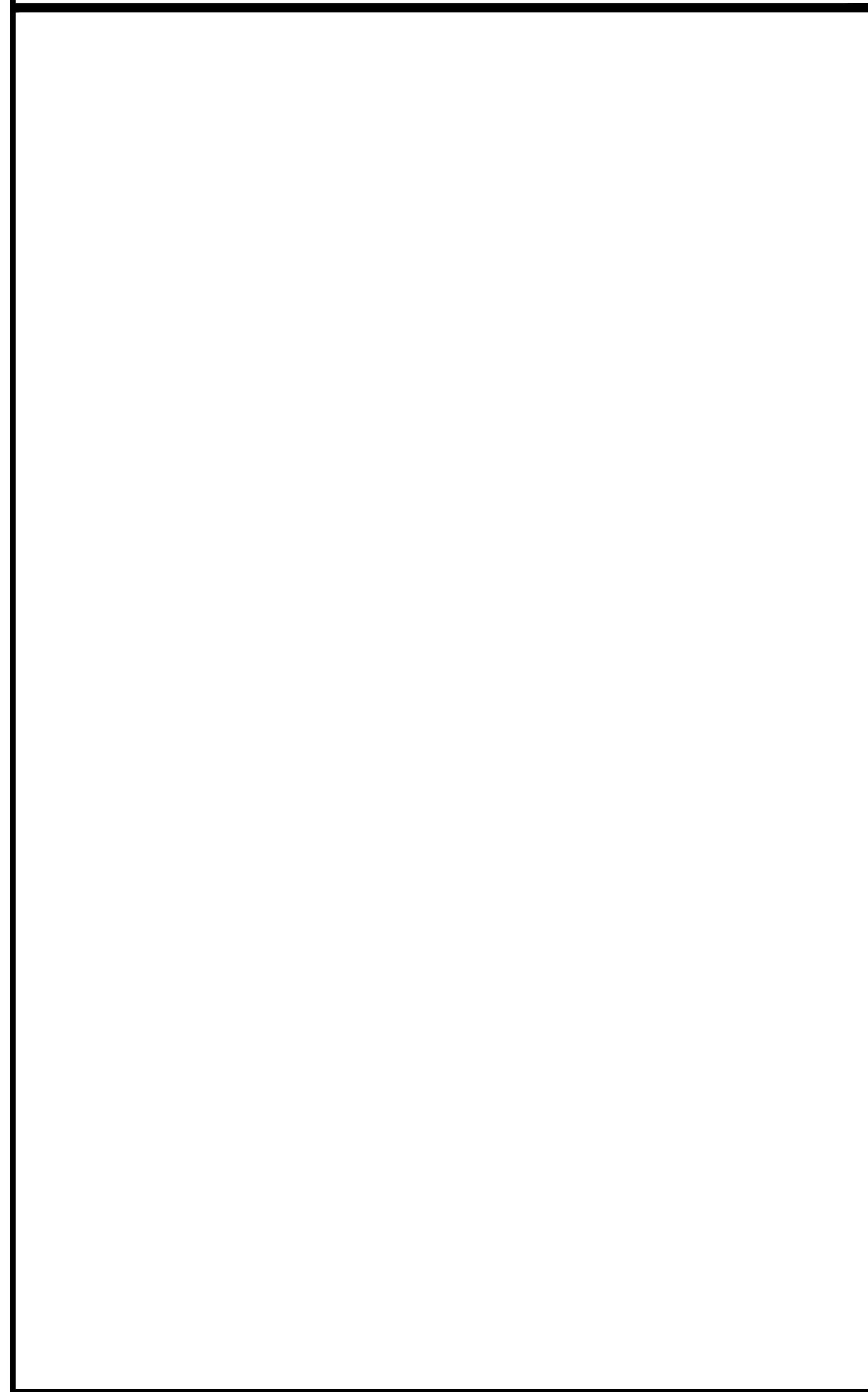


TOWN OF WAWAYANDA TAX MAP
SCALE: 1" = 500'
SOURCE: ORANGE COUNTY, NY TAX MAP



SITE LOCATION MAP

SOURCE: NEW YORK STATE CLEARING HOUSE

PRELIMINARY SITE PLANS FOR DEWPOINT NORTH LLC DEWPOINT NORTH SECTION 4, BLOCK 1, LOT 50.2 TOWN OF WAWAYANDA ORANGE COUNTY, NEW YORK STATE

GENERAL INFORMATION

- THE SUBJECT PROPERTY IS KNOWN AS SECTION 4, BLOCK 1, LOT 50.2 IN THE TOWN OF WAWAYANDA ORANGE COUNTY, NEW YORK.
- THE PROPERTY IS LOCATED IN THE MC-1 (MIXED COMMERCIAL) ZONE DISTRICT AND CONTAINS A TOTAL TRACT AREA OF 268,913 SF, 6.17 ACRES.
- OWNER/APPLICANT: DEWPOINT NORTH LLC
1 INTERNATIONAL BOULEVARD - SUITE 410
MAHWAH, NEW JERSEY 07430
- BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS TAKEN FROM A PLAN ENTITLED "OUTBOUND & TOPOGRAPHIC SURVEY PLAN FOR DOLSONTOWN ROAD SECTION 4, BLOCK 1, LOT 50.2" AND PREPARED BY JOHN W. MCCORD, SR. DATED JANUARY 25, 2021, LAST REVISED SEPTEMBER 01, 2021.
- THE HORIZONTAL DATUM IS RELATIVE TO NAD83. THE VERTICAL DATUM IS RELATIVE TO N.A.V.D. 1988.
- THE LIMITS OF FRESHWATER WETLANDS SHOWN HEREON WERE FIELD DELINEATED BY COLLIERS ENGINEERING & DESIGN ON NOVEMBER 3, 2021 AND A PRECONSTRUCTION NOTIFICATION APPLICATION TO THE ARMY CORPS OF ENGINEERS IS PENDING.
- 100 YEAR FLOOD PLAINS ARE KNOWN TO EXIST ON THE SITE PER THE FLOOD INSURANCE RATE MAPS 36071C0266E DATED 8/03/2009 PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
- THIS SET OF PLANS IS NOT DEPICTING ENVIRONMENTAL CONDITIONS OR A CERTIFICATION/WARRANTY REGARDING THE PRESENCE OR ABSENCE OF ENVIRONMENTALLY IMPACTED SITE CONDITIONS. COLLIERS ENGINEERING & DESIGN HAS PERFORMED NO EXPLORATORY OR TESTING SERVICES, INTERPRETATIONS, CONCLUSIONS OR OTHER SITE ENVIRONMENTAL SERVICES RELATED TO THE DETERMINATION OF THE POTENTIAL FOR CHEMICAL, TOXIC, 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 LAWS AND REGULATIONS.
- THIS IS A SITE DEVELOPMENT PLAN AND UNLESS SPECIFICALLY NOTED ELSEWHERE HEREON, IS NOT A SURVEY.
- DO NOT SCALE DRAWINGS AS THEY PERTAIN TO ADJACENT AND SURROUNDING PHYSICAL CONDITIONS, BUILDINGS, STRUCTURES, ETC. THEY ARE SCHEMATIC ONLY, EXCEPT WHERE DIMENSIONS ARE SHOWN THERETO.
- THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL APPROVALS REQUIRED HAVE BEEN OBTAINED. ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED AND THE DRAWINGS HAVE BEEN STAMPED "ISSUED FOR CONSTRUCTION". THIS SHALL INCLUDE APPROVAL OF ALL CATALOG CUTS, SHOP DRAWINGS AND/OR DESIGN CALCULATIONS AS REQUIRED BY THE PROJECT OWNER AND/OR MUNICIPAL ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY, INCLUDING PROVISION OF ALL APPROPRIATE SAFETY DEVICES AND TRAINING REQUIRED.
- PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CALL 811 TO REQUEST A UTILITY MARKOUT.
- INFORMATION HEREON INCORPORATES THE CONTENT IN THE FOLLOWING REPORTS:
"STORMWATER POLLUTION PREVENTION PLAN (SWPPP)" PREPARED FOR DEWPOINT NORTH LLC AND COLLIERS ENGINEERING & DESIGN, DATE DECEMBER 2021.

- SITE NOTES**
- BUILDING FOOTPRINT DIMENSIONS SHOWN HEREON ARE APPROXIMATE. FINAL BUILDING FOOTPRINT DIMENSIONS FOR THE BUILDING SHALL BE FURNISHED ON THE INDIVIDUAL ARCHITECTURAL PLANS AT THE TIME OF APPLICATION FOR A BUILDING PERMIT. ALL STRUCTURES SHALL CONFORM TO THE APPROVED BULK ZONING REQUIREMENTS.
 - CURBS SHALL BE DEPRESSED FLUSH WITH PAVEMENT, AND HANDICAP ACCESSIBLE RAMPS INSTALLED WHERE SIDEWALKS AND CROSSWALKS INTERSECT SAME. DETECTABLE WARNING STRIPS SHALL BE INCLUDED ON HANDICAP ACCESSIBLE RAMPS.
 - TRAFFIC SIGNAGE AND STRIPING SHALL CORRESPOND TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL WASTE MATERIALS IN ACCORDANCE WITH GOVERNING REGULATIONS AND AGENCIES.
 - REFUSE AND RECYCLABLES SHALL BE STORED WITHIN OUTDOOR ROLL-OFF CONTAINERS AND PICKED UP BY PRIVATE WASTE DISPOSAL HAULER.
 - THERE SHALL BE NO ON-SITE BURIAL OF CONSTRUCTION MATERIALS, TREE BRANCHES, STUMPS, OR OTHER DELETERIOUS MATERIALS.
 - MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH:
 - NEW YORK STATE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", 2018, AS SUPPLEMENTED.
 - CURRENT PREVAILING MUNICIPAL, COUNTY, AND/OR STATE AGENCY SPECIFICATIONS, STANDARDS, CONDITIONS, AND REQUIREMENTS.
 - CURRENT PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.
 - CURRENT MANUFACTURER SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.

- UTILITY NOTES**
- EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTIONS, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS, AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS. THE CONTRACTOR SHALL NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE OR INEFFECTIVE.
 - UTILITY RELOCATIONS SHOWN HEREON, IF ANY, ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT REPRESENT ALL REQUIRED UTILITY RELOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING AND/OR COORDINATING ALL REQUIRED UTILITY RELOCATIONS IN COOPERATION WITH THE RESPECTIVE UTILITY COMPANY/AUTHORITIES.
 - STORM SEWERS SHALL BE CLASS III (OR HIGHER IF NOTED) REINFORCED CONCRETE PIPE (RCP) WITH "O" RING GASKETS OR INTERNALLY PRELUBRICATED GASKET (TYLOX SUPERSEAL OR EQUIVALENT, ADS N-12 HIGH DENSITY POLYETHYLENE PIPE (HDPE), AS NOTED ON THE PLAN, OR APPROVED EQUAL. PROPER PIPE COVERAGE SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. PIPE LENGTHS SHOWN HEREON ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
 - WATER SERVICE TO BE PROVIDED FROM THE EXISTING WATER MAIN LINE ON DOLSONTOWN ROAD, OWNED AND OPERATED BY THE TOWN OF WAWAYANDA WATER DEPARTMENT. PROPOSED WATER MAIN EXTENSIONS AND FIRE HYDRANT LOCATIONS ARE SUBJECT TO MUNICIPAL REVIEW AND APPROVAL. PIPE MATERIALS SHALL BE CEMENT LINED DUCTILE IRON PIPE, CLASS 52 AS NOTED ON THE PLANS. WATER MAINS SHALL BE INSTALLED TO PROVIDE A MINIMUM 4'-6" FEET OF COVER FROM THE TOP OF PIPE TO THE PROPOSED GRADE.
 - SANITARY SEWER SERVICE SHALL BE PROVIDED BY GRAVITY CONNECTION TO EXISTING SEWER MAIN ON DOLSONTOWN ROAD, OWNED AND OPERATED BY THE TOWN OF WAWAYANDA SEWER DEPARTMENT. PROPOSED SEWER MAIN EXTENSIONS AND MANHOLE LOCATIONS ARE SUBJECT TO MUNICIPAL REVIEW AND APPROVAL. PIPE MATERIALS SHALL BE PVC SDR-35, EXCEPT AS NOTED OTHERWISE ON THE PLANS. EXCEPT WHERE SHALLOWER DEPTHS ARE PERMITTED BY THE MUNICIPALITY OR UTILITY AUTHORITY, SEWER LINES, INCLUDING FORCE MAINS AND LATERALS, SHALL BE INSTALLED TO PROVIDE A MINIMUM 4 FEET OF COVER FROM THE TOP OF PIPE TO PROPOSED GRADE.
 - ALL WATER MAINS SHOULD BE SEPARATED FROM SANITARY SEWER AND INDUSTRIAL DISCHARGE LINES BY A MINIMUM HORIZONTAL DISTANCE OF 10 FEET. IF SUCH HORIZONTAL SEPARATION IS NOT POSSIBLE, THE WATER AND SEWER LINES SHALL BE IN SEPARATE TRENCHES (SEE TRENCHES ARE PROHIBITED) WITH THE TOP OF THE SEWER LINE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN ENCASED IN CONCRETE OR WITH SUCH SEPARATION EXPRESSLY APPROVED BY THE DEPARTMENT OF HEALTH.
 - AT THE CROSSINGS OF SEWER LINES AND WATER MAINS, THE TOP OF THE SEWER LINES SHALL BE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN SUBJECT TO APPROVAL BY THE PROJECT ENGINEER. IF SUCH VERTICAL SEPARATION IS NOT POSSIBLE, THE WATER LINE SHALL BE ENCASED IN CONCRETE.
 - GAS, ELECTRIC, LIGHTING, CABLE TELEVISION, AND ELECTRICAL SERVICE PLANS, IF REQUIRED, SHALL BE PREPARED BY THE RESPECTIVE UTILITY COMPANIES THAT SERVICE THE AREA PRIOR TO SITE CONSTRUCTION AND SHALL BE INSTALLED PER ORDINANCE OR LOCAL UTILITY COMPANIES REQUIREMENTS.
 - TELEPHONE, ELECTRIC, AND GAS LINES WILL BE INSTALLED UNDERGROUND. CROSSINGS OF PROPOSED PAVEMENTS WILL BE INSTALLED PRIOR TO THE CONSTRUCTION OF PAVEMENT BASE COURSE.

INDEX OF SHEETS		
SHT. No.	DESCRIPTION	LATEST REVISION
1	COVER SHEET	2/4/2022
2	EXISTING CONDITIONS & DEMOLITION PLAN	2/4/2022
3	DIMENSION PLAN	2/4/2022
4	GRADING & DRAINAGE PLAN	2/4/2022
5	UTILITY PLAN	2/4/2022
6	SOIL EROSION & SEDIMENT CONTROL PLAN	2/4/2022
7	SOIL EROSION & SEDIMENT CONTROL DETAILS	2/4/2022
8	LANDSCAPE PLAN	2/4/2022
9	LIGHTING PLAN	2/4/2022
10-16	CONSTRUCTION DETAILS	2/4/2022

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REV.	DATE	DESCRIPTION	BY	CHKD.
1	02/04/22	REVISED WETLAND IMPACT REDUCTION & DETAILS FOR GEB SUBMISSION.	CDR	

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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.#: 0017609

PRELIMINARY SITE PLANS
FOR
DEWPOINT NORTH LLC
SECTION 4,
BLOCK 1
LOT 50.2
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.
DOING BUSINESS AS MASER CONSULTING
ENGINEERING & LAND SURVEYING

SCALE: AS SHOWN DATE: 01/10/2022 DRAWN BY: MAS CHECKED BY: CDR
PROJECT NUMBER: 20005912A DRAWING NAME: C-COVER-NRTH
SHEET TITLE: COVER SHEET
SHEET NUMBER: 01 of 16

**TOWN OF WAWAYANDA
PLANNING BOARD**

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 SAFETY, NEW YORK, 1-800-962-7962 OR 811. A PRE-DEMOLITION CONFERENCE WILL NEED TO BE ARRANGED WITH DIG SAFETY, 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/TO:
 - 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.
- COLLIERS 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.

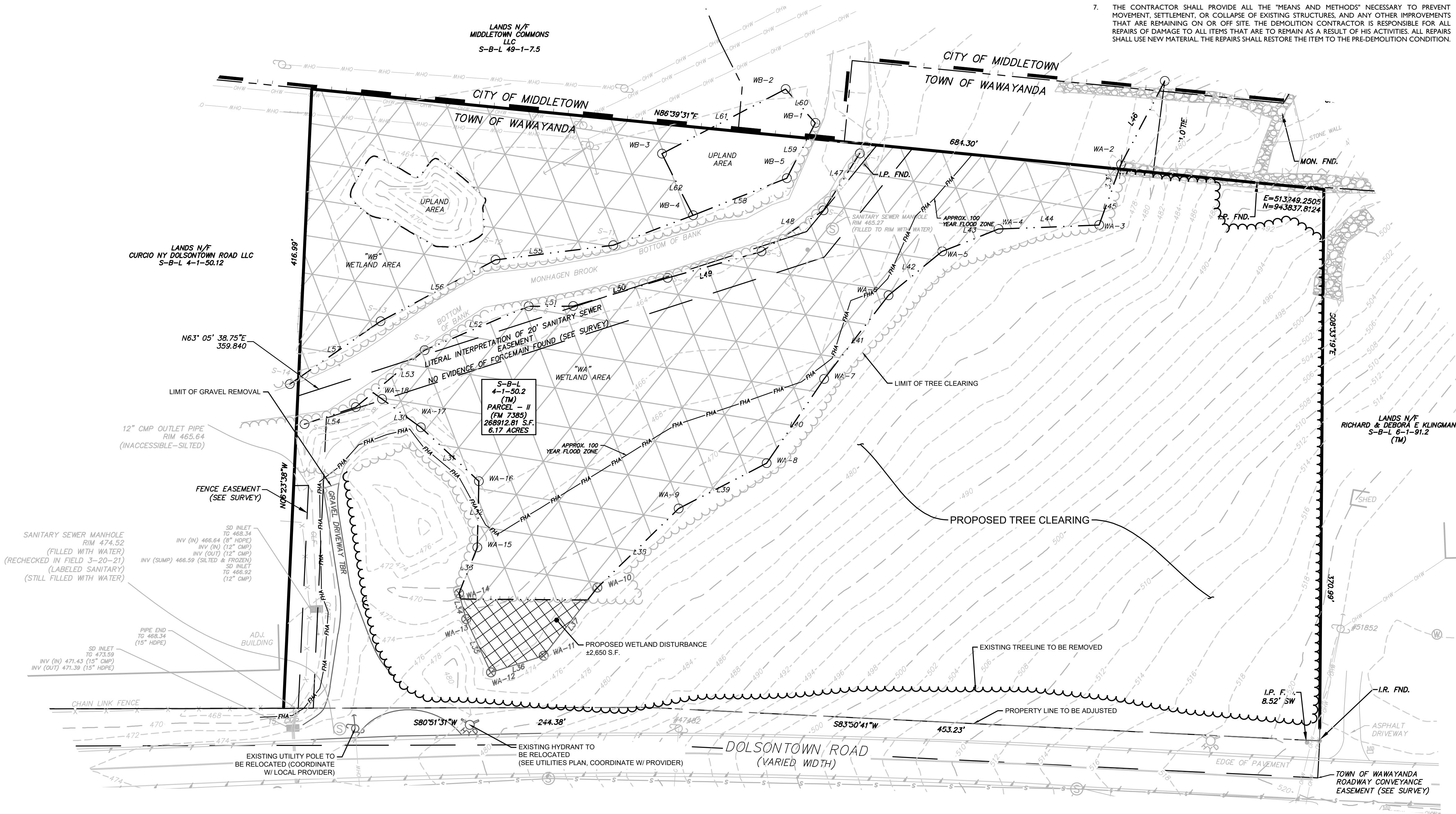
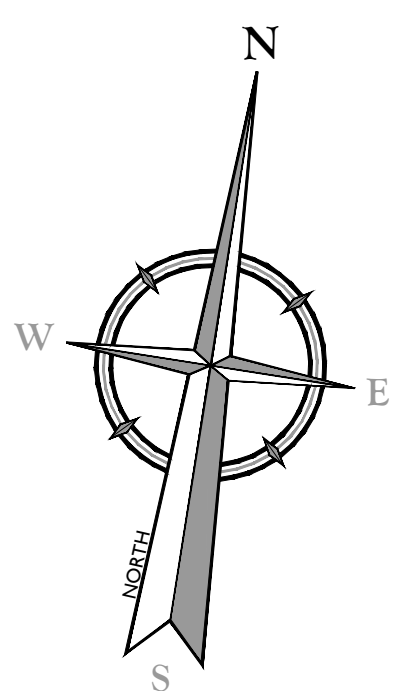
- ROCK EXCAVATIONS (AS APPLICABLE) WILL BE PERFORMED BY MECHANICAL MEANS ONLY. USE OF EXPLOSIVES IS PROHIBITED. ALL THE REQUIRED PERMITS AND CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION 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 THE FEDERAL, STATE AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING. 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 SUITABLY 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.

EXISTING WETLANDS:

±85,040 SF / 1.95 ACRES
 PROPOSED WETLAND DISTURBANCE:
 ±2,650 SF / ±0.06 ACRES

DRAWING LEGEND

PROPERTY BOUNDARY	—
EXISTING CURB	—
DEPRESSED CURB	—
PAVEMENT STRIPING	—
OVERHEAD WIRES	—
EASEMENTS	—
MAJOR CONTOUR	—
MINOR CONTOUR	—
STORMWATER PIPES	—
TREEROW / 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	—
WETLANDS AREA	—
WETLANDS AREA TO BE REMOVED	—



REFERENCE NOTE:
 1. EXISTING SITE INFORMATION TAKEN FROM MAP REFERENCE "OUTBOUND & TOPOGRAPHIC SURVEY PLAN PREPARED FOR DOLSONTOWN ROAD - SECTION 4 - BLOCK 1 - LOT 50.2 & 50.32" PREPARED BY JOHN W. McCORD, SR. DATED 01/25/2021.



TOWN OF WAWAYANDA PLANNING BOARD

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Andrew B. Fetherston
 NEW YORK LICENSED PROFESSIONAL ENGINEER
 LICENSE NUMBER: 073555-01
 COLLIER'S ENGINEERING & DESIGN CT, P.C.
 N.Y. C.O.A.#: 0077609

PRELIMINARY SITE PLANS
 FOR
DEWPOINT NORTH LLC
 SECTION 4,
 BLOCK 1
 LOT 50.2
 TOWN OF WAWAYANDA
 ORANGE COUNTY
 NEW YORK STATE

Colliers Engineering & Design
 NEWBURGH
 555 Hudson Valley Avenue
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 New Windsor, NY 12553
 Phone: 845.564.4495
 COLLIER'S ENGINEERING & DESIGN CT, P.C.
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 ENGINEERING & LAND SURVEYING

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	01/10/2022	MAS	CDR
PROJECT NUMBER:	DRAWING NAME:		
20005912A	C-DEMO-NRTH		

EXISTING CONDITIONS & DEMOLITION PLAN

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BULK TABLE

ZONING DISTRICT: MC-1 ; (MIXED COMMERCIAL)
SPECIAL USE SUBJECT TO SITE PLAN APPROVAL ; WAREHOUSE

MINIMUM	REQUIRED	EXISTING	PROPOSED	REMARKS
LOT AREA	2 ACRES	6.17 ACRES (268,913 SQ. FT.)	6.09 ACRES (265,660 SQ. FT.)	OK
FRONT YARD SETBACK	50 FEET	N/A	90.15 FEET	OK
REAR YARD SETBACK	30 FEET	N/A	67.98 FEET	OK
SIDE YARD SETBACK				
ONE	15 FEET	N/A	16.0 FEET	OK
BOTH	35 FEET	N/A	525.97 FEET (509.97' + 16')	OK
LOT WIDTH	100 FEET	N/A	695 FEET	OK
MAXIMUM				
BUILDING HEIGHT	65 FEET	N/A	55 FEET	OK
LOT COVERAGE	70%	N/A	33% (±87,854 SQ. FT.)	OK
BUILDING COVERAGE	50%	N/A	11.9% (32,000 SQ. FT.)	OK

TAX LOT:

4-1-502
±268,913 SQ. FT.
±6.17 ACRES

OWNER/APPLICANT:

DEWPOINT NORTH LLC
1 INTERNATIONAL BOULEVARD - SUITE 410
MAHWAH, NEW JERSEY 07430

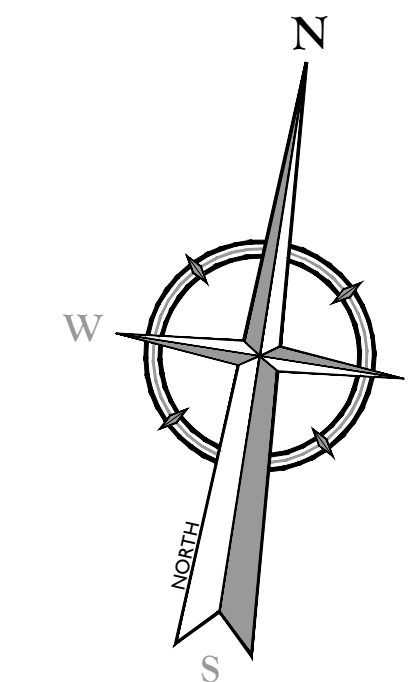
PARKING REQUIREMENTS:

OFFICE USE:
1 PER 300 SF OF FLOOR AREA
2,500 SF = 9 SPACES REQUIRED

WAREHOUSE USE:
1 PER 5,000 SF OF FLOOR AREA (ESTIMATED NEED PER APPLICANT)
32,000 SF = 7 SPACES REQUIRED

TOTAL PARKING REQUIRED = 16 SPACES
TOTAL PARKING PROVIDED = 33 SPACES

NOTE:
1. ITE PARKING GENERATION MANUAL:
WAREHOUSING USE - AVERAGE RATE OF 0.39 SPACES PER 1,000 S.F. GROSS FLOOR AREA
32,000 GROSS SQ. FT. / 1,000 X 0.39 = 13 SPACES



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PRELIMINARY SITE PLANS

FOR
DEWPOINT NORTH LLC

SECTION 4
BLOCK 1
LOT 50.2

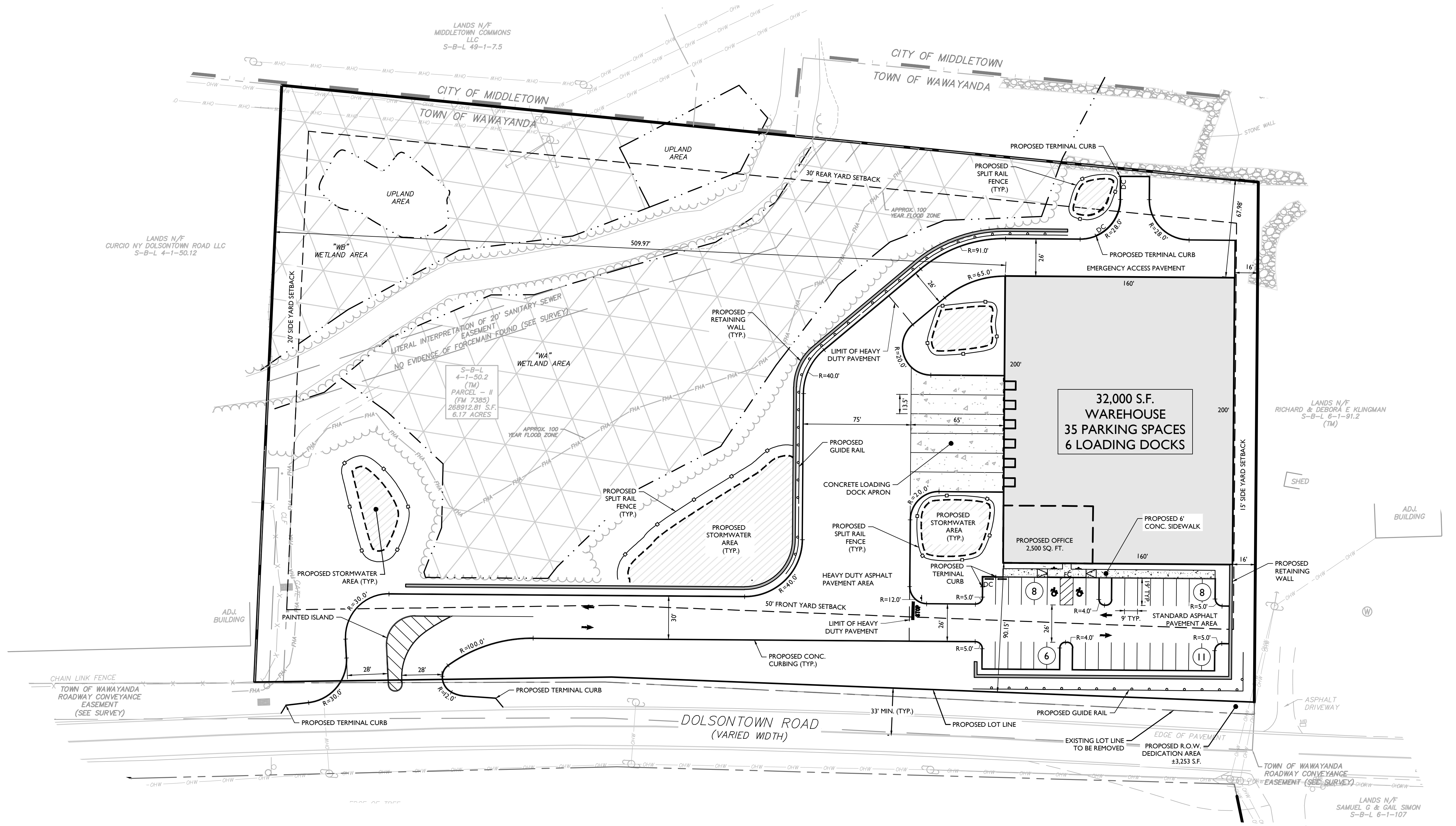
TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

NEWBURGH
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Suite 101
New Windsor, NY 12553
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COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTANTS
ENGINEERING & LAND SURVEYING

SCALE: AS SHOWN DATE: 01/10/2022 DRAWN BY: MAS CHECKED BY: CDR
PROJECT NUMBER: 20005912A DRAWING NAME: C-LAY1-NRTH

SHEET TITLE: DIMENSION PLAN

SHEET NUMBER: 03 of 16



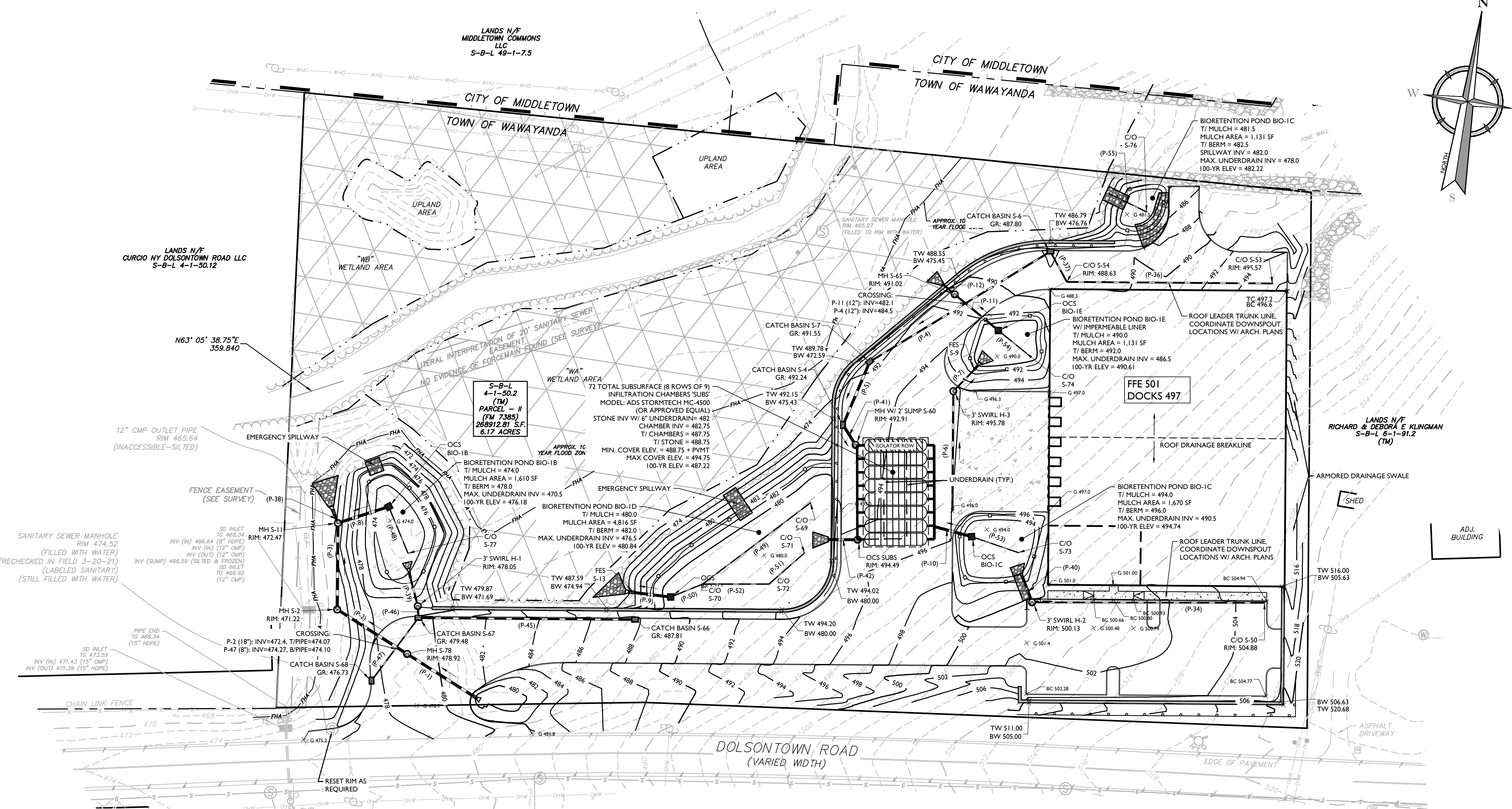
EXISTING	LEGEND	PROPOSED
12+00	TRaverse LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)	12+00 13+00
---	RIGHT OF WAY LINE	---
---	PROPERTY LINE	---
---	EDGE OF PAVEMENT	---
---	CURB	---
---	DEPRESSED CURB	---
---	SIDEWALK	---
---	FENCES	---
---	TREELINE	---
---	ROADWAY SIGNS	---
---	WETLAND LINE	---
---	MUNICIPAL BOUNDARY LINE	---
---	STALL COUNT	10
---	ADA ACCESSIBLE STALL	♿
---	DEPRESSED CURB AND ADA RAMP	HC
---	DIRECTION OF TRAFFIC FLOW	→



TOWN OF WAWAYANDA
PLANNING BOARD

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

EXISTING		PROPOSED	
	TRAVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)		12+00
	RIGHT OF WAY LINE		13+00
	PROPERTY LINE		
	EDGE OF PAVEMENT		
	CURB		
	BACK		
	DEPRESSED CURB		
	SIDEWALK		
	FENCES		
	TRELLIS		
	ROADWAY SIGNS		
	WETLAND LINE		
	MUNICIPAL BOUNDARY LINE		
	CATCH BASIN		
	DRAIN INLET		
	STORM MANHOLE		
	SANITARY MANHOLE		
	FLARED END SECTION		
	HEADWALL		
	HYDRANT		
	POLE MOUNTED LIGHT		
	CONTOURS		
	SPOT ELEVATION		
	DIRECTION OF OVERLAND FLOW		
	TOP OF CURB ELEVATION		
	BOTTOM OF CURB ELEVATION		
	TOP OF DEPRESSED CURB ELEVATION		
	TOP OF WALL GRADE ELEVATION		
	BOTTOM OF WALL GRADE ELEVATION		
	FFE = FIRST FLOOR ELEVATION		



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ADA INSTRUCTIONS TO CONTRACTOR:

- CONTRACTOR SHALL EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA ACCESSIBLE COMPONENTS FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, MUST COMPLY WITH THE LATEST ADA STANDARDS FOR ACCESSIBLE DESIGN. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACE, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EGRESS, SHALL COMPLY WITH THESE ADA CODE REQUIREMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - PARKING SPACES AND PARKING AISLES - SLOPE SHALL NOT EXCEED 1/48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.
 - CURB RAMPS - SLOPES SHALL NOT EXCEED 1:12 (8.3%).
 - LANDINGS - SHALL BE PROVIDED AT EACH END OF RAMPS, SHALL PROVIDE POSITIVE DRAINAGE, AND SHALL NOT EXCEED 1/48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.
 - PATH OF TRAVEL ALONG ACCESSIBLE ROUTE - SHALL PROVIDE A 36 INCH OR GREATER UNOBSTRUCTED WIDTH OF TRAVEL. (CAR OVERHANGS CANNOT REDUCE THIS MINIMUM WIDTH). THE SLOPE SHALL BE NO GREATER THAN 1:20 (5.0%) IN THE DIRECTION OF TRAVEL, AND SHALL NOT EXCEED 1/48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN CROSS SLOPE.
 - WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:20 (5.0%), AN ADA RAMP WITH A MAXIMUM SLOPE OF 1:12 (8.3%), FOR A MAXIMUM DISTANCE OF 30 FEET, SHALL BE PROVIDED. THE RAMP SHALL HAVE ADA HAND RAILS AND "LEVEL" LANDINGS ON EACH END THAT ARE SLOPED NO MORE THAN 1/48 (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE.
 - DOORWAYS - SHALL HAVE A "LEVEL" LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED NO MORE THAN 1/48 (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA SHALL BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT WHERE OTHER WISE PERMITTED BY ADA STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS (SEE APPLICABLE CODE SECTIONS).
- IT IS RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION WITH THE LOCAL BUILDING CODE OFFICIAL PRIOR TO COMMENCING WORK.

GRADING NOTES:

- PROPOSED GRADE ELEVATIONS SHOWN AT BUILDING LINE ARE GROUND ELEVATIONS.
- PROPOSED SPOT ELEVATIONS IN PAVEMENT AREAS ARE TOP OF FINISHED PAVEMENT.
- PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING FOUNDATION.

DRAINAGE Structure Table						
Structure I.D.	Description	Rim/Grate	Pipes (In)	Inverts (In)	Pipes (Out)	Inverts (Out)
BIO-1B	48 in. x 48 in. OCS	476.50	6" PVC UNDERDRAIN	470.50	18" HDPE	470.50
BIO-1C	48 in. x 48 in. OCS	494.50	6" PVC UNDERDRAIN	490.17	18" HDPE	484.30
BIO-1D	48 in. x 48 in. OCS	480.50	6" PVC UNDERDRAIN	475.38	18" HDPE	475.38
BIO-1E	48 in. x 48 in. OCS	490.50	6" PVC UNDERDRAIN	486.26	12" HDPE	486.10
H-1	48 in. dia. CYLINDER MH	478.05	12" HDPE	474.10	12" HDPE	474.10
H-2	48 in. dia. CYLINDER MH	500.13	10" HDPE	495.40	12" HDPE	495.40
H-3	48 in. dia. CYLINDER MH	495.78	12" TRENCH DRAIN	493.03	10" HDPE	493.03
S-1	18 inch Flared End Section	477.48			18" HDPE	478.00
S-2	48 in. dia. CYLINDER MH	471.22	18" HDPE	471.36	18" HDPE	471.36
S-4	30 in. x 48 in. Catch Basin	492.24	18" HDPE	483.23	18" HDPE	483.23
S-6	30 in. x 48 in. Catch Basin	487.80	10" HDPE	485.13	12" HDPE	485.13
S-7	30 in. x 48 in. Catch Basin	491.55	12" HDPE	483.70	18" HDPE	483.70
S-9	12 inch Flared End Section	487.90	10" HDPE	491.00		
S-11	48 in. dia. CYLINDER MH	472.47	18" HDPE	470.14	18" HDPE	470.14
S-13	18 inch Flared End Section	476.43	18" HDPE	474.80		
S-50	8 in. Clean Out	504.88			10" HDPE	500.22
S-53	8 in. Clean Out	495.57			10" HDPE	493.00
S-54	8 in. Clean Out	488.63	10" HDPE	485.60	10" HDPE	485.60
S-55	18 inch Flared End Section	468.08	18" HDPE	470.08		
S-57	12 inch Flared End Section	475.10	12" HDPE	474.00		

DRAINAGE Structure Table						
Structure I.D.	Description	Rim/Grate	Pipes (In)	Inverts (In)	Pipes (Out)	Inverts (Out)
S-59	12 inch Flared End Section	496.10	12" HDPE	495.00		
S-60	48 in. dia. CYLINDER MH	492.91	18" HDPE	483.07		
S-65	48 in. dia. CYLINDER MH	491.02	12" HDPE	480.00	12" HDPE	475.65
S-66	30 in. x 48 in. Catch Basin	487.81			12" HDPE	477.34
S-67	30 in. x 48 in. Catch Basin	479.48	12" HDPE	474.14	12" HDPE	474.14
S-68	30 in. x 48 in. Catch Basin	476.73			8" HDPE	474.40
S-69	6 in. Clean Out	480.01			6" PVC UNDERDRAIN	476.50
S-70	6 in. Clean Out	480.08	6" PVC UNDERDRAIN	475.59	6" PVC UNDERDRAIN	475.59
S-71	6 in. Clean Out	480.01	6" PVC UNDERDRAIN	475.59	6" PVC UNDERDRAIN	476.36
S-72	6 in. Clean Out	480.02	6" PVC UNDERDRAIN	476.04	6" PVC UNDERDRAIN	476.04
S-73	6 in. Clean Out	494.00	6" PVC UNDERDRAIN	490.50		
S-74	6 in. Clean Out	490.00	6" PVC UNDERDRAIN	486.50		
S-76	6 in. Clean Out	481.50	6" PVC UNDERDRAIN	478.00		
S-77	6 in. Clean Out	474.00	6" PVC UNDERDRAIN	470.50		
S-78	48 in. dia. CYLINDER MH	478.92	18" HDPE	474.80	18" HDPE	472.50
SLUBS	48 in. dia. CYLINDER MH	494.49			18" HDPE	480.40

DRAINAGE Pipe Table					
Pipe I.D.	Description	Length	Invert Up	Invert Dn	Slope
P-1	18"HDPE	52'	478.00	474.80	6.14%
P-2	18"HDPE	54'	472.50	471.36	2.03%
P-3	18"HDPE	58'	471.36	470.20	1.98%
P-4	12"HDPE	143'	485.13	483.70	1.00%
P-5	18"HDPE	46'	483.70	483.23	1.00%
P-6	12" TRENCH DRAIN	81'	494.00	493.03	1.20%
P-7	10"HDPE	20'	493.03	491.00	10.04%
P-8	18"HDPE	36'	470.50	470.14	1.00%
P-9	18"HDPE	25'	475.38	474.80	2.34%
P-10	18"HDPE	26'	484.30	483.00	5.06%
P-11	12"HDPE	38'	486.10	480.00	15.89%
P-12	12"HDPE	111'	475.65	475.45	1.82%
P-34	10"HDPE	157'	500.22	495.40	3.06%
P-36	10"HDPE	139'	493.00	485.60	5.31%
P-37	10"HDPE	23'	485.60	485.13	2.02%
P-38	18"HDPE	6'	470.14	470.08	1.00%
P-39	12"HDPE	20'	474.10	474.00	0.50%
P-40	12"HDPE	15'	495.40	495.00	2.64%
P-41	18"HDPE	16'	483.23	483.07	1.00%
P-42	18"HDPE	20'	480.40	480.00	2.03%

DRAINAGE Pipe Table					
Pipe I.D.	Description	Length	Invert Up	Invert Dn	Slope
P-45	12"HDPE	147'	477.34	474.14	2.18%
P-46	12"HDPE	8'	474.14	474.10	0.50%
P-47	8"HDPE	53'	474.40	474.14	0.50%
P-48	6" PVC UNDERDRAIN	34'	470.50	470.50	0.00%
P-49	6" PVC UNDERDRAIN	91'	476.50	475.59	1.00%
P-50	6" PVC UNDERDRAIN	23'	475.59	475.38	0.90%
P-51	6" PVC UNDERDRAIN	32'	476.36	476.04	1.00%
P-52	6" PVC UNDERDRAIN	45'	476.04	475.59	1.00%
P-53	6" PVC UNDERDRAIN	33'	490.50	490.17	1.00%
P-54	6" PVC UNDERDRAIN	24'	486.50	486.26	1.00%
P-55	6" PVC UNDERDRAIN	28'	478.00	477.72	1.00%

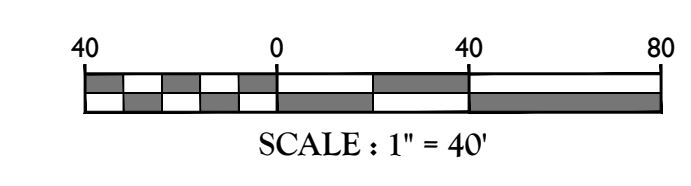
PRELIMINARY SITE PLANS
FOR
DEWPOINT NORTH LLC

SECTION 4,
BLOCK 1,
LOT 50.2

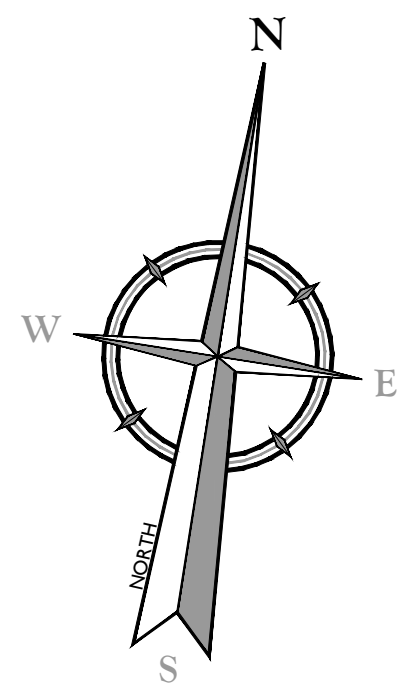
TOWN OF WAWAYANDA
ORANGE COUNTY
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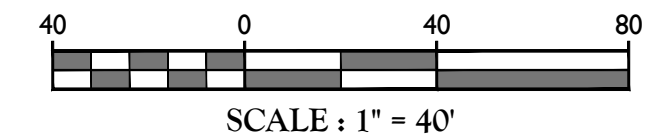
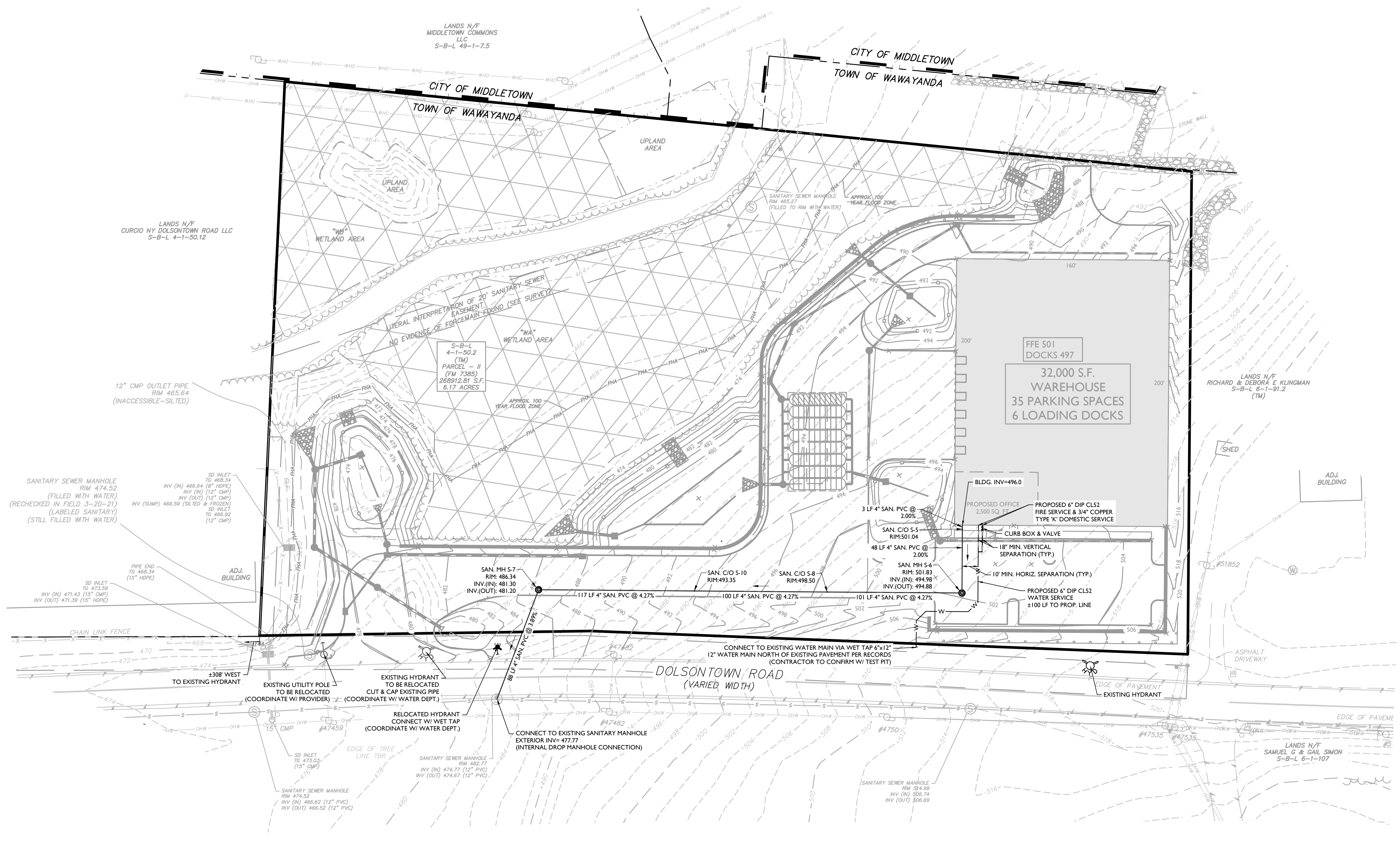
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PROJECT NUMBER: 20009912A DRAWING NAME: C-GRAD-NRTH
SHEET TITLE: GRADING PLAN
SHEET NUMBER: 04 of 16



NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



EXISTING	LEGEND	PROPOSED
	TRAVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)	
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EDGE OF PAVEMENT	
	CURB	
	DEPRESSED CURB	
	SIDEWALK	
	FENCES	
	TREELINE	
	ROADWAY SIGNS	
	WETLAND LINE	
	MUNICIPAL BOUNDARY LINE	
	8' INLET	
	E' INLET	
	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

REV.	DATE	DESCRIPTION
1	02/04/22	REVISED WETLAND IMPACT REDUCTION & DETAILS FOR GBS SUBMISSION.

