
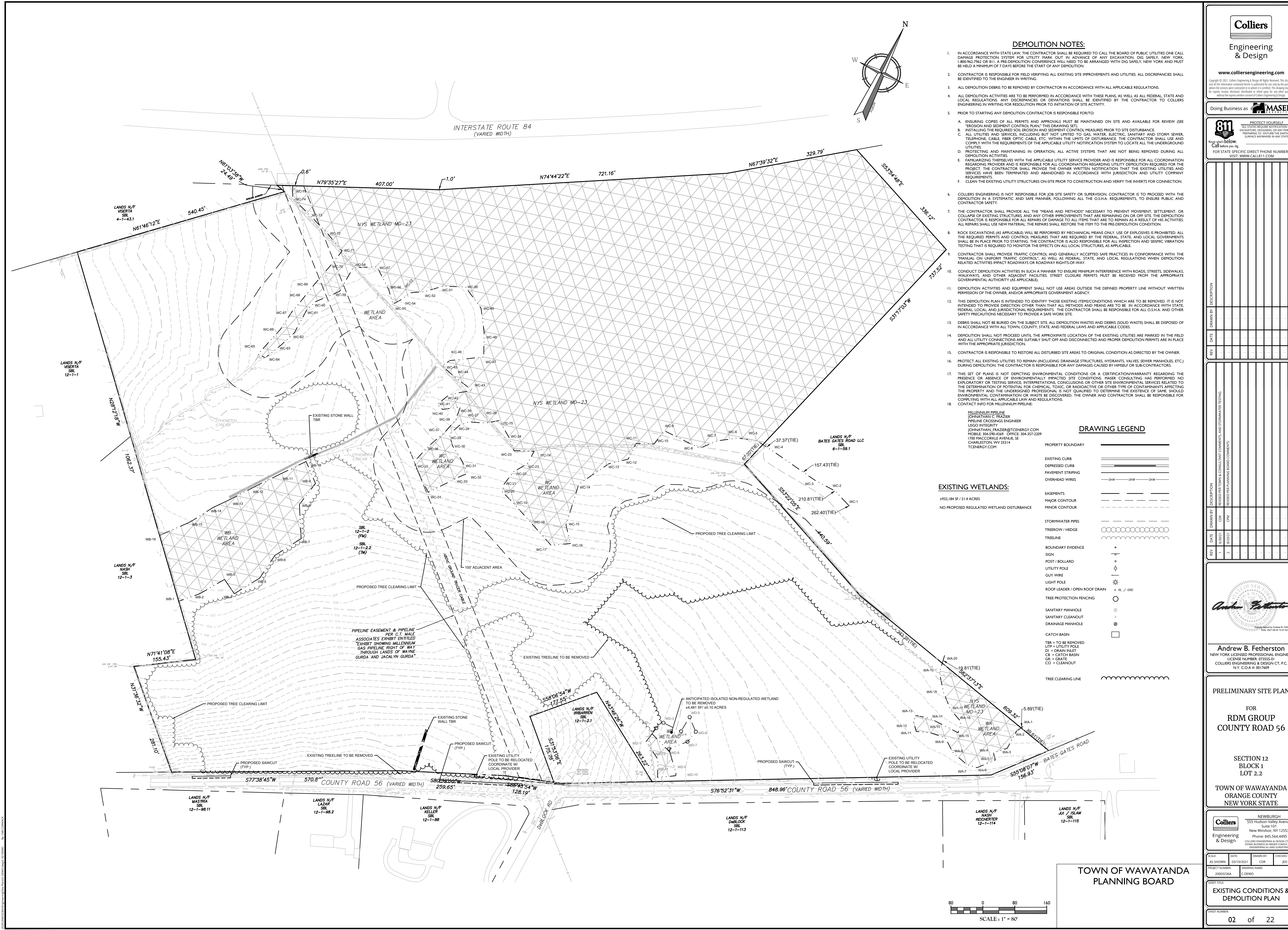


SOURCE: NEW YORK STATE CLEARING HOUSE

THESE GENERAL NOTES SHALL APPLY TO ALL SHEETS IN THIS SET

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		CHECKED BY:	
SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	03/10/2021	CDR	JED
PROJECT NUMBER:		DRAWING NAME:	
20003236A		C-CVER	
SHEET TITLE:			
<h1>COVER SHEET</h1>			
SHEET NUMBER:			
<div style="display: flex; justify-content: space-around; align-items: center;"> 01 of 22 </div>			

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



DEMOLITION NOTES:

- IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM FOR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION. DIG SAFELY, NEW YORK, 1-800-962-7962 OR 811. A PRE-DEMOLITION CONFERENCE WILL NEED TO BE ARRANGED WITH DIG SAFELY, NEW YORK AND MUST BE HELD A MINIMUM OF 7 DAYS BEFORE THE START OF ANY DEMOLITION.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
- ALL DEMOLITION DEBRIS TO BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN ACCORDANCE WITH THESE PLANS, AS WELL AS ALL FEDERAL, STATE AND LOCAL REGULATIONS. ANY DISCREPANCIES OR DEVIATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR TO COLLIER'S ENGINEERING IN WRITING FOR RESOLUTION PRIOR TO INITIATION OF SITE ACTIVITY.
- PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR:
 - ENSURING COPIES OF ALL PERMITS AND APPROVALS MUST BE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW (SEE "EROSION AND SEDIMENT CONTROL PLAN", THIS DRAWING SET).
 - INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
 - ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC, CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.
 - PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
 - FAMILIARIZING THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
 - CLEAN THE EXISTING UTILITY STRUCTURES ON-SITE PRIOR TO CONSTRUCTION AND VERIFY THE INVERTS FOR CONNECTION.
- COLLIER'S ENGINEERING IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE O.S.H.A. REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
- THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES. ALL REPAIRS SHALL USE NEW MATERIAL. THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION CONDITION.
- ROCK EXCAVATIONS (AS APPLICABLE) WILL BE PERFORMED BY MECHANICAL MEANS ONLY. USE OF EXPLOSIVES IS PROHIBITED. ALL THE REQUIRED PERMITS AND CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES, AS APPLICABLE.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH: THE "MANUAL ON UNIFORM TRAFFIC CONTROL", AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS-OF-WAY.
- CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY (AS APPLICABLE).
- DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINE WITHOUT WRITTEN PERMISSION OF THE OWNER, AND/OR APPROPRIATE GOVERNMENT AGENCY.
- THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL O.S.H.A. AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
- DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.
- DEMOLITION SHALL NOT PROCEED UNTIL THE APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE MARKED IN THE FIELD AND ALL UTILITY CONNECTIONS ARE SATISFIEDLY SHUT OFF AND DISCONNECTED AND PROPER DEMOLITION PERMITS ARE IN PLACE WITH THE APPROPRIATE JURISDICTION.
- CONTRACTOR IS RESPONSIBLE TO RESTORE ALL DISTURBED SITE AREAS TO ORIGINAL CONDITION AS DIRECTED BY THE OWNER.
- PROTECT ALL EXISTING UTILITIES TO REMAIN (INCLUDING DRAINAGE STRUCTURES, HYDRANTS, VALVES, SEWER MANHOLES, ETC.) DURING DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIMSELF OR SUB-CONTRACTORS.
- THIS SET OF PLANS IS NOT DEPICTING ENVIRONMENTAL CONDITIONS OR A CERTIFICATION/WARRANTY REGARDING THE PRESENCE OR ABSENCE OF ENVIRONMENTALLY IMPACTED SITE CONDITIONS. MASER CONSULTING HAS PERFORMED NO EXPLORATORY OR TESTING SERVICE, INTERPRETATIONS, CONCLUSIONS OR OTHER SITE ENVIRONMENTAL SERVICES RELATED TO THE DETERMINATION OF POTENTIAL FOR CHEMICAL, TOXIC, OR RADIOACTIVE OR OTHER TYPE OF CONTAMINANTS AFFECTING THE PROPERTY AND THE UNDERSIGNED PROFESSIONAL IS NOT QUALIFIED TO DETERMINE THE EXISTENCE OF SAME. SHOULD ENVIRONMENTAL CONTAMINATION OR WASTE BE DISCOVERED, THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LAW AND REGULATIONS.
- CONTACT INFO FOR MILLENNIUM PIPELINE:
MILLENNIUM PIPELINE
JOHNATHAN C. FRAZIER
PIPELINE CROSSING ENGINEER
USGO INTEGRITY
JOHNATHAN.FRAZIER@TCENERGY.COM
PHONE: 804-596-2288 OFFICE: 304-357-2299
1700 MACCORMICK AVENUE SE
CHARLOTTE, WV 25314
TCENERGY.COM

DRAWING LEGEND

- PROPERTY BOUNDARY
- EXISTING CURB
- DEPRESSED CURB
- PAVEMENT SURFACING
- OVERHEAD WIRES
- EASEMENTS
- MAJOR CONTOUR
- MINOR CONTOUR
- STORMWATER PIPES
- TERRACE / HEDGE
- TREELINE
- BOUNDARY EVIDENCE
- SIGN
- POST / BOLLARD
- UTILITY POLE
- GUY WIRE
- LIGHT POLE
- ROOF LEADER / OPEN ROOF DRAIN
- TREE PROTECTION FENCING
- SANITARY MANHOLE
- SANITARY CLEANOUT
- DRAINAGE MANHOLE
- CATCH BASIN
- TBR = TO BE REMOVED
- UTP = UTILITY POLE
- DI = DRAIN INLET
- CB = CATCH BASIN
- GR = GRATE
- CO = CLEANOUT
- TREE CLEARING LINE

EXISTING WETLANDS:

±932.184 SF / 21.4 ACRES
NO PROPOSED REGULATED WETLAND DISTURBANCE

TOWN OF WAWAYANDA
PLANNING BOARD



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REV	DATE	DESCRIPTION
1	03/10/2021	REVISED PER TOWN & CONSULTANT COMMENTS AND STORMWATER TREATMENT
2	03/20/21	REVISED PER PLANNING BOARD COMMENTS

Andrew B. Fetherston
NEW YORK LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 073553-01
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.Y. C.O.A.#: 9017609

PRELIMINARY SITE PLAN
FOR
RDM GROUP
COUNTY ROAD 56

SECTION 12
BLOCK 1
LOT 2.2

TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

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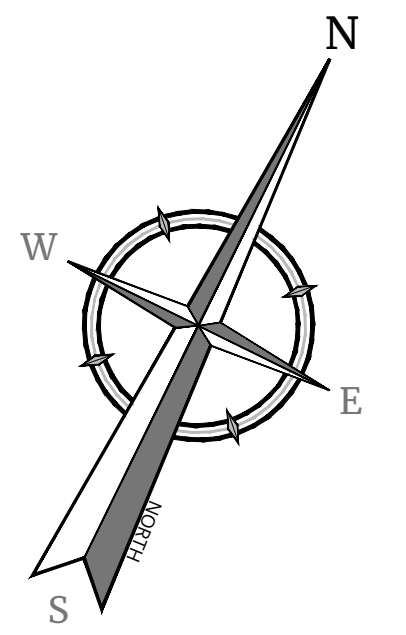
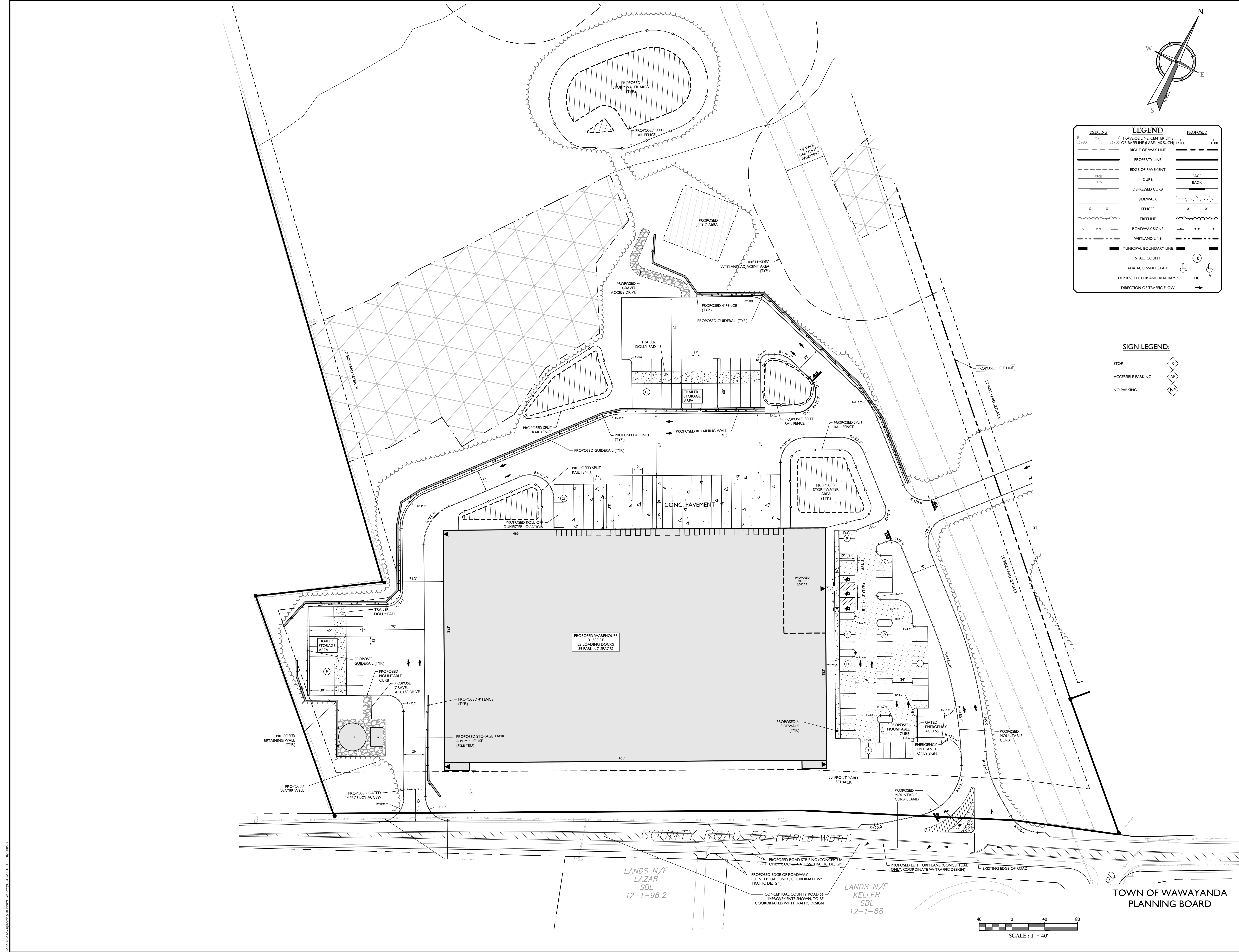
SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	03/10/2021	CDR	JED

PROJECT NUMBER:	DRAWING NAME:
20003236A	C-DEM0

SHEET TITLE:
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NUMBER:
02 of 22

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



EXISTING	LEGEND	PROPOSED
12+00	TRAVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH) 12+00	13+00
---	RIGHT OF WAY LINE	---
---	PROPERTY LINE	---
---	EDGE OF PAVEMENT	---
---	CURB	---
---	DEPRESSED CURB	---
---	SIDEWALK	---
---	FENCES	---
---	TREELINE	---
---	ROADWAY SIGNS	---
---	WETLAND LINE	---
---	MUNICIPAL BOUNDARY LINE	---
---	STALL COUNT	---
---	ADA ACCESSIBLE STALL	---
---	DEPRESSED CURB AND ADA RAMP	---
---	DIRECTION OF TRAFFIC FLOW	---

SIGN LEGEND:

STOP	S
ACCESSIBLE PARKING	AP
NO PARKING	NP

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REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
1	8/10/21	REVISED PRE-TOWN & CONSULTANT COMMENTS, AND STORMWATER TREATMENT	CDR	8/10/21	REVISED PRE-TOWN & CONSULTANT COMMENTS
2	8/10/21	REVISED PRE-TOWN & CONSULTANT COMMENTS	CDR	8/10/21	REVISED PRE-TOWN & CONSULTANT COMMENTS

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N.Y. C.O.A.#: 9017699

PRELIMINARY SITE PLAN

FOR

RDM GROUP

COUNTY ROAD 56

SECTION 12

BLOCK 1

LOT 2.2

TOWN OF WAWAYANDA

ORANGE COUNTY

NEW YORK STATE

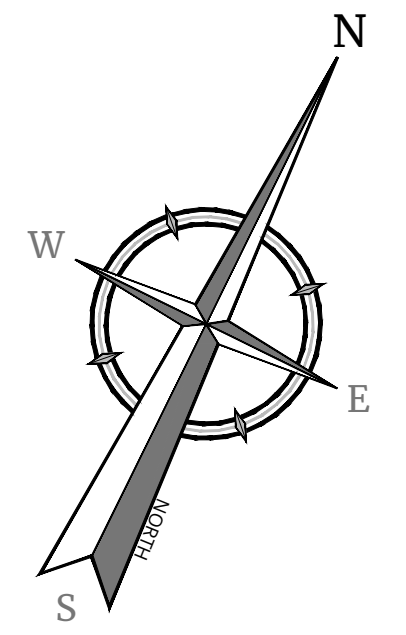
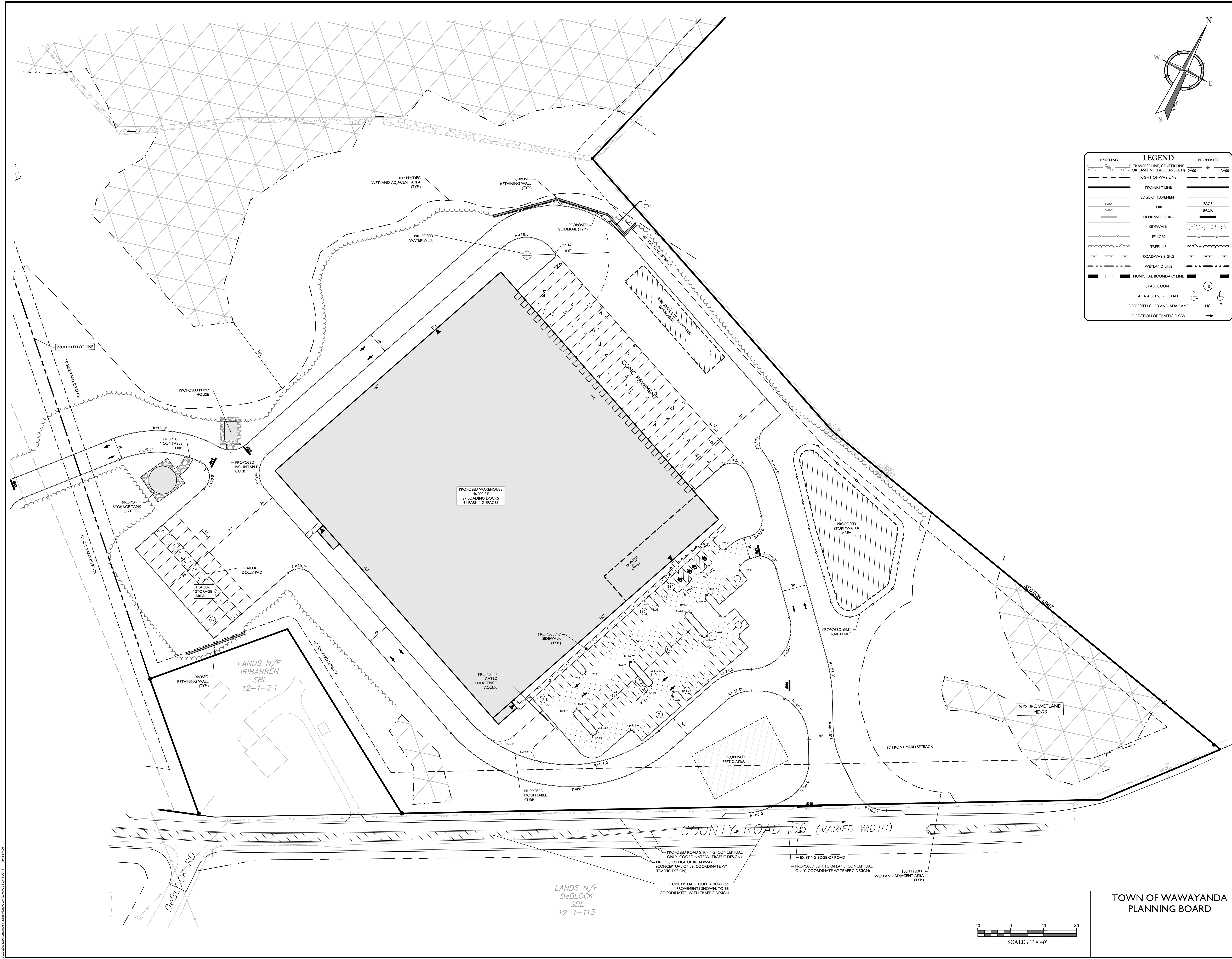
555 Hudson Valley Avenue
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COLLIERS ENGINEERING & DESIGN CT, P.C.
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SCALE	DATE	DRAWN BY	CHECKED BY
AS SHOWN	03/10/2021	CDR	JED

PROJECT NUMBER	DRAWING NAME
20003236A	C-LAY1

SHEET TITLE
DIMENSION PLAN - LOT 1

SHEET NUMBER
04 of 22



LEGEND	
EXISTING	PROPOSED
12+00	13+00
TRAVELER LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)	12+00
13+00	13+00
RIGHT OF WAY LINE	RIGHT OF WAY LINE
PROPERTY LINE	PROPERTY LINE
EDGE OF PAVEMENT	EDGE OF PAVEMENT
CURB	CURB
DEPRESSED CURB	DEPRESSED CURB
SIDEWALK	SIDEWALK
FENCES	FENCES
TREELINE	TREELINE
ROADWAY SIGNS	ROADWAY SIGNS
WETLAND LINE	WETLAND LINE
MUNICIPAL BOUNDARY LINE	MUNICIPAL BOUNDARY LINE
STALL COUNT	STALL COUNT
ADA ACCESSIBLE STALL	ADA ACCESSIBLE STALL
DEPRESSED CURB AND ADA RAMP	DEPRESSED CURB AND ADA RAMP
DIRECTION OF TRAFFIC FLOW	DIRECTION OF TRAFFIC FLOW

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REV	DATE	DESCRIPTION	BY	CHK	APP
1	8/8/2021	REVISED PRE-TOWN & CONSULTANT COMMENTS, AND STORMWATER TREATMENT			
2	8/8/2021	REVISED PER PLANNING BOARD COMMENTS			

Andrew B. Fetherston

NEW YORK LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 073553-01
COLLIERS ENGINEERING & DESIGN, P.C.
N.Y. C.O.A.#: 9017699

PRELIMINARY SITE PLAN
FOR
RDM GROUP
COUNTY ROAD 56
SECTION 12
BLOCK 1
LOT 2.2
TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

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ENGINEERING & LAND SURVEYING

SCALE: AS SHOWN
DATE: 03/10/2021
PROJECT NUMBER: 20003236A
DRAWING NAME: C-LAY1
DRAWN BY: CDR
CHECKED BY: JED
SHEET TITLE: DIMENSION PLAN - LOT 2
SHEET NUMBER: 05 of 22

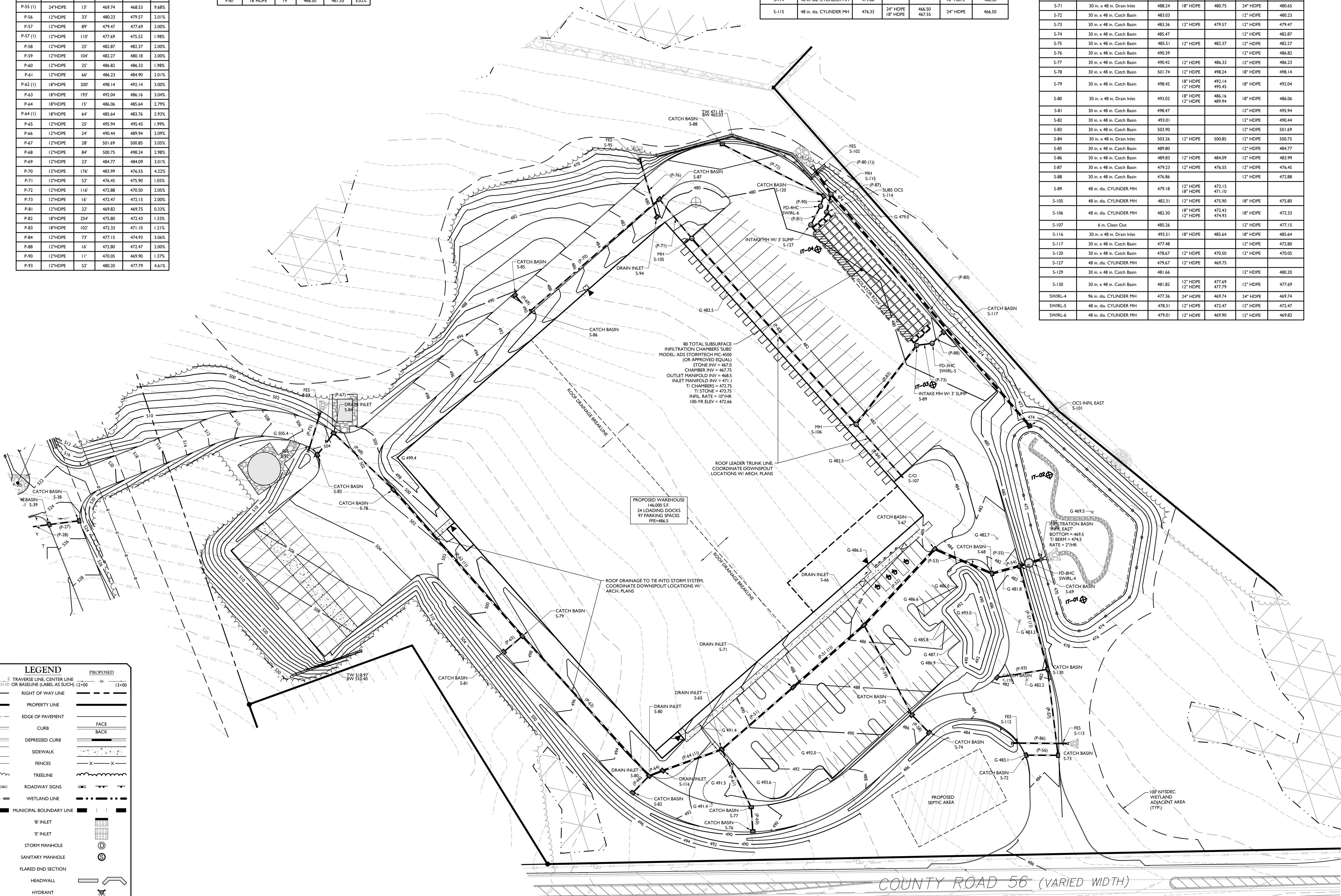
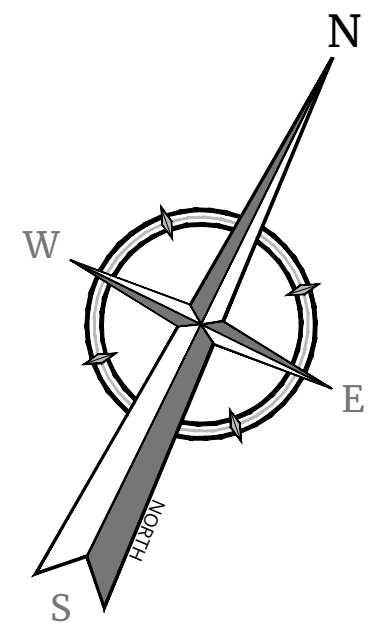
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

Pipe I.D.	Description	Length	Invert Up	Invert Dn	Slope
P-51	18"HDPE	97'	483.66	480.75	3.00%
P-51 (1)	24"HDPE	97'	480.65	477.75	3.01%
P-52	24"HDPE	106'	477.65	474.47	3.00%
P-53	24"HDPE	64'	474.37	472.46	3.00%
P-54	24"HDPE	29'	472.36	471.49	3.01%
P-55	24"HDPE	11'	470.76	469.74	9.68%
P-55 (1)	24"HDPE	13'	469.74	468.53	9.68%
P-56	12"HDPE	33'	480.23	479.57	2.01%
P-57	12"HDPE	89'	479.47	477.69	2.00%
P-57 (1)	12"HDPE	110'	477.69	475.52	1.98%
P-58	12"HDPE	25'	482.87	482.37	2.00%
P-59	12"HDPE	104'	482.27	480.18	2.00%
P-60	12"HDPE	25'	486.82	486.33	1.98%
P-61	12"HDPE	66'	486.23	484.90	2.01%
P-62 (1)	18"HDPE	200'	498.14	492.14	3.00%
P-63	18"HDPE	193'	492.04	486.16	3.04%
P-64	18"HDPE	15'	486.06	485.64	2.79%
P-64 (1)	18"HDPE	64'	485.64	483.76	2.93%
P-65	12"HDPE	25'	495.94	495.45	1.99%
P-66	12"HDPE	24'	490.44	489.94	2.09%
P-67	12"HDPE	28'	501.69	500.85	3.05%
P-68	12"HDPE	84'	500.75	498.24	2.98%
P-69	12"HDPE	23'	484.77	484.09	3.01%
P-70	12"HDPE	176'	483.99	476.55	4.22%
P-71	12"HDPE	52'	476.45	475.90	1.03%
P-72	12"HDPE	116'	472.88	470.50	2.05%
P-73	12"HDPE	16'	472.47	472.15	2.00%
P-81	12"HDPE	22'	469.82	469.75	0.33%
P-82	18"HDPE	254'	475.80	472.43	1.33%
P-83	18"HDPE	102'	472.33	471.10	1.21%
P-84	12"HDPE	73'	477.15	474.93	3.06%
P-88	12"HDPE	16'	472.80	472.47	2.00%
P-90	12"HDPE	11'	470.05	469.90	1.37%
P-93	12"HDPE	52'	480.20	477.79	4.61%

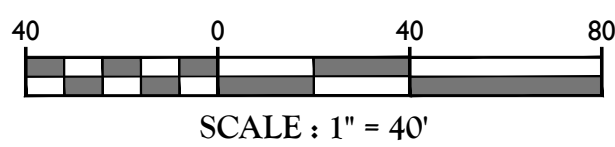
Pipe I.D.	Description	Length	Invert Up	Invert Dn	Slope
P-75	12"HDPE	31'	502.00	500.00	6.33%
P-76	12"HDPE	57'	472.40	466.43	10.45%
P-80	24"HDPE	312'	471.50	466.50	1.60%
P-80 (1)	24"HDPE	28'	466.50	465.69	2.89%
P-86	12"RCP	46'	482.00	481.50	1.08%
P-87	18"HDPE	19'	468.50	467.55	5.02%

Structure I.D.	Description	Rim/Grate	Pipes (In)	Inverts (In)	Pipes (Out)	Inverts (Out)
S-92	12 inch Flared End Section	503.10				502.00
S-93	12 inch Flared End Section	501.10	12" HDPE	500.00	12" HDPE	502.00
S-94	30 in. x 48 in. Drain Inlet	480.23			12" HDPE	472.40
S-95	12 inch Flared End Section	467.52	12" HDPE	466.43		
S-101	48 in. x 48 in. OCS	474.16			24" HDPE	471.50
S-102	24 inch Flared End Section	467.84	24" HDPE	465.69		
S-112	12 inch Flared End Section	483.17			12" RCP	482.00
S-113	12 inch Flared End Section	482.60	12" RCP	481.50		
S-114	48 in. dia. CYLINDER MH	479.08			18" HDPE	468.50
S-115	48 in. dia. CYLINDER MH	476.33	24" HDPE 18" HDPE	466.50 467.55	24" HDPE	466.50

Structure I.D.	Description	Rim/Grate	Pipes (In)	Inverts (In)	Pipes (Out)	Inverts (Out)
Outfall - 1	60 in. x 18 in. x 60 in. CONC. HW	470.68	24" HDPE	468.53		
S-65	30 in. x 48 in. Drain Inlet	491.10	18" HDPE 12" HDPE	483.76 484.90	18" HDPE	483.66
S-66	30 in. x 48 in. Drain Inlet	485.43	24" HDPE	480.18	24" HDPE	477.65
S-67	30 in. x 48 in. Catch Basin	484.73	24" HDPE	477.75	24" HDPE	474.37
S-68	30 in. x 48 in. Catch Basin	481.56	24" HDPE	472.46	24" HDPE	472.36
S-69	30 in. x 48 in. Catch Basin	481.56	24" HDPE 12" HDPE	471.49 475.52	24" HDPE	470.76
S-70	24 inch Flared End Section	470.68				
S-71	30 in. x 48 in. Drain Inlet	488.24	18" HDPE	480.75	24" HDPE	480.65
S-72	30 in. x 48 in. Catch Basin	483.03			12" HDPE	480.23
S-73	30 in. x 48 in. Catch Basin	483.36	12" HDPE	479.57	12" HDPE	479.47
S-74	30 in. x 48 in. Catch Basin	485.47			12" HDPE	482.87
S-75	30 in. x 48 in. Catch Basin	485.51	12" HDPE	482.37	12" HDPE	482.27
S-76	30 in. x 48 in. Catch Basin	490.39			12" HDPE	486.82
S-77	30 in. x 48 in. Catch Basin	490.42	12" HDPE	486.33	12" HDPE	486.23
S-78	30 in. x 48 in. Catch Basin	501.74	12" HDPE	498.24	18" HDPE	498.14
S-79	30 in. x 48 in. Catch Basin	498.45	18" HDPE 12" HDPE	492.14 495.45	18" HDPE	492.04
S-80	30 in. x 48 in. Drain Inlet	493.02	18" HDPE 12" HDPE	486.16 489.94	18" HDPE	486.06
S-81	30 in. x 48 in. Catch Basin	498.47			12" HDPE	495.94
S-82	30 in. x 48 in. Catch Basin	493.01			12" HDPE	490.44
S-83	30 in. x 48 in. Catch Basin	503.90			12" HDPE	501.69
S-84	30 in. x 48 in. Drain Inlet	503.26	12" HDPE	500.85	12" HDPE	500.75
S-85	30 in. x 48 in. Catch Basin	489.80			12" HDPE	484.77
S-86	30 in. x 48 in. Catch Basin	489.83	12" HDPE	484.09	12" HDPE	483.99
S-87	30 in. x 48 in. Catch Basin	479.23	12" HDPE	476.55	12" HDPE	476.45
S-88	30 in. x 48 in. Catch Basin	476.86			12" HDPE	472.88
S-89	48 in. dia. CYLINDER MH	479.18	12" HDPE 18" HDPE	472.15 471.10		
S-105	48 in. dia. CYLINDER MH	482.31	12" HDPE	475.90	18" HDPE	475.80
S-106	48 in. dia. CYLINDER MH	482.30	18" HDPE 12" HDPE	472.43 474.93	18" HDPE	472.33
S-107	6 in. Clean Out	485.26			12" HDPE	477.15
S-116	30 in. x 48 in. Drain Inlet	493.51	18" HDPE	485.64	18" HDPE	485.64
S-117	30 in. x 48 in. Catch Basin	477.48			12" HDPE	472.80
S-120	30 in. x 48 in. Catch Basin	476.67	12" HDPE	470.50	12" HDPE	470.05
S-127	48 in. dia. CYLINDER MH	479.67	12" HDPE	469.75		
S-129	30 in. x 48 in. Catch Basin	481.66			12" HDPE	480.20
S-130	30 in. x 48 in. Catch Basin	481.82	12" HDPE 12" HDPE	477.69 477.79	12" HDPE	477.69
SWIRL-4	96 in. dia. CYLINDER MH	477.36	24" HDPE	469.74		
SWIRL-5	48 in. dia. CYLINDER MH	478.31	12" HDPE	472.47	12" HDPE	472.47
SWIRL-6	48 in. dia. CYLINDER MH	479.01	12" HDPE	469.90	12" HDPE	469.82



