

NOT TO SCALE

SITE DATA: CONTRACT VENDEE DEVELOPER:

**PROJECT LOCATION:** 

**EXISTING TOWN ZONING:** PROPOSED USE: TOWN TAX MAP DATA: SITE AREA : SEWAGE FACILITIES: WATER FACILITIES:

# DRAWING INDEX:

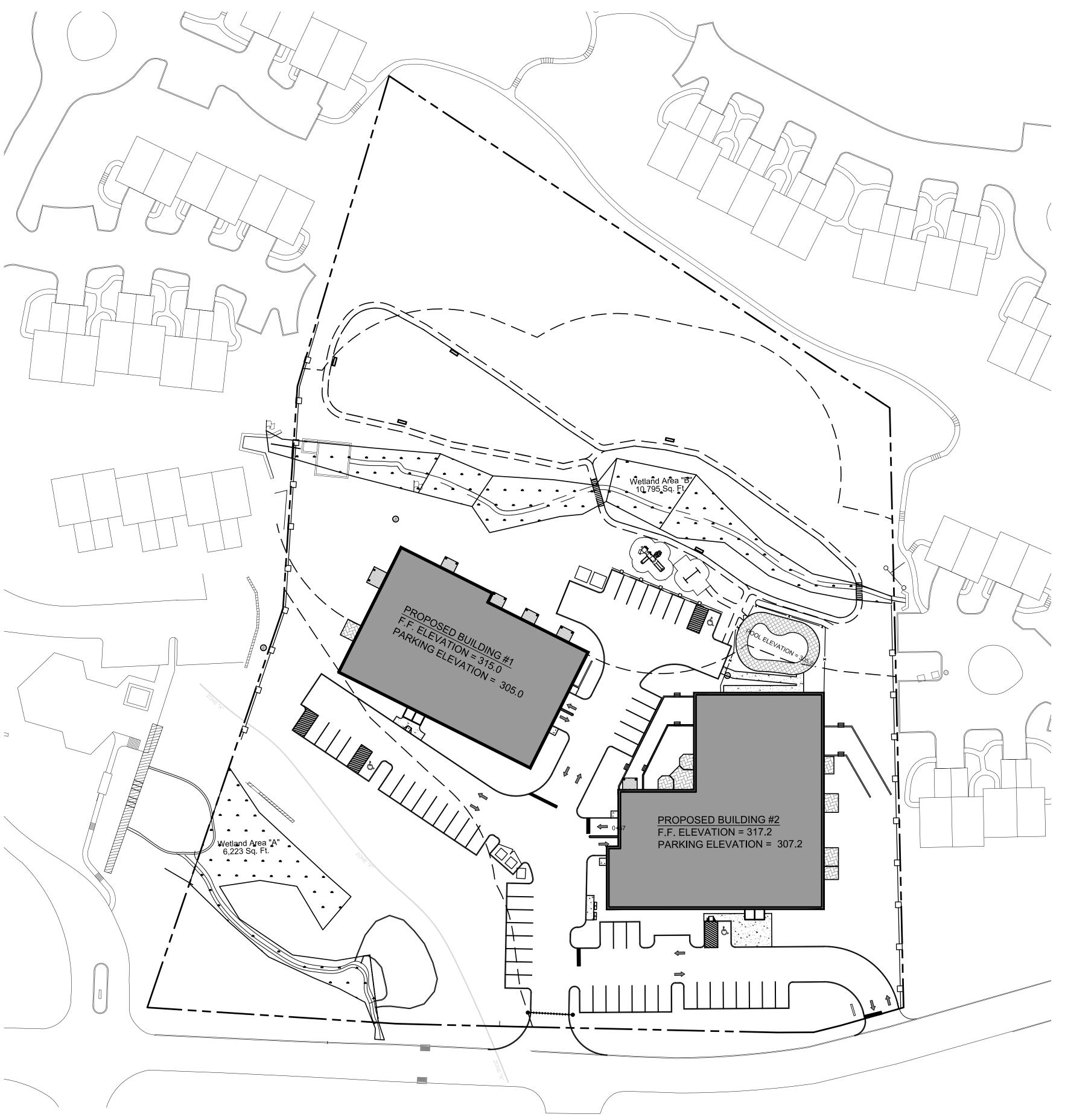
SHEET NUMBER T-1 T-2 C-101 C-102 C-103 C-104 C-105 C-106 C-107 C-108 C-109 C-110 C-111 C-301 G-1 G-2 C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 M-101 M-102 L-101 A-100 A-100A A-101 A-102 A-103 A-104 A-105 A-106 A-107 A-201 A-202 A-203 A-204 A-205 A-206 A-207

AUDUBON MANOR LLC. PARTH KNOLLS LLC. 500 EXECUTIVE BLVD. #203 OSSINING, NY, 10562 87 HAWKES AVE. OSSINING, NY, 10562 MF-I, MULTIFAMILY-INN MF-I, MULTIFAMILY-INN SECTION 80.20, BLOCK 1, LOT 15 5.53 ACRES (240,751 SF) PUBLIC SEWERS PUBLIC WATER FACILITIES

DRAWING TITLE TITLE SHEET TITLE SHEET 2 SITE PLAN EXISTING CONDITIONS PLAN EROSION AND SEDIMENT CONTROL PLAN UTILITY PLAN GRADING PLAN SIGHT DISTANCE PLAN TREE PLAN FIRE ACCESS PLAN ENVIRONMENTAL CONSTRAINTS MAP OPEN SPACE AND RECREATION PLAN LIGHTING PLAN PROFILES NOTES E&SC NOTES E&SC DETAILS SITE DETAILS WATERMAIN DETAILS SANITARY SEWER DETAILS DRAINAGE DETAILS STORMWATER MANAGEMENT DETAILS CRYSTAL STREAM DETAILS CISTERN DETAILS WETLAND BUFFER MITIGATION PLAN BUFFER MITIGATION NOTES LANDSCAPE PLAN ZONING & CODE ANALYSIS SCHEMATIC BUILDING LAYOUT AND TABULATIONS PROPOSED BUILDING #1 - BASEMENT FLOOR PLAN PROPOSED BUILDING #1 - FIRST FLOOR PLAN PROPOSED BUILDING #1 - SECOND FLOOR PLAN PROPOSED BUILDING #1 - UPPER LEVEL FLOOR PLAN PROPOSED BUILDING #1 - ROOF PLAN PROPOSED BUILDING #1 - FRONT AND REAR ELEVATIONS PROPOSED BUILDING #1 - LEFT AND RIGHT SIDE ELEVATIONS PROPOSED BUILDING #2 - BASEMENT FLOOR PLAN PROPOSED BUILDING #2 - FIRST FLOOR PLAN PROPOSED BUILDING #2 - SECOND FLOOR PLAN PROPOSED BUILDING #2 - UPPER LEVEL FLOOR PLAN PROPOSED BUILDING #2 - ROOF PLAN PROPOSED BUILDING #2 - FRONT AND REAR ELEVATIONS

PROPOSED BUILDING #2 - LEFT AND RIGHT SIDE ELEVATIONS





# PARTH KNOLLS LLC.

**CONTRACT VENDEE:** AUDUBON MANOR, CO., LLC. 500 EXECUTIVE BLVD #203 OSSINING, NY 10562 **CIVIL ENGINEER:** SITE DESIGN CONSULTANTS

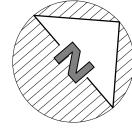
251-F UNDERHILL AVENUE YORKTOWN HEIGHTS, NY 10598 P: 914 962 4488 F: 914 962 7386 jriina@sitedesignconsultants.com

**SURVEYOR:** LINK LAND SURVEYORS 21 CLARK PLACE, SUITE 1B MAHOPAC, NY 10541 P: 845-628-5857 F: 845-621-0013 www.linklandsurveyors.com

**ENVIRONMENTAL CONSULTANT:** TIM MILLER ASSOCIATES INC. **10 NORTH STREET** COLD SPRING, NY 10516 P: 845-265-4400

**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



SCALE: 1"=40'-0"

# ZONING SCHEDULE:

ZONING DISTRICT:	MF-I, I	MULTI FAMILY RESI	DENTIAL
DIMENSIONAL REGULATIONS:	<u>REQUIRED</u>	PROVIDED	VARIANCE REQUIRED
MINIMUM SIZE OF LOT:			
MINIMUM LOT AREA: MINIMUM LOT WIDTH:	40,000 SF. 150 FT.	240,751 SF. 522 FT.	NONE NONE
MINIMUM LOT DEPTH: MINIMUM YARD DIMENSIONS:	150 FT.	414 FT.	NONE
PRINCIPAL BUILDING: FRONT YARD SETBACK: REAR YARD SETBACK: ONE SIDE YARD SETBACK: COMBINED SIDE YARD SETBACK:	50 FT. 40 FT. 50 FT. 100 FT.	82 FT. 257 FT. 50 FT. 100 FT.	NONE NONE NONE NONE
MAXIMUM % OF LOT TO BE OCCUPIED: LOT COVERAGE:	66% x 240,751 SF = 158,895 SF	71,456 SF	NONE
BUILDING COVERAGE:	20% x 240,751 SF = 48,151 SF	32,001 SF	NONE
MAXIMUM HEIGHT:			
PRINCIPAL BUILDING - FEET: PRINCIPAL BUILDING - STORIES:	35 FEET 2 1/2	30 FEET 2 1/2	NONE NONE

<u>ZONING REGULATION NOTES:</u> 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 apartm	ents time (2) equals	<u>106 spaces</u>
Indoor Parking	Breakdown	<b>Total Parking</b>
Building No. 1	Standard 25 Handicap 1 Total <u>26</u>	26
Building No. 2	Standard 30 Handicap 1 Total <u>31</u>	31
<b>Outdoor Parking</b>	Breakdown	
	Standard 48 Handicap 3	
	Total <u>51</u>	51
Total Parking Provided	1	51 <u>108</u>
<b>Total Parking Provided</b> Bank Parking for future use, if required [spaces #59,60,61 & 62]	1	

Article VI.
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Section 200.33	Affordable Housing	BMR}			
Section 200.34	Required	10% of the numb	er of D	welling un	its
	More than 5, but fe	wer than 10 acres	3		30%
	Maximum permitte	d Density Bonus			
	Calculation	Dwelling	41 A	\partm	41
	1/2 of the units rece	eived must be BN	IR		
	Density Bonus		(X)	30%	
Density Bonus	Number of Dwelling	g units		12.3	
-	Rounded Number	of Dwelling units		12	12
	Total number of un	its with density Bo	onus		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

			<b>1</b> 50	In	
Туре	NON-BINK	BMR Units	Total Units	Bearooms	Unit Ratio
One (1) B/R	31	10	41	41	77%
Two (2) B/R	10	3	13	26	25%
Total Dwelling Units	41	12	53	66	100%
Section 200.29 Parking & loading		9	40	40	75%
2 for each dwelling more than 2 bedroo		5 for each bec Regular Apts		Total Parking	
Dwelling Units		41	12	<u> </u>	
Parking per Dwelling	g Unit	(x) 2	(x) 2		
Total Parking space	s required	82	24	106	
Building Height Max	ĸ	·			

Stories 2 1/2 Feet 35' Colonial Design

DISTANCE BETWEEN BLDGS. (#200-16C(1) (B)) BUILDING HEIGHT X 2 = 30 X2= 60" PROVIDED 60'

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

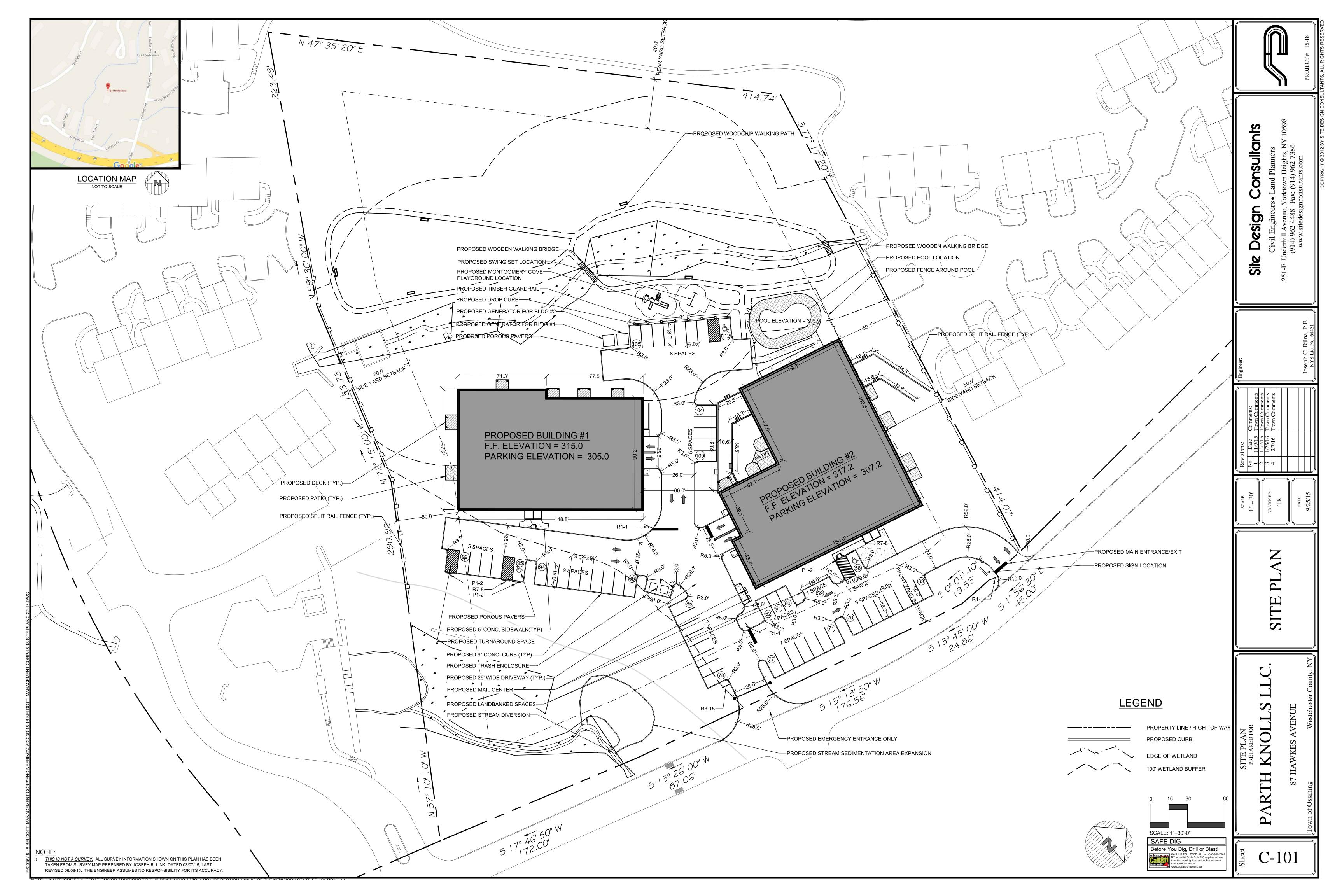
 PER BEDROOM.

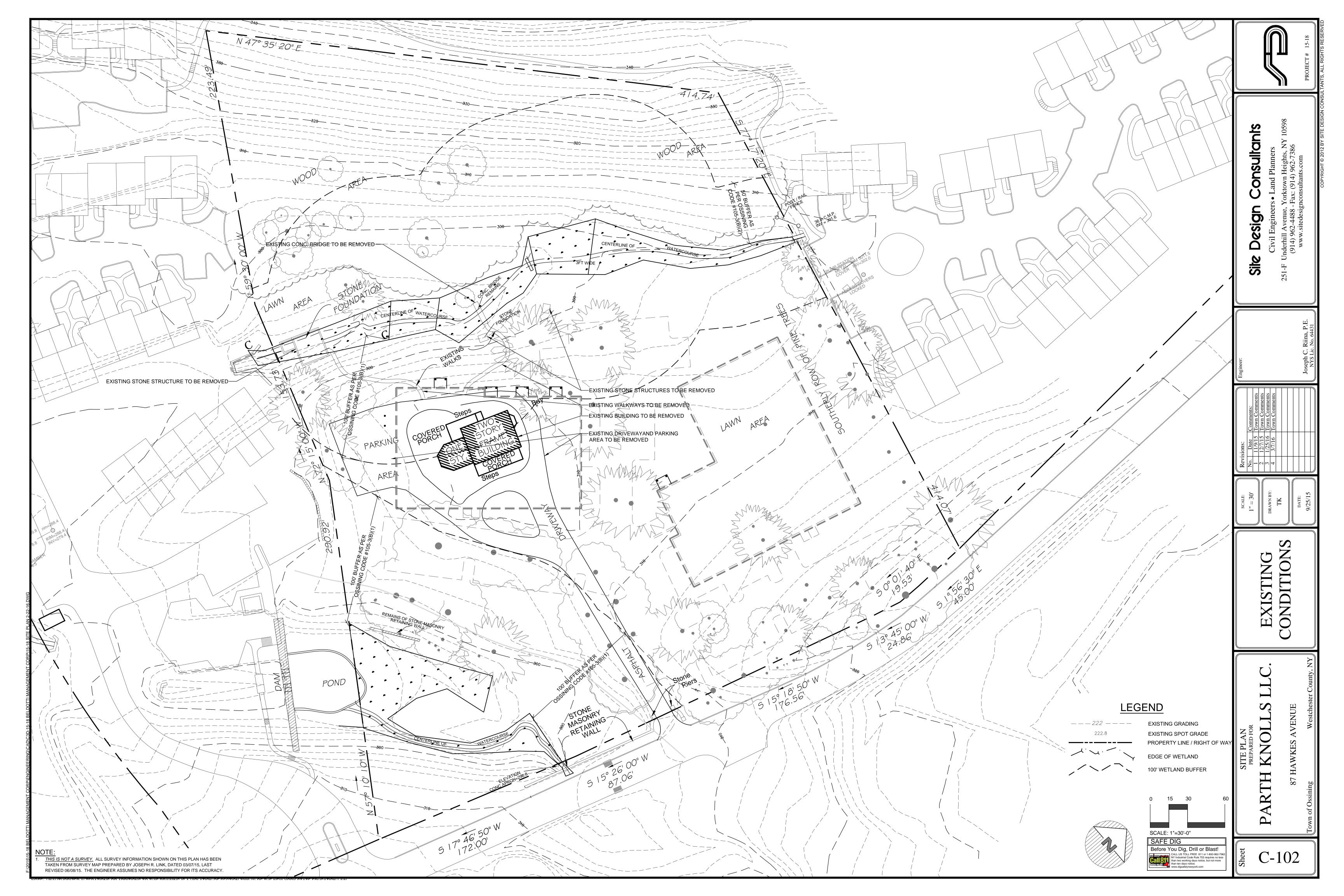
ONE (1) BEDROOM APARTMENTS 5,500 TWO (2) BEDROOM APARTMENTS 7,000 CALCULATION: ONE (1) BEDROOM APARTMENTS 5,500SF X <u>31</u> = 170,500 SF 31 TWO (2) BEDROOM APARTMENTS 7,000 SF X 10= <u>70,000</u> SF 10 TOTAL APARTMENTS 41