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF ARTICLE 145, SECTION 7309, SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Andrew B. Fetherston
NEW YORK LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 073555-01
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.Y. C.O.A.#: 0077609

PRELIMINARY SITE PLANS
FOR
DEWPOINT NORTH
LLC

SECTION 4,
BLOCK 1,
LOT 50.2
TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

NEWBURGH
555 Hudson Valley Avenue
Suite 101
New Windsor, NY 12553
Phone: 845.564.4495
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DOING BUSINESS AS MASER CONSULTANTS
ENGINEERING & LAND SURVEYING

SCALE: AS SHOWN	DATE: 01/10/2022	DRAWN BY: MAS	CHECKED BY: CDR
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PROJECT NUMBER: 20005912A	DRAWING NAME: C-UTIL-NRTH
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UTILITIES PLAN

SHEET NUMBER: 05 of 16

GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES

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 UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN FOURTEEN (14) DAYS FOR DISTURBANCES LESS THAN FIVE (5) ACRES AND SEVEN (7) DAYS FOR DISTURBANCES GREATER THAN FIVE (5) ACRES, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS 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 TO BE SEED OR SODDED 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 STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL OR AS AMENDED.
5. A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUBBASE SHALL BE INSTALLED WITHIN FIVE (5) DAYS OF THE PRELIMINARY GRADING.
6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
7. ANY STEEP SLOPES RECEIVING PIPELINE 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 INITIAL SITE 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 SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
10. AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE THE SUITABLE CONDITIONS, NON-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 ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH STATE STANDARDS.
13. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED 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 MAY OCCUR BELOW STORMWATER OUTFALLS 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. THEY SHALL BE PLACED IN THE PROXIMITY OF THE CONSTRUCTION ENTRANCE AND STAGING AREAS AND SHALL BE USED PRIOR TO EXITING THE PROJECT SITE. THE LOCATION SHALL BE IN A PRACTICAL, 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 BY 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 CONTROL SEDIMENT BEYOND THOSE 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 REMOVED, WHEN ALL CONSTRUCTION ACTIVITY IDENTIFIED IN THE SWPPP HAS BEEN COMPLETED, ALL AREAS OF DISTURBANCE HAVE ACHIEVED FINAL STABILIZATION** AND ALL POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES HAVE BEEN CONSTRUCTED 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.

MAINTENANCE PLAN DURING CONSTRUCTION:

INSPECTION AND MAINTENANCE SHALL BE PERFORMED IN CONFORMANCE WITH GP-0-20-001 OR AS AMENDED. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED AND INSTALLED FOR THE PROJECT. THE SEDIMENT TRAPS WILL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT REACHES 25% OF ITS CAPACITY. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES APPROXIMATELY 6" DEEP AT THE FENCE. THE SILT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE LANDSCAPE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

MAINTENANCE AGREEMENT NOTE:

THE OWNER/APPLICANT SHALL ENTER INTO AN ENFORCEABLE MAINTENANCE AGREEMENT WITH THE MUNICIPALITY (IF AN MSA COMMUNITY) RELATED TO MAINTENANCE OF STORMWATER FACILITIES. THE OWNER/APPLICANT IS RESPONSIBLE TO PERFORM ALL REQUIRED MAINTENANCE BOTH DURING CONSTRUCTION AND LONG-TERM. THE NATURE OF THE AGREEMENT IS TO ALLOW THE MUNICIPALITY TO PERFORM MAINTENANCE AT THEIR OPTION SHOULD THE OWNER/APPLICANT FAIL TO ADEQUATELY MAINTAIN THE SYSTEM AS DETERMINED BY THE MUNICIPAL ENGINEER. MAINTENANCE OF THE STORMWATER SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED SWPPP AND DETAIL SHEETS.

TOWN OF WAWAYANDA PLANNING BOARD

SOIL EROSION & SEDIMENT CONTROL PLAN

SCALE: AS SHOWN DATE: 01/10/2022 DRAWN BY: MAS CHECKED BY: CDR
PROJECT NUMBER: 20000912A DRAWING NUMBER: C-SEC-NRTH

SHEET TITLE: SOIL EROSION & SEDIMENT CONTROL PLAN

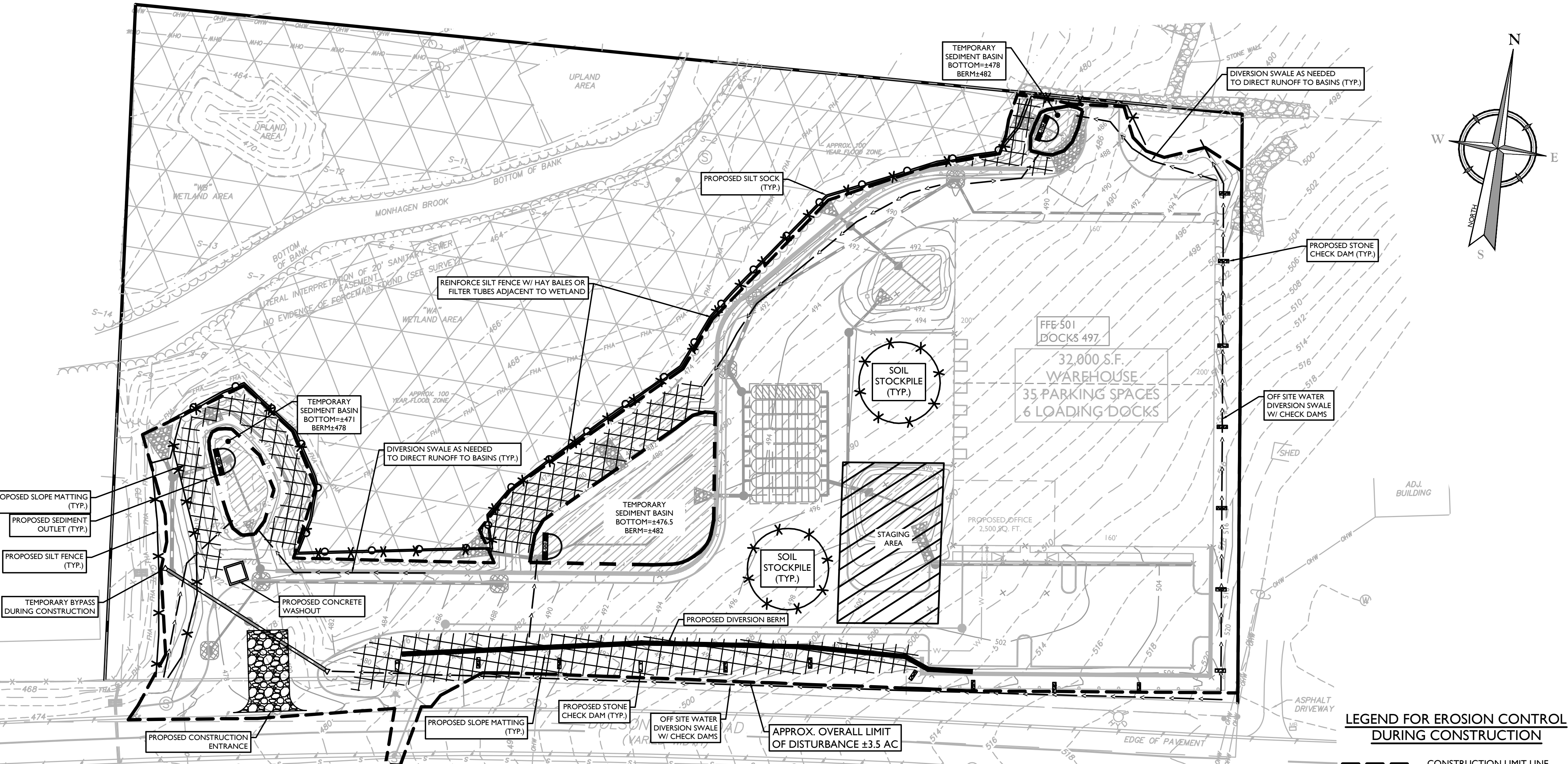
SHEET NUMBER: 06 of 16

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NOT TO SCALE

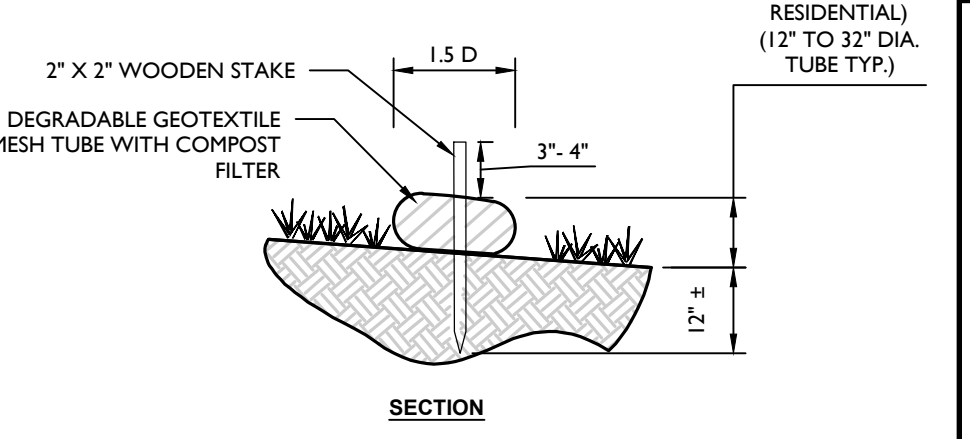
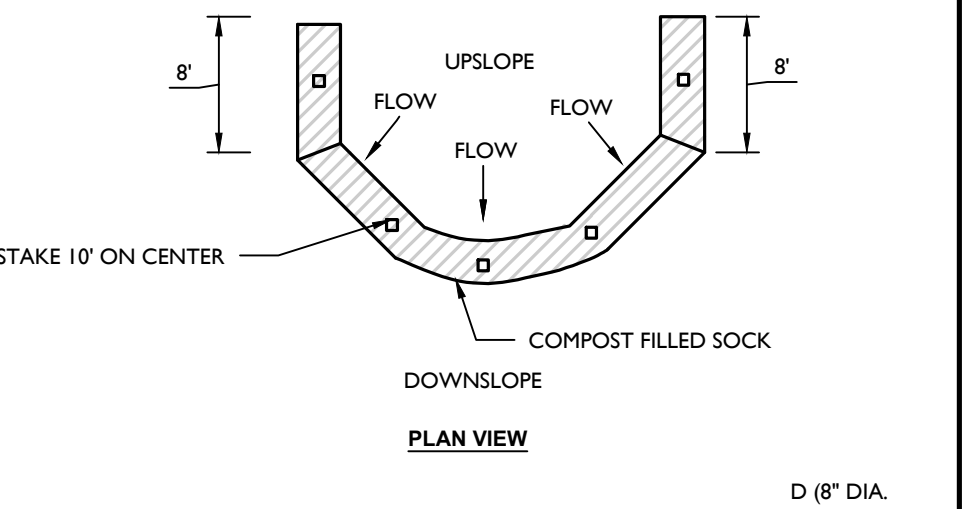


LEGEND FOR EROSION CONTROL DURING CONSTRUCTION

- CONSTRUCTION LIMIT LINE
- x- SILT FENCE
- SILT SOCK
- ORANGE CONSTRUCTION FENCE
- ◻ STORM INLET SEDIMENT TRAP
- ◻ STABILIZED CONSTRUCTION ENTRANCE
- ◻ SEDIMENT TRAP OUTLET
- TEMPORARY SWALE
- TEMPORARY SEDIMENT BASIN
- S.P. MATERIAL STOCKPILE
- ◻ CHECK DAM
- ◻ SLOPE MATTING

303 (D) - SEGMENTS IMPAIRED BY CONSTRUCTION RELATED POLLUTANTS

1. FOR CONSTRUCTION SITE THAT DIRECTLY DISCHARGE TO ONE OF THE 303(D) SEGMENTS LISTED IN APPENDIX E OF THE GP-0-20-001 OR IS LOCATED IN ONE OF THE WATERSHEDS LISTED IN APPENDIX E OF THE GP-0-20-001, 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-0-20-001, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN SEVEN (7) DAYS.
3. THE PROJECT SITE DISCHARGES TO THE MONHAGEN BROOK LISTED IN APPENDIX E OF THE GP-0-20-001.



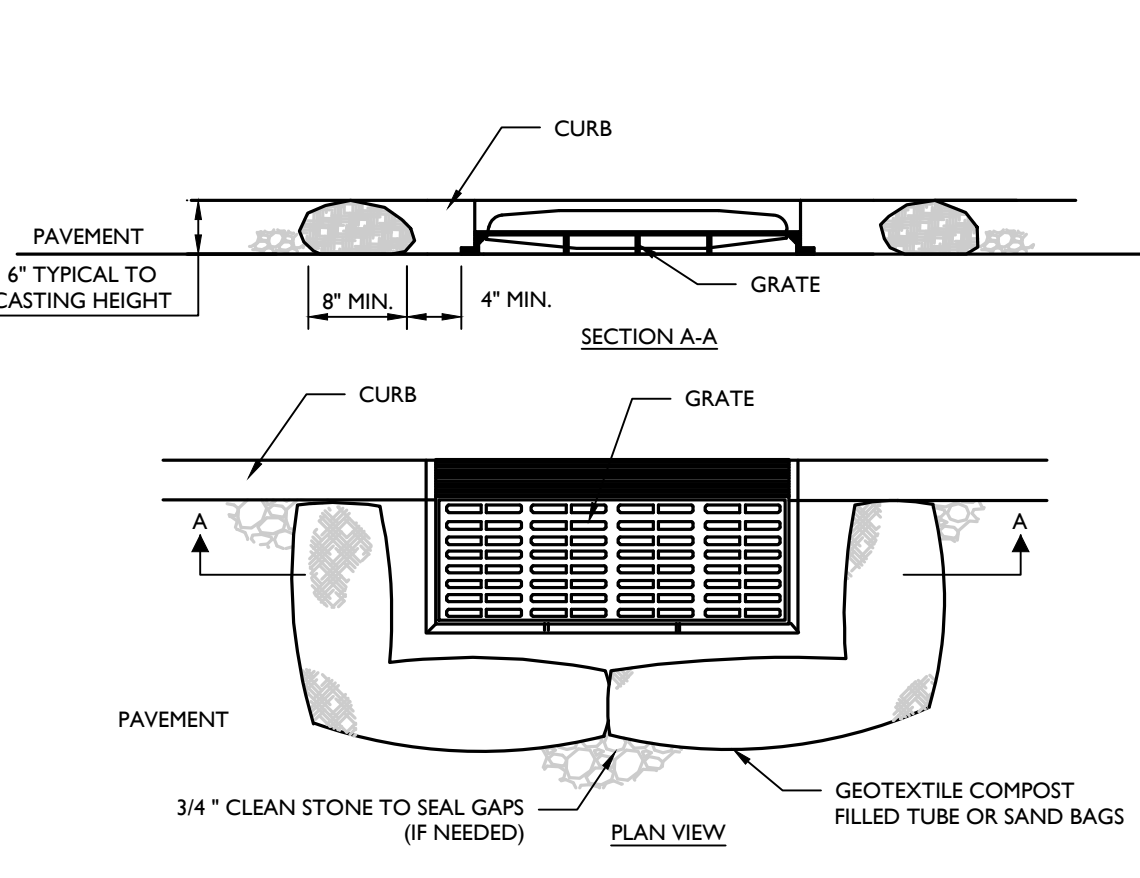
DIA. (in.)	SLOPE%									
	2	5	10	20	25	33	50			
8	225*	200	100	50	20	-	-			
12	250	225	125	65	50	40	25			
18	275	250	150	70	55	45	30			
24	350	275	200	130	100	60	35			
32	450	325	275	150	120	75	50			

*Length in feet

- NOTES:**
1. ALL MATERIAL TO MEET **FILTREXX SILTBOX** SPECIFICATIONS OR APPROVED EQUAL.
 2. COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

COMPOST FILTER SOCK DETAIL

NOT TO SCALE MCNY-SOIL-EROS-1200 05/01/17



INLET PROTECTION (FILTER BARRIER) DETAIL

NOT TO SCALE MCNY-SOIL-EROS-1500

- NOTES:**
1. GEOTEXTILE TO BE WOVEN POLYPROPYLENE PRODUCT, OR APPROVED EQUAL.
 2. FILLER CORE MAY BE SAND, COMPOST, OR PEA GRAVEL COMPLETELY CONTAINED WITHIN GEOTEXTILE SEAMS, CLOSED BY SUITABLE MECHANICAL MEANS TO PREVENT LEAKAGE OF FILLER.
 3. WHERE NO CURB IS PRESENT, BARRIER SHALL COMPLETELY ENCLOSE THE DRAIN INLET.
 4. INLET GRATE OPENING IS TO BE KEPT CLEAR OF OBSTRUCTIONS AT ALL TIMES.
 5. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR/24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.
 6. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE PROJECT ENGINEER.
 7. INSPECTIONS SHALL BE FREQUENT, MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS THE INLET HAS REACHED FINAL STABILIZATION.

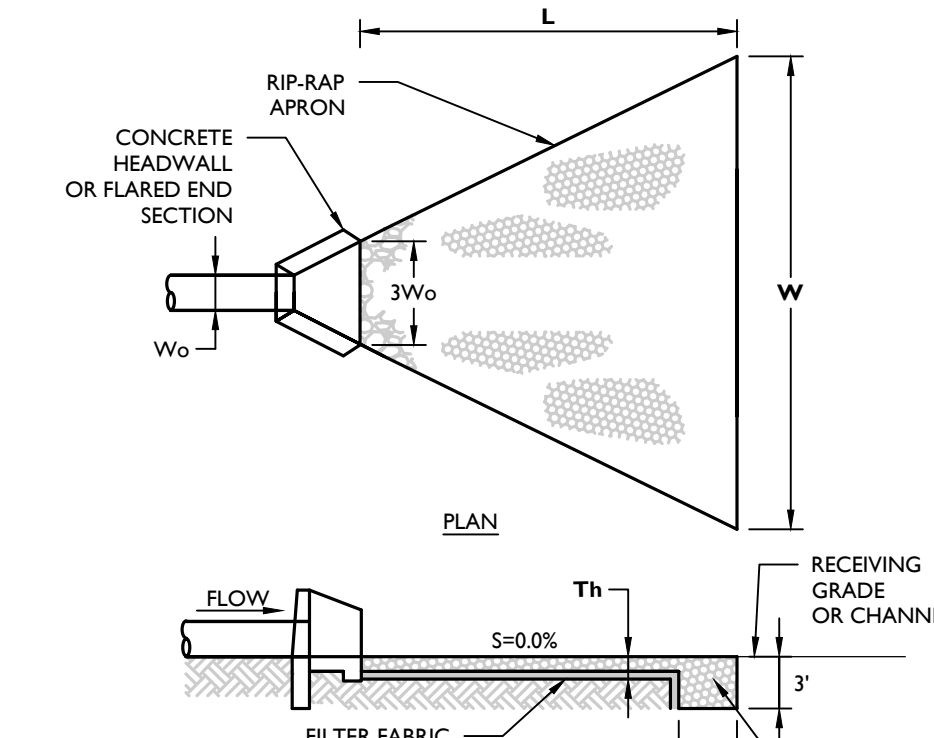
CONDUIT OUTLET PROTECTION DETAIL



NOTES:

1. SEE PLAN FOR APRON DIMENSIONS.
2. SIDE SLOPE SHALL BE 2:1 OR FLATTER. THE BOTTOM GRADE SHALL BE LEVEL (0% SLOPE). THERE SHALL BE NO FALL AT THE END OF APRON TO THE RECEIVING SURFACE.

NOT TO SCALE MCNY-SOIL-EROS-1600 07/01/19

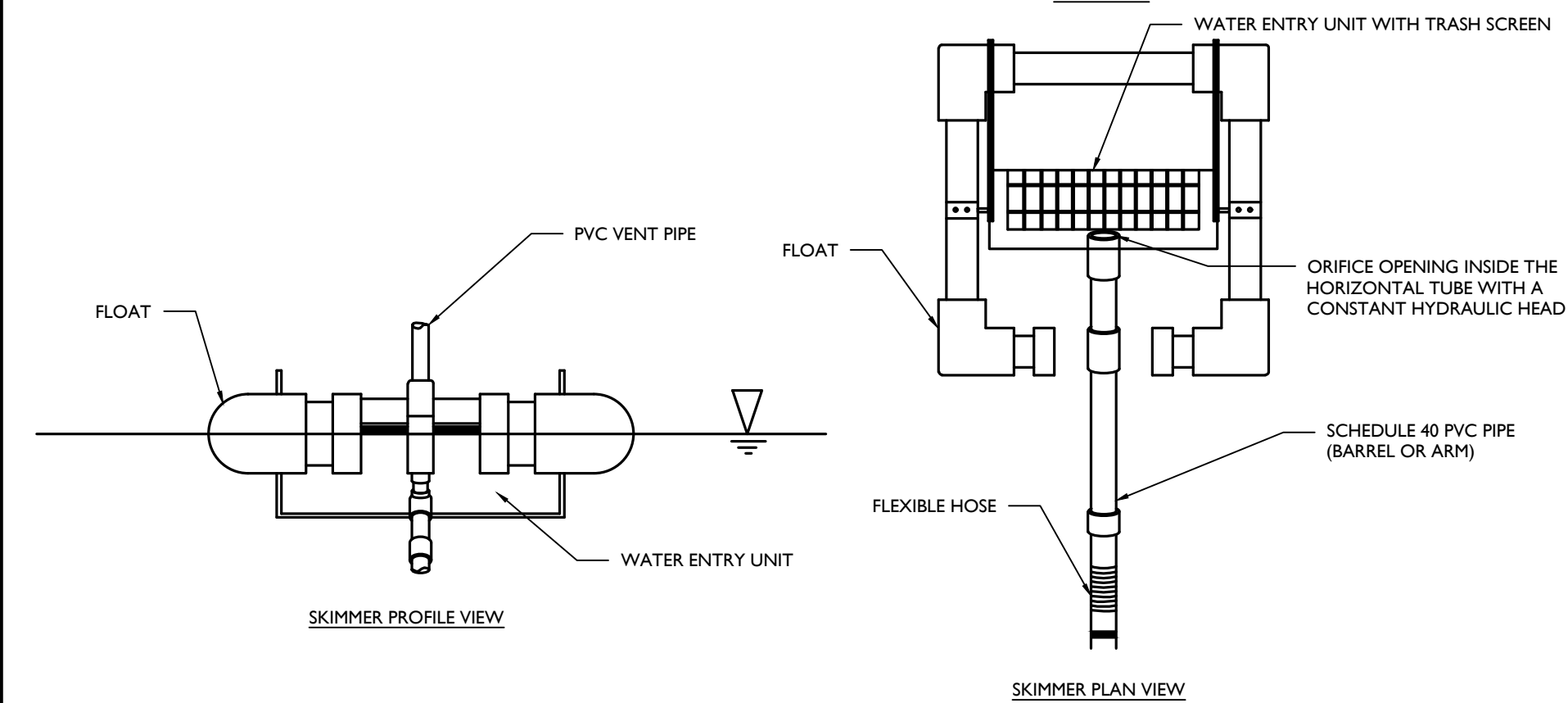
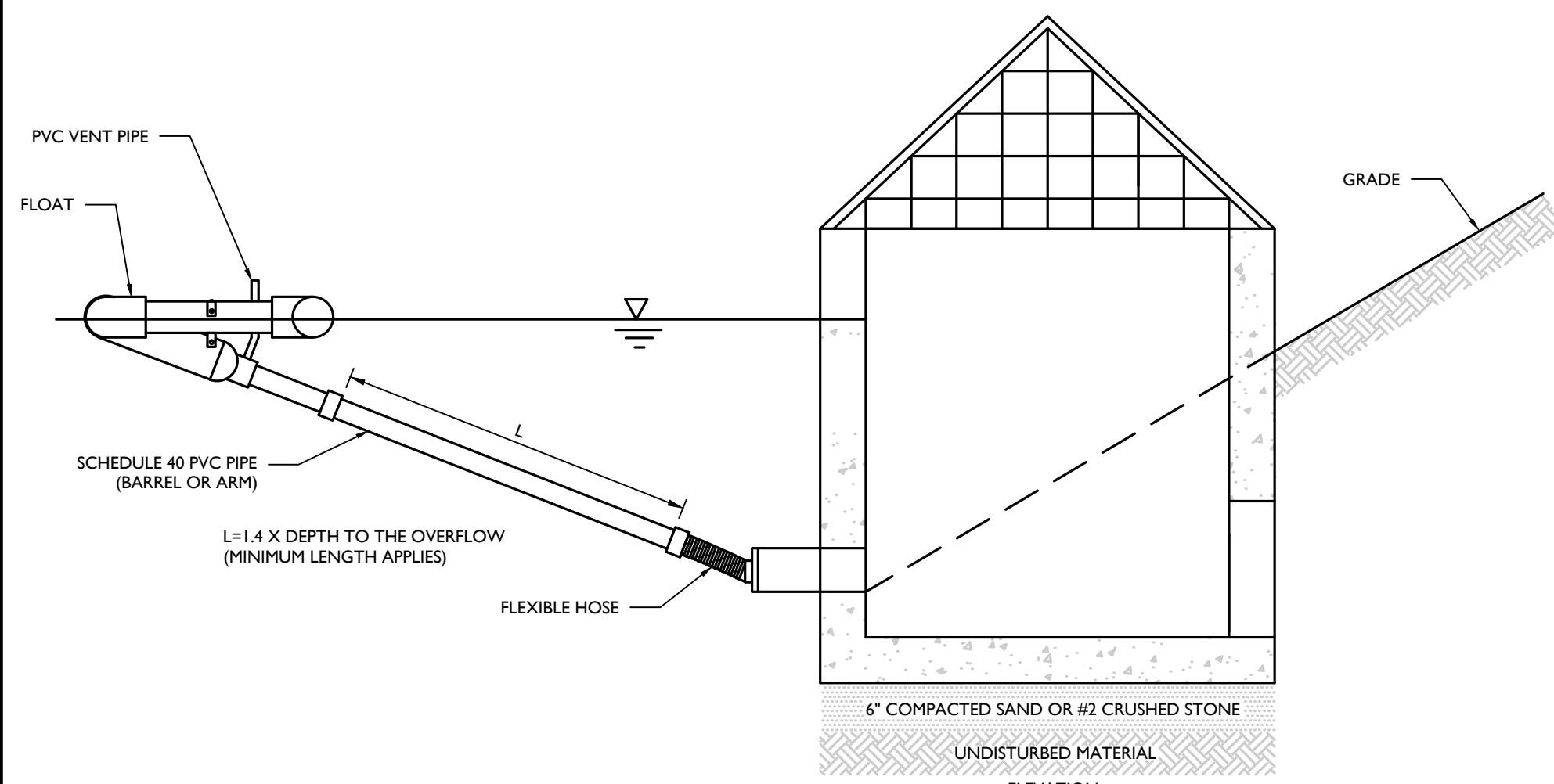


TOPSOIL STOCKPILE DETAIL

NOTES:

1. ALL STOCKPILES SHALL NOT TO BE LOCATED WITHIN 50 FEET OF A FLOORPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY.

NOT TO SCALE MCNY-SOIL-EROS-2500 07/01/19

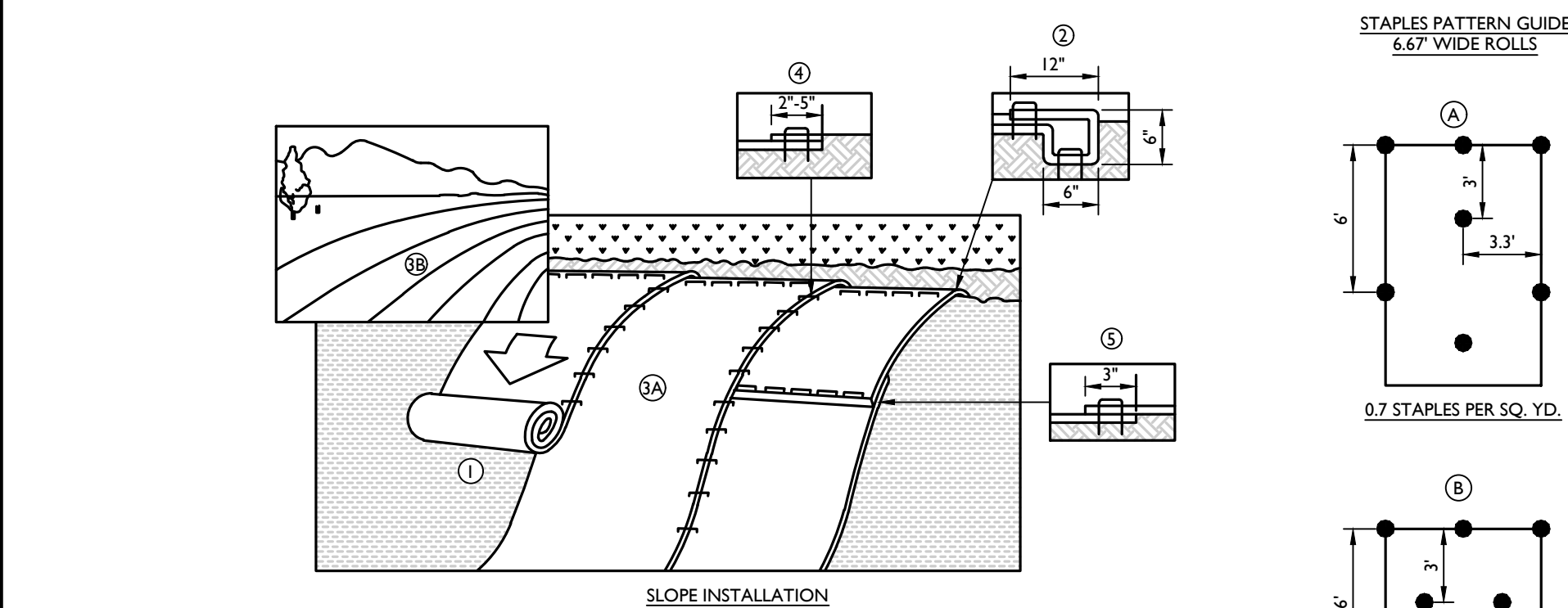


GENERAL NOTES:

1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS PROVIDED BY MANUFACTURER FOR EACH SIZE.

FAIRCLOTH SKIMMER DISCHARGE SYSTEM WITH OUTLET STRUCTURE DETAIL

NOT TO SCALE MCNY-SOIL-EROS-2700 07/01/19

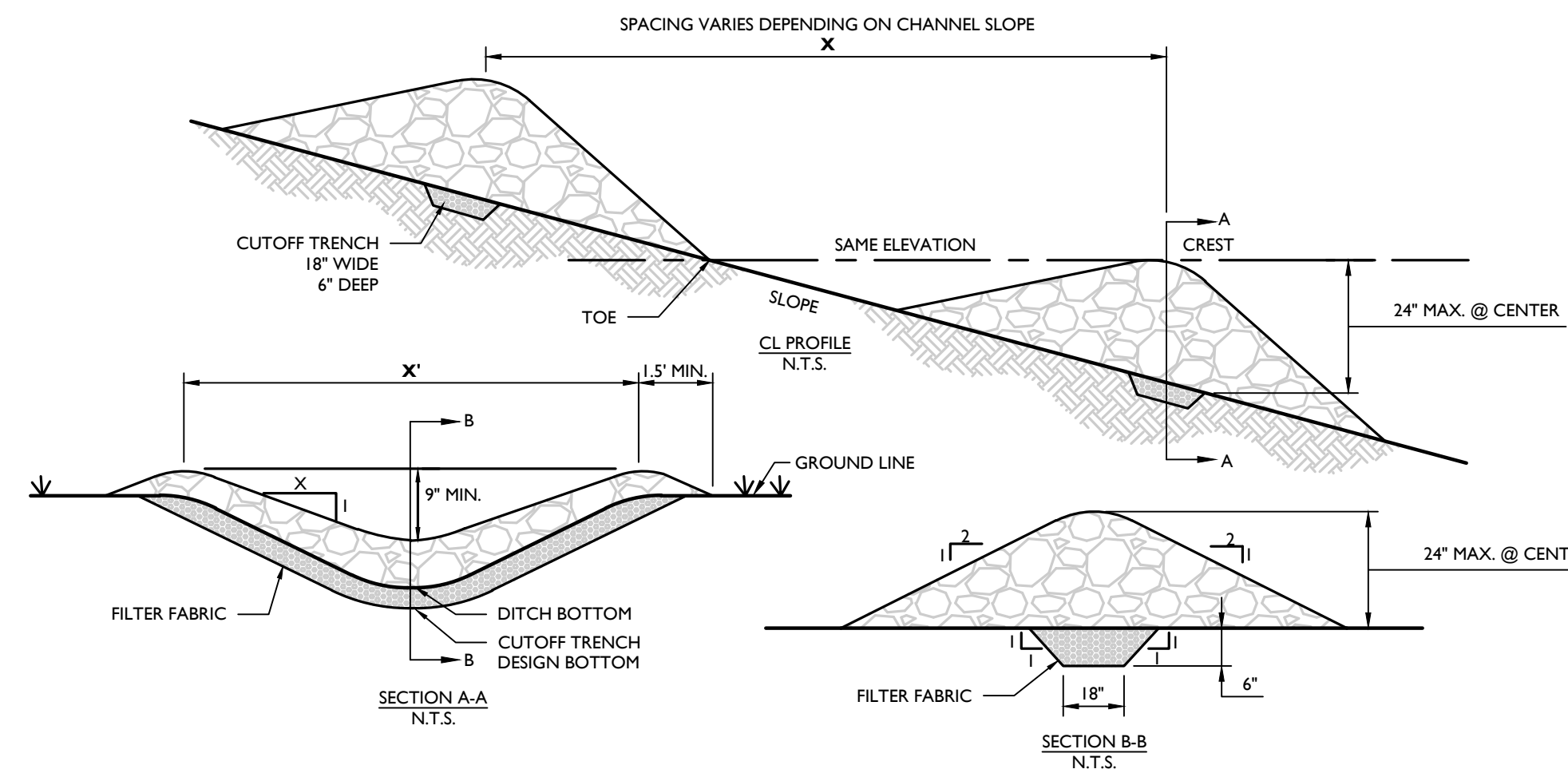


NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPS), INCLUDING ANY NECESSARY APPLICATION OF LIQUID FERTILIZER AND SEED.
 - * WHEN USING MATTING WITH SEED, DO NOT SEED THE AREA. FOLLOW MANUFACTURER'S RECOMMENDATIONS.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPS IN A 6" DEEP x 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECPS EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPS WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECPS BACK OVER SEED AND COMPACTED SOIL. SECURE RECPS OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECPS.
3. ROLL THE RECPS (A), DOWN OR (B), HORIZONTALLY STEP BY STEP ACROSS THE SLOPE TAMPERING IT DOWN ALONG THE WAY. RECPS SHALL UNROLL WITH APPROPRIATE SIDE TIGHTLY AGAINST THE SOIL SURFACE. RECPS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLES PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECPS MUST BE STAKED WITH APPROXIMATELY 2" TO 5" OVERLAP DEPENDING ON RECPS TYPE.
5. CONSECUTIVE RECPS SPACED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECPS WIDTH.
 - * IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECPS.

EROSION MATTING (CURLEX ENFORCER 1) DETAIL

NOT TO SCALE MCNY-SOIL-EROS-2200 07/01/19

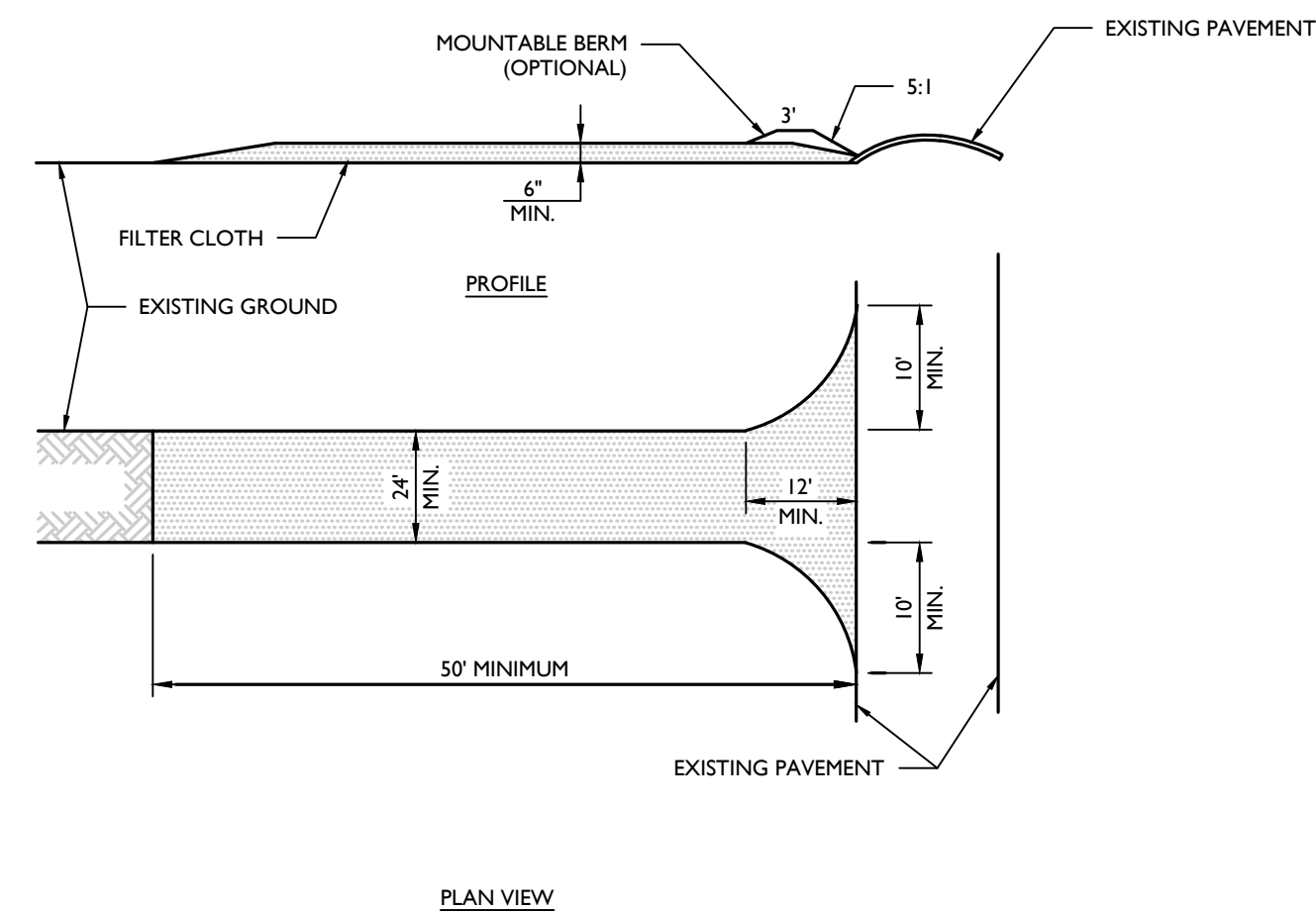


CONSTRUCTION SPECIFICATIONS:

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN ON THE PLAN.
 2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
 3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
- MAXIMUM DRAINAGE AREA: 2 ACRES

STONE CHECK DAM DETAIL

NOT TO SCALE MCNY-SOIL-EROS-2301 07/01/19

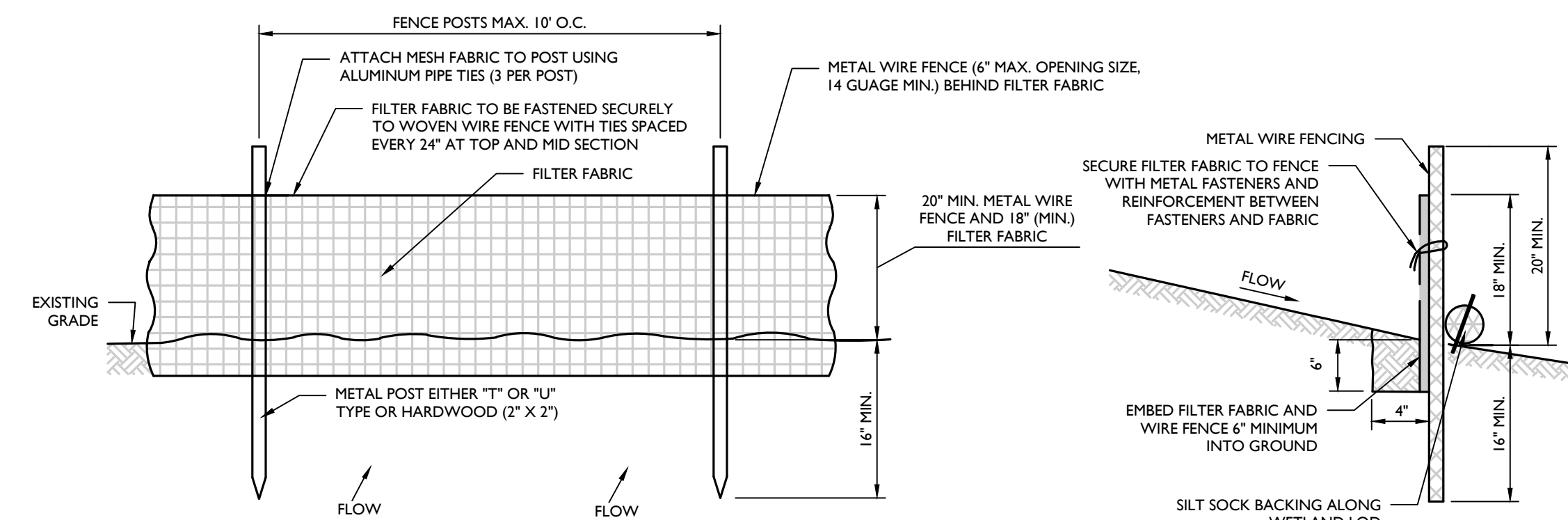


NOTES:

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. LENGTH: NOT LESS THAN 50 FEET. THICKNESS: NOT LESS THAN (6) INCHES.
2. WIDTH - 24"
3. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
4. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTING BERM WITH 5:1 SLOPES WILL BE PERMITTED.
5. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
6. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE MCNY-SOIL-EROS-1000 07/01/19

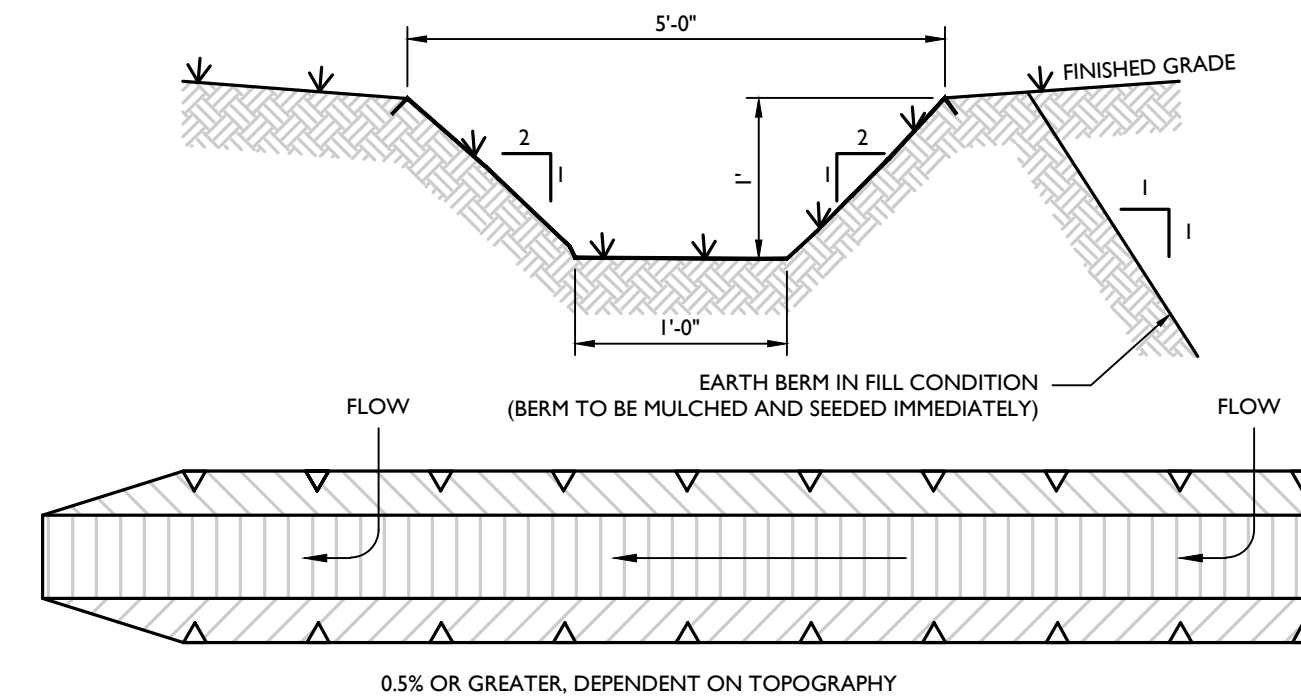


NOTES:

1. GEOTEXTILE TO BE FASTENED SECURELY TO FENCE POST BY USING WIRE TIES OR HOOP RINGS. USE 3 FASTENERS PER POST.
2. SPlicing OF INDIVIDUAL ROLLS SHALL NOT OCCUR AT LOW POINTS.
3. ALL SILT FENCE TO BE INSPECTED AND REMEDIAL MAINTENANCE PERFORMED BY THE CONTRACTOR AS REQUIRED. MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
4. WHEN TWO SECTIONS OF FILTER FABRIC ARE JOINED, THEY SHALL BE OVER-WRAPPED BY SIX INCHES AND FOLDED.
5. FILTER FABRIC TO BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
6. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
7. IF SPACE PERMITTED, LOCATE SILT FENCE 10' AWAY FROM TOE OF SLOPE IF THE SLOPE IS STEEPER THAN 1:1.