EXISTING	PROPOSED
1/4"=100'	1/4"=100'
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TOWN OF WAWAYANDA
PLANNING BOARD

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REV	DATE	DESCRIPTION
1	8/10/21	REVISED PER TOWN & CONSULTANT COMMENTS AND STORMWATER TRENDS
2	8/10/21	REVISED PER PLANNING BOARD COMMENTS

Andrew B. Fetherston
NEW YORK LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 073553-01
MASER CONSULTING CONNECTICUT, P.C.
N.Y. C.O.A.#: 0008017

PRELIMINARY SITE PLAN
FOR
RDM GROUP
COUNTY ROAD 56
SECTION 12
BLOCK 1
LOT 2.2
TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

555 Hudson Valley Avenue
Suite 101
New Windsor, NY 12553
Phone: 845.564.4495
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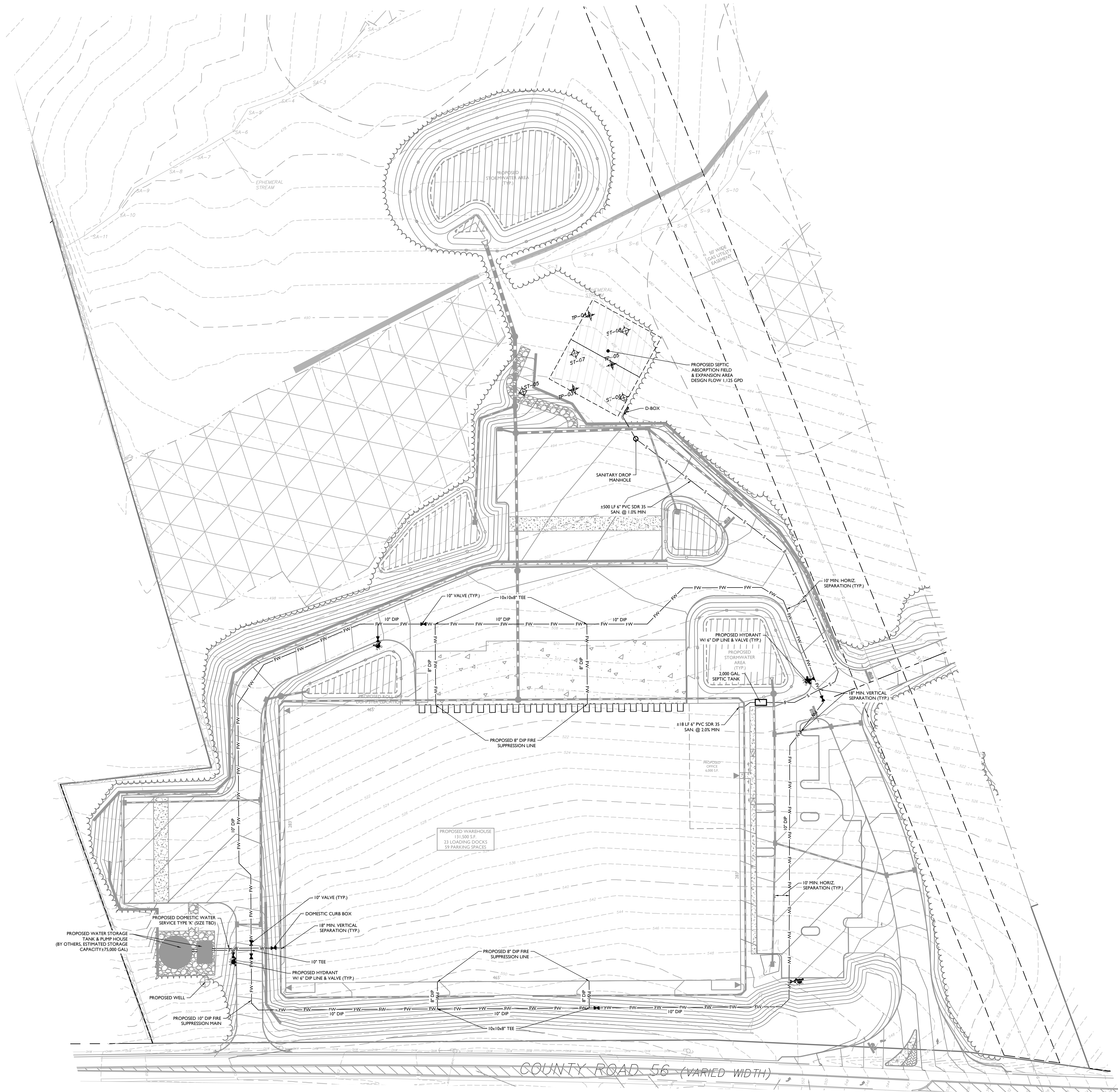
SCALE	DATE	DRAWN BY	CHECKED BY
AS SHOWN	03/10/2021	CDR	JED

PROJECT NUMBER	DRAWING NAME
20003236A	C-GRAD

SHEET TITLE:
GRADING AND DRAINAGE
PLAN - WEST

SHEET NUMBER:
07 of 22

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



LEGEND

EXISTING	PROPOSED
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SCALE: 1" = 40'

TOWN OF WAWAYANDA
PLANNING BOARD

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1	03/10/2021	ISSUED FOR TOWN & CONSULTANT COMMENTS, AND STORMWATER TESTS
2	03/22/21	ISSUED FOR PLANNING BOARD COMMENTS

REV	DATE	DESCRIPTION
1	03/10/2021	ISSUED FOR TOWN & CONSULTANT COMMENTS, AND STORMWATER TESTS
2	03/22/21	ISSUED FOR PLANNING BOARD COMMENTS

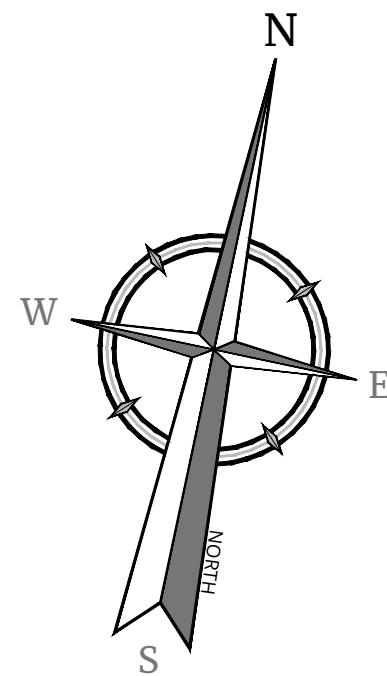
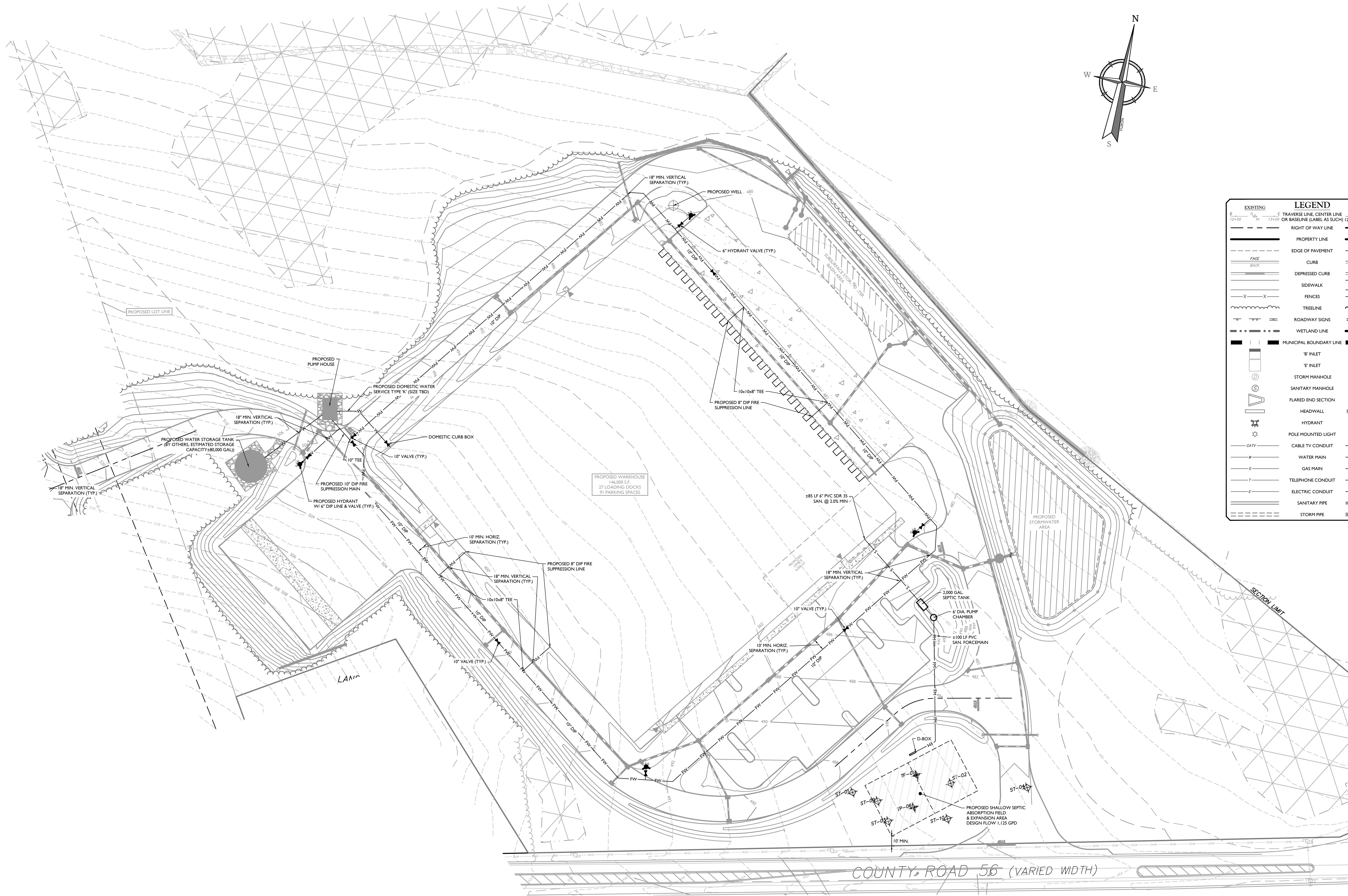
Andrew B. Fetherston
NEW YORK LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 073553-01
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.Y. C.O.A.#: 9017699

PRELIMINARY SITE PLAN
FOR
RDM GROUP
COUNTY ROAD 56
SECTION 12
BLOCK 1
LOT 2.2
TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

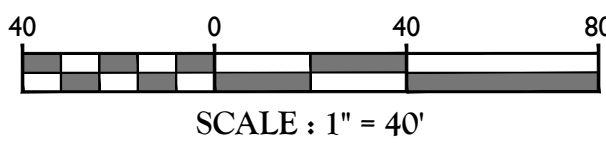
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ENGINEERING & LAND SURVEYING

SCALE: AS SHOWN
DATE: 03/10/2021
PROJECT NUMBER: 20003236A
DRAWING NAME: C-UTIL
DRAWN BY: CDR
CHECKED BY: JED
SHEET TITLE: UTILITY PLAN - LOT 1
SHEET NUMBER: 08 of 22

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



EXISTING		LEGEND		PROPOSED	
12+00	12+00	5' TRAVERSE LINE, CENTER LINE		12+00	13+00
12+00	12+00	OR BASELINE (LABEL AS SUCH)		12+00	13+00
RIGHT OF WAY LINE					
PROPERTY LINE					
EDGE OF PAVEMENT					
CURB					
DEPRESSED CURB					
SIDEWALK					
FENCES					
TREELINE					
ROADWAY SIGNS					
WETLAND LINE					
MUNICIPAL BOUNDARY LINE					
8\"/>					
STORM MANHOLE					
SANITARY MANHOLE					
FLARED END SECTION					
HEADWALL					
HYDRANT					
POLE MOUNTED LIGHT					
CABLE TV CONDUIT					
WATER MAIN					
GAS MAIN					
TELEPHONE CONDUIT					
ELECTRIC CONDUIT					
SANITARY PIPE					
STORM PIPE					



TOWN OF WAWAYANDA
PLANNING BOARD

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REV	DATE	DESCRIPTION	BY	CHKD
1	8/10/2021	REVISED PER TOWN & CONSULTANT COMMENTS AND STORMWATER TESTS	CDR	
2	8/10/2021	REVISED PER PLANNING BOARD COMMENTS	CDR	

Andrew B. Fetherston
NEW YORK LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 073553-01
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.Y. C.O.A.#: 9017699

PRELIMINARY SITE PLAN

FOR

RDM GROUP
COUNTY ROAD 56

SECTION 12
BLOCK 1
LOT 2.2

TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

Engineering & Design

555 Hudson Valley Avenue
Suite 101
New Windsor, NY 12553
Phone: 845.564.4495
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS WATER CONSULTING
ENGINEERING & LAND SURVEYING

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	03/10/2021	CDR	JED
PROJECT NUMBER:	DRAWING NAME:		
20003236A	C-UTIL		

SHEET NUMBER

09 of 22

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

1. FOR CONSTRUCTION SITES THAT DIRECTLY DISCHARGE TO ONE OF THE 303(D) SEGMENTS LISTED IN APPENDIX E OF THE GP-02-0001 OR IS LOCATED IN ONE OF THE WATERSHEDS LISTED IN APPENDIX C OF THE GP-02-0001, THE QUALIFIED INSPECTOR SHALL CONDUCT AT LEAST TWO (2) SITE INSPECTIONS EVERY SEVEN (7) CALENDAR DAYS. THE TWO (2) INSPECTIONS SHALL BE SEPARATED BY A MINIMUM OF TWO (2) FULL CALENDAR DAYS.
2. FOR CONSTRUCTION SITES THAT DIRECTLY DISCHARGE TO ONE OF THE 303(D) SEGMENTS LISTED IN APPENDIX E OF THE GP-02-0001 OR IS LOCATED IN ONE OF THE WATERSHEDS LISTED IN APPENDIX C OF THE GP-02-0001, THE APPLICATION OF SOIL STABILIZATION MEASURES INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN SEVEN (7) DAYS.
3. THE PROJECT SITE DISCHARGES TO THE MONONGAHEA RIVER LISTED IN APPENDIX E OF THE GP-02-0001.

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE, AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR FOURTEEN (14) DAYS OR LONGER THAN FIVE (5) ACRES AND SEVEN (7) DAYS FOR DISTURBANCES LESS THAN FIVE (5) ACRES, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL BE PROTECTED IMMEDIATELY WITH EROSION CONTROL MEASURES TO PREVENT SOIL EROSION. THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
3. PERMANENT VEGETATION IS TO BE SEED OR SOODED ON ALL EXPOSED AREAS WITHIN FIVE (5) DAYS AFTER FINAL GRADING. MULCHING IS REQUIRED ON ALL SEEDING, WHEN HYDROSEEDING, MULCH SHALL NOT BE INCLUDED IN THE TANK. WITH THE SEED.
4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2016 NEW YORK STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
5. A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROAD GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADWAYS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUBBASE SHALL BE INSTALLED AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROAD GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROUGH EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A LUTITE MULCH, INSTALLED AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
7. ANY STEEP SLOPES RECEIVING PILE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1).
8. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD. AT ALL CONSTRUCTION DRIVeways, IMMEDIATELY AFTER THE INITIAL DISTURBANCE.
9. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SHALL BE COVERED WITH TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL WITHIN 90 DAYS OF 1:5 OR MORE.
10. AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE COMPLETED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE EXPOSED AND UNDISTURBED UNTIL THE VEGETATIVE GROUND COVER IS SUITABLE. SOIL CONDITIONS AND REMOTE IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS FOR VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
11. CONDUIT OUTLET PROTECTION MUST BE REVIEWED & SUPPLEMENTED AT ALL OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
12. UNFILTERED DEWATERING IS NOT PERMITTED. TAKE ALL NECESSARY PRECAUTIONS DURING DEWATERING TO PREVENT EROSION OR SEDIMENT BEYOND THE PROPERTY. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH STATE STANDARDS.
13. THE SOLE CONTROL OF DUST AT THE SITE IS THE VEGETATIVE. THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED IMMEDIATELY. ALL DUST SHALL BE IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
14. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAY WILL BE REMOVED IMMEDIATELY.
15. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION AND SEDIMENTATION THAT OCCURS BEYOND THE PROPERTY WATERWAYS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
16. STOCKPILE AND STAGING LOCATIONS DETERMINED IN THE FIELD, SHALL BE PLACED WITHIN THE LIMITS OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN.
17. CONCRETE WASHOUT, DUMPSTER, & STAGING AREA LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED AT THE PRE-CONSTRUCTION MEETING. ALL CONCRETE WASHOUT, DUMPSTER, & STAGING AREAS SHALL BE ENCLOSED BY FENCING, AND ENTRANCE AND STAGING AREAS SHALL BE USED PRIOR TO EXTENDING THE PROJECT BEYOND THE PROPERTY LINE. ALL AREAS MUST BE CLEARLY DELINEATED, AREA AND BE MAINTAINED THROUGHOUT CONSTRUCTION.
18. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
19. ALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD, AND SHALL BECOME THE RESPONSIBILITY OF THE PROPERTY OWNER, AND SHALL BECOME THEIR RESPONSIBILITY.
20. PAVEMENT AREAS ARE TO BE KEPT CLEAN AT ALL TIMES.
21. DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR SEDIMENT BEYOND THE PROPERTY LINE, THE MEASURES SHOWN ON THE APPROVED PLAN SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE MUNICIPAL ENGINEER.
22. ALL TEMPORARY STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES CAN BE EXPOSED TO THE PUBLIC. ANY EROSION OR SEDIMENT BEYOND THE PROPERTY LINE COMPLETED, ALL AREAS OF DISTURBANCE HAVE ACHIEVED FINAL STABILIZATION" AND THE MUNICIPAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ANY EROSION OR SEDIMENT BEYOND THE PROPERTY LINE SHALL BE REMOVED IMMEDIATELY AND SHALL BE IN CONFORMANCE WITH THE SWPPP AND ARE OPERATIONAL.
23. BOTTOM AND BERM ELEVATIONS OF TEMPORARY SEDIMENT BASINS TO BE REVIEWED WITH THE CONTRACTOR BASED ON THEIR PROPOSED CONSTRUCTION SEQUENCE FOR THE PROJECT.

	CONSTRUCTION LIMIT LINE
	SILT FENCE
	SILT SOCK
	ORANGE CONSTRUCTION FENCE
	STORM INLET SEDIMENT TRAP
	STABILIZED CONSTRUCTION ENTRANCE
	SEDIMENT TRAP OUTLET
	TEMPORARY SWALE
	TEMPORARY SEDIMENT BASIN
	MATERIAL STOCKPILE
	CHECK DAM

MATERIAL STOCKPILE

40 0 40 80

SCALE : 1" = 40'

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Andrew B. Fetherston
 Digital Signature by Andrew B. Fetherston
 Date: 2021.08.25 12:47:50-0400

Andrew B. Fetherston
 NEW YORK LICENSED PROFESSIONAL ENGINEER
 LICENSE NUMBER: 073555-01
 COLLIER ENGINEERING & DESIGN C.T. P.C.
 N.Y. C.O.A #: 0017609

PRELIMINARY SITE PLAN

FOR
RDM GROUP
COUNTY ROAD 56

SECTION 12
BLOCK 1
LOT 2.2

TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

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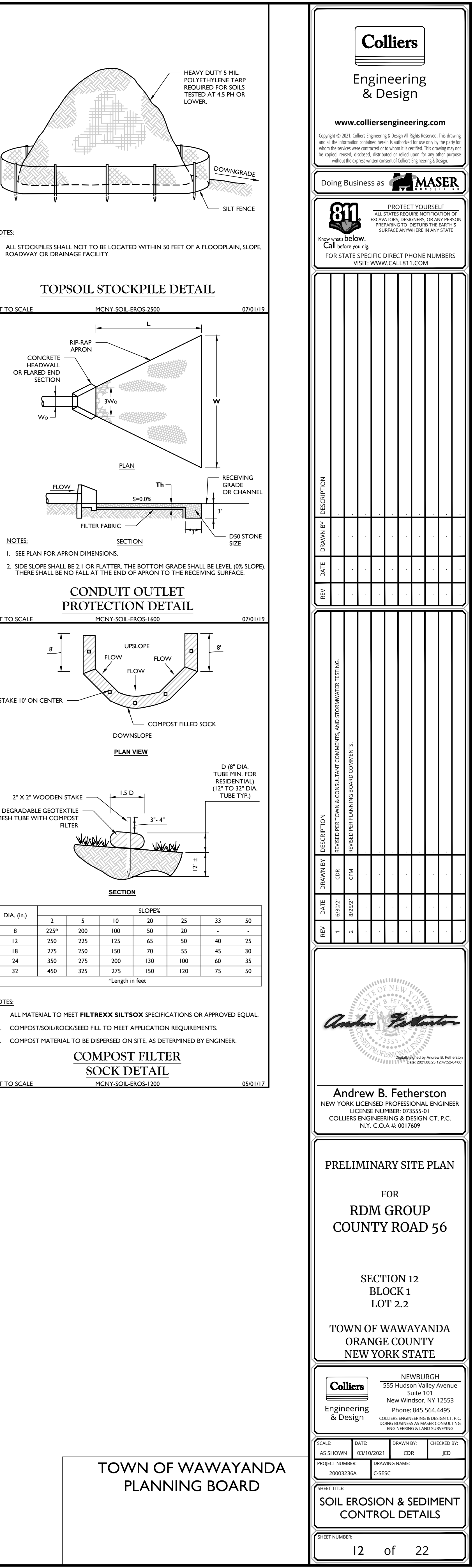
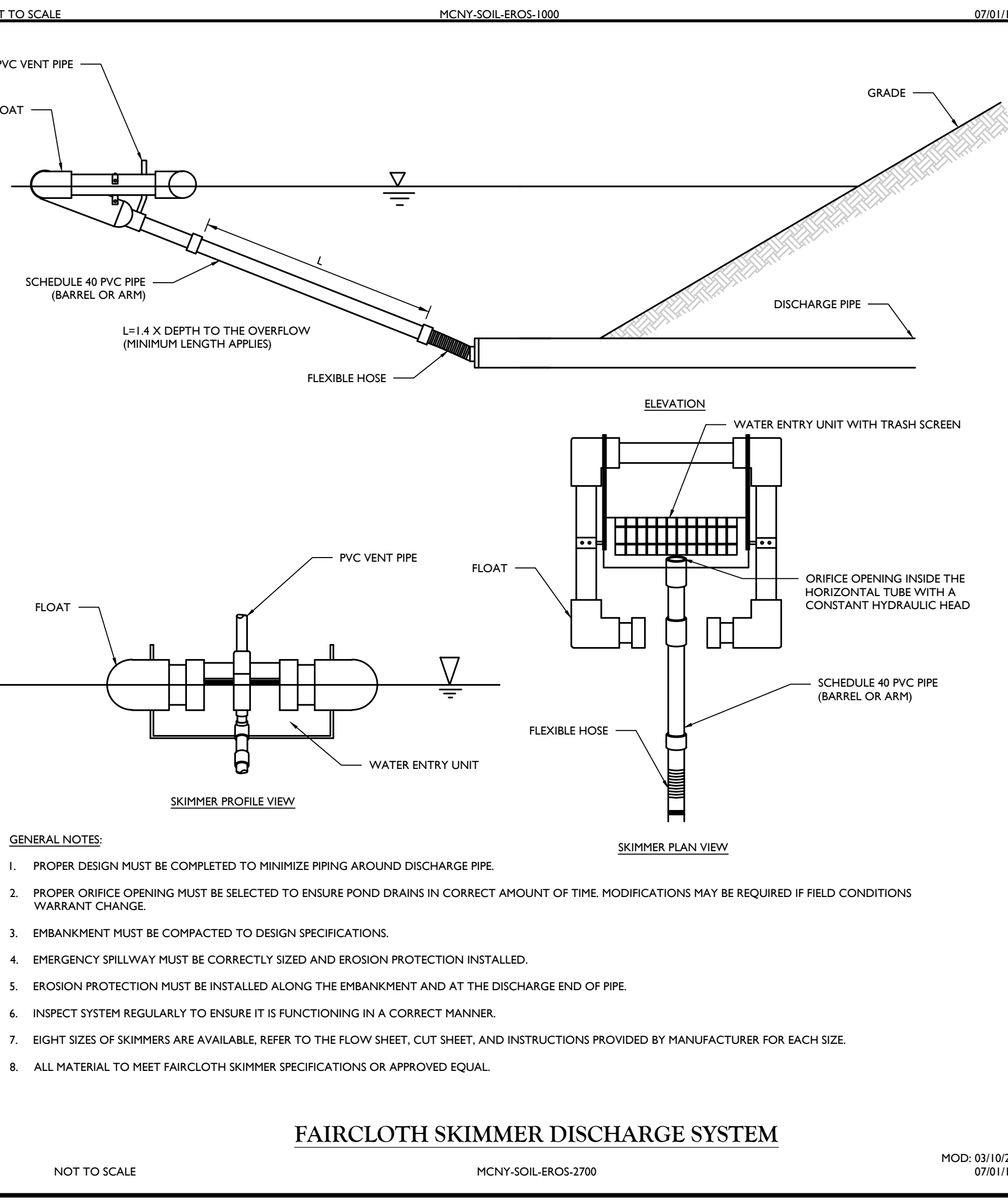
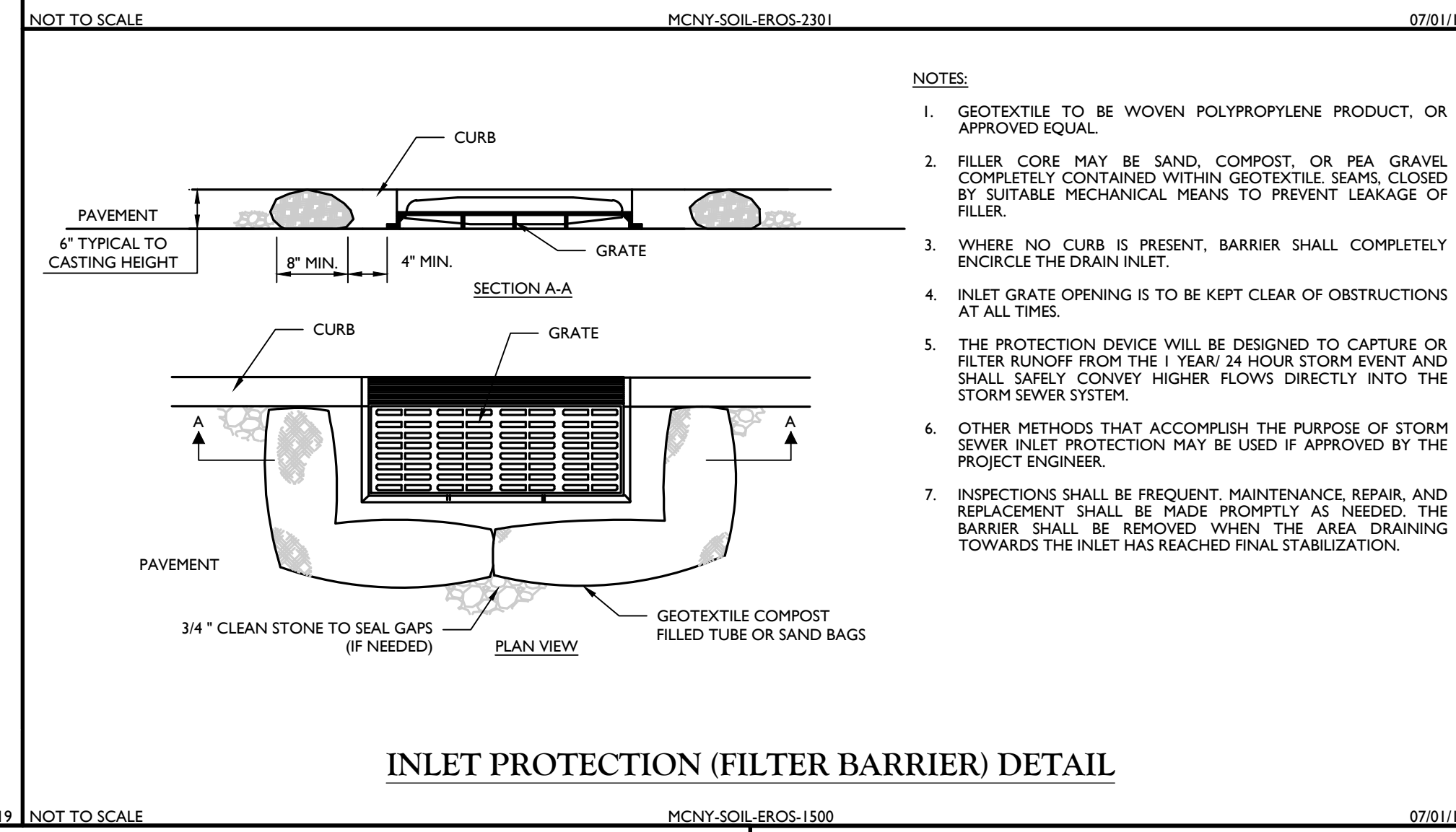
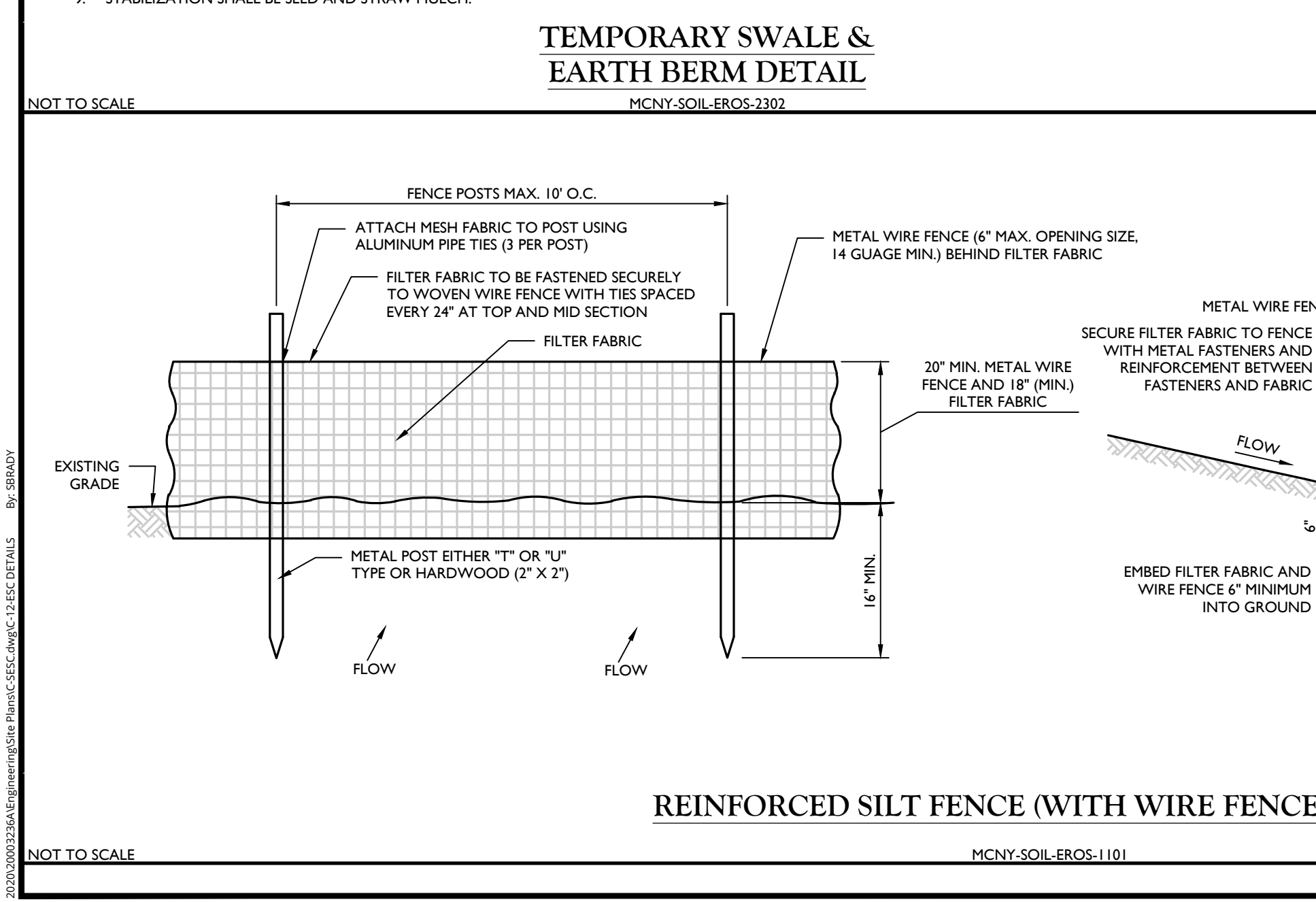
NEWBURGH
555 Hudson Valley Avenue
Suite 101
New Windsor, NY 12553
Phone: 845.564.4495
COLLIERS ENGINEERING & DESIGN CT, P.C.

