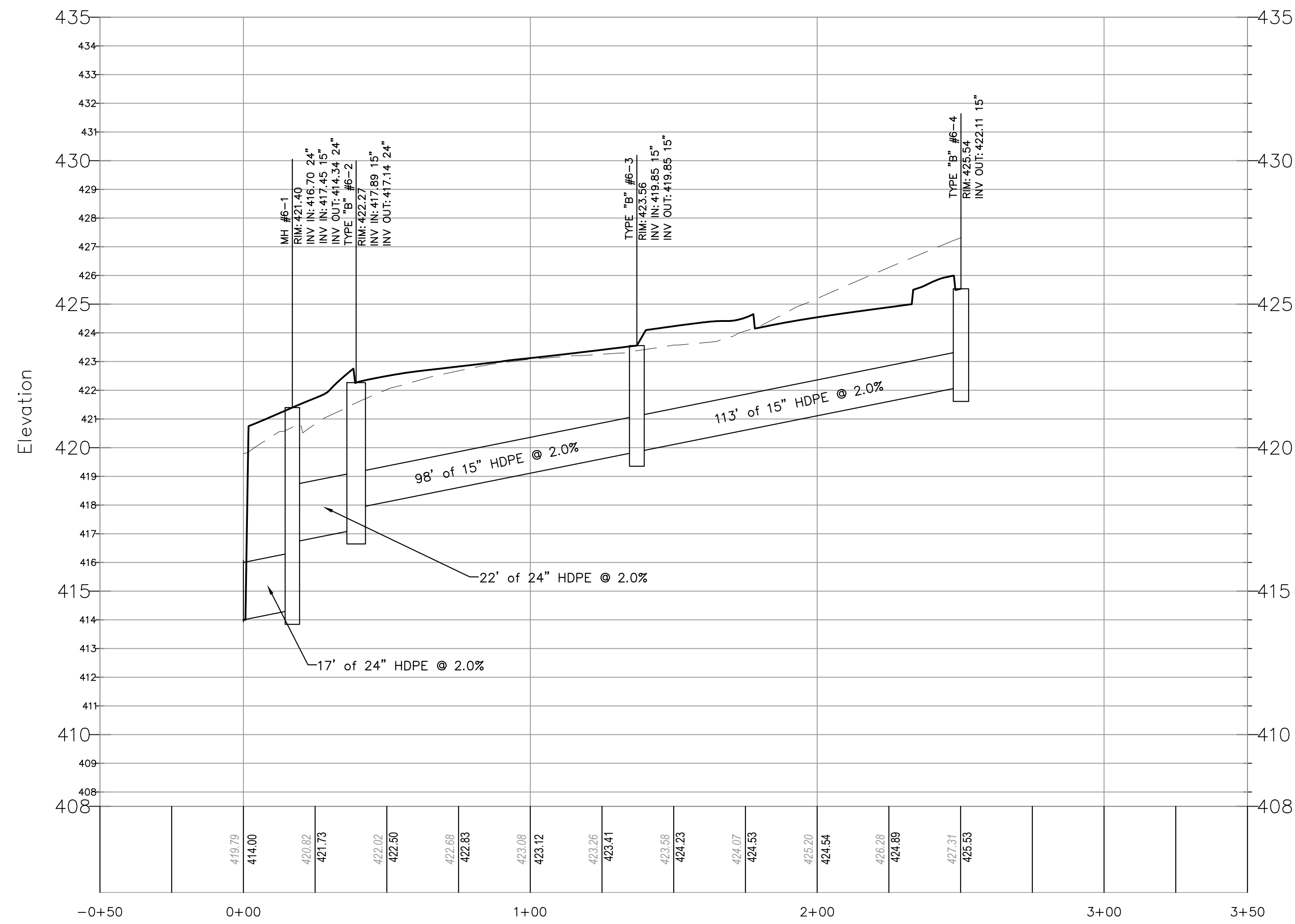
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EXISTING GRADE	— — —
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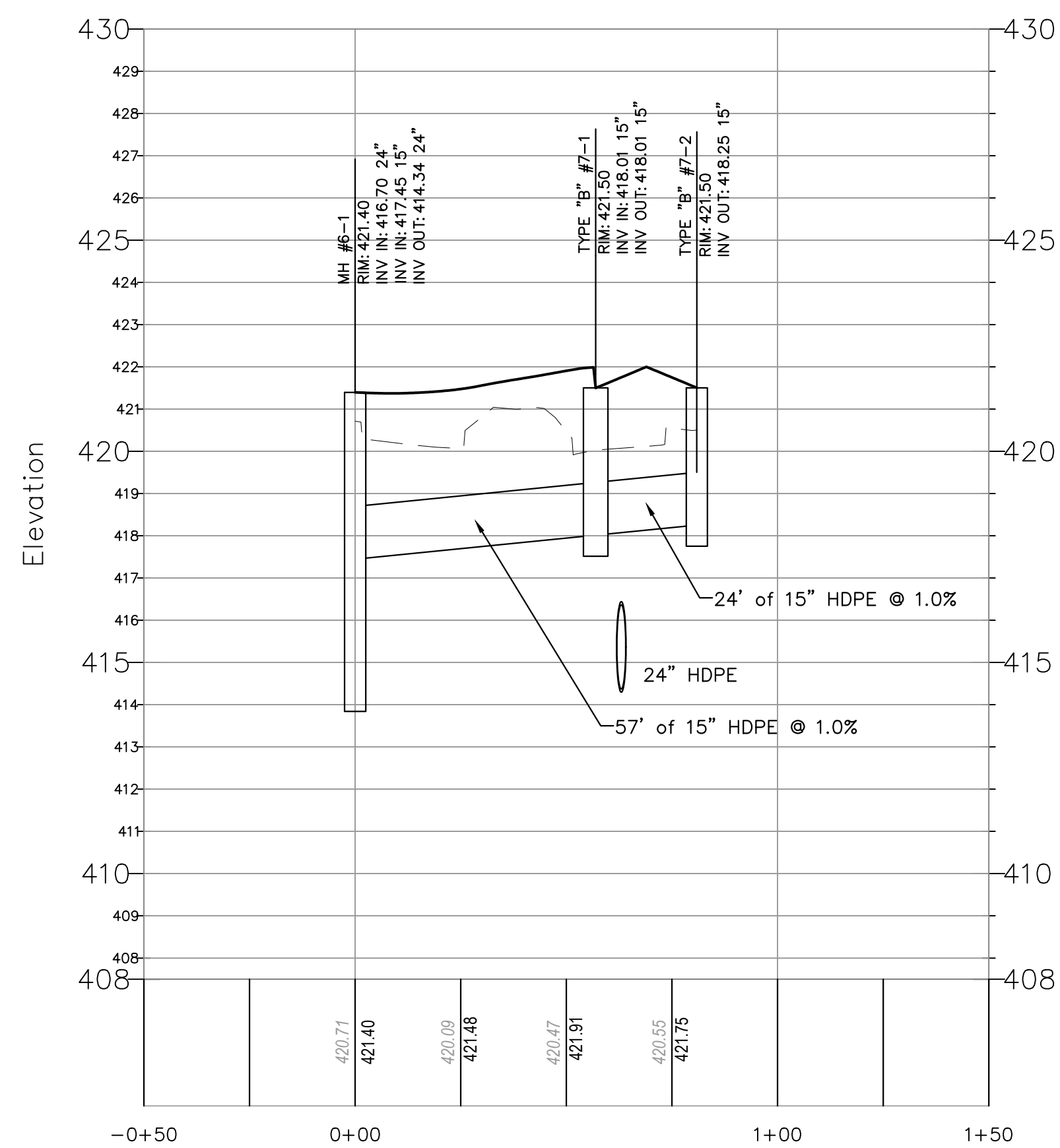
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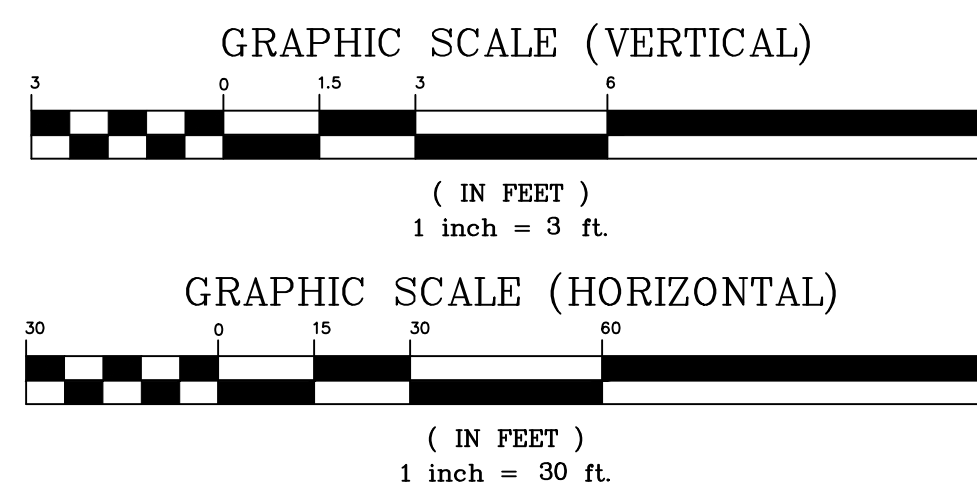
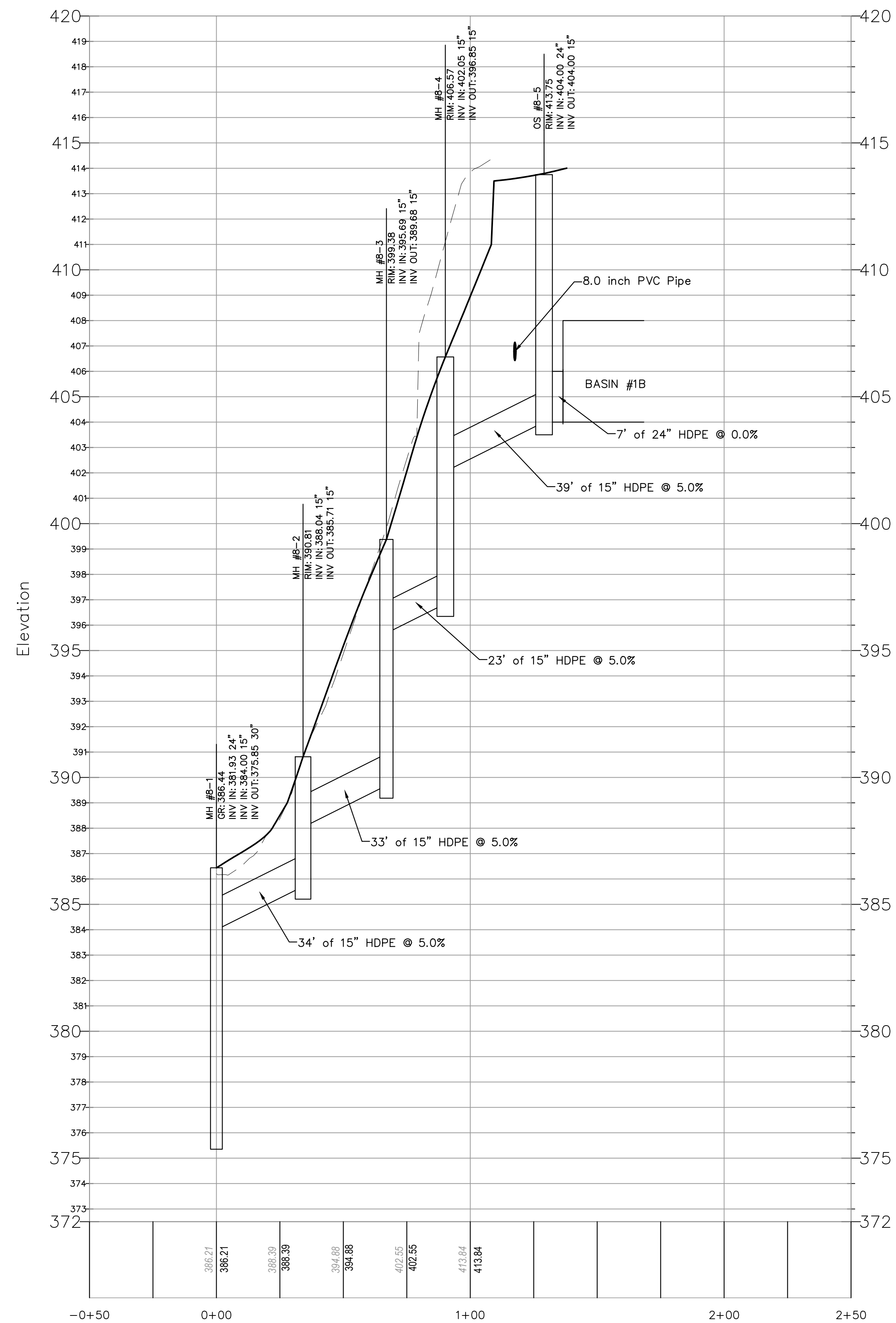
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STORM SEWER #7 PROFILE



STORM SEWER #8 PROFILE



LEGEND	
EXISTING GRADE	---
PROPOSED GRADE	—

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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

**SETTLEMENT PLAN
STORM SEWER PROFILES**



J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36662
DATED: 10/29/2023

Designer: JMP

Draftsman: JMF

Checked By: JMP

Project No.: 19-265

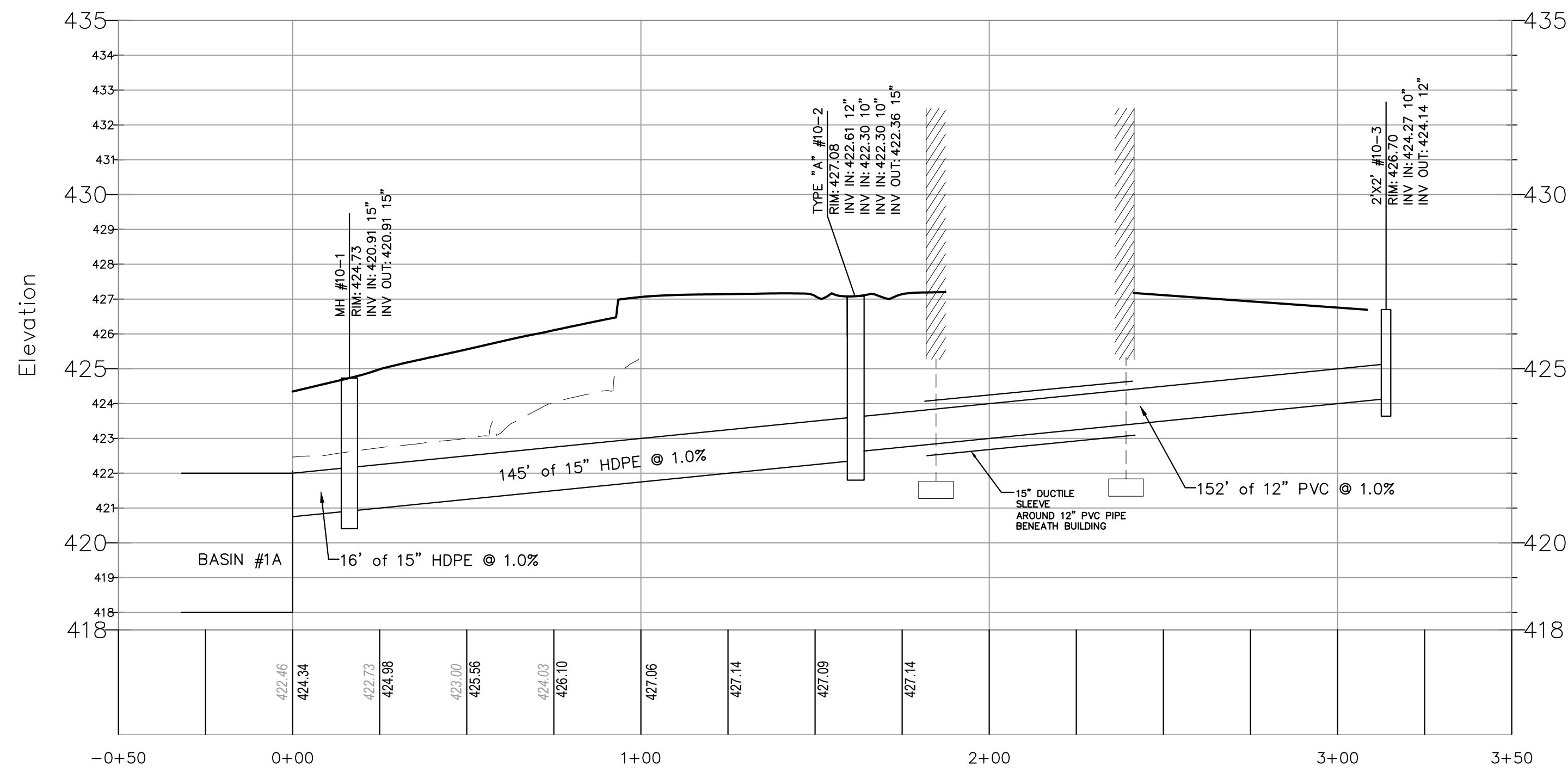
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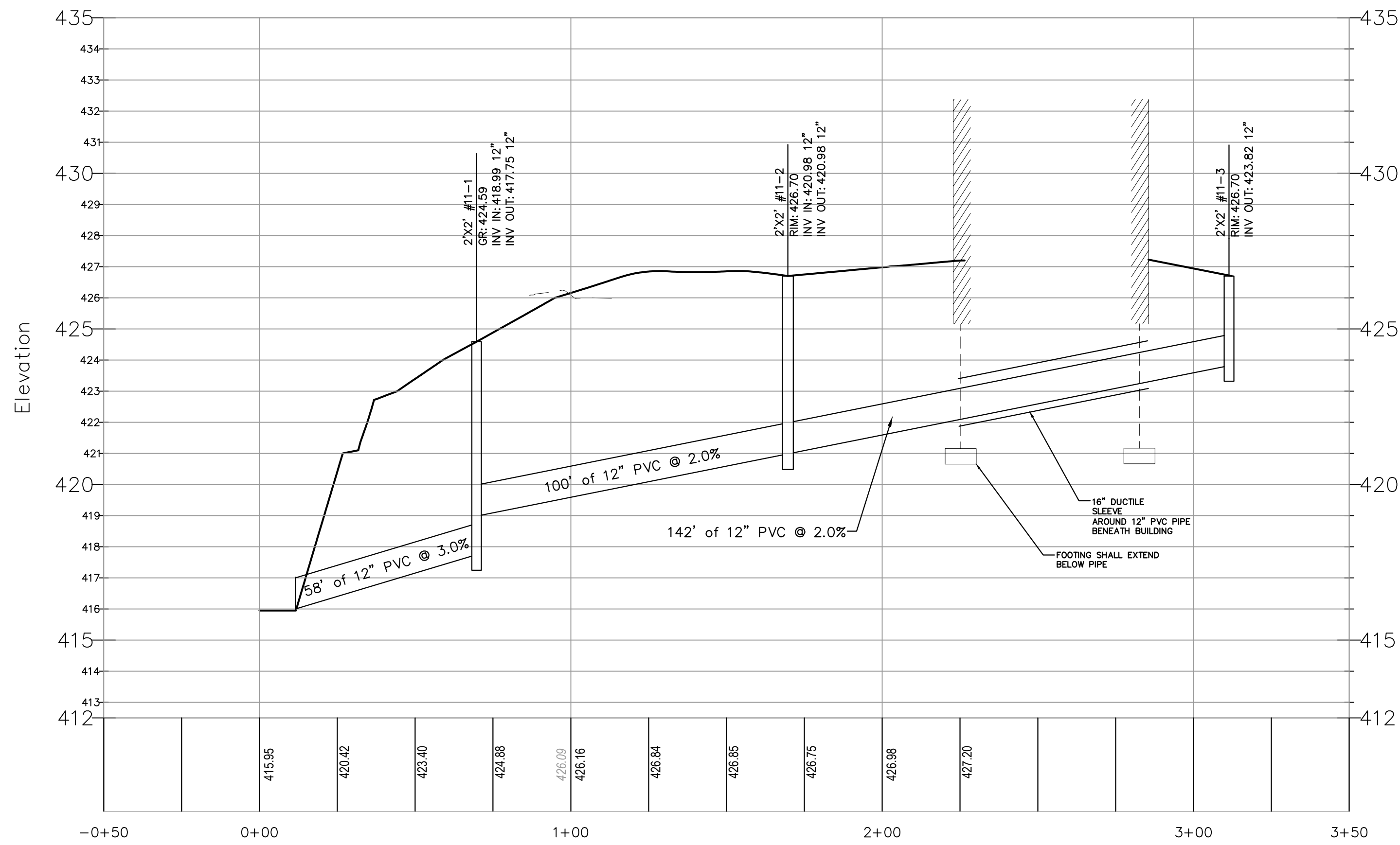
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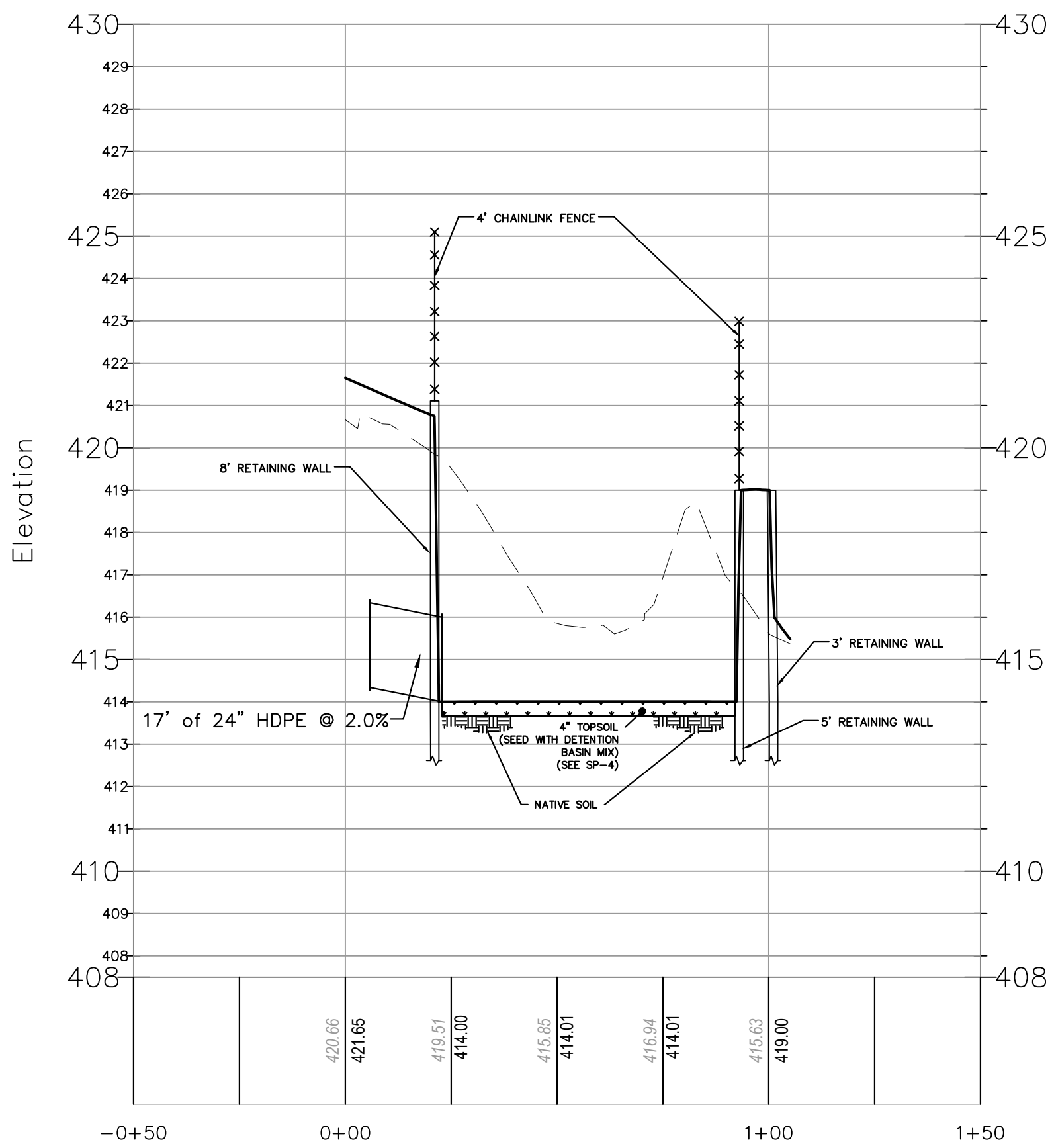
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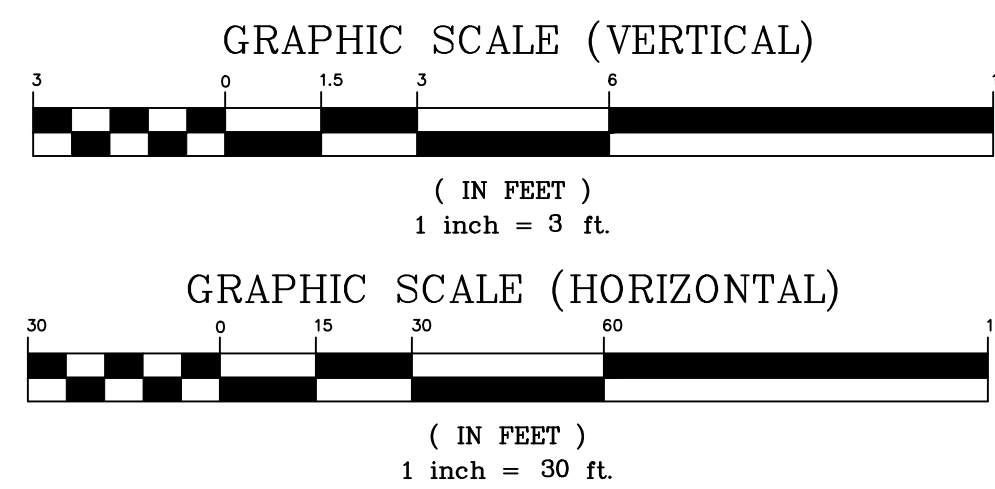
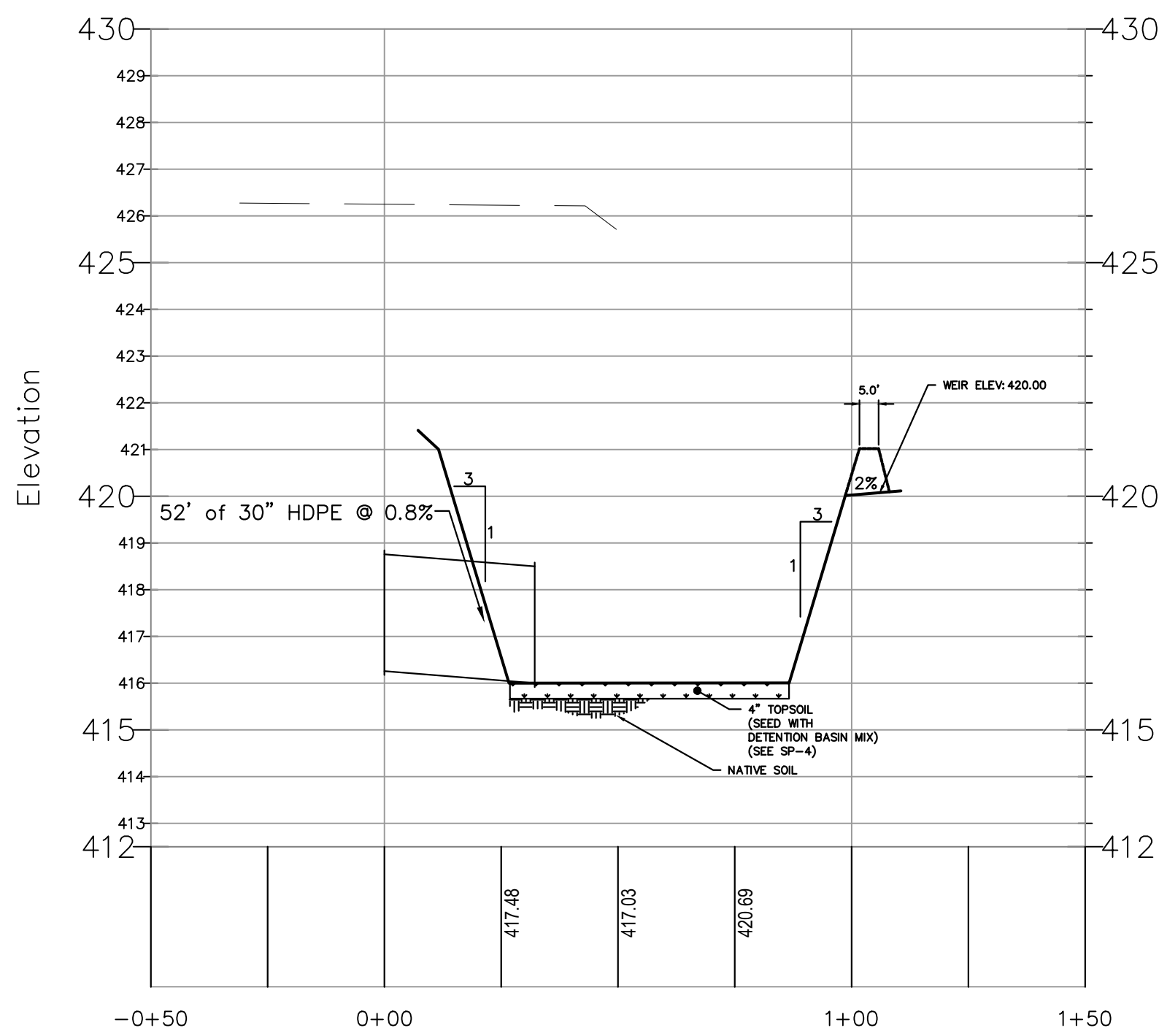
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BASIN #2 PROFILE



BASIN #3 PROFILE



LEGEND	
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PROPOSED GRADE	—

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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

