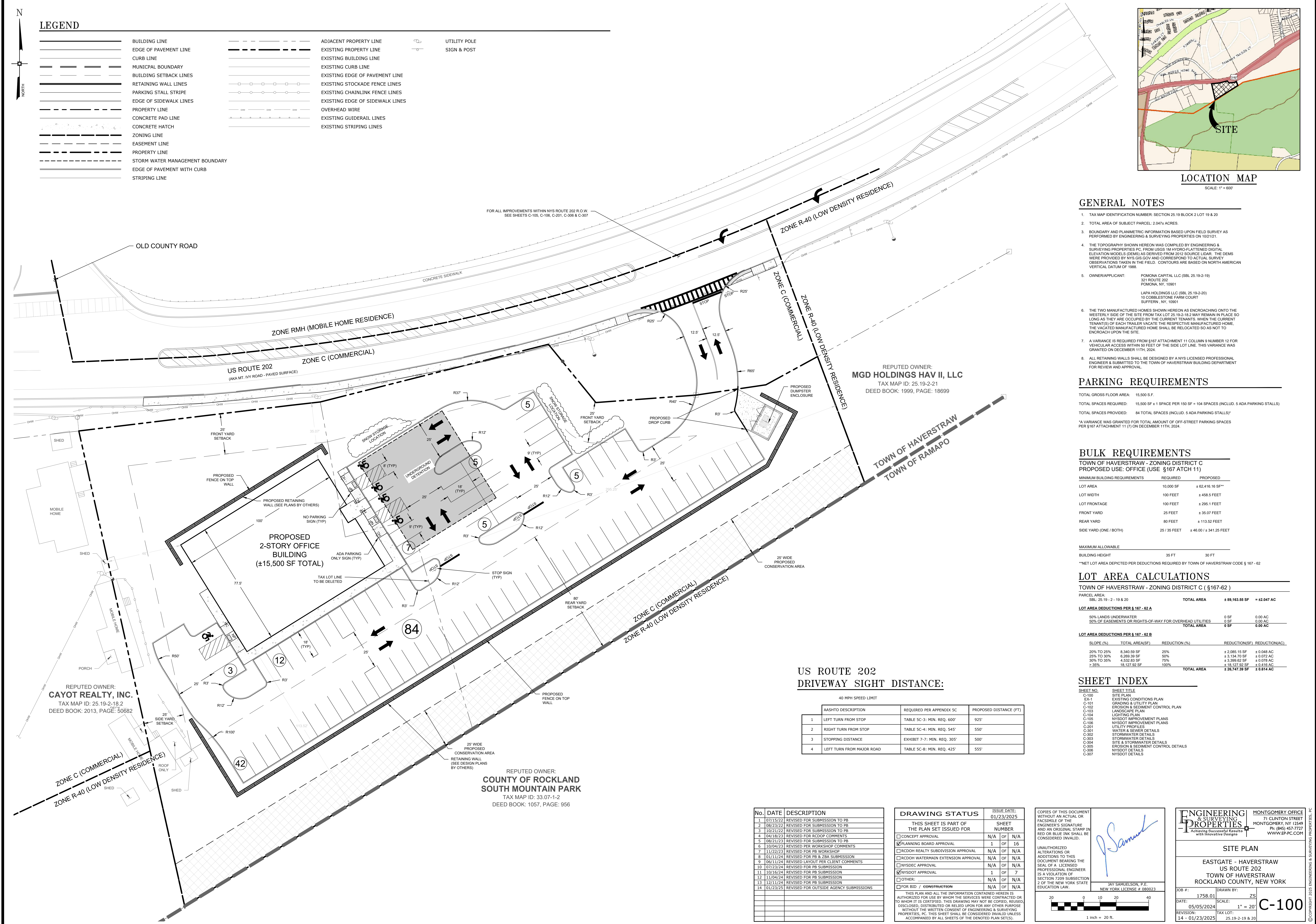






LEGEND

- ADJACENT PROPERTY LINE
- EXISTING PROPERTY LINE
- EXISTING BUILDING LINE
- EXISTING CURB LINE
- EXISTING EDGE OF PAVEMENT LINE
- EXISTING STOCKADE FENCE LINES
- EXISTING CHAINLINK FENCE LINES
- EXISTING EDGE OF SIDEWALK LINES
- OVERHEAD WIRE
- EXISTING GUIDERAIL LINES
- EXISTING STRIPING LINES
- EXISTING STORM DRAIN LINES
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING SEWER MAIN LINES
- MUNICIPAL BOUNDARY
- ZONING LINE
- UTILITY POLE
- SIGN & POST
- WATER MAIN GATE VALVE
- SEWER MANHOLE
- CATCH BASIN
- YARD DRAIN
- FIRE HYDRANT
- EXISTING SLOPES > 35%
- EXISTING SLOPES 30-35%
- EXISTING SLOPES 25-30%
- EXISTING SLOPES 20-25%

No.	DATE	DESCRIPTION
1	07/15/22	REVISED FOR SUBMISSION TO PB
2	08/23/22	REVISED FOR SUBMISSION TO PB
3	10/21/22	REVISED FOR SUBMISSION TO PB
4	04/18/23	REVISED FOR RCDOF COMMENTS
5	08/21/23	REVISED FOR SUBMISSION TO PB
6	10/04/23	REVISED PER WORKSHOP COMMENTS
7	11/22/23	REVISED FOR PB WORKSHOP
8	01/11/24	REVISED FOR PB & ZBA SUBMISSION
9	06/11/24	REVISED LAYOUT PER CLIENT COMMENTS
10	07/23/24	REVISED FOR PB SUBMISSION
11	10/16/24	REVISED FOR PB SUBMISSION
12	11/04/24	REVISED FOR PB SUBMISSION
13	12/11/24	REVISED FOR PB SUBMISSION
14	01/23/25	REVISED FOR OUTSIDE AGENCY SUBMISSIONS

DRAWING STATUS		ISSUE DATE:	
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR		01/23/2025	
	SHEET NUMBER		
☐ CONCEPT APPROVAL	N/A OF 16	☐ PLANNING BOARD APPROVAL	2 OF 16
☒ RCDOH REALTY SUBDIVISION APPROVAL	N/A OF N/A	☐ RCDOH WATERMAIN EXTENSION APPROVAL	N/A OF N/A
☐ NYSDEC APPROVAL	N/A OF N/A	☒ NYSDOT APPROVAL	2 OF 7
☐ OTHER:	N/A OF N/A	☐ FOR BID / CONSTRUCTION	N/A OF N/A

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JAY SAMUELSON, P.E.
NEW YORK LICENSE # 089023

1 inch = 20 ft.

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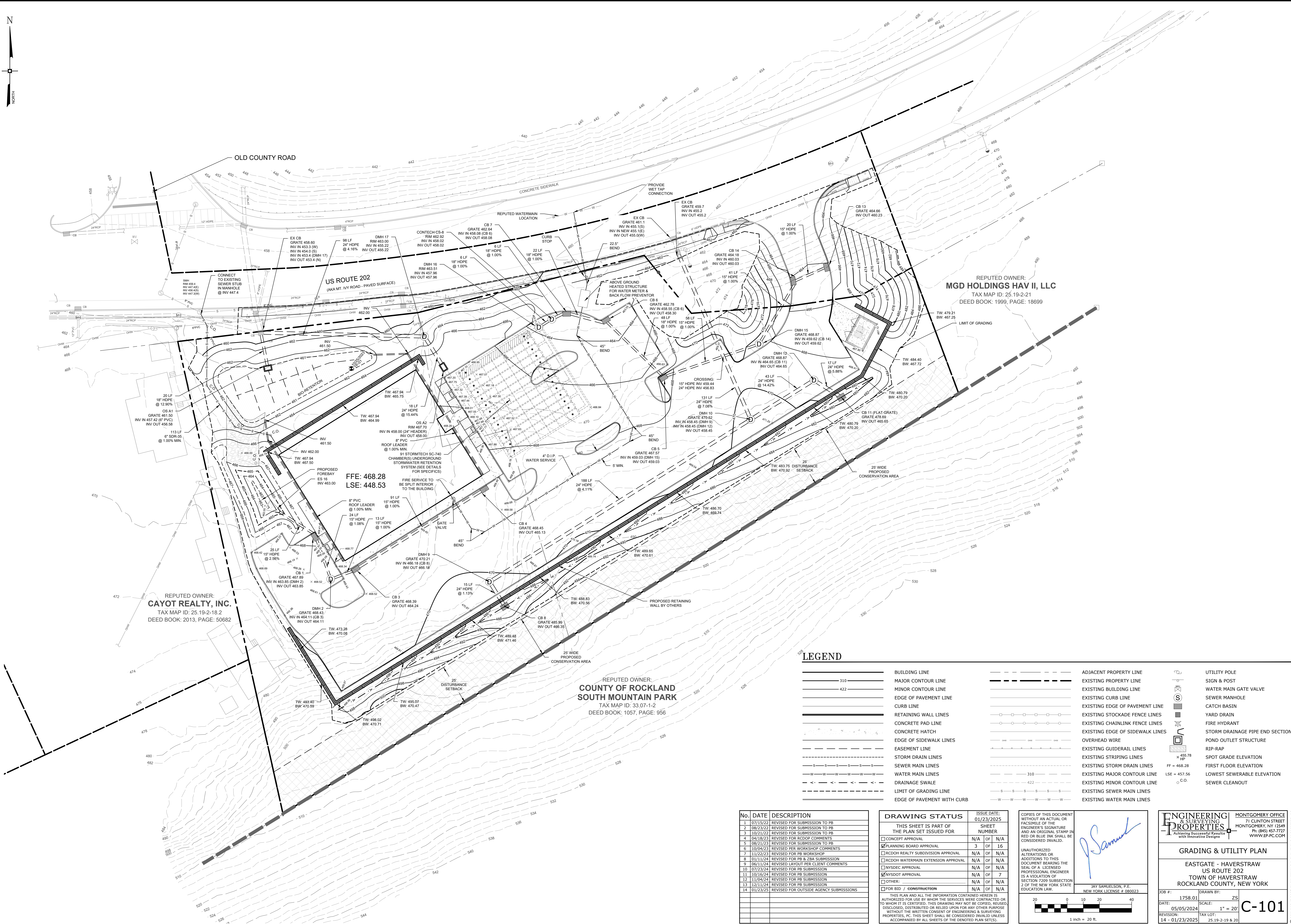
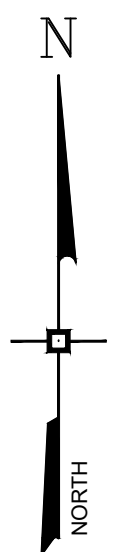
EXISTING CONDITONS PLAN

EASTGATE - HAVERSTRAW
US ROUTE 202
TOWN OF HAVERSTRAW
ROCKLAND COUNTY, NEW YORK

JOB #: 1758.01
DATE: 05/05/2024
REVISION: 14 - 01/23/2025

DRAWN BY: ZS
SCALE: 1" = 20'
TAX LOT: 25.19-2.19 & 20

EX-1



REPUTED OWNER:
CAYOT REALTY, INC.
TAX MAP ID: 25.19-2-18.2
DEED BOOK: 2013, PAGE: 50682

FFE: 468.28
LSE: 448.53

REPUTED OWNER:
**COUNTY OF ROCKLAND
SOUTH MOUNTAIN PARK**
TAX MAP ID: 33.07-1-2
DEED BOOK: 1057, PAGE: 956

LEGEND

	BUILDING LINE		ADJACENT PROPERTY LINE
	MAJOR CONTOUR LINE		EXISTING PROPERTY LINE
	MINOR CONTOUR LINE		EXISTING BUILDING LINE
	EDGE OF PAVEMENT LINE		EXISTING CURB LINE
	CURB LINE		EXISTING EDGE OF PAVEMENT LINE
	RETAINING WALL LINES		EXISTING STOCKADE FENCE LINES
	CONCRETE PAD LINE		EXISTING CHAINLINK FENCE LINES
	CONCRETE HATCH		EXISTING EDGE OF SIDEWALK LINES
	EDGE OF SIDEWALK LINES		OVERHEAD WIRE
	EASEMENT LINE		EXISTING GUIDERAIL LINES
	STORM DRAIN LINES		EXISTING STRIPING LINES
	SEWER MAIN LINES		EXISTING STORM DRAIN LINES
	WATER MAIN LINES		EXISTING MAJOR CONTOUR LINE
	DRAINAGE SWALE		EXISTING MINOR CONTOUR LINE
	LIMIT OF GRADING LINE		EXISTING SEWER MAIN LINES
	EDGE OF PAVEMENT WITH CURB		EXISTING WATER MAIN LINES

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☐	RCDOH REALTY SUBDIVISION APPROVAL	N/A	OF N/A
☐	RCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF N/A
☐	NYSDEC APPROVAL	N/A	OF N/A
☒	NYSDEC APPROVAL	N/A	OF 7
☐	OTHER:	N/A	OF N/A
☐	FOR BID / CONSTRUCTION	N/A	OF N/A

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JAY SAMUELSON, P.E.
NEW YORK LICENSE # 080923

1758.01
05/05/2024
14 - 01/23/2025

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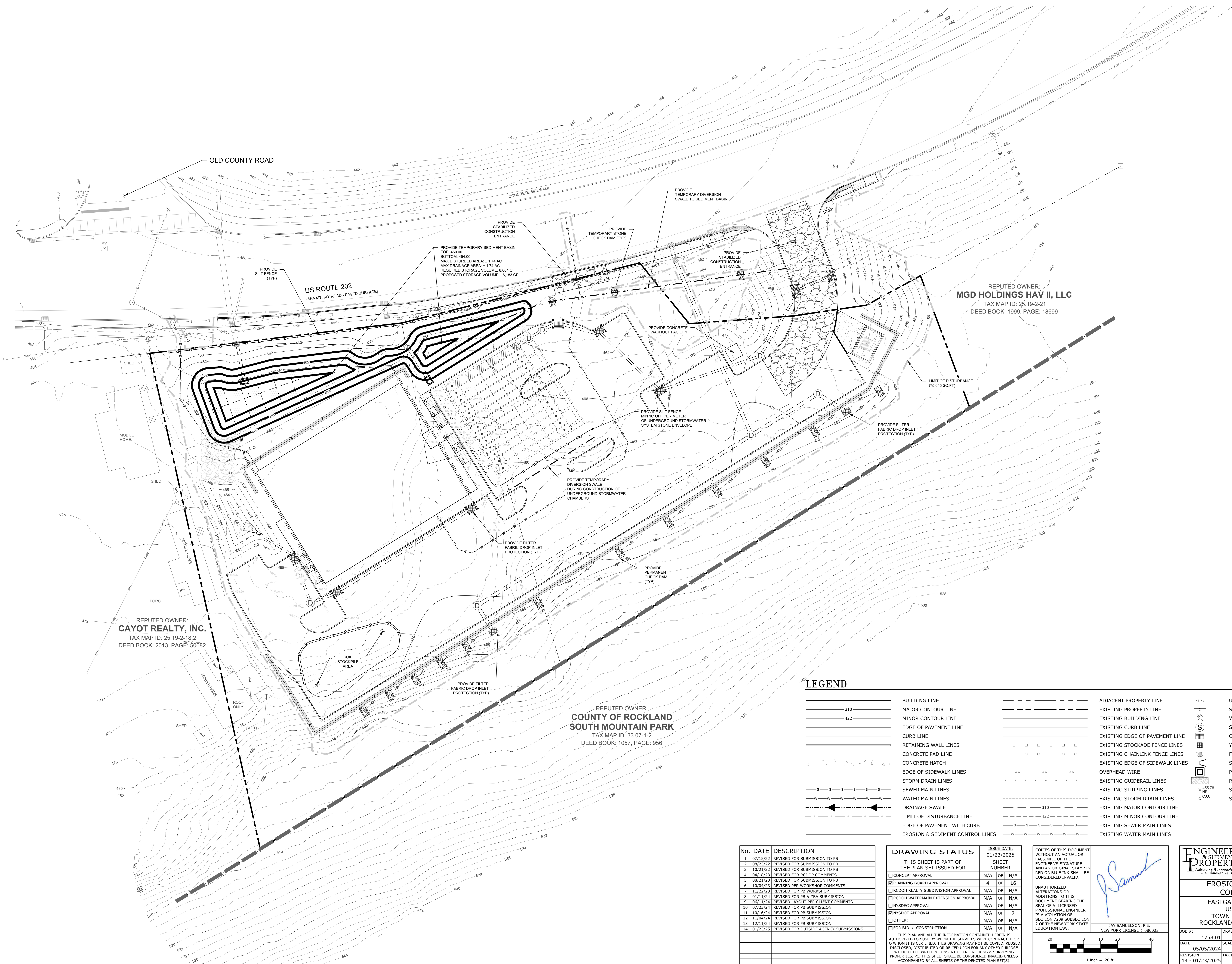
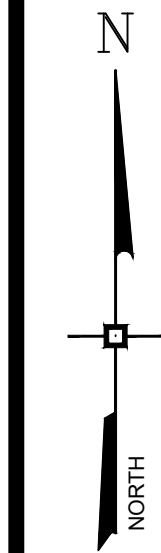
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GRADING & UTILITY PLAN
EASTGATE - HAVERSTRAW
US ROUTE 202
TOWN OF HAVERSTRAW
ROCKLAND COUNTY, NEW YORK

JOB #:
DATE:
REVISION:
14 - 01/23/2025

DRAWN BY:
SCALE:
TAX LOT:
25.19-2-19 & 20

C-101



REPUTED OWNER:
CAYOT REALTY, INC.
TAX MAP ID: 25.19-2-18.2
DEED BOOK: 2013, PAGE: 50682

REPUTED OWNER:
**COUNTY OF ROCKLAND
SOUTH MOUNTAIN PARK**
TAX MAP ID: 33.07-1-2
DEED BOOK: 1057, PAGE: 956

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	SEWER MAIN LINES		EXISTING STRIPING LINES
	WATER MAIN LINES		EXISTING STORM DRAIN LINES
	DRAINAGE SWALE		EXISTING MAJOR CONTOUR LINE
	LIMIT OF DISTURBANCE LINE		EXISTING MINOR CONTOUR LINE
	EDGE OF PAVEMENT WITH CURB		EXISTING SEWER MAIN LINES
	EROSION & SEDIMENT CONTROL LINES		EXISTING WATER MAIN LINES

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☐	RCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF N/A
☐	NYSDOT APPROVAL	N/A	OF 7
☒	NYSDOT APPROVAL	N/A	OF N/A
☐	OTHER:	N/A	OF N/A
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JAY SAMUELSON, P.E.
NEW YORK LICENSE # 188923

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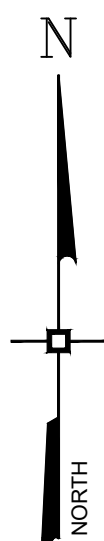
EROSION & SEDIMENT CONTROL PLAN

EASTGATE - HAVERSTRAW
US ROUTE 202
TOWN OF HAVERSTRAW
ROCKLAND COUNTY, NEW YORK

JOB #: 1758.01
DATE: 05/05/2024
REVISION: 14 - 01/23/2025

DRAWN BY: ZS
SCALE: 1" = 20'
TAX LOT: 25.19-2-19 & 20

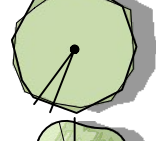
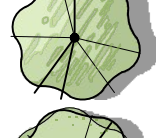
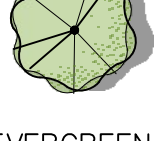
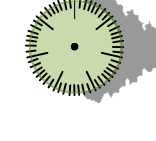
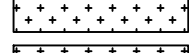
C-102



GENERAL PLANTING NOTES:

- ALL SCREENING FEATURES AND LANDSCAPE PLANTINGS PROVIDED ON THE APPROVED PLAN SHALL BE REQUIRED TO BE MAINTAINED FOR THE LIFE OF THE USE AND SHALL BE REPLACED AND/OR RESTORED AS NECESSARY IN ORDER TO MAINTAIN THEIR EFFECTIVENESS. ANY LOSSES DUE TO STORM DAMAGE, DISEASE OR OTHER FACTORS SHALL BE REPLACED IN KIND WITHIN A PERIOD NOT MORE THAN SIX MONTHS AND THIS REQUIREMENT SHALL BE CONDITION OF ALL COMMERCIAL SITE PLAN APPROVALS AND ALL RELATED CERTIFICATES OF OCCUPANCY.
- PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL ACCEPTANCE OF PROJECT PLANTING. DEAD, DYING, UNHEALTHY AND/OR PLANTS IN POOR CONDITION SHALL BE REPLACED IN THE SAME PLANTING SEASON THAT THE LANDSCAPE ARCHITECT HAS DERIVED THE PLANT UNACCEPTABLE. PLANTINGS THAT REQUIRE REPLACEMENT SHALL BE REPLACED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- EXISTING VEGETATION AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE TOPSOILED AND SEEDED UPON COMPLETION OF WORK.
- NEW PLANTING ROOT BALLS REMOVED FROM CANS SHALL BE SCARIFIED PRIOR TO BACKFILLING THE PLANT.
- ALL PLANTINGS SHOWN ON APPROVED SITE DEVELOPMENT PLAN OR SPECIAL PERMIT PLAN SHALL BE MAINTAINED IN A VIGOROUS GROWING CONDITION THROUGHOUT THE DURATION OF CONSTRUCTION AND PLANTS NOT SO MAINTAINED SHALL BE REPLACED WITH NEW PLANTS AT THE BEGINNING OF THE NEXT GROWING SEASON.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN (7) CALENDAR DAYS OF NOTICE TO PROCEED.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES AND OBTAIN AS-BUILT INFORMATION. DRAWINGS WERE PREPARED ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN (7) CALENDAR DAYS OF NOTICE TO PROCEED OF ANY DISCREPANCIES.
- CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES 48 HOURS MINIMUM PRIOR TO DIGGING FOR VERIFICATION OF ALL UNDERGROUND UTILITIES AND OTHER OBSTRUCTIONS AND COORDINATE WITH OWNER'S REPRESENTATIVE IN WRITING PRIOR TO INITIATING OPERATIONS.
- TYPICALLY, SHRUB AND GROUND COVER PLANTINGS ARE SHOWN AS MASS PLANTING BEDS. PLANTS SHALL BE PLACED ON A TRIANGULAR SPACING CONFIGURATION (STAGGERED SPACING). PLANT CENTER TO CENTER DIMENSIONS (O.C.) ARE LISTED ON THE PLANT LIST.
- CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES AND/OR EXISTING ABOVE-GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
- ALL TREES PLANTED IN LAWN AREA SHALL RECEIVE 4" DIAMETER MULCH RING AT A DEPTH OF 4".
- PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES, THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND SPECIFICATIONS FOR FURTHER AND COMPLETE INSTRUCTIONS.