REINFORCED SILT FENCE (WITH WIRE FENCE) DETAIL

NOT TO SCALE MCNY-SOIL-EROS-1101 07/01/19



TO BE INSTALLED ABOVE DISTURBED AREAS, TO DIVERT RUNOFF OFF-SITE WITHOUT INCREASING EROSION; INTERMITTENTLY ACROSS DISTURBED AREAS TO SHORTEN OVERLAND FLOW DISTANCES BELOW DISTURBED AREAS, TO DIVERT SEDIMENT-LADEN WATER TO A SEDIMENT TRAPPING DEVICE, AND TO SAFELY TRANSPORT RUNOFF ALONG ROADWAYS.

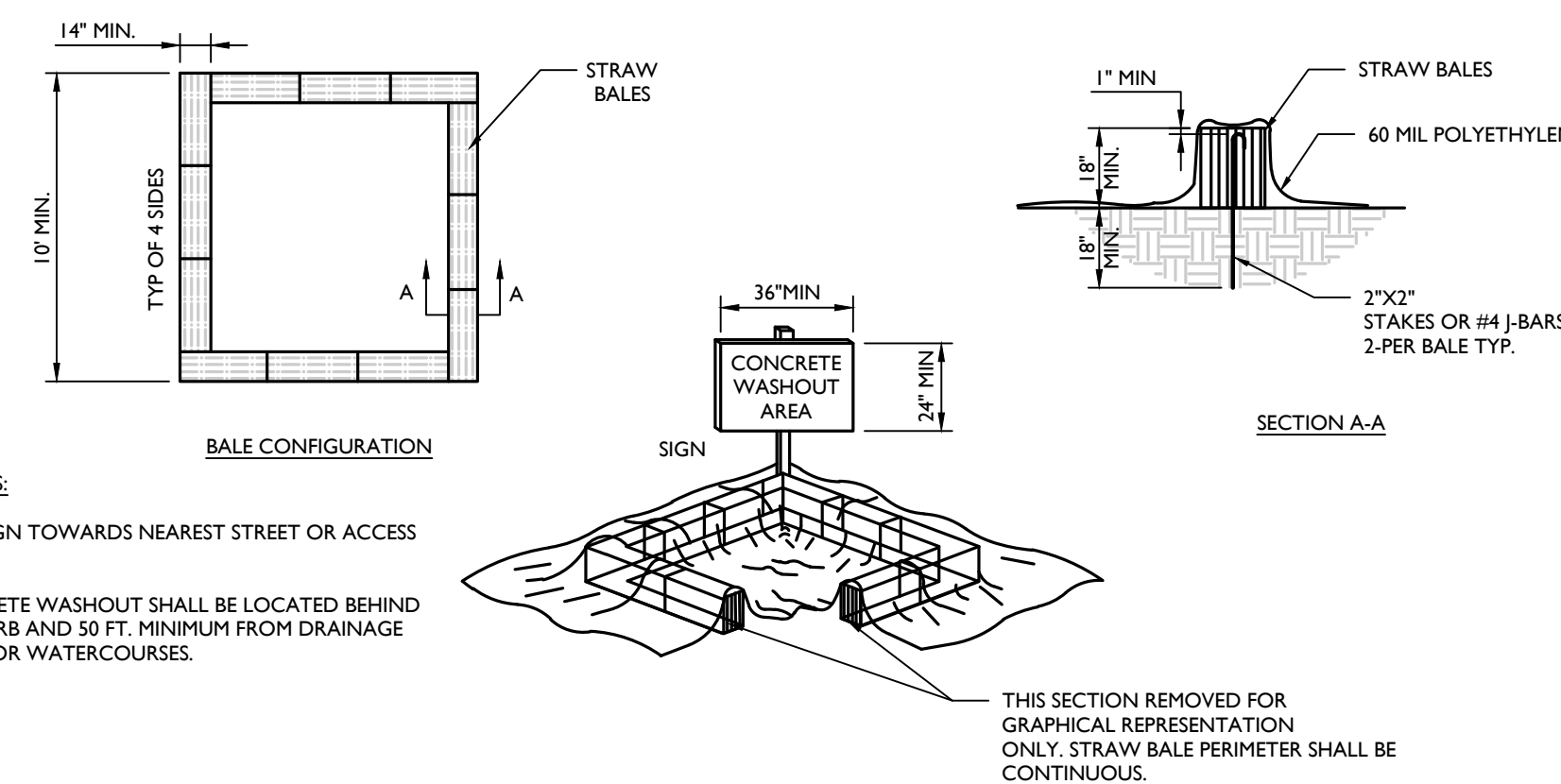
* WHERE SWALE TRAVERSES CONSTRUCTION VEHICLE PATH, DEPTH TO BE 6". SEE PLAN FOR LOCATION

INSTALLATION NOTES:

1. ALL SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. INSPECTION AND MAINTENANCE MUST BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
9. STABILIZATION SHALL BE SEED AND STRAW MULCH.

TEMPORARY SWALE & EARTH BERM DETAIL

NOT TO SCALE MCNY-SOIL-EROS-2302 07/01/19



DETAIL NOTES:

1. FACE SIGN TOWARDS NEAREST STREET OR ACCESS POINT.
 2. CONCRETE WASHOUT SHALL BE LOCATED BEHIND THE CURB AND 50 FT. MINIMUM FROM DRAINAGE INLETS OR WATERCOURSES.
- NOTES:**
1. CONCRETE WASHOUTS ARE REQUIRED ON ALL CONSTRUCTION SITES INVOLVING CONCRETE AND STUCCO USE.
 2. THE CONTRACTOR SHALL REQUIRE ALL CONCRETE DRIVERS TO UTILIZE THE CONCRETE WASHOUTS ON SITE.
 3. WASHOUT FACILITIES SHALL BE LOCATED AT LEAST 50 FEET AWAY FROM STORM SEWER DRAIN INLETS, GUTTERS, OPEN DITCHES, AND WATER COURSES.
 4. APPROPRIATE STONE SHOULD COVER PATHS TO CONCRETE WASHOUT.
 5. THE NUMBER OF CONCRETE WASHOUTS DEPENDS ON THE EXPECTED DEMAND FOR STORAGE CAPACITY. LARGE SITES WITH EXTENSIVE CONCRETE WORK SHALL BE PLACED AT MULTIPLE LOCATIONS FOR USE BY CONCRETE TRUCK DRIVERS.
 6. CONCRETE WASHOUT AREAS SHALL BE IDENTIFIED BY POSTING SIGNS ON SITE.
 7. CONCRETE WASHOUTS ARE TO BE INSPECTED DAILY BY THE CONTRACTOR FOR LEAKS OR TEARS IN PLASTIC LINER.
 8. REMOVE AND DISPOSE OF ALL MATERIAL WHEN THE WASHOUT HAS BEEN FILLED TO 75% CAPACITY.
 9. PRIOR TO ANY RAINFALL, ALL CONCRETE WASHOUTS ARE TO BE CLEANED OUT OR COVERED.
 10. ONCE THE MATERIAL HAS BEEN CLEANED OUT OF THE CONCRETE WASHOUT FACILITY, THE FACILITY MUST BE INSPECTED FOR REPAIR, RECONSTRUCTION OR REPLACEMENT.
 11. PREFABRICATED OR ON SITE FABRICATED CONCRETE WASHOUTS MAY BE USED.
 12. OPTIONS FOR ON SITE CONCRETE WASHOUTS:
 - A. DIG A PIT AND LINE WITH 10 MIL PLASTIC SHEETING.
 - B. CREATE AN ABOVE-GROUND STRUCTURE FROM STRAW BALES OR SANDBAGS WITH 10 MIL PLASTIC LINING.

CONCRETE WASHOUT DETAIL

NOT TO SCALE MCNY-SOIL-EROS-1700 07/01/19

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REV	DATE	DRAWN BY	DESCRIPTION
1	02/04/22	CDR	REVISED WETLAND IMPACT REDUCTION & DETAILS FOR GIBS SUBMISSION.

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF ARTICLE 145, SECTION 7309, SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

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

PRELIMINARY SITE PLANS

FOR
DEWPOINT NORTH LLC

SECTION 4,
BLOCK 1
LOT 50.2

TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

Colliers NEWBURGH
555 Hudson Valley Avenue
Suite 101
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COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING
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SCALE: AS SHOWN DATE: 01/10/2022 DRAWN BY: MAS CHECKED BY: CDR
PROJECT NUMBER: 20005912A DRAWING NAME: C-SESC-NRTH

SHEET TITLE: SOIL EROSION & SEDIMENT CONTROL DETAILS

SHEET NUMBER: 07 of 16

TOWN OF WAWAYANDA
PLANNING BOARD

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

SITE PLANTING SCHEDULE

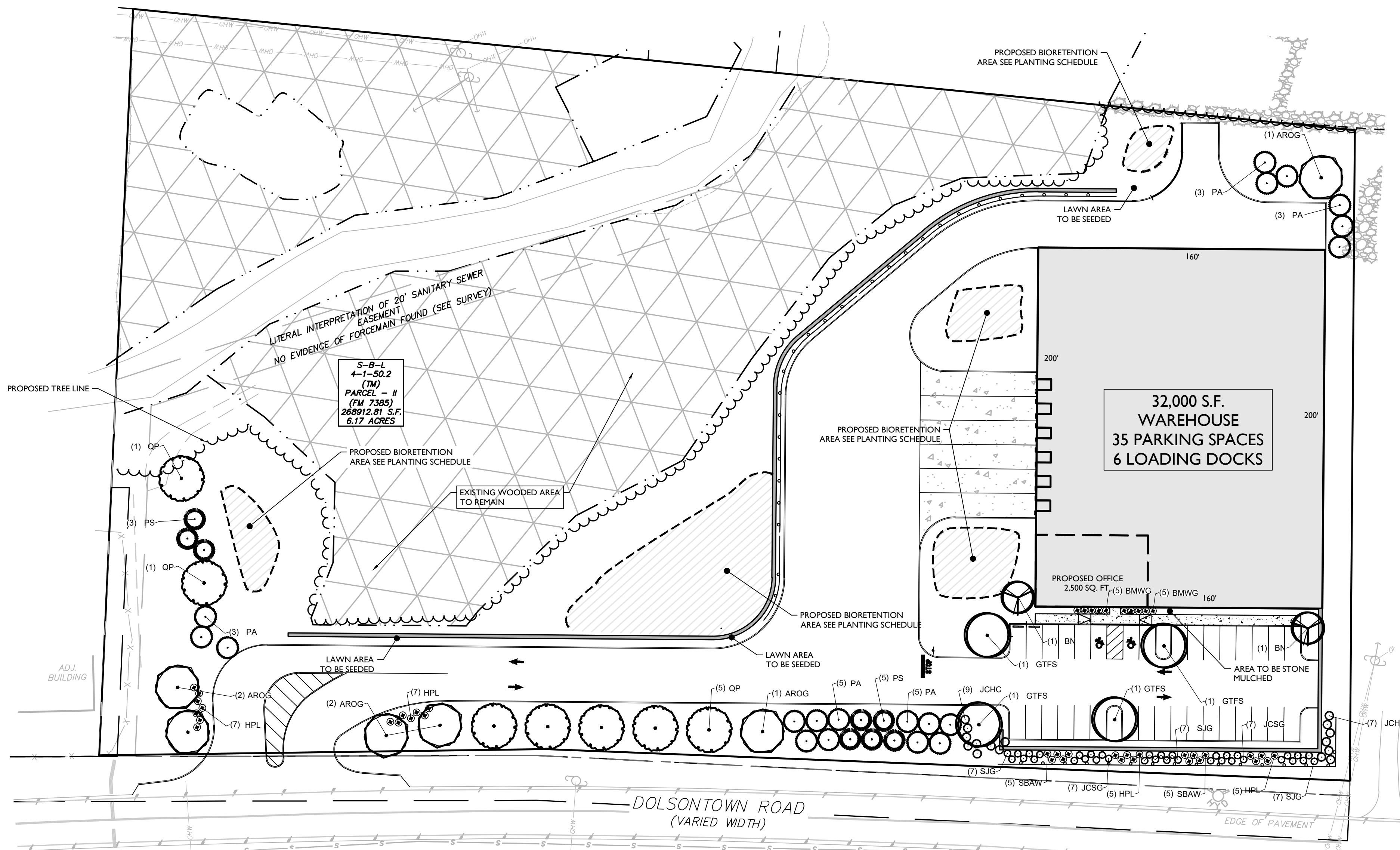
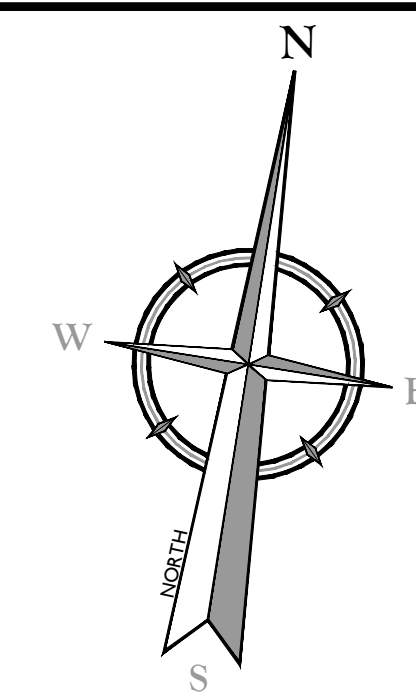
DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	HEIGHT	REMARKS
AROG	6	Acer rubrum 'October Glory'	October Glory Red Maple	B & B	2 1/2-3"		STRAIGHT LEADER/SYM. BRANCHING
GTFS	4	Gleditsia triacanthos 'Skyline'	Skyline Honey Locust	B & B	2 1/2-3"		STRAIGHT LEADER/SYM. BRANCHING
QP	7	Quercus Palustris	Pin Oak	B & B	2 - 2 1/2" Cal.		STRAIGHT LEADER/SYM. BRANCHING
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	HEIGHT	REMARKS
PA	10	Picea abies	Norway Spruce	B & B	6-8' Ht.		DENSE / TYP. SPECIES HABIT
PS	8	Pinus strobus	White Pine	B & B	6-8' Ht.		DENSE / TYP. SPECIES HABIT
ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	HEIGHT	REMARKS
BN	2	Betula nigra	River Birch	B & B	6 - 7'		MULTISTEM / TYP. SPECIES HABIT
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	HEIGHT	REMARKS
BMWG	10	Buxus microphylla Japonica 'Winter Gem'	Winter Gem Japanese Boxwood	CONT	24"-30"		TYPICAL SPECIES HABIT / O.C. SPACING 4'
HPL	24	Hydrangea paniculata 'Limelight'	Limelight Panicle Hydrangea	5 gal		24"-30"	TYPICAL SPECIES HABIT / O.C. SPACING 4.5'
JCHC	16	Juniperus chinensis 'Hetzi Columnaris'	Hetzi Column Juniper	5 gal		6'-7'	TYPICAL SPECIES HABIT / O.C. SPACING 5'
JCSG	14	Juniperus chinensis 'Sea Green'	Sea Green Juniper	5 gal		24"-30"	TYPICAL SPECIES HABIT / O.C. SPACING 4'
SJG	21	Spiraea japonica 'Goldmound'	Goldmound Japanese Spiraea	5 gal		18"-24"	TYPICAL SPECIES HABIT / O.C. SPACING 4'
SBAW	10	Spiraea x bumalda 'Anthony Waterer'	Anthony Waterer Bumald Spiraea	5 gal		18"-24"	TYPICAL SPECIES HABIT / O.C. SPACING 4'

PLANT DETAIL NOTES:

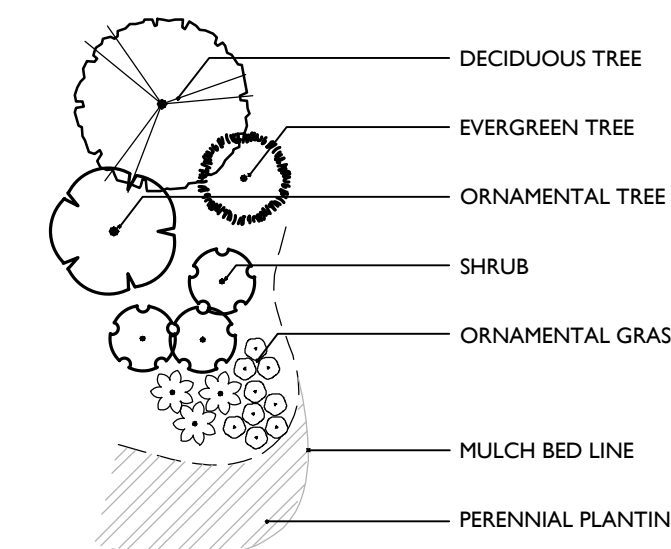
- NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT. MULCH SHALL NOT TOUCH THE TREE TRUNK.
- PLANTING DEPTH SHALL BE THE SAME OR HIGHER AS GROWN IN NURSERY.
- WIRE BASKETS AND NON-JUTE BURLAP MUST BE ENTIRELY REMOVED FROM THE ROOT BALL. JUTE BURLAP MUST BE REMOVED FROM THE TOP 1/3 OF THE ROOT BALL.
- DEPTH OF PLANT PIT SHALL BE INCREASED BY 12" WHEREVER POOR SOIL CONDITIONS OCCUR, WITH THE ADDITION OF LOOSE AGGREGATE.
- CONTRACTOR SHALL PARTIALLY FILL WITH WATER A REPRESENTATIVE NUMBER OF PITS IN EACH AREA OF THE PROJECT PRIOR TO PLANTING TO DETERMINE IF THERE IS ADEQUATE PERCOLATION. IF PIT DOESN'T PERCOLATE, MEASURES MUST BE TAKEN TO ASSURE PROPER DRAINAGE BEFORE PLANTING.
- PLANTING MUST BE GUARANTEED FOR TWO FULL GROWING SEASONS FROM THE TIME OF FINAL ACCEPTANCE BY THE LANDSCAPE CONSULTANT. CONTRACTOR SHALL REMOVE ALL WRAPPING AT THE END OF GUARANTEE PERIOD OR SOONER PER PROJECT LANDSCAPE ARCHITECT.
- BACKFILL MIXTURE TO BE SPECIFIED BASED UPON SOIL TEST AND CULTURAL REQUIREMENTS OF PLANT.
- PRUNE DAMAGED AND CONFLICTING BRANCHES MAINTAINING NORMAL TREE SHAPE, NEVER CUT CENTRAL TRUNK OR LEADER.

GENERAL PLANTING NOTES:

- THIS PLAN SHALL BE USED FOR LANDSCAPE PLANTING PURPOSES ONLY. EXAMINE ALL ENGINEERING DRAWINGS AND FIELD CONDITIONS FOR SPECIFIC LOCATIONS OF UTILITIES AND STRUCTURES AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR LOCATION CONFLICTS PRIOR TO PLANTING INSTALLATION.
- THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND VERIFY LOCATION OF ALL UTILITIES ON SITE PRIOR TO CONSTRUCTION.
- 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 OR THE PLANT MATERIAL WILL BE UNACCEPTABLE. ALL PLANT MATERIAL SHALL BE TRUE TO SPECIES, VARIETY, SIZE AND BE CERTIFIED DISEASE AND INSECT FREE. THE OWNER AND/OR THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO APPROVE ALL PLANT MATERIAL ON SITE PRIOR TO INSTALLATION.
- NO PLANT SUBSTITUTIONS SHALL BE PERMITTED WITH REGARD TO SIZE, SPECIES, OR VARIETY WITHOUT WRITTEN PERMISSION OF THE LANDSCAPE CONSULTANT. WRITTEN PROOF OF PLANT MATERIAL UNAVAILABILITY MUST BE DOCUMENTED.
- THE LOCATION OF ALL PLANT MATERIAL INDICATED ON THE LANDSCAPE PLANS ARE APPROXIMATE. THE FINAL LOCATION OF ALL PLANT MATERIAL AND PLANTING BED LINES SHALL BE DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT.
- ALL STREET TREES AND SHADE TREES PLANTED NEAR PEDESTRIAN OR VEHICULAR ACCESS SHOULD NOT BE BRANCHED LOWER THAN 7'-0" ABOVE GRADE. ALL PLANT MATERIAL LOCATED WITHIN SIGHT TRIANGLE EASEMENTS SHALL NOT EXCEED A MATURE HEIGHT OF 30' ABOVE THE ELEVATION OF THE ADJACENT CURB. ALL STREET TREES PLANTED IN SIGHT TRIANGLE EASEMENTS SHALL BE PRUNED TO NOT HAVE BRANCHES BELOW 10'-0".
- THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE SHOULD ANY PLANT QUANTITY DISCREPANCIES OCCUR.
- ALL PLANT MATERIAL SHALL BE PROPERLY INSTALLED IN CONFORMANCE WITH THE TYPICAL PLANTING DETAILS. INSTALL ALL PLANT MATERIAL ON UNDISTURBED GRADE. CUT AND REMOVE JUTE BURLAP FROM TOP ONE-THIRD OF THE ROOT BALL. WIRE BASKETS AND NON-JUTE BURLAP SHALL BE COMPLETELY REMOVED PRIOR TO BACKFILLING THE PLANT PIT.
- BRANCHES OF DECIDUOUS TREES SHALL BE PRUNED BACK BY NO MORE THAN ONE QUARTER (1/4) TO BALANCE THE TOP GROWTH WITH ROOTS AND TO PRESERVE THEIR CHARACTER AND SHAPE. THE CENTRAL LEADER OF TREE SHALL NOT BE PRUNED.
- PROVIDE PLANTING PITS AS INDICATED ON PLANTING DETAILS. BACKFILL PLANTING PITS WITH ONE PART EACH OF TOPSOIL, PEAT MOSS AND PARENT MATERIAL. IF WET SOIL CONDITIONS EXIST THEN PLANTING PITS SHALL BE EXCAVATED AN ADDITIONAL 12" AND FILLED WITH CRUSHED STONE OR UNTIL FREE DRAINING.
- ALL PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT BORE TO EXISTING GRADE AT NURSERY.
- OPTIMUM PLANTING TIME:
DECIDUOUS - APRIL 1 TO JUNE 1 & OCTOBER 15 TO NOVEMBER 30.
CONIFEROUS - APRIL 1 TO JUNE 1 & SEPTEMBER 1 TO NOVEMBER 1.
- PLANTING OUTSIDE OF THE OPTIMUM DATES SHALL NOT BE CONDUCTED WITHOUT PRIOR APPROVAL FROM THE LANDSCAPE CONSULTANT.
- NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED AT THE TIME OF INSTALLATION. REGULAR WATERING SHALL BE PROVIDED TO ENSURE THE ESTABLISHMENT, GROWTH AND SURVIVAL OF ALL PLANTS. WATERING AMOUNTS SHOULD BE ADJUSTED AS RAIN EVENTS OCCUR. WATERING AFTER THE INITIAL 4 WEEKS SHALL BE ADJUSTED BASED ON SEASONAL CONDITIONS. WATERING SHALL NOT TAKE PLACE DURING THE HOTTEST POINT OF THE DAY.
- ALL PLANT MATERIAL SHALL BE GUARANTEED FOR TWO YEARS AFTER THE DATE OF FINAL ACCEPTANCE. ANY PLANT MATERIAL THAT DIES WITHIN THAT TIME PERIOD SHALL BE REMOVED, INCLUDING THE STUMP, AND REPLACED BY A TREE OF SIMILAR SIZE AND SPECIES AT NO EXPENSE TO THE OWNER.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM 4" LAYER OF TOPSOIL IN ALL LAWN AREAS AND A MINIMUM OF 12" OF TOPSOIL IN ALL PLANTING AREAS. A FULL SOIL ANALYSIS SHALL BE CONDUCTED AFTER CONSTRUCTION AND PRIOR TO PLANTING TO DETERMINE THE EXTENT OF SOIL AMENDMENT REQUIRED. SOIL PH SHOULD BE 5.5-6.5.
- ALL DISTURBED LAWN AREAS SHALL BE STABILIZED WITH SEED AS INDICATED ON THE LANDSCAPE PLANS. TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH THE GENERAL SEEDING NOTES ON THIS SHEET. ALL DISTURBED LAWN AREAS SHALL BE TOPSOILED, LIMED, FERTILIZED AND FINE GRADED PRIOR TO LAWN INSTALLATION.
- ALL PLANTING BEDS SHALL RECEIVE 3" OF SHREDDED HARDWOOD BARK MULCH.
- ALL SHRUB MASSES SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS.
- ALL PLANTING DEBRIS (WIRE, TWINE, RUBBER HOSE, BACKFILL ETC.) SHALL BE REMOVED FROM THE SITE AFTER PLANTING IS COMPLETE. PROPERTY IS TO BE LEFT IN A NEAT ORDERLY CONDITION IN ACCORDANCE WITH ACCEPTED PLANTING PRACTICES.

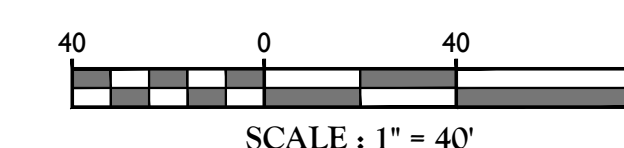


LANDSCAPE LEGEND



TYPICAL BIORETENTION AREA PLANT SCHEDULE

TREES	COMMON NAME	CONT	SIZE	HEIGHT	REMARKS
Betula nigra	River Birch	CONT		6' - 8'	MULTISTEM / TYP. SPECIES HABIT
SHRUBS	COMMON NAME	CONT	SIZE	HEIGHT	REMARKS
Aronia Arbutifolia	Red Chokeberry	CONT		24"-30"	TYPICAL SPECIES HABIT
Clethra Alnifolia	'Hummingbird'	CONT		18"-24"	TYPICAL SPECIES HABIT
Ilex Glabra	Inkberry	CONT		18"-24"	TYPICAL SPECIES HABIT
Sambucus Canadensis	Elderberry	CONT		18"-24"	TYPICAL SPECIES HABIT
Viburnum Dentatum	Arrowwood Viburnum	CONT		18"-24"	TYPICAL SPECIES HABIT
PERENNIALS	COMMON NAME	CONT	HEIGHT	REMARKS	
Aster Novae Angliae	New England Aster	1 Gal. CONT.		Clumps, 24" O.C.	
Deschampsia Cespitosa	Tufted Hair Grass	#SP4 CONT.		Clumps, 12" O.C.	
Echinacea Purpurea	Coneflower	1 Gal. CONT.		Clumps, 24" O.C.	
Juncus Effusus	Common Rush	#SP4 CONT.		Clumps, 12" O.C.	



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REV	DATE	DRAWN BY	DESCRIPTION
1	02/04/22	CDR	REVISED WETLAND IMPACT REDUCTION & DETAILS FOR GIBS SUBMISSION.

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Justin Eric Dates
NEW YORK REGISTERED LANDSCAPE ARCHITECT
LICENSE NUMBER: 001964-01
COLLIERS ENGINEERING & DESIGN CT, P.C.

PRELIMINARY SITE PLANS
FOR
DEWPOINT NORTH LLC
SECTION 4,
BLOCK 1
LOT 50.2
TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

Colliers
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555 Hudson Valley Avenue
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New Windsor, NY 12553
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COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING ENGINEERING & LAND SURVEYING

SCALE: AS SHOWN	DATE: 01/10/2022	DRAWN BY: SHB	CHECKED BY: JED
PROJECT NUMBER: 20005912A	DRAWING NAME: C-LAND-NRTH		

SHEET TITLE: **LANDSCAPE PLAN**
SHEET NUMBER: **08 of 16**

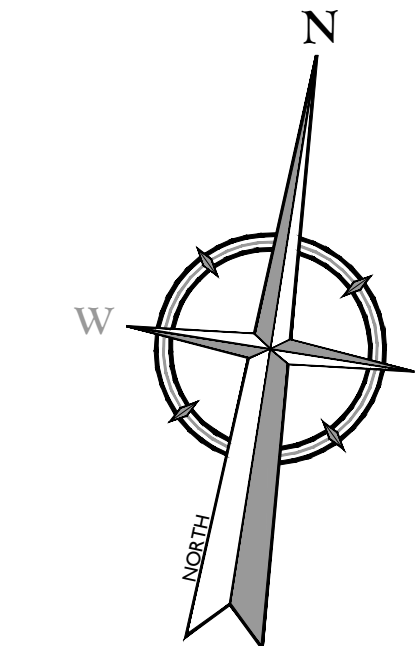
TOWN OF WAWAYANDA
PLANNING BOARD

LIGHTING NOTES:

1. THIS PLAN IS TO BE USED FOR LIGHTING PURPOSES ONLY.
2. POLES AND FIXTURES AS SUPPLIED BY:
POLES & WALL FIXTURES - HOLOPHANE
POLE FIXTURES - AMERICAN ELECTRIC LIGHTING
3. LAMPS ARE TO BE LEDs. 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 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 LAYOUT 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 COMPLIANT.

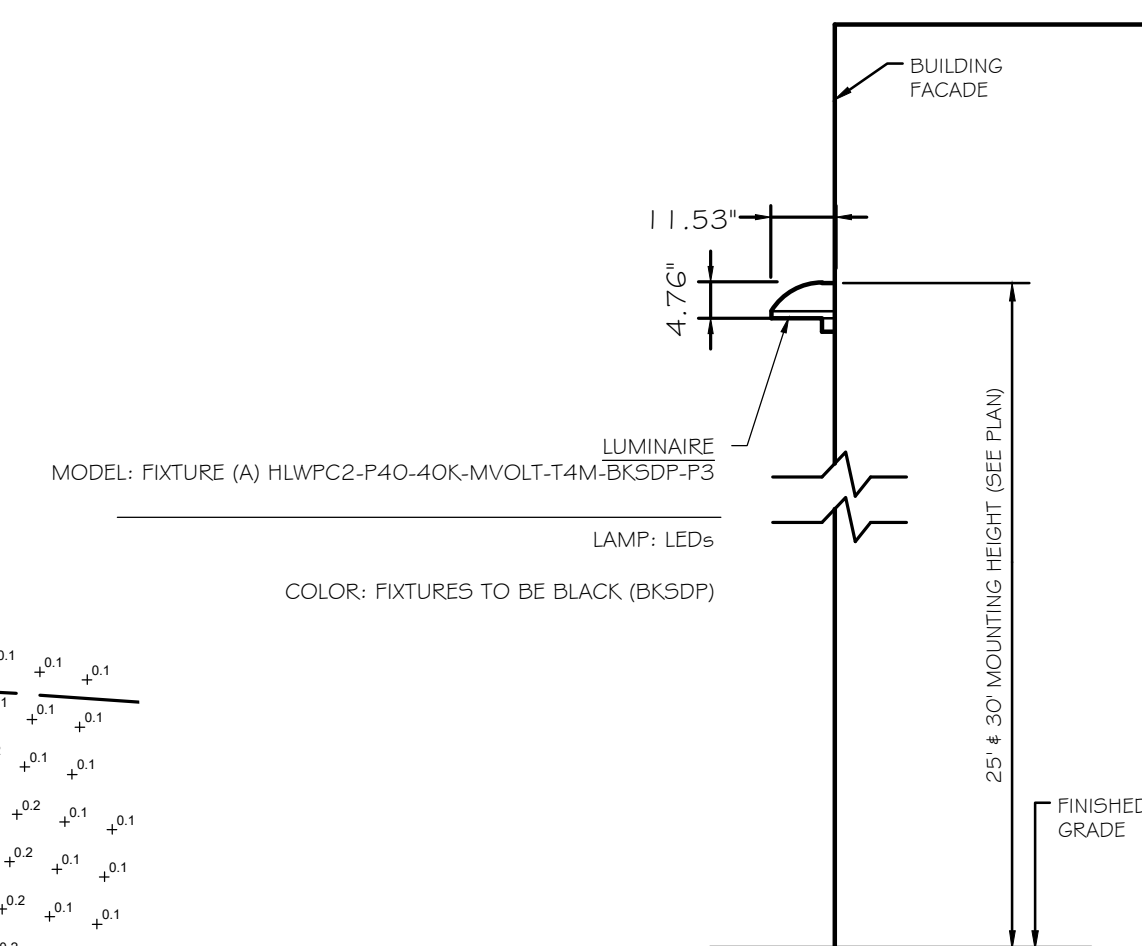
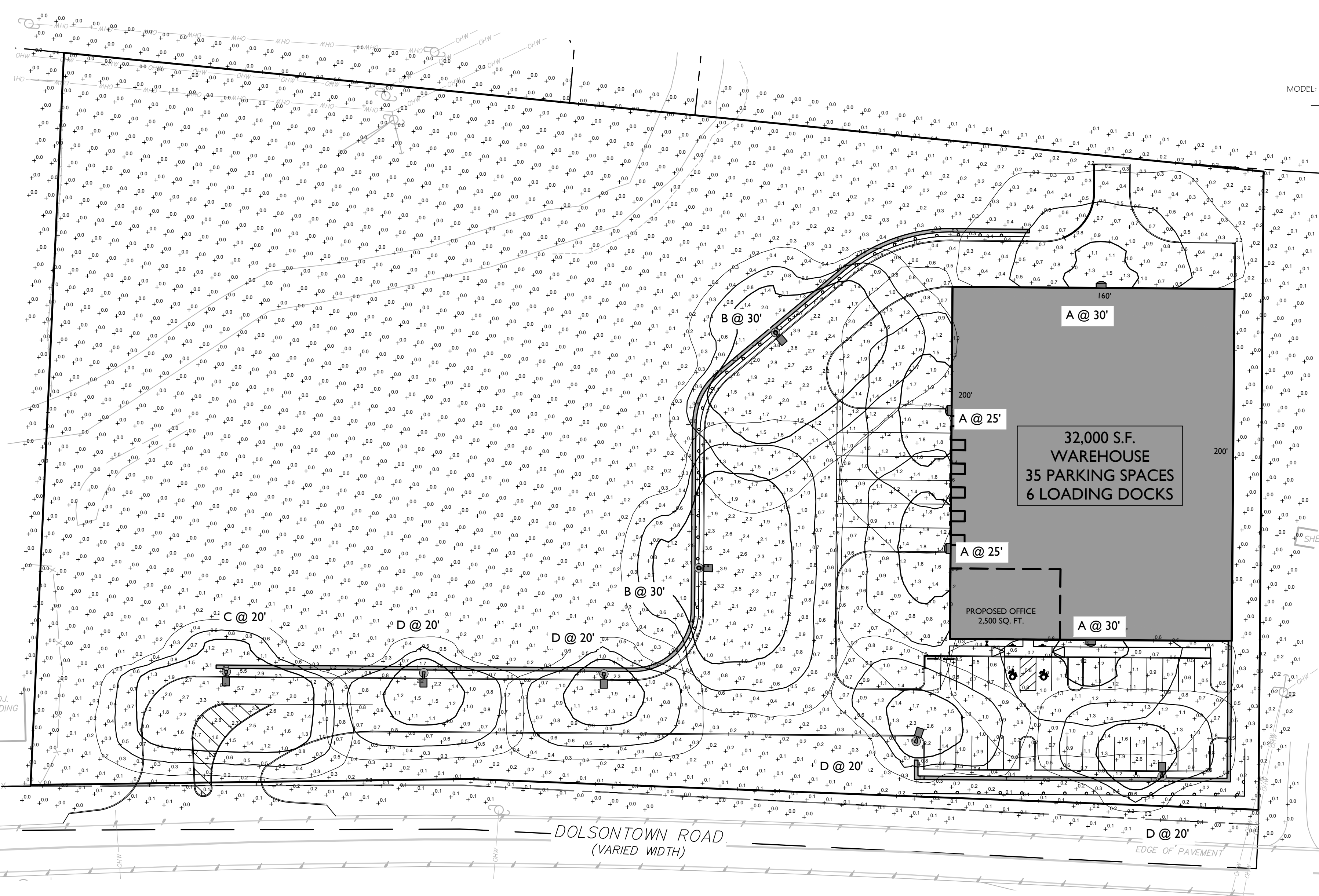
LUMINAIRE SCHEDULE							
KEY	QTY.	DESCRIPTION	ARRANGEMENT	MTG. HT.	LUMENS/LAMP	LLF	CATALOG #
A	4	HOLOPHANE WALL PACK FULL CUTOFF LED	SINGLE	25' & 30'	9,883	0.95	HLWPC2-P40-40K-MVOLT-T4M-BKSDP-P3
B	2	AMERICAN ELECTRIC LIGHTING ATB0 SERIES LED	SINGLE	30'	19,810	0.93	ATB0-P305-MVOLT-R4-4K-BK-UMS-XX
C	1	AMERICAN ELECTRIC LIGHTING ATB0 SERIES LED	SINGLE	20'	19,810	0.93	ATB0-P305-MVOLT-R4-4K-BK-HSS-UMS-XX
D	4	AMERICAN ELECTRIC LIGHTING ATB0 SERIES LED	SINGLE	20'	6,906	0.93	ATB0-P202-MVOLT-R4-4K-BK-HSS-UMS-XX

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



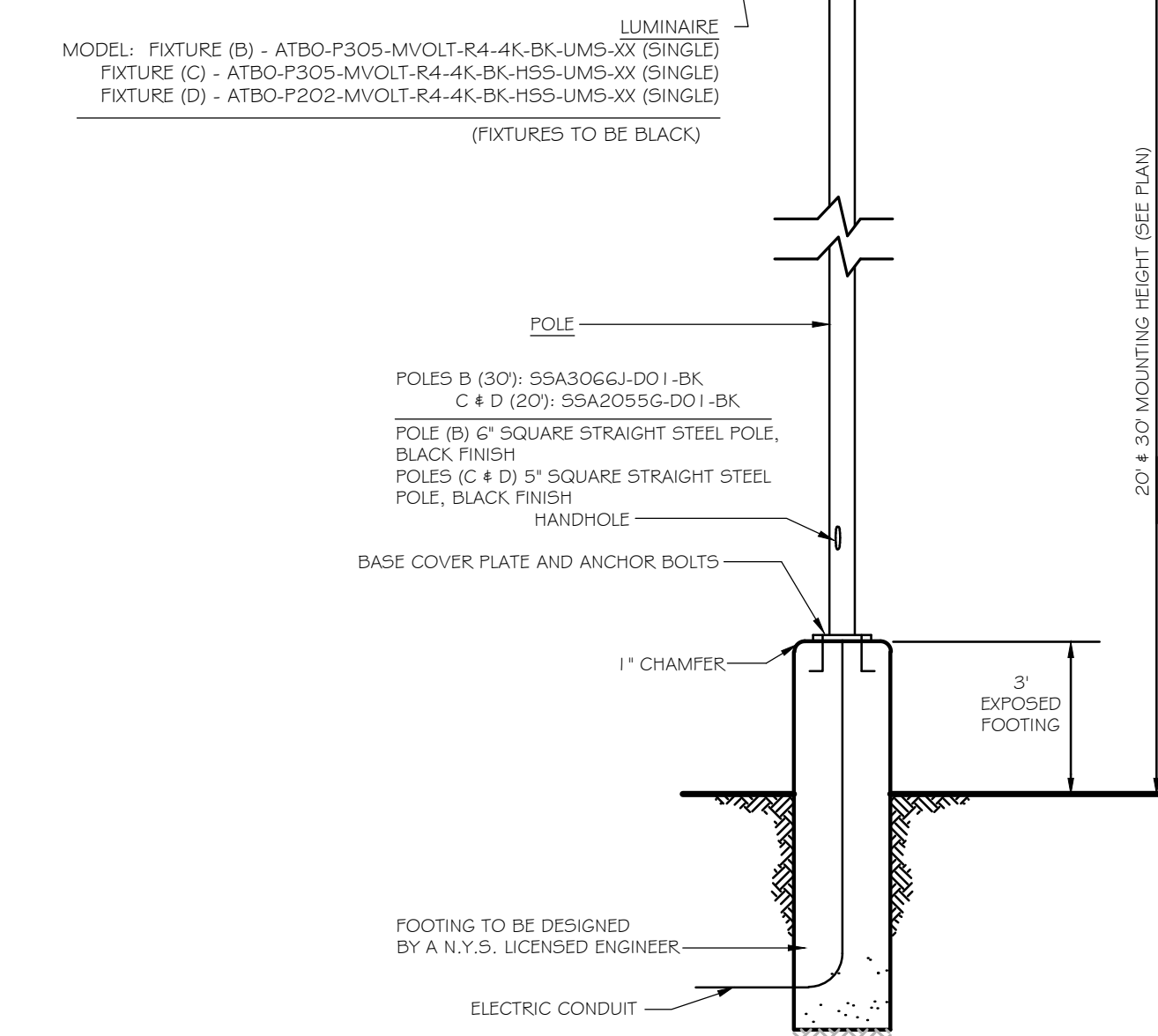
CALCULATION SUMMARY

DESCRIPTION	CALC. TYPE	UNITS	AVG.	MAX.	MIN.	AVG. / MIN.
PAVEMENT AREA SUMMARY	ILLUMINANCE	FC	1.2	6.8	0.2	6.0:1



WALL MOUNTED FIXTURE DETAIL

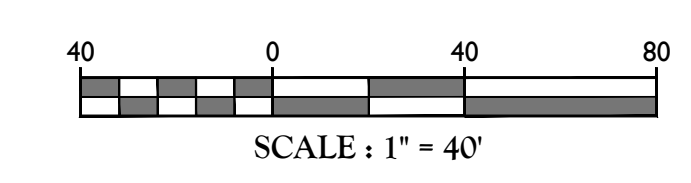
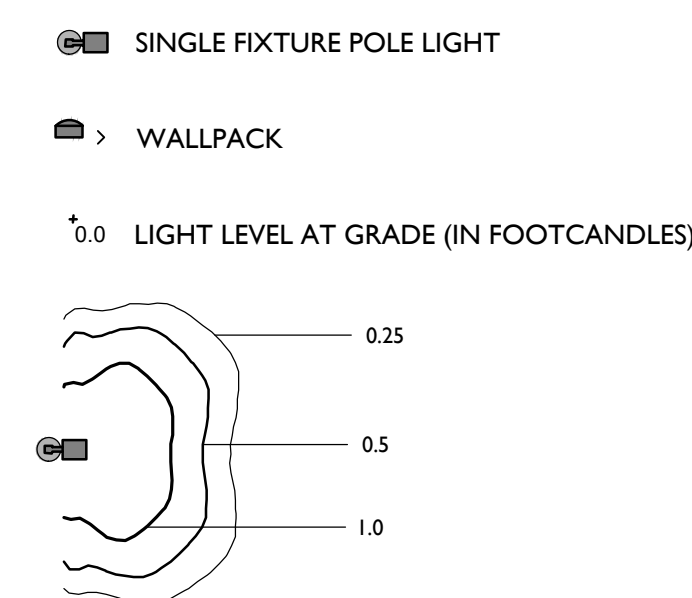
- NOTES:
1. LUMINAIRES TO BE MANUFACTURED BY HOLOPHANE LIGHTING OR APPROVED EQUAL.
 2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT.
 3. *VOLTAGE TO BE CONFIRMED BY ELECTRICIAN CONTRACTOR.