**SETTLEMENT PLAN
STORM SEWER AND BASIN PROFILES**

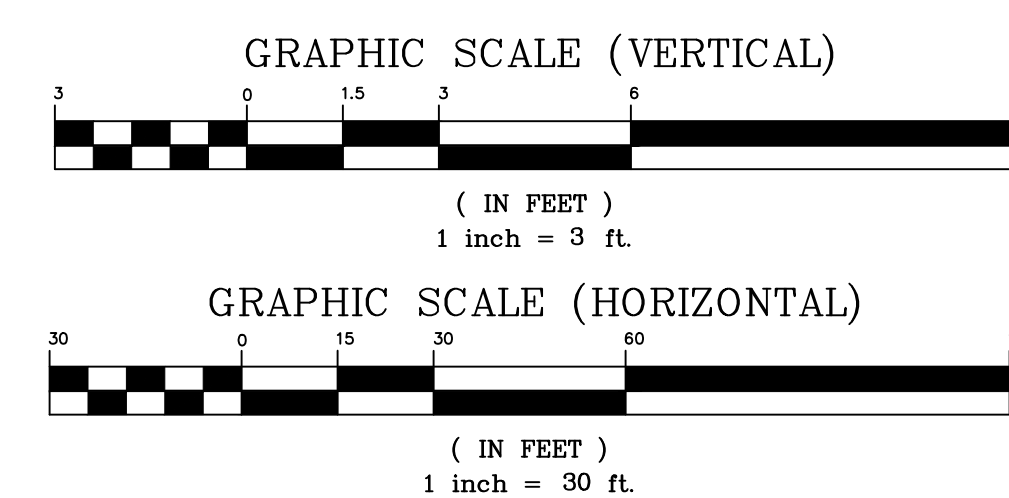
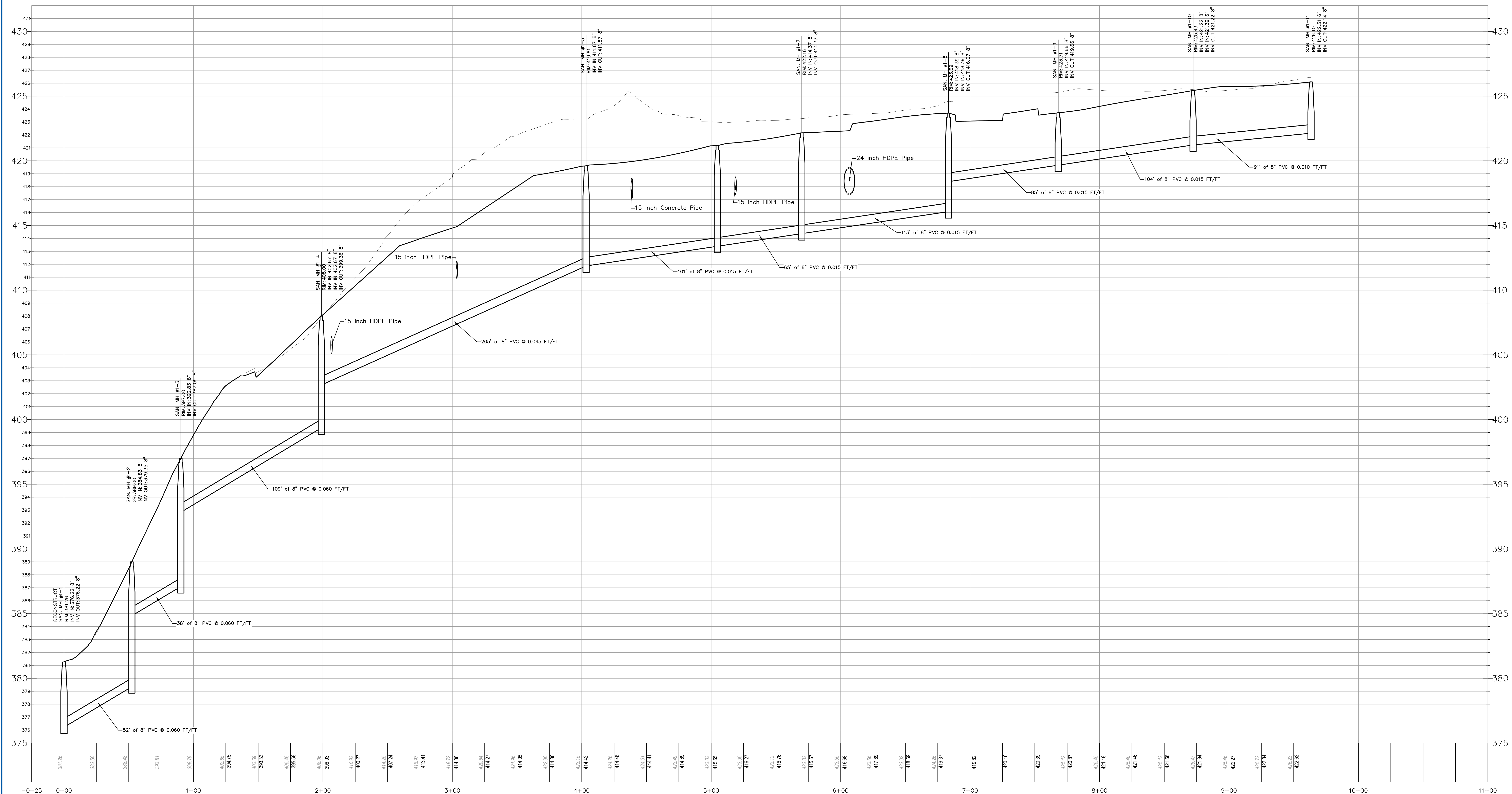
PETRY
ENGINEERING, LLC
DIVISION OF CONCRETE AFFAIRS/LEEDING NAMED ENGINEERS
100 PARKWAY DRIVE • FORT LEE • NEW JERSEY 07024
TEL: 201.207.7004 FAX: 201.207.7004

J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36962

Designer: JMP
Draftsman: JMF
Checked By: JMP
Project No.: 19-265
Scale: HORIZ.: 1" = 3'
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SP-12

SANITARY SEWER #1 PROFILE



LEGEND

EXISTING GRADE	---
PROPOSED GRADE	—

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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

SETTLEMENT PLAN

SANITARY SEWER PROFILES




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

Designer: JMP

Checked By: JMP

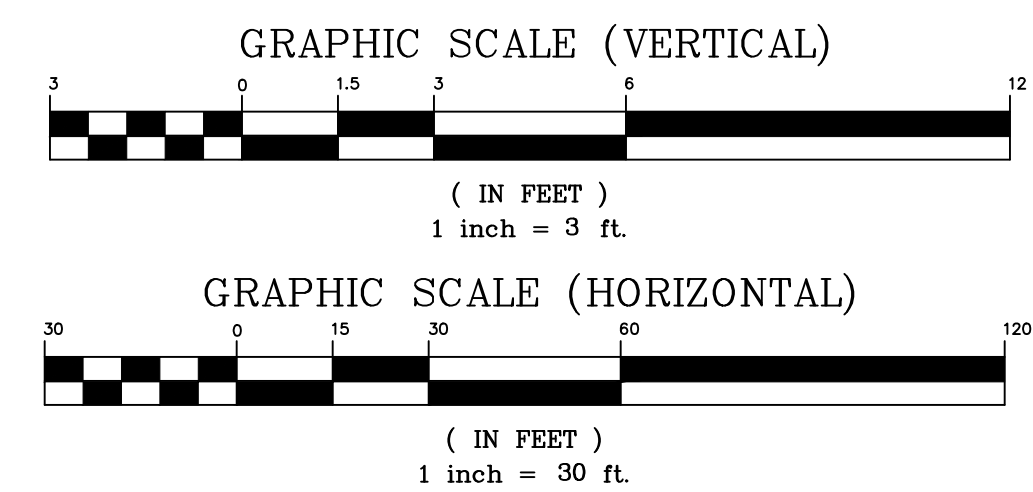
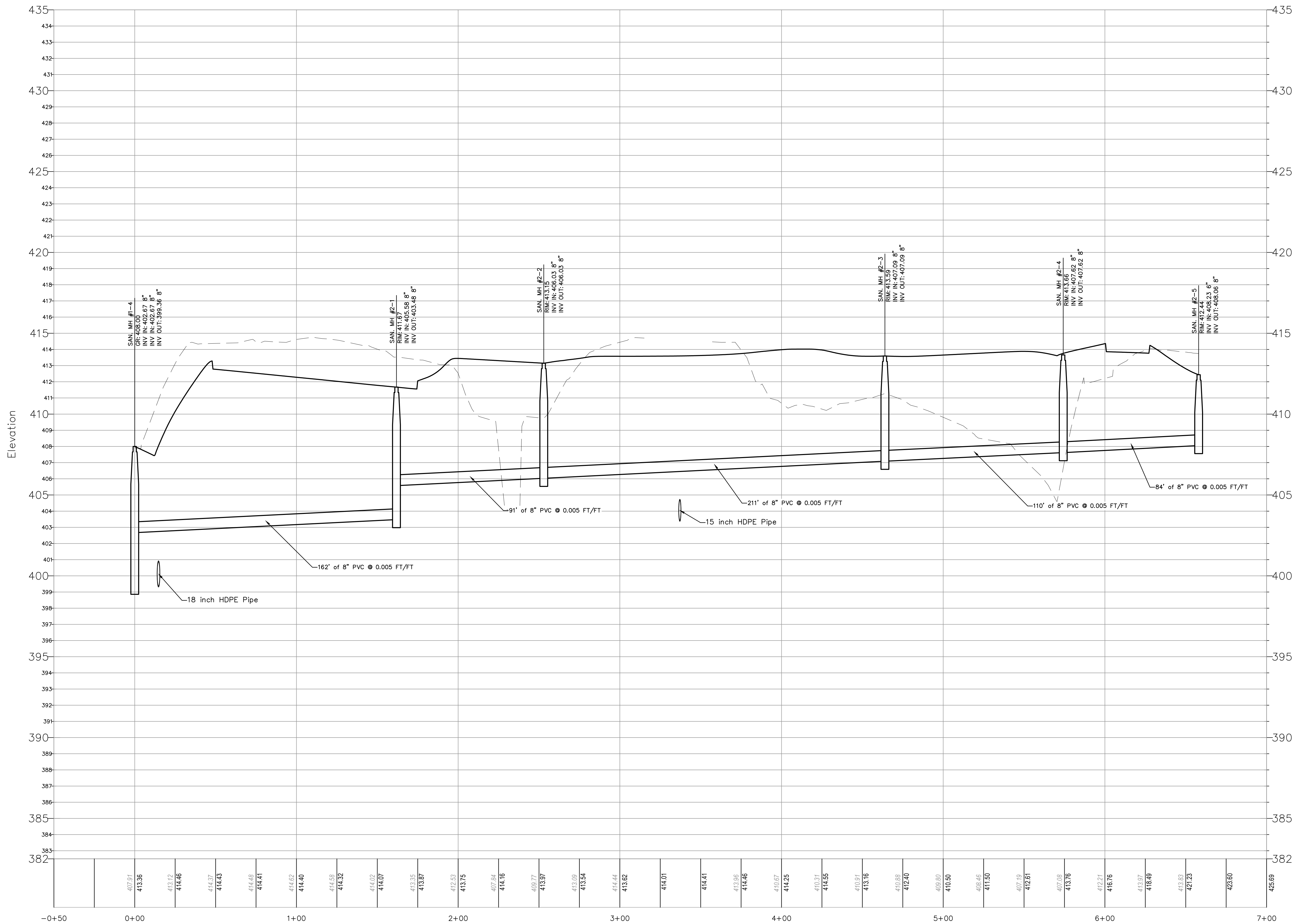
Project No.: 19-265

scale: HORIZ.: 1"=30'
VERT.: 1"=30'

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31-13

SANITARY SEWER #2 PROFILE



LEGEND	
EXISTING GRADE	---
PROPOSED GRADE	—

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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

SETTLEMENT PLAN

SANITARY SEWER PROFILES

PETRY

ENGINEERING, LLC

UNION OF CONTRACTORS AFFILIATED LICENSED PROFESSIONAL ENGINEERS

100 PARKWAY DRIVE • FORT LEE • NEW JERSEY 07024

TEL: 201.227.7004 FAX: 201.227.7004

J. MICHAEL PETRY-PE, PP, RA

NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 38662

DESIGNER: JMP

DRAWN: JMF

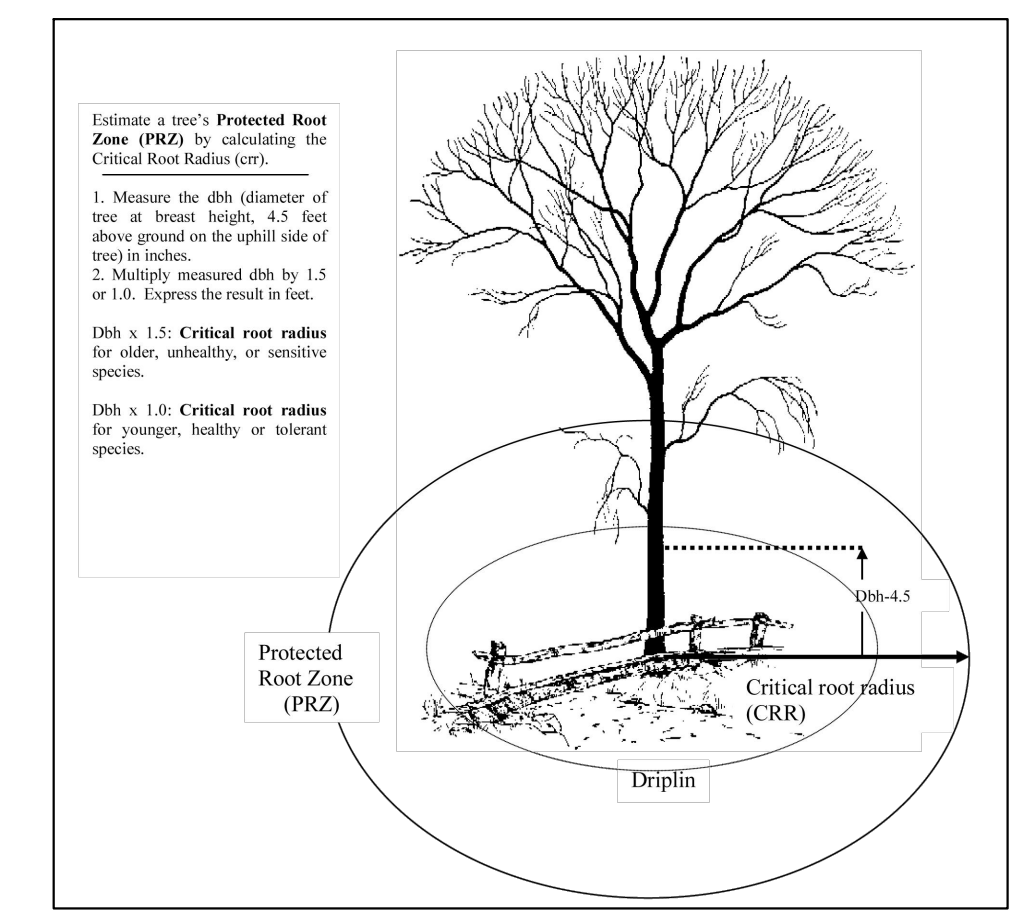
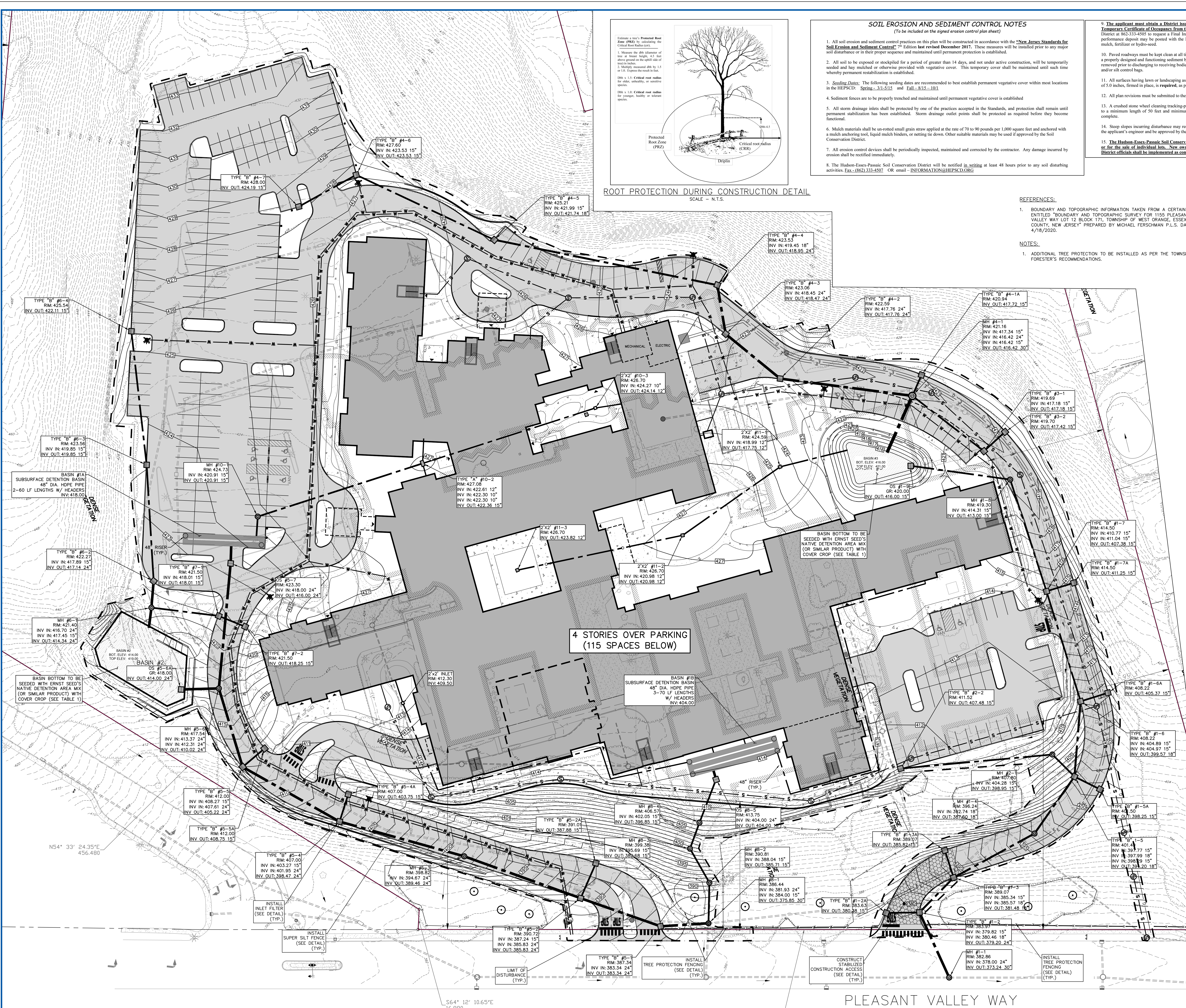
CHECKED BY: JMP

PROJECT NO.: 19-265

SCALE: HORIZ.: 1" = 3'

VERT.: 1" = 3'

Sheet: SP-14



SOIL EROSION AND SEDIMENT CONTROL NOTES
(To be included on the signed erosion control plan sheet)

- All soil erosion and sediment control practices on this plan will be constructed in accordance with the "New Jersey Standards for Soil Erosion and Sediment Control," 7th Edition last revised December 2017. These measures will be installed prior to any major soil disturbance or in their proper sequence and maintained until permanent protection is established.
- All soil to be exposed or stockpiled for a period of greater than 14 days, and not under active construction, will be temporarily seeded and hay mulched or otherwise provided with vegetative cover. This temporary cover shall be maintained until such time whereby permanent rehabilitation is established.
- Seeding Dates:** The following seeding dates are recommended to best establish permanent vegetative cover within most locations in the HEPSCD: Spring - 3/15/17 and Fall - 9/15 - 10/1.
- Sediment fences are to be properly trenched and maintained until permanent vegetative cover is established.
- All storm drainage inlets shall be protected by one of the practices accepted in the Standards, and protection shall remain until permanent stabilization has been established. Storm drainage outlet points shall be protected as required before they become functional.
- Mulch materials shall be un-rotted small grain straw applied at the rate of 70 to 90 pounds per 1,000 square feet and anchored with a mulch anchoring tool, liquid mulch binders, or netting tie down. Other suitable materials may be used if approved by the Soil Conservation District.
- All erosion control devices shall be periodically inspected, maintained and corrected by the contractor. Any damage incurred by erosion shall be rectified immediately.
- The Hudson-Exeter-Passaic Soil Conservation District will be notified in writing at least 48 hours prior to any soil disturbing activities. Fax: (800) 333-4507 OR email: INFORMATION@HEPSCD.ORG

2. The applicant must obtain a District issued Report of Compliance prior to applying for the Certificate of Occupancy or Temporary Certificate of Occupancy from the respective municipality, NJ - DCA or any other controlling agency. Contact the District at 862-333-4505 to request a Final Inspection, giving advanced notice upon completion of the rehabilitation measures. A performance deposit may be posted with the District when winter weather or snow cover prohibits the proper application of seed, mulch, fertilizer or hydro-seed.

10. Paved roadways must be kept clean at all times. Do not utilize a fire or garden hose to clean roads unless the runoff is directed to a properly designed and functioning sediment basin. Water pumped out of the excavated areas contains sediments that must be removed prior to discharging to receiving bodies of water using removable pumping stations, sump pits, portable sedimentation tanks and/or silt control bags.

11. All surfaces having lawn or landscaping as final cover are to be provided topsoil prior to re-seeding, sodding or planting. A depth of 5.0 inches, firm in place, is required, as per the Standards for Topsoiling and Land Grading, last revised December 2017.

12. All plan revisions must be submitted to the District for proper review and approval.

13. A crushed stone wheel cleaning tracking-pad is to be installed at all site exits using 2 1/2" crushed angular stone (ASTM 2 or 3) to a minimum length of 50 feet and minimum depth of 6". All driveways must be provided with crushed stone until paving is complete.

14. Steep slopes incurring disturbance may require additional stabilization measures. These "special" measures shall be designed by the applicant's engineer and be approved by the Soil Conservation District.

15. **The Hudson-Exeter-Passaic Soil Conservation District shall be notified, in writing, for the sale of any portion of the project or for the sale of individual lots. New owners' information shall be provided. Additional measures deemed necessary by District officials shall be implemented as conditions precedent.**

REFERENCES:

- BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1155 PLEASANT VALLEY WAY LOT 12, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY" PREPARED BY MICHAEL FERSCHMAN P.L.S. DATED 4/18/2020.
- NOTES:**
- ADDITIONAL TREE PROTECTION TO BE INSTALLED AS PER THE TOWNSHIP FORESTER'S RECOMMENDATIONS.

TEMPORARY STABILIZATION

- SOILS EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, SHALL BE SEEDED & HAY MULCHED AND STABILIZED WITH TEMPORARY VEGETATIVE COVER OR OTHER APPROVED.
- STREETS, DRIVEWAYS AND PARKING AREAS NOT SCHEDULED FOR PAVING WITHIN THE ALLOTTED TIME FRAME SHALL BE STABILIZED USING PERMANENT SUBBASE COURSE. THIS SUBBASE COURSE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING.
 - ALL AREAS NOT SCHEDULED FOR PAVING SHALL RECEIVE A TEMPORARY SEEDING IMMEDIATELY FOLLOWING ROUGH GRADING.
 - APPLY FERTILIZER AT A RATE OF 500 LBS./ACRE OR 11 LBS./1,000 SF. OF 10-20-10 EQUIVALENT. APPLY LIMESTONE AT A RATE OF 2 TONS/ACRES.
 - WORK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES UNTIL UNIFORM.
 - TEMPORARY SEEDING WILL BE A MIX OF ANNUAL RYEGRASS OR PERENNIAL RYEGRASS AT A RATE OF 100 LBS./ACRE OR 1 LB./1,000 SF.
 - UN-ROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, TO BE APPLIED AT A RATE OF 1-1/2 TO 2 TONS/ACRE (70 TO 90 LBS./1,000 SF).

SEQUENCE OF CONSTRUCTION

- INSTALL SILT FENCE, INLET FILTERS, AND ANTI-TRACKING PADS (DURATION: APPROX. 1 WEEK)
- SAWOUT AND REMOVE PARKING LOT (DURATION: APPROX. 4 WEEKS)
- INSTALL NEW STORM SEWERS (DURATION: APPROX. 6 WEEKS)
- INSTALL NEW SANITARY SEWER (DURATION: APPROX. 2 WEEKS)
- CONSTRUCT NEW BUILDINGS (DURATION: APPROX. 12 MONTHS)
- STABILIZE AND SEED ALL DISTURBED AREAS NOT SCHEDULED FOR PAVING (DURATION: APPROX. 1 WEEK)
- PAVE PARKING LOT (DURATION: APPROX. 2 WEEKS)
- REMOVE ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES (DURATION: APPROX. 1 WEEK)

PERMANENT STABILIZATION

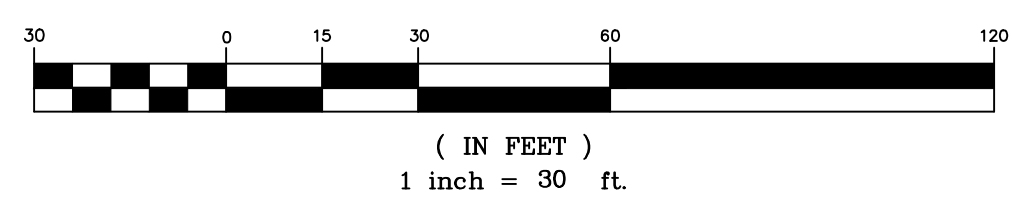
- ALL AREAS NOT SCHEDULED FOR CONSTRUCTION OR LANDSCAPING TO BE STABILIZED USING SEED MIXTURE NO. 13 CONSISTING OF HARD FESCUE AND/OR CHEWING FESCUE AT A RATE OF 175 LBS./ACRE (4 LBS./1,000 SF), STRONG CREEPING RED FESCUE PERENNIAL RYEGRASS & KENTUCKY BLUEGRASS (BLEND), BOTH AT A RATE OF 45 LBS./ACRE (1 LBS./1,000 SF).
- UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO SPREAD TOPSOIL AT A RATE OF 500 LBS./ACRE OR 11 LBS./1,000 SF. OF 10-10-10 EQUIVALENT.
- WORK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES UNTIL UNIFORM.
- REMOVE ALL SURFACE DEBRIS AND STONES 2 INCHES OR LARGER.
- UN-ROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, TO BE APPLIED AT A RATE OF 1-1/2 TO 2 TONS/ACRE (70 TO 90 LBS./1,000 SF).
- INSPECT SEEDBED JUST BEFORE SEEDING IF TRAFFIC HAS LEFT THE SOIL COMPACTED. THE AREA MUST BE RE-TILLED AND FIRMED AS ABOVE.
- A DEPTH OF 3 INCHES OF TOPSOIL IS REQUIRED FOR ALL SURFACES HAVING LAWN OR LANDSCAPING AS FINAL COVER.

SOIL EROSION LEGEND

- X SILT FENCE (SEE DETAIL)
- LIMIT OF DISTURBANCE
- SOIL BOUNDARY LINE
- SUPER SILT FENCE
- INLET FILTER
- STABILIZED CONSTRUCTION ACCESS (SEE DETAIL)

TOTAL AREA OF DISTURBANCE:
418,000 SQ.FT. OR 9.596 ± AC.

GRAPHIC SCALE



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4	REVISED PER SETTLEMENT PLAN	10/13/2023	JMP
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	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

SETTLEMENT PLAN
SOIL EROSION AND SEDIMENT CONTROL PLAN

PETRY ENGINEERING, LLC
DIVISION OF CONCRETE AFFAIRS, L.L.C. (A DELAWARE LIMITED LIABILITY COMPANY)
1155 PLEASANT VALLEY WAY, SUITE 200, WEST ORANGE, NJ 07063
TEL: 973.207.0000 FAX: 973.207.0001

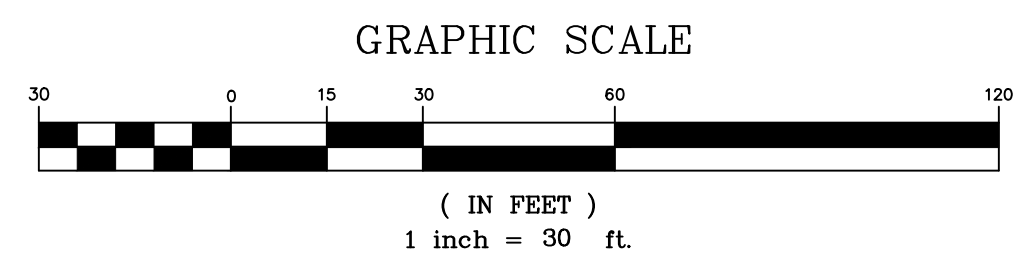
J. MICHAEL PETRY-PE, P.P., R.A.
NJ PROFESSIONAL ENGINEER, LIC. NO. 36662

DESIGNER: JMP
DRAWN: JMF
CHECKED BY: JMP
PROJECT NO.: 19-265
SCALE: 1" = 30'
SHEET: SP-15



LUMINAIRE SCHEDULE "REFER TO LIGHTING FIXTURES FOR COMPLETE CATALOG NUMBERS"													
Symbol	Qty	Arrangement	Fixture Type	Description	Manufacturer	Catalog Number	GCY	SLP	Total Watts	Delivered Lumens	Mounting Height		
●	42	Single	SL1	3.5 FOOT ROUND BOLLARD	KIM LIGHTING	PA01R403-12-000-300T-010	3000K	0.900	21.76	1108	2.3.5		
●	47	Single	SL1	POST TOP LED FIXTURE, TYPE 3 DISTRIBUTION	KIM LIGHTING	LP02S46L-40-300T-010L-PT-010	3000K	0.900	80	7893	12		
●	4	Single	SL2	POST TOP LED FIXTURE, TYPE 5 WIDE DISTRIBUTION	KIM LIGHTING	LP02S46L-40-300T-010L-PT-010	3000K	0.900	80	6881	12		
●	11	Single	SL3	UPPER SERIES AREA LIGHT, TYPE 5 WIDE DISTRIBUTION	Recess Products	VP-L-64L-135-300T-000W-010	3000K	0.900	135	12237	16.25		
■	2	Back-Side	SL5	UPPER SERIES AREA LIGHT, TYPE 5 WIDE DISTRIBUTION	Recess Products	VP-L-64L-135-300T-000W-010	3000K	0.900	270.2	28884	25		
■	1	Single	SL6	LED WALLPACK, TYPE 4 DISTRIBUTION	KIM LIGHTING	WM02D-40L-100-007-010	4000K	0.900	104	12405	16		
■	2	Single	SL7	UPPER SERIES AREA LIGHT, TYPE 5 WIDE DISTRIBUTION	Recess Products	VP-L-64L-135-300T-000W-010	3000K	0.900	135.0	14767	25		

CALCULATION SUMMARY									
Label	Calc Type	Units	Avg	Max	Min	Avg/Wts	Max/Wts	Pct/Gr	Pct/Gr
OVERALL	Summation	ft	0.72	22.7	0.0	N/A	N/A	20	25
PARKING AND DRIVEWAYS	Summation	ft	2.06	13.8	0.3	0.47	40.00		



- 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.L.C. 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.

