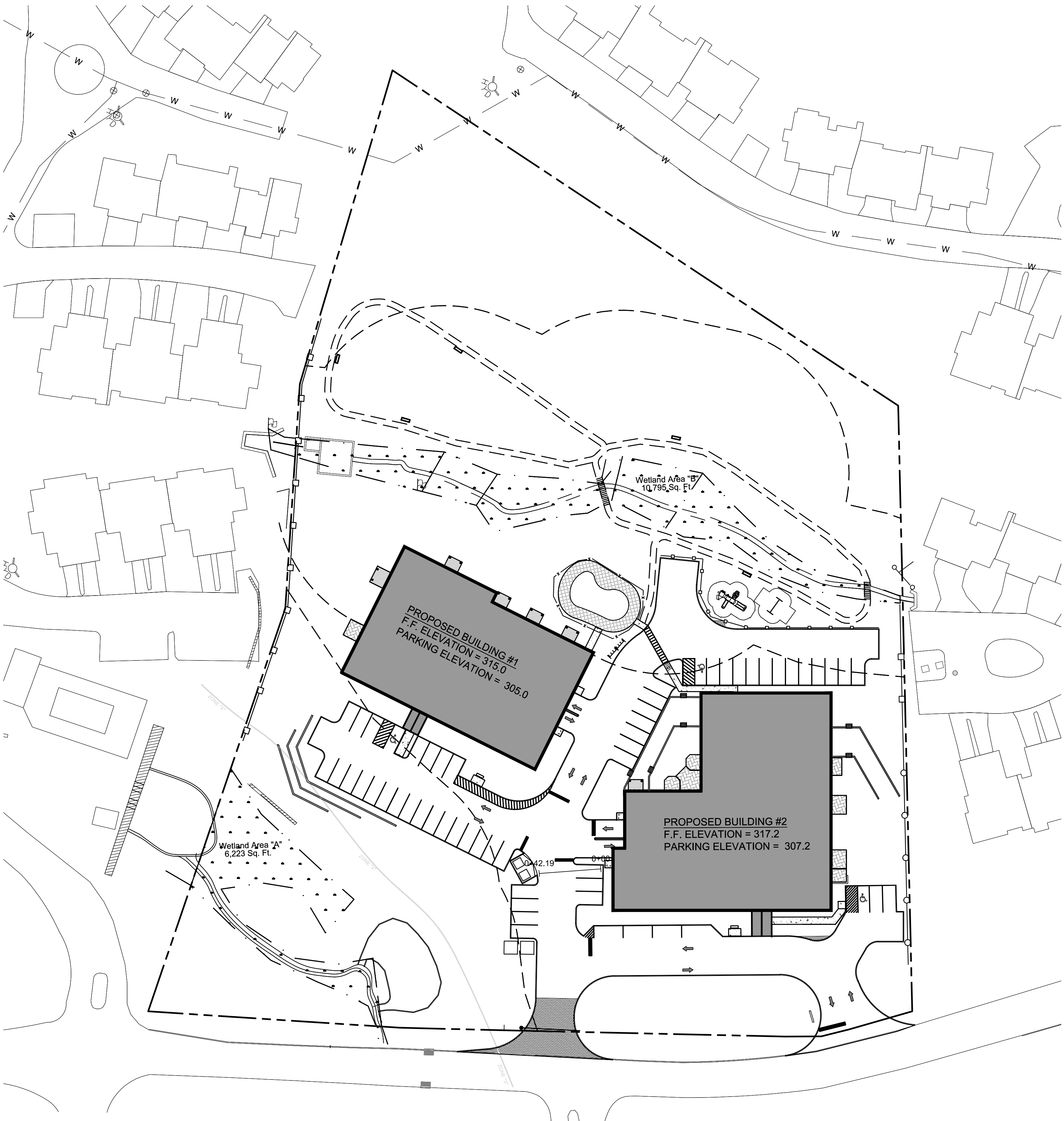


LOCATION MAP
NOT TO SCALE

SITE DATA:
OWNER/DEVELOPER: PARTH KNOLLS LLC.
500 EXECUTIVE BLVD. #203
OSSINING, NY, 10562
87 HAWKES AVE.
OSSINING, NY, 10562
PROJECT LOCATION: MF-I, MULTIFAMILY-INN
MF-I, MULTIFAMILY-INN
EXISTING TOWN ZONING: SECTION 80.20, BLOCK 1, LOT 15
PROPOSED USE: 5.53 ACRES (240,751 SF)
TOWN TAX MAP DATA: PUBLIC SEWERS
SITE AREA : PUBLIC WATER FACILITIES
SEWAGE FACILITIES:
WATER FACILITIES:

DRAWING INDEX:

SHEET NUMBER	DRAWING TITLE
T-1	TITLE SHEET
T-2	TITLE SHEET 2
C-101	SITE PLAN
C-102	EXISTING CONDITIONS PLAN
C-103	E&SC PLAN
C-104	UTILITY PLAN
C-105	WATERMAIN LOOP PLAN
C-106	GRADING PLAN
C-107	SIGHT DISTANCE PLAN
C-108	TREE PLAN
C-109	FIRE ACCESS PLAN
C-110	ENVIRONMENTAL CONSTRAINTS MAP
C-111	OPEN SPACE AND RECREATION PLAN
C-112	LIGHTING PLAN
C-301	UTILITY PROFILES
C-302	PROFILES
G-1	NOTES
G-2	E&SC NOTES
C-501	E&SC DETAILS
C-502	SITE DETAILS
C-503	WATERMAIN DETAILS
C-504	SANITARY SEWER DETAILS
C-505	DRAINAGE DETAILS
C-506	STORMWATER MANAGEMENT DETAILS
C-507	DOWNSTREAM DEFENDER DETAILS
C-508	CISTERN DETAILS
M-101	WETLAND BUFFER MITIGATION PLAN
M-102	BUFFER MITIGATION NOTES
L-101	LANDSCAPE PLAN
A-100	ZONING & CODE ANALYSIS
A-100A	SCHEMATIC BUILDING LAYOUT AND TABULATIONS
A-101	PROPOSED BUILDING #1 - BASEMENT FLOOR PLAN
A-102	PROPOSED BUILDING #1 - FIRST FLOOR PLAN
A-103	PROPOSED BUILDING #1 - SECOND FLOOR PLAN
A-104	PROPOSED BUILDING #1 - UPPER LEVEL FLOOR PLAN
A-105	PROPOSED BUILDING #1 - ROOF PLAN
A-106	PROPOSED BUILDING #1 - FRONT AND REAR ELEVATIONS
A-107	PROPOSED BUILDING #1 - LEFT AND RIGHT SIDE ELEVATIONS
A-201	PROPOSED BUILDING #2 - BASEMENT FLOOR PLAN
A-202	PROPOSED BUILDING #2 - FIRST FLOOR PLAN
A-203	PROPOSED BUILDING #2 - SECOND FLOOR PLAN
A-204	PROPOSED BUILDING #2 - UPPER LEVEL FLOOR PLAN
A-205	PROPOSED BUILDING #2 - ROOF PLAN
A-206	PROPOSED BUILDING #2 - FRONT AND REAR ELEVATIONS
A-207	PROPOSED BUILDING #2 - LEFT AND RIGHT SIDE ELEVATIONS



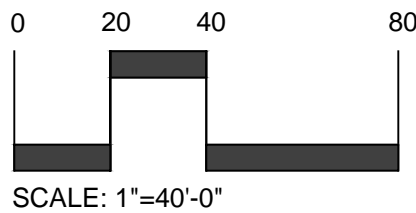
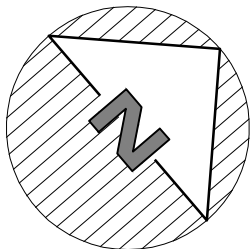
CIVIL ENGINEER:
SITE DESIGN CONSULTANTS
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ENVIRONMENTAL CONSULTANT:
TIM MILLER ASSOCIATES INC.
10 NORTH STREET
COLD SPRING, NY 10516
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TRAFFIC CONSULTANT:
TIM MILLER ASSOCIATES INC.
10 NORTH STREET
COLD SPRING, NY 10516
P: 845-265-4400

ARCHITECT:
ARQ.HT, LLC.
100 EXECUTIVE BLVD #205
OSSINING, NY 10562
P: 914-944-3377



ZONING SCHEDULE:

ZONING DISTRICT: MF-I, MULTI FAMILY RESIDENTIAL			
DIMENSIONAL REGULATIONS:	REQUIRED	PROVIDED	VARIANCE REQUIRED
MINIMUM SIZE OF LOT:			
MINIMUM LOT AREA:	40,000 SF.	240,751 SF.	NONE
MINIMUM LOT WIDTH:	150 FT.	522 FT.	NONE
MINIMUM LOT DEPTH:	150 FT.	414 FT.	NONE
MINIMUM YARD DIMENSIONS:			
PRINCIPAL BUILDING:			
FRONT YARD SETBACK:	50 FT.	68 FT.	NONE
REAR YARD SETBACK:	40 FT.	201 FT.	NONE
ONE SIDE YARD SETBACK:	50 FT.	50 FT.	NONE
COMBINED SIDE YARD SETBACK:	100 FT.	100 FT.	NONE
MAXIMUM % OF LOT TO BE OCCUPIED:			
LOT COVERAGE:	66% x 240,751 SF = 158,895 SF	73,894 SF	NONE
BUILDING COVERAGE:	20% x 240,751 SF = 48,151 SF	32,767 SF	NONE
MAXIMUM HEIGHT:			
PRINCIPAL BUILDING - FEET:	35 FEET	30 FEET	NONE
PRINCIPAL BUILDING - STORIES:	2 1/2	2 1/2	NONE

ZONING REGULATION NOTES:

1. AT LEAST 1/3 OF THE NET SITE AREA SHALL BE DEVOTED TO PERMANENT OPEN SPACE AND/OR FOR SITES SUITABLE FOR RECREATION AS REQUIRED BY NOTE 2. UNDEVELOPED PERMANENT OPEN SPACE SHALL BE PROVIDED AND GUARANTEED AT THE RATE OF 1,500 SQUARE FEET PER BEDROOM.
2. THERE SHALL BE PROVIDED ON THE SAME LOT A SUITABLY EQUIPPED AND LANDSCAPED CHILDREN'S PLAY AREA WITH A MINIMUM OF 400 SQUARE FEET FOR EACH DWELLING UNIT.
3. BUILDING COVERAGE SHALL BE NO MORE THAN 20% OF LOT AREA. 20% x 240,751 SF = 48,151 SF

PARKING SCHEDULE

PARKING REQUIRED: Two (2) spaces per dwelling unit pursuant to Zoning Section 200-29, Dwelling, Multifamily

Proposed Dwelling units. 53 apartments time (2) equals 106 spaces

Indoor Parking	Breakdown	Total Parking
Building No. 1	Standard 25 Handicap 1 Total 26	26
Building No. 2	Standard 30 Handicap 1 Total 31	31
Outdoor Parking	Breakdown	
	Standard 55 Handicap 3 Total 58	58
Total Parking Provided		115

NOTES:

1. PARKING REGULATION IN CONFORMANCE WITH CHAPTERS 200-29 A(1),(2),(3)(a), C, D(1),(2)

Article VI.

Section 200.33 Affordable Housing (BMR)

Section 200.34 Required 10% of the number of Dwelling units
More than 5, but fewer than 10 acres 30%
Maximum permitted Density Bonus
Calculation Dwelling 41 Apartm 41
1/2 of the units received must be BMR
Density Bonus (x) 30%
Number of Dwelling units 12.3
Rounded Number of Dwelling units 12
Total number of units with density Bonus 53
1/2 of the Bonus Units received must be BMR 6
BMR units will be broken down as follows: 1 2 bedroom unit
5 1 bedroom units

General Description of Project

Number of Multifamily Units					
Type	Non-BMR	BMR Units	Total Units	Bedrooms	Unit Ratio
One (1) B/R	31	9	40	40	75%
Two (2) B/R	10	3	13	26	25%
Total Dwelling Units	41	12	53	66	100%

Section 200.29

Parking & loading
2 for each dwelling unit plus 0.5 for each bedroom Total
more than 2 bedrooms Regular Apts BMR Apts Parking
Dwelling Units 41 12
Parking per Dwelling Unit (x) 2 (x) 2
Total Parking spaces required 82 24 106

Building Height Max

Stories 2 1/2
Feet 35'
Design Colonial

DISTANCE BETWEEN BLDGS. (#200-16C(1) (B))

BUILDING HEIGHT X 2 = 30' X2= 60' PROVIDED 60.4'

BULK REGULATIONS (#200-22)

THE TOTAL NUMBER OF APARTMENTS ALLOWED PER SECTION 200-22:

BULK REGULATIONS

1. REQUIRED SQ FT PER DWELLING UNIT. 4,000 SF PLUS 1,500 SQ FT PER BEDROOM.

ONE (1) BEDROOM APARTMENTS 5,500
TWO (2) BEDROOM APARTMENTS 7,000

CALCULATION:

ONE (1) BEDROOM APARTMENTS
5,500SF X 31 = 170,500 SF 31
TWO (2) BEDROOM APARTMENTS
7,000 SF X 10= 70,000 SF
TOTAL APARTMENTS 41

TOTAL SF AREA REQUIRED 240,000 SF
TOTAL PROVIDED-SITE SF AREA: 240,751 SF

Article VI. Affordable Housing

See Sheet T for Calculation of the BMR Units and Compliance with this Section

Section 200-33 Required below -market-rate-unit component

No fewer than 10% of the total number of Units Shall be BMR Units
Number of BMR Units Provided 6
Number of BMR Units Required 5.3

Section 200-34

Residential Density bonus, Multifamily
More than 5 acres, but fewer than 10 30% Bonus

Section 200-35

Sub-Section A The BMR units shall be no less than 80% of the size of said market rate units and shall be reasonably distributed. Further, the BMR units shall provide a mix of unit types in the same proportion
Number of BMR Units Provided 6

See Sheet "T"

The Breakdown of the BMR Units are:
One (1) Bedroom Units 3 Simplex & 2 Duplex Units 5
Two (2) Bedroom Units 1 Simplex Unit 1
Total BMR Units See location in schedule below 6

Parth Knolls Apartment Tabulation

Building No.	Floor No	Apartment No	Livable Sq Ft Area	One B/R Simplex	One B/R Duplex	Two B/R Simplex	BMR Unit	Simp 1 B/R	Dupl 1 B/R	Simp 2 B/R
One	1st fl.	101	1,013	1,013				1		
One	1st fl.	102	1,032	1,032				1		
One	1st fl.	103	1,095	1,095				1		
One	1st fl.	104	1,095	1,095				1		
One	1st fl.	105	1,099	1,099				1		
One	1st fl.	106	1,375			1,375				1
One	1st fl.	107	1,081	1,081				1		
One	1st fl.	108	1,007	1,007			BMR			
One	1st fl.	109	1,054	1,054				1		
One	1st fl.	110	1,218			1,218				1
Two	1st fl.	111	1,263			1,263		8		2
Two	1st fl.	112	933	933				1		1
Two	1st fl.	113	1,015	1,015				1		
Two	1st fl.	114	1,053			1,053	BMR			1
Two	1st fl.	115	1,459			1,459				1
Two	1st fl.	116	1,015	1,015				1		
Two	1st fl.	117	1,034	1,034				1		
Two	1st fl.	118	1,216			1,216				1
Two	1st fl.	119	1,200			1,200				1
Two	1st fl.	120	927	927				1		
Two	1st fl.	121	1,121	1,121				1		
Two	1st fl.	122	941	941				1		
Two	1st fl.	123	846	846			BMR			
One	2nd fl	201	1,119		1,119				1	
One	2nd fl	202	1,119		1,119		BMR			1
One	2nd fl	203	1,145			1,145				1
Page 1, Bal. forward page 2			28,475	16,308	2,238	9,929		16	2	8
Building No.	Floor No	Apartment No	Livable Sq Ft Area	One B/R Simplex	One B/R Duplex	Two B/R Simplex	BMR Unit	Simp 1 B/R	Dupl 1 B/R	Simp 2 B/R
Balances forward from page 1			28,475	16,308	2,238	9,929		16	2	8
One	2nd fl	204	1,087	1,087				1		
One	2nd fl	205	1,276			1,276				1
One	2nd fl	206	1,264			1,264				1
One	2nd fl	207	1,087	1,087				1		
One	2nd fl	208	849	849			BMR			
One	2nd fl	209	1,109		1,109					1
One	2nd fl	210	1,081	1,081				1		
One	2nd fl	211	1,109		1,109					1
One	2nd fl	212	1,193	1,193				1		
One	2nd fl	213	1,043		1,043					1
One	2nd fl	214	1,110	1,110				1		
Two	2nd fl	215	1,264			1,264			22	7 8
Two	2nd fl	216	1,204		1,204				1	
Two	2nd fl	217	1,209	1,209			BMR			1
Two	2nd fl	218	950	950				1		
Two	2nd fl	219	1,255			1,255				1
Two	2nd fl	220	1,038	1,038				1		
Two	2nd fl	221	1,202		1,202					1
Two	2nd fl	222	1,184		1,184					1
Two	2nd fl	223	1,038	1,038				1		
Two	2nd fl	224	1,185		1,185				1	
Two	2nd fl	225	1,102		1,102					1
Two	2nd fl	226	1,375		1,375					1
Two	2nd fl	227	1,250		1,250				1	
Two	2nd fl	228	1,250	1,250				1		
Two	2nd fl	229	1,196		1,196				1	
Two	2nd fl	230	1,138		1,138					1
Total Square Foot Areas			59,523	26,991	16,469	16,063		28	14	13
Break down of Apartment Type				26 Apts	14 Apts	13 Apts				
Average Sq ft size by Apartment Type				1,038 sf	1,176 sf	1,236 sf				
Section 200.35.A										
BMR Units must be no less than 80% of size of said market rate units				830 sf	941 sf	989 sf				
Section 200.35.B										
Minimum gross Floor Area				675 sf	675 sf	750 sf				
Section 200-22										
Minimum requirements. 700 sf per for 1 or more bedrooms				700 sf	700 sf	700 sf				
Provided BMR Units										
Bldg. #1	1st Fl	Apt No.108		1,007 sf			Break-down of BMR Units:			
Bldg. #1	2nd Fl	Apt No.202			1,119 sf		1 B/R Simplex			
Bldg. #1	2nd Fl	Apt No. 208		849 sf			1 B/R Duplex			
Bldg. #2	1st Fl	Apt No.123		846 sf			1 B/R Simplex			
Bldg. #2	1st Fl	Apt No.114			1,053 sf		2 B/R Simplex			
Bldg. #2	2nd Fl	Apt No. 227		1,209 sf			1 B/R Duplex			

87 Parth Knolls BMR Units-Rev.1.2.29.16

Page 2



PROJECT # 15-18

Site Design Consultants

Civil Engineers • Land Planners

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Engineer:

Joseph C. Rinaa, P.E.

NYS Lic. No. 64431

Revisions:

No.	Date	Comments
1	11/9/15	Town Comments
2	12/7/15	Town Comments
3	1/25/16	Town Comments
4	3/1/16	Town Comments
5	4/8/16	Town Comments
6	5/23/16	Building 2 Revision -
7	8/31/16	Parking and Vestibule
8	9/7/16	Site Plan Revisions

SCALE:

NTS

DRAWN BY:

TK

DATE:

9/25/15

TITLE SHEET 2

SITE PLAN
PREPARED FOR

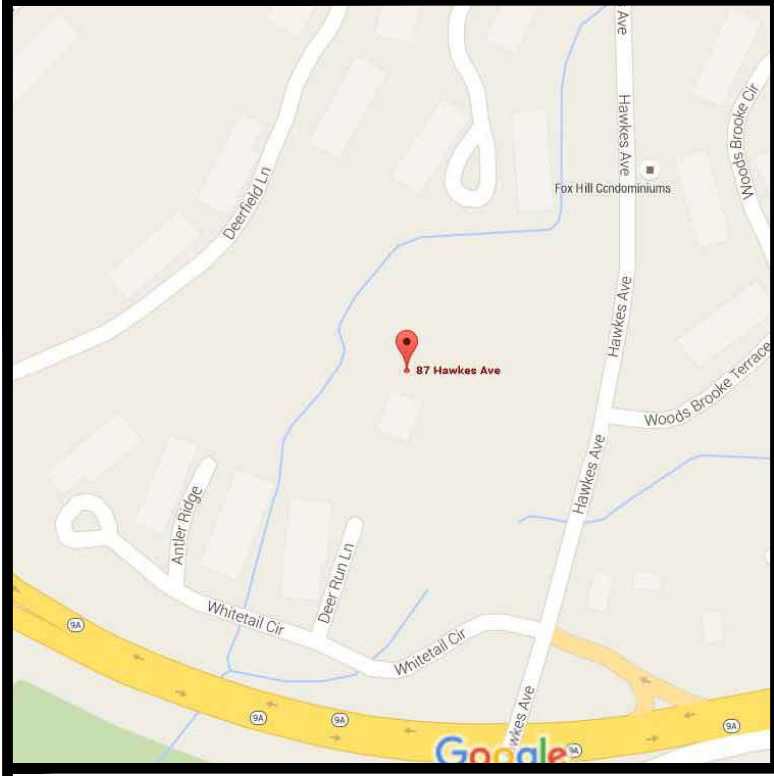
PARTH KNOLLS LLC.

87 HAWKES AVENUE

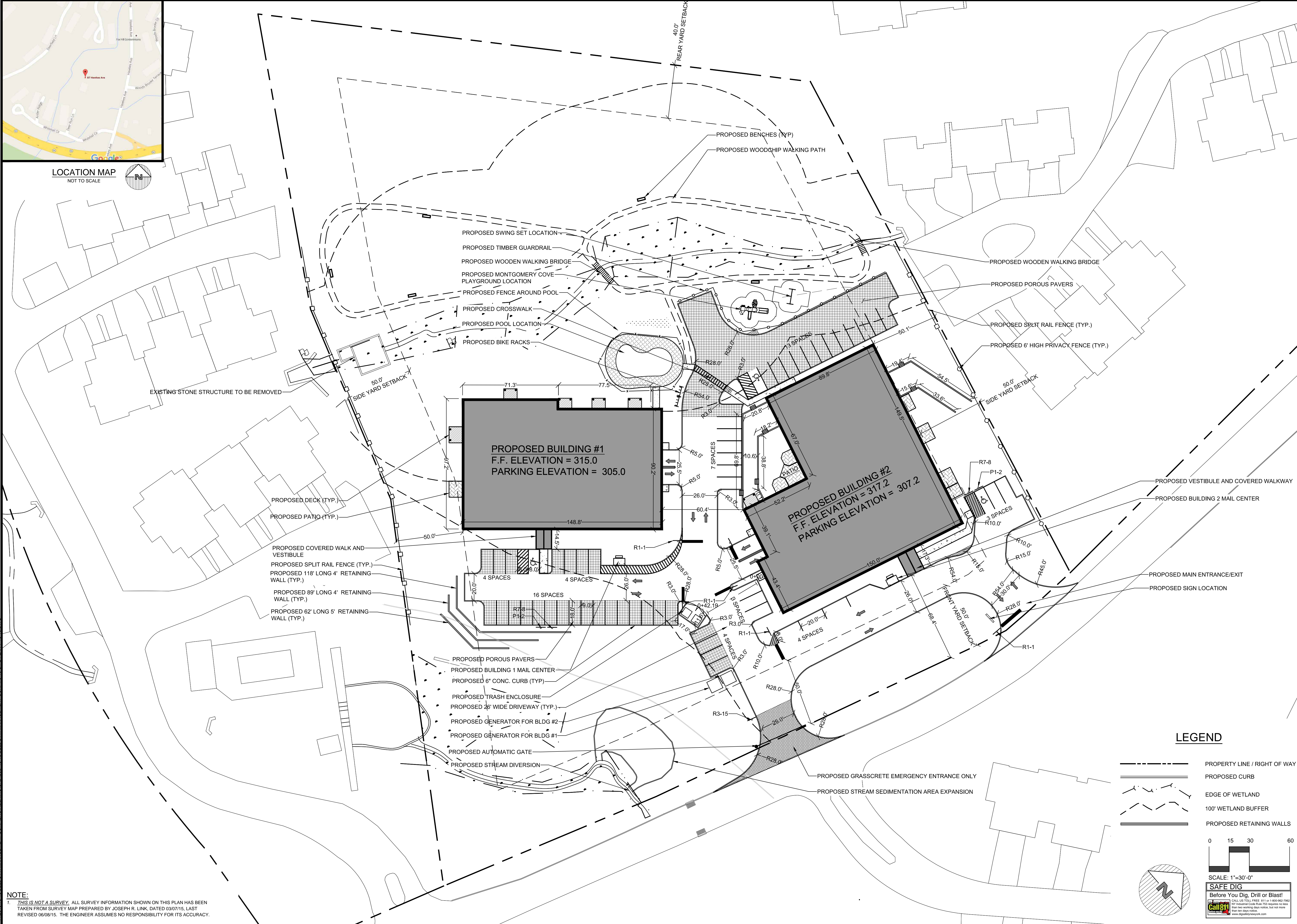
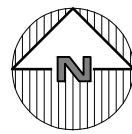
Town of Ossining Westchester County, NY

Sheet

T-2



LOCATION MAP
NOT TO SCALE



NOTE:
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PROJECT # 15-18

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Engineer:
Joseph C. Rina, P.E.
NYS Lic. No. 64431

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	7	8/3/16	Site Plan Revisions
	8	9/7/16	Site Plan Revisions

SCALE: 1" = 30'
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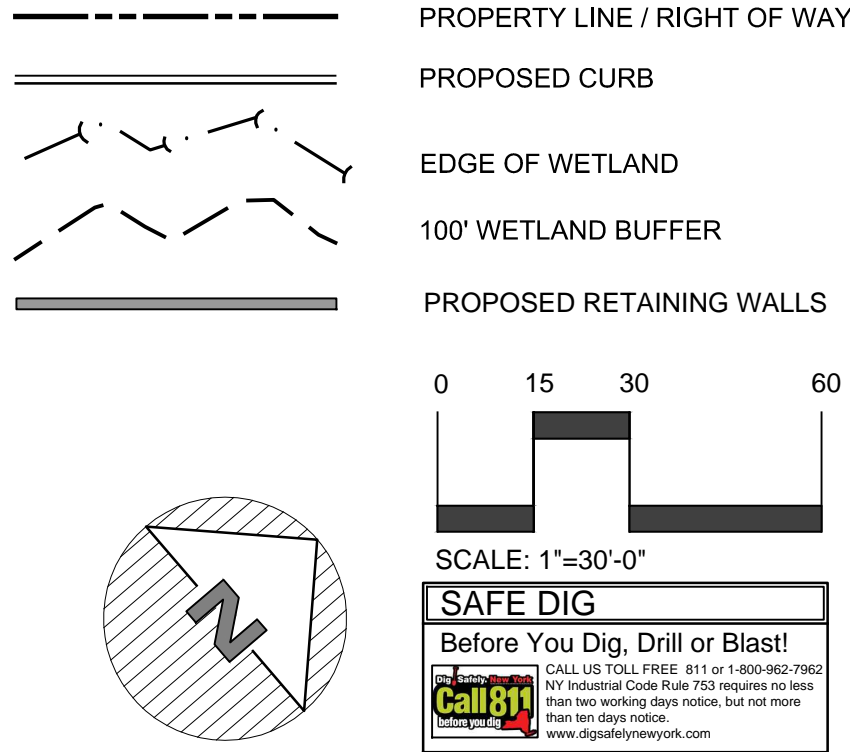
SITE PLAN

SITE PLAN
PREPARED FOR
PARTH KNOLLS LLC.

87 HAWKES AVENUE
Town of Ossining
Westchester County, NY


Sheet
C-101

LEGEND





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NYS Lic. No. 64431

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5	4/8/16
6	5/23/16
7	7/29/16
8	9/27/16

Comments:

Town Comments

Town Comments

Town Comments

Town Comments

Building 2 Revision -

Parking and Vestibule

Site Plan Revisions

Site Plan Revisions

SCALE:

1" = 30'

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DATE:

9/25/15

EXISTING
CONDITIONS
PLAN

SITE PLAN
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PARTH KNOLLS LLC.

87 HAWKES AVENUE

Town of Ossining

Westchester County, NY

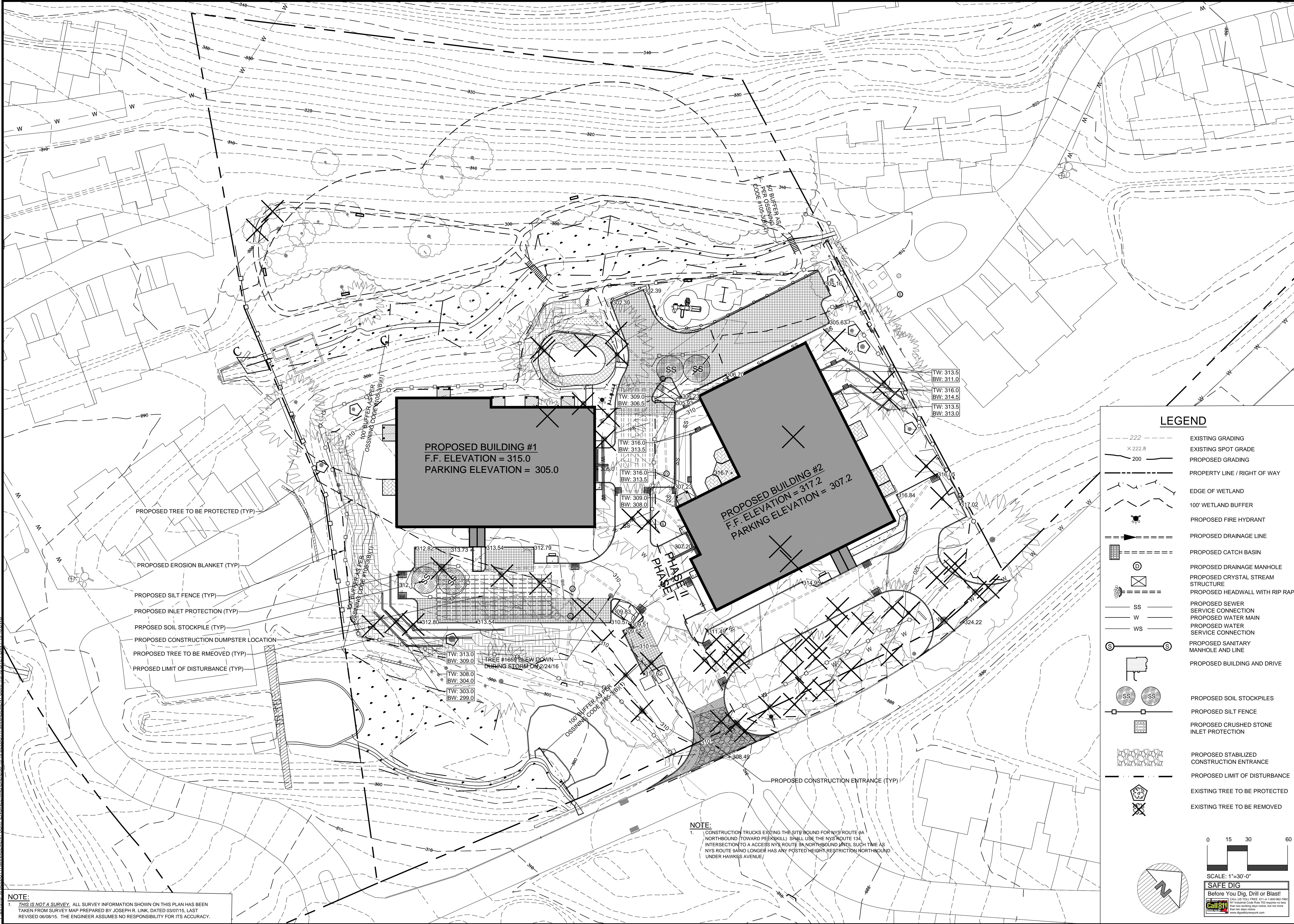
Sheet

C-102

LEGEND

- 222
- 222.8
- EXISTING GRADING
- EXISTING SPOT GRADE
- PROPERTY LINE / RIGHT OF WAY
- EDGE OF WETLAND
- 100' WETLAND BUFFER

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E:\2015\15-18 BELDOTT MANAGEMENT CORP\15-18 BELDOTT MANAGEMENT CORP\15-18 SITE PLAN 7-15-16.DWG

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DATE: 9/25/15

E&S PLAN

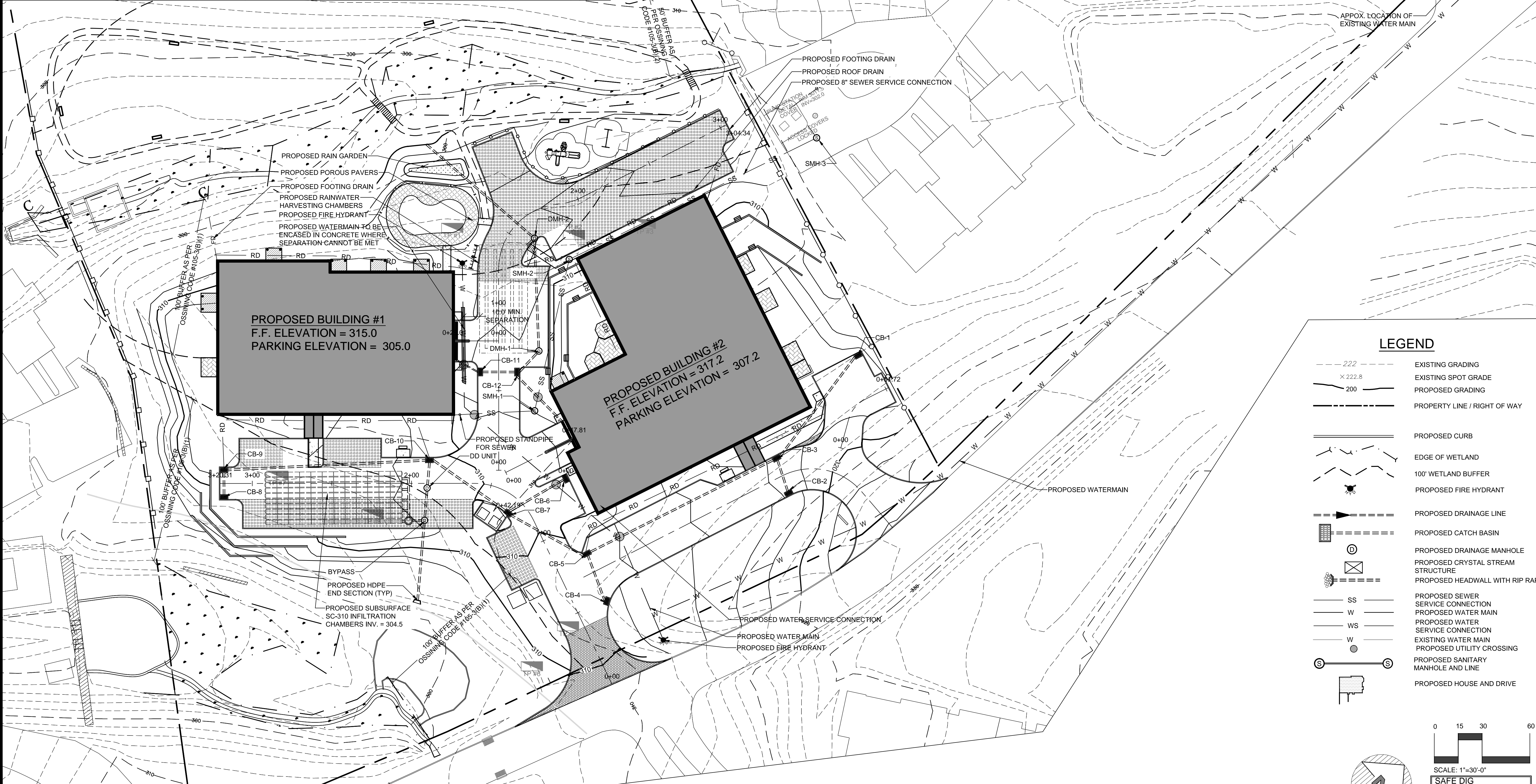
SITE PLAN PREPARED FOR
PARTH KNOLLS LLC.
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Sheet **C-103**


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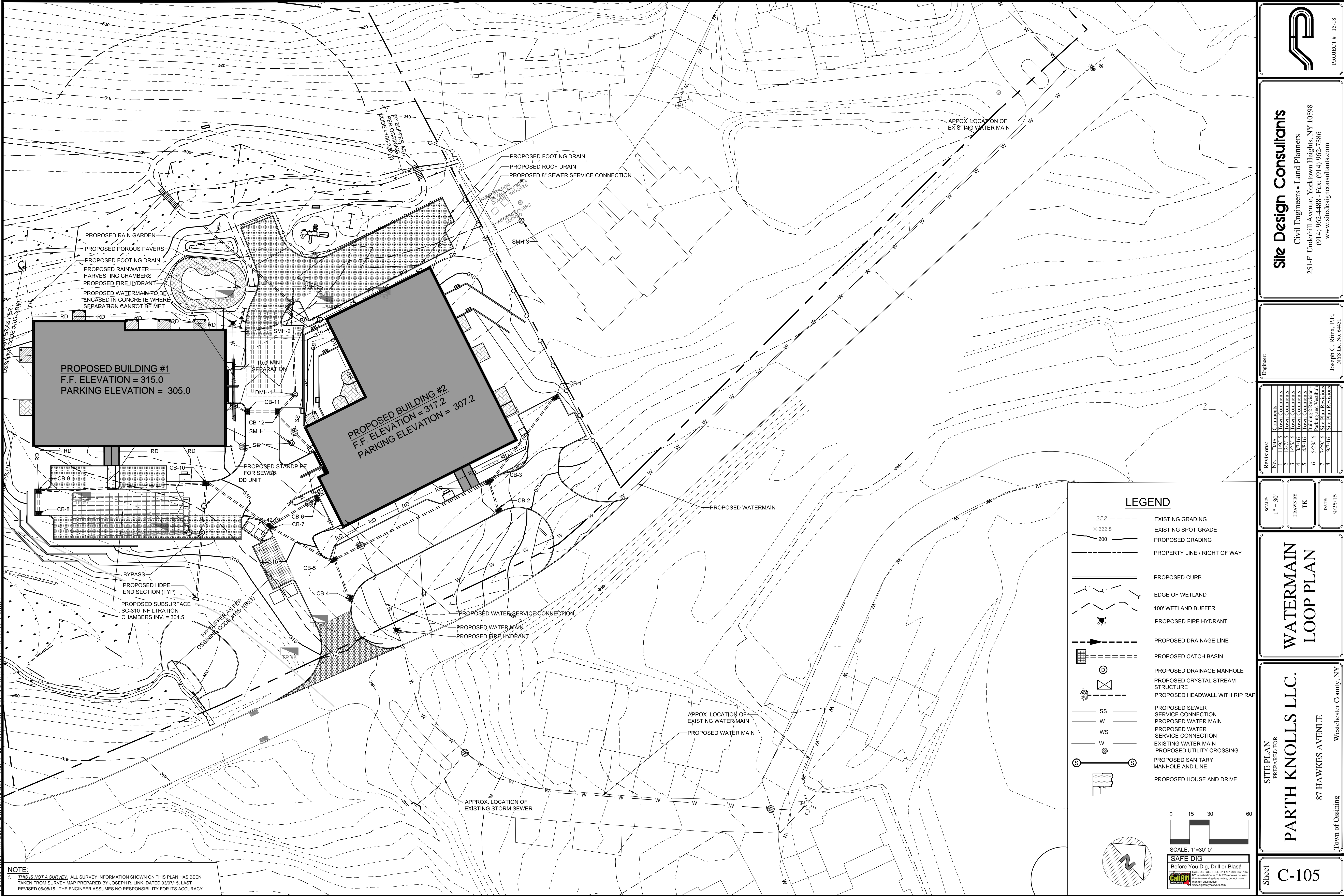
STORMWATER RIMS & INV.									
Pipe	Upstream Structure	Rim	Downstream Structure	Rim	Length (ft)	Section Size (in)	Upstream Inv. Elev. (ft)	Downstream Inv. Elev. (ft)	Slope (%)
CB-1 TO CB-3	CB-1	316.13	CB-3	316.59	78.09	12	313.13	312.30	1.00
CB-2 TO CB-3	CB-2	316.42	CB-3	316.59	21.20	12	313.42	313.19	1.00
CB-3 TO CB-5	CB-3	316.59	CB-5	311.03	129.33	12	312.05	308.03	3.02
CB-4 TO CB-5	CB-4	311.14	CB-5	311.03	29.42	12	308.14	307.98	0.50
CB-5 TO CB-7	CB-5	311.03	CB-7	309.44	52.01	12	307.00	306.44	0.50
CB-6 TO CB-7	CB-6	308.77	CB-7	309.44	40.16	12	306.00	305.79	0.50
CB-7 TO CB-10	CB-7	309.44	CB-10	310.95	55.42	15	305.77	305.47	0.50
CB-8 TO CB-9	CB-8	312.12	CB-9	312.12	15.04	12	309.12	308.95	1.00
CB-9 TO CB-10	CB-9	312.12	CB-10	310.95	125.17	12	308.70	307.45	0.97
CB-10 TO DD	CB-10	310.95	DD	311.33	13.87	15	305.22	305.14	0.50
DD TO BYPASS 1	DD	311.33	BYPASS 1	311.66	13.25	15	306.14	306.05	0.50
BYPASS 1 TO SC-310 CHAMBERS	BYPASS 1	311.66	SC-310 CHAMBERS	306.94	9.56	12	305.05	305.00	0.50
BYPASS 1 TO Outlet 1	BYPASS 1	311.66	Outlet 1	---	48.71	15	305.84	305.34	1.00
CB-11 TO CB-12	CB-11	306.69	CB-12	306.68	21.03	12	303.41	303.29	0.50
CB-12 TO BYPASS 2	CB-12	306.68	BYPASS 2	306.73	15.42	12	303.04	302.95	0.50
BYPASS 2 TO CISTERN	BYPASS 2	306.73	CISTERN	303.14	9.58	12	301.95	301.9	0.50
BYPASS 2 TO DMH-1	BYPASS 2	306.73	DMH-1	304.99	66.9	12	302.45	302.95	1.50
DMH-1 TO Outlet 2	DMH-1	304.99	Outlet 2	---	82.99	12	301.49	301.14	1.00

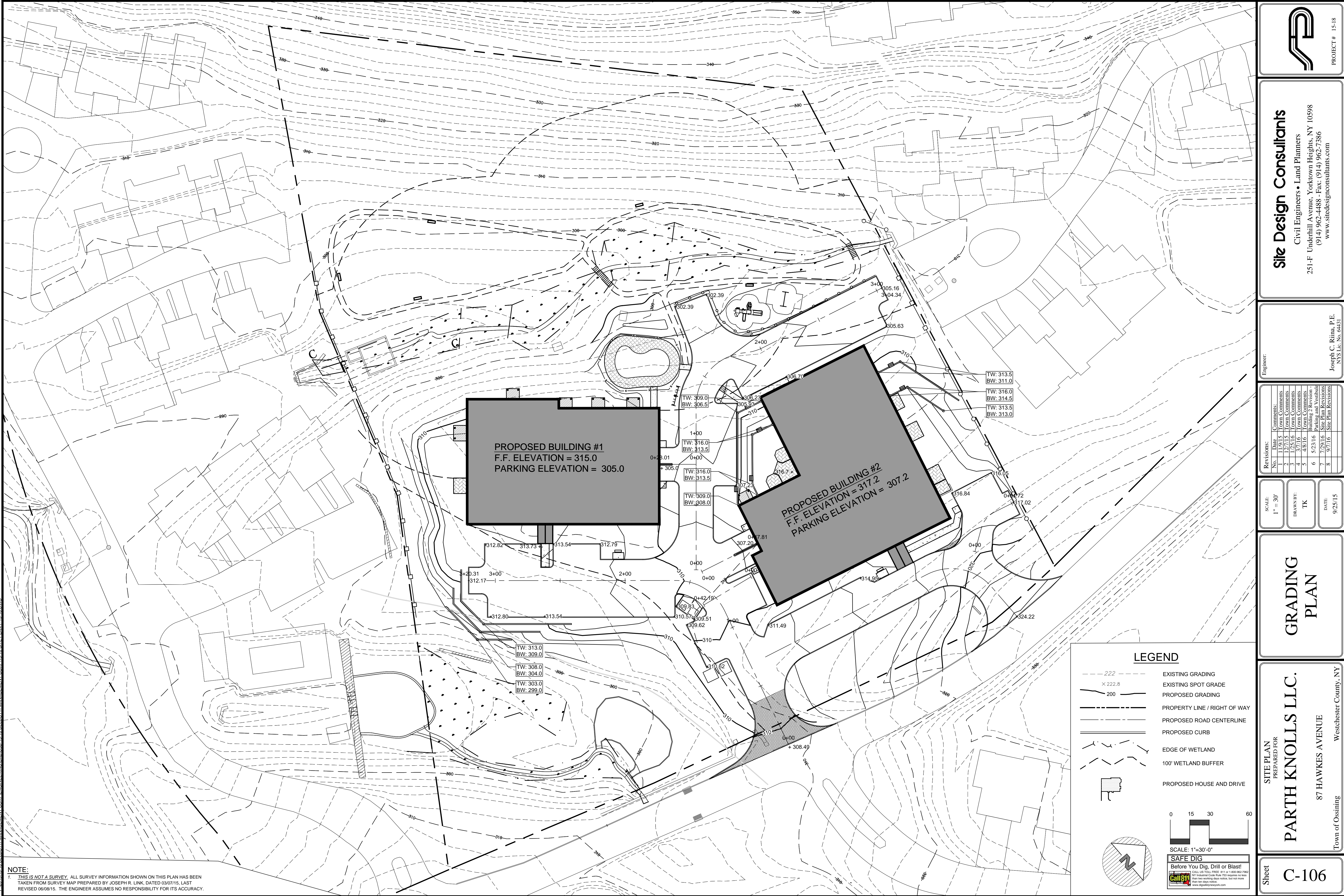
SANITARY SEWER RIMS & INV.									
Pipe	Upstream Structure	Rim	Downstream Structure	Rim	Length (ft)	Section Size (in)	Upstream Inv. Elev. (ft)	Downstream Inv. Elev. (ft)	Slope (%)
SMH-1 TO SMH-2	SMH-1	308.50	SMH-2	307.45	93.56	6	303.41	302.92	0.52
SMH-2 TO SMH-3	SMH-2	304.45	SMH-3	310.05	169.18	6	302.92	302.06	0.51
SMH-3 TO PUMPSTATION	SMH-3	310.00	PUMPSTATION	310.01	8.21	6	302.06	302.00	0.73



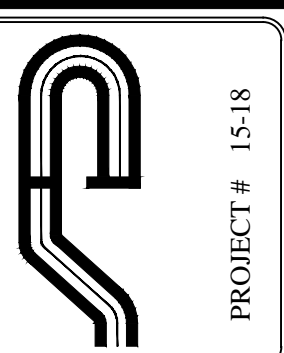
NOTE:
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Sheet C-104		SITE PLAN PREPARED FOR PARTH KNOLLS LLC. 87 HAWKES AVENUE Town of Ossining Westchester County, NY																															
UTILITY PLAN																																	
SCALE: 1" = 30'		Revisions: <table border="1"><thead><tr><th>No.</th><th>Date</th><th>Comments</th></tr></thead><tbody><tr><td>1</td><td>11/9/15</td><td>Town Comments</td></tr><tr><td>2</td><td>12/7/15</td><td>Town Comments</td></tr><tr><td>3</td><td>1/23/16</td><td>Town Comments</td></tr><tr><td>4</td><td>2/16/16</td><td>Town Comments</td></tr><tr><td>5</td><td>4/8/16</td><td>Town Comments</td></tr><tr><td>6</td><td>5/23/16</td><td>Building & Revision</td></tr><tr><td>7</td><td>7/29/16</td><td>Parking and Vestibule</td></tr><tr><td>8</td><td>9/7/16</td><td>Site Plan Revisions</td></tr><tr><td>9</td><td>9/7/16</td><td>Site Plan Revisions</td></tr></tbody></table>		No.	Date	Comments	1	11/9/15	Town Comments	2	12/7/15	Town Comments	3	1/23/16	Town Comments	4	2/16/16	Town Comments	5	4/8/16	Town Comments	6	5/23/16	Building & Revision	7	7/29/16	Parking and Vestibule	8	9/7/16	Site Plan Revisions	9	9/7/16	Site Plan Revisions
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DRAWN BY: TK		DATE: 9/25/15																															
<div>Engineer: <div>Joseph C. Rina, P.E. NYS Lic. No. 64431</div></div>																																	
<div>Site Design Consultants Civil Engineers • Land Planners 251-F Underhill Avenue, Yorktown Heights, NY 10598 (914) 962-4488 • Fax: (914) 962-7386 www.sitedesignconsultants.com</div>																																	
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Engineer:

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NYS Lic. No. 64431

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8	9/7/16	Site Plan Revisions

SCALE: 1" = 30'	DRAWN BY: TK	DATE: 9/25/15
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GRADING PLAN

SITE PLAN
PREPARED FOR

PARTH KNOLLS LLC.