SITE PLANTING SCHEDULE

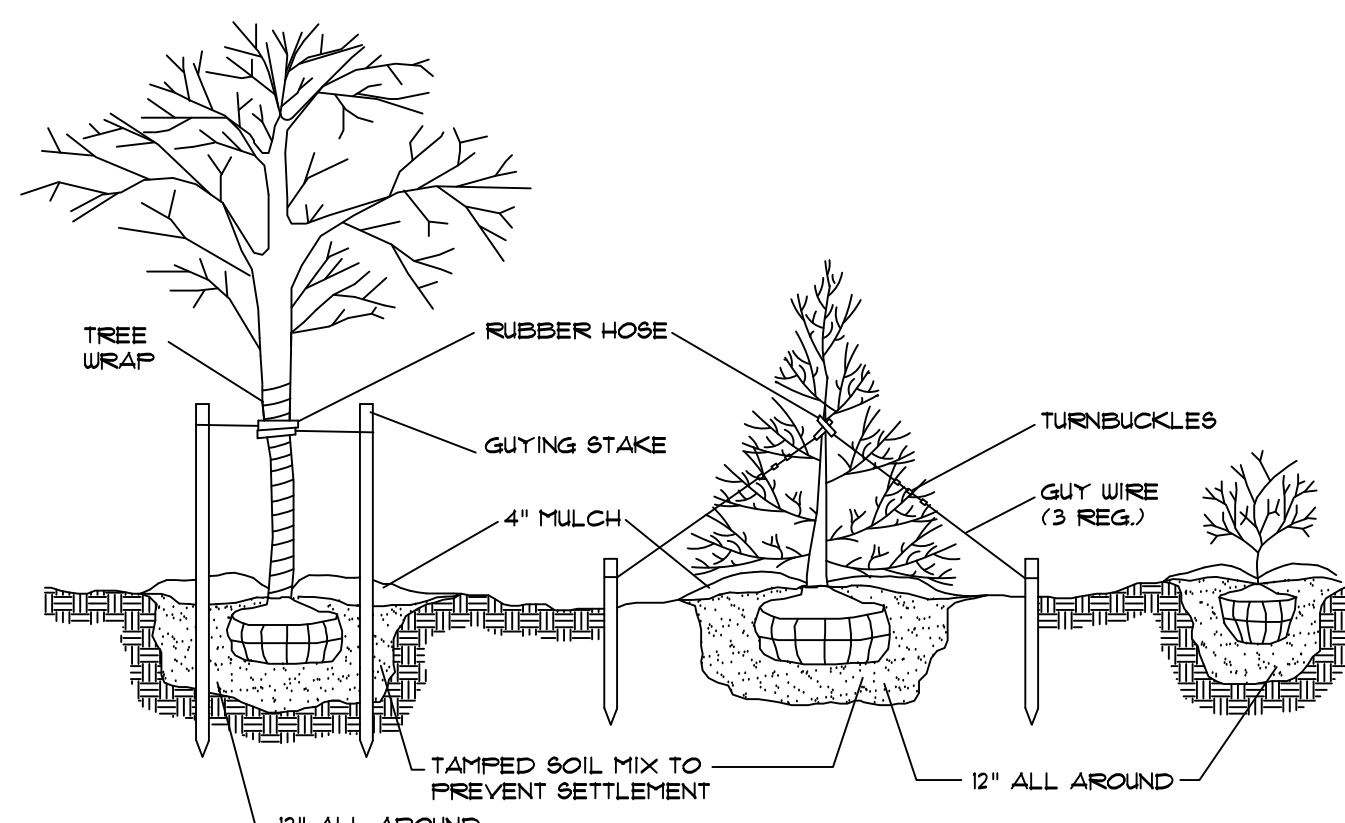
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	QTY	REMARKS	
DECIDUOUS TREES						
	AO	Acer rubrum 'October Glory' / October Glory Red Maple	3"-3-1/2" Cal.	9	B4B	
	BN	Betula nigra / River Birch	14#-16# Ht.	3	B4B	
	PX	Prunus x yedoensis / Yoshino Cherry	2-1/2"-3" Cal.	3	B4B	
EVERGREEN TREES						
	TS	Thuja standishii x plicata 'Green Giant' / Green Giant Arborvitae	6#-7# Ht.	9	B4B	
SYMBOL CODE BOTANICAL / COMMON NAME SIZE SPACING QTY REMARKS						
DECIDUOUS SHRUBS						
	CAS	Cornus alba 'Sibirica' / Redbark Tatarian Dogwood	30"-34"	48" o.c.	6	B4B
	COR	Cornus amomum / Silky Dogwood	30"-34"	48" o.c.	11	CONT.
	SLP	Spiraea x bumalda 'Little Princess' / Little Princess Spiraea	24"-30"	48" o.c.	17	B4B
EVERGREEN SHRUBS						
	BS	Buxus sempervirens / Common Boxwood	30"-34"	48" o.c.	6	B4B
	IG	Ilex glabra 'Shamrock' / Shamrock Inkberry Holly	34"-36"	48" o.c.	11	B4B
	JC	Juniperus chinensis 'Gold Coast' / Gold Coast® Juniper	30"-34"	54" o.c.	26	CONT.
	VR	Viburnum rhytidophyllum / Leatherleaf Viburnum	34"-36"	60" o.c.	12	B4B
GRASSES						
	FA	Pennisetum alopecuroides 'Hameln' / Hameln Fountain Grass	2 gal.	24" o.c.	79	
PERENNIALS						
	ANA	Aster novae-angliae / New England Aster	1 gal.	24" o.c.	18	
	NF	Nepeta x faassenii / Catmint	2 gal.	24" o.c.	54	

PERMANENT SEEDING SCHEDULE

- TOPSOIL SHALL BE SPREAD TO A CONTRACTED UNIFORM THICKNESS OF 4".
- TOPSOIL SURFACE SHALL BE FINELY GRADED AND LOOSENEED BY MECHANICAL RAKES TO ENSURE SEED ACCEPTANCE AND SEED TO SOIL CONTACT.
- FERTILIZER SHALL BE APPLIED AT 6 LBS. OF 5-10-10 COMMERCIAL FERTILIZER/1000 SQ. FT.
- SEEDINGS SHALL BE INSTALLED AT 5 LBS./1000 SQ. FT. OF:
 - 60% KENTUCKY BLUE GRASS
 - 20% CHELSEA FESCUE
 - 20% PERENNIAL RYE

PLANTING SCHEDULE

TREES & SHRUBS	SPRING PLANTING	FALL PLANTING
EVERGREEN	APRIL 1 - JUNE 30	SEPT. 1 - OCT. 15
DECIDUOUS	MARCH 1 - JUNE 30	OCT. 1 - DEC. 1



DECIDUOUS TREES EVERGREEN TREES SHRUBS
PLANTING & GUYING DETAIL
SCALE: NTS

STORMWATER MANAGEMENT PLANTINGS:

	LOWEST ZONE / AQUATICS AREA: POTAMOGETON PECTINATUS, CERATOPHYLLUM DEFFENSEUM, ELODEA CANADENSIS, VALLISNERIA AMERICANA, GLYCERIA PALLIDA, MYOSOTIS LAXA, LIEBISIA ORYZOIDES, POLYGONUM AMPHIBIUM, NITHEA OODORATA, NUPHAR ADVENA, 1 LB PER 1,000 SF.
	PERMANENT GRASS MIX
	DRAW DOWN ZONE / EMERGENT AREA: NORTHEAST WETLAND NATIVE WILDOGWEED MIX 1 LB PER 1,000 SF.
	NORTHEAST WETLAND GRASS SEED MIX 1 LB PER 3,000 SF.



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☐ CONCEPT APPROVAL	N/A	OF N/A
☒ PLANNING BOARD APPROVAL	5	OF 16
☐ RCDOH REALTY SUBDIVISION APPROVAL	N/A	OF N/A
☐ RCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF N/A
☐ NYSDEC APPROVAL	N/A	OF N/A
☒ NYSDEC APPROVAL	N/A	OF 7
☐ OTHER:	N/A	OF N/A
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STEVEN T. ESPOSITO, R.L.A.
NEW YORK LICENSE # 001169

20 0 10 20 40
1 inch = 20 ft.

ENGINEERING & SURVEYING PROPERTIES
Achieving Successful Results with Innovative Designs

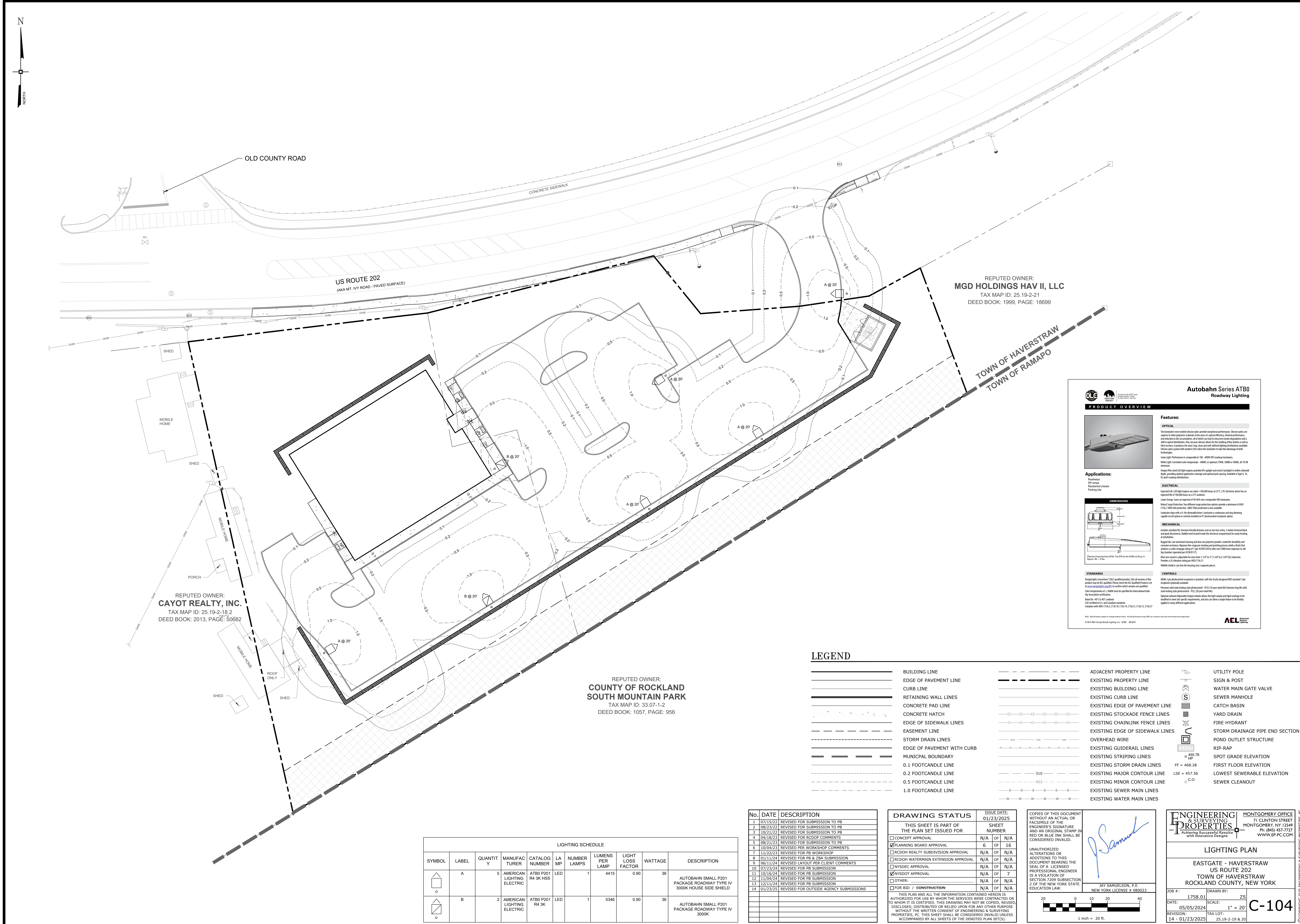
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MONTGOMERY, NY 12549
Ph: (845) 457-7727
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LANDSCAPE PLAN

EASTGATE - HAVERSTRAW
US ROUTE 202
TOWN HAVERSTRAW
ROCKLAND COUNTY, NEW YORK

JOB #: 1758.01 DRAWN BY: SMB
DATE: 05/05/2022 SCALE: 1" = 20'
REVISION: 14 - 01/13/2025 TAX LOT: 25-19-2-19 & 20

C-103



1. NO WORK WITHIN THE STATE ROW SHALL COMMENCE WITHOUT A PRE-CONSTRUCTION MEETING. WITH NYSDOT REPRESENTATIVES PRESENT.
2. THE PERMITTEE IS RESPONSIBLE FOR HIRING AN INSPECTOR TO BE ON SITE DURING ALL CONSTRUCTION ACTIVITIES. THE INSPECTOR SHALL BE A LICENSED PROFESSIONAL ENGINEER WHO IS PERFORMING IN ACCORDANCE TO NYSDOT SPECIFICATIONS. THE INSPECTOR MUST BE EXPERIENCED IN NYSDOT WORK AND SHALL BE APPROVED BY THE STATE PROJECT MANAGER. THE PERMITTEE IS RESPONSIBLE FOR REMBURSING THE COST OF SITE VISITS BY A NYSDOT REPRESENTATIVE (RESIDING PERMIT ENGINEER) AS FOLLOWS:
 - a. 10% OF THE PROJECT BUDGET FOR THE FIRST VISIT
 - b. 5% OF THE PROJECT BUDGET FOR EACH SUBSEQUENT VISIT
3. MAINTENANCE AND PROTECTION OF TRAFFIC IS THE RESPONSIBILITY OF THE PERMITTEE. ANY SUBCONTRACTORS WORKING FOR THE PERMITTEE MUST HAVE A COPY OF THE HIGHWAY WORK PERMIT ON THE SITE AND MUST BE FAMILIAR WITH THE REQUIREMENTS. THE PERMITTEE IS RESPONSIBLE FOR INITIATING A SAFETY MEETING WITH EACH WORK CREW BEFORE THE START OF WORK.
4. TRAFFIC CONTROL MUST BE IN PLACE AND MAINTAINED THROUGHOUT THE DURATION OF WORK.
5. ALL MAINTENANCE AND PROTECTION OF TRAFFIC IS TO BE IN ACCORDANCE WITH THE NYSDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE NYS SPECIFICATIONS.
6. ANYONE WORKING WITHIN THE HIGHWAY ROW SHALL WEAR HIGH-VISIBILITY APPAREL MEETING THE ANSI 107 CLASS II STANDARDS AND AN OSHA APPROVED HARD HAT.
7. AT THE START OF WORK ALL WORK ZONE TRAFFIC CONTROL DEVICES SHALL APPEAR IN "ACCEPTABLE" CONDITION. THESE DEVICES SHALL NOT BE ALLOWED TO FALL BELOW THE "MARGINAL" CONDITION AT ANY POINT DURING THE LIFE OF THE PROJECT. DAMAGED AND DETERIORATED PANELS AND NON-STANDARD LEGENDS ARE NOT ACCEPTABLE.
8. FLAGGER SIGNS ARE TO BE USED ONLY WHEN A FLAGGER IS ACTUALLY PRESENT AND THE FLAGGER IS NOT REQUIRED TO BE REMOVED OR MOVED AT ALL OTHER TIMES. STOP/LOW PASSES ARE REQUIRED.
9. NO LOW-MOUNTED SIGNS SHALL BE PERMITTED, EXCEPT FOR FLEXIBLE PANELS MEETING THE CURRENT SPECIFICATION REQUIREMENTS.
10. AS-BUILT PLANS SHALL BE SENT TO THE NYSDOT IN HARD COPY AND ELECTRONIC FORMAT COMPATIBLE WITH THE SYSTEM CURRENTLY USED BY NYSDOT.

1. GENERAL – THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGHOUT THE LENGTH OF THE CONTRACT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 619 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS. ALL TRAFFIC MUST BE KEPT ON THE ROADWAY SURFACE. THE CONTRACTOR SHALL POST AND MAINTAIN ALL TRAFFIC MPMS (MPM) DETAILS IN THE PLANS AND PROPOSAL, WHERE PROVIDED, OR AS DIRECTED BY THE ENGINEER.
2. CONSTRUCTION EQUIPMENT – ALL CONSTRUCTION EQUIPMENT SHOULD BE A MINIMUM OF TWO FEET FROM THE EDGE OF PAVEMENT DURING NORMAL HOURS.
3. CONSTRUCTION MATERIAL – NO MATERIAL IS TO BE PLACED ON THE SHOULDER, OR WITHIN THIRTY (30) FEET FROM THE EDGE OF THE PAVEMENT, EXCEPT THAT IT IS TO BE PLACED THAT DAY.
4. PARKING VEHICLES - PRIVATE VEHICLES OWNED BY THE CONTRACTOR OR HIS SUBCONTRACTORS ARE NOT ALLOWED TO BE PARKED ON THE SHOULDER, OR AT ANY OTHER AREA DEEMED BY THE ENGINEER TO BE HAZARDOUS LOCATIONS.
5. ADVANCE WARNING SIGNS - DIAMOND SHAPED ADVANCE WARNING SIGNS SHALL BE USED.
6. WORK ZONES - WORK ZONES SHALL BE LIMITED TO ONE SIDE OF THE TRAVELED WAY. WHEN BOTH SIDES OF THE TRAVELED WAY ARE OPEN TO TRAFFIC, OPPOSITE SIDES OF THE ROAD SHALL NOT OVERLAP. A WORK ZONE IS DEFINED AS THE AREA OF THE ROADWAY WHERE RESURFACING, REPAIRS, MAINTENANCE, OR ANY OTHER ACTIVITY INVOLVES A DROP-OFF NEXT TO THE PAVEMENT. IN SPECIAL CASES THE LONGITUDINAL DISTANCE BETWEEN WORK ZONES OR THE LENGTH OF THE WORK ZONE MAY LIMIT THE USE OF THE FOLLOWING SIGNAGE. ALL WORK ZONES MUST BE PROTECTED THROUGH WORK ZONES IN ACCORDANCE WITH FIGURES 86H, THRU 86I, OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS TOGETHER WITH ANY ADDITIONAL CONTROL DEVICES OR METHODS AS DIRECTED BY THE ENGINEER.
7. OVERLAPPING WORK ZONES - THE CONTRACTOR SHALL COORDINATE HIS WORK SO THAT THERE IS NO CONFLICT CONTINUITY OF THE WORK ZONES. THE CONTRACTOR SHALL SO THAT LINE CONTINUITY IS MAINTAINED BETWEEN THE WORK AREAS. THE CONTRACTOR SHALL MAINTAIN THE NECESSARY CLEARANCES FOR THE PROTECTION, MAINTENANCE, OR UTILITIES COMPANIES' OPERATIONS IN THE AREA TO ENSURE PROPER MAINTENANCE OF TRAFFIC.
8. CONES, DRUMS, BARRICADES AND MARKERS - ALL CONES, DRUMS AND MARKERS SHALL BE SPACED TO PROVIDE A MINIMUM TWO (2) FOOT CLEARANCE TO THE TRAVEL WAY UNLESS OTHERWISE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE REQUIRED CLEARANCE TO THE TRAVEL WAY. THE CONTRACTOR'S BARRICADES SHALL NOT INTERFERE WITH SIGHT DISTANCE. TYPICAL SPACING SHALL BE APPROXIMATELY ONE (1) FOOT PER MILE OF APPROACH SPEED (IE. 40 MPH = 40 FT).
9. VEHICLE RESTRICTIONS - WHENEVER CONSTRUCTION CONDITIONS RESTRICT PASSAGE BY OVERSIZED VEHICLES, THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO THE STATE DEPARTMENT OF TRANSPORTATION AND THE LOCAL LAW ENFORCEMENT OFFICE. THIS WRITTEN NOTICE SHALL BE GIVEN ONE WEEK PRIOR TO THE BEGINNING OF THE RESTRICTION. VERBAL NOTICE SHALL BE GIVEN AT THE TIME OF TERMINATION OF THE RESTRICTION.
10. TAPER LENGTHS - TAPER LENGTHS FOR CLOSURES AND LATERAL SHIFTS OF TRAFFIC SHALL BE DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN THESE USING AN APPROACH SPEED OF 40 MPH OR AS DIRECTED BY THE ENGINEER.
11. TEMPORARY PAVEMENT MARKINGS - THE CONTRACTOR SHALL PROVIDE TEMPORARY PAVEMENT MARKINGS AT ALL TIMES ON ALL PAVEMENT, WHETHER OR NOT THE PAVEMENT HAS BEEN DESTROYED. ALL MARKINGS SHALL BE APPLIED OR RESTORED THIS SHALL INCLUDE AT ALL APPROPRIATE LOCATIONS: EDGE LINES, LAINE LINES, (SOLID OR BROKEN), CHANNELLING LINES, DOTTED LINES, PLUS ANY OTHER MARKINGS REQUIRED BY THE ENGINEER. ALL MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE MUTCD AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT. THE COST OF THE TEMPORARY PAVEMENT MARKINGS SHALL BE INCLUDED IN THE COST OF THE ITEM PAVEMENT.