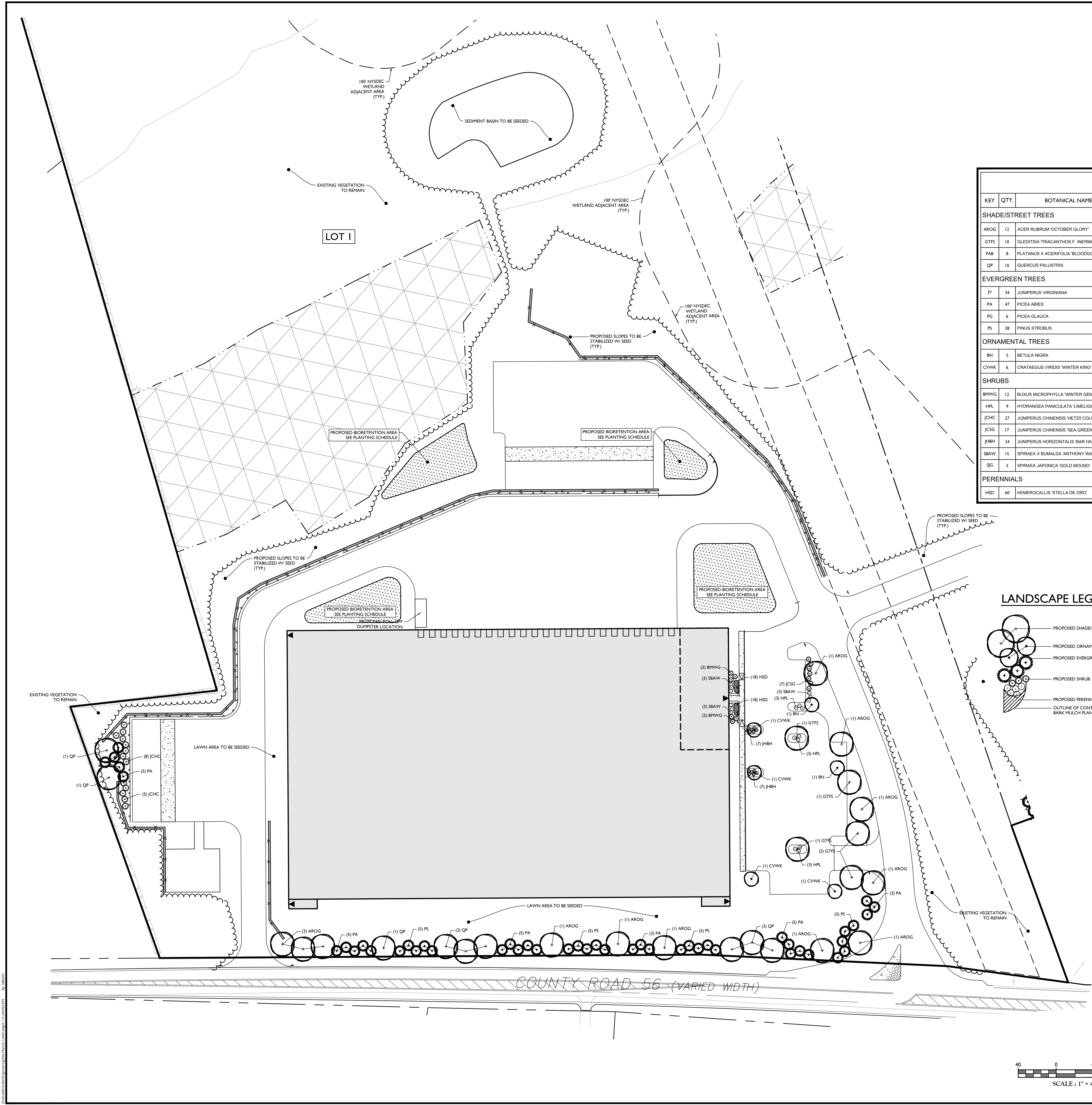
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AS SHOWN	03/10/2021	CDR	JED
PROJECT NUMBER:		DRAWING NAME:	
20003236A		C-SESC	

SHEET TITLE:

SOIL EROSION &
SEDIMENT CONTROL PLAN

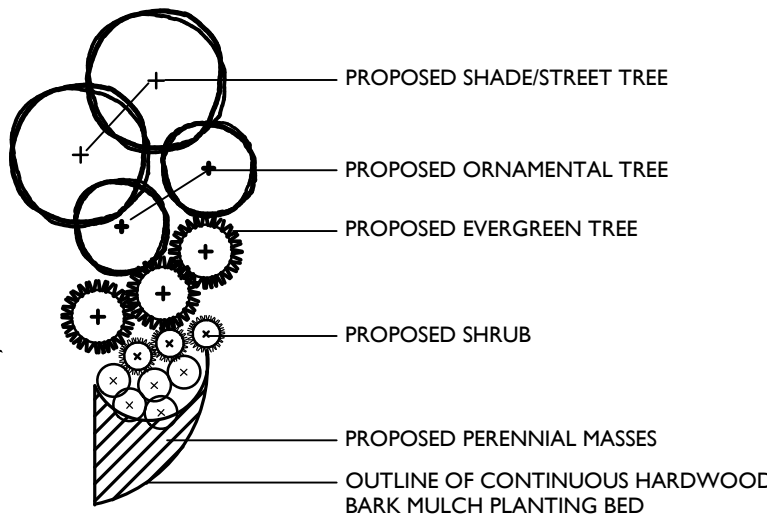
SHEET NUMBER:
10 of 22





SITE PLANTING SCHEDULE (LOTS 1 & 2)								
KEY	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	CALIPER	SPREAD	ROOT	REMARKS
SHADE/STREET TREES								
AROG	12	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE		2" - 2-1/2"		B & B	STRAIGHT LEADER/SYM. BRANCHING
GTF5	10	GLEDITSIA TRIACANTHOS F. INERMIS 'SKYLINE'	SKYLINE HONEY LOCUST		2" - 2-1/2"		B & B	STRAIGHT LEADER/SYM. BRANCHING
PAB	8	PLATANUS X ACERIFOLIA 'BLOODGOOD'	BLOODGOOD SYCAMORE		2" - 2-1/2"		B & B	STRAIGHT LEADER/SYM. BRANCHING
QP	10	QUERCUS PALUSTRIS	PIN OAK		2" - 2-1/2"		B & B	STRAIGHT LEADER/SYM. BRANCHING
EVERGREEN TREES								
JV	34	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6'-7"			CONT.	TYPICAL SPECIES HABIT
PA	47	PICEA ABIES	NORWAY SPRUCE	6'-7"			B & B	DENSE / TYP. SPECIES HABIT
PG	6	PICEA GLAUCA	WHITE SPRUCE	6'-7"			B & B	DENSE / TYP. SPECIES HABIT
PS	28	PINUS STROBUS	EASTERN WHITE PINE	6'-7"			B & B	DENSE / TYP. SPECIES HABIT
ORNAMENTAL TREES								
BN	5	BETULA NIGRA	RIVER BIRCH	8'-10'			CONT.	MULTISTEM/TYP. SPECIES HABIT
CVWK	6	CRATAEGUS VIRIDIS 'WINTER KING'	WINTER KING HAWTHORN		1-3/4" - 2"		CONT.	STRAIGHT LEADER/SYM. BRANCHING
SHRUBS								
BMWG	12	BUXUS MICROPHYLLA 'WINTER GEM'	WINTER GEM BOXWOOD	18"-24"			CONT.	TYPICAL SPECIES HABIT
HPL	9	HYDRANGEA PANICULATA 'LIMELIGHT'	LIMELIGHT HYDRANGEA	24"-30"			CONT.	TYPICAL SPECIES HABIT
JCHC	27	JUNIPERUS CHINENSIS 'HETZLI COLUMNARIS'	GREEN COLUMNAR JUNIPER	6'-7"			CONT.	TYPICAL SPECIES HABIT
JCSG	17	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	24"-30"			CONT.	TYPICAL SPECIES HABIT
JHBH	24	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	BAR HARBOR JUNIPER			18"-24"	CONT.	TYPICAL SPECIES HABIT
SBAW	15	SPIRAEA X BUMALDA 'ANTHONY WATERER'	ANTHONY WATERER SPIREA	18"-24"			CONT.	TYPICAL SPECIES HABIT
JG	5	SPIRAEA JAPONICA 'GOLD MOUND'	GOLD MOUND SPIREA	18"-24"			CONT.	TYPICAL SPECIES HABIT
PERENNIALS								
HSD	60	HEMEROCALLIS 'STELLA DE ORO'	STELLA DE ORO DAYLILY				1 GAL. CONT.	CLUMPS, 24" O.C.

LANDSCAPE LEGEND:

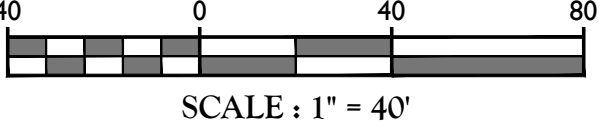


PLAN NOTE:

1. THIS PLAN IS TO BE USED FOR LANDSCAPE PURPOSES ONLY. REFER TO DETAIL SHEETS FOR GENERAL NOTES AND LANDSCAPE DETAILS.

LANDSCAPE NOTES:

- LOCATIONS OF ALL PLANT MATERIAL AND PLANTING BED OUTLINES IS APPROXIMATE AND MAY VARY DUE TO THE LOCATIONS OF SITE IMPROVEMENTS AND/OR BUILDING.
- FINAL LOCATION OF ALL PLANT MATERIAL AND PLANTING BED OUTLINES SHALL BE DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE PROJECT LANDSCAPE ARCHITECT.
- ALL AREAS WITHIN THE PLANTING BED LIMITS SHALL BE MULCHED WITH 3" OF SHREDDED HARDWOOD BARK MULCH.
- ANY PROPOSED IRRIGATION DESIGN AND/OR SYSTEM WILL BE DETERMINED IN THE FIELD BY THE IRRIGATION CONTRACTOR.
- ALL PLANT MATERIAL SHALL CONFORM TO GUIDELINES AS SET FORTH IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S STANDARD FOR NURSERY STOCK.
- NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE MADE WITHOUT WRITTEN CONSENT FROM THE MUNICIPAL LANDSCAPE CONSULTANT.
- ALL VEGETATION SHOWN ON THIS PLAN WILL BE MAINTAINED IN A HEALTHY AND VIGOROUS GROWING CONDITION THROUGHOUT THE DURATION OF THE PROPOSED USE.
- ONLY NATURAL HERBICIDES AND PESTICIDES WILL BE USED IF NECESSARY IN THE MANAGEMENT OF THE SITE LANDSCAPING.



TOWN OF WAWAYANDA
PLANNING BOARD

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REV	DATE	DESCRIPTION	BY	CHK	APP
1	6/8/2021	REVISED PER TOWN & CONSULTANT COMMENTS, AND STORMWATER TREATMENT			
2	8/2/2021	REVISED PER PLANNING BOARD COMMENTS			

Justin Eric Dates
NEW YORK REGISTERED LANDSCAPE ARCHITECT
LICENSE NUMBER: 001964-3
COLLIERS ENGINEERING & DESIGN CT, P.C.

PRELIMINARY SITE PLAN
FOR
RDM GROUP
COUNTY ROAD 56

SECTION 12
BLOCK 1
LOT 2.2

TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

Engineering & Design

555 Hudson Valley Avenue
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COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS WATER CONSULTING
ENGINEERING & LANDSCAPING

SCALE: AS SHOWN	DATE: 03/10/2021	DRAWN BY: SMB	CHECKED BY: JED
PROJECT NUMBER: 20003236A	DRAWING NAME: C-LAND		

SHEET TITLE:
LANDSCAPE PLAN

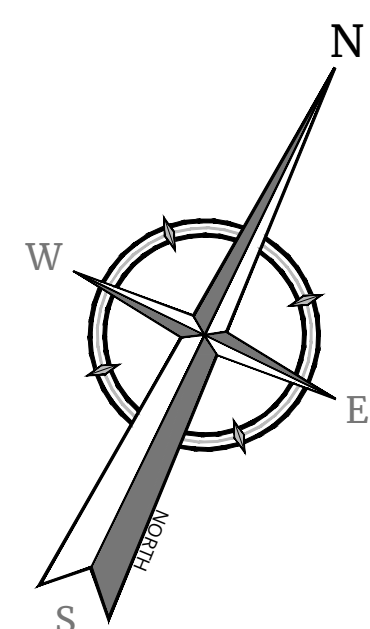
SHEET NUMBER:
13 of 22

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

LUMINAIRE SCHEDULE (LOTS 1 & 2)							
KEY	QTY.	DESCRIPTION	ARRANGEMENT	MTG. HT.	LUMENS/LAMP	LLF	CATALOG #
A	26	AMERICAN ELECTRIC LIGHTING ATB0 SERIES LED	SINGLE	20' & 25'	5,742	0.93	ATB0-10BLEDE15-MVOLT-R3-4K-BK-HS-UMS-XX
B	3	AMERICAN ELECTRIC LIGHTING ATB0 SERIES LED	DOUBLE	20'	5,742	0.93	ATB0-10BLEDE15-MVOLT-R3-4K-BK-HS-UMS-XX
C	6	AMERICAN ELECTRIC LIGHTING ATB0 SERIES LED	SINGLE	30'	16,463	0.93	ATB0-30BLEDE15-MVOLT-R4-4K-BK-HS-UMS-XX
D	9	AMERICAN ELECTRIC LIGHTING ATB0 SERIES LED	SINGLE	30'	16,463	0.93	ATB0-30BLEDE15-MVOLT-R4-4K-BK-HS-UMS-XX
E	13	HOLOPHANE WALL PACK FULL CUTOFF LED	SINGLE	25' / 30'	9,883	0.95	HLWPC2-P40-40K-MVOLT-T4M-BKSDP-P3
F	2	AMERICAN ELECTRIC LIGHTING ATB0 SERIES LED	SINGLE	25'	4,232	0.93	ATB0-10BLEDE10-MVOLT-R4-4K-BK-HS-UMS-XX

I. LIGHT FIXTURE VOLTAGE REQUIREMENTS TO BE CONFIRMED BY CONTRACTOR PRIOR TO ORDERING.

CALCULATION SUMMARY							
DESCRIPTION	CALC. TYPE	UNITS	AVG.	MAX.	MIN.	AVG. / MIN.	
LOT 1: PAVEMENT AREA SUMMARY	ILLUMINANCE	FC	1.1	3.3	0.1	11.0:1	



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2	8/8/2021	ISSUED FOR PERMITS

REV	DATE	DESCRIPTION
1	8/8/2021	ISSUED FOR PERMITS
2	8/8/2021	ISSUED FOR PERMITS



Justin Eric Dates
NEW YORK REGISTERED LANDSCAPE ARCHITECT
LICENSE NUMBER: 001964-0
COLLIERS ENGINEERING & DESIGN CT, P.C.

PRELIMINARY SITE PLAN

FOR
RDM GROUP
COUNTY ROAD 56

SECTION 12
BLOCK 1
LOT 2.2

TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

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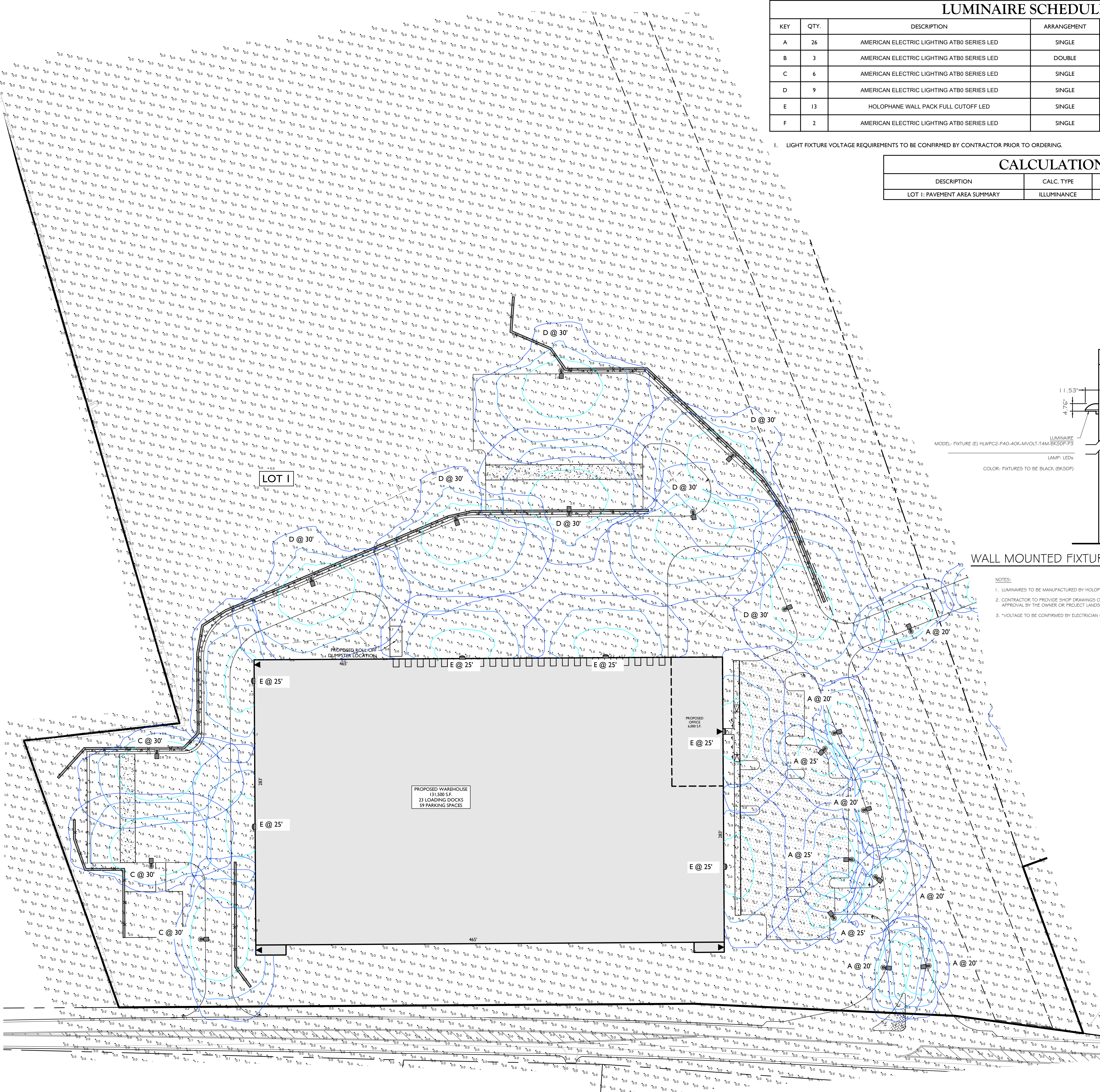
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PROJECT NUMBER: 200032364 DRAWING NAME: C-LIGHT

SHEET TITLE: LIGHTING PLAN

SHEET NUMBER: 15 of 22

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



WALL MOUNTED FIXTURE DETAIL

NOTES:

- LUMINAIRES TO BE MANUFACTURED BY HOLOPHANE LIGHTING OR APPROVED EQUAL.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT.
- VOLTAGE TO BE CONFIRMED BY ELECTRICIAN CONTRACTOR.

POLE MOUNTED FIXTURE DETAIL

NOT TO SCALE

NOTES:

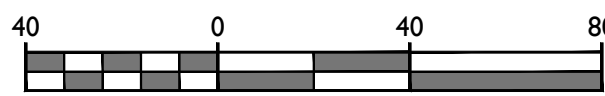
- LUMINAIRES TO BE MANUFACTURED BY AMERICAN ELECTRIC LIGHTING AND POLES BY HOLOPHANE MANUFACTURER TO CONFIRM POLE SIZE OR APPROVED EQUAL.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT.
- FOOTING TO BE DESIGNED, SIGNED, AND SEALED BY A N.Y.S. LICENSED ENGINEER.
- VOLTAGE TO BE CONFIRMED BY ELECTRICIAN CONTRACTOR.
- PROPOSED POLES HEIGHT TO BE MODIFIED IN FIELD TO MEET DESIGN.

LIGHTING LEGEND:

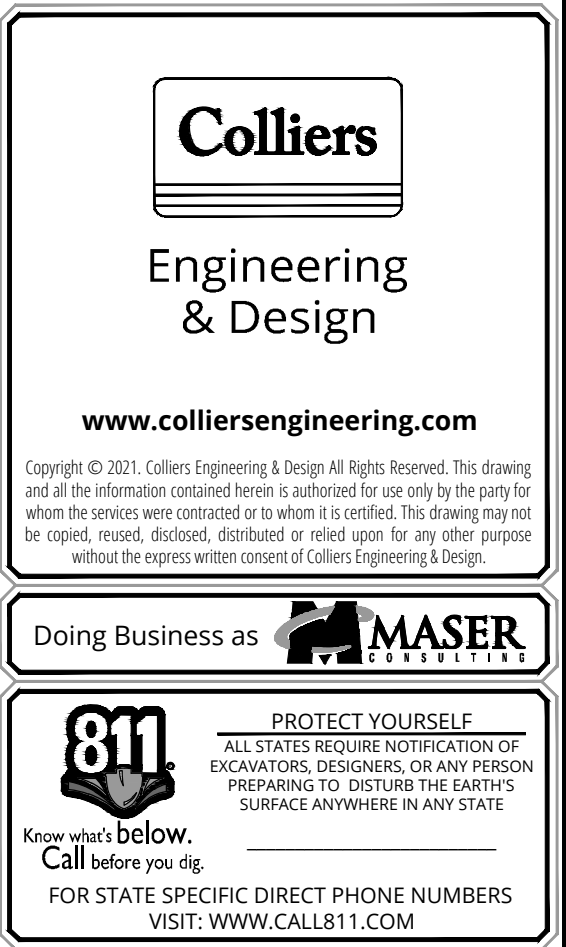
- DOUBLE FIXTURE POLE LIGHT
- SINGLE FIXTURE POLE LIGHT
- WALLPACK
- LIGHT LEVEL AT GRADE (IN FOOTCANDLES)

LIGHTING NOTES:

- THIS PLAN IS TO BE USED FOR LIGHTING PURPOSES ONLY.
- LUMINAIRES TO BE MANUFACTURED BY AMERICAN ELECTRIC LIGHTING AND POLES BY HOLOPHANE MANUFACTURER TO CONFIRM POLE SIZE OR APPROVED EQUAL.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT.
- FOOTING TO BE DESIGNED, SIGNED, AND SEALED BY A N.Y.S. LICENSED ENGINEER.
- VOLTAGE TO BE CONFIRMED BY ELECTRICIAN CONTRACTOR.
- PROPOSED POLES HEIGHT TO BE MODIFIED IN FIELD TO MEET DESIGN.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT.
- ELECTRICAL PLANS FOR WIRING LAYOUT BY OTHERS.
- POLE BASE INSTALLATION SHALL INCLUDE A SUPPLEMENTARY GROUND ROD AND WIRE LEAD TO BASE FOR POWER CONNECTION. DETAILS PER PROJECT ELECTRICAL ENGINEER.
- ALL LIGHTING FIXTURES WILL BE DARK SKY COMPLIANT.






SCALE: 1" = 40'



LIGHTING NOTES:

1. THIS PLAN IS TO BE USED FOR LIGHTING PURPOSES ONLY.
2. POLES AND FIXTURES AS SUPPLIED BY:
POLES & WALL FIXTURES - HOLMHEIM
FLOOR FIXTURES - AMERICAN ELECTRIC LIGHTING
3. LAMPS ARE TO BE LED, A LIGHT LOSS FACTOR (LLF) WAS USED AS SHOWN IN THE LUMINAIRES SCHEDULE
4. FIXTURES AND POLES ARE TO BE BLACK.
5. POLE MOUNTED FIXTURES SHALL BE PLACED A MINIMUM OF TWO (2) FEET BEHIND CURBS, EDGE OF PAVEMENT OR RETAINING WALLS IN CAR PARKING AREAS.
6. PROPOSED LIGHT FIXTURE LOCATIONS ARE CRITICAL TO PROVIDE THE LIGHTING LEVELS DEPICTED ON THIS PLAN. THE LIGHTING CONTRACTOR SHALL FIELD VERIFY FIXTURE LOCATIONS PRIOR TO INSTALLATION. IF ADJUSTMENT TO ANY LIGHT FIXTURE LOCATION IS REQUIRED DUE TO FINAL CONSTRUCTION OF UTILITIES AND SITE IMPROVEMENTS, THE LIGHTING CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
7. LIGHTING SHOWN ON PLAN DEPICTS AVERAGE MAINTAINED FOOTCANDLE LEVELS AT GRADE.
8. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT.
9. ELECTRICAL PLANS FOR WIRING LAUNCH BY OTHERS.
10. POLE BASE INSTALLATION SHALL INCLUDE A SUPPLEMENTARY GROUND ROD AND WIRE LEAD TO BASE FOR POWER CONNECTION. DETAILS PER PROJECT ELECTRICAL ENGINEER.
11. ALL LIGHTING FIXTURES WILL BE DARK SKY COMPLAINT.

LIGHTING LEGEND:

-  DOUBLE FIXTURE POLE LIGHT
-  SINGLE FIXTURE POLE LIGHT
-  > WALLPACK
- ^{0.0} LIGHT LEVEL AT GRADE (IN FOOTCANDLES)



Justin Eric Dates
NEW YORK REGISTERED LANDSCAPE ARCHITECT
LICENSE NUMBER: 001964-01
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PRELIMINARY SITE PLAN
FOR
RDM GROUP
COUNTY ROAD 56

SECTION 12
BLOCK 1
LOT 2.2

TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

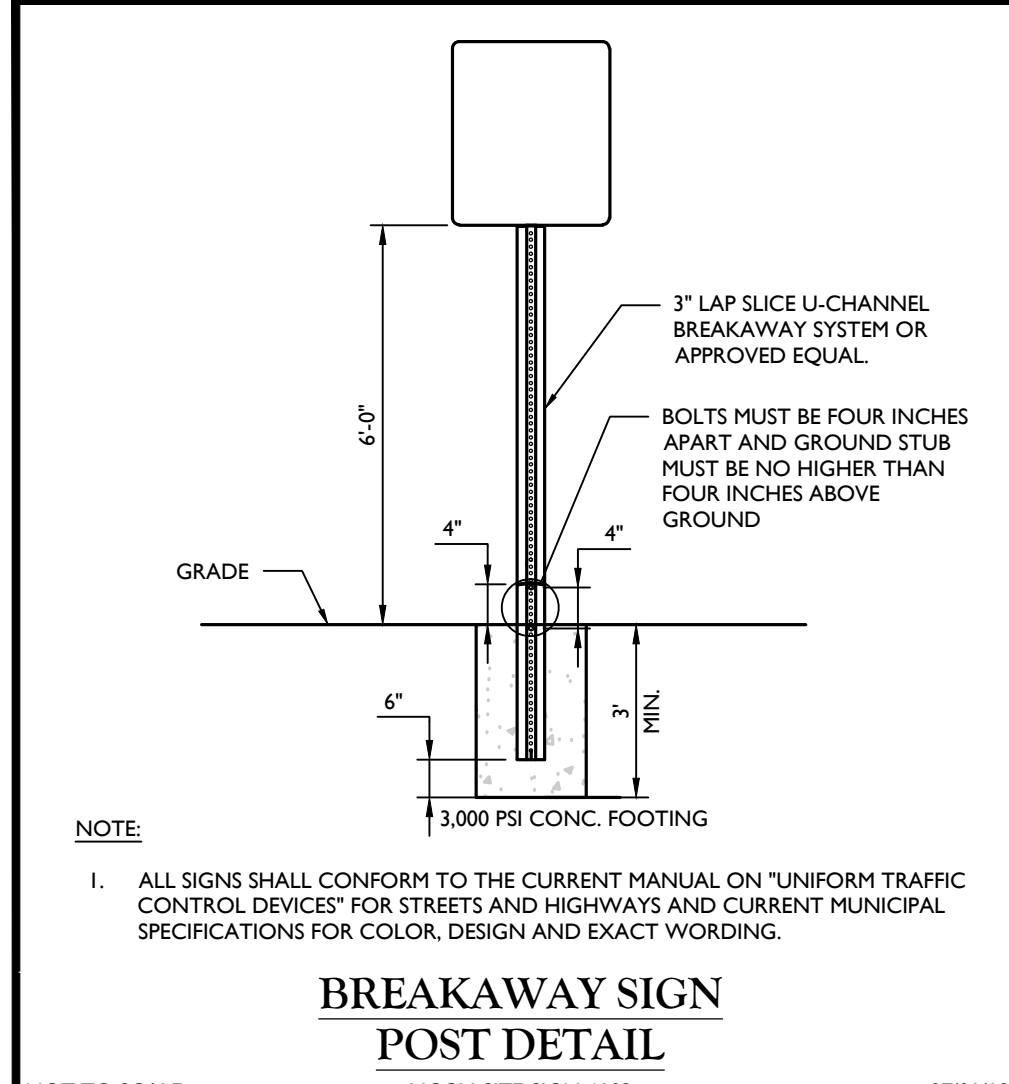
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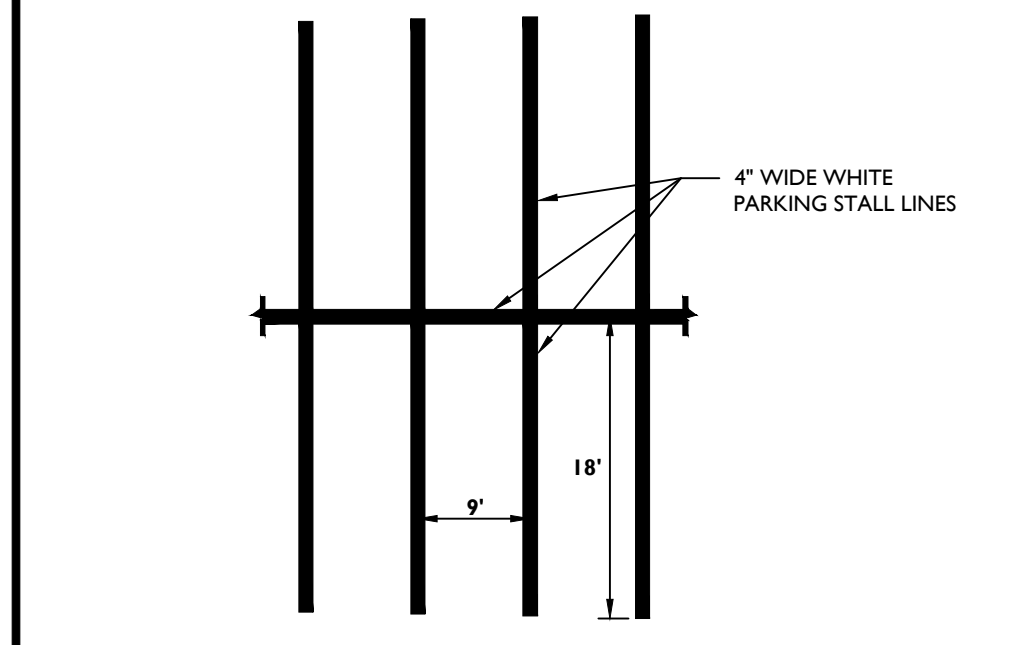
LIGHTING PLAN