POLE MOUNTED FIXTURE DETAIL

- NOT TO SCALE
- NOTES:
1. LUMINAIRES TO BE MANUFACTURED BY AMERICAN ELECTRIC LIGHTING AND POLES BY HOLOPHANE (MANUFACTURER TO CONFIRM POLE SIZE) OR APPROVED EQUAL.
 2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT.
 3. FOOTING TO BE DESIGNED, SIGNED, AND SEALED BY A N.Y.S. LICENSED ENGINEER.
 4. *VOLTAGE TO BE CONFIRMED BY ELECTRICIAN CONTRACTOR.
 5. PROPOSED POLES HEIGHT TO BE MODIFIED IN FIELD TO MEET DESIGN.

LIGHTING LEGEND:



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REV	DATE	DESCRIPTION
1	02/04/22	CDR

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Justin Eric Dates
NEW YORK REGISTERED LANDSCAPE ARCHITECT
LICENSE NUMBER: 001964-01
COLLIERS ENGINEERING & DESIGN CT, P.C.

PRELIMINARY SITE PLANS

FOR
DEWPOINT NORTH LLC

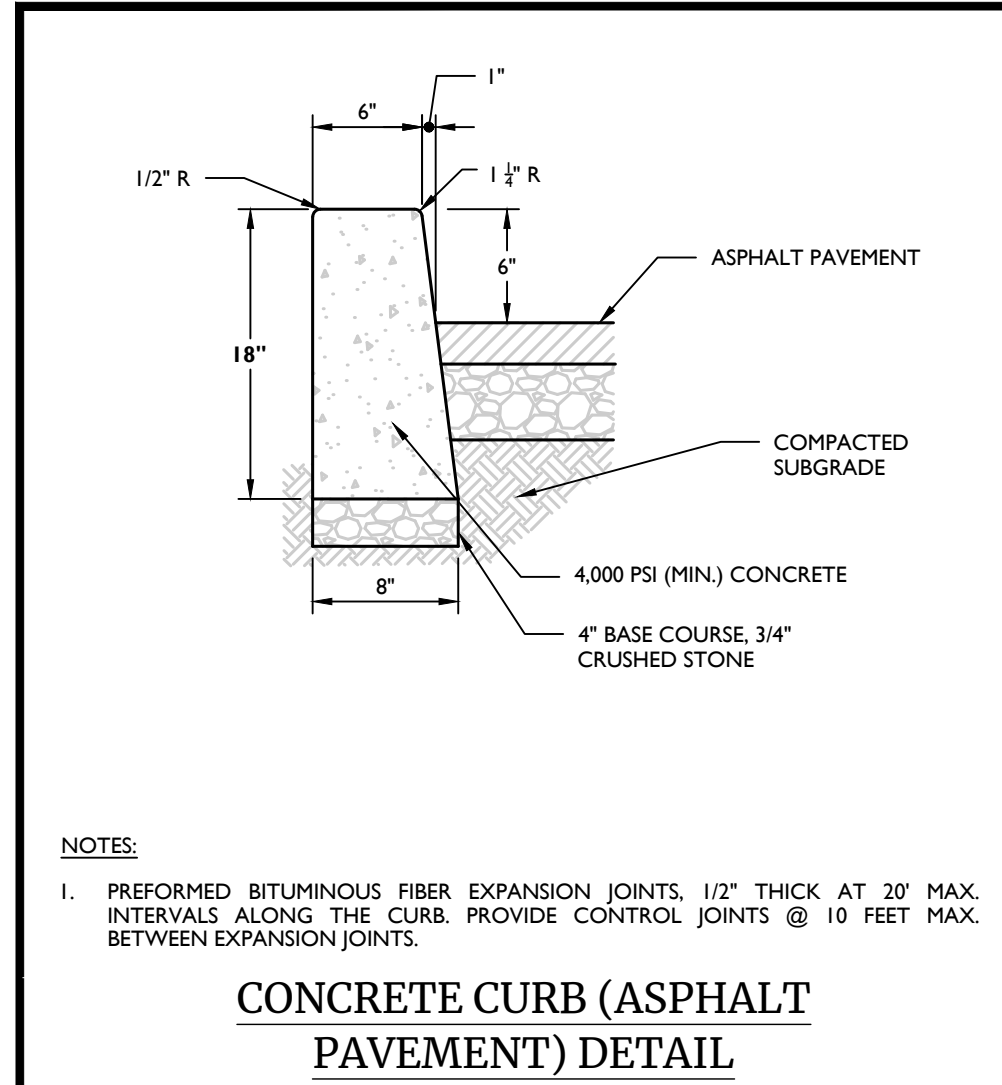
SECTION 4,
BLOCK 1
LOT 50.2

TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

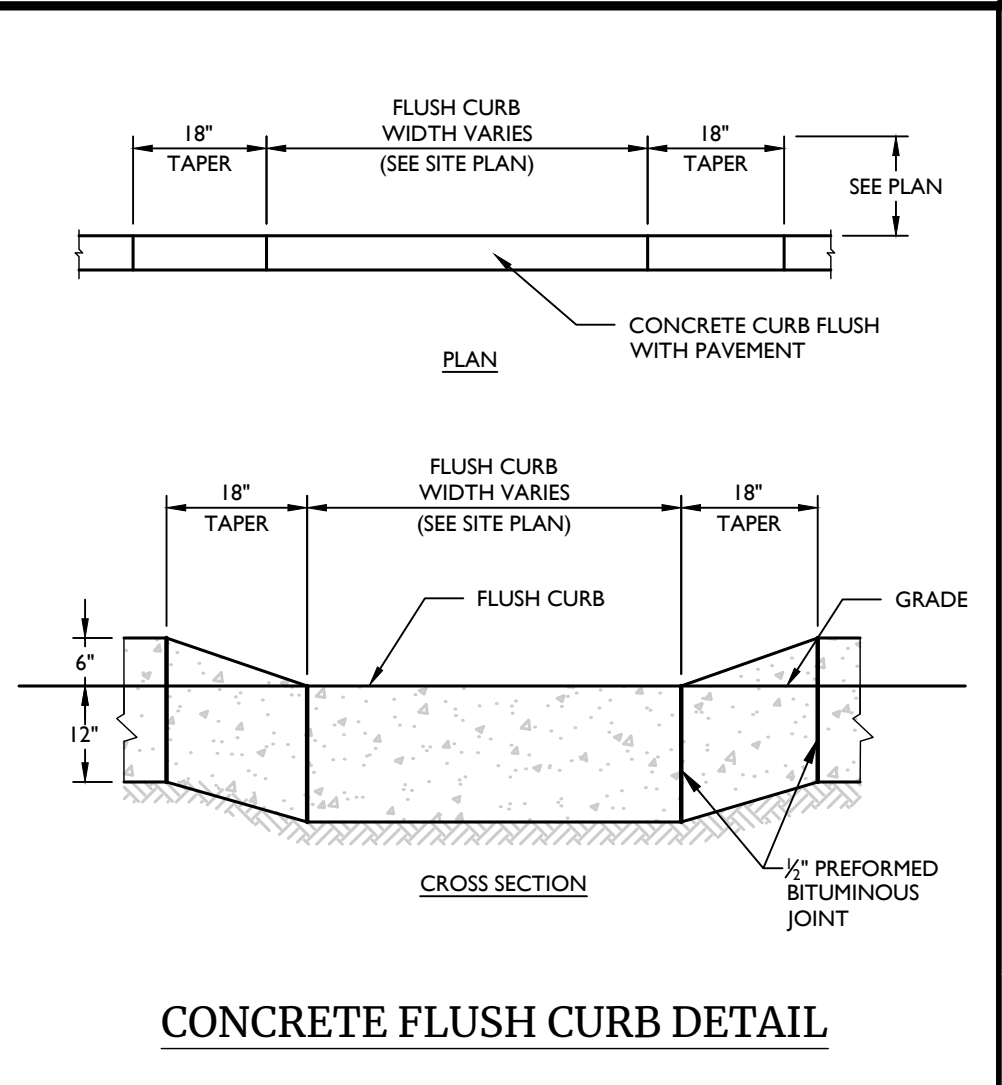
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SCALE: AS SHOWN DATE: 01/10/2022 DRAWN BY: SHB CHECKED BY: JED
PROJECT NUMBER: 20005912A DRAWING NAME: C-LIGHT-NRTH
SHEET TITLE: LIGHTING PLAN
SHEET NUMBER: 09 of 16

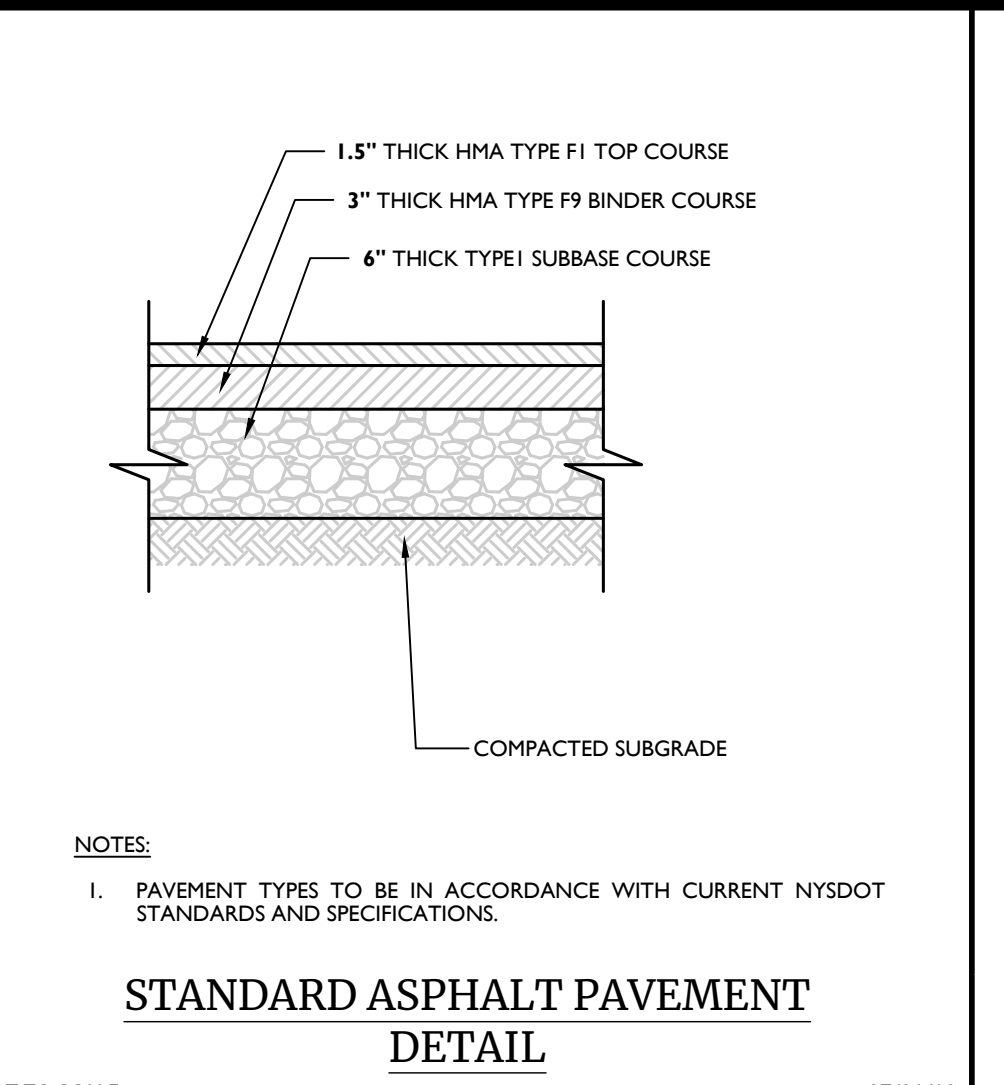
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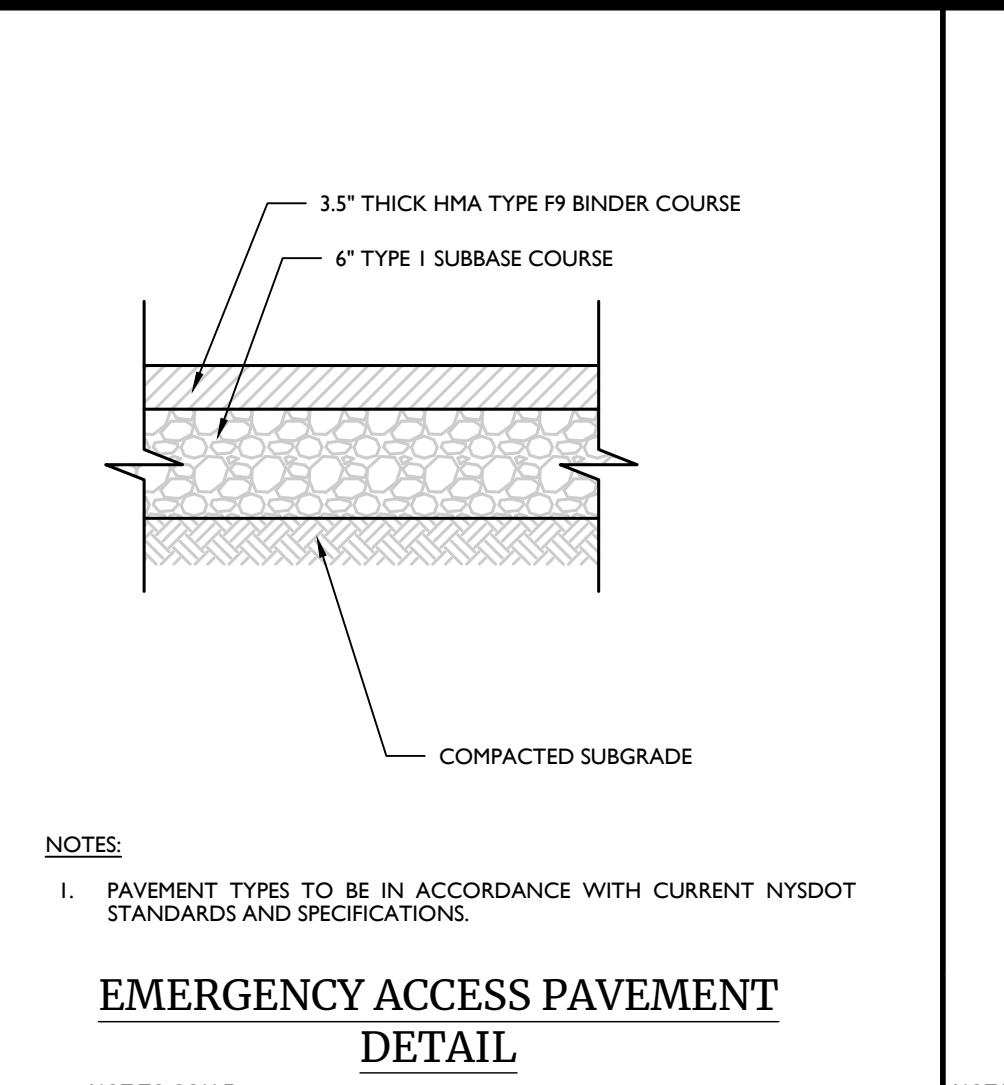
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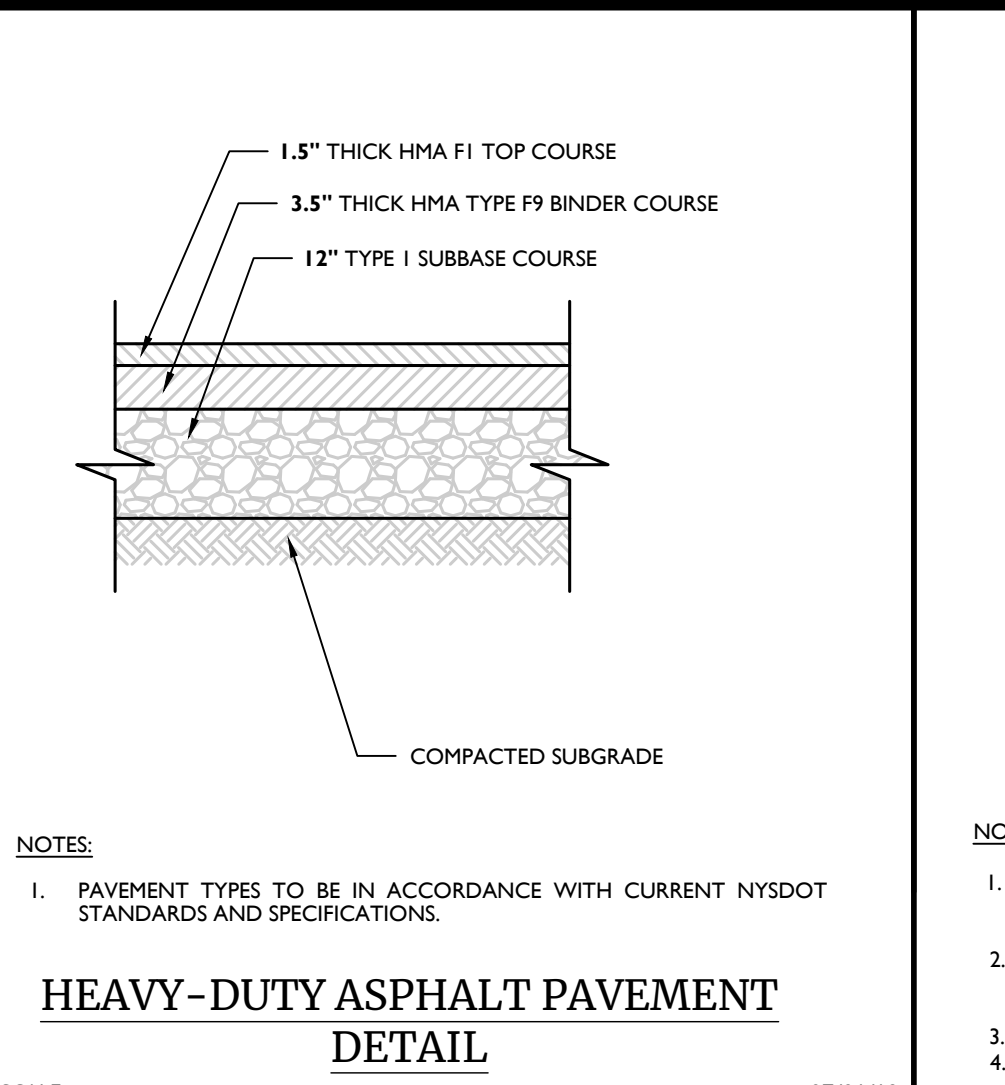
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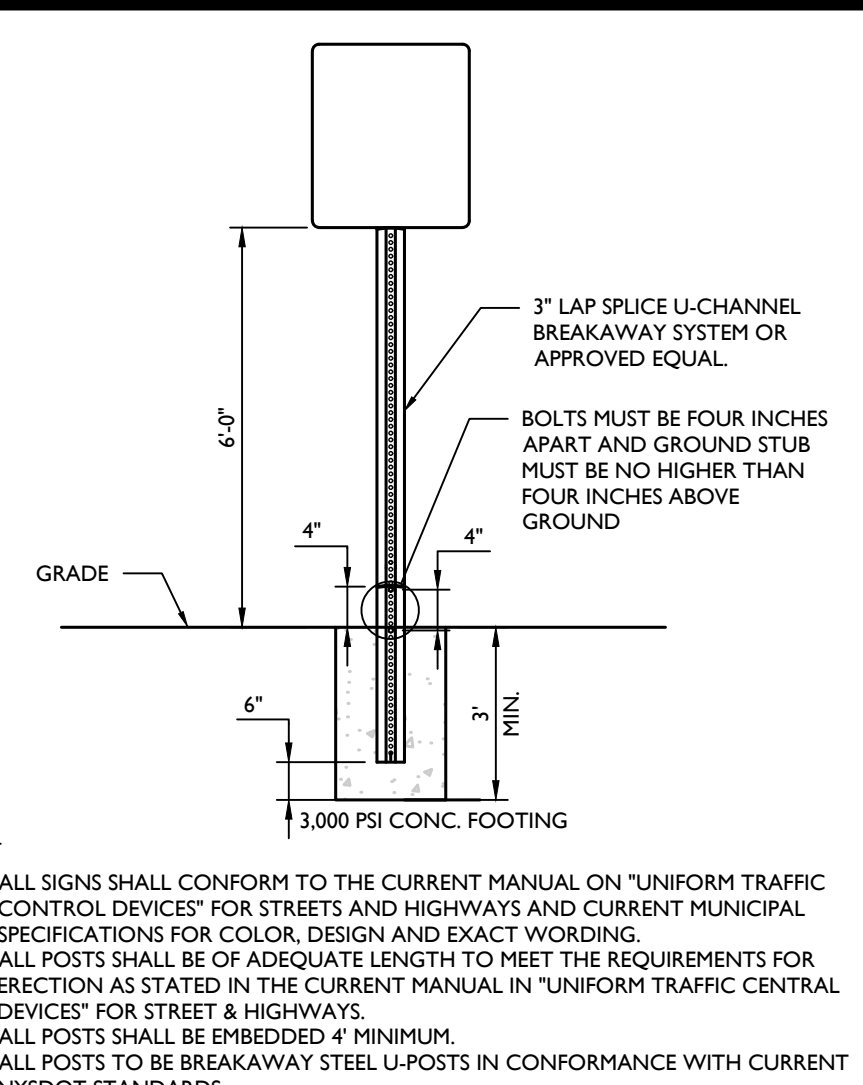
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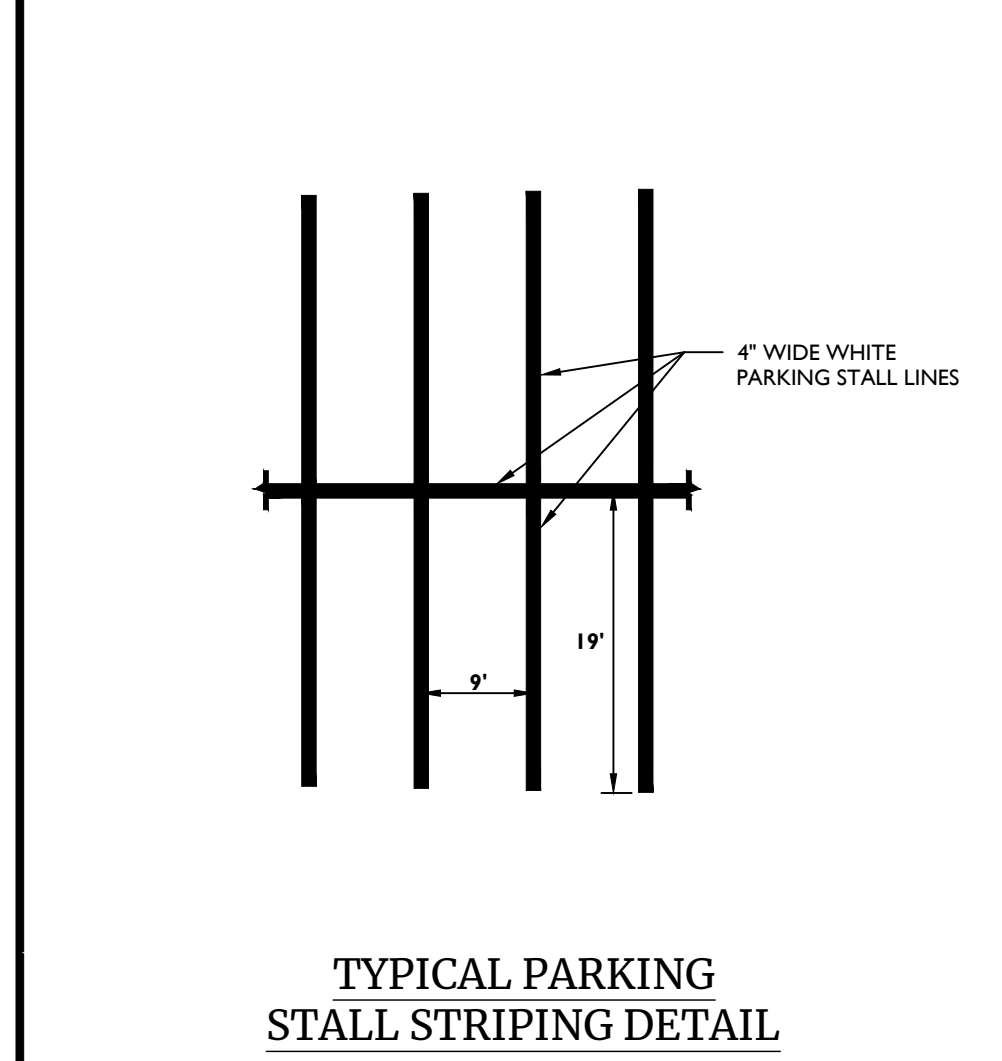
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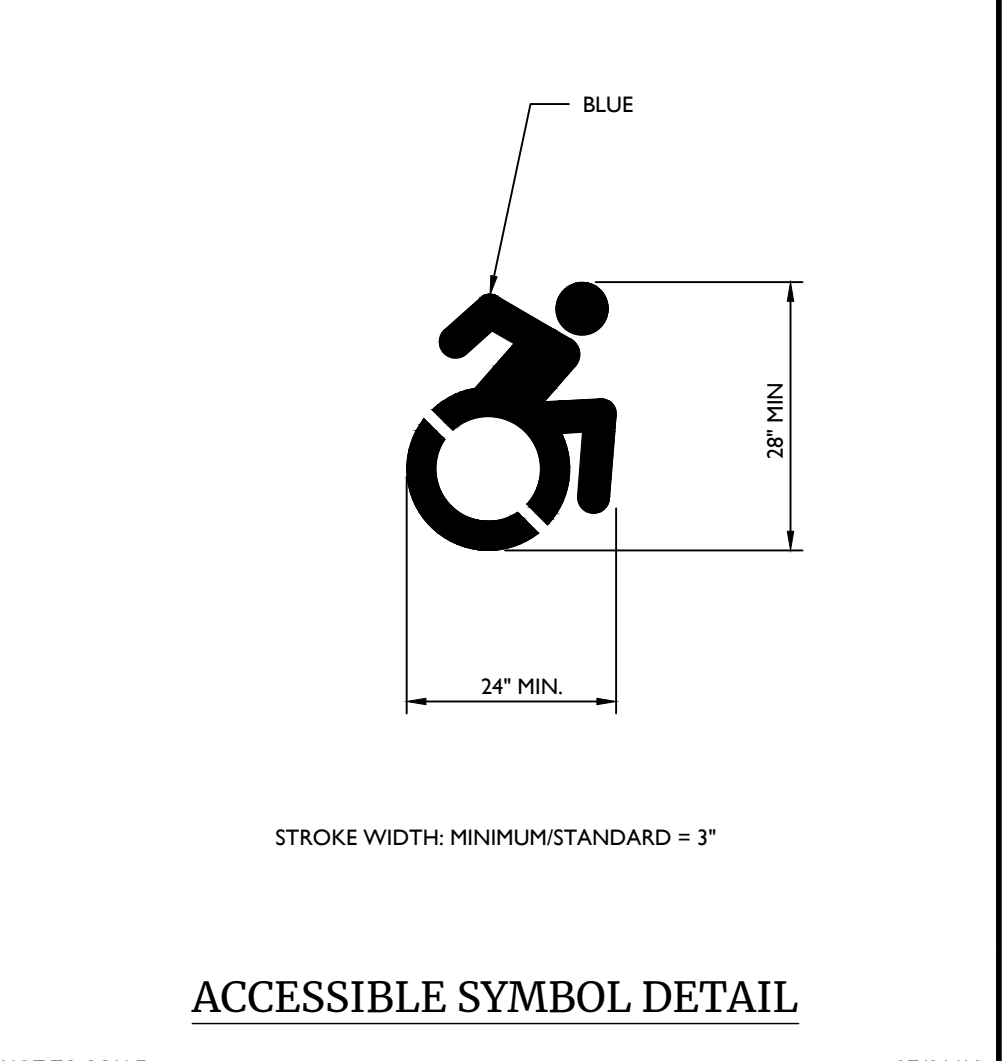
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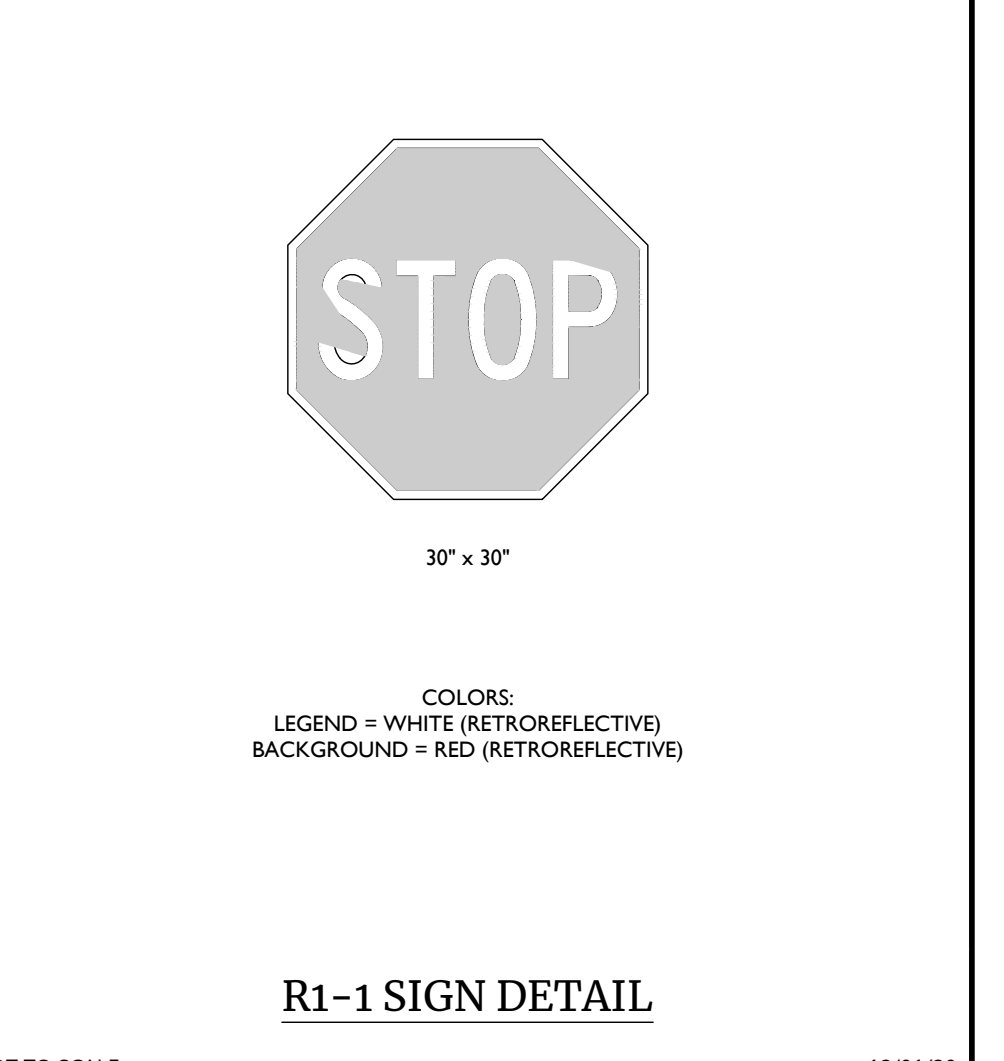
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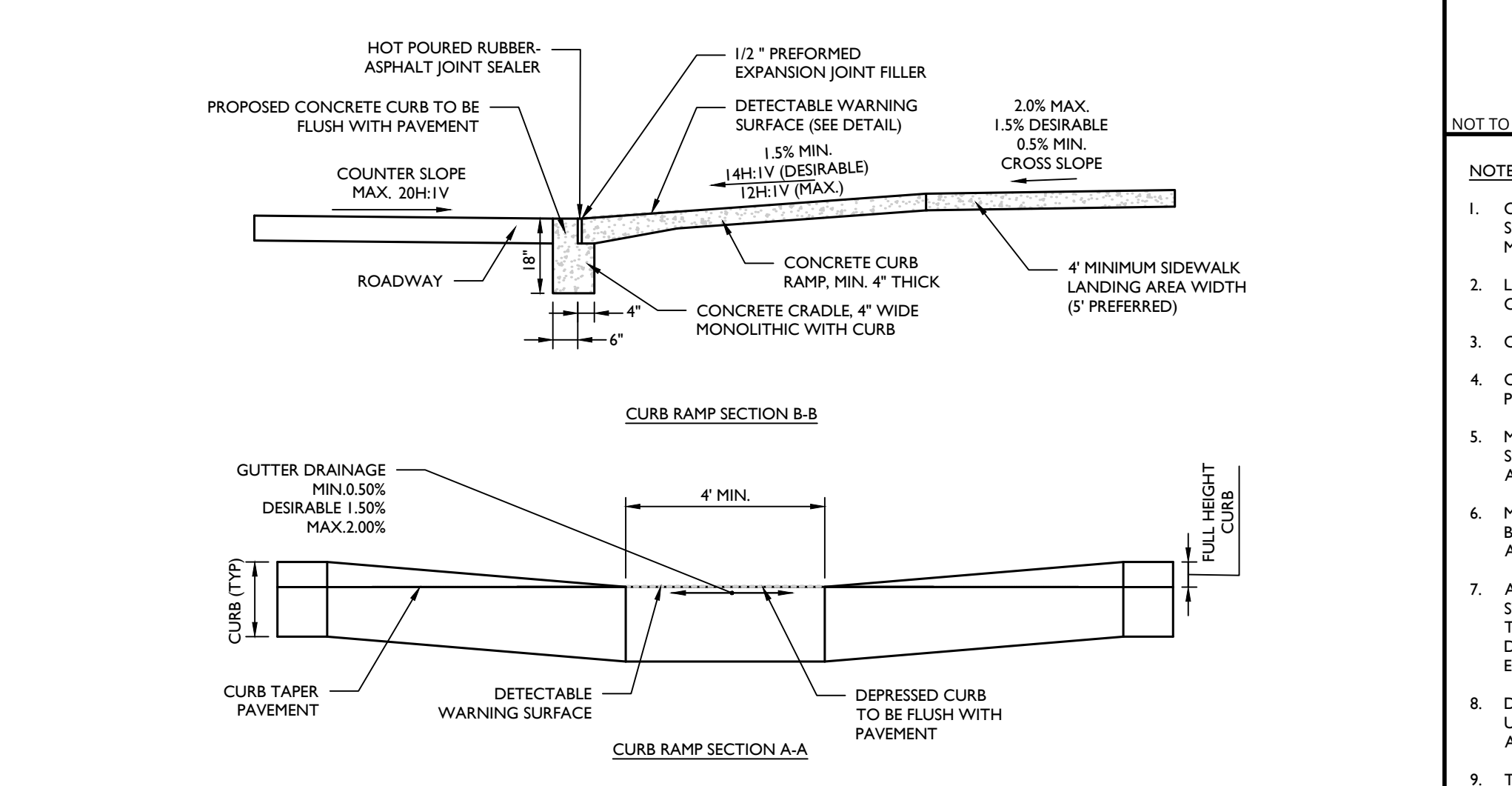
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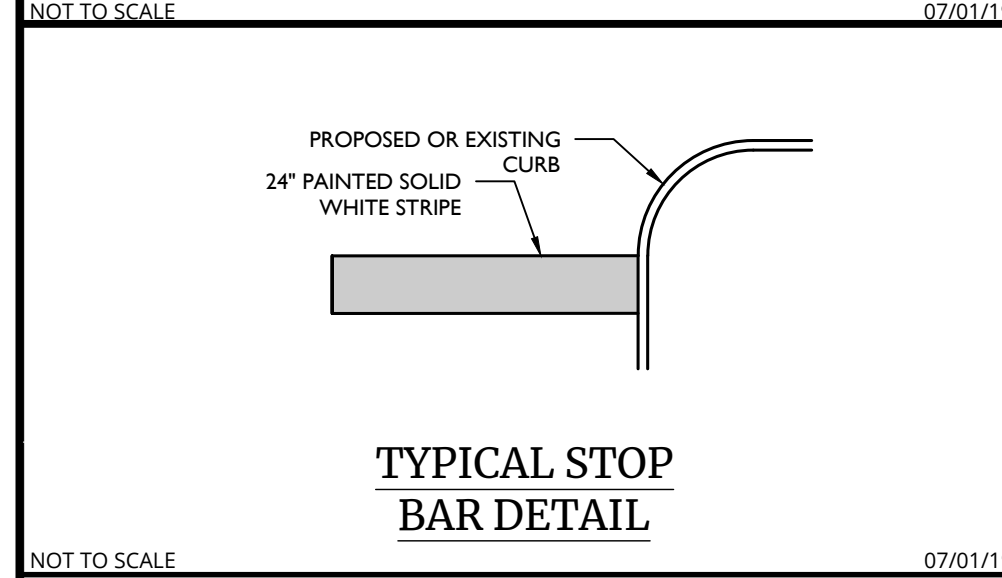
BREAKAWAY SIGN POST DETAIL

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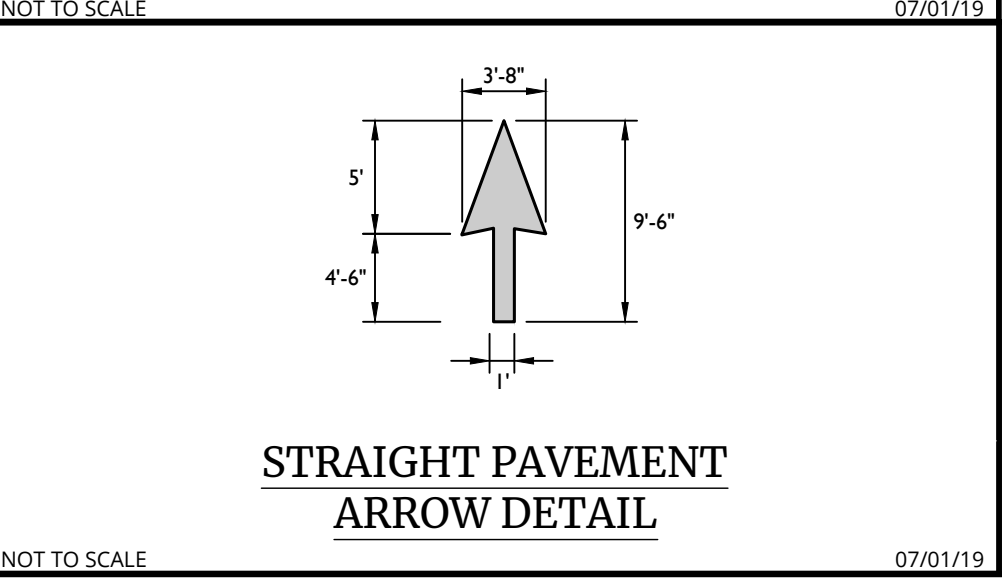
NOTES:

- CONTRACTOR SHALL PREPARE SHOP DRAWINGS OF EACH CURB RAMP FOR SUBMISSION AND APPROVAL OF THE UNDERSIGNED PROFESSIONAL AND THE MUNICIPAL, COUNTY, STATE OR OTHER AGENCY'S ENGINEER HAVING JURISDICTION.
- LANDING AREA, APPROACH SIDEWALK TRANSITIONS AND CURB RAMP SHALL BE KEPT CLEAR OF OBSTRUCTIONS.
- CURB AT RAMP OPENING (FLUSH CURB) TO BE FLUSH WITH ROADWAY PAVEMENT.
- CROSSWALKS AND PAVEMENT MARKINGS TO BE INSTALLED AS DENOTED ON SITE PLAN.
- MAXIMUM RAMP SLOPE MAY BE 12H:1V UPON APPROVAL OF ENGINEER. RAMP SLOPES SHOWN ARE THE PREFERRED SLOPE. SIDE FLARE SLOPES MAY BE 10H:1V UPON APPROVAL OF THE ENGINEER.
- MINIMUM RAMP CROSS-SLOPE SHALL BE 0.50%. THE MAXIMUM RAMP CROSS-SLOPE MAY BE 2.00% UPON APPROVAL OF THE ENGINEER. CROSS-SLOPES SHOWN IN THE DETAILS ARE THE PREFERRED SLOPES TO MAINTAIN A LEVEL OF CONSTRUCTION TOLERANCE.
- ACCESSIBLE RAMP SLOPES TO BE INSTALLED PURSUANT WITH THE CURRENT UNITED STATES ACCESS BOARD ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES AND THE ADA STANDARDS FOR ACCESSIBLE DESIGN AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE AND OTHER APPLICABLE LOCAL AND STATE STANDARDS IN EFFECT AT THE DATE OF CONSTRUCTION.
- DEVIATIONS FROM THE CURB RAMP DETAILS REQUIRE WRITTEN APPROVAL OF THE UNDERSIGNED PROFESSIONAL AND THE MUNICIPAL, COUNTY, STATE OR OTHER AGENCY'S ENGINEER HAVING JURISDICTION.
- THE RAMP SURFACE SHALL HAVE A NON-SLIP, HAND BROOMED FINISH.
- CONCRETE EXPANSION JOINTS SHALL HAVE A FIRM SURFACE WITH 1/4\"/>

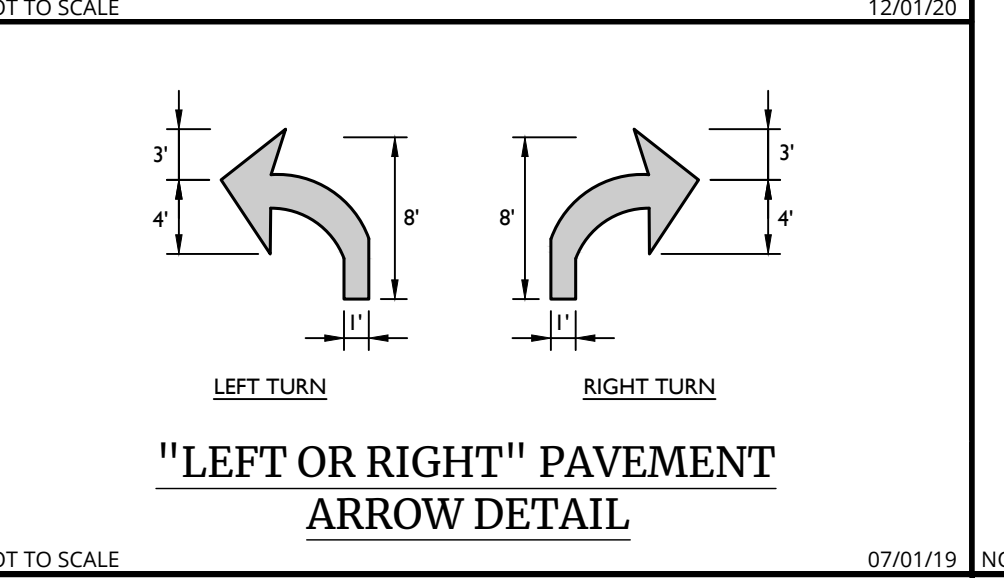
REV	DATE	DESCRIPTION
1	02/04/22	REVISED WETLAND IMPACT REDUCTION & DETAILS FOR GEG SUBMISSION.