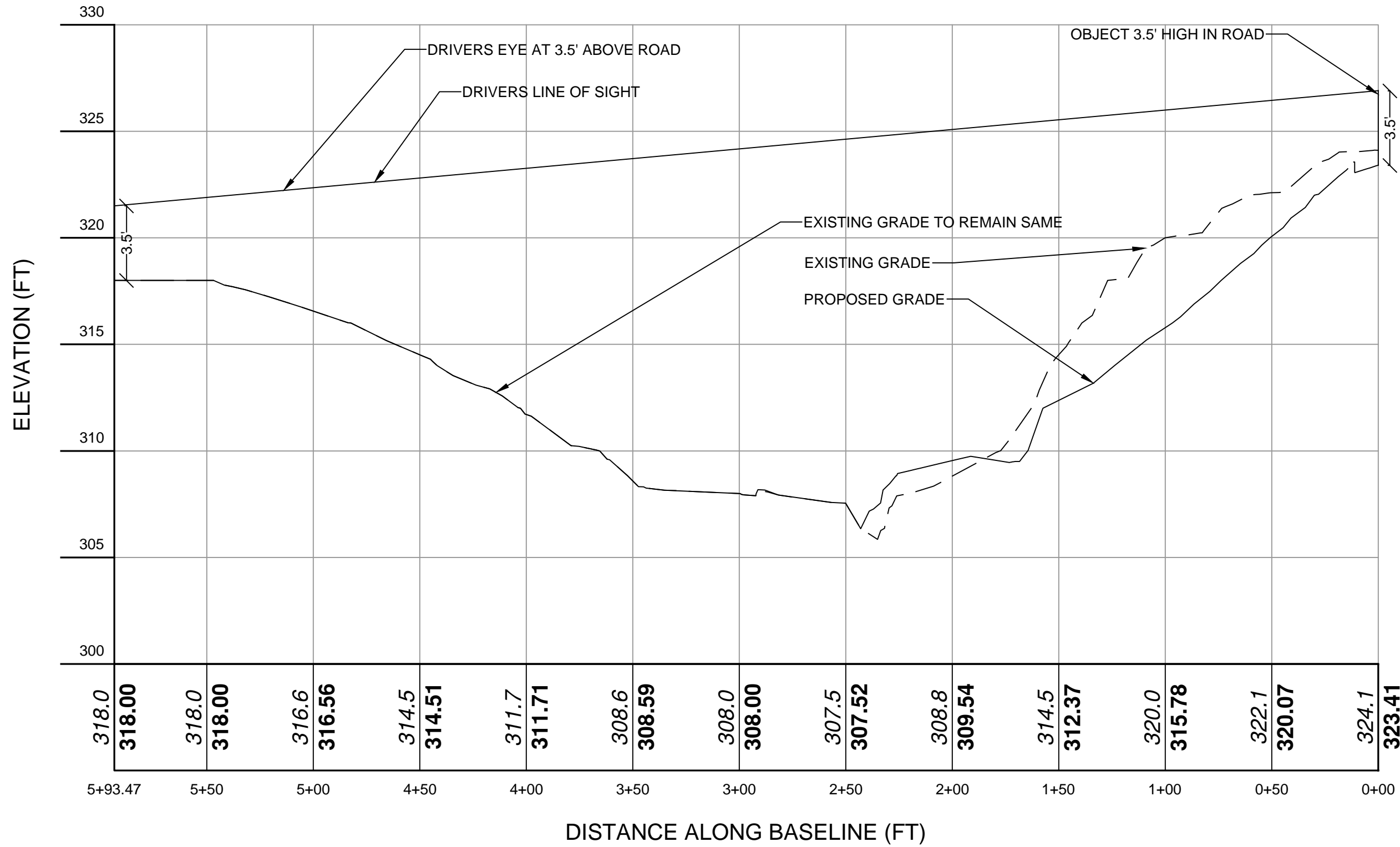
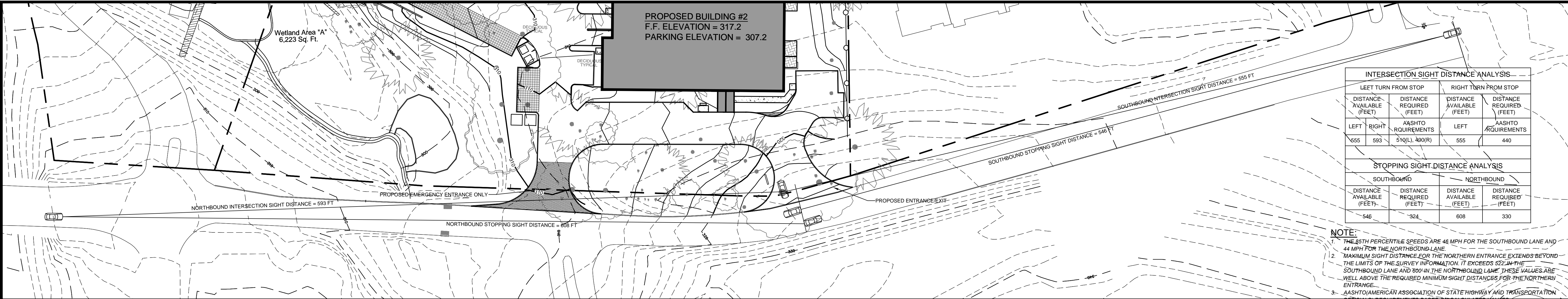
87 HAWKES AVENUE

Westchester County, NY

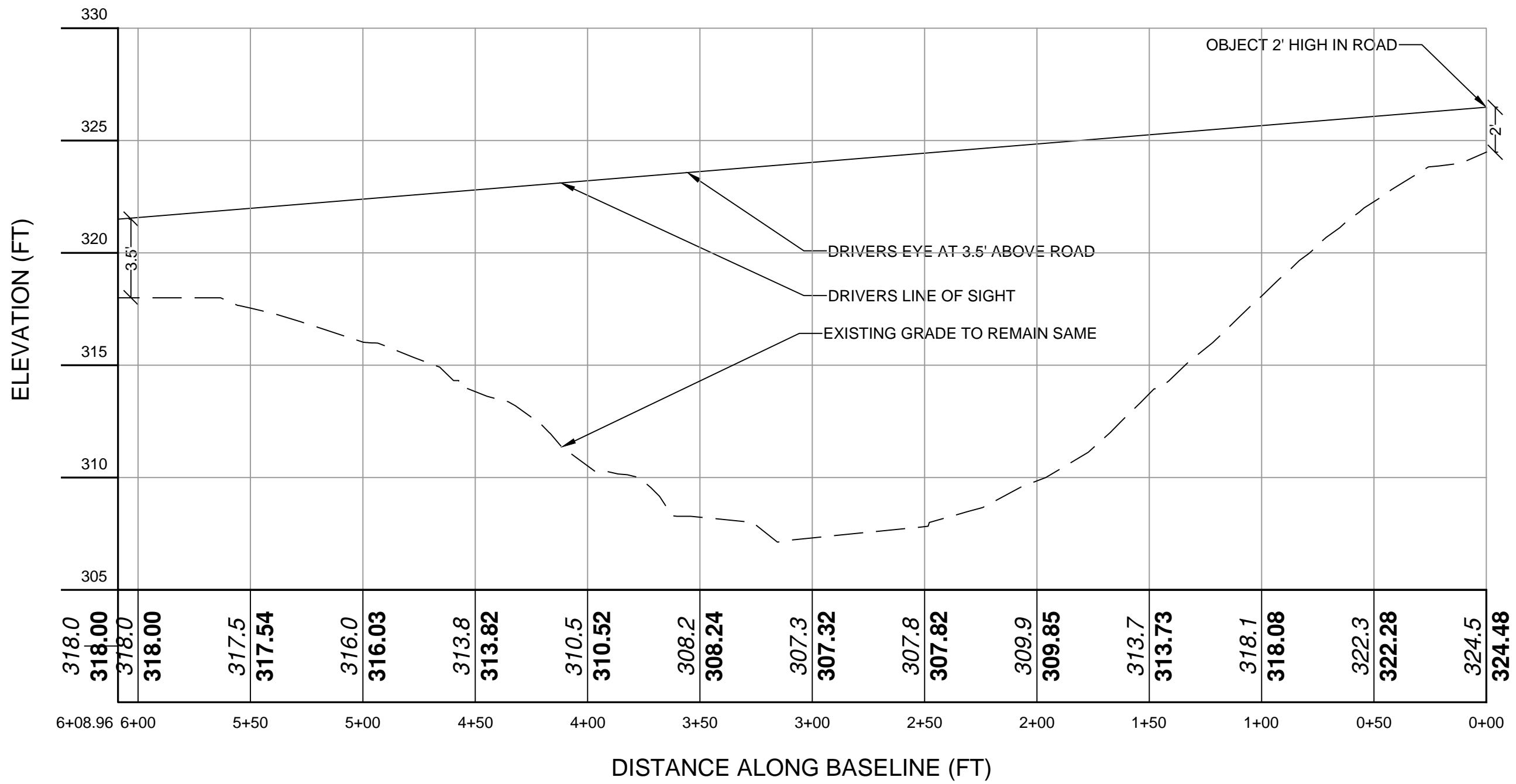
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C-106

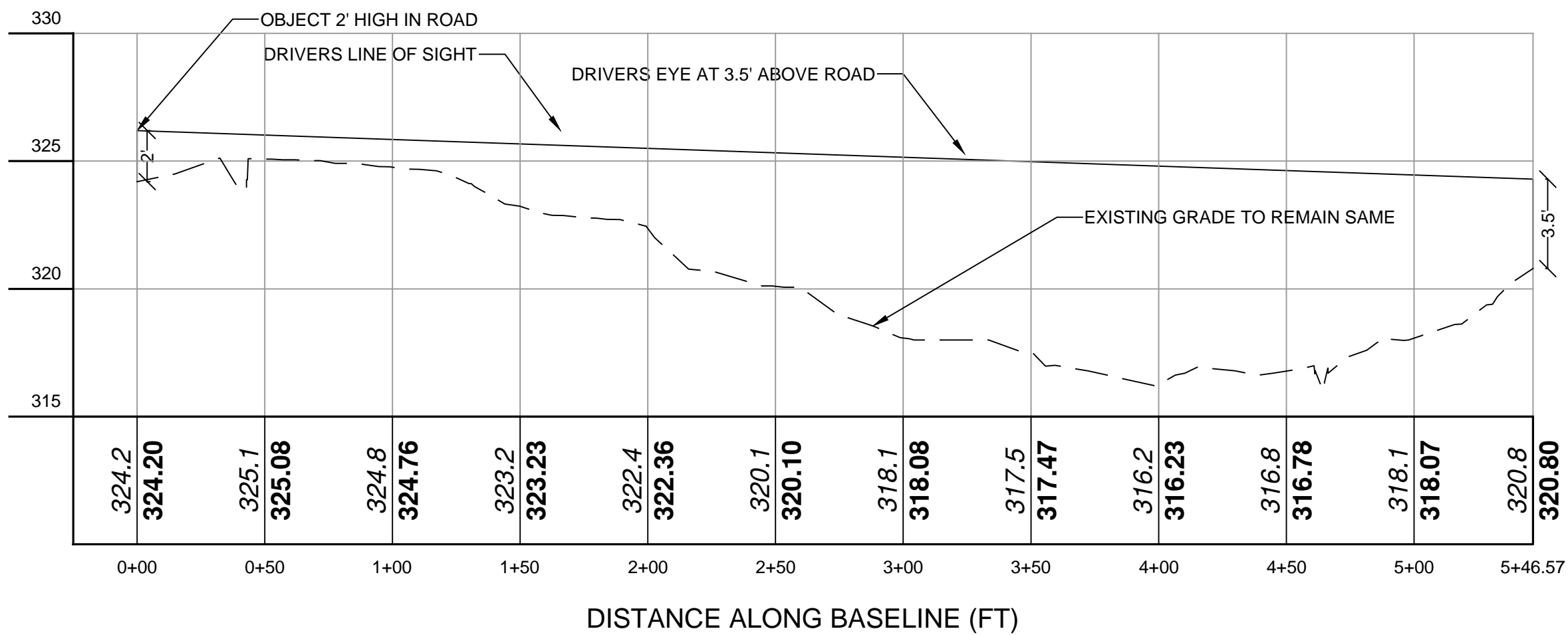
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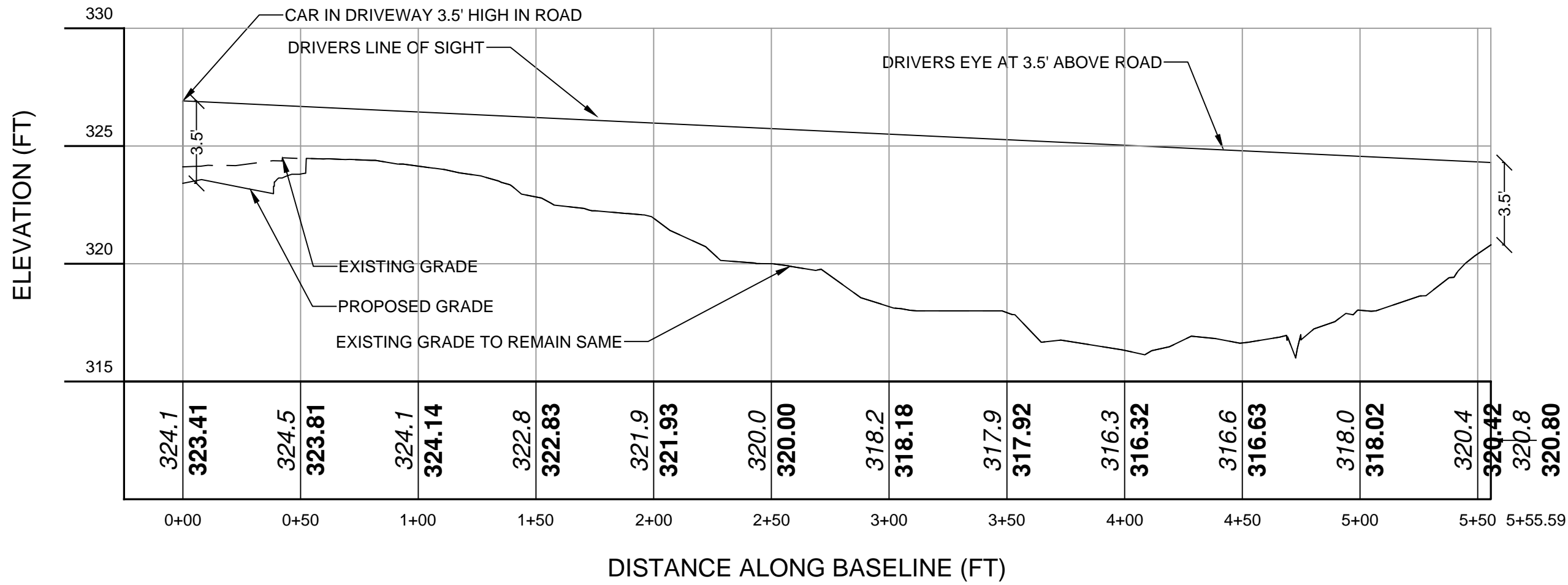
North Entrance Northbound Intersection Sight Distance
PROFILE SCALE:
HORIZ: 1"=50'
VERT: 1"=5'



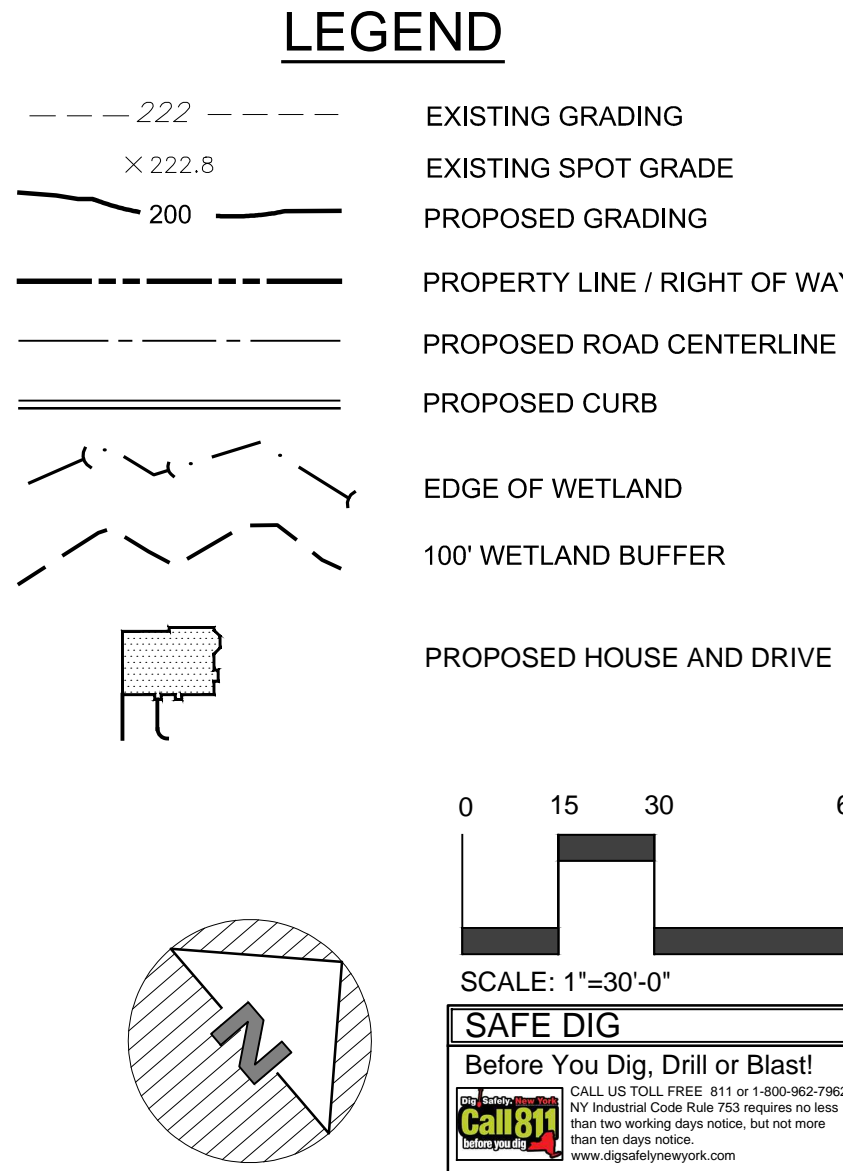
North Entrance Northbound Stopping Sight Distance
PROFILE SCALE:
HORIZ: 1"=50'
VERT: 1"=5'



North Entrance Southbound Stopping Sight Distance
PROFILE SCALE:
HORIZ: 1"=50'
VERT: 1"=5'



Northern Entrance Southbound Intersection Sight Distance
PROFILE SCALE:
HORIZ: 1"=50'
VERT: 1"=5'



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Engineer:

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	7	7/29/16	Site Plan Revisions
	8	9/27/16	Site Plan Revisions

SCALE:

1" = 40'

DRAWN BY:

TK

DATE:

9/25/15

SIGHT DISTANCE PLAN

SITE PLAN
PREPARED FOR

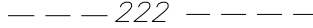
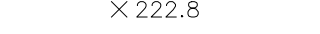
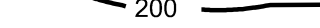

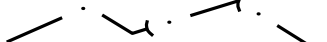
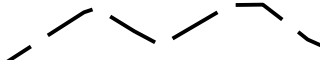
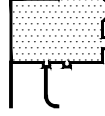


PARTH KNOLLS LLC.

87 HAWKES AVENUE

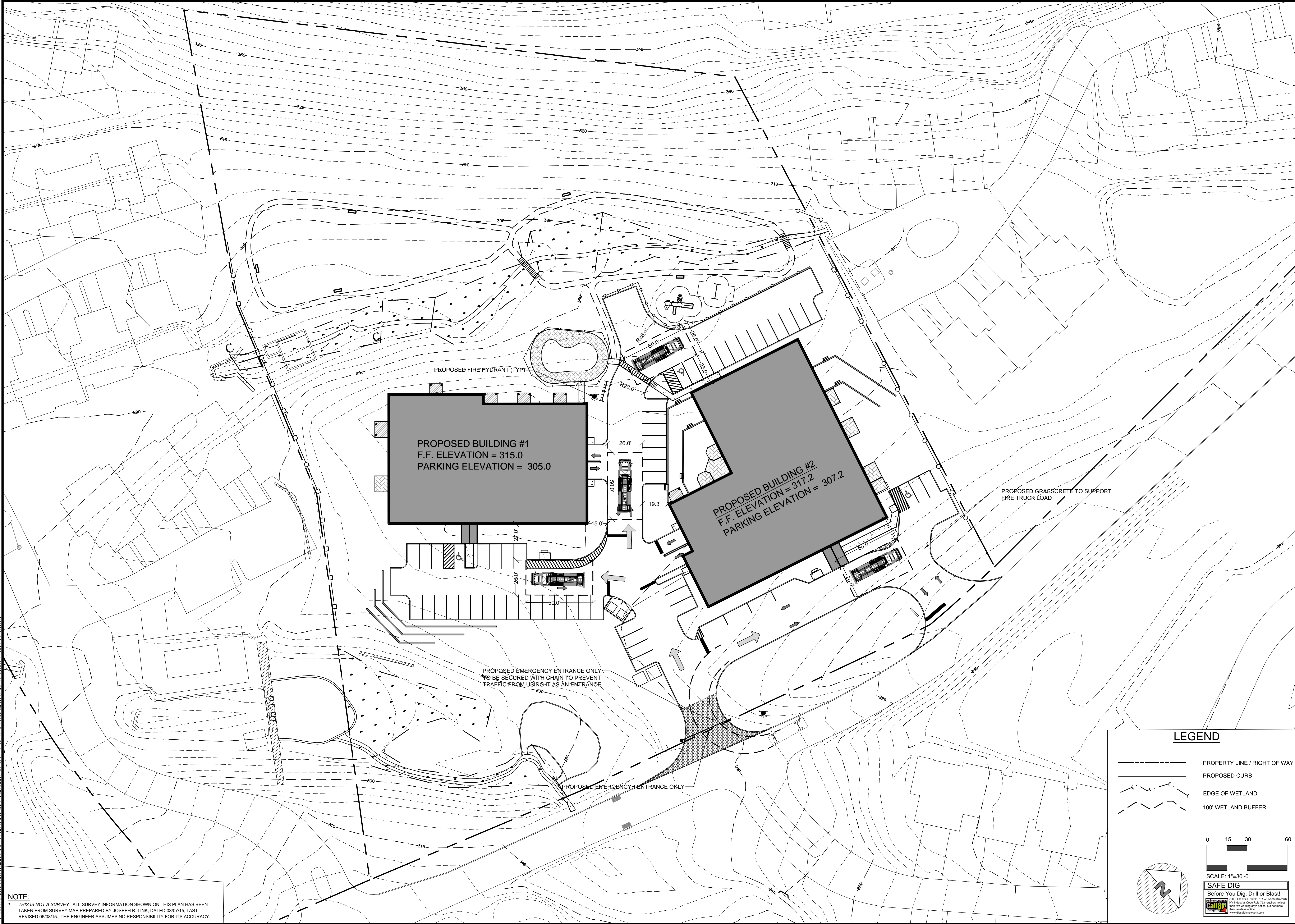
Westchester County, NY

Sheet


C-107

	EXISTING GRADING
	EXISTING SPOT GRADE
	PROPOSED GRADING
	PROPERTY LINE / RIGHT OF WAY
	EDGE OF WETLAND
	100' WETLAND BUFFER
	PROPOSED BUILDING AND DRIVE
	EXISTING TREE TO BE PROTECTED
	EXISTING TREE TO BE REMOVED





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SCALE:

1" = 30'

DRAWN BY:

TK

DATE:

9/25/15

FIRE ACCESS PLAN

SITE PLAN PREPARED FOR

PARTH KNOLLS LLC.

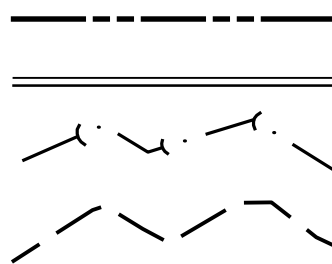
87 HAWKES AVENUE

Town of Ossining

Westchester County, NY

Sheet

C-109



LEGEND

PROPERTY LINE / RIGHT OF WAY

PROPOSED CURB

EDGE OF WETLAND

100' WETLAND BUFFER

0 15 30 60

SCALE: 1"=30'-0"

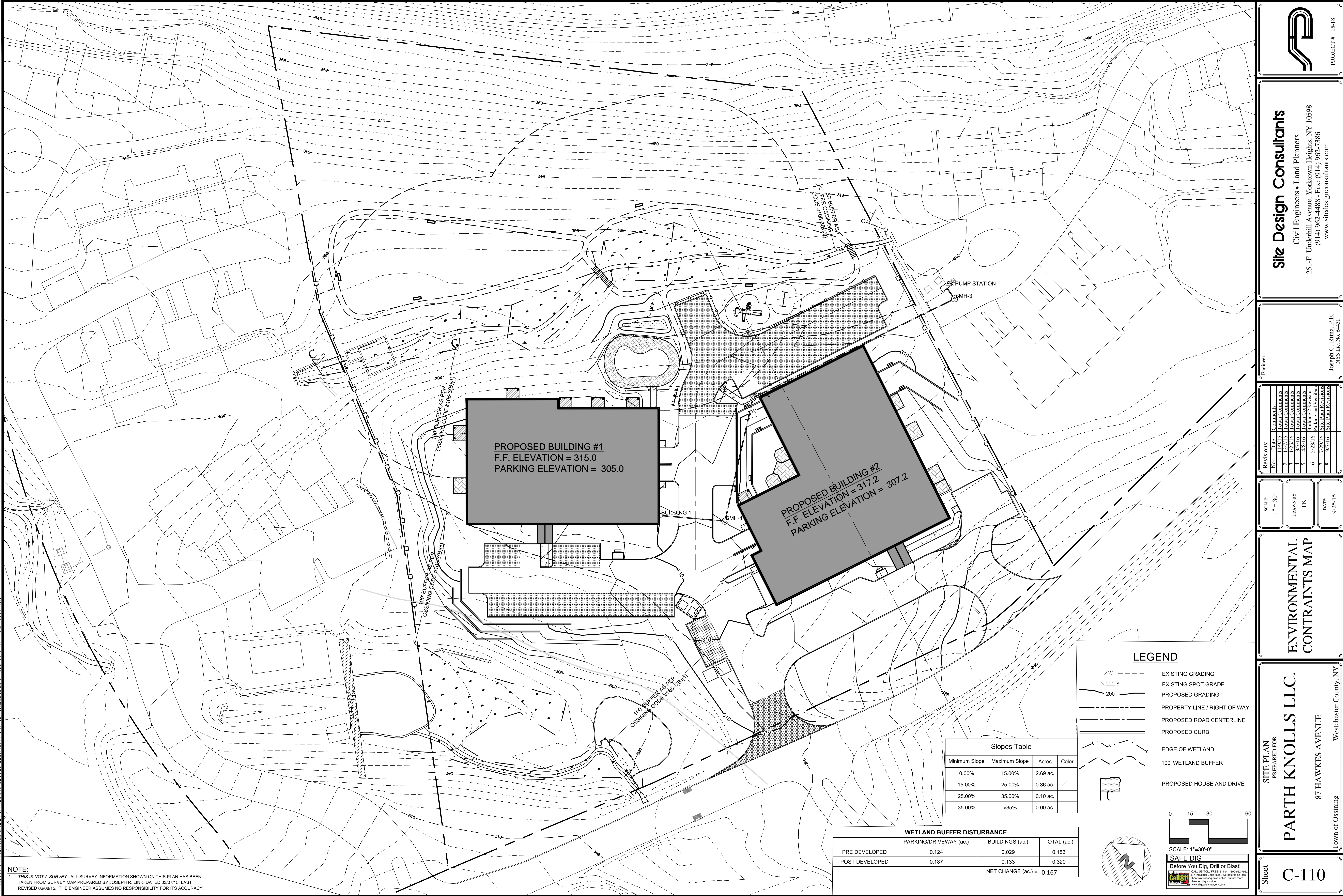
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NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.



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SCALE: 1" = 30'	DRAWN BY: TK	DATE: 9/25/15
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ENVIRONMENTAL CONSTRAINTS MAP

SITE PLAN
PREPARED FOR
PARTH KNOLLS LLC.
87 HAWKES AVENUE
Town of Ossining
Westchester County, NY

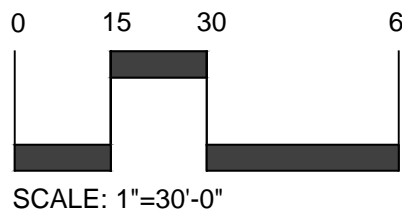
Sheet
C-110

LEGEND

- 222 --- EXISTING GRADING
- x- 222.8 - EXISTING SPOT GRADE
- - - 200 - PROPOSED GRADING
- PROPERTY LINE / RIGHT OF WAY
- PROPOSED ROAD CENTERLINE
- PROPOSED CURB
- - - EDGE OF WETLAND
- - - 100' WETLAND BUFFER
- PROPOSED HOUSE AND DRIVE

Slopes Table			
Minimum Slope	Maximum Slope	Acres	Color
0.00%	15.00%	2.69 ac.	
15.00%	25.00%	0.36 ac.	
25.00%	35.00%	0.10 ac.	
35.00%	>35%	0.00 ac.	

WETLAND BUFFER DISTURBANCE		
	PARKING/DRIVEWAY (ac.)	BUILDINGS (ac.)
PRE DEVELOPED	0.124	0.029
POST DEVELOPED	0.187	0.133
		NET CHANGE (ac.) = 0.167

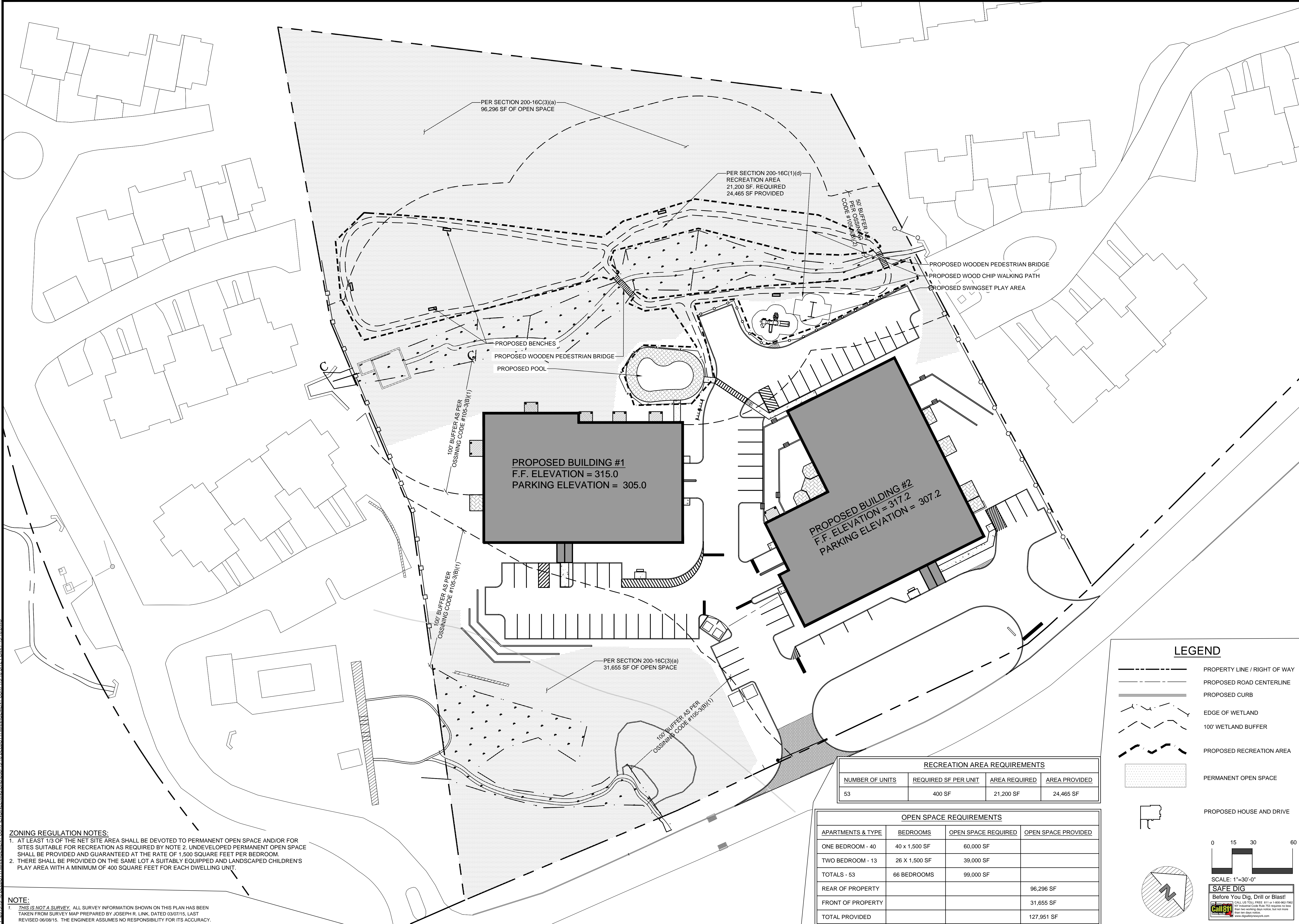


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than ten working days notice, but not more
than ten days notice.
www.digsaferenewyork.com

F:\2015\15-18 BELDOTTI MANAGEMENT CORP\15-18 SITE PLAN\15-18.DWG

ZONING REGULATION NOTES:
1. AT LEAST 1/3 OF THE NET SITE AREA SHALL BE DEVOTED TO PERMANENT OPEN SPACE AND/OR FOR SITES SUITABLE FOR RECREATION AS REQUIRED BY NOTE 2. UNDEVELOPED PERMANENT OPEN SPACE SHALL BE PROVIDED AND GUARANTEED AT THE RATE OF 1,500 SQUARE FEET PER BEDROOM.
2. THERE SHALL BE PROVIDED ON THE SAME LOT A SUITABLY EQUIPPED AND LANDSCAPED CHILDREN'S PLAY AREA WITH A MINIMUM OF 400 SQUARE FEET FOR EACH DWELLING UNIT.

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RECREATION AREA REQUIREMENTS			
NUMBER OF UNITS	REQUIRED SF PER UNIT	AREA REQUIRED	AREA PROVIDED
53	400 SF	21,200 SF	24,465 SF

OPEN SPACE REQUIREMENTS			
APARTMENTS & TYPE	BEDROOMS	OPEN SPACE REQUIRED	OPEN SPACE PROVIDED
ONE BEDROOM - 40	40 x 1,500 SF	60,000 SF	
TWO BEDROOM - 13	26 x 1,500 SF	39,000 SF	
TOTALS - 53	66 BEDROOMS	99,000 SF	
REAR OF PROPERTY			96,296 SF
FRONT OF PROPERTY			31,655 SF
TOTAL PROVIDED			127,951 SF

LEGEND

- PROPERTY LINE / RIGHT OF WAY
- PROPOSED ROAD CENTERLINE
- PROPOSED CURB
- EDGE OF WETLAND
- 100' WETLAND BUFFER
- PROPOSED RECREATION AREA
- PERMANENT OPEN SPACE
- PROPOSED HOUSE AND DRIVE

0 15 30 60

SCALE: 1"=30'-0"

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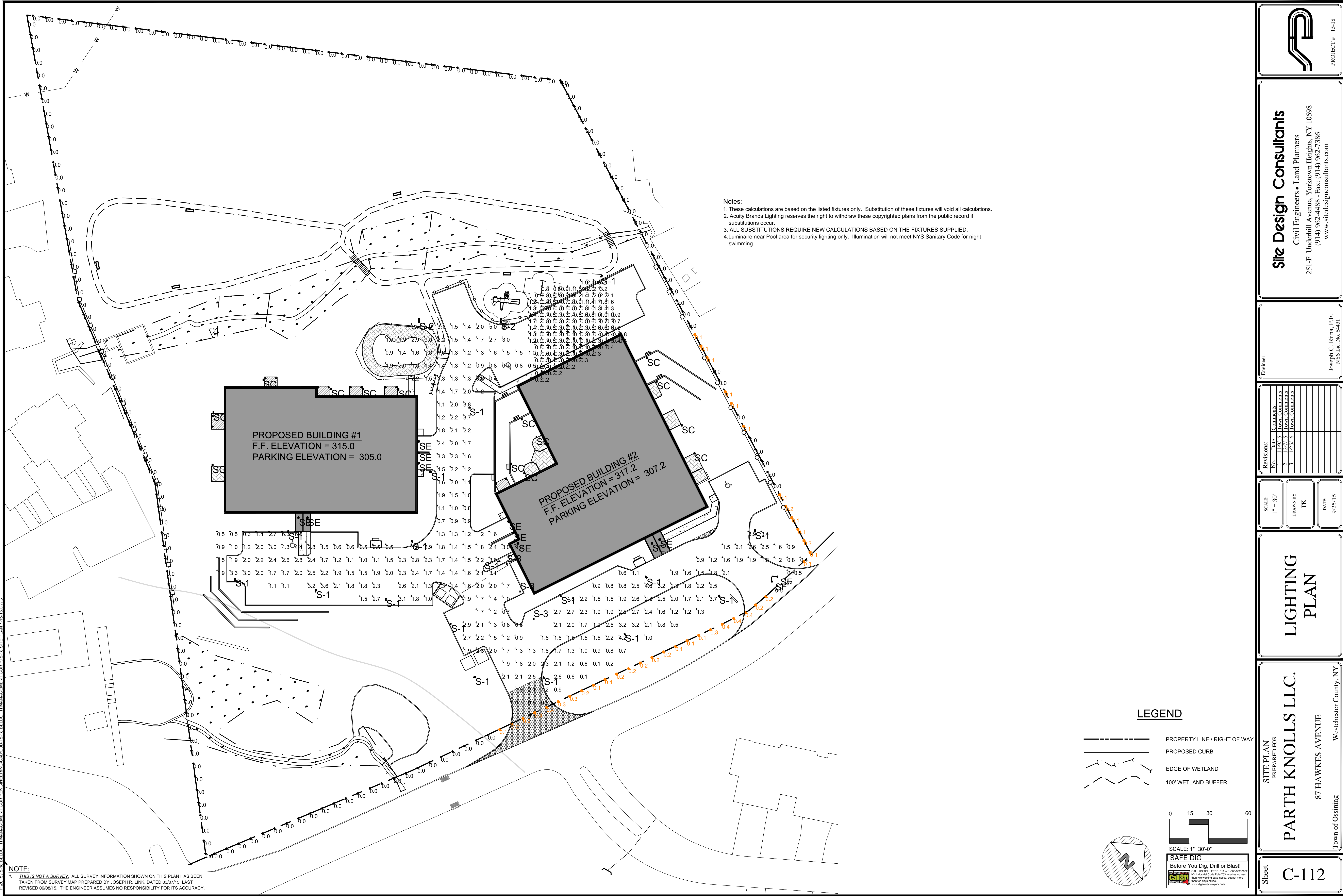
Engineer:
Joseph C. Rinna, P.E.
NYS Lic. No. 64431

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OPEN SPACE AND RECREATION PLAN

SITE PLAN
PREPARED FOR
PARTH KNOLLS LLC.
87 HAWKES AVENUE
Town of Ossining
Westchester County, NY

Sheet
C-111



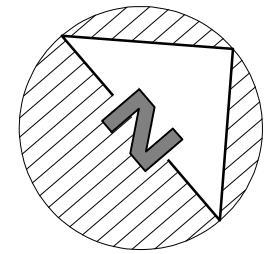
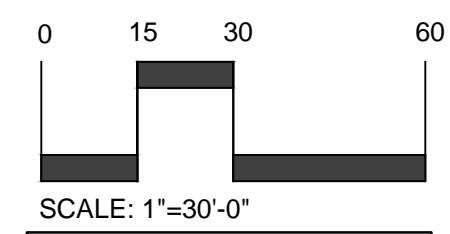
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Notes:
1. These calculations are based on the listed fixtures only. Substitution of these fixtures will void all calculations.
2. Acuity Brands Lighting reserves the right to withdraw these copyrighted plans from the public record if substitutions occur.
3. ALL SUBSTITUTIONS REQUIRE NEW CALCULATIONS BASED ON THE FIXTURES SUPPLIED.
4. Luminaire near Pool area for security lighting only. Illumination will not meet NYS Sanitary Code for night swimming.