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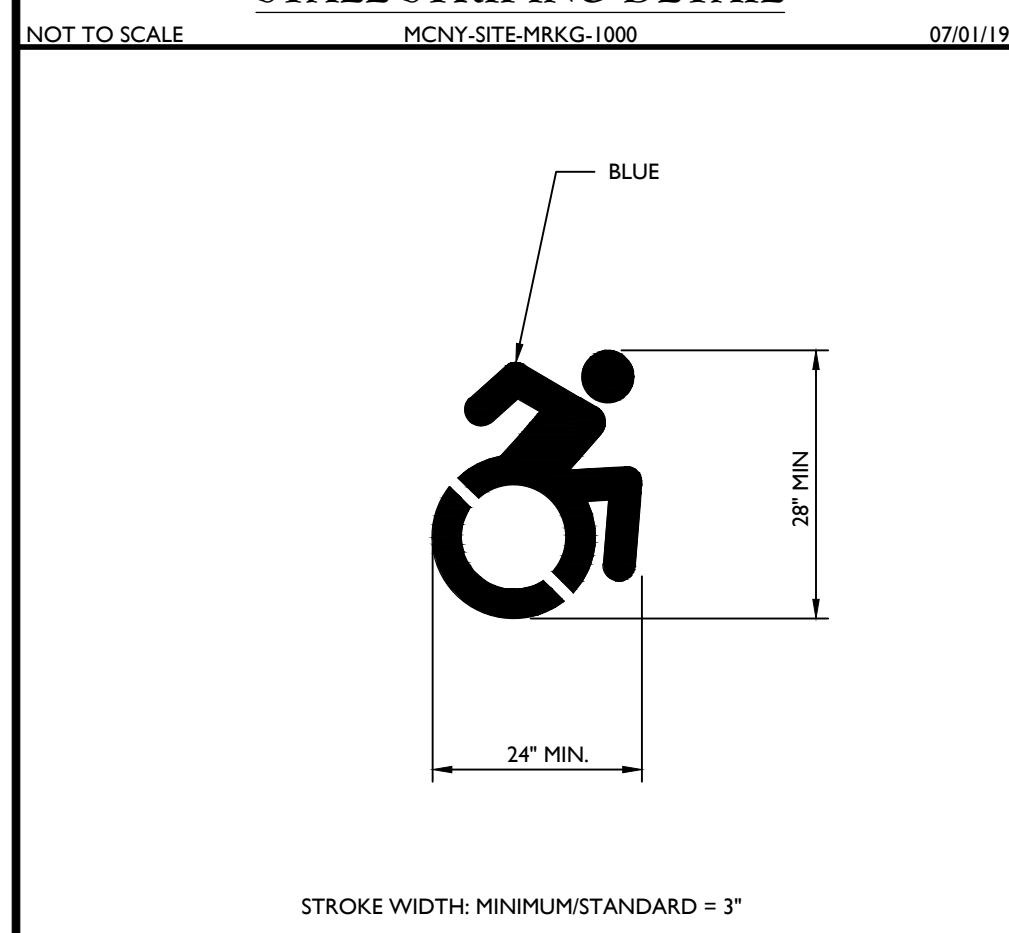
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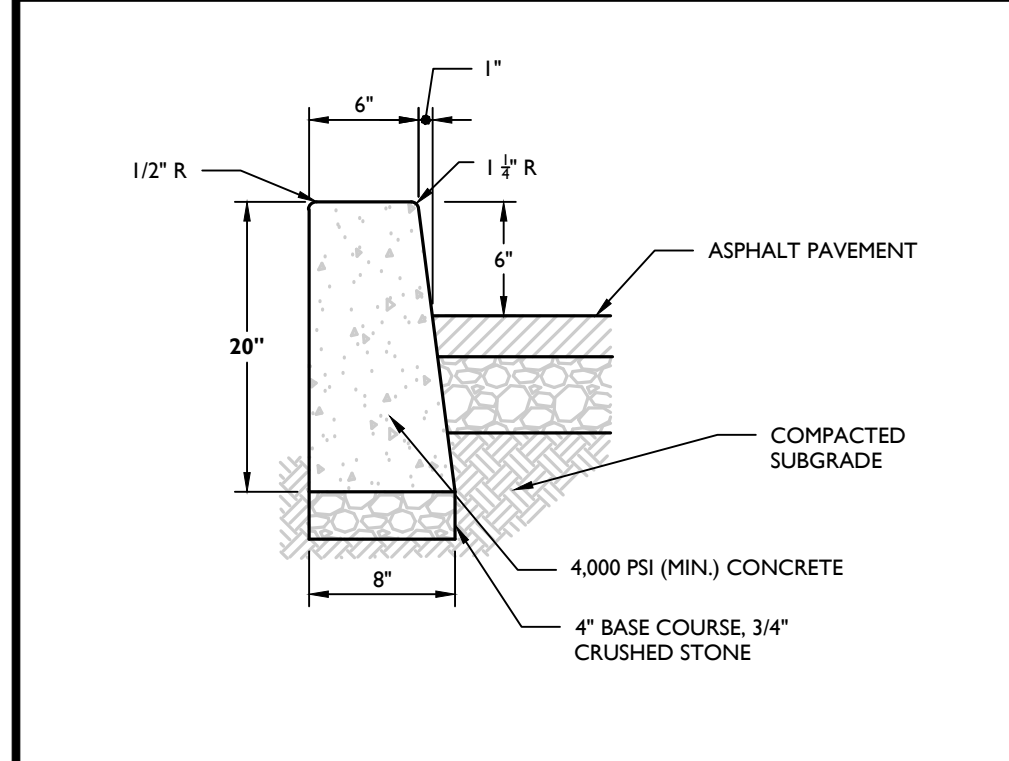
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MCNY-SITE-MRKG-1000

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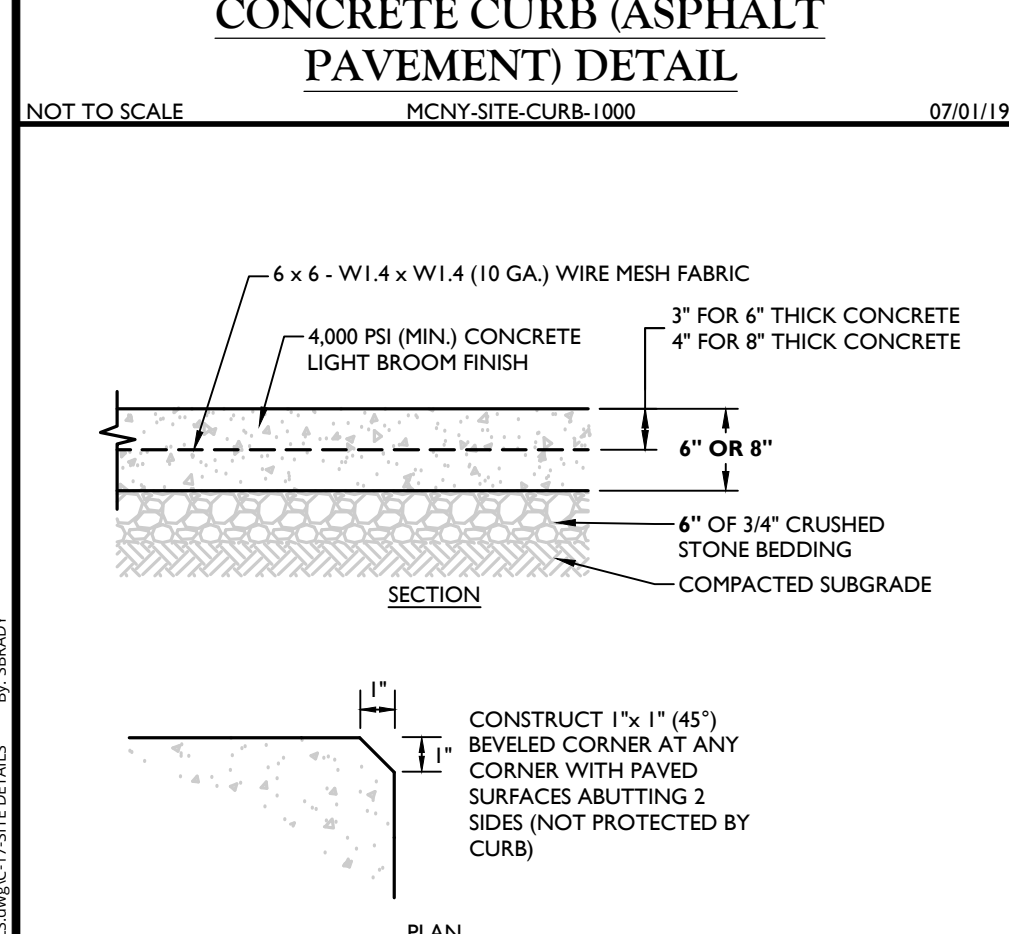
ACCESSIBLE SYMBOL DETAIL
MCNY-SITE-MRKG-2000

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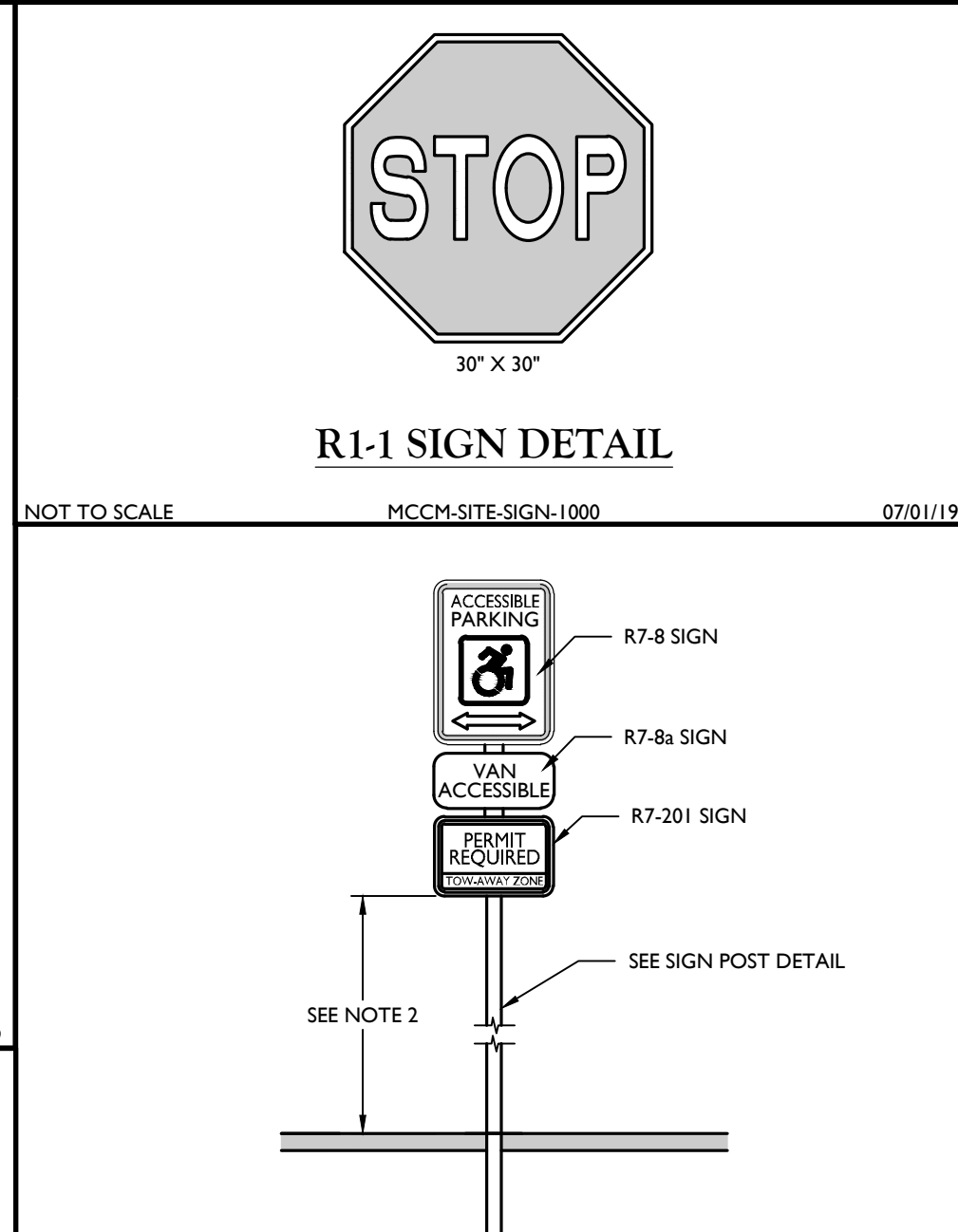
CONCRETE CURB (ASPHALT PAVEMENT) DETAIL
MCNY-SITE-CURB-1000

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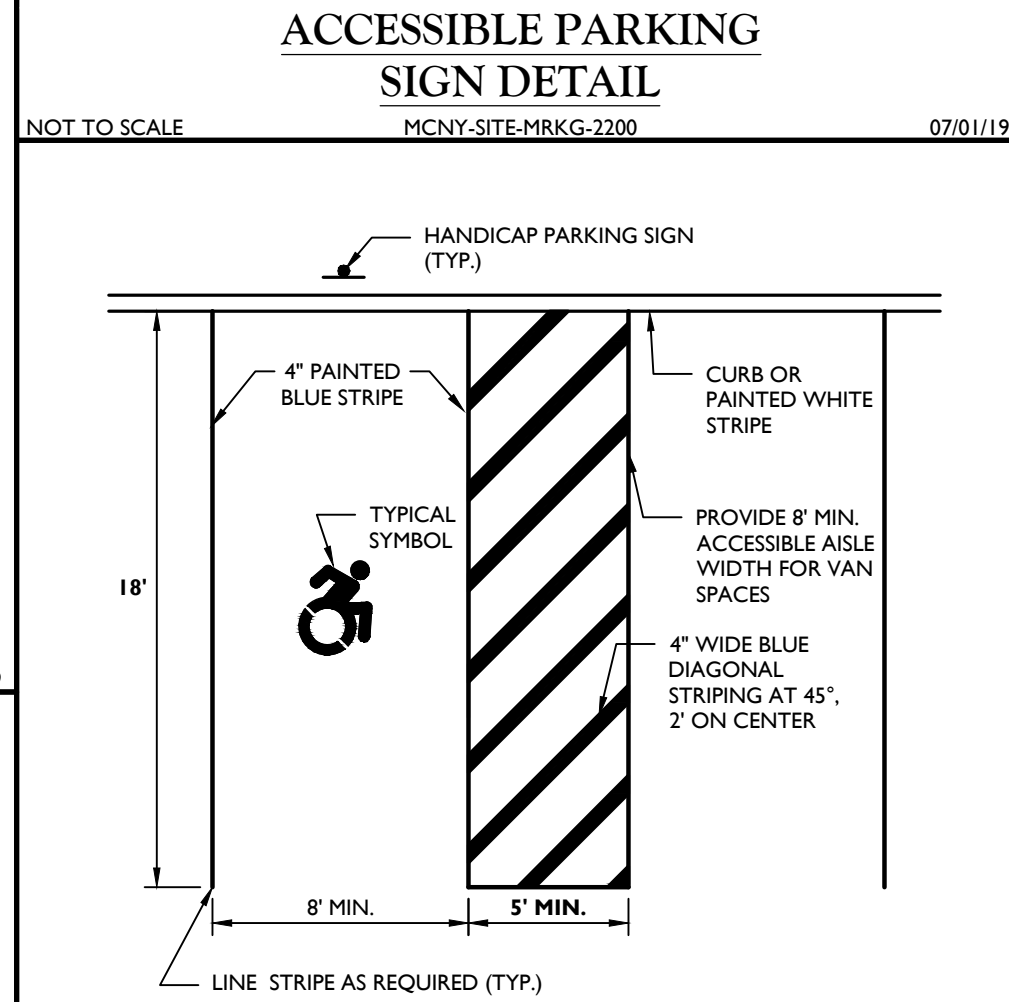
CONCRETE LOADING PAD DETAIL
MCNY-SITE-PMT-1000

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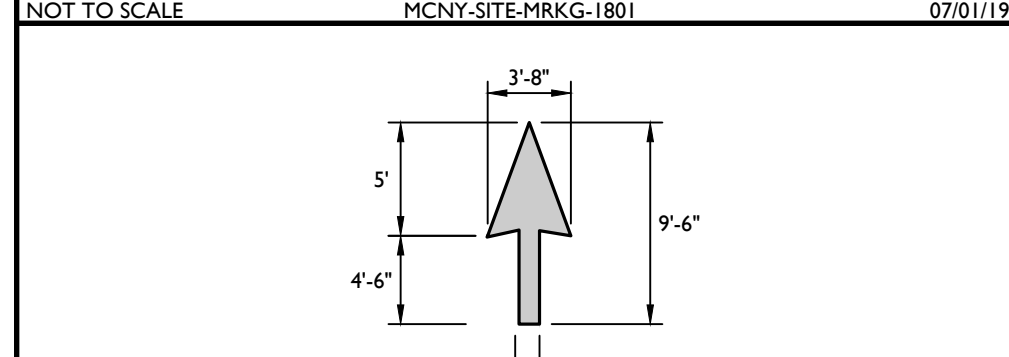
R1-1 SIGN DETAIL
MCCH-SITE-SIGN-1000

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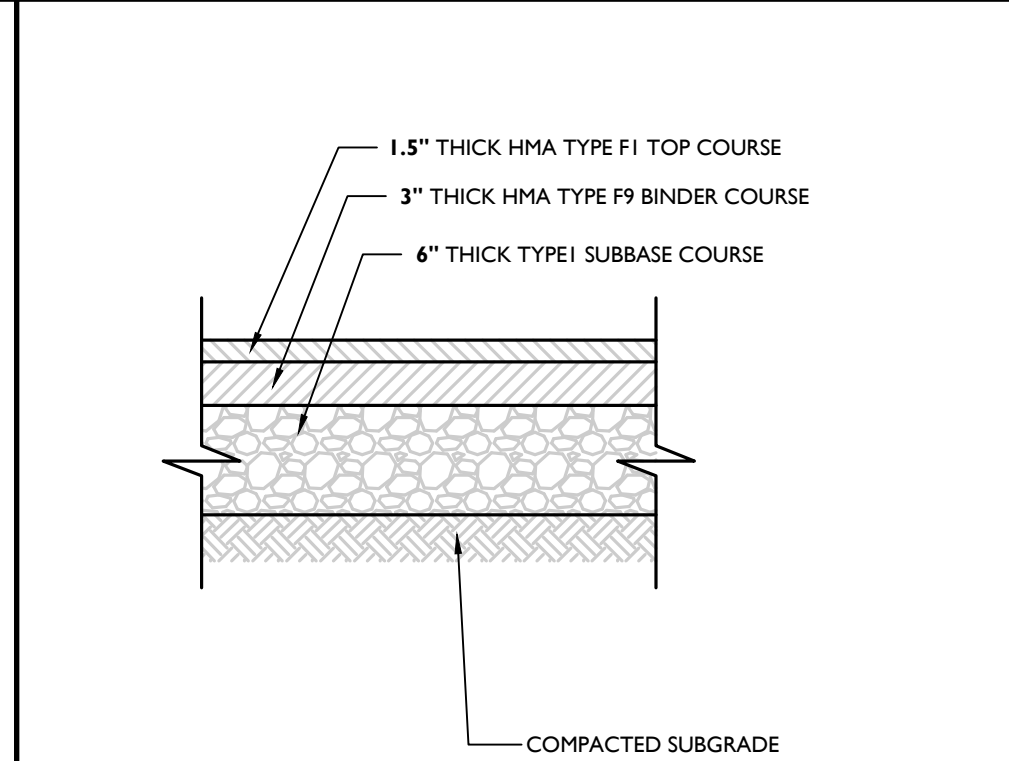
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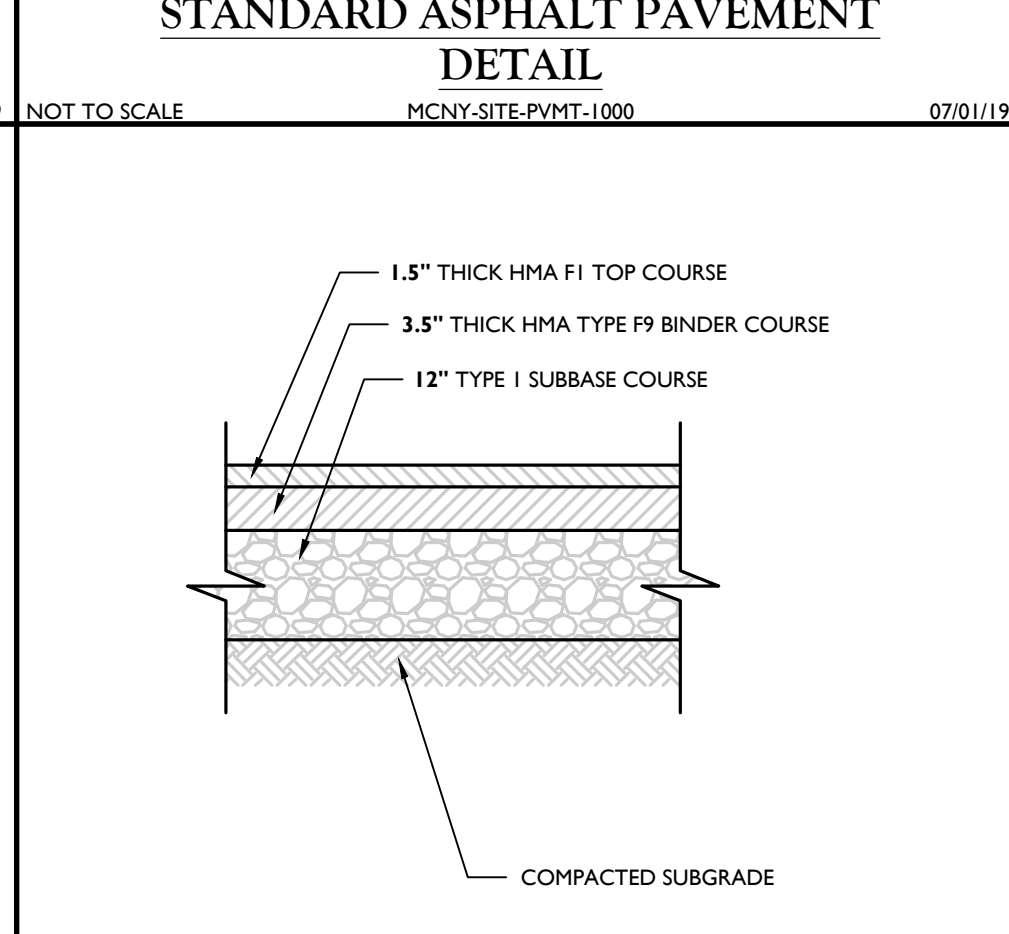
ACCESSIBLE PARKING LINE STRIPE STALL DETAIL
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STRAIGHT PAVEMENT ARROW DETAIL
MCNY-SITE-MRKG-1200

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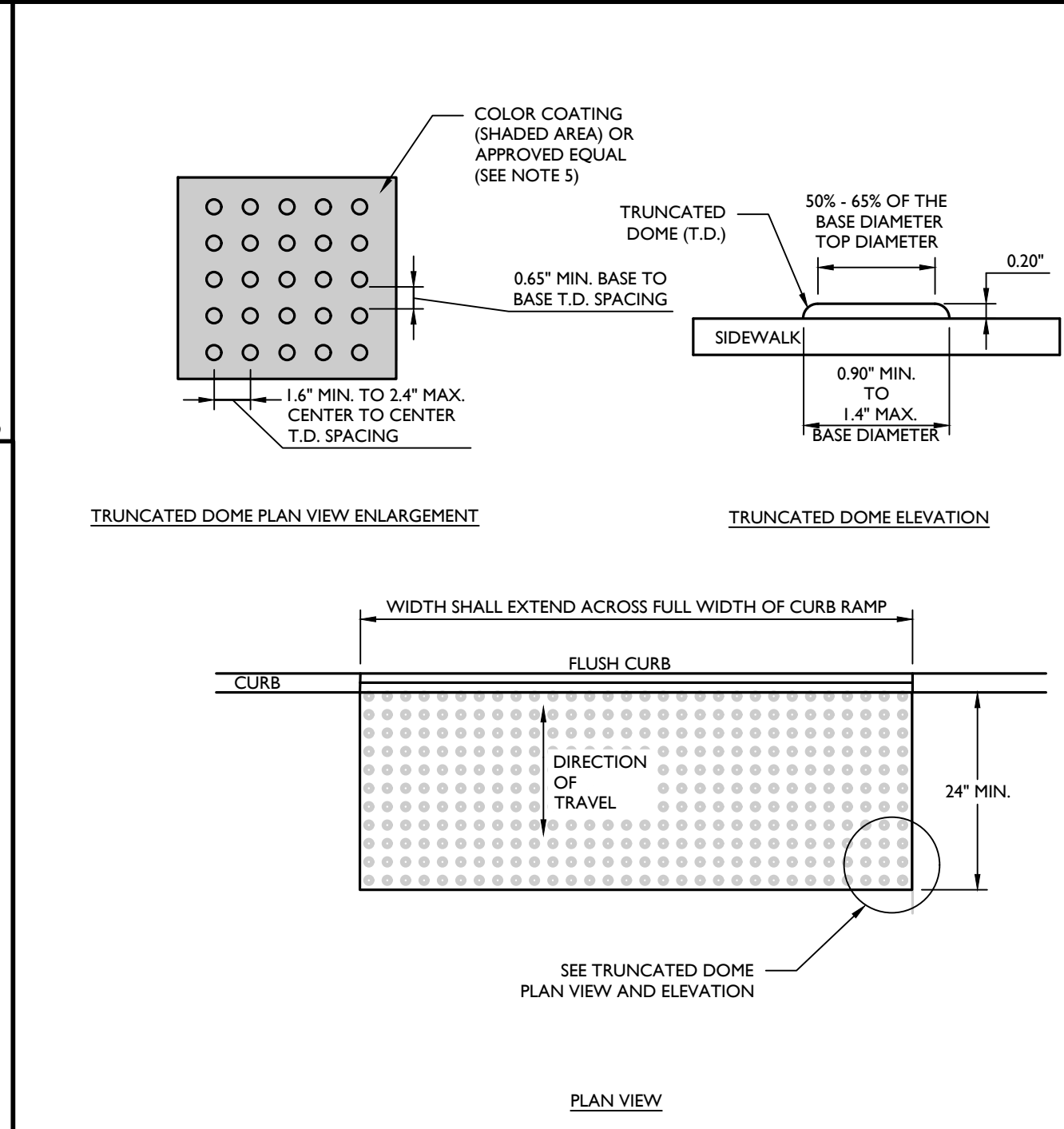
STANDARD ASPHALT PAVEMENT DETAIL
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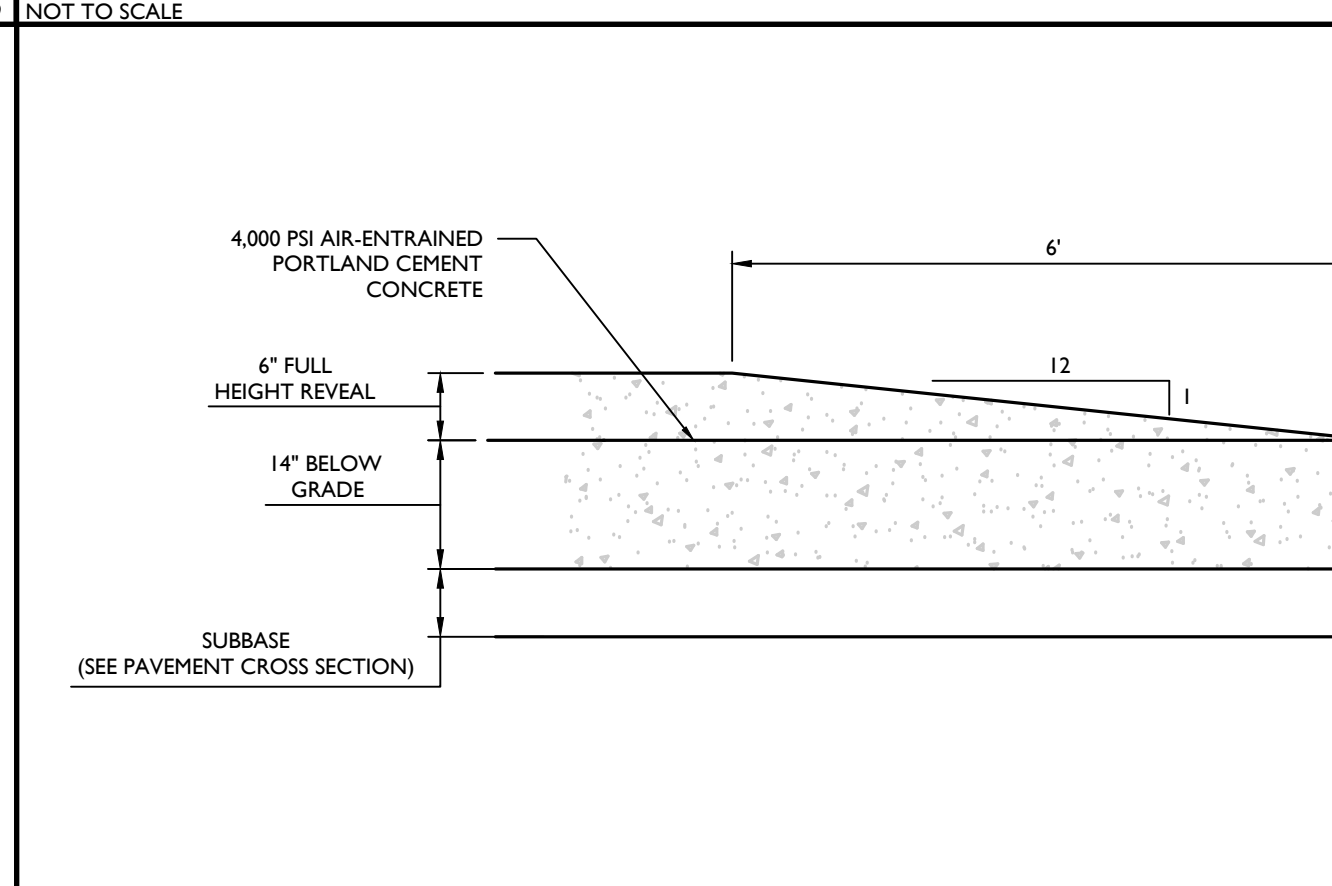
HEAVY-DUTY ASPHALT PAVEMENT DETAIL
MCNY-SITE-PMT-1100

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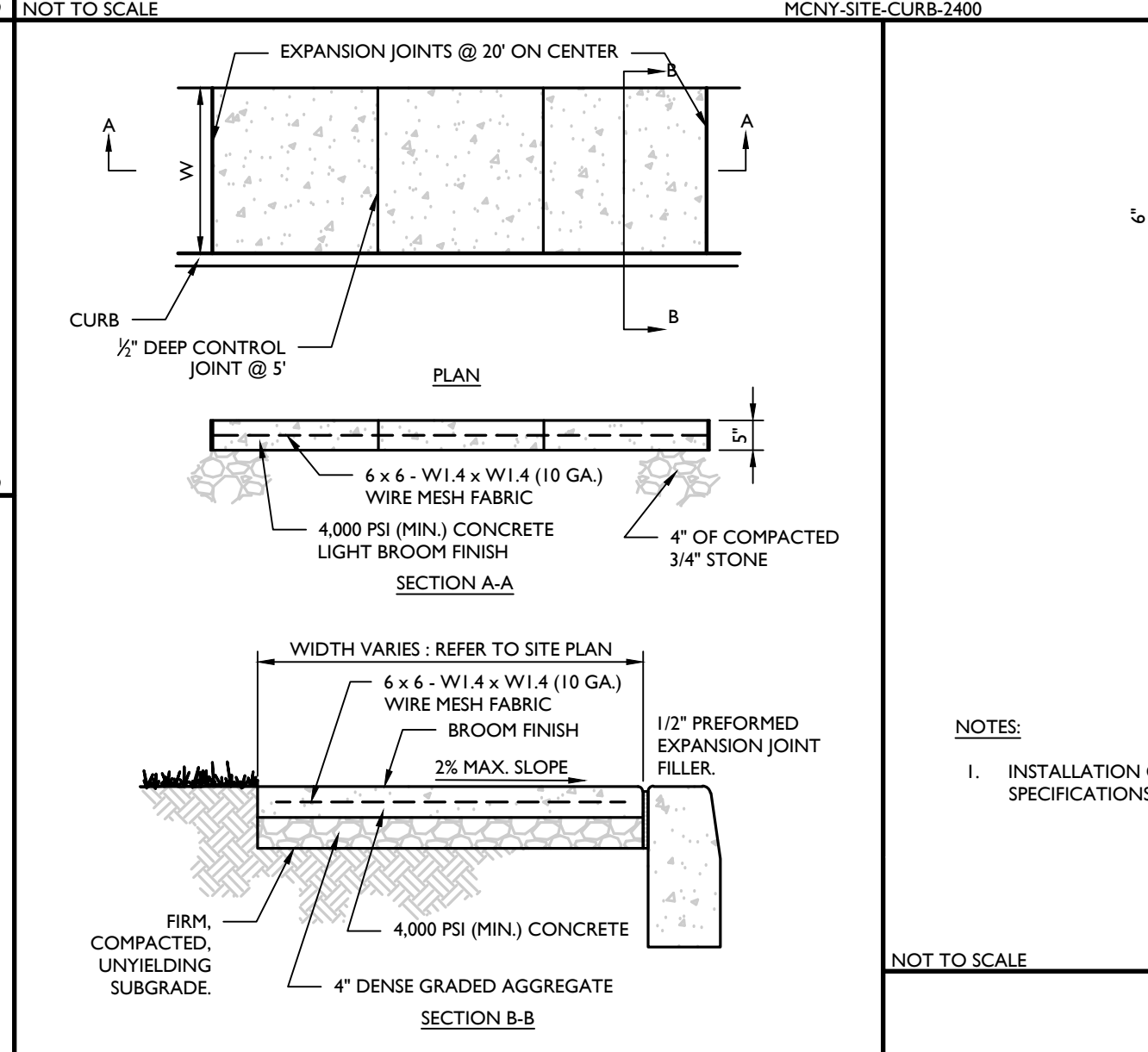
DETECTABLE WARNING SURFACE DETAIL
MCNY-SITE-HADA-2100