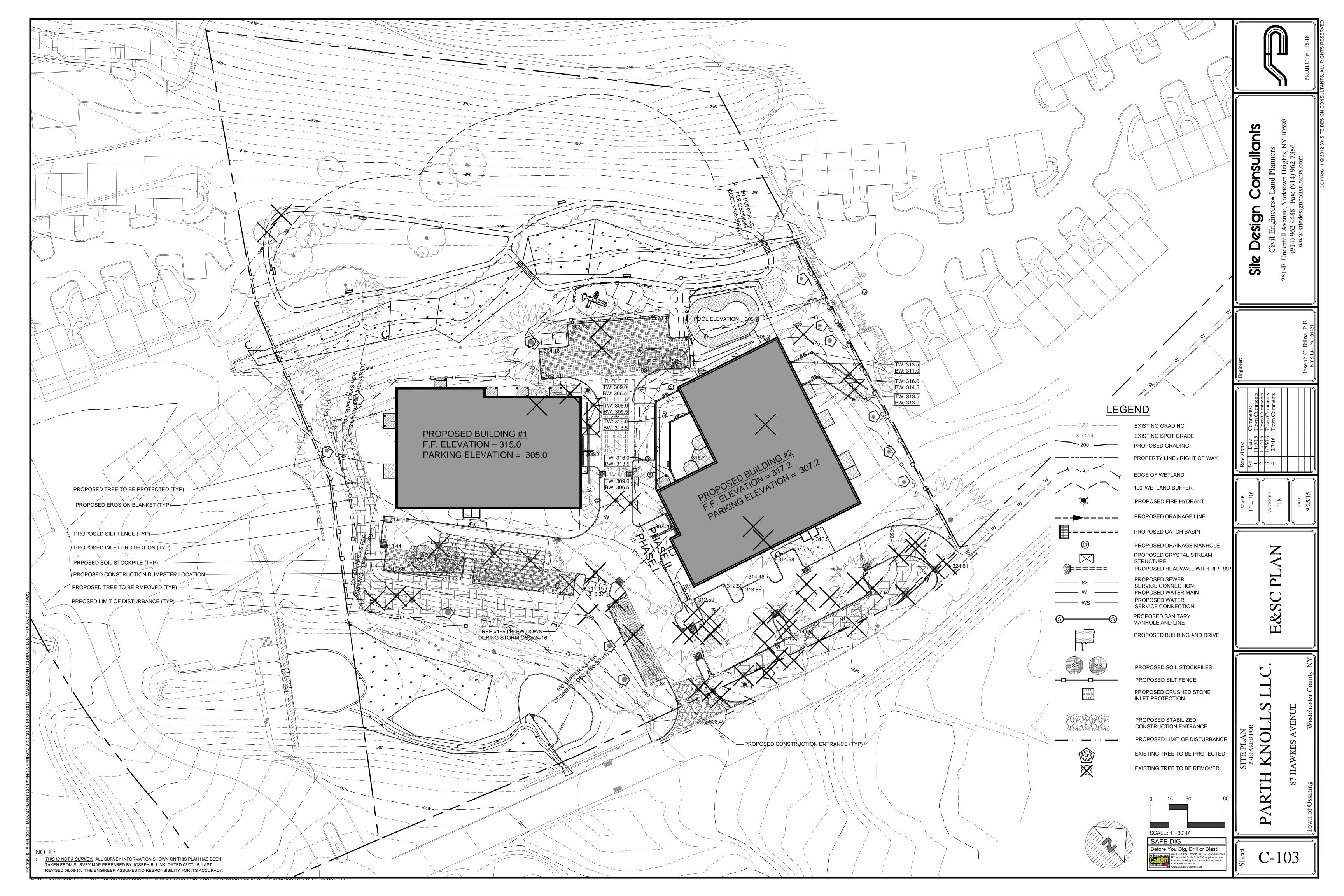
TOTAL SF AREA REQUIRED240,000 SFTOTAL PROVIDED-SITE SF AREA:240,751 SF

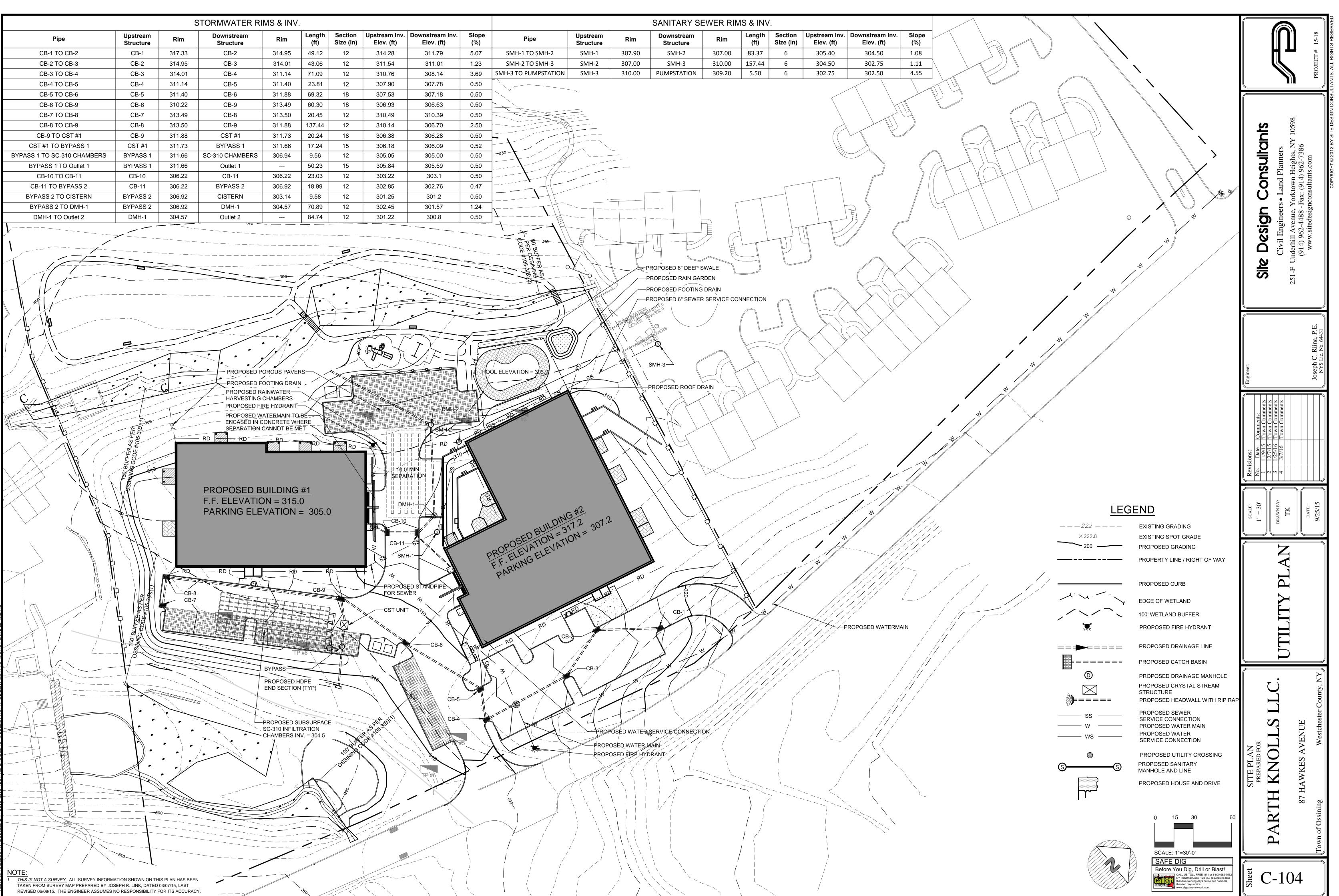
Article VI.	Afforda	ble
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<u>Section</u>	<u>200-33</u>	Re No
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Section	<u>200-34</u>	Re Mo
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Section BMR Units	200.35./ s must be	
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Minimum	requirem	⊥ ent
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Bldg. #2		
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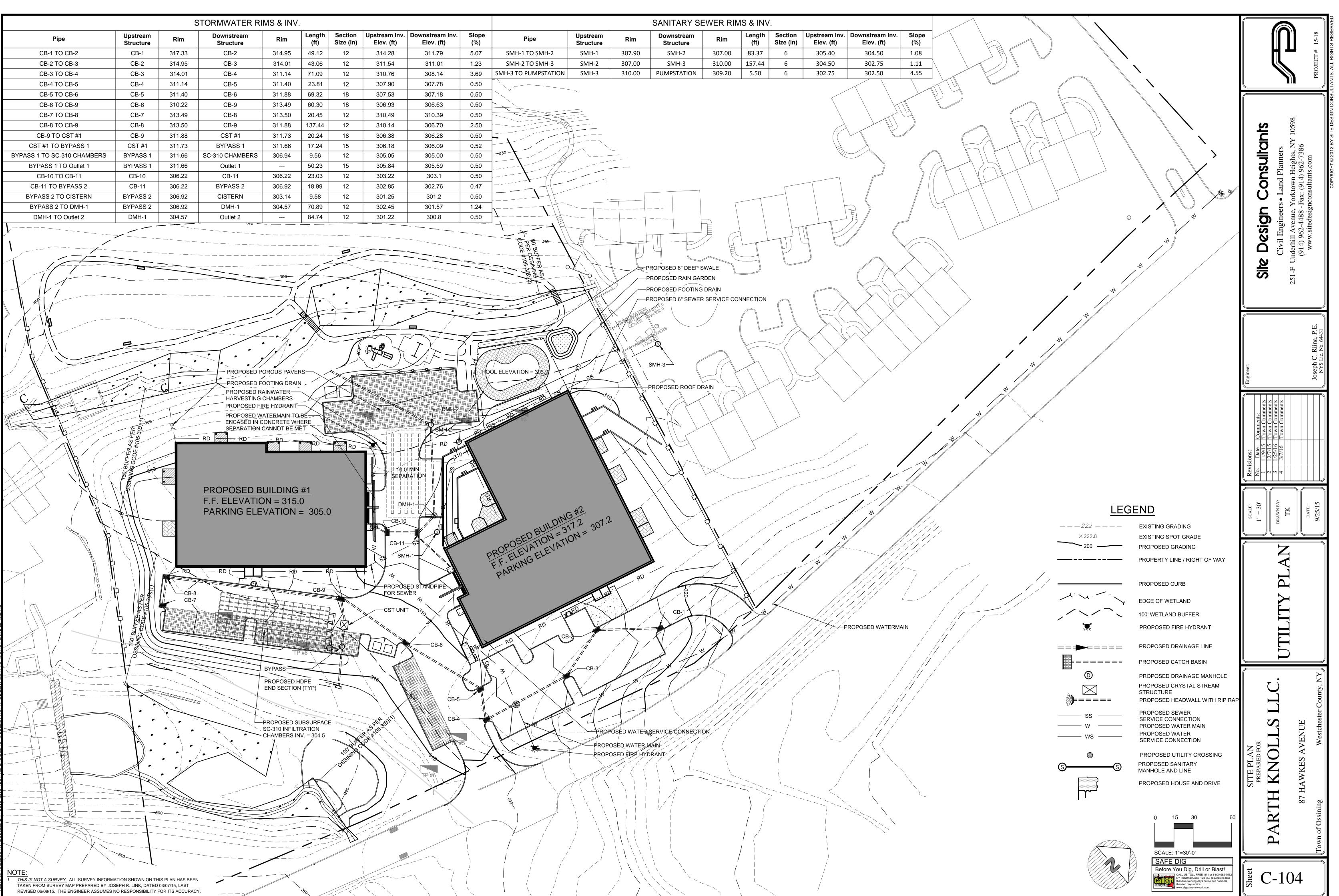
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nent Tabul	ation	<u> </u>		·····	L			
Apartment	Livable	One B/R	One B/R	Two B/R	BMR	Simp		Simp
No.	Sq Ft Area	Simplex	Duplex	Simplex	Unit	1 B/R		2 B/R
101	1,013					1		
102 103	1,032	·				1		
103	1,095 1,095					1		
104	1,095	,				1		
106	1,375			1,375		· ·	<b> </b>	1
107	1,081	1,081				1		
108	1,007	11111111111111111111111111111111111111	And Andrewski An		BMR	Í.		
109	1,054					1		
110	1,218	1		1,218				1
111	1,263			1,263		8		2
112	933	933		1,203		1		1
113	1,015	1,015		<u> </u>		1		
114	1,053			1,053	BMR			
115	1,459			1,459				1
116	1,015	1,015				1		
117 118	1,034 1,216	1,034		1 0 4 0		1		
118	1,216			1,216 1,200				1
120	927	927	<u> </u>	.,200	L	1		1
121	1,121	1,121				1		
122	941	941	Status Trace I Alway In 17	155 Multiples		<b>1</b>	15-11/14/14	Constant and the second se
123	846	846			BMR			
201	1 1 1 0		1 110			16	0	7
201	1,119 1 119		1,119 1,119		BMR			
203	1,145		and Childhin Ruy R.	1,145			unanaa ah si	norstetet <b>1</b>
page 2	28,475	16,308	2,238	9,929		16		8
Apartment	Livable	One B/R	One B/R	Two B/R	BMR	Simp		Simp
No.	Sq Ft Area	Simplex	Duplex	Simplex	Unit	1 B/R		2 B/R
m page 1	28,475		2,238	9,929		16	2	8
204 205	1,087 1,276	1,087	1,276			1	1	
205	1,276		1,276				1	
207	1,087	1,087	.,			1		
208	849	849			BMR	1		
209	1,109		1,109				1	
	1 001	1,081				1		
210	1,081	.,				1	1	1
211	1,109		1,109					,
211 212	1,109 1,193	1,193				1		
211	1,109		1,109			1	1	
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211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 reas ment Type y Apartment no less than ate units	1,109 1,193 1,043 1,110 1,264 1,204 1,209 950 1,255 1,038 1,202 1,184 1,038 1,185 1,102 1,375 1,250 1,250 1,250 1,250 1,250 1,250 1,196 1,138 <b>59,523</b>	1,193 1,110 950 1038 1,038 1,038 26,991 26,991 26 Apts 1,038 sf	1,043 1,204 1,209 1,209 1,209 1,184 1,185 1,185 1,185 1,196 16,469 14 Apts 1,176 sf	1,255 1,255 1,102 1,375 1,375 1,138 16,063 13 Apts 1,236 sf		1 22 1 1 1 1		1 1 1 1 1 1
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211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 reas ment Type y Apartment ate units	1,109 1,193 1,043 1,110 1,264 1,204 1,209 950 1,255 1,038 1,202 1,184 1,038 1,185 1,102 1,375 1,250 1,250 1,250 1,250 1,250 1,250 1,196 1,138 <b>59,523</b>	1,193 1,110 950 1038 1,038 1,038 1250 26,991 26 Apts 1,038 sf 830 sf 675 sf	1,043 1,204 1,209 1,209 1,202 1,184 1,185 1,185 1,176 16,469 14 Apts 1,176 sf 941 sf 675 sf	1,255 1,255 1,102 1,375 1,575		1 22 1 1 1 1		1 1 1 1 1 1
211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 reas ment Type y Apartment no less than ate units r Area	1,109 1,193 1,043 1,110 1,264 1,204 1,209 950 1,255 1,038 1,202 1,184 1,038 1,102 1,375 1,250 1,250 1,250 1,250 1,250 1,250 1,196 1,138 <b>59,523</b> t Type	1,193 1,110 950 1038 1,038 1,038 1250 26,991 26 Apts 1,038 sf 830 sf	1,043 1,204 1,209 1,209 1,209 1,184 1,185 1,185 1,185 1,196 16,469 14 Apts 1,176 sf 941 sf	1,255 1,255 1,102 1,102 1,375				1 1 1 1 1 1 3
211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 reas ment Type y Apartment no less thar ate units r Area	1,109 1,193 1,043 1,110 1,264 1,204 1,209 950 1,255 1,038 1,202 1,184 1,038 1,102 1,375 1,250 1,250 1,250 1,250 1,250 1,250 1,196 1,138 <b>59,523</b> t Type	1,193 1,110 950 1038 1,038 1,038 1,038 26,991 26,991 26 Apts 1,038 sf 675 sf 675 sf 700 sf	1,043 1,204 1,209 1,209 1,202 1,184 1,185 1,185 1,176 16,469 14 Apts 1,176 sf 941 sf 675 sf	1,255 1,255 1,102 1,375 1,575	Break-dc	1 22 1 1 1 1 1 26		1 1 1 1 1 1 3
211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 reas ment Type y Apartment no less thar ate units r Area	1,109 1,193 1,043 1,110 1,264 1,204 1,209 950 1,255 1,038 1,202 1,184 1,038 1,102 1,375 1,250 1,250 1,250 1,250 1,250 1,250 1,196 1,138 <b>59,523</b> t Type	1,193 1,110 950 1038 1,038 1,038 1250 26,991 26 Apts 1,038 sf 830 sf 675 sf	1,043 1,204 1,209 1,209 1,202 1,184 1,185 1,185 1,176 16,469 14 Apts 1,176 sf 941 sf 675 sf	1,255 1,255 1,102 1,375 1,575		1 22 1 1 1 1 1 26 26 26 26 26 26 26 26 26 26 26 26 26		1 1 1 1 1 1 3
211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 reas ment Type y Apartment no less thar ate units r Area	1,109 1,193 1,043 1,110 1,264 1,204 1,209 950 1,255 1,038 1,202 1,184 1,038 1,102 1,375 1,250 1,250 1,250 1,250 1,250 1,196 1,138 <b>59,523</b> t Type	1,193 1,110 950 1038 1,038 1,038 1,038 26,991 26,991 26 Apts 1,038 sf 675 sf 675 sf 700 sf	1,043 1,204 1,209 1,209 1,209 1,184 1,185 1,185 1,185 1,176 16,469 14 Apts 1,176 sf 941 sf 675 sf 700 sf	1,255 1,255 1,102 1,375 1,575	Break-dc 1 B/R Sin	1 22 1 1 1 1 1 26 26 26 20 20 20 20 20 20 20 20 20 20 20 20 20		1 1 1 1 1 1 3
211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 reas ment Type y Apartmen no less thar ate units r Area nts. 700 sf <u>s</u> Apt No.202 Apt No.208 Apt No.203	1,109 1,193 1,043 1,110 1,264 1,204 1,209 950 1,255 1,038 1,202 1,184 1,038 1,102 1,375 1,250 1,250 1,250 1,250 1,250 1,196 1,138 <b>59,523</b> t Type	1,193 1,110 950 1038 1,038 1,038 26,991 26 Apts 1,038 sf 675 sf 675 sf 700 sf 1,007 sf	1,043 1,204 1,209 1,209 1,209 1,184 1,185 1,185 1,185 1,176 16,469 14 Apts 1,176 sf 941 sf 675 sf 700 sf	1,255 1,255 1,102 1,375 1,236 sf 1,750 sf 1,750 sf	Break-dc 1 B/R Sin 1 B/R Sin 1 B/R Sin 1 B/R Sin	1 22 1 1 1 1 1 26 26 26 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20		1 1 1 1 1 1 3
211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 reas ment Type y Apartment no less thar ate units r Area nts. 700 sf <u>s</u> Apt No.108 Apt No.202 Apt No.123 Apt No.114	1,109 1,193 1,043 1,110 1,264 1,204 1,209 950 1,255 1,038 1,202 1,184 1,038 1,102 1,375 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,196 1,138 <b>59,523</b> t Type	1,193 1,110 950 1038 1,038 1,038 1,038 1,038 5 26,991 26 Apts 1,038 sf 675 sf 675 sf 700 sf 1,007 sf 849 sf	1,043 1,204 1,209 1,209 1,209 1,184 1,185 1,185 1,185 1,196 16,469 14 Apts 1,196 16,469 14 Apts 1,176 sf 941 sf 675 sf 700 sf 1,119 sf	1,255 1,255 1,102 1,375 1,575	Break-do 1 B/R Sin 1 B/R Sin 1 B/R Sin 1 B/R Sin 2 B/R Sin	1 22 1 1 1 1 1 1 26 26 20 1 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20		1 1 1 1 1 1 3
211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 reas ment Type y Apartment ate units r Area nts. 700 sf s Apt No.108 Apt No.202 Apt No.214 Apt No.123 Apt No.123 Apt No.124 Apt No.124 Apt No.227	1,109 1,193 1,043 1,110 1,264 1,204 1,209 950 1,255 1,038 1,202 1,184 1,038 1,185 1,102 1,375 1,250 1,250 1,250 1,250 1,250 1,255 1,250 1,250 1,255 1,250 1,250 1,255 1,250 1,250 1,255 1,250 1,102 1,10	1,193 1,110 950 1038 1,038 1,038 26,991 26,991 26 Apts 1,038 sf 675 sf 675 sf 700 sf 1,007 sf 849 sf 849 sf 846 sf	1,043 1,204 1,209 1,209 1,209 1,184 1,185 1,185 1,185 1,176 16,469 14 Apts 1,176 sf 941 sf 675 sf 700 sf	1,255 1,255 1,102 1,375 1,575	Break-dc 1 B/R Sin 1 B/R Sin 1 B/R Sin 1 B/R Sin	1 22 1 1 1 1 1 1 26 26 20 1 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20		
211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 reas ment Type y Apartment no less thar ate units r Area nts. 700 sf <u>s</u> Apt No.108 Apt No.208 Apt No.123 Apt No.114	1,109 1,193 1,043 1,110 1,264 1,204 1,209 950 1,255 1,038 1,202 1,184 1,038 1,185 1,102 1,375 1,250 1,250 1,250 1,250 1,250 1,255 1,250 1,250 1,255 1,250 1,250 1,255 1,250 1,250 1,255 1,250 1,102 1,10	1,193 1,110 950 1038 1,038 1,038 1,038 1,038 5 26,991 26 Apts 1,038 sf 675 sf 675 sf 700 sf 1,007 sf 849 sf	1,043 1,204 1,209 1,209 1,209 1,184 1,185 1,185 1,185 1,196 16,469 14 Apts 1,196 16,469 14 Apts 1,176 sf 941 sf 675 sf 700 sf 1,119 sf	1,255 1,255 1,102 1,375 1,575	Break-do 1 B/R Sin 1 B/R Sin 1 B/R Sin 1 B/R Sin 2 B/R Sin	1 22 1 1 1 1 1 1 26 26 20 1 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20		