- [illegible]

8. **LANE CLOSURES** - THE CONTRACTORS SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION AND SHALL PROVIDE FLAG PERSONS AS NECESSARY AS ORDERED BY THE ENGINEER. THE CONTRACTORS SHALL MAINTAIN THE TRAFFIC FEET UNLESS OTHERWISE SHOWN AT THE SITE OF PAVING OR OTHER WORK OR OTHERWISE INDICATED BY THE ENGINEER.
9. **TRAFFIC CONTROL** - THE CONTRACTORS SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC PROVIDED FLAGPERSONS TO CONTROL TRAFFIC MOVEMENT. THE CONTRACTOR SHALL MAINTAIN THE TRAFFIC CONTROL PERSONNEL TO REMAIN ON THE ROAD OPEN WHEN THE CONTRACTORS OPERATIONS ARE CLOSED DOWN OR SUBSTANTIALLY COMPLETED AND DURING THE TRAVEL LANE CLOSURE FROM 5:00 P.M. TO 6:00 P.M. THE CONTRACTOR SHALL CONTACT THE TRANSPORTATION MANAGEMENT CENTER AT 714-642-6100 ONE WEEK PRIOR TO ANY POSSIBLE LANE CLOSURE.
10. **PUBLIC INGRESS AND EGRESS** - THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH PROPER ACCESS TO THEIR PROPERTIES AND SHALL BE PREVENTED ACCORDING TO THE POLICY AND STANDARDS FOR ENTRANCES TO STATE HIGHWAYS AND LOCAL ROADS. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES DELINEATE THEM BY MEANS OF SIGNS, CONES, AND/OR DRUMS OR A B.E. WHERE DIRECT ACCESS TO DRIVEWAYS IS NOT POSSIBLE DUE TO NECESSARY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL MAINTAIN THE MEANS OF ACCESS AND SUBMIT SUCH A PLAN TO THE ENGINEER FOR APPROVAL BEFORE ANY CONSTRUCTION BEGINS. THE CONTRACTOR SHALL MAINTAIN THE MEANS OF ACCESS AND PROTECTION OF TRAFFIC ACCESS SHALL BE PROVIDED TO ALL DRIVEWAYS AND DRIVEWAYS SERVING COMMERCIAL AND RESIDENTIAL PROPERTIES. ALL COMMERCIAL ESTABLISHMENTS SHALL BE PROVIDED AND PLACED NEXT TO ANY DRIVEWAYS. SIGNS SHALL BE AS APPROVED BY THE ENGINEER. THE COST FOR ANY DELAYED OR CANCELLED CLOSURE OF DRIVEWAYS SHALL BE THE BASIC PRICE BID FOR BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.
11. **TRAFFIC CONTROL INGRESS AND EGRESS** - THE CONTRACTOR SHALL KEEP TO A MINIMUM ONE LANE OF TRAFFIC IN EACH DIRECTION. THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION VEHICLES AND EQUIPMENT ON THE NECESSARY OR AUTHORIZED VEHICLES AND AS DETERMINED BY THE ENGINEER SHALL BE ALLOWED TO ENTER ANY TRAVEL LANE.
12. **DELIMITER** - DOUBLE DELINEATORS (WHITE ON MOTORISTS RIGHT AND YELLOW ON MOTORISTS LEFT) SHALL BE INSTALLED AT 40 FOOT INTERVALS AS PER STANDARD SPEC 686.01 AT ALL LOCATIONS WHERE TEMPORARY CONSTRUCTION BARRIER, MEDIAN BARRIER OR TRAFFIC CONTROL BARRIER IS REQUIRED. THE CONTRACTOR SHALL PROVIDE TRAVEL LANES (I.E. LANE AND/OR SHOULDER WITH LESS THAN EXISTING), THE COST INCLUDING DELIMITER SHALL BE THE PRICE BID FOR BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.
13. **MISCELLANEOUS** - IN THE EVENT THE CONTRACTOR SHUTS DOWN THEIR OPERATION FOR THE WINTER MONTHS, THE ENTIRE HIGHWAY SYSTEM SHALL BE OPENED TO TRAFFIC. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AND/OR LOCAL AND ALL CONSTRUCTION SIGNS SHALL BE REMOVED OR COVERED IF ANY CONSTRUCTION SCHEDULE IS NOT COMPLETED BY THE END OF THE YEAR. AND LEVELING COURSES ARE LEFT AS RIDING SURFACES FOR THE WINTER MONTHS. THE CONTRACTOR PERFORMANCE SHALL BE BASED ON THE STANDARD SPECIFICATIONS SHALL BE APPLIED AT THE CONTRACTORS EXPENSE PRIOR TO PLACING AN ADDITIONAL ASPHALT CONCRETE ALL ROADWAY AREAS TEMPORARILY CLOSED DURING THE WINTER MONTHS. THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC AT THE END OF THE WORKDAY AT ALL TIMES WHEN WORK IS NOT IN PROGRESS ALL ROADWAY AREAS TO BE MAINTAINED SHALL BE MAINTAINED TO A MINIMUM OF 12 INCHES BELOW THE ADJACENT UNDEVELOPED AREA TO A DEPTH AS ORDERED BY THE ENGINEER. THE TOTAL DEPTH OF THE EXCAVATION SHALL BE 18 INCHES. IF PLANT BITUMINOUS MATERIAL, UP TO THE LEVEL OF THE ADJACENT UNDEVELOPED AREA TO A DEPTH AS ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN ALL ROADWAY AREAS TO BE MAINTAINED SHALL BE MAINTAINED UNTIL ITS REMOVAL AT NO ADDITIONAL COST TO THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN ALL ROADWAY AREAS SHALL BE INCLUDED IN THE PRICE BID FOR RESPECTIVE EXCAVATION ITEM WITH NO EXTRA PAYMENT. THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF PLANT BITUMINOUS MATERIAL TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STARTING OF ANY ROADWAY EXCAVATION. THE STEEL PLATES SHALL BE MAINTAINED WITH A BITUMINOUS MATERIAL PRIOR TO OPENING THE LANE.

NEW YORK STATE ROUTE 202 HAS AN AVERAGE ANNUAL DAILY TRAFFIC (A.A.D.T.) OF 14,561 AND A DESIGN SPEED OF 40 MILES PER HOUR (M.P.H.) AT THIS LOCATION.

2. SURVEY REFERENCES:

2.1. THE GENERAL BOUNDARY & TOPOGRAPHICAL INFORMATION BASED UPON AN ACTUAL FIELD SURVEY AS PERFORMED BY ENGINEERING & SURVEYING PROFESSIONALS, PC ON OCTOBER 21, 2021.

3. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS, JANUARY 1, 2020 AND ADDENDUMS THERETO AND STANDARD DETAILS.

4. CONTRACTOR SHALL VERIFY EXISTING GRADES, EXISTING UTILITIES, LOCATIONS AND OTHER EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR FURTHER RESOLUTION.

5. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT OTHER CONTRACTORS MAY BE WORKING IN THE AREA ON OTHER CONTRACTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKING IN CONJUNCTION WITH THE CONTRACTOR SHALL BE AWARE OF THE NATURE AND EXTENT OF SUCH OTHER WORK AND SHALL SCHEDULE AND CONDUCT HIS OWN OPERATION SO THAT THERE WILL BE NO CONFLICT IN OPERATIONS.

6. SINCE THIS PROJECT INVOLVES CONSTRUCTION WITHIN AN ACTIVE ROADWAY, IT IS IMPERATIVE THAT THE CONTRACTOR TAKE THE NECESSARY PRECAUTIONS TO INSURE THAT PROPER TRAFFIC FLOW IS MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC IN ACCORDANCE WITH THE FEDERAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS.

7. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS AND SHALL BE RESPONSIBLE FOR FIELD FIT FINISH AND QUALITY OF WORK AND MATERIAL USED IN THE CONSTRUCTION. NO ALLOWANCE SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.

8. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT AND RESTORATION OF ALL MATERIAL AND MANMADE FEATURES WHETHER SHOWN ON THE PLANS OR ENCOUNTERED IN THE FIELD. IT IS THE INTENTION OF THE PLANS TO SHOW ONLY MAJOR FEATURES TO BE PROTECTED, RESTORED, OR REPLACED.

9. PROTECTION AND RESTORATION OF PROPERTY SHALL BE IN ACCORDANCE WITH THE NYSDOT STANDARD SPECIFICATIONS.

10. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE PARTIES WITH JURISDICTION OVER THE UTILITIES ENCOUNTERED NEAR THE PROJECT AREA PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES AND PROVIDE THOSE AGENCIES 72 HOURS NOTIFICATION.

11. THE CONTRACTOR SHALL VERIFY THE LOCATION OF AND SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE PROJECT. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES SHOWN ON THE CONTRACT DRAWINGS, IF THEY ARE SHOWN ON THE DRAWINGS, THEIR LOCATIONS ARE NOT GUARANTEED EVEN THOUGH THE INFORMATION WAS OBTAINED FROM THE BEST AVAILABLE SOURCES, AND IN ANY EVENT, OTHER UTILITIES MAY BE ENCOUNTERED WHILE CONSTRUCTING IN THE FIELD. THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT ARE DAMAGED, AND SHALL CONSTANTLY MAINTAIN PROPER RECORDS OF ALL UTILITIES ENCOUNTERED.

12. IF TEMPORARY UTILITY SERVICES ARE REQUIRED, THE CONTRACTOR SHALL PROVIDE THESE UTILITY SERVICES AT NO ADDITIONAL COST TO THE OWNER, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SUCH TEMPORARY FACILITIES FOR THE DURATION OF THE PROJECT.

13. ALL EPOXY PAVEMENT MARKINGS AND ALL SIGNS SHALL BE IN CONFORMANCE WITH THE MUTCD.

14. ALL DISTURBED AREAS WITHIN THE R.O.W. SHALL BE TOPSOILED, SEEDDED AND MULCHED. TOPSOIL SHALL BE PLACED AND AREAS SHALL BE SEEDDED AS SOON AS FINAL GRADES ARE ESTABLISHED. ALL DISTURBED AREAS SHALL BE MULCHED.

15. CONTRACTOR SHALL INSTALL AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH SECTION 209 OF THE NYSDOT STANDARD SPECIFICATION AND STANDARD DETAIL SHEETS DRAWINGS 209-1 THROUGH 209-7.



	BUILDING LINE
	EDGE OF PAVEMENT LINE
	CURB LINE
	MUNICIPAL BOUNDARY
	BUILDING SETBACK LINES
	RETAINING WALL LINES
	PARKING STALL STRIPE
	EDGE OF SIDEWALK LINES
	PROPERTY LINE
	CONCRETE PAD LINE
	CONCRETE HATCH
	ZONING LINE
	EASEMENT LINE
	PROPERTY LINE
	STORM WATER MANAGEMENT BOUNDARY
	EDGE OF PAVEMENT WITH CURB

	ADJACENT PROPERTY LINE		UTILITY POLE
	EXISTING PROPERTY LINE		SIGN & POST
	EXISTING BUILDING LINE		
	EXISTING CURB LINE		
	EXISTING EDGE OF PAVEMENT LINE		
	EXISTING STOCKADE FENCE LINES		
	EXISTING CHAINLINK FENCE LINES		
	EXISTING EDGE OF SIDEWALK LINES		
	OVERHEAD WIRE		
	EXISTING GUIDERAIL LINES		
	EXISTING SINGLE WHITE LINES (SWL)		
	EXISTING DOUBLE YELLOW CENTER LINES (DYCL)		
	SINGLE WHITE LINES (SWL)		
	DOUBLE YELLOW CENTER LINES (DYCL)		
	CROSSWALK LINES (CWL)		
	STOP BAR (SWSL)		

No.	DATE	DESCRIPTION
1	07/15/22	REVISED FOR SUBMISSION TO PB
2	08/23/22	REVISED FOR SUBMISSION TO PB
3	10/21/22	REVISED FOR SUBMISSION TO PB
4	04/18/23	REVISED FOR RCOP COMMENTS
5	08/21/23	REVISED FOR SUBMISSION TO PB
6	10/04/23	REVISED PER WORKSHOP COMMENTS
7	11/22/23	REVISED FOR PB WORKSHOP
8	01/11/24	REVISED FOR PB & ZBA SUBMISSION
9	06/11/24	REVISED LAYOUT PER CLIENT COMMENTS
10	10/23/24	REVISED FOR PB SUBMISSION
11	07/16/24	REVISED FOR PB SUBMISSION
12	11/04/24	REVISED FOR PB SUBMISSION
13	12/11/24	REVISED FOR PB SUBMISSION
14	01/23/25	REVISED FOR OUTSIDE AGENCY SUBMISSIONS

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☐ JCDDH REALTY SUBDIVISION APPROVAL		N/A	OF N/A
☐ JCDDH WATERMAIN EXTENSION APPROVAL		N/A	OF N/A
☐ NYSDEC APPROVAL		N/A	OF N/A
☒ NYSDOT APPROVAL		3	OF 7
☐ OTHER:		N/A	OF N/A
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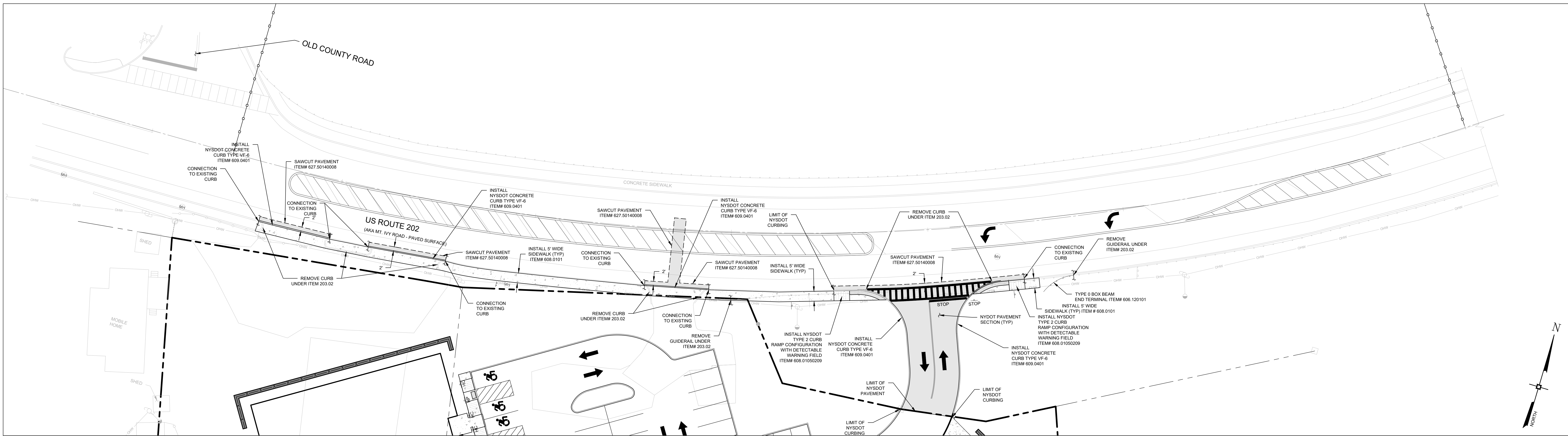
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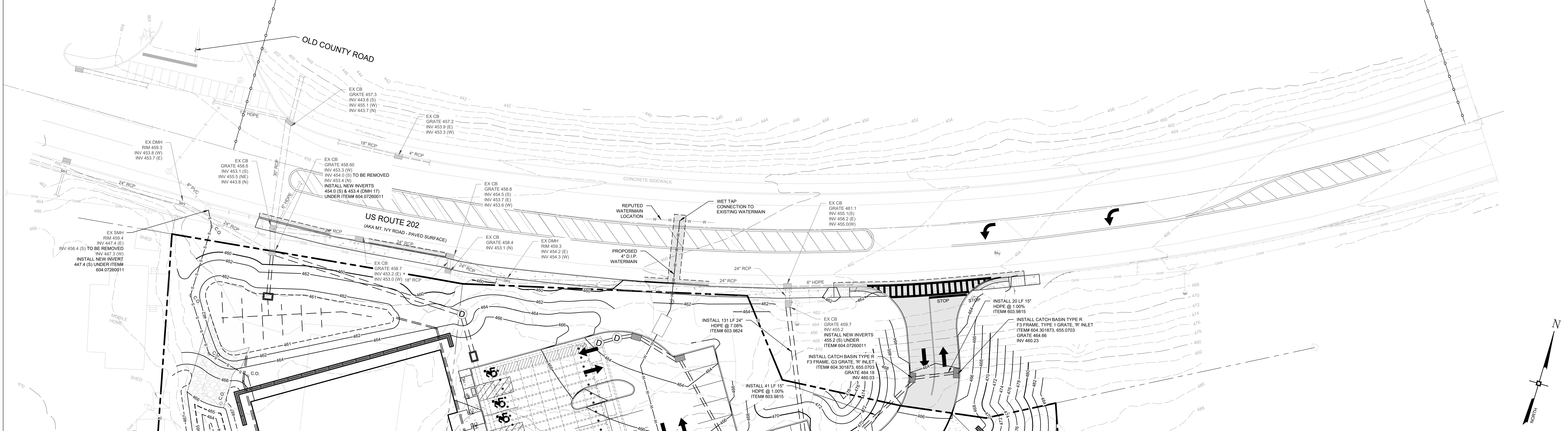
NYSDOT IMPROVEMENT PLANS

EASTGATE - HAVERSTRAW US ROUTE 202 TOWN OF HAVERSTRAW ROCKLAND COUNTY, NEW YORK

JOB #:	DRAWN BY:	
DATE: 1758.01	SCALE: 1" = 20'	C-105
05/05/2024	TAX LOT: 25.19-2.19 & 20	
REVISION: 14 - 01/23/2025		



NYSDOT IMPROVEMENTS PLAN VIEW
SCALE: 1" = 20'



LEGEND

	BUILDING LINE		ADJACENT PROPERTY LINE
	MAJOR CONTOUR LINE		EXISTING PROPERTY LINE
	MINOR CONTOUR LINE		EXISTING BUILDING LINE
	EDGE OF PAVEMENT LINE		EXISTING CURB LINE
	CURB LINE		EXISTING EDGE OF PAVEMENT LINE
	RETAINING WALL LINES		EXISTING STOCKADE FENCE LINES
	CONCRETE PAD LINE		EXISTING CHAINLINK FENCE LINES
	CONCRETE HATCH		EXISTING EDGE OF SIDEWALK LINES
	EDGE OF SIDEWALK LINES		OVERHEAD WIRE
	EASEMENT LINE		EXISTING GUIDELINE LINES
	STORM DRAIN LINES		EXISTING STRIPING LINES
	SEWER MAIN LINES		EXISTING STORM DRAIN LINES
	WATER MAIN LINES		EXISTING MAJOR CONTOUR LINE
	DRAINAGE SWALE		EXISTING MINOR CONTOUR LINE
	LIMIT OF GRADING LINE		EXISTING SEWER MAIN LINES
	EDGE OF PAVEMENT WITH CURB		EXISTING WATER MAIN LINES

NYSDOT GRADING & DRAINAGE PLAN VIEW
SCALE: 1" = 20'

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☒	PLANNING BOARD APPROVAL	8	OF 16
☐	RCDOH REALTY SUBDIVISION APPROVAL	N/A	OF N/A
☐	RCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF N/A
☐	NYSDOT APPROVAL	N/A	OF N/A
☐	OTHER:	4	OF 7
☐	FOR BID / CONSTRUCTION	N/A	OF N/A

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JAY SAMUELSON, P.E.
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1 inch = 20 ft.

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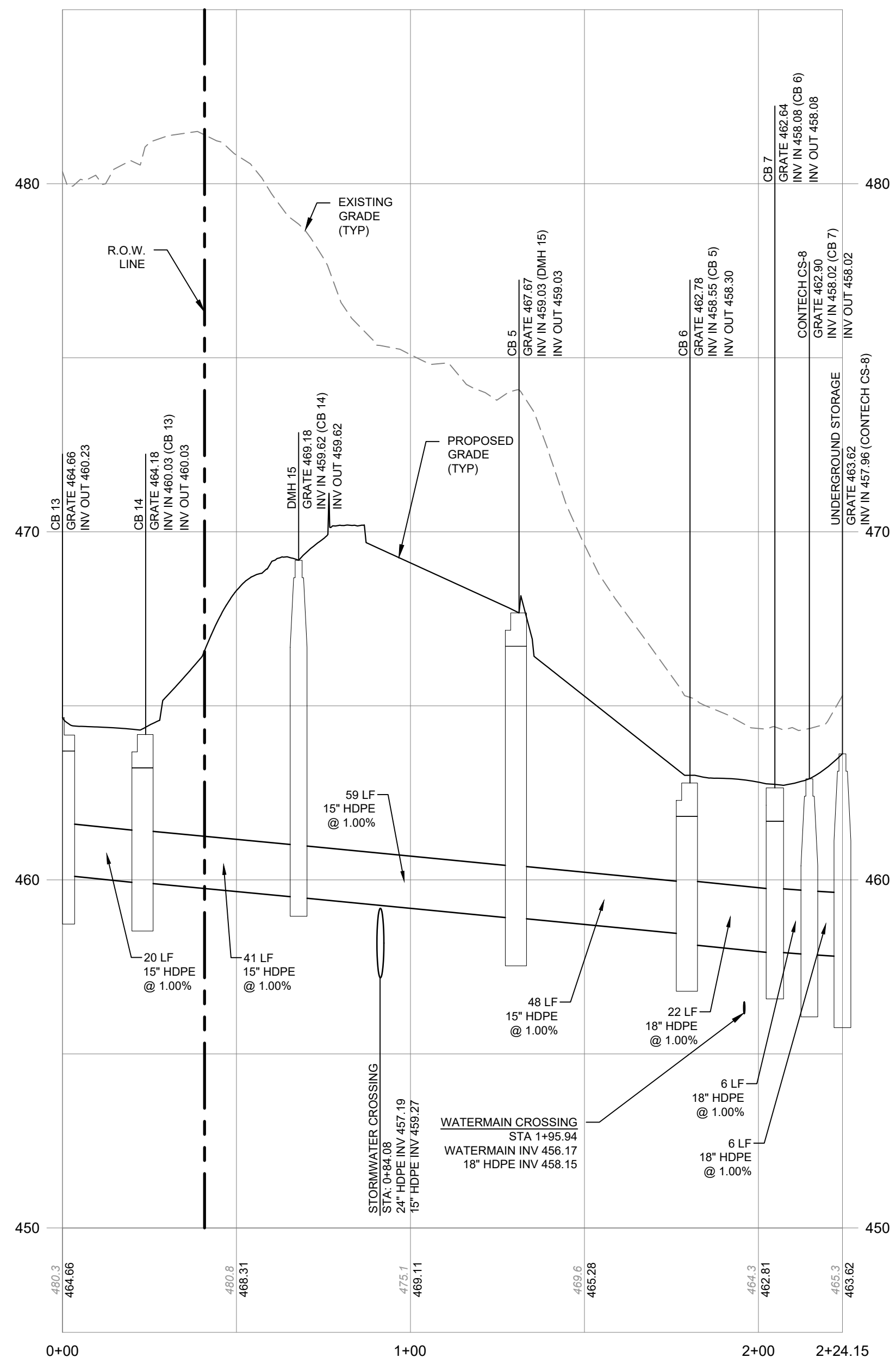
NYSDOT IMPROVEMENT PLANS