LEGEND

- PROPERTY LINE / RIGHT OF WAY
- PROPOSED CURB
- EDGE OF WETLAND
- 100' WETLAND BUFFER



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SCALE: 1" = 30'

DRAWN BY: TK

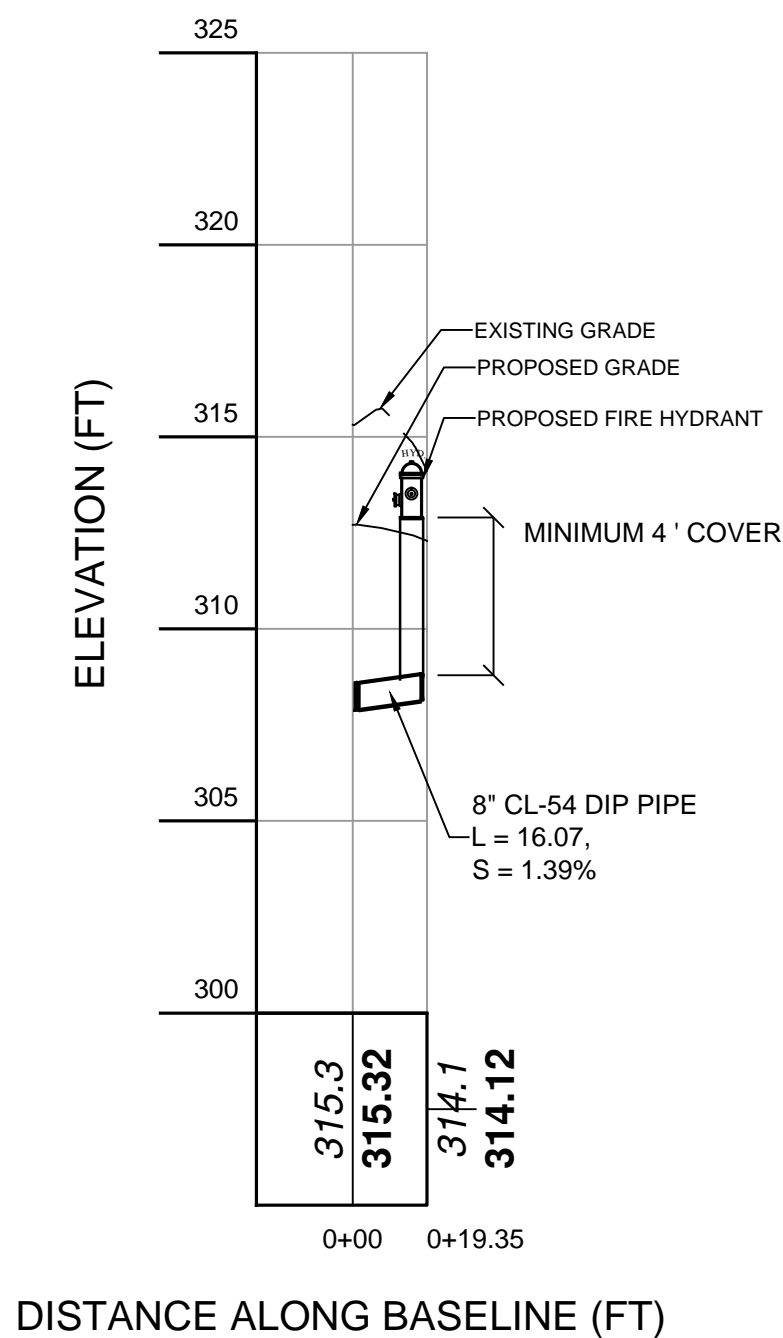
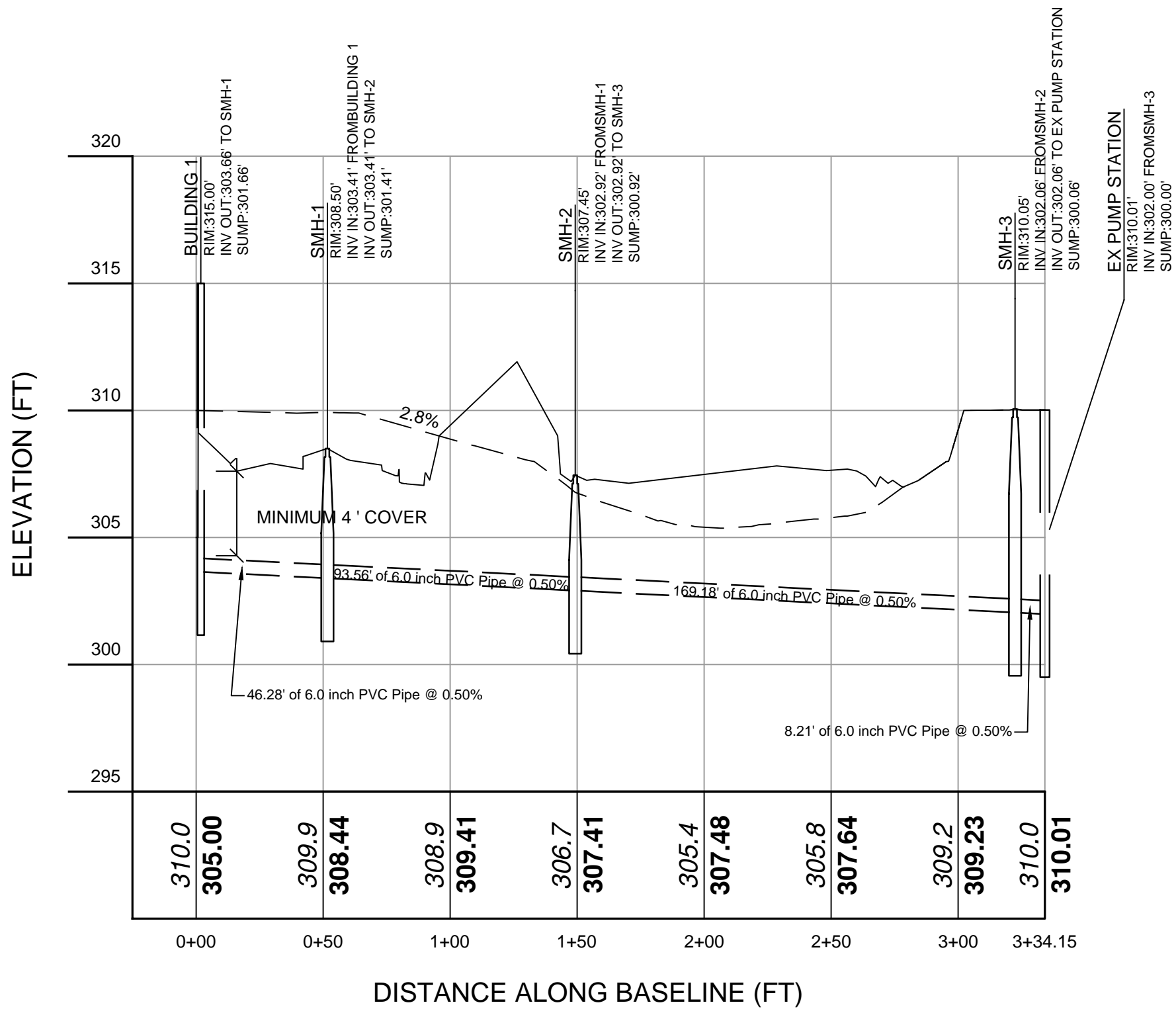
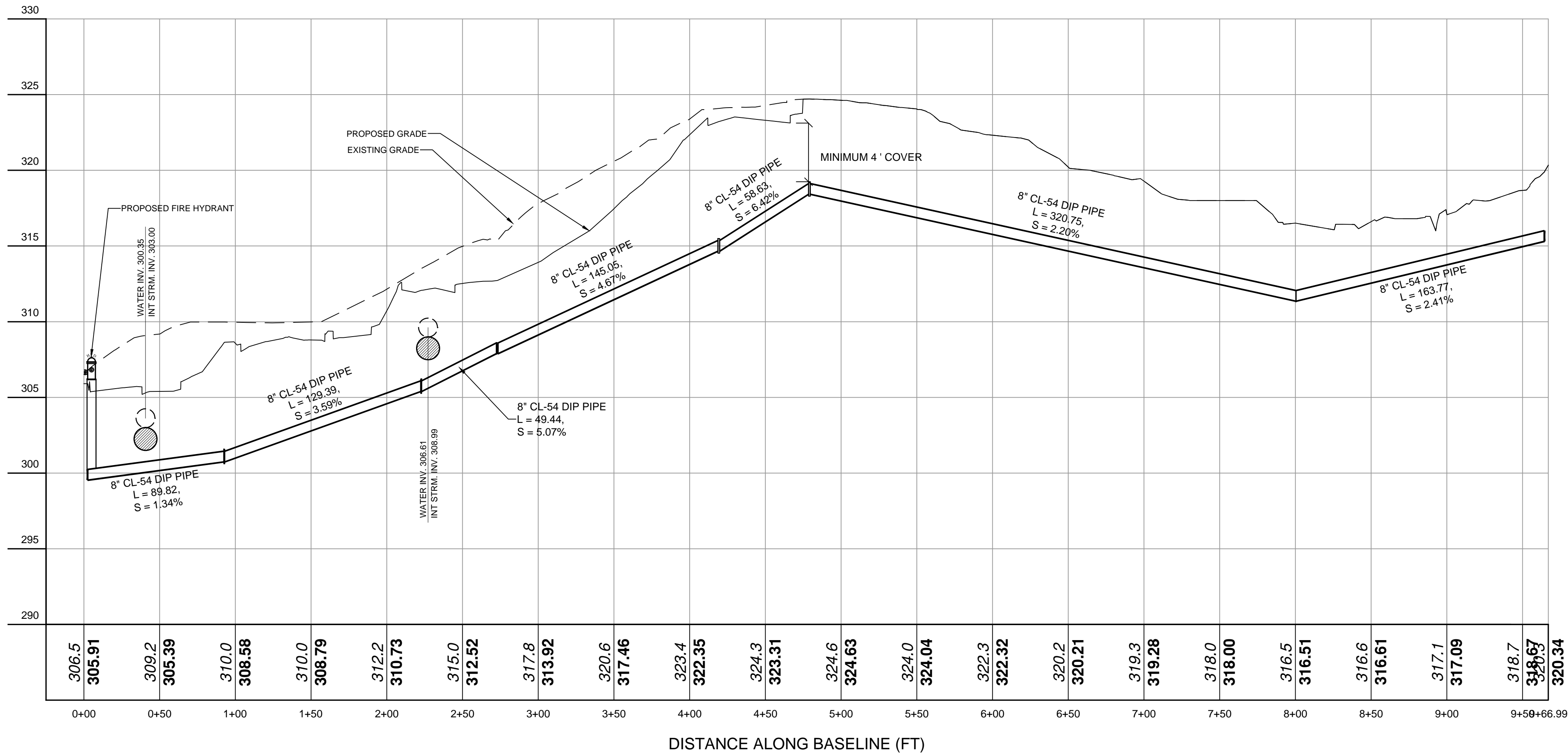
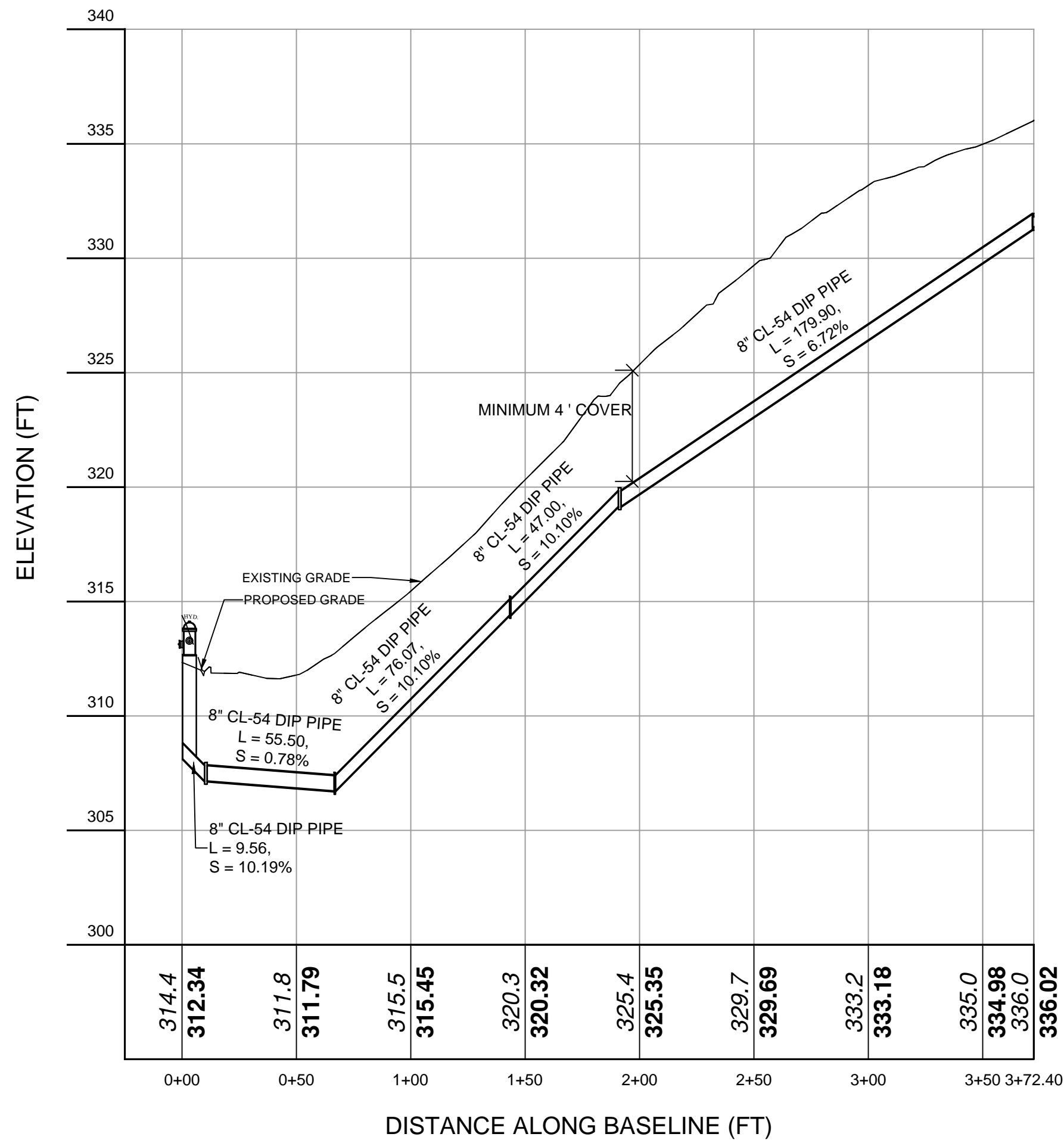
DATE: 9/25/15

LIGHTING PLAN

PARTH KNOLLS LLC.
87 HAWKES AVENUE
Town of Ossining
Westchester County, NY

Sheet **C-112**

E:\2015\15-18 BELDOTT MANAGEMENT CORP\15-18 BELDOTT MANAGEMENT CORP\15-18 SITE PLAN\15-16.DWG



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SCALE:	NTS
DRAWN BY:	TK
DATE:	9/25/15

UTILITY
PROFILES

SITE PLAN
PREPARED FOR
PARTH KNOLLS LLC.

87 HAWKES AVENUE

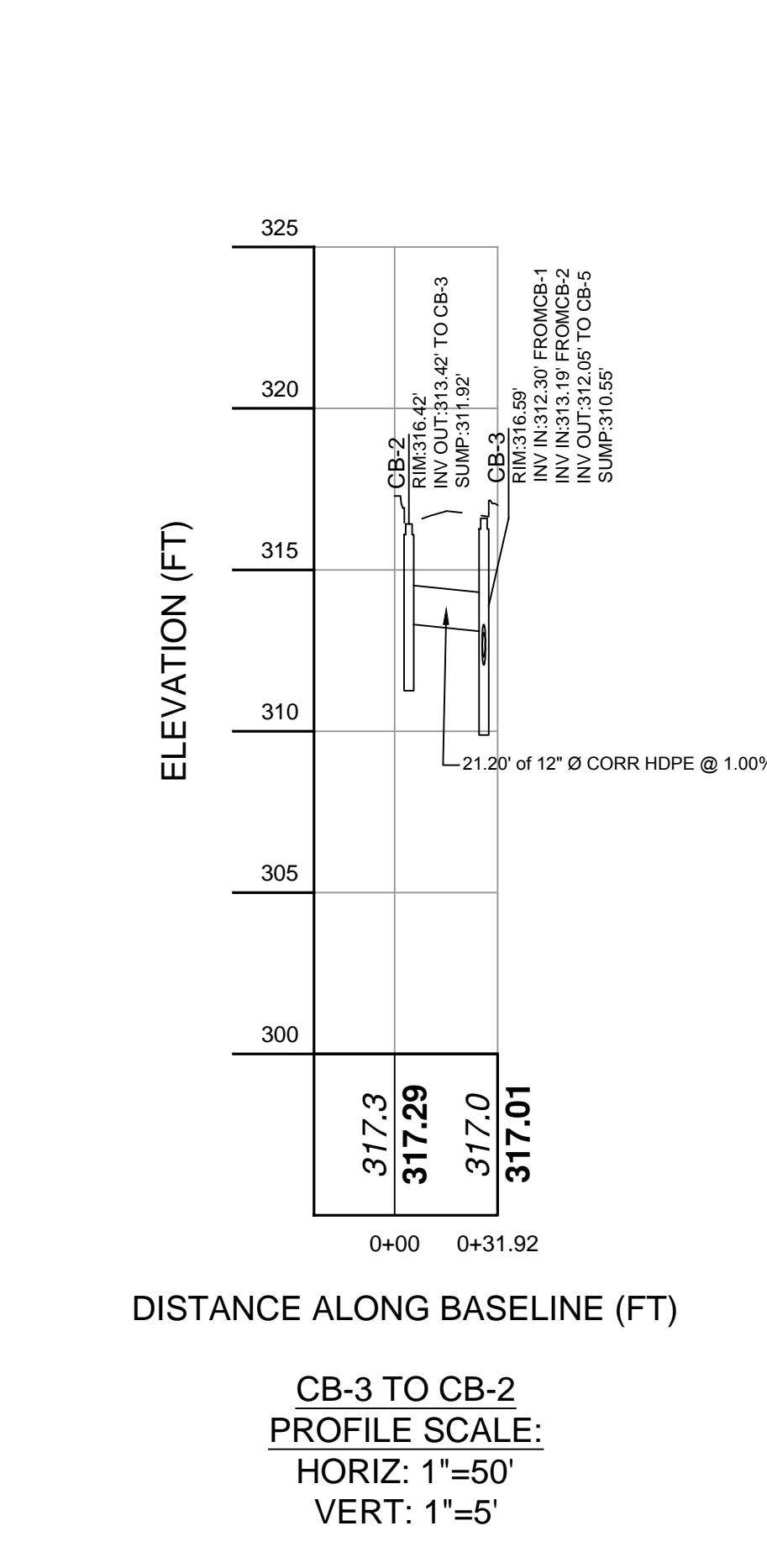
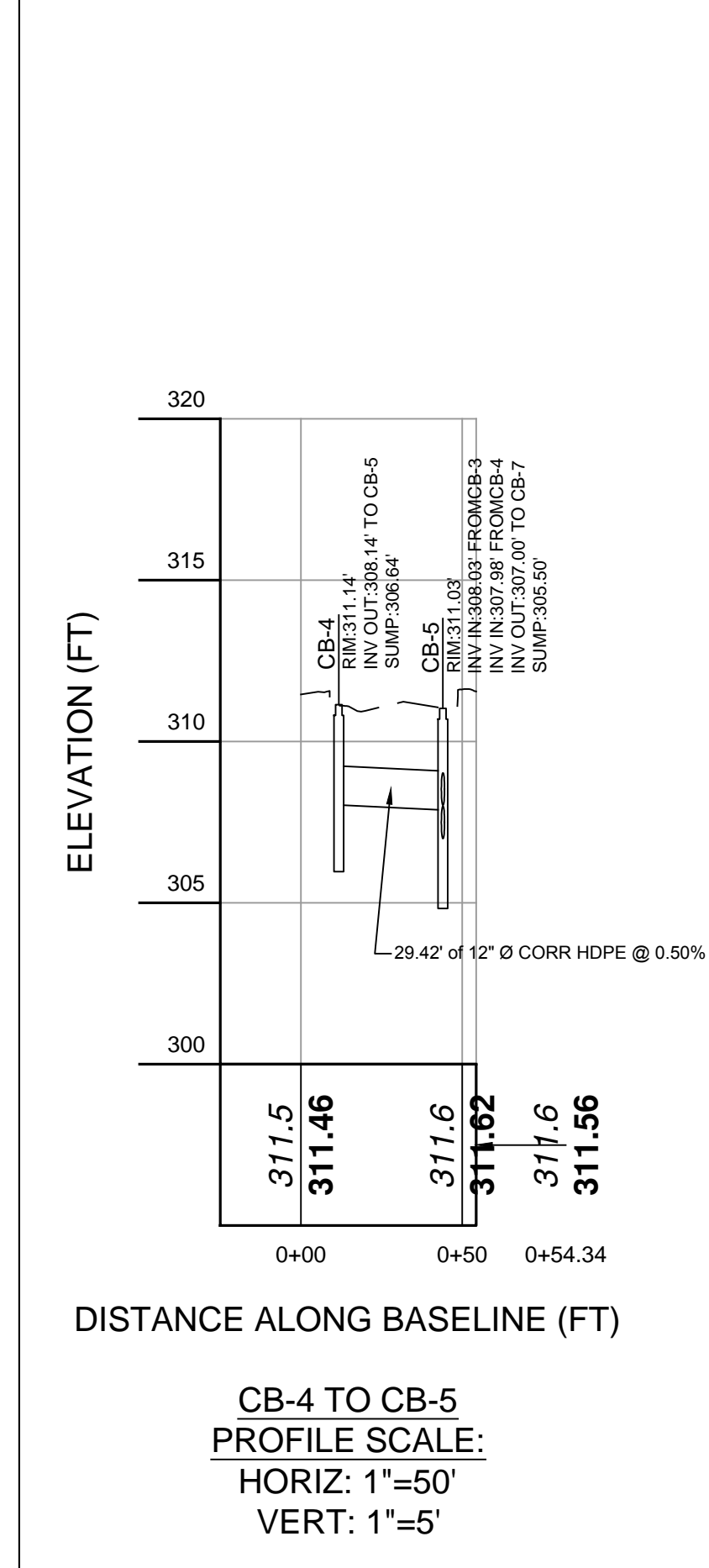
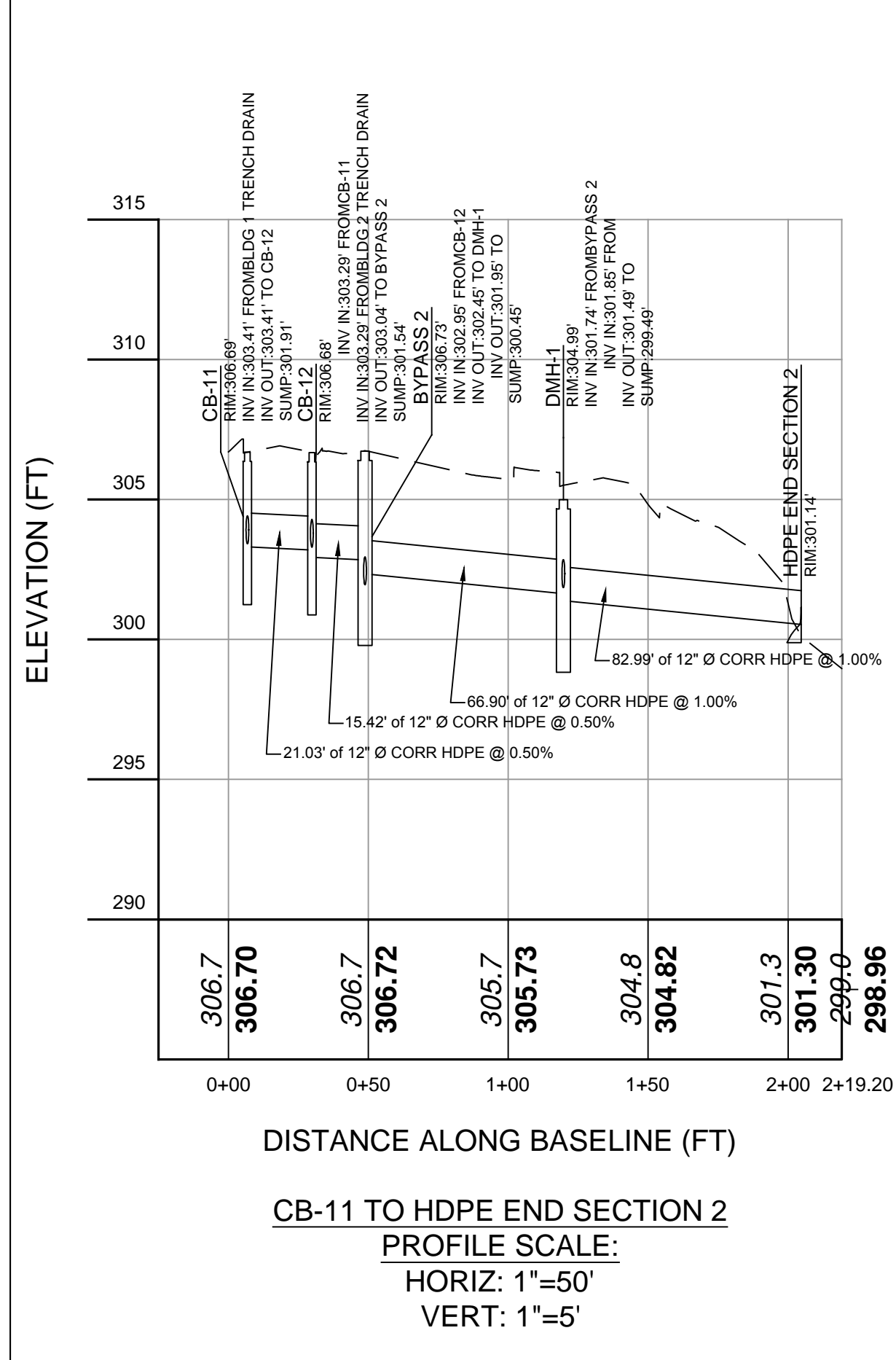
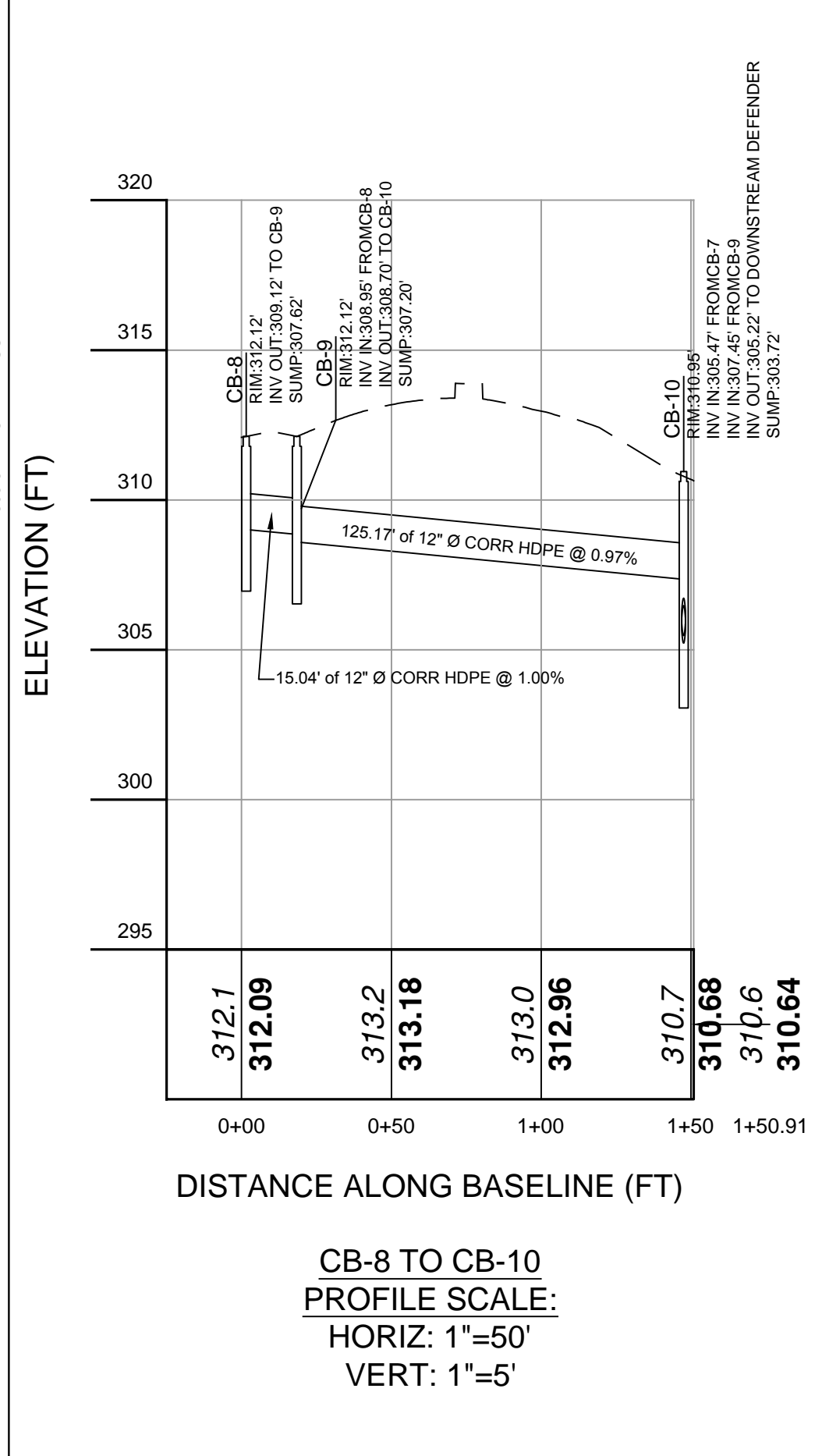
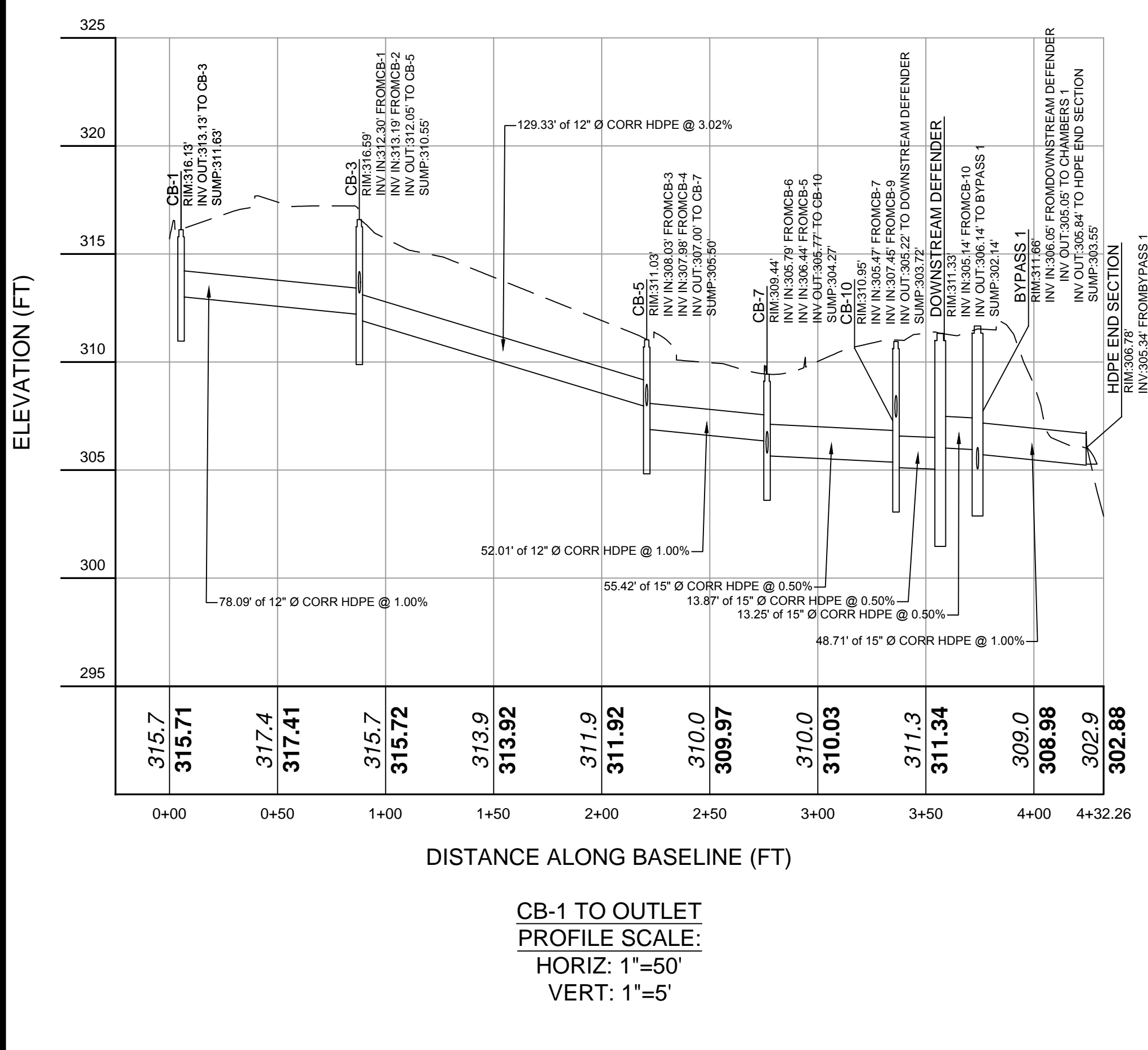
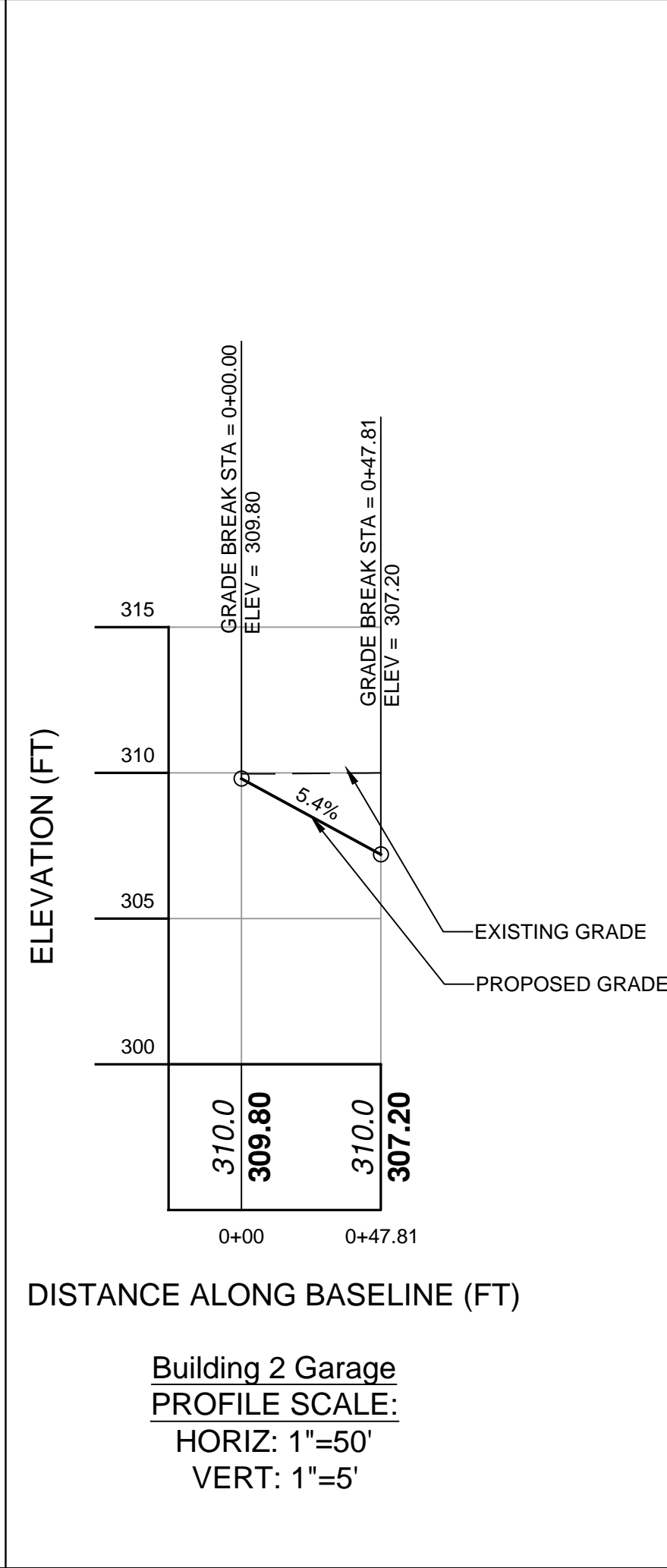
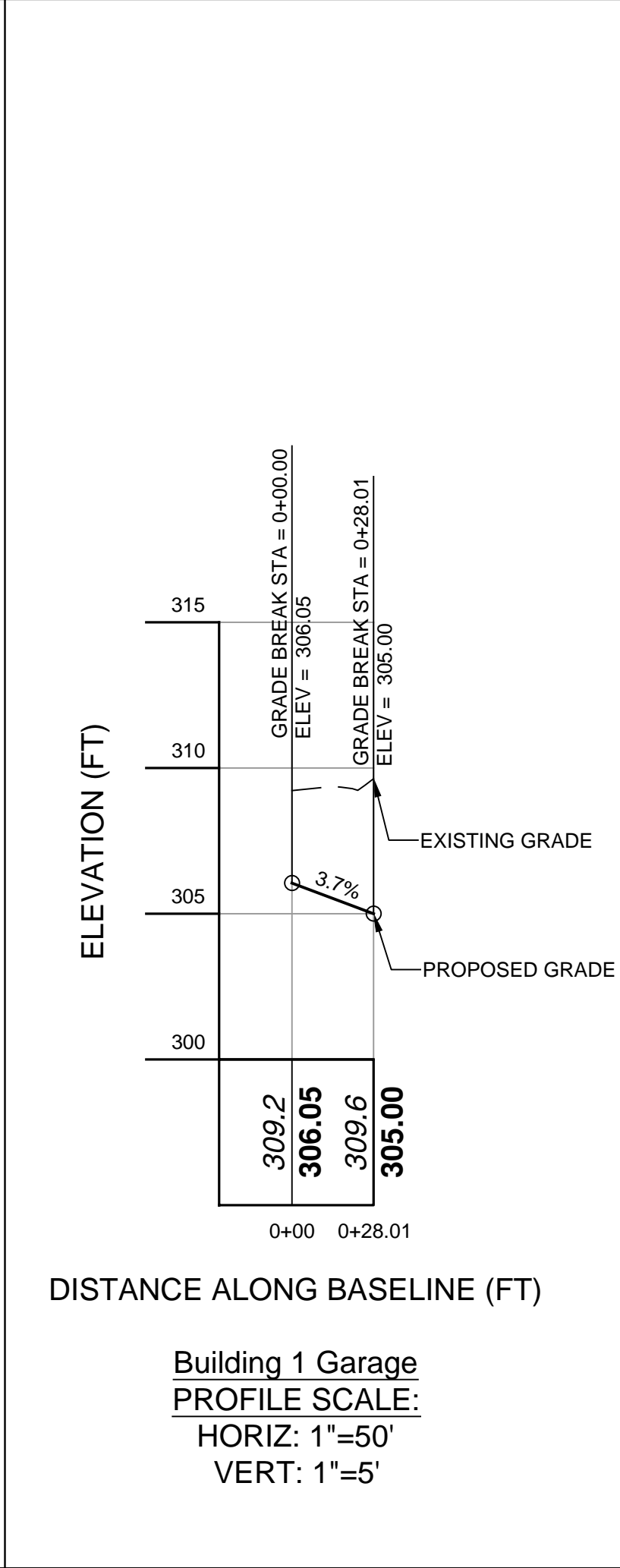
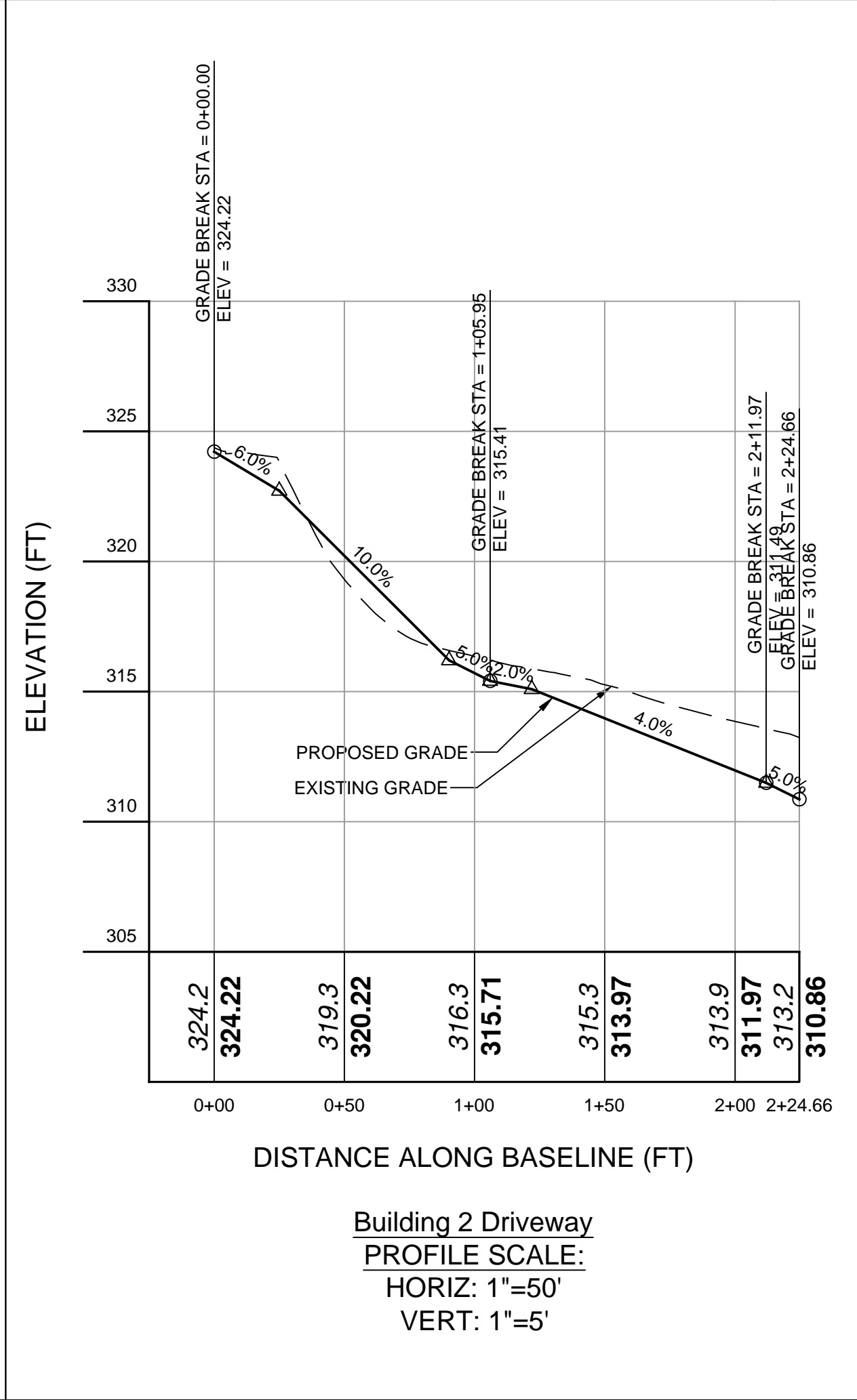
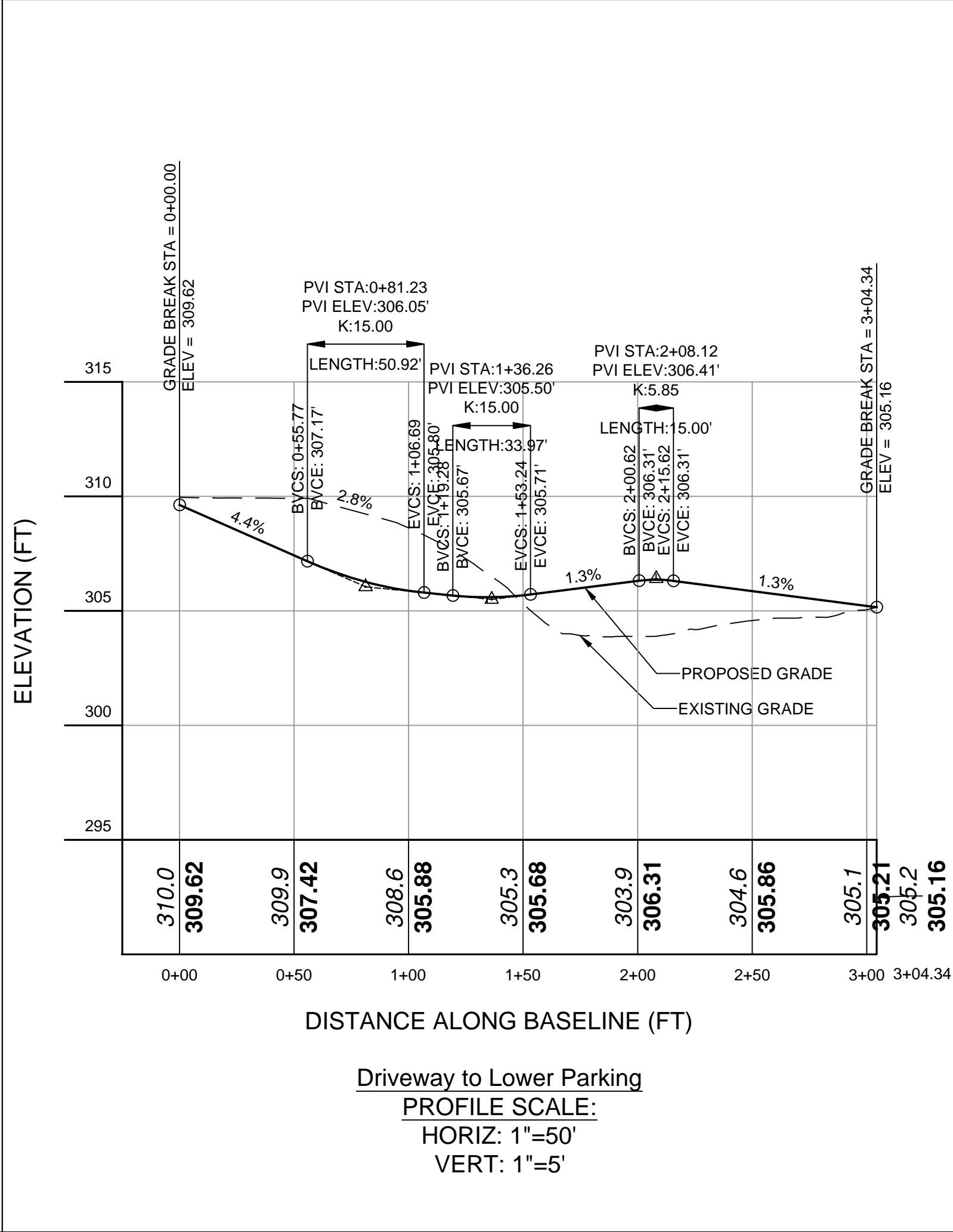
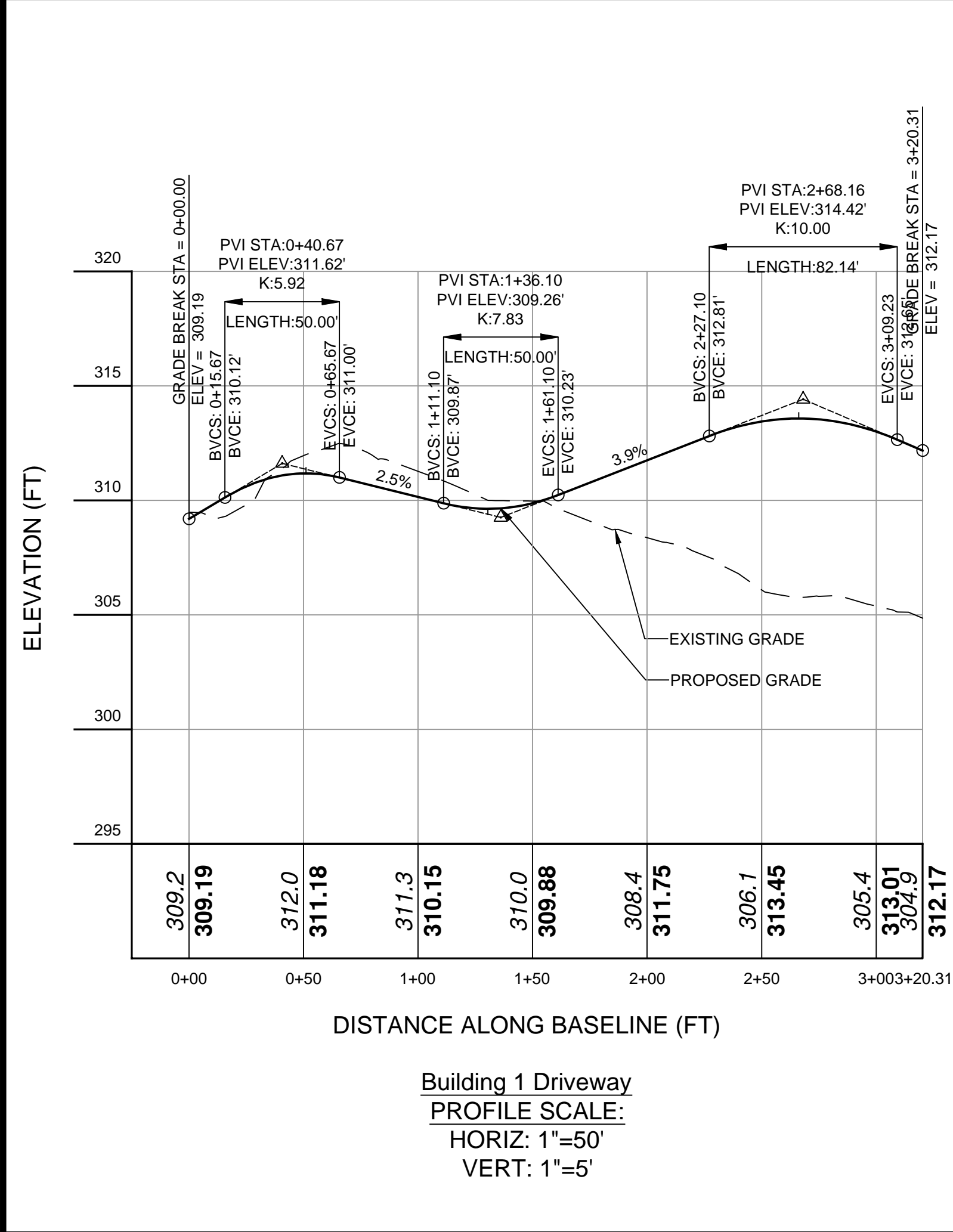
Westchester County, NY

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C-302

SITE PLAN
PREPARED FOR

PARTH KNOLLS LLC.