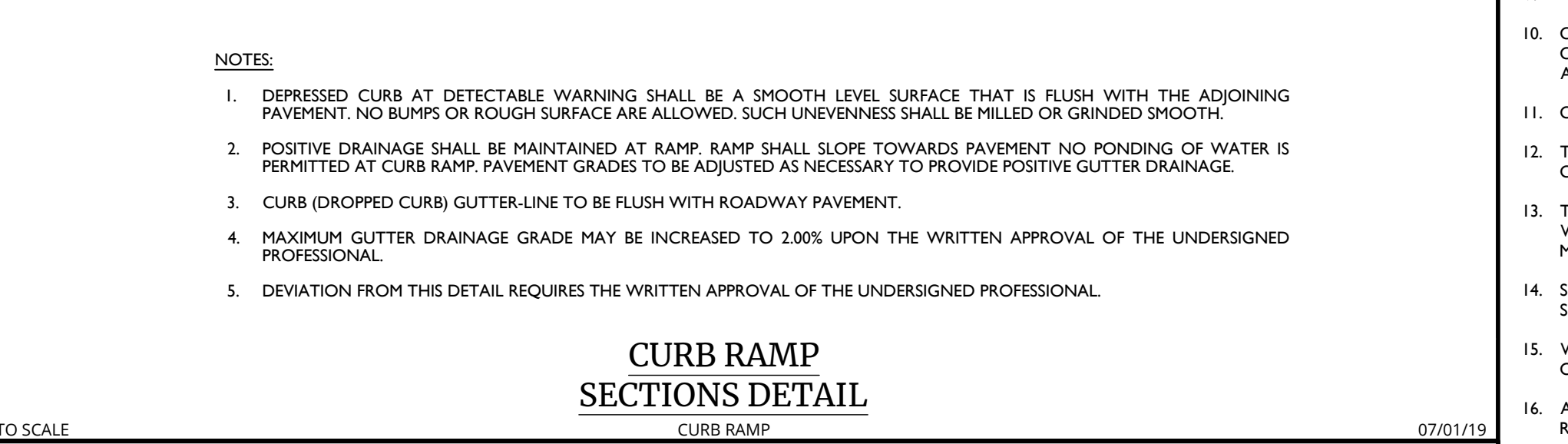
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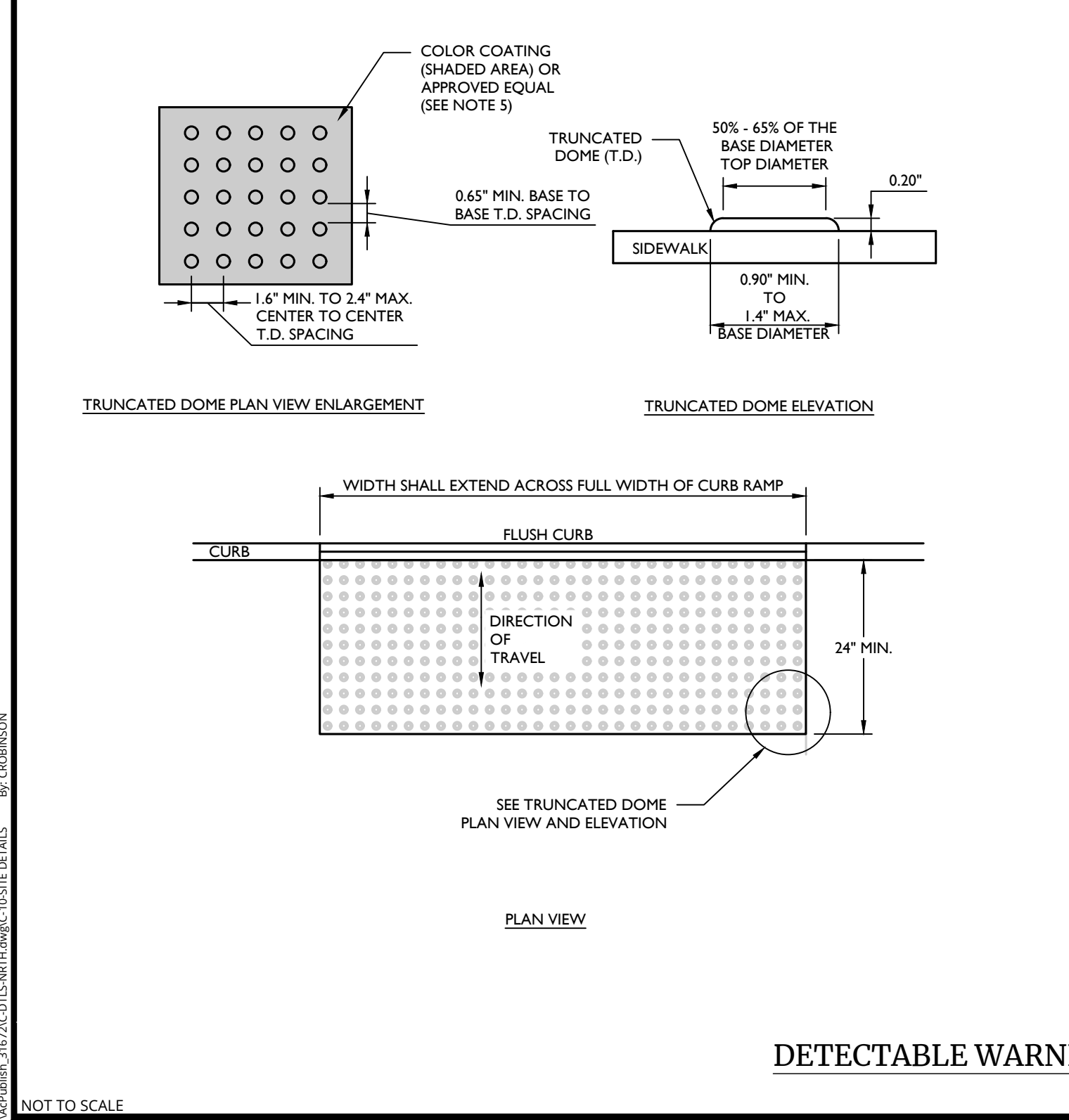


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CURB RAMP NOTES

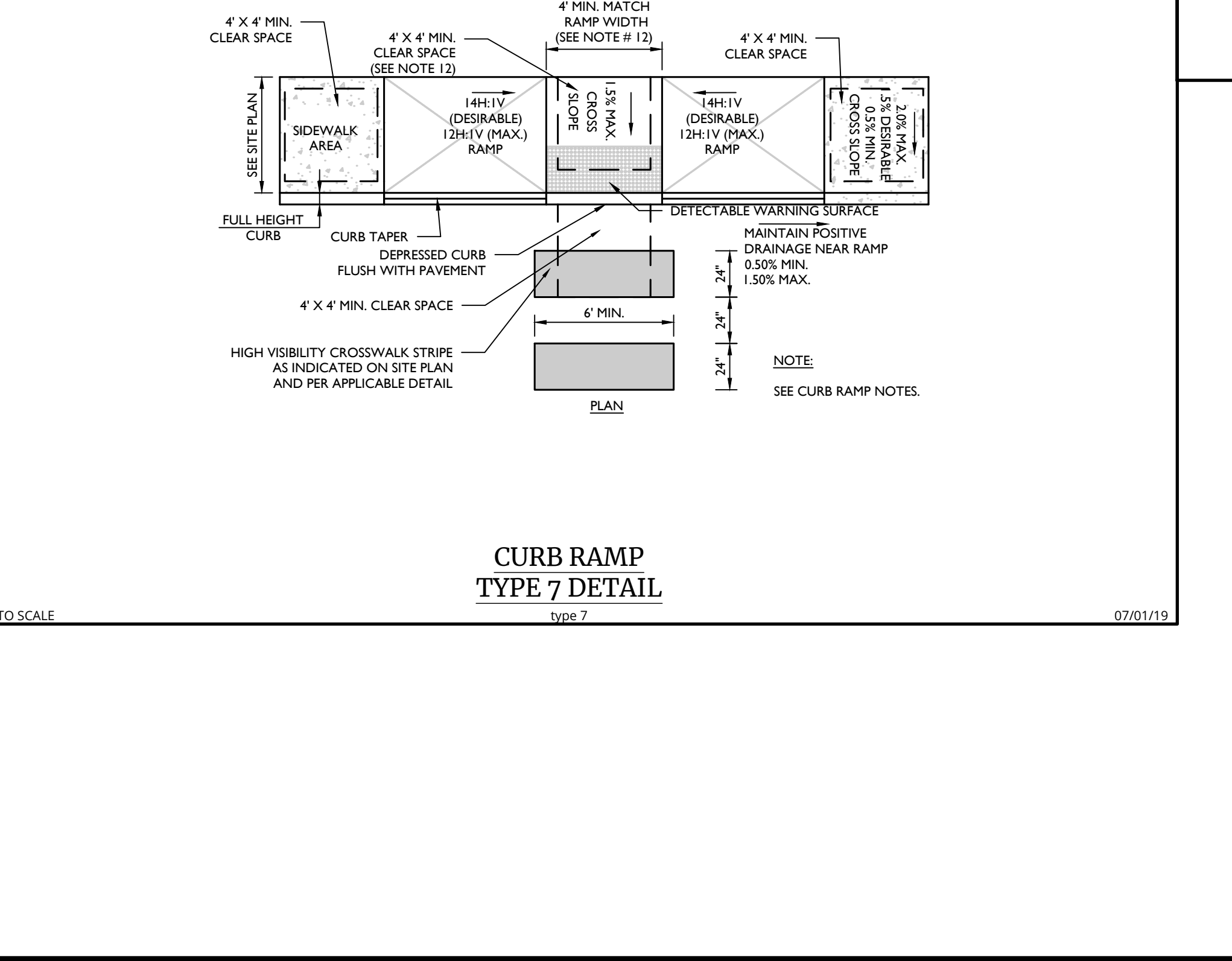
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- DEPRESSED CURB AT DETECTABLE WARNING SHALL BE A SMOOTH LEVEL SURFACE THAT IS FLUSH WITH THE ADJOINING PAVEMENT. NO BUMPS OR ROUGH SURFACE ARE ALLOWED. SUCH UNEVENNESS SHALL BE MILLED OR GRINDED SMOOTH.
- POSITIVE DRAINAGE SHALL BE MAINTAINED AT RAMP. RAMP SHALL SLOPE TOWARDS PAVEMENT NO PONDING OF WATER IS PERMITTED AT CURB RAMP. PAVEMENT GRADES TO BE ADJUSTED AS NECESSARY TO PROVIDE POSITIVE GUTTER DRAINAGE.
- CURB (DROPPED CURB) GUTTER-LINE TO BE FLUSH WITH ROADWAY PAVEMENT.
- MAXIMUM GUTTER DRAINAGE GRADE MAY BE INCREASED TO 2.00% UPON THE WRITTEN APPROVAL OF THE UNDERSIGNED PROFESSIONAL.
- DEVIATION FROM THIS DETAIL REQUIRES THE WRITTEN APPROVAL OF THE UNDERSIGNED PROFESSIONAL.



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- NOTES:
- THE DETECTABLE WARNING SURFACE SHALL BE MANUFACTURED MATS THAT ARE EMBEDDED AND CAST-IN-PLACE IN THE CONCRETE.
 - IN LIEU OF A CAST IN PLACE DETECTABLE WARNING SURFACE, THE CONTRACTOR MAY UTILIZE A SURFACE APPLIED DETECTABLE WARNING SURFACE WITH PRIOR APPROVAL OF THE UNDERSIGNED ENGINEER AND PRIOR TO POURING OF THE CONCRETE RAMP.
 - THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A SHOP DRAWING OF THE DETECTABLE WARNING SURFACE PRIOR TO CONSTRUCTION FOR APPROVAL.
 - THE CONTRACTOR SHALL PROVIDE A MANUFACTURER CERTIFICATION THAT THE DETECTABLE WARNING SURFACE COMPLIES WITH THE CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN AS PUBLISHED BY THE DEPARTMENT OF JUSTICE AND THE ADA STANDARDS AS SUPPORTED BY THE UNITED STATES ACCESS BOARD, AND THE STATE AND/OR LOCAL ADA STANDARDS.
 - SAFETY RED** SHALL BE APPROVED BY THE LOCAL JURISDICTION PRIOR TO INSTALLATION. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. ALTERNATIVE COLOR MAY BE USED PROVIDED SUCH COLOR COMPLIES WITH CURRENT ADA STANDARDS.
 - DETECTABLE WARNINGS SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES.
 - TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER OF 0.9 INCH (23 mm) MINIMUM AND 1.4 INCHES (36 mm) MAXIMUM, A TOP DIAMETER OF 50 PERCENT OF THE BASE DIAMETER MINIMUM TO 65 PERCENT OF THE BASE DIAMETER MAXIMUM, AND A HEIGHT OF 0.2 INCH (5.1 mm).
 - TRUNCATED DOMES IN DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6 INCHES (41 mm) MINIMUM AND 2.4 INCHES (61 mm) MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65 INCH (17 mm) MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID.
 - SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION. WHERE REQUIRED BY THE MANUFACTURER, THE CONCRETE BORDER SHALL NOT EXCEED 2 INCHES (51 mm).
 - DETECTABLE WARNING SURFACES SHOULD NOT BE PLACED ON PAVING OR EXPANSION JOINTS AT CURB RAMP. THE ROWS OF TRUNCATED DOMES IN DETECTABLE WARNING SURFACES SHOULD BE ALIGNED PERPENDICULAR TO THE GRADE BREAK BETWEEN THE RAMP RUN AND THE STREET SO PEDESTRIANS WHO USE WHEELCHAIRS CAN "TRACK" BETWEEN THE DOMES.
 - ON PERPENDICULAR CURB RAMP, DETECTABLE WARNING SURFACES SHALL BE PLACED AS FOLLOWS:
 - WHERE THE ENDS OF THE BOTTOM GRADE BREAK ARE IN FRONT OF THE BACK OF CURB, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE BACK OF CURB.
 - WHERE THE ENDS OF THE BOTTOM GRADE BREAK ARE BEHIND THE BACK OF CURB AND THE DISTANCE FROM EITHER END OF THE BOTTOM GRADE BREAK TO THE BACK OF CURB IS 5.0 FT OR LESS, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE RAMP RUN WITHIN ONE DOME SPACING OF THE BOTTOM GRADE BREAK.
 - WHERE THE ENDS OF THE BOTTOM GRADE BREAK ARE BEHIND THE BACK OF CURB AND THE DISTANCE FROM EITHER END OF THE BOTTOM GRADE BREAK TO THE BACK OF CURB IS MORE THAN 5.0 FT, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE LOWER LANDING AT THE BACK OF CURB.
 - ON PARALLEL CURB RAMP, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE TURNING SPACE AT THE FLUSH TRANSITION BETWEEN THE STREET AND SIDEWALKS.
 - ON BLENDED TRANSITIONS, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE BACK OF CURB.



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1	02/04/22	REVISED WETLAND IMPACT REDUCTION & DETAILS FOR GEG SUBMISSION.

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF ARTICLE 145, SECTION 7209, SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Andrew B. Fetherston
NEW YORK LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 07355-01
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.Y. C.O.A.#: 0077609

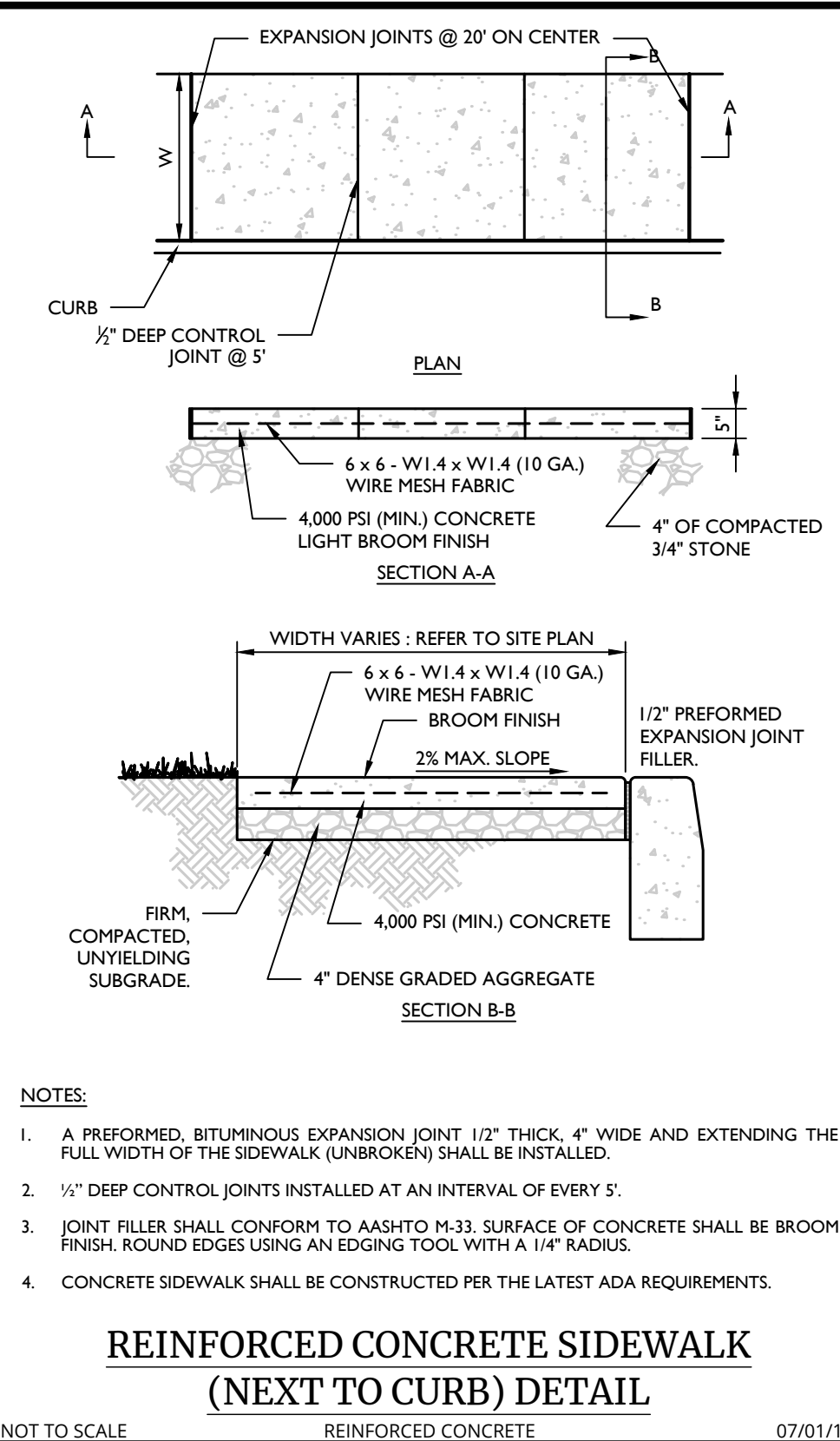
PRELIMINARY SITE PLANS
FOR
DEWPOINT NORTH LLC
SECTION 4
BLOCK 1
LOT 50.2
TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

Colliers 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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ENGINEERING & LAND SURVEYING

SCALE: AS SHOWN DATE: 01/10/2022 DRAWN BY: MAS CHECKED BY: CDR
PROJECT NUMBER: 20005912A DRAWING NAME: C-DT15-NRTH
SHEET TITLE: SITE DETAILS
SHEET NUMBER: 10 of 16

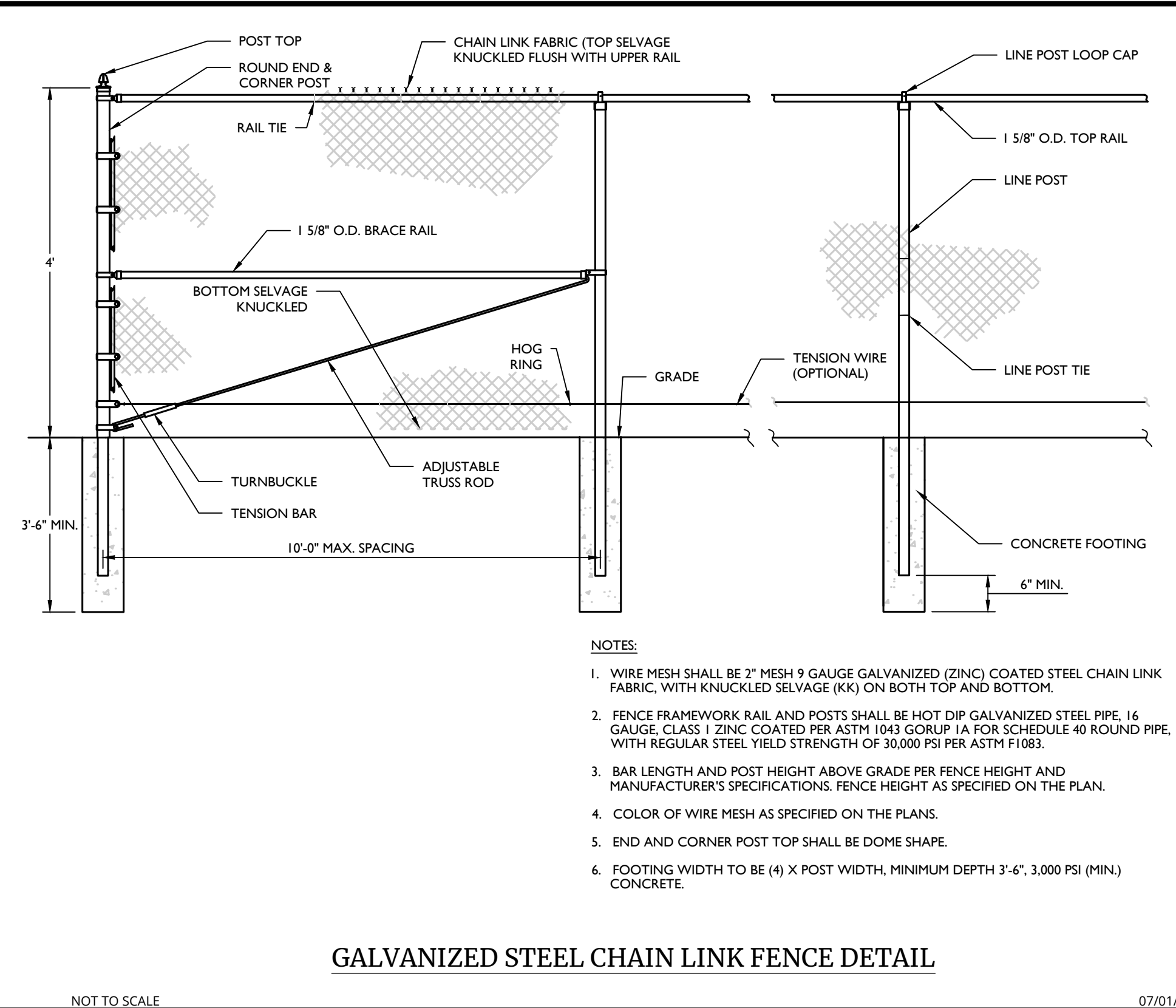
V:\01\10\2022\C15\NRTH\DWG\SITE DETAILS - BR. COBURNSON

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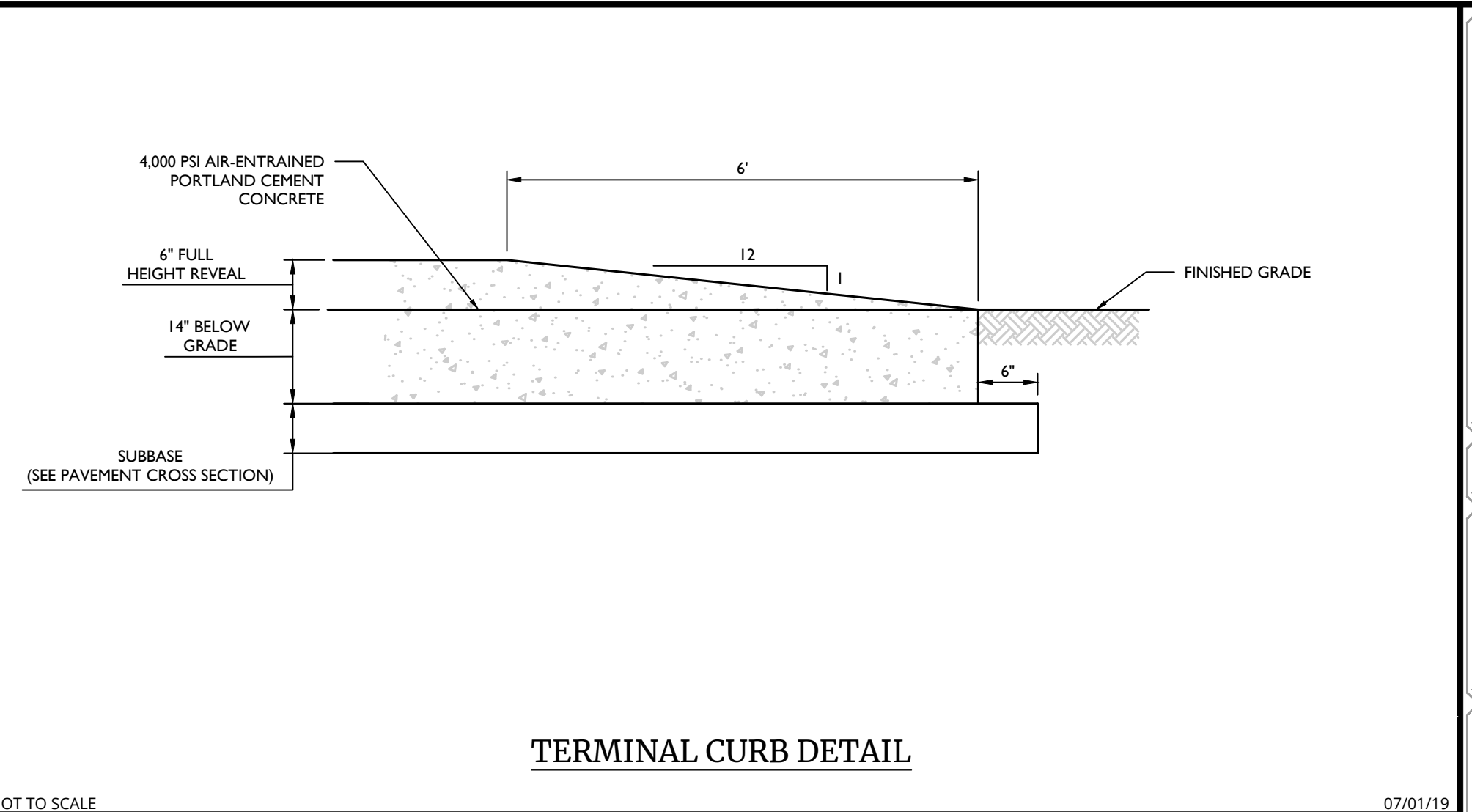
REINFORCED CONCRETE SIDEWALK (NEXT TO CURB) DETAIL

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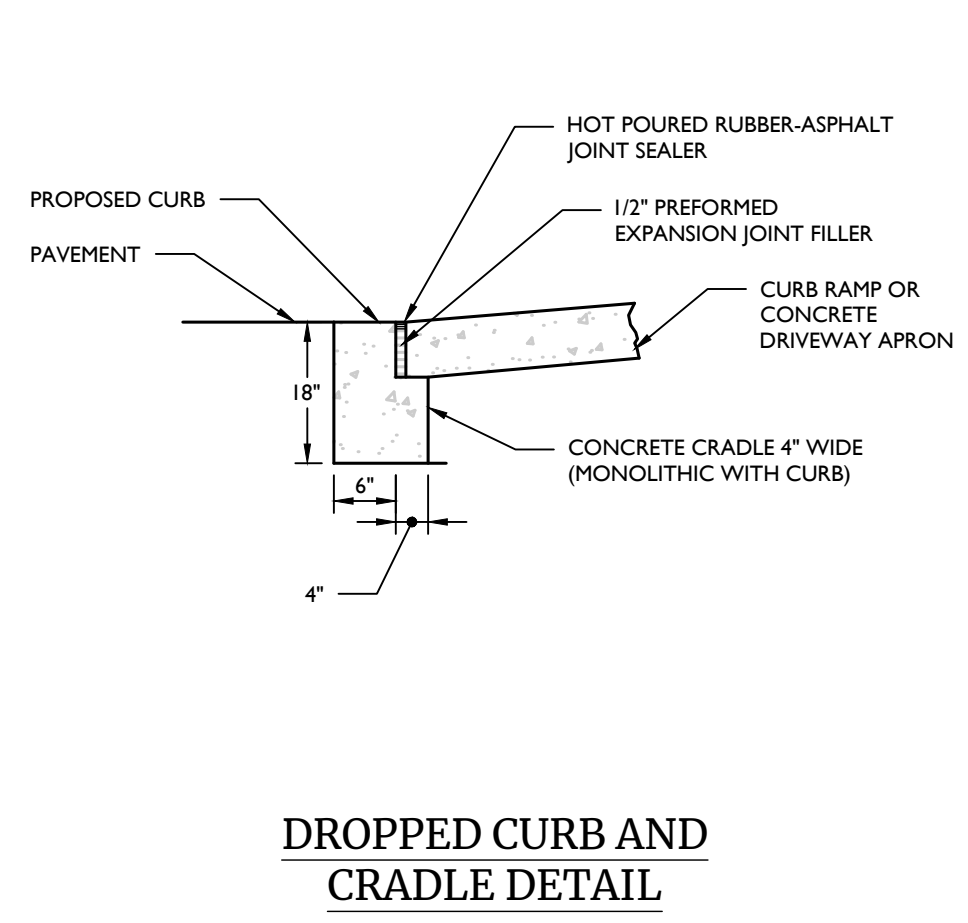
GALVANIZED STEEL CHAIN LINK FENCE DETAIL

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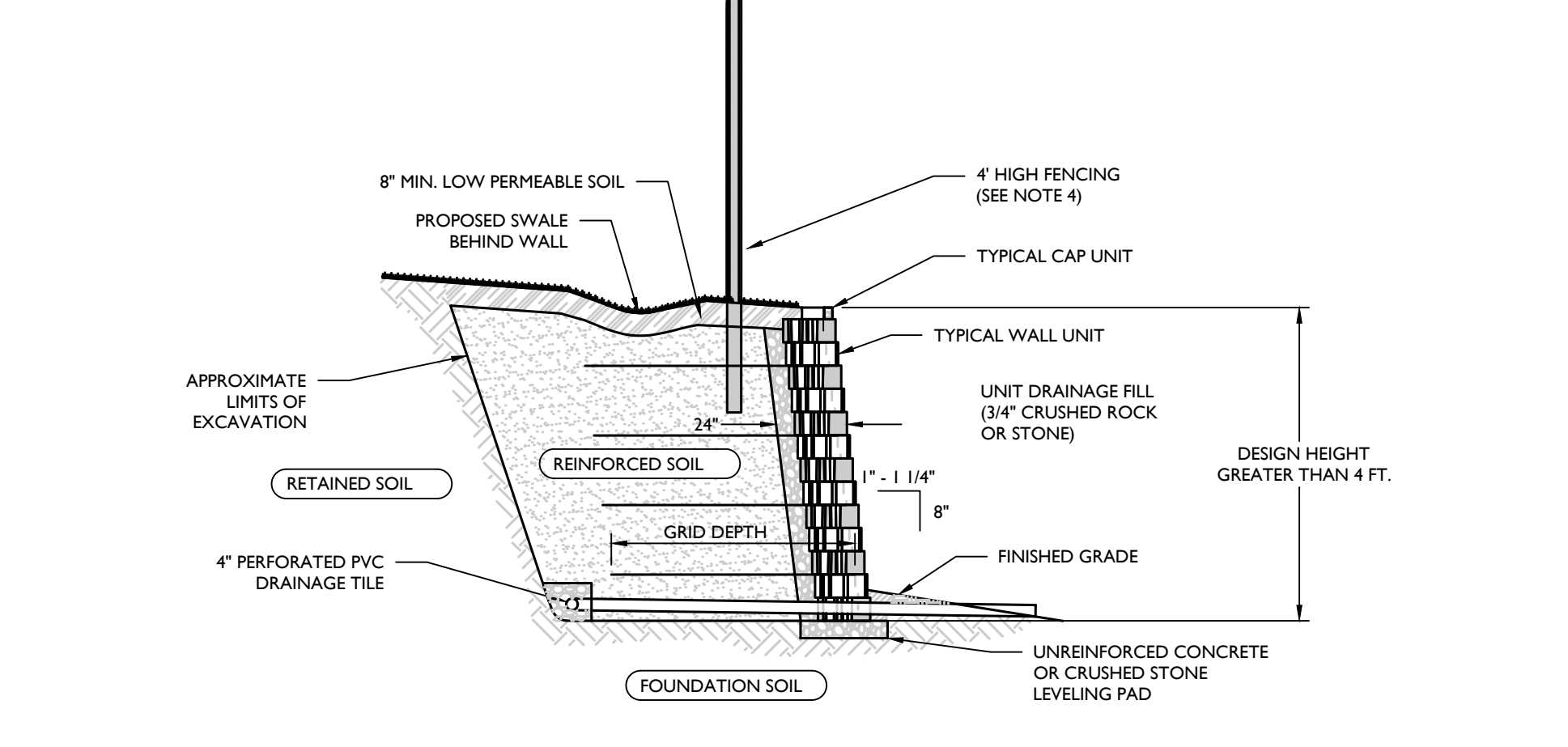
TERMINAL CURB DETAIL

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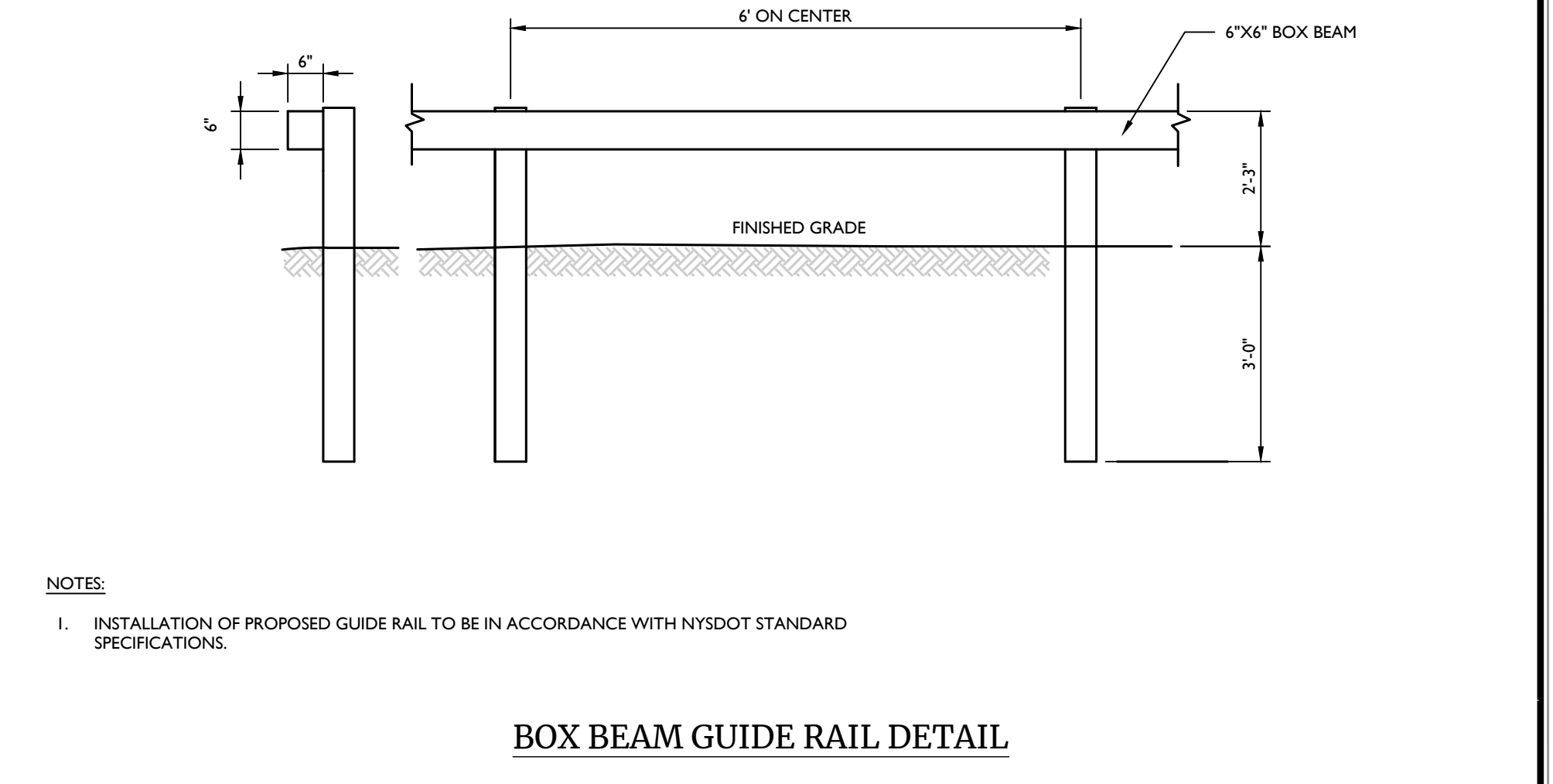
DROPPED CURB AND CRADLE DETAIL

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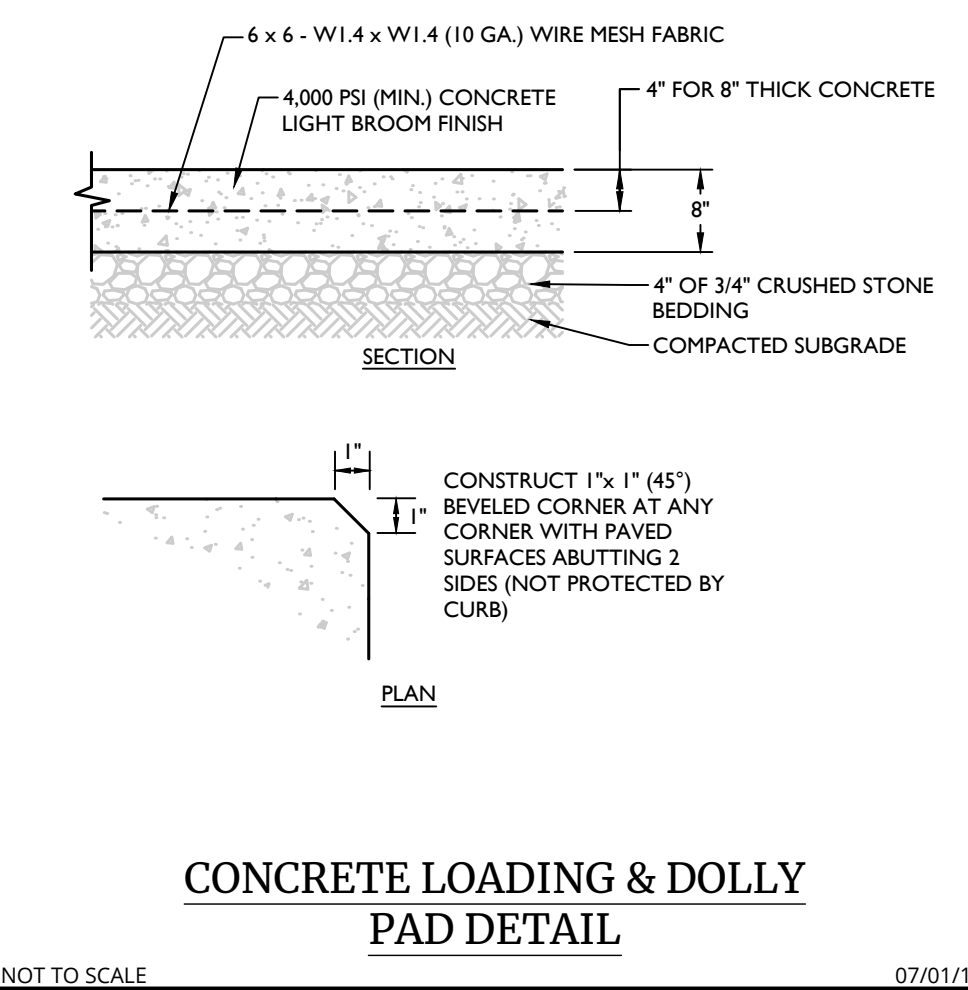
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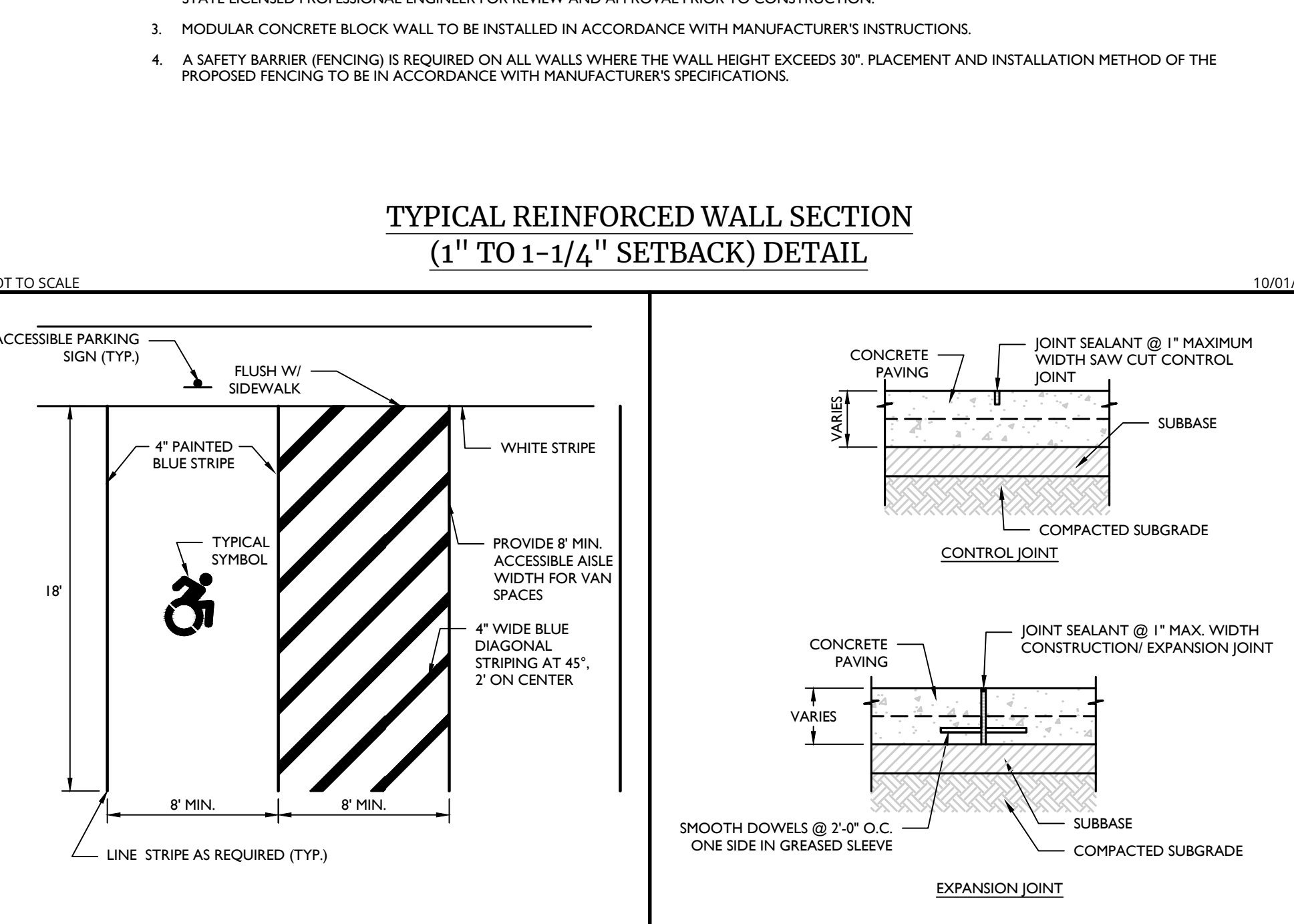
BOX BEAM GUIDE RAIL DETAIL

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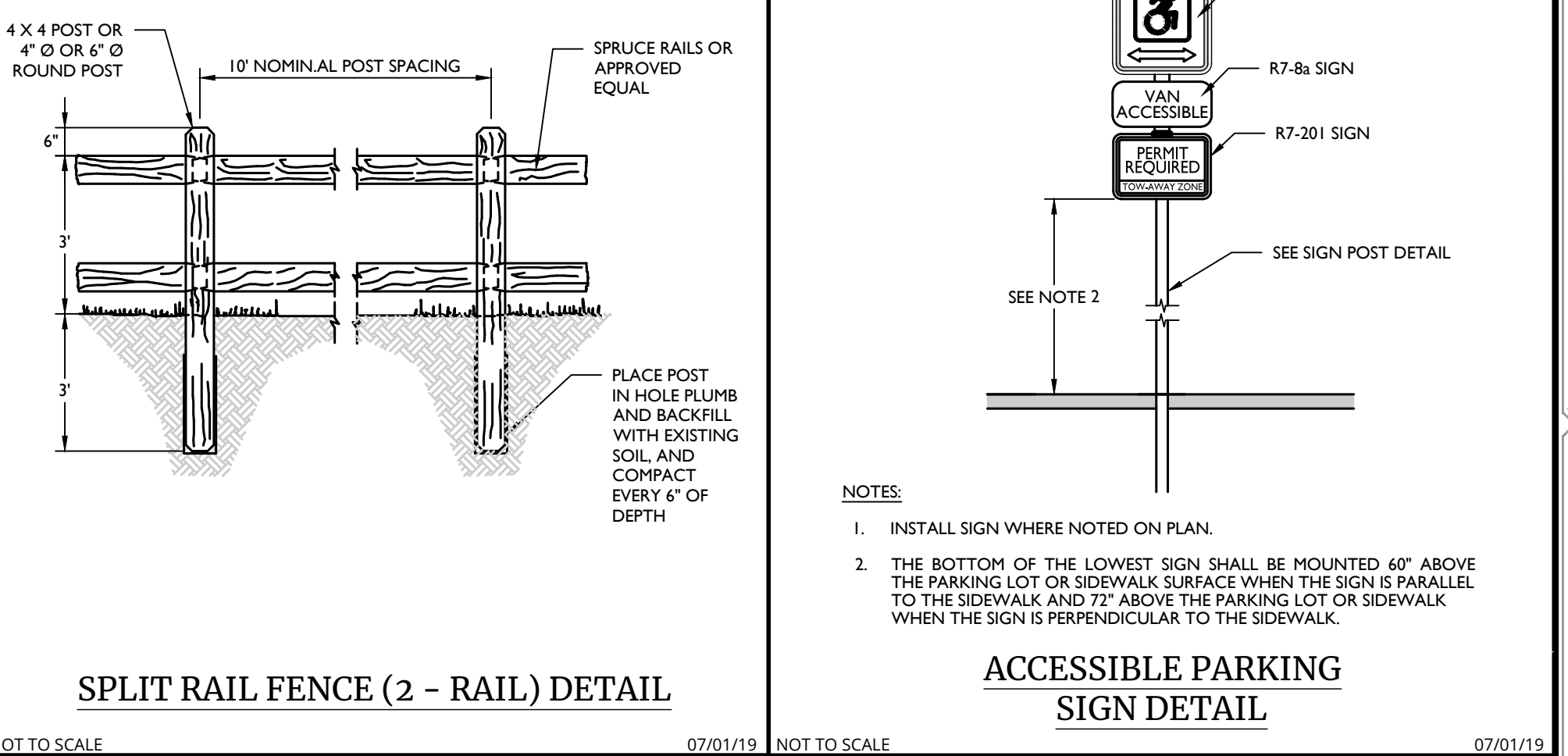
CONCRETE LOADING & DOLLY PAD DETAIL