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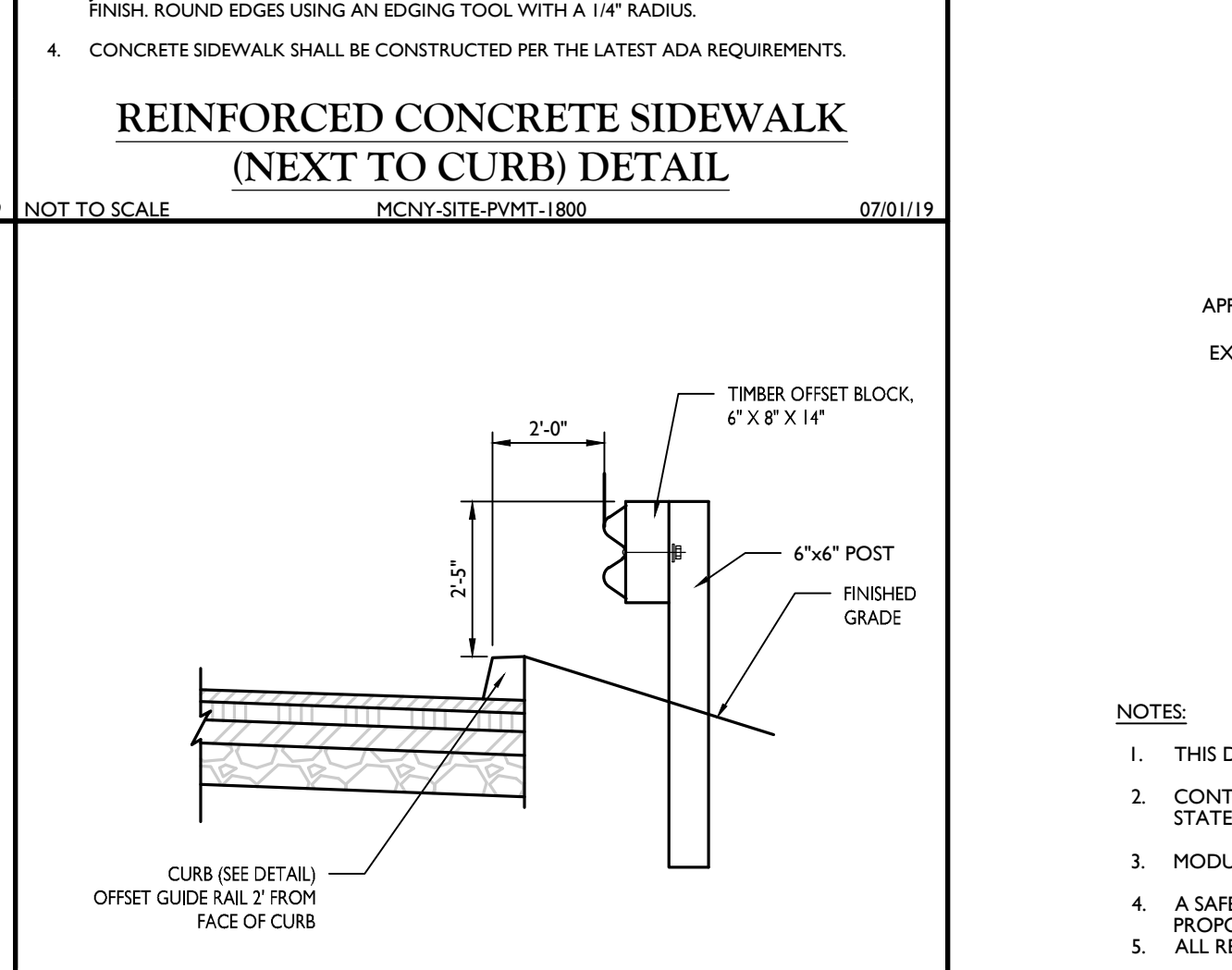
TERMINAL CURB DETAIL
MCNY-SITE-CURB-2400

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BOX BEAM GUIDE RAIL DETAIL
MCCH-SITE-PNCE-2700

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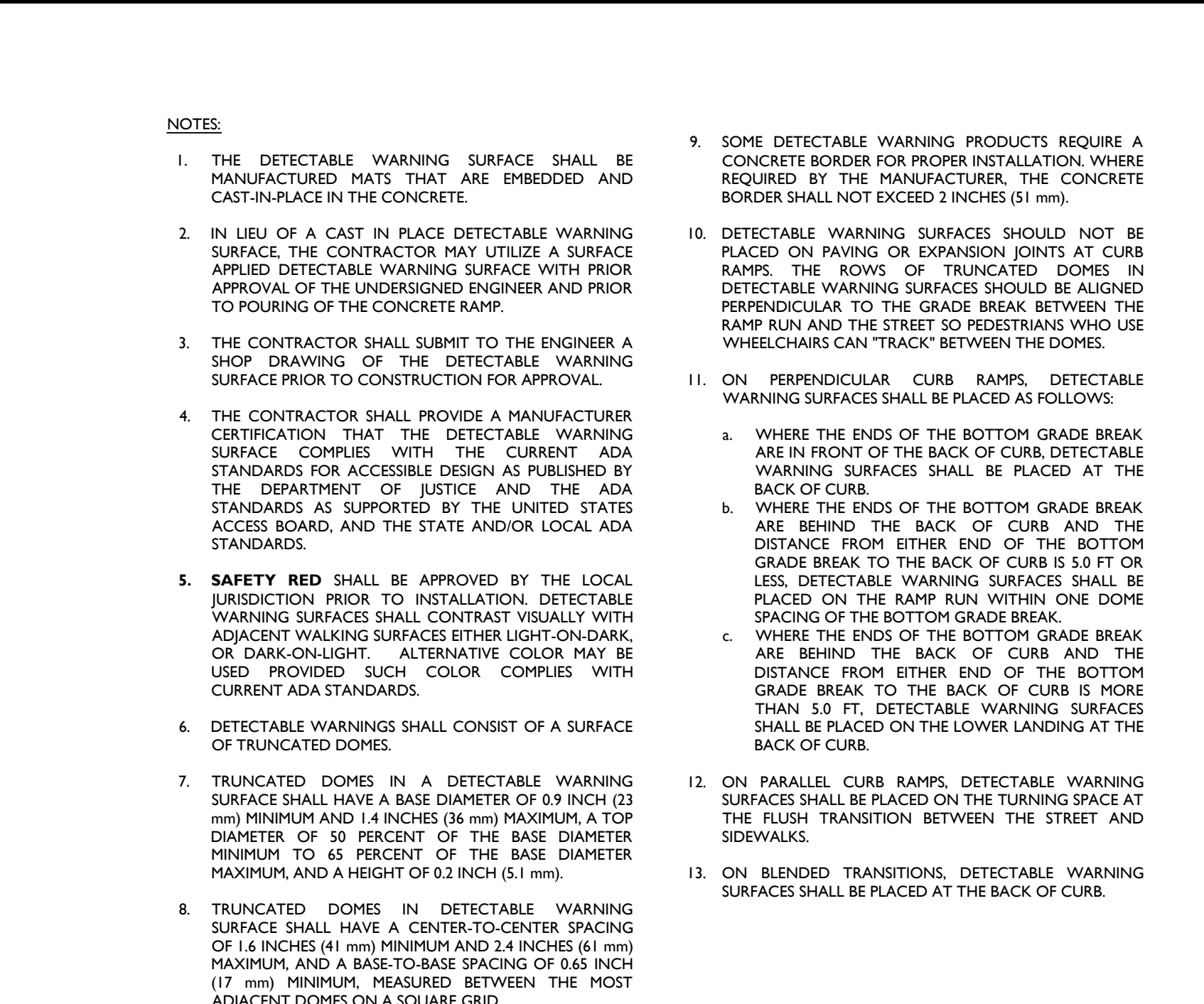
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MCNY-SITE-PMT-1800

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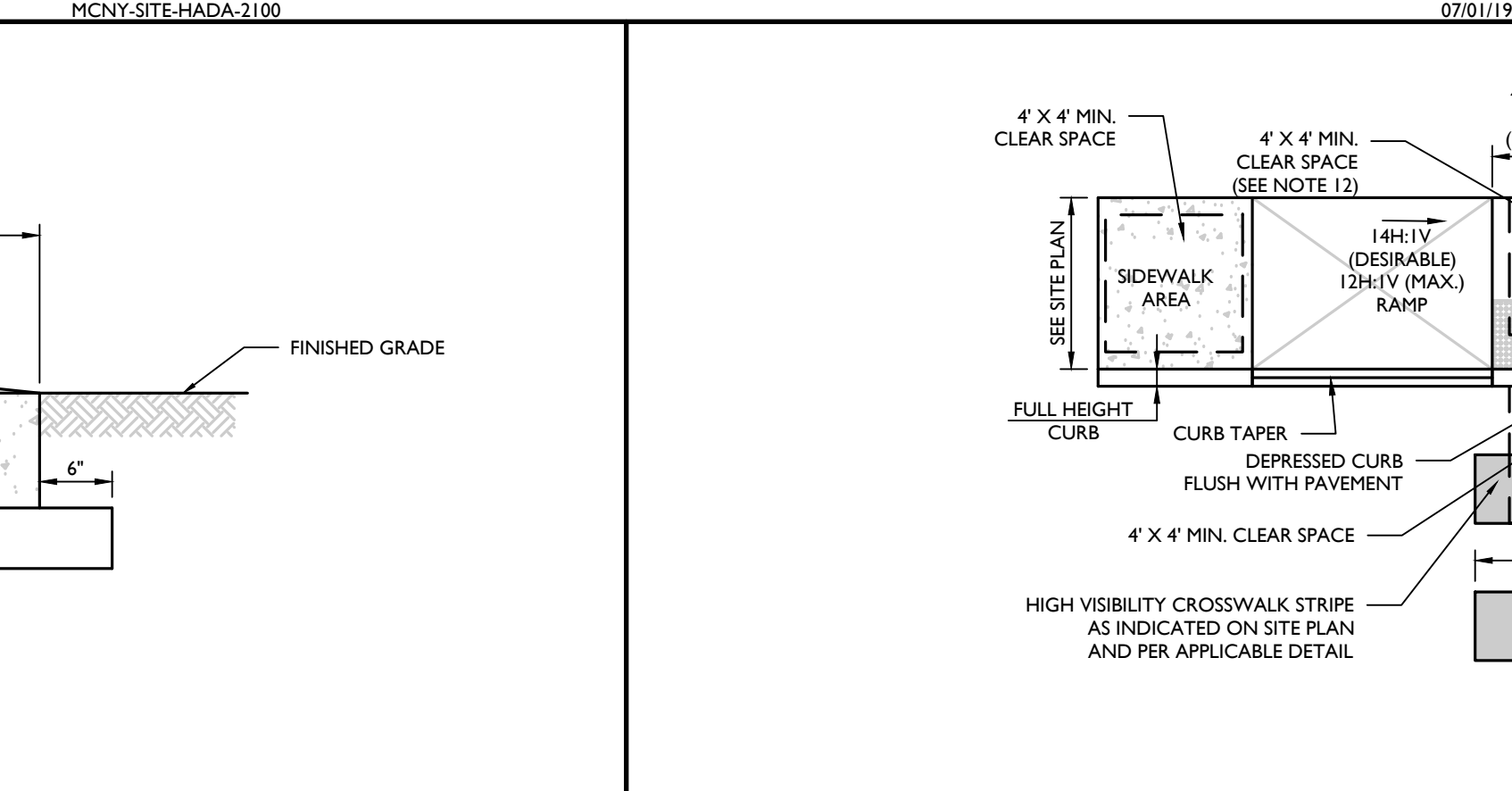
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NOT TO SCALE 07/01/19



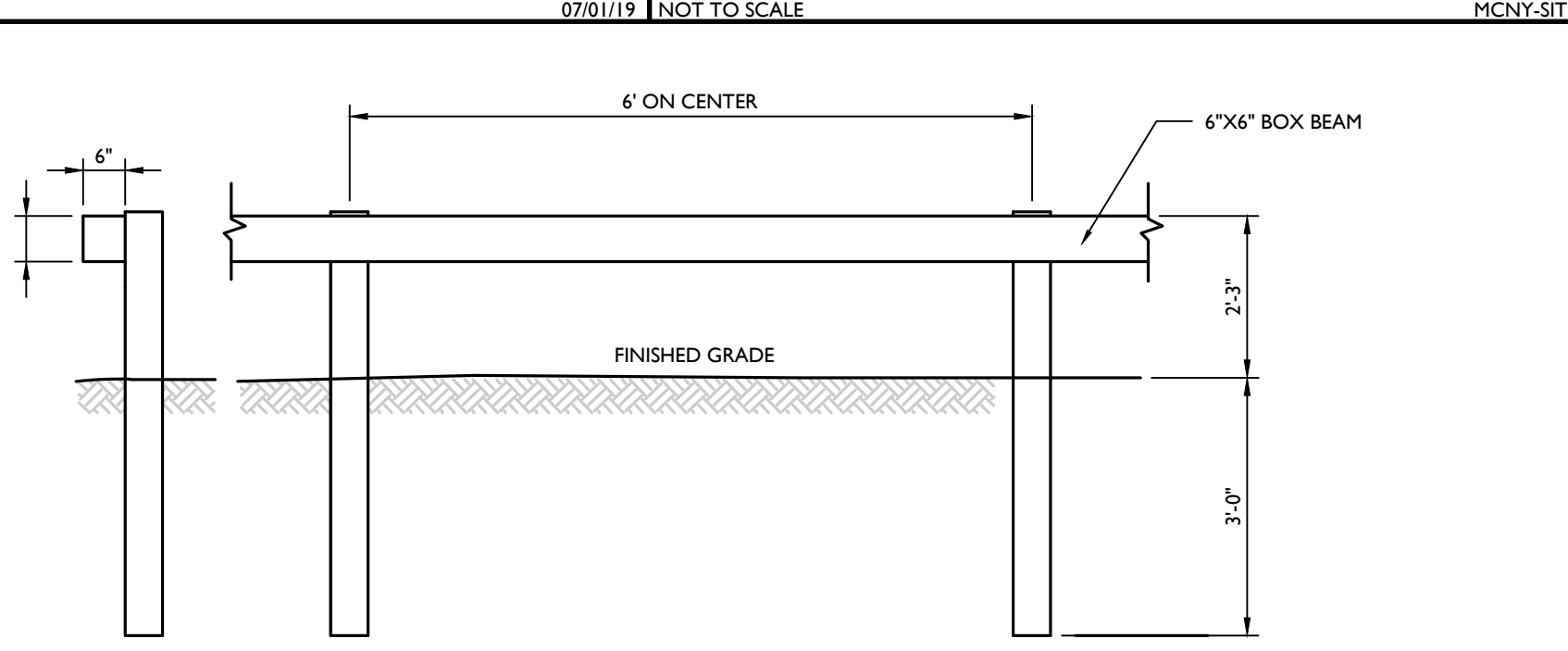
TYPICAL REINFORCED WALL SECTION (NEAR VERTICAL SETBACK) DETAIL
MCCH-SITE-WALL-1101

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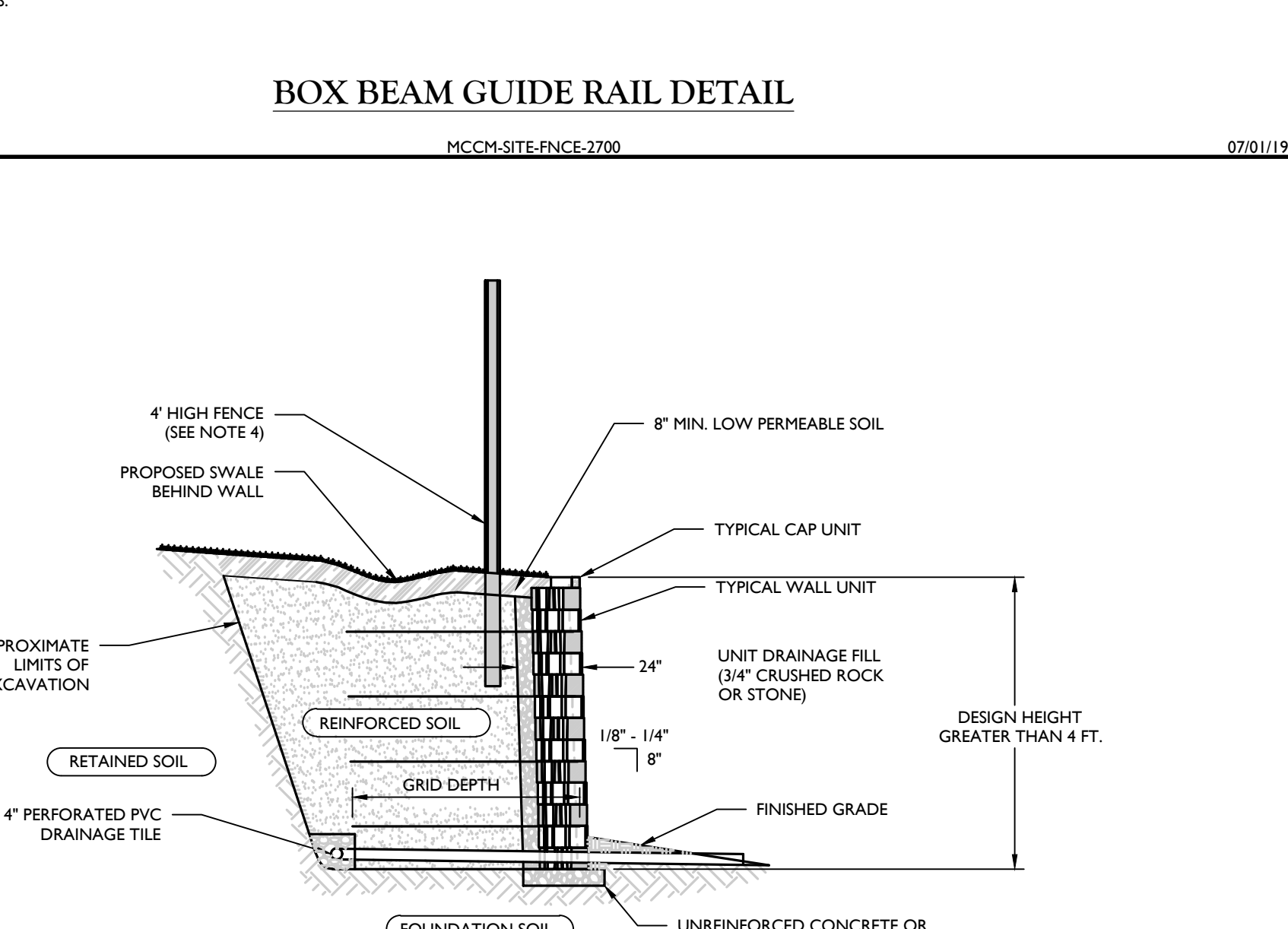
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MCNY-SITE-HADA-1600

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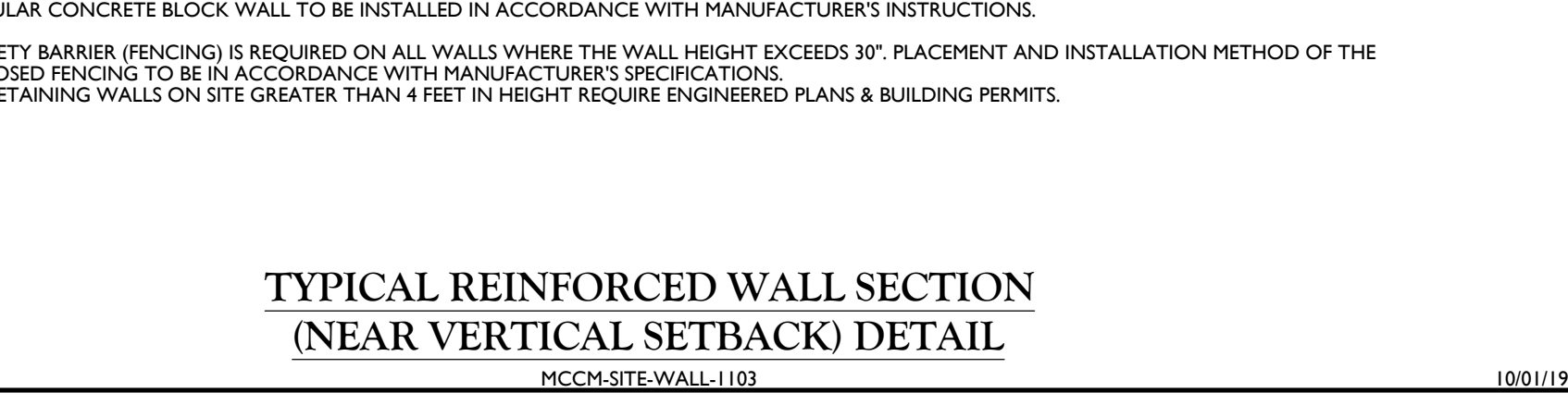
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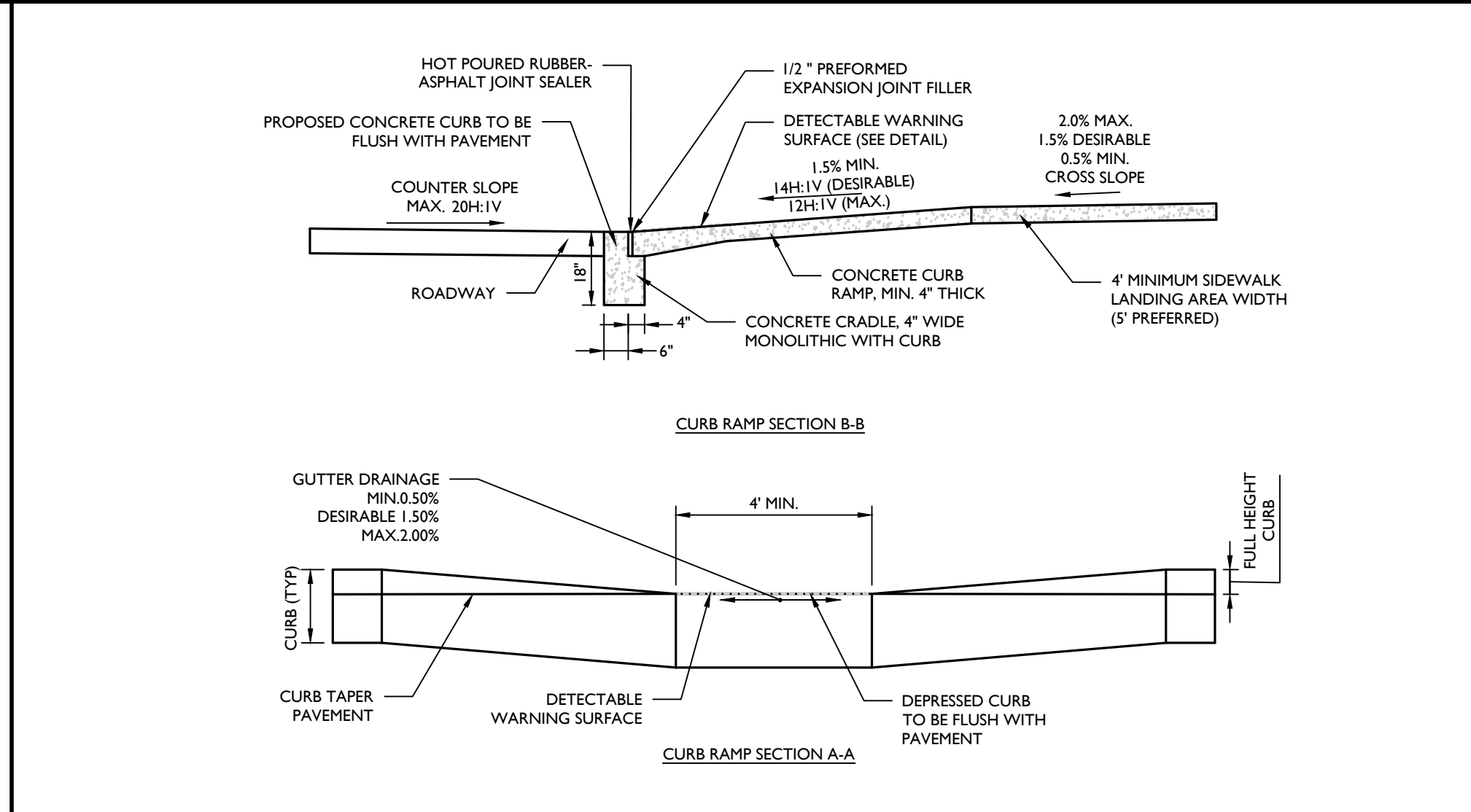
CONCRETE MOUNTABLE CURB DETAIL
MCNY-SITE-CURB-1301

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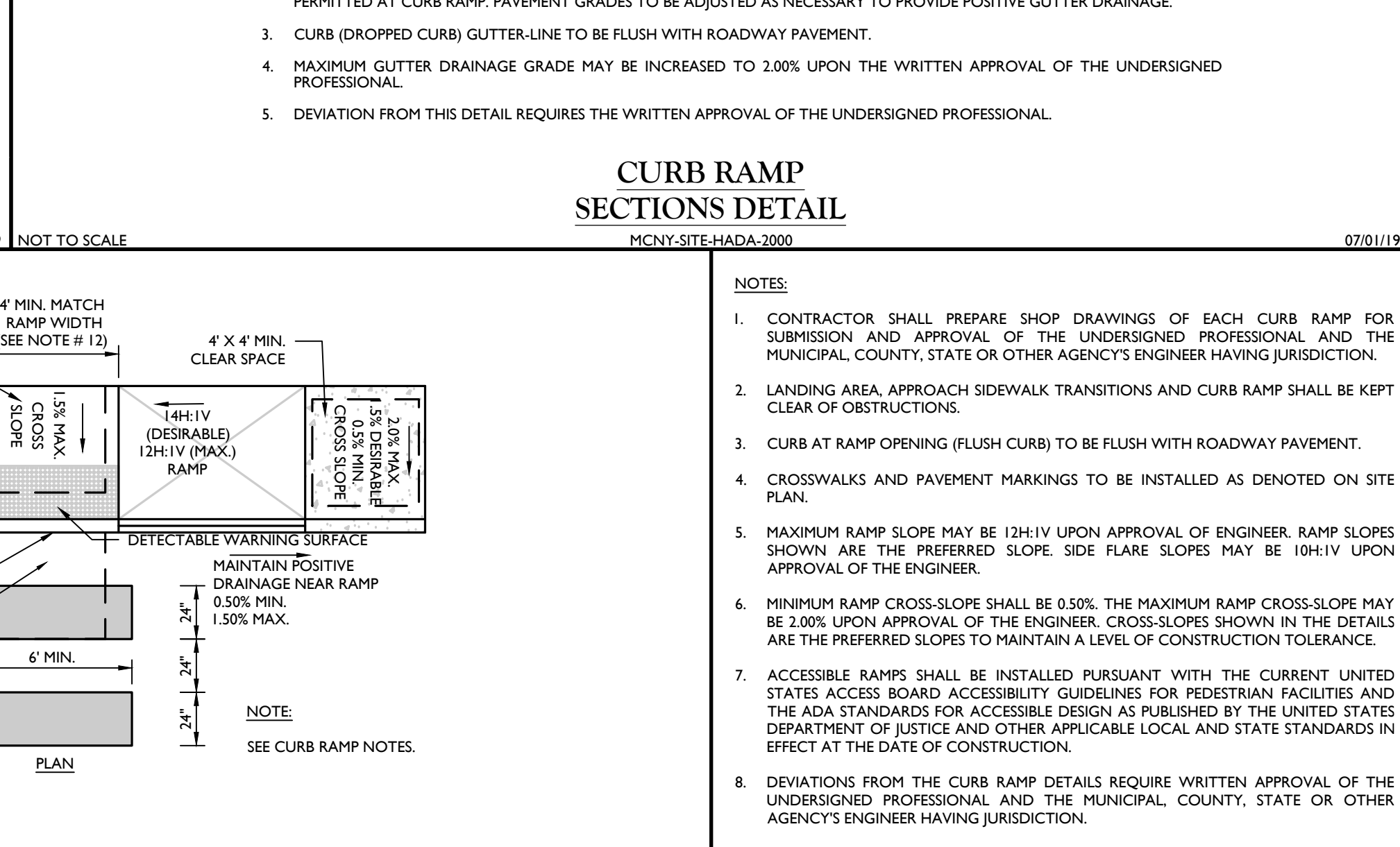
TRUCK DOCK/DOLLY PAD CONCRETE SECTION DETAIL
GNBL-DTLS-STND-GRID

NOT TO SCALE 07/01/19



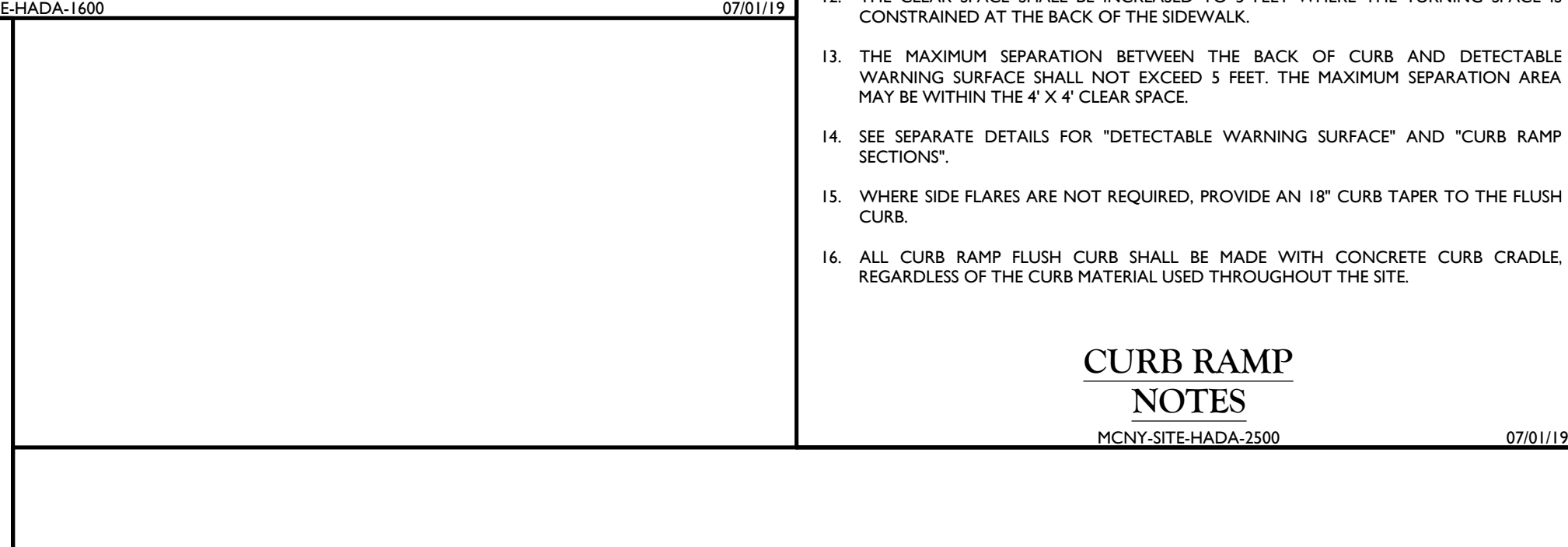
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MCNY-SITE-HADA-2000

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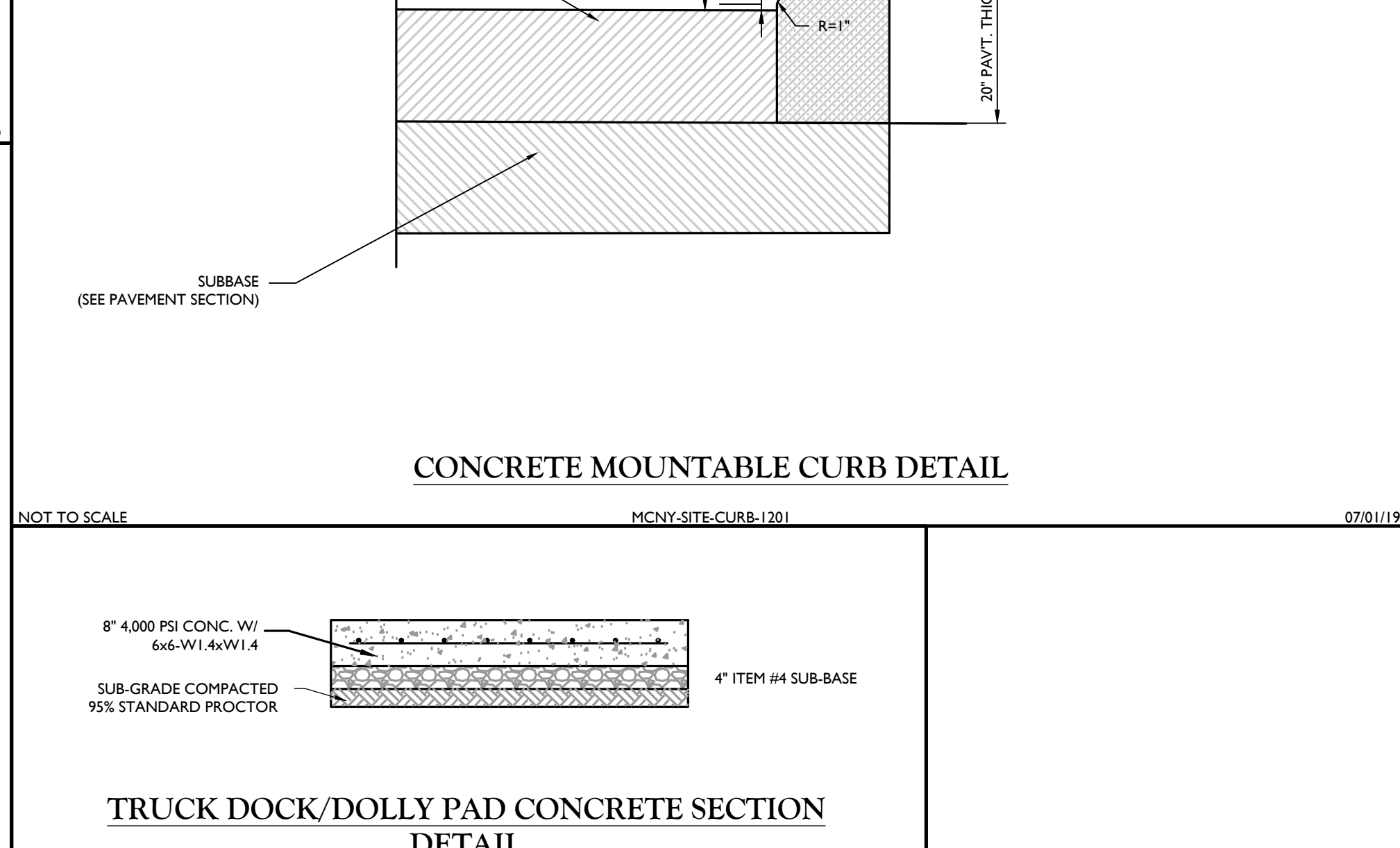
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CURB RAMP NOTES
MCNY-SITE-HADA-2500