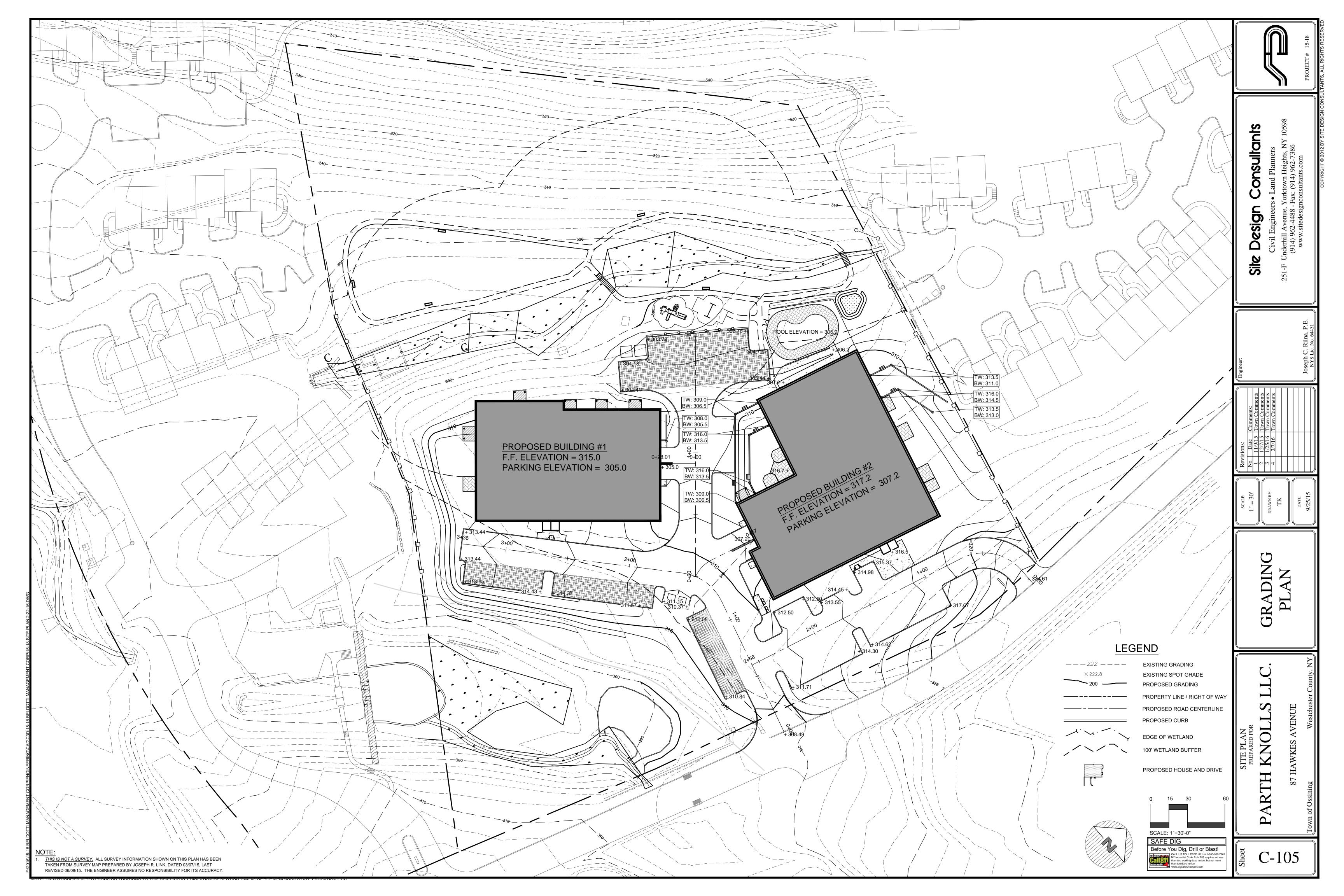


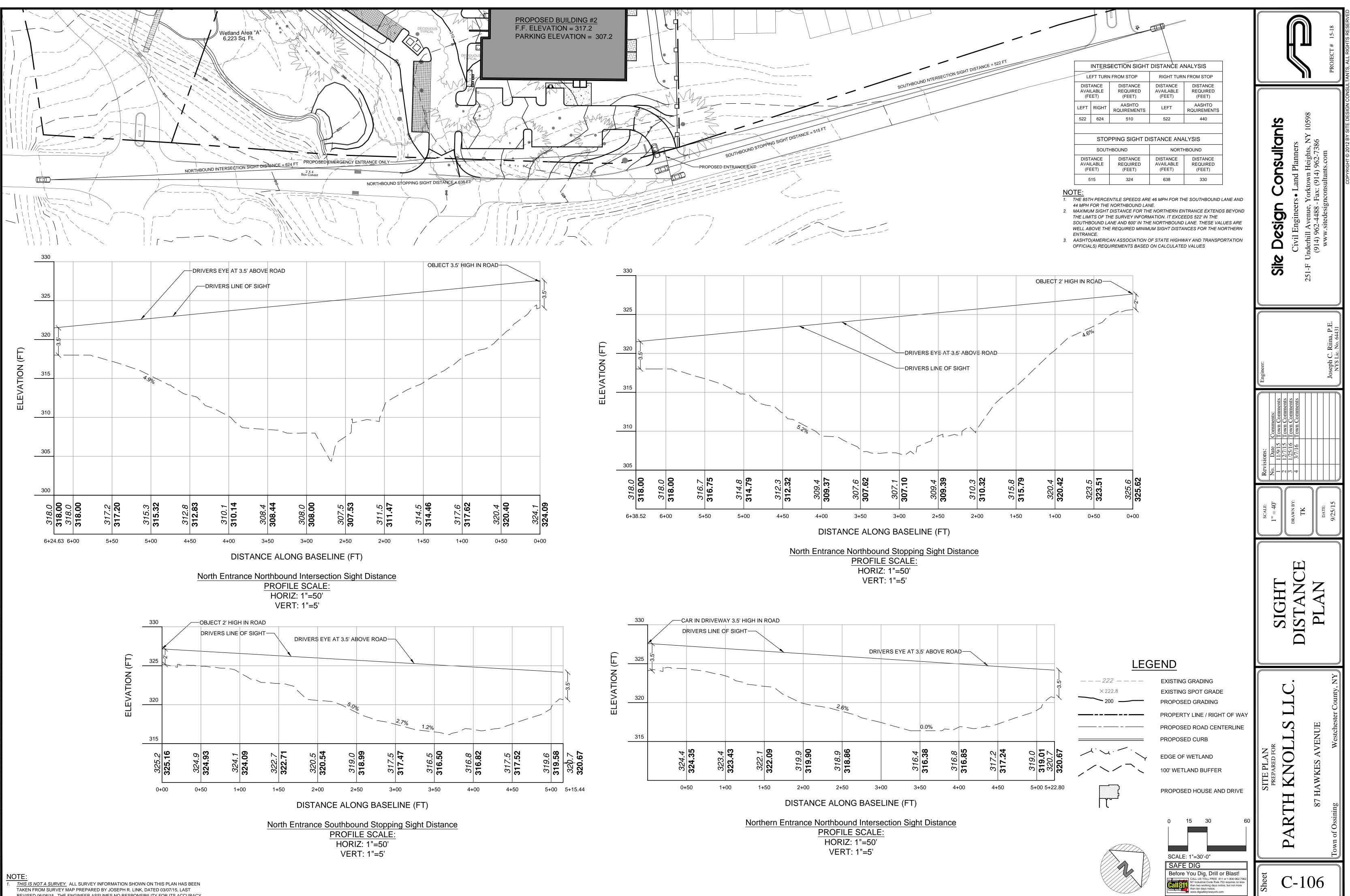






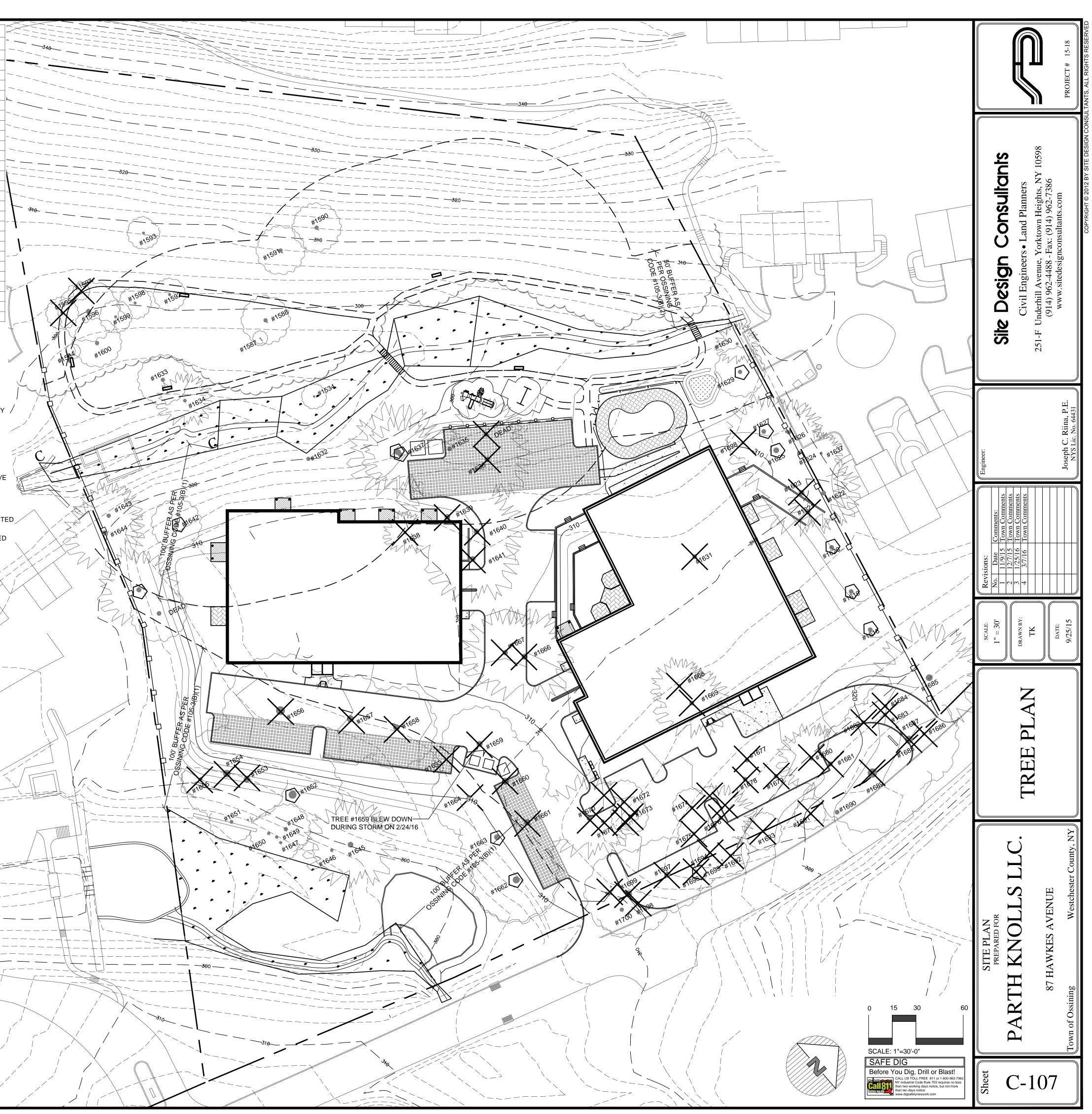




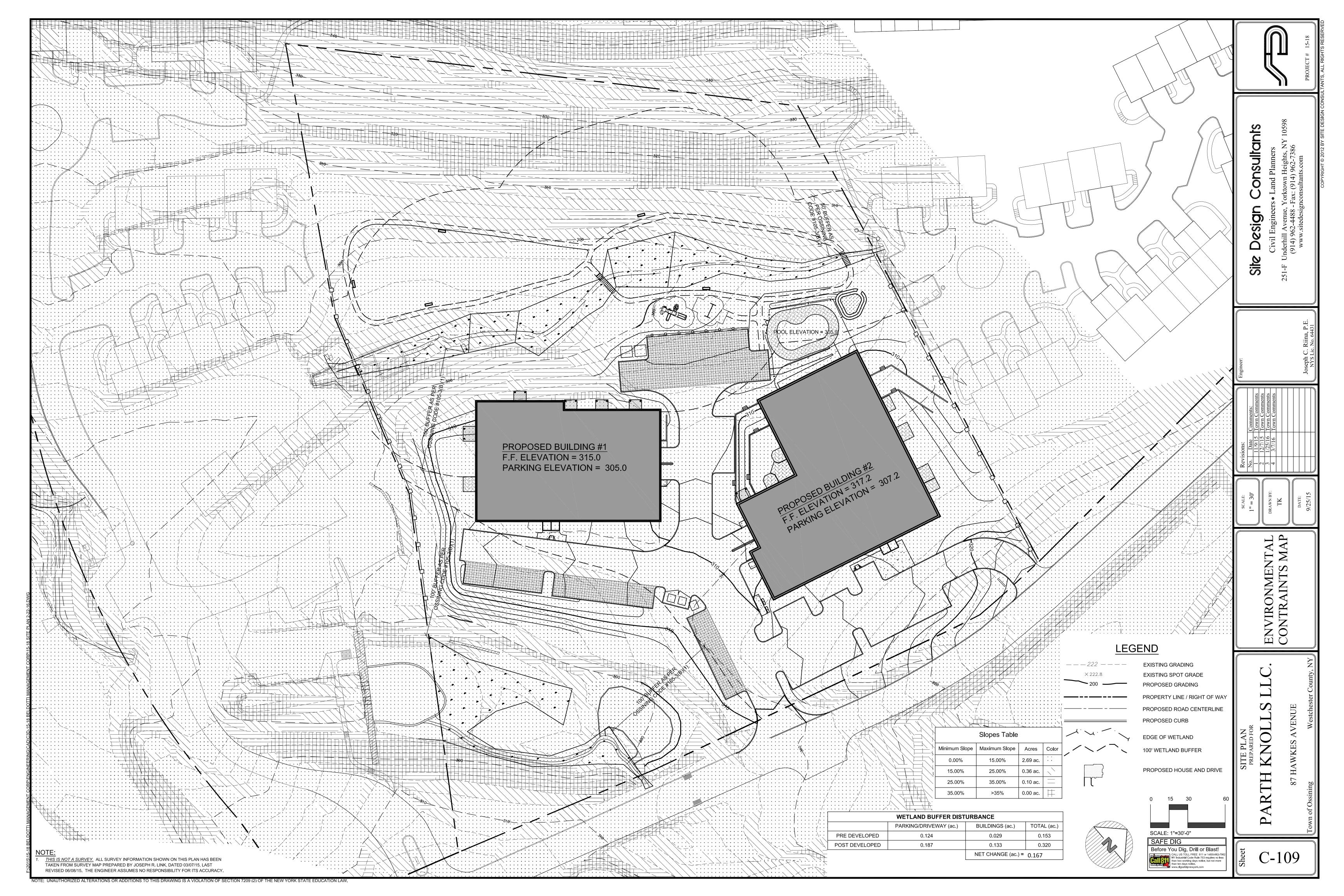


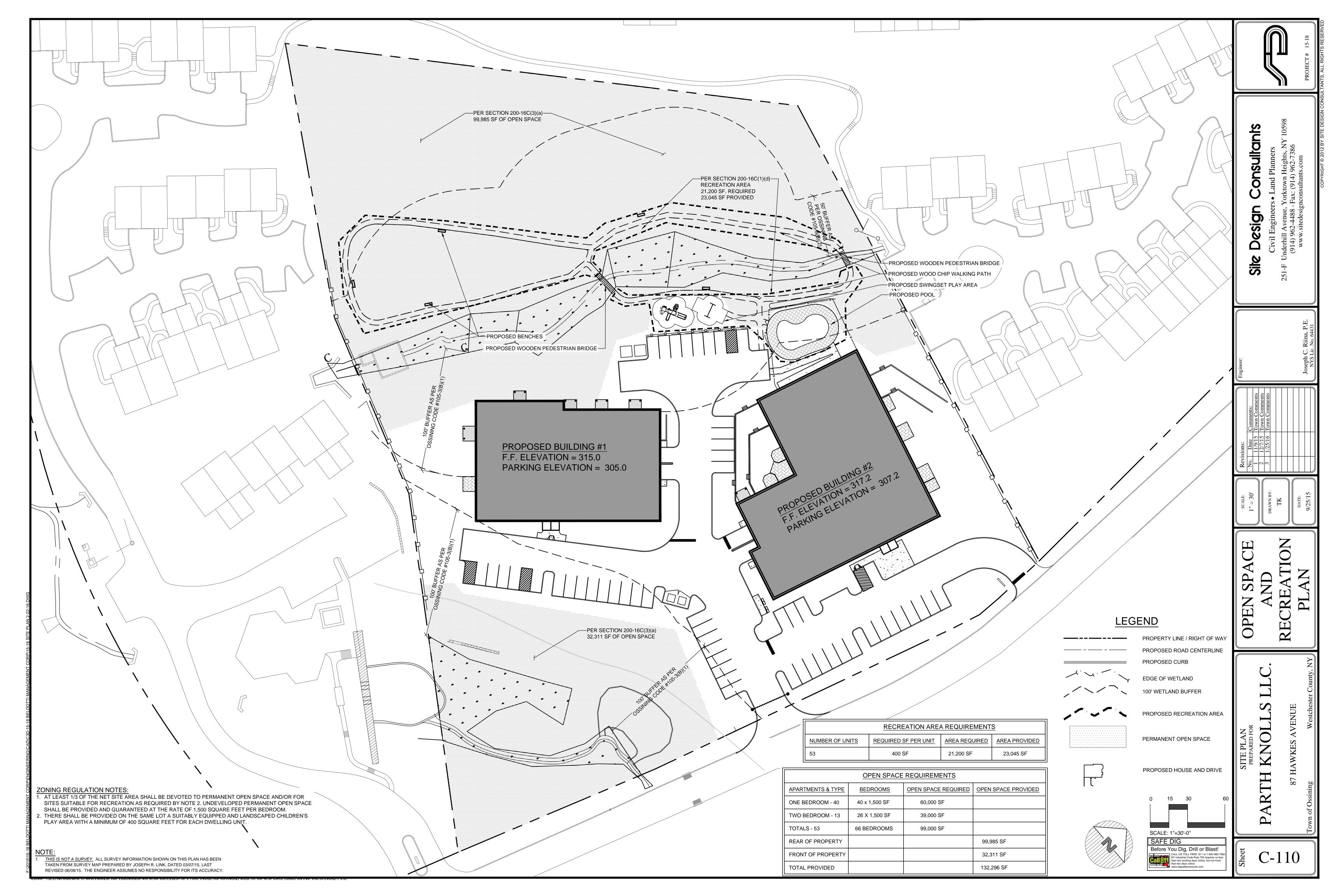
REVISED 06/08/15. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

		TREES EAST	OF STREAM				S WEST OF	STREAM
Tag #	Species	DBH	Condition		Tag #	Species	DBH	Condition
1700	Norway Maple Sugar Maple	15 32	Fair,One sided leaning over road Good healthy crown		1600 1599	Tulip poplar Red maple	32 19	Good
1698	Norway Maple	9	One sided leaning		1598	Red maple	224	Good
1697	Norway Maple Norway Maple	31 10	Good Fair, One sided leaning		1597 1596	Red maple Red maple	36	Poor Good
1695	Norway Maple	9	Fair, One sided leaning		1595	Red maple	22	Poor
1694	Norway Maple Black Cherry	9	Fair, One sided		1594	Tulip poplar	11	Fair
1693 1692	Norway Maple	13	Good, Tall spindly no lower branching Fair, Curved leaning		1593 1592	Red maple Red maple	21 18	Good
1691	Twin Norway Maple	10 + 14	Good, Full Crown		1591	Pin Oak	30	Good but leaning
1690	Red Maple Red Maple	26 42	Poor, Rotting trunk, Dead leader Good, Three large leaders		1590 1589	Pin Oak Beech	24	Good but leaning Good
1688	Red Maple	32	Fair, Some rotting scars. Sparse canopy		1589	Red maple	42	Good/Fair Craggy
1687	Tulip Poplar	13	Fair, Straight 20' then leans		1587	Black birch	11	Fair
1686	Norway Maple Norway Spruce	12	Fair, One sided Good, Lower branches all dead		1586	Triple Beech Red Oak	21/15/9	Good Good
1684	Black Birch	15	Healthy but bad leaning		1584	Pignut hickory	24	Good
1683 1682	Black Birch Red Oak	13	Healthy but bad leaning Good		1583 1582	Beech Sugar maple	11	Good
1681	Norway Spruce	23	Good, Lower branches all dead		1582	Black birch	12	Good
1680	Norway Spruce	26	Good, Lower branches all dead		1580	Red Oak	23	Fair but leaning
1679	Eastern White Pine	35	Good		1579	Red Oak Norway maple	11	Fair but tangled with adjacent tree
1677	Sassafras Twin	14 + 12	Good		1577	Tulip poplar	26	Good but leaning
1676	Norway Spruce Black Cherry	24	Fair, One sided bleeding Poor, Broken branches in crown		1576	Beech	12	Good
1675 1674	Black Cherry	10 9	Poor, Alive but uprooted		1575 1574	Birch Norway maple	20	Fair Good
1673	Gray Birch	12	Good, but leaning					
1672	Gray Birch Twin Norway Spruce	9 + 11	Good, but leaning Poor, dying					~
1671 1670	Norway Spruce	25	Dead mostly				EGEN	
1669	Norway Spruce	25	Good, Covered in Poison Ivy		2	22 — — — -	– EXI	STING GRADING
1668	Norway Spruce Norway Spruce	19	Fair, One sided covered in Poison Ivy		×	222.8	EXI	STING SPOT GRADE
1667 1666	Norway Spruce	39 25	Good Good			200	– PRC	POSED GRADING
1665	Norway Maple	11	Good				– PRC	PERTY LINE / RIGHT OF WAY
1664	Norway Maple Norway Maple	27	Fair, Trunk rot, weakened crown Good		- ` ` `	. <i>.</i>		
1662	Norway Maple	31	Fair, Weakened crown			_ `	Y EDG	GE OF WETLAND
1661	Norway Maple	26	Fair. Fire/Lightning damage, weak crown		/ \		<b>-</b> 100'	WETLAND BUFFER
1660	Norway Maple Red Maple	32 25	Good, But large dead leader should be pruned Poor, Trunk damage, weak crown					
1658	London Plane Tree	33	Fair, Poor crown growth				PRC	POSED BUILDING AND DRIVE
1657	Basswood	29	Good			ſ [		
1656 1655	Norway Maple Magnolia (Triple)	37	Good Good, but overshadowed by 1654		•			
1654	Norway Spruce	35	Good		1	ALL ALL	EXI	STING TREE TO BE PROTECTI
1653	Norway Spruce Norway Spruce	25	Good, no lower branches			Las Mar	EVI	STING TREE TO BE REMOVED
1652 1651	Norway Maple	30 18	Fair Good				EXI	STING TREE TO BE REMOVED
1650	Red Maple	13	Good					
1649	Norway Maple Norway Maple	12	Poor, Dead leader, weak crown Good but bad leaner					
1647	Norway Maple	16	Good but bad leaner					
1646	Magnolia (Quad)	10, 4, 4, 3	Good				$\langle  $	
1645 Untagged	Norway Spruce Norway Spruce	35	Poor, Choked by Poison Ivy Fair, Poison Ivy, tree near parking area				$\times$	
1644	Norway Spruce	~28	Fair				/	
1643	Norway Spruce	~22	Fair					
1642	Multi Trunk Taxa Norway Spruce	30	Good					
1640	Norway Spruce	32	Good		/			/
1639 1638	Norway Spruce Blue Spruce	33	Good Fair, One sided, Poison Ivy				ĺ,	
1637	Norway Spruce	28	Good		X	1		
1636	Eastern White Pine	40	Good		$\lambda$		1	
1635	Eastern White Pine Cedar (check SPP.)	28	Fair, One sided Good			, ,		
1633	Apple	13	Gnarly Old Apple Tree			```		
1632	Triple Magnolia	9 + 11 + 13	Good		l		\ \	
1631	Twin Pear Eastern White Pine	12 + 12 15	Good, Needs Pruning Good, but viny				$\langle \rangle$	
1629	Twin Pignut Hickory	23 + 17	Good, but slight southern lean				1	
1628	Red Oak Norway Spruce	11	Good			/	1	
1627 1626	Norway Spruce	26	Good			- 4	\	
1625	Norway Spruce	28	Good, but viny			$\langle \rangle$	`````	
1624	Norway Spruce Norway Spruce	22	Good		Ì,		١	
1623 1622	Norway Spruce	25 24	Good Good		)			
1621	Ailanthus	16	Good but a garbage tree					
1620	Norway Spruce Norway Spruce	24	Good, but viny Good, but viny					
1618	Tulip Poplar	21	Good					(F=>
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				, , , , , , , , , , , , , , , , , , ,	$\langle \langle \mathbf{I} \rangle \langle \mathbf{I} \rangle \rangle$	``	-7	/ _ /
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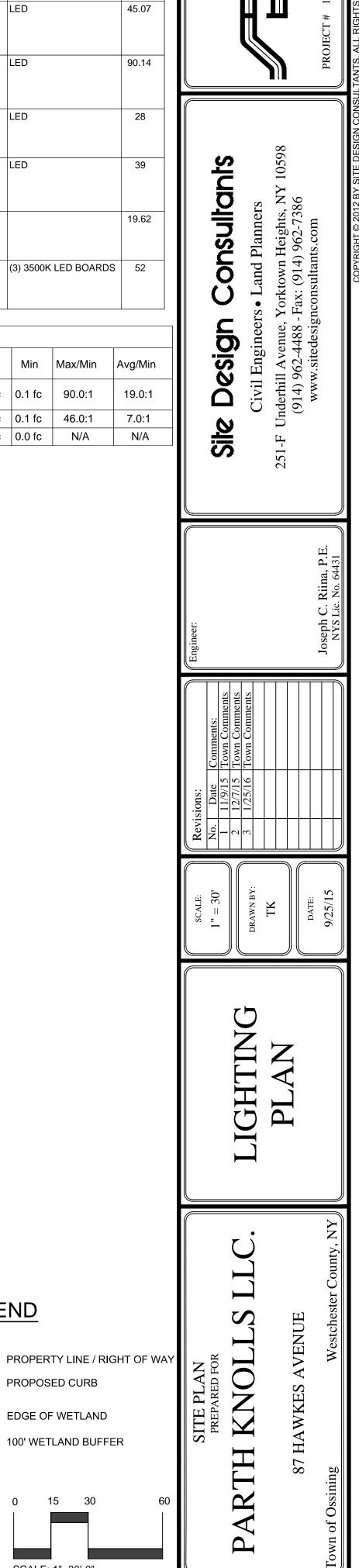