4	REVISED PER SETTLEMENT PLAN	10/13/2023	JMP
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

**SETTLEMENT PLAN
LIGHTING PLAN**



J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36662

Designer: JMP

Draftsman: JMF

Checked By: JMP

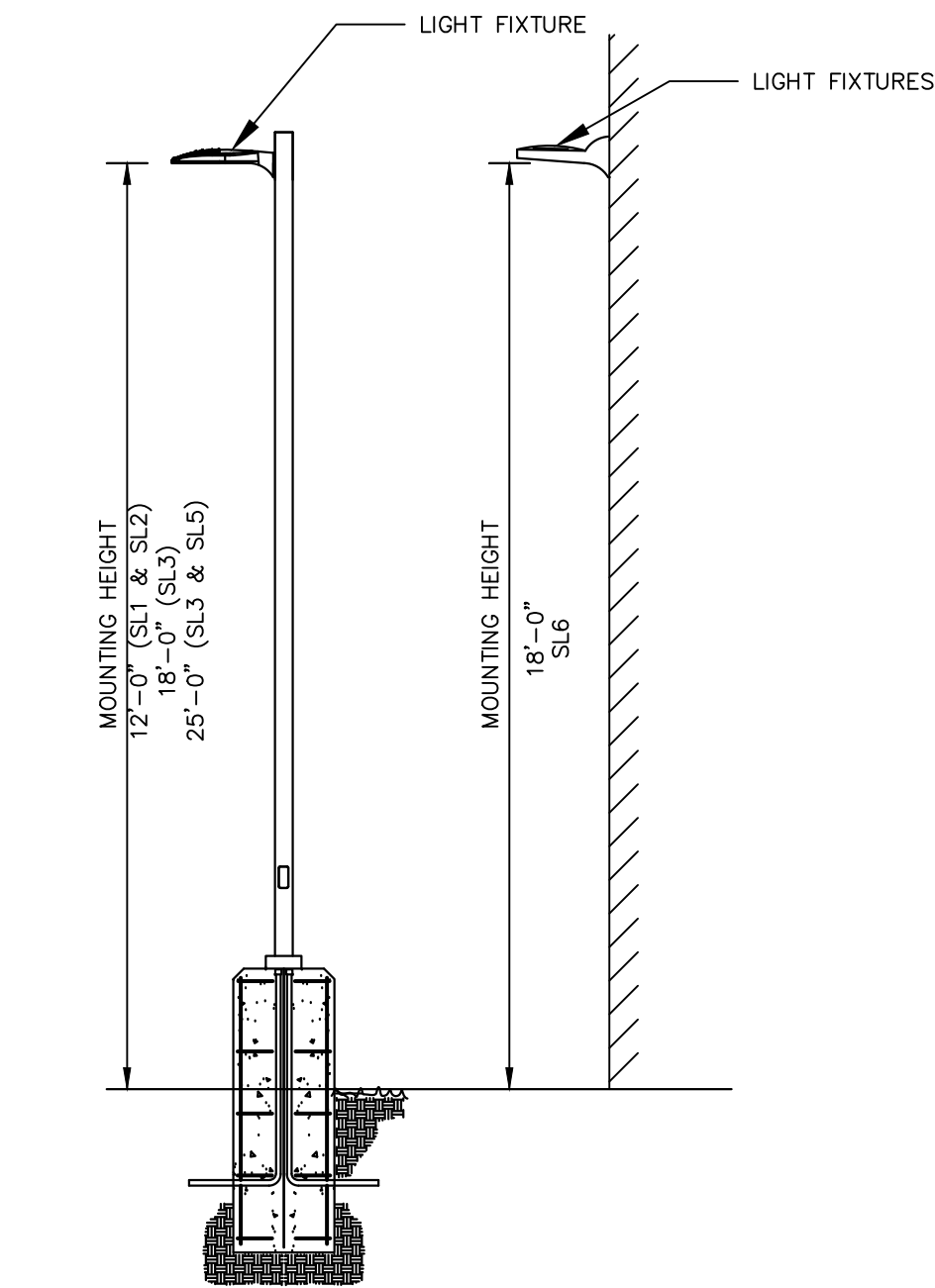
Project No.: 19-265

Scale: 1" = 30'

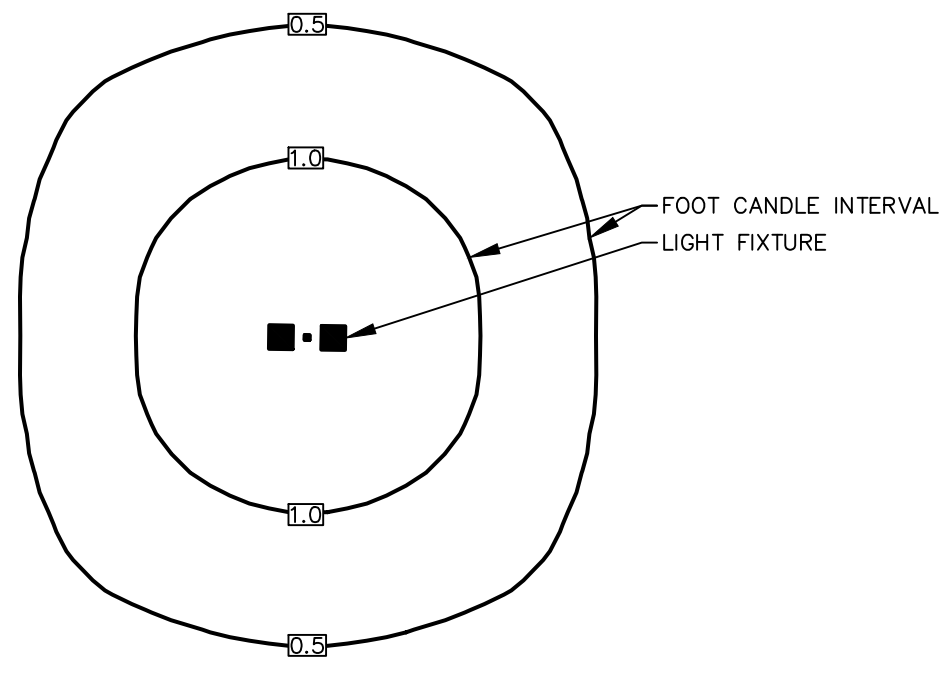
Sheet:

SP-16

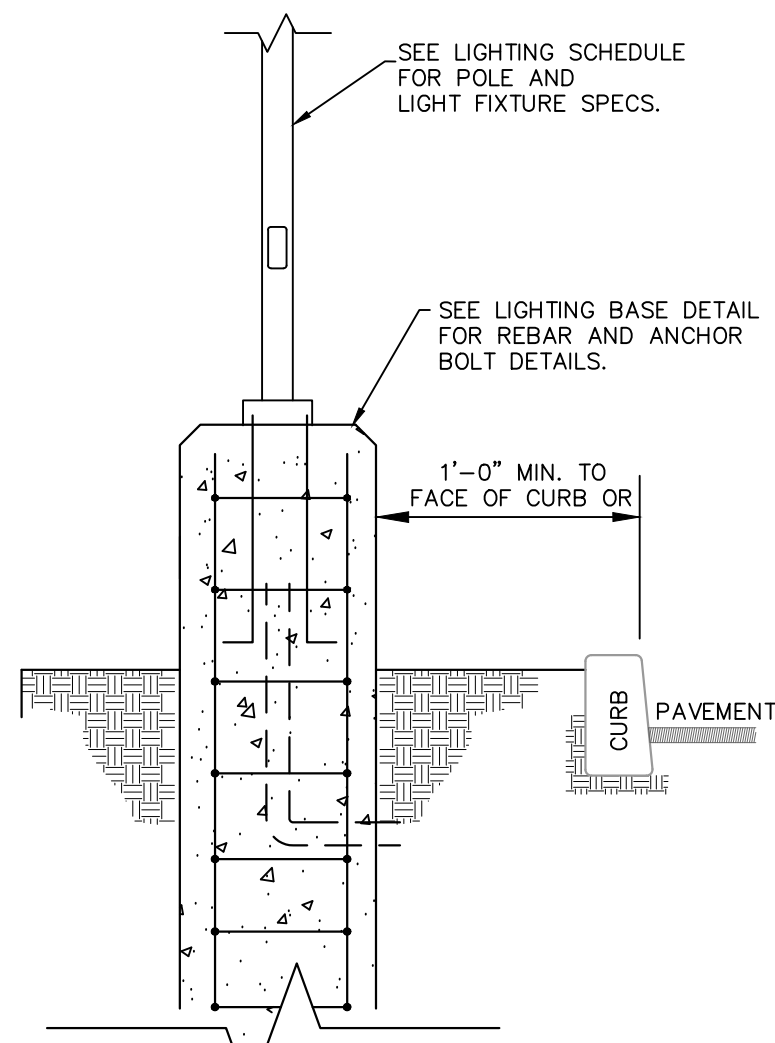
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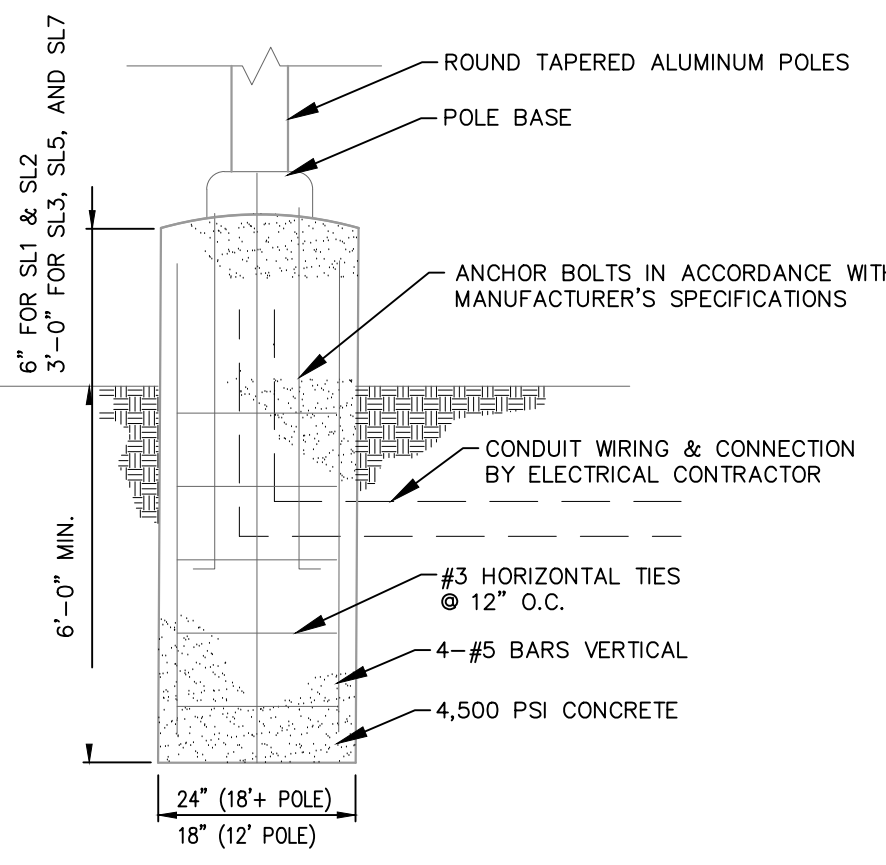
MOUNTING HEIGHT DIAGRAM
SCALE - N.T.S.



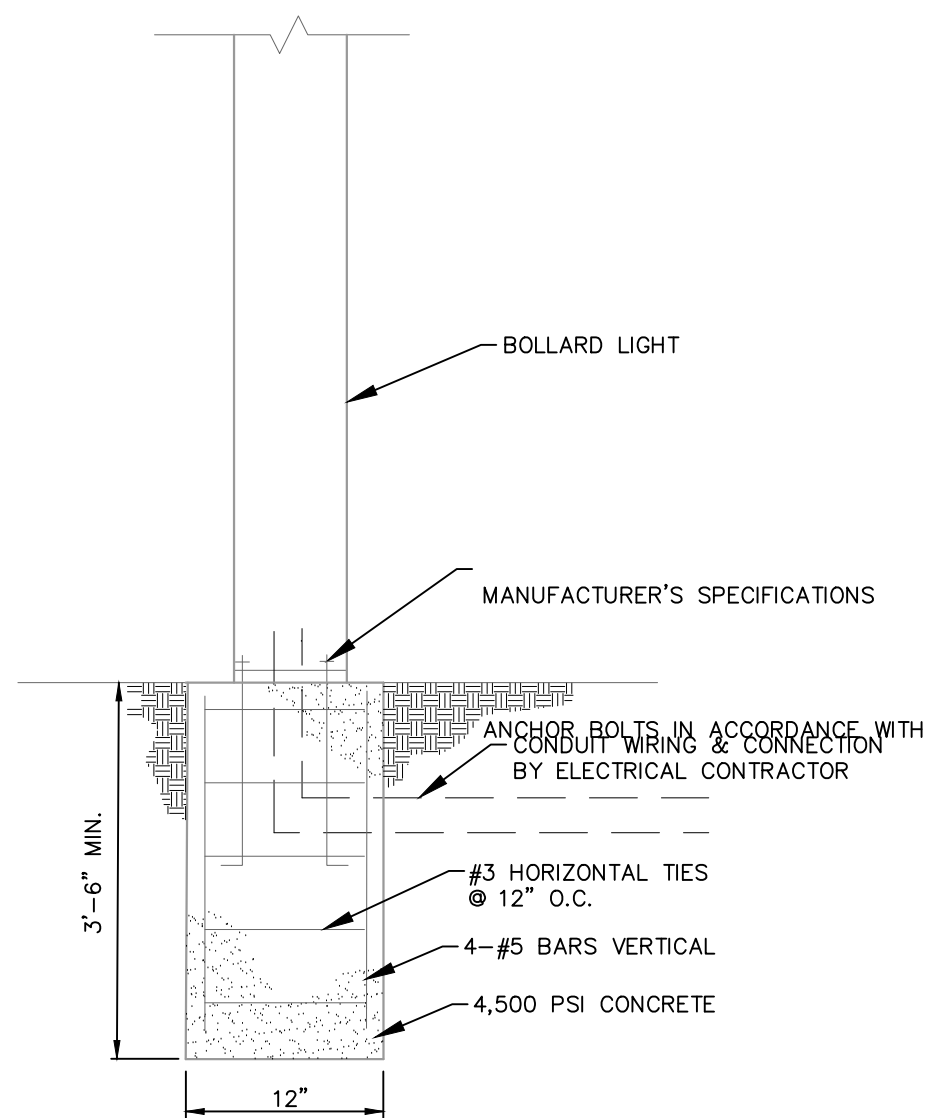
ISOLUX DIAGRAM
SCALE - N.T.S.



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 Only Compliant, No Light Configuration
- Elegant form factor blended with Performance Grades
- Easy-to-install, easy-to-maintain
- 100-watt LED
- Bluetooth-enabled H2000

CONTROL TECHNOLOGY
Bluetooth® DMX

PA7R
BOLLARD

INSTALLATION

• Mounting height is 12' to 18' (SL1 & SL2)

RELATED PRODUCTS

• Pavilion Series
• Pavilion Series

KEY DATA

Item	Value
Lumen Range	397-2250
Beam Angle	14-22
Efficiency Range (lm/W)	25-100
Reported Life (Hours)	1,700,000

"BOL" FIXTURE

KIMLIGHTING®
UR20
ARCHITECTURAL AREA/STREET

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

FEATURES

- 20" size in pole top, pole and wall mount
- High performance optics up to 10,000 delivered lumens
- Elegant form factor
- Diffusion lens option
- 50-watt LED
- 50-watt LED

CONTROL TECHNOLOGY
Bluetooth® DMX

UR20
ARCHITECTURAL AREA/STREET

INSTALLATION

• Mounting height is 12' to 18' (SL1 & SL2)

RELATED PRODUCTS

• Pavilion Series
• Pavilion Series

KEY DATA

Item	Value
Lumen Range	2604-16874
Beam Angle	14-22
Efficiency Range (lm/W)	25-100
Reported Life (Hours)	1,700,000

"SL1" & "SL2" FIXTURES

KIMLIGHTING®
VIPER L
STRIKE

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

FEATURES

- 12" size in pole top, pole and wall mount
- High performance optics up to 10,000 delivered lumens
- Elegant form factor
- Diffusion lens option
- 50-watt LED
- 50-watt LED

CONTROL TECHNOLOGY
Bluetooth® DMX

VIPER L
STRIKE

INSTALLATION

• Mounting height is 12' to 18' (SL1 & SL2)

RELATED PRODUCTS

• Pavilion Series
• Pavilion Series

KEY DATA

Item	Value
Lumen Range	2604-16874
Beam Angle	14-22
Efficiency Range (lm/W)	25-100
Reported Life (Hours)	1,700,000

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

KIMLIGHTING®
WDM
WALL MOUNTED

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

FEATURES

- 12" size in pole top, pole and wall mount
- High performance optics up to 10,000 delivered lumens
- Elegant form factor
- Diffusion lens option
- 50-watt LED
- 50-watt LED

CONTROL TECHNOLOGY
Bluetooth® DMX

WDM
WALL MOUNTED

INSTALLATION

• Mounting height is 12' to 18' (SL1 & SL2)

RELATED PRODUCTS

• Pavilion Series
• Pavilion Series

KEY DATA

Item	Value
Lumen Range	5,950-80,000
Beam Angle	14-22
Efficiency Range (lm/W)	25-100
Reported Life (Hours)	1,700,000

"SL6" FIXTURE

LUMINAIRE SCHEDULE "REFER TO LIGHTING FIXTURE CUTSHEETS FOR COMPLETE CATALOG NUMBERS"									
Symbol	Qty	Arrangement	Fixture Type	Description	Manufacturer	Catalog Number	CCT	LLF	Total Watts
43	1	Single	BOL	3.5 FOOT ROUND LED BOLLARD	KIM LIGHTING	PA7R-M25-125-020-367-M15	3000K	0.90	21.75
47	1	Single	SL1	POST TOP LED FIXTURE, TYPE 5 DISTRIBUTION	Kim Lighting	UR20-48L-48-367-5W-HCL-PT-M15	3000K	0.90	80
11	1	Single	SL2	POST TOP LED FIXTURE, TYPE 5 WIDE DISTRIBUTION	Kim Lighting	UR20-48L-48-367-5W-HCL-PT-M15	3000K	0.90	80
2	1	Single	SL3	VIPER SERIES AREA LIGHT, TYPE 5 WIDE DISTRIBUTION	Beacon Products	VP-L-64L-135-367-50W-M15	3000K	0.90	1337
2	1	Single	SL5	VIPER SERIES AREA LIGHT, TYPE 5 WIDE DISTRIBUTION	Beacon Products	VP-L-64L-135-367-50W-M15	3000K	0.90	275.2
1	1	Single	SL6	LED WALLPACK, TYPE 5 DISTRIBUTION	KIM LIGHTING	WM-D-48L-135-487-4F-M15	4000K	0.90	12405
2	1	Single	SL7	VIPER SERIES AREA LIGHT, TYPE 5 WIDE DISTRIBUTION	Beacon Products	VP-L-64L-135-367-50W-M15	3000K	0.90	174.97

CALCULATION SUMMARY									
Label	Category	Units	Avg	Max	Min	Avg/Min	Max/Min	Pct/Min	Pct/Max
OVERALL	Performance	Fc	0.72	22.7	0.6	3.6	N/A	20	20
PARKING AND DRIVEWAYS	Performance	Fc	2.54	10.8	0.3	8.47	46.93		

KIMLIGHTING®
PR4
ALUMINUM POLE

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

FEATURES

- 12" size in pole top, pole and wall mount
- High performance optics up to 10,000 delivered lumens
- Elegant form factor
- Diffusion lens option
- 50-watt LED
- 50-watt LED

CONTROL TECHNOLOGY
Bluetooth® DMX

PR4
ALUMINUM POLE

INSTALLATION

• Mounting height is 12' to 18' (SL1 & SL2)

RELATED PRODUCTS

• Pavilion Series
• Pavilion Series

KEY DATA

Item	Value
Lumen Range	2604-16874
Beam Angle	14-22
Efficiency Range (lm/W)	25-100
Reported Life (Hours)	1,700,000

POLE FOR "SL1" AND "SL2" FIXTURES

KIMLIGHTING®
SSS-B Series Poles

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

FEATURES

- 12" size in pole top, pole and wall mount
- High performance optics up to 10,000 delivered lumens
- Elegant form factor
- Diffusion lens option
- 50-watt LED
- 50-watt LED

CONTROL TECHNOLOGY
Bluetooth® DMX

SSS-B
Series Poles

INSTALLATION

• Mounting height is 12' to 18' (SL1 & SL2)

RELATED PRODUCTS

• Pavilion Series
• Pavilion Series

KEY DATA

Item	Value
Lumen Range	2604-16874
Beam Angle	14-22
Efficiency Range (lm/W)	25-100
Reported Life (Hours)	1,700,000

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

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

SETTLEMENT PLAN LIGHTING DETAILS

4 REVISED PER SETTLEMENT PLAN 10/13/2023 JMP

3 ELIMINATION OF PHASE IV 01/06/2023 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

DESIGNED BY: JMP
DRAWN BY: JMF
CHECKED BY: JMP
PROJECT NO.: 19-265
SCALE: AS NOTED
SHEET: SP-17

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

ALL SITE IMPROVEMENTS TO BE PERFORMED IN ACCORDANCE WITH
NJDOT SPECIFICATIONS (LATEST EDITION) UNLESS OTHER WISE NOTED.

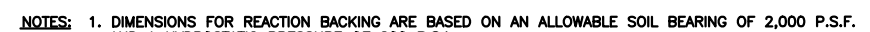
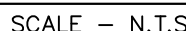
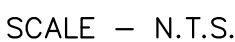
1. ALL SITE IMPROVEMENTS TO BE PERFORMED IN ACCORDANCE WITH ALL JOIST SPECIFICATIONS (LATEST EDITION) UNLESS OTHER WISE NOTED.
2. THESE PLANS REPRESENT THE OVERALL SITE WORK IMPROVEMENTS REQUIRED FOR THE PROJECT CONSTRUCTION. THE CONTRACTOR SHALL FURNISH, INSTALL, TEST, AND COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. AS SUCH, THESE PLANS DO NOT COMPLETELY REPRESENT, NOR ARE THEY INTENDED TO REPRESENT, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITE WORK CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING ALL IMPROVEMENTS DEPicted 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 PROSECUTION OF THE WORK INSOFAR AS THEY HAVE BEEN SHOWN ON THE DRAWINGS. THESE PLANS ARE NOT TO 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 RECORD AND RECORD DATA PROVIDED BY THE OWNER. THIS PLAN IN NO WAY REPRESENTS A GUARANTEE, EXPRESS OR IMPLIED, TO THE ACCURACY OF THE LOCATION OF UTILITIES SHOWN. ADDITIONALLY, THESE PLANS MAKE NO GUARANTEE THAT UTILITIES AND OTHER SUBSURFACE STRUCTURES 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 THIS PROJECT. 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 DESIGNS SHOWN HEREON INAPPROPRIATE OR INEFFECTIVE.
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, INCLUDING 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 REQUIREMENTS OF THE CALIFORNIA 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 WORKDAY. THE CONTRACTOR SHALL TAKE 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 OF VEHICLE ACCESS TO 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 SHALL 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, SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR AT HIS PERMITS, CURB SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE DRAWINGS.
17. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE OF CALIFORNIA WORKERS HEALTH AND SAFETY ACT (N.C.C.R. 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 I OR II SOIL.

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.

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 SERVICES TO THE SITE HAVE 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, CMU, PAVER, 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 SUITABLE 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-SEATED 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 GRADED, 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 DISPOSED OF AS REQUIRED.

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.

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 AWWA 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 THE DRAWINGS, OR AS REQUIRED BY SPECIFIC SOIL CONDITIONS ENCOUNTERED. THE MINIMUM BLOCK REACTION DETAILS SHOWN ON THE DRAWINGS ARE THRUFAST BLOCKS. WHERE GALVANIZED RODS 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 PROTECTION AS REQUIRED BY THE WATER DEPARTMENT. 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 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 AS 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 IN 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 CORPORATIONS.
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 NOTED. PIPE CLASSIFICATION FOR ALL 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 PROVIDE PROPER BRACING AND PIPE CLASSIFICATION FOR 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 9:00 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.



2. A HYDRAULIC PRESSURE OF 200 P.S.I. SHALL BE MAINTAINED THROUGHOUT THE CURE PERIOD. THESE CONDITIONS PRECLUDE THE USE OF RESTRAINED JOINT PIPE, OR WHERE AN ADDITIONAL RESTRAINT MAY BE REQUIRED, AT ALL DEAD ENDS. THE CONTRACTOR SHALL PROVIDE FOR A PROPER GLAND AND CONSTRUCT CONCRETE THROAT BLOCK.

CONCRETE SHALL BE 3,500 P.S.I.

4. ALL FITTINGS AND VALVES CONNECTED WITH THROAT BLOCKS WILL BE INSTALLED WITH POLYETHYLENE ENGAGEMENT AND PROPERLY TIED TO PROTECT BOLTS AND NUTS FROM CONCRETE.

REACTION BAKING SCHEDULE

PIPE SIZE	TEEL OR PLUG		90° BEND		45° BEND		22 1/2° BEND		1 1/4° BEND	
	L	D	L	Vert. (V)	L	Vert. (V)	L	Vert. (V)	L	Vert. (V)
10"	4'-0"	3'-0"	4'-0"	3'-0"	3'-0"	2'-0"	2'-0"	1'-0"	1'-0"	1'-0"
12"	4'-0"	3'-0"	4'-0"	3'-0"	3'-0"	2'-0"	2'-0"	1'-0"	1'-0"	1'-0"
16"	5'-3"	3'-3"	4'-0"	3'-0"	4'-0"	3'-0"	3'-0"	2'-0"	1'-6"	1'-0"

* REQUIRES SPECIAL ANCHORAGE, SEE CONTRACT PLANS

THRUST BLOCK DETAILS

N.T.S.

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

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

SETTLEMENT PLAN CONSTRUCTION NOTES



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

Designer: JMP

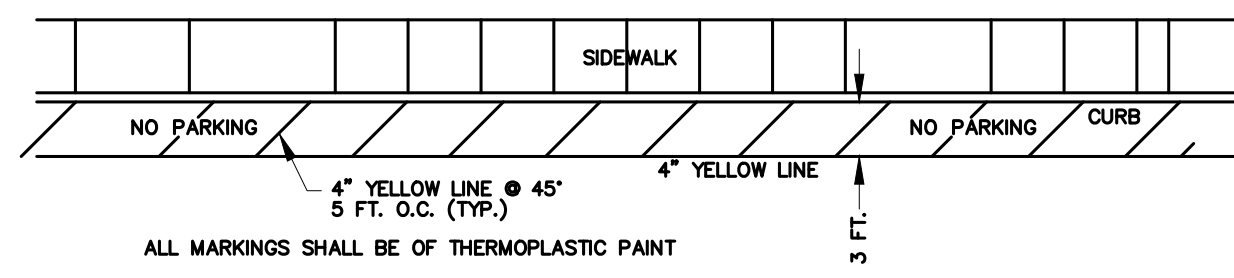
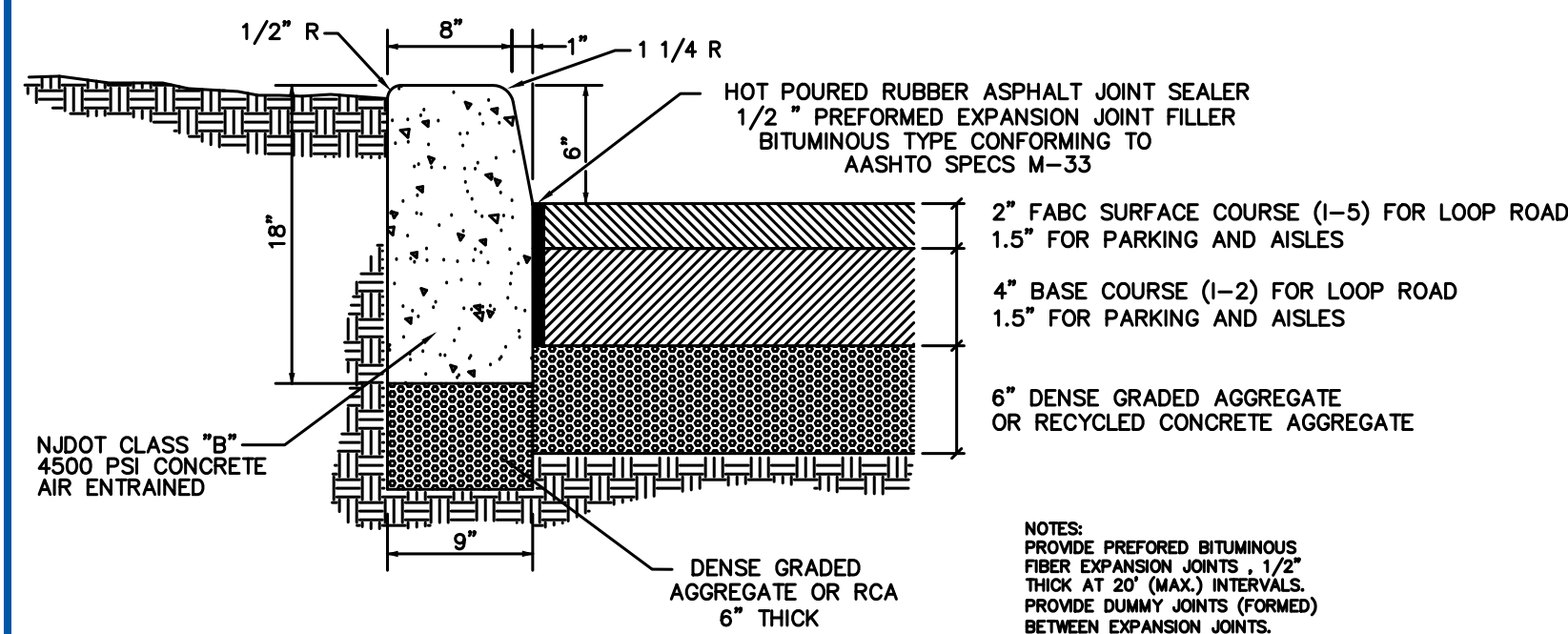
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Project No.: 19-