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CONCRETE MOUNTABLE CURB DETAIL
MCNY-SITE-CURB-1301

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TRUCK DOCK/DOLLY PAD CONCRETE SECTION DETAIL
GNBL-DTLS-STND-GRID

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1	6/8/2021	REVISED PER TOWN & CONSULTANT COMMENTS AND STORMWATER TESTINGS	CDR						
2	8/2/2021	REVISED PER PLANNING BOARD COMMENTS	CDR						

PRELIMINARY SITE PLAN

FOR

RDM GROUP

COUNTY ROAD 56

SECTION 12

BLOCK 1

LOT 2.2

TOWN OF WAWAYANDA

ORANGE COUNTY

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Engineering & Design

555 Hudson Valley Avenue

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New Windsor, NY 12553

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JED

PROJECT NUMBER:

20003236A

DRAWING NAME:

C-0115

SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER:

17 of 22

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BIORETENTION SYSTEM CROSS SECTION DETAIL

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Andrew B. Fetherston
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LICENSE NUMBER: 073555-01
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.Y. C.O.A #: 0017609

PRELIMINARY SITE PLAN

FOR
RDM GROUP
COUNTY ROAD 56

SECTION 12
BLOCK 1
LOT 2.2

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ORANGE COUNTY
NEW YORK STATE

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PROJECT NUMBER: 20003236A		DRAWING NAME: C-DTLS	

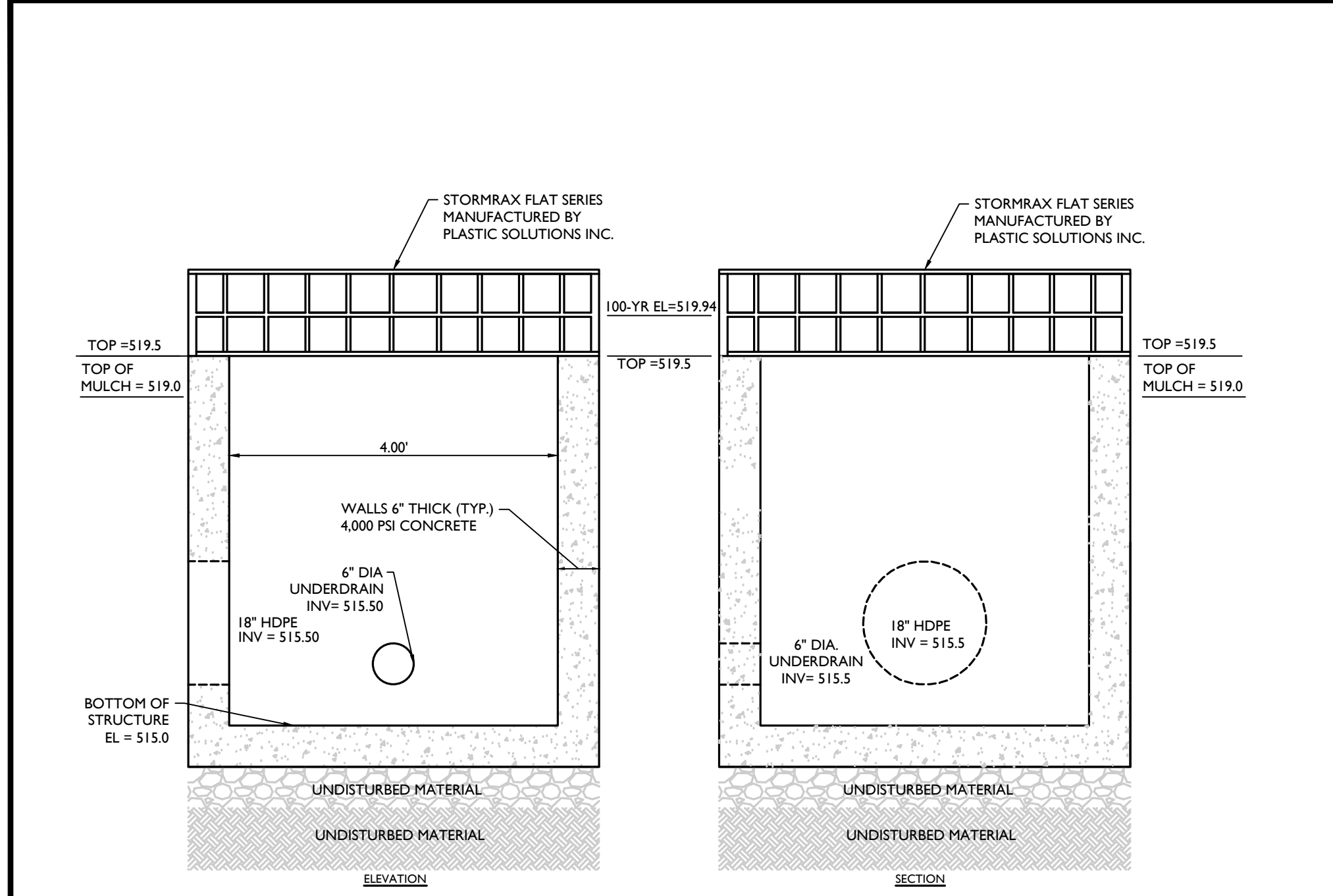
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CONSTRUCTION DETAILS

SHEET NUMBER:

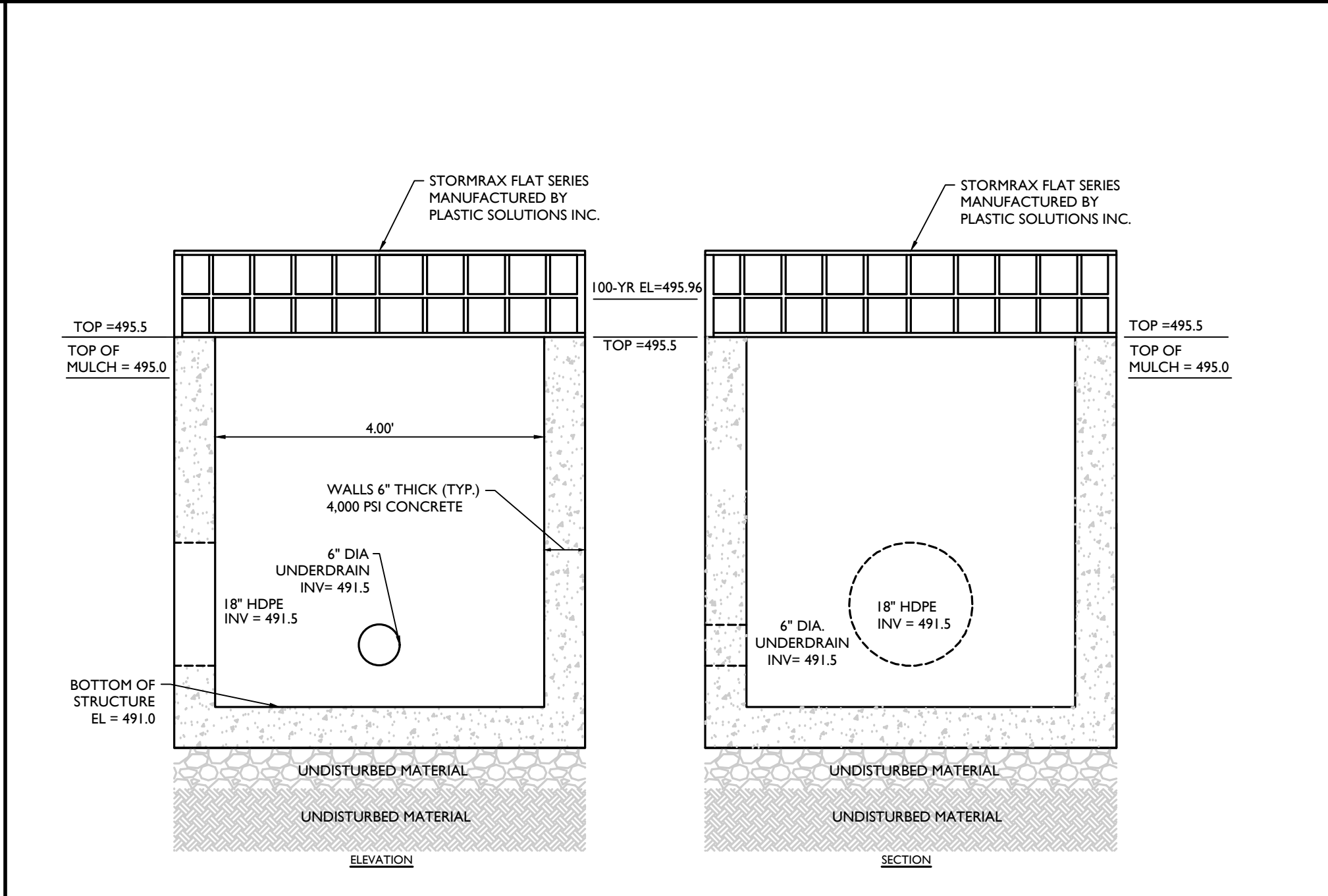
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TOWN OF WAWAYANDA
PLANNING BOARD



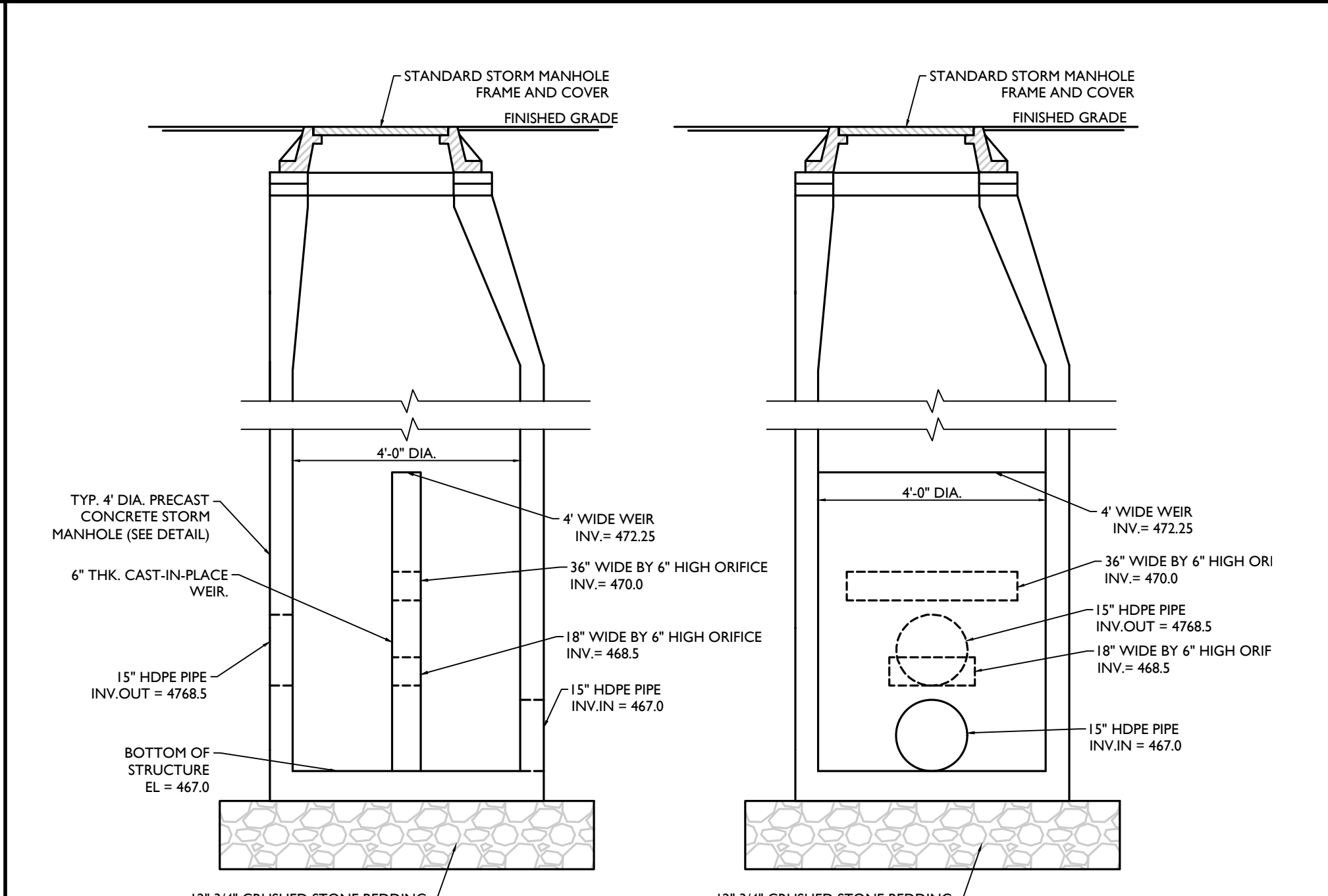
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STRUCTURE (OCS-BIO 1) DETAIL

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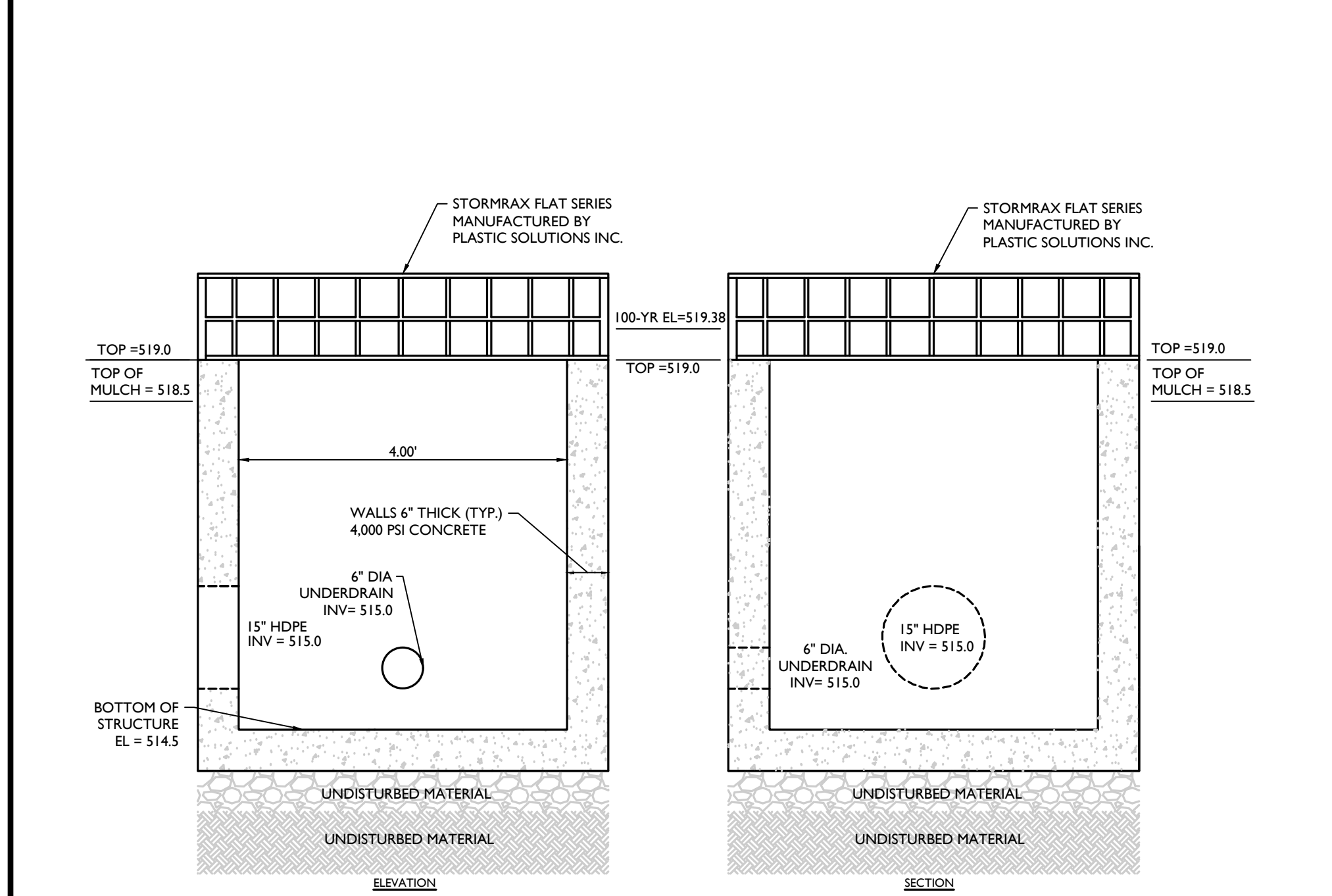
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STRUCTURE (OCS-BIO 4) DETAIL

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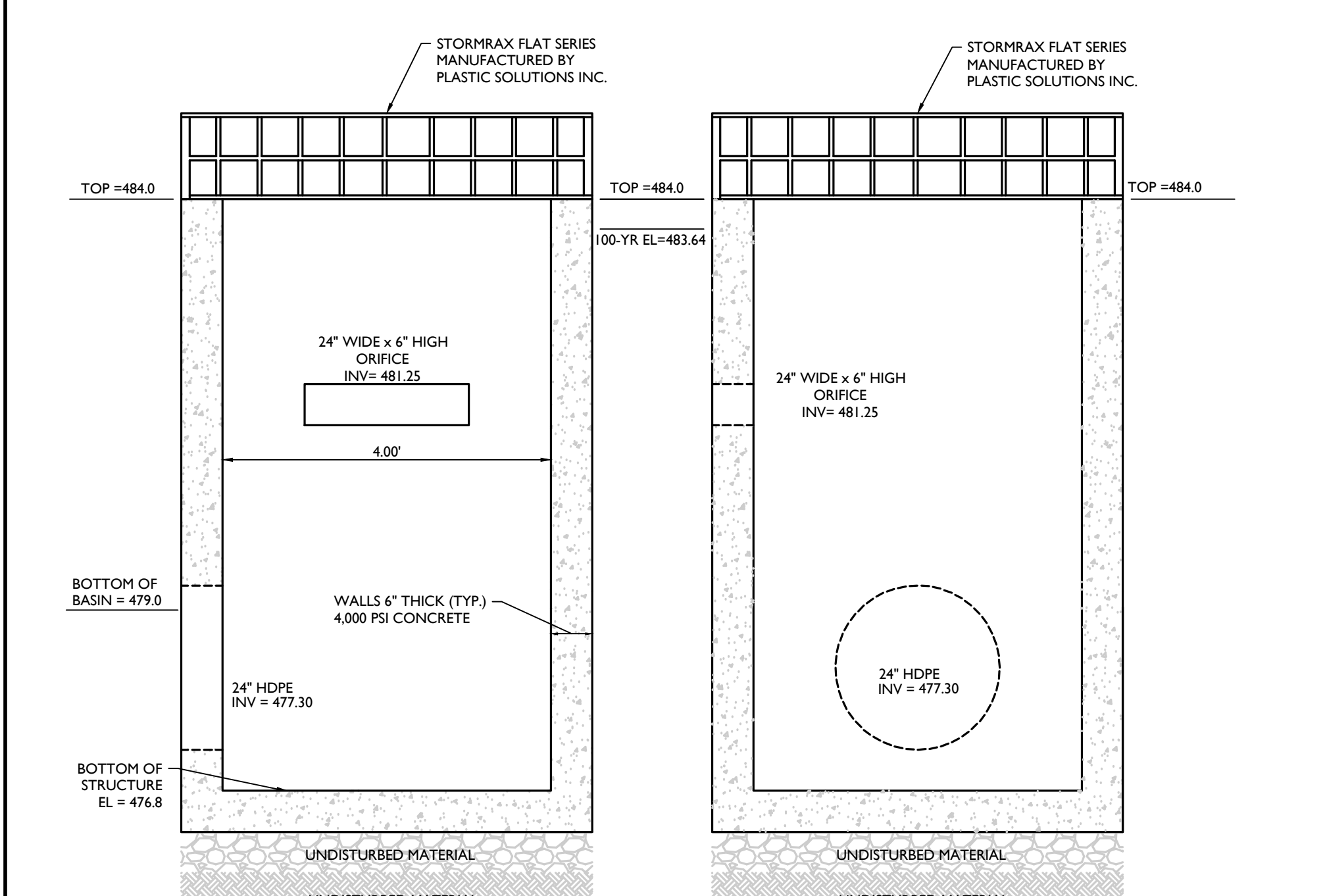
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STRUCTURE (OCS-SUB) DETAIL

MOD: 09/25/20 07/01/19



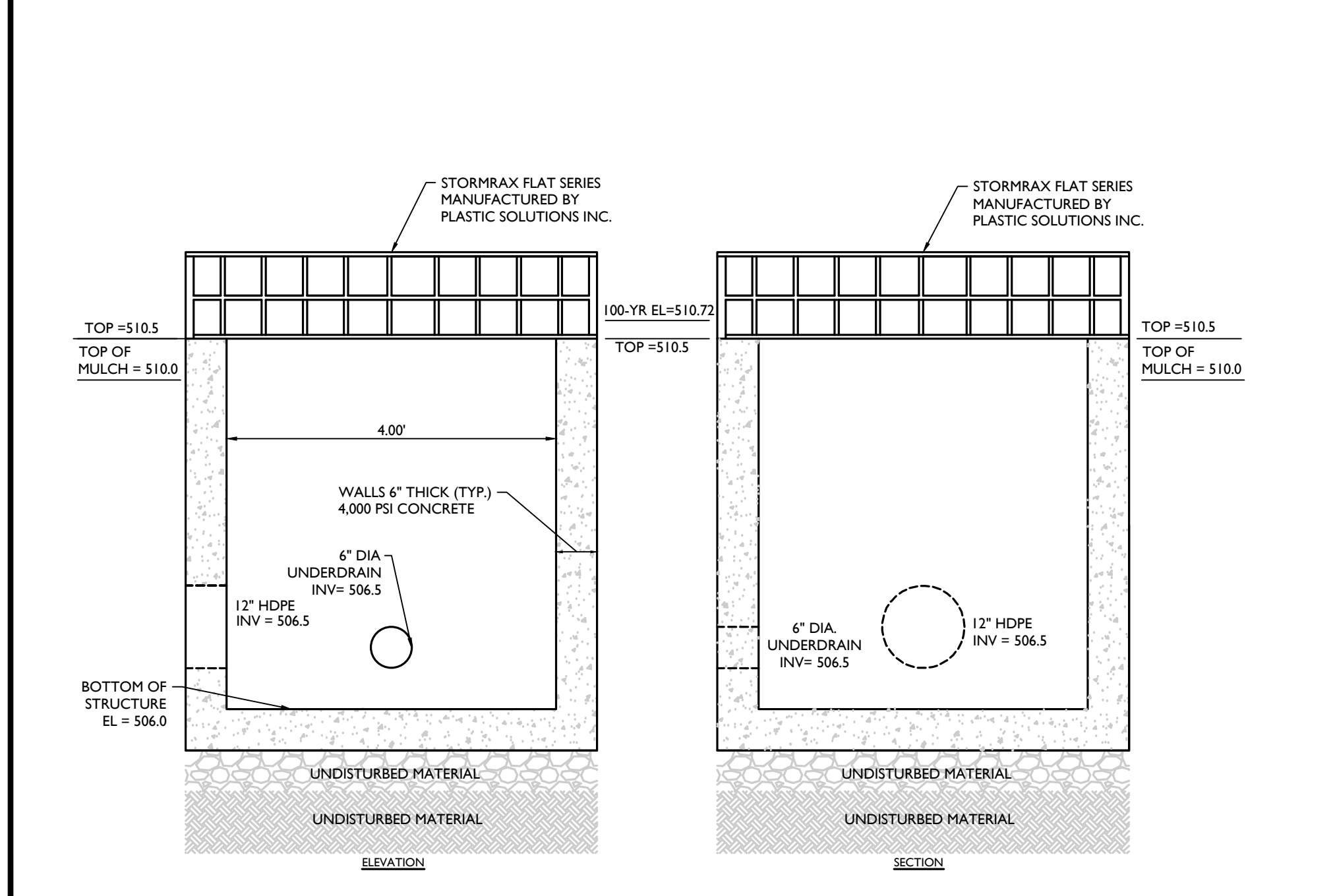
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STRUCTURE (OCS-BIO 2) DETAIL

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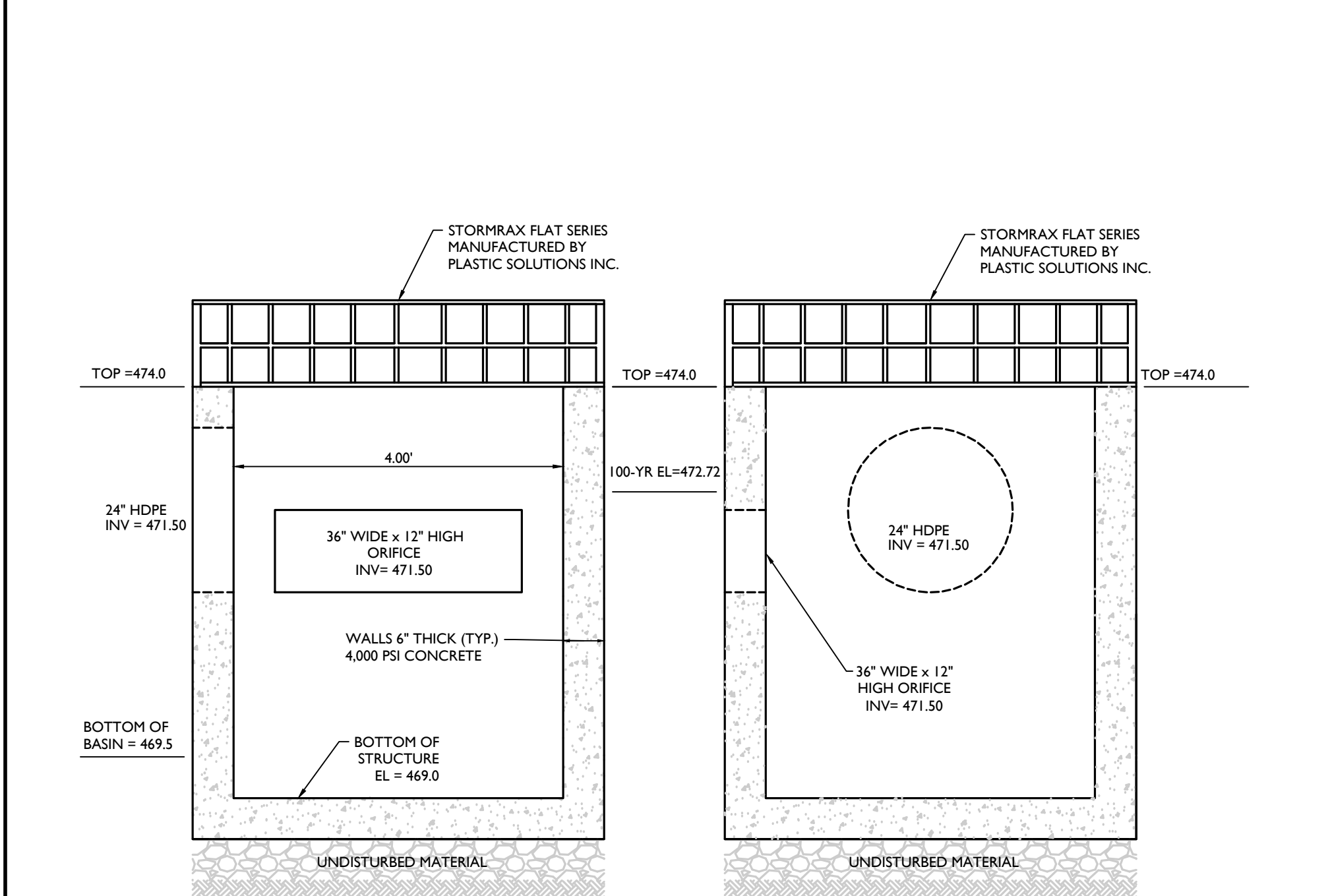
INFILTRATION BASIN POND-INFIL WEST OUTLET CONTROL
STRUCTURE (OCS-INFIL WEST) DETAIL

MOD: 09/25/20 07/01/19



BIORETENTION BASIN POND-3 OUTLET CONTROL
STRUCTURE (OCS-BIO 3) DETAIL

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INFILTRATION BASIN POND-INFIL EAST OUTLET CONTROL
STRUCTURE (OCS-INFIL EAST) DETAIL

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1	8/8/2021	REVISED PRETOWN & CONSULTANT COMMENTS AND STORMWATER TREATING			
2	8/8/2021	REVISED PER PLANNING BOARD COMMENTS			

Seal of the State of New York

Andrew B. Fetherston

Digitally signed by Andrew B. Fetherston Date: 2021.08.23 14:27:49 -0400

Andrew B. Fetherston
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N.Y. C.O.A.#: 9017609

PRELIMINARY SITE PLAN
FOR
RDM GROUP
COUNTY ROAD 56
SECTION 12
BLOCK 1
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TOWN OF WAWAYANDA
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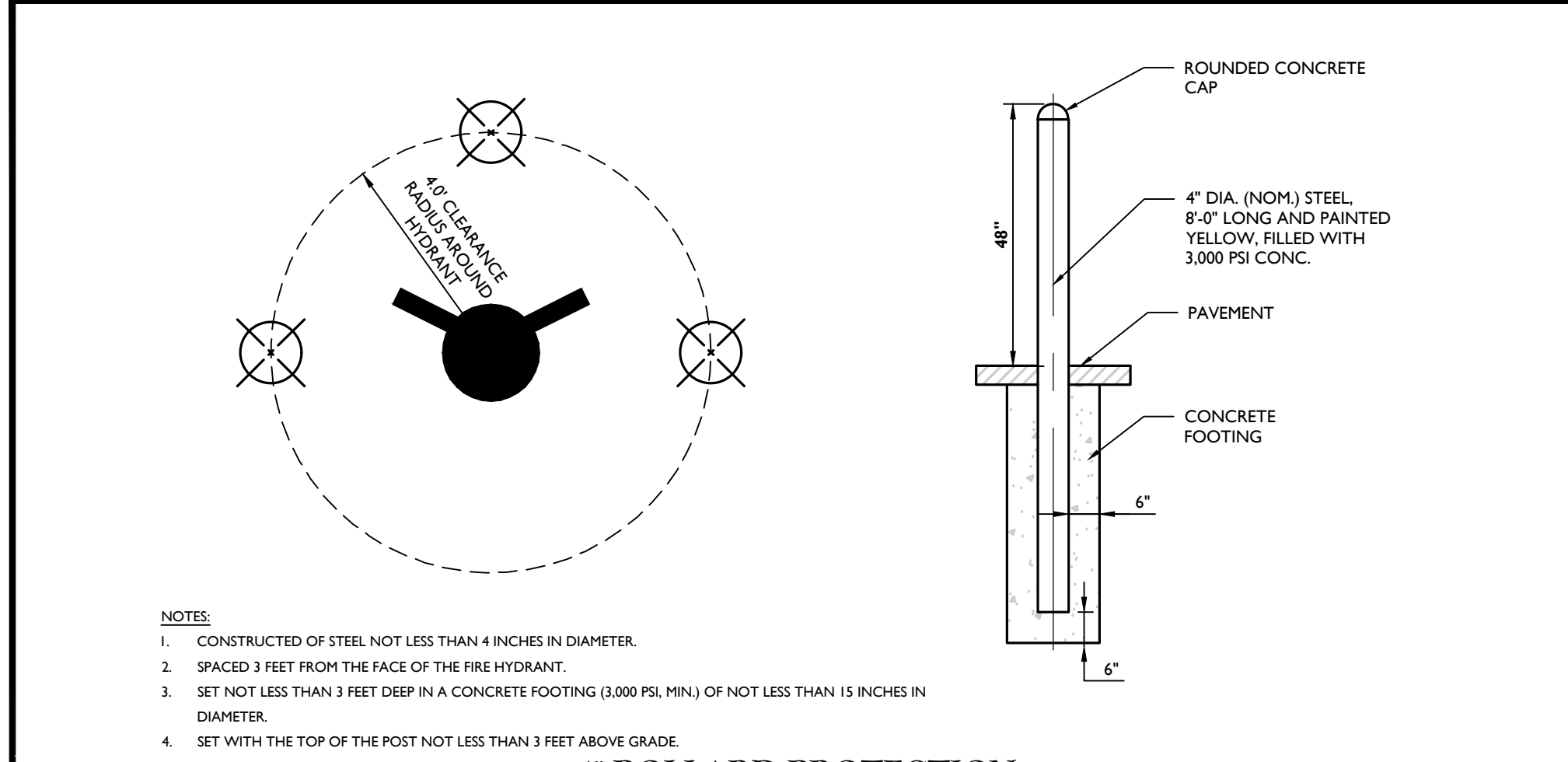
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20003236A	C-0115