EASTGATE - HAVERSTRAW
US ROUTE 202
TOWN OF HAVERSTRAW
ROCKLAND COUNTY, NEW YORK

JOB #: 1758.01
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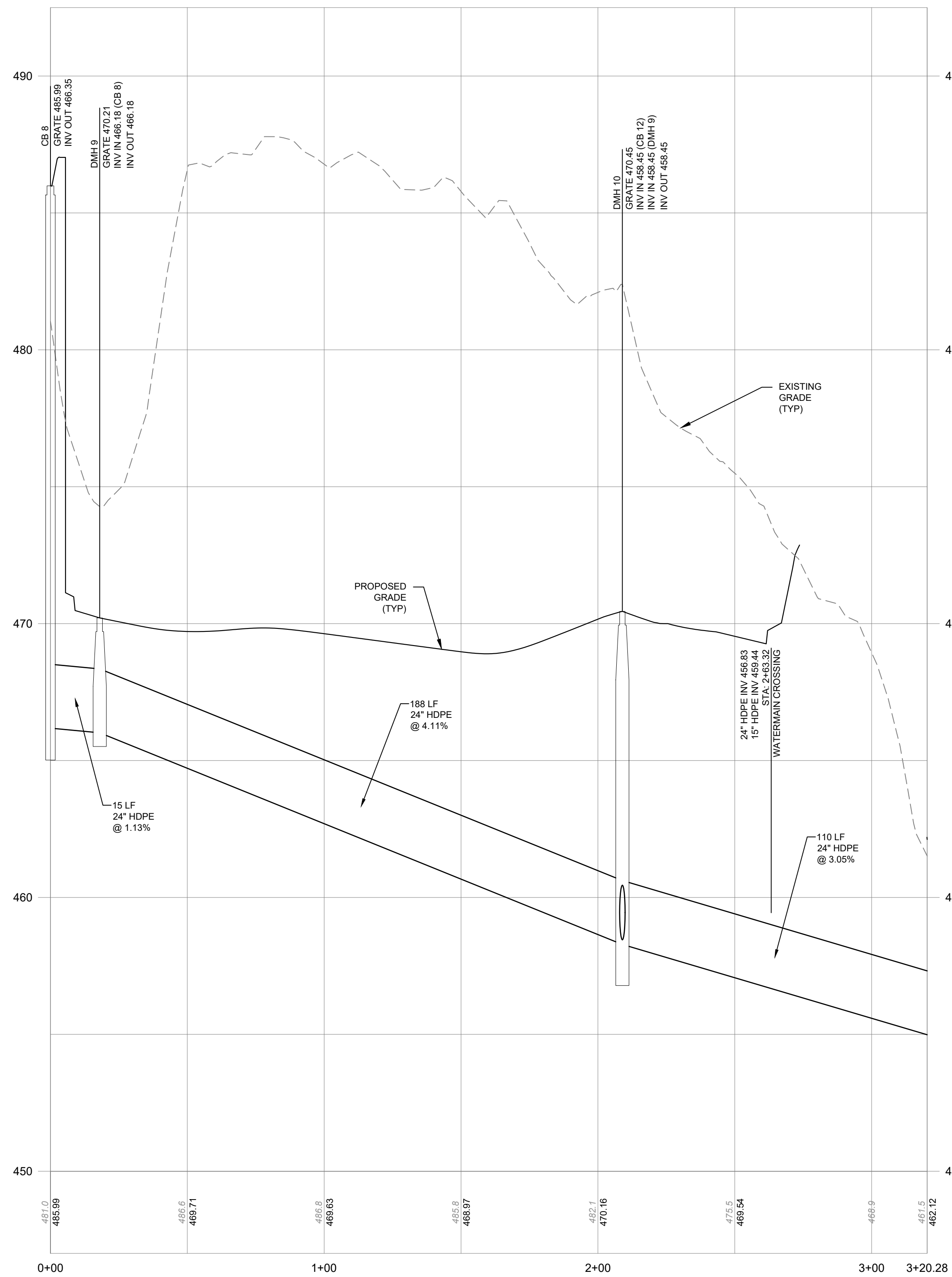
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SCALE: 1" = 20'
TAX LOT: 25.19-2.19 & 20

C-106



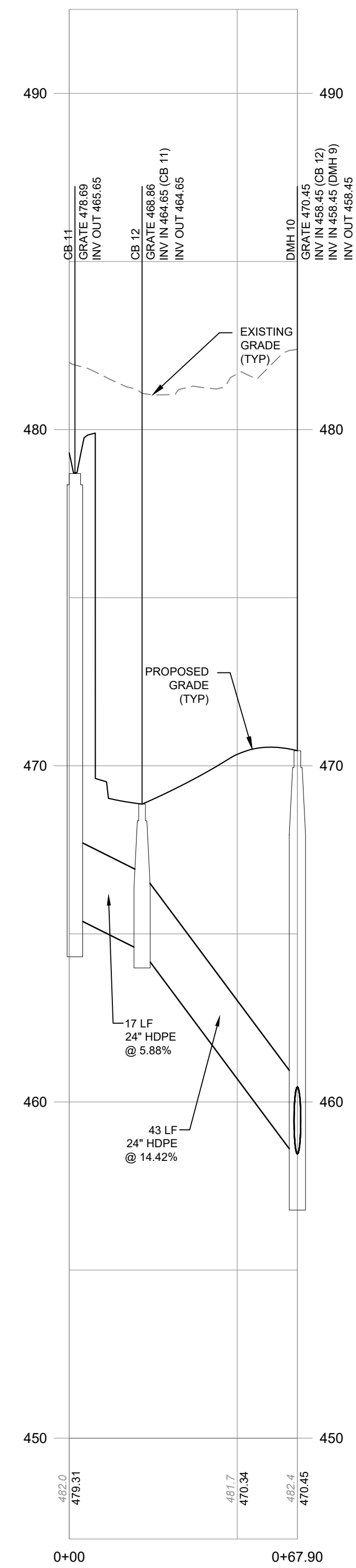
CB 13 TO UNDERGROUND STORAGE

SCALE: 1" = 20' H | 1" = 2' V



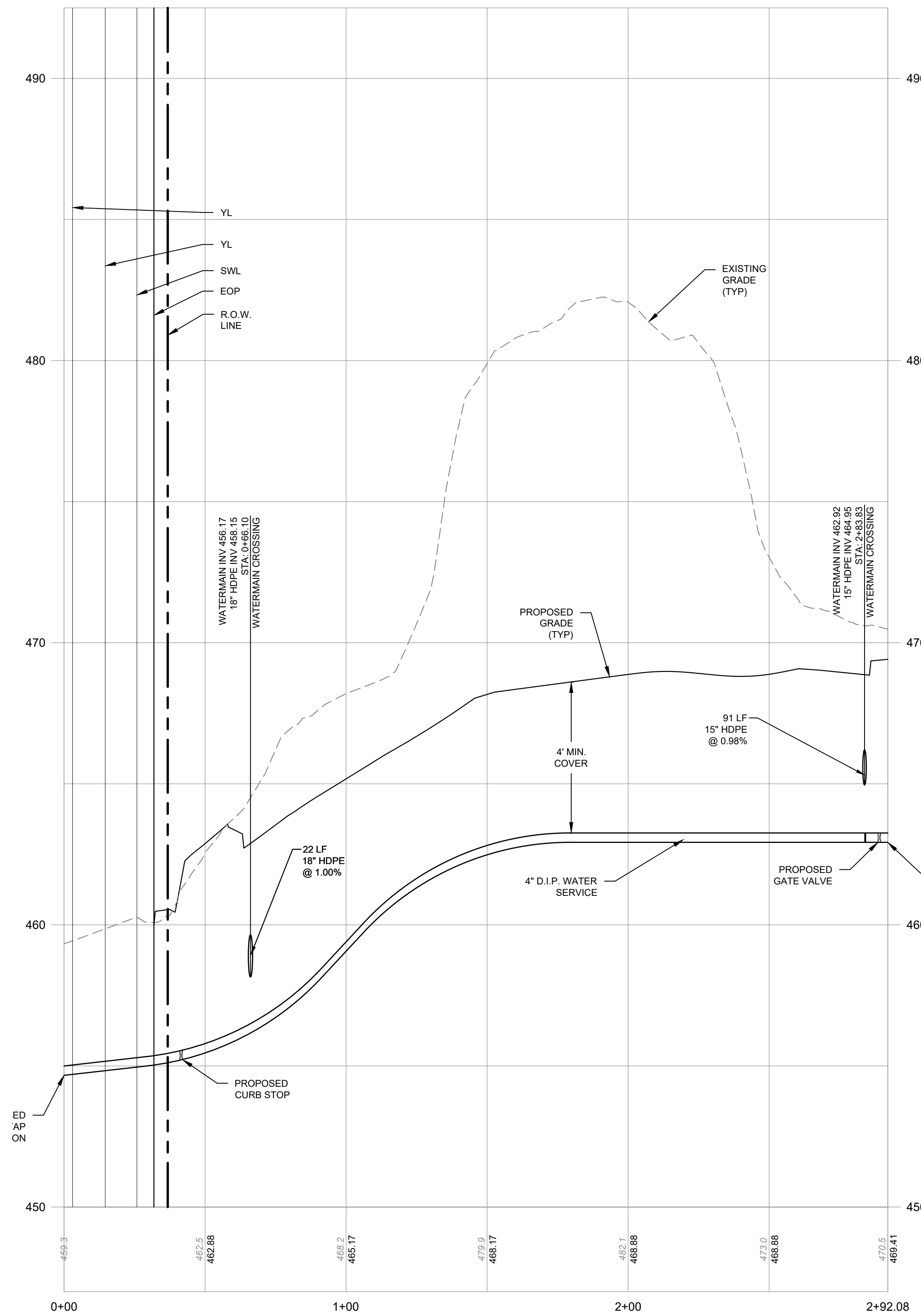
CB 8 TO EXISTING CATCH BASIN

SCALE: 1" = 20' H | 1" = 2' V



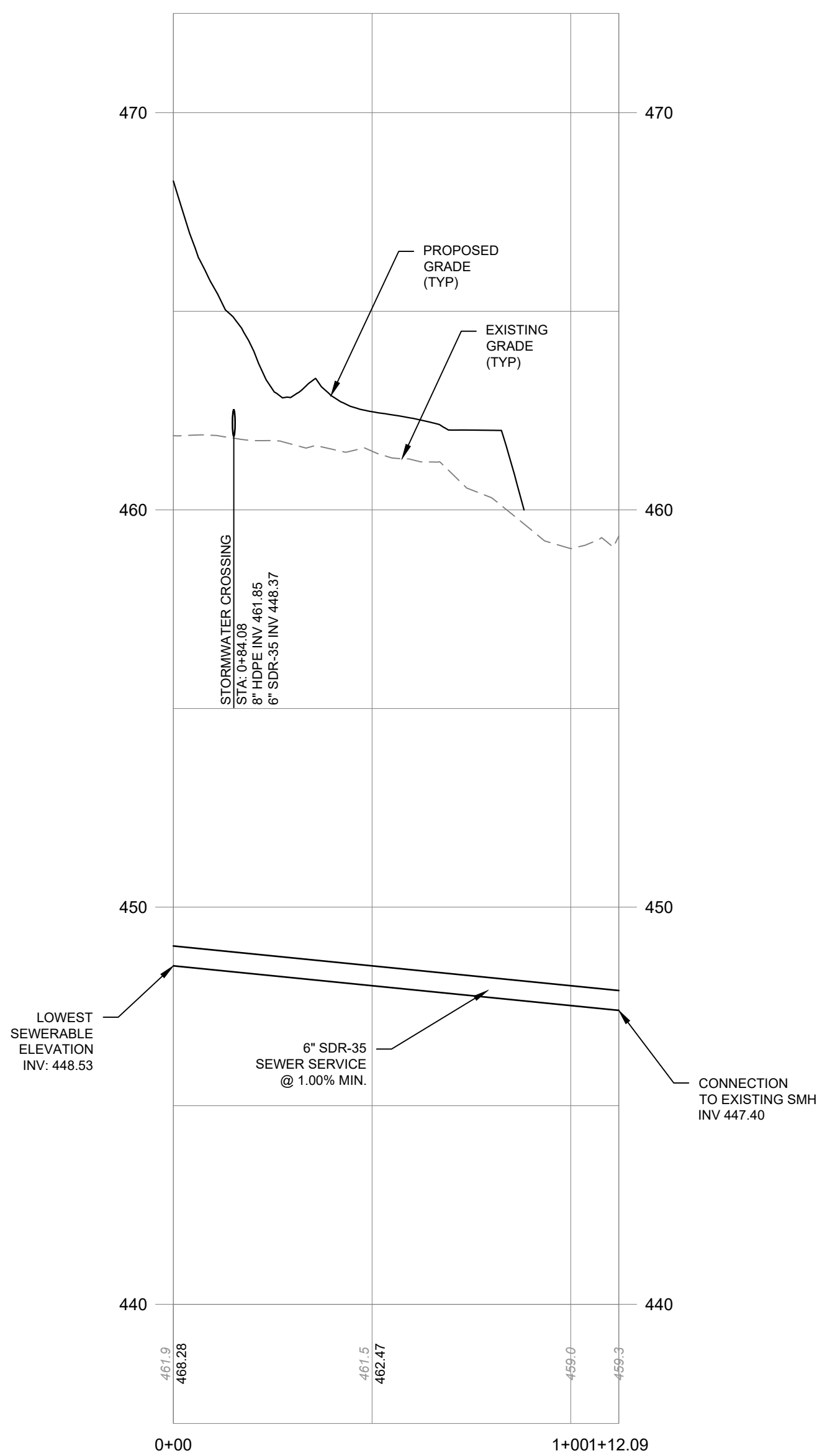
CB 11 TO DMH 10

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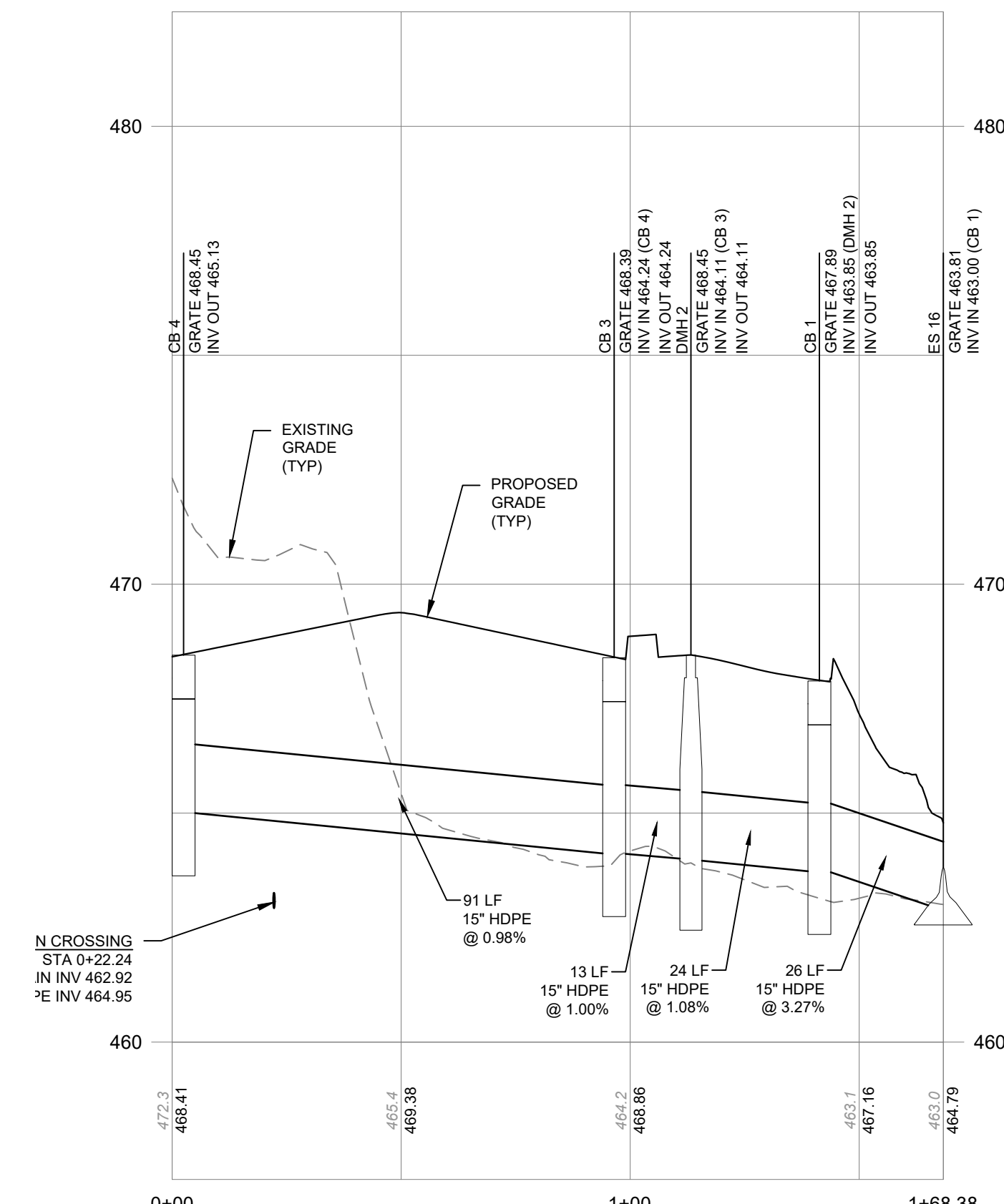
WATER SERVICE PROFILE

SCALE: 1" = 20' H | 1" = 2' V



SEWER SERVICE PROFILE

SCALE: 1" = 20' H | 1" = 2' V



CB 4 TO ES 16

SCALE: 1" = 20' H | 1" = 2' V

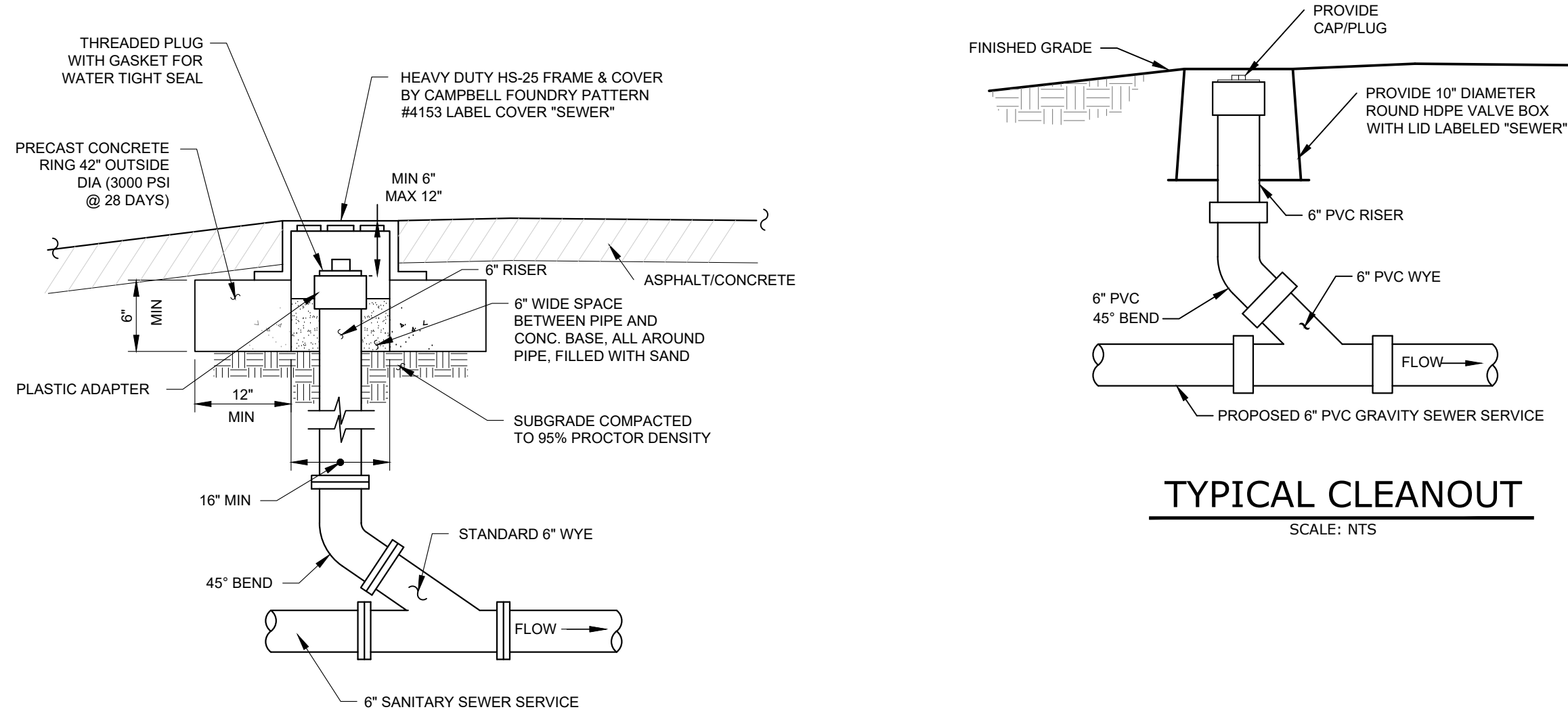
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☐ CONCEPT APPROVAL	N/A	OF N/A
☒ PLANNING BOARD APPROVAL	9	OF 16
☐ RCDOH REALTY SUBDIVISION APPROVAL	N/A	OF N/A
☐ RCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF N/A
☐ NYSDEC APPROVAL	N/A	OF N/A
☒ NYSDOT APPROVAL	5	OF 7
☐ OTHER:	N/A	OF N/A
☐ FOR BID / CONSTRUCTION	N/A	OF N/A