n	Number Lamps	Filename	Light Loss Factor	Lumen: Lar		Lamp		Wattage
D WITH (1) 20 LED LIGHT , TYPE T4M OPTIC, 4000K,	1	DSX0_LED_20C_700 _40K_T4M_MVOLT.ie s	0.9	4967.	.066	LED		45.07
D WITH (1) 20 LED LIGHT , TYPE T4M OPTIC, 4000K,	1	DSX0_LED_20C_700 _40K_T4M_MVOLT.ie s	0.9	4967.	.066	LED		90.14
S BOLLARD WITH 16 4000K ERATED AT 530mA AND RIC DISTRIBUTION	1	DSXB_LED_16C_530 _40K_SYM.ies	0.9	1602.	.745	LED		28
Revolution Deluxe LED Full 10LED, 4K with R3 n driven at 1050mA and le Shield.	1	247CL_10LEDE10_X XXX_4K_R3_HSS.ies	0.9	2202.	.522	LED		39
X 9.25"H. LED LUMINAIRE ENS	1	4640_18LED_WHT41 K_HSP.ies	0.9	140	09			19.62
Y DEEP CAST ROUND LED WITH POLYCARBONATE	1	VGR1C_50LED_3500 K_(CEILING_MOUNT ).ies	0.9	1605.	.856	(3) 3500F	( LED BOARDS	52
Il void all calculations.	Sta	atistics						
public record if	Des	scription	Symbol	Avg	Max	Min	Max/Min	Avg/Min
SUPPLIED. ary Code for night		e Lanes and king	+	1.9 fc	9.0 fc	0.1 fc	90.0:1	19.0:1
	Poc	I Security Lighting	+	0.7 fc	4.6 fc	0.1 fc	46.0:1	7.0:1
	Site	Trespass	<b>+</b>	0.0 fc	0.5 fc	0.0 fc	N/A	N/A



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LEGEND

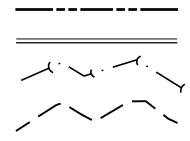
PROPOSED CURB

EDGE OF WETLAND

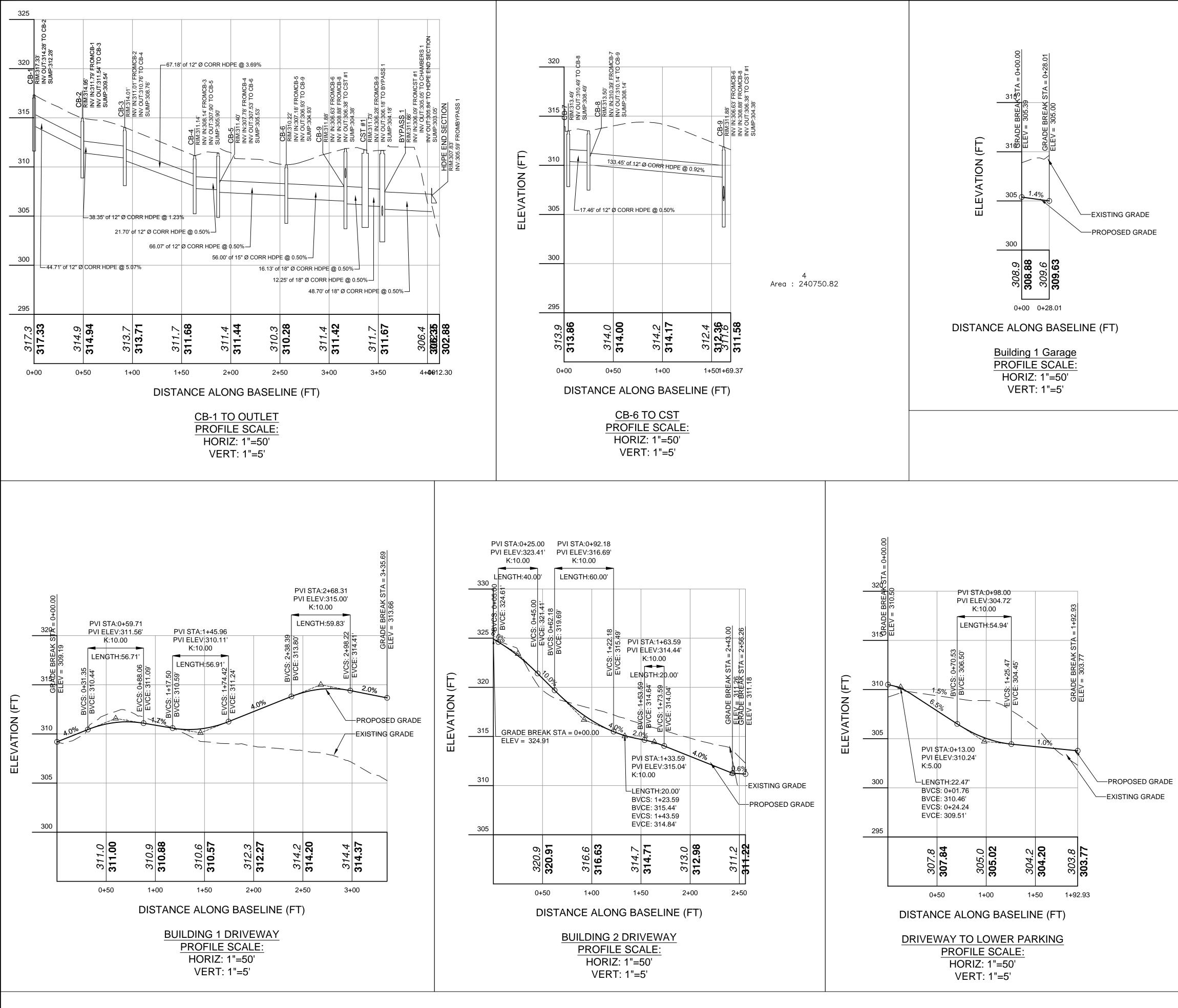
100' WETLAND BUFFER

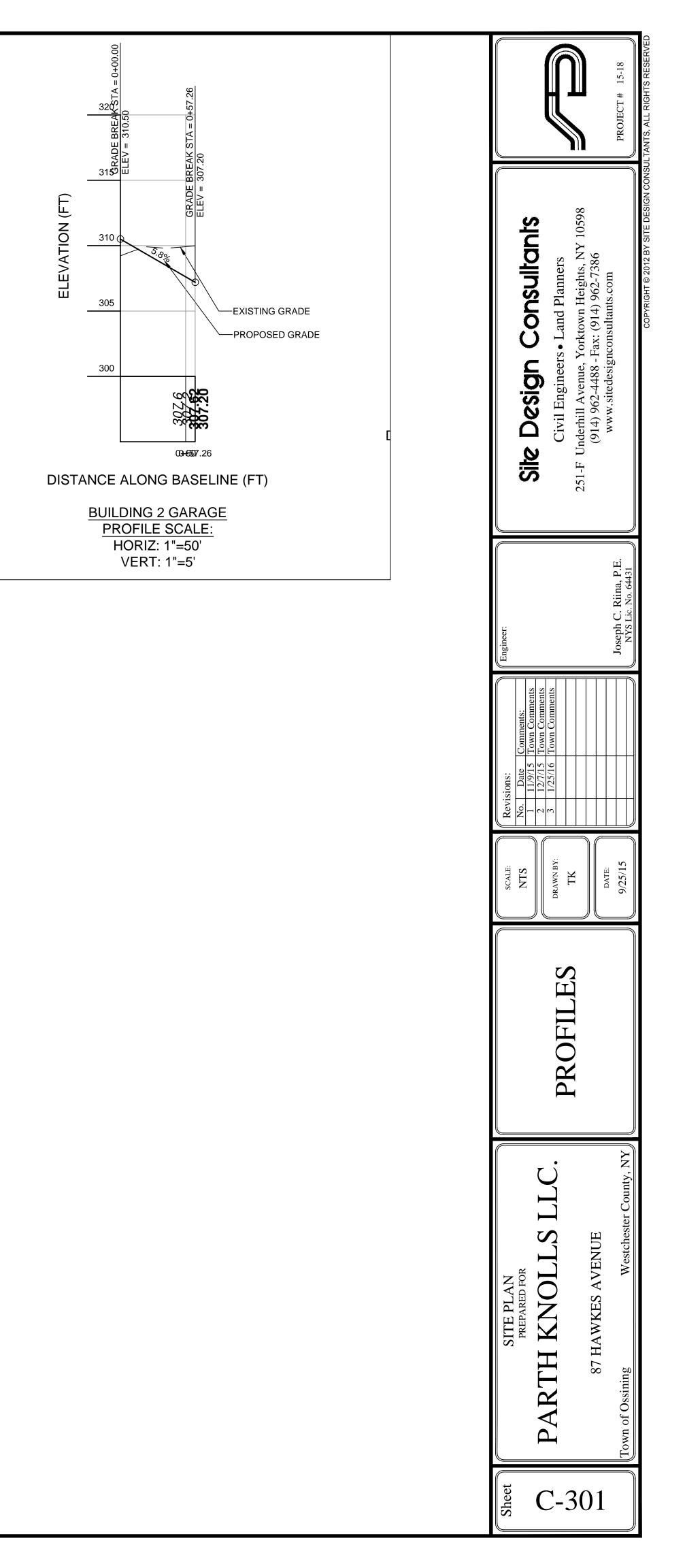
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# GENERAL NOTES:

- 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.
- 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 SEALAPPEARS ON THESE DRAWINGS. ANY SUCH CHANGES SHALL BE FILED AS AMENDMENTS TO THE ORIGINAL BUILDING
- 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 EMPLOYEE, 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
- CONSTRUCTIO 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 THE WORK UNDER THIS 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 AREAS TO BE DEVELOPED 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 MODIFIED 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.

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

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 GEOTECHINICAL 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.
- 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 IT'S 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 CONSTRICTION EQUIPMENT WITHIN 5' OF THE RETAINING WALLS OR NEW FOUNDATION WALLS. HAND OPERATED COMPACTING EQUIPMENT SHALL BE USED WITHIN 5' OF THE WALL FACE.
- 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

# 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.

6. SOILS USED AS BACKFILL SHALL CONSIST OF CLEAN DRY SOIL. THE MATERIAL SHALL BE GRANULAR

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.

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:

- 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 REQURIED 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 SETTLING 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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# **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.

- 1. 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.
- 2. 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
- 3. 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. 4. 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)
- 5. 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).
- 6. 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 stabilizing 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

- 7. 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. 8. A licensed surveyor must define the building locations.
- 9. Install or check condition of all temporary Erosion Control Measures as shown on the Erosion and Sediment Control Plan.
- 10. 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
- 11. 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 lines 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.

1. The Surveyor shall stake-out the proposed driveway centerlines. limits of cut and fill and the location of the temporary sediment traps.

- 2. Implement the General Sequence Notes 1 through 6 where applicable prior to continuing this Phase. 3. 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. 4. 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.
- 5. Prior to starting the work install all erosion and sediment controls including the installation of the stabilized construction entrance and sediment
- 6. Begin the removal of the existing driveway. Material shall be properly disposed of. 7. 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
- 8. Begin excavation of the building foundation for the Building and adjacent areas

Refer to Notes 7 through 12 under the General Sequence.

- 9. 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 cueing area for trucks awaiting loading.
- 10. 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.
- 11. 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. 12. 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. 13. 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. 14. 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. 15. 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.

16. Complete construction of the building and remaining retaining walls within Phase limits.

- 17. 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. 18. 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.
- 19. As each Phase is at the completion stage install final asphalt surface. 20. 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.
- 21. 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.
- 22. 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.

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

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.

- elevations.

- Construction Plans.

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

Anthony Beldotti

# GENERAL EROSION CONTROL NOTES:

- CONTROL" (NYSSESC).

# 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.

- RECOMMENDED BY THE MANUFACTURER.

1. 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.

2. 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. 3. Begin excavation for the building foundation for the building and adjacent areas. Refer to Notes 7 through 12 under the General Sequence.

4. Begin rough grading main access driveway and parking area for building 2. Connections to building 1 driveway shall be made at subgrade

5. 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. 6. 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. 7. 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. 8. 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. 9. Upon completion of the majority of the infrastructure in that phase, install pavement binder course to the thickness and elevation as per the

10. As the Phase is at the completion stage install final asphalt surface.

11. 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.

12. 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:

13. 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

14. Any areas deemed incomplete or not properly stabilized shall be done so to the satisfaction to the Supervising Engineer and Town Inspector. 15. 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:

1. 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.

2. 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.

3. 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.

4. 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

5. 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. 6. 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. 7. ALL DISTURBED AREAS WITHIN 500 FEET OF AN INHABITED DWELLING SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL.

8. 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.

9. SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED BY PERMANENT MEASURES.

10. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT EDITION OF NYSSESC. 11. 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. 12. 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

13. 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.

14. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. CONTRACTOR TO SUPPLY ALL EQUIPMENT AND WATER.

15. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION INSPECTIONS AS PER NYSDEC GP-0-15-002 AND TOWN OF OSSINING CODE.

1. TREES AND VEGETATION SHALL BE PROTECTED AT ALL TIMES AS SHOWN ON THE DETAIL DRAWING AND AS DIRECTED BY THE ENGINEER. 2. CARE SHOULD BE TAKEN SO AS NOT TO CHANNEL CONCENTRATED RUNOFF THROUGH THE AREAS OF CONSTRUCTION ACTIVITY ON THE SITE. 3. FILL AND SITE DISTURBANCES SHOULD NOT BE CREATED WHICH CAUSES WATER TO POND OFF SITE OR ON ADJACENT PROPERTIES. 4. 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.

5. 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. 6. 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. 7. ALL SITES SHALL BE STABILIZED WITH EROSION CONTROL MATERIALS WITHIN 7 DAYS OF FINAL GRADING.

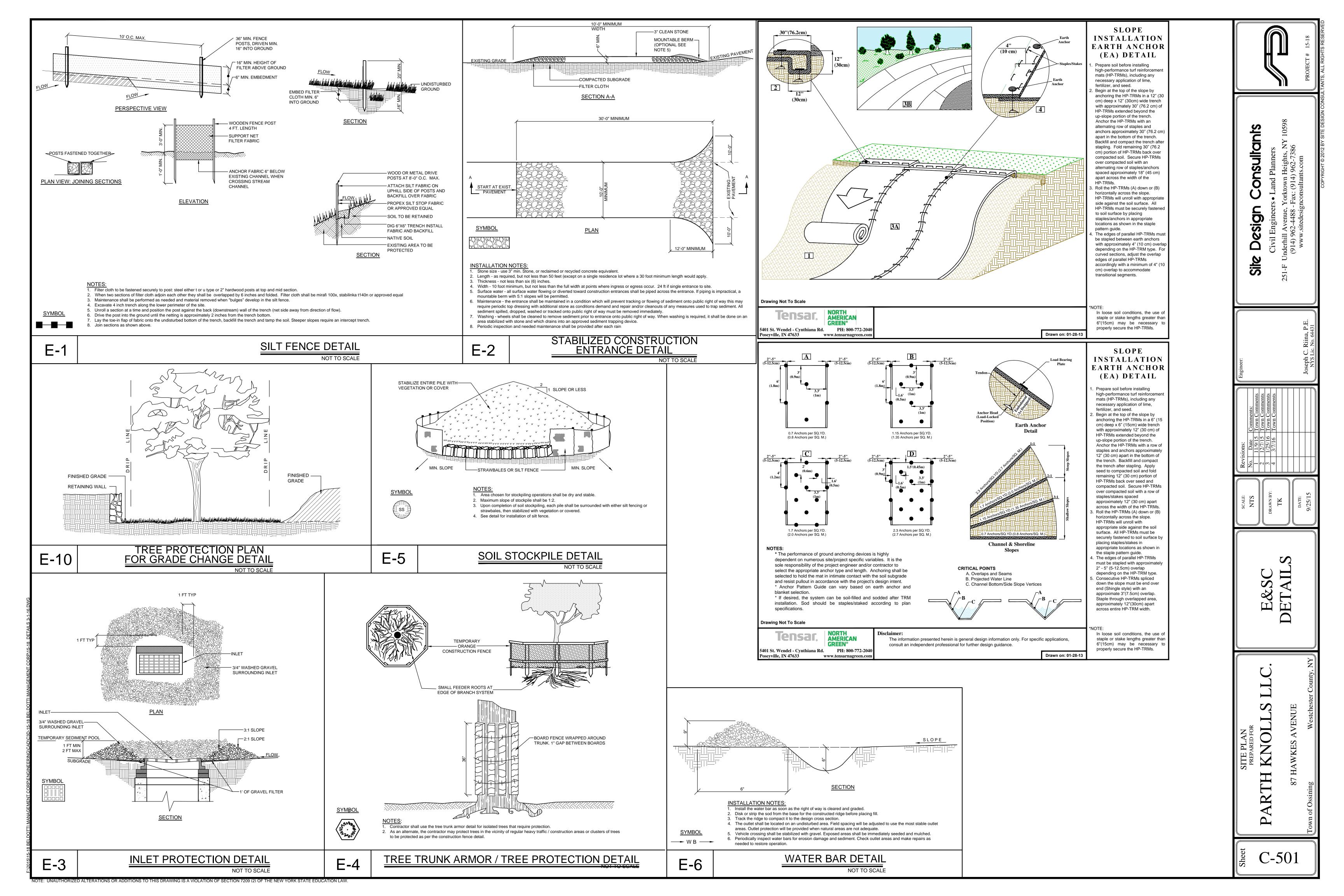
8. TEMPORARY SEDIMENT TRAPPING DEVICES SHALL BE REMOVED FROM THE SITE WITHIN 30 DAYS OF FINAL STABILIZATION.