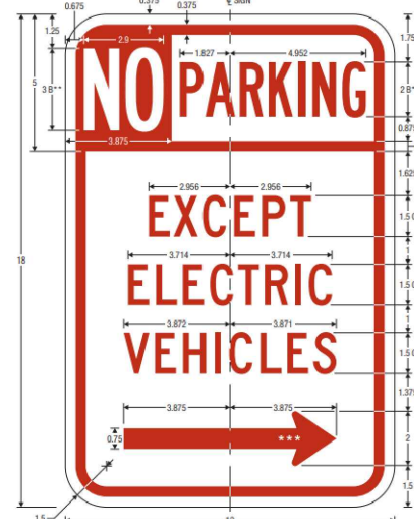
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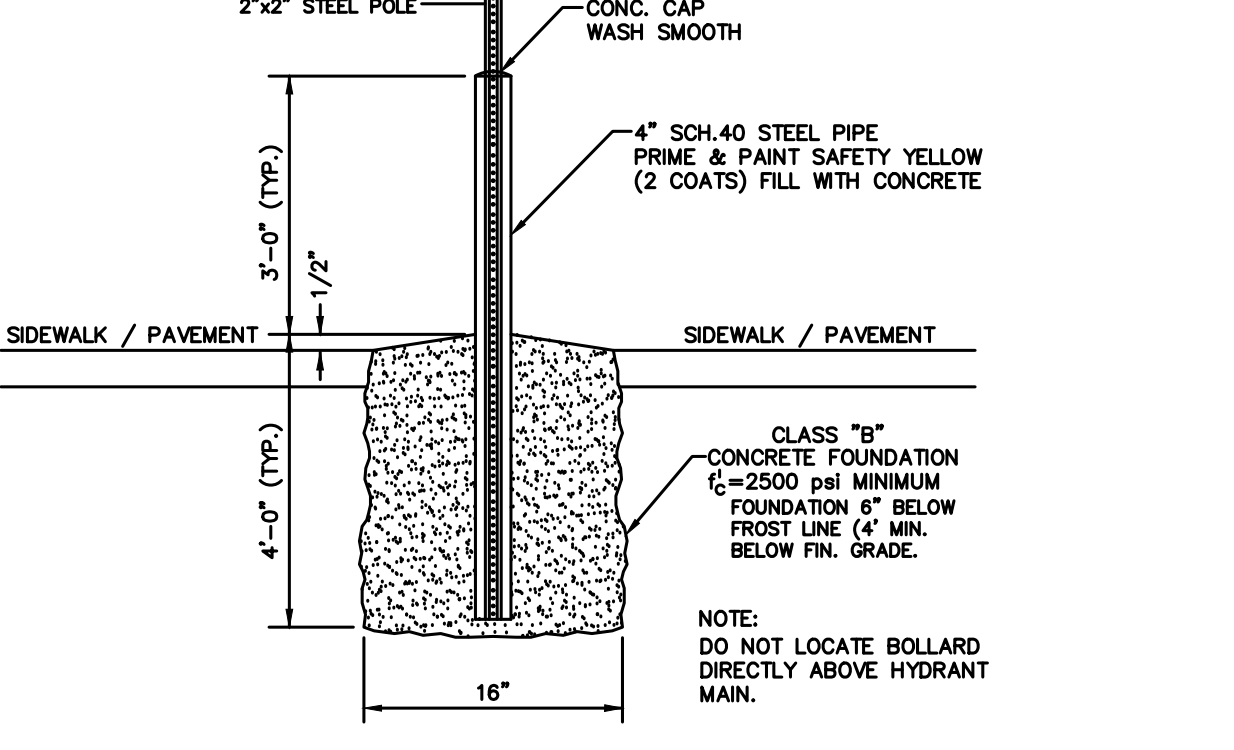
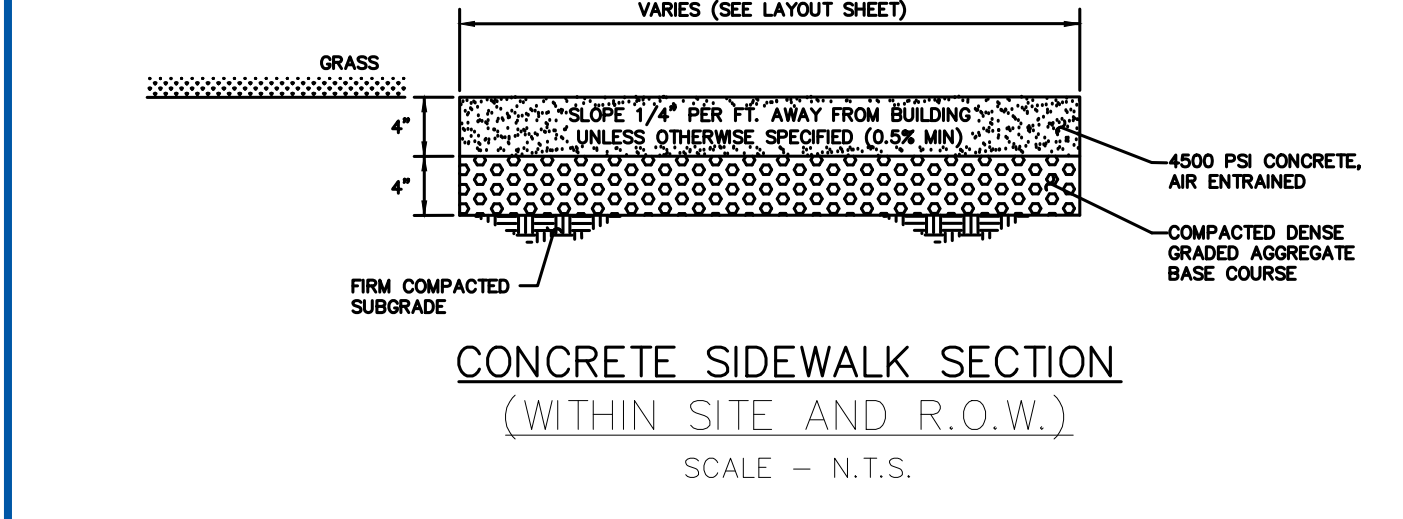
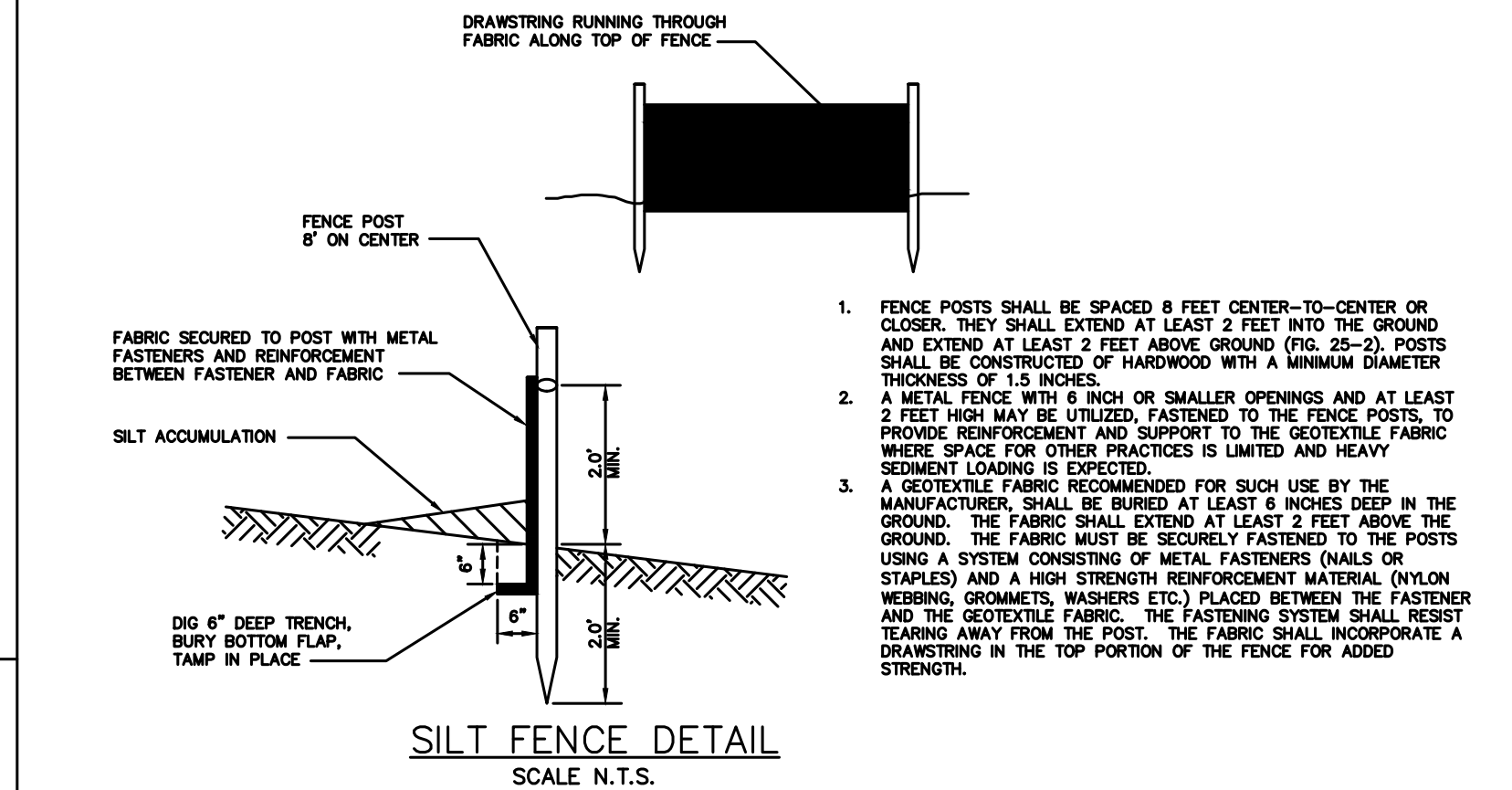
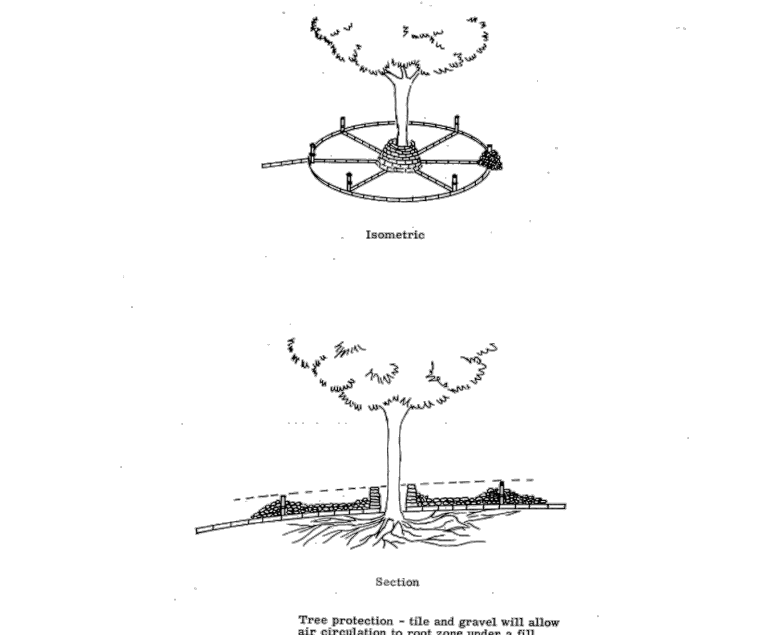
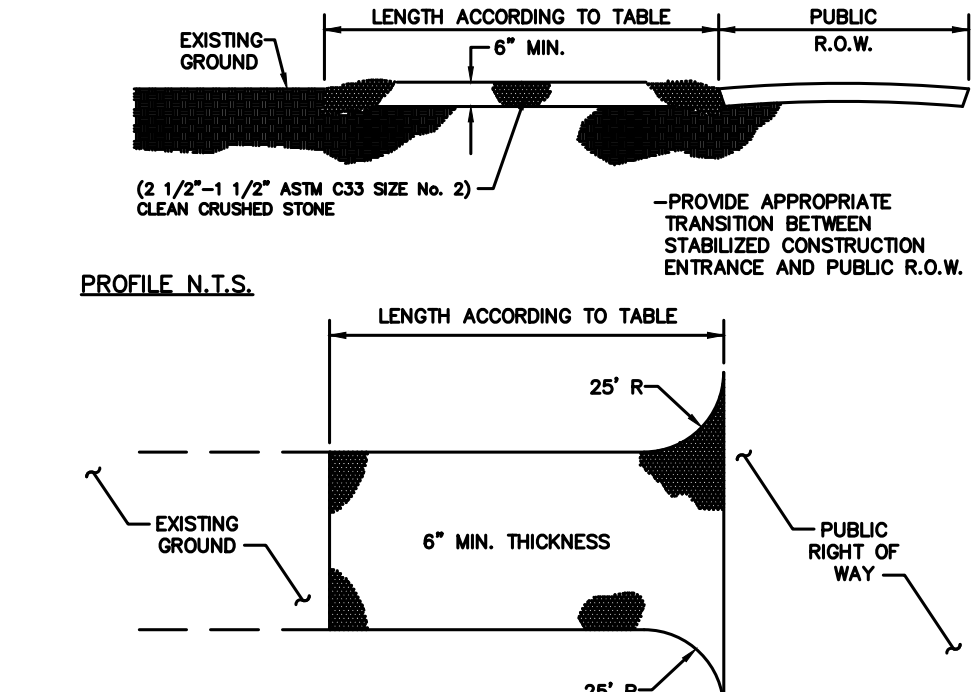
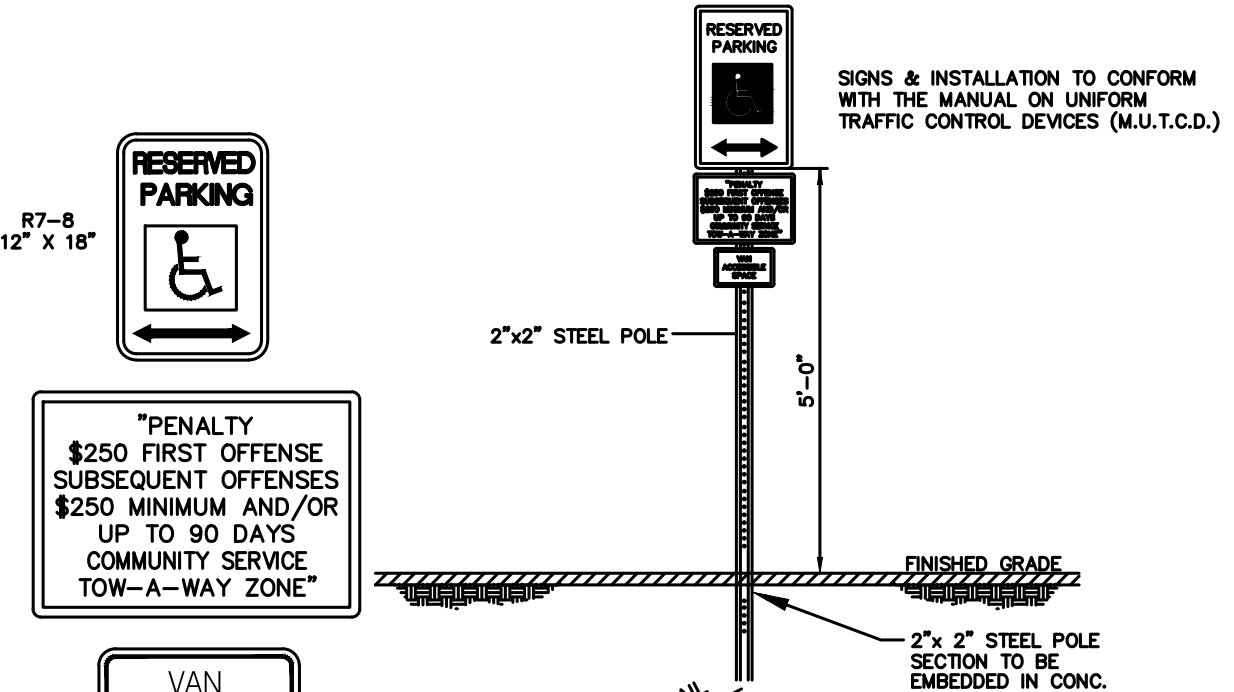
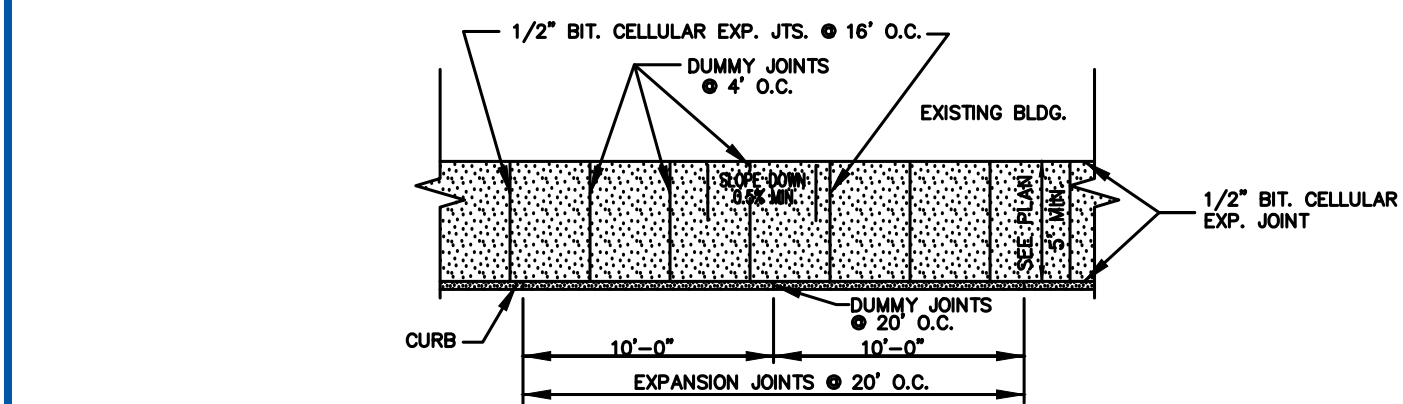
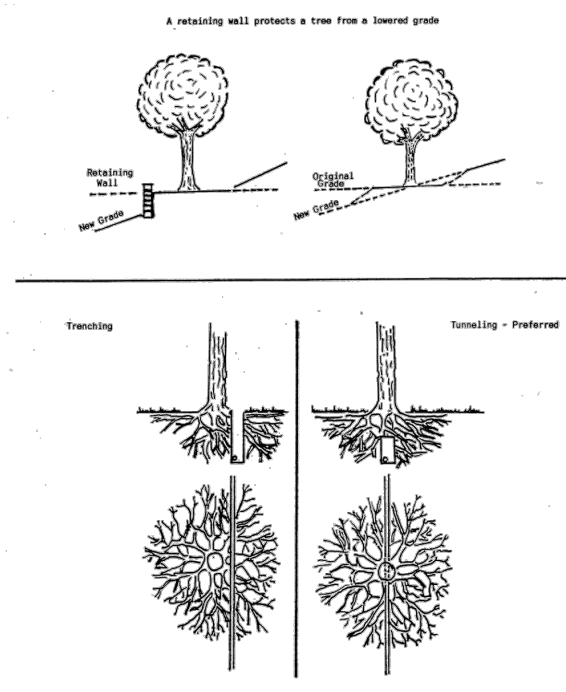
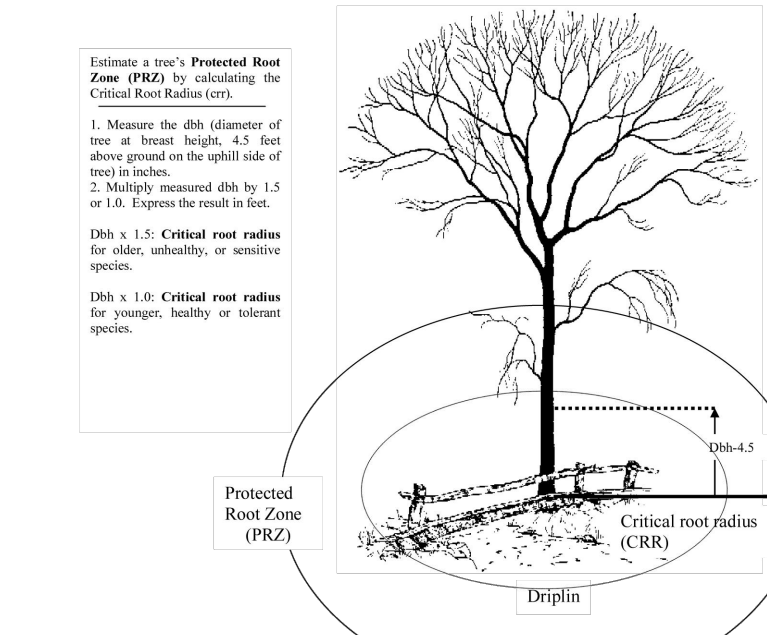
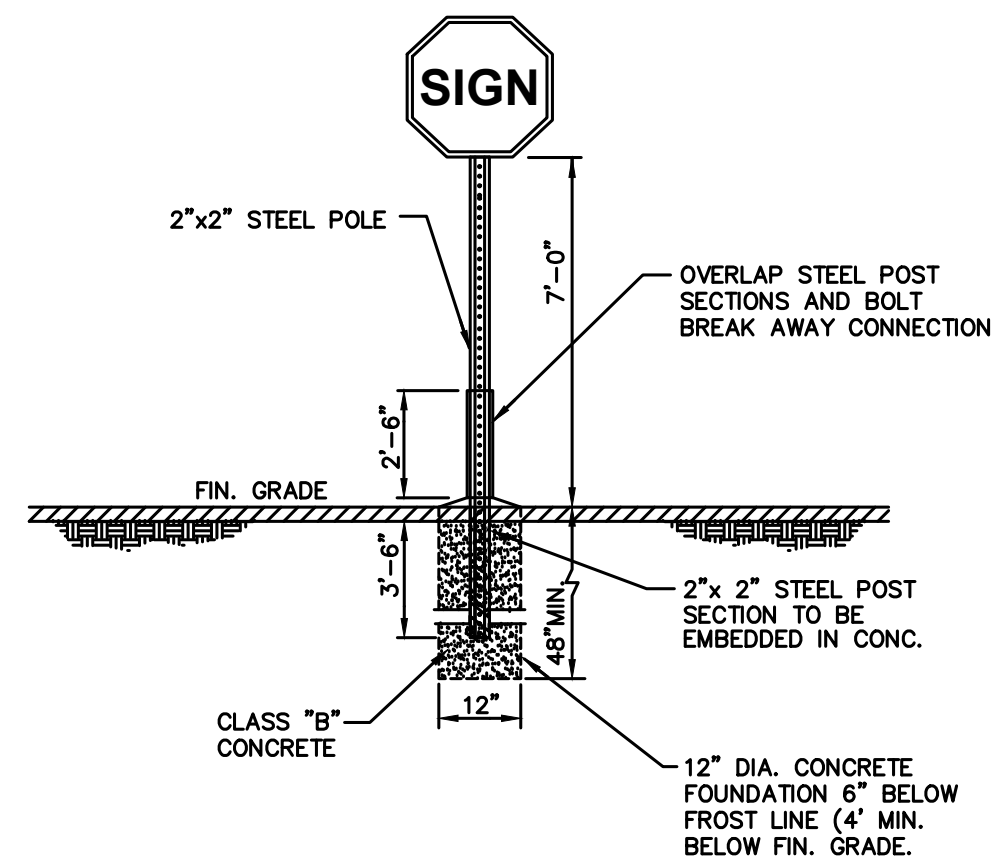
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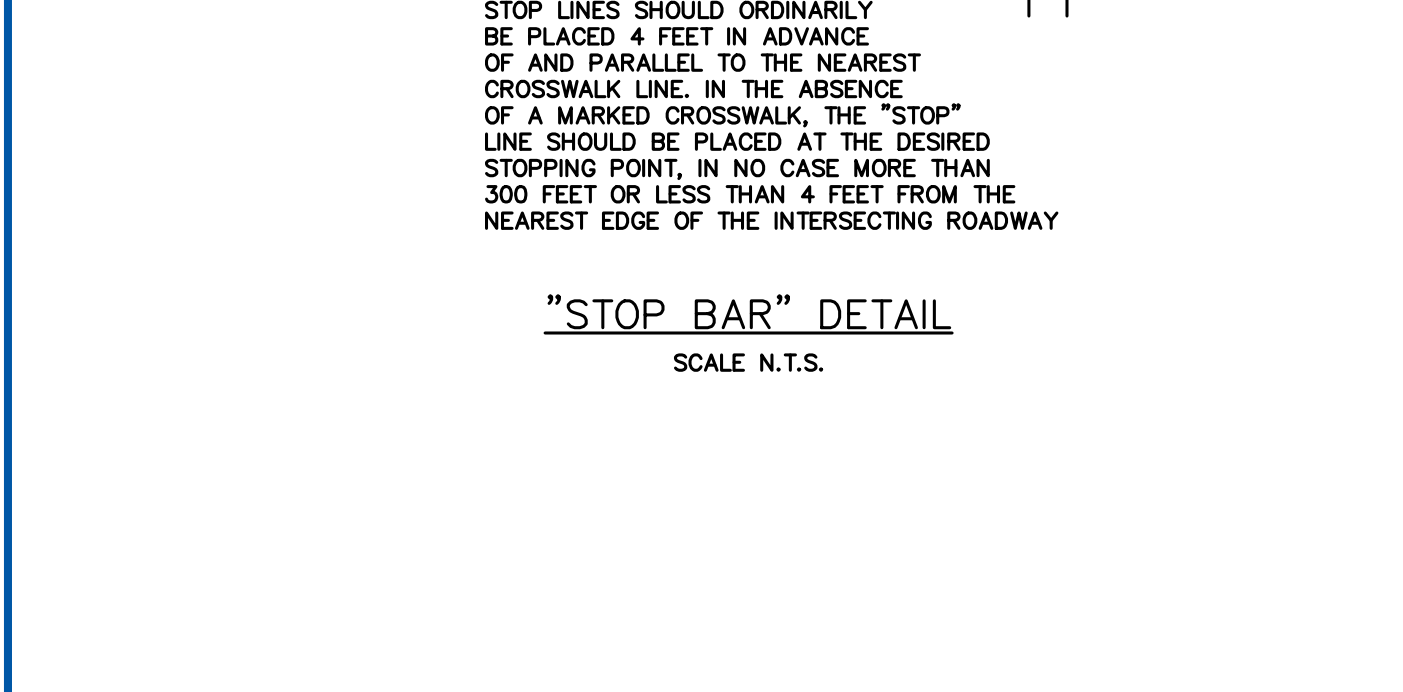
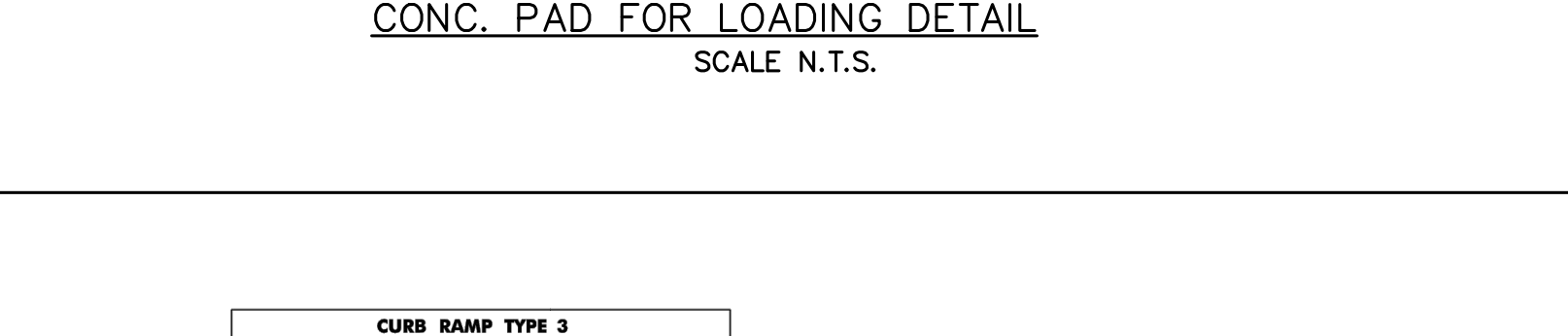
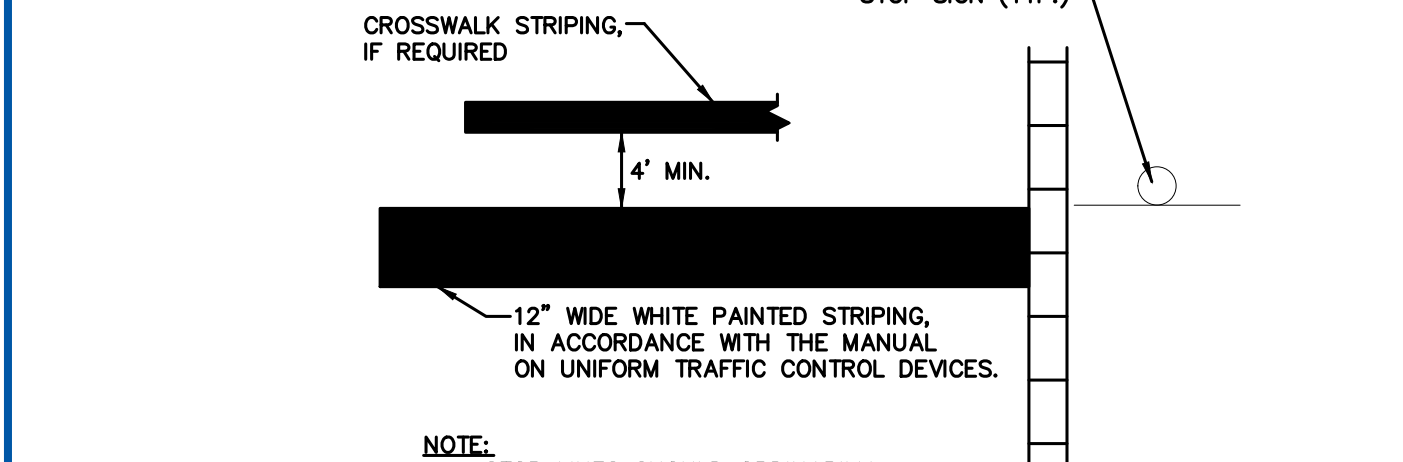
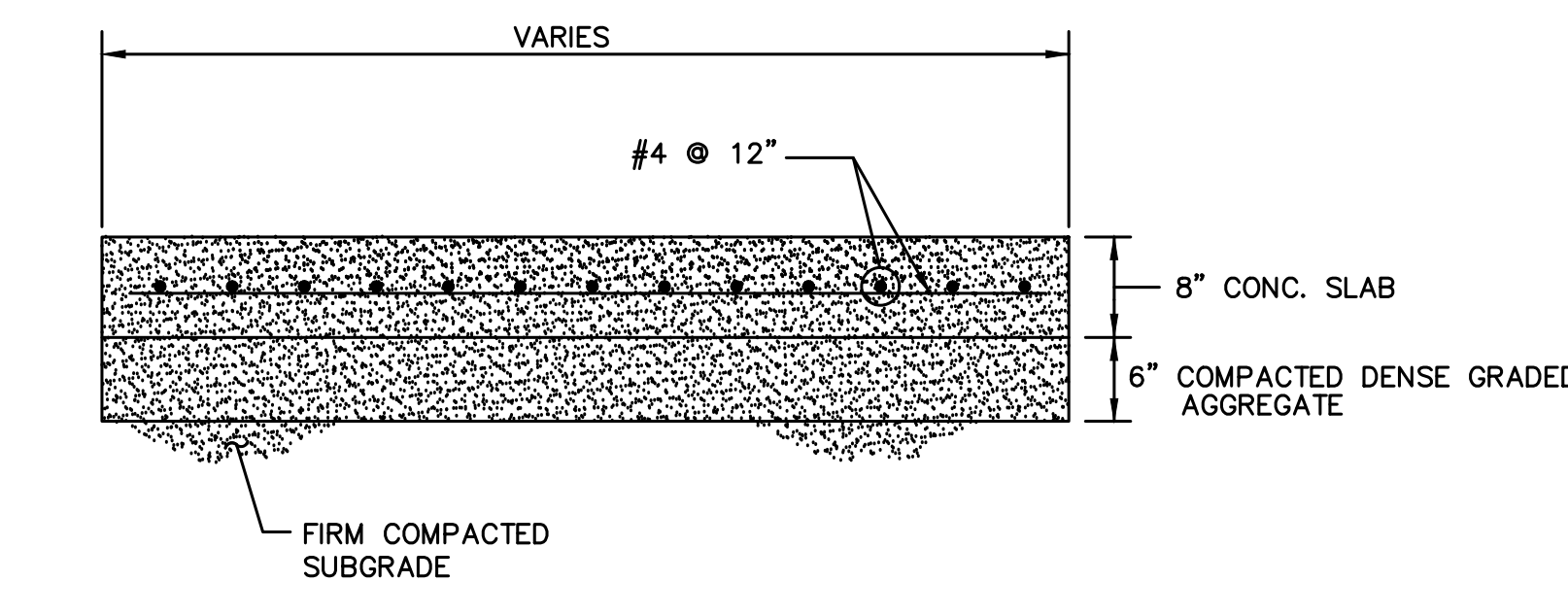
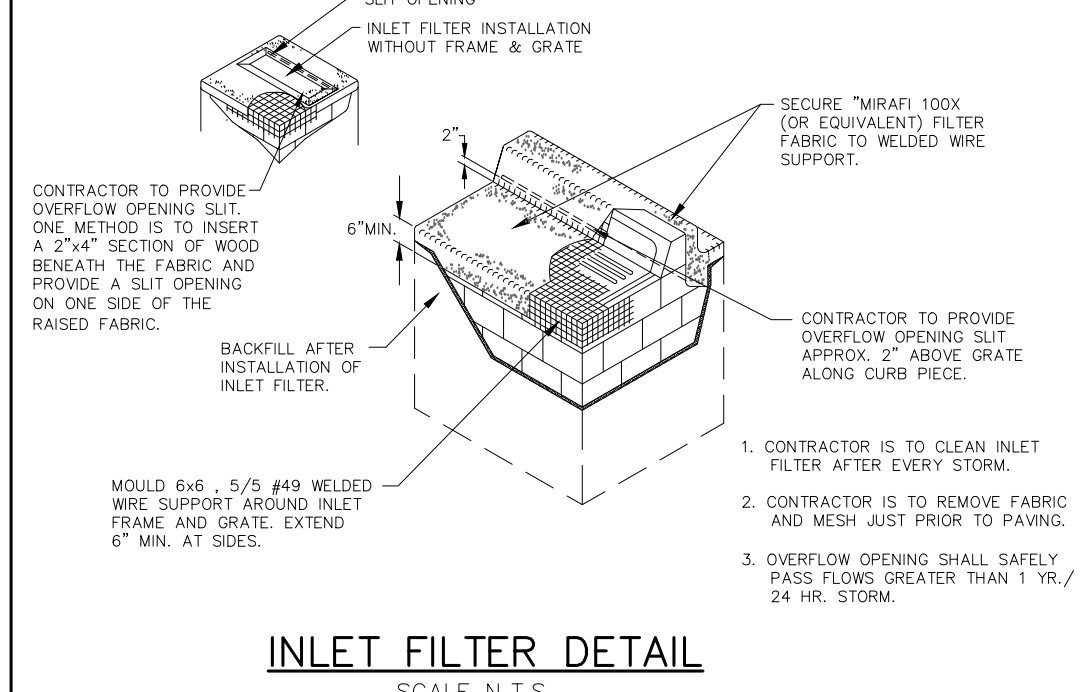
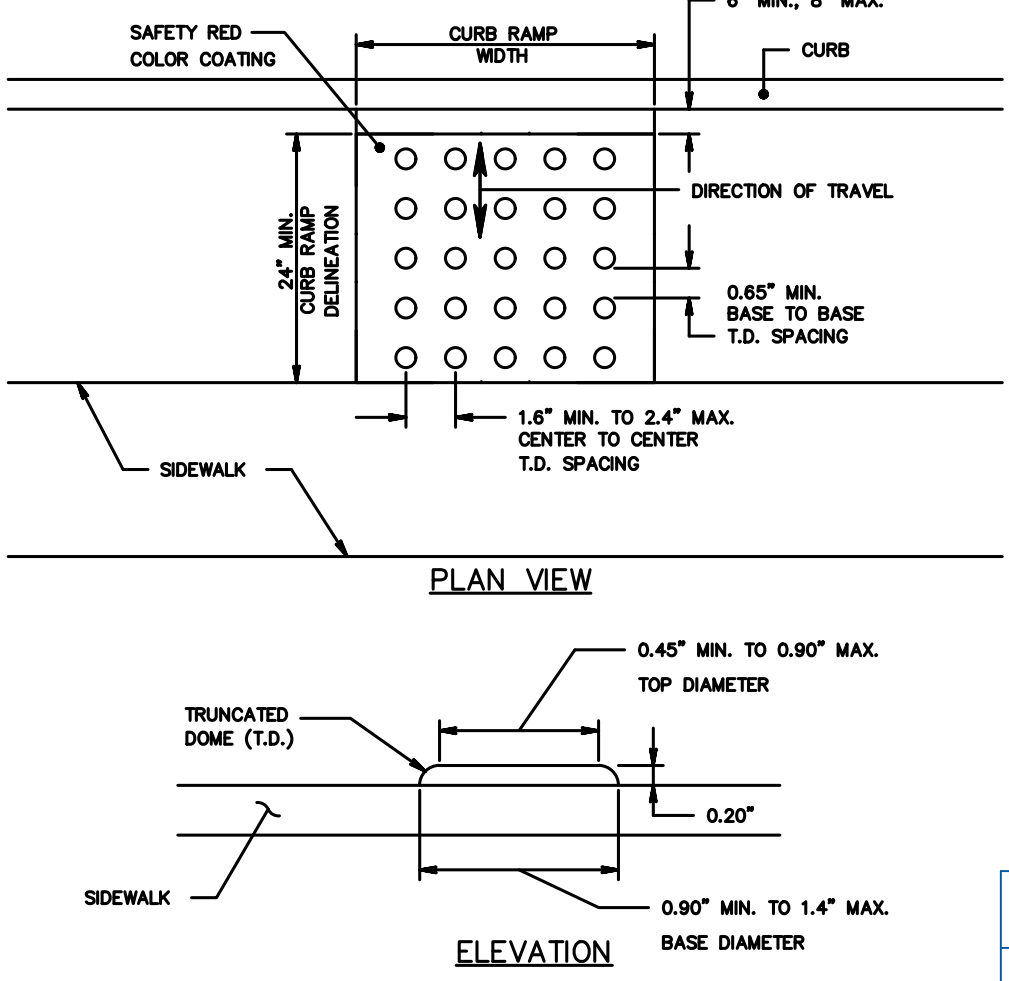
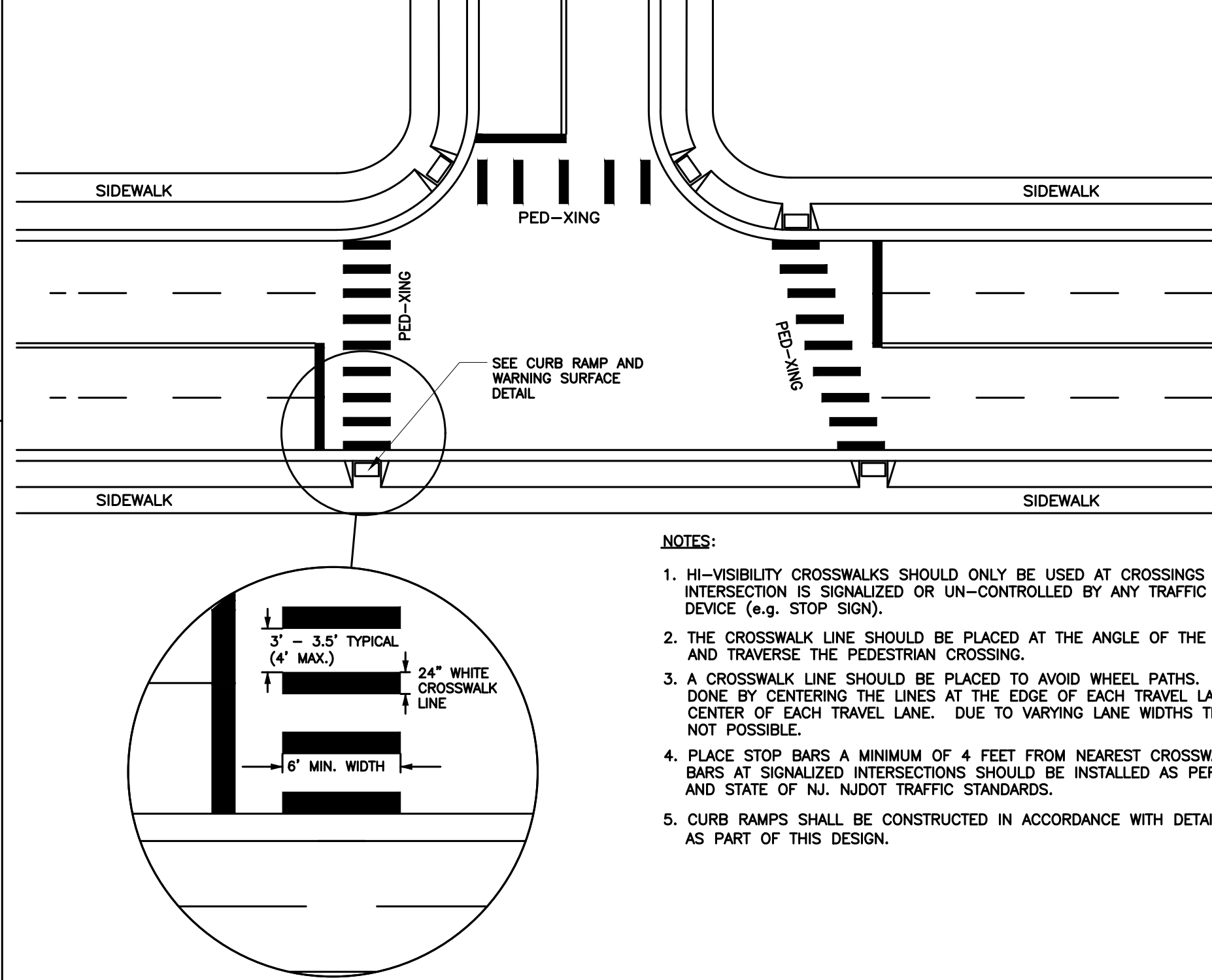