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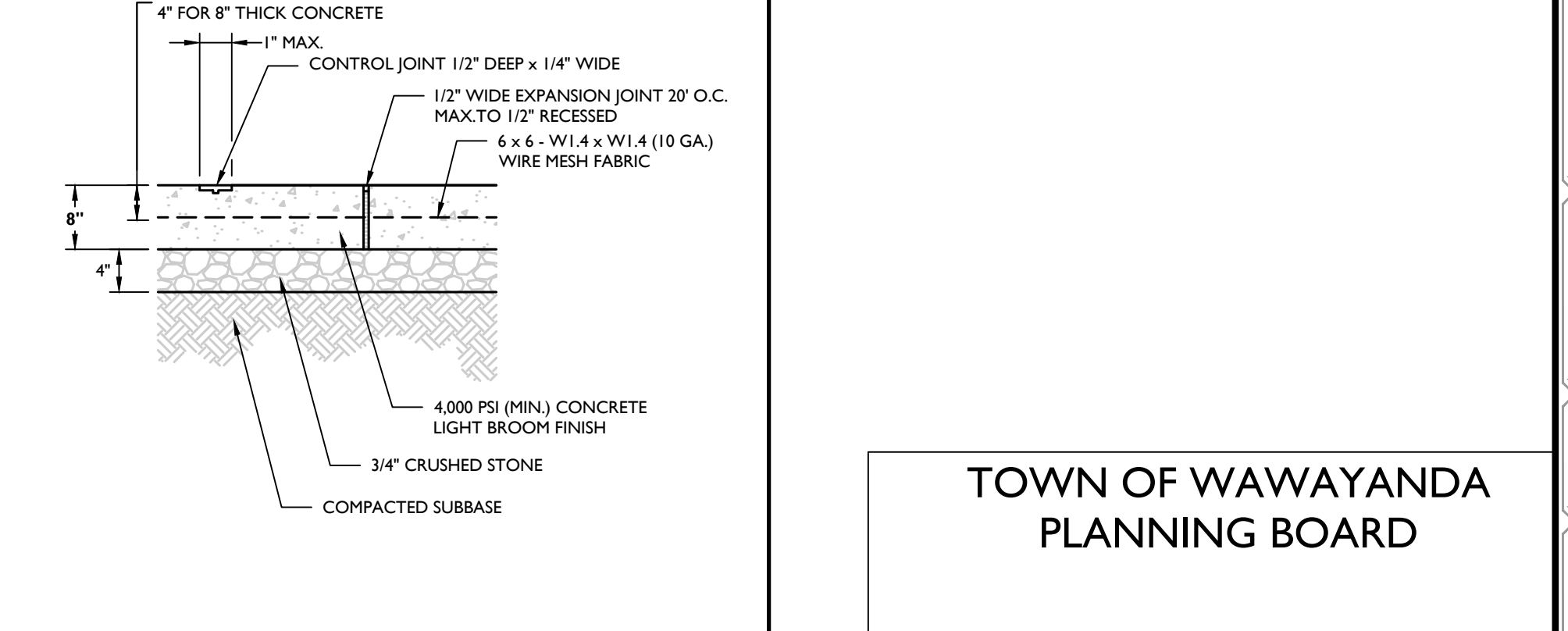
ACCESSIBLE PARKING LINE STRIPE STALL DETAIL

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SPLIT RAIL FENCE (2 - RAIL) DETAIL

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CONCRETE PAVING JOINT'S DETAIL

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PRELIMINARY SITE PLANS

FOR
DEWPOINT NORTH LLC

SECTION 4,
 BLOCK 1
 LOT 50.2

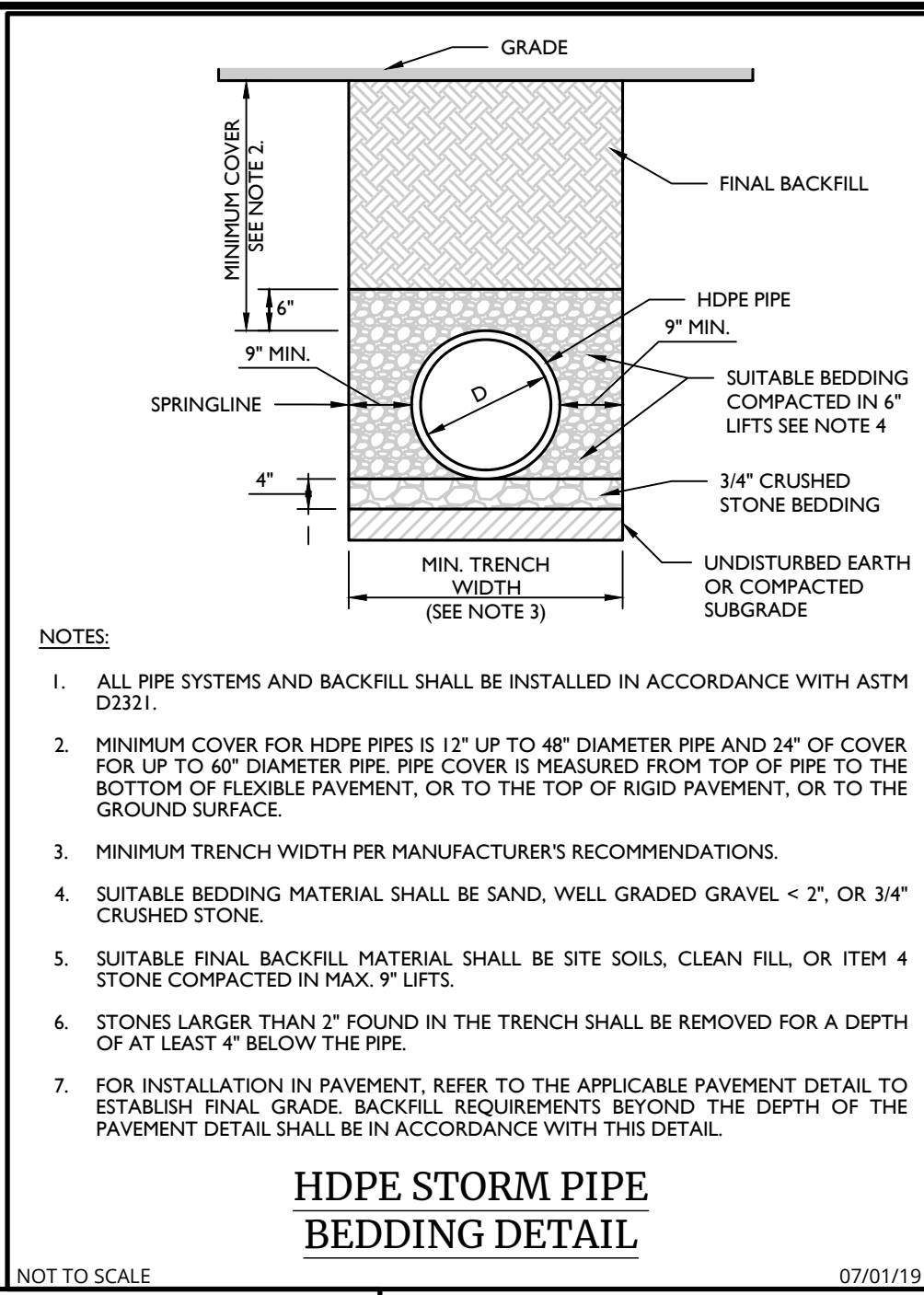
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 SHEET TITLE: SITE DETAILS
 SHEET NUMBER: 11 of 16

W:\Projects\11702\CDLS\NORTH\DWG\11 SITE DETAILS - B.C. COBURN

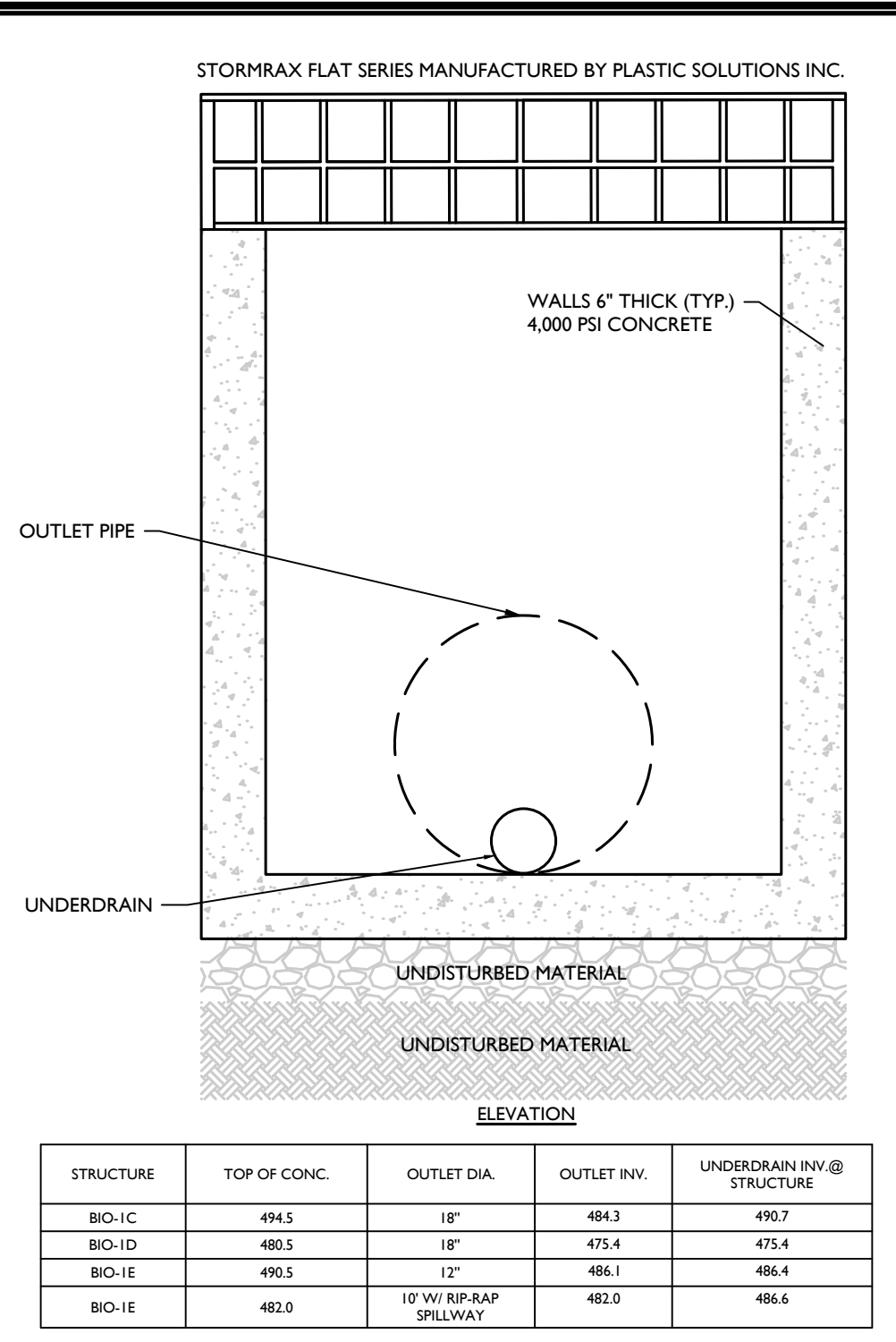
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- NOTES:**
1. ALL PIPE SYSTEMS AND BACKFILL SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321.
 2. MINIMUM COVER FOR HDPE PIPES IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR UP TO 60" DIAMETER PIPE. PIPE COVER IS MEASURED FROM TOP OF PIPE TO THE BOTTOM OF FLEXIBLE PAVEMENT, OR TO THE TOP OF RIGID PAVEMENT, OR TO THE GROUND SURFACE.
 3. MINIMUM TRENCH WIDTH PER MANUFACTURER'S RECOMMENDATIONS.
 4. SUITABLE BEDDING MATERIAL SHALL BE SAND, WELL GRADED GRAVEL < 2", OR 3/4" CRUSHED STONE.
 5. SUITABLE FINAL BACKFILL MATERIAL SHALL BE SITE SOILS, CLEAN FILL, OR ITEM 4 STONE COMPACTED IN MAX. 9" LIFTS.
 6. STONES LARGER THAN 2" FOUND IN THE TRENCH SHALL BE REMOVED FOR A DEPTH OF AT LEAST 4" BELOW THE PIPE.
 7. FOR INSTALLATION IN PAVEMENT, REFER TO THE APPLICABLE PAVEMENT DETAIL TO ESTABLISH FINAL GRADE. BACKFILL REQUIREMENTS BEYOND THE DEPTH OF THE PAVEMENT DETAIL SHALL BE IN ACCORDANCE WITH THIS DETAIL.

HDPE STORM PIPE BEDDING DETAIL

07/01/19

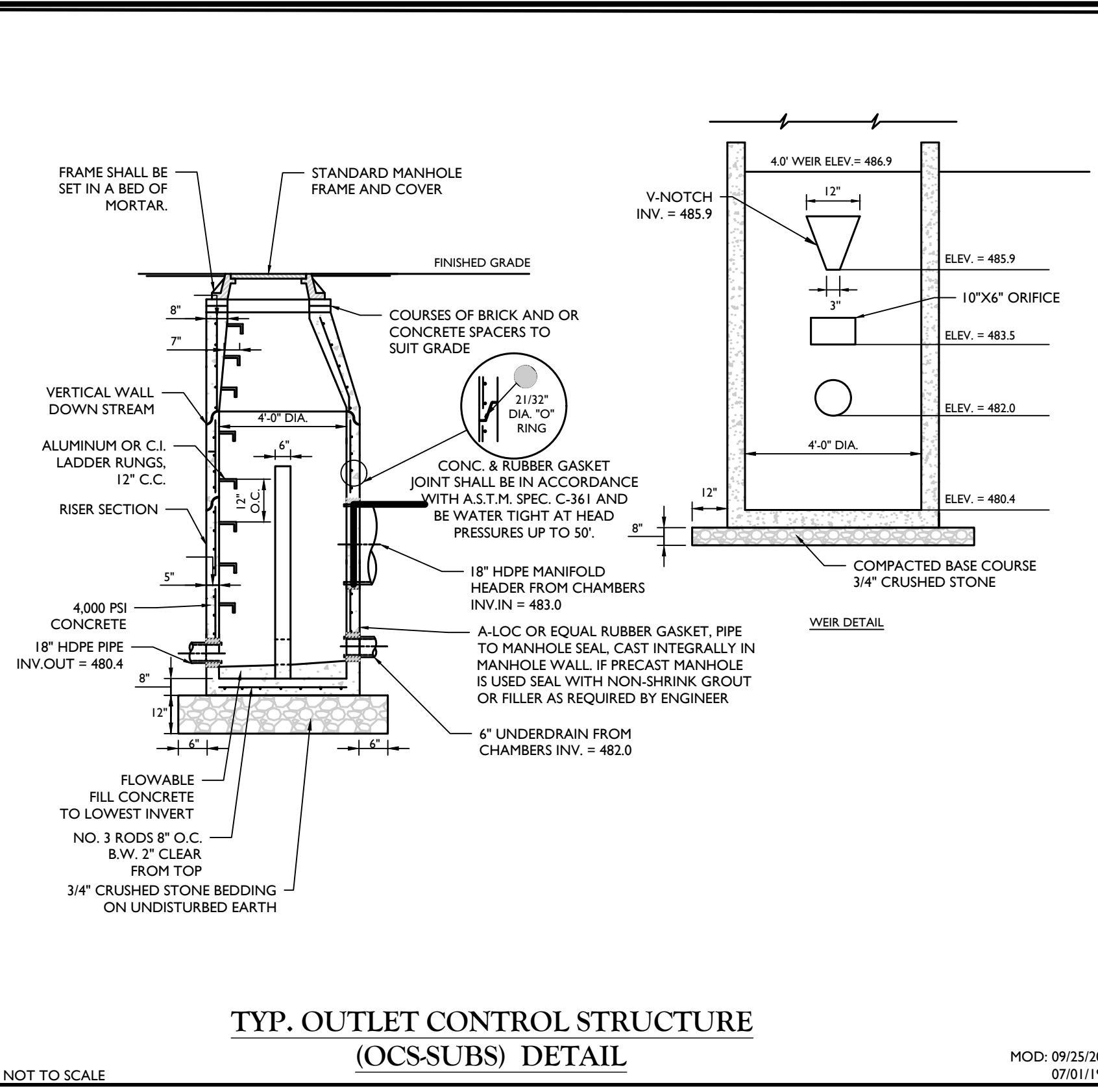


ELEVATION

STRUCTURE	TOP OF CONC.	OUTLET DIA.	OUTLET INV.	UNDERDRAIN INV. @ STRUCTURE
BIO-1C	494.5	18"	484.3	490.7
BIO-1D	486.5	18"	475.4	479.4
BIO-1E	495.5	12"	486.1	486.4
BIO-1F	482.0	10" W/ RIP-RAP SPILLWAY	482.0	486.4

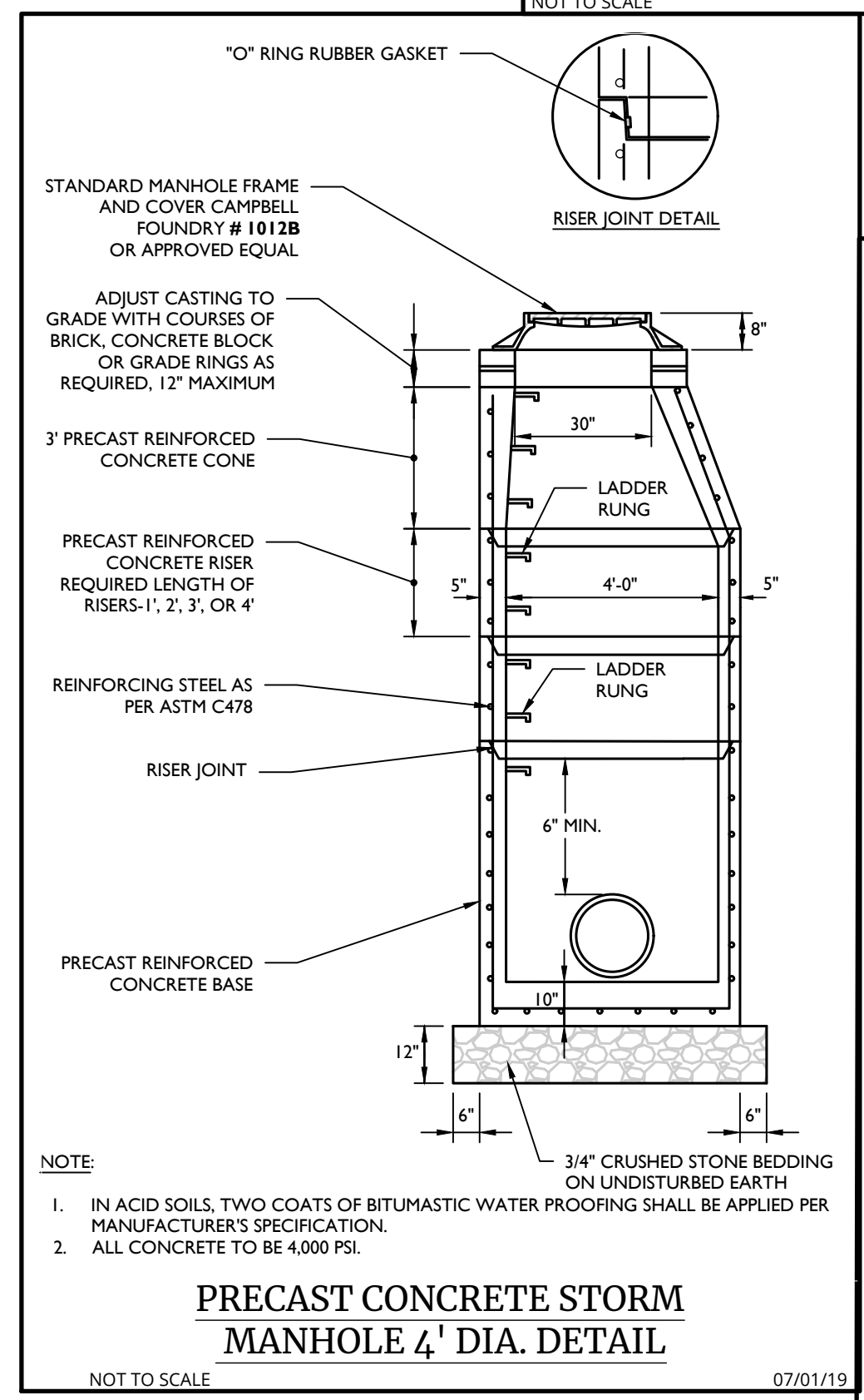
TYP. OUTLET CONTROL STRUCTURE DETAIL

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



TYP. OUTLET CONTROL STRUCTURE (OCS-SUBS) DETAIL

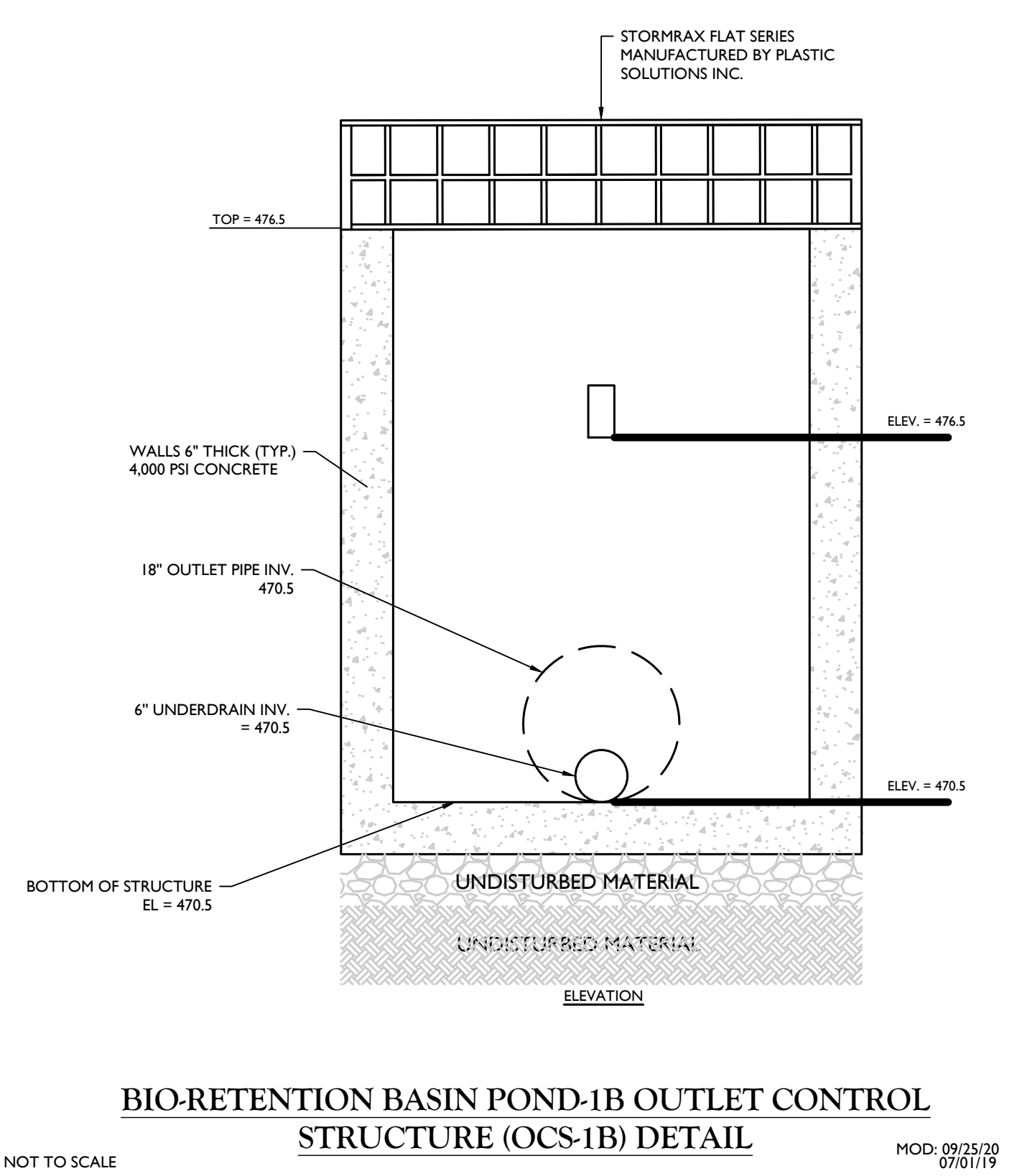
MOD: 09/25/20 07/01/19



- NOTE:**
1. IN ACID SOILS, TWO COATS OF BITUMASTIC WATER PROOFING SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATION.
 2. ALL CONCRETE TO BE 4,000 PSI.

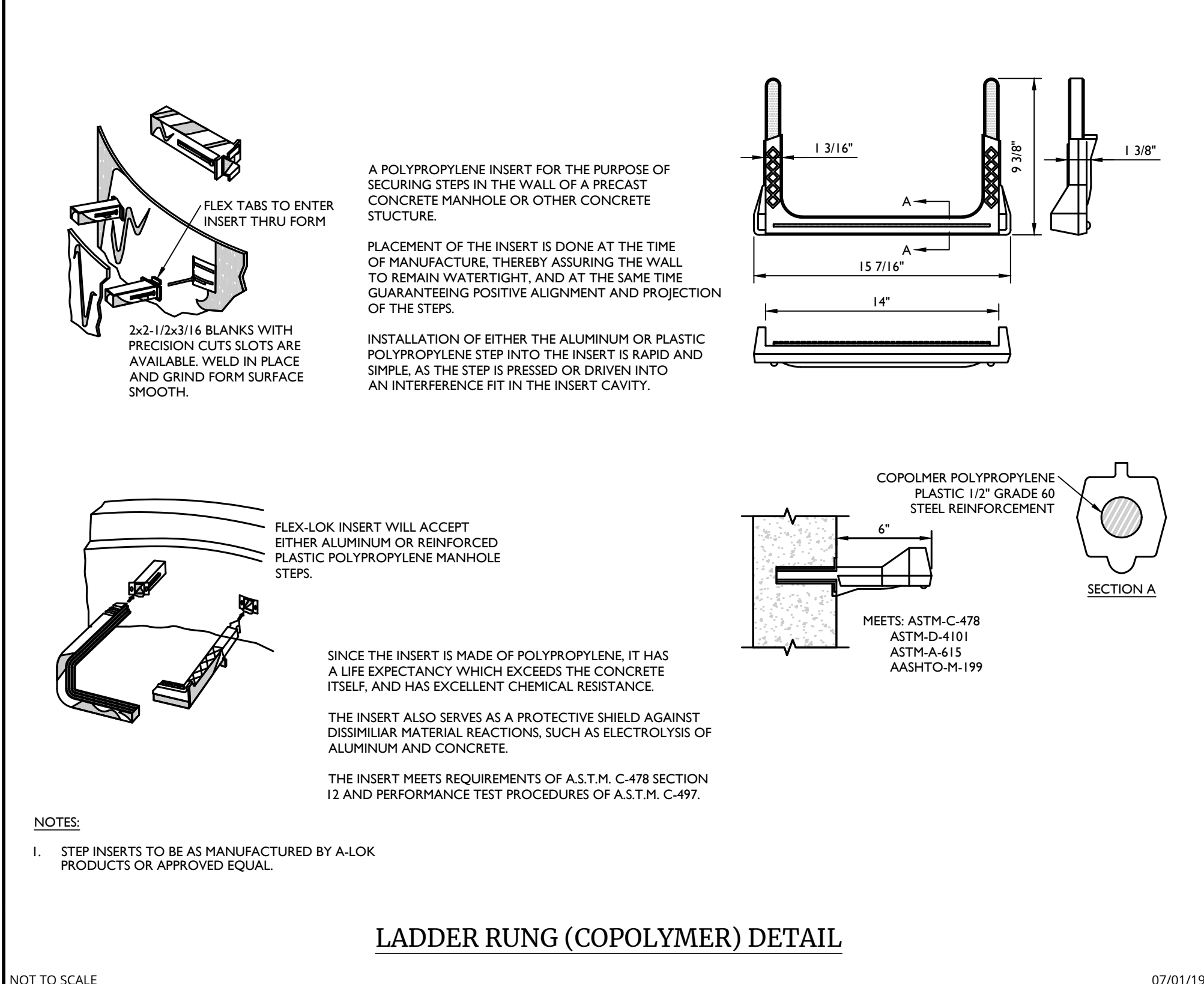
PRECAST CONCRETE STORM MANHOLE 4' DIA. DETAIL

07/01/19



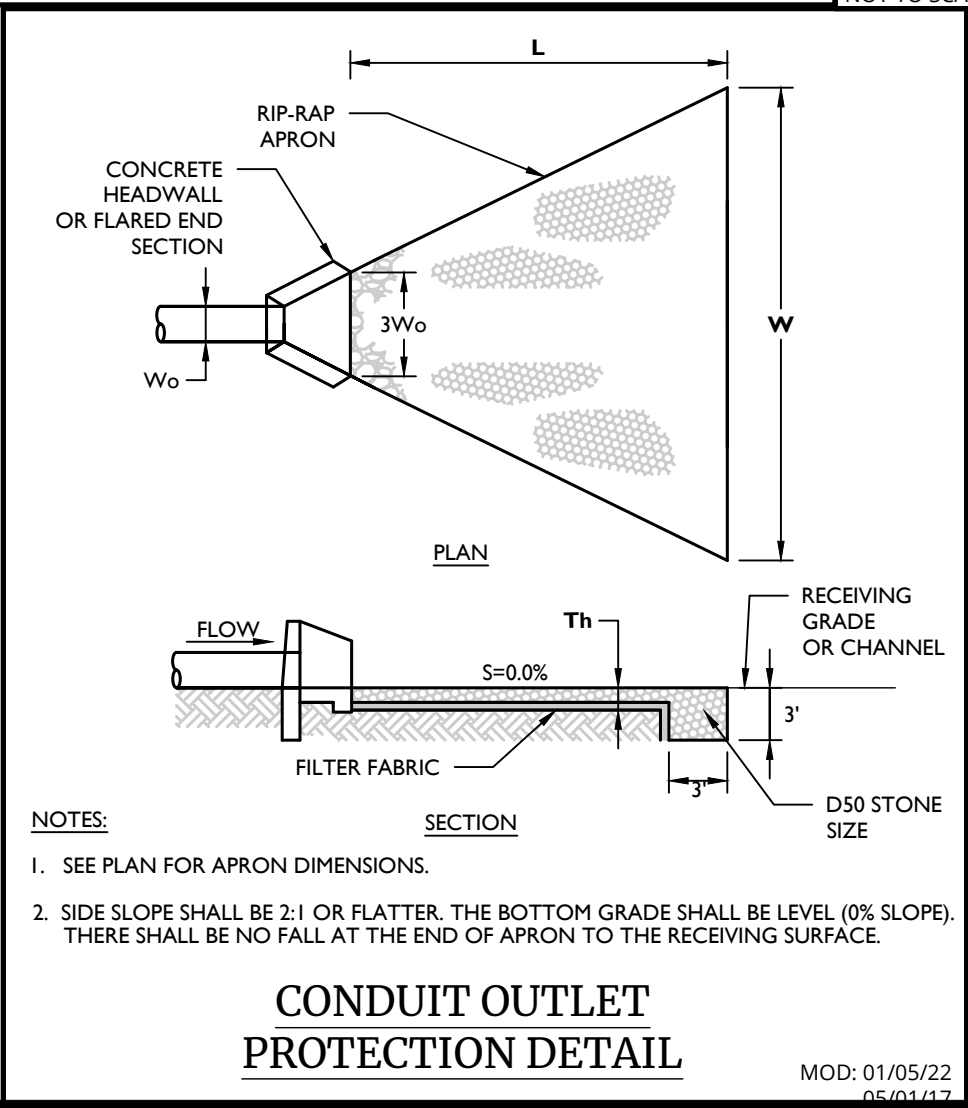
BIO-RETENTION BASIN POND-1B OUTLET CONTROL STRUCTURE (OCS-1B) DETAIL

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



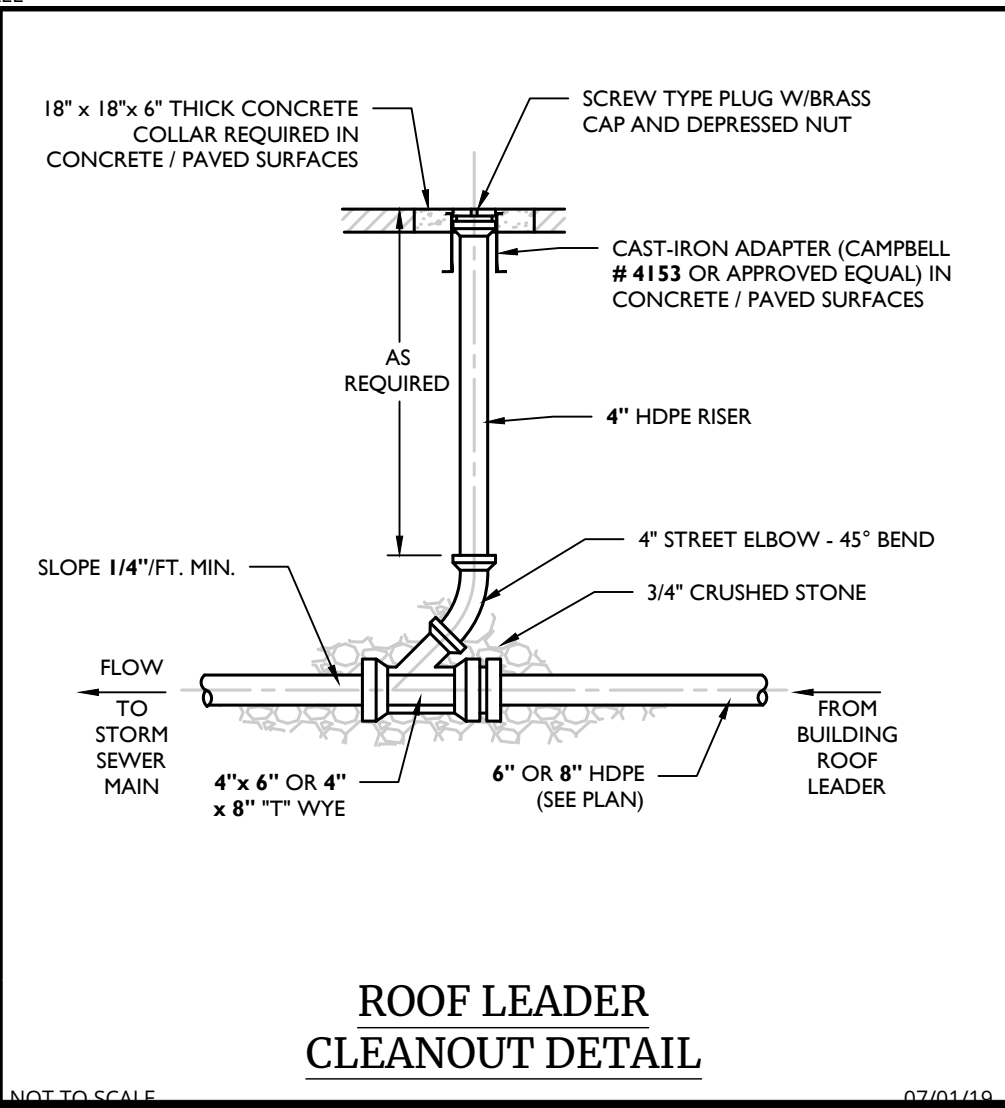
LADDER RUNG (COPOLYMER) DETAIL

07/01/19



CONDUIT OUTLET PROTECTION DETAIL

MOD: 01/05/22 06/04/22



ROOF LEADER CLEANOUT DETAIL

07/01/19

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PRELIMINARY SITE PLANS

FOR
DEWPOINT NORTH LLC

SECTION 4, BLOCK 1, LOT 50.2

TOWN OF WAWAYANDA ORANGE COUNTY NEW YORK STATE

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PROJECT NUMBER:	DRAWING NAME:
20005912A	C-DT15-NRTH

STORMWATER DETAILS

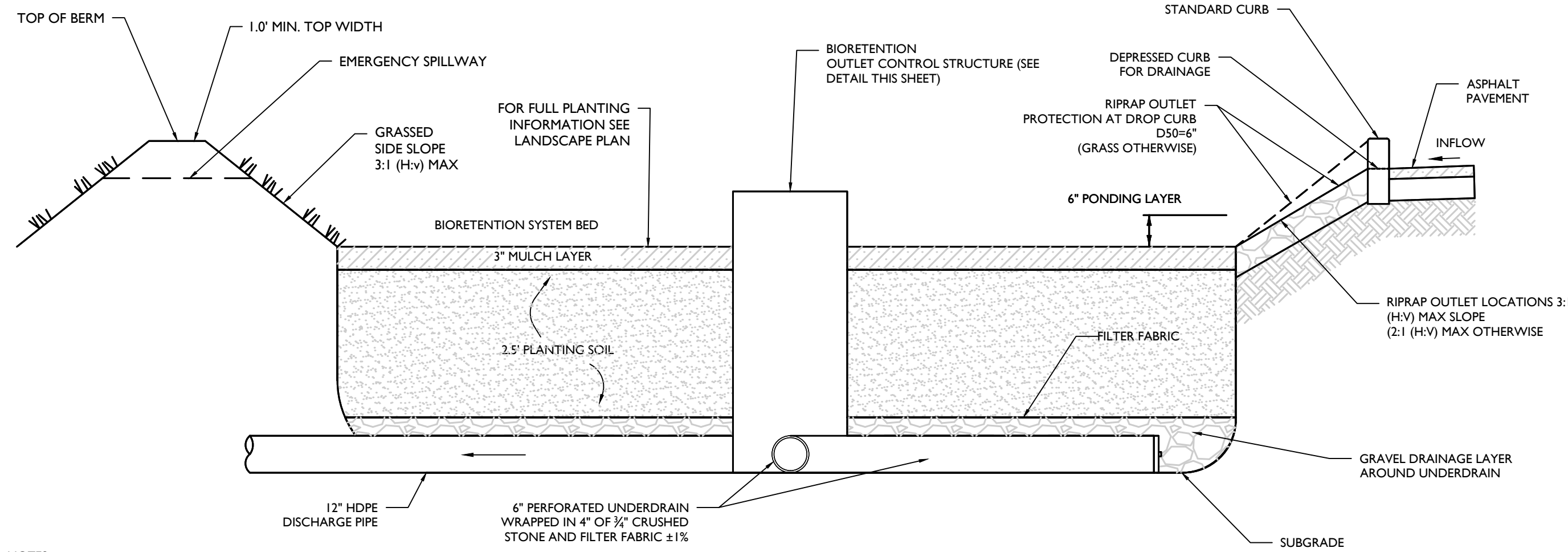
SHEET NUMBER:
12 of 16

BIORETENTION ELEVATIONS					
SYSTEM	OUTLET NAME	OUTLET SIZE	BED ELEVATION	TOP OF BERM ELEVATION	EMERGENCY SPILLWAY EL.
I-B	BIO-1B	18"	474.0	478.0	477.5
I-C	BIO-1C	18"	494.0	496.0	N/A
I-D	BIO-1D	18"	480.0	482.0	481.5
I-E	BIO-1E	12"	490.0	492.0	N/A
I-G	SPILLWAY	10" SPILLWAY	481.5	482.5	481.0

PLANTING SOIL NOTE:

THE PLANTING SOIL SHOULD BE A SANDY LOAM, LOAMY SAND, LOAM (USDA), OR A LOAM/SAND MIX (SHOULD CONTAIN A MINIMUM 35 TO 60% SAND, BY VOLUME). THE CLAY CONTENT FOR THESE SOILS SHOULD BE LESS THAN 25% BY VOLUME. SOILS SHOULD FALL WITHIN THE SM, OR ML CLASSIFICATIONS OF THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS). A PERMEABILITY OF AT LEAST 1.0 FEET PER DAY (0.5" / HR) IS REQUIRED (A CONSERVATIVE VALUE OF 0.5 FEET PER DAY IS USED FOR DESIGN). THE SOIL SHOULD BE FREE OF STONES, STUMPS, ROOTS, OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER, AND BRUSH OR SEED FROM NOXIOUS WEEDS. PLACEMENT OF THE PLANTING SOIL SHOULD BE IN LIFTS OF 12" TO 18", LOOSELY COMPACTED (TAMPED LIGHTLY WITH A DOZER OR BACKHOE BUCKET). THE SPECIFIC CHARACTERISTICS ARE AS FOLLOWS:

PARAMETER	VALUE
PH RANGE	5.2 TO 7.00
ORGANIC MATTER	1.5 TO 4.0%
MAGNESIUM	35 LBS. PER ACRE, MINIMUM
PHOSPHORUS (P ₂ O ₅)	75 LBS. PER ACRE, MINIMUM
POTASSIUM (K ₂ O)	85 LBS. PER ACRE, MINIMUM
SOLUBLE SALTS	500 ppm
CLAY	10 TO 25%
SILT	30 TO 55%
SAND	35 TO 60%



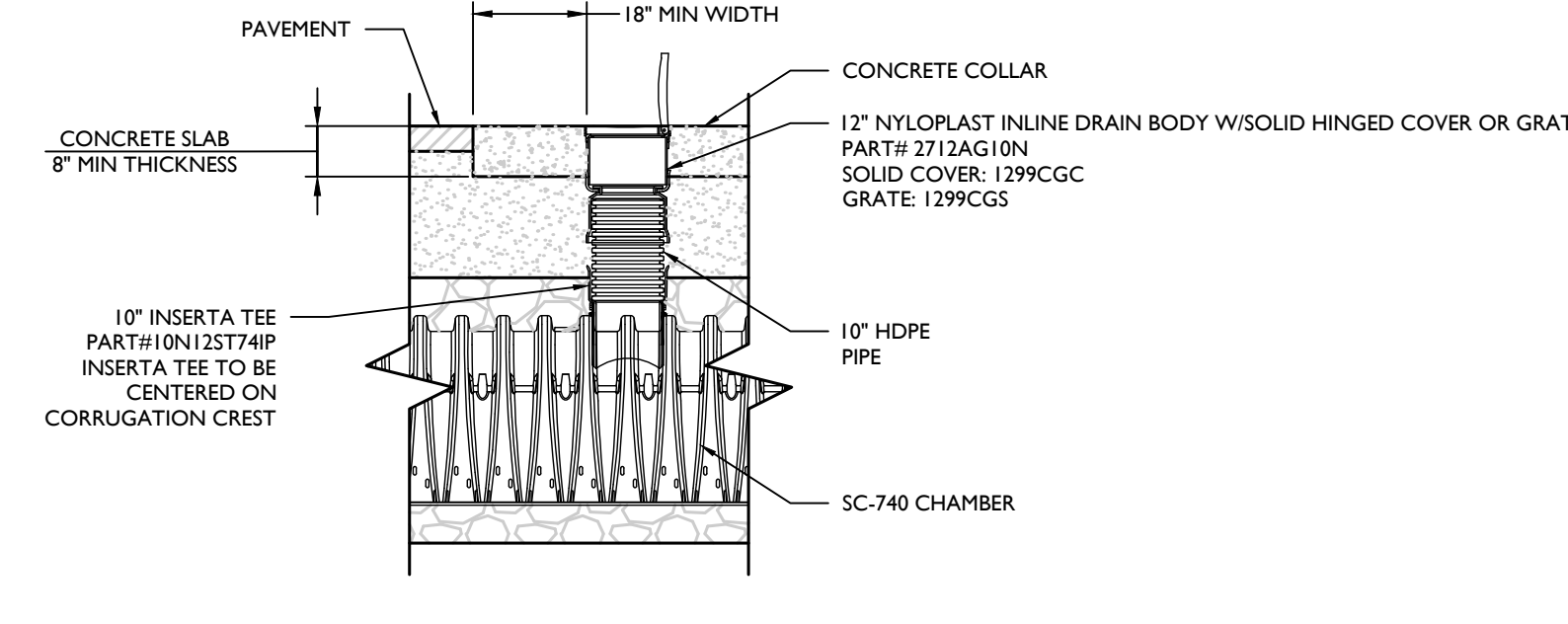
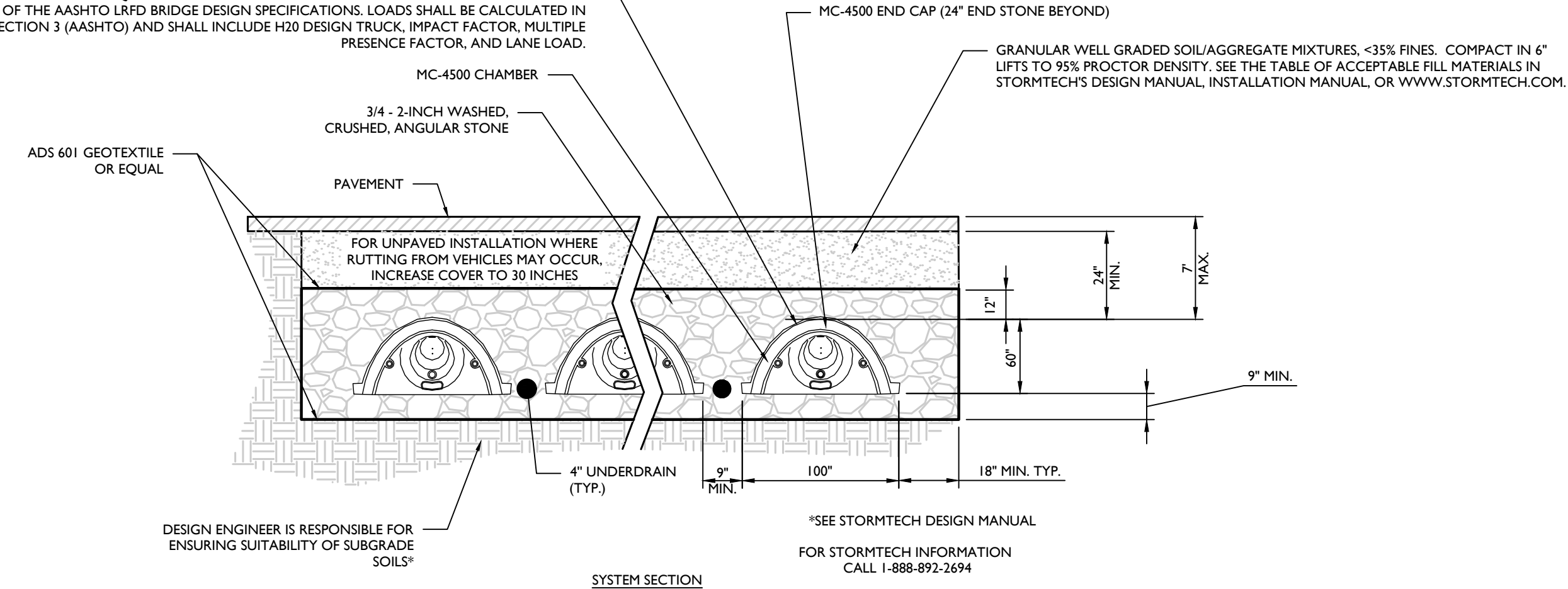
NOTES:

- SEE PLAN FOR DROP CURB LOCATIONS AND BIORETENTION AREA CONFIGURATION.
- PLANTING SOIL TO BE IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOUND WITHIN THE PROJECT SWPPP.
- CONTRACTOR MUST PROVIDE SUBMITTAL OF PROPOSED BIORETENTION SOIL FOR APPROVAL.