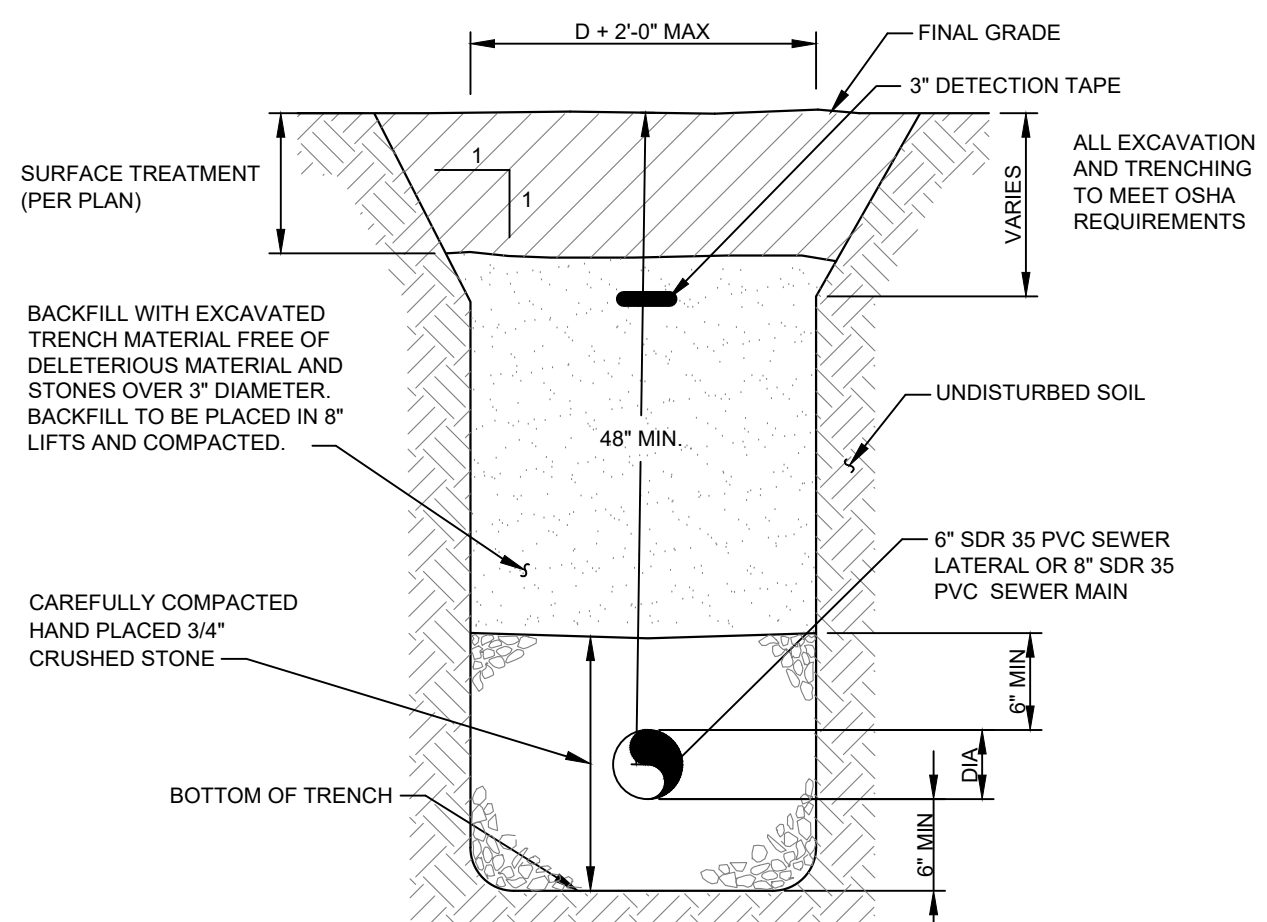
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0 1 2 3 ORIGINAL SCALE IN INCHES	

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UTILITY PROFILES			
EASTGATE - HAVERSTRAW US ROUTE 202 TOWN OF HAVERSTRAW ROCKLAND COUNTY, NEW YORK			
JOB #:	1758.01	DRAWN BY:	ZS
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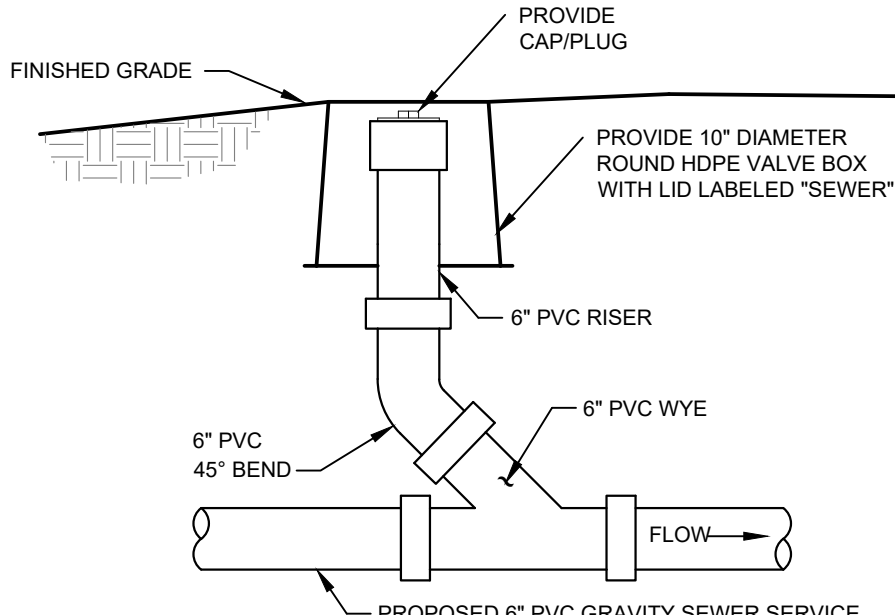
**TYPICAL CLEANOUT
IN PAVED AREA**
SCALE: NTS



SEWER PIPE TRENCH
SCALE: NTS

SEWER NOTES

- THE SANITARY SEWER MAIN INSTALLATION SHALL BE INSPECTED BY THE MUNICIPAL SEWER INSPECTOR AND A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK AND SHALL BE CERTIFIED TO THE ROCKLAND COUNTY HEALTH DEPARTMENT. THE TOWN OF HAVERSTRAW SEWER INSPECTOR AND THE JOINT REGIONAL SEWERAGE BOARD THAT THE IMPROVEMENTS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DESIGN PLANS, CODE REQUIREMENTS AND JOINT REGIONAL SEWERAGE BOARD STANDARDS.
- FINAL AS-BUILTS AND CERTIFIED TESTING RESULTS OF THE SEWER SYSTEM SHALL BE SUPPLIED TO THE ROCKLAND COUNTY HEALTH DEPARTMENT, THE TOWN OF HAVERSTRAW AND THE JOINT REGIONAL SEWERAGE BOARD UPON COMPLETION.
- ANY EXCAVATION WORK WITHIN CLOSE PROXIMITY TO ANY OF THE JOINT REGIONAL SEWERAGE BOARD EASEMENT(S), THE ROCKLAND COUNTY SEWER DISTRICT SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE.
- ALL GRAVITY SEWER PIPE SHALL BE SDR 35 PVC.
- IF GROUNDWATER IS ENCOUNTERED DURING TRENCH EXCAVATION, THE CONTRACTOR SHALL DEWATER THE TRENCH PRIOR TO INSTALLATION. ALL DEWATERING OPERATIONS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO VERIFY INVERT ELEVATIONS OF EXISTING SEWER MAIN PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR SHALL CALL THE VILLAGE SEWER DEPARTMENT AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF SEWERS.
- CONTRACTOR SHALL CALL UNDERGROUND MARKOUT AT 811 OR 1-800-962-7962 AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF SEWERS FOR COMPLETE UTILITY MARKOUT.
- ALL MANHOLES SHALL BE SUCCESSFULLY VACUUM TESTED PRIOR TO BEING ACCEPTED BY THE JOINT REGIONAL SEWERAGE BOARD. SPECIFIC TESTING PROCEDURES SHALL BE OBTAINED FROM THE TOWN OF HAVERSTRAW DEPARTMENT OF PUBLIC WORKS AND THE JOINT REGIONAL SEWERAGE BOARD.
- SEWER AND WATER SERVICE LINES SHALL BE LAID IN SEPARATE TRENCHES WITHIN A MINIMUM SEPARATION OF 10 FEET.
- SANITARY SEWER INFILTRATION LIMIT IS 25 GALLONS PER INCH DIAMETER PER MILE PER DAY. CERTIFICATES OF OCCUPANCY MAY NOT BE REQUESTED, NOR ANY OCCUPANCY PERMITTED, UNTIL A CERTIFICATE OF COMPLIANCE, CERTIFIED BY A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER, IS SUBMITTED TO AND APPROVED BY THE TOWN OF HAVERSTRAW AND JRBS. COPIES OF THIS CERTIFICATE SHOULD ALSO BE SENT TO THE ROCKLAND COUNTY DEPARTMENT OF HEALTH AND JRBS.
- ALL SANITARY SEWER CONSTRUCTION TO MEET CURRENT TOWN OF HAVERSTRAW AND JRBS STANDARDS. IF STANDARDS CONTRADICT THE STRICTER SHALL APPLY.
- ALL MANHOLES TO BE VACUUM TESTED AS REQUIRED BY THE TOWN OF HAVERSTRAW AND JRBS.
- ROCKLAND COUNTY DEPARTMENT OF HEALTH (RCDOH) APPROVAL IS LIMITED TO 5 YEARS FROM THE DATE OF RCDOH APPROVAL. TIME EXTENSIONS MAY BE GRANTED BY THE RCDOH BASED UPON DEVELOPMENT FACTS AND THE REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.
- AS-BUILT SANITARY SEWER AND WATER MAIN DRAWINGS (PLAN AND PROFILE) ARE TO BE SUBMITTED TO THE RCDOH AND JOINT REGIONAL SEWERAGE BOARD FOR REVIEW AND ACCEPTANCE UPON COMPLETION OF THE INSTALLATION OF IMPROVEMENTS.

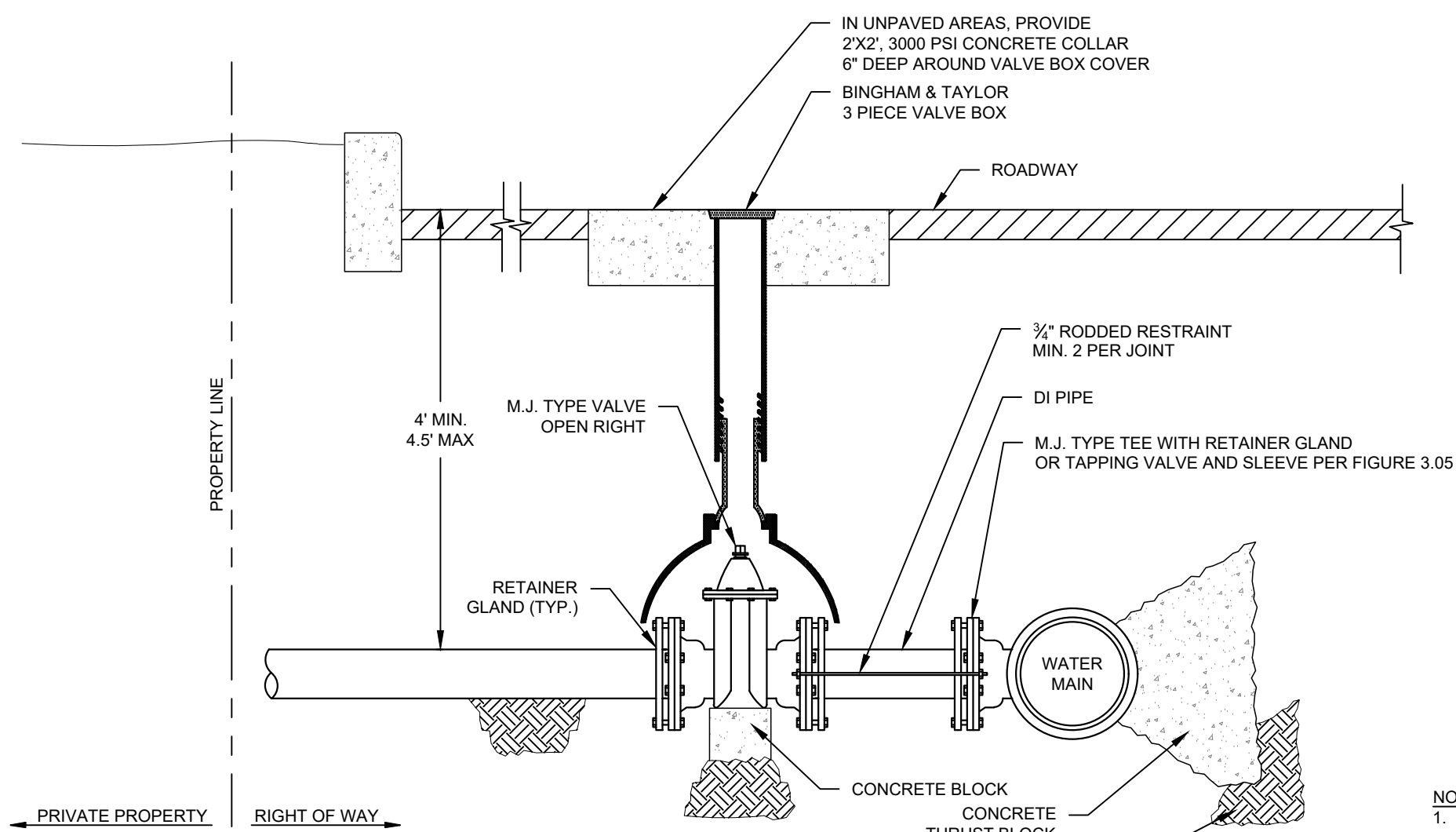


TYPICAL CLEANOUT
SCALE: NTS

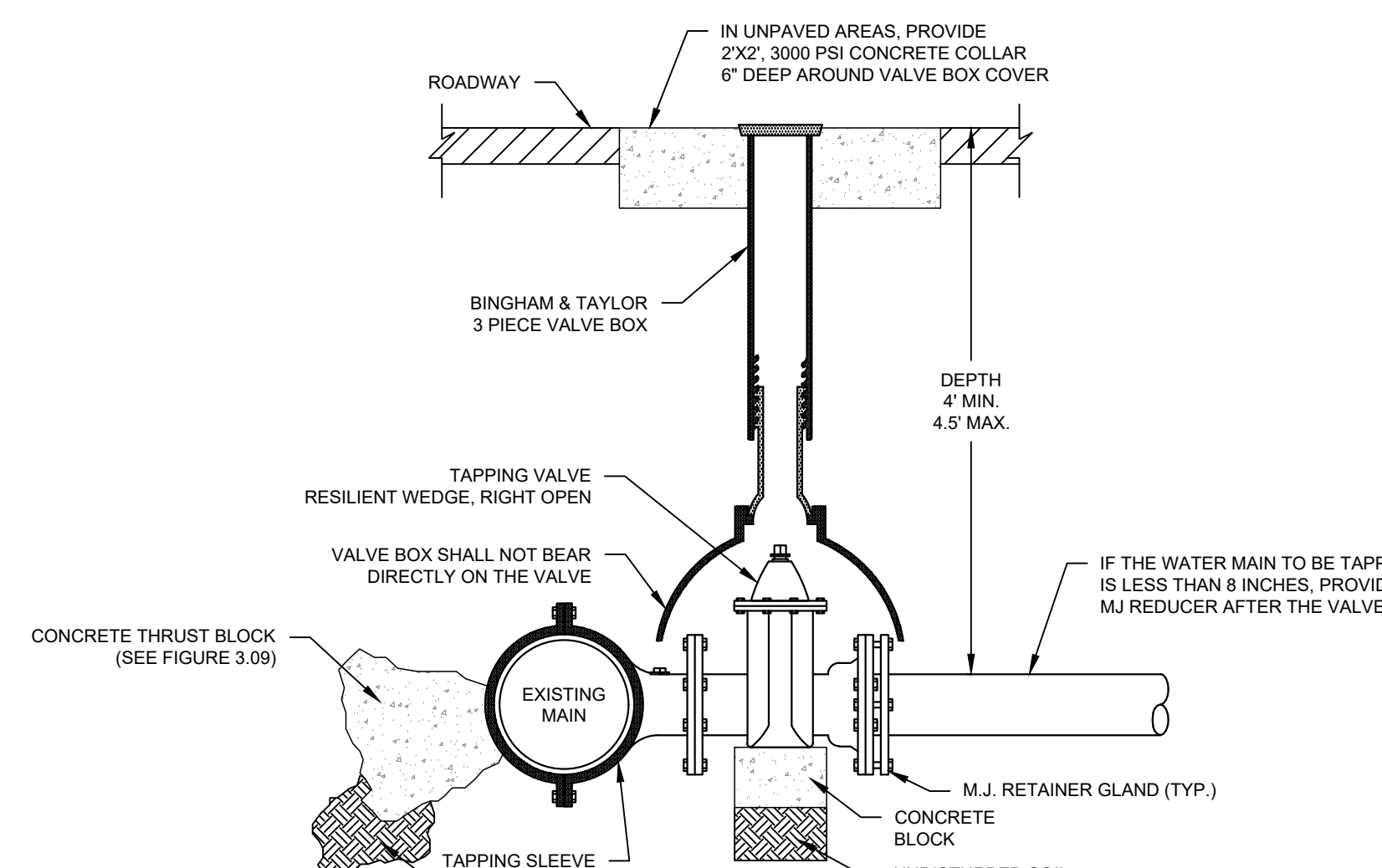
NOT FOR VEOLIA WATER APPROVAL

NOT FOR VEOLIA WATER APPROVAL

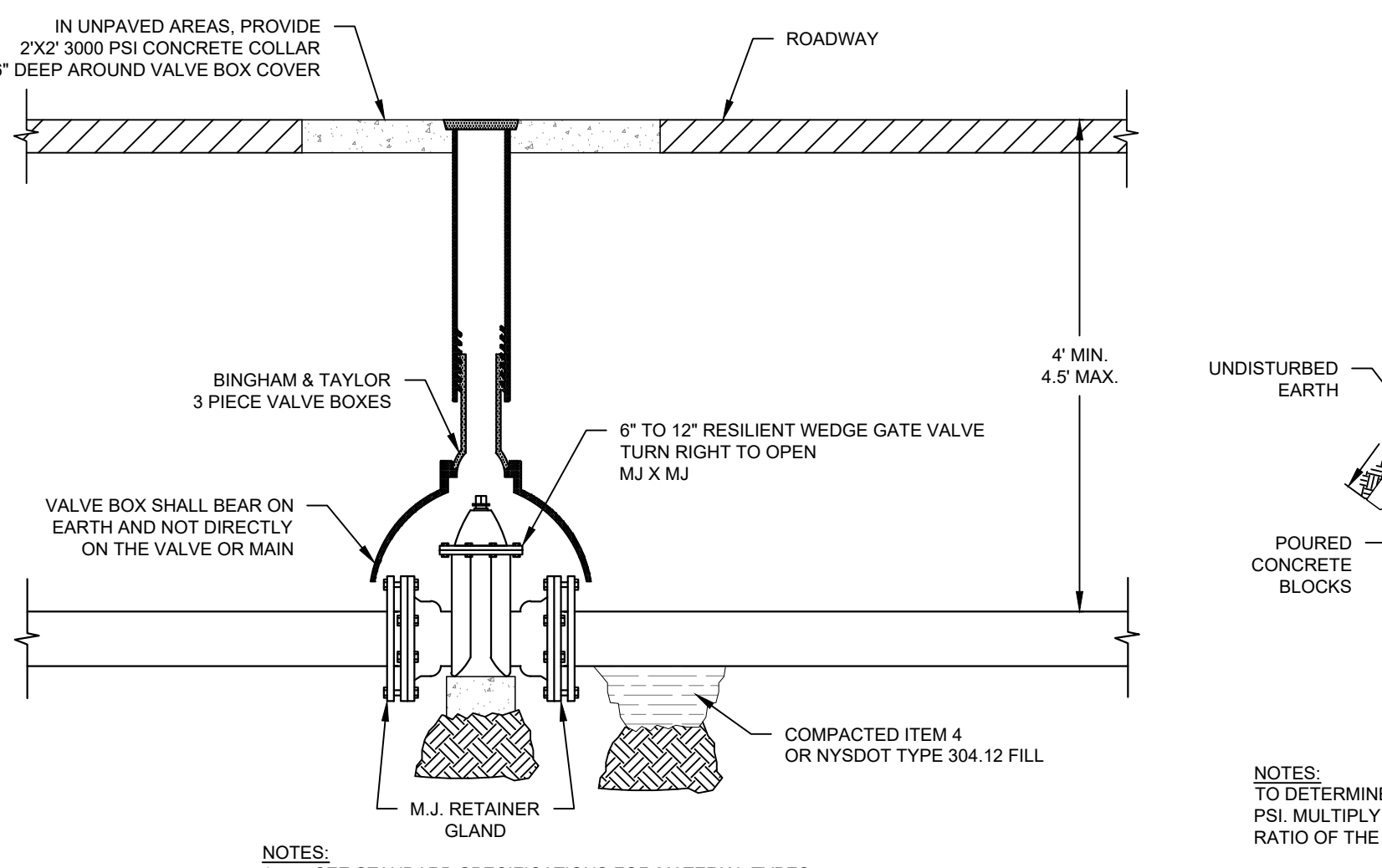
NOT FOR VEOLIA WATER APPROVAL



4" AND LARGER SERVICE CONNECTION
DETAIL PROVIDED BY VEOLIA WATER NEW YORK (FIG 3.04)
SCALE: N.T.S.



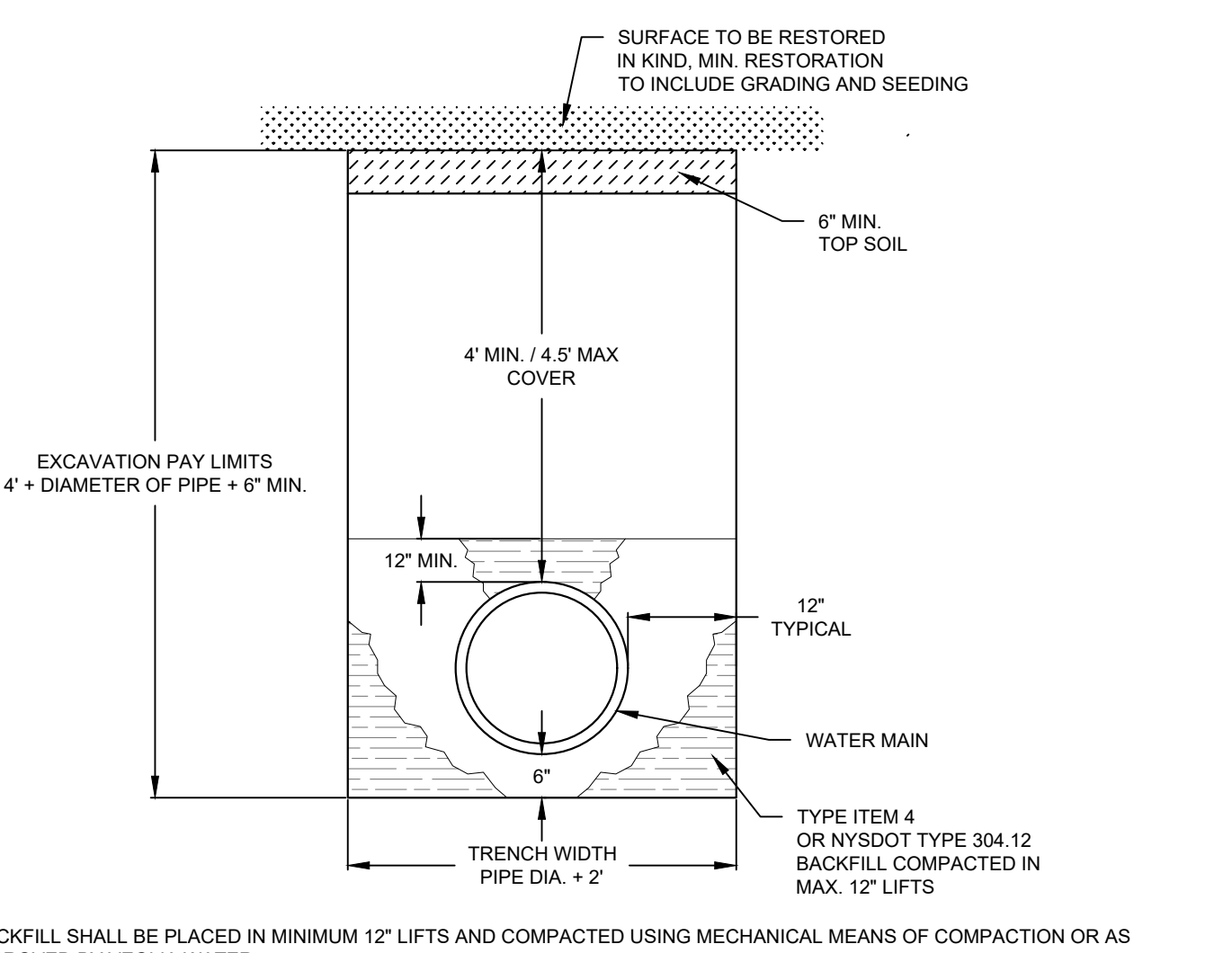
TAPPING EXISTING WATER MAIN
DETAIL PROVIDED BY VEOLIA WATER NEW YORK (FIG 3.05)
SCALE: N.T.S.