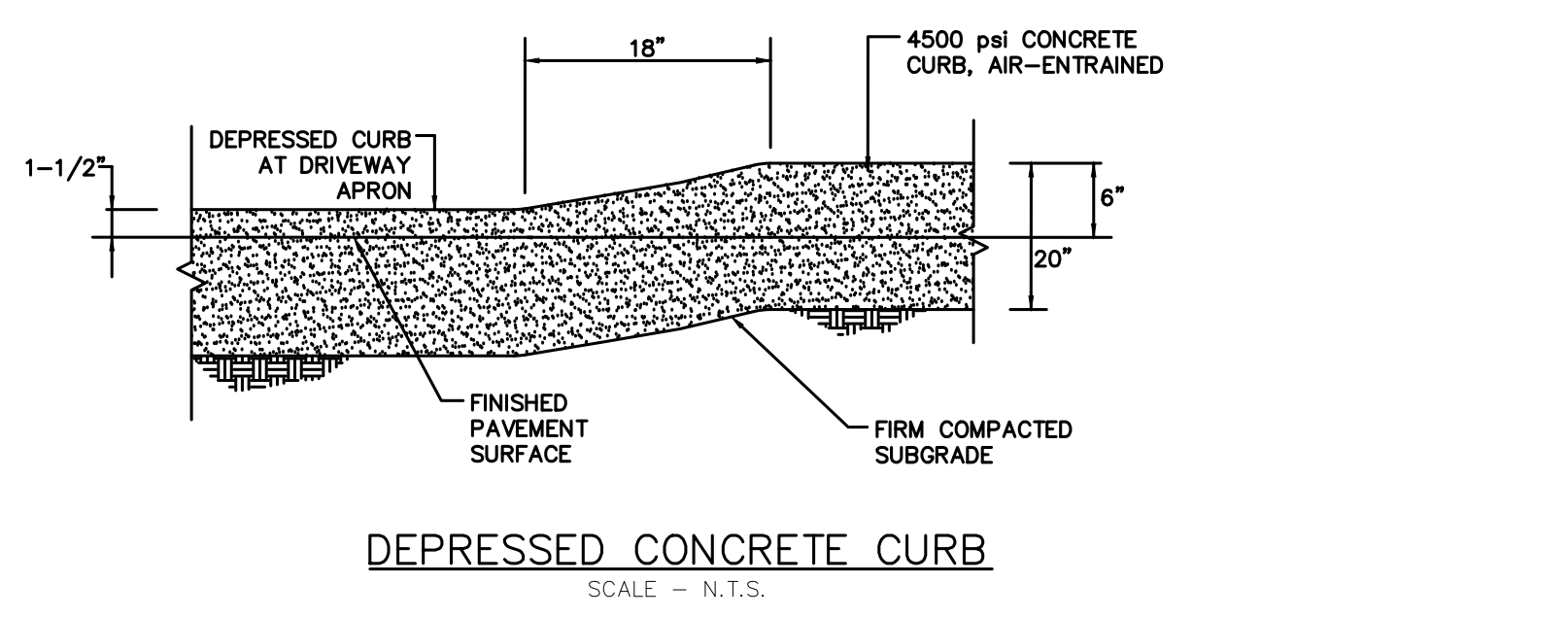
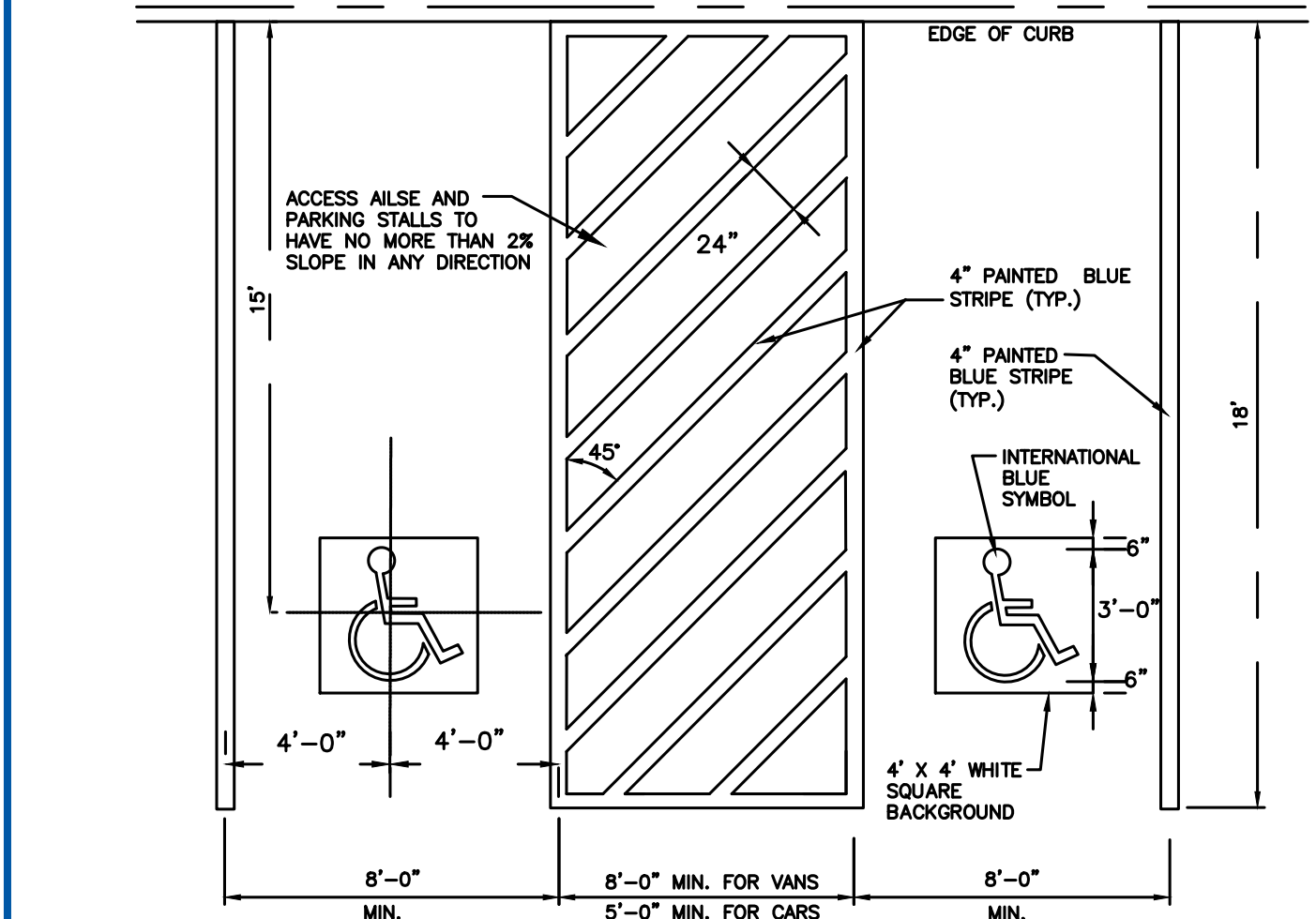
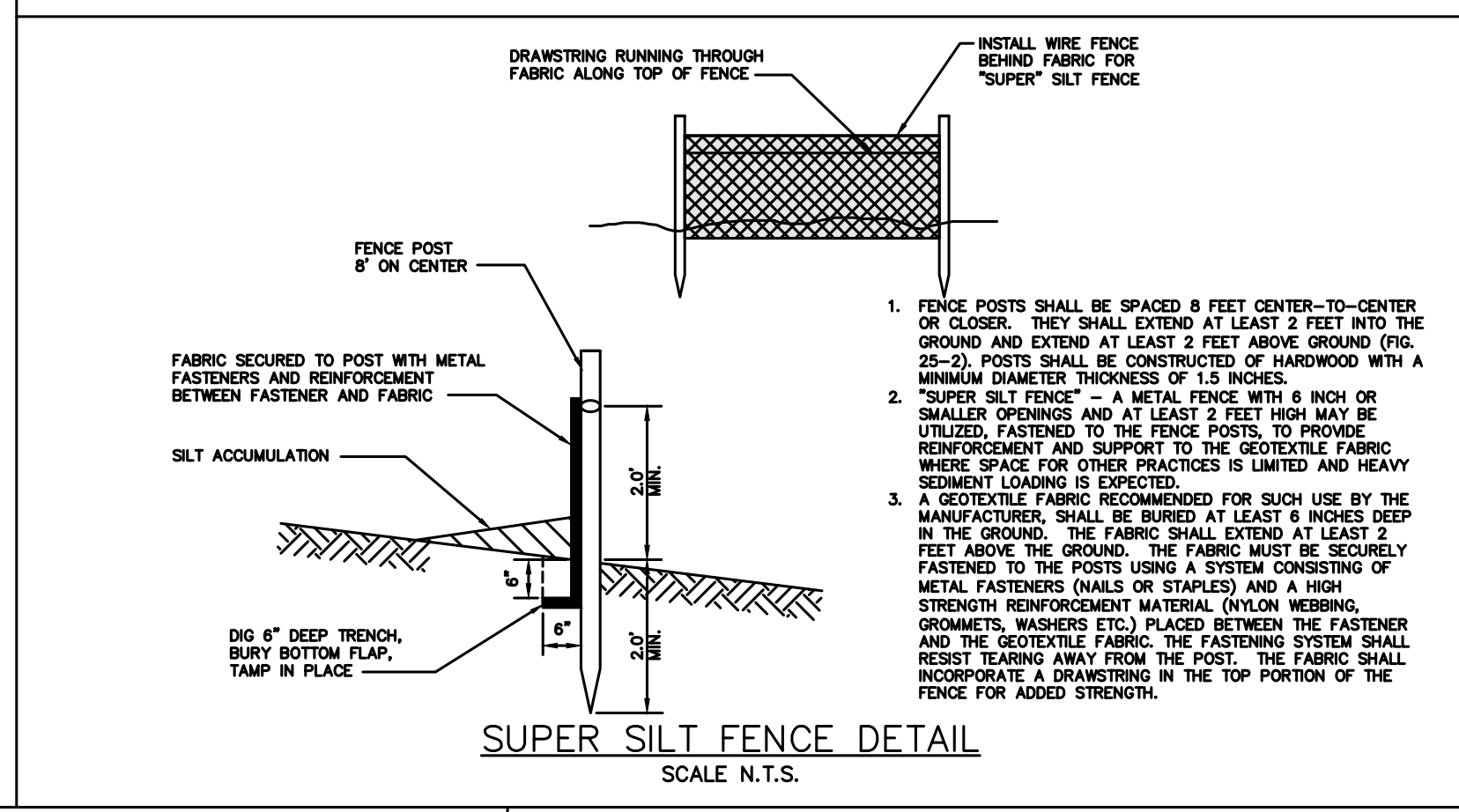
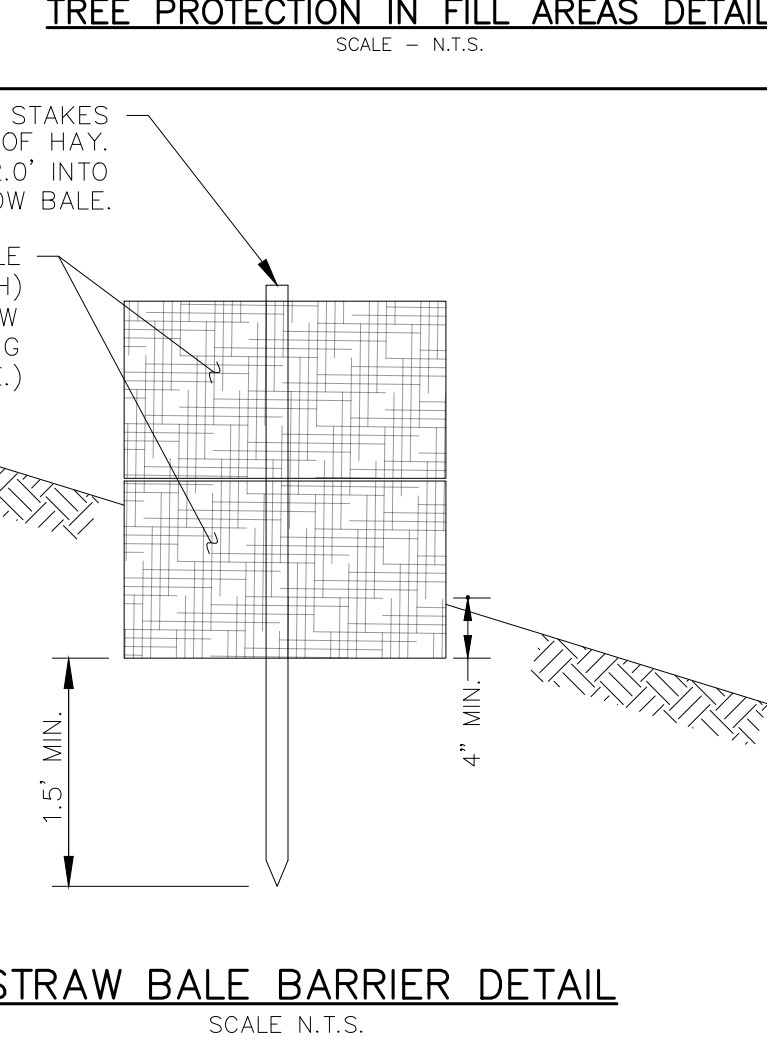
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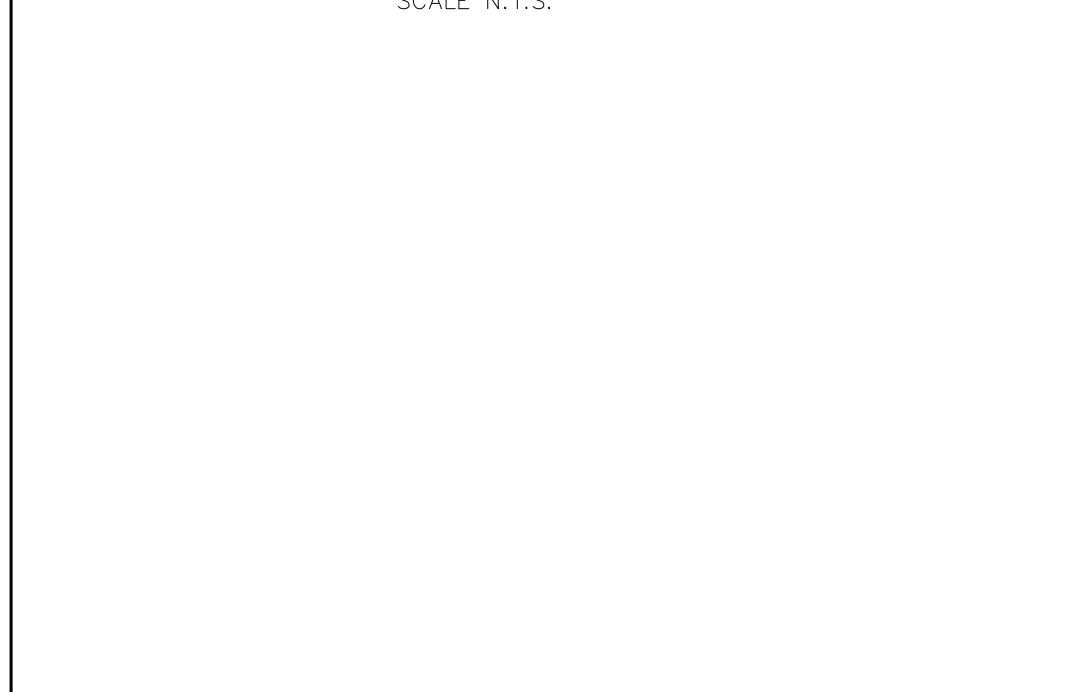
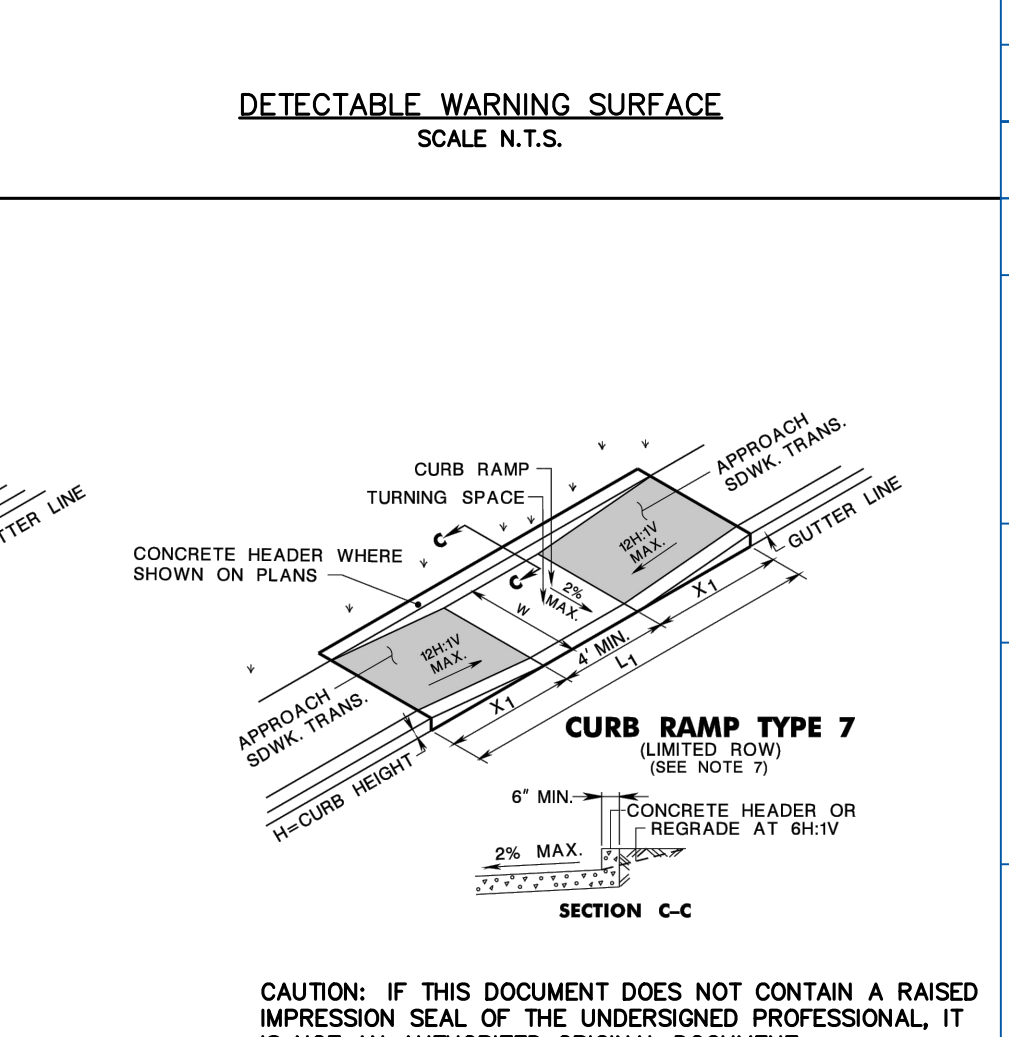
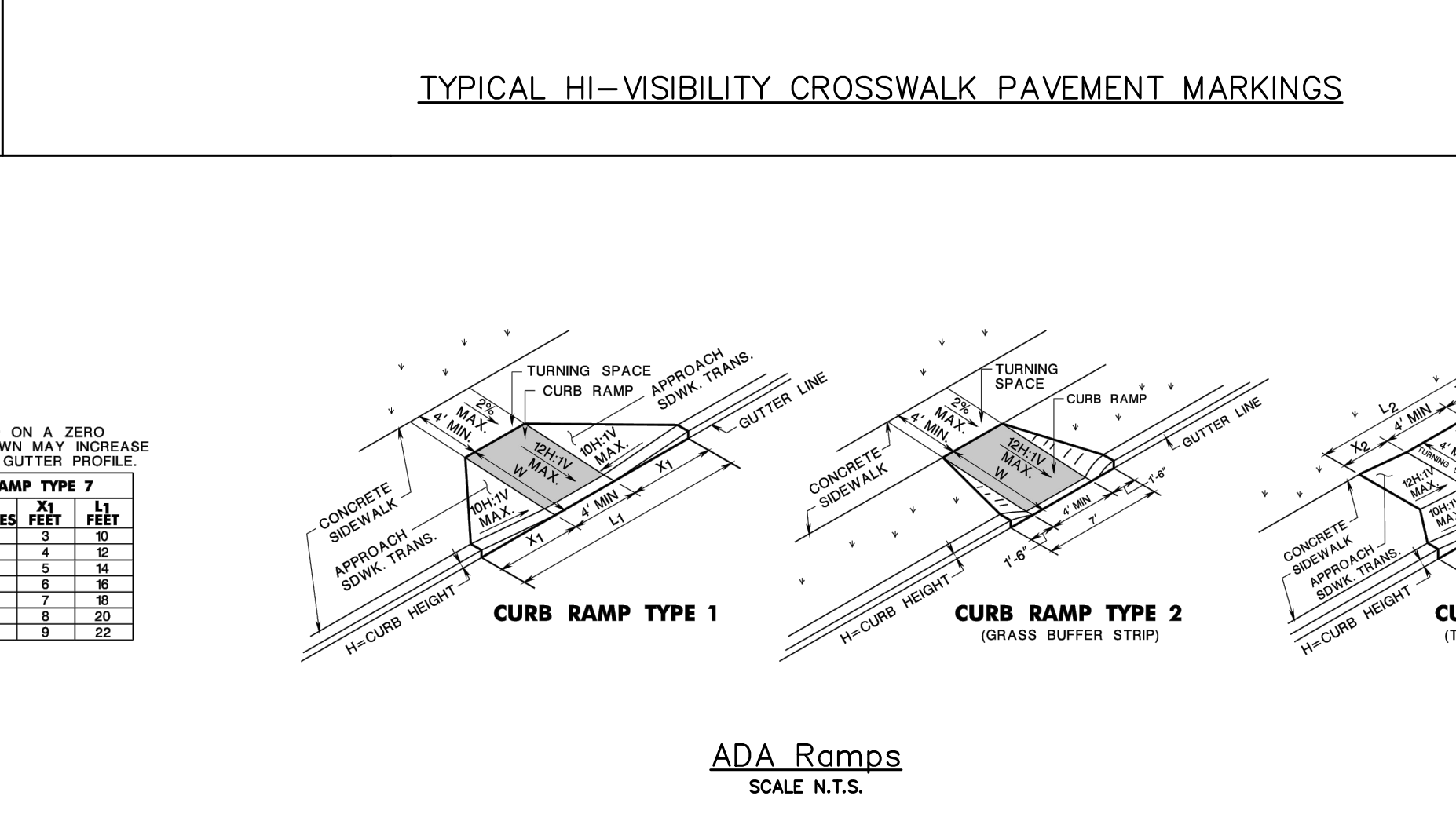
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PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED
0 TO 2%	100 FT.
2 TO 5%	100 FT.
5 TO 10%	100 FT.
10 TO 15%	100 FT.
15 TO 20%	100 FT.
20 TO 25%	100 FT.
25 TO 30%	100 FT.
30 TO 35%	100 FT.
35 TO 40%	100 FT.
40 TO 45%	100 FT.
45 TO 50%	100 FT.
50 TO 55%	100 FT.
55 TO 60%	100 FT.
60 TO 65%	100 FT.
65 TO 70%	100 FT.
70 TO 75%	100 FT.
75 TO 80%	100 FT.
80 TO 85%	100 FT.
85 TO 90%	100 FT.
90 TO 95%	100 FT.
95 TO 100%	100 FT.



PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED
0 TO 2%	100 FT.
2 TO 5%	100 FT.
5 TO 10%	100 FT.
10 TO 15%	100 FT.
15 TO 20%	100 FT.
20 TO 25%	100 FT.
25 TO 30%	100 FT.
30 TO 35%	100 FT.
35 TO 40%	100 FT.
40 TO 45%	100 FT.
45 TO 50%	100 FT.
50 TO 55%	100 FT.
55 TO 60%	100 FT.
60 TO 65%	100 FT.
65 TO 70%	100 FT.
70 TO 75%	100 FT.
75 TO 80%	100 FT.
80 TO 85%	100 FT.
85 TO 90%	100 FT.
90 TO 95%	100 FT.
95 TO 100%	100 FT.



REVISION	DESCRIPTION	DATE	BY
4	REVISED PER SETTLEMENT PLAN	10/13/2023	JMP
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	05/20/2022	JMP

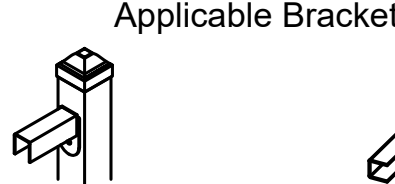
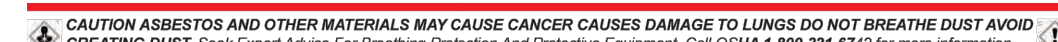
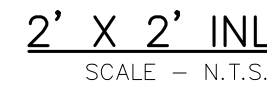
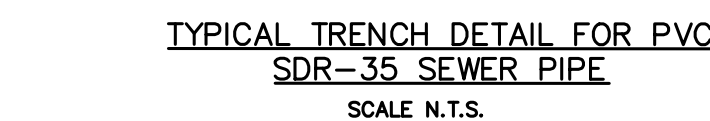
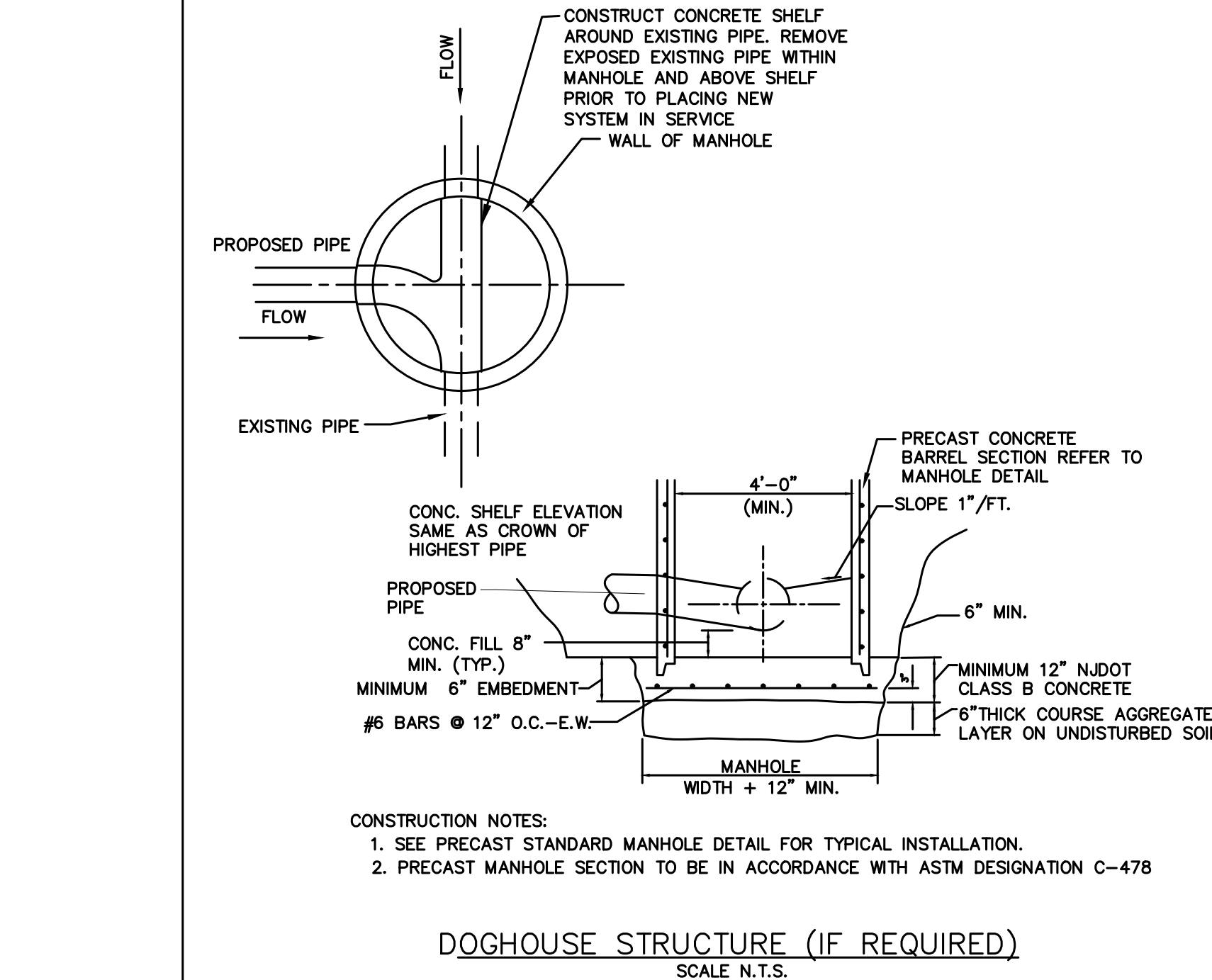
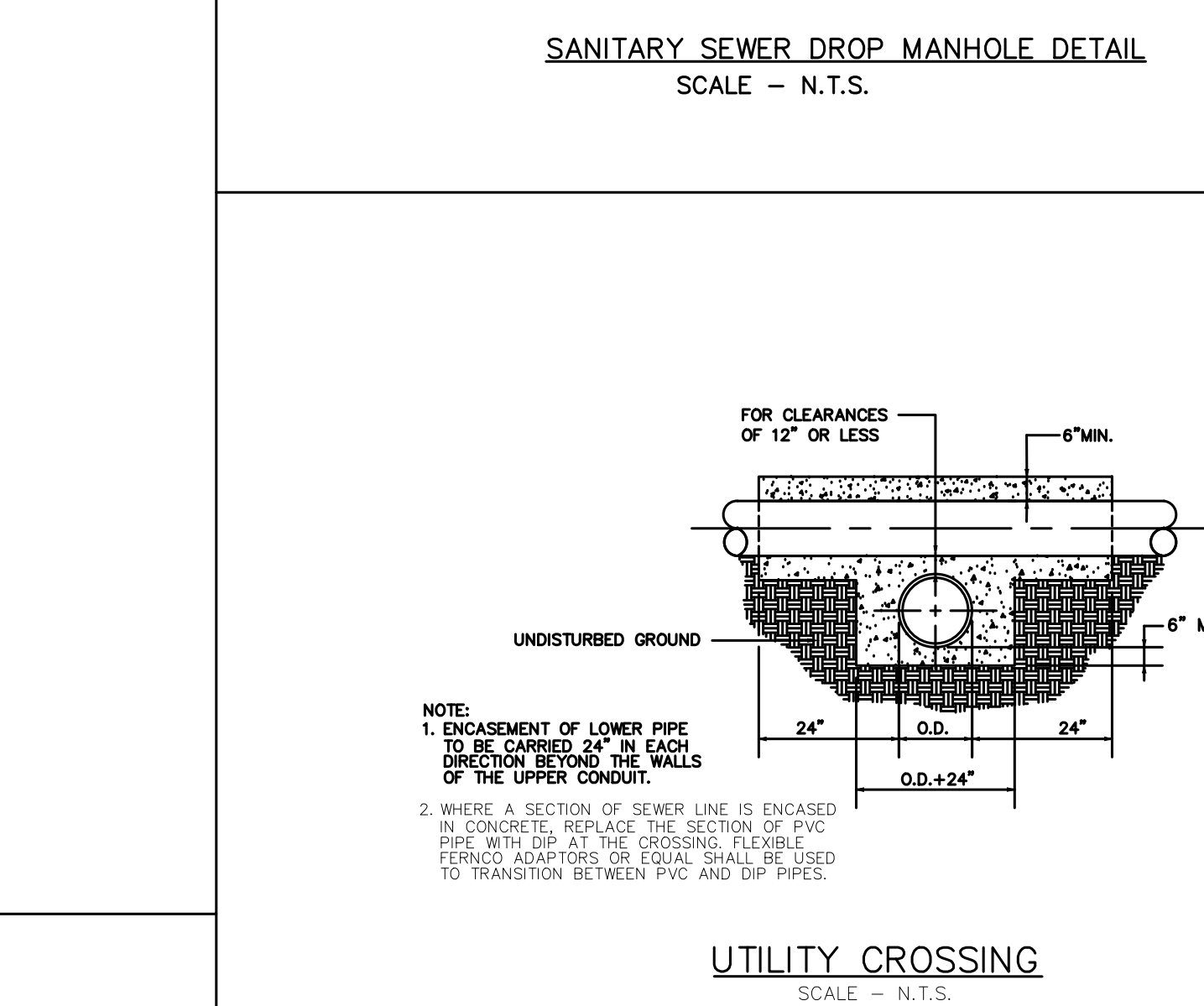
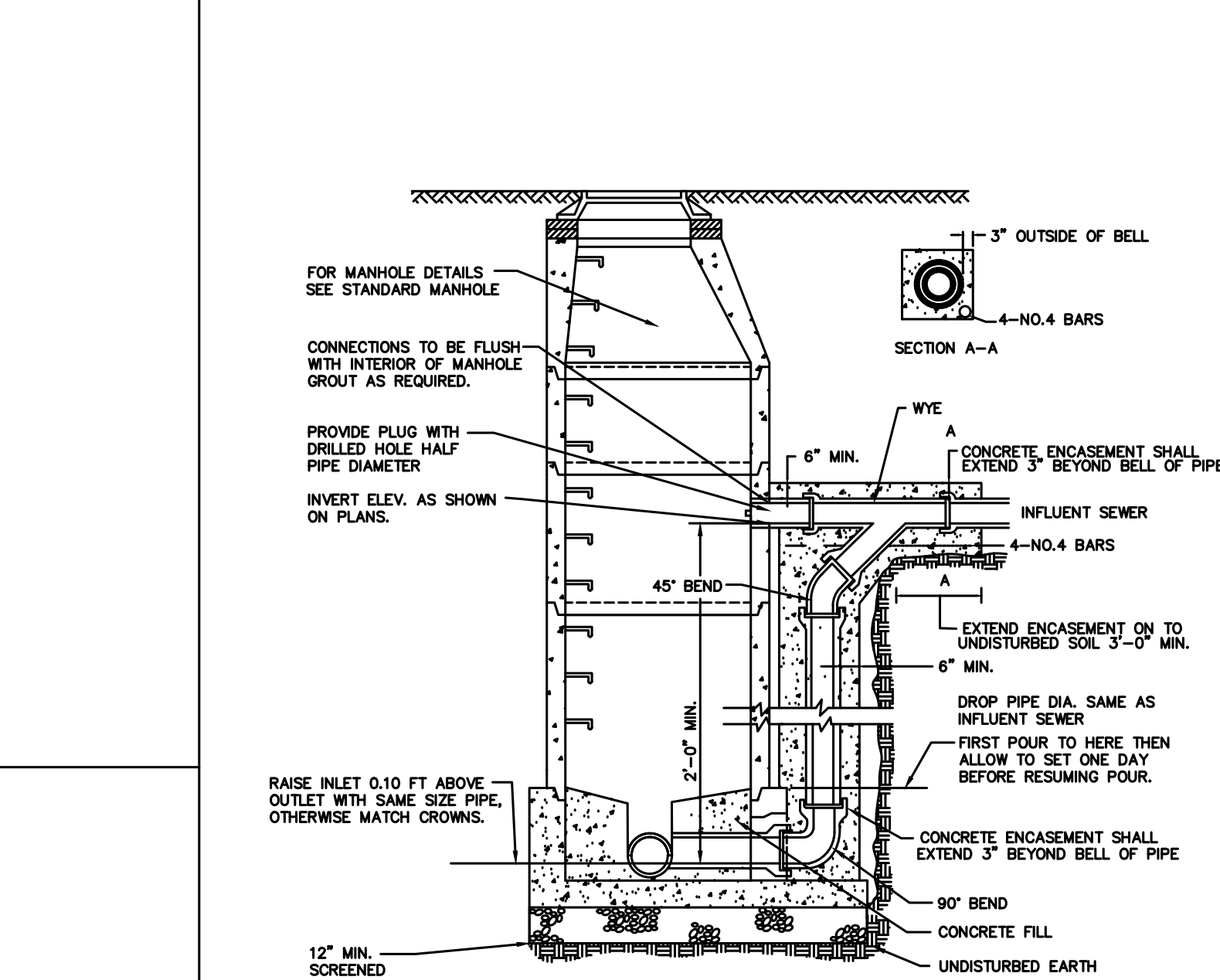
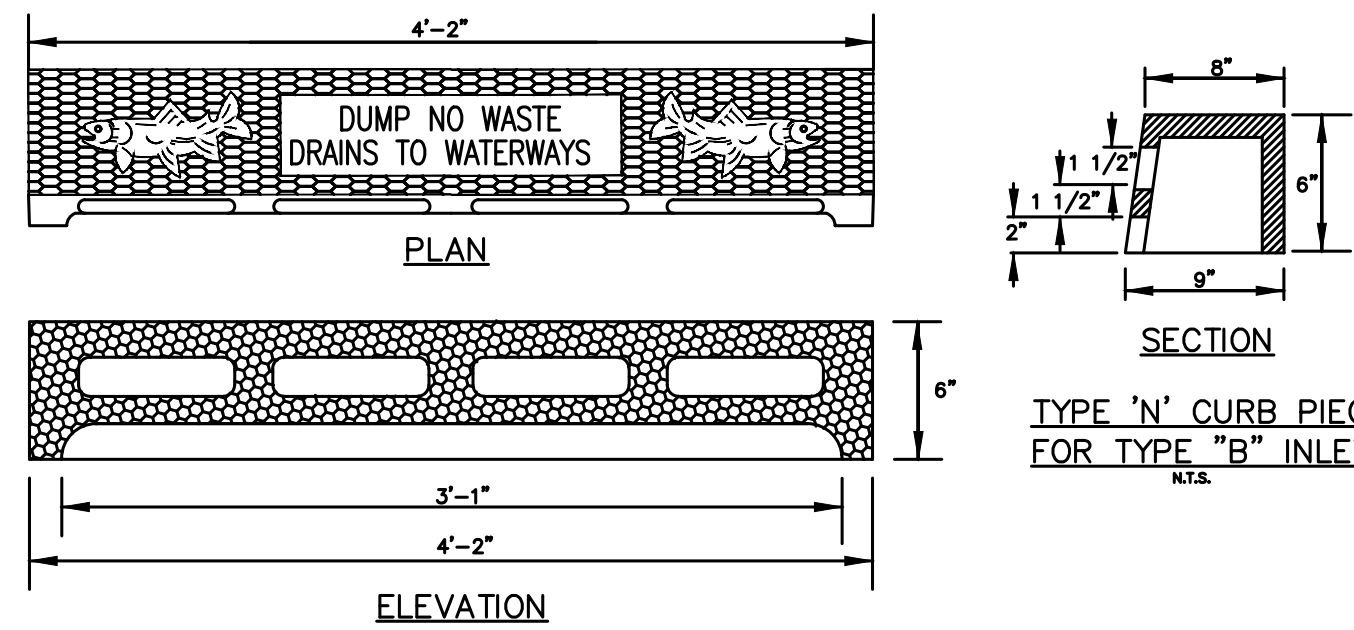
PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

SETTLEMENT PLAN CONSTRUCTION DETAILS

PETRY ENGINEERING, LLC
DIVISION OF CONCRETE & FIBER REINFORCED POLYMER (CFRP) PRODUCTS
1155 PLEASANT VALLEY WAY, SUITE 100
WEST ORANGE, NJ 07092-3204
TEL: 973.267.0004 FAX: 973.267.0005

Designer: JMP
Draftsman: JMF
Checked By: JMP
Project No.: 19-265
Scale: N.T.S.
Sheet: SP-19

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



4	REVISED PER SETTLEMENT PLAN	10/13/2023	JMP
3	ELIMINATION OF PHASE IV	01/08/2023	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

SETTLEMENT PLAN CONSTRUCTION DETAILS



PETRY

ENGINEERING, LLC

DIVISION OF CONSTRUCTION & LANDSCAPE ARCHITECTURE
 185 HUNTER DRIVE • HUNTERDON, NJ 08832
 TEL: 908-387-7096 FAX: 908-387-7034



Designer: JMP

Draftsman: JMF

Checked By: JMP

Project No.: 19-265

Scale: N.T.S.

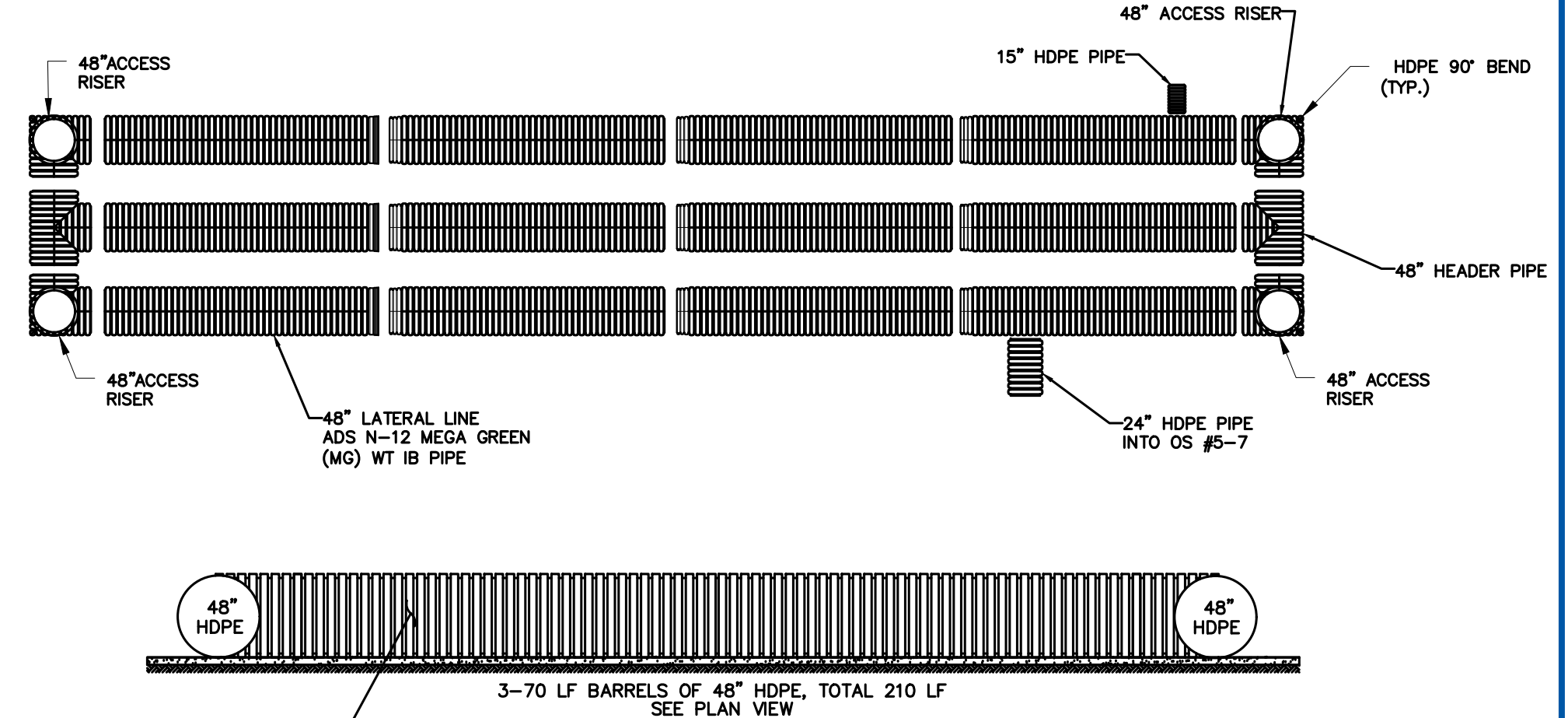
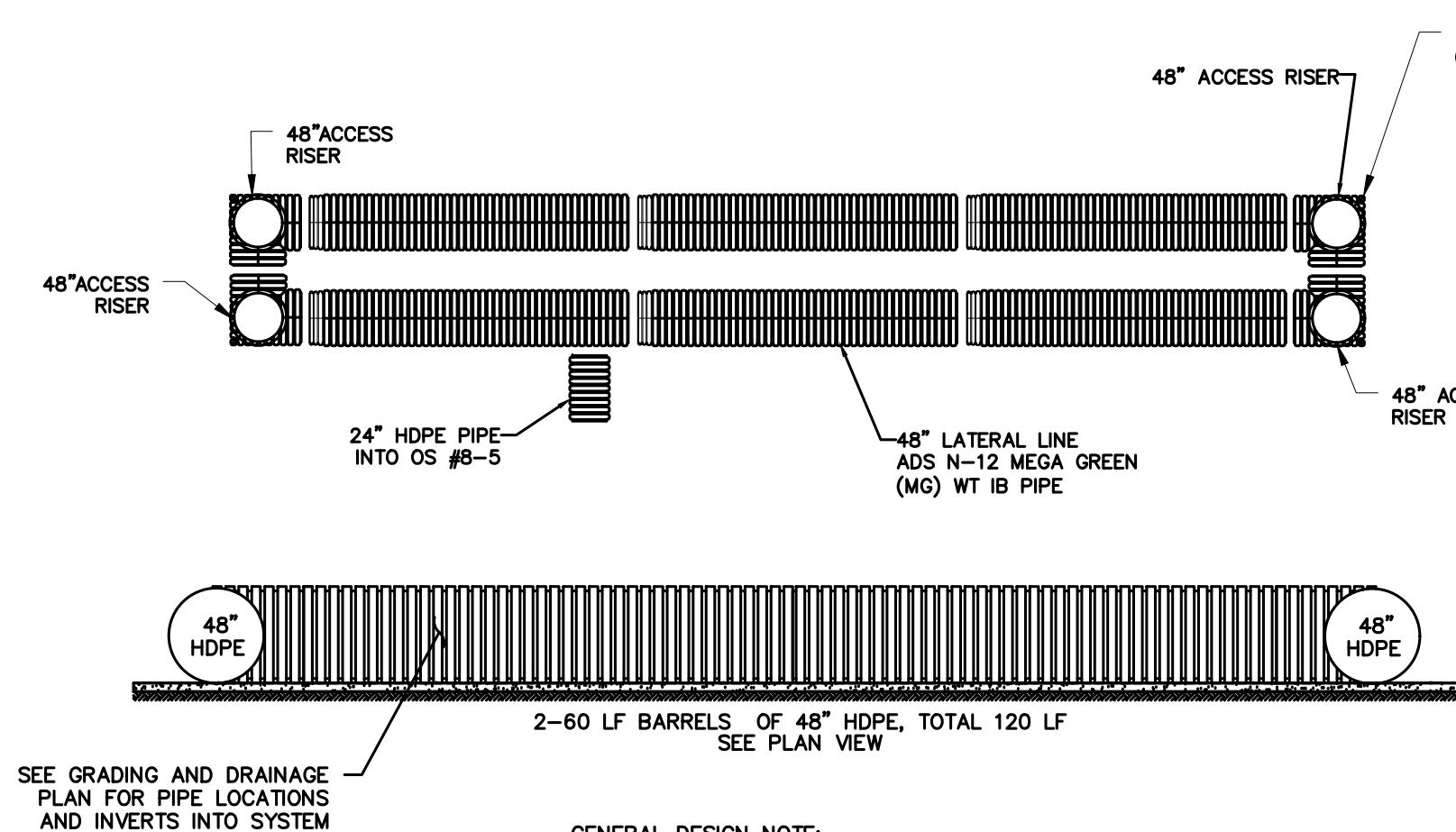
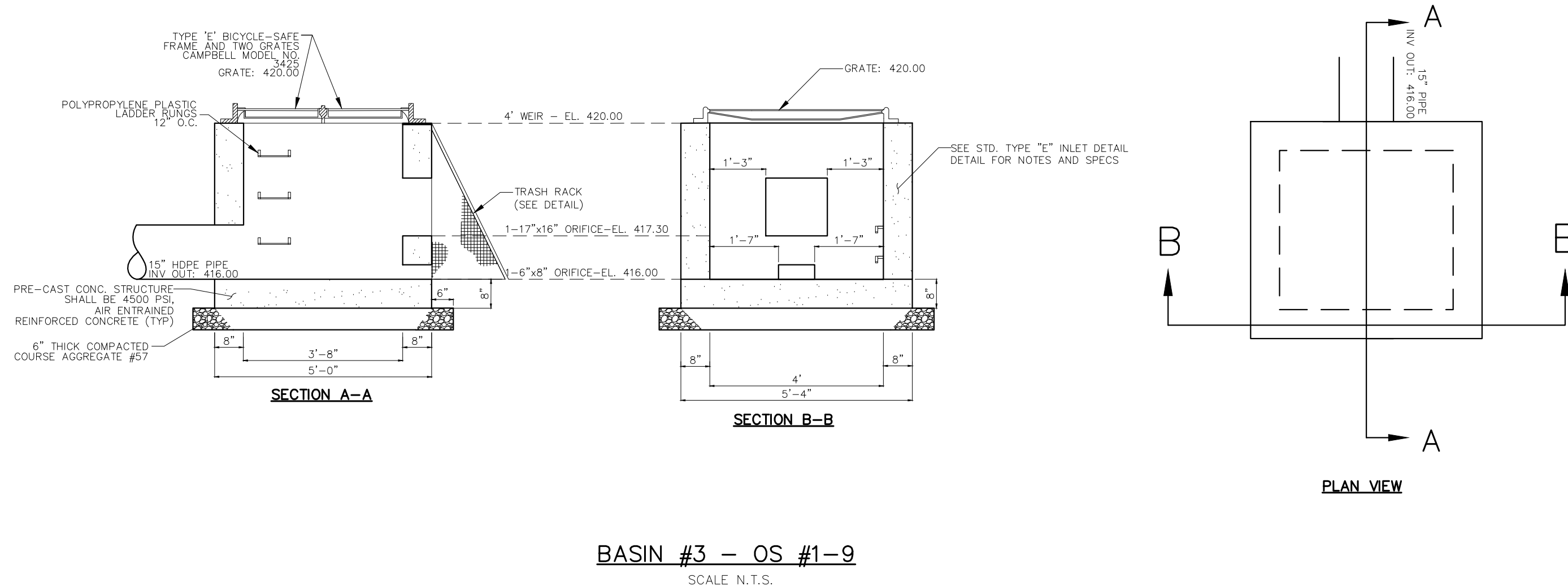
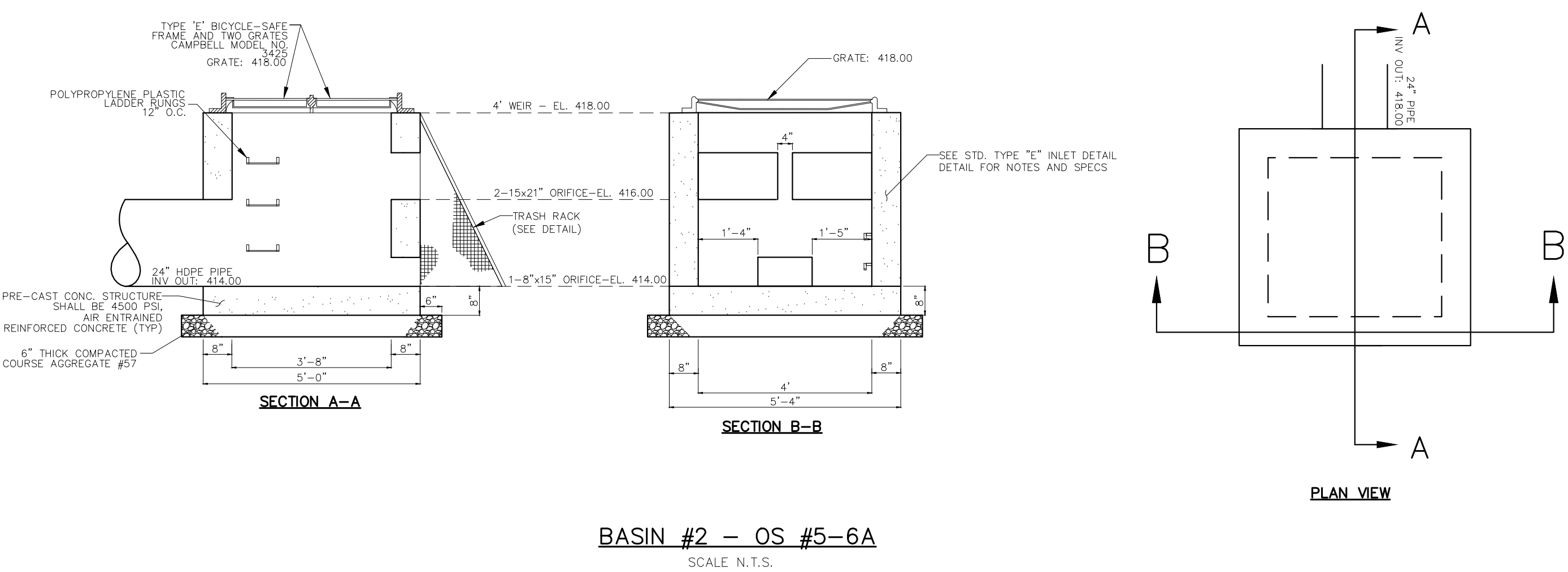
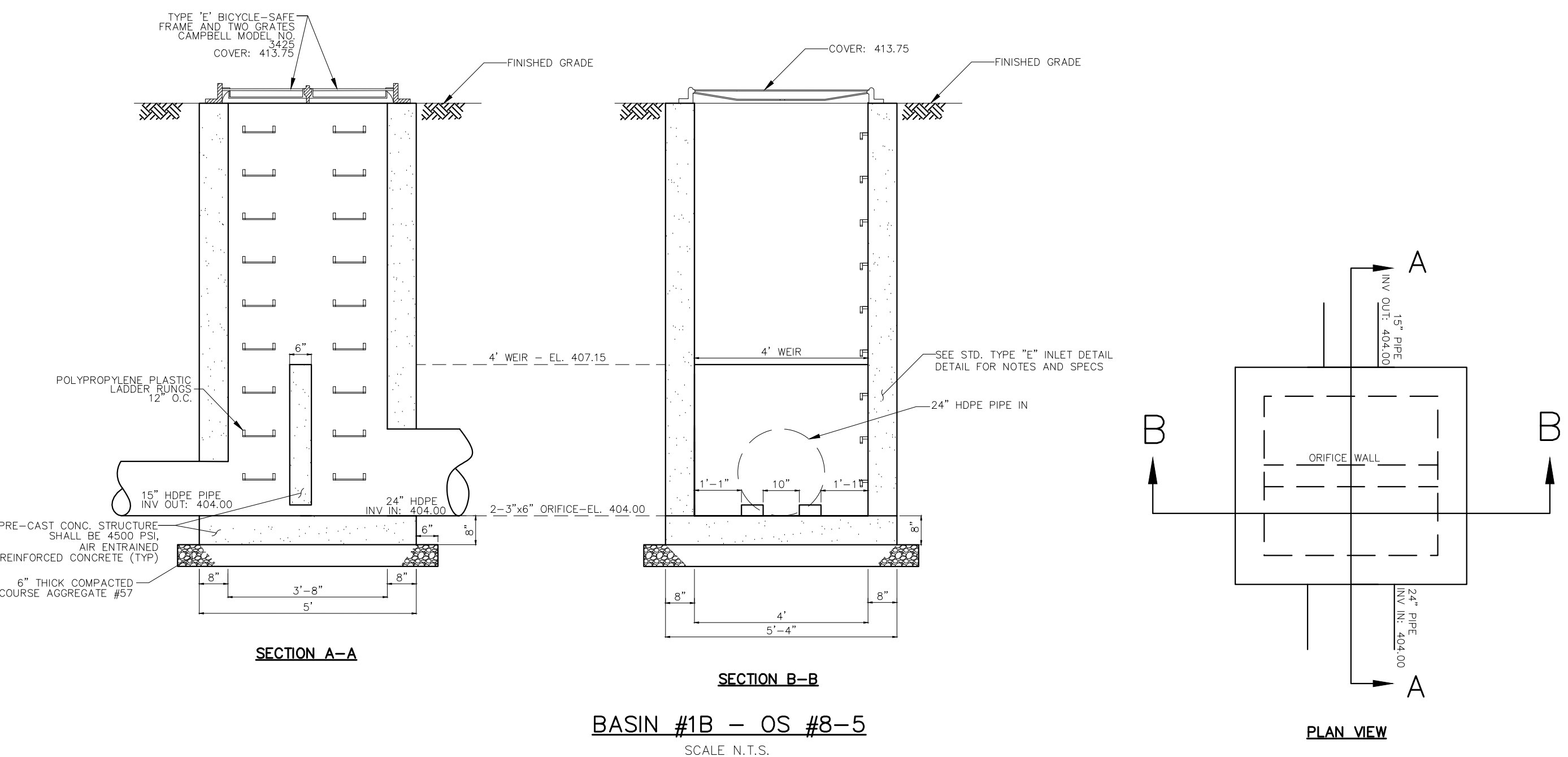
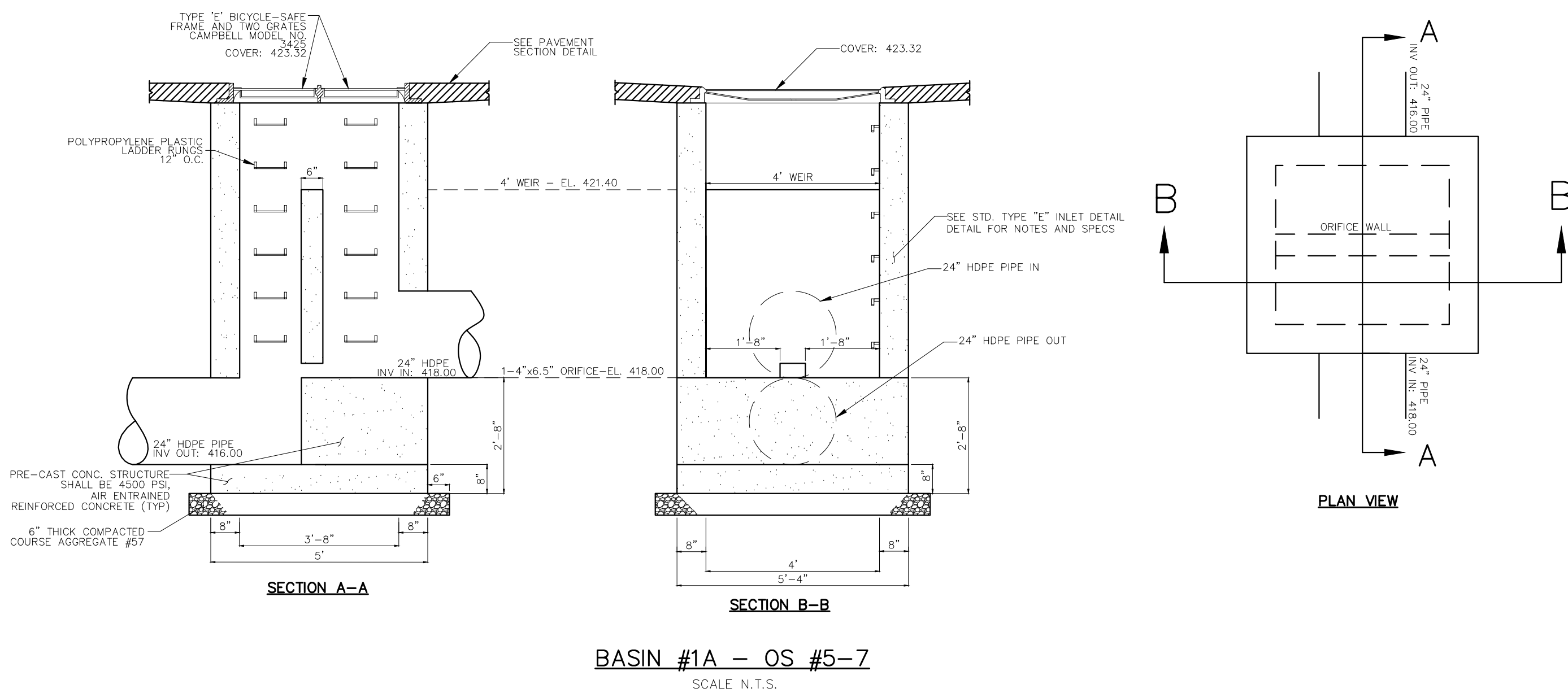
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J. MICHAEL PETRY-PE, PP, RA