BIORETENTION SYSTEM CROSS SECTION DETAIL

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CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND SAFETY FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. LOADS SHALL BE CALCULATED IN ACCORDANCE WITH SECTION 3 (AASHTO) AND SHALL INCLUDE H20 DESIGN TRUCK, IMPACT FACTOR, MULTIPLE PRESENCE FACTOR, AND LANE LOAD.



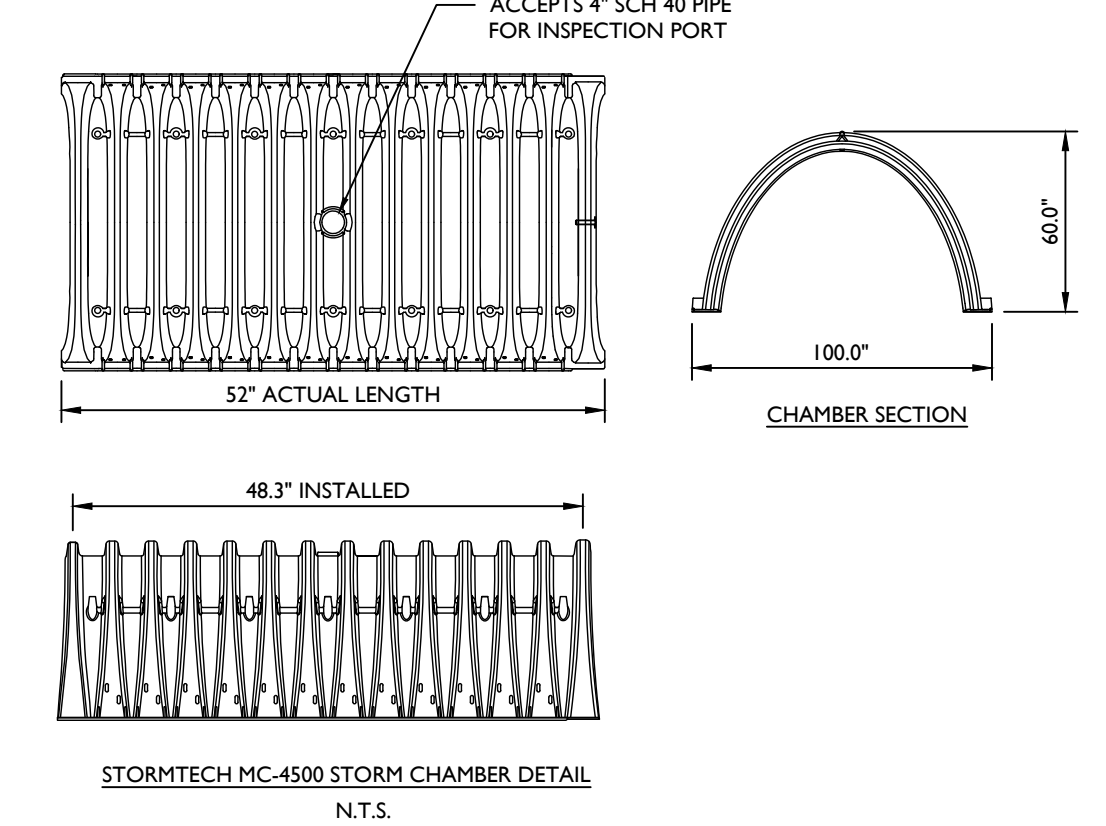
STORMTECH STORM CHAMBER INSPECTION PORT DETAIL

STORMTECH NOTES:

- CHAMBERS SHALL BE STORMTECH MC-4500 OR APPROVED EQUAL.
- CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- ONLY CHAMBERS THAT ARE APPROVED BY THE ENGINEER WILL BE ALLOWED. THE CONTRACTOR SHALL SUBMIT (3 SETS) OF THE FOLLOWING TO THE ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE.
 - A STRUCTURAL EVALUATION BY A REGISTERED STRUCTURAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET.
 - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL CROSS SECTION IS BASED.
- THE INSTALLATION OF CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS.
- THE STONE USED FOR FILLING THE SUBSURFACE SYSTEM MUST BE CLEAN WASHED STONE FREE OF ALL SEDIMENT, FINES, AND DUST. THE CONTRACTOR MAY BE REQUIRED TO WASH THE STONE ON SITE UNTIL IT IS CLEAN TO THE TOUCH LEAVING NO RESIDUE BEHIND PRIOR TO PLACEMENT IN THE SYSTEM FOOTPRINT.
- THE PROPOSED SUBSURFACE STORMWATER SYSTEM BOTTOM MUST BE PROTECTED FROM STORM RUNOFF AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE INFILTRATION CAPACITY OF THE VIRGIN SOIL IS NOT COMPROMISED.
- VEHICLE TRAFFIC MUST AVOID THE CHAMBER FOOTPRINT DURING CONSTRUCTION.
- CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW & APPROVAL.
- END STONE TO BE 24" MIN. BEYOND END OF CHAMBER CAPS WITH 18" MIN. SIDE STONE TO PROVIDE MIN. 2.215 SF BASAL AREA REQUIRED PER SWPPP.

STORMTECH SUBSURFACE DETAIL

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SHEET TITLE: STORMWATER DETAILS			
SHEET NUMBER: 13 of 16			

TOWN OF WAWAYANDA
PLANNING BOARD

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WATER NOTES:

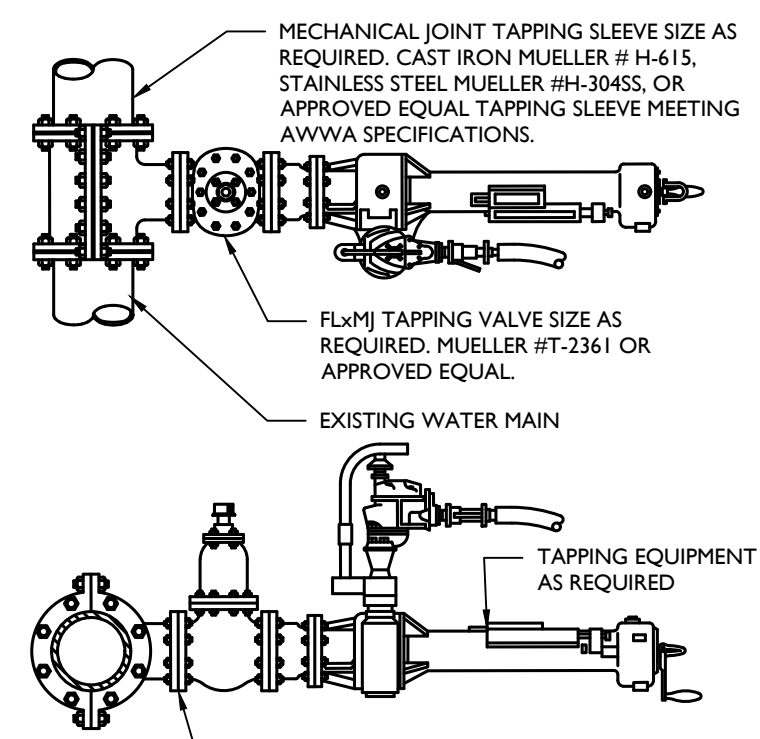
- ALL METHODS, MATERIALS, FITTINGS, DEVICES, DIMENSIONAL REQUIREMENTS AND PROCEDURES NECESSARY TO COMPLETE THE WORK SHOWN HEREON SHALL MEET THE APPROPRIATE CURRENT AWWA SPECIFICATIONS IN EFFECT AS WELL AS ALL REQUIREMENTS DEEMED APPLICABLE BY THE MUNICIPALITY OR ANY OTHER GOVERNMENTAL BODY HAVING JURISDICTION 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 DESCRIBED 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-SEATED 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 MECHANICALLY RESTRAINED 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 ALL 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 RETEST SAME. THIS SHALL BE REPEATED AS MANY TIMES AS MAY BE REQUIRED TO DEMONSTRATE A TIGHT LINE TO THE SATISFACTION OF THE TOWN & PROJECT ENGINEER. THE NEW WATER MAIN AND APPURTENANCES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C-600. RESULTS OF TESTS ARE TO BE SUBMITTED AND ACCEPTED BY THE MUNICIPALITY & PROJECT ENGINEER.
- 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, PROJECT ENGINEER, 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) BACTERIOLOGICAL TESTS TAKEN TWENTY-FOUR (24) HOURS APART ARE REQUIRED. RESULTS OF TESTS ARE TO BE SUBMITTED AND ACCEPTED BY THE MUNICIPALITY & PROJECT ENGINEER. DISINFECTION PROCEDURE, FEED LOCATIONS, AND SAMPLE LOCATIONS MUST BE REVIEWED AND APPROVED BY THE MUNICIPALITY & PROJECT ENGINEER PRIOR TO TESTING. 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. THE TABLET METHOD FOR INTRODUCING CHLORINE TO THE SYSTEM SHALL NOT BE PERMITTED.

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 HR APART, SHALL BE COLLECTED FROM THE NEW MAIN. AT LEAST ONE SET OF SAMPLES SHALL BE COLLECTED FROM EVERY 1,000 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 COLIFORM 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 RESULTS 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 BACTERIOLOGIC WATER QUALITY IN THE DISTRIBUTION SYSTEM.

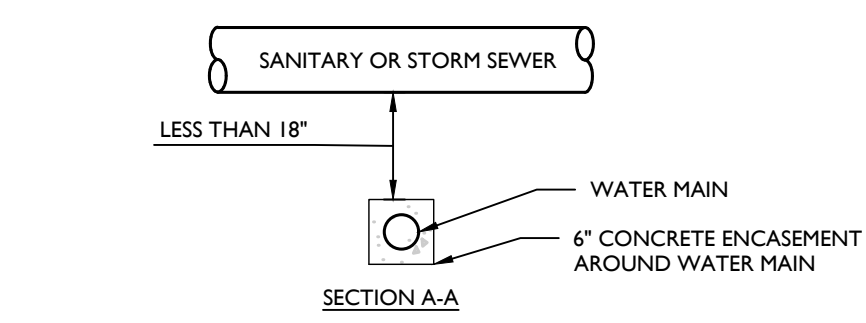
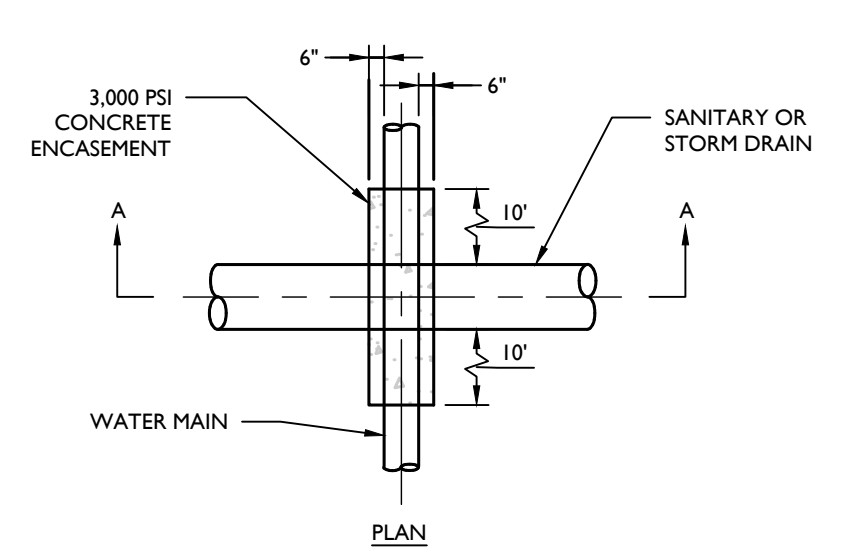
- ALL OTHER REQUIREMENTS OF AWWA C651, LATEST REVISION, SHALL BE OBSERVED.
- WATER SERVICE CROSSING SEWER OR STORM SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER OR STORM. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER OR STORM AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER MAY BE REQUIRED.
- WATER SERVICE SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER MAIN OR SERVICE.
- WATER TIGHT PLUGS ARE TO BE INSTALLED IN THE ENDS OF PIPES WHEN WORK IS NOT IN PROGRESS.
- LEAKAGE AND HYDROSTATIC PRESSURE TESTING SHALL BE PERFORMED AT 1.5 TIMES THE WORKING PRESSURE OR 150 PSI, WHICHEVER IS GREATER.
- THE MAXIMUM DEFLECTION ALLOWED AT PIPE JOINTS SHALL BE LIMITED TO 80% OF THAT ALLOWED BY AWWA OR IN ACCORDANCE WITH THE MUNICIPALITY. FOR AWWA ALLOWABLE JOINT DEFLECTIONS SEE LATEST REVISION OF AWWA SPECIFICATION C600.
- CONSTRUCTION MUST CONFORM TO ALL ORDINANCES.
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING WATER AND OTHER UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR TO CALL UNDERGROUND MARK-OUT PRIOR TO COMMENCEMENT OF CONSTRUCTION AT 1-800-962-7962 FOR COMPLETE UTILITIES MARK-OUT.
- CONTRACTOR TO CONTACT WATER DEPARTMENT AT LEAST 2 DAYS PRIOR TO CONSTRUCTION.
- ALL IMPROVEMENTS SHALL BE INSPECTED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND CERTIFICATION SHALL BE PROVIDED TO THE MUNICIPALITY THAT THE SUBJECT IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS.
- CONTRACTOR TO NOTIFY ENGINEER OF ANY DEVIATION FROM THE HORIZONTAL OR VERTICAL ALIGNMENTS WITH REGARDS TO EXISTING UTILITIES.
- A CERTIFIED AS BUILT MAP OF THE WATER SYSTEM IMPROVEMENTS SHALL BE PROVIDED TO THE MUNICIPALITY'S WATER DEPARTMENT BY A LICENSED DESIGN PROFESSIONAL.



- NOTES:**
- WET TAP VALVE CAN BE INSTALLED IN EITHER VERTICAL OR HORIZONTAL POSITION.
 - CONTRACTOR SHALL VERIFY DEPTH OF BURY, MATERIAL DIAMETER (O.D.) AND OPERATING PRESSURE OF EXISTING WATER MAIN PRIOR TO ORDERING OF WET TAP UNIT.

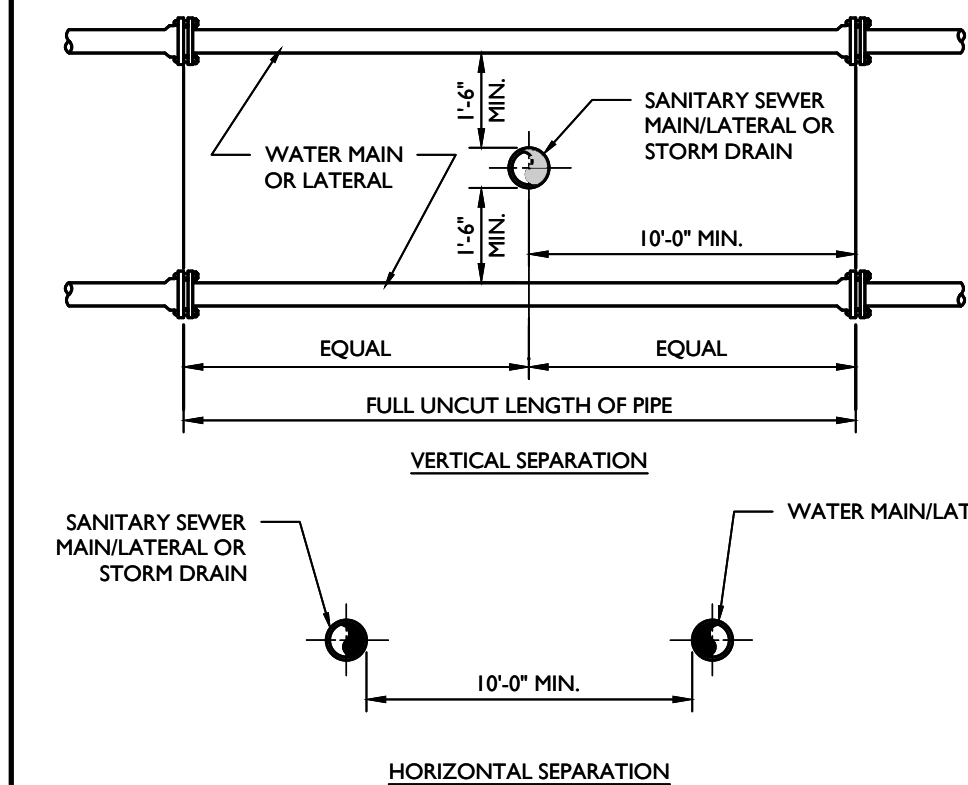
WET TAP DETAIL

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WATER MAIN ENCASEMENT DETAIL

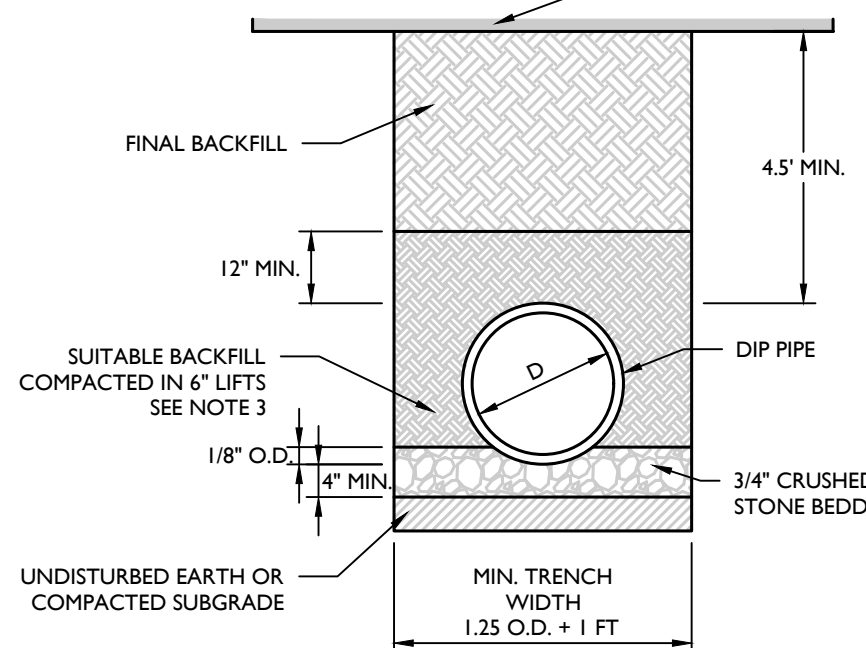
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- NOTES:**
- NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE ENGINEER.

SANITARY/STORM SEWER-WATER MAIN SEPARATION DETAIL

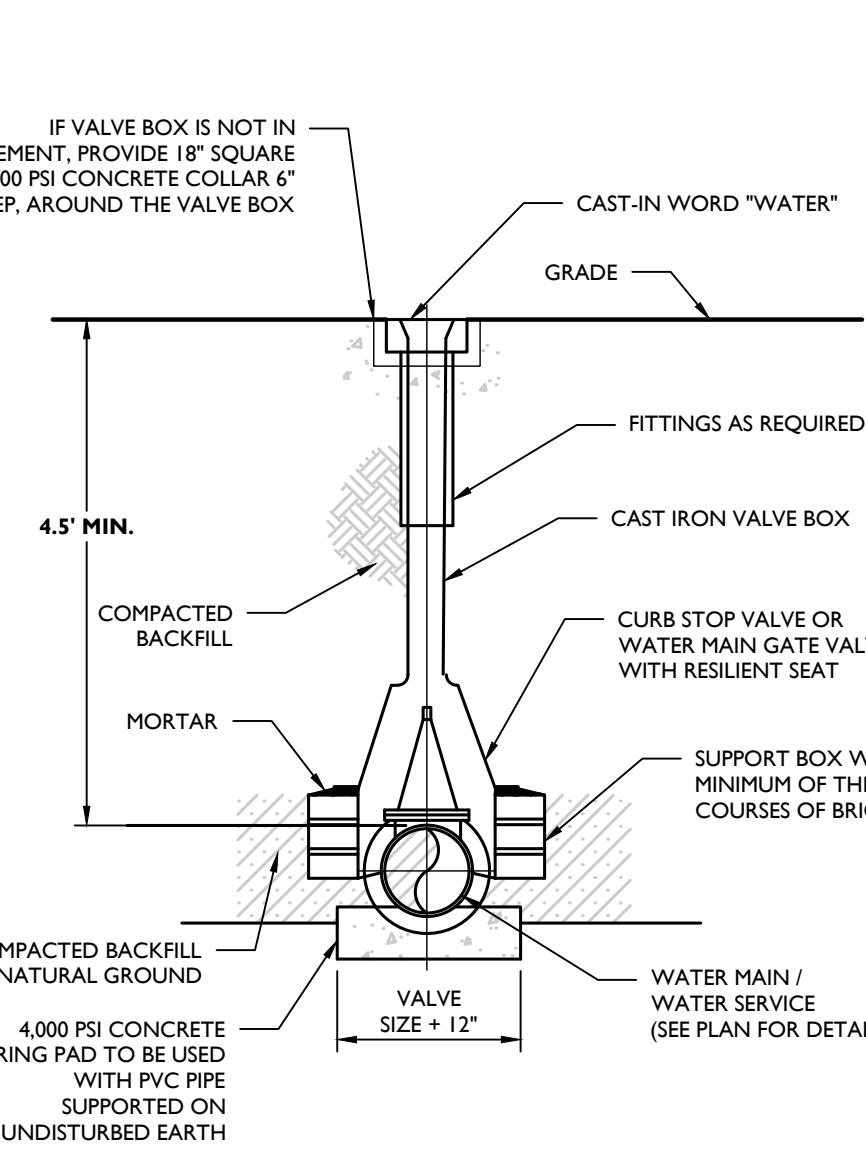
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- NOTES:**
- ALL PIPE SYSTEMS AND BACKFILL SHALL BE INSTALLED IN ACCORDANCE WITH ANSIAWWA C600.
 - WATER MAIN PIPE SHALL BE CEMENT LINED DUCTILE IRON PIPE (DIP) PRESSURE CLASS 150, THICKNESS CLASS 52 WITH ASPHALTIC EPOXY TYPE COATING, INSTALLED WITH THREE (3) BRONZE WEDGES PER JOINT FOR CONDUCTIVITY.
 - SUITABLE BACKFILL MATERIAL SHALL BE SAND, WELL GRADED GRAVEL < 2\"/>

DIP WATER PIPE BEDDING DETAIL

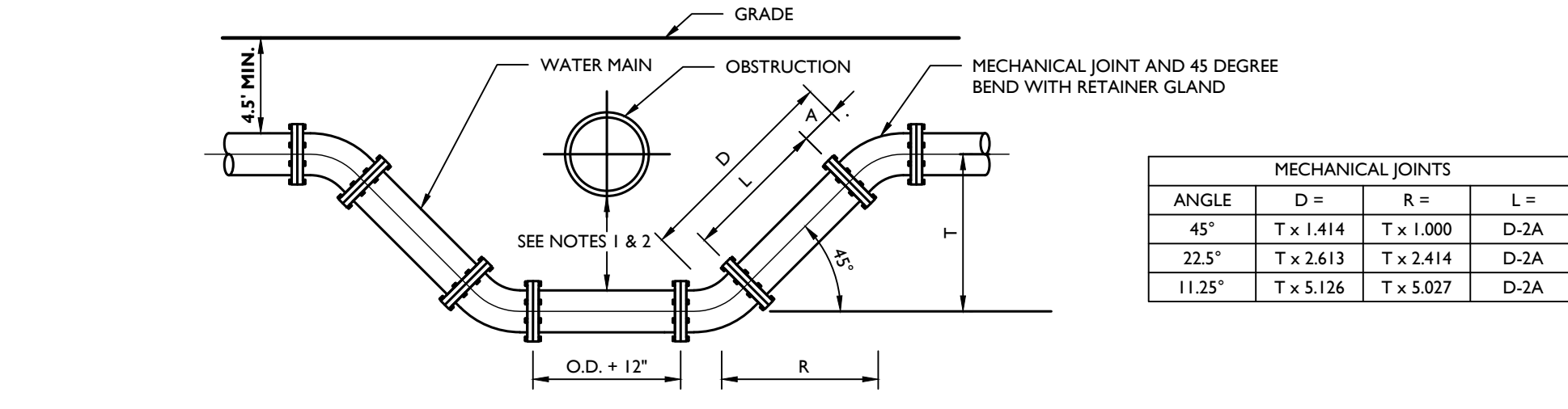
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- NOTES:**
- VALVE BOX SHOULD HAVE EXTENSION IF WATER MAIN OR SERVICE IS PLACED DEEPER THAN 5 FEET.
 - VALVE BOX SHALL BE MUELLER SLUPEXTENSION TYPE WITH ARCH PATTERN BASE, OR APPROVED EQUAL.
 - VALVES TO BE RESILIENT-SEATED GATE VALVES CONFORMING TO THE LATEST EDITION OF AWWA C509 STANDARD SPECIFICATIONS, MODEL MUELLER #2360 OR APPROVED EQUAL.

WATER VALVE BOX DETAIL

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- NOTES:**
- WATER MAIN MAY CROSS ABOVE OBSTRUCTION IF 4.5" 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 MECHANICAL JOINT.
 - OFFSETS MAY BE SUBSTITUTED FOR A "T" OF UP TO 24" IF APPROVED BY THE ENGINEER.
 - THRUST RESTRAINT SHALL BE PROVIDED AT ALL BENDS OR OTHER POINTS OF PIPE DIRECTION CHANGE.

WATER CROSSING UNDER UTILITY DETAIL

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PIPE SIZE INCHES	NUMBER AND SIZE OF RODS REQUIRED AND PIPE LENGTH IN FEET TO BE RESTRAINED								
	90° TEE OR DEAD END PLUG		45° BEND		22½° BEND				
No.	SIZE	L ²	No.	SIZE	L ²	No.	SIZE	L ²	
4	2	¾"	30'	2	¾"	10'	2	¾"	5'
6	2	¾"	40'	2	¾"	10'	2	¾"	5'
8	4 or 2	¾" or 1"	50'	2	¾"	15'	2	¾"	5'
10	4 or 2	¾" or 1"	60'	2	¾"	20'	2	¾"	5'
12	4	¾"	70'	2	¾"	20'	2	¾"	5'
14	4	1"	80'	2	¾"	25'	2	¾"	5'
16	4	1"	80'	2	¾"	25'	2	¾"	5'

- 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 3'-6" OF COVER. THEREFORE THE CALCULATION IS CONSERVATIVE FOR THE PROPOSED MIN. 4'-6" COVER. TABLE IS 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

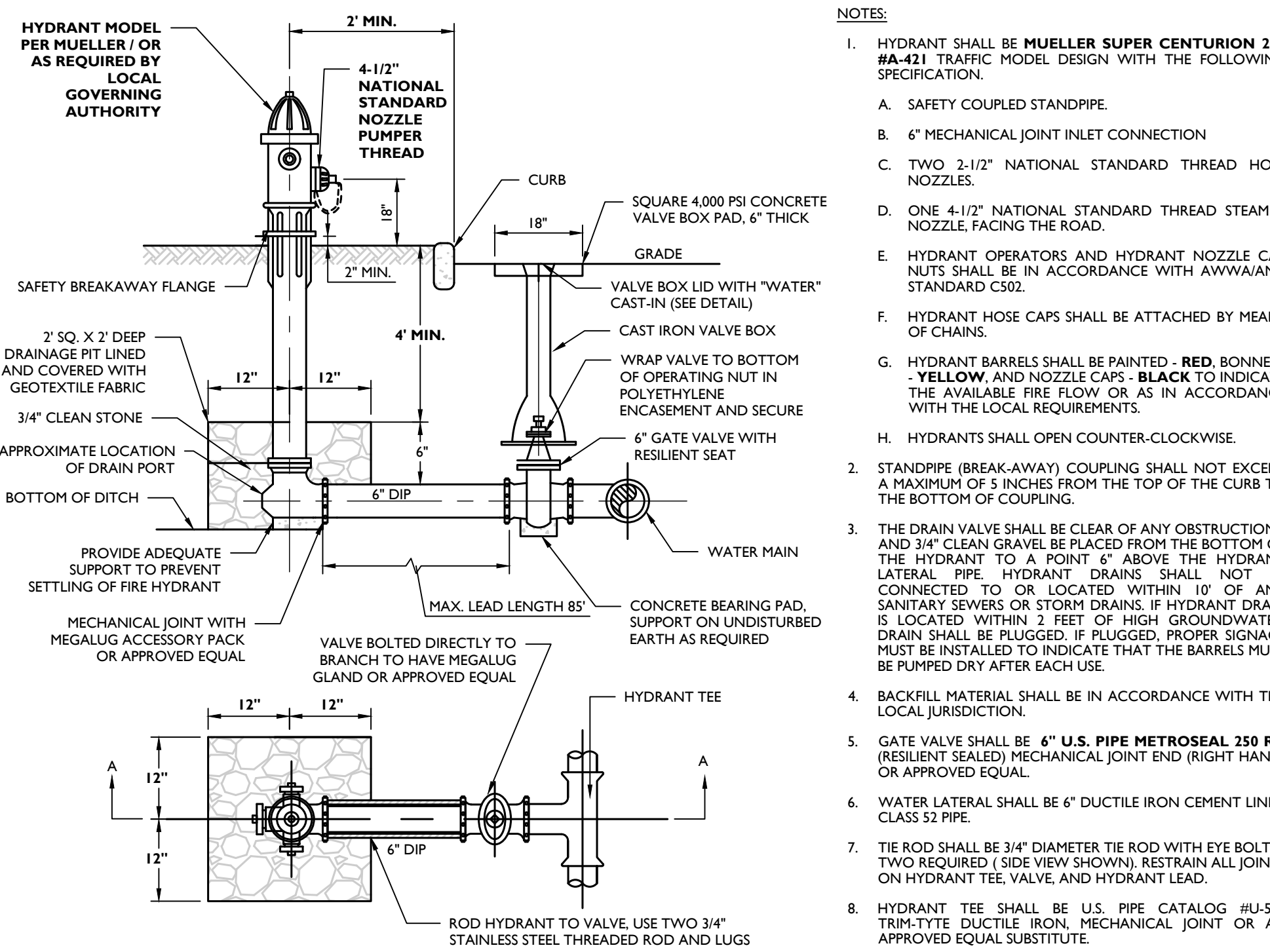
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LIST OF STANDARD WATER SUPPLY MATERIALS

ANY EXCEPTIONS TO THE MATERIALS LISTED BELOW SHALL BE APPROVED IN WRITING BY THE ENGINEER.

HYDRANTS	MUELLER SUPER CENTURION 250 #A-421, 2 HOSE NOZZLES AND 1 PUMPER NOZZLE
VALVES	MUELLER TYPE A-2630 RESILIENT WEDGE GATE VALVES, NRS-AWWA C509
VALVE BOXES	CAST IRON, SLUPEXTENSION TYPE, ARCH PATTERN BASE, AND AT LEAST 5" IN DIAMETER
PIPE	CLASS 52 DUCTILE IRON PIPE CEMENT LINED & SEALED W/ MECHANICAL OR PUSH-ON JOINT CONNECTIONS
TAPPING SLEEVE	MUELLER #H-615, DUCTILE IRON CLASS 250 OR MUELLER #H-3045S STAINLESS STEEL
TAPPING VALVE	MUELLER #H-2361 CLASS 250
MECHANICAL JOINT RESTRAINTS	EBAA'S IRON MEGALUG SERIES 1100
FITTINGS	DUCTILE IRON MECHANICAL JOINT FITTINGS

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



- NOTES:**
- HYDRANT SHALL BE MUELLER SUPER CENTURION 250 #A-421 TRAFFIC MODEL DESIGN WITH THE FOLLOWING SPECIFICATION:
 - SAFETY COUPLED STANDPIPE.
 - MECHANICAL JOINT INLET CONNECTION.
 - TWO 2-1/2" NATIONAL STANDARD THREAD HOSE NOZZLES.
 - ONE 4-1/2" NATIONAL STANDARD THREAD STEAMER NOZZLE, FACING THE ROAD.
 - HYDRANT OPERATORS AND HYDRANT NOZZLE CAP NUTS SHALL BE IN ACCORDANCE WITH AWWA/ANSI STANDARD C502.
 - HYDRANT HOSE CAPS SHALL BE ATTACHED BY MEANS OF CHAINS.
 - HYDRANT BARRELS SHALL BE PAINTED - RED, BONNETS - YELLOW, AND NOZZLE CAPS - BLACK TO INDICATE THE AVAILABLE FIRE FLOW OR AS IN ACCORDANCE WITH THE LOCAL REQUIREMENTS.
 - HYDRANTS SHALL OPEN COUNTER-CLOCKWISE.
 - STANDPIPE (BREAK-AWAY) COUPLING SHALL NOT EXCEED A MAXIMUM OF 5 INCHES FROM THE TOP OF THE CURB TO THE BOTTOM OF COUPLING.
 - THE DRAIN VALVE SHALL BE CLEAR OF ANY OBSTRUCTIONS, AND 3/4" CLEAN GRAVEL BE PLACED FROM THE BOTTOM OF THE HYDRANT TO A POINT 6" ABOVE THE HYDRANT LATERAL PIPE. HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10' OF ANY SANITARY SEWERS OR STORM DRAINS. IF HYDRANT DRAIN IS LOCATED WITHIN 2 FEET OF HIGH GROUNDWATER, DRAIN SHALL BE PLUGGED. IF PLUGGED, PROPER SIGNAGE MUST BE INSTALLED TO INDICATE THAT THE BARRELS MUST BE PUMPED DRY AFTER EACH USE.
 - BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTION.
 - GATE VALVE SHALL BE 6" U.S. PIPE METROSEAL 250 RIS (RESILIENT SEALED) MECHANICAL JOINT END (RIGHT HAND) OR APPROVED EQUAL.
 - WATER LATERAL SHALL BE 6" DUCTILE IRON CEMENT LINED CLASS 52 PIPE.
 - THE ROD SHALL BE 3/4" DIAMETER TIE ROD WITH EYE BOLTS - TWO REQUIRED (SIDE VIEW SHOWN). RESTRAIN ALL JOINTS ON HYDRANT TEE, VALVE, AND HYDRANT LEAD.
 - HYDRANT TEE SHALL BE U.S. PIPE CATALOG #U-592 TRIM-TYTE DUCTILE IRON, MECHANICAL JOINT OR AN APPROVED EQUAL SUBSTITUTE.

FIRE HYDRANT (VALVE IN PAVEMENT) DETAIL

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TOWN OF WAWAYANDA PLANNING BOARD

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REV	DATE	DESCRIPTION
1	02/04/22	REVISED WETLAND IMPACT REDUCTION DETAILS FOR GEGS SUBMISSION.

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF ARTICLE 145, SECTION 7209, SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

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

PRELIMINARY SITE PLANS FOR DEWPOINT NORTH LLC

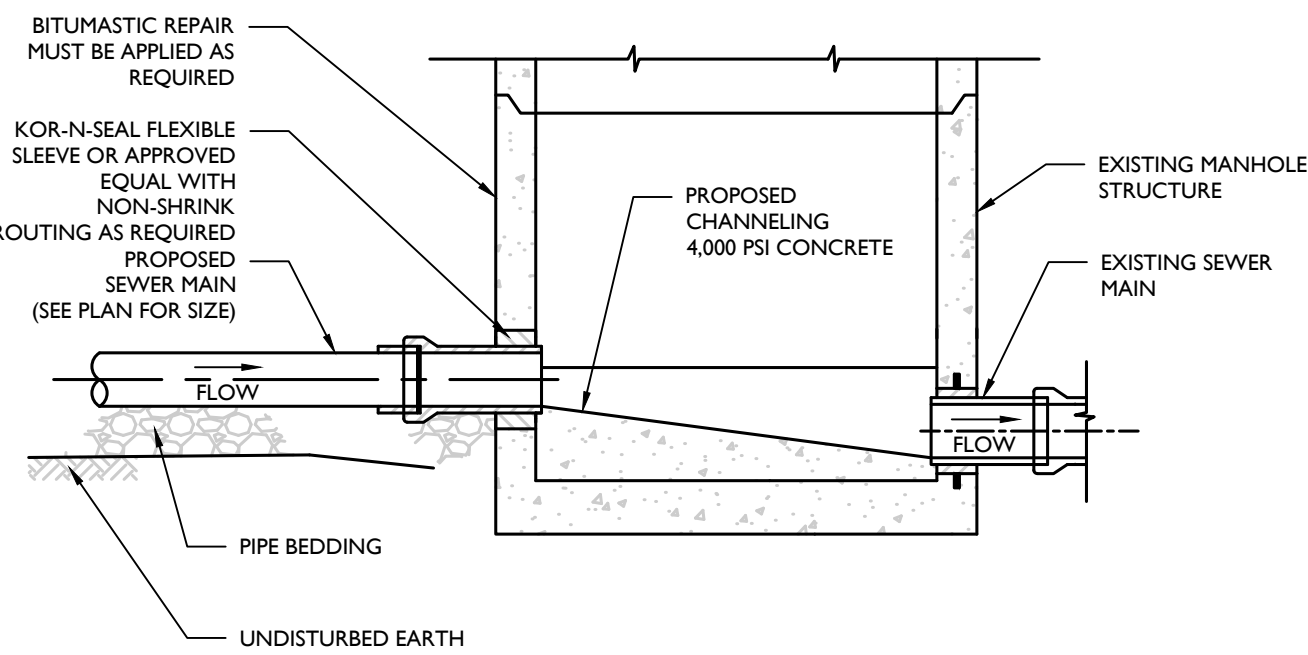
SECTION 4, BLOCK 1, LOT 50.2
TOWN OF WAWAYANDA ORANGE COUNTY NEW YORK STATE

Colliers 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 MASER CONSULTING ENGINEERING & LAND SURVEYING.

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	01/10/2022	MAS	CDR

WATER DETAILS

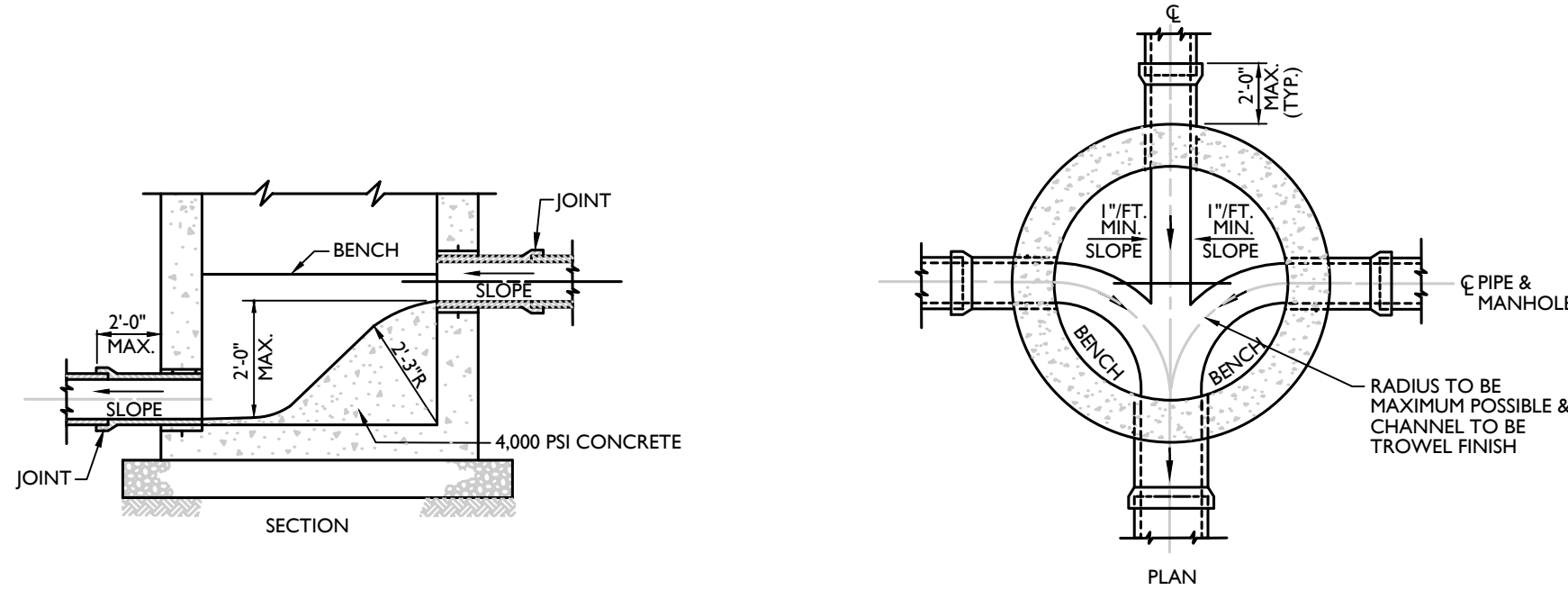
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



- NOTES:**
- CONSTRUCTION OF THE NEW SEWER MAIN SHALL NOT IMPEDE THE OPERATION OF THE EXISTING SEWER.
 - WHERE NEW PIPE IS TO BE CONNECTED INTO AN EXISTING MANHOLE, THE CONTRACTOR SHALL CORE DRILL ALL HOLES INTO MANHOLE AND SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY FOR CHANNEL AND BENCH RECONSTRUCTION TO CHANNEL FLOW INTO EXISTING SEWER.
 - PIPE SHALL BE SEALED USING KOR-N-SEAL MANHOLE ADAPTERS OR APPROVED EQUAL, AND NON-SHRINK GROUT.
 - EXISTING BENCH SHALL BE CHIPPED AND CUT AWAY TO ALLOW FOR NEW CHANNEL TO BE CONSTRUCTED AND TO PROVIDE GOOD, SOUND SURFACE FOR BONDING WITH NEW CONCRETE CHANNEL AND BENCH. REMOVE ALL LOOSE MATERIALS AND CLEAN INSIDE OF THE STRUCTURE.
 - THE CONCRETE USED TO CONSTRUCT BENCHES AND CHANNELS SHALL BE 4000 PSI CONCRETE APPLY EPOXY BONDING AGENT PRIOR TO POURING CONCRETE.
 - ANY DAMAGE TO THE EXISTING MANHOLE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR.