SHEET TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER:
19 of 22

TOWN OF WAWAYANDA
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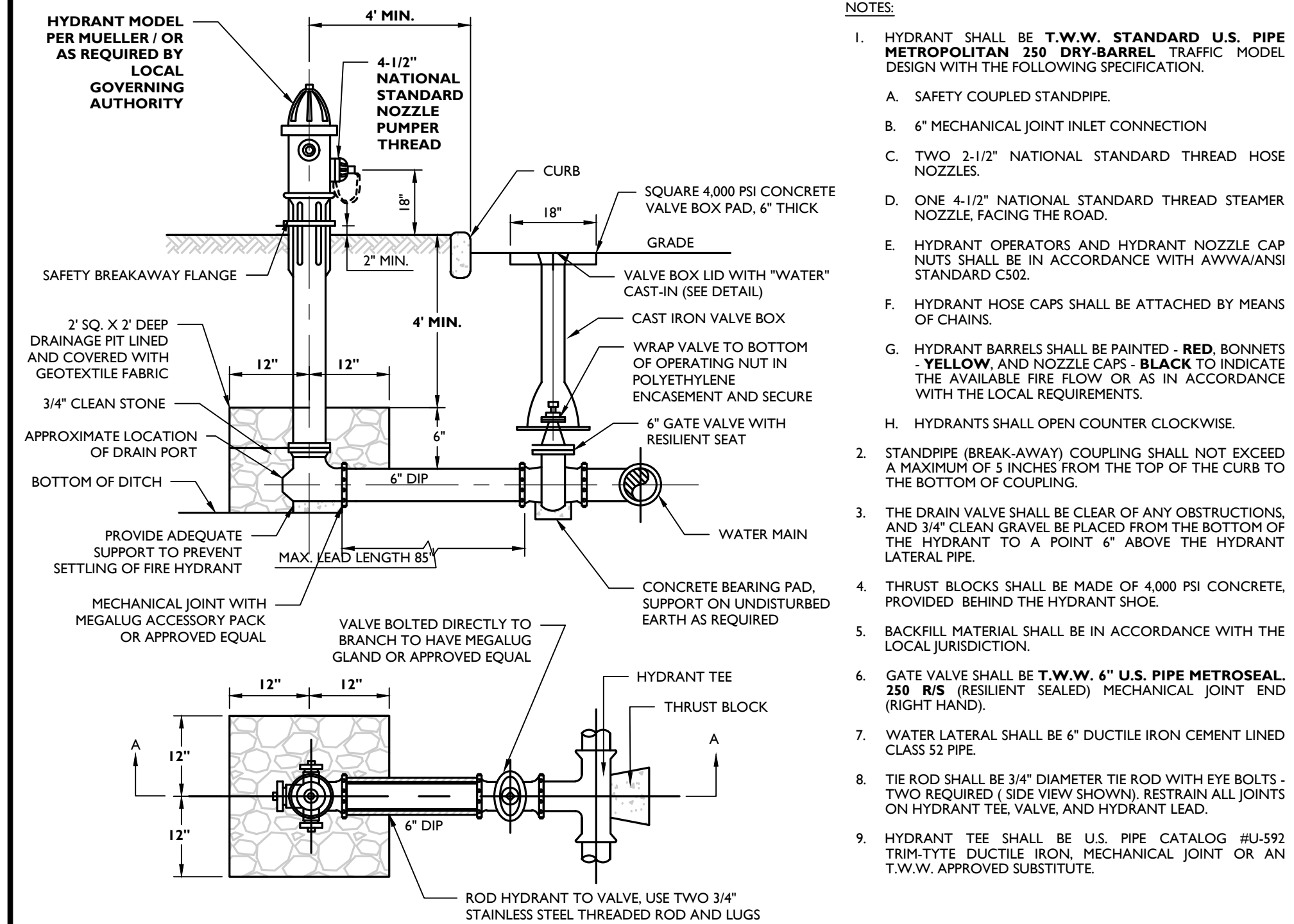


4" BOLLARD PROTECTION AROUND HYDRANT DETAIL

NOT TO SCALE

MCNY-UTIL-WATR-2400

07/01/19

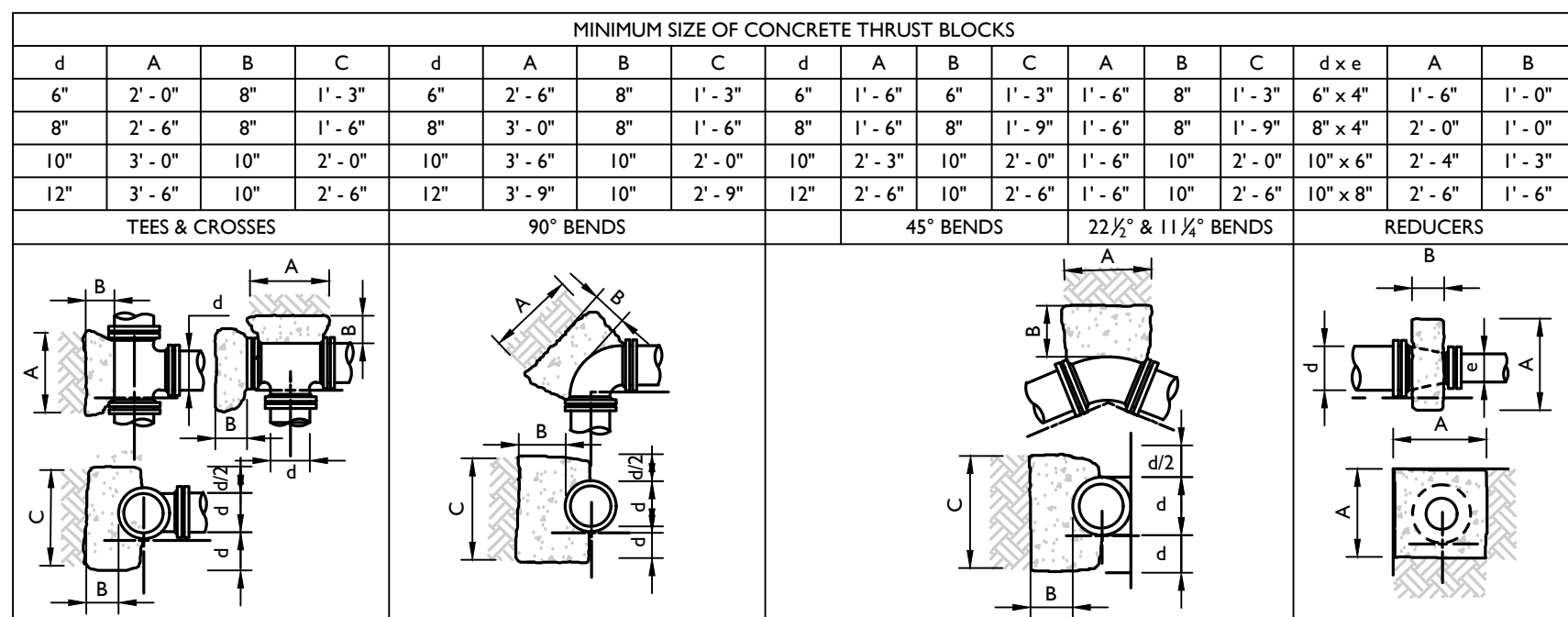


FIRE HYDRANT (VALVE IN PAVEMENT) DETAIL

NOT TO SCALE

MCNY-UTIL-WATR-1001

07/01/19



NOTES:

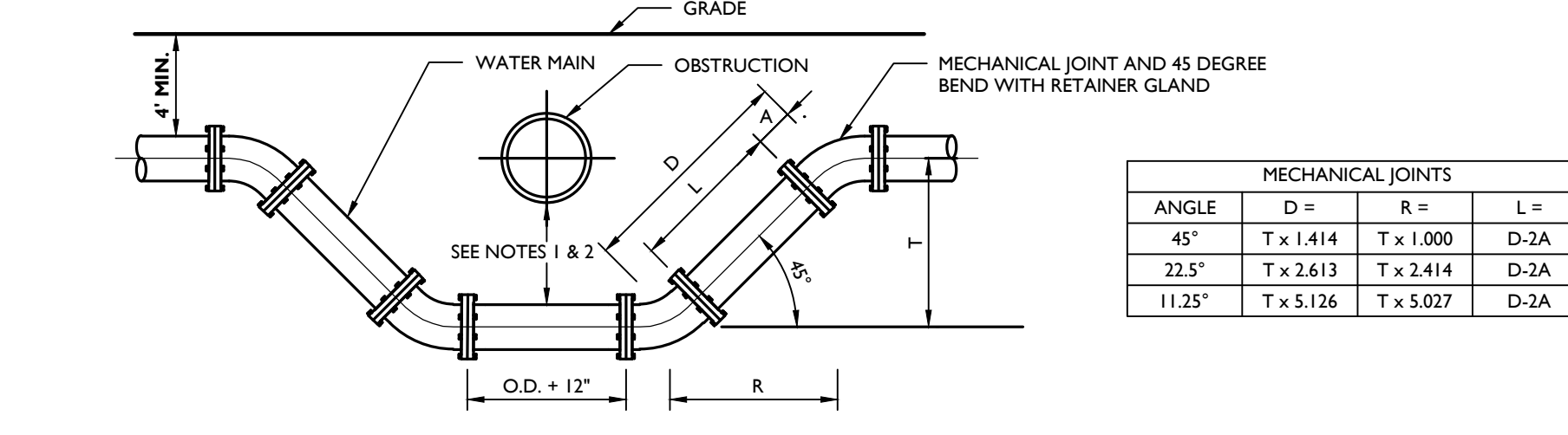
- ALL HORIZONTAL BENDS SHALL HAVE CONCRETE THRUST BLOCKS WITH MINIMUM BEARING AREAS AGAINST UNDISTURBED SOIL AND NO JOINT SHALL BE COVERED WITH CONCRETE.
- BEARING AREAS ARE BASED UPON UNDISTURBED SOIL WITH A MINIMUM BEARING CAPACITY OF 0.5 TONS PER SQUARE FOOT. FOR A LESSER SOIL BEARING CAPACITY THESE AREAS SHALL BE INCREASED ACCORDINGLY.
- THRUST BLOCKS SHALL BE POURED DIRECTLY AGAINST TRENCH WALLS AND SHALL BE 4,000 PSI CONCRETE.
- DETAILS FOR SUPPORTS AND BRACING FOR VERTICAL BENDS FOR 12" DIAMETER OR LARGER SHALL BE APPROVED BY THE AUTHORITY PRIOR TO CONSTRUCTION.

THRUST BLOCKS DETAIL

NOT TO SCALE

MCNY-UTIL-WATR-1400

07/01/19



MECHANICAL JOINTS			
ANGLE	D =	R =	L =
45°	T x 1.414	T x 1.000	D-2A
22.5°	T x 2.613	T x 2.414	D-2A
11.25°	T x 5.126	T x 5.027	D-2A

NOTES:

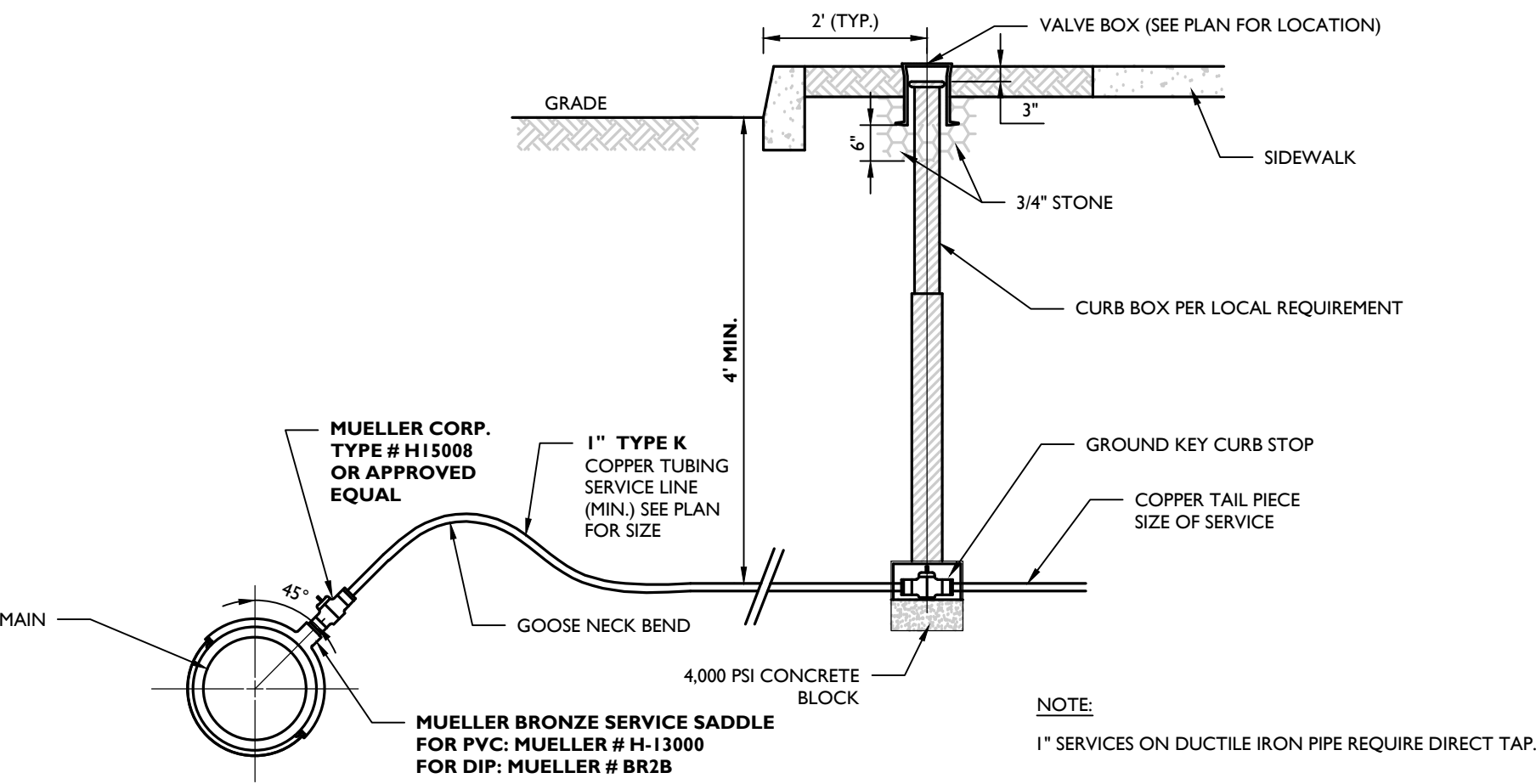
- WATER MAIN MAY CROSS ABOVE OBSTRUCTION IF 4" MINIMUM COVER IS MAINTAINED ABOVE THE WATER MAIN AND FINISH GRADE.
- MINIMUM VERTICAL SEPARATION BETWEEN SANITARY OR STORM SEWER TO WATER MAIN SHALL BE 18" IF THE HORIZONTAL SEPARATION IS LESS THAN 10'. BETWEEN WATER MAIN AND OTHER UTILITIES, THE MINIMUM VERTICAL SEPARATION SHALL BE 12".
- WATER MAIN SHALL BE SIZE AND MATERIAL SPECIFIED ON THE PLAN, WITH MECHANICAL JOINT OR PUSH-ON AND ALL FITTINGS BE CAST IRON MECHANICALLY JOINT.
- OFFSETS MAY BE SUBSTITUTED FOR A 1" OF UP TO 24" IF APPROVED BY THE ENGINEER.
- CONCRETE THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS OR OTHER POINTS OF PIPE DIRECTION CHANGE.
- TIE RODS SHALL BE UTILIZED TO RESTRAIN PIPE JOINTS IF THRUST BLOCK IS NOT USED. DETAILS OF THE TIE ROD ASSEMBLY SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. TIE RODS SHALL BE SUFFICIENT TO RESTRAIN THE THRUST DEVELOPED AT 100 PSI WORKING PRESSURE. REGULAR RESTRAINT ALSO ACCEPTABLE IN PLACE OF TIE RODS.

WATER CROSSING UNDER UTILITY DETAIL

NOT TO SCALE

MCNY-UTIL-WATR-1300

07/01/19



WATER SERVICE CONNECTION DETAIL

NOT TO SCALE

MCNY-UTIL-WATR-1100

07/01/19

NUMBER AND SIZE OF RODS REQUIRED AND PIPE LENGTH IN FEET TO BE RESTRAINED									
PIPE SIZE IN INCHES	90° TEE OR DEAD END PLUG			45° BEND			22 1/2° BEND		
	No.	SIZE	L*	No.	SIZE	L*	No.	SIZE	L*
4	2	3/4"	30"	2	3/4"	10"	2	3/4"	5"
6	2	3/4"	40"	2	3/4"	10"	2	3/4"	5"
8	4 or 2	3/4" or 1"	50"	2	3/4"	15"	2	3/4"	5"
10	4 or 2	3/4" or 1"	60"	2	3/4"	20"	2	3/4"	5"
12	4	3/4"	70"	2	3/4"	20"	2	3/4"	5"
14	4	1"	80"	2	3/4"	25"	2	3/4"	5"
16	4	1"	80"	2	3/4"	25"	2	3/4"	5"

L* = LENGTH OF PIPE TO BE RESTRAINED IS FOR EACH SIDE OF BEND

NOTES:

- USE OF MECHANICAL JOINT RETAINER GLANDS SHALL PROVIDE A THRUST RESTRAINT SYSTEM EQUIVALENT TO THAT LISTED IN THE TABLE FOR CLAMPS AND RODS.
- LENGTHS ARE BASED ON THE FOLLOWING CRITERIA: 150 PSI MAXIMUM PRESSURE AND 7/8" IF COVER. TABLES FOR USE WITH CAST IRON PIPE OR DUCTILE IRON PIPE ONLY. IF TEST CONDITIONS ARE MORE SEVERE OR LARGER PIPES ARE PROPOSED, THEN SPECIAL COMPUTATIONS MUST BE PROVIDED BY LICENSED PROFESSIONAL ENGINEER.

JOINT RESTRAINT SCHEDULE DETAIL

NOT TO SCALE

MCNY-UTIL-WATR-1500

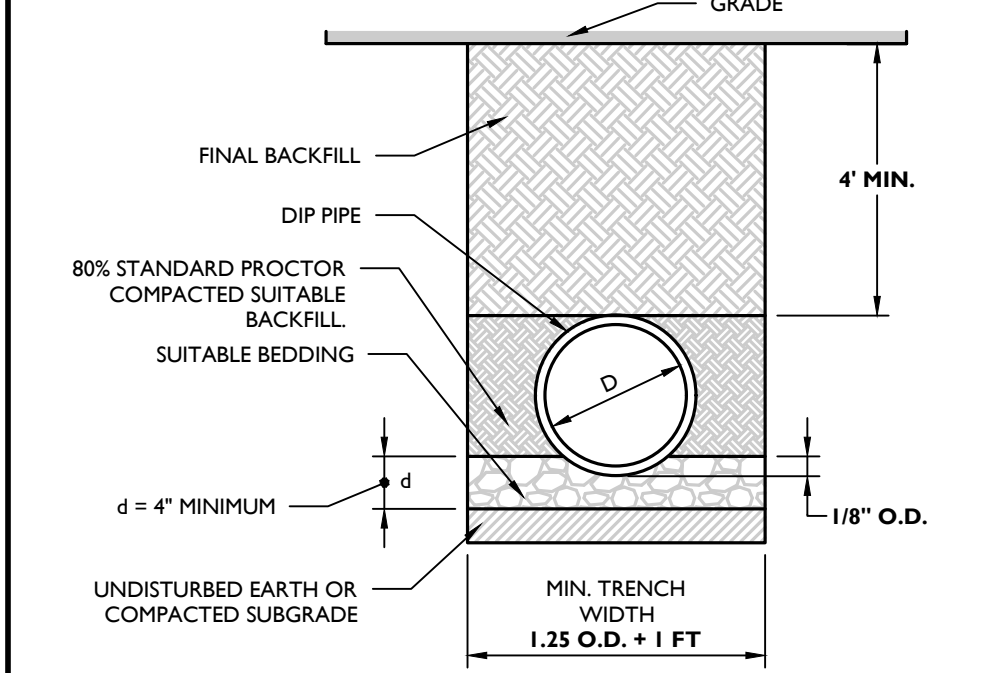
07/01/19

THE TOWN ENGINEER.	
HYDRANTS	CLOW MEDALLION #F345 3" THREE WAY, 2 HOSE NOZZLES AND 1 PUMPER NOZZLE
VALVES	MUELLER TYPE A-2630 RESILIENT WEDGE GATE VALVES, NRS-AWWA C509
CURB STOPS	MUELLER TYPE 300 BALL VALVE, #15209
CORPORATION STOPS	MUELLER #255008
PIPE	AWWA C151, CEMENT MORTAR LINED, THICKNESS CLASS 52, MIN.
TAPPING SLEEVES	MUELLER #H-615, DUCTILE IRON CLASS 250
VALVE BOXES	BINGHAM & TAYLOR SCREW TYPE ADJUSTABLE MODEL, FIGURE #H95-22, WITH EXTENSION WHERE REQUIRED
CURB BOXES	MUELLER EXTENSION TYPE WITH ARCH PATTERN BASE MODEL #H-10314 AND #H-10386, ALL EXTENSION RODS SHALL BE STAINLESS STEEL

NOTE:

ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARDS AND DETAILS OF THE MUNICIPALITY.

LIST OF STANDARD WATER SUPPLY MATERIALS



NOTES:

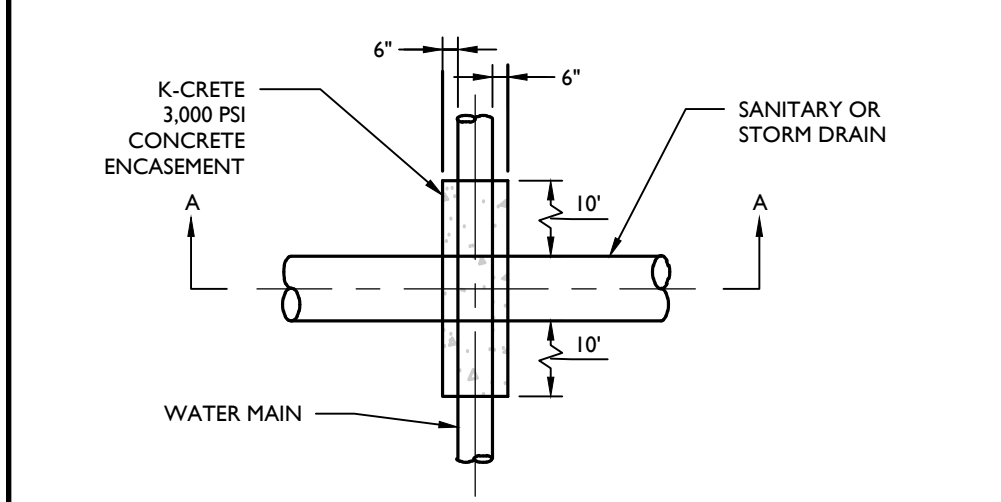
- ALL PIPE SYSTEMS AND BACKFILL SHALL BE INSTALLED IN ACCORDANCE WITH ANSIAWWA C600.
- WATER MAIN PIPE SHALL BE CEMENT LINED DUCTILE IRON PIPE (DIP) PRESSURE CLASS 150, THICKNESS CLASS 52 WITH ASPHALTIC DIP TYPE COATING.
- SUITABLE BACKFILL MATERIAL SHALL BE SAND, GRAVEL, OR 3/4" CRUSHED STONE.

DIP WATER PIPE BEDDING DETAIL

NOT TO SCALE

MCNY-UTIL-WATR-1900

07/01/19

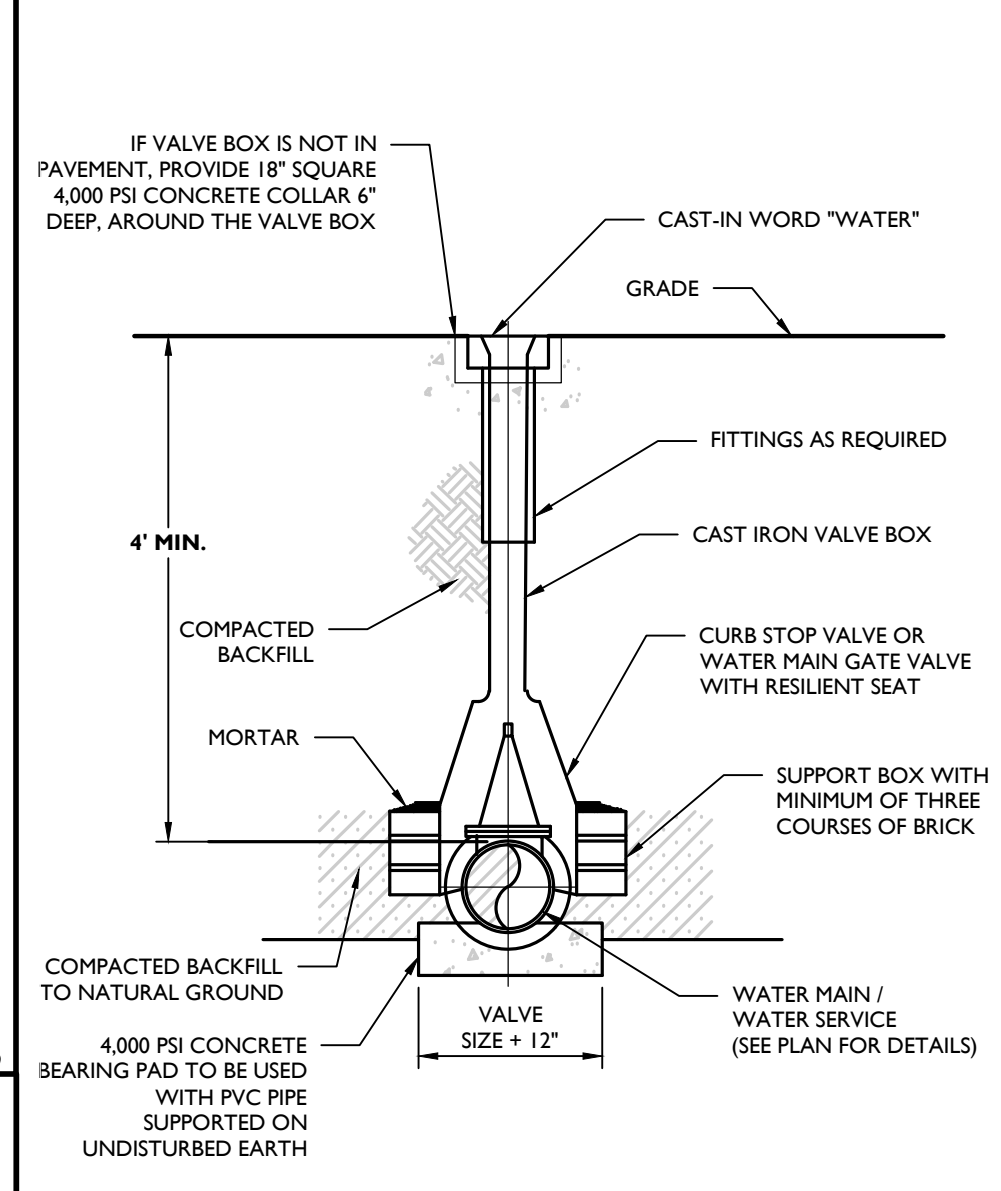


WATER MAIN ENCASEMENT DETAIL

NOT TO SCALE

MCNY-UTIL-WATR-1700

07/01/19



NOTES:

- VALVE BOX SHOULD HAVE EXTENSION IF WATER MAIN OR SERVICE IS PLACED DEEPER THAN 5 FEET.
- CURB STOP VALVE BOX SHALL BE MUELLER EXTENSION TYPE WITH ARCH PATTERN BASE OR APPROVED EQUAL.
- WATER MAIN VALVE BOX SHALL BE SCREW TYPE ADJUSTABLE MODEL, FIGURE # 4965-22 AS MANUFACTURED BY BINGHAM & TAYLOR OR APPROVED EQUAL.

WATER VALVE BOX DETAIL

NOT TO SCALE

MCNY-UTIL-WATR-1600

07/01/19

WATER NOTES:

- ALL METHODS, MATERIALS, FITTINGS, DEVICES, DIMENSIONAL REQUIREMENTS AND PROCEDURES NECESSARY TO COMPLETE THE WORK SHOWN HEREON SHALL MEET THE APPROPRIATE CURRENT AWWA SPECIFICATIONS IN EFFECT AS WELL AS ALL REQUIREMENTS DEEMED APPLICABLE BY THE MUNICIPALITY OR ANY OTHER GOVERNMENTAL BODY HAVING JURISDICTION OVER SAID WORK.
- ALL WATER MAIN PIPE SHALL BE AWWA C151/A21.51-02 THICKNESS CLASS FIFTY-TWO (52) CEMENT LINED DUCTILE IRON PUSH-ON (RUBBER GASKET) TYPE, AND INSTALLED WITH THREE (3) BRONZE WEDGES PER JOINT. JOINT INSTALLATION SHALL BE "TYPE 2" AS PRESCRIBED IN THE LATEST REVISION OF AWWA C600. MECHANICAL JOINTS SHALL HAVE RETAINER GLANDS.
- ALL PIPE FITTINGS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE AWWA SPECIFICATION C153/A21.53-00.
- ALL GATE VALVES SHALL BE "MUELLER" OR APPROVED EQUAL, RESILIENT-SEALED GATE VALVES WITH MECHANICAL JOINT CONNECTIONS. OPENING SHALL BE LEFT (CCW) AND OPERATION SHALL BE BY 2" SQUARE WRENCH NUT. MINIMUM WORKING PRESSURE SHALL BE 250 PSI. GATE VALVES ARE TO BE IN ACCORDANCE WITH LATEST REVISION OF AWWA SPECIFICATION C509.
- ALL VALVE BOXES SHALL BE EXTENSION TYPE BY MUELLER SET ON BRICKS AND POSITIONED PERPENDICULAR TO THE PIPE AND ON COMPACTED BACKFILL.
- ALL CHANGES IN PIPE LINE DIRECTION, BOTH HORIZONTAL AND VERTICAL SHALL BE TIE-RODDED AND THRUST BLOCKED WITH CONCRETE AGAINST UNDISTURBED EARTH AS DIRECTED BY THE ENGINEER.
- FLUSH OUT ALL WATER MAINS AND APPURTENANCES AS DIRECTED BY THE MUNICIPALITY UNTIL THE WATER RUNS CLEAN AND FREE OF RUST AND DIRT. PRESSURIZE ALL LINES AND APPURTENANCES FOR FORTY-EIGHT (48) HOURS, OR AS DIRECTED BY THE MUNICIPALITY, TO REVEAL ANY LEAKS OR BROKEN PIPE. THIS SHALL BE DONE EITHER AS A TOTAL PROJECT OR BETWEEN VALVED SECTIONS AS DIRECTED BY THE TOWN. IF PRESSURE TESTING REVEALS ANY LEAKS OR DIFFICULTIES THE CONTRACTOR SHALL PROMPTLY UNCOVER THE LEAK OR BROKEN PIPE AND IMMEDIATELY REPAIR AND RE-TEST SAME. THIS SHALL BE REPEATED AS MANY TIMES AS MAY BE REQUIRED TO DEMONSTRATE A TIGHT LINE TO THE SATISFACTION OF THE TOWN. THE NEW WATER MAIN AND APPURTENANCES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C600. RESULTS OF TESTS ARE TO BE SUBMITTED AND ACCEPTED BY THE MUNICIPALITY.
- THE MUNICIPAL ENGINEER MUST BE NOTIFIED FORTY-EIGHT (48) HOURS PRIOR TO PRESSURE TESTING.
- ALL WATER LINES AND APPURTENANCES SHALL BE DISINFECTED TO THE SATISFACTION OF THE MUNICIPALITY, AND IN ACCORDANCE WITH THE STANDARDS OF THE DEPT. OF HEALTH. THIS SHALL ALSO BE DONE IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C651. A MINIMUM OF TWO (2) BACTERIAL TESTS TAKEN TWENTY-FOUR (24) HOURS APART ARE REQUIRED. RESULTS OF TESTS ARE TO BE SUBMITTED AND ACCEPTED BY THE MUNICIPALITY. AS PER AWWA C651, LATEST REVISION, WATER MAIN DISINFECTION PROCEDURE SHALL, GENERALLY, BE AS FOLLOWS:
 - INSPECTING MATERIALS TO BE USED TO ENSURE THEIR INTEGRITY.
 - PREVENTING CONTAMINATING MATERIALS FROM ENTERING THE WATER MAIN DURING STORAGE, CONSTRUCTION, OR REPAIR AND NOTING POTENTIAL CONTAMINATION AT THE CONSTRUCTION SITE.
 - REMOVING, BY FLUSHING OR OTHER MEANS, THOSE MATERIALS THAT MAY HAVE ENTERED THE WATER MAIN.
 - CHLORINATING ANY RESIDUAL CONTAMINATION THAT MAY REMAIN AND FLUSHING THE CHLORINATED WATER FROM THE MAIN.
 - PROTECTING THE EXISTING DISTRIBUTION SYSTEM FROM BACKFLOW CAUSED BY HYDROSTATIC PRESSURE TEST AND DISINFECTION PROCEDURES.
 - DOCUMENTING THAT AN ADEQUATE LEVEL OF CHLORINE CONTACTED EACH PIPE TO PROVIDE DISINFECTION.
 - DETERMINING THE BACTERIOLOGICAL QUALITY BY LABORATORY TEST AFTER DISINFECTION.
 - FINAL CONNECTION OF THE APPROVED NEW WATER SERVICE TO THE ACTIVE DISTRIBUTION SYSTEM.
- THE CONTINUOUS-FEED METHOD SHALL BE IMPLEMENTED FOR CHLORINATION, AS DESCRIBED IN AWWA C651, LATEST REVISION. AFTER CHLORINATION, THE CONTRACTOR SHALL FLUSH THE MAINS AS PER FINAL FLUSHING REQUIREMENTS OF AWWA C651, LATEST REVISION. WHEN CUTTING INTO OR REPAIRING AN EXISTING MAIN, DISINFECTION PROCEDURES SHALL BE OBSERVED AS DETAILED IN DISINFECTION PROCEDURES WHEN CUTTING INTO OR REPAIRING EXISTING MAINS OF AWWA C651, LATEST REVISION.