87 HAWKES AVENUE

Town of Ossining

Westchester County, NY

PROFILES

SCALE:
NTS

DRAWN BY:
TK

DATE:
9/25/15

Revisions:		
No.	Date	Comments
1	11/9/15	Town Comments
2	12/7/15	Town Comments
3	1/25/16	Town Comments
4	3/1/16	Town Comments
5	4/8/16	Town Comments
6	5/23/16	Building 2 Revision -
7	7/29/16	Parking and Vestibule
8	9/7/16	Site Plan Revisions

Engineer:

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PROJECT # 15-18

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GENERAL NOTES:

1. THE ENGINEER WHOSE SEAL APPEARS HEREON HAS NOT BEEN RETAINED FOR SUPERVISION OF CONSTRUCTION. SUBSEQUENTLY, HE IS NOT RESPONSIBLE FOR CONSTRUCTION AND THEREFORE ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION PRACTICES, PROCEDURES, AND RESULTS THEREFROM.
2. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE OR HELD ACCOUNTABLE FOR THE INTEGRITY OF ANY STRUCTURES CONSTRUCTED OR UNDER CONSTRUCTION PRIOR TO THE APPROVAL OF THE PLANS.
3. THE TOWN ENGINEER'S OFFICE AND WATER DISTRICT OFFICE IS TO BE NOTIFIED 24 HOURS BEFORE COMMENCING SITE CONSTRUCTION OR WATER MAIN CONNECTION.
4. ALL WORK IS TO BE IN ACCORDANCE WITH THE TOWN CODE OF PRACTICE AND SPECIFICATIONS.
5. ALL CONDITIONS, LOCATIONS, AND DIMENSIONS SHALL BE FIELD VERIFIED AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES.
6. ALL CHANGES MADE TO THE PLANS SHALL BE APPROVED BY THE ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS. ANY SUCH CHANGES SHALL BE FILED AS AMENDMENTS TO THE ORIGINAL BUILDING PERMIT.
7. ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY SCALED DIMENSIONS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL IN A "CODE 53" PRIOR TO CONSTRUCTION FOR UNDERGROUND UTILITY LOCATIONS. 9. SUBSTRUCTURES AND THEIR ENCROACHMENTS BELOW GRADE, IF ANY, ARE NOT SHOWN.
9. ANY PROPOSED ELECTRIC AND/OR TELEPHONE SERVICE LINES ARE TO BE PLACED UNDERGROUND.
10. THE DESIGN ENGINEER DISCLAIMS ANY LIABILITY FOR DAMAGE OR LOSS INCURRED DURING OR AFTER CONSTRUCTION.
11. ALL CONDITIONS, LOCATIONS AND DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND THE OWNER/ENGINEER NOTIFIED IN WRITING OF ANY DISCREPANCIES PRIOR TO THE START OF WORK. THE OWNER/ENGINEER WILL EVALUATE THE SITUATION AND MODIFY THE PLAN AS NECESSARY.

CONTRACTOR RESPONSIBILITIES:

1. ALL WORK ON THE PROJECT SHALL BE PERFORMED IN A WORKMAN LIKE MANNER AND SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE INDUSTRY. THE OWNER WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE WORK. MATERIALS AND WORK DEEMED UNACCEPTABLE WILL BE REMOVED AND REDONE AT THE SOLE COST AND RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT HIS WORK AND WILL BE HELD RESPONSIBLE FOR CONSEQUENTIAL DAMAGES DUE TO HIS ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS EMPLOYEES AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY THE WORK UNDER A SEPARATE CONTRACT WITH THE CONTRACTOR.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY SHORE EXISTING UTILITIES IF REQUIRED BY CONSTRUCTION.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE THE BUILDING INSPECTOR IN ADVANCE OF HIS WORK OR AS THE INSPECTOR DEEMS APPROPRIATE.
5. ALL CONDITIONS, LOCATIONS AND DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND THE OWNER/ENGINEER NOTIFIED IN WRITING OF ANY DISCREPANCIES PRIOR TO THE START OF WORK. THE OWNER/ENGINEER WILL EVALUATE THE SITUATION AND MODIFY THE PLAN AS NECESSARY.
6. ALL CHANGES MADE TO THIS PLAN SHALL BE APPROVED BY THE ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS. ANY UNAUTHORIZED ALTERATION OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.
7. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THIS WORK UNDER THE CONTRACT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS EMPLOYEES, SUBCONTRACTORS, AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
9. THE CONTRACTOR SHALL VERIFY ALL SUBSTRUCTURES ENCOUNTERED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SECURE & PAY FOR A BUILDERS RISK POLICY TO COVER THE PERIOD OF CONSTRUCTION. THE ENGINEER & OWNER SHALL BE NAMED AS ADDITIONAL INSURED. ALL CONTRACTORS EMPLOYED AT THE SITE SHALL BE COVERED BY WORKMAN'S COMPENSATION.

GENERAL CONSTRUCTION NOTES:

1. BENCH MARKS USING U.S.G.S. DATUM SHALL BE OF SUCH ELEVATION THAT THE GROUND WILL SLOPE AWAY FROM IT IN ALL DIRECTIONS.
2. CONSTRUCTION ACTIVITY SHALL BE LIMITED FROM 8:00 A.M. TO 6 P.M., AND NO CONSTRUCTION ACTIVITY SHALL OCCUR ON SUNDAYS OR LEGAL NEW YORK STATE HOLIDAYS. WHERE BLASTING IS NECESSARY, IT SHALL OCCUR FROM MONDAY THROUGH FRIDAY BETWEEN THE HOURS OF 8:00 A.M. AND 6:00 P.M. NO BLASTING SHALL OCCUR ON HOLIDAYS, SATURDAY OR SUNDAY. ALL BLASTING SHALL ALSO BE COMPLETED IN ACCORDANCE WITH THE TOWN OF OSSINING AND NEW YORK STATE BLASTING ORDINANCES.
3. ANY SOIL THAT IS UNSUITABLE FOR DEVELOPMENT OF BUILDINGS OR ROADWAYS SHALL BE REMOVED FROM THE AREA AND SHALL BE DISPOSED OF WITHIN THE SITE IN NEW EMBANKMENTS WHERE STRUCTURAL LOADING, I.E. A BUILDING OR ROADWAY, WILL NOT TAKE PLACE. WHEN CONSTRUCTION IS PROPOSED TO OCCUR IN SPECIFIC AREAS WHERE SOILS ARE OF QUESTIONABLE SUITABILITY, THE APPLICANT SHALL PROVIDE SOILS ENGINEERING REPORTS AS REQUIRED BY THE PLANNING BOARD ENGINEER, PRIOR TO THE CONSTRUCTION OF ROADWAYS AND, AS REQUIRED BY THE BUILDING INSPECTOR, PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
4. NO TOPSOIL SHALL BE REMOVED FROM THE SITE.
5. ROCK CUT STABILITY IS TO BE FIELD VERIFIED BY GEOTECHNICAL ENGINEER AND SHALL BE MOIDIFIED IF REQUIRED.
6. NO CRUSHING/PROCESSING IS PERMITTED ON THE SITE WITHOUT PRIOR APPROVAL BY THE TOWN OF OSSINING PLANNING BOARD.

GENERAL STORM DRAINAGE & UTILITY NOTES

1. ALL UTILITIES, INCLUDING ELECTRIC LINES, TELEPHONE, WATER, SANITARY SEWER LINES, AND STORM SEWER LINES SHALL BE LOCATED UNDERGROUND AND SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF OSSINING AND THE UTILITY COMPANIES HAVING JURISDICTION.
2. LOCATION OF GAS AND WATER VALVES, ELECTRIC AND TELEPHONE POLES ARE TO BE DETERMINED BY PROPER AUTHORITIES AND APPROVED, AS TO LOCATION, BY THE TOWN ENGINEER.
3. EACH BUILDING CONSTRUCTED HEREON SHALL BE OF SUCH AN ELEVATION THAT THE GROUND WILL SLOPE AWAY FROM IT IN ALL DIRECTIONS. IN THE EVENT THAT THIS IS NOT FEASIBLE, THE CONTRACTOR SHALL INSTALL TYPICAL YARD DRAINS AS REQUIRED AND CONNECT THEM TO THE STORM DRAINAGE SYSTEM OR AS DIRECTED BY THE PROJECT ENGINEER.
4. ROOF LEADERS AND FOOTING DRAINS SHALL EMPTY INTO THE STORM DRAINAGE SYSTEM OR DISCHARGE DIRECTLY TO STORMWATER MANAGEMENT SYSTEMS IF GRADES PERMIT, AND CONNECTION TO THE STORM SYSTEM IS NOT FEASIBLE. FOOTING DRAINS ONLY MAY DISCHARGE TO DAYLIGHT AT THE REAR OF BUILDINGS. FOOTING DRAINS SHALL EXTEND A MINIMUM OF 30 FT. FROM THE REAR FACE OF THE BUILDING WHEN POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE DISCHARGE OF GROUND WATER OR STORM WATER, EITHER BY GRAVITY OR BY PUMPING, BE DISCHARGED TO ANY SANITARY SEWER SYSTEM.
5. ANY REVISIONS AND/OR ADDITIONS TO THE ROAD STORM DRAINAGE SYSTEMS CURRENTLY SHOWN ON THE PLANS WHICH ARE DEEMED NECESSARY DURING CONSTRUCTION MUST BE MADE BY THE CONTRACTOR AS REQUIRED BY THE TOWN AND SHALL BE SHOWN ON THE AS-BUILT DRAWINGS.
6. STORM DRAIN PIPING TO BE HIGH DENSITY POLYETHYLENE AS SHOWN ON THE CONSTRUCTION DRAWINGS. MINIMUM COVER TO BE 2' UNLESS OTHERWISE NOTED.
7. INTERCEPTOR DRAINS ARE TO BE INSTALLED WHERE REQUIRED BY THE TOWN OR PROJECT ENGINEER DURING ROAD CONSTRUCTION.
8. ALL EXISTING UNDERGROUND DRAINS ENCOUNTERED DURING CONSTRUCTION OF PROPOSED ROADS ARE TO BE CONNECTED TO PROPOSED DRAINAGE IMPROVEMENTS. CONNECTIONS TO BE APPROVED BY THE TOWN ENGINEER.
9. PRIOR TO FINAL APPROVAL AND OPERATION OF DRAINAGE SYSTEM, CONTRACTOR SHALL CLEAR ALL ACCUMULATED SEDIMENT AND/OR DEBRIS FROM DRAINAGE STRUCTURES, MANHOLES, CULVERTS, OUTLETS AND DRAIN INLETS. ENGINEER SHALL BE NOTIFIED FOR FINAL INSPECTION.
10. ALL STRUCTURES SHALL BE SET ONE INCH BELOW PAVEMENT.
11. STREET OPENING PERMIT FROM THE TOWN OF OSSINING D.P.W. MAY BE REQUIRED FOR INSTALLATIONS IN PUBLIC ROADS.

WALL NOTES:

1. EXCAVATION IN GENERAL SHALL CONFORM TO THE LINES AND GRADES SHOWN ON THE CONTRACT DRAWINGS.
2. THE ENGINEER SHALL BE NOTIFIED OF UNSUITABLE SUB-GRADE SOILS PRIOR TO PLACEMENT OF WALL.
3. WALLS TO BE CONSTRUCTED ON VIRGIN IN-SITU SOIL SHALL HAVE A MINIMUM ALLOWABLE BEARING CAPACITY OF 2 TSF. ALL OTHER CONDITIONS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
4. TO INSURE A PROPER BEARING SURFACE, THE WALL SHALL BE CONSTRUCTED ON NATURAL IN-SITU SOIL. THE CONTRACTOR SHALL STRIP ALL TOP SOIL. THE AREA SHALL THEN BE COMPACTED USING SUITABLE COMPACTION EQUIPMENT. A MINIMUM OF 3 PASSES SHALL BE MADE.
5. WALLS SHALL NOT BE CONSTRUCTED ON WET OR FROZEN GROUND.
6. SOILS USED AS BACKFILL SHALL CONSIST OF CLEAN DRY SOIL. THE MATERIAL SHALL BE GRANULAR AND FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL. IN GENERAL THE SOIL SHALL BE NON-PLASTIC WITH A PLASTICITY INDEX LESS THAN 5 AND SHALL CONFORM TO THE AASHTO SOIL CLASSIFICATION SYSTEM FOR AN "A-1-A" SOIL. HOWEVER THE MAXIMUM SIZE SHALL BE 6". IN GENERAL ALL FILL SHALL BE APPROVED BY THE ENGINEER PRIOR TO ITS USE. WET MATERIAL OR UNSUITABLE MATERIAL SHOULD NOT BE USED.
7. BACKFILL SHALL BE PLACED AND COMPACTED IN A MAXIMUM 12" LIFTS.
8. ALL BOULDER RETAINING WALLS SHALL HAVE A GEOTEXTILE FABRIC BACKING FOR THE FULL HIEGHT OF THE WALL AS MANUFACTURED BY MIRAFI OR APPROVED EQUAL.
9. IF GROUNDWATER IS ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY TO DETERMINE IF THE ADDITION OF AN UNDERDRAIN MAY BE REQUIRED.
10. THE CONTRACTOR SHALL NOT USE LARGE OR HEAVY CONSTRUCTION EQUIPMENT WITHIN 5' OF THE RETAINING WALLS OR NEW FOUNDATION WALLS. HAND OPERATED COMPACTING EQUIPMENT SHALL BE USED WITHIN 5' OF THE WALL FACE.
11. ALTERNATE WALL DESIGNS MUST BE SEALED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER THE MINIMUM FACTORS OF SAFETY FOR SLIDING AND OVERTURNING SHALL BE 2.0.
12. ALTERNATE WALL DESIGNS MUST BE SEALED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER THE MINIMUM FACTORS OF SAFETY FOR SLIDING AND OVERTURNING SHALL BE 2.0.

WATERMAIN NOTES

I. DISTRIBUTION SYSTEM - WATERMAIN

A. GENERAL

THE CONTRACTOR SHALL PERFORM THE NECESSARY EXCAVATION, BACKFILLING, CLEARING, GRUBBING, SHEETING, SHORING, DO ALL SHAPING OF TRENCHES, PUMPING AND BAILING, LAYING AND JOINING OF ALL PIPES, PROTECT AND SUPPORT EXISTING STRUCTURES AND REPAIR THEM, IF DAMAGED, AND ALL ELSE NECESSARY TO COMPLETE THE WORK.

THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, LABOR, AND TOOLS NECESSARY TO COMPLETE THE WORK IN A SAFE, NEAT, AND WORKMANLIKE MANNER.

B. SITE AND ACCESS CLEARING (WITHIN EASEMENTS)

THE CONTRACTOR SHALL CONFINE ALL CLEARING OPERATIONS TO WITHIN THE IMMEDIATE AREAS THAT ARE ESSENTIAL FOR CONSTRUCTION OF THE WORK.

C. STOCKPILING OF SUITABLE BACKFILL MATERIAL

THE CONTRACTOR SHALL BE PREPARED WHEN EXCAVATING THE TRENCH TO SEPARATE SUITABLE BACKFILL MATERIAL FROM UNSUITABLE MATERIAL FOR USE AS BACKFILL ADJACENT TO THE PIPE.

D. PROTECTION OF EXISTING STRUCTURES AND UTILITIES

SPECIAL PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT OVERHEAD POWER LINES, WATERMAINS, GAS MAINS, ELECTRIC AND TELEPHONE CONDUITS, STORM AND SANITARY SEWERS, CULVERTS, BUILDINGS AND OTHER EXISTING STRUCTURES IN AND NEAR THE EXCAVATION. IN ALL CASES, WHETHER UNDERGROUND STRUCTURES HAVE OR HAVE NOT BEEN DELINEATED, THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE ACCEPTS NO RESPONSIBILITY FOR THEIR LOCATION. "UNDERGROUND UTILITIES" LOCATES EXISTING UNDERGROUND UTILITIES FREE OF CHARGE. THE PHONE NUMBER IS 1-800-245-2828.

GUTTERS, SEWERS, DRAINS AND DITCHES SHALL BE KEPT OPEN AT ALL TIMES FOR SURFACE DRAINAGE. NO DAMMING OR PONDING OF WATER IN GUTTERS OR OTHER WATERWAYS WILL BE PERMITTED EXCEPT WHERE STREAM CROSSINGS ARE NECESSARY AND THEN ONLY TO AN EXTENT WHICH THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE SHALL CONSIDER NECESSARY. THE CONTRACTOR SHALL NOT DIRECT ANY FLOW OF WATER ACROSS OR OVER PAVEMENTS EXCEPT THROUGH APPROVED PIPES OR PROPERLY CONSTRUCTED TROUGHS OF SUCH SIZES AND LENGTHS AS MAY BE REQUIRED, AND PLACE THE SAME AS DIRECTED. THE GRADING IN THE VICINITY OF TRENCHES SHALL BE CONTROLLED SO THAT THE GROUND SURFACE IS PROPERLY PITCHED TO PREVENT WATER RUNNING IN THE TRENCHING. THE CONTRACTOR SHALL NOT COMMENCE OPERATIONS INVOLVING ANY PUBLIC UTILITY BEFORE HAVING GIVEN WRITTEN NOTICE TO THE COMPANY OR OWNER, OR ITS AGENTS, AND SHALL COOPERATE WITH THE COMPANY'S OR OWNER'S FORCES IN PROTECTING AND PREVENTING DAMAGE TO THE PROPERTY.

THE CONTRACTOR WILL, AT HIS OWN EXPENSE, BE RESPONSIBLE FOR DIRECT OR INDIRECT DAMAGE THAT MAY BE DONE TO ANY UTILITY OR STRUCTURE IN THE PROSECUTION OF HIS WORK. THE LIABILITY OF THE CONTRACTOR IS ABSOLUTE AND IS NOT DEPENDENT UPON ANY QUESTIONS OF NEGLIGENCE ON HIS PART OR ON THE PART OF HIS AGENT, OR EMPLOYEES, AND THE NEGLECT OF THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE TO DIRECT THE CONTRACTOR TO TAKE ANY PARTICULAR PRECAUTION OR TO REFRAIN FROM DOING SUCH DAMAGE.

SHOULD THE POSITION OF ANY PIPE, CONDUIT, POLE OR OTHER STRUCTURES, ABOVE OR BELOW THE GROUND, BE SUCH AS TO REQUIRE ITS REMOVAL, REALIGNMENT, OR CHANGE DUE TO WORK TO BE DONE, REALIGNMENT OR CHANGE WILL BE DONE BY OR UNDER SUPERVISION OF THE OWNER OF THE OBSTRUCTIONS. THE CONTRACTOR SHALL UNCOVER AND SUSTAIN THE STRUCTURES, AFTER SUCH REALIGNMENT OR CHANGE.

THE CONTACTOR SHALL NOT INTERFERE WITH ANY PERSONS, OR WITH THE OWNER IN PROTECTING, REMOVING, CHANGING OR REPLACING THEIR PIPES, CONDUITS, POLES OR OTHER STRUCTURES; BUT HE SHALL SUFFER SAID PERSONS OR THE OWNER TO TAKE ALL SUCH MEASURES AS THEY MAY DEEM NECESSARY OR ADVISABLE FOR THE PURPOSE AFORESAID, AND THE CONTRACTOR SHALL THEREBY BE IN NO WAY RELIEVED OF ANY OF HIS RESPONSIBILITIES.

THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE OWNER OF THE RESPECTIVE UTILITY PRIOR TO RELOCATION OR INTERRUPTION OF SERVICE. ALL WORK NECESSARY FOR THE RELOCATION SHALL BE PERFORMED BY THE CONTRACTOR, OR BY THE OWNER AT THE OWNER'S OPTION, AND TO THE SATISFACTION OF THE OWNER. WHERE SERVICE IS INTERRUPTED, THE CONTRACTOR SHALL COOPERATE IN RESTORING SERVICE PROMPTLY. ALL CHARGES FOR DAMAGES DONE TO UTILITIES SHALL BE PAID BY THE CONTRACTOR.

E. CONSTRUCTION OF ROAD RIGHT-OF-WAY

CONSTRUCTION IN THE ROAD RIGHT-OF-WAY SHALL AT ALL TIMES BE PERFORMED WITH MINIMUM DISTURBANCE TO TRAFFIC WITH SUFFICIENT BARRICADES AND DIRECTION. DETOURS CAN BE INSTITUTED WITH APPROVAL OF THE TOWN ENGINEER, WATER SUPERINTENDENT OR AUTHORIZED REPRESENTATIVE OR STATE, COUNTY, OR LOCAL AUTHORITIES. PAVEMENT SHALL BE CUT PRIOR TO REMOVAL. HOLES AND SETTLEMENTS IN THE TRENCHES SHALL BE IMMEDIATELY FILLED TO THE ORIGINAL GRADE ELEVATION WITH THE SPECIFIED MATERIALS.

F. EXCAVATION AND PREPARATION OF TRENCH

THE CONTRACTOR SHALL PROCEED WITH CAUTION IN THE EXCAVATION AND PREPARATION OF THE TRENCH SO THAT THE EXACT LOCATION OF UNDERGROUND STRUCTURES, BOTH KNOWN AND UNKNOWN, MAY BE DETERMINED. THE TRENCH SHALL BE EXCAVATED SO THAT THE PIPE CAN BE LAID TO THE ALIGNMENT AND DEPTH REQUIRED. MINIMUM DEPTH OF COVER FROM SURFACE OF GROUND TO TOP OF PIPE BARREL SHALL BE FOUR FEET (4'). NO TRENCH SHALL BE EXCAVATED MORE THAN FIVE HUNDRED LINEAL FEET (500 LF) IN ADVANCE OF PIPE LAYING, UNLESS AUTHORIZED BY THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE. THE TRENCH SHALL BE SO BRACED AND DRAINED THAT THE WORKMEN MAY WORK THEREIN SAFELY AND EFFICIENTLY. IT IS ESSENTIAL THAT THE DISCHARGE OF THE TRENCH DEWATERING PUMPS BE CONDUCTED TO NATURAL DRAINAGE CHANNELS OR DRAINS, AS IN ACCORDANCE WITH OSHA REQUIREMENTS.

THE WIDTH OF THE TRENCH SHALL BE OF ADEQUATE SIZE TO PERMIT THE PIPE TO BE LAID AND JOINTED PROPERLY, BUT SHALL NOT EXCEED THE SUM OF TWENTY-FOUR INCHES(24") PLUS THE PIPE OUTSIDE DIAMETER, AND THE BACKFILL TO BE PLACED AND COMPACTED AS SPECIFIED.

LEDGE ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A CLEARANCE OF AT LEAST SIX INCHES (6") BELOW AND ON EACH SIDE OF ALL PIPES AND FITTINGS.

THE TRENCH SHALL BE EXCAVATED TO THE DEPTH REQUIRED SO AS TO PROVIDE A UNIFORM AND CONTINUOUS BEARING AND SUPPORT FOR THE PIPE ON SOLID AND UNDISTURBED GROUND AT EVERY POINT. WHERE THE BOTTOM OF THE TRENCH AT A SUBGRADE IS FOUND TO BE UNSTABLE, OR TO INCLUDE ASHES, CINDERS, ALL TYPES OF REFUSE, VEGETABLE OR OTHER ORGANIC MATERIAL OR LARGE PICES OF FRAGMENTS OR INORGANIC MATERIAL WHICH IN THE JUDGEMENT OF THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE SHOULD BE REMOVED, THE CONTRACTOR SHALL EXCAVATE AND REMOVE SUCH UNSUITABLE MATERIAL TO THE WIDTH AND DEPTH ORDERED BY THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE.

ANY PART OF THE BOTTOM OF THE TRENCH EXCAVATED BELOW THE SPECIFIED GRADE SHALL BE CORRECTED WITH APPROVED BEDDING MATERIAL, SUCH AS THOROUGHLY COMPACTED CRUSHED STONE, GRAVEL, OR CONCRETE AS DIRECTED BY THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE. THE FINISHED SUBGRADE SHALL BE PREPARED ACCURATELY BY MEANS OF HAND TOOLS.

GENERAL WATER MAIN NOTES:

1. ALL PROPOSED WATERMAIN MATERIALS, CONSTRUCTION AND INSTALLATION SHALL CONFORM TO ALL APPLICABLE RULES AND REGULATIONS OF THE TOWN OF OSSINING WATER DEPARTMENT AND THE WESTCHESTER COUNTY HEALTH DEPARTMENT STANDARDS AND SPECIFICATIONS.
2. THE RECORDS OF THE TOWN OF OSSINING INDICATE THAT THERE IS ADEQUATE WATER PRESSURE AND CAPACITY AS REQUIRED TO SERVE THIS PROJECT.
3. ALL BACKFLOW PREVENTION DEVICES ASSOCIATED WITH THE FIRE AND DOMESTIC SERVICES FOR EACH OF THE PROPOSED OFFICE SPACES IN THE TYPE "B" UNITS SHALL BE LOCATED INTERNAL TO THE BUILDING AND SHALL REQUIRE SEPARATE APPROVAL BY THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
4. ALL FIRE AND DOMESTIC SERVICE CONNECTIONS FROM THE PROPOSED WATER MAIN SHALL BE INSTALLED WITH WET TAPS AFTER THE CONTRACTOR HAS INSTALLED THE MAIN AND IT HAS BEEN APPROVED BY THE TOWN OF OSSINING WATER DEPARTMENT AND THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
5. THE CONTRACTOR IS ADVISED THAT BEFORE HE CONNECTS TO THE EXISTING WATER SYSTEM, HE MUST ADVISE AND COORDINATE HIS OPERATIONS WITH THE TOWN OF OSSINING WATER DEPARTMENT'S SUPERINTENDENT. MEANS AND METHODS USED TO CONNECT TO THE EXISTING SERVICE SHALL BE APPROVED BY THE TOWN AND SHALL INCLUDE BUT NOT BE LIMITED TO WET TAPS OR OTHERWISE.
6. THE CONTRACTOR IS TO MAINTAIN CONSTANT FLOW AND PRESSURE IN ALL WATER MAINS AT ALL TIMES. IF THE NEED SHOULD ARISE THAT WATER SERVICE IS TO BE INTERRUPTED FOR A SHORT PERIOD, IT MUST BE COORDINATED WITH AND APPROVED BY THE ENGINEER AND THE TOWN OF OSSINING SUPERINTENDENT OF WATER.
7. WATER MAINS CROSSING HOUSE SEWERS, STORM SEWERS OR SANITARY SEWERS SHALL BE LAID TO PROVIDE A VERTICAL SEPARATION OF A MINIMUM OF 18" BETWEEN THE BOTTOM OF WATER MAIN AND TOP OF SEWER.
8. WATER MAINS PASSING UNDER HOUSE SEWERS, IN ADDITION, SHALL BE PROTECTED BY PROVIDING A VERTICAL SEPARATION OF 18" MINIMUM FROM THE BOTTOM OF THE SEWER TO THE TOP OF THE WATER MAIN AND ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF THE JOINTS AND THE SEWER SETTTLING AND BREAKING THE WATER MAIN. IN ADDITION THE LENGTH OF WATER PIPE IS TO BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER. NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER OR SEWER MANHOLE.
9. THE COVER OVER THE TOP OF THE WATER MAIN SHALL BE A MINIMUM OF 4 FEET TO A MAXIMUM OF 5.5 FT.
10. WATER MAINS SHALL BE CLASS 54 DUCTILE IRON PIPES (DIP) TYTON JOINT TYPE AND FITTINGS SHALL BE FACTORY CEMENT LINED CLASS 54. ALL FITTINGS SHALL HAVE MECHANICAL JOINTS AND SHALL BE PRESSURE RATED AT 250 PSI. ALL NECESSARY JOINT MATERIALS SHALL BE FURNISHED. WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH AWWA STANDARDS, LATEST REVISION.
11. ALL GATE VALVES SHALL BE MUELLER RESILIENT WEDGE (TURN LEFT OPEN) TYPE AND SHALL MEET AWWA STANDARDS, LATEST REVISION.
12. ALL SERVICE CONNECTIONS AND SMALL DIAMETER EXTENSIONS SHALL CONFORM TO AWWA C-151.
13. RETAINER GLANDS AND CONCRETE THRUST BLOCKS OR RODS SHALL BE USED AT ALL LOCATIONS WHERE RESTRAINTS EXIST.
14. INSTALLATION AND TESTING OF THE WATER MAIN SHALL BE INSPECTED BY THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH. THE CONTRACTOR SHALL PROVIDE THE HEALTH DEPARTMENT A MINIMUM 48 HOURS NOTICE PRIOR TO ANY PRESSURE/LEAKAGE TESTS AND/OR DISINFECTION AND BACTERIOLOGICAL TESTS PERFORMED ON THE PROPOSED WATER MAIN. THE RESULTS OF THE ABOVE TESTS MUST BE ACCEPTED BY THE WCHD PRIOR TO USE OF THE MAIN.
15. ASBUILT DRAWINGS SHALL SHOW DIMENSIONS BETWEEN ALL VALVE TURNING NUTS AND FINISH GRADE.
16. INSTALLATION, DISINFECTION AND TESTING TO BE WITNESSED AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER OR TOWN OF OSSINING ENGINEER.
17. ALL HYDRANTS AND VALVES SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY.
18. THE FINAL LOCATIONS OF FIRE HYDRANTS AND SIAMESE CONNECTIONS SHALL BE DETERMINED BY AND COORDINATED WITH THE TOWN OF OSSINING FIRE DEPARTMENT.
19. IF, DURING CONSTRUCTION, IT IS FOUND THAT THE REQUIRED SEPARATION OF WATER MAINS, SANITARY SEWERS, STORM SEWERS, AND BUILDING SEWERS CANNOT BE MET, THE DEVELOPER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONTACT THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH. APPROVAL BY THE WCHD IS REQUIRED PRIOR TO ANY FIELD CHANGES THAT WILL AFFECT MINIMUM WATER/SEWER SEPARATION DISTANCES.
20. ALL TYPES OF INSTALLED PIPE SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C-600.
21. ALL NEW, CLEANED OR REPAIRED WATER MAINS SHALL BE DISINFECTED AND BACTERIOLOGICAL TESTING PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C-651-05 (EXCEPT FOR SECTION 4.4.2 WHICH IS NOT APPROVABLE), THE SPECIFICATIONS INCLUDE DETAILED PROCEDURES FOR THE ADEQUATE FLUSHING, DISINFECTION, AND MICRO- BIOLOGICAL TESTING OF ALL WATER MAINS.
22. ROAD OPENINGS SHALL BE DONE IN ACCORDANCE WITH CONDITIONS OF PERMIT, AND COORDINATED WITH THE TOWN OF OSSINING.



PROJECT # 15-18

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5	4/8/16	Town Comments		

SCALE: NTS	DRAWN BY: TK	DATE: 9/25/15
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NOTES

SITE PLAN
PREPARED FOR
PARTH KNOLLS LLC.

87 HAWKES AVENUE
Town of Ossining
Westchester County, NY

Sheet
G-1

E:\2015\15-18 BELDOTTI MANAGEMENT CORP\ENGINEERING\CD\15-18 BELDOTTI MANAGEMENT CORP\15-18 DETAILS 7-23-15.DWG

NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

Construction Sequence

Recommended Sequence of Construction

Use of erosion and sediment control structures and practices are important for maintaining site stability under runoff and during daily construction activities. The Construction Sequence should be staged with erosion and sediment controls, as follows, with all controls in place and implemented prior to respective infrastructure construction. As construction proceeds, the controls should be monitored, maintained and replaced as needed. Additional controls may be required as needed to address unforeseen situations.

Refer to The Construction Drawings for all plans and details which relate to the Construction Sequence. This Sequence should be followed in conjunction with all Plans, Notes, and the Stormwater Pollution Prevention Plan. Prior to the commencement of work, the Owner and General Contractor shall read and understand the Sequence for Construction. The Sequence shall be discussed at the time of the Pre-construction Meeting.

During construction of the project, the Contractor is responsible to coordinate all required inspections with various agencies and the Project Engineer.

Construction Sequence

General Sequence: The general sequence applies to the start of all Phases of the project. The requirements in such shall be applied as appropriate in that phase and shall be assumed in place prior to the start of the work outlined in the sequence for each Phase.

- Prior to the beginning of any site work the major features of the construction must be field staked by a licensed surveyor. These include the building, limits of disturbance, utility lines, and Stormwater practices.
- Prior to the start of the project, an on-site pre-construction meeting will be held. This will be attended by the Project Owner, the Operator responsible for complying with the approved construction drawings including the Erosion and Sediment Control (E&SC) Plan and Details, the Design Engineer, the Engineer responsible for E&SC monitoring during construction, Town representatives from the Engineering Department and Code Enforcement.
- Cut and clear trees within the phase limits as necessary for the areas to be disturbed. Install tree protective measure at marked locations on E&SC Plan.
- Install all temporary erosion control measures as shown on the Erosion and Sediment Control Plan for the project's immediate disturbance areas. This shall include, but not limited to silt fence, stabilized construction entrances, diversion swales, sediment traps, construction fence, etc. This sequence must be followed to insure proper implementation of the Erosion and Sediment Control Plan (E&SC) and Stormwater Pollution Prevention Plan (SWPPP).
- Timbered trees and woodchips shall be temporarily stored in the stockpile and/or staging area if necessary before being removed off-site. Woodchips may be used for mulch to stabilize disturbed areas. Woodchip mulch shall be applied at a minimum rate of 500 lbs. per 1000 SF (2" thick minimum).
- Remove existing vegetative cover, cut and clear trees, grub, remove stumps and other surface features in the limit of construction only. Any disturbance that results from tree clearing and grubbing shall be immediately stabilized with woodchips mulch, hydro-mulch, or straw and seed. Timbered trees, wood chips, and stumps shall be removed off-site unless otherwise directed. As stated woodchips may be stockpiled for use as stabilized ground cover. Demolish and/or remove existing features, i.e.: fence, concrete slab, asphalt etc., and dispose of or stockpile as required by the Owner. All construction debris shall be properly disposed of in accordance with all Federal, State, and Local requirements.

Standard Sequence Notes for Phases I & II

- Begin rough grading the building pads for the Buildings. Begin moving the fill towards the location designated for each phase. Cut and fill of a certain phase shall meet the next phase boundary at a maximum slope of 2V:1H. For previous phases where grading is complete match to finish grade elevations. All compaction requirements shall be met within the fill sections. (This work shall include the commencement of the retaining walls around the proposed building construction.) Upon completion of the grading, temporary seed or hydro-mulch the embankment and install erosion control blankets as shown on the Plans along the northern perimeter of the fill section. During building and site construction, maintain and re-establish as required, erosion control and stabilization measures as required by the Site Plan and Details. Areas which are to remain undisturbed for more than seven (7) days shall be stabilized with temporary seeding or mulch.
- A licensed surveyor must define the building locations.
- Install or check condition of all temporary Erosion Control Measures as shown on the Erosion and Sediment Control Plan.
- Begin preparation of the building site and excavation of the building foundation as well as construction of all retaining walls. Areas in which final grade is achieved shall be immediately stabilized with permanent vegetative cover. Permanent slopes of 3:1 or greater shall receive erosion blankets.
- Begin construction of the foundation. Upon completion and after proper curing time is achieved, backfill the foundation and bring site to rough grade. Areas which are to remain undisturbed for more than seven (7) days shall be stabilized with temporary seeding or mulch.

The following phases are the general order for construction of the project and may be modified after approved by the supervising Engineer. The phasing is meant to minimize the amount of open disturbance. Under no circumstances shall multiple phases amounting to five (5) acres or greater be disturbed during the same period of time. In the event greater disturbance is necessary outside of the Phase limits shown on the Erosion and Sediment Control Plan, the Contractor shall coordinate with the Engineer of Record, and Municipality for an on-site meeting to discuss the alternative approach to the construction.

Phase I: Construction of Building 1 - The intent of this Phase is to complete the construction of Building 1, the driveways for the parking area in front of the building, the parking garage, the parking area in the rear of the building, and the landscape and hardscape included in the Phase limits shown on the Erosion and Sediment Control Plan. Additionally, any proposed drainage measures shown within the phase limits shall be put in place, but not connected until the final stabilization of Phase 2.

- The Surveyor shall stake-out the proposed driveway centerlines, limits of cut and fill and the location of the temporary sediment traps.
- Implement the General Sequence Notes 1 through 5 where applicable prior to continuing this Phase.
- Once the tree removal operation is complete strip the topsoil within the Phase I boundary and place excavated topsoil within the identified stockpile locations. Any soils so deemed by the Design or Monitoring Engineer shall be stockpiled for future use as landscaped area topsoil. Contractor shall take every precaution feasible to reduce the amount of disturbed/exposed soils during construction.
- Construct and install temporary sediment traps along the proposed access drive and rear parking area. Install the temporary filtered outlet pipe. Any disturbed area that will not be further disturbed within seven (7) days shall be immediately stabilized with woodchips, hydro-mulch, or straw and seed.
- Prior to starting the work install all erosion and sediment controls including the installation of the stabilized construction entrance and sediment trap.
- Begin the removal of the existing driveway. Material shall be properly disposed of.
- Begin rough grading of driveways within phase limits and adjacent areas. Slops in excess of 3H:1V shall not be left exposed and must be stabilized.
- Begin excavation of the building foundation for the Building and adjacent areas.

Refer to Notes 7 through 12 under the General Sequence.

- Cut material shall first be moved to the fill locations required to complete the access drive and staging area and bring the area up to final grades. Excess material to be used toward infilling in Phase II shall be stockpiled. Blasted rock that is not suitable to remain on site shall be hauled away and properly disposed of. An area has been provided for the stockpiling of removed soil and rock which is to be removed from the site as well as a cuing area for trucks awaiting loading.
- Proceed with the construction of Building 1. This includes the building structure itself, retaining walls, and rough grades. At any point during this begin installation of the utilities including the water and sewer connections, drainage and power utilities.
- Stake-out the location of utilities and utility structures within this Phase. Temporarily relocate the staging area at the western end of the site. Begin installation of subsurface infiltration and detention chambers within Phase I limits.
- When the subsurface units are installed, the upstream drainage structure shall be blocked so as to not allow sediment laden water from reaching the subsurface chambers.
- Backfill as installation is complete and stabilize the area. If trenches are to be left open, place excavated material on the up-slope sides of the trench and protect and stabilize if it is to remain open for an extended period of seven (7) days or more.
- Upon completion of the subsurface chambers, begin installation of proposed bypass and outlet structures. Install storm sewer piping, catch basins and manholes, working downstream to upstream. During the installation of catch basins, install inlet protection and water bar as per E&SC Plan to assure that sediment laden water will not enter the storm system. Once the final grade above the system is achieved, put into place the final topsoil cover, seed mix, and erosion control blanket, or hydro-mulch. Refer to the Landscape Plan for the seed mix requirements.
- Once the infiltrator system has been installed, grade and install the base course for the driveways and parking areas. Re-establish the staging area for the construction site trailer and parking.

Note: No stormwater is permitted to enter the infiltration system from the upstream conveyance system and shall be blocked until the completion and stabilization of all Phases tributary to the basin. An area shall be considered to have achieved final stabilization when it has a minimum uniform 80% perennial vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding and other movements.

- Complete construction of the building and remaining retaining walls within Phase limits.
- Stake out and install curbing as per Plan. Once curbing is completed around catch basins, re-install inlet protection within catch basins. As curbing is complete, backfill with topsoil. Areas that are filled with topsoil are to be raked, seeded, and hay mulched.
- Upon completion of the majority of the infrastructure in that phase, install pavement binder course to the thickness and elevation as per the Construction Plans.
- As each Phase is at the completion stage install final asphalt surface.
- Install hardscape such as patios, walks steps etc., and final vegetation including sod and landscaping. Refer to Landscape Plans for location and identification of ground cover and plantings. Clear site of debris and all unwanted materials. Disposal shall be in accordance with all Federal, State, and Local requirements.
- During the Final Phase of building construction, finish grade, topsoil, rake, and seed all areas as required. Where required or recommended, hydro-mulch or install erosion control blankets.
- Upon completion of this Phase, the Contractor shall be required to stabilize disturbed soils in the event the disturbed area will remain not worked for greater than seven (7) days, at the direction of the Engineer of Record or permitting entity Inspector, and when significant precipitation is in the immediate forecast. All disturbed areas shall be temporarily stabilized with hydro-mulch or where appropriate woodchips. It is recommended that any grading that is at the finish stage will receive no further disturbance and that permanent stabilization such as topsoil, seed, mulching or blankets as per the Plan be installed. The next Phase cannot commence until these steps have been completed.

Phase II: Construction of Building 2 - The intent of this Phase is to complete the construction of Building 2, the main access driveway and parking for the building, the pool and recreation area located behind the building and the landscape and hardscape included in the Phase limits shown on the Erosion and Sediment Control Plan. Additionally, the any proposed drainage measures shown within the phase limits shall be put in place, but not connected until the final stabilization of Phase II.

- The Surveyor shall stake-out the proposed building, drive and parking access, pool and recreation area, limits of cut and fill, and the location of the temporary sediment traps.
- Strip topsoil within the Phase II boundary and place excavated topsoil within the identified stockpile locations. Any soils so deemed by the Design or Monitoring Engineer shall be stockpiled for future use as landscaped area topsoil. Contractor shall take every precaution feasible to reduce the amount of disturbed/exposed soils during construction.
- Begin excavation for the building foundation for the building and adjacent areas. Refer to Notes 7 through 12 under the General Sequence.
- Begin rough grading main access driveway and parking area for building 2. Connections to building 1 driveway shall be made at subgrade elevations.
- Cut material shall first be moved to the fill locations required to complete and bring the areas up to final grades. Excess material to be removed from the site.
- Stake-out the location of utilities and utility structures within this Phase. Install storm sewer piping, catch basins and manholes, working downstream to upstream. During the installation of catch basins, install inlet protection and water bar as per E&SC Plan to assure that sediment-laden water will not enter the storm system. Make connections to other phase utilities as necessary.
- Complete construction of the building and remaining retaining walls within Phase limits. Utilities must be installed and completed before the construction of the retaining walls.
- Stake out and install curbing as per Plan. Once curbing is completed around catch basins, re-install inlet protection within catch basins. As curbing is complete, backfill with topsoil. Areas that are filled with topsoil are to be raked, seeded, and hay mulched.
- Upon completion of the majority of the infrastructure in that phase, install pavement binder course to the thickness and elevation as per the Construction Plans.
- As the Phase is at the completion stage install final asphalt surface.
- Install hardscape such as patios, walks steps etc., and final vegetation including sod and landscaping. Refer to Landscape Plans for location and identification of ground cover and plantings. Clear site of debris and all unwanted materials. Disposal shall be in accordance with all Federal, State, and Local requirements.
- During the Final Phase of building construction, once final grade is achieved, place final topsoil cover, begin placement of seed mix and erosion control blanket, or hydro-mulch. Refer to the Landscape Plan for the seed mix requirements.

Final Site Stabilization and Completion of New Construction:

- Upon completion of all Phases, the site shall be inspected by the Supervising Engineer and Town Inspector to determine completion of all work and permanent stabilization of the site.
- Any areas deemed incomplete or not properly stabilized shall be done so to the satisfaction to the Supervising Engineer and Town Inspector.
- Once the site is deemed adequately stable the temporary erosion and sediment control measures can be removed including the sediment traps. The area where the sediment trap was located shall be filled, top soiled, seeded and mulched in accordance with the specifications within this plan. At that time if deemed appropriate drainage structures upstream from the subsurface stormwater management systems shall be cleaned of sediment and debris. They can then be unblocked to allow for flow of collected surface runoff.