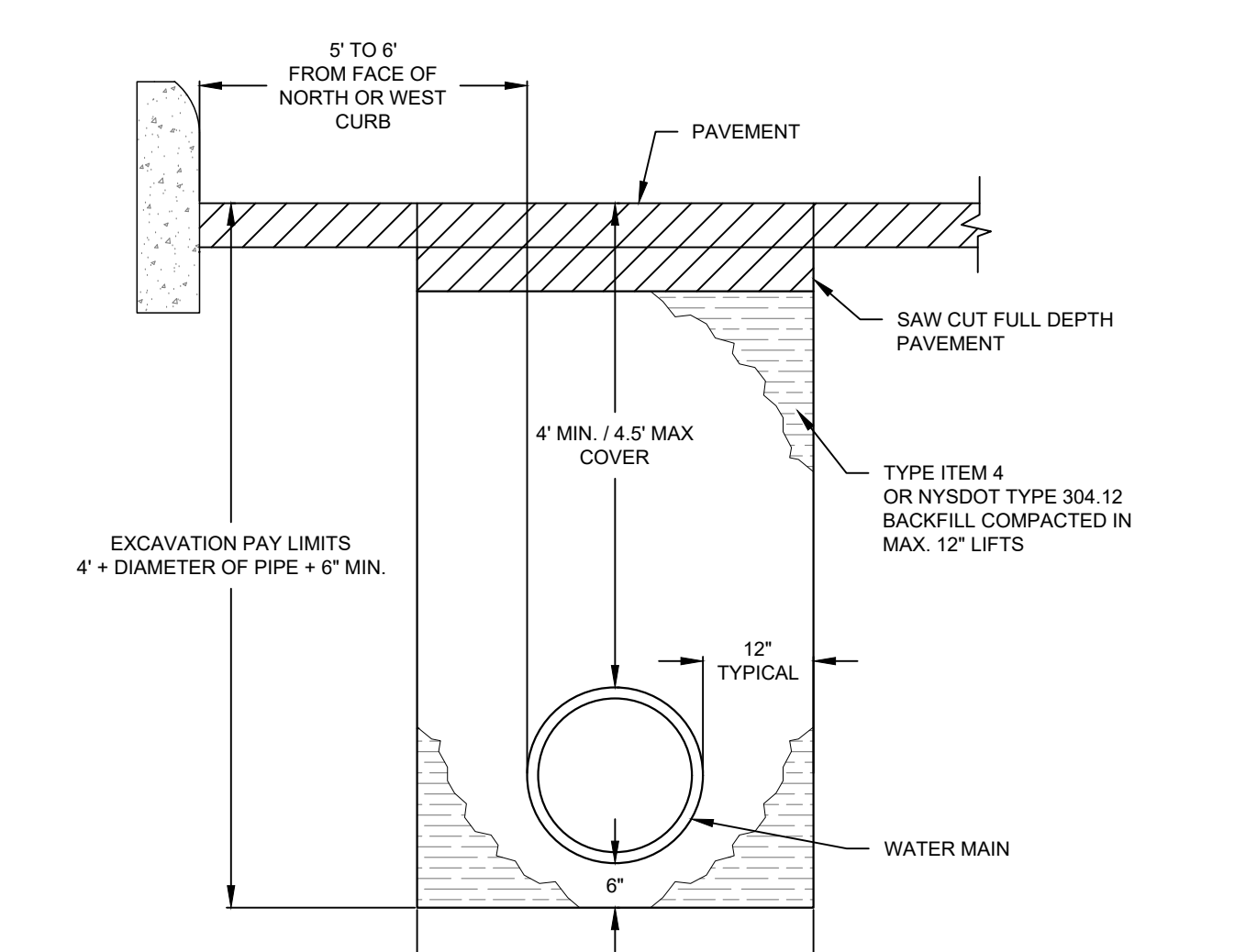
IN-LINE GATE VALVE
DETAIL PROVIDED BY VEOLIA WATER NEW YORK (FIG 3.08)
SCALE: N.T.S.

WATER SYSTEM NOTES

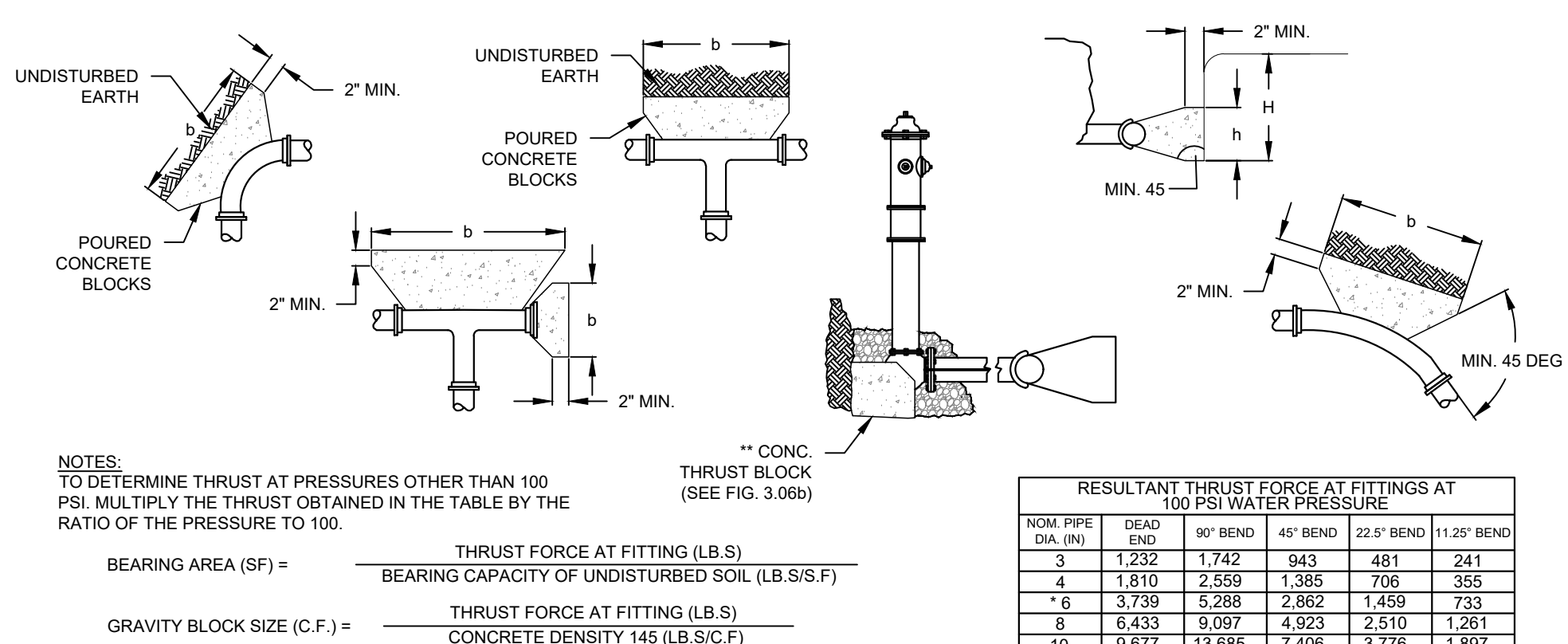
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING WATER AND SEWER UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR TO CALL UNDERGROUND MARK-OUT AT LEAST 2 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION AT 1-800-962-7962 FOR COMPLETE UTILITIES MARKOUT.
- CONTRACTOR TO CONTACT VEOLIA WATER NEW YORK AT (877) 426-8969 AT LEAST 2 DAYS PRIOR TO CONSTRUCTION.
- WATER MAIN 4" OR LARGER TO BE CLASS 54 BITUMINOUS COATED DOUBLE CEMENT LINED DUCTILE IRON PIPE.
- CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY OF ANY DEVIATION FROM HORIZONTAL OR VERTICAL ALIGNMENTS WITH REGARDS TO EXISTING UTILITIES BEFORE PROCEEDING.
- A CERTIFIED AS BUILT MAP OF THE WATER SYSTEM IMPROVEMENTS SHALL BE PROVIDED TO THE VEOLIA WATER NEW YORK BY A LICENSED DESIGN PROFESSIONAL.
- ALL PIPE, FITTINGS AND FITTINGS MUST COMPLY WITH THE FEDERAL "SAFE DRINKING WATER ACT", SECTION 1417 WHICH REQUIRES ALL SURFACES IN CONTACT WITH POTABLE WATER CONTAIN NO MORE THAN 0.25% LEAD BY WEIGHT.
- VEOLIA WATER NEW YORK MUST ACCEPT HYDROSTATIC AND BACTERIOLOGICAL TEST RESULTS AS ADEQUATE.



WATER MAIN TRENCH IN UNPAVED AREAS
DETAIL PROVIDED BY VEOLIA WATER NEW YORK (FIG 3.11)
SCALE: N.T.S.



WATER MAIN TRENCH WITHIN ROADWAY
DETAIL PROVIDED BY VEOLIA WATER NEW YORK (FIG 3.12)
SCALE: N.T.S.



TYPICAL THRUST BLOCKING
DETAIL PROVIDED BY VEOLIA WATER NEW YORK (FIG 3.09)
SCALE: N.T.S.

No.	DATE	DESCRIPTION
1	07/15/22	REVISED FOR SUBMISSION TO PB
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3	10/21/22	REVISED FOR SUBMISSION TO PB
4	04/18/23	REVISED FOR RCDOH COMMENTS
5	08/21/23	REVISED FOR SUBMISSION TO PB
6	10/04/23	REVISED PER WORKSHOP COMMENTS
7	11/22/23	REVISED FOR PB WORKSHOP
8	01/11/24	REVISED FOR PB & ZBA SUBMISSION
9	06/11/24	REVISED LAYOUT PER CLIENT COMMENTS
10	07/23/24	REVISED FOR PB SUBMISSION
11	10/16/24	REVISED FOR PB SUBMISSION
12	11/04/24	REVISED FOR PB SUBMISSION
13	12/11/24	REVISED FOR PB SUBMISSION
14	01/23/25	REVISED FOR OUTSIDE AGENCY SUBMISSIONS

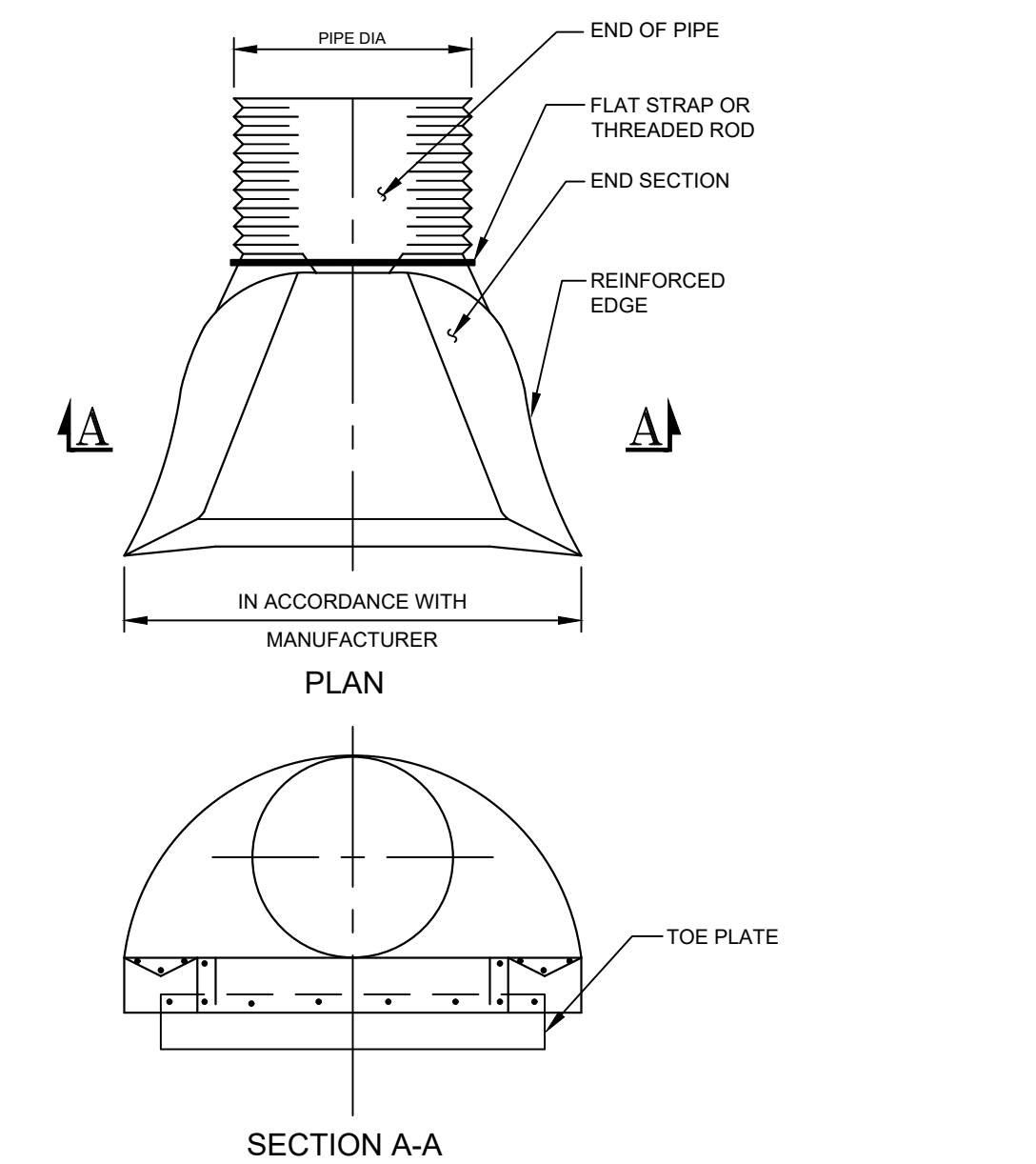
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	NUMBER	
☒	CONCEPT APPROVAL	N/A OF N/A
☒	PLANNING BOARD APPROVAL	10 OF 16
☒	RCDOH REALTY SUBDIVISION APPROVAL	N/A OF N/A
☒	RCDOH WATERMAIN EXTENSION APPROVAL	N/A OF N/A
☒	NYSDEC APPROVAL	N/A OF N/A
☒	NYSDOT APPROVAL	N/A OF 7
☐	OTHER:	
☐	FOR BID / CONSTRUCTION	N/A OF N/A

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JAY SAMUELSON, P.E. NEW YORK LICENSE # 080923	
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0	1	2	3
ORIGINAL SCALE IN INCHES			

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TOWN OF HAVERSTRAW			
ROCKLAND COUNTY, NEW YORK			
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PROPOSED LAYOUT

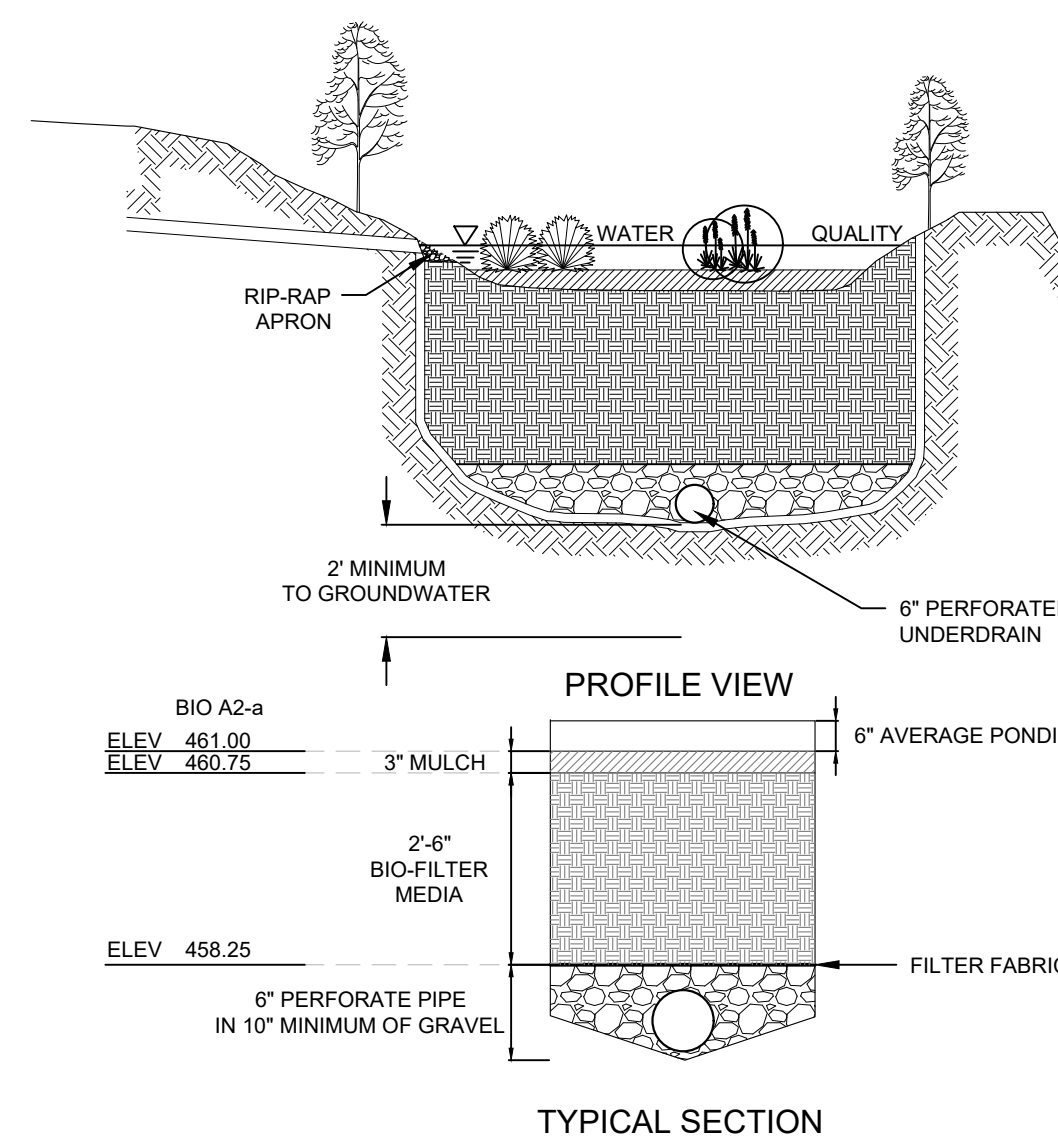
80	STORM/STCE-SC-740 CHAMBERS
20	STORM/STCE-SC-740 END CAPS
10	STONE ANCHOR (IN)
60	STONE BELOW (IN)
40	1% STONE WEDGE
7362	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
3926	SYSTEM AREA (IN ²)
247	SYSTEM PERIMETER (IN)

PROPOSED ELEVATIONS

465.50	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
465.00	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
465.00	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
462.50	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
462.50	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
461.00	TOP OF STONE
460.50	TOP OF SC-740 CHAMBER
460.50	12" BOTTOM MANHOLE INVERT
458.01	24" ISOLATOR ROW CONNECTION INVERT
458.00	TOP OF SC-740 CHAMBER
457.50	BOTTOM OF STONE

TEST HOLE #	DATE	SURFACE ELEVATION	DEPTH	DESCRIPTION
INF 01	10/25/2023	459.74	0' - 12" 12' - 7.5'	TOPSOIL/CHIPPED ASPHALT SANDY SILT LOAM WITH COBBLE GROUNDWATER @ 6.75'

1. THE AREA OF THE BIO-RETENTION SHALL BE ROUGH GRADED AND PROTECTED BY SILT FENCE DURING CONSTRUCTION.
2. THE FILTER MEDIA SHALL NOT BE INSTALLED UNTIL THE FINAL STAGES OF CONSTRUCTION
3. ANY SILT LOCATED IN THE ROUGH GRADED BIO-RETENTION AREA SHALL BE REMOVED PRIOR TO INSTALLATION OF THE FILTER MEDIA.