CONNECTION TO EXISTING MANHOLE DETAIL

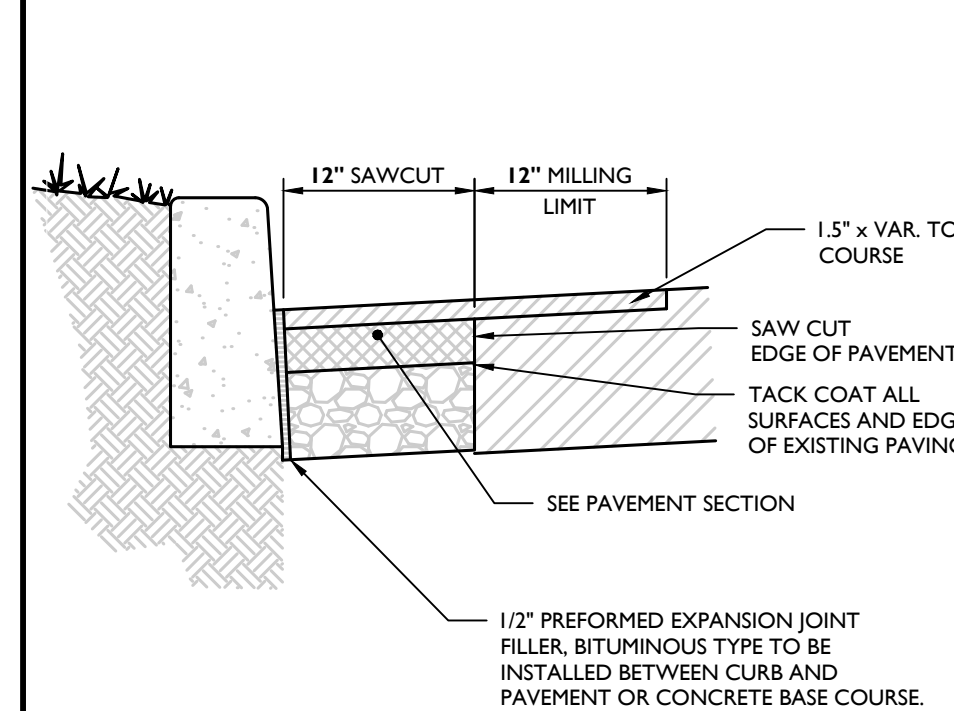
NOT TO SCALE



- NOTE:**
- MANHOLE CHUTE IS TO BE USED WHERE DIFFERENCE IN INVERT ELEVATIONS BETWEEN INCOMING PIPE AND OUTGOING PIPE IS LESS THAN 2'-0".
 - IF THE DIFFERENCE IS 2'-0" OR GREATER, THEN EXTERNAL DROP CONNECTION SHALL BE MADE. CHANNELING SHALL BE AS SHOWN ABOVE.

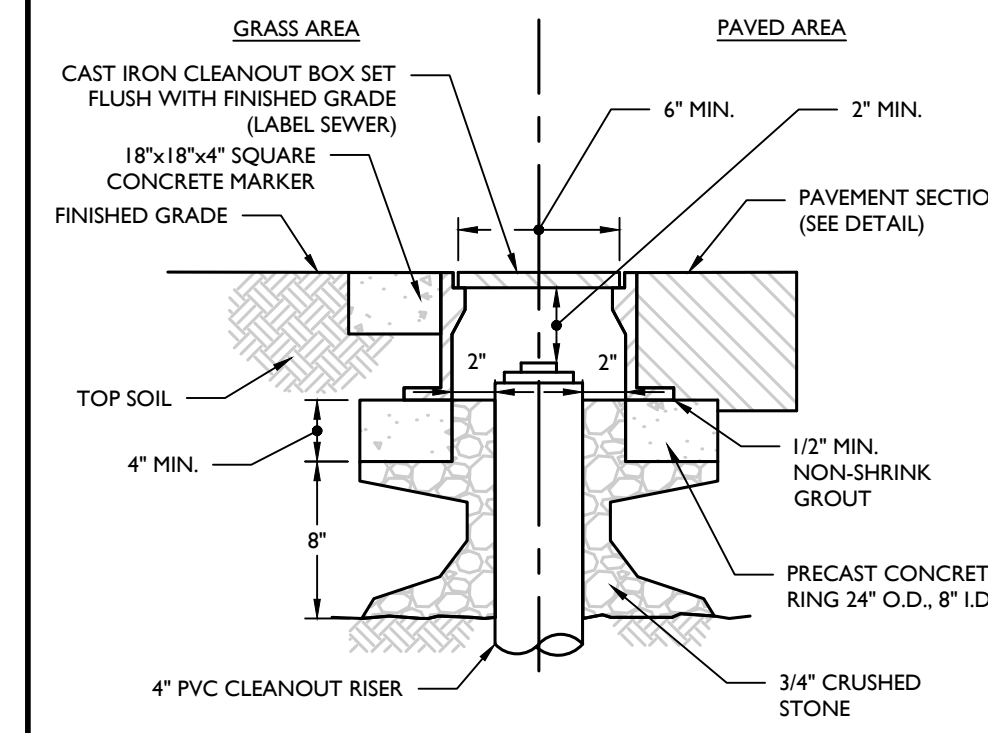
MANHOLE CHUTE DETAIL

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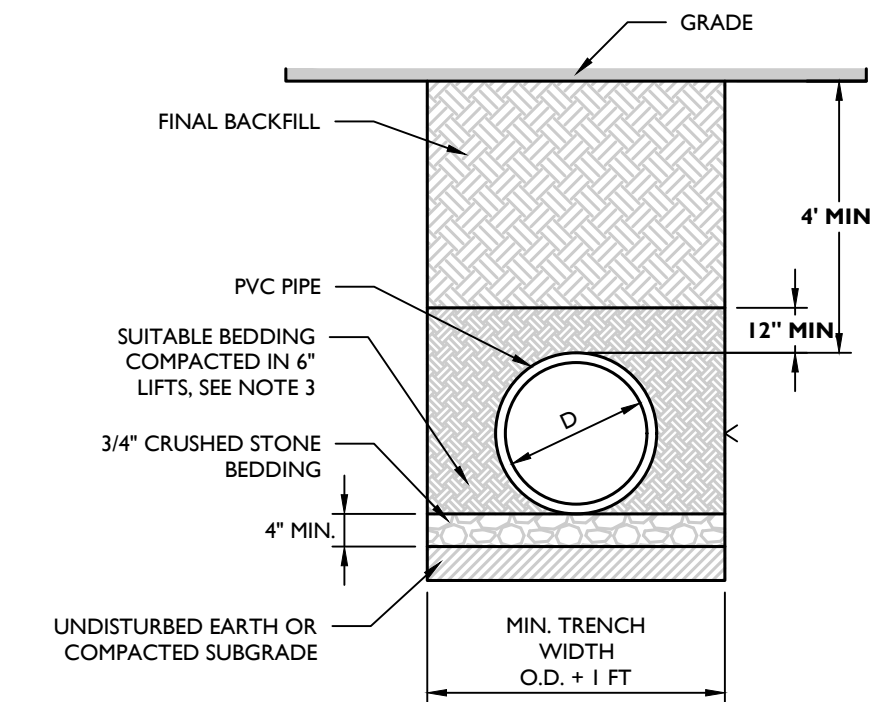
SAWCUT AND PAVEMENT RESTORATION DETAIL

NOT TO SCALE



CLEANOUT PROTECTION BOX DETAIL

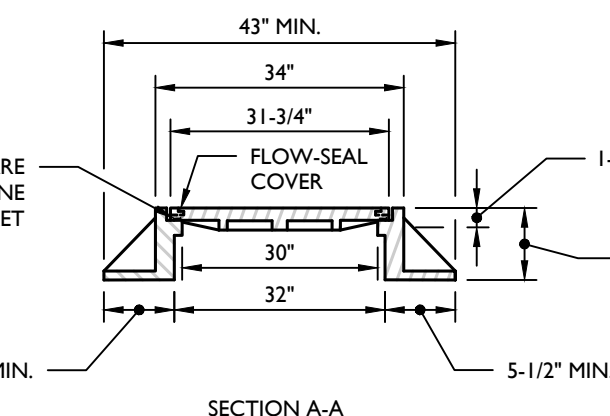
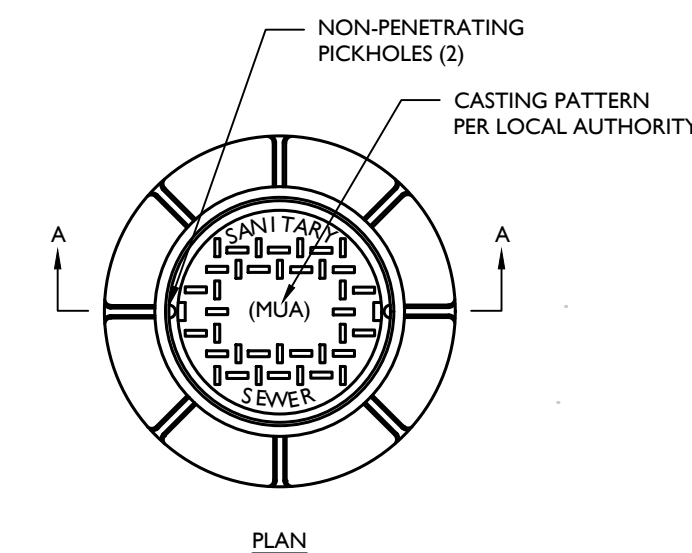
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- NOTES:**
- ALL PVC GRAVITY PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321.
 - GRAVITY SANITARY PIPE SHALL BE PVC SDR 35 PER ASTM D3034 OR AS REQUIRED BY THE GOVERNING AUTHORITY.
 - SUITABLE BEDDING MATERIAL SHALL BE COARSE SAND OR 3/4" CRUSHED STONE.
 - SUITABLE FINAL BACKFILL MATERIAL SHALL BE SITE SOILS, CLEAN FILL OR ITEM 4 STONE COMPACTED IN MAX. 9" LIFTS. BACKFILL MATERIAL WITHIN 2" OF THE PIPE MUST BE FREE AND CLEAR OF DEBRIS, FROZEN MATERIAL, LARGE CLOUDS OR STONES, ORGANIC MATTER, OR OTHER UNSUITABLE MATERIALS.
 - STONES LARGER THAN 2" FOUND IN THE TRENCH SHALL BE REMOVED FOR A DEPTH OF AT LEAST 4" BELOW THE PIPE.
 - FOR INSTALLATION IN PAVEMENT, REFER TO THE APPLICABLE PAVEMENT DETAIL TO ESTABLISH FINAL GRADE, BACKFILL REQUIREMENTS BEYOND THE DEPTH OF THE PAVEMENT DETAIL SHALL BE IN ACCORDANCE WITH THIS DETAIL.

PVC SANITARY PIPE BEDDING (GRAVITY) DETAIL

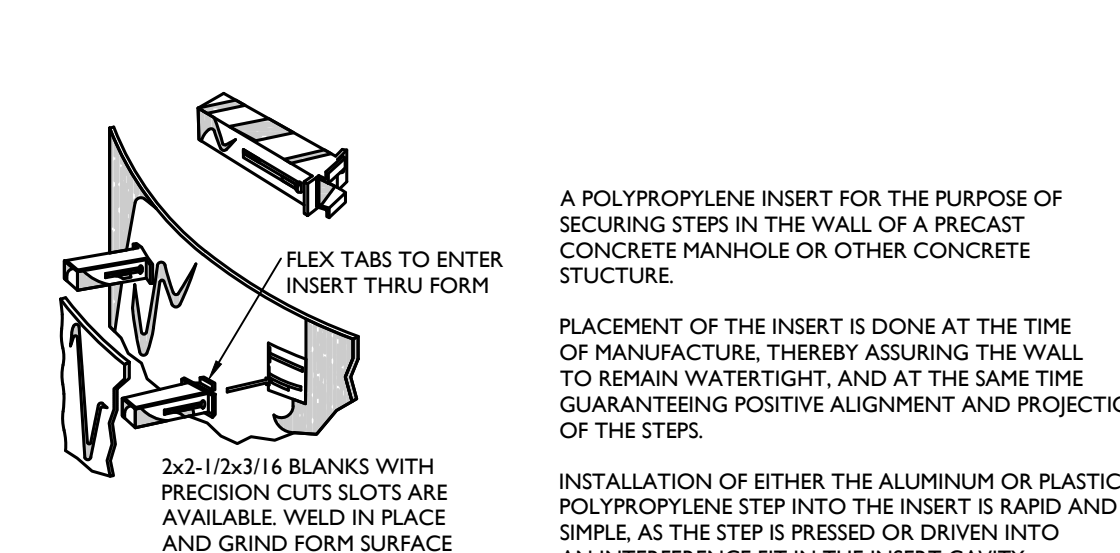
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- NOTES:**
- MANHOLE FRAME AND COVER SHALL BE CAMPBELL FOUNDRY PATTERN # 1012B WITH FLOW-SEAL COVER OR APPROVED EQUAL OR AS OTHERWISE REQUIRED BY JURISDICTIONAL AUTHORITY.
 - MANHOLE FRAME AND COVER TO BE HEAVY DUTY, CONFORMING TO ASTM SPECIFICATION A-48 CLASS 30-B WITH SHOP COAT OF ASPHALTIC PITCH.
 - IN EASEMENTS AND REMOTE AREAS, COVER LOCKING DEVICES OF BRONZE AND KEY SHALL BE PROVIDED.
 - WATERTIGHT MANHOLE FRAME AND COVER SHALL BE PATTERN # 6548 AS MANUFACTURED BY CAMPBELL FOUNDRY COMPANY OR APPROVED EQUAL.

SANITARY MANHOLE FRAME AND COVER DETAIL

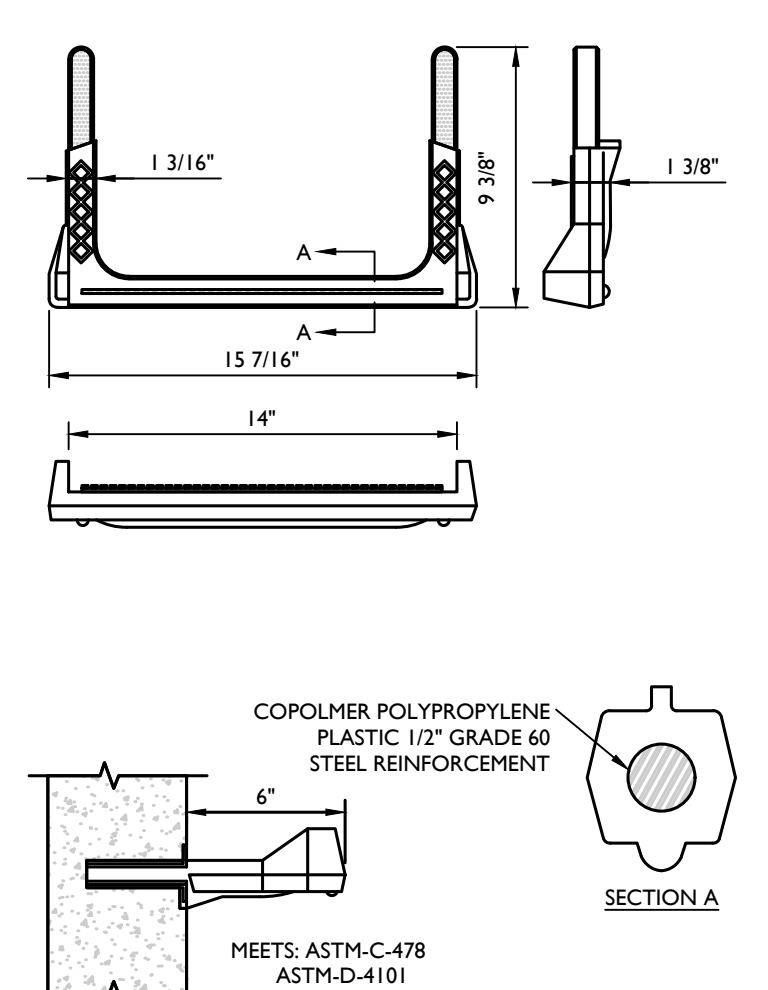
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- A POLYPROPYLENE INSERT FOR THE PURPOSE OF SECURING STEPS IN THE WALL OF A PRECAST CONCRETE MANHOLE OR OTHER CONCRETE STRUCTURE.
- INSTALLATION OF EITHER THE ALUMINUM OR PLASTIC POLYPROPYLENE STEP INTO THE INSERT IS RAPID AND SIMPLE, AS THE STEP IS PRESSED OR DRIVEN INTO AN INTERFERENCE FIT IN THE INSERT CAVITY.
- THE INSERT ALSO SERVES AS A PROTECTIVE SHIELD AGAINST DISSIMILAR MATERIAL REACTIONS, SUCH AS ELECTROLYSIS OF ALUMINUM AND CONCRETE.
- THE INSERT MEETS REQUIREMENTS OF A.S.T.M. C-478 SECTION 12 AND PERFORMANCE TEST PROCEDURES OF A.S.T.M. C-497.

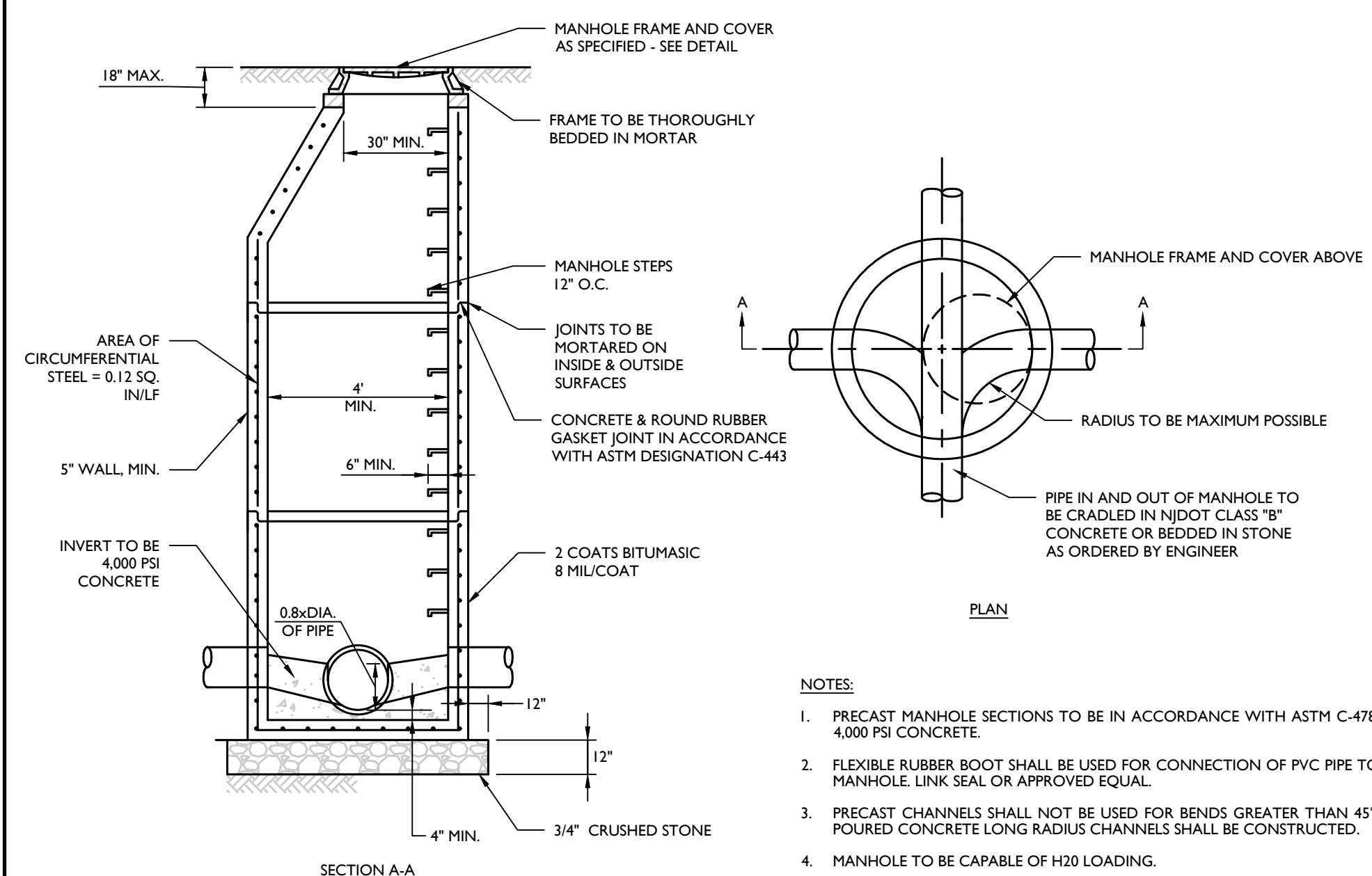
LADDER RUNG (COPOLYMER) DETAIL

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SANITARY SEWER MANHOLE FRAME INSTALLATION DETAIL

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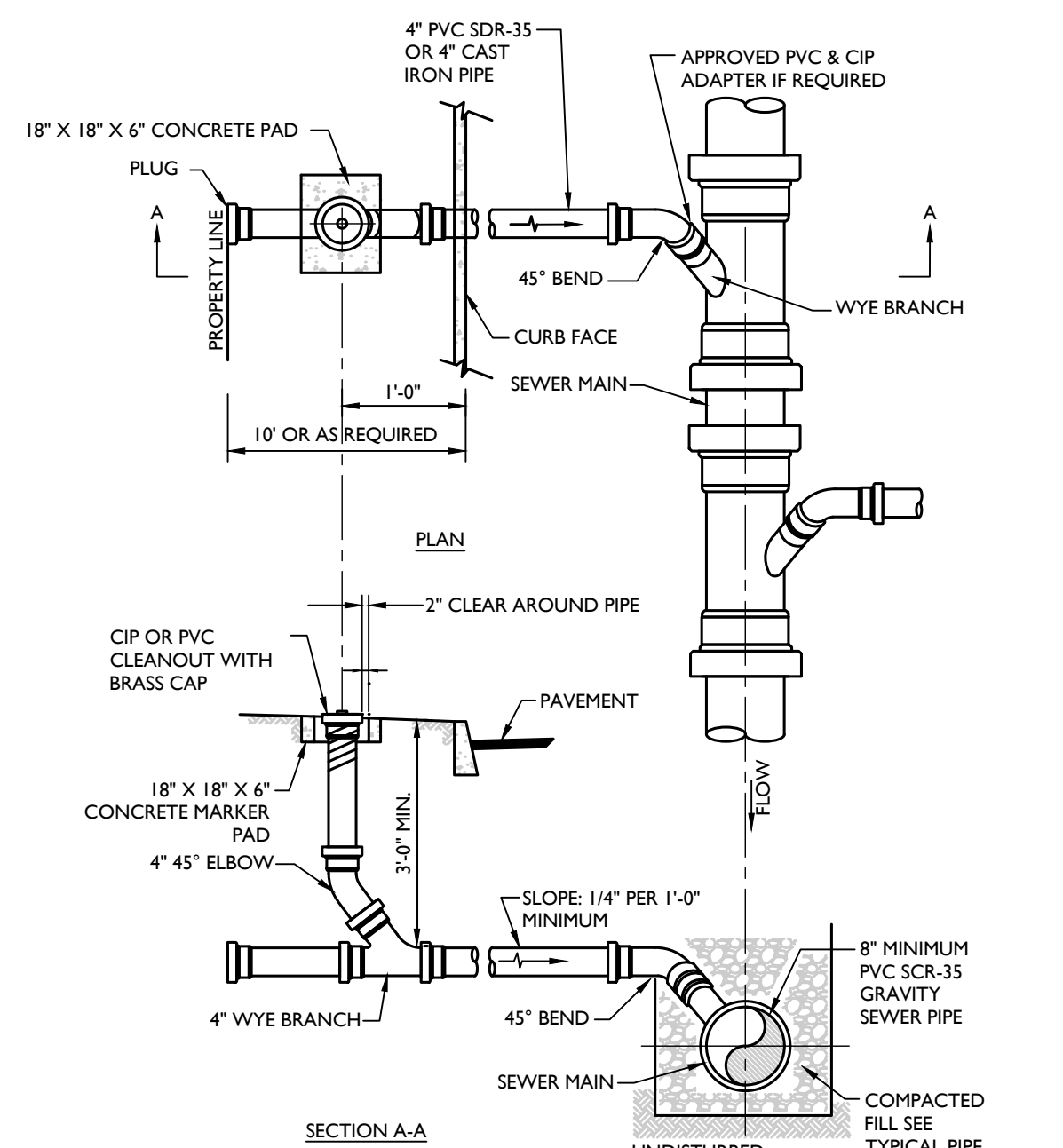


- NOTES:**
- PRECAST MANHOLE SECTIONS TO BE IN ACCORDANCE WITH ASTM C-478, 4000 PSI CONCRETE.
 - FLEXIBLE RUBBER BOOT SHALL BE USED FOR CONNECTION OF PVC PIPE TO MANHOLE. LINK SEAL OR APPROVED EQUAL.
 - PRECAST CHANNELS SHALL NOT BE USED FOR BENDS GREATER THAN 45°. POURED CONCRETE LONG RADIUS CHANNELS SHALL BE CONSTRUCTED.
 - MANHOLE TO BE CAPABLE OF H20 LOADING.

SANITARY PRECAST MANHOLE DETAIL

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SANITARY SEWER LATERAL & CLEANOUT DETAIL

07/01/19

TOWN OF WAWAYANDA PLANNING BOARD

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PRELIMINARY SITE PLANS
FOR
DEWPOINT NORTH LLC

SECTION 4, BLOCK 1 LOT 50.2
TOWN OF WAWAYANDA ORANGE COUNTY NEW YORK STATE

Colliers Engineering & Design
NEWBURGH 555 Hudson Valley Avenue Suite 101 New Windsor, NY 12553 Phone: 845.564.4495
COLLIERS ENGINEERING & DESIGN CT, P.C. DOING BUSINESS AS MASER CONSULTING ENGINEERS & ARCHITECTS

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	01/10/2022	MAS	CDR

PROJECT NUMBER:	DRAWING NAME:
20005912A	C-DT15-NRTH

SEWER DETAILS

SHEET NUMBER: **15** of **16**

REV	DATE	DRAWN BY	DESCRIPTION
1	02/08/22	CDR	REVISED WETLAND IMPACT REDUCTION & DETAILS FOR GIES SUBMISSION.

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF ARTICLE 145, SECTION 7309, SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Justin Eric Dates
NEW YORK REGISTERED LANDSCAPE ARCHITECT
LICENSE NUMBER: 001964-01
COLLIERS ENGINEERING & DESIGN CT, P.C.

PRELIMINARY SITE PLANS

FOR
DEWPOINT NORTH
LLC

SECTION 4,
BLOCK 1
LOT 50.2

TOWN OF WAWAYANDA
ORANGE COUNTY
NEW YORK STATE

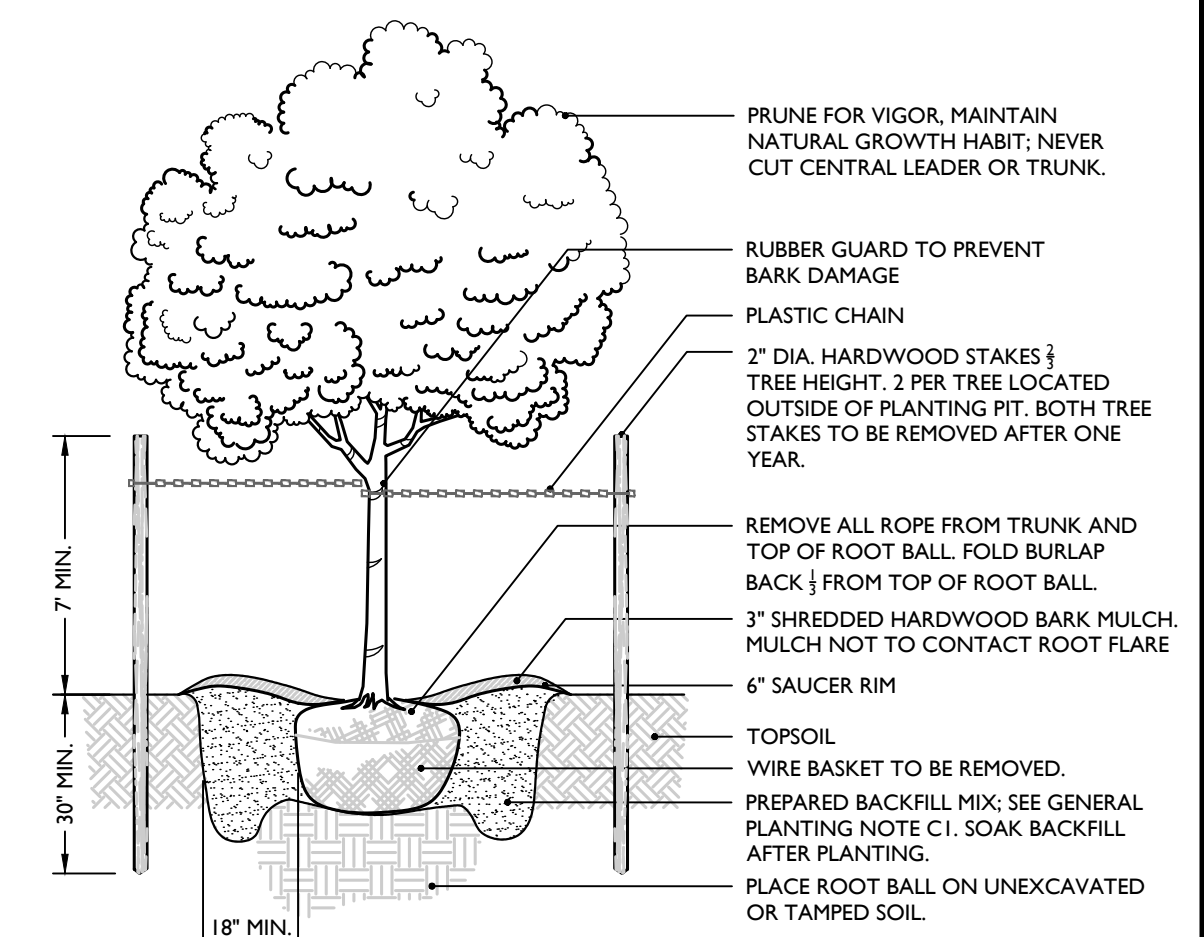
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ENGINEERING & LAND SURVEYING

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	01/10/2022	MAS	CDR

PROJECT NUMBER:	DRAWING NAME:
20006912A	C-DTLS-NRTH

SHEET TITLE:
LANDSCAPE DETAILS

SHEET NUMBER:
16 of 16



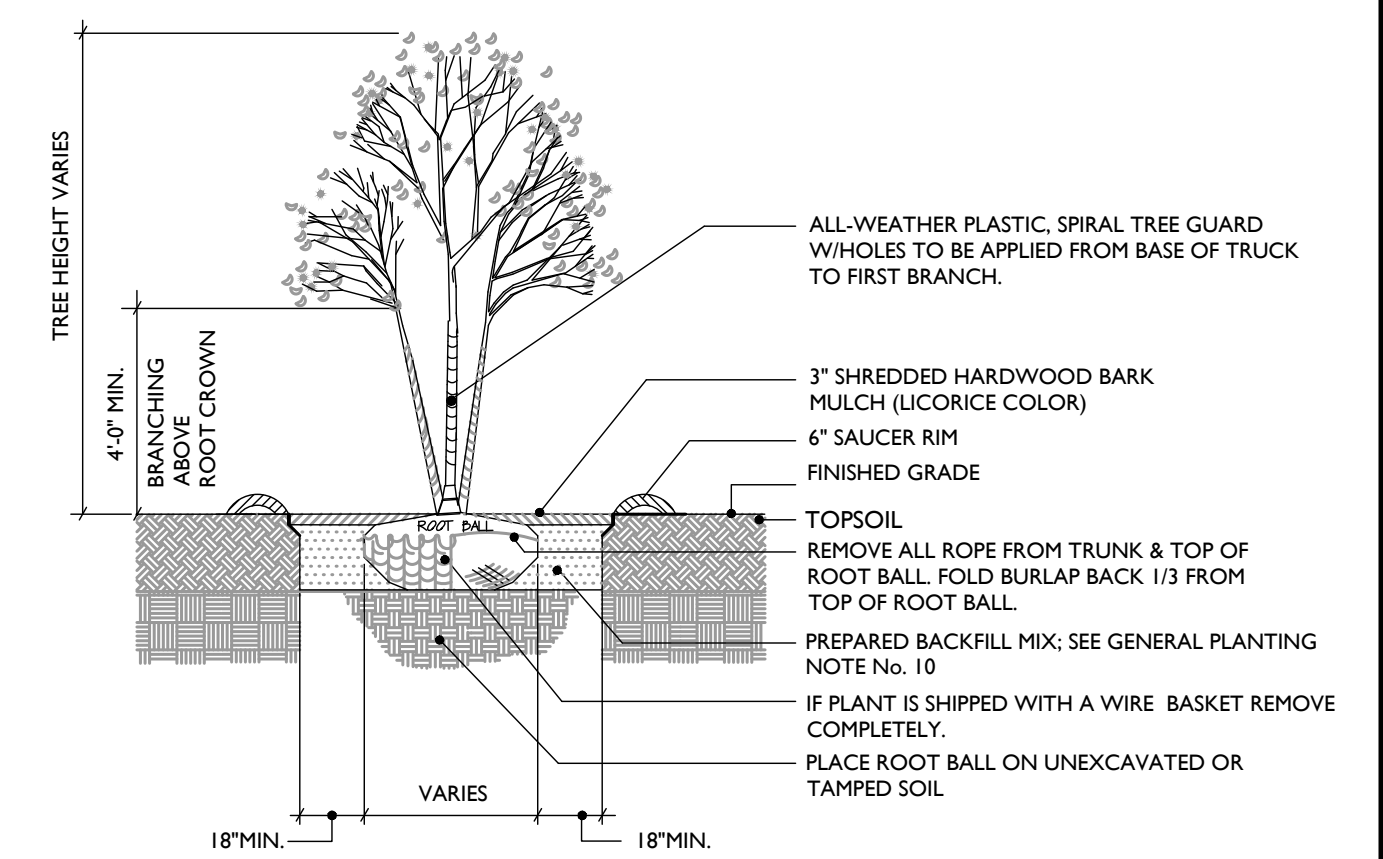
NOTES:

- NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
- PLANTING DEPTH SHALL BE THE SAME OR HIGHER AS GROWN IN NURSERY.

TREE PLANTING DETAIL

NOT TO SCALE

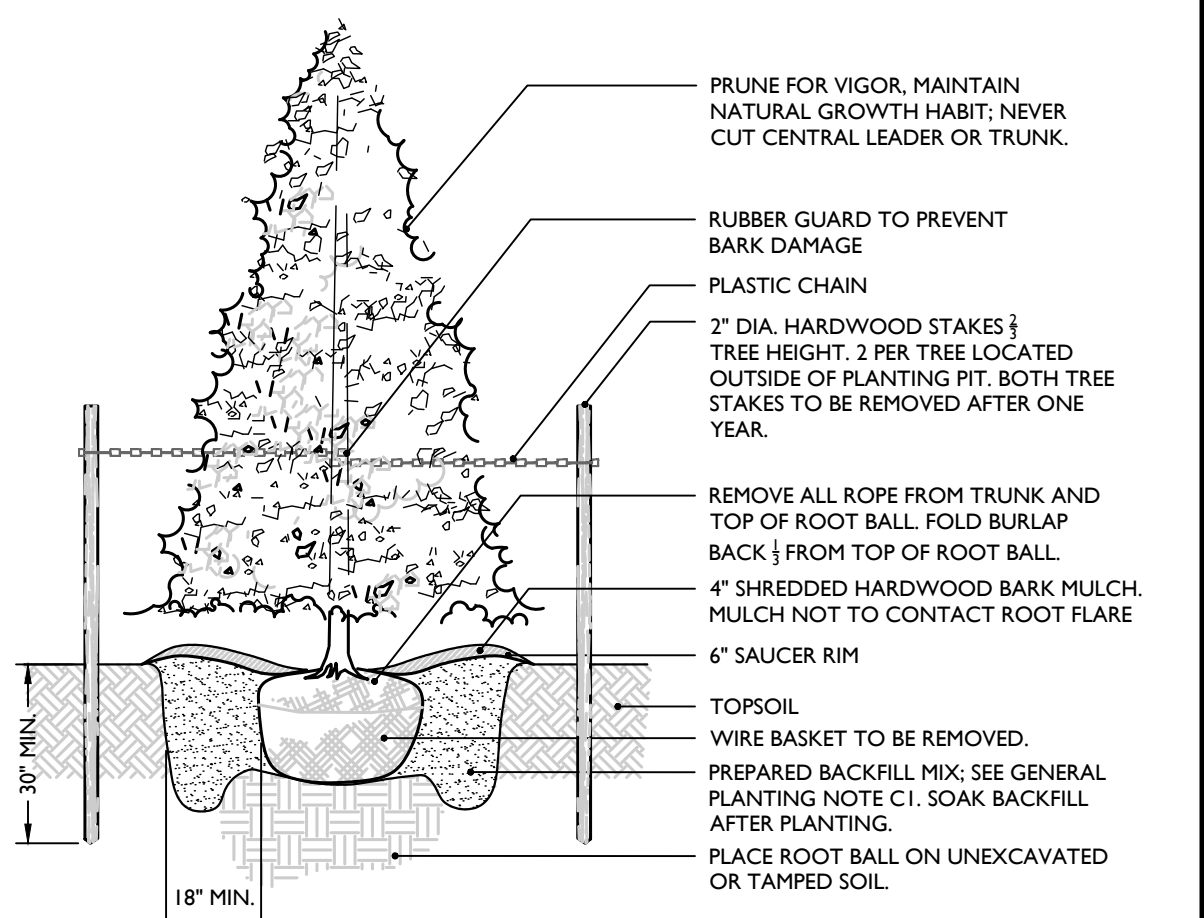
07/01/19



MULTI-STEM TREE PLANTING DETAIL

NOT TO SCALE

07/01/19



NOTES:

- NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
- PLANTING DEPTH SHALL BE THE SAME OR HIGHER AS GROWN IN NURSERY.

EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

07/01/19

- NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT. MULCH SHALL NOT TOUCH THE TREE TRUNK.
- PLANTING DEPTH SHALL BE THE SAME OR HIGHER AS GROWN IN NURSERY.
- WIRE BASKETS AND NON-JUTE BURLAP MUST BE ENTIRELY REMOVED FROM THE ROOT BALL. JUTE BURLAP MUST BE REMOVED FROM THE TOP 1/3 OF THE ROOT BALL.
- DEPTH OF PLANT PIT SHALL BE INCREASED BY 12" WHEREVER POOR SOIL CONDITIONS OCCUR, WITH THE ADDITION OF LOOSE AGGREGATE.
- CONTRACTOR SHALL PARTIALLY FILL WITH WATER A REPRESENTATIVE NUMBER OF PITS IN EACH AREA OF THE PROJECT PRIOR TO PLANTING TO DETERMINE IF THERE IS ADEQUATE PERCOLATION. IF PIT DOESN'T PERCOLATE, MEASURES MUST BE TAKEN TO ASSURE PROPER DRAINAGE BEFORE PLANTING.
- PLANTING MUST BE GUARANTEED FOR TWO FULL GROWING SEASONS FROM THE TIME OF FINAL ACCEPTANCE BY THE LANDSCAPE CONSULTANT. CONTRACTOR SHALL REMOVE ALL WRAPPING AT THE END OF GUARANTEE PERIOD OR SOONER PER PROJECT LANDSCAPE ARCHITECT.
- BACKFILL MIXTURE TO BE SPECIFIED BASED UPON SOIL TEST AND CULTURAL REQUIREMENTS OF PLANT.
- PRUNE DAMAGED AND CONFLICTING BRANCHES MAINTAINING NORMAL TREE SHAPE, NEVER CUT CENTRAL TRUNK OR LEADER.

PLANT DETAIL NOTES

- TEMPORARY SEEDING: REFER TO SOIL EROSION AND SEDIMENT CONTROL PLANS.
- 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.

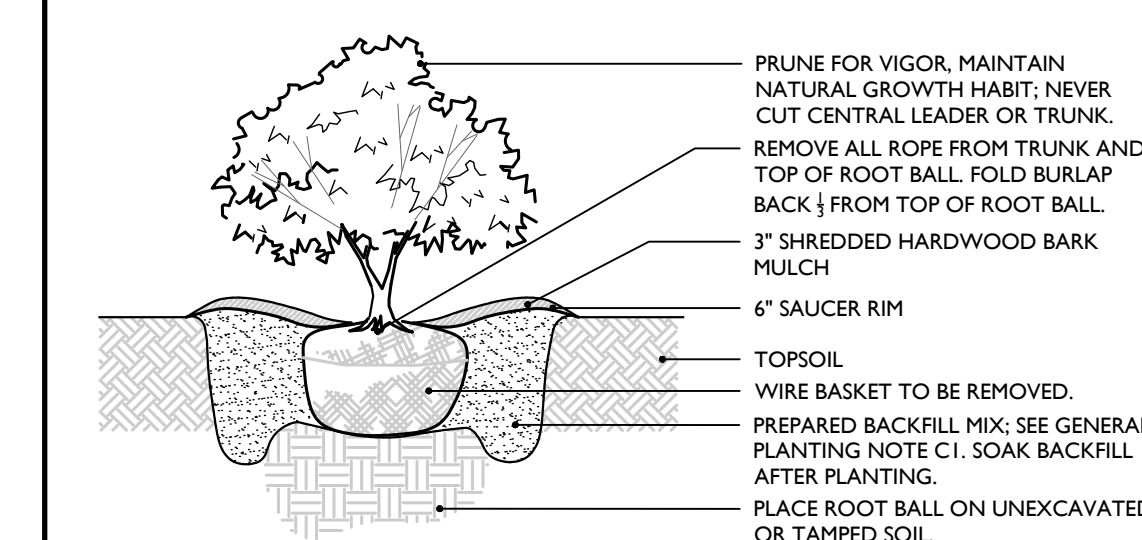
TURF MIX (7-10 LBS / 1,000 S.F. MINIMUM)
TALL FESCUE, STINGRAY (34%)
TALL FESCUE, RAPTOR III (33%)
HARD FESCUE, RIDU (33%)

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

SEEDING OUTSIDE OF THE OPTIMUM DATES SHALL NOT BE CONDUCTED WITH OUT PRIOR APPROVAL.

- PERMANENT SEEDING TO BE APPLIED BY RAKING OR DRILLING INTO THE SOILS AT THE RATE GIVEN ABOVE.
- FERTILIZER FOR THE ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE IN COMPLIANCE WITH THE LATEST NYSDEC REGULATIONS. THIS INCLUDES, BUT LIMITED TO:
 - NO FERTILIZER SHALL BE APPLIED BETWEEN DEC. 1 AND APRIL 1 IN ANY YEAR.
 - SHALL NOT BE APPLIED WITHIN 20 FEET OF A WATER BODY.
 - ONLY LAWN FERTILIZER WITH LESS THAN 0.67% BY WEIGHT PHOSPHATE CONTENT MAY BE APPLIED. (A SOIL TEST PRIOR TO FERTILIZER APPLICATION IS RECOMMENDED.)
- IF SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY OR PERMANENT SEEDING, EXPOSED AREA TO BE STABILIZED WITH MULCH AS INDICATED IN NOTE 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.
- 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 FINAL HARROWING OR DISCING OPERATION SHOULD BE 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 WHENEVER FEASIBLE.
- 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.
- INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

GENERAL SEEDING NOTES

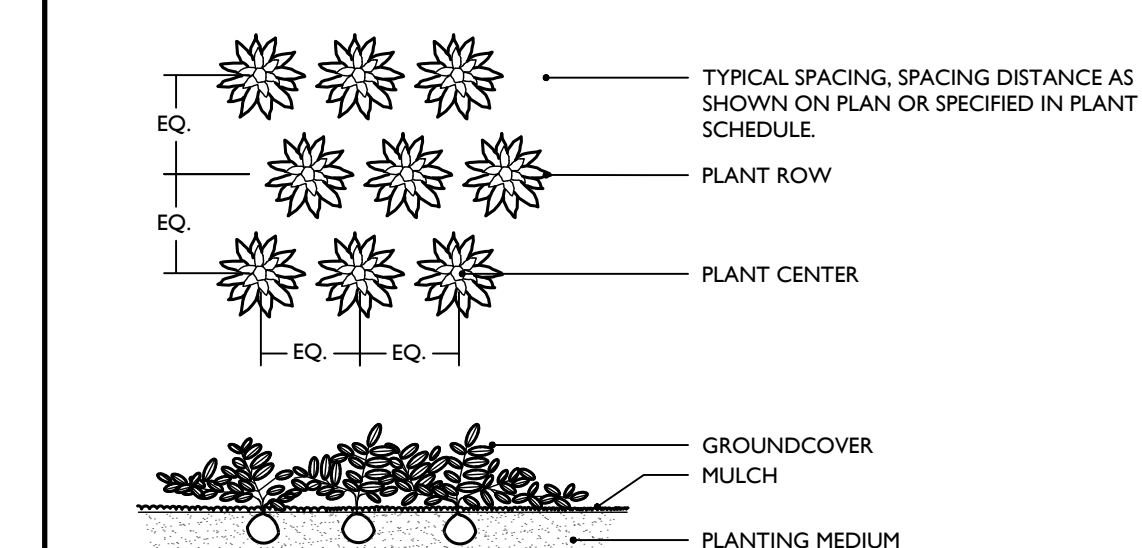


NOTES:

- NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
- PLANTING DEPTH SHALL BE THE SAME OR HIGHER AS GROWN IN NURSERY.

SHRUB PLANTING DETAIL

NOT TO SCALE



NOTES:

- PLANTING DEPTH SHALL BE THE SAME OR HIGHER AS GROWN IN NURSERY.

PERENNIAL PLANTING DETAIL

NOT TO SCALE

TOWN OF WAWAYANDA
PLANNING BOARD