Contact information during and after construction:

Anthony Beldotti
APB Management
500 Executive Blvd. #203
Ossining, NY 10562
914-762-7898

GENERAL EROSION CONTROL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SEDIMENT AND EROSION CONTROL PRACTICES. THE SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. ROAD SURFACE FLOWS FROM THE SITE SHOULD BE DISSIPATED WITH TRACKING PAD OR APPROPRIATE MEASURES DURING ADJACENT ROAD SHOULDER REGRADING. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL DEVICES THROUGHOUT THE COURSE OF CONSTRUCTION.
- CATCH BASIN INLET PROTECTION MUST BE INSTALLED AND OPERATING AT ALL TIMES UNTIL TRIBUTARY AREAS HAVE BEEN STABILIZED. WHEN POSSIBLE FLOWS SHOULD BE STABILIZED BEFORE REACHING INLET PROTECTION STRUCTURE. TIMELY MAINTENANCE OF SEDIMENT CONTROL STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL STRUCTURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES. THE SEDIMENT LEVEL IN ALL SEDIMENT TRAPS SHALL BE CLOSELY MONITORED AND SEDIMENT REMOVED PROMPTLY WHEN MAXIMUM LEVELS ARE REACHED OR AS ORDERED BY THE ENGINEER. ALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED ON A REGULAR BASIS, AND AFTER EACH HEAVY RAIN TO INSURE PROPER OPERATION AS DESIGNED. AN INSPECTION SCHEDULE SHALL BE SET FORTH PRIOR TO THE START OF CONSTRUCTION.
- THE LOCATIONS AND THE INSTALLATION TIMES OF THE SEDIMENT CAPTURING STANDARDS SHALL BE AS SPECIFIED IN THESE PLANS, AS ORDERED BY THE ENGINEER, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" (NYSSESC).
- ALL TOPSOIL SHALL BE PLACED IN A STABILIZED STOCKPILE FOR REUSE ON THE SITE. ALL STOCKPILE MATERIAL REQUIRED FOR FINAL GRADING AND STORED ON SITE SHALL BE TEMPORARILY SEEDED AND MULCHED WITHIN 7 DAYS. REFER TO SOIL STOCKPILE DETAILS.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 7 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING. MULCH SHALL BE USED IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER. DISTURBED AREAS SHALL NOT BE LIMED AND FERTILIZED PRIOR TO TEMPORARY SEEDING.
- ALL DISTURBED AREAS WITHIN 500 FEET OF AN INHABITED DWELLING SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL.
- THE CONTRACTOR SHALL KEEP THE ROADWAYS WITHIN THE PROJECT CLEAR OF SOIL AND DEBRIS AND IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.
- SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED BY PERMANENT MEASURES.
- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT EDITION OF NYSSESC.
- ALL REGRADED AREAS MUST BE STABILIZED APPROPRIATELY PRIOR TO ANY ROCK BLASTING, CUTTING, AND/OR FILLING OF SOILS. SPECIAL CARE SHOULD BE TAKEN DURING CONSTRUCTION TO INSURE STABILITY DURING MAINTENANCE AND INTEGRITY OF CONTROL STRUCTURES.
- ANY SLOPES GRADED AT 3:1 OR GREATER SHALL BE STABILIZED WITH EROSION BLANKETS TO BE STAKED INTO PLACE IN ACCORDANCE WITH THE MANUFACTURES REQUIREMENTS. EROSION BLANKETS MAY ALSO BE REQUIRED AT THE DISCRETION OF TOWN OFFICIALS OR PROJECT ENGINEER. WHEN STABILIZED BLANKET IS UTILIZED FOR CHANNEL STABILIZATION, PLACE ALL OF THE VOLUME OF SEED MIX PRIOR TO LAYING NET, OR AS RECOMMENDED BY THE MANUFACTURER.
- TO PREVENT HEAVY CONSTRUCTION EQUIPMENT AND TRUCKS FROM TRACKING SOIL OFF-SITE, CONSTRUCT A PERVIOUS CRUSHED STONE PAD. LOCATE AND CONSTRUCT PADS AS DETAILED IN THESE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. CONTRACTOR TO SUPPLY ALL EQUIPMENT AND WATER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION INSPECTIONS AS PER NYSDEC GP-0-15-002 AND TOWN OF OSSINING CODE.

MAINTENANCE OF TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURES:

N.Y.S.D.E.C. GP-0-15-002 EXPOSURE RESTRICTIONS - STATES THAT ANY EXPOSED EARTHWORK SHALL BE STABILIZED IN ACCORDANCE WITH THE GUIDELINES OF THIS PLAN.

- TREES AND VEGETATION SHALL BE PROTECTED AT ALL TIMES AS SHOWN ON THE DETAIL DRAWING AND AS DIRECTED BY THE ENGINEER.
- CARE SHOULD BE TAKEN SO AS NOT TO CHANNEL CONCENTRATED RUNOFF THROUGH THE AREAS OF CONSTRUCTION ACTIVITY ON THE SITE.
- FILL AND SITE DISTURBANCES SHOULD NOT BE CREATED WHICH CAUSES WATER TO POND OFF SITE OR ON ADJACENT PROPERTIES.
- RUNOFF FROM LAND DISTURBANCES SHALL NOT BE DISCHARGED OR HAVE THE POTENTIAL TO DISCHARGE OFF SITE WITHOUT FIRST BEING INTERCEPTED BY A CONTROL STRUCTURE, SUCH AS A SEDIMENT TRAP OR SILT FENCE. SEDIMENT SHALL BE REMOVED BEFORE EXCEEDING 50% OF THE RETENTION STRUCTURE'S CAPACITY.
- FOR FINISHED GRADING, ADEQUATE GRADE SHALL BE PROVIDED SO THAT WATER WILL NOT POND ON LAWNS FOR MORE THAN 24 HOURS AFTER RAINFALL, EXCEPT IN SWALE FLOW AREAS WHICH MAY DRAIN FOR AS LONG AS 48 HOURS AFTER RAINFALL.
- ALL SWALES AND OTHER AREAS OF CONCENTRATED FLOW SHALL BE PROPERLY STABILIZED WITH TEMPORARY CONTROL MEASURES TO PREVENT EROSION AND SEDIMENT TRAVEL. SURFACE FLOWS OVER CUT AND FILL AREAS SHALL BE STABILIZED AT ALL TIMES.
- ALL SITES SHALL BE STABILIZED WITH EROSION CONTROL MATERIALS WITHIN 7 DAYS OF FINAL GRADING.
- TEMPORARY SEDIMENT TRAPPING DEVICES SHALL BE REMOVED FROM THE SITE WITHIN 30 DAYS OF FINAL STABILIZATION.

MAINTENANCE SCHEDULE:

	DAILY	WEEKLY	MONTHLY	AFTER RAINFALL	NECESSARY TO MAINTAIN FUNCTION	AFTER APPROVAL OF INSPECTOR
SILT FENCE	----	-----	INSP.	INSP.	CLEAN/ REPLACE	REMOVE
WHEEL CLEANER	CLEAN	-----	-----	-----	REPLACE	REMOVE
INLET PROTECTION	----	INSP.	INSP.	CLEAN	REPLACE	REMOVE

MAINTENANCE OF PERMANENT CONTROL STRUCTURES DURING CONSTRUCTION:

The stormwater management system and outlet structure shall be inspected on a regular basis and after every rainfall event. Sediment build up shall be removed from the inlet protection regularly to insure detention capacity and proper drainage. Outlet structure shall be free of obstructions. All piping and drain inlets shall be free of obstruction. Any sediment build up shall be removed.

MAINTENANCE OF CONTROLS AFTER CONSTRUCTION:

Controls (including respective outlet structures) should be inspected periodically for the first few months after construction and on an annual basis thereafter. They should also be inspected after major storm events.

DEBRIS AND LITTER REMOVAL:

Twice a year, inspect outlet structure and drain inlets for accumulated debris. Also, remove any accumulations during each mowing operation.

STRUCTURAL REPAIR/REPLACEMENT:

Outlet structure must be inspected twice a year for evidence of structural damage and repaired immediately.

EROSION CONTROL:

Unstable areas tributary to the basin shall immediately be stabilized with vegetation or other appropriate erosion control measures.

SEDIMENT REMOVAL:

Sediment should be removed after it has reached a maximum depth of five inches above the stormwater management system floor.

TOPSOIL:

Existing topsoil will be removed and stored in piles sufficiently as to avoid mixing with other excavation. Stockpiles shall be surrounded by erosion control as outlined on these plans. The furnishing of new topsoil shall be of a better or equal to the following criteria (SS713.01 NYSDOT):

- The pH of the material shall be 5.5 to 7.6.
- The organic content shall not be less than 2% or more than 70%.

Gradation:	SIEVE SIZE	% PASSING BY WGT.
	2 INCH	100
	1 INCH	85 TO 100
	1/4 INCH	65 TO 100
	NO. 200 MESH	20 TO 80

PERMANENT VEGETATIVE COVER:

- Site preparation:
 - Install erosion control measures.
 - Scarify compacted soil areas.
 - Lime as required to ph 6.5.
 - Fertilize with 10-6-4 4 lbs/1,000 S.F.
 - Incorporate amendments into soil with disc harrow.
- Seed mixtures for use on swales and cut and fill areas.

MIXTURE		LBS./ACRE
ALT. A	KENTUCKY BLUE GRASS	20
	CREeping RED FESCUE	28
	RYE GRASS OR REDTOP	5
ALT. B	CREeping RED FESCUE	20
	REDTOP	2
	TALL FESCUE/SMOOTH BLOOMGRASS	20
- SEEDING
 - Prepare seed bed by raking to remove stones, twigs, roots and other foreign material.
 - Apply soil amendments and integrate into soil.
 - Apply seed uniformly by cyclone seeder culti-packer or hydro-seeder at rate indicated.
 - Stabilize seeded areas in drainage swales.
 - Irrigate to fully saturate soil layer, but not to dislodge planting soil.
 - Seed between April 1st and May 15th or August 15th and October 15th.
 - Seeding may occur May 15th and August 15th if adequate irrigation is provided.

TEMPORARY VEGETATIVE COVER:

SITE PREPARATION:

- Install erosion control measures.
- Scarify areas of compacted soil.
- Fertilize with 10-10-10 at 400/acre.
- Lime as required to ph 6.5.

SEED SPECIES:

MIXTURE	LBS./ACRE
Rapidly germinating annual ryegrass (or approved equal)	20
Perennial ryegrass	20
Cereal oats	36

SEEDING:

Same as permanent vegetative cover

OWNER / OPERATOR CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Further, I hereby certify that the SWPPP meets all Federal, State, and local erosion and sediment control requirements. I am aware that false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law."

Name (please print): _____

Title: _____

Date: _____

Address: _____

Phone: _____

E-mail: _____

Signature: _____

CONTRACTOR CERTIFICATION STATEMENT

Certification Statement - All contractors and subcontractors as identified in a SWPPP, by the Owner or Operator, in accordance with Part III.A.5 of the SPDES General Permit for Stormwater Runoff from Construction Activity, GP-0-15-002, dated January 12, 2015, Page 10 of 40, shall sign a copy of the following Certification Statement before undertaking any construction activity at the Site identified in the SWPPP:

"I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the Qualified Inspector during a site inspection. I also understand that the Owner or Operator must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System ("SPDES") General Permit for Stormwater Discharge from Construction Activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings."

Individual Contractor: _____

Name and Title (please print): _____

Signature of Contractor: _____

Company / Contracting Firm: _____

Name of Company: _____

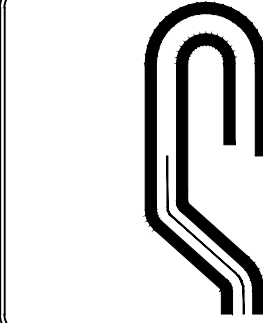
Address of Company: _____

Telephone Number / Cell Number: _____

Site Information: _____

Address of Site: _____

Today's Date: _____



Site Design Consultants

Civil Engineers • Land Planners

251-F Underhill Avenue, Yorktown Heights, NY 10598
(914) 962-4488 - Fax: (914) 962-7386
www.sitedesignconsultants.com

Engineer:

Joseph C. Rina, P.E.
NYS Lic. No. 64431

Revisions:	No.	Date	Comments:
	1	11/9/15	Town Comments
	2	12/7/15	Town Comments
	3	1/25/16	Town Comments
	5	4/8/16	Town Comments

SCALE:
N.T.S.

DRAWN BY:
TK

DATE:
9/25/15

E&SC NOTES

SITE PLAN
PREPARED FOR

PARTH KNOLLS LLC.

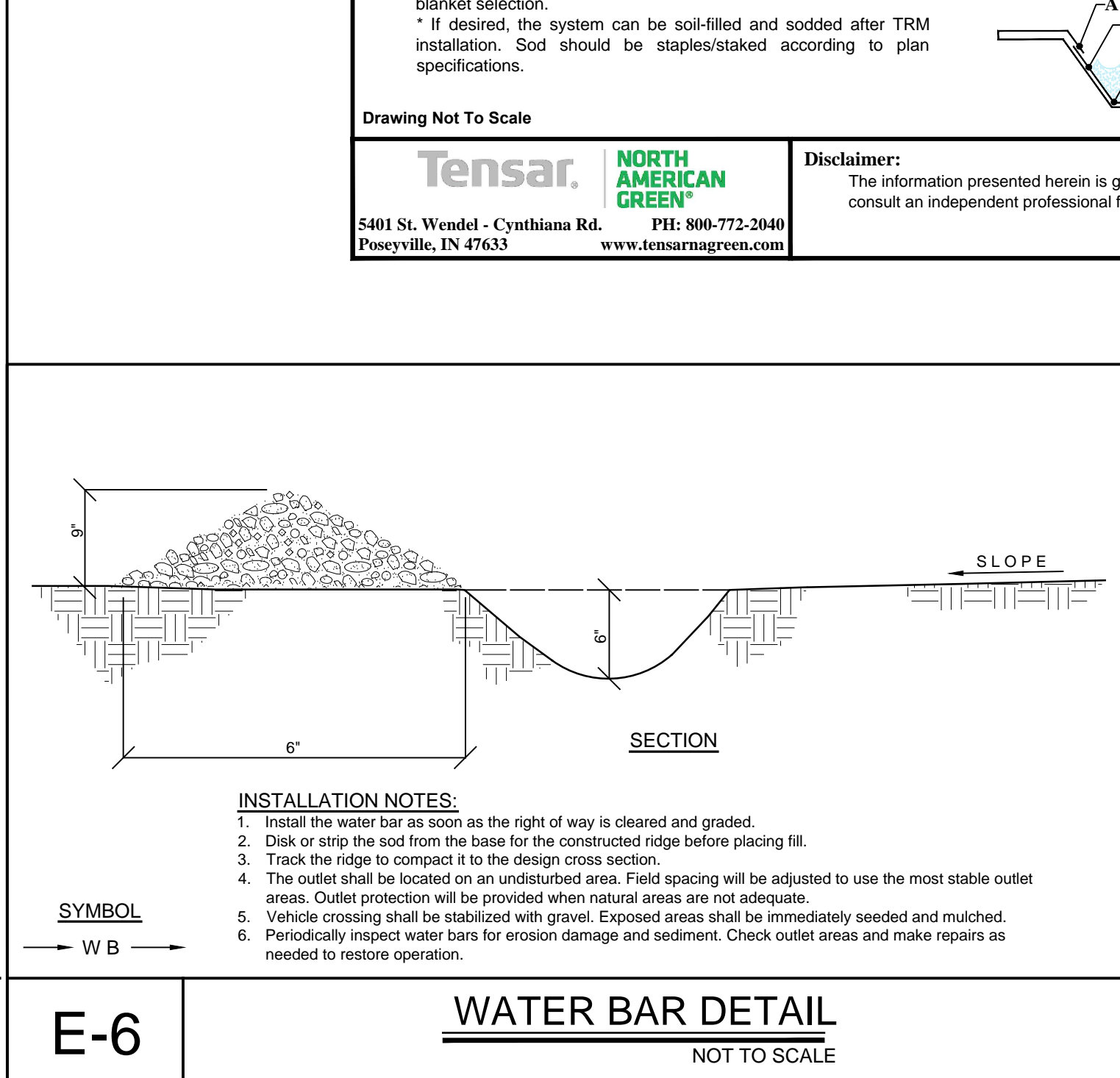
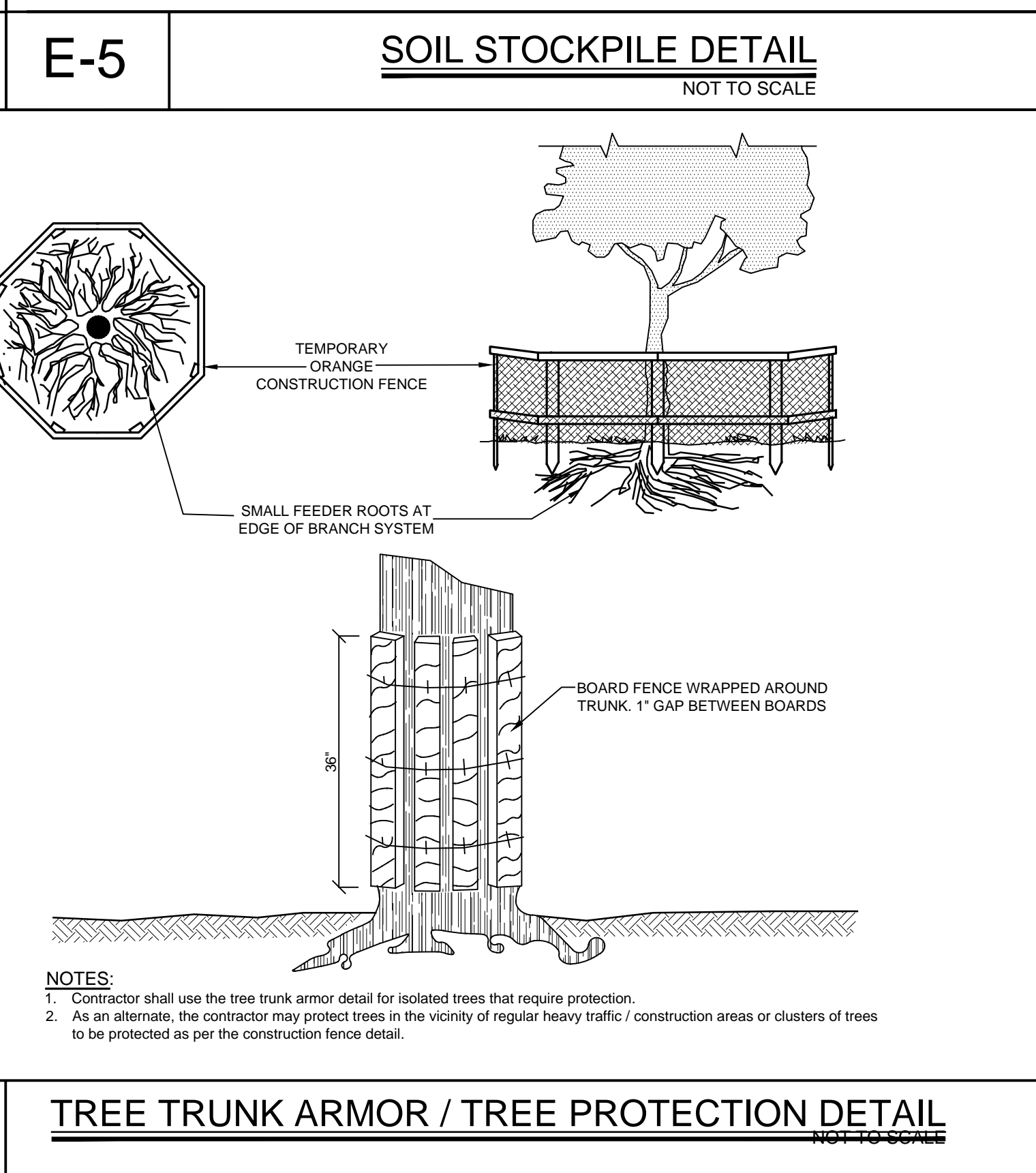
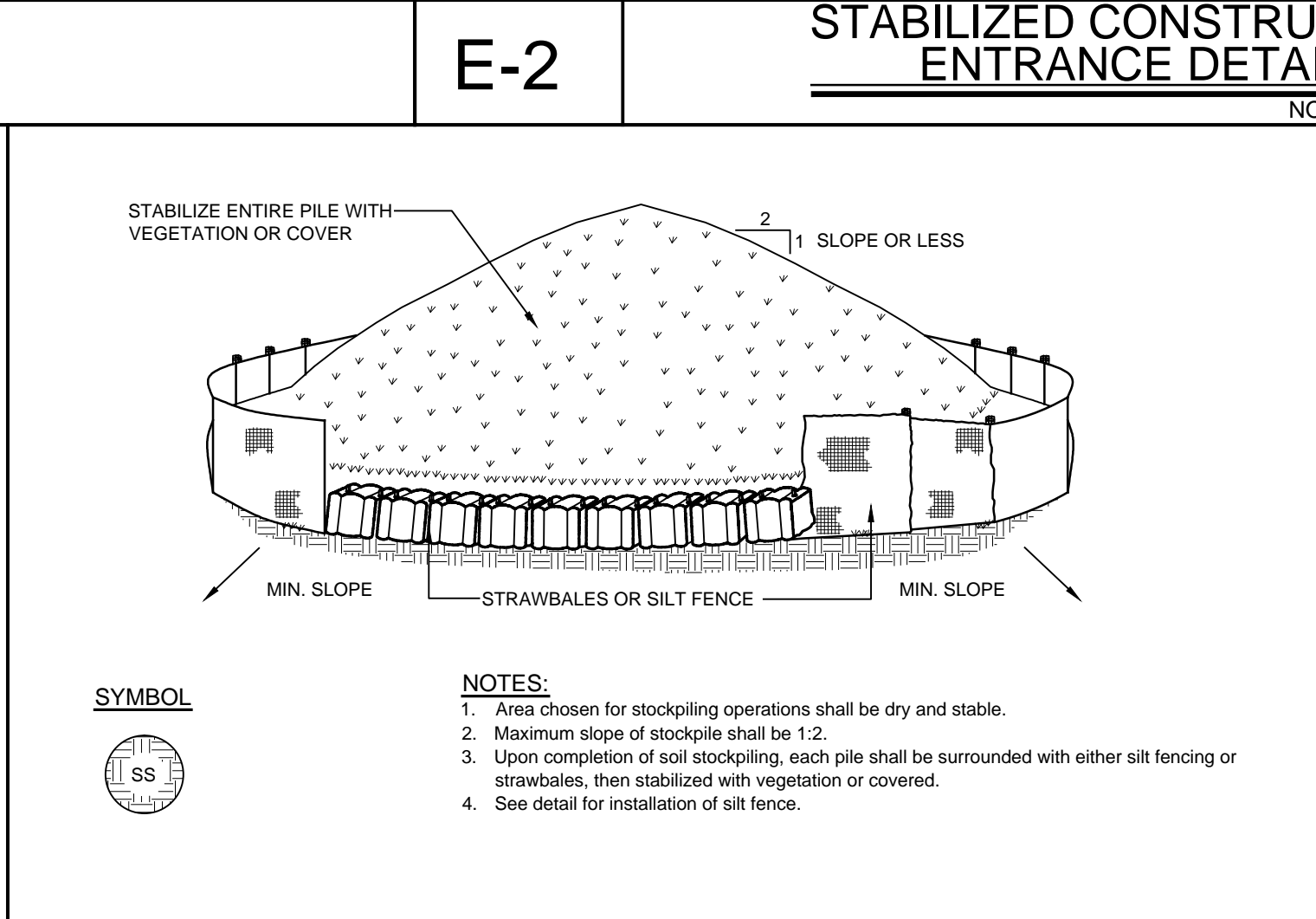
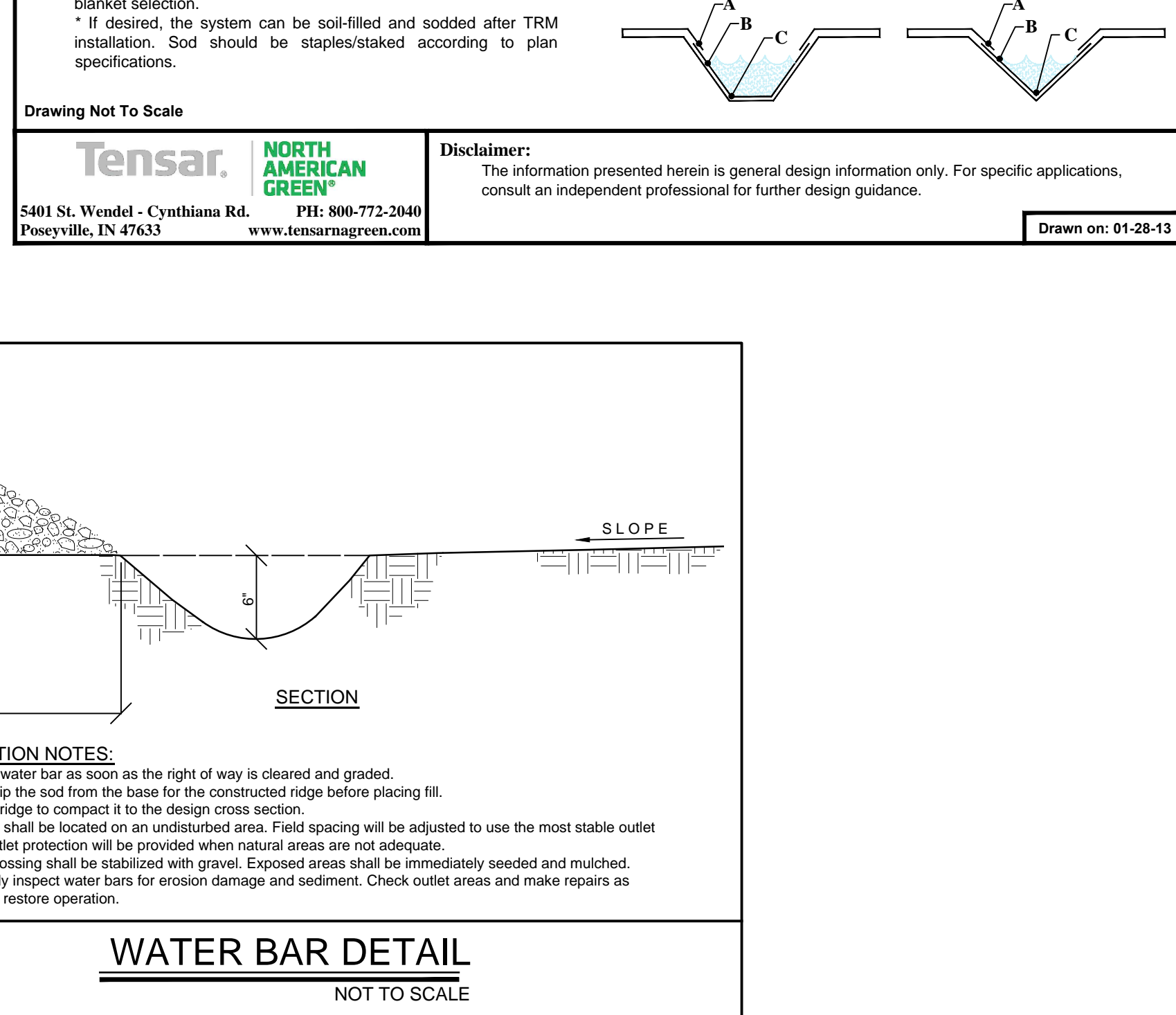
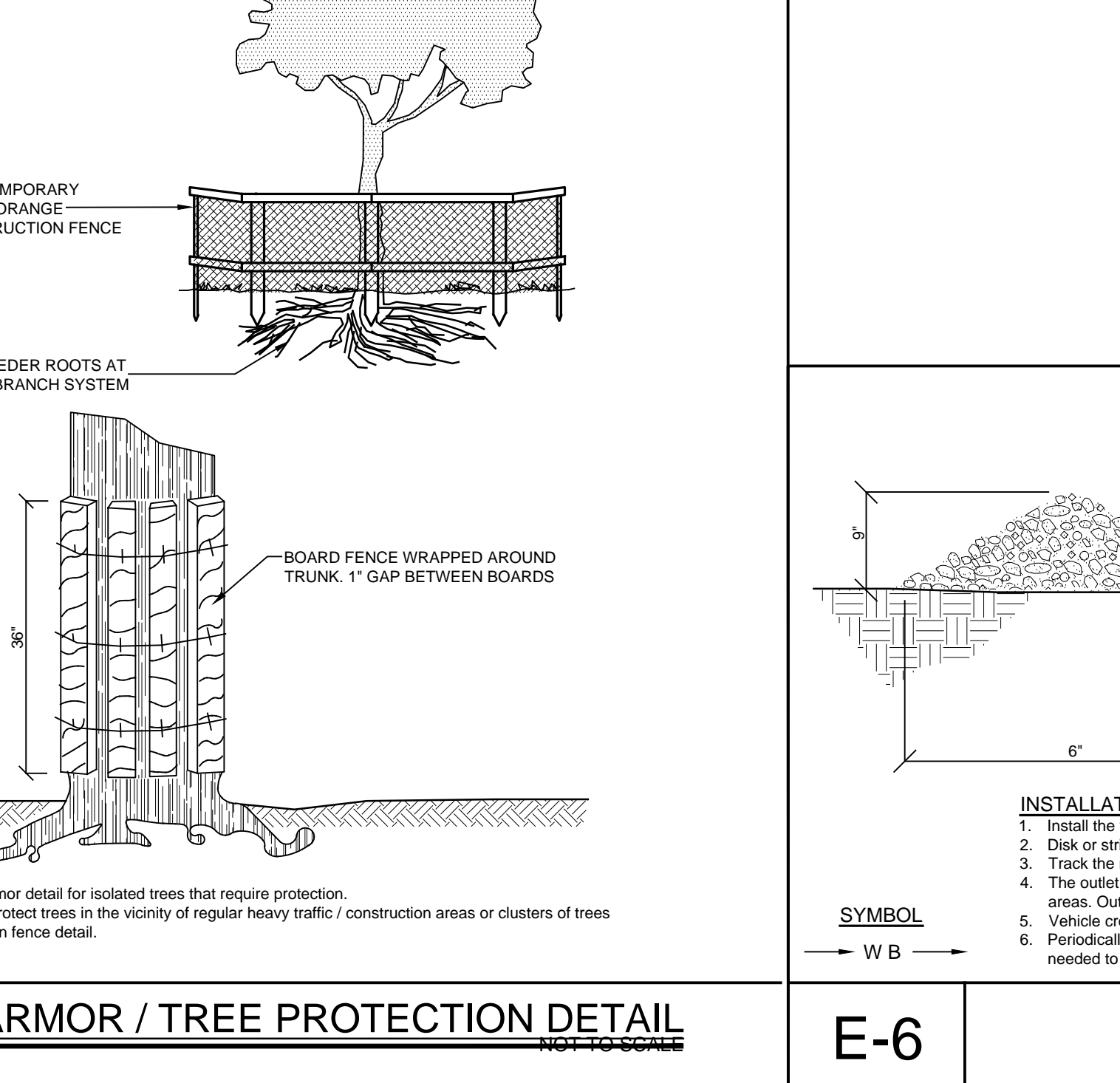
87 HAWKES AVENUE

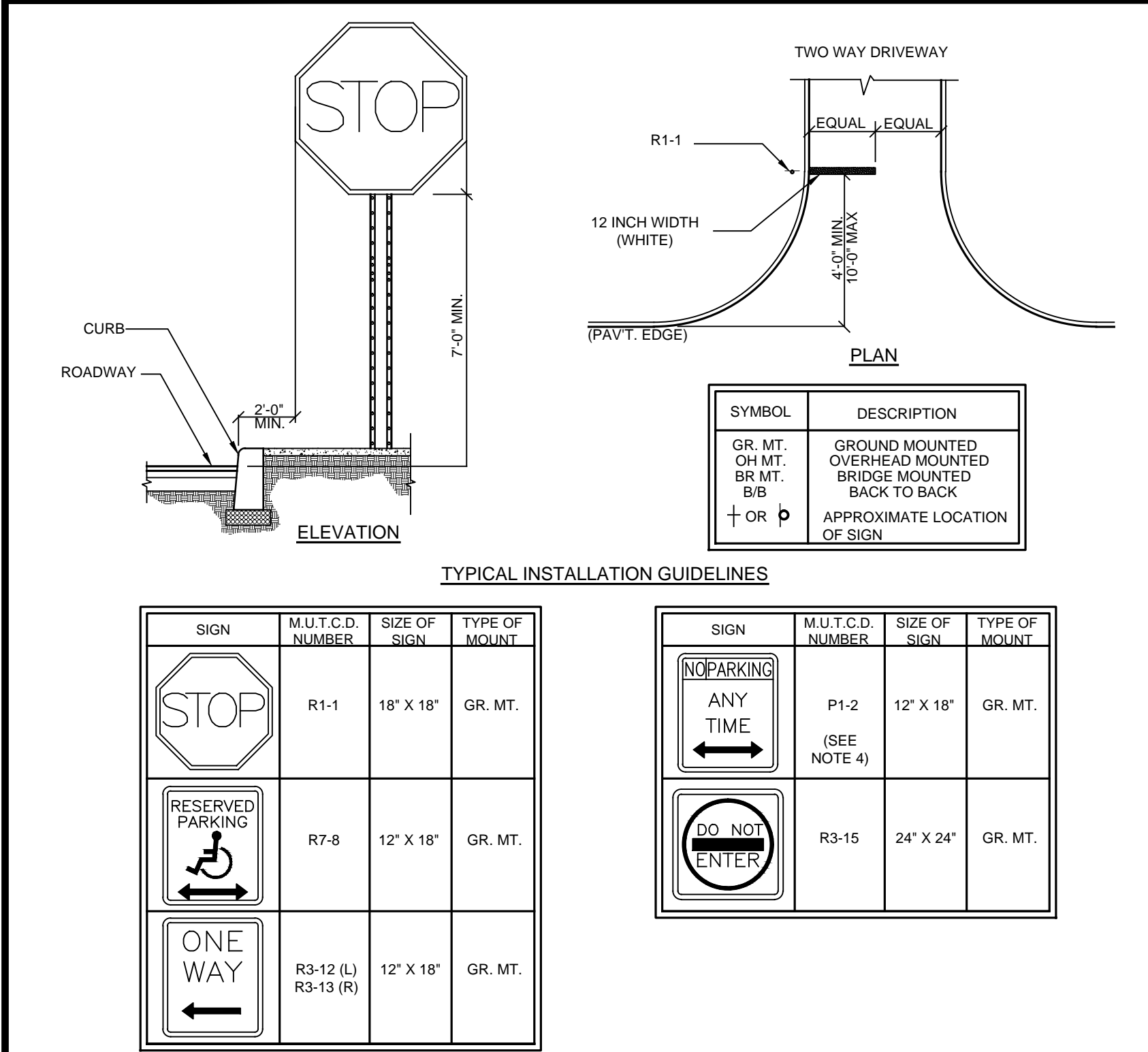
Westchester County, NY

Town Of Ossining

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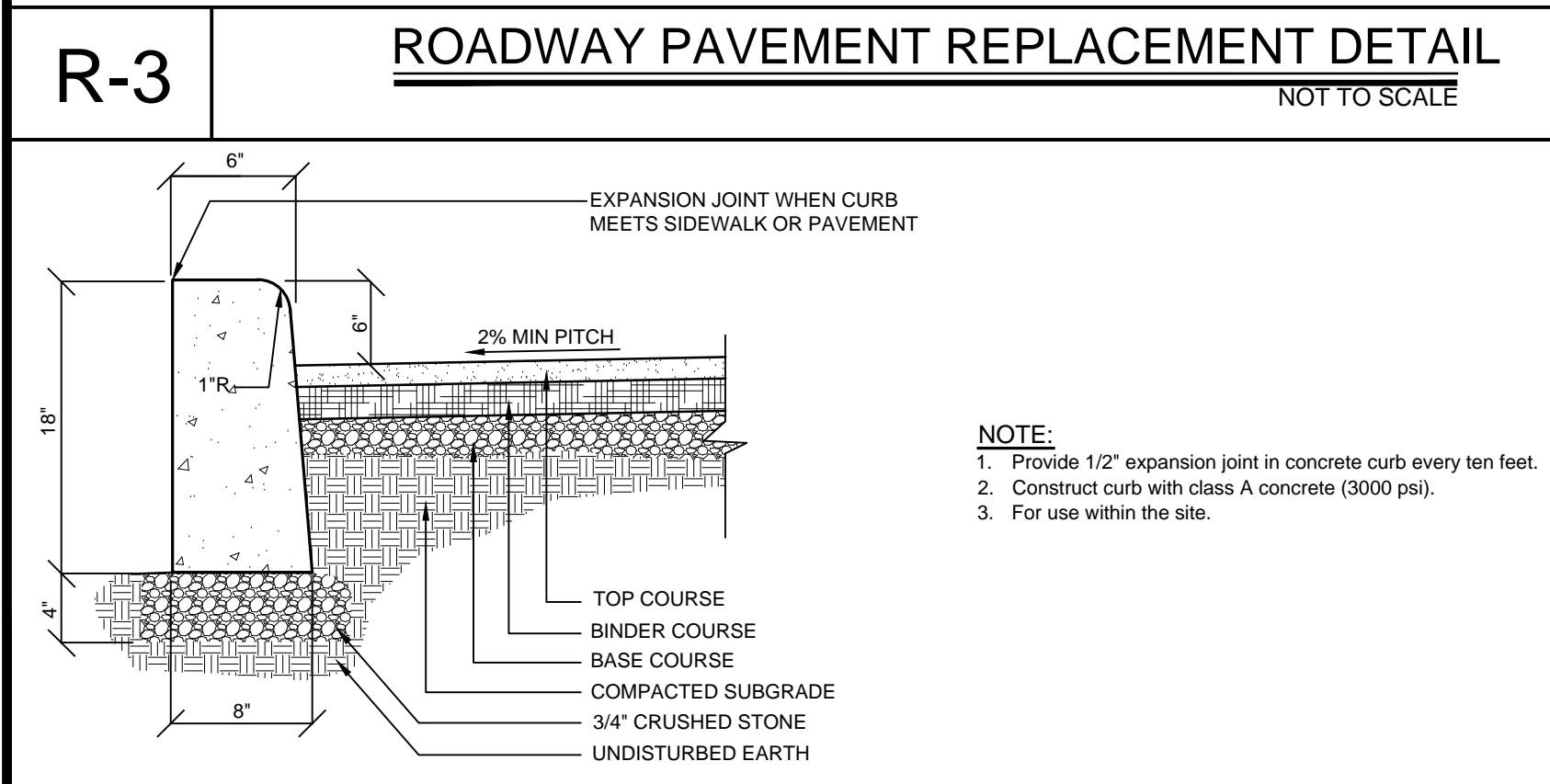
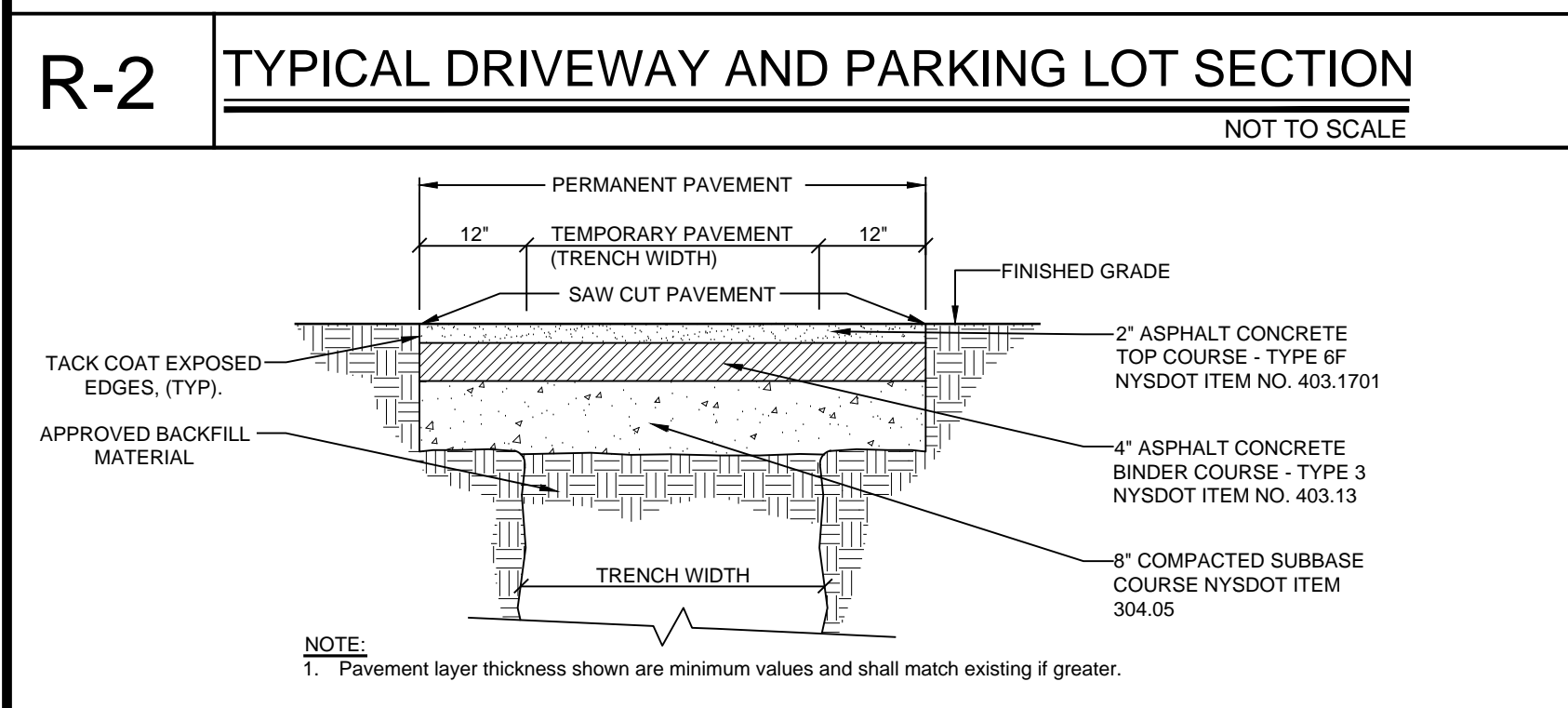
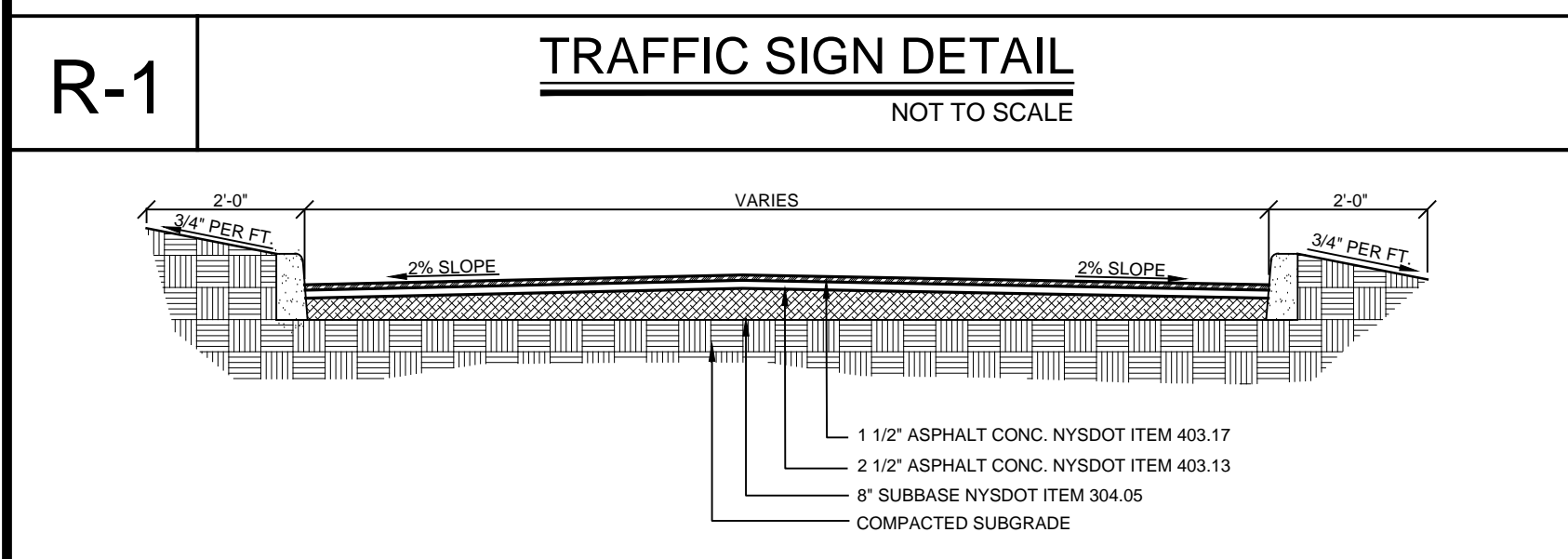
G-2





GENERAL NOTES:

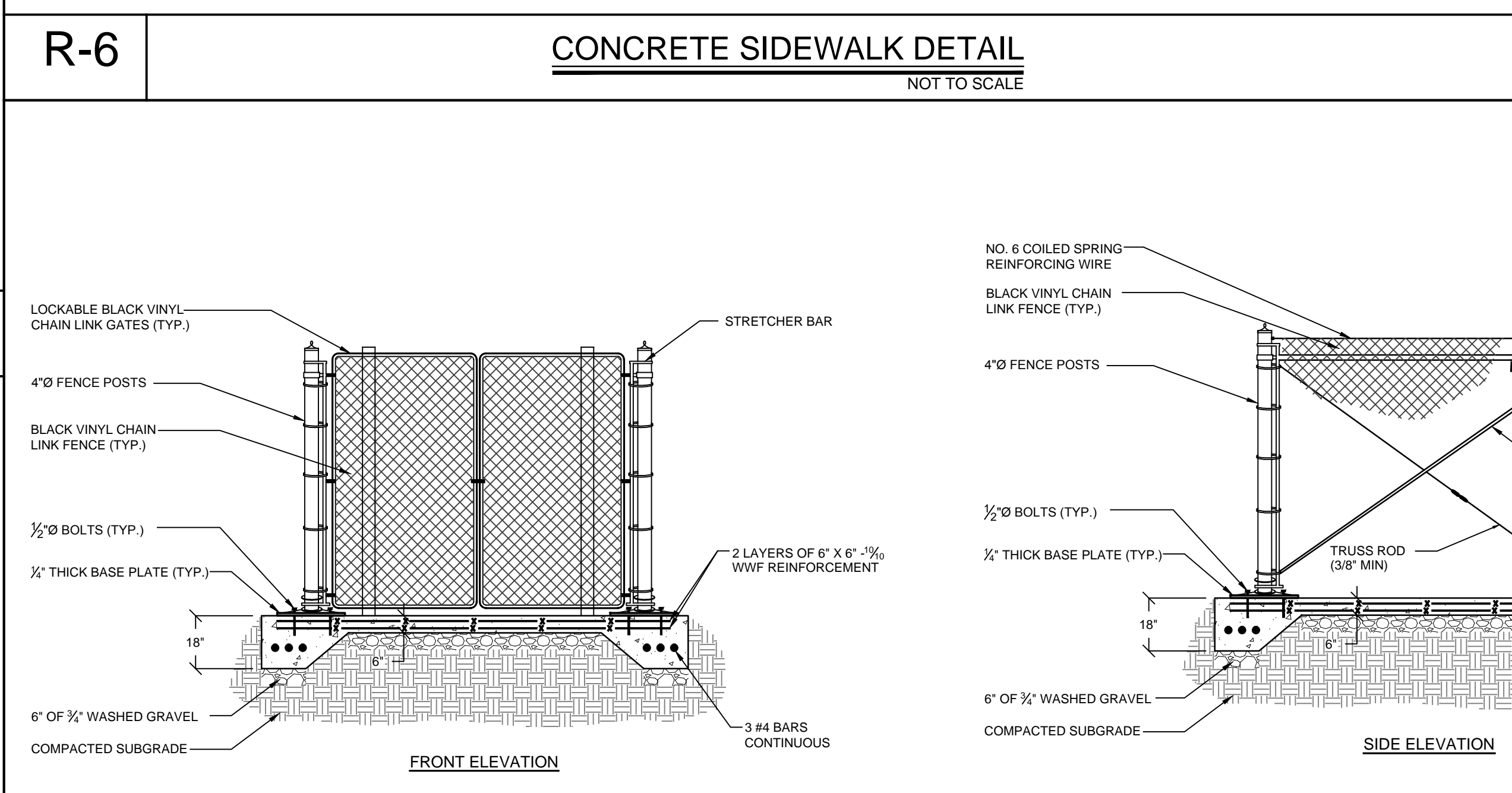
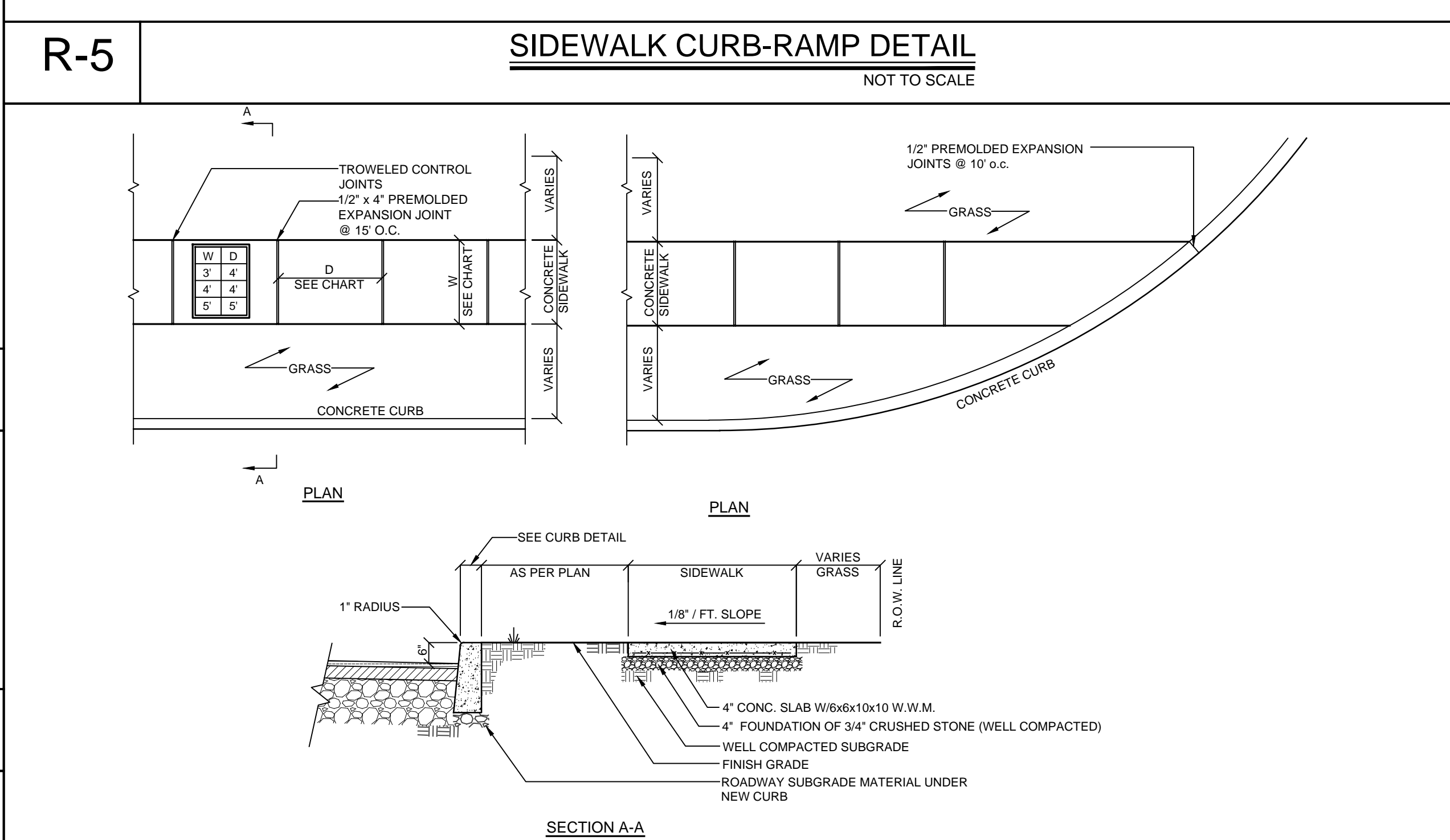
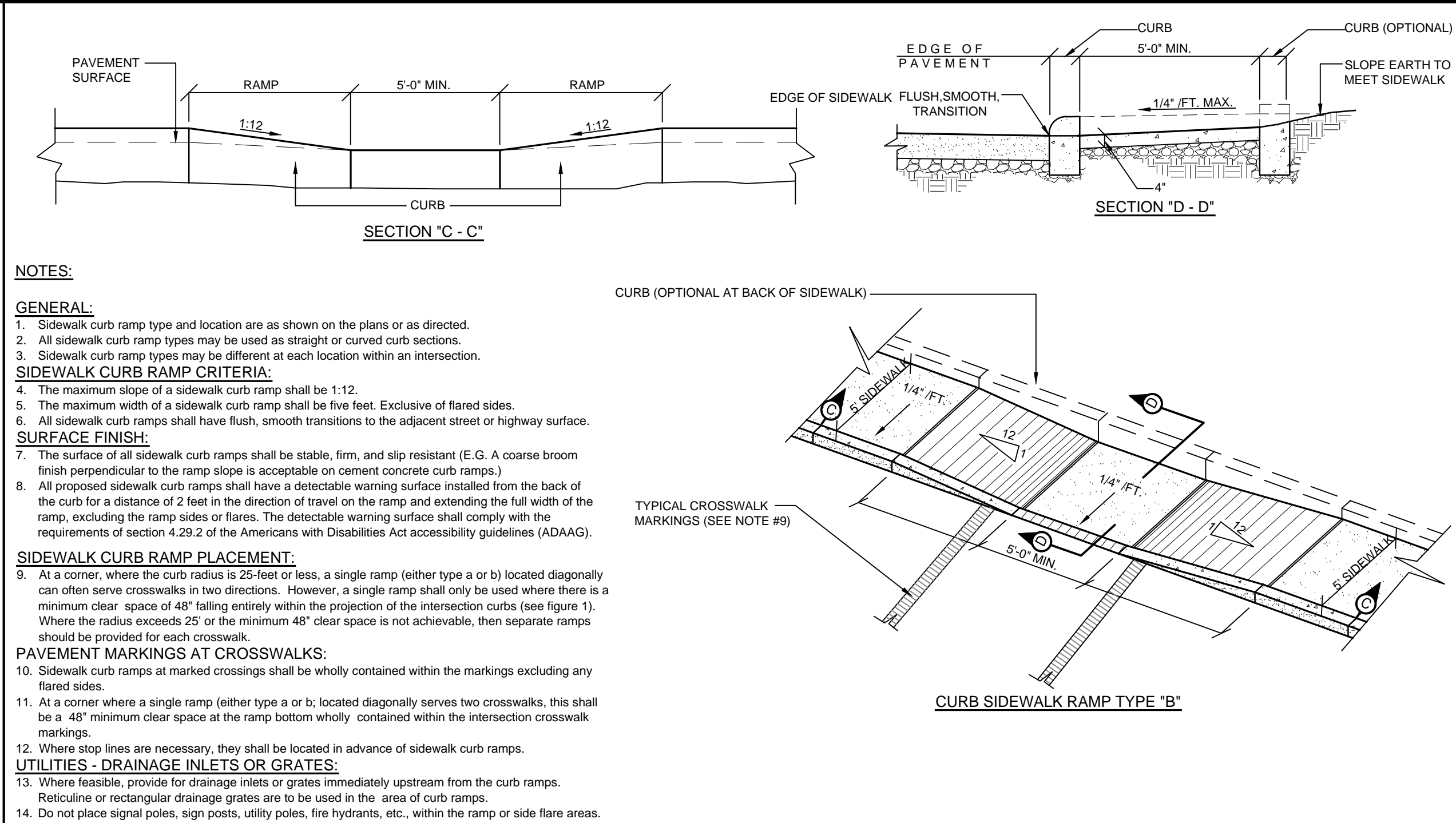
- All signage shall be in accordance with the latest edition of the national MUTCD and the N.Y.S Supplement (MUTCD), September 2007, including the following:
 - A. Letter size and series
 - B. Legend and background color
 - C. Reflectivity
 - D. Size of sign
- The type of characters as specified in the standard specifications shall be as follows:
 - MUTCD CODE LETTER
 - TYPE OF CHARACTER
 - G.I.
 - TYPE IV OR V
 - R.P.W.M.
 - TYPE IV OR V
- Sign locations as shown on plans are approximate. The Contractor shall relocate existing signs and install new signs in accordance with the MUTCD, latest edition. The Contractor shall contact the Town Engineer to discuss/resolve problem areas.
- Except where otherwise specified, parking signs shall be placed facing approaching traffic at an angle of between 30 and 45 degrees with the line of traffic flow. Parking signs shall be placed at each end of a regulation (single-headed arrows) and, within the regulation (double-headed arrows), at intervals not to exceed 200 ft.
- Where new signs are installed the Contractor shall affix a label to the back of the sign panel. This label will show the date of installation and identification numbers.
- Placement of W3-17 sign is prescribed in the General Municipal Law.



R-4

CONCRETE CURB DETAIL

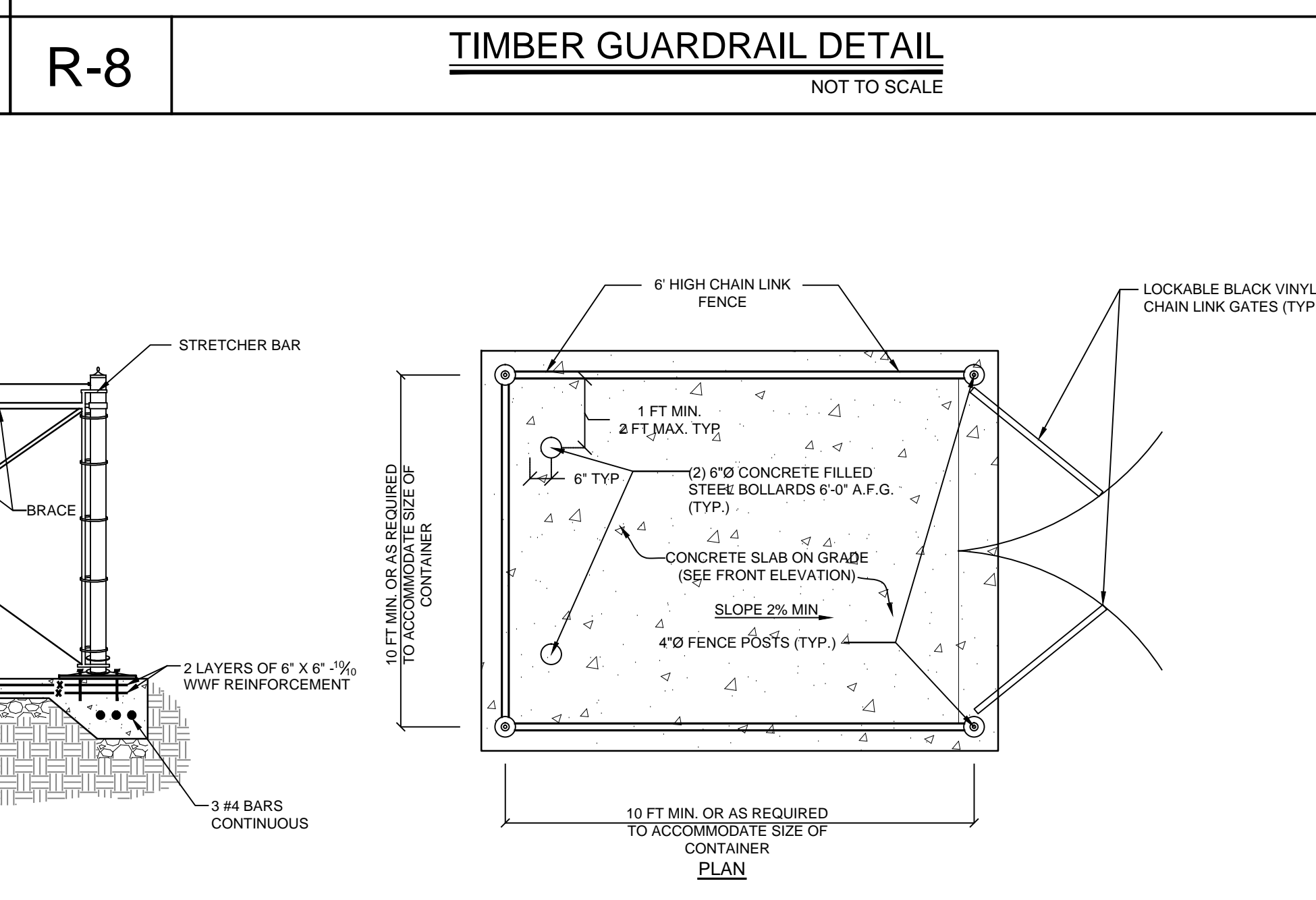
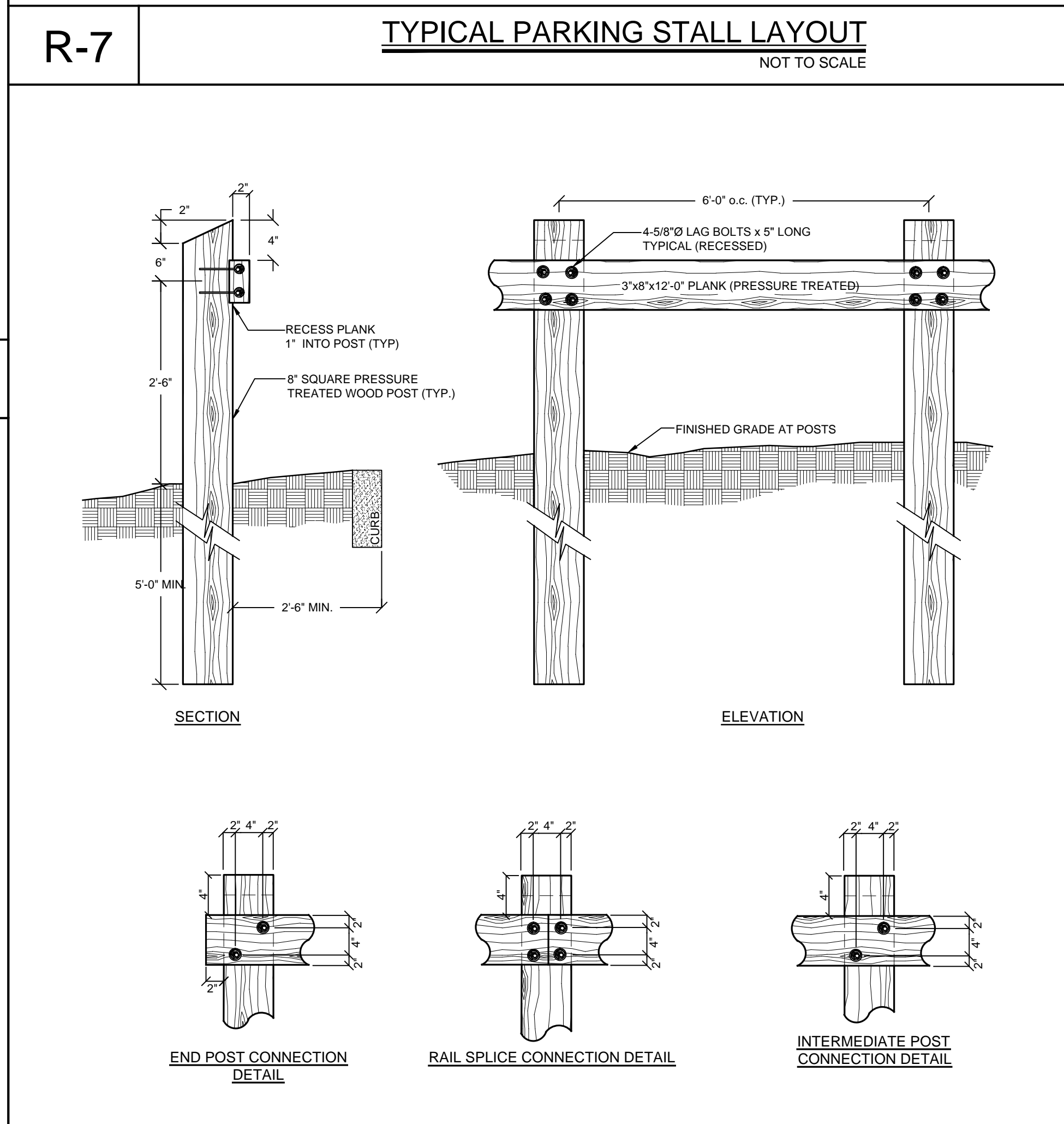
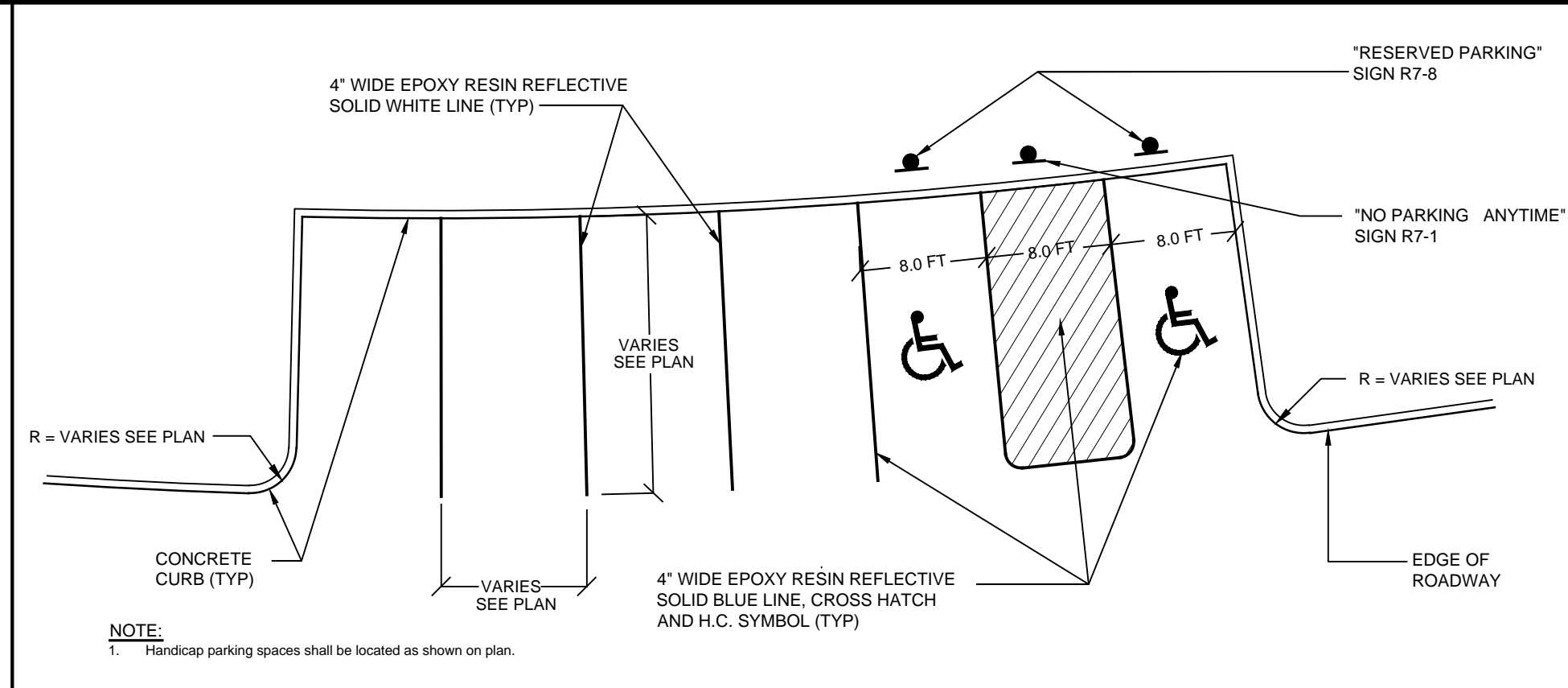
NOT TO SCALE



S-1

TRASH ENCLOSURE DETAIL

NOT TO SCALE



R-8

TIMBER GUARDRAIL DETAIL

NOT TO SCALE

NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

Site Design Consultants
Civil Engineers • Land Planners
251-F Underhill Avenue, Yorktown Heights, NY 10598
(914) 962-4488 - Fax: (914) 962-7386
www.sitedesignconsultants.com

Engineer:
Joseph C. Rina, P.E.
NYS Lic. No. 64431

Revisions:	No.	Date	Comments
	1	11/9/15	Town Comments
	2	12/7/15	Town Comments
	3	1/25/16	Town Comments
	4	4/8/16	Town Comments
	5		Town Comments

SCALE: N.T.S.

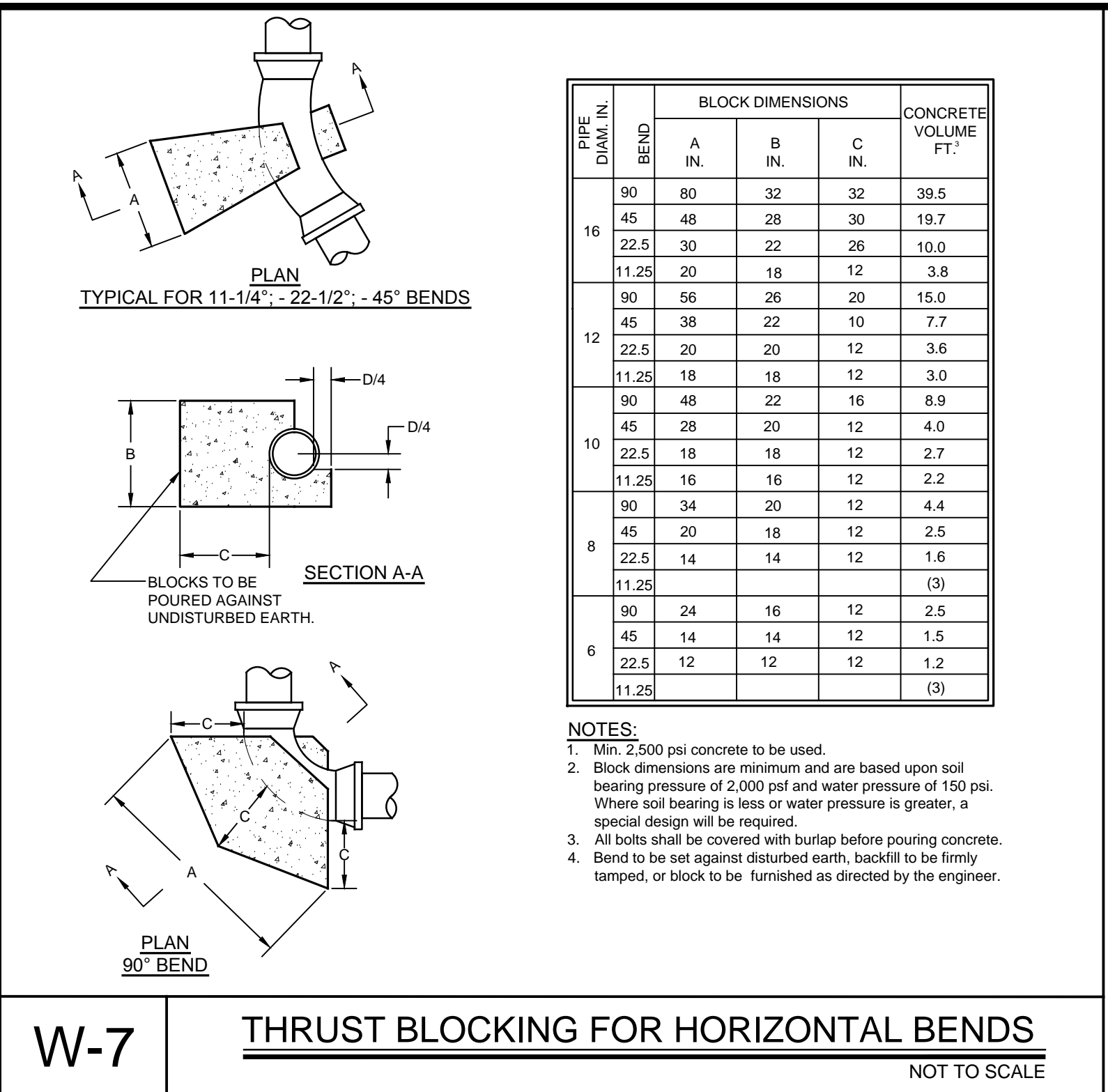
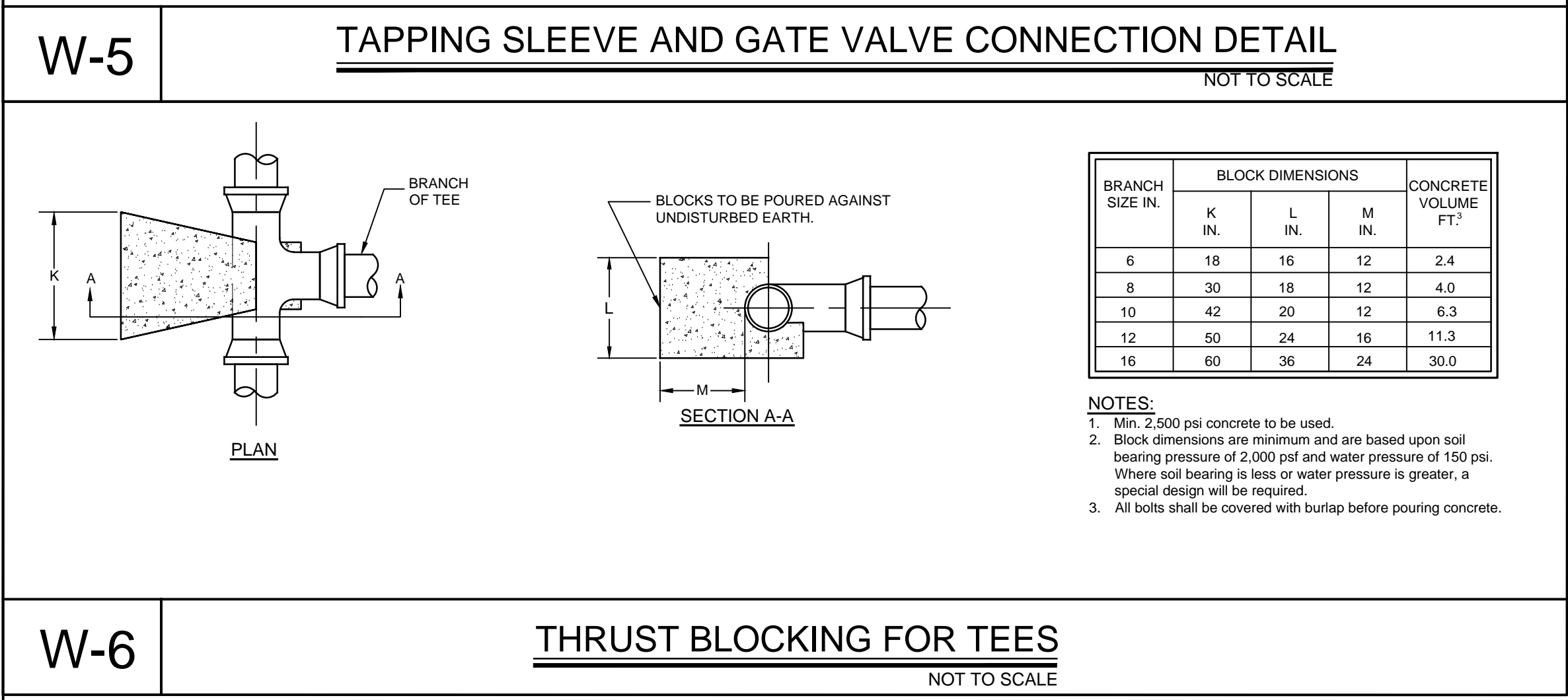
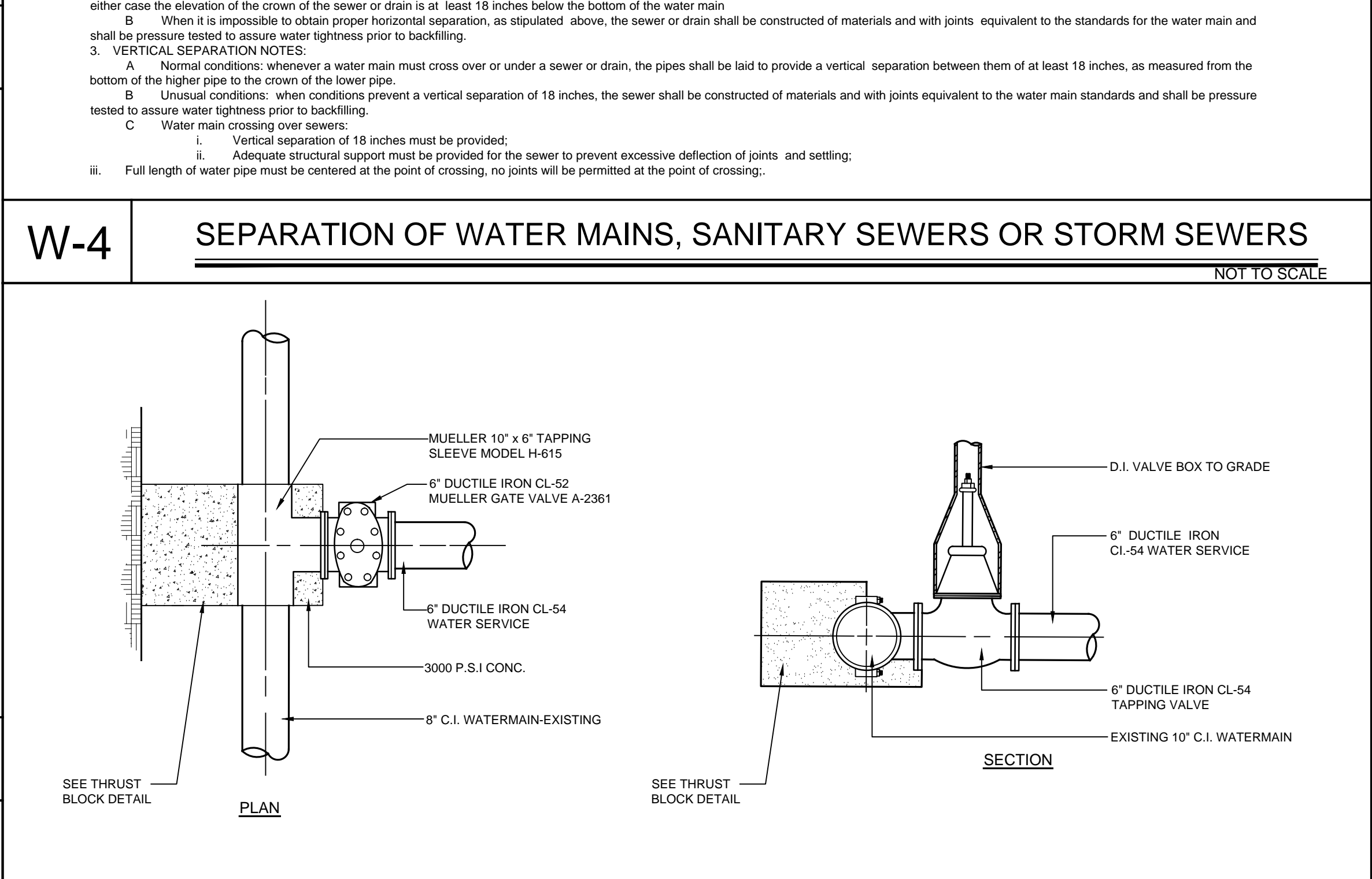
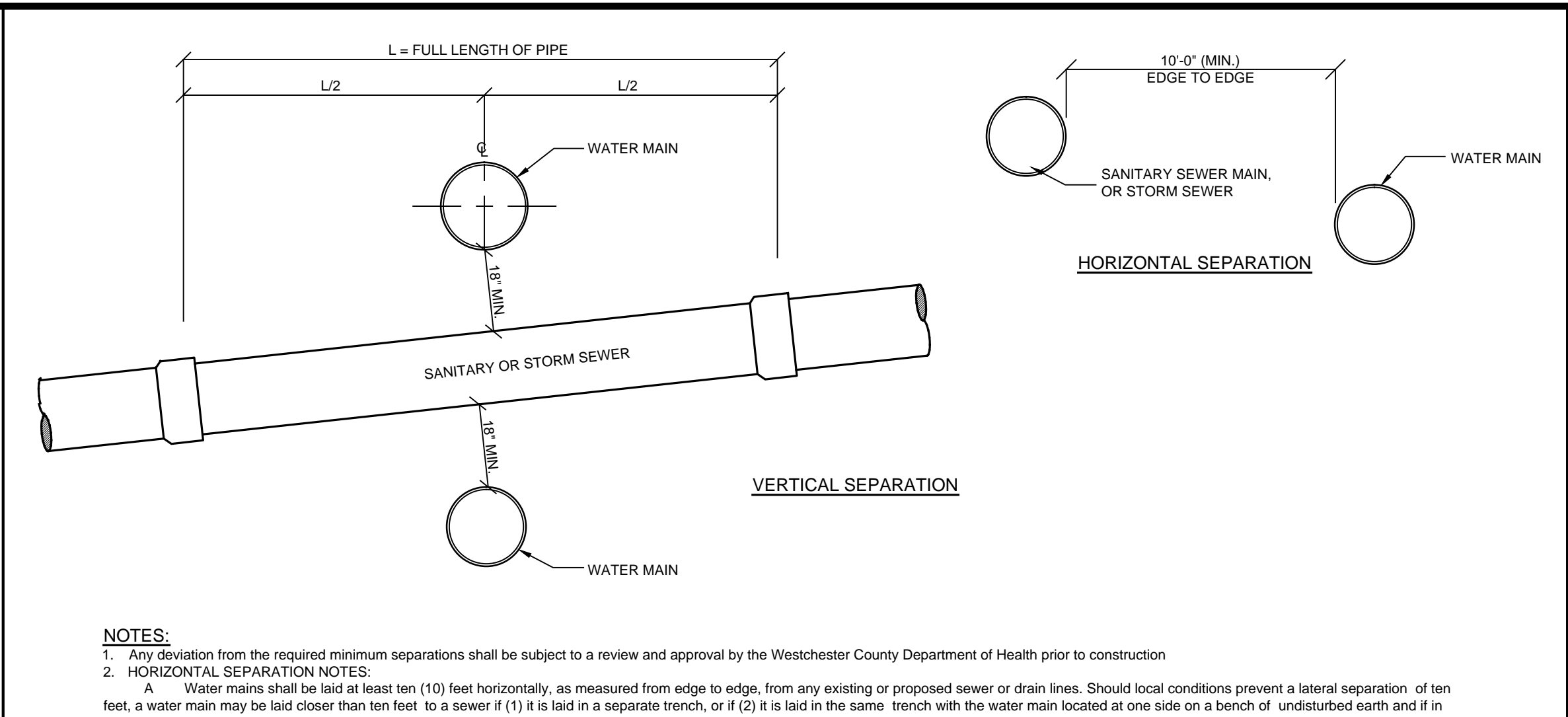
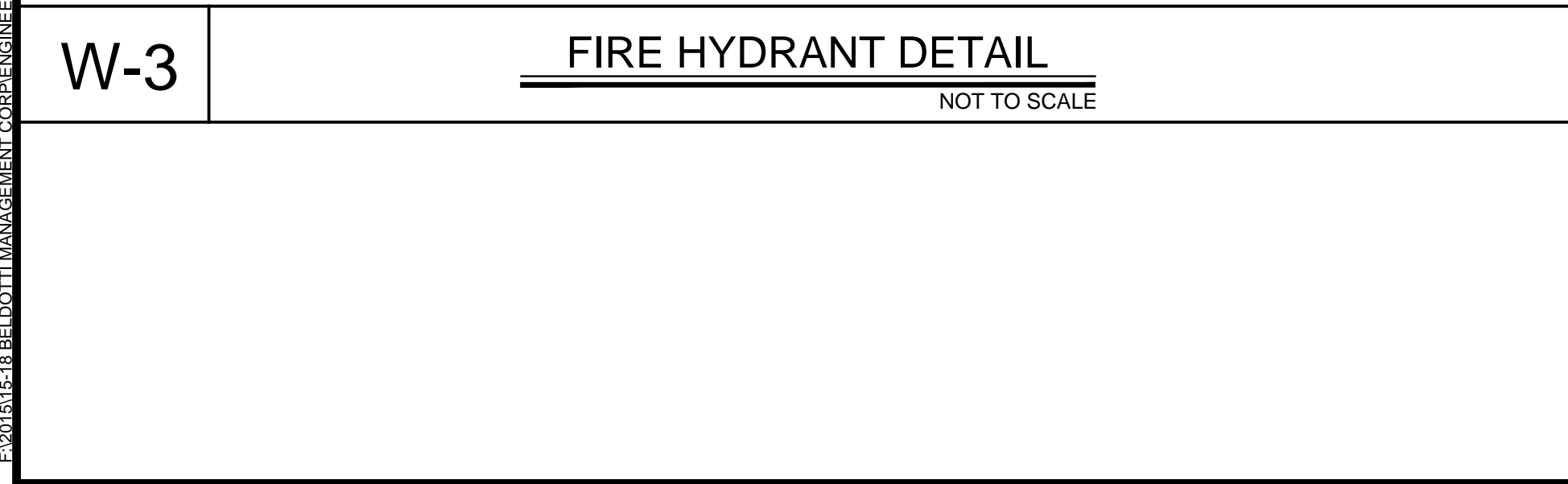
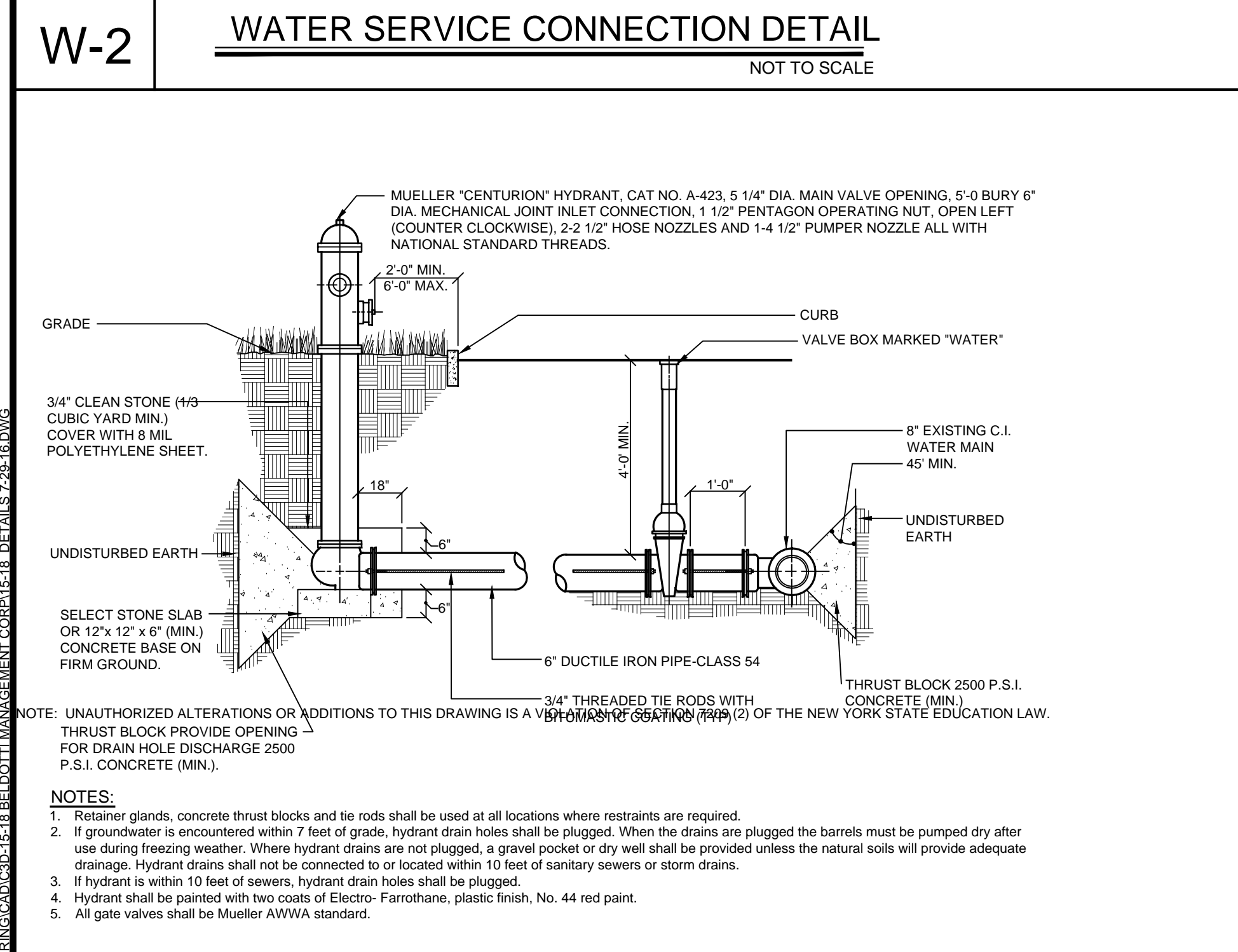
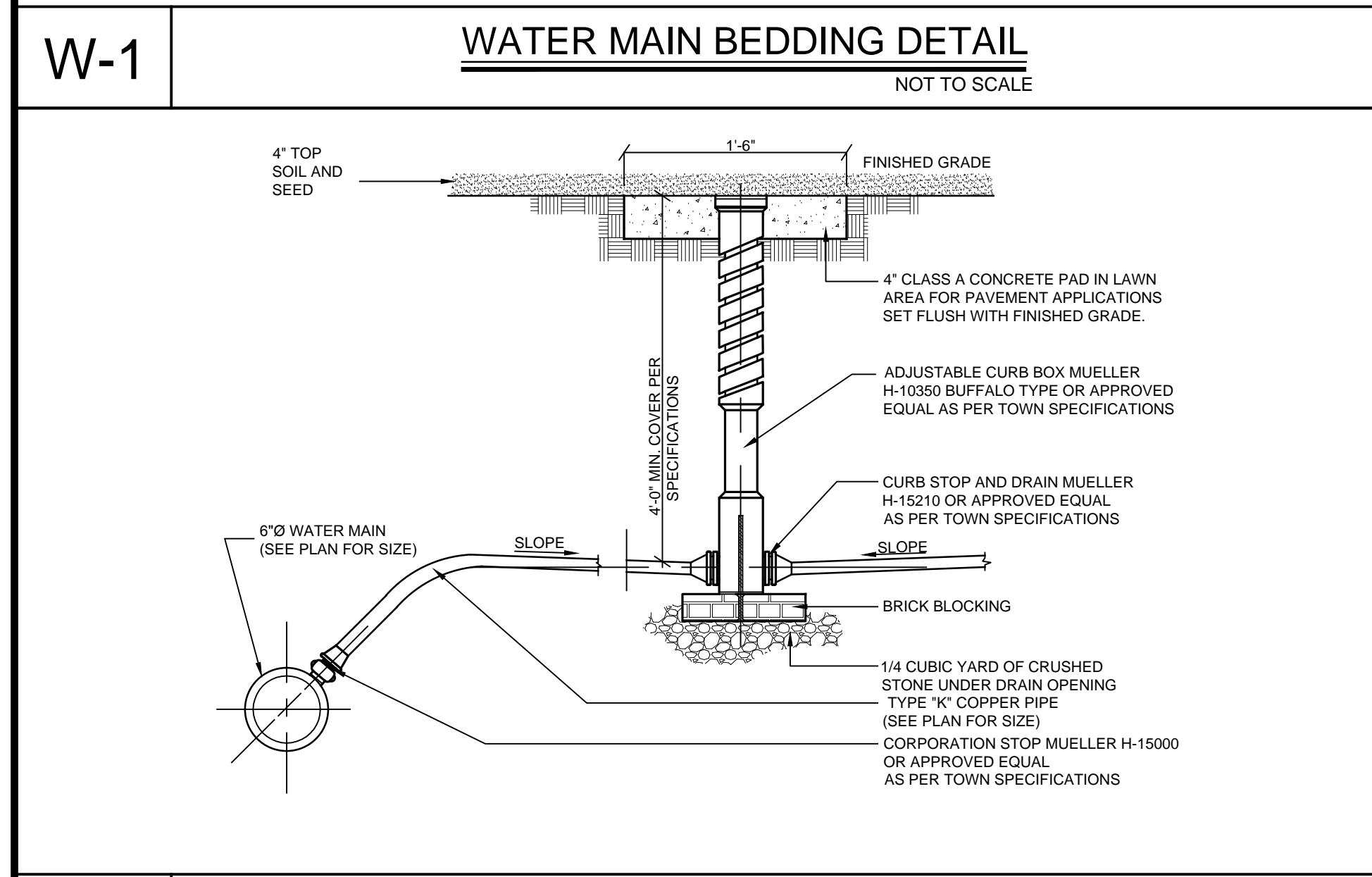
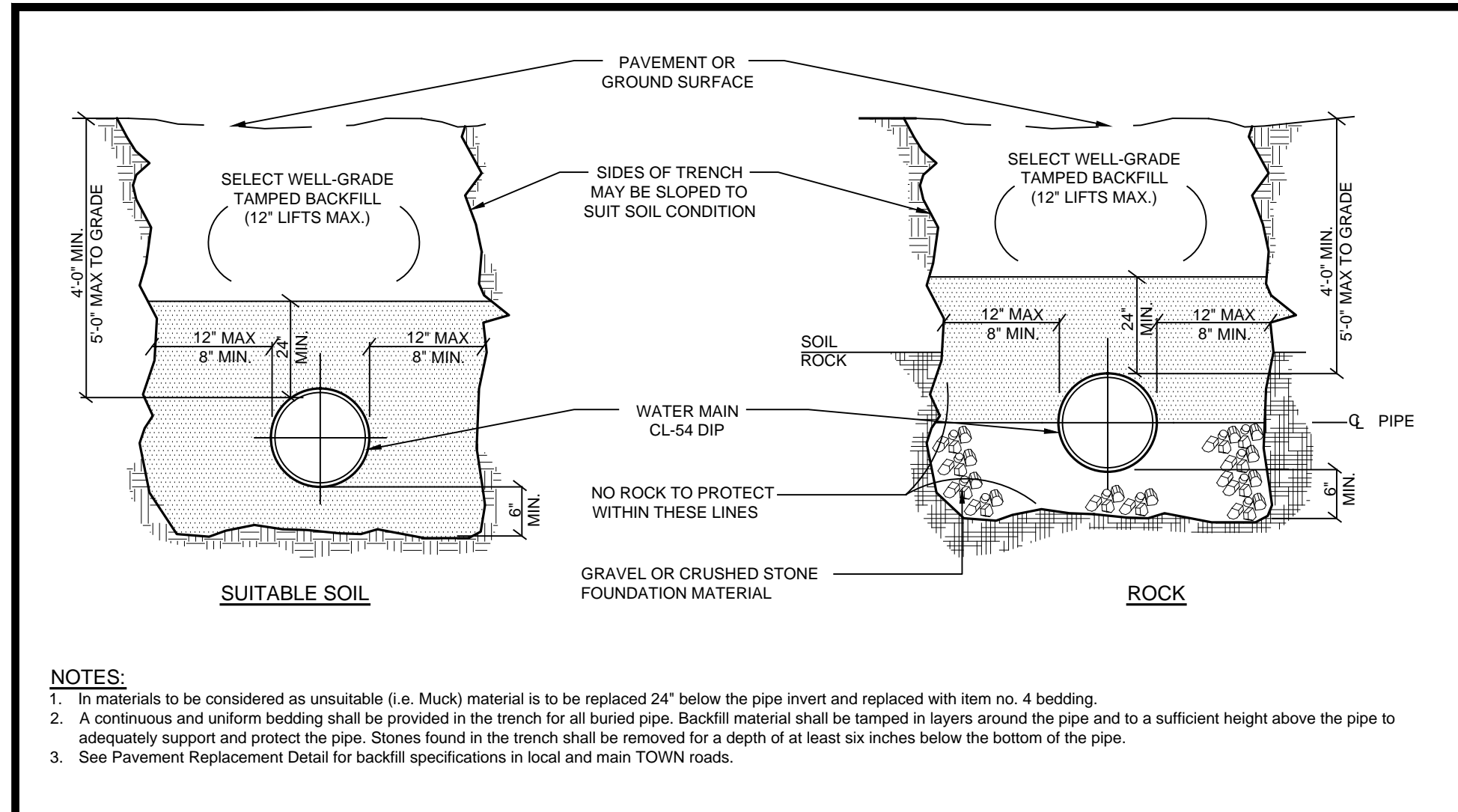
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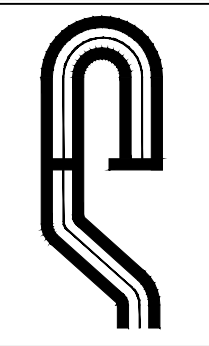
DATE: 9/25/15

DETAILS

SITE PLAN PREPARED FOR
PARTH KNOLLS LLC.
87 HAWKES AVENUE
Town of Ossining
Westchester County, NY

Sheet
C-502





PROJECT # 15-18

Site Design Consultants

Civil Engineers • Land Planners

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(914) 962-4488 - Fax: (914) 962-7386

www.sitedesignconsultants.com

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SCALE: NTS

DRAWN BY: TK

DATE: 9/25/15

SITE PLAN PREPARED FOR

PARTH KNOLLS LLC.