SCALE: NTS

PLAN VIEW

DIMENSION "D"

DIMENSION "C"

DIMENSION "D"

NYSDOT 655-02
PARALLEL BAR FRAME
MODEL NO. F3

PRECAST CONCRETE
OR APPROVED EQUAL

ALUMINUM STEP (CONTINUOUS
FROM TOP OF MANHOLE) - SEE
CATCH BASIN STEP DETAIL

HDP E OUTLET
PIPE

4" POND
DRAIN

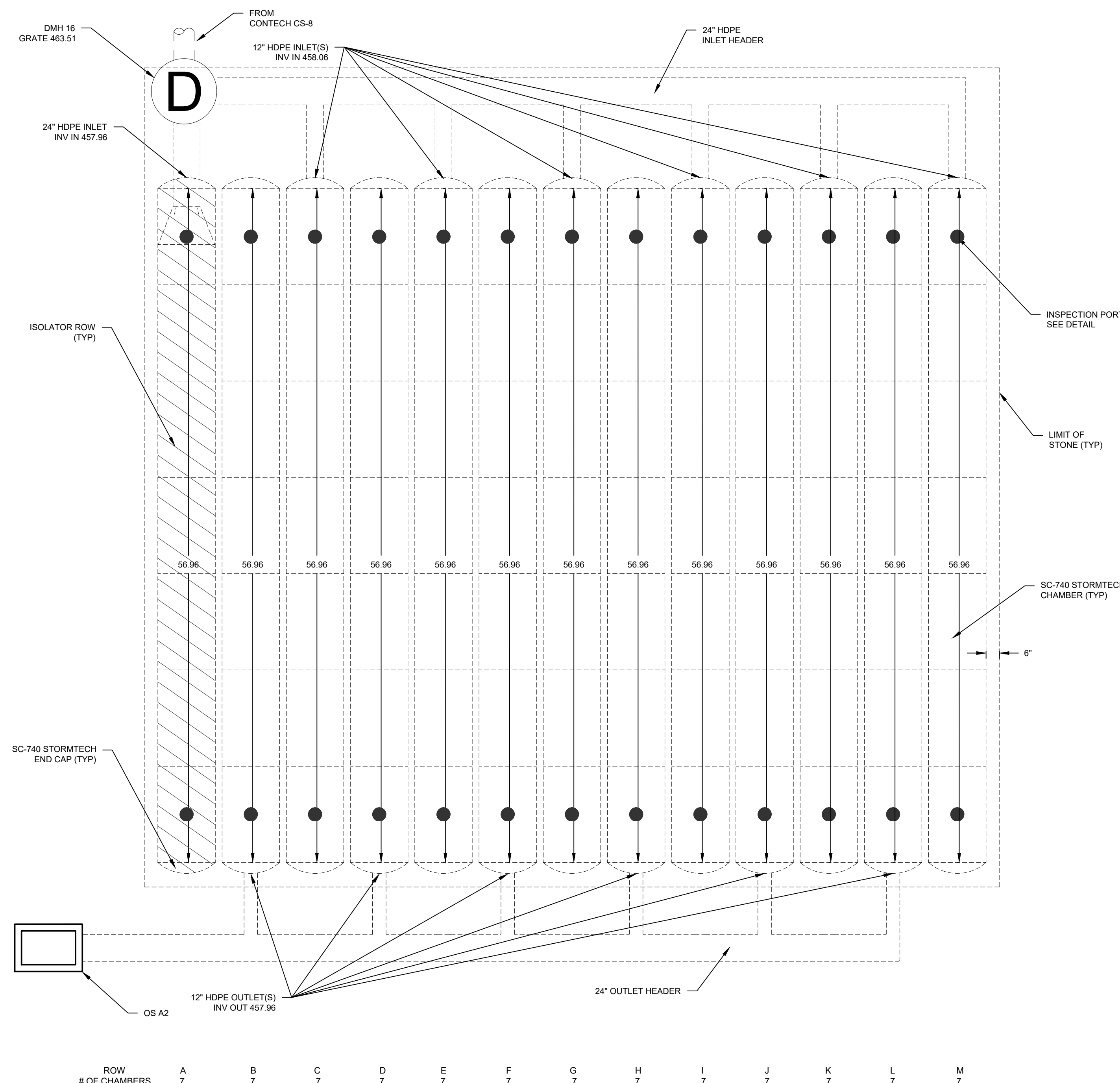
ELEV A

ELEV B

DIMENSION "C"

4" CRUSHED STONE

SECTION A-A			SECTION B-B	
POND	ELEV A	ELEV B	DIM "C" (WIDTH)	DIM "D" (LENGTH)
A2-LOWER	457.75	460.50	30'	48'
NOTES: 1. FOR LENGTH AND SLOPE OF OUTLET PIPE SEE PLAN.				



SCALE: N.T.S.

PLAN VIEW

SECTION A-A

SECTION B-B

POND	ELEV A	ELEV B	ELEV C	ELEV D	ELEV E	DIM "C" (WIDTH)	DIM "D" (LENGTH)
A2-LOWER	458.00	458.50 (3")	459.00 (8")	460.00	467.70	30"	48"

NOTES:
1. FOR LENGTH AND SLOPE OF OUTLET PIPE SEE PLAN.

OS-2 UNDERGROUND DETENTION OUTLET CONTROL STRUCTURE

SCALE: NTS

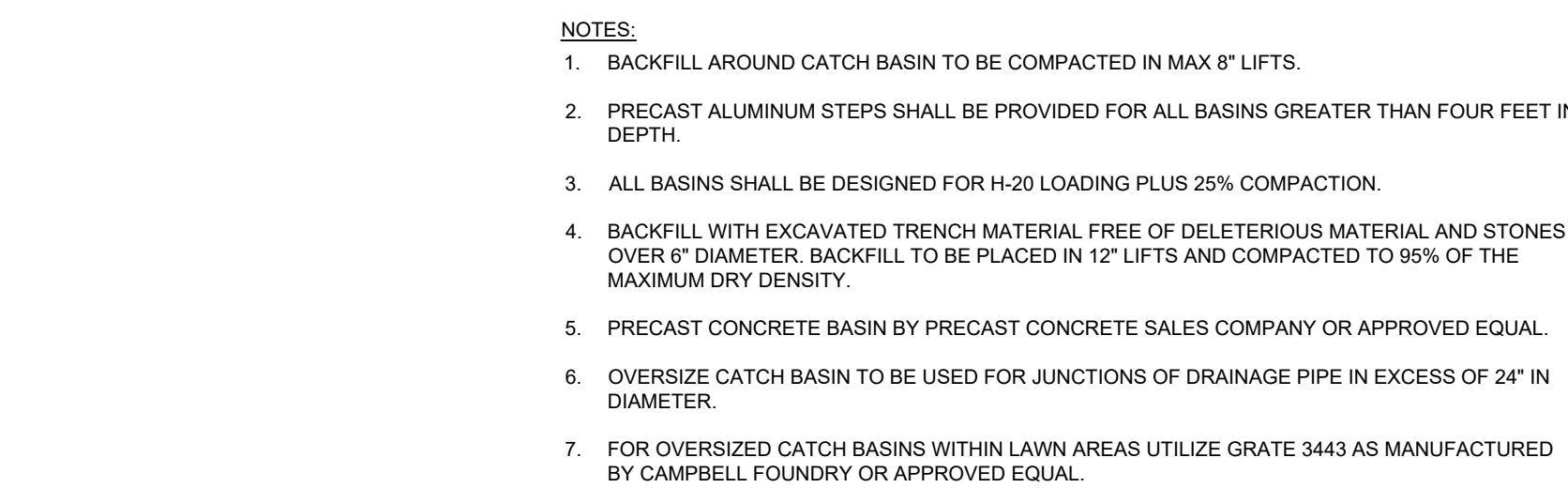


Diagram illustrating the cross-section of a trench, showing the following components and labels:

- SCALE: NTS** (Not To Scale)
- FINAL GRADE**: The top surface of the trench.
- VARIABLES**: Indicated by a vertical double-headed arrow labeled "VARIES".
- SURFACE TREATMENT (AS PER PLAN)**: The layer immediately below the final grade.
- BACKFILL TO BE PLACED IN 8" LIFTS AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY DETERMINED BY ASTM D1537**: The main backfill material.
- 2'-0" MIN x DIA**: The diameter of the trench.
- STABLE UNDISTURBED SOIL**: The material surrounding the trench.
- BACKFILL WITH EXCAVATED TRENCH MATERIAL FREE OF DELETERIOUS MATERIAL AND STONES OVER 6" DIA (SEE NOTE 1)**: The material immediately adjacent to the trench walls.
- CLEAN 3/4" CRUSHED STONE**: The material at the bottom of the trench.
- DIA (AS PER PLAN)**: The diameter of the trench at the bottom.
- 6"**: The depth of the crushed stone layer.
- BOTTOM OF TRENCH**: The base of the excavation.

SCALE: NTS

GRADE AND/OR ORIGINAL SURFACE AS REQUIRED

ADJUST TO GRADE WITH BRICK OR CONC GRADING RINGS (1'-0" MAX)

FINISH GRADE TO DRAIN AWAY FROM MANHOLE

HEAVY DUTY CIRCULAR FLARED TYPE FRAME WITH ROUND FLANGE, CAMPBELL FOUNDRY NO 1004A OR APPROVED EQUAL

2'-0" DIA

1'-5" (TYP)

6"

STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC STEP (CONTINUOUS FROM TOP OF MANHOLE)

5'

4'-0"

5'

MANHOLE TO HAVE A BITUMINOUS COATING ON THE EXTERIOR

PRECAST REINFORCED CONCRETE MANHOLE CONE TOP

BUTYL RUBBER JOINT SEALANT (TYP)

WALL RISER SECTION(S) AS REQUIRED

STANDARD CIRCULAR OPENING

SOFFIT AT SAME ELEVATION

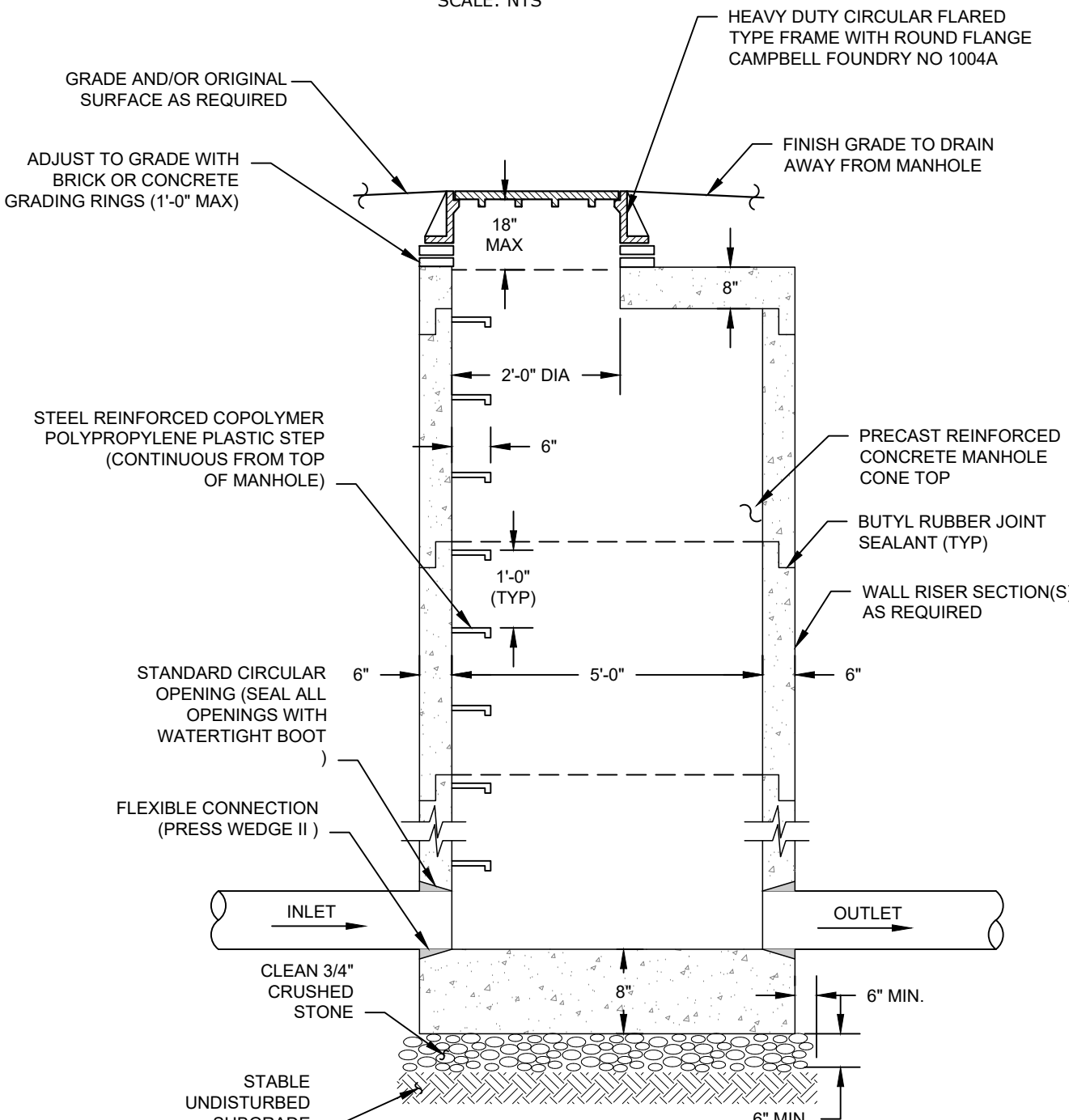
GROUT CONNECTION

6" CRUSHED STONE

STABLE UNDISTURBED SUBGRADE

NOTES:

1. CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
2. REINFORCEMENT TO BE IN CONFORMANCE WITH ASTM A615 GRADE 60 AND ASTM A185 GRADE 65.
3. CONTRACTOR TO ORDER MANHOLE SECTIONS FROM MANUFACTURER TO MATCH REQUIRED ELEVATIONS AND INVERTS PER PLAN.
4. MANHOLE CONSTRUCTION TO BE CAPABLE OF WITHSTANDING H-20 LOADINGS.
5. PRECAST CONCRETE MANHOLE COMPONENTS BY FORT MILLER OR EQUAL.



SCALE: N.T.S.

4" PVC UNDER

PLAN VIEW

CAST IRON CURB PIECE
CAMBRIELL TYPE N/ECO
OR APPROVED EQUAL

B/CURB INLET

OUTLET

4000 PSI
CONCRETE

6" CRUSHED STONE

WARES

1'0" MIN

4'-0" 6" TYP

4'-0" 6" TYP

PRECAST INVERT
OPENING SET BY
MANUFACTURER
(SEE PLANS FOR
INVERT ELEVATIONS)

CAST IRON FRAME & GRATE
CAMBRIELL NO. 2541 OR
APPROVED EQUAL

RIM ELEV LOCAL

WARES

to

to

to

to

SECTION B-B

SECTION A-A

BACKFILL AROUND CATCH BASIN TO BE COMPACTED IN MAX 8" LIFTS.

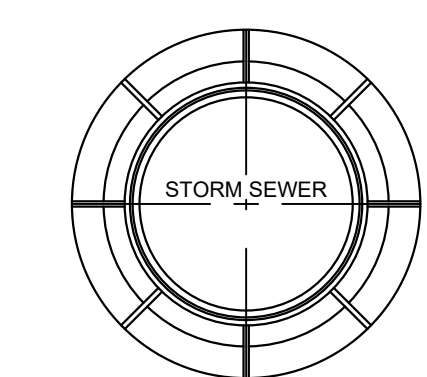
PRECAST ALUMINUM STEPS SHALL BE PROVIDED FOR ALL BASINS GREATER THAN FOUR FEET IN DEPTH.

ALL BASINS SHALL BE DESIGNED FOR H-20 LOADING PLUS 25% COMPACTION.

BACKFILL WITH EXCAVATED TRENCH MATERIAL FREE OF DELETERIOUS MATERIAL AND STONES OVER 6" DIAMETER. BACKFILL TO BE PLACED IN 12" LIFTS AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY.

PRECAST CONCRETE BASIN BY PRECAST CONCRETE SALES COMPANY OR APPROVED EQUAL.

FOR CATCH BASINS LOCATED IN LANDSCAPE AREAS USE FLAT INLET CAMPBELL FOUNDRY NO. 3433 OR EQUAL.



MANHOLE COVER

SCALE: NTS

T/CURB

CAST IRON CURB PIECE
CAMPBELL TYPE "N" ECO
OR APPROVED EQUAL

CEMENT BRICKS
AS REQUIRED TO
ADJUST GRADE

CEMENT MORTAR
WATER STOP

INLET

SEE PLAN FOR INVERTS

VARIES

1" MIN

OUTLET

PRECAST CONC.
CATCH BASIN
OR APPROVED
EQUAL

4000 PSI
CONCRETE

6" CRUSHED
SOIL

B/CURB IN

PLA

SECTION A-A

NOTES:

1. BACKFILL AROUND CATCH BASIN TO BE

PRECAST ALUMINUM STEPS SHALL BE PROVIDED FOR ALL BASINS GREATER THAN FOUR FEET IN DEPTH.

ALL BASINS SHALL BE DESIGNED FOR H-20 LOADING PLUS 25% COMPACTION.

BACKFILL WITH EXCAVATED TRENCH MATERIAL FREE OF DELETERIOUS MATERIAL AND STONES OVER 6" DIAMETER. BACKFILL TO BE PLACED IN 12" LIFTS AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY.

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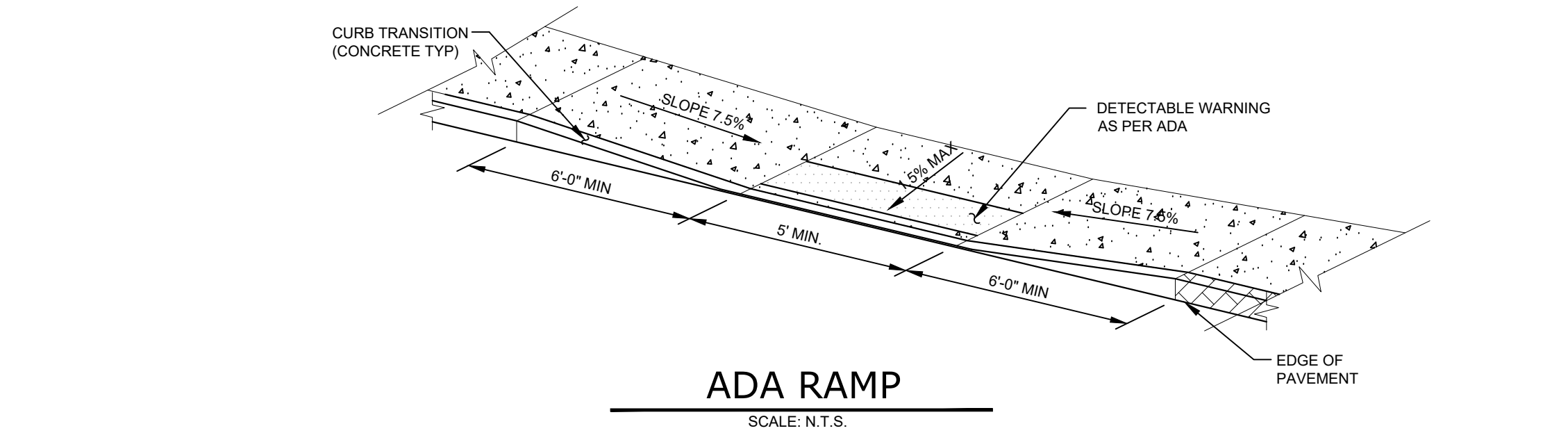
FOR CATCH BASINS LOCATED IN LANDSCAPE AREAS USE FLAT INLET CAMPBELL FOUNDRY NO. 3433 OR EQUAL.

No.	DATE	DESCRIPTION
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4	04/18/23	REVISED FOR RCPD COMMENTS
5	08/21/23	REVISED FOR SUBMISSION TO PB
6	10/06/23	REVISED PER WORKSHOP COMMENTS
7	11/22/23	REVISED FOR PB WORKSHOP
8	01/11/24	REVISED FOR PB & 28A SUBMISSION
9	08/11/24	REVISED LAYOUT PER CLIENT COMMENTS
10	07/23/24	REVISED FOR PB SUBMISSION
11	10/16/24	REVISED FOR PB SUBMISSION
12	11/04/24	REVISED FOR PB SUBMISSION
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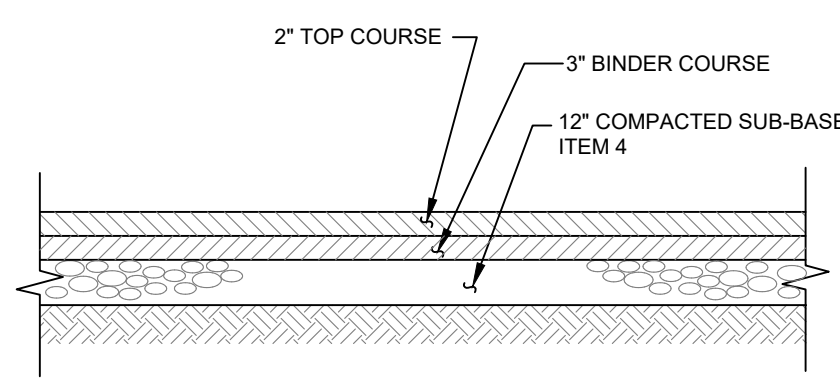
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☐ RCDHO WATERMAIN EXTENSION APPROVAL	N/A	01	N/A
☐ NYSDEC APPROVAL	N/A	01	N/A
☒ NYSDOT APPROVAL	N/A	01	7
☐ OTHER:	N/A	01	N/A
FOR BID / CONSTRUCTION		N/A	N/A