NU PROFESSIONAL ENGINEER Lic. No. 36662

DATED 10/20/2023

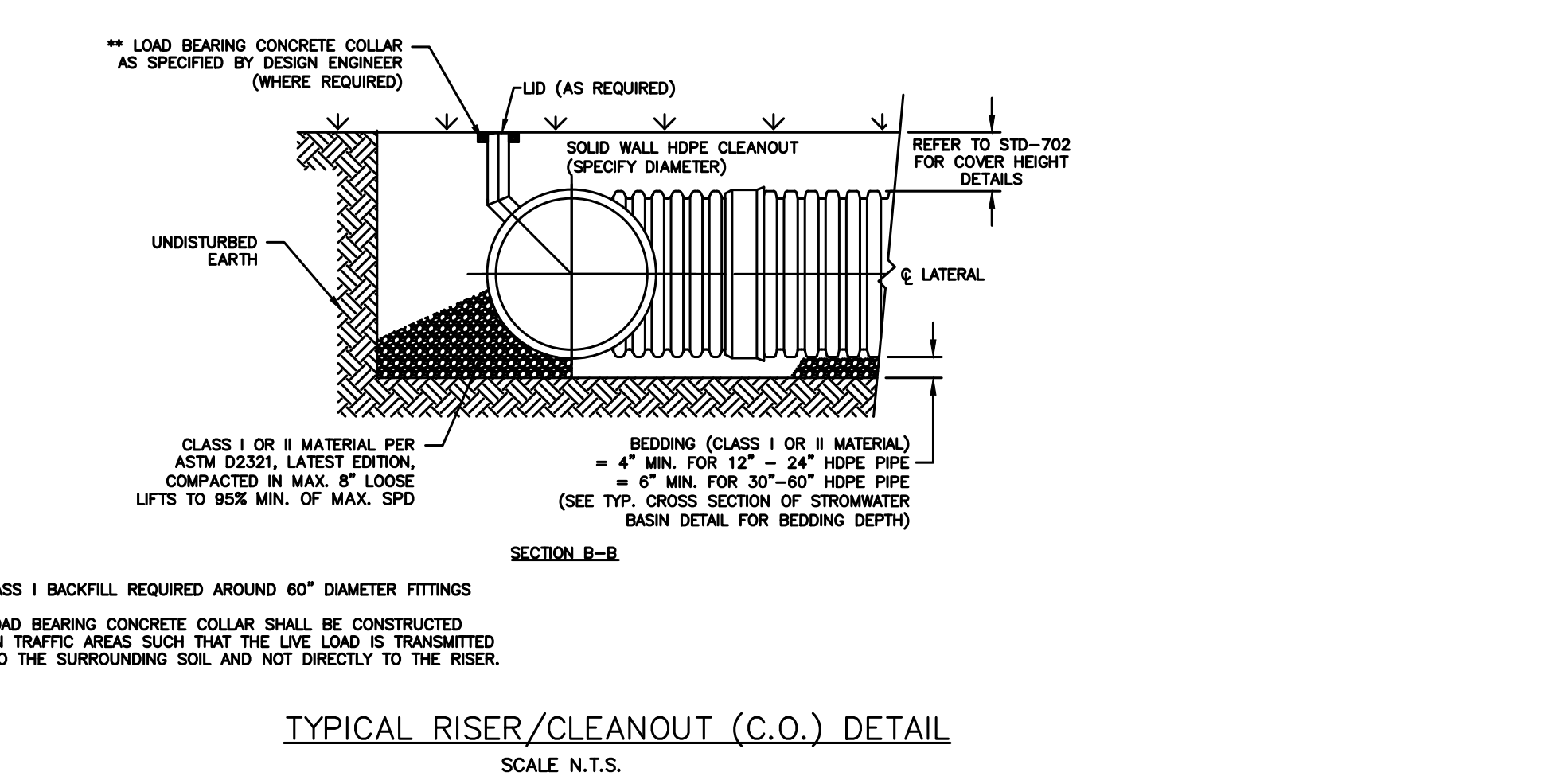
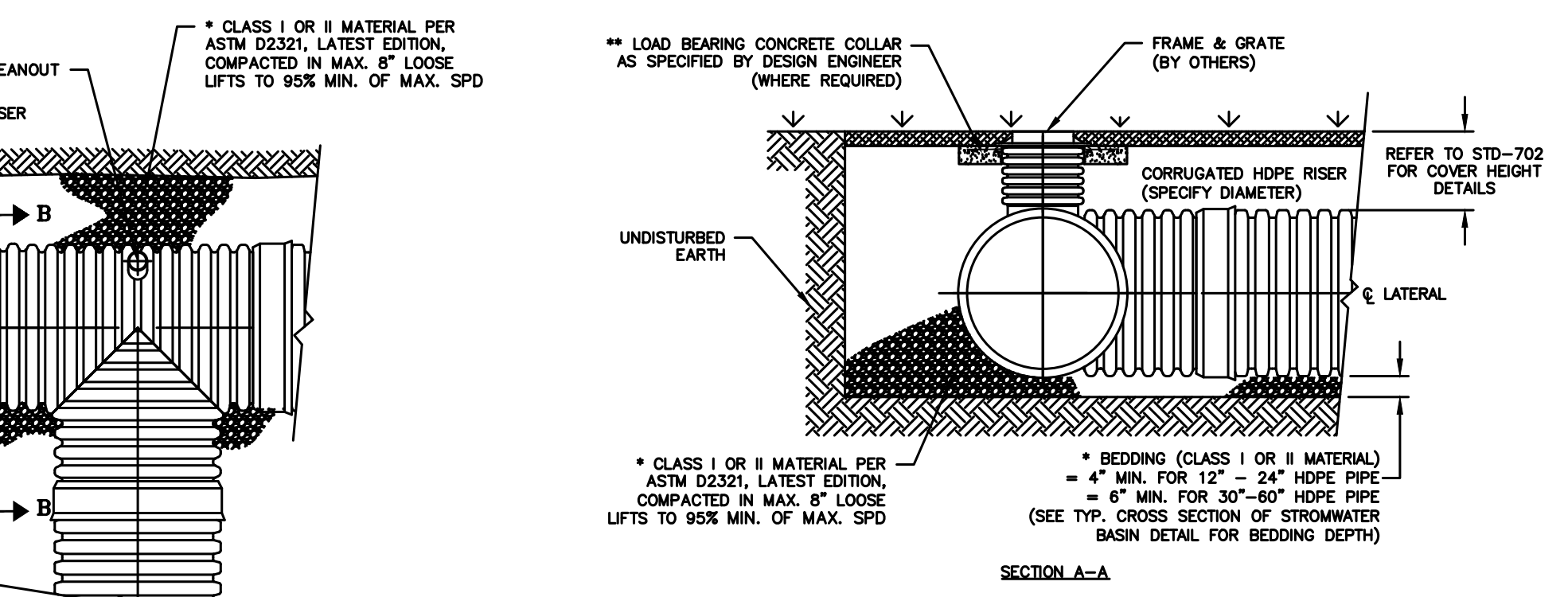
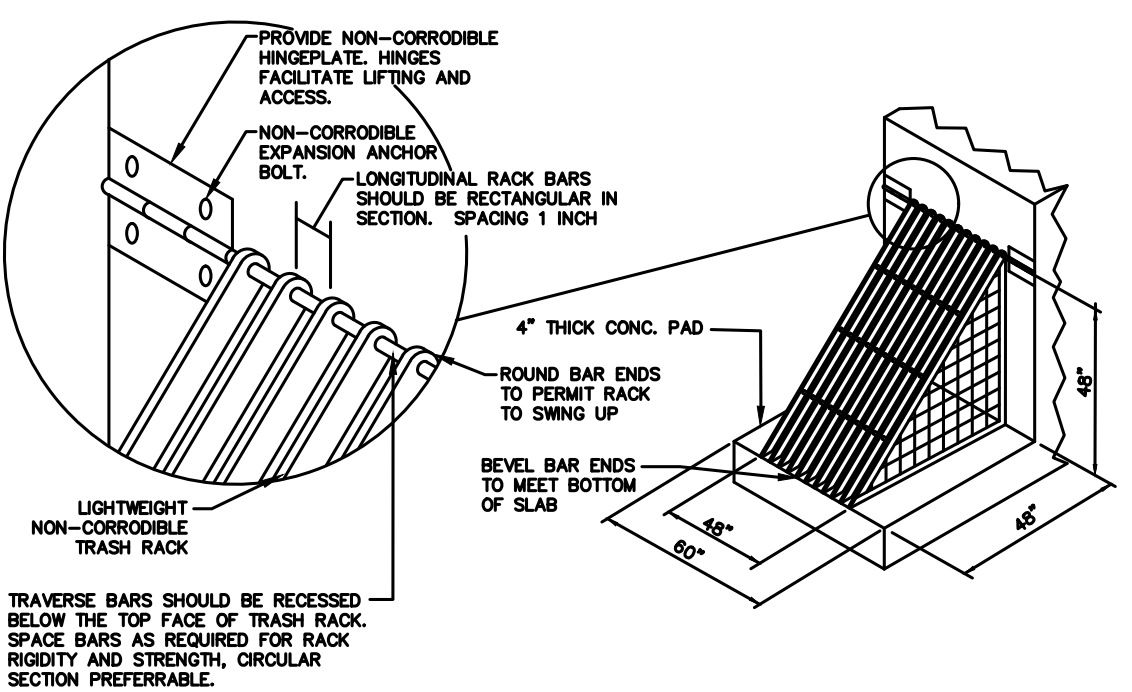
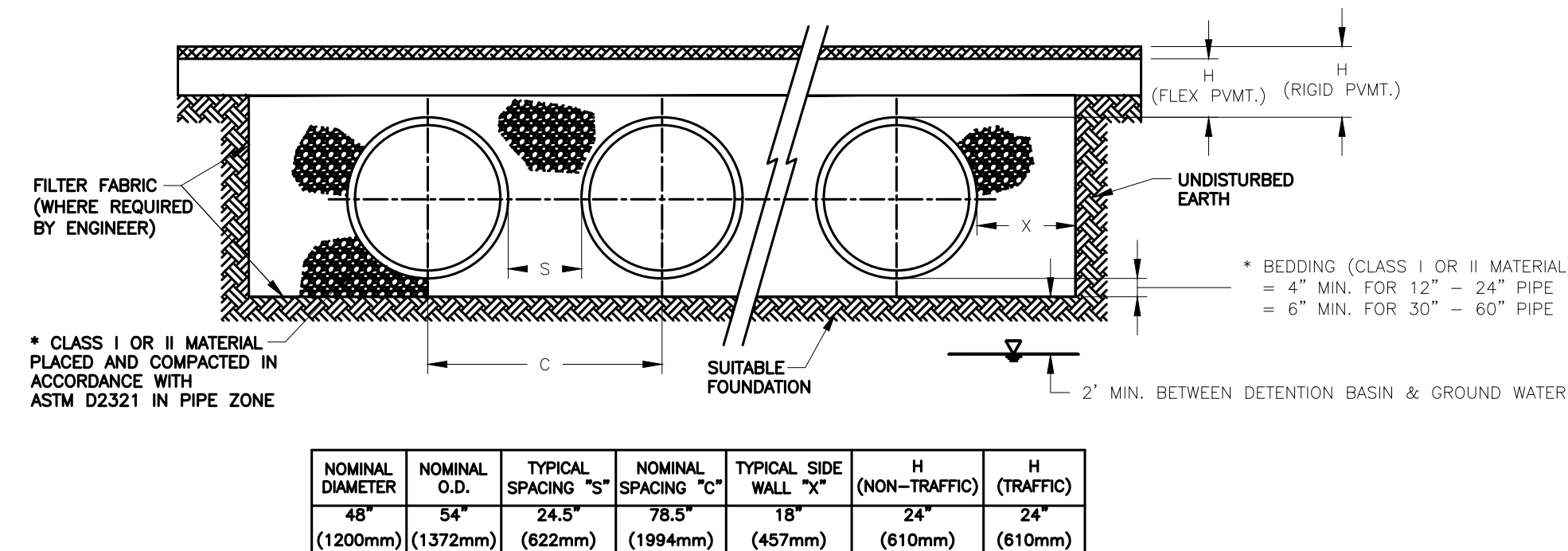
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GENERAL DESIGN NOTE:
ALL UNDERGROUND DETENTION STRUCTURES SHALL MEET AT A MINIMUM H20516 LOADING. THE MANUFACTURER SHALL CERTIFY THAT THE MINIMUM DESIGN CRITERIA HAS BEEN MET, AND SUBMIT SHOP DRAWINGS FOR REVIEW TO THE ENGINEER AND THE CITY OF WEST ORANGE PRIOR TO ANY INSTALLATION OF THE PROPOSED UNDERGROUND DETENTION SYSTEM STRUCTURES.

GENERAL DESIGN NOTE:
ALL UNDERGROUND DETENTION STRUCTURES SHALL MEET AT A MINIMUM H20516 LOADING. THE MANUFACTURER SHALL CERTIFY THAT THE MINIMUM DESIGN CRITERIA HAS BEEN MET, AND SUBMIT SHOP DRAWINGS FOR REVIEW TO THE ENGINEER AND THE CITY OF WEST ORANGE PRIOR TO ANY INSTALLATION OF THE PROPOSED UNDERGROUND DETENTION SYSTEM STRUCTURES.

- NOTES:**
1. ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2321 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
 2. ALL RETENTION AND DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST EDITION AND THE MANUFACTURER'S PUBLISHED INSTALLATION GUIDELINES.
 3. MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO THE BACKFILL MATERIAL, WHEN REQUIRED. SEE ASTM D2321.
 4. FILTER FABRIC: A GEOTEXTILE FABRIC MAY BE USED AS SPECIFIED BY THE ENGINEER TO PREVENT THE MIGRATION OF FINES FROM THE NATIVE SOIL INTO THE SELECT BACKFILL MATERIAL.
 5. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
 6. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4" - 24" (100mm-600mm), 8" (150mm) FOR 30" - 60" (750mm-1500mm).
 7. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 4' ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
 8. MINIMUM COVER: MINIMUM COVER OVER ALL RETENTION/DETENTION SYSTEMS IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION, FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12" UP TO 36" DIAMETER PIPE AND 24" OF COVER FOR 42" - 60" DIAMETER PIPE MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
 9. FOR INSTALLATION RECOMMENDATIONS, SEE 703 RETENTION-DETENTION SYSTEM (CROSS SECTION) AND 703 RETENTION-DETENTION SYSTEM (RISER AND CLEANOUTS).



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

4	REVISED PER SETTLEMENT PLAN	10/13/2023	JMP
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 SETTLEMENT PLAN CONSTRUCTION DETAILS PETRY ENGINEERING LLC CORPORATE OFFICE: 1155 PLEASANT VALLEY WAY, SUITE 200, WEST ORANGE, NJ 07063 TEL: 973.267.1000 FAX: 973.267.1001 J. MICHAEL PETRY-PE, PP, RA NJ PROFESSIONAL ENGINEER LIC. NO. 36962			
Designer: JMP	Drawn: JMF	Checked By: JMP	Project No.: 19-205
Scale: N.T.S.	Sheet:		
			SP-21

NOTES

- 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.
- INSTALLATION OF MODULAR BLOCK WALLS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS AND SPECIFICATIONS.
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- 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. ARRANGEMENT OF BLOCK, CAP STONE, AND CRUSHED STONE BASE AT WALL STEPS SHALL CONFORM TO MANUFACTURER'S STANDARD RECOMMENDATIONS.
- CUT GEOGRID REINFORCING AS REQUIRED TO ACCOMMODATE GUIDERAIL FOUNDATION CONCRETE. DO NOT OMIT FABRIC ENTIRELY AT GUIDERAIL FOUNDATION LOCATIONS.

GENERAL NOTES

BUILDING CODE

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF N.J.A.C. 5:23, "UNIFORM CONSTRUCTION CODE REGULATIONS", LATEST EDITION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THIS CODE, WITH THE SPECIFICATION, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION.

GENERAL

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING, SHORING, ETC.
- 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 DEPRESSIONS, FLOOR DRAINS, INSERTS, AND OTHER RELATED ITEMS.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CORRECTNESS OF DIMENSIONS OR QUANTITIES AND FOR THE FITTING TO OTHER WORK. WORK TO BE CONFIRMED AND CORRELATED AT THE SITE; FOR INFORMATION PERTAINING TO THE FABRICATION PROCEDURE OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; AND FOR THE COORDINATION OF STRUCTURAL WORK 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 SUBMISSIONS DOES NOT RELIEVE THE CONTRACTOR FROM THESE RESPONSIBILITIES.
- PROPOSED OPENINGS OR RECESSES IN THE STRUCTURE WHICH ARE NOT SHOWN IN THE STRUCTURAL DRAWINGS, EITHER DIRECTLY OR BY TYPICAL DETAIL, SHALL BE SUBMITTED FOR ACCEPTANCE.
- IN CASE OF CONTRADICTION BETWEEN THE DRAWINGS, THE SPECIFICATIONS, AND THE CODES, OR IF ANY CHANGE IS REQUIRED, THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IMMEDIATELY. NO CHANGE SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.

FOUNDATIONS

- FOUNDATIONS HAVE BEEN DESIGNED TO AN ALLOWABLE SOIL BEARING PRESSURE OF 4,000 PSF ON VIRGIN SOILS SHOULD CONDITIONS VARY FROM THOSE ASSUMED, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED BEFORE CONTINUATION OF WORK.
- ALL FOOTINGS SHALL BE PLACED DIRECTLY ON VIRGIN SOIL, CERTIFIED COMPACTED FILL, OR ROCK.
- CONCRETE FOR FOUNDATIONS:
 - ALL CONCRETE WORK SHALL CONFORM TO REQUIREMENTS OF THE A.C.I. BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE (318-02 ULTIMATE STRENGTH DESIGN).
 - ALL CONCRETE SHALL BE MIXED, TRANSPORTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS 318, 304, AND 301, LATEST EDITIONS.
 - PROVIDE CONCRETE WITH THE FOLLOWING PROPERTIES:

f'c (PSI)	COURSE	LOCATION
4000	NORMAL WEIGHT	U.O.N.
- SEE REINFORCED CONCRETE NOTES FOR ADDITIONAL INFORMATION.
- ALL FILL SHALL BE PLACED IN TWELVE INCH LOOSE LIFTS (MAXIMUM) COMPACTED TO PROVIDE 95% OF MAXIMUM DRY DENSITY BELOW PROPOSED FOOTINGS AND SLABS.
- ALL EXTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 3'-6" BELOW FINAL GRADE WHEN BEARING ON SOIL.
- DEWATERING SHALL BE PROVIDED AS REQUIRED SO THAT EXCAVATION, CONCRETE WORK AND BACKFILLING ARE TO BE PERFORMED IN THE DRY.
- BACKFILL AGAINST FOUNDATION WALLS OR CMU RETAINING WALLS SHALL NOT BE PERFORMED FOR A MINIMUM OF SEVEN DAYS AFTER CONSTRUCTION IS COMPLETED.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE BOTTOM OF FOOTING ELEVATION IS CHANGED AND OBTAIN REVISED DESIGN OF THE FOUNDATION WALLS AS REQUIRED.

REINFORCED CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO REQUIREMENTS OF THE ACI 301, 304, AND ACI 318, LATEST EDITIONS.
- THE CONCRETE MIX SHALL CONFORM TO THE PROVISIONS FOR CONCRETE QUALITY CONTAINED IN CHAPTER 5, ACI 318. COMPRESSIVE STRENGTH, f'c, IS MEASURED AT 28 DAYS AGE.