VERIFICATION SHALL BE ACCOMPLISHED VIA BACTERIOLOGICAL TESTS. AFTER FINAL FLUSHING AND BEFORE THE NEW WATER MAIN IS CONNECTED TO THE DISTRIBUTION SYSTEM, TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES, TAKEN AT LEAST 24 HRS APART, SHALL BE COLLECTED FROM THE NEW MAIN. AT LEAST ONE SET OF SAMPLES SHALL BE COLLECTED FROM EVERY 1,200 FT OF THE NEW WATER MAIN, PLUS ONE SET FROM THE END OF THE LINE AND AT LEAST ONE SET FROM EACH BRANCH. SAMPLES SHALL BE TESTED FOR BACTERIOLOGICAL (CHEMICAL AND PHYSICAL) QUALITY IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, AND SHALL SHOW THE ABSENCE OF COLOIFORM ORGANISMS AND THE PRESENCE OF A CHLORINE RESIDUAL. SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED IN STERILE BOTTLES TREATED WITH SODIUM THIOSULFATE, AS REQUIRED BY STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. NO HOSE OR FIRE HYDRANT SHALL BE USED IN THE COLLECTION OF SAMPLES. THERE SHOULD BE NO WATER IN THE TRENCH UP TO THE CONNECTION FOR SAMPLING. THE SAMPLING PIPE MUST BE DEDICATED AND CLEAN AND DISINFECTED AND FLUSHED PRIOR TO SAMPLING. A CORPORATION COCK MAY BE INSTALLED IN THE MAIN WITH A COPPER TUBE GOOSENECK ASSEMBLY. AFTER SAMPLES HAVE BEEN COLLECTED, THE GOOSENECK ASSEMBLY MAY BE REMOVED AND RETAINED FOR FUTURE USE. IF SAMPLES FROM THE LAB INDICATE A MEASURED HPC GREATER THAN 500 COLONY-FORMING UNITS (CFU) PER ML, FLUSHING SHOULD BE RESUMED AND ANOTHER COLIFORM AND HPC SET OF SAMPLES SHOULD BE TAKEN UNTIL NO COLIFORMS ARE PRESENT AND THE HPC IS LESS THAN 500 CFU/ML. THE RECORD OF COMPLIANCE SHALL BE THE BACTERIOLOGICAL TEST RESULTS CERTIFYING THAT THE WATER SAMPLED FROM THE NEW WATER MAIN IS FREE OF COLIFORM BACTERIA CONTAMINATION AND IS EQUAL TO OR BETTER THAN THE BACTERIOLOGICAL WATER QUALITY IN THE DISTRIBUTION SYSTEM.

ALL OTHER REQUIREMENTS OF AWWA C651, LATEST REVISION, SHALL BE OBSERVED.

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1	06/01/21	GBR	REVISED PER TOWN & CONSULTANT COMMENTS AND STANDARD DETAILS
2	08/01/21	GBR	REVISED PER PLANNING BOARD COMMENTS

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Andrew B. Fetherston

NEW YORK LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 073555-01
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.Y. C.O.A.#: 9017609

PRELIMINARY SITE PLAN

FOR

RDM GROUP

COUNTY ROAD 56

SECTION 12
BLOCK 1
LOT 2.2

TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

Colliers

555 Hudson Valley Avenue
Suite 101
New Windsor, NY 12553
Phone: 845.564.4495
COLLIERS ENGINEERING & DESIGN CT, P.C.
ORANGE BUSINESS & MAJOR CONSULTING
ENGINEERING & DESIGN

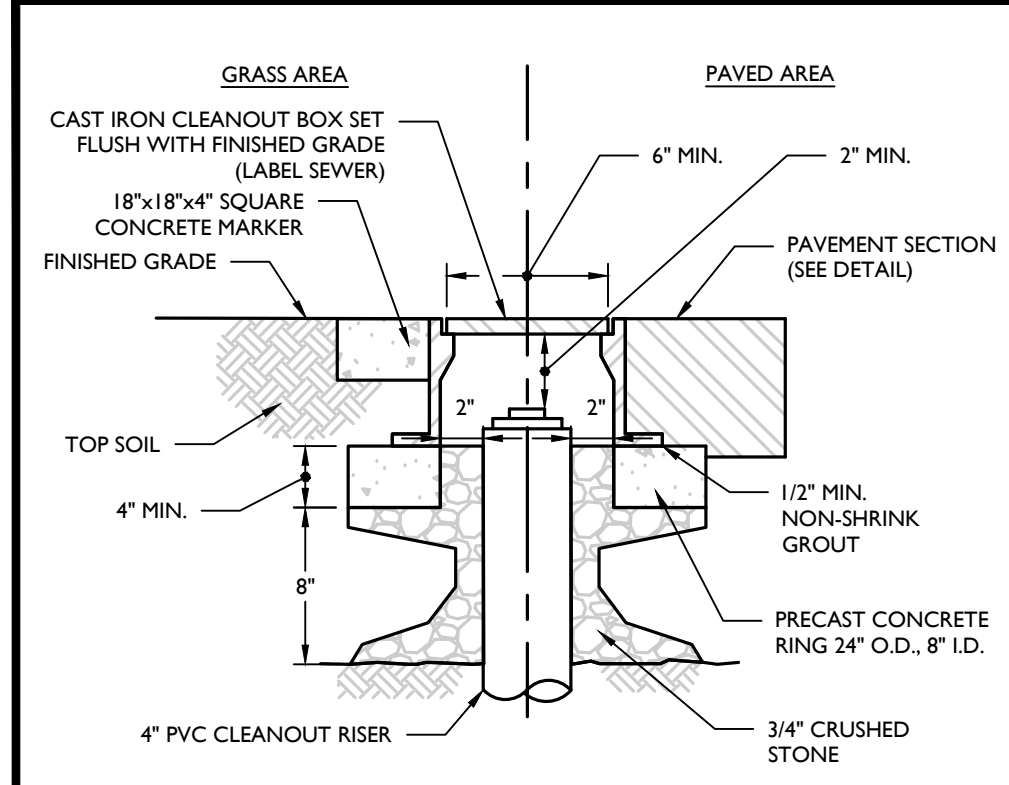
SCALE: AS SHOWN
DATE: 03/10/2021
PROJECT NUMBER: 20003236A
DRAWING NAME: C-0115

DRAWN BY: CDR
CHECKED BY: JED

SHEET TITLE: CONSTRUCTION DETAILS

SHEET NUMBER: 20 of 22

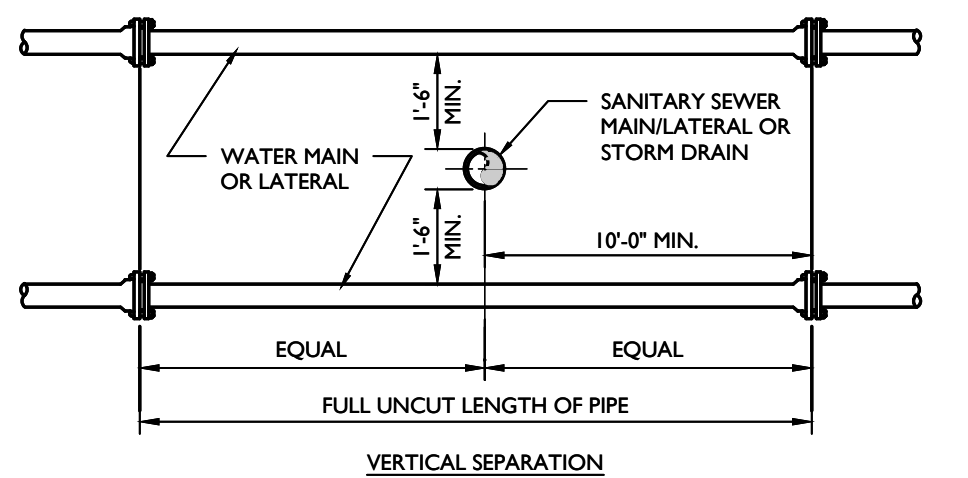
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



NOTES
1. ALL PVC CLEANOUTS TO HAVE CAST IRON FRAME AND COVER PROTECTION BOX. DESIGN FOR H20 LOADING.

CLEANOUT PROTECTION BOX DETAIL

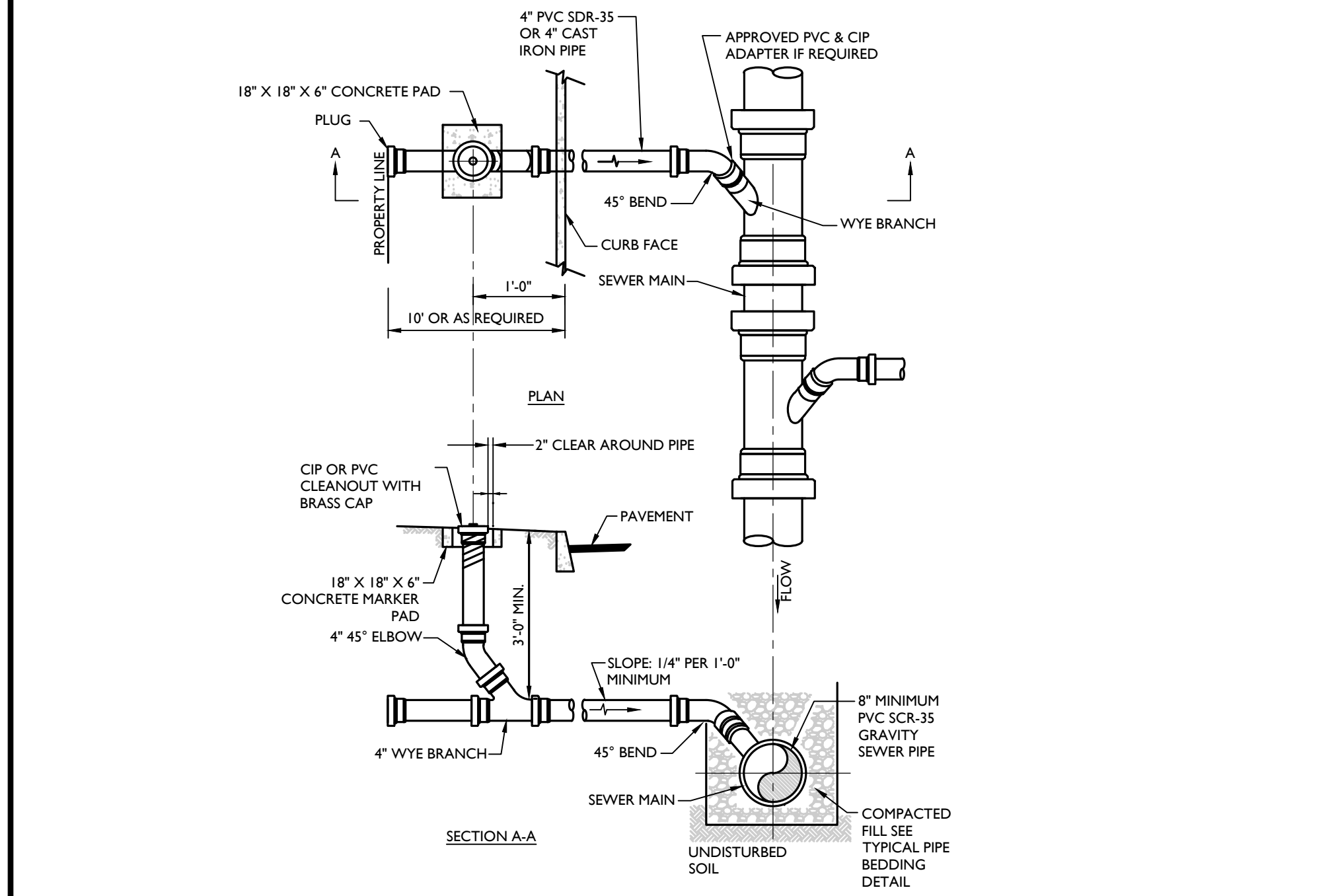
NOT TO SCALE MCNY-UTIL-SSWR-1600 07/01/19



NOTE:
1. NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE DEPARTMENT OF HEALTH

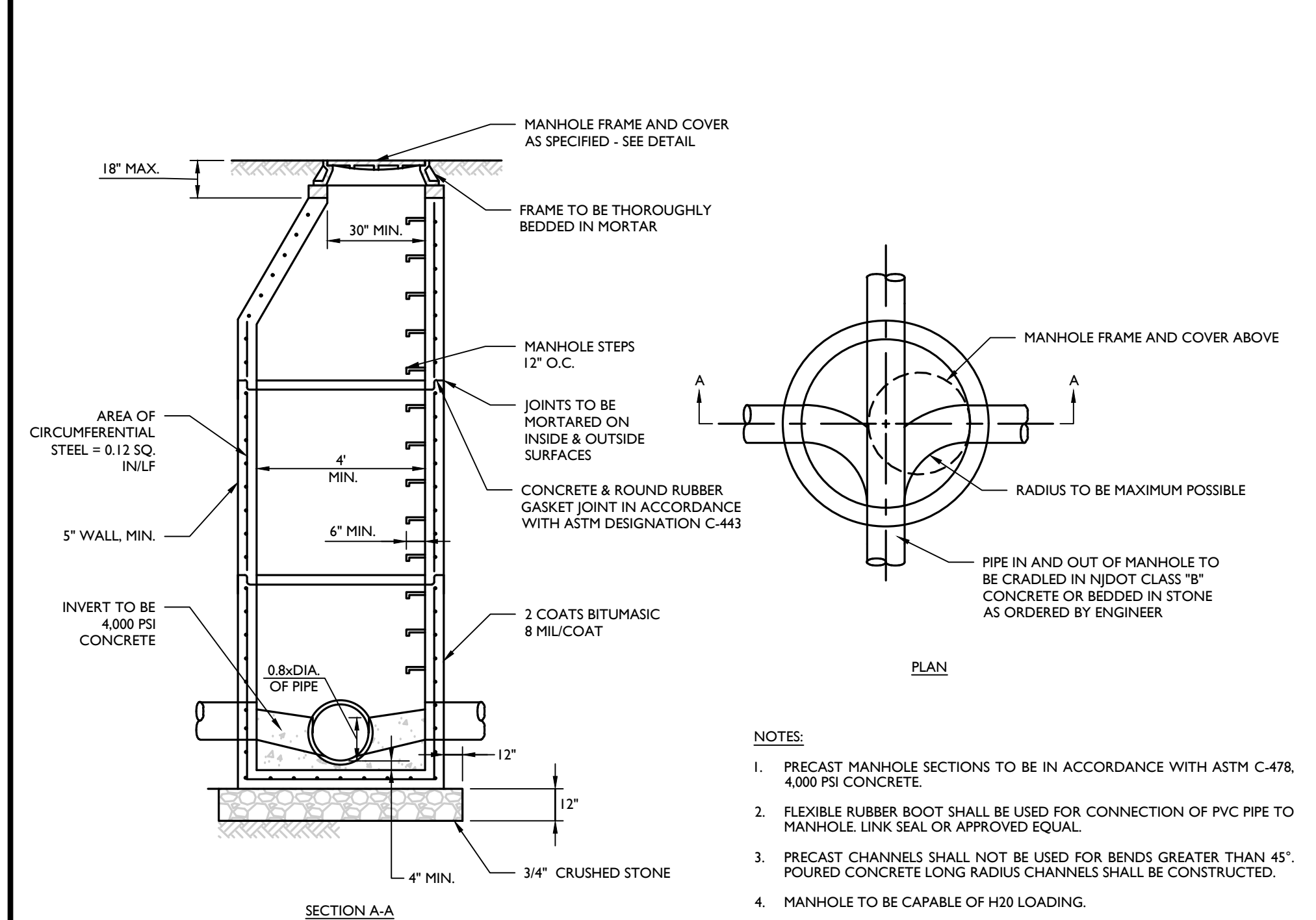
SANITARY/STORM SEWER-WATER MAIN SEPARATION DETAIL

NOT TO SCALE MCNY-UTIL-SSWR-2400 07/01/19



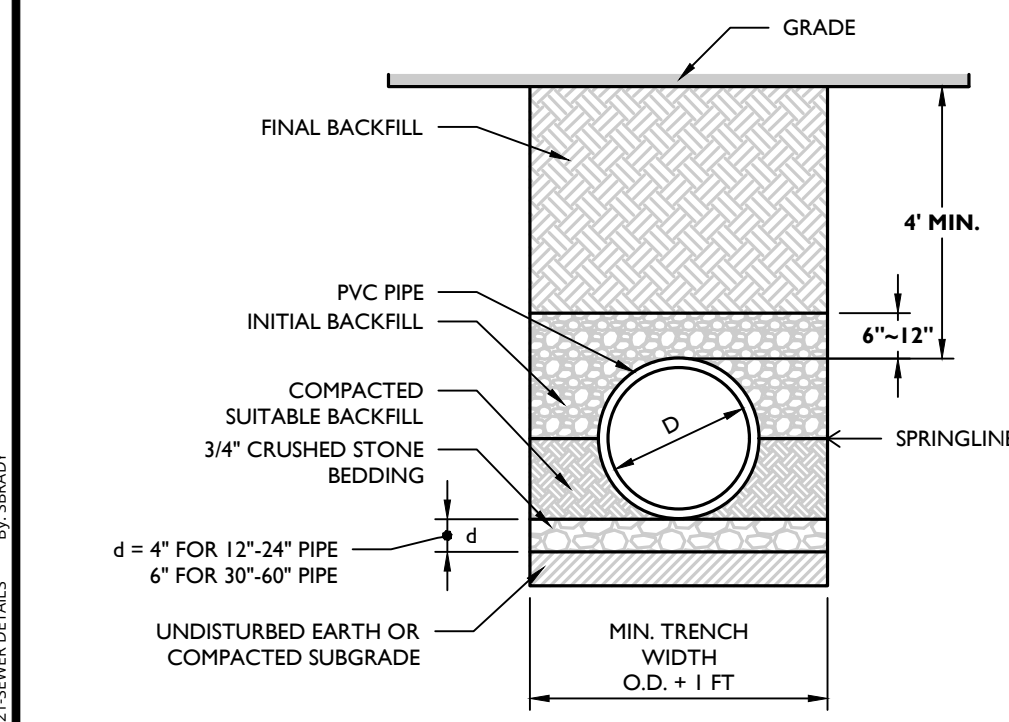
SANITARY SEWER LATERAL & CLEANOUT DETAIL

NOT TO SCALE MCNY-UTIL-SSWR-1601 07/01/19



SANITARY PRECAST MANHOLE DETAIL

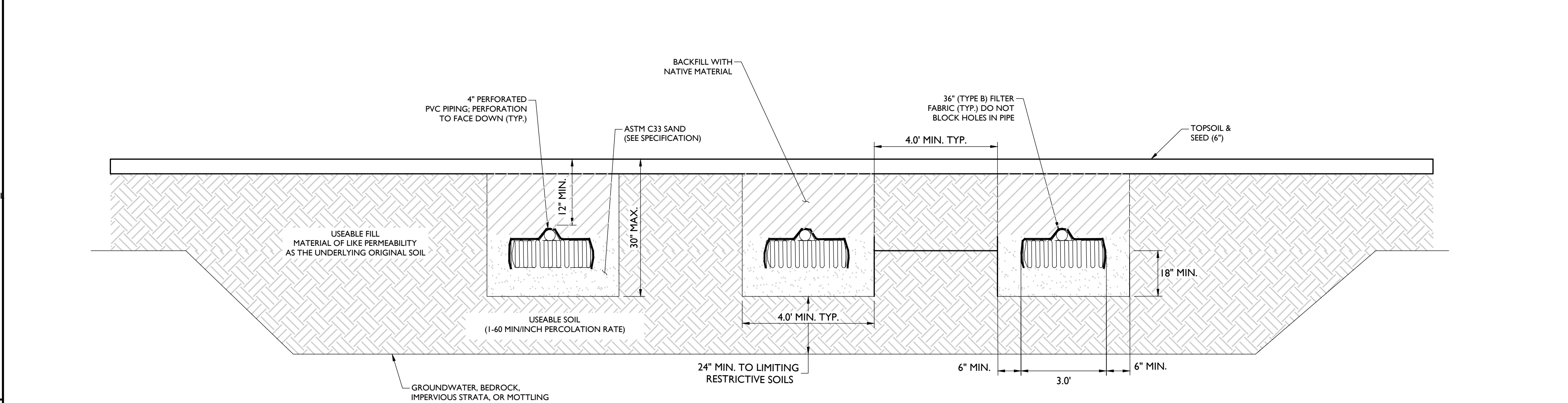
NOT TO SCALE MCNY-UTIL-SSWR-1600 07/01/19



NOTES
1. ALL PVC GRAVITY PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D3321.
2. GRAVITY SANITARY PIPE SHALL BE PVC SDR 35 PER ASTM D3034 OR AS REQUIRED BY THE GOVERNING AUTHORITY.

PVC SANITARY PIPE BEDDING (GRAVITY) DETAIL

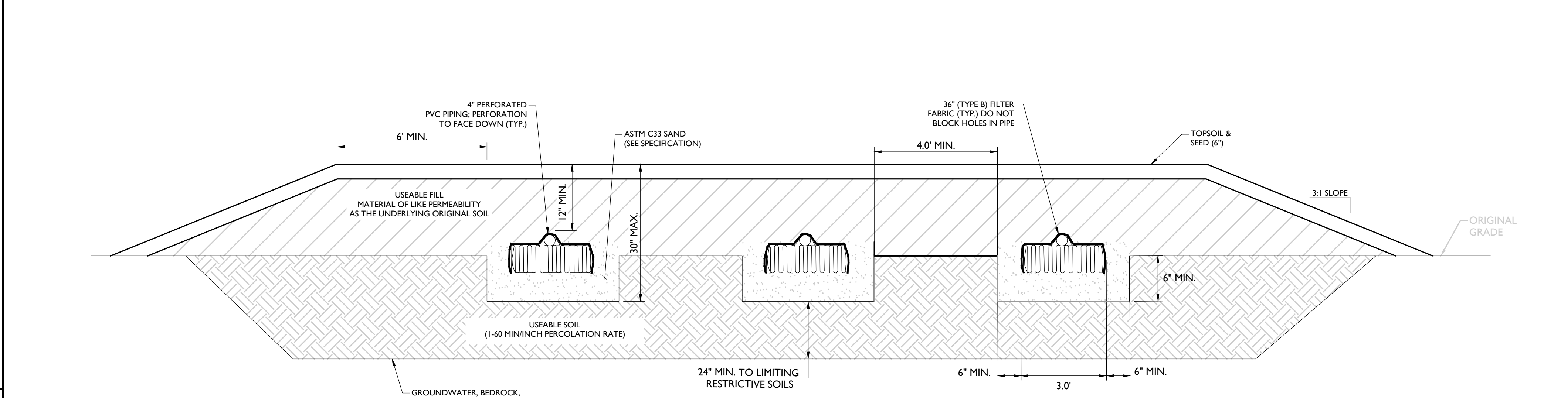
NOT TO SCALE MCNY-UTIL-SSWR-2803 07/01/19



NOTES
1. BOTTOM OF ALL TRENCHES SHALL NOT BE ABOVE ORIGINAL USABLE SOIL AND TRENCHES SHALL BE A MINIMUM OF 18\"/>

TYPICAL STANDARD TRENCH CROSS SECTION ELJEN IN-DRAIN SYSTEM

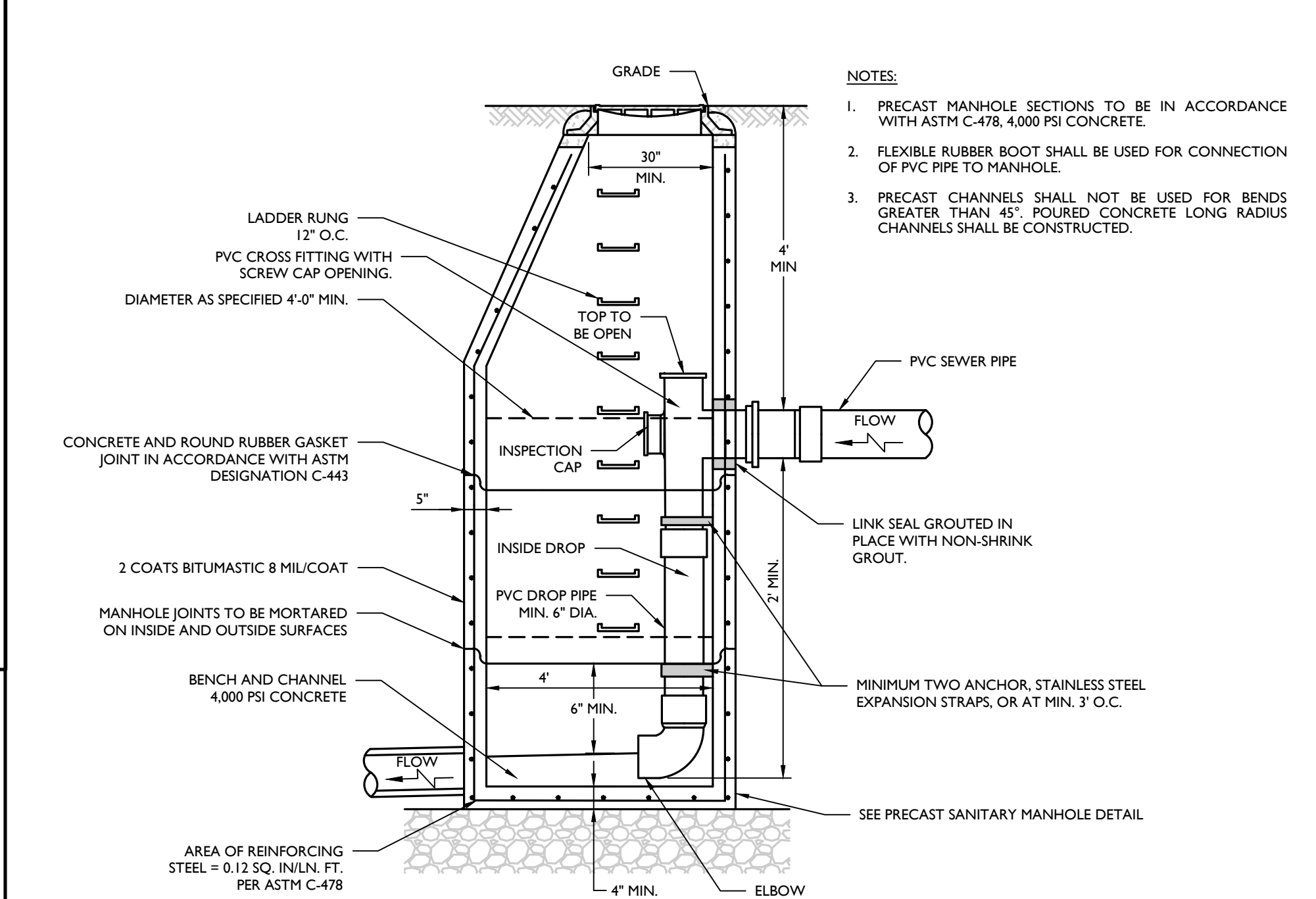
NOT TO SCALE MOD: 03/01/21 XXXXX/XX



NOTES
1. BOTTOM OF ALL TRENCHES SHALL NOT BE ABOVE ORIGINAL USABLE SOIL AND TRENCHES SHALL BE A MINIMUM OF 6\"/>

TYPICAL SHALLOW TRENCH CROSS SECTION ELJEN IN-DRAIN SYSTEM

NOT TO SCALE MOD: 03/01/21 XXXXX/XX



SANITARY DROP MANHOLE CONNECTION (INTERNAL) DETAIL

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2	03/01/21	ISSUED FOR PERMITS

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FOR

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COUNTY ROAD 56

SECTION 12

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LOT 2.2

TOWN OF WAWAYANDA

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Suite 101
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COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING ENGINEERING & LAND SURVEYING

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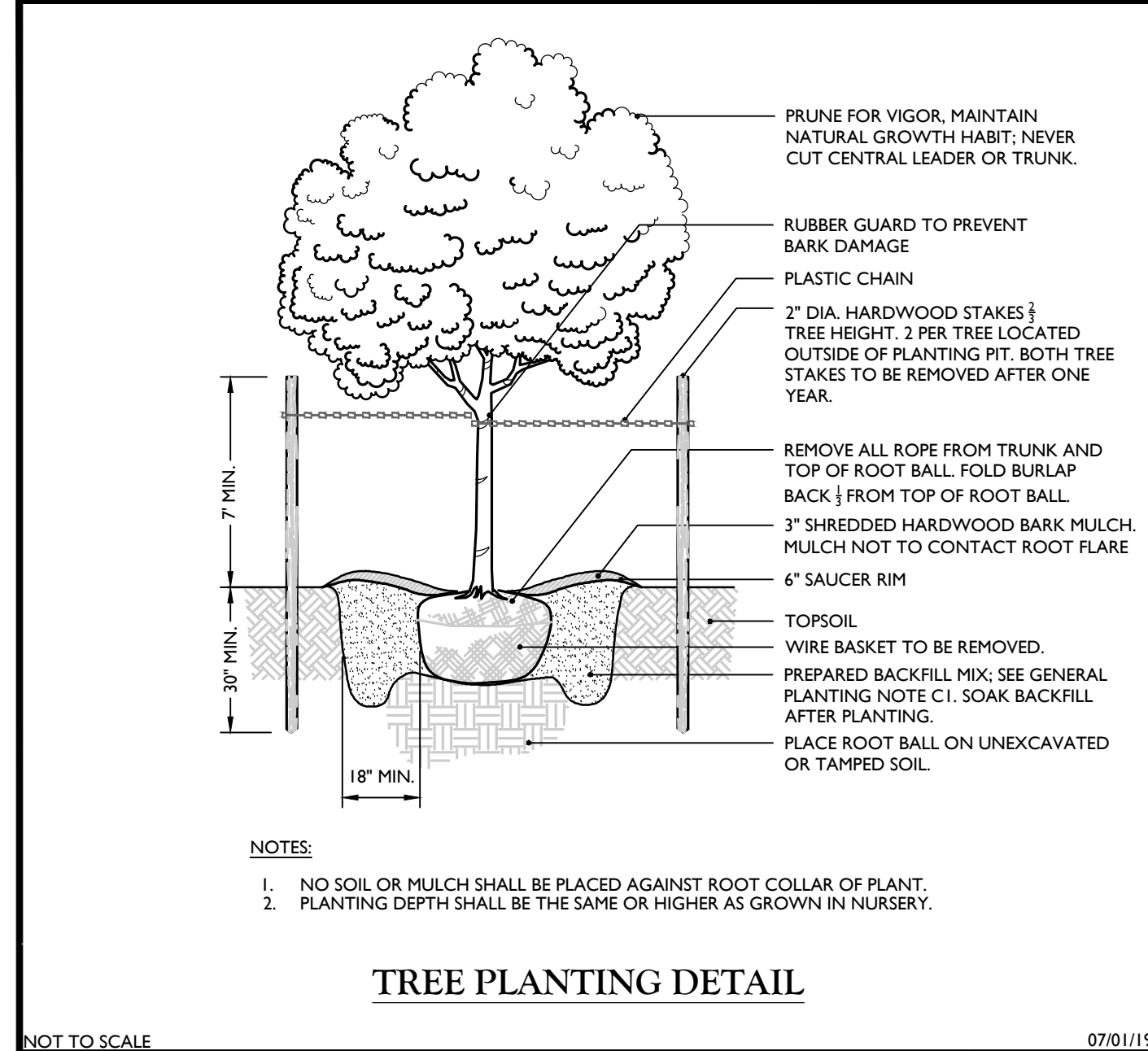
PROJECT NUMBER	DRAWING NAME
20003236A	C-0115

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
21 of 22

TOWN OF WAWAYANDA
PLANNING BOARD

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



NOT TO SCALE

1. TEMPORARY SEEDING: REFER TO SOIL EROSION AND SEDIMENT CONTROL PLANS.
2. PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE OR APPROVED EQUAL:
OPTIMUM SEEDING DATES: ARE BETWEEN APRIL 1 AND MAY 31; AND AUGUST 16 AND OCTOBER 15.

TURF MIX (7-10 LBS./1,000 S.F. MINIMUM)
TALL FESCUE "STINGRAY" (34%)
TALL FESCUE "RAPTOR" III (33%)
HARD FESCUE "RUDY" (33%)

BRAIN MIX (2-3 LBS./1,000 S.F. MINIMUM)
CREEPING RED FESCUE (30%)
TALL FESCUE (30%)
PERENNIAL RYE GRASS (10%)
BIRDSPOT TREFOIL (30%)

SEEDING OUTSIDE OF THE OPTIMUM DATES SHALL NOT BE CONDUCTED WITH OUT PRIOR APPROVAL.
3. PERMANENT SEEDING TO BE APPLIED BY RAKING OR DRILLING INTO THE SOILS AT THE RATE GIVEN ABOVE.
4. FERTILIZER FOR THE ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE IN COMPLIANCE WITH THE LATEST NYSDEC REGULATIONS. THIS INCLUDES, BUT LIMITED TO:
1. NO FERTILIZER SHALL BE APPLIED BETWEEN DEC. 1 AND APRIL 1 IN ANY YEAR.
2. SHALL NOT BE APPLIED WITHIN 20 FEET OF A WATER BODY.
3. ONLY LAWN FERTILIZER WITH LESS THAN 0.6% BY WEIGHT PHOSPHATE CONTENT MAY BE APPLIED. (A SOIL TEST PRIOR TO FERTILIZER APPLICATION IS RECOMMENDED.)
5. IF SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY OR PERMANENT SEEDING, EXPOSED AREA TO BE STABILIZED WITH MULCH AS INDICATED IN NOTE 6.
6. MULCH TO CONSIST OF SMALL GRAIN STRAW OR SALT HAY ANCHORED WITH A WOOD AND FIBER MULCH BINDER OR AN APPROVED EQUAL. MULCH WILL BE SPREAD AT RATES PER NYSDEC STANDARDS AND ANCHORED WITH A MULCH ANCHORING TOOL OR LIQUID MULCH BINDER, AND SHALL BE PROVIDED ON ALL SEEDINGS. HYDROMULCH SHALL ONLY BE USED DURING OPTIMUM GROWING SEASONS.
7. AS NEEDED, WORK LIME AND FERTILIZER INTO SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE RAIL HARROWING OR DISCING OPERATION SHOULD BE ON ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
8. REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.
9. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

GENERAL SEEDING NOTES

NOT TO SCALE

07/01/19

MCM-SITE-FNCE-1900

SPLIT RAIL FENCE (2 - RAIL) DETAIL

NOT TO SCALE

07/01/19

MCNY-SITE-FNCE-1801

REINFORCED CONCRETE SIDEWALK (NEXT TO GRASS) DETAIL

NOT TO SCALE

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