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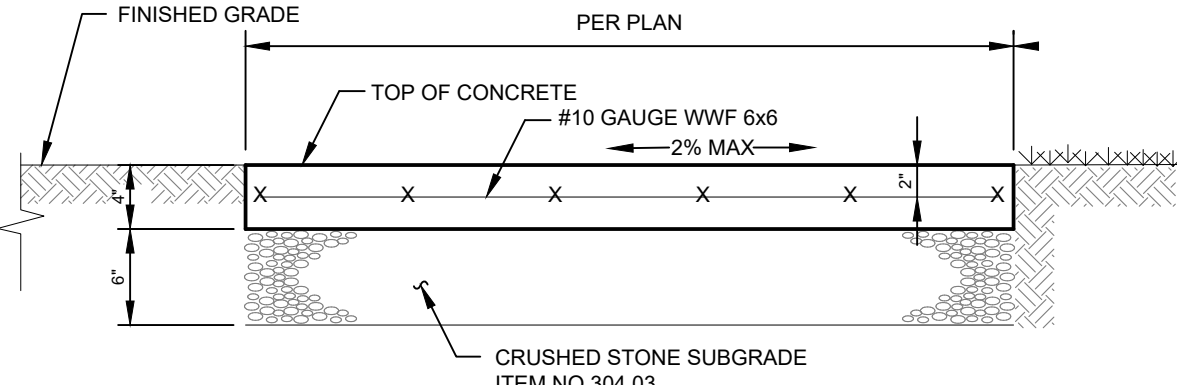
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		STORMWATER DETAILS
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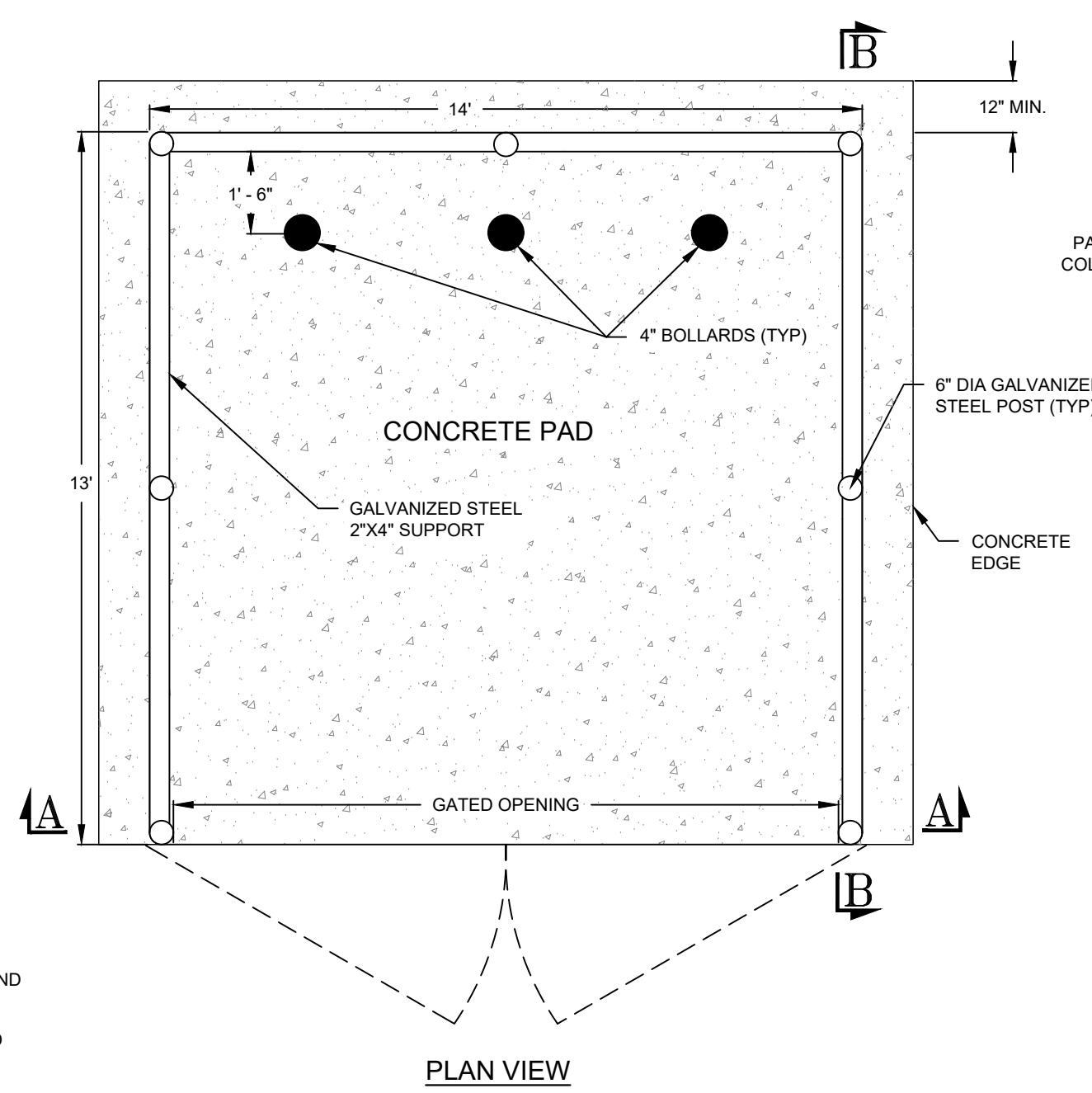


ON-SITE PAVEMENT SECTION
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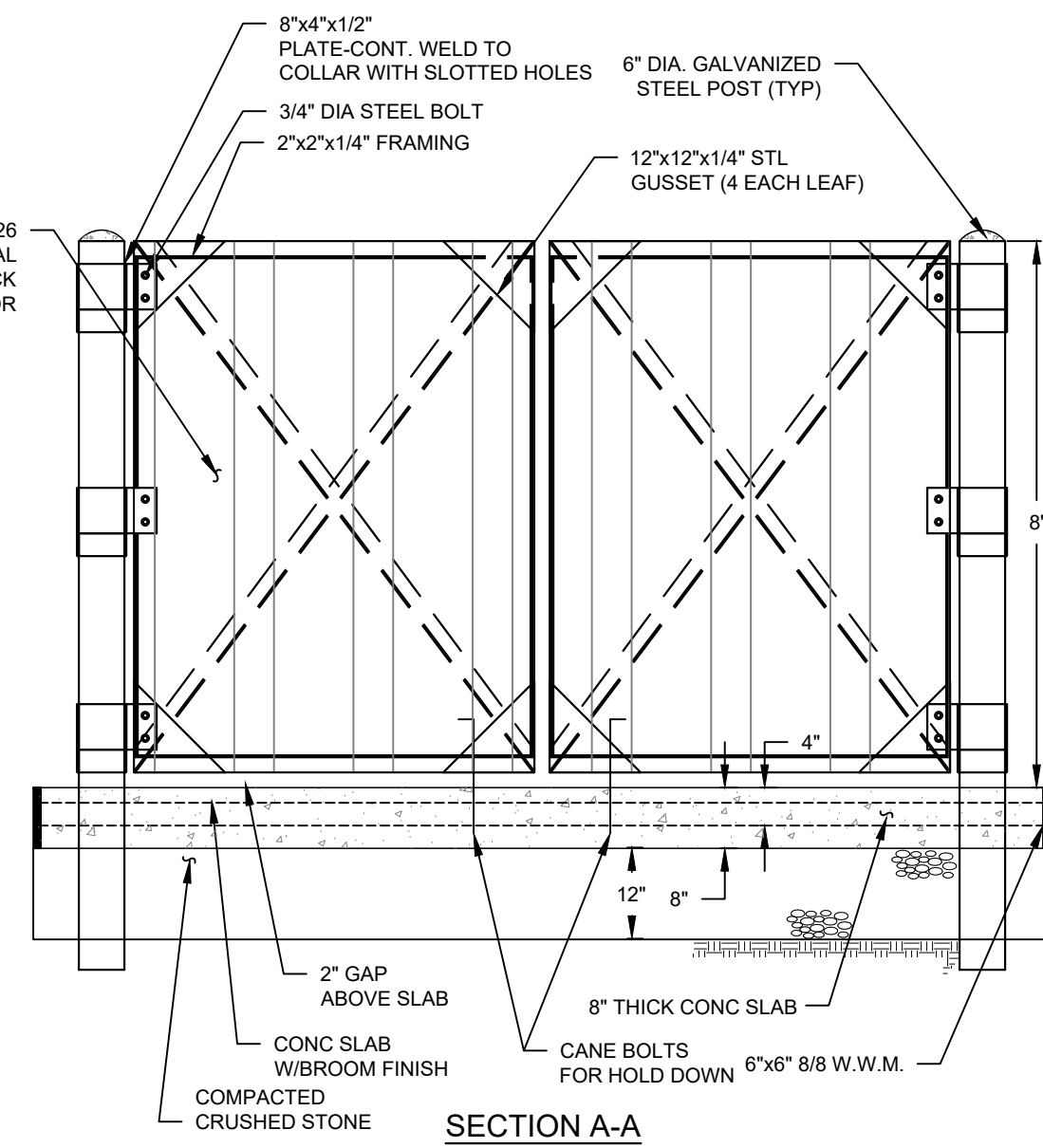
- NOTES:
1. ALL CONCRETE FOR SIDEWALKS SHALL BE 4000 PSI AT 28 DAYS WITH TRANSVERSE BROOM FINISH AND CROSS SLOPE.
 2. SIDEWALK EXPANSION JOINTS SHALL BE SPACED AT 4' INTERVALS AND SHALL BE 1 1/2" DEEP, EDGED WITH 1/4" RADIUS.

SIDEWALK DETAIL
SCALE: N.T.S.

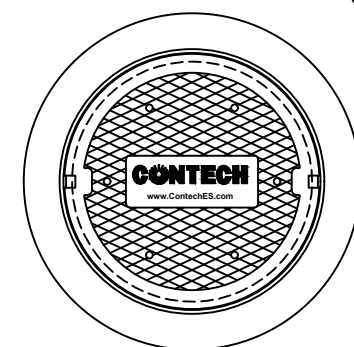


- NOTES:
1. ALL CONCRETE SHALL BE 4000 PSI AT 28 DAYS.

DUMPSTER ENCLOSURE
SCALE: N.T.S.



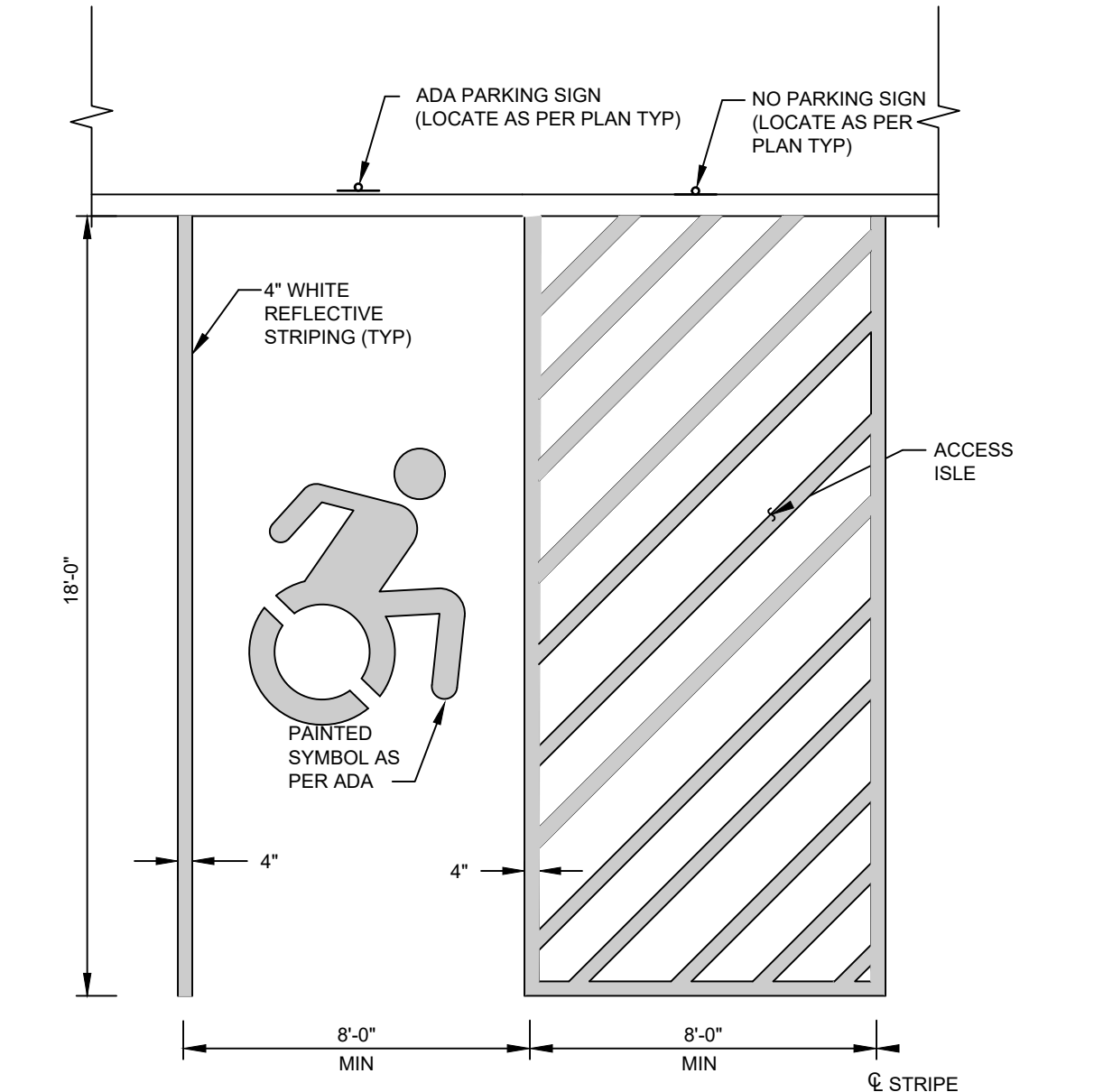
FRAME AND COVER
(DIAMETER VARIES)
NOT TO SCALE



PLAN VIEW B-B
NOT TO SCALE

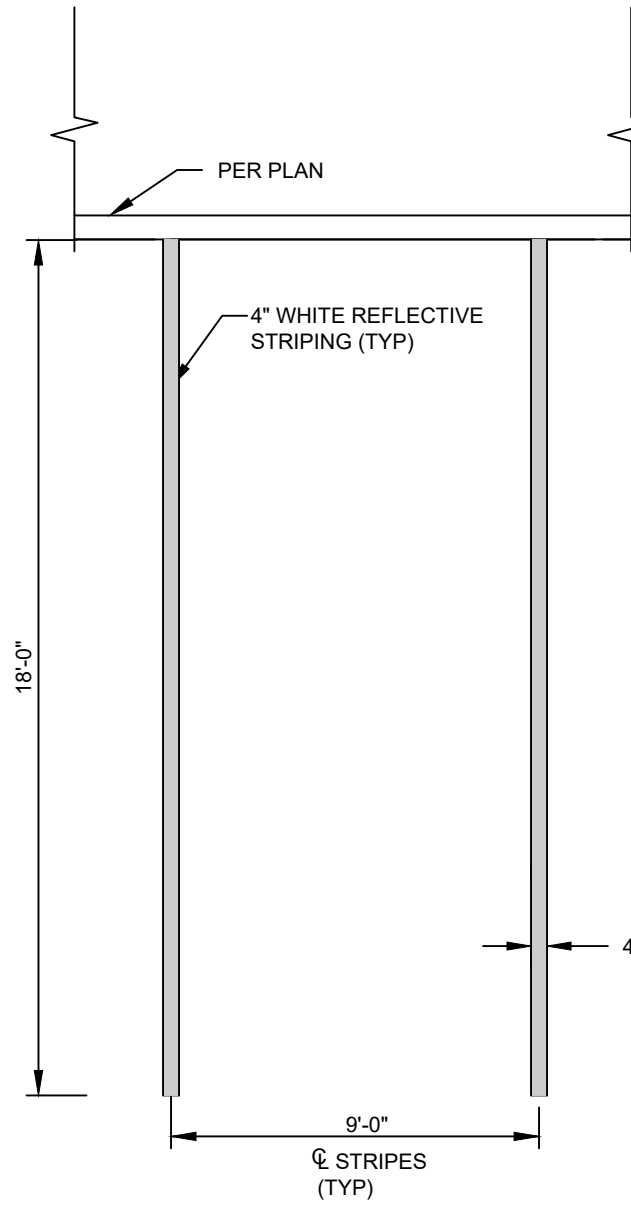
- GENERAL NOTES:
1. CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. WWW.CONTECHES.COM
 3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO H20-10-44 RATING, ASSUMING EARTH COVER OF 0'-2' (B10), AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M30M AND BE CAST WITH THE CONTECH LOGO.
 5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
 6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS (mm).
- INSTALLATION NOTES:
- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
 - C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLY STRUCTURE.
 - D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERS TO MATCH PIPE OPENING CENTERS.
 - E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

ELEVATION A-A
NOT TO SCALE



- NOTES:
1. MAX SLOPE OF 2% IN ALL DIRECTIONS WITHIN ALL HANDICAP PARKING SPACES.

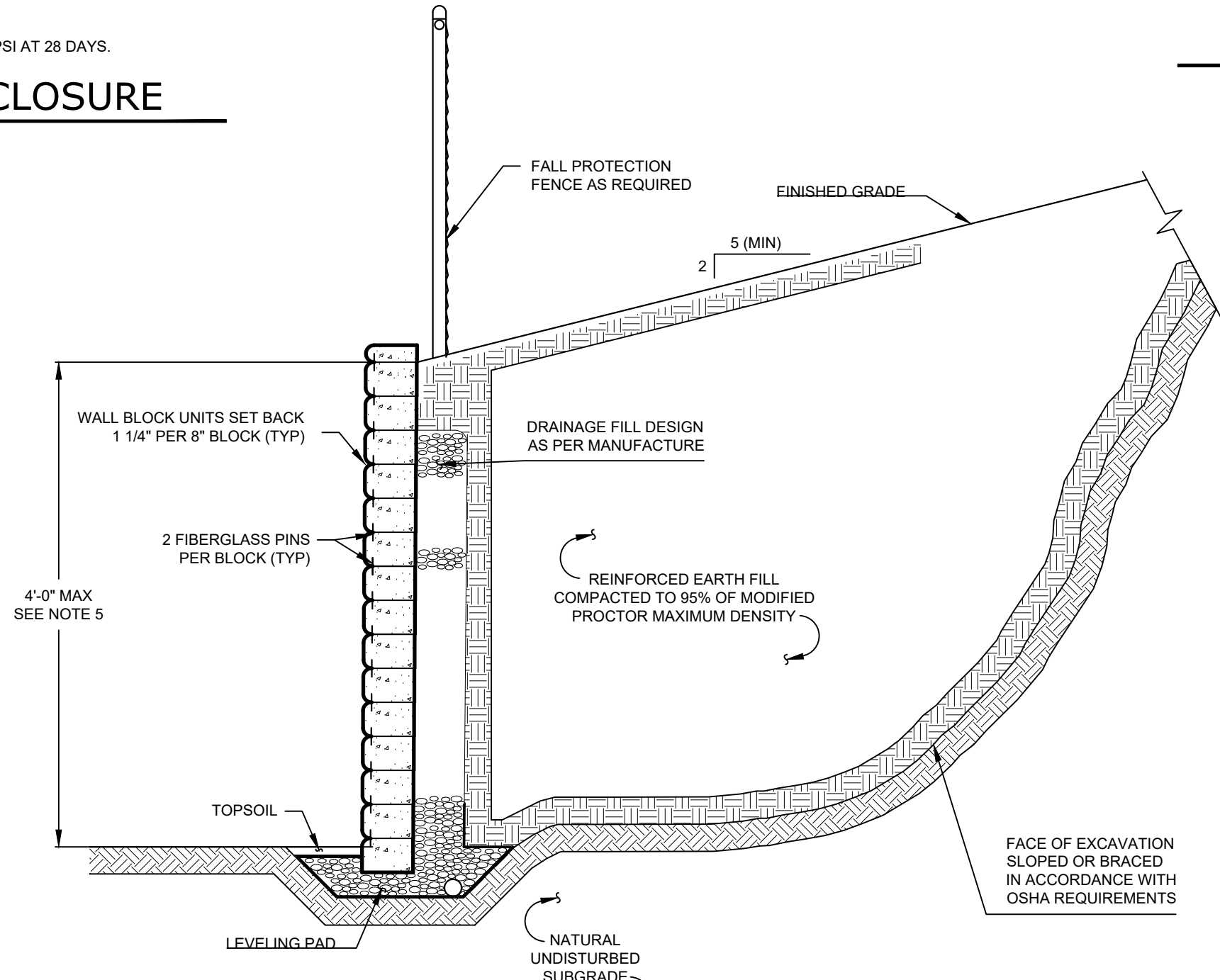
ADA PARKING SPACES
SCALE: N.T.S.



PARKING SPACE
SCALE: N.T.S.

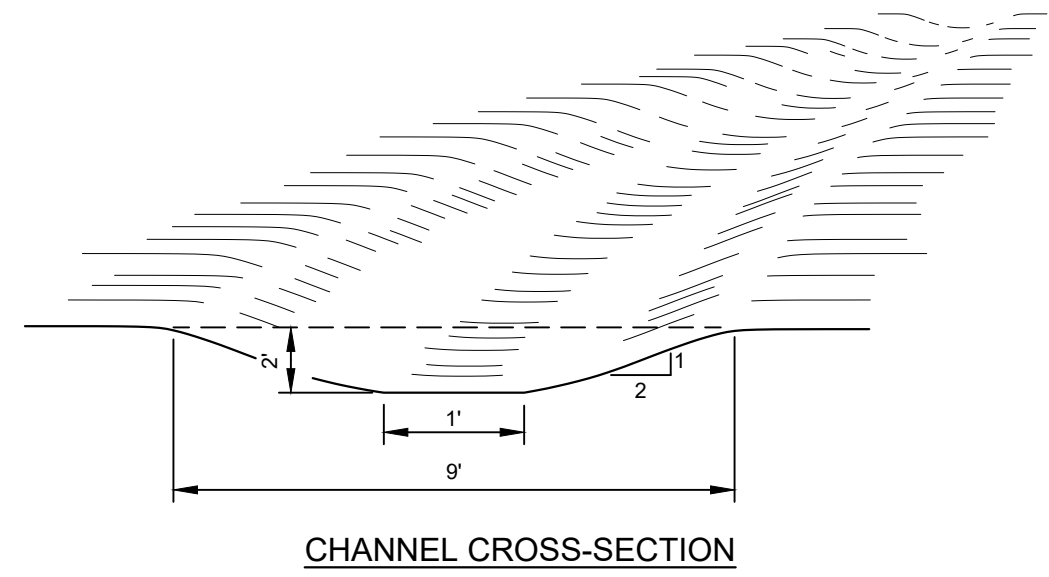
SIGN	TEXT	M.U.T.C.D. No.	SIZE OF SIGN	TYPE OF MOUNT	DESCRIPTION
NP	NO PARKING ANY TIME	P1-1C	12" x 18"	GR MTD	WHITE BACKGROUND RED LETTERING
STOP	STOP	R1-1C	36" x 36"	GR MTD	RED BACKGROUND WHITE LEGEND
HC	RESERVED PARKING	M12-1	18" x 24"	GR MTD	BLUE BACKGROUND BLACK SYMBOL WHITE LETTERING

SIGN SCHEDULE
SCALE: N.T.S.



- NOTES:
1. PROPOSED KEYSTONE KS HALF CENTURY RETAINING WALL MAY BE DESIGNED AS PER THE MANUFACTURER.
 2. FENCING SHALL BE INSTALLED FOR AS SHOWN ON THE PLANS, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 3. COLORS TO MATCH FOUNDATION STONE.
 4. PRIOR TO CONSTRUCTION, DESIGN OF ALL RETAINING WALLS SHALL BE PREPARED BY A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER AND BE SUBMITTED TO THE TOWN OF HAVERSTRAW BUILDING INSPECTOR / ENGINEER FOR REVIEW AND APPROVAL.