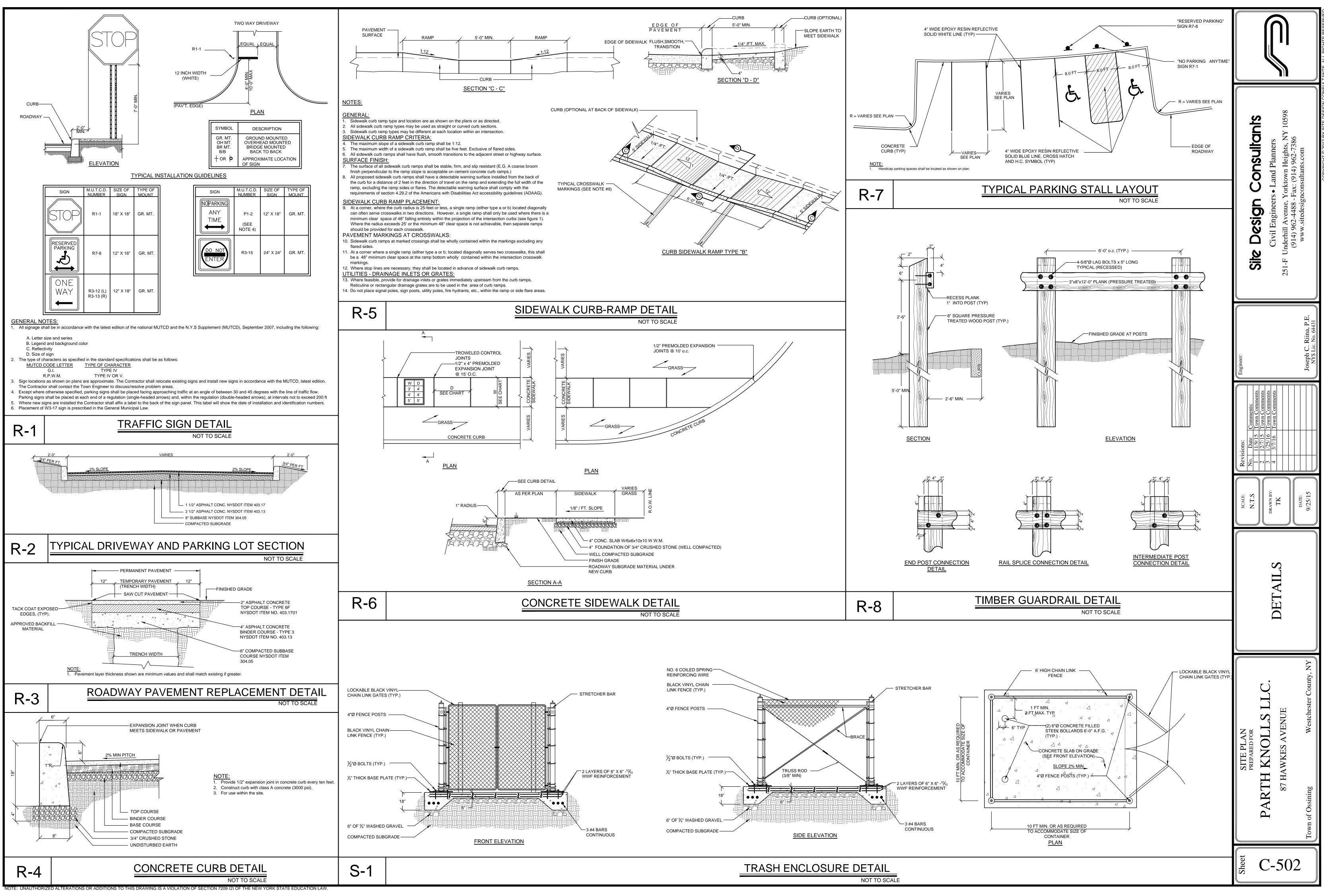
INTENANCE SCHEDULE:		
DAILY WEEKLY MONTHLY AFTER RAINFALL AFTER TO MAINTAIN APPROVAL FUNCTION OF INSPECTO		
FENCE      INSP.     INSP.     CLEAN/ REPLACE     REMOVE		
NER INSP INSP CLEAN REPLACE REMOVE		
	a regular basis and after every rainfall event. Sediment build up shall be removed	<b>IS</b> 10598
the inlet protection regularly to insure detention capacity and proper drainate of obstruction. Any sediment build up shall be removed.	age. Outlet structure shall be free of obstructions. All piping and drain inlets shall	
	y for the first few months after construction and on an annual basis thereafter. They	38°, ers
BRIS AND LITTER REMOVAL: a year, inspect outlet structure and drain inlets for accumulated debris. A	lso, remove any accumulations during each mowing operation.	<ul> <li>Consult</li> <li>Panners</li> <li>Yorktown Heights,</li> <li>Fax: (914) 962-738</li> </ul>
RUCTURAL REPAIR/REPLACEMENT: et structure must be inspected twice a year for evidence of structural damage		Constraints Constraints Constraints Constraints Constraints (914) 9(14)
DSION CONTROL: able areas tributary to the basin shall immediately be stabilized with vegetar	tion or other appropriate erosion control measures.	
DIMENT REMOVAL: ment should be removed after it has reached a maximum depth of five inch		ginee venue -4488
PSOIL:		<b>Z</b> I Er 962
	g with other excavation. Stockpiles shall be surrounded by erosion control as all to the following criteria (SS713.01 NYSDOT):	Civil Civil (914)
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%.		Sile 251-F U
Gradation: <u>SIEVE SIZE</u> <u>% PASSING BY WGT.</u> 2 INCH 100		251
1 INCH 85 TO 100 1/4 INCH 65 TO 100		
RMANENT VEGETATIVE COVER: Site preparation:		
<ol> <li>Install erosion control measures.</li> <li>Scarify compacted soil areas.</li> <li>Lime as required to ph 6.5.</li> </ol>		
<ul> <li>.3. Line as required to ph 6.5.</li> <li>.4. Fertilize with 10-6-4 4 lbs/1,000 S.F.</li> <li>.5. Incorporate amendments into soil with disc harrow.</li> </ul>		eer:
Seed mixtures for use on swales and cut and fill areas. <u>MIXTURE</u> <u>LBS./AC</u>		Engin
ALT. A KENTUCKY BLUE GRASS 20 CREEPING RED FESCUE 28 BYE GRASS OF BEDTOR 5		
RYE GRASS OR REDTOP5ALT. BCREEPING RED FESCUE20	0	ents: Comments Comments Comments
REDTOP 2 TALL FESCUE/SMOOTH BLOOMGRASS 20		
SEEDING 3.1. Prepare seed bed by raking to remove stones, twigs, roots and other		:: 16 16 16
<ul> <li>Apply soil amendments and integrate into soil.</li> <li>Apply seed uniformly by cyclone seeder culti-packer or hydro-seeder</li> <li>Stabilize seeded areas in drainage swales.</li> </ul>	er at rate indicated.	visions: Dat 11/9/ 3/7/
<ul> <li>Stabilize seeded areas in drainage swales.</li> <li>Irrigate to fully saturate soil layer, but not to dislodge planting soil.</li> <li>Seed between April 1st and May 15th or August 15th and October 1</li> </ul>	15th.	Rev           1           2           3           3
MPORARY VEGETATIVE COVER:		
E PREPARATION: Install erosion control measures.		SCALE: N.T.S N.T.S DRAWN BY: TK
Scarify areas of compacted soil. Fertilize with 10-10-10 at 400/acre.		
Lime as required to ph 6.5.		
D SPECIES: <u>TURE</u> <u>LBS./ACRE</u> idly germinating annual ryegrass 20		S
approved equal) ennial ryegrass 20 20		L H
eal oats 36		Ó
DING: e as permanent vegetative cover		
		SC
WNER / OPERATOR CERTIFICATION certify under penalty of law that this document and all attachments were	CONTRACTOR CERTIFICATION STATEMENT Certification Statement - All contractors and subcontractors as identified in a	R&S
pared under my direction or supervision in accordance with a system signed to assure that qualified personnel properly gathered and	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,	
aluated the information submitted. Based on my inquiry of the person or sons who manage the system, or those persons directly responsible for	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:	
thering the information, the information submitted is, to the best of my owledge and belief, true, accurate, and complete. Further, I hereby certify it the SWPPP meets all Federal, State, and local erosion and sediment	"I hereby certify that I understand and agree to comply with the terms and conditions	
ntrol requirements. I am aware that false statements made herein are nishable as a Class A misdemeanor pursuant to Section 210.45 of the	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	
nal Law."	Discharge Elimination System ("SPDES") General Permit for Stormwater Discharge from Construction Activities and that it is unlawful for any person to cause or	
me (please print):	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	N JR VENUJ
e:	and/or administrative proceedings."	A D R
dress:	Individual Contractor:	SITE PI REPARE KNC WKES
one:	Signature of Contractor: Company / Contracting Firm:	
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gnature:	Address of Company:	AR
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	Today's Date:	
		Sheet C-2

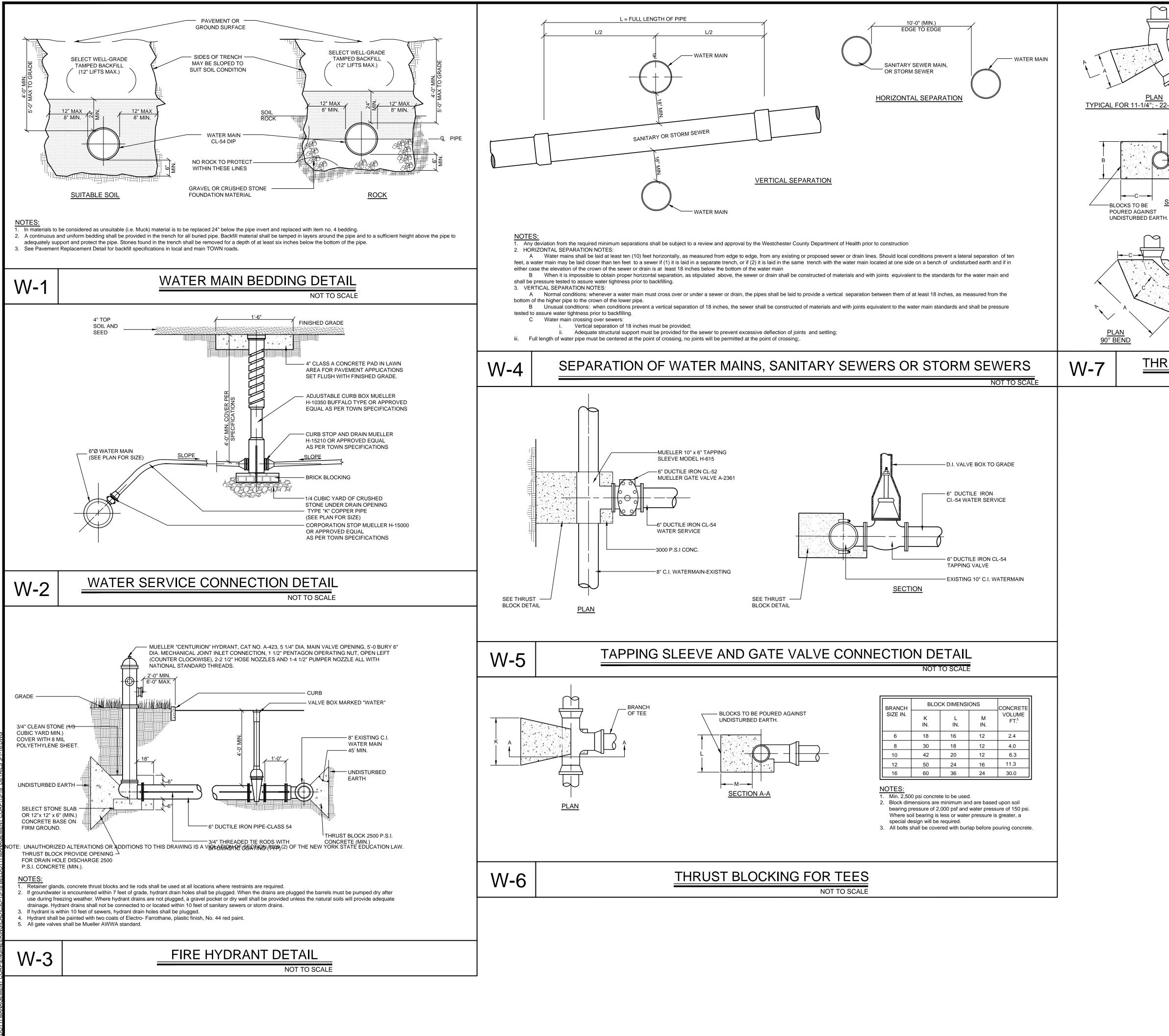
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DAILY WEEKLY MONTHLY AFTER RAINFALL AFTER RAINFALL NECESSARY AFTER TO MAINTAIN APPROVAL FUNCTION OF INSPECTO	DR	
SILT FENCE INSP. INSP. CLEAN/ REPLACE REPLACE		
WHEEL     CLEAN       REPLACE     REMOVE		
INLET PROTECTION INSP. INSP. CLEAN REPLACE REMOVE		
MAINTENANCE OF PERMANENT CONTROL STRU	CTURES DURING CONSTRUCTION: a regular basis and after every rainfall event. Sediment build up shall be removed	80
	ige. Outlet structure shall be free of obstructions. All piping and drain inlets shall	<b>nrs</b> 7 10598
AINTENANCE OF CONTROLS AFTER CONSTRU Controls (including respective outlet structures) should be inspected periodically	CTION: for the first few months after construction and on an annual basis thereafter. They	JID JID JID JID JID JID JID JID JID JID
hould also be inspected after major storm events. DEBRIS AND LITTER REMOVAL:		<b>DDSUITO</b> nd Planners wn Heights, N 914) 962-7386 Iltants.com
wice a year, inspect outlet structure and drain inlets for accumulated debris. A STRUCTURAL REPAIR/REPLACEMENT:		CODSI • Land Plan orktown Heig ax: (914) 962 consultants.cc
Outlet structure must be inspected twice a year for evidence of structural damage ROSION CONTROL:		<ul> <li>Consul</li> <li>Panners</li> <li>Yorktown Height</li> <li>Fax: (914) 962-7</li> <li>Gnconsultants.com</li> </ul>
nstable areas tributary to the basin shall immediately be stabilized with vegetat EDIMENT REMOVAL: ediment should be removed after it has reached a maximum depth of five inch		
<b>FOPSOIL:</b> Existing topsoil will be removed and stored in piles sufficiently as to avoid mixing		<b>D</b> Civil F Inderhill (914) 96 www.
butlined on these plans. The furnishing of new topsoil shall be of a better or equ 1. The pH of the material shall be 5.5 to 7.6.	al to the following criteria (SS713.01 NYSDOT):	
<ol> <li>The organic content shall not be less than 2% or more than 70%.</li> <li>Gradation: <u>SIEVE SIZE</u> <u>% PASSING BY WGT.</u></li> <li>2 INCH 100</li> </ol>		<b>Si</b> 251-F
1 INCH     85 TO 100       1/4 INCH     65 TO 100		
PERMANENT VEGETATIVE COVER: 1. Site preparation: 1.1. Install erosion control measures.		a, P.E.
<ol> <li>Install erosion control measures.</li> <li>Scarify compacted soil areas.</li> <li>Lime as required to ph 6.5.</li> </ol>		. Riina,
<ol> <li>Fertilize with 10-6-4 4 lbs/1,000 S.F.</li> <li>Incorporate amendments into soil with disc harrow.</li> </ol>		ngineer: Joseph C
2. Seed mixtures for use on swales and cut and fill areas. <u>MIXTURE</u> ALT. A KENTUCKY BLUE GRASS 20		Engi Jos
CREEPING RED FESCUE 28 RYE GRASS OR REDTOP 5		ents ents ents
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REDTOP 2 TALL FESCUE/SMOOTH BLOOMGRASS 20 3. SEEDING		Town       Town
<ul><li>3.1. Prepare seed bed by raking to remove stones, twigs, roots and othe</li><li>3.2. Apply soil amendments and integrate into soil.</li></ul>		ons: Date <u>1/9/15</u> <u>2/7/16</u> 3/7/16
<ul> <li>3.3. Apply seed uniformly by cyclone seeder culti-packer or hydro-seeder</li> <li>3.4. Stabilize seeded areas in drainage swales.</li> <li>3.5. Irrigate to fully saturate soil layer, but not to dislodge planting soil.</li> </ul>	er at rate indicated.	Revisions 1 11/6 3 1/2/ 4 3/7
<ul> <li>3.6. Seed between April 1st and May 15th or August 15th and October 1</li> <li>3.7. Seeding may occur May 15th and August 15th if adequate irrigation</li> </ul>		
TEMPORARY VEGETATIVE COVER:		LE: K K K K K
<ol> <li>Install erosion control measures.</li> <li>Scarify areas of compacted soil.</li> <li>Fertilize with 10-10-10 at 400/acre.</li> </ol>		SCALE: N.T.S N.T.S DRAWN B' TK TK DATE: DATE:
<ol> <li>Fertilize with 10-10-10 at 400/acre.</li> <li>Lime as required to ph 6.5.</li> </ol>		
SEED SPECIES: <u>/IXTURE</u> <u>LBS./ACRE</u>		Ň
Rapidly germinating annual ryegrass20or approved equal)20Verennial ryegrass20		
Cereal oats 36		LON
EEDING: ame as permanent vegetative cover		
		S C
OWNER / OPERATOR CERTIFICATION "I certify under penalty of law that this document and all attachments were	CONTRACTOR CERTIFICATION STATEMENT Certification Statement - All contractors and subcontractors as identified in a	R S S
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	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	
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	Certification Statement before undertaking any construction activity at the Site identified in the SWPPP:	X
knowledge and belief, true, accurate, and complete. Further, I hereby certify that the SWPPP meets all Federal, State, and local erosion and sediment	"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	Countv.]
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."	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	
Name (please print):	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	
Title:	permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings."	AN FOR LLLS VENUF Westche
Date:	Individual Contractor:	SITE PLAN prepared for <b>KNOL</b> AWKES AVI
Address:	Name and Title (please print):	SITE PI preparej KNC
Phone:	Company / Contracting Firm:	H <sup>/H</sup>
E-mail: Signature:	Address of Company:	ART 87 Ossining
	Telephone Number / Cell Number:         Site Information:	PA
	Address of Site:	
	Today's Date:	
		Sheet C-5

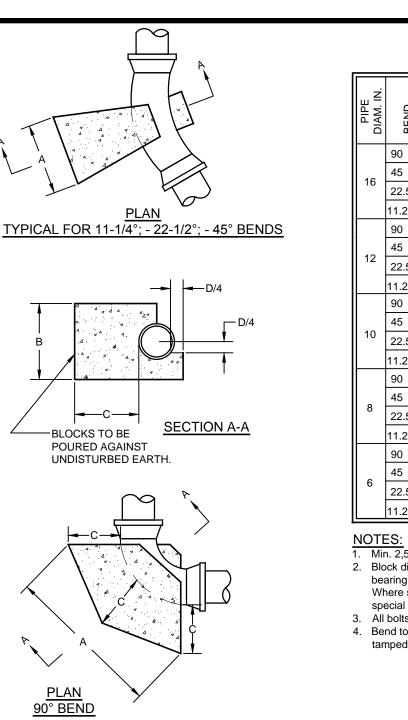
LT. B	CREEPING R
	REDTOP

<b>OWNER / OPERATOR CERTIFIC</b>
"I certify under penalty of law that this docu
prepared under my direction or supervision
designed to assure that qualified personne
evaluated the information submitted. Base
persons who manage the system, or those
gathering the information, the information s
knowledge and belief, true, accurate, and e
that the SWPPP meets all Federal, State,
control requirements. I am aware that false
punishable as a Class A misdemeanor pur
Penal Law."









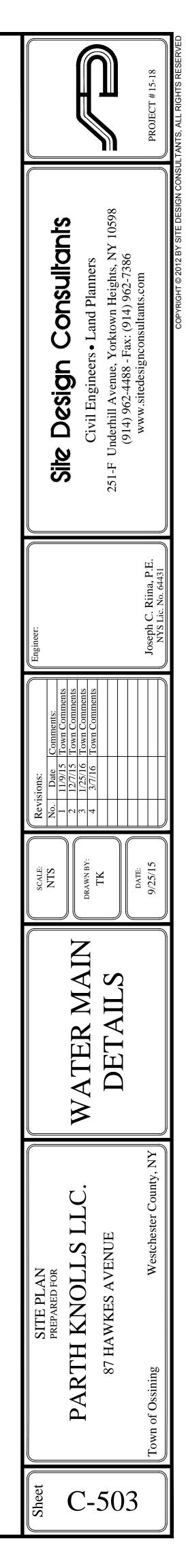
ż		BLOCK DIMENSIONS			
PIPE DIAM. IN.	BEND	A IN.	B IN.	C IN.	VOLUME FT. <sup>3</sup>
16	90	80	32	32	39.5
	45	48	28	30	19.7
	22.5	30	22	26	10.0
	11.25	20	18	12	3.8
	90	56	26	20	15.0
40	45	38	22	10	7.7
12	22.5	20	20	12	3.6
	11.25	18	18	12	3.0
	90	48	22	16	8.9
	45	28	20	12	4.0
10	22.5	18	18	12	2.7
	11.25	16	16	12	2.2
	90	34	20	12	4.4
•	45	20	18	12	2.5
8	22.5	14	14	12	1.6
	11.25				(3)
	90	24	16	12	2.5
~	45	14	14	12	1.5
6	22.5	12	12	12	1.2
	11.25				(3)

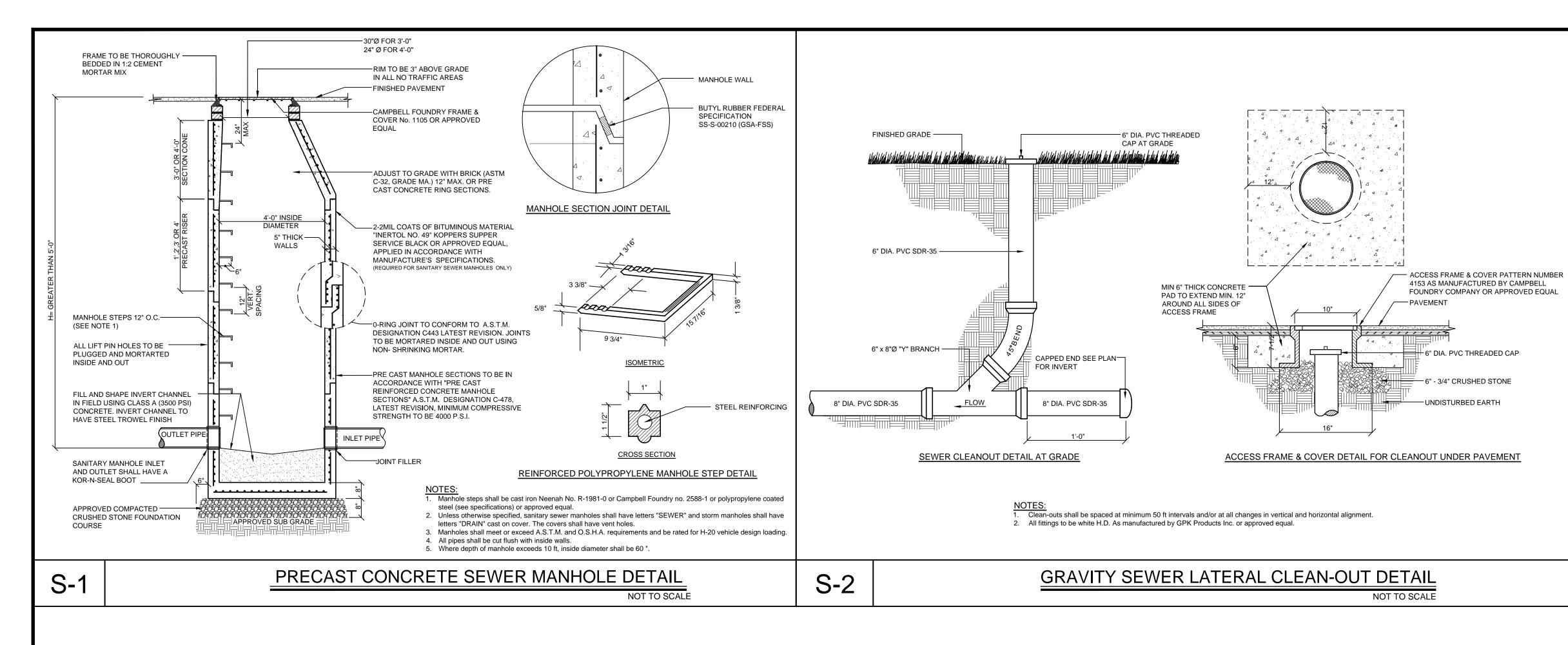
NOTES: 1. Min. 2,500 psi concrete to be used. 2. Block dimensions are minimum and are based upon soil bearing pressure of 2,000 psf and water pressure of 150 psi.