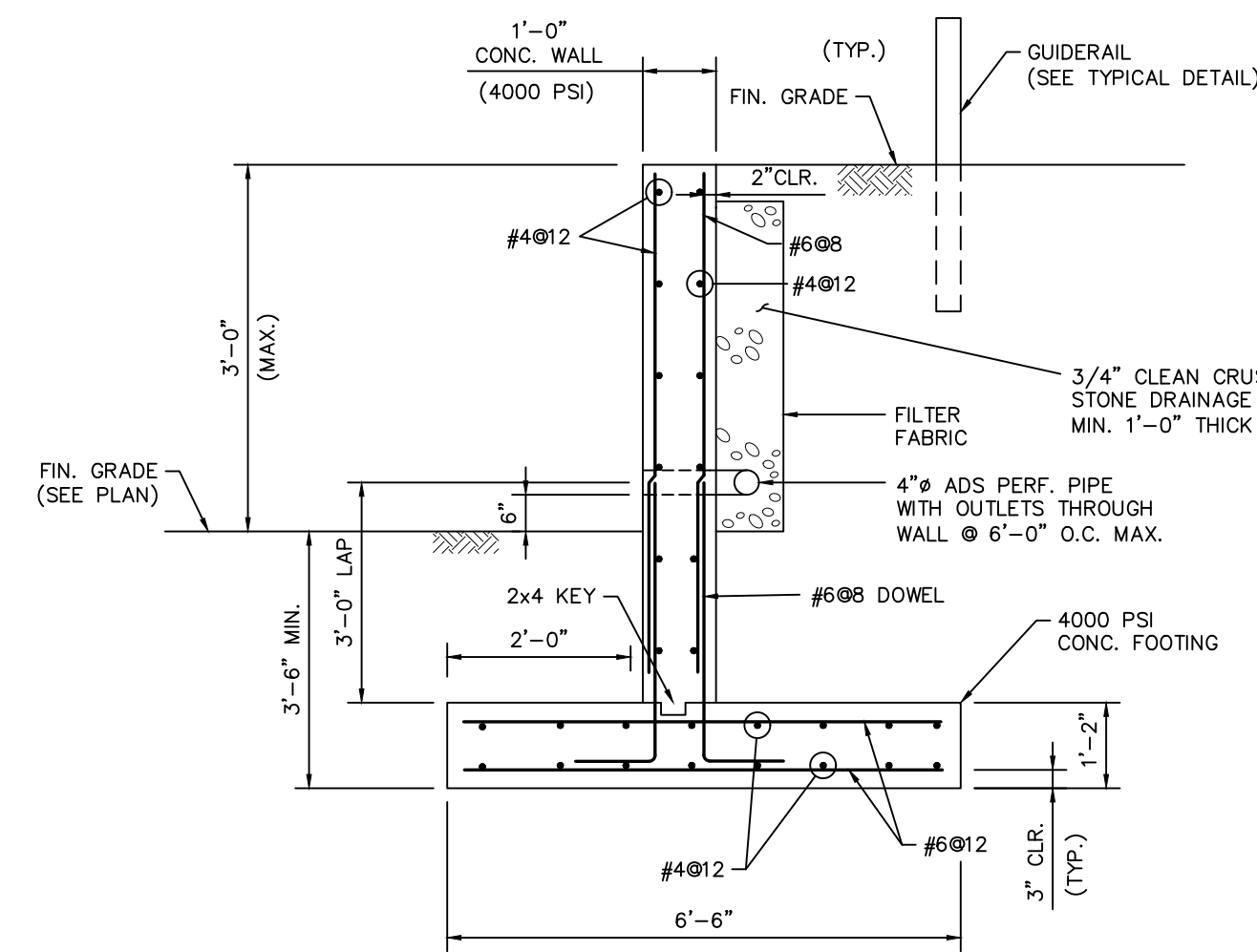
f'c (PSI)	MINIMUM CEMENT POUNDS PER C.Y.	LOCATION
4000	NORAML WEIGHT	610 ALL
- PROVIDE CONCRETE WITH THE FOLLOWING PROPERTIES:

f'c (PSI)	COURSE	MAXIMUM SLUMP	MAXIMUM WATER CEMENT RATIO
4000	NORMAL WEIGHT	5	0.46
- UNLESS OTHERWISE NOTED:
 - ALL REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
 - ALL WELDED WIRE MESH SHALL CONFORM TO ASTM A185.
- 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 ACI 318.
- REINFORCING BAR DEVELOPMENT LENGTHS, AS COMPUTED IN ACCORDANCE WITH ACI 318, FORM THE BASIS FOR BAR EMBEDMENT LENGTHS AND BAR SPICE LENGTHS SHOWN IN THE DRAWINGS. APPLY APPROPRIATE MODIFICATION FACTORS FOR TOP-STEEL, BAR SPLICING, COVER, AND THE LIKE.
- DETAILING OF REINFORCING STEEL SHALL CONFORM TO ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315).
- LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER.
- SPLICES OF WWF, 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 WIRE PLUS 2 INCHES, NOR LESS THAN 8 INCHES.
- WELDING OF REINFORCING BARS IS NOT PERMITTED UNLESS SPECIFICALLY CALLED FOR IN THE DRAWINGS.
- ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. THE WIRE SHALL BE 16 GAGE CONFORMING TO ASTM A82.
- REINFORCING STEEL SUPPORTED ON THE GROUND SHALL BE PLACED ON PRECAST BLOCKS PROVIDED SPECIFICALLY FOR THE INTENDED PURPOSE.
- BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.
- REINFORCING STEEL SHALL BE PLACED TO PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER, UNLESS OTHERWISE INDICATED:

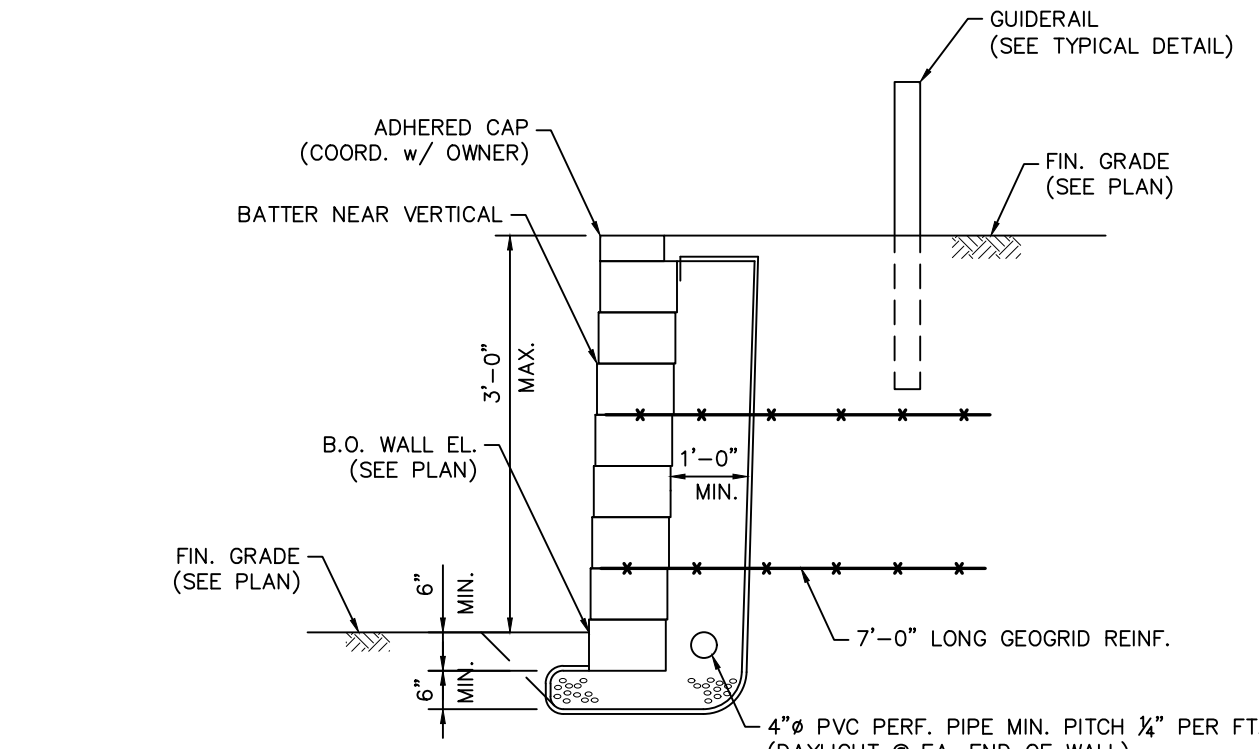
SLABS/FOOTINGS/FOUNDATIONS	WALLS
3"	2"
- NON-SHRINK GROUT SHALL BE PREMIXED AND BAGGED BY MANUFACTURER. ACCEPTABLE NON-SHRINK GROUT: MASTERFLOW 713 BY MASTER BUILDERS OR ACCEPTED BY THE ENGINEER.

MODULAR BLOCK

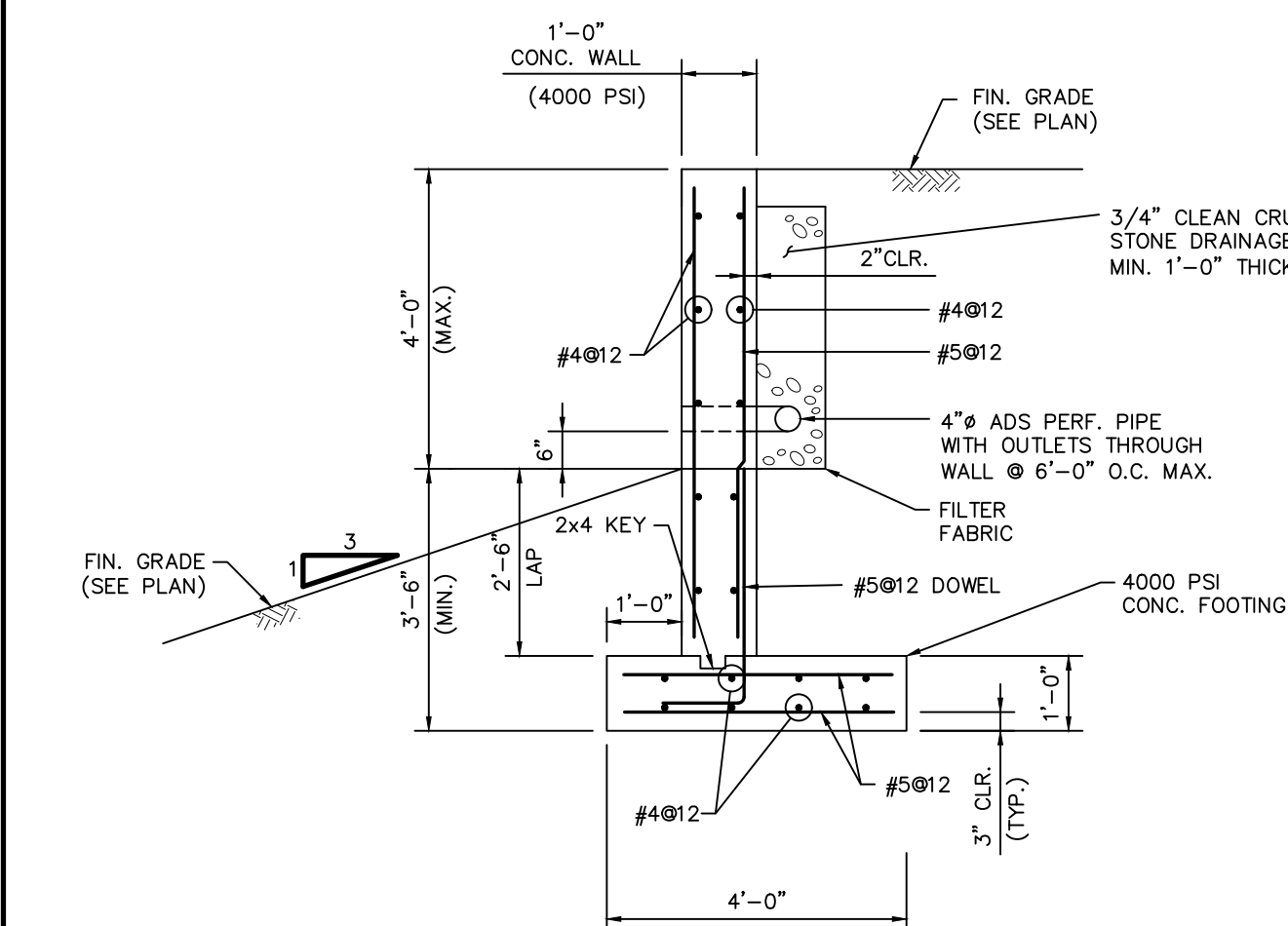
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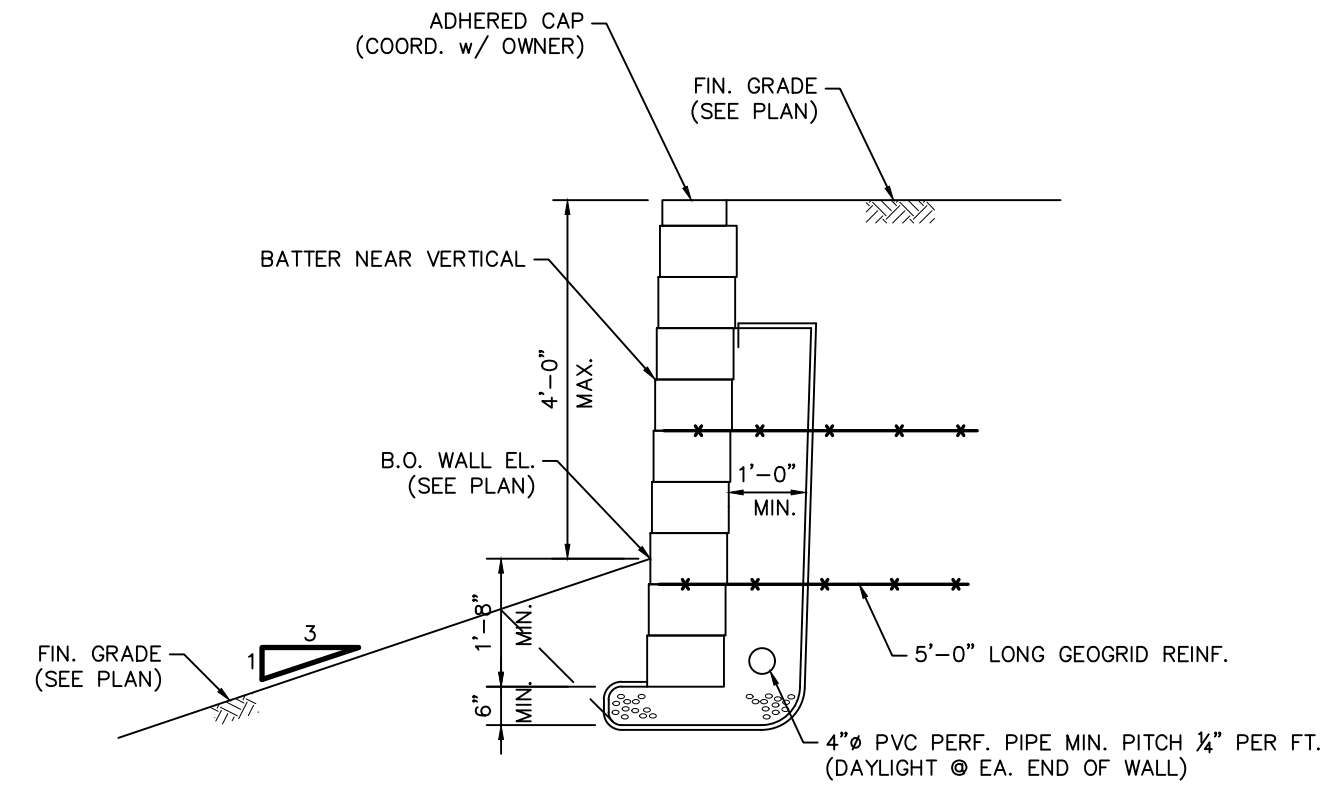
3'-0" CONCRETE RETAINING WALL "A"



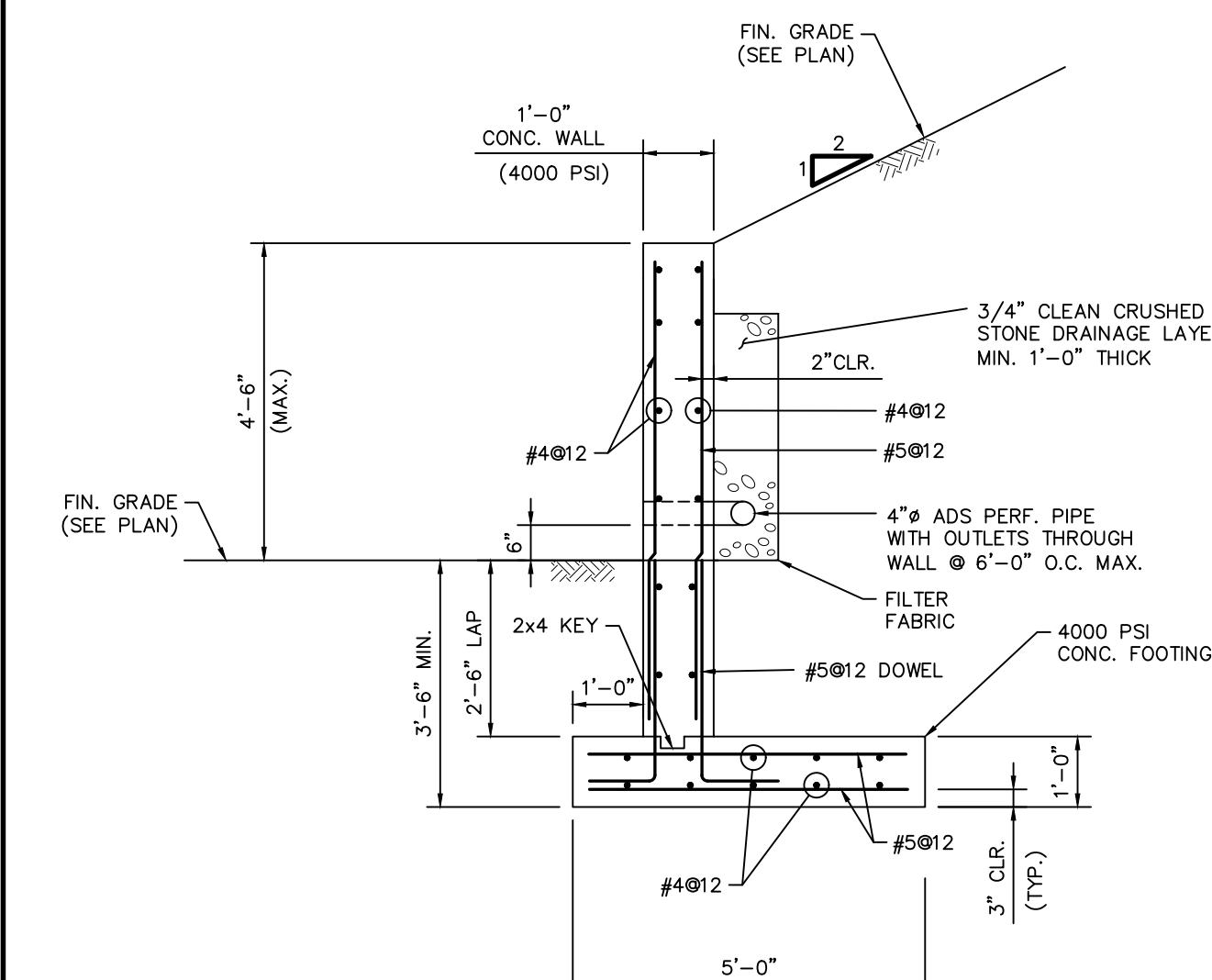
3'-0" MODULAR BLOCK RETAINING WALL "A"



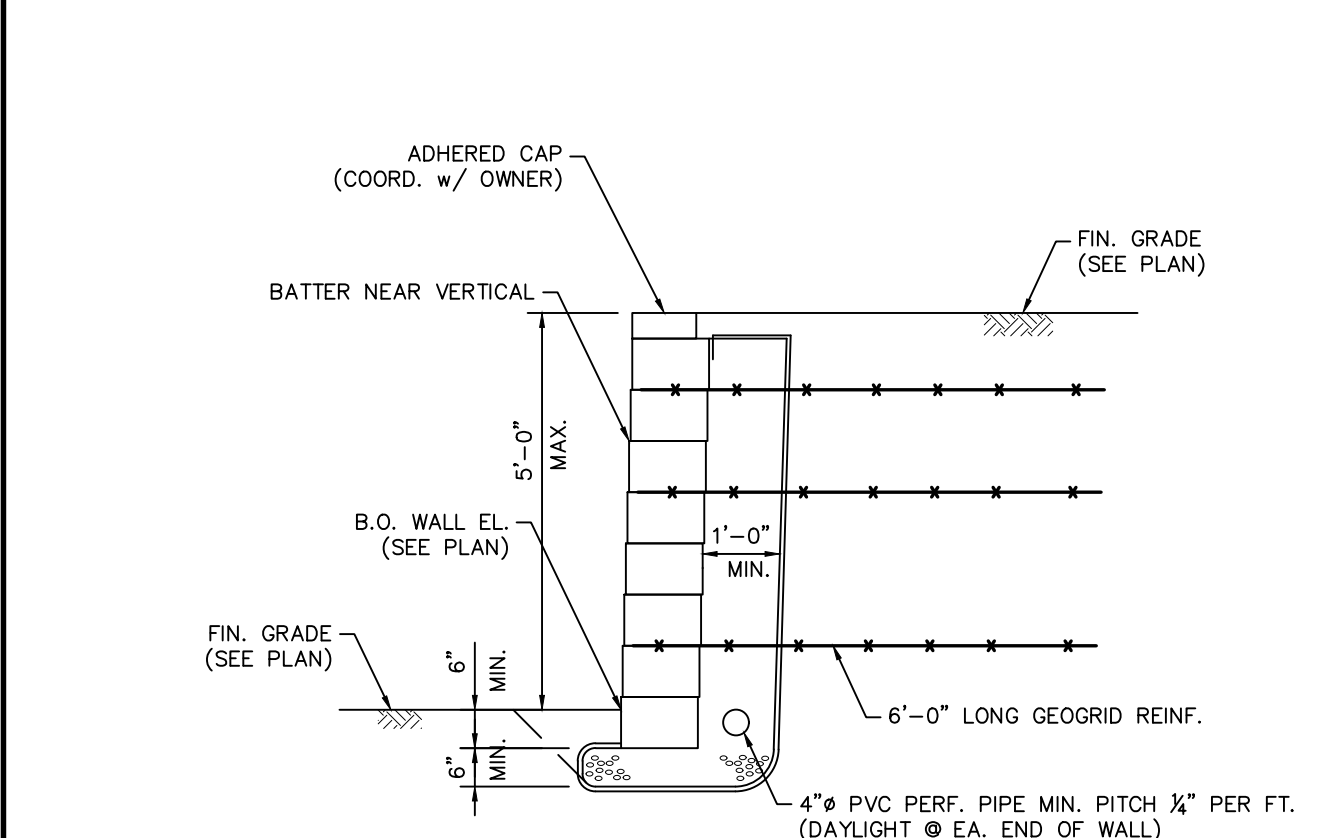
4'-0" CONCRETE RETAINING WALL "B"



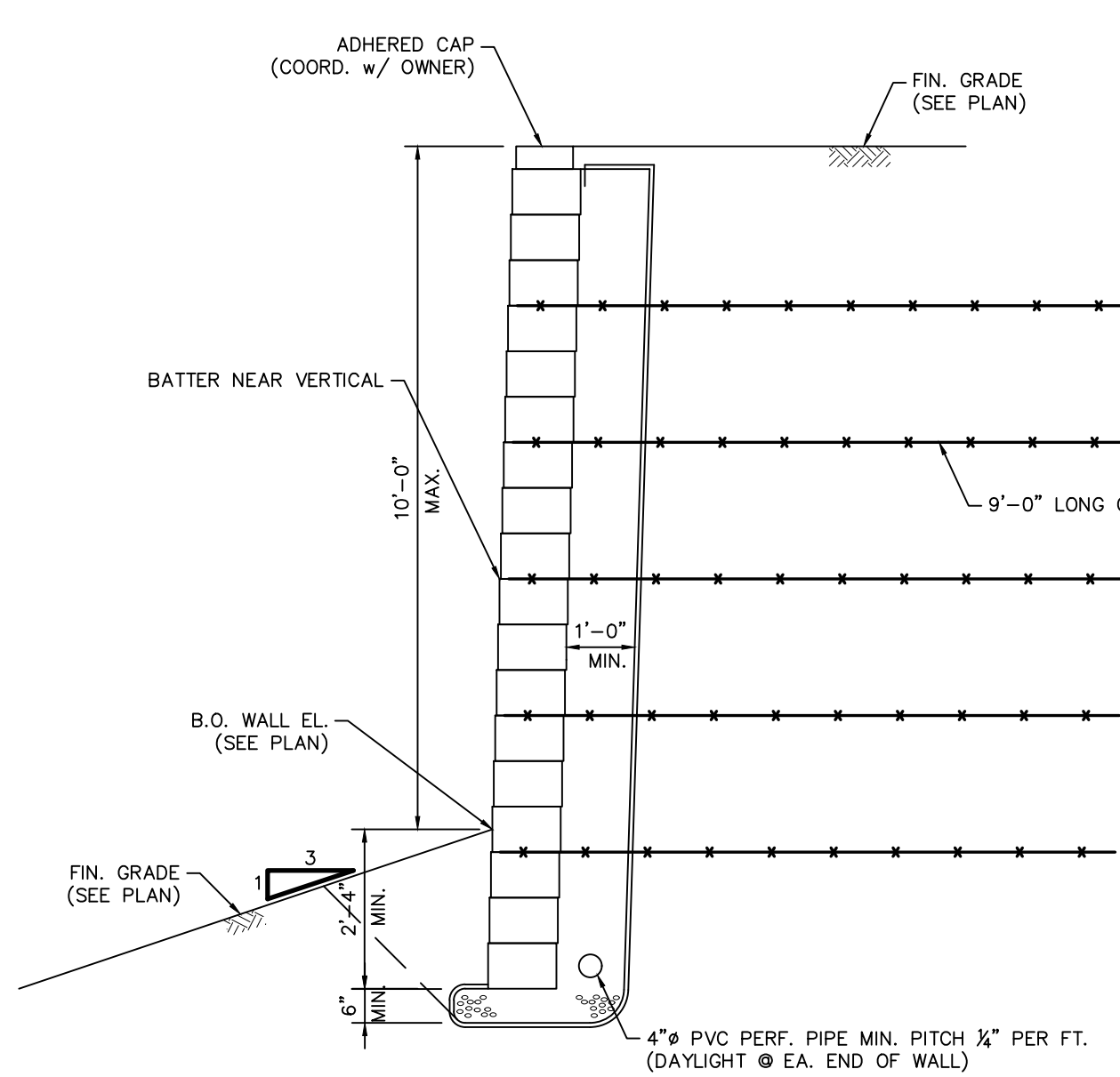
4'-0" MODULAR BLOCK RETAINING WALL "B"



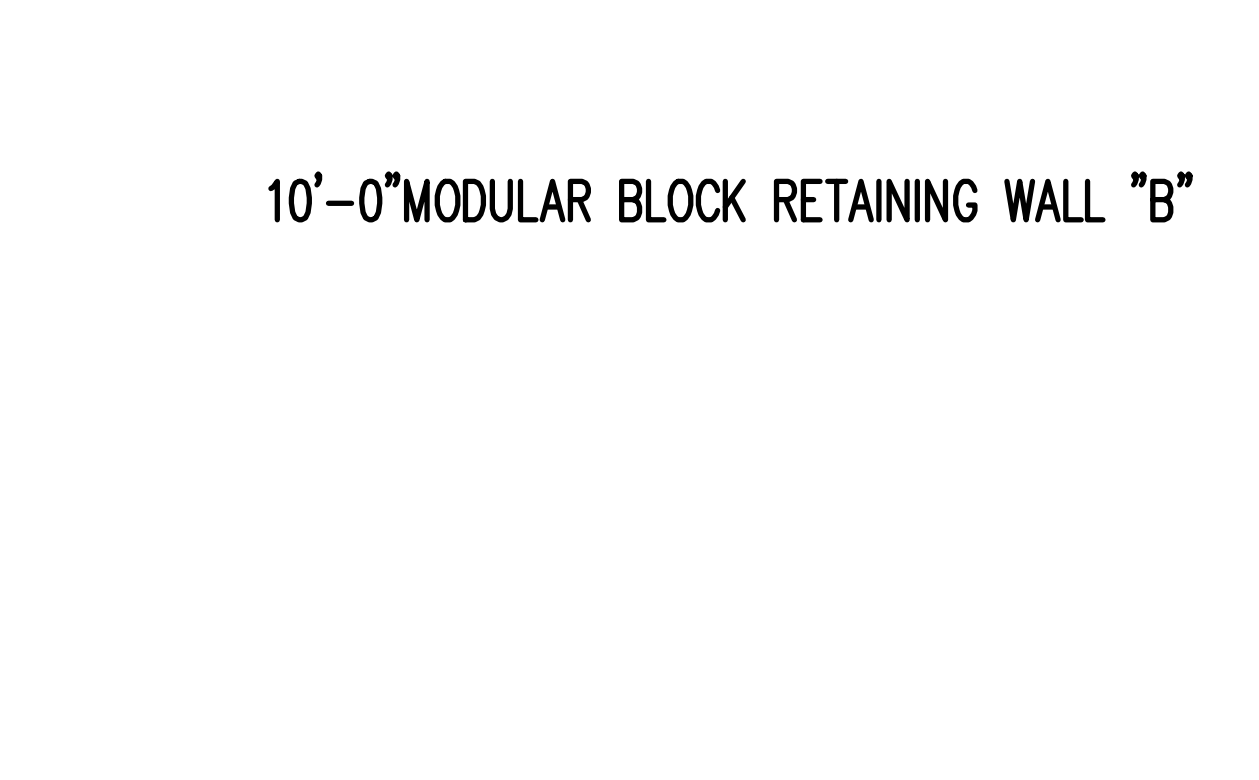
4'-6" CONCRETE RETAINING WALL "D"



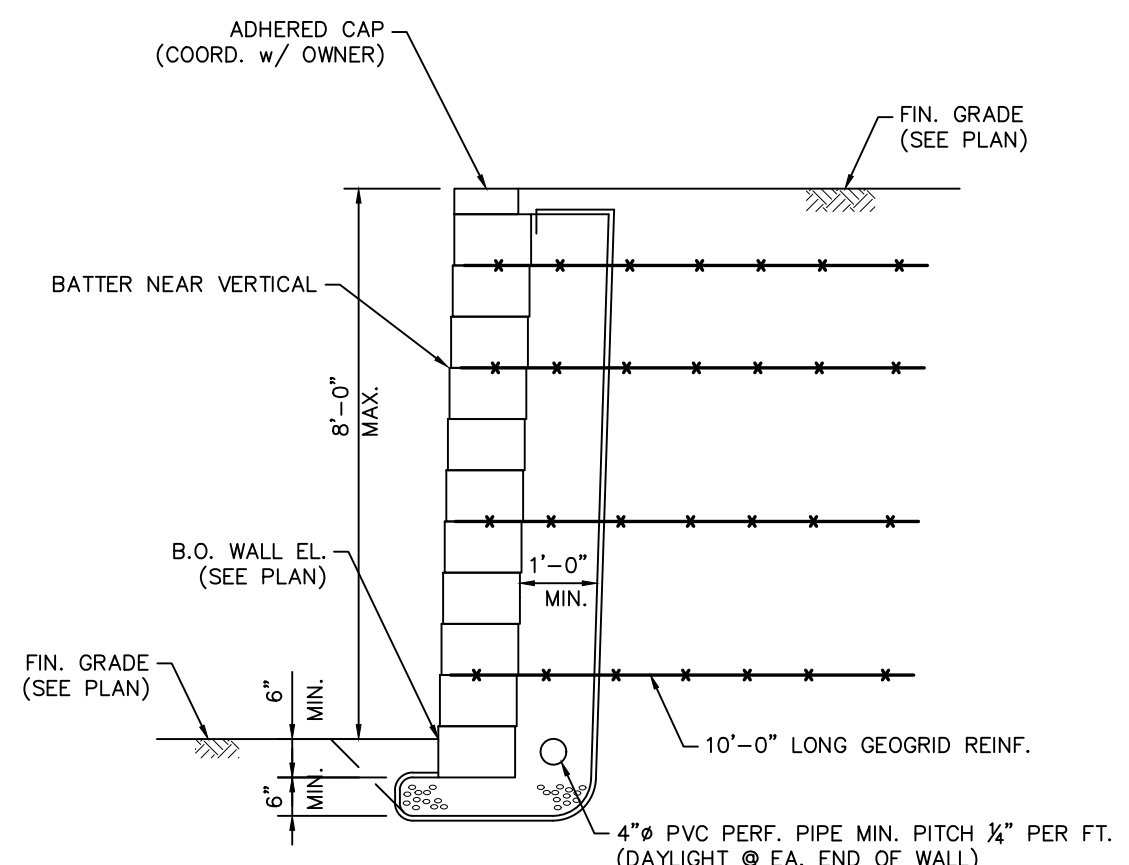
5'-0" MODULAR BLOCK RETAINING WALL "G"



10'-0" CONCRETE RETAINING WALL "B"



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



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

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

4	REVISED PER SETTLEMENT PLAN	10/13/2023	JMP
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

SETTLEMENT PLAN
RETAINING WALL DETAILS



J. MICHAEL PETRY-PE,PP,RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36662

Designer: JMP
Draftsman: JMP
Checked By: JMP
Project No.: 19-265
Scale: N.T.S.
Sheet: SP-22