87 HAWKES AVENUE

Town of Ossining

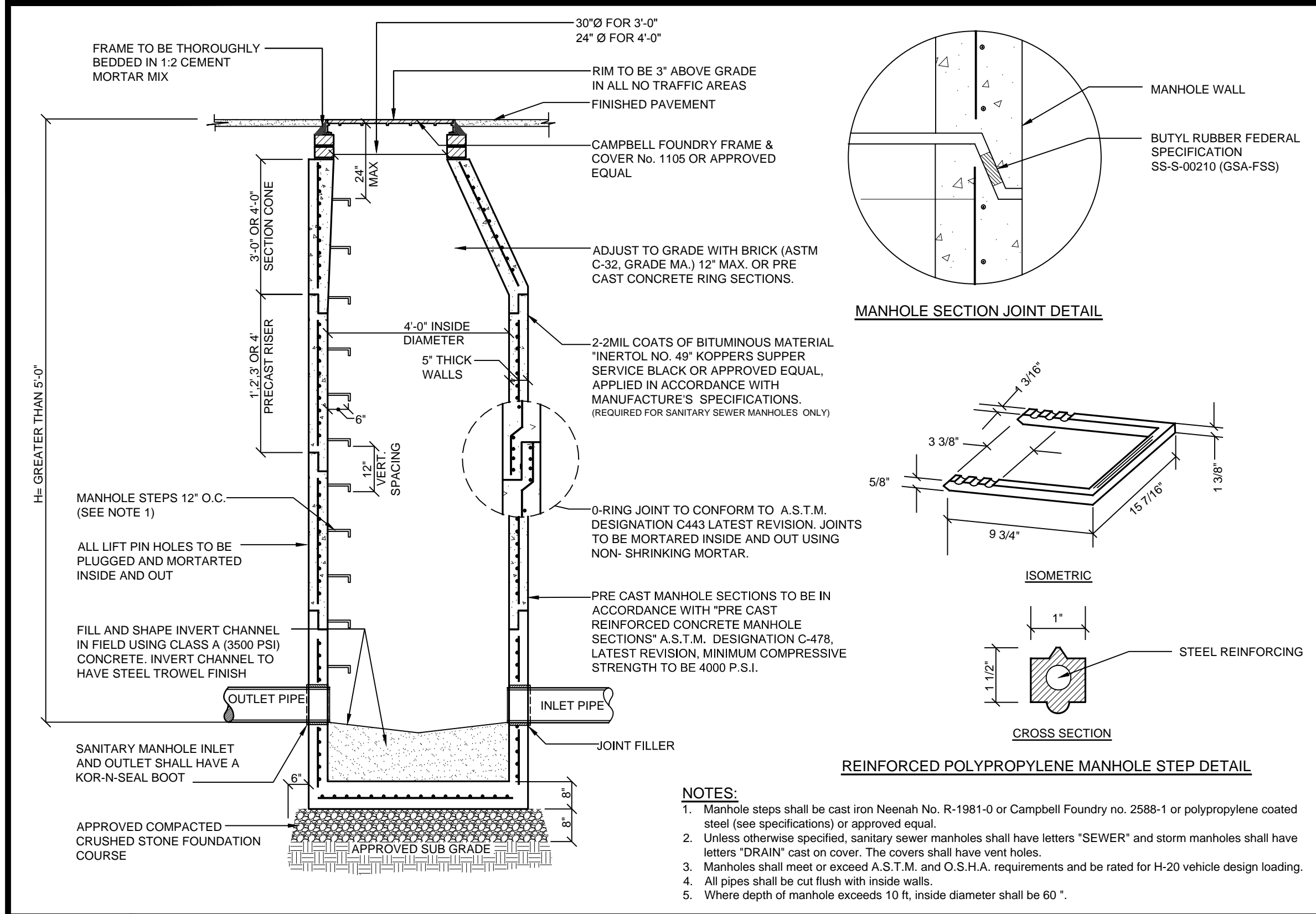
Westchester County, NY

Sheet

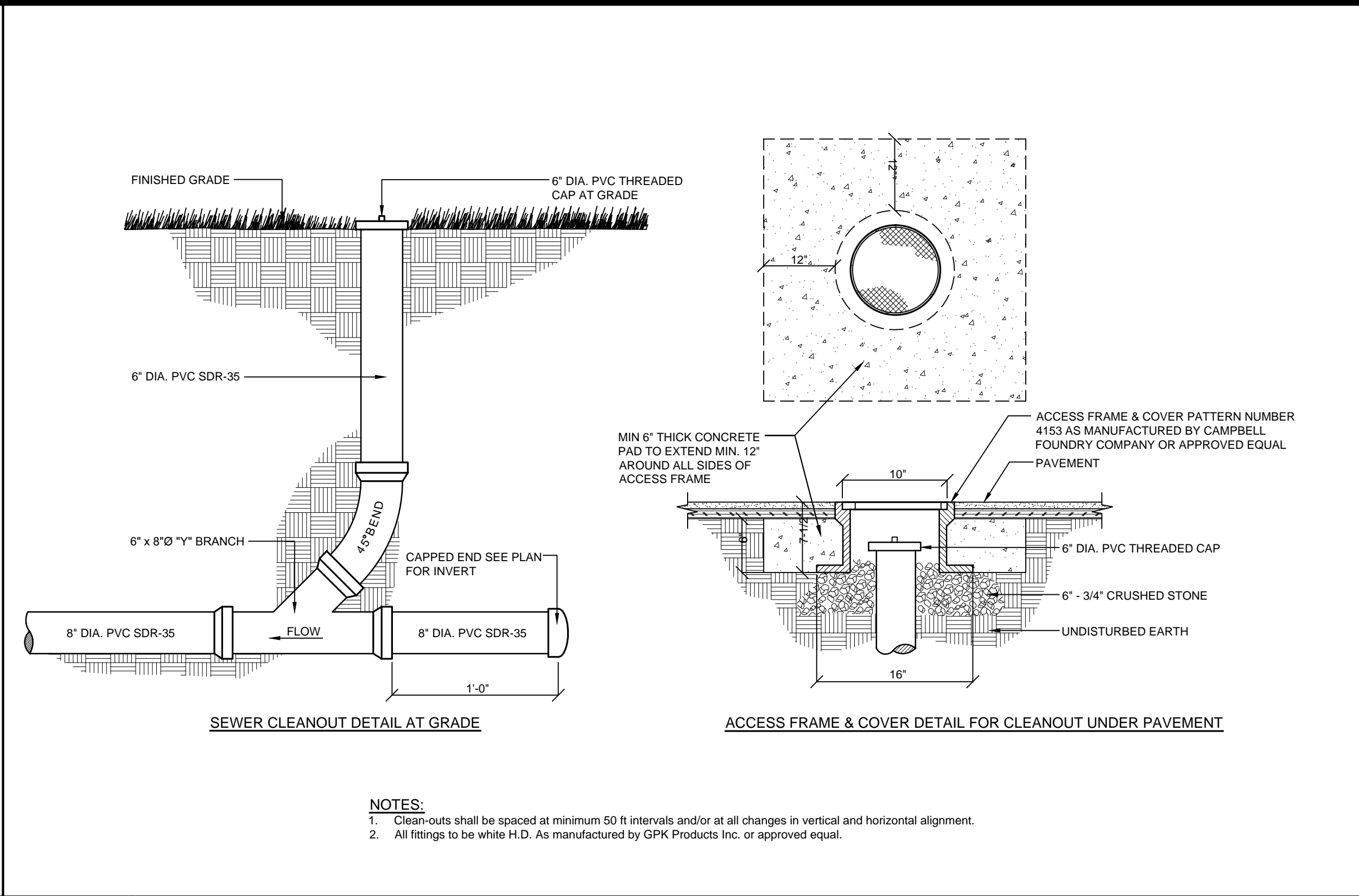
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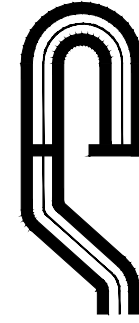
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S-1 PRECAST CONCRETE SEWER MANHOLE DETAIL NOT TO SCALE



S-2 GRAVITY SEWER LATERAL CLEAN-OUT DETAIL NOT TO SCALE



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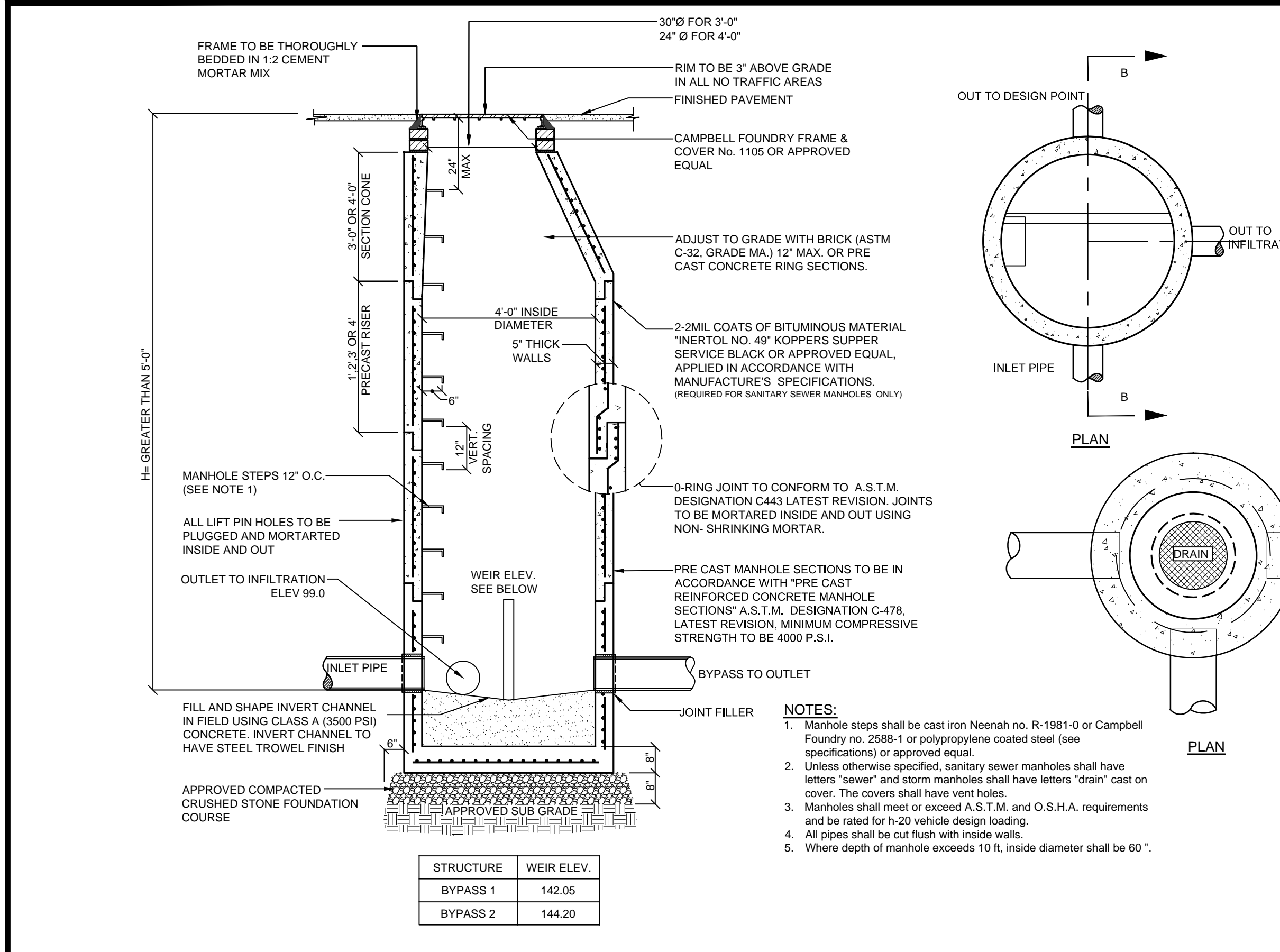
SCALE: NTS	DRAWN BY: TK	DATE: 9/25/15
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SANITARY SEWER DETAILS

SITE PLAN PREPARED FOR
PARTH KNOLLS LLC.
87 HAWKES AVENUE
Town of Ossining
Westchester County, NY

Sheet
C-504

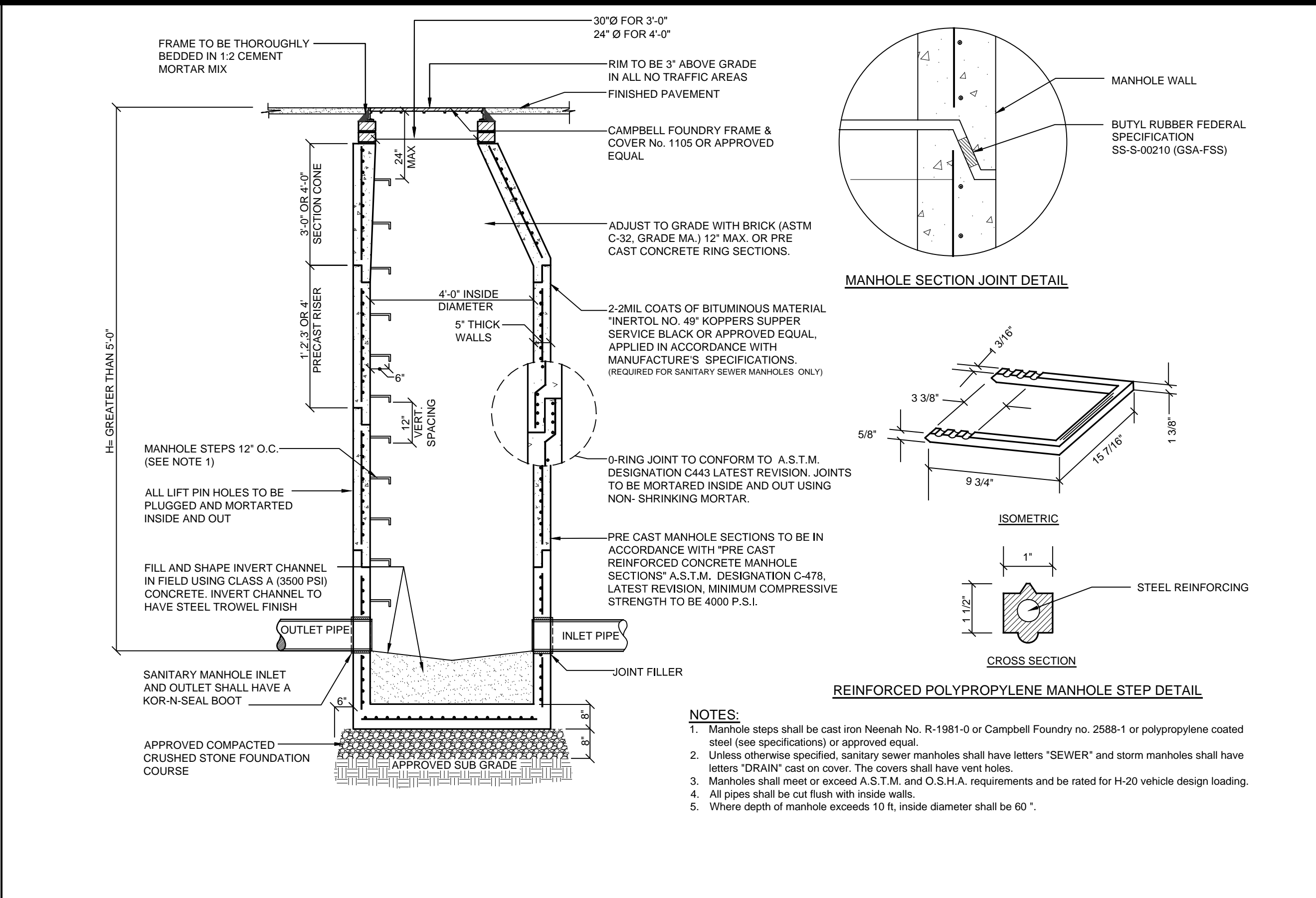
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STORM BYPASS STRUCTURE DETAIL

NOT TO SCALE

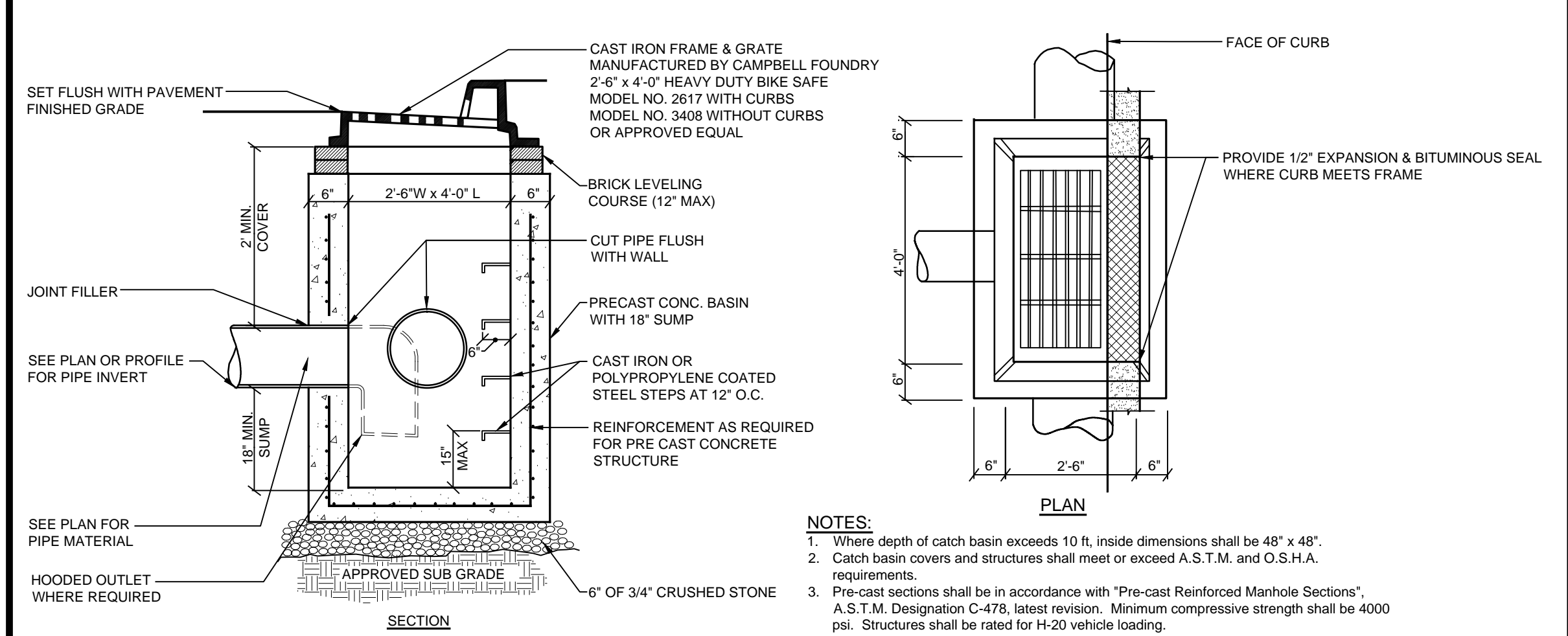
D-1



PRECAST CONCRETE STORM DRAIN MANHOLE DETAIL

NOT TO SCALE

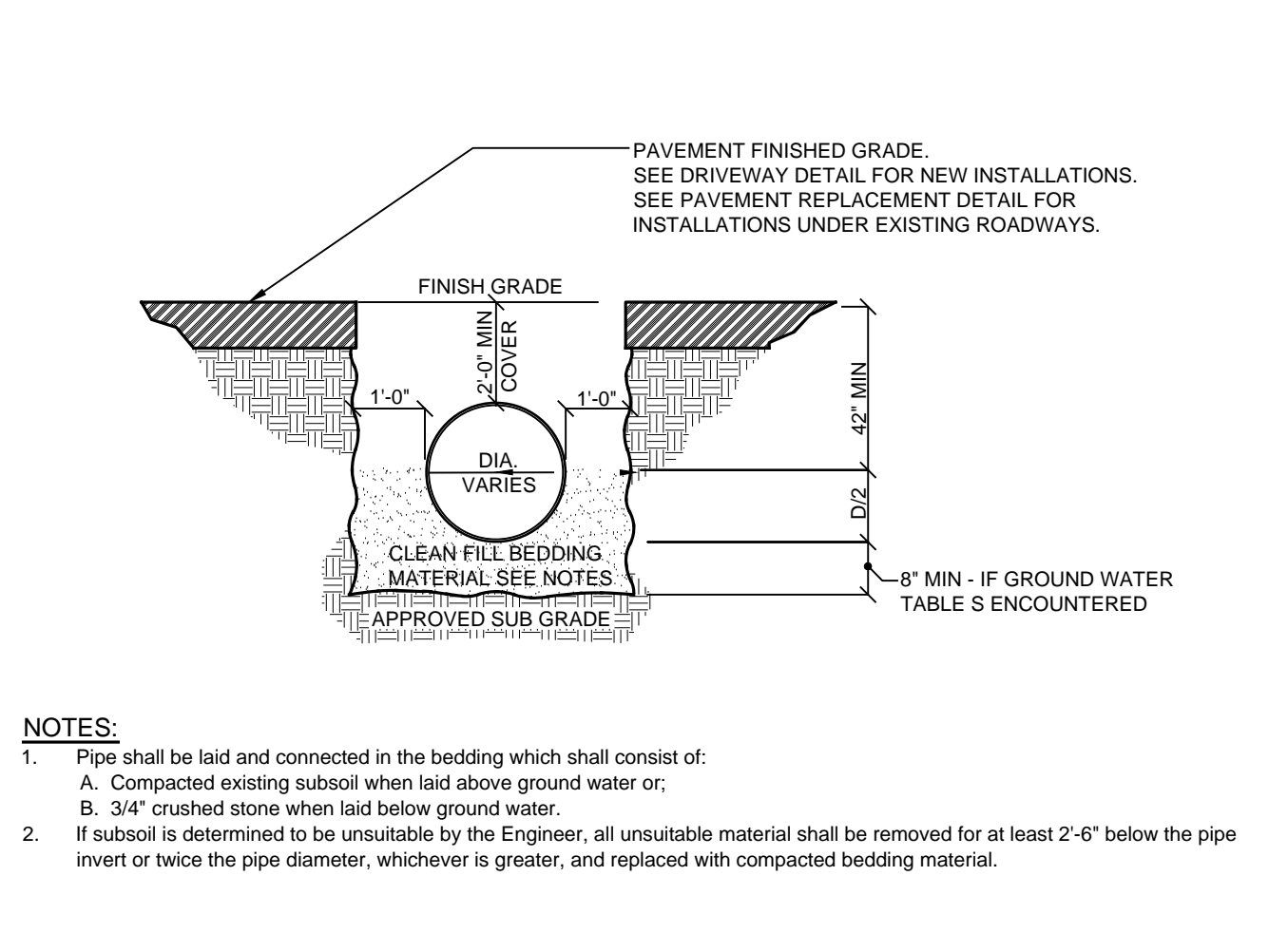
D-2



TYPICAL CATCH BASIN DETAIL

NOT TO SCALE

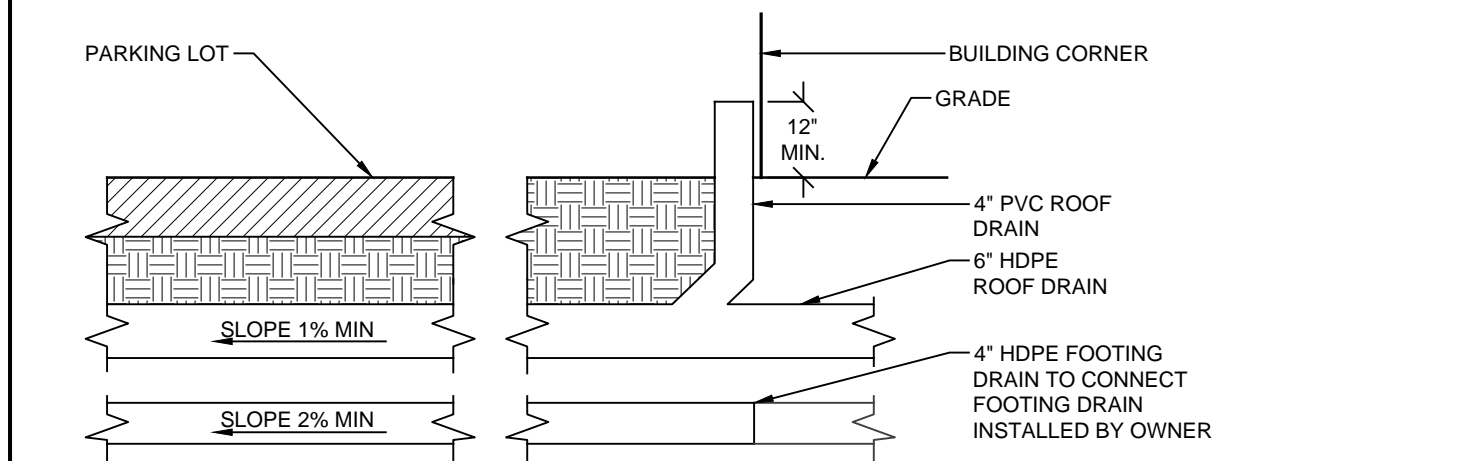
D-3



STORM PIPE BEDDING DETAIL

NOT TO SCALE

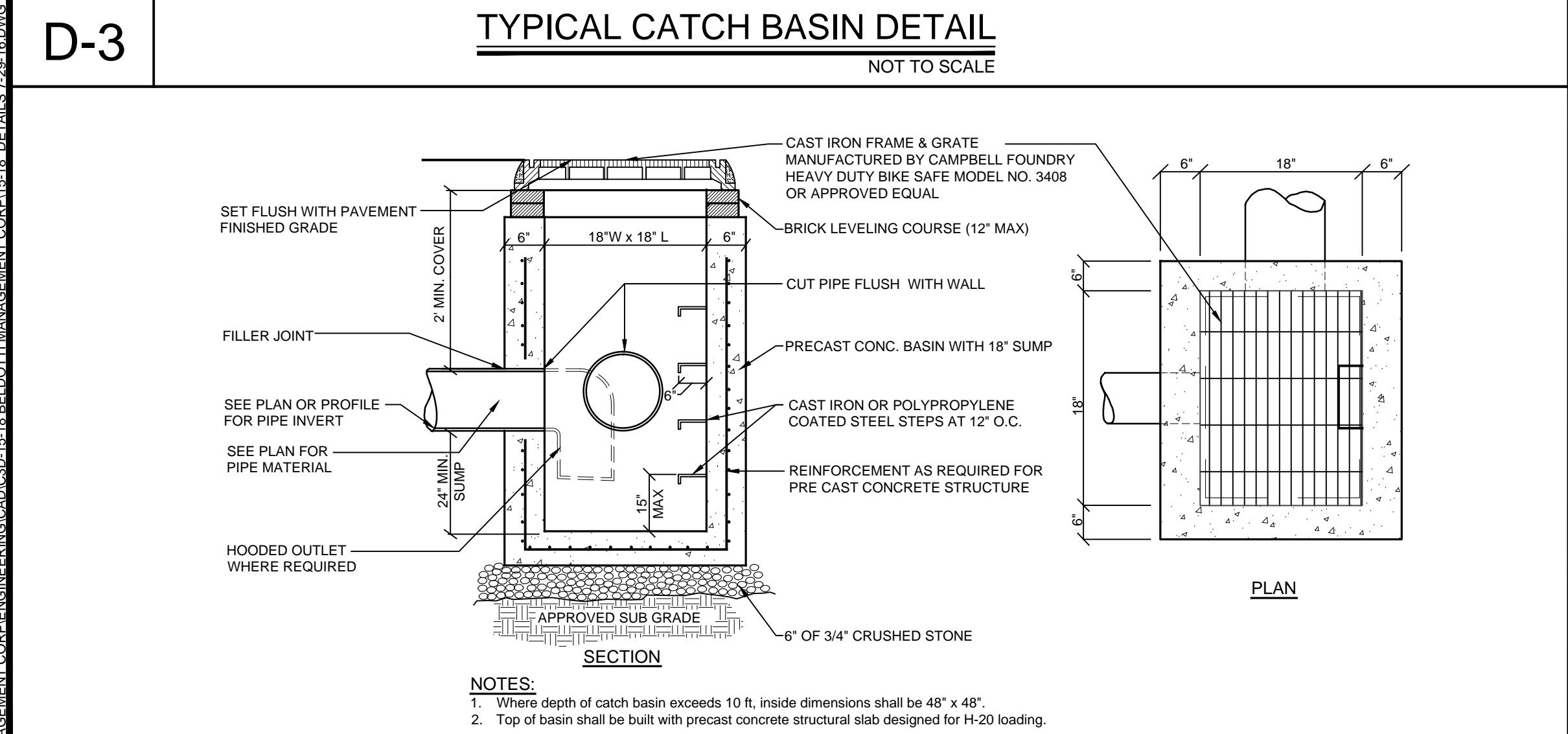
D-5



ROOF & FOOTING DRAIN CONNECTION DETAIL

NOT TO SCALE

D-6



PRECAST CATCH BASIN - DRAIN INLET DETAIL

NOT TO SCALE

D-4

PROJECT # 15-18

Site Design Consultants

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SCALE:	NTS

DRAWN BY:	TK

DATE:	9/25/15

SITE PLAN
PREPARED FOR

PARTH KNOLLS LLC.

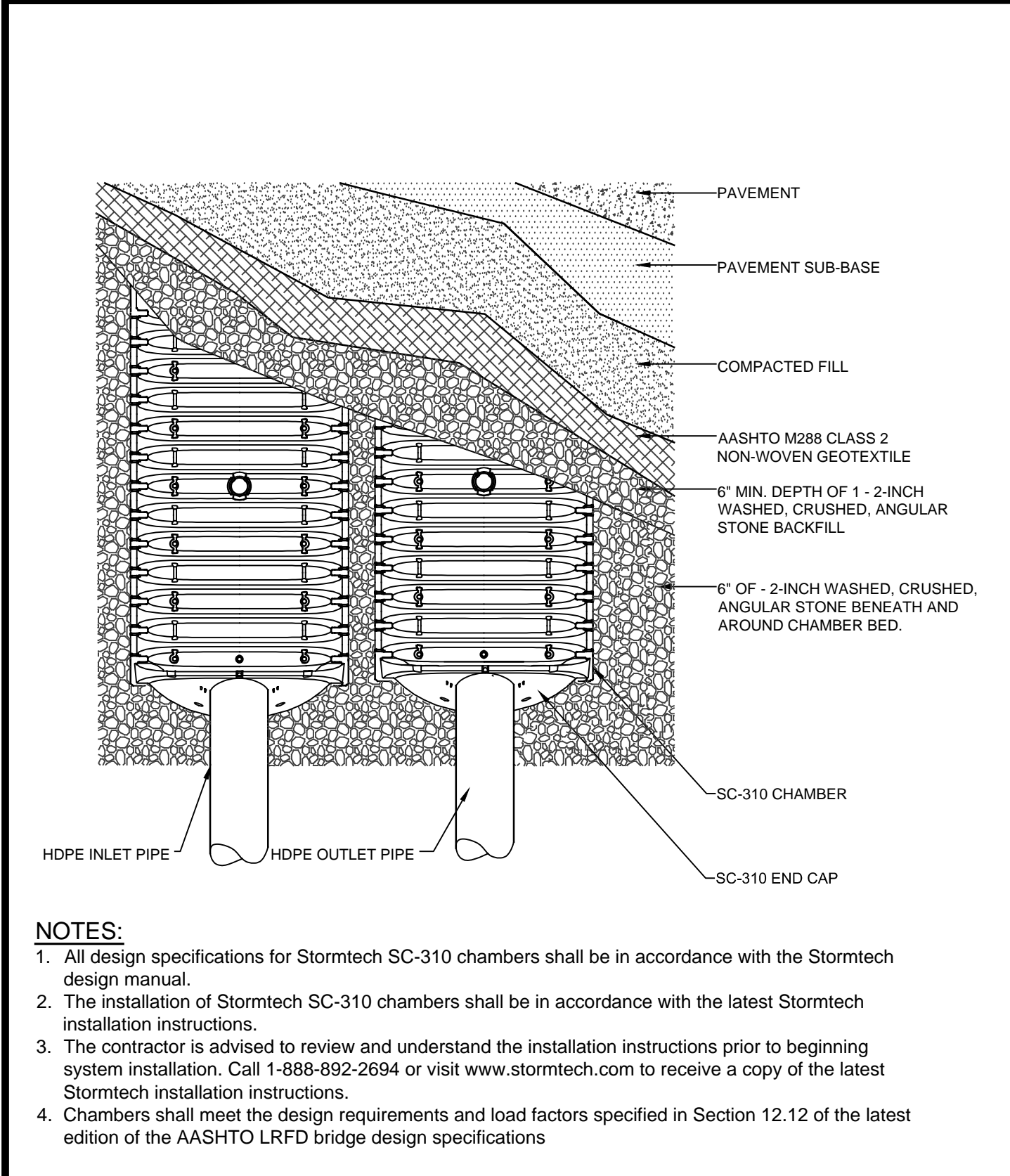
87 HAWKES AVENUE

Town of Ossining

Westchester County, NY

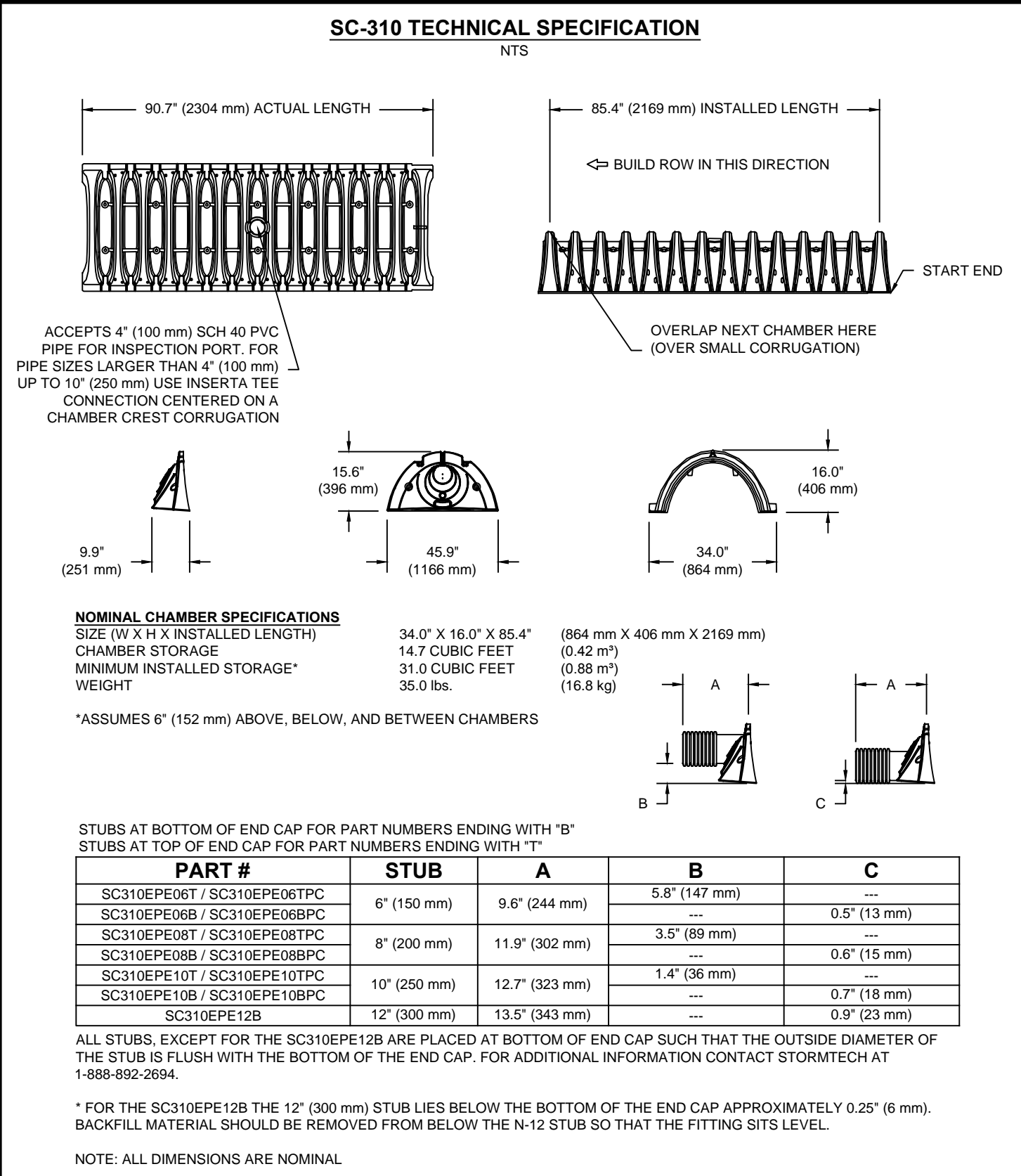
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C-505

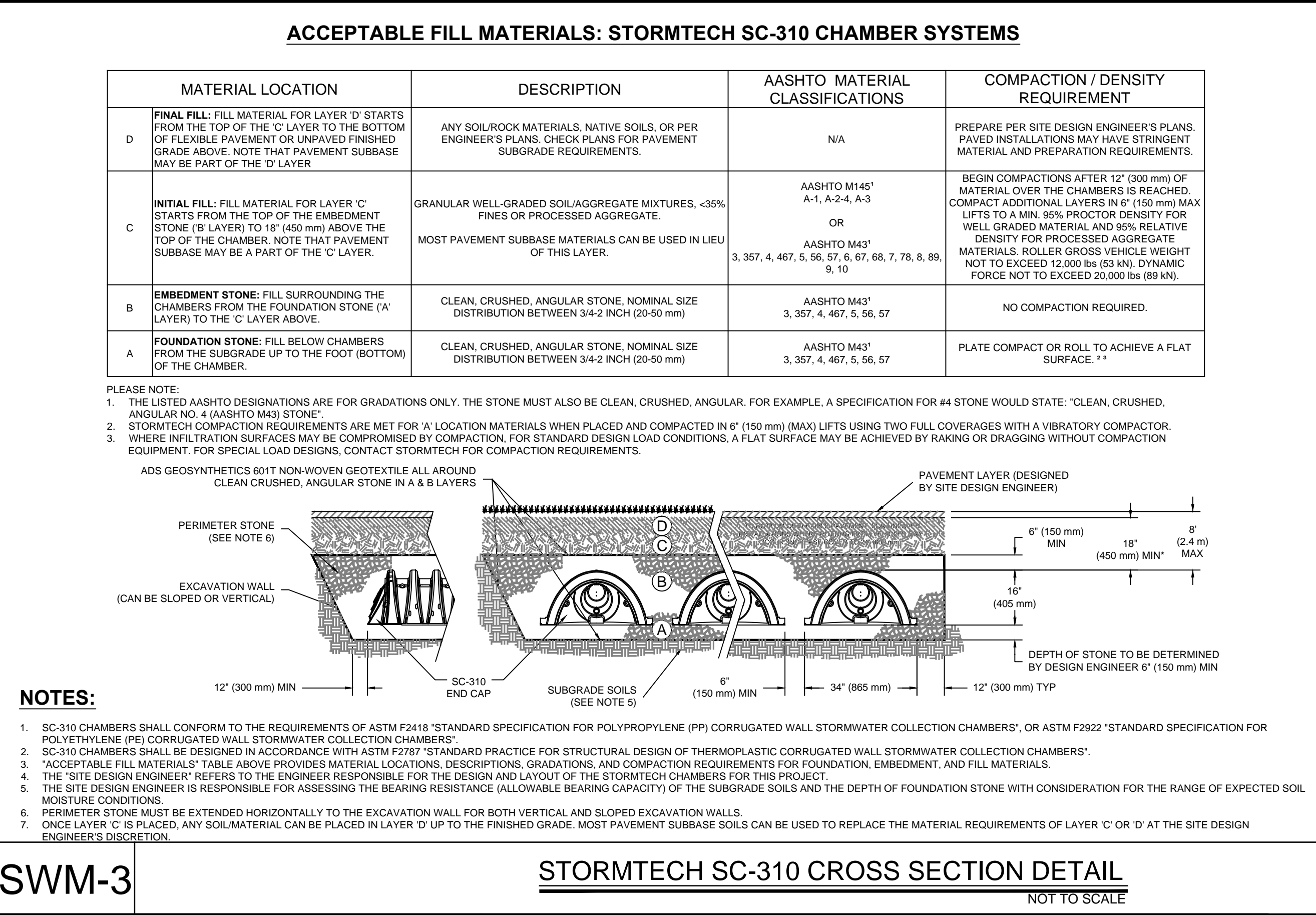


SWM-1 **STORMTECH SC-310 CHAMBER SYSTEM PLAN VIEW DETAIL**
NOT TO SCALE

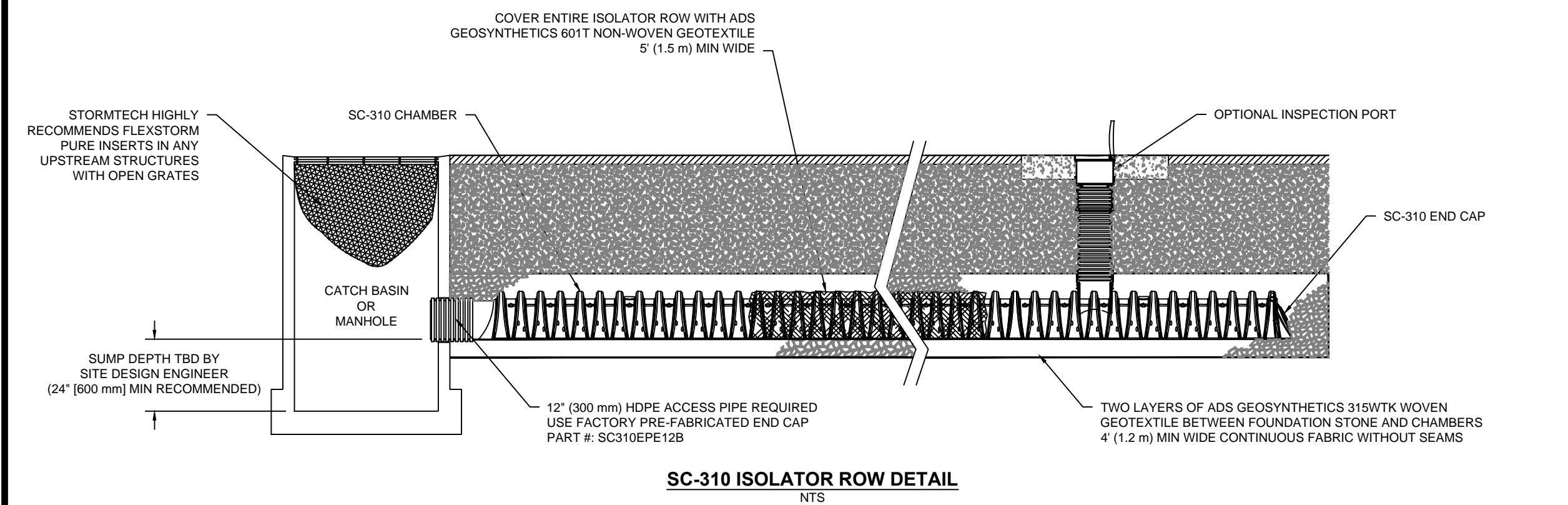
- NOTES:**
- All design specifications for Stormtech SC-310 chambers shall be in accordance with the Stormtech design manual.
 - The installation of Stormtech SC-310 chambers shall be in accordance with the latest Stormtech installation instructions.
 - The contractor is advised to review and understand the installation instructions prior to beginning system installation. Call 1-888-892-2694 or visit www.stormtech.com to receive a copy of the latest Stormtech installation instructions.
 - Chambers shall meet the design requirements and load factors specified in Section 12.12 of the latest edition of the AASHTO LRFD bridge design specifications