Where soil bearing is less or water pressure is greater, a special design will be required. 3. All bolts shall be covered with burlap before pouring concrete. 4. Bend to be set against disturbed earth, backfill to be firmly tamped, or block to be furnished as directed by the engineer.

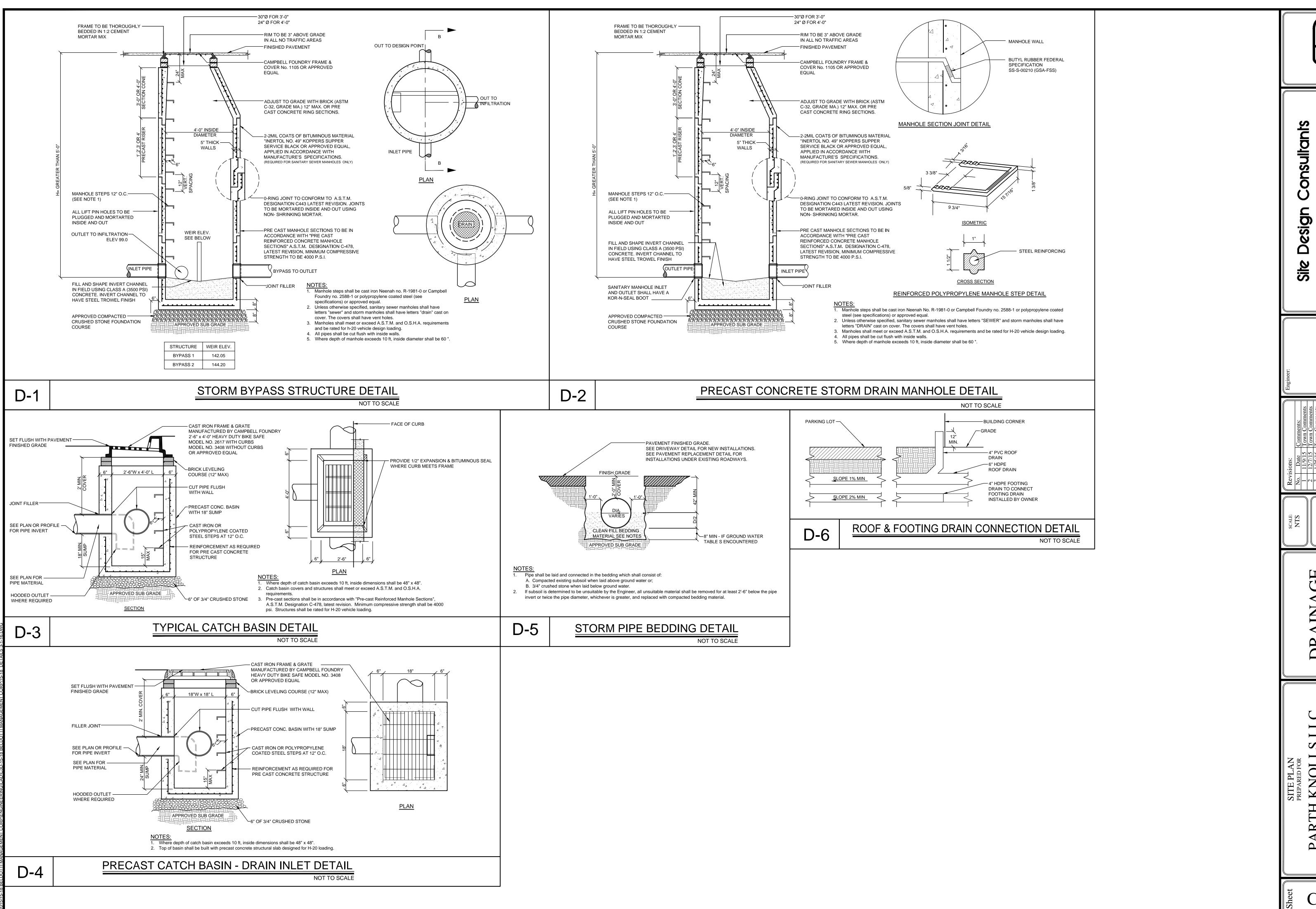
THRUST BLOCKING FOR HORIZONTAL BENDS

NOT TO SCALE





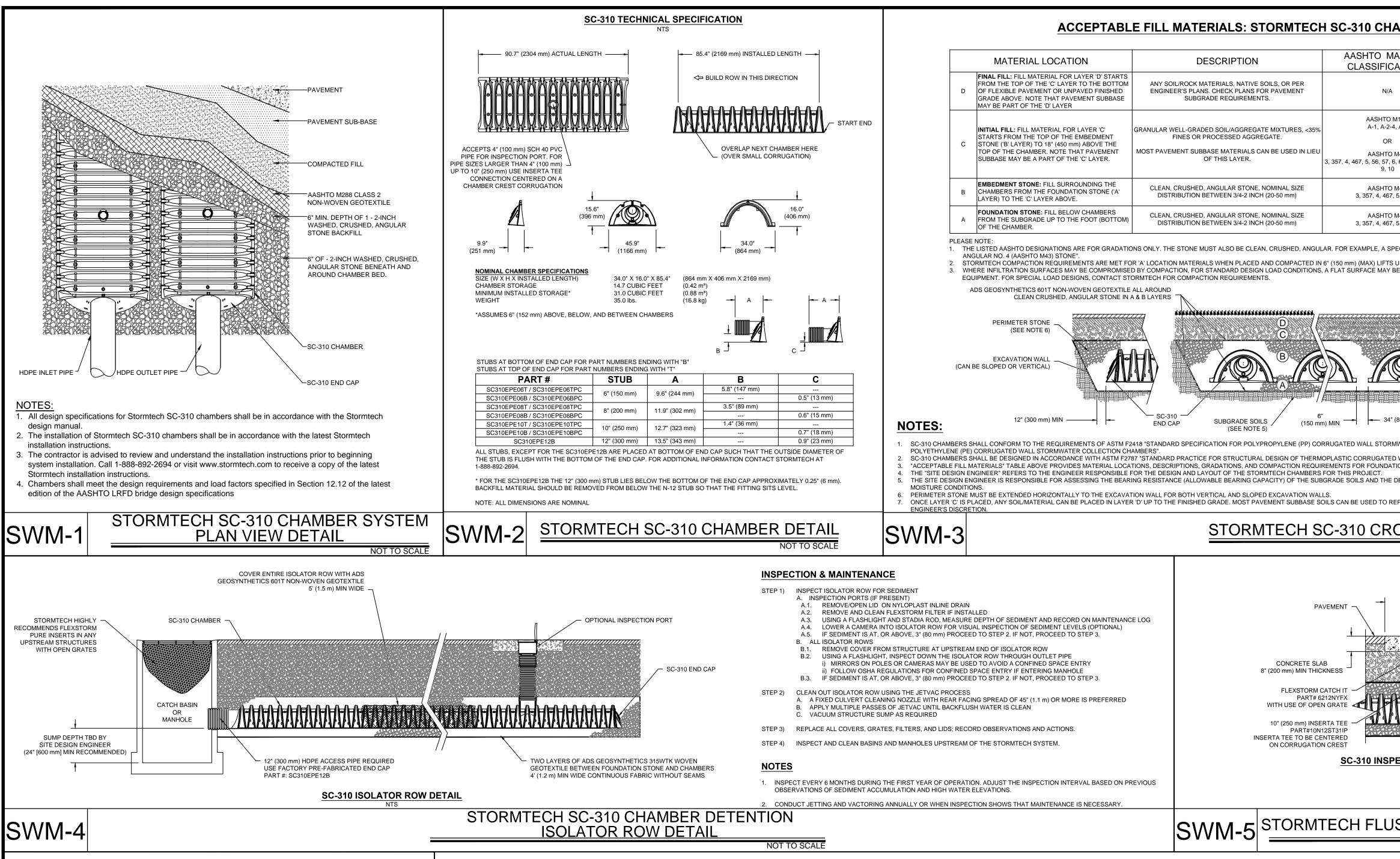
PROJECT # 15-18
Sile Design Consultants Civil Engineers • Land Planners Civil Engineers • Land Planners 251-F Underhill Avenue, Yorktown Heights, NY 10598 (914) 962-4488 • Fax: (914) 962-7386 www.sitedesignconsultants.com PROJECT # 15-18 PROJECT # 15-18
Engineer: Joseph C. Riina, P.E. NYS Lic. No. 64431
Revisions:       No.     Date       1     11/9/15       2     12/7/15       3     1/25/16       4     3/7/16       7     10mm Comments
SCALE: NTS NTS DRAWN BY: TK DATE: 9/25/15
SANITARY SEWER DETAILS
SITE PLAN PREPARED FOR PARTH KNOLLS LLC. 87 HAWKES AVENUE Town of Ossining Westchester County, NY
Sheet C-204

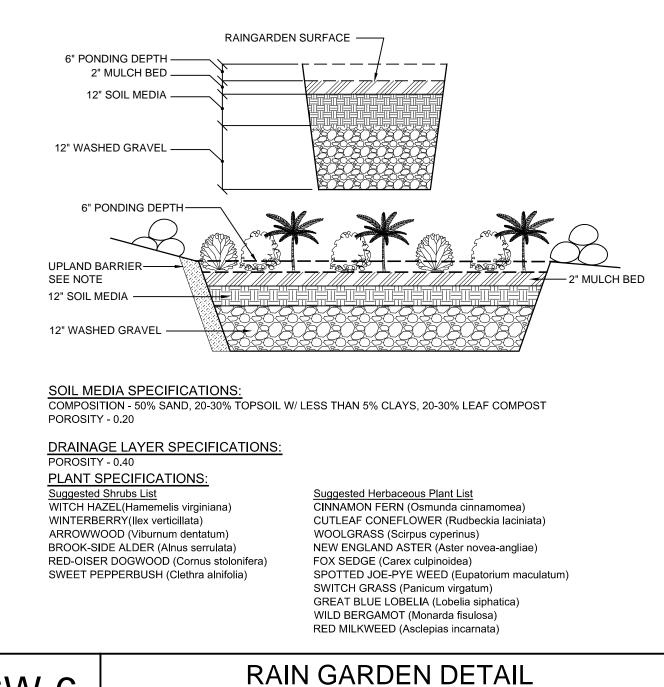


5-18 BELDOTTI MANAGEMENT CORP\ENGIN

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	Sile 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. Riina, P.E.	NYS Lic. No. 64431
Revisions:	No.DateComments:111/9/15Town Comments212/7/15Town Comments	31/25/16Town Comments43/7/16Town Comments			
SCALE:	STN	DRAWN BY: TK		DATE: 9/25/15	
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SITE PLAN	PREPARED FOR	H KNULLS LLC.	87 HAWKES AVENUE	Westchester County, NY	
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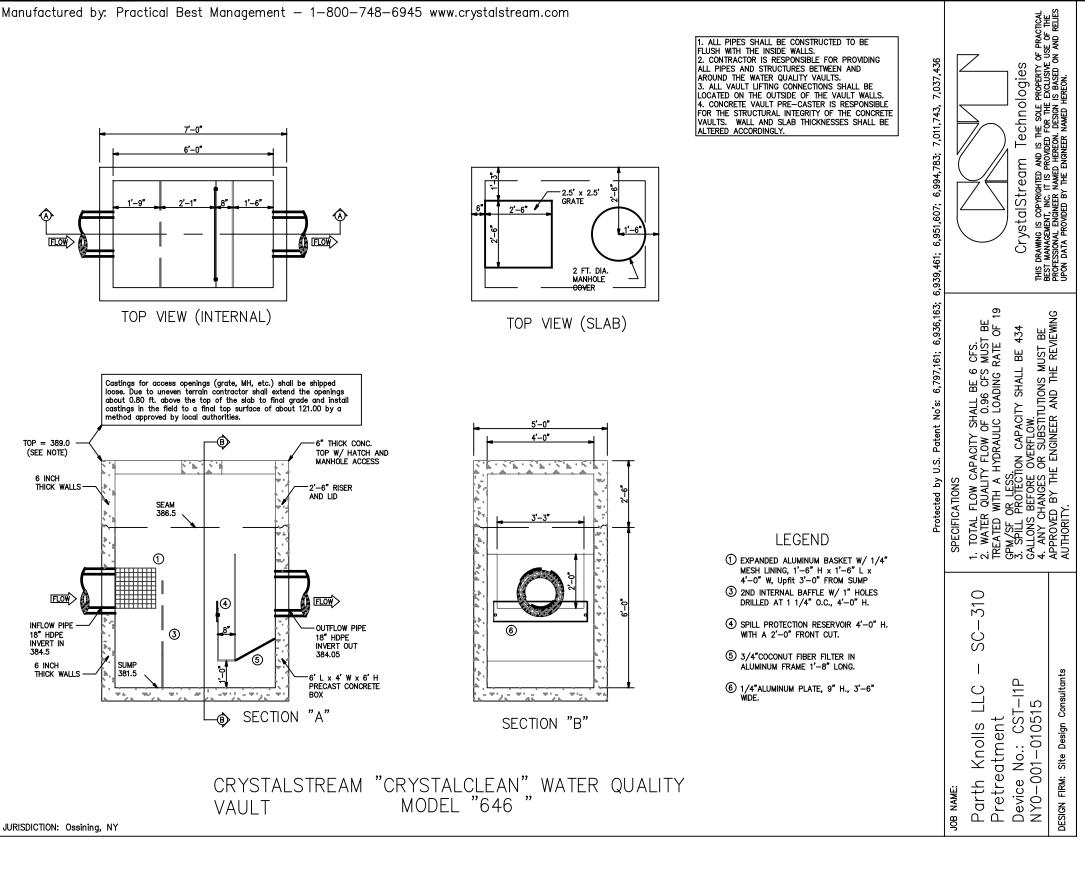


SW-6

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

AMBER SY	<u>STEMS</u>		
ATERIAL ATIONS	COMPACTION / DENSITY REQUIREMENT		PROJECT # 15-18
	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.		PROJE
M145¹ I, A-3	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR		
M43 <sup>1</sup> 5, 67, 68, 7, 78, 8, 89,	WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).		86
M43 <sup>1</sup> 5, 56, 57	NO COMPACTION REQUIRED.		<b>This</b>
M43 <sup>1</sup> 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2</sup> <sup>3</sup>		<b>OnSultants</b> and Planners wn Heights, NY 1059 914) 962-7386 iltants.com
USING TWO FULL CO	4 STONE WOULD STATE: "CLEAN, CRUSHED, OVERAGES WITH A VIBRATORY COMPACTOR.		<b>Consulto</b> <b>Consulto</b> Engineers • Land Planners Il Avenue, Yorktown Heights, N 962-4488 - Fax: (914) 962-7386 w.sitedesignconsultants.com
PAVE	KING OR DRAGGING WITHOUT COMPACTION MENT LAYER (DESIGNED TE DESIGN ENGINEER)		Yorkt Yorkt -Fax:
	6" (150 mm) 8'		<b>Z Design</b> Civil Engineers Underhill Avenue, Y (914) 962-4488 - F www.sitedesigno
	MIN 18" (2.4 m) (450 mm) MIN* MAX 16"		DCivil E Civil E (914) 96 www.5
	(405 mm)		
(865 mm) —	DEPTH OF STONE TO BE DETERMINED     BY DESIGN ENGINEER 6" (150 mm) MIN     12" (300 mm) TYP		Sit <sup>251-F</sup>
	IN CHAMBERS", OR ASTM F2922 "STANDARD SPECIFIC. ER COLLECTION CHAMBERS".	ATION FOR	
TION, EMBEDMENT, A	AND FILL MATERIALS.	F EXPECTED SOIL	(a, P.E. 64431
	IAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE I	ESIGN	Riin
OSS SEC	CTION DETAIL NOT TO SCALE		Engineer: Joseph C.
━ 18" (450 ∏	nm) MIN WIDTH		Comments: Town Comments Town Comments Town Comments Town Comments
	12" (300 mm) NYLOPLAST INLINE DRAIN BODY W/SOLID HINGED COVER OR GRATE		
	PART# 2712AG10N SOLID COVER: 1299CGC GRATE: 1299CGS		Revisions: No. Date 1 11/9/15 3 1/25/16 4 3/7/16
MA	10" (250 mm) ADS N-12 HDPE PIPE		Rev 3 3 3 1 1 4 4
	SC-310 CHAMBER		
PECTION PORT NTS	<u> T DETAIL</u>		SCALE: NTS NTS DRAWN BY TK DATE: 9/25/15
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			PAR7 8' Town of Ossining
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# 3.1 INSPECTION OVERVIEW

THE UNIT IS DESIGNED AND SPECIFIED IN MOST APPLICATIONS TO COMPLY WITH THE NON-POINT SOURCE MANDATES OF THE CLEAN WATER ACT AND THE NPDES REGULATIONS. THESE REGULATIONS STATE THAT ANY BMP (BEST MANAGEMENT PRACTICE) NEEDS TO BE INSPECTED EVERY 90 DAYS AND CLEANED AND MAINTAINED AS NEEDED. MANY LOCAL REGULATIONS HAVE SIMILAR REQUIREMENTS AND ALL FEDERAL, STATE AND LOCAL REQUIREMENTS MUST BE MET. CRYSTALSTREAM TECHNOLOGIES RECOMMENDS VISUAL INSPECTION ON A 30-DAY CYCLE AS WELL AS SEDIMENT DEPTH INSPECTION, DURING THE CONSTRUCTION PHASE. THE UNIT INSPECTION IS DONE TO DETERMINE THE OPERATIONAL STATUS OF THE UNIT AND DETERMINE IF A CLEANING CYCLE IS NECESSARY AS WELL AS TO MEET ANY JURISDICTIONAL ORDINANCE REQUIREMENTS. ALL INSPECTIONS MUST BE DOCUMENTED (APPENDIX 2). WHEN CONSTRUCTION HAS BEEN COMPLETED AND THE SITE HAS STABILIZED, THE CST UNIT SHOULD BE INSPECTED EVERY 90 DAYS FOR THE FIRST YEAR AND CLEANED WHEN SEDIMENT REACHES THE MAXIMUM STORAGE CAPACITY.

# 3.2 INSPECTION PROCEDURES

AS PER THE FOLLOWING:

- 3.2.1 THE UNIT SHOULD BE VISUALLY INSPECTED FROM THE SURFACE TO DETERMINE THE INTEGRITY OF ACCESS POINTS. LOOK FOR BROKEN HINGES OR BROKEN OR MISSING HANDLES. A QUALIFIED WELDER SHOULD REPAIR ANY BROKEN HINGES IMMEDIATELY. INSPECT BOLTS ON LID ANGLE IRON AND LOOK FOR LOOSE RED HEADS ON ANGLE IRON. REPLACE RED HEADS AS NEEDED. RE-PAINT THE LID, WITH A RUST RESISTANT PAINT AS NECESSARY
- 3.2.2 THE ACCESS SHOULD BE OPENED AND SECURED PROPERLY.
- 3.2.3 A VISUAL INSPECTION SHOULD BE MADE OF THE TRASH BASKET AT THE FRONT OF THE UNIT TO DETERMINE CAPACITY AND TYPE OF MATERIAL TRAPPED.
- 3.2.4 A VISUAL INSPECTION SHOULD BE MADE OF THE WATER SURFACE IN THE FRONT OF THE UNIT TO DETERMINE OIL SHEEN OR BLANKET.
- 3.2.5 A VISUAL INSPECTION SHOULD BE MADE OF THE OIL AND HYDROCARBON RESERVOIR TO DETERMINE AMOUNT OF OIL/WATER TRAPPED AND THE HISTORICAL HIGH-WATER LEVEL IN THE UNIT.
- 3.2.6 A VISUAL INSPECTION OF THE WATER SURFACE IN THE REAR OF THE UNIT SHOULD BE MADE AND ANY POLLUTANTS NOTED.
- 3.2.7 INSPECT THE ALUMINUM MESH IN THE TRASH BASKET. REPLACE AS NEEDED.
- 3.2.8 INSPECT THE BASKET FRAME FOR CRACKS OR DAMAGE. REPAIR AS NEEDED. A VISUAL INSPECTION SHOULD BE MADE OF THE PIPE CONNECTIONS TO THE UNIT AND ANY MATERIAL DECAY OR IMPROPER INSTALLATION NOTED. PIPES SHOULD BE CUT FLUSH WITH THE INTERIOR WALL OF THE UNIT AND PROPERLY MUDDED IN. IF UPON INSPECTION IT IS NOTED THAT THE PIPES ARE NOT CUT FLUSH, OR ARE NOT MUDDED IN, CONTACT THE CONTRACTOR AND REQUIRE THAT HE CORRECT THIS IMMEDIATELY.
- 3.2.9 INSPECT BAFFLES TO ENSURE THAT THEY ARE PROPERLY SEATED INTO THE BRACKETS. ALSO NOTE IF THERE IS ANY DAMAGE TO BAFFLES (BOWING). RESEAT BAFFLES IF NECESSARY.
- 3.2.10 INSPECT OIL RESERVOIR FOR CRACKS OR DAMAGE. CHECK THE WELDS AROUND THE OIL RESERVOIR FOR WEAR OR DAMAGE AND NOTE ANY REPAIR WORK NECESSARY. A QUALIFIED WELDER MUST PERFORM ALL REPAIR WORK TO THE WELDS ON THE OIL RESERVOIR DURING THE ROUTINE CLEANING.
- 3.2.11 INSPECT THE RISER FOR CRACKS IN THE CONCRETE WALLS. REPAIR AS REQUIRED DURING THE ROUTINE CLEANING.
- 3.2.12 A SILT GAUGE SHOULD BE USED TO DETERMINE SEDIMENT DEPTH AS SHOWN IN APPENDIX 1. CHECK THE SILT/SEDIMENT LEVEL BEHIND THE TRASH BASKET AND IN FRONT OF THE OIL RESERVOIR 3.2.13 THE ACCESS FOR CLEANING SHOULD BE EVALUATED AND DOCUMENTED. THE TRUCK CLEANING THESE
- UNITS REQUIRES A STABLE ROADWAY CAPABLE OF WITHSTANDING 15,000 POUNDS.
- 3.2.14 ANY CHANGES IN THE AREA TRIBUTARY THAT ARE EVIDENT SHOULD BE NOTED.
- 3.2.15 REPLACE THE ACCESS POINT COVERS CAREFULLY.
- 3.2.16 NOTE THE CONDITION OF THE AREA SURROUNDING THE UNIT ON THE INSPECTION REPORT. (EXAMPLE: GRASS, DIRT, ROCKS, SINK HOLES) REPORT ANY HAZARDOUS CONDITIONS TO THE APPROPRIATE SUPERVISOR
- 3.2.17 AN INSPECTION REPORT SHOULD BE COMPLETED, WITH A COPY STAYING ON SITE AND A COPY BEING SENT TO THE LOCAL JURISDICTION.

THE INSPECTION PROCEDURES FOR THE TRAFFIC UNITS ARE SIMILAR TO THOSE FOR THE NON- TRAFFIC UNITS WITH THE EXCEPTION OF THE SEDIMENT DEPTH EVALUATIONS AS SHOWN IN APPENDIX 1 AND AN INSPECTION OF THE GRATE AND FRAME AND RING AND COVER. ALSO PROPER PRECAUTIONS SHOULD BE TAKEN IN TRAFFIC SITUATIONS AS SPECIFIED IN THE SAFETY SECTION OF THIS MANUAL.

WHEN THERE HAS BEEN AN OBVIOUS GASOLINE SPILL OR OTHER FLAMMABLE/HAZARDOUS MATERIAL IN THE UNIT, IMMEDIATE NOTIFICATION SHOULD BE GIVEN TO THE OWNER AND JURISDICTIONAL AUTHORITIES. THIS MANUAL IS FOR ROUTINE CLEANING OF STORM WATER DEBRIS AND ANY UNUSUAL OCCURRENCES SHOULD BE LEFT TO PROPERLY TRAINED AND EQUIPPED INDIVIDUALS.

# 4.1 CLEANING OVERVIEW

THE CLEANING OF THE UNIT IS THE ESSENTIAL ELEMENT TO THE OPERATIONAL SUCCESS OF THE CRYSTALSTREAM DEVICE. THE POLLUTANT REMOVAL CAPACITY OF THE DEVICE WILL EVENTUALLY CAUSE THE EQUIPMENT TO FAIL WITHOUT PROPER MAINTENANCE AND ADDITIONALLY NOT ACHIEVE THE GOALS OF THE INSTALLATION. THE CLEANING CYCLE IS DEPENDANT ON A NUMBER OF FACTORS INCLUDING POLLUTANT LOAD, RAINFALL, TIME OF YEAR, BASIN CHANGES, UPSTREAM MITIGATION TACTICS AND INSTALLATION. BASED ON THE VARIETY OF FACTORS, A CLEANING SCHEDULE CAN BE CONSISTENT OR VARY WIDELY ON THE SAME DEVICE. THIS HIGHLIGHTS THE IMPORTANCE OF THE INSPECTION PROCESS IN THE OVERALL MAINTENANCE AND INTEGRITY OF THE UNIT. THE CLEANING IS GENERALLY DONE WITH A TWO-PERSON CREW AND A VACUUM PUMP SYSTEM. THE DURATION OF THE MAINTENANCE WILL DEPEND ON A NUMBER OF FACTORS BUT CAN TYPICALLY BE DONE IN ABOUT 2.5 HOURS WITH PROPERLY TRAINED INDIVIDUALS.

# 4.2 OPTION 1: CLEANING PROCEDURES - SURFACE CLEANING

IF THE CLEANING OF THE UNIT IS TO BE PREFORMED FROM THE SURFACE, THE OPERATOR SHOULD EXPECT A LONGER CLEANING TIME AND THE POTENTIAL FOR ADDITIONAL DISPOSAL CHARGES. THE FRONT CHAMBER OF THE UNIT WILL CONTAIN THE TRASH AND DEBRIS IN THE TRASH BASKET, ANY FLOATING HYDROCARBONS THAT HAVE NOT BEEN SKIMMED INTO THE OIL/HYDROCARBON RESERVOIR AND ACCUMULATED SEDIMENT ON THE BOTTOM OF THE UNIT

# CLEANING PROCEDURES ARE AS PER THE FOLLOWING:

- 4.2.1 THE UNIT SHOULD BE VISUALLY INSPECTED FROM THE SURFACE TO DETERMINE THE INTEGRITY OF THE TREAD PLATE LID, ALUMINUM HATCH OR OTHER ACCESS.
- 4.2.2 A VISUAL INSPECTION OF THE UNIT SHOULD BE DONE TO EVALUATE STRUCTURAL INTEGRITY AND DETERMINE IF ANY IMPACTED MATERIAL IS PRESENT IN THE DEVICE. IF THERE HAS BEEN A HAZARDOUS SPILL SEE SECTION 4.6

NOTE: WHEN THERE HAS BEEN AN OBVIOUS GASOLINE SPILL OR OTHER FLAMMABLE/HAZARDOUS MATERIAL IN THE UNIT, IMMEDIATE NOTIFICATION SHOULD BE GIVEN TO THE OWNER AND JURISDICTIONAL AUTHORITIES. THIS MANUAL IS FOR ROUTINE CLEANING OF STORM WATER DEBRIS AND ANY UNUSUAL OCCURRENCES SHOULD BE LEFT TO PROPERLY TRAINED AND EQUIPPED INDIVIDUALS.

- 4.2.3 THE TRASH BASKET SHOULD BE CLEANED BY EITHER USING A TRASH NETTING SYSTEM OR VACUUM TRUCK. IF CLEANING USING A NETTING SYSTEM, THIS MATERIAL CAN BE DISPOSED OF IN TRASH BAGS IN THE NORMAL MANNER.
- 4.2.4 THE SURFACE OIL/HYDROCARBON SEPARATION ZONE IN THE FRONT CHAMBER SHOULD BE REMOVED EITHER WITH SORBANTS OR WITH A VACUUM TRUCK.
- 4.2.5 THE STORMWATER CONTAINED IN THE AREA BETWEEN THE SURFACE WATER AND THE SEDIMENT ACCUMULATION CAN BE DECANTED TO MINIMIZE THE AMOUNT OF DISPOSAL REQUIRED. ANY DOWNSTREAM DISCHARGE NEEDS TO BE AFTER THE SURFACE CLEANING AND ONLY DOWN TO THE LEVEL OF THE BOTTOM OF THE OIL/HYDROCARBON RESERVOIR OR THE TOP OF THE SEDIMENT ACCUMULATION. ANY POLLUTANTS DISCHARGED DOWNSTREAM ARE THE RESPONSIBILITY OF THE CLEANING OPERATOR. 4.2.6 THE OIL/HYDROCARBON RESERVOIR NEEDS TO BE EVACUATED BY THE VACUUM EQUIPMENT
- 4.2.7 THE SEDIMENT ACCUMULATED IN THE FRONT AND REAR CHAMBER CAN BE REMOVED BY THE VACUUM EQUIPMENT. 4.2.8 THE UNIT SHOULD BE PRESSURE WASHED DOWN TO REMOVE ANY POLLUTION ATTACHED TO THE BAFFLES,
- WALLS OR HYDROCARBON RESERVOIR.
- 4.2.9 ALL PARTS SHOULD BE INSPECTED FOR WEAR AND TEAR AND DOCUMENTED.

- COPY BEING SENT TO THE LOCAL JURISDICTION. 4.3 OPTION 2: CLEANING PROCEDURES - CONFINED SPACE ENTRY
- ADDITIONAL SAFETY PROCEDURE WILL BE NECESSARY.
- FOLLOWING:
- PLATE LID.
- SPILL SEE SECTION 4.6

- BOTTOM OF THE UNIT.
- 4.3.6 THE TRASH BASKET SHOULD BE CLEANED AND DIRECTLY DISPOSED OF IN GARBAGE BAGS.
- WALLS OR HYDROCARBON RESERVOIR.
- SEDIMENT FROM THE BOTTOM OF THE UNIT.
- RETURNED TO THE UNIT. 4.3.12 ALL PARTS SHOULD BE INSPECTED FOR WEAR AND TEAR AND DOCUMENTED.
- 4.3.13 REMOVE ALL EQUIPMENT FROM THE UNIT. REPLACE THE MANHOLE COVER AND THE GRATE IN THE CONCRETE LID.
- COPY BEING SENT TO THE LOCAL JURISDICTION.

# CLEANING EQUIPMENT

THE EQUIPMENT NEEDED TO CLEAN THE CRYSTALSTREAM UNIT IS

- VACUUM TRUCK 750 GALLON
- PRESSURE WASHER
- SUBMERSIBLE PUMP
- GENERATOR
- SORBANT PADS (MYCELX™)
- 16-25 FT. LADDER GLOVES
- COCONUT FIBER MESH (ROLANKA INDUSTRIES)
- TRASH BAGS
- CRYSTALSTREAM LID HOOKS
- SEDIMENT/SILT GAUGE
- RUBBER BOOTS
- TESTING EQUIPMENT TO MEET OSHA CONFINED SPACE ENTRY REQUIREMENTS CONES
- BARRICADES
- CAUTION TAPE
- HARDHAT
- WATERPROOF SILICON CAULK ALUMINUM MESH (FOR TRASH BASKET)
- FLAT SHOVEL
- 20' ELECTRICAL CORD
- 5 GALLON BUCKET W/ROPE
- FIRST AID KIT CONTAINING EYE WASH

CALL CRYSTALSTREAM AT 1-800-748-6945 IF YOU NEED SUPPLIES OR PARTS.

DOCUMENTATION AND DISPOSAL

THE CLEANING OF THE UNIT SHOULD BE DOCUMENTED AND THE CONTENTS OF THE UNIT ESTIMATED AND RECORDED IN A LOG FOR INSPECTIONS. THIS DOCUMENTATION SHOULD MEET FEDERAL, STATE AND LOCAL GUIDELINES.

THE DISPOSAL OF THE TRASH, DEBRIS, WATER AND SEDIMENT SHOULD BE DONE AT AN APPROVED FACILITY AND THE PROPER PERMITS SHOULD BE OBTAINED TO TRANSPORT THE MATERIAL. SEDIMENT AND WATER SHOULD BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS. SEDIMENT SHOULD BE REMOVED TO A LANDFILL AND LIQUIDS TO A DECANTING FACILITY.

# HAZARDOUS WASTE PROCEDURE

THE PRESENCE OF ANY HAZARDOUS MATERIAL INSIDE THE UNIT SHOULD PROMPT AN IMMEDIATE CALL TO THE JURISDICTION AND AN APPROPRIATE HAZARDOUS RESPONSE TEAM. THIS MATERIAL IS NOT PART OF THE STANDARD CLEANING OF THE DEVICE AND SHOULD BE TREATED WITH THE PROPER CARE AFFORDED SUCH SPILLS AS PER FEDERAL, STATE AND LOCAL GUIDELINES.

# 5.1 MAINTENANCE OVERVIEW

ALL OF THE COMPONENTS IN THE UNIT SHOULD BE INSPECTED AT EVERY CLEANING TO DETERMINE WEAR OR DAMAGE. IF ANY COMPONENTS ARE DAMAGED, PLEASE CONTACT CRYSTALSTREAM TECHNOLOGIES FOR AN EVALUATION OF THE DAMAGE AND A MAINTENANCE ESTIMATE.

4.2.10 A MAINTENANCE REPORT (APPENDIX 3) SHOULD BE COMPLETED, WITH A COPY STAYING ON SITE AND A

THE CLEANING PROCEDURES ARE SIMILAR FOR CONFINED SPACE ENTRIES EXCEPT THAT THE OSHA GUIDELINE APPLY AND NEED TO BE FOLLOWED. THE CONFINED SPACE ENTRY ALLOWS THE CREW TO DO A BETTER JOB OF CLEANING THE UNIT AND ALLOWS FOR THE TIME NEEDED AND DISPOSAL COST TO BE REDUCED.

CAUTION! ANY INSPECTION DONE IN A TRAFFIC AREA MUST MEET THE DOT GUIDELINES FOR ROADWAY WORK AND

CAUTION! ALL OSHA CONFINED SPACE REQUIREMENTS SHOULD BE MET WHILE CLEANING THIS UNIT. AS PER THE

4.3.1 THE UNIT SHOULD BE VISUALLY INSPECTED FROM THE SURFACE TO DETERMINE THE INTEGRITY OF THE TREAD

4.3.2 A VISUAL INSPECTION OF THE UNIT SHOULD BE DONE TO EVALUATE STRUCTURAL INTEGRITY AND DETERMINE IF ANY IMPACTED MATERIAL IS PRESENT IN THE DEVICE. IF THERE HAS BEEN A HAZARDOUS

NOTE: WHEN THERE HAS BEEN AN OBVIOUS GASOLINE SPILL OR OTHER FLAMMABLE/HAZARDOUS MATERIAL IN THE UNIT, IMMEDIATE NOTIFICATION SHOULD BE GIVEN TO THE OWNER AND JURISDICTIONAL AUTHORITIES THIS MANUAL IS FOR ROUTINE CLEANING OF STORM WATER DEBRIS AND ANY UNUSUAL OCCURRENCES SHOULD BE LEFT TO PROPERLY TRAINED AND EQUIPPED INDIVIDUALS.

4.3.3 A LADDER SHOULD BE INSERTED ON THE FRONT SIDE OF THE UNIT BETWEEN THE BAFFLES AND A SORBANT BLANKET LAID ON THE SURFACE OF THE WATER TO COLLECT ANY FREE OIL FLOATING ON THE SURFACE. 4.3.4 IN MOST UNITS, THE TRASH BASKET AND BAFFLES CAN BE REMOVED TO ALLOW EASIER ACCESS TO THE

# 4.3.5 INSPECT THE ALUMINUM MESH IN THE TRASH BASKET. REPLACE AS NEEDED.

4.3.7 THE STORMWATER CONTAINED IN THE AREA BETWEEN THE SURFACE WATER AND THE SEDIMENT ACCUMULATION CAN BE DECANTED TO MINIMIZE THE AMOUNT OF DISPOSAL REQUIRED. ANY DOWNSTREAM DISCHARGE NEEDS TO BE AFTER THE SURFACE CLEANING AND ONLY DOWN TO THE LEVEL OF THE BOTTOM OF THE OIL/HYDROCARBON RESERVOIR OR THE TOP OF THE SEDIMENT ACCUMULATION. ANY POLLUTANTS DISCHARGED DOWNSTREAM ARE THE RESPONSIBILITY OF THE CLEANING OPERATOR

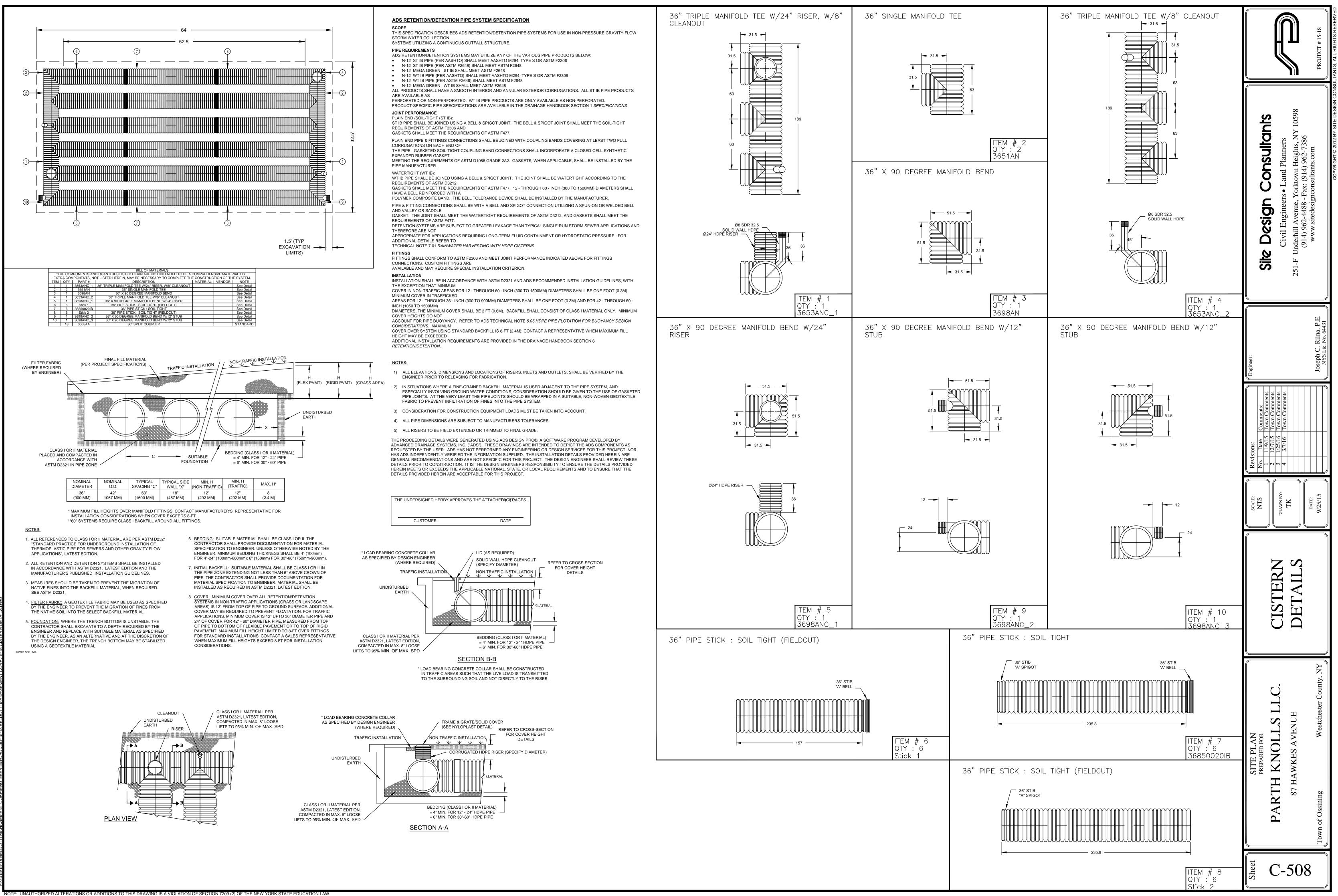
4.3.8 THE UNIT SHOULD BE PRESSURE WASHED DOWN TO REMOVE ANY POLLUTION ATTACHED TO THE BAFFLES, 4.3.9 THE LADDER CAN BE USED TO GET ON TO THE UNIT FLOOR AND REMOVE THE REST OF THE WATER AND