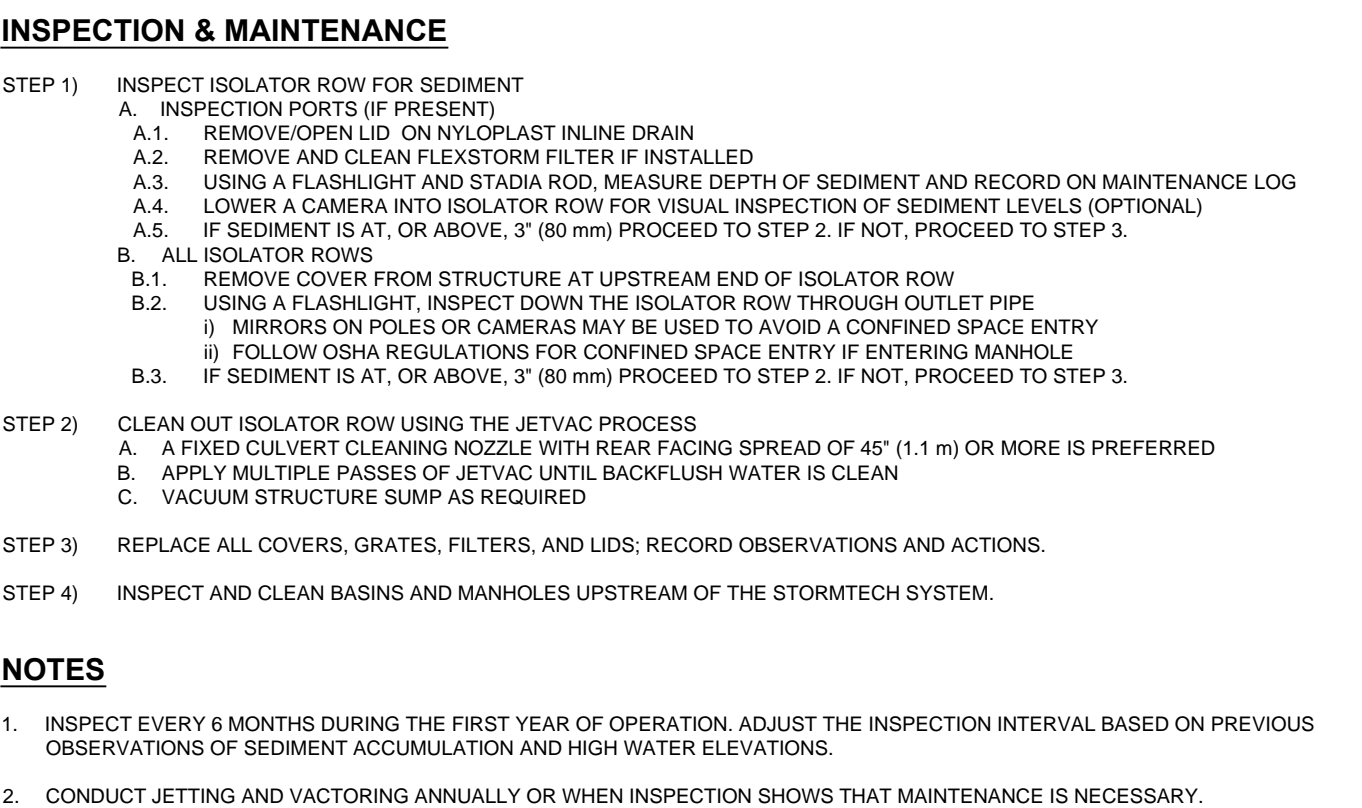
SWM-2 **STORMTECH SC-310 CHAMBER DETAIL**
NOT TO SCALE



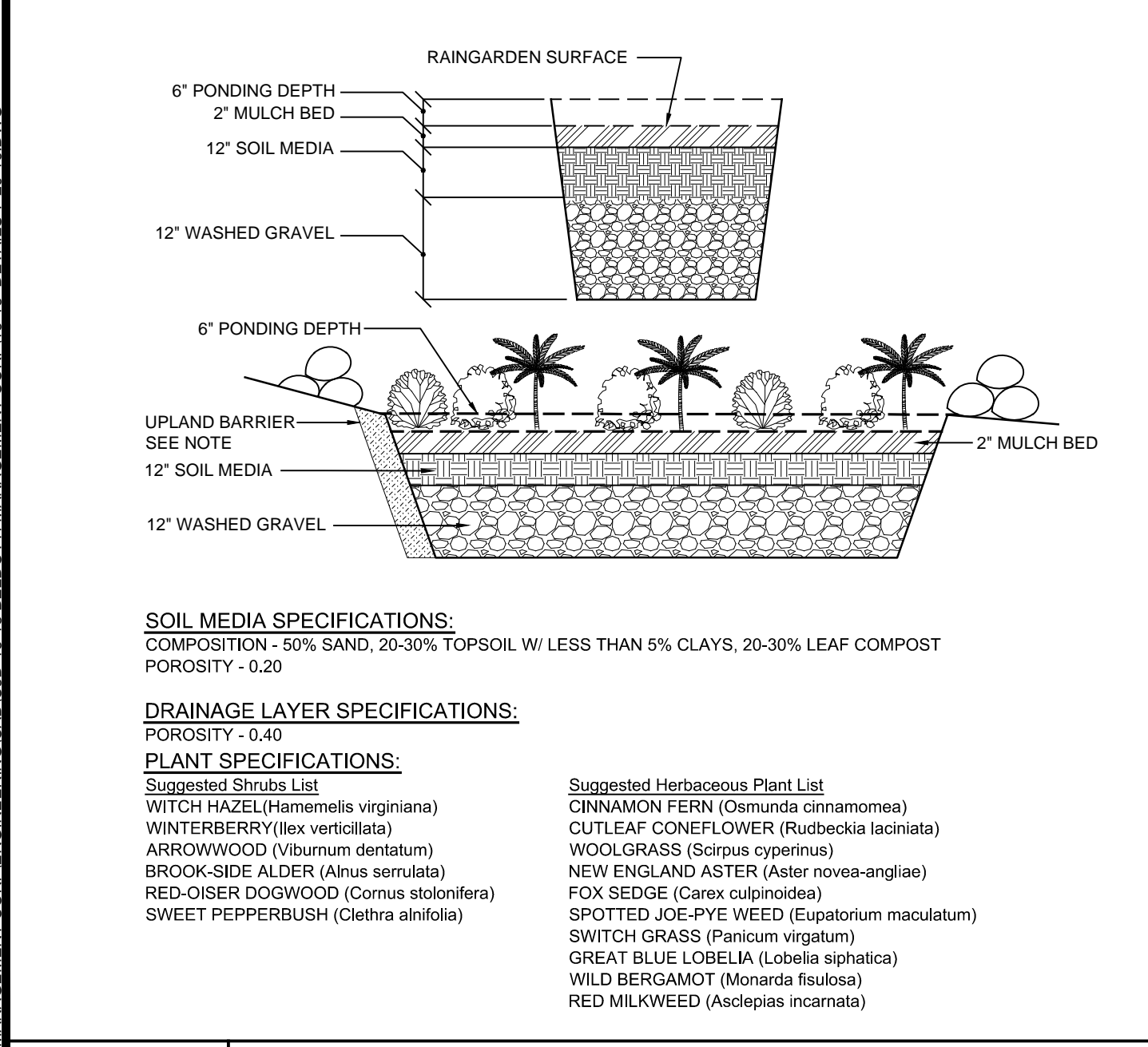
SWM-3 **STORMTECH SC-310 CROSS SECTION DETAIL**
NOT TO SCALE



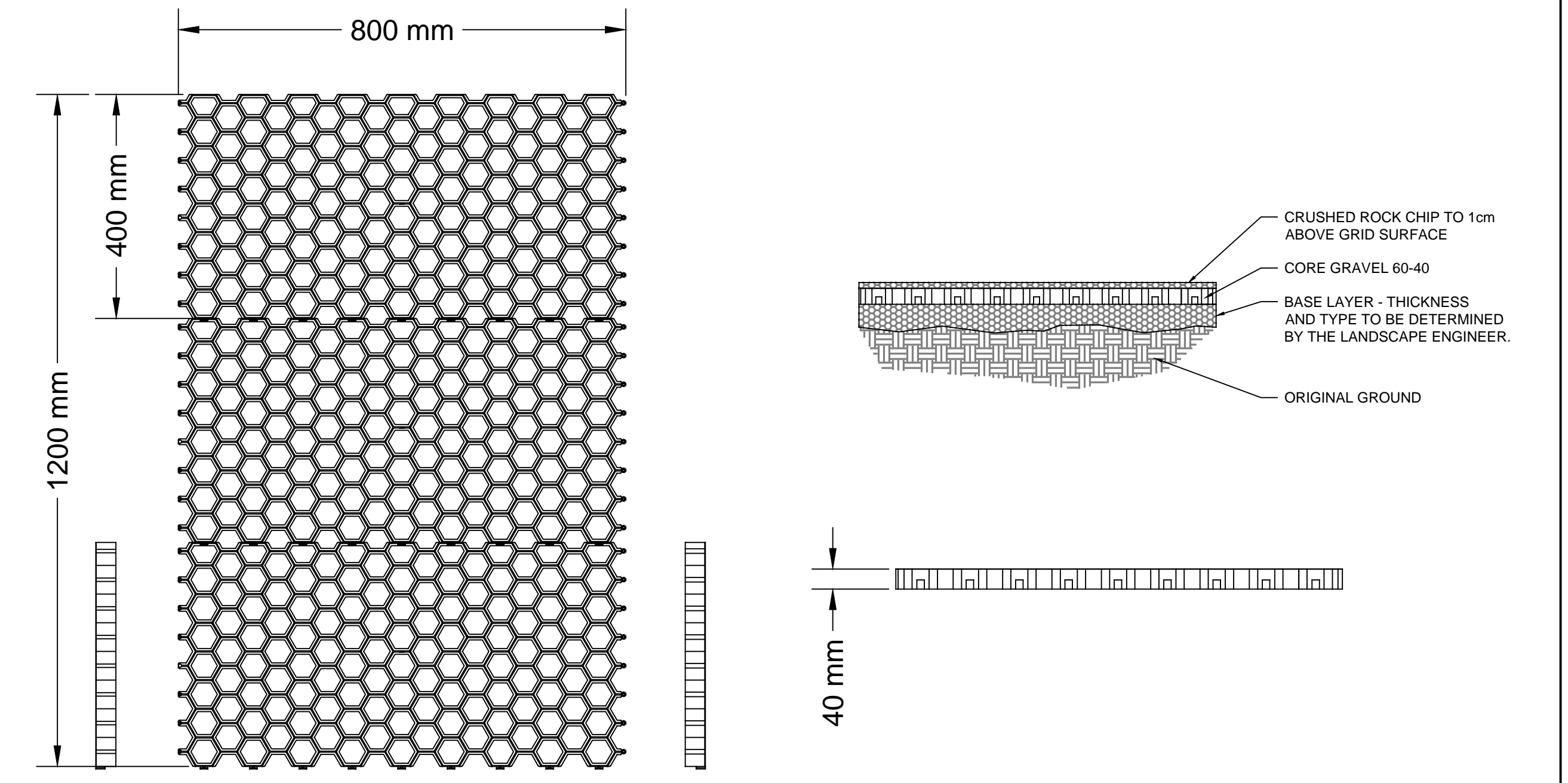
SWM-4 **STORMTECH SC-310 CHAMBER DETENTION ISOLATOR ROW DETAIL**
NOT TO SCALE



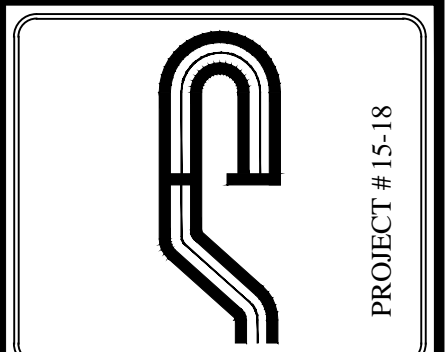
SWM-5 **STORMTECH FLUSING/INSPECTION PORT DETAIL**
NOT TO SCALE



SW-6 **RAIN GARDEN DETAIL**
NOT TO SCALE



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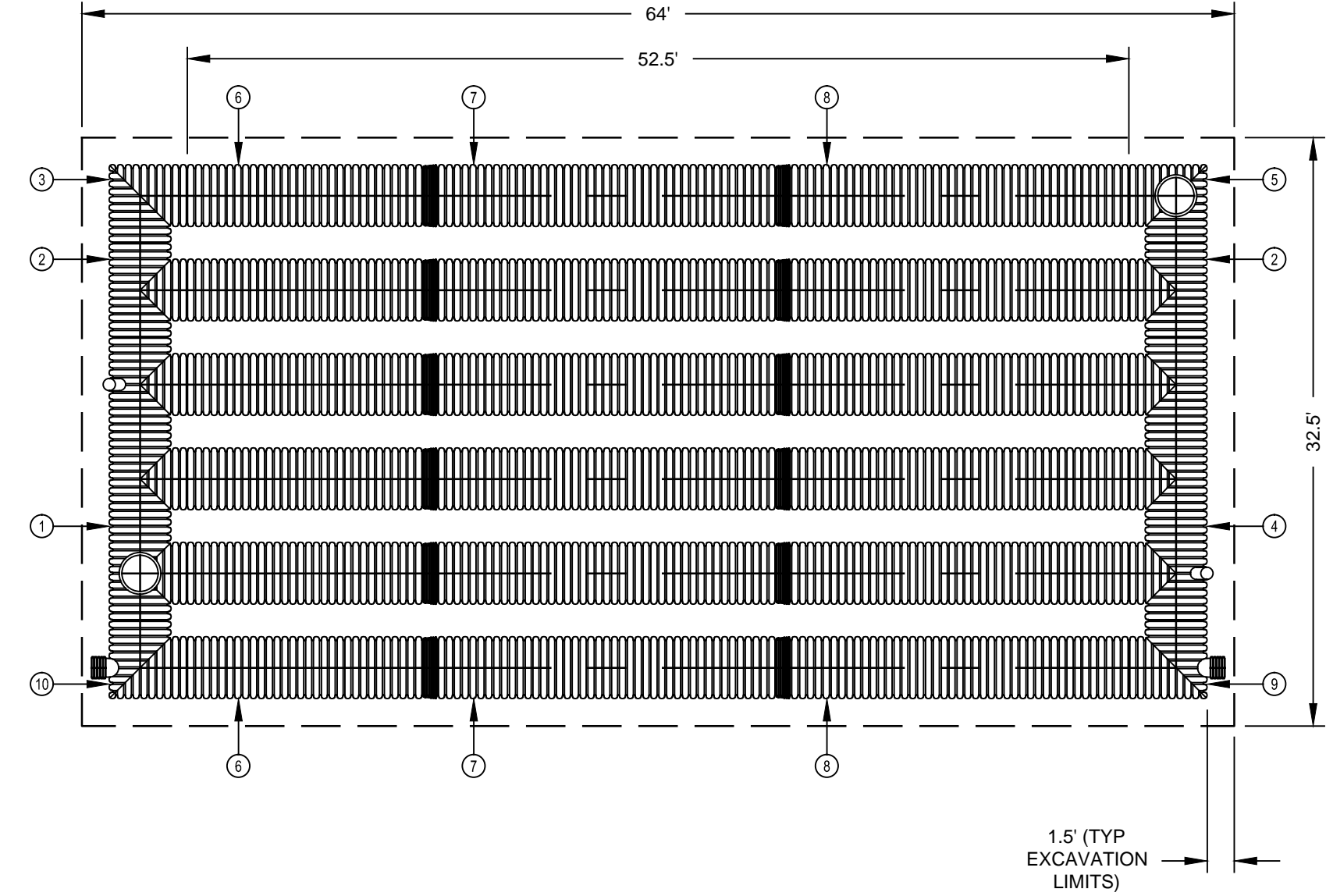
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SCALE: NTS
DRAWN BY: TK
DATE: 9/25/15

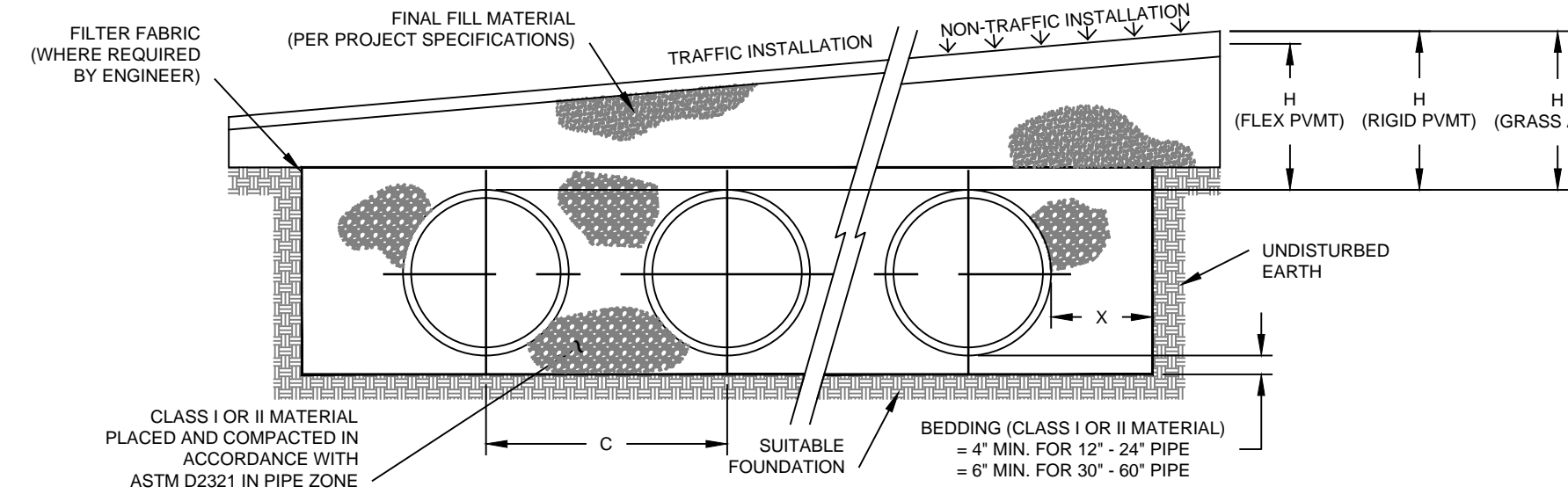
STORMWATER MANAGEMENT DETAILS

SITE PLAN PREPARED FOR
PARTH KNOLLS LLC.
87 HAWKES AVENUE
Westchester County, NY
Town of Ossining

Sheet
C-506



BILL OF MATERIALS		ITEM #		QTY	DESCRIPTION	UNIT	REMARKS
1	3653ANC_1	36"	TRIPLE MANIFOLD TEE W/24" RISER, W/8" CLEANOUT				See Detail
2	3651AN	36"	SINGLE MANIFOLD TEE				See Detail
3	3658AN	36"	X 90 DEGREE MANIFOLD BEND				See Detail
4	3651AN	36"	PIPE STICK : SOIL TIGHT (FIELD CUT)				See Detail
5	3653ANC_1	36"	X 90 DEGREE MANIFOLD BEND W/24" RISER				See Detail
6	3651AN	36"	PIPE STICK : SOIL TIGHT (FIELD CUT)				See Detail
7	36580020IB	36"	PIPE STICK : SOIL TIGHT				See Detail
8	3651AN	36"	PIPE STICK : SOIL TIGHT (FIELD CUT)				See Detail
9	3653ANC_2	36"	X 90 DEGREE MANIFOLD BEND W/12" STUB				See Detail
10	3653ANC_3	36"	X 90 DEGREE MANIFOLD BEND W/12" STUB				See Detail
11	3653AN	36"	PIPE STICK : SOIL TIGHT				See Detail



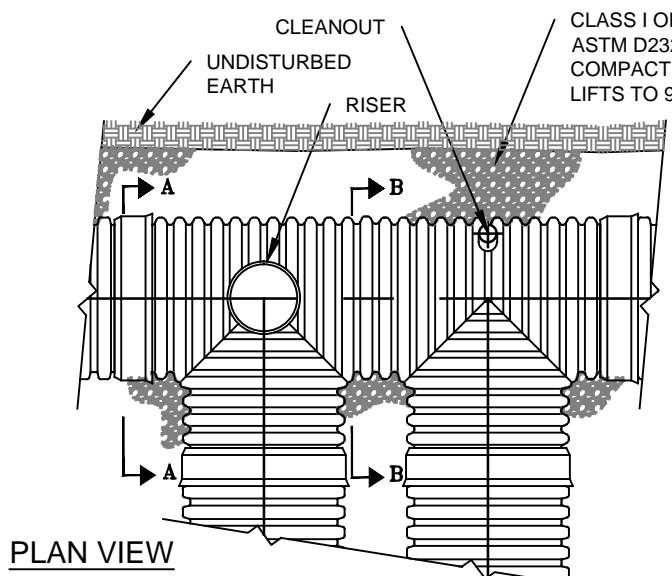
NOMINAL DIAMETER	NOMINAL O.D.	TYPICAL SPACING "C"	TYPICAL SIDE WALL "X"	MIN. H (NON-TRAFFIC)	MIN. H (TRAFFIC)	MAX. H*
36" (900 MM)	42" (1067 MM)	63" (1600 MM)	18" (457 MM)	12" (292 MM)	12" (292 MM)	8" (2.4 M)

* MAXIMUM FILL HEIGHTS OVER MANIFOLD FITTINGS. CONTACT MANUFACTURER'S REPRESENTATIVE FOR INSTALLATION CONSIDERATIONS WHEN COVER EXCEEDS 8-FT.
** 60" SYSTEMS REQUIRE CLASS I BACKFILL AROUND ALL FITTINGS.

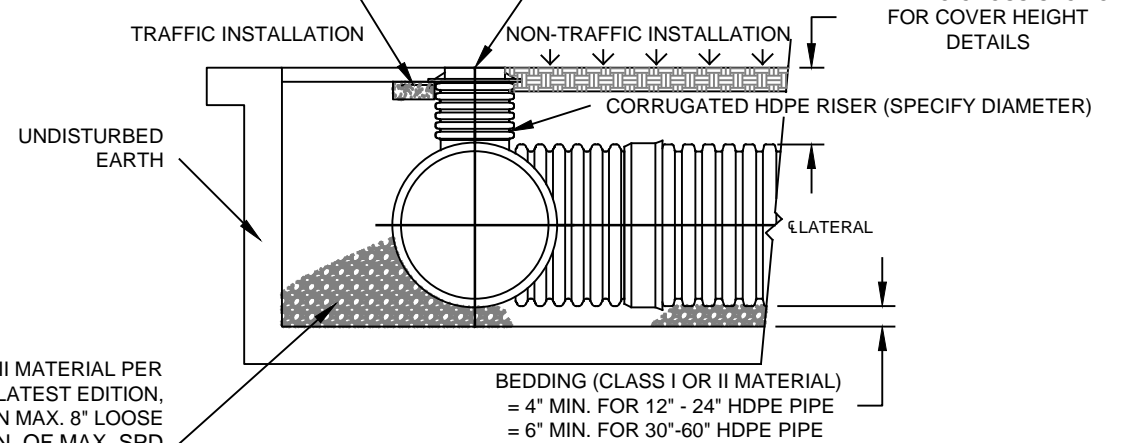
NOTES:

- 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.
- ALL RETENTION AND DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST EDITION AND THE MANUFACTURER'S PUBLISHED INSTALLATION GUIDELINES.
- MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO THE BACKFILL MATERIAL, WHEN REQUIRED. SEE ASTM D2321.
- 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.
- 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.
- 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), 6" (150mm) FOR 30"-60" (750mm-900mm).
- INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" 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.
- 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 FLOATATION. 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. MAXIMUM FILL HEIGHT LIMITED TO 8-FT OVER FITTINGS FOR STANDARD INSTALLATIONS. CONTACT A SALES REPRESENTATIVE WHEN MAXIMUM FILL HEIGHTS EXCEED 8-FT FOR INSTALLATION CONSIDERATIONS.

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* LOAD BEARING CONCRETE COLLAR AS SPECIFIED BY DESIGN ENGINEER (WHERE REQUIRED)



SECTION A-A

CLASS I OR II MATERIAL PER ASTM D2321, LATEST EDITION, COMPACTED IN MAX. 8" LOOSE LIFTS TO 95% MIN. OF MAX. SPD

THE UNDERSIGNED HERBY APPROVES THE ATTACHEMENTS.

CUSTOMER _____ DATE _____

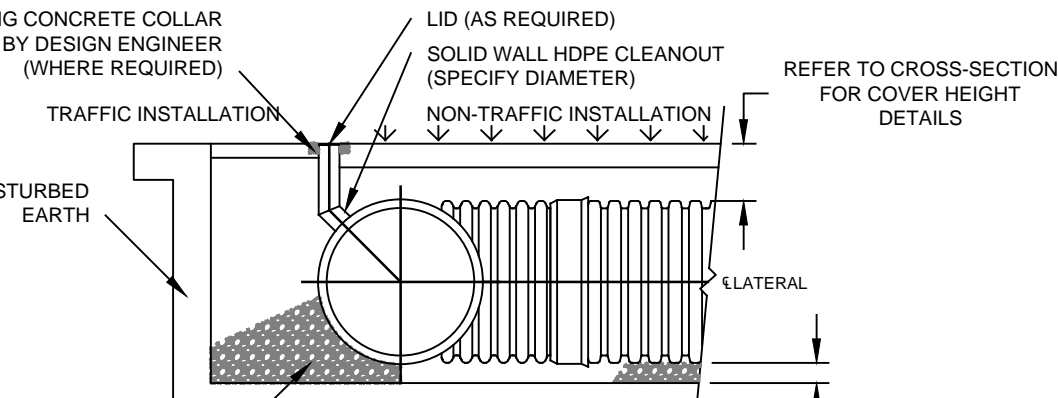
NOTES:

- ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF RISERS, INLETS AND OUTLETS, SHALL BE VERIFIED BY THE ENGINEER PRIOR TO RELEASING FOR FABRICATION.
- IN SITUATIONS WHERE A FINE-GRAINED BACKFILL MATERIAL IS USED ADJACENT TO THE PIPE SYSTEM, AND ESPECIALLY INVOLVED DRAINAGE AND WATER CONDITIONS, CONSIDERATION SHOULD BE GIVEN TO THE USE OF GASKETED PIPE JOINTS. AT THE VERY LEAST THE PIPE JOINTS SHOULD BE WRAPPED IN A SUITABLE, NON-WOVEN GEOTEXTILE FABRIC TO PREVENT INFILTRATION OF FINES INTO THE PIPE SYSTEM.
- CONSIDERATION FOR CONSTRUCTION EQUIPMENT LOADS MUST BE TAKEN INTO ACCOUNT.
- ALL PIPE DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES.
- ALL RISERS TO BE FIELD EXTENDED OR TRIMMED TO FINAL GRADE.

THE PROCEEDING DETAILS WERE GENERATED USING ADS DESIGN PRO®, A SOFTWARE PROGRAM DEVELOPED BY ADVANCED DRAINAGE SYSTEMS, INC. ("ADS"). THESE DRAWINGS ARE INTENDED TO DEPICT THE ADS COMPONENTS AS REQUESTED BY THE USER. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

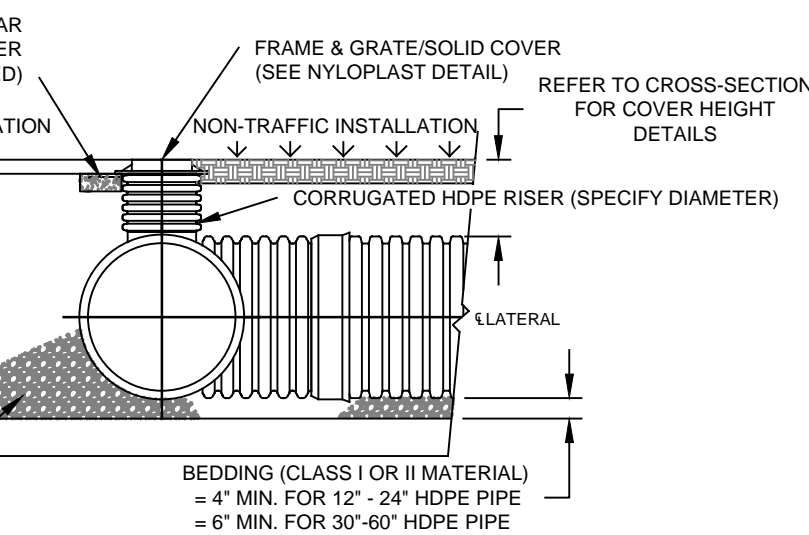
THE UNDERSIGNED HERBY APPROVES THE ATTACHEMENTS.

CUSTOMER _____ DATE _____



SECTION B-B

* LOAD BEARING CONCRETE COLLAR SHALL BE CONSTRUCTED IN TRAFFIC AREAS SUCH THAT THE LIVE LOAD IS TRANSMITTED TO THE SURROUNDING SOIL AND NOT DIRECTLY TO THE RISER.

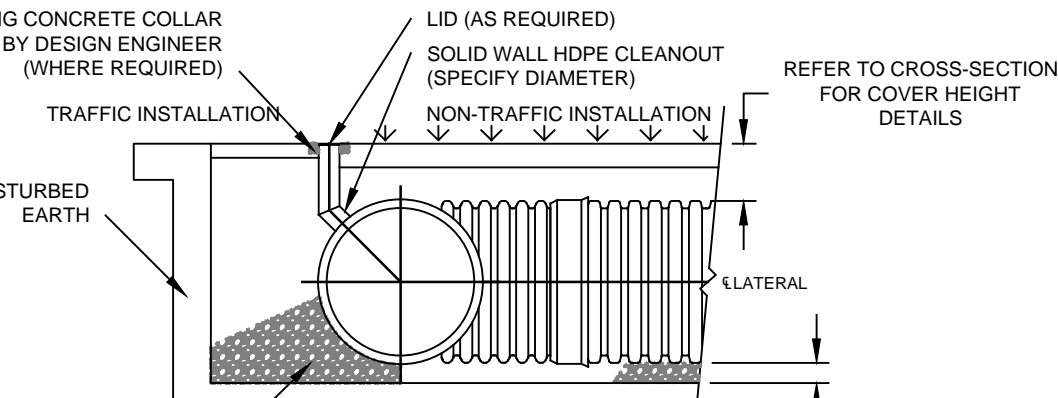


SECTION A-A

CLASS I OR II MATERIAL PER ASTM D2321, LATEST EDITION, COMPACTED IN MAX. 8" LOOSE LIFTS TO 95% MIN. OF MAX. SPD

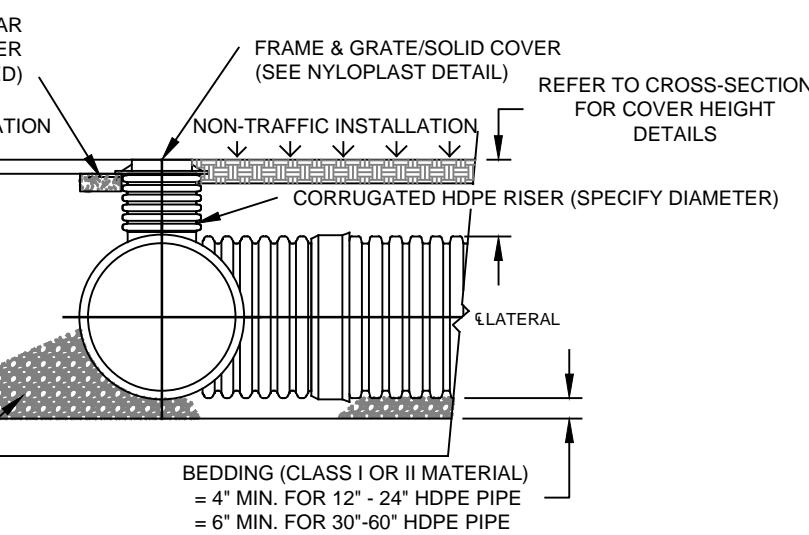
THE UNDERSIGNED HERBY APPROVES THE ATTACHEMENTS.

CUSTOMER _____ DATE _____



SECTION B-B

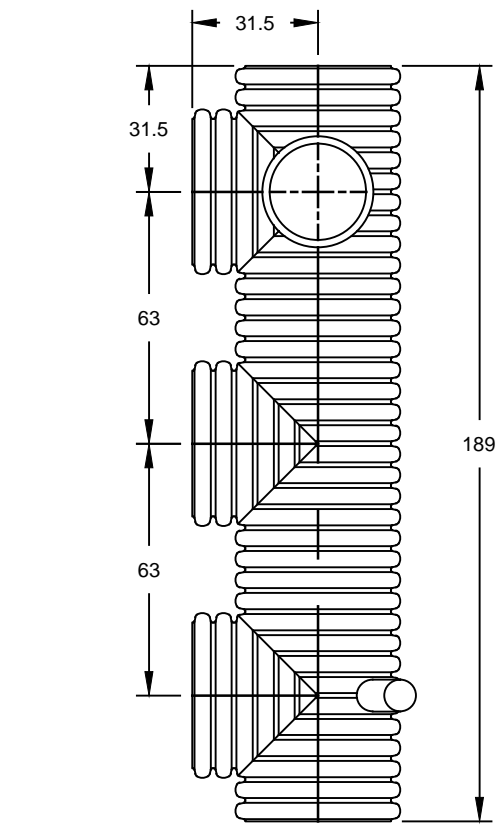
* LOAD BEARING CONCRETE COLLAR SHALL BE CONSTRUCTED IN TRAFFIC AREAS SUCH THAT THE LIVE LOAD IS TRANSMITTED TO THE SURROUNDING SOIL AND NOT DIRECTLY TO THE RISER.



SECTION A-A

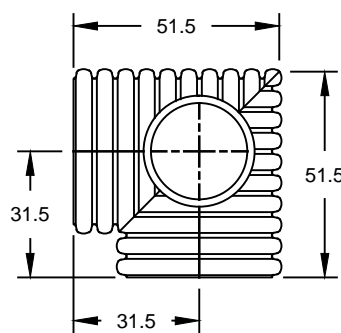
CLASS I OR II MATERIAL PER ASTM D2321, LATEST EDITION, COMPACTED IN MAX. 8" LOOSE LIFTS TO 95% MIN. OF MAX. SPD

36" TRIPLE MANIFOLD TEE W/24" RISER, W/8" CLEANOUT



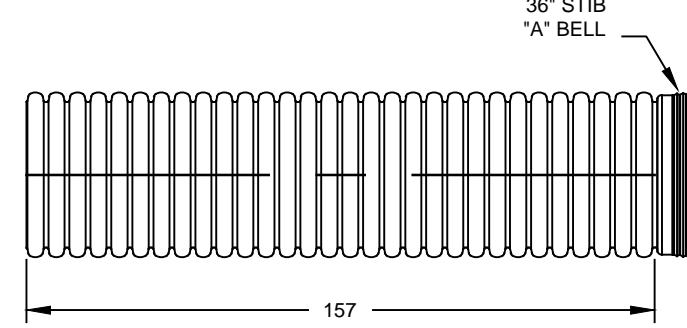
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3653ANC_1

36" X 90 DEGREE MANIFOLD BEND W/24" RISER



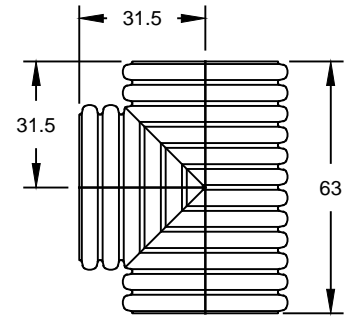
ITEM # 5
QTY : 1
3698ANC_1

36" PIPE STICK : SOIL TIGHT (FIELD CUT)



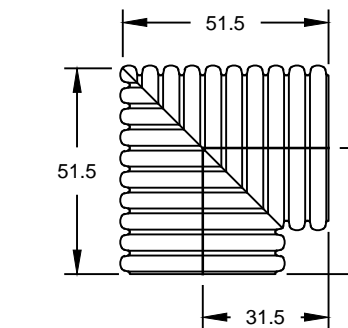
ITEM # 6
QTY : 6
Stick 1

36" SINGLE MANIFOLD TEE



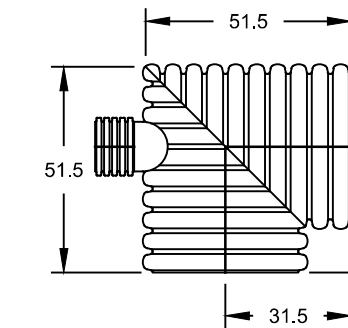
ITEM # 2
QTY : 2
3651AN

36" X 90 DEGREE MANIFOLD BEND



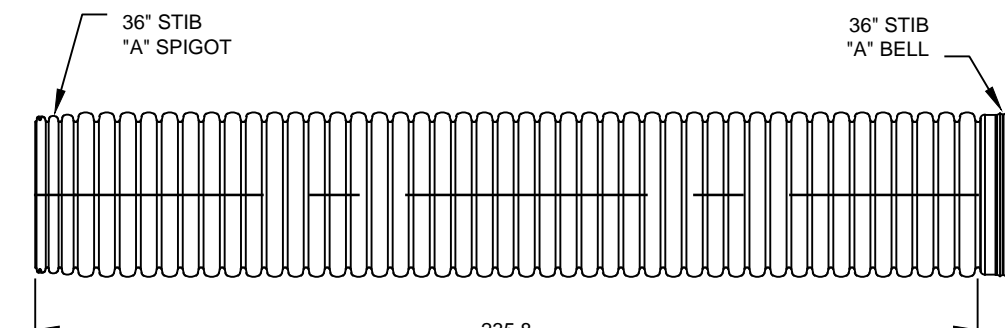
ITEM # 3
QTY : 1
3698AN

36" X 90 DEGREE MANIFOLD BEND W/12" STUB



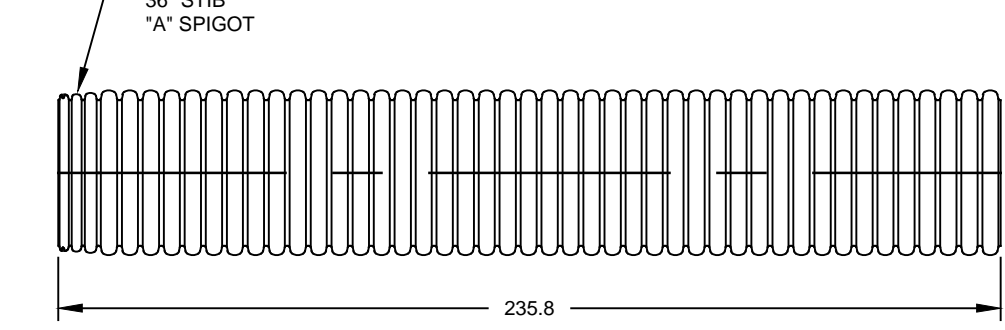
ITEM # 9
QTY : 1
3698ANC_2

36" PIPE STICK : SOIL TIGHT



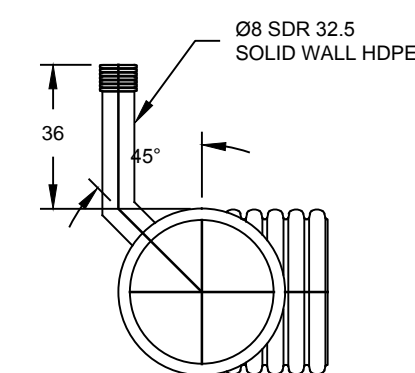
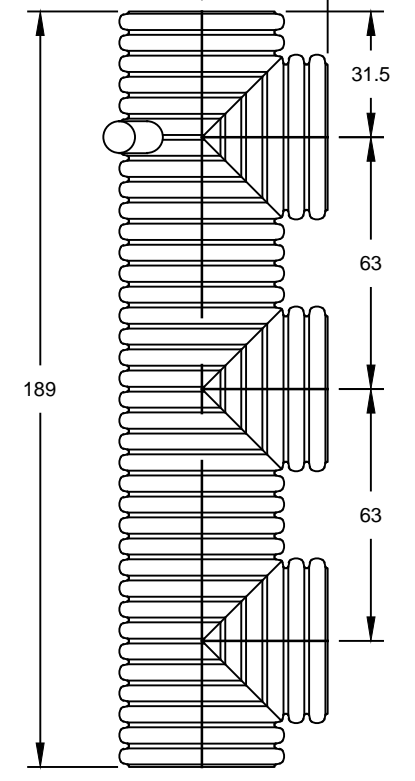
ITEM # 7
QTY : 6
36850020IB

36" PIPE STICK : SOIL TIGHT (FIELD CUT)



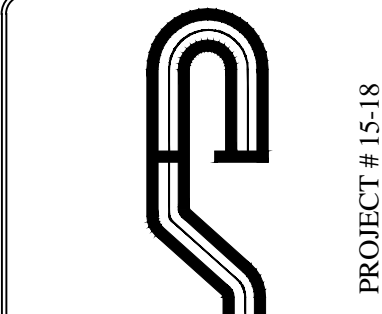
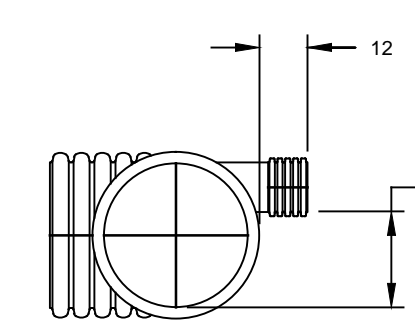
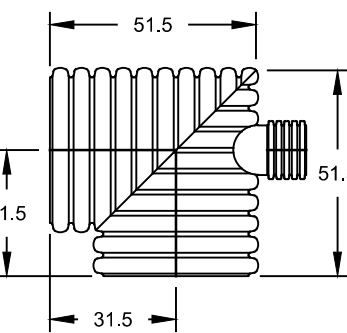
ITEM # 8
QTY : 6
Stick 2

36" TRIPLE MANIFOLD TEE W/8" CLEANOUT



ITEM # 4
QTY : 1
3653ANC_2

36" X 90 DEGREE MANIFOLD BEND W/12" STUB



PROJECT # 15-18

Site Design Consultants

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www.sitedesignconsultants.com

Engineer:

Joseph C. Ritina, P.E.
NYS Lic. No. 64431

No.	Date	Comments
1	11/9/15	Town Comments
2	12/7/15	Town Comments
3	3/7/16	Town Comments
4		Town Comments

SCALE: NTS

DRAWN BY: TK

DATE: 9/25/15

CISTERN DETAILS

SITE PLAN
PREPARED FOR

PARTH KNOLLS LLC.

87 HAWKES AVENUE

Westchester County, NY

Sheet

C-508