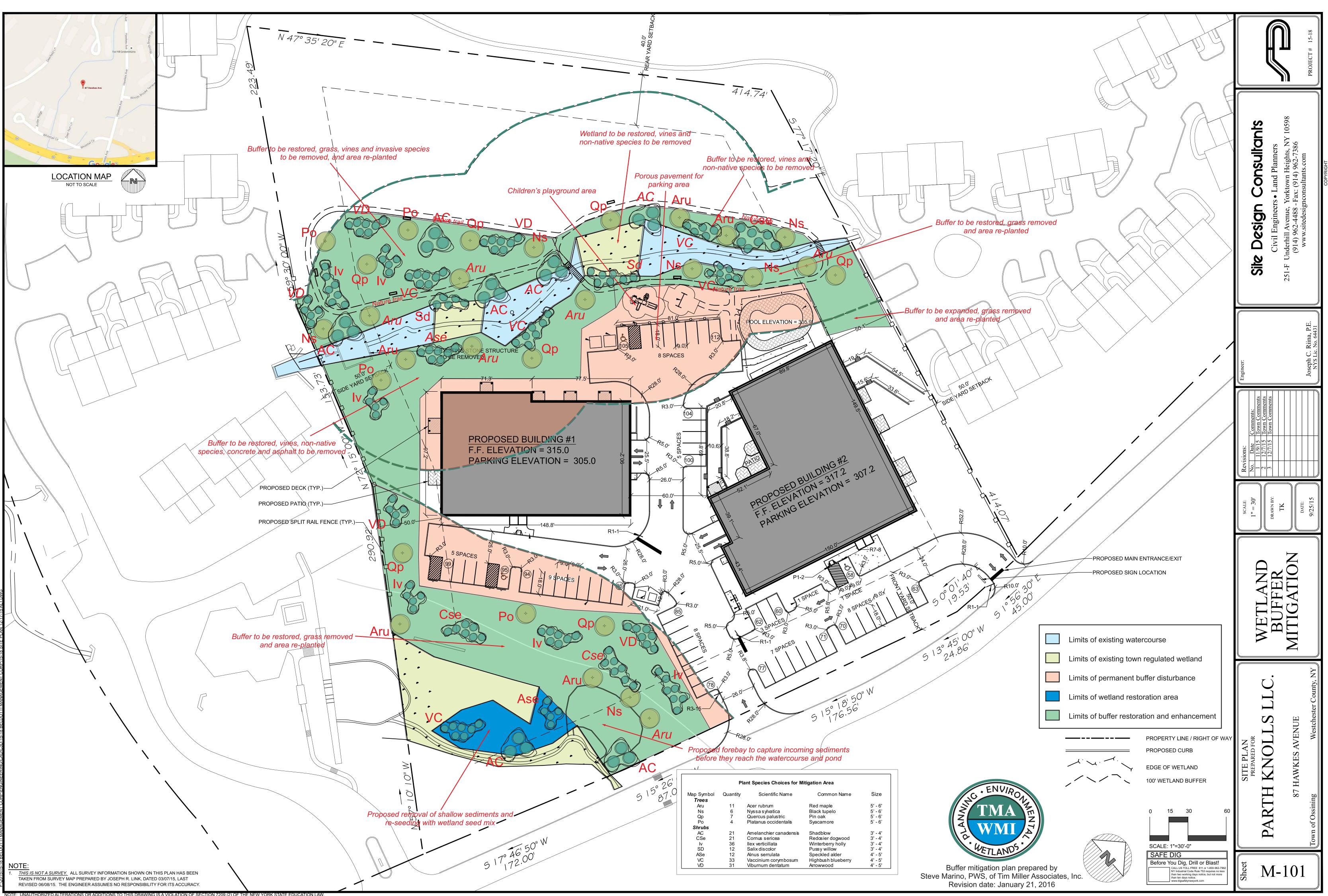
4.3.10 THE WALLS SHOULD BE WIPED DOWN IN THE FRONT WITH A SORBANT BLANKET 4.3.11 THE FRESH COCONUT FIBER MESH SHOULD BE REPLACED IN THE FRAME AND THE FRAME ASSEMBLY

4.3.14 A MAINTENANCE REPORT (APPENDIX 3) SHOULD BE COMPLETED, WITH A COPY STAYING ON SITE AND A

TRIPOD SAFETY HARNESS RECOVERY APPARATUS

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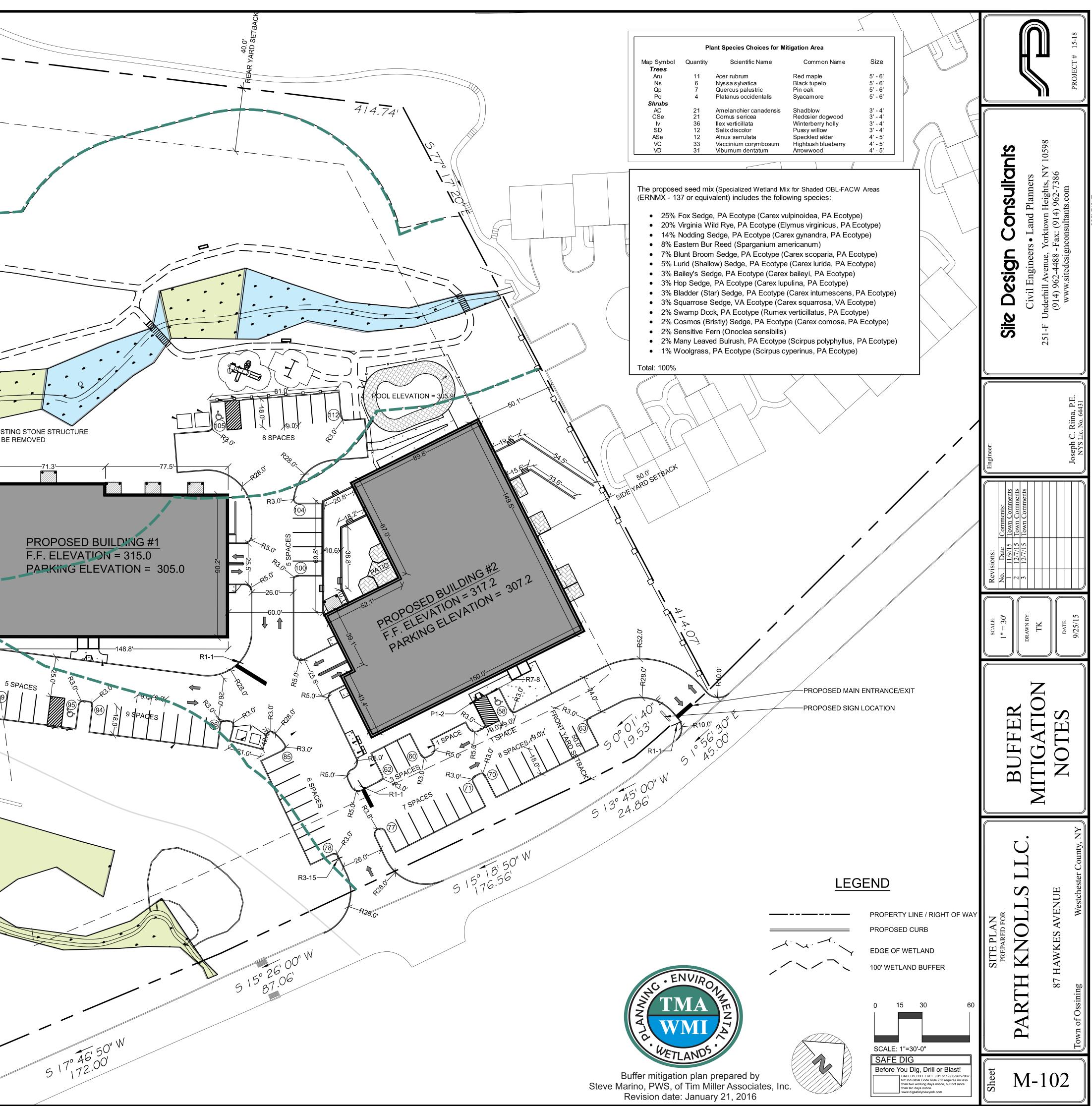


TIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAV

2		
	Wetland Buffer Mitigation Narrative and Specification Parth Knolls	
	Hawkes Avenue, Town of Ossining, NY January 21, 2016 <i>Project Description</i>	
1	The applicant proposes the development of 53 rental units in conformance with the existing zoning. Some of the activities that are necessary for this development will occur within the 100 foot regulated setback to wetlands and 50 foot setback to watercourses. No filling or other disturbance to wetlands or watercourses is proposed. Existing site wetlands are associated with two watercourses that enter the site.	
	Mitigation Proposal	
-	The applicant is proposing a three-tier approach to mitigating the encroachments into federal wetlands.	
	<b>Buffer Enhancement.</b> The existing buffer has been historically disturbed for activities associated with the former residential/office use. Existing concrete paths, non-native edges and maintained lawn areas. dominate the buffer on the east side of the western watercourse, and on the north side of watercourse/pond at the south end of the site. It is proposed to remove existing concrete and asphalt, remove non-native shrubs and other vegetation, and cease the mowing of lawns within these areas.	
	<b>Buffer Restoration.</b> A total of 28 new trees and 166 new shrubs will be planted within the buffer areas to enhance and restore the buffer to a more natural condition. The plant list includes all native species commonly found in wetland and transitional areas in the Hudson Valley. As noted above, regular mowing will cease and seed mixes suitable for buffer and transitional areas will be applied, with one annual mowing occur in the fall to occur in these areas.	
	Wetland Restoration. The small fringing wetlands associated wit the watercourses are dominated by invasive plant species, including porcelainberry, oriental bittersweet, multifloral rose and others. It is proposed to actively remove these species by hand in those areas where the plants are most dominant. Wetland seed mix especially selected for riparian corridors will then be used in these areas.	
	Along the watercourse at the southern end of the site, sediment that has accumulated over the years after passing under the Hawkes Avenue culvert will be removed by machine and used as fill elsewhere on site. The newly exposed substrate will be hayed and seeded with wetland seed mix and planted with shrubs as shown on the accompanying plans.	
	<b>Forebay Creation.</b> In order to prevent future sediment deposition in the watercourse and wetland, a new "forebay" feature will be excavated in the buffer just downstream of the Hawkes Avenue culvert, in a location that is currently maintained as lawn. This shallow depressional areas is expected to allow sediment entering the system to settle out in a location that is more easily accessed and maintained.	
	Use of Porous Pavement and Creation of Nature Trails. In some portions of the buffer that are currently maintained as lawn, future disturbance needed to create the necessary number of parking spaces is unavoidable. In these areas the parking spaces will be made up of porous pavement in order to continue the groundwater recharge and filtering function of the buffer areas.	
	Nature trails are proposed from the proposed playground and pool areas to a wooden foot bridge across the restored stream channel to provide access to the natural areas on the western side of the stream. Wooden benches will be placed along the trail for rest or observation.	
	Planting Details	EXISTI TO BE
	Plant choices for the wetland buffer were made according to existing site conditions and locally common species. All planting will proceed by hand. Materials will be brought to the site in good condition (see below) and then placed in central drop locations. The materials will then be hand-carried to their planting locations and in turn, planted by hand. Only rounded, shallow planting shovels will be used in this effort.	50.0'SETBACK
	Criteria for selecting plant material will include (1) the plant's ability to withstand the expected light and saturation conditions; (2) its demonstrated survival on this site and other nearby sites; (3) the plant must be native and non-invasive; and (4) whether the plant material is available at nurseries in the same region as the site. The location of the trees and shrubs are coordinated with the proposed Landscape Plan (Sheet L-1) and the existing tree survey.	
	Planting will be done in spring or early summer (between April 1 and July 1). Shrubs may also be planted in the late summer to early fall (September 1 to October 30). In all cases, a hole will be dug twice as deep as the root ball. The only shovels allowed are rounded, shallow spades. The hole will then be backfilled with a thin layer (two to four inches) of rich, organic topsoil, the plant placed inside, the hole backfield to the top and then gently tamped down.	
	Container-grown plant material delivered to the job site will be inspected to assure moist soil/root masses. Any dry and light weight plants will not be accepted. If not planted immediately the container will be stored out of the sun and wind and kept moist (i.e., a means of watering will be provided and watering will occur daily). When removed from the containers, the plants will be the size of the specified container. If in leaf, the plants will appear healthy with no spots, leaf damage, discoloration, insects or fungus. If not in leaf, the buds will be firm and free of damage, discoloration, insects or fungus. Containers will be a minimum of quart size for shrubs and gallon size for trees. Plants not having an abundance of well developed terminal buds on the leaders and branches will be rejected. The stems and branches of all plants will be turgid and the cambium healthy or the plants rejected. Seeding within wetland areas should not be completed when there is more than two inches of standing water, or in areas that are likely to be flooded. Seeds should be broadcast by hand or knapsack seeder using the proper seeding rate (3.5 pounds per acre), and carefully proportioning seed for the entire area. Cover with a light layer of straw mulch following seeding.	
	Monitoring and Maintenance	o. H
	At least one pre-construction meeting will occur <u>between</u> the chosen grading and/or planting contractor/subcontractor and the site environmental systems planner prior to beginning construction on site. The construction monitor will have experience in wetland construction and a Bachelor of Science degree in Natural and/or Physical Resources.	
	Monitoring and maintenance efforts for the mitigation plantings will take place over a three year period following construction. This will include bi-weekly visits for the first growing season, and then twice a year for the next two years, with additional inspections as required depending on conditions. The applicant's environmental monitor will conduct a survey of the site and site conditions will be noted and adjusted as necessary. An annual report will be provided to the Town of Ossining at the end of the growing season for each of the three years. These reports will include the following information:	
	<ol> <li>All plant species, along with their estimated relative frequency and percent cover, shall be identified.</li> <li>Vegetation cover maps, at a scale of one inch equals 30 or larger, shall be prepared for each growing season.</li> <li>Photographs showing all representative areas of the mitigation site shall be taken at least once each year during the period between 1 June and 15 August.</li> </ol>	
	Plantings will meet or exceed and 85 percent survival rate by the end of the second growing season. If this goal is not met, the site will be re-evaluated, and re-grading and/or replanting will be completed as necessary. Invasive species (i.e., oriental bittersweet, multifloral rose, etc.) will not constitute more than 10 percent of the vegetative community. If this goal is exceeded, measures will be taken to eradicate the invasive species.	
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NOTE: 1. <u>THIS IS NOT A SURVEY</u> ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY JOSEPH R. LINK, DATED 03/07/15, LAST REVISED 06/08/15. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

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



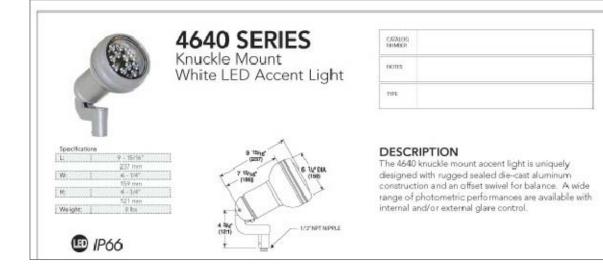


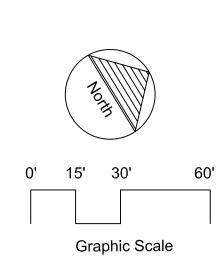
# Notes:

I. All base data by others. No representation or warranty is express or implied as to accuracy of same.

2. This Landscape Plan is for illustration of plant material purposes only. Please refer to Engineer or Surveyor drawings for all other site plan and site features information. 3. All environmental concerns subject to local, state and/ or federal jurisdiction must be reviewed and approved by appropriate agencies.

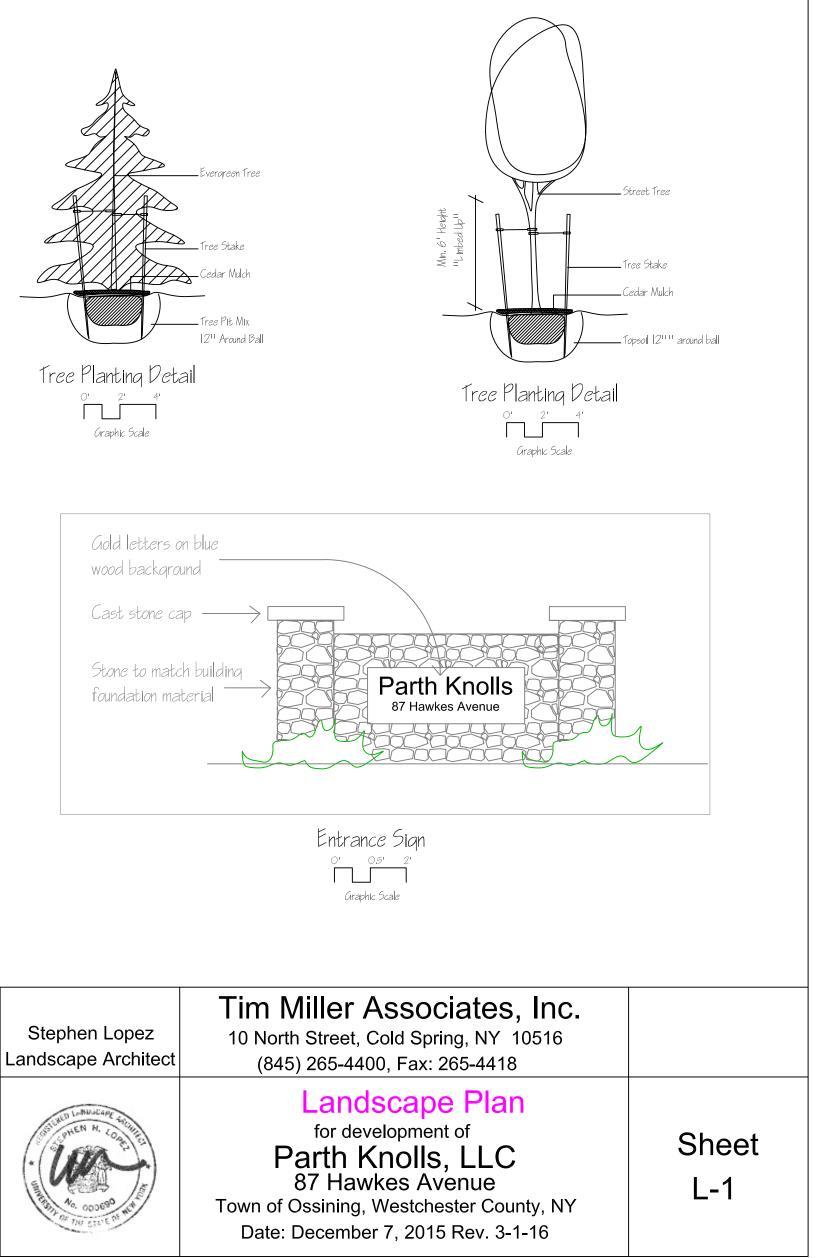
4. Developer/builder is responsible for maintaining a safe site during construction and until future owners take possession of the site, or portions thereof, at which time the new owners will take full responsibility for maintaining a safe site through proper maintenance, modification and/ or replacement of plant material as necessary.













АЬЬ.	Botanical Name	<u>Common Name</u>	<u>Size</u>	Quan.
Decid	uous Irees			
AC	Aesculus carnea	Red Horsechestnut	2-2.5" cal., 14-16' ht.	4
AS	Acer saccharum	Sugar Maple	2-2.5" cal., 14-16' ht.	5
15	Liquidambar styraciflua	Sweetqum	2-2.5" cal., 14-16' ht.	2
M50	Maqnolia soulangiana	Saucer Magnolia	2-2.5" cal., 14-16' ht.	
PA	Platanus acerifolia	London Planetree	2-2.5" cal., 14-16' ht.	2
QR	Quercus rubra	Red Oak	2-2.5" cal., 14-16' ht.	8
Evera	reen Trees			
10	llex opaca	American Holly	8-10' ht.	1
PG	Picea glauca	White Spruce	8-10' ht.	6
P5	Pinus strobus	White Pine	10-12' ht.	8
1P	Thuja plicata	Giant Arborvitae	8-10' ht.	9
Minor	Deciduous Trees			
Cfa	Cornus florida alba	White Dogwood	7-8' ht.	4
CFr	Cornus florida rubra	Pink Dogwood	7-8' ht.	2
MS	Maqnolia stellata	Star Magnolia	7-8' ht.	2
0A	Oxydendron arboretum	Sourwood	8-10' ht.	4
PT	Prunus thundercloud	Thundercloud Plum	7-8' ht.	5
PY	Prunus y <i>edoe</i> nsis	Yoshini Cherry	7-8' ht.	5
Hedge	2			
IG .	llex glabra	Inkberry	2,5-3' ht.	42
Notes				
I. All pla	ants to be healthy, full and typical of the	e species, and shall meet the	American Standards for Nursery	
Stock, la	atest edition. Mulch plant beds and the	base of woody plants with 1.5	5-2" shredded cedar bark.	
All plant	ts shall be planted in recognized spring	and fall planting periods unles	ss specific approval otherwise is c	iven
by the p	project Landscape Architect.			
2. All a	reas not covered with impervious surface	s to be planted with lawn gra	ass in the following ratio by specie	351
50% f	erennial Rye, 25% Bluegrass and 25?	% Creeping Fescue, 95% co	overage to be guaranteed.	
3. lf qui	antities indicated on the plant list differ	from those on the plan, the p	olan quantities shall be used.	
4. All p	lants to be warranteed by the contracto	or to be healthy and in good p	physical condition for one year or $\cdot$	two
full grow	ing seasons after planting. Contractor s	shall maintain the site in a saf	e condition at all times, and shall	
	e site of debris on completion of work. F			
5. Soil t	for all lawn areas to be a minimum of $6^{\prime}$	' depth of loamy topsoil appro	oved by the project Landscape Ar	chitect.
For shri	bs and tree pits topsoil to be used in b	ackfilling to the extents shown	1 on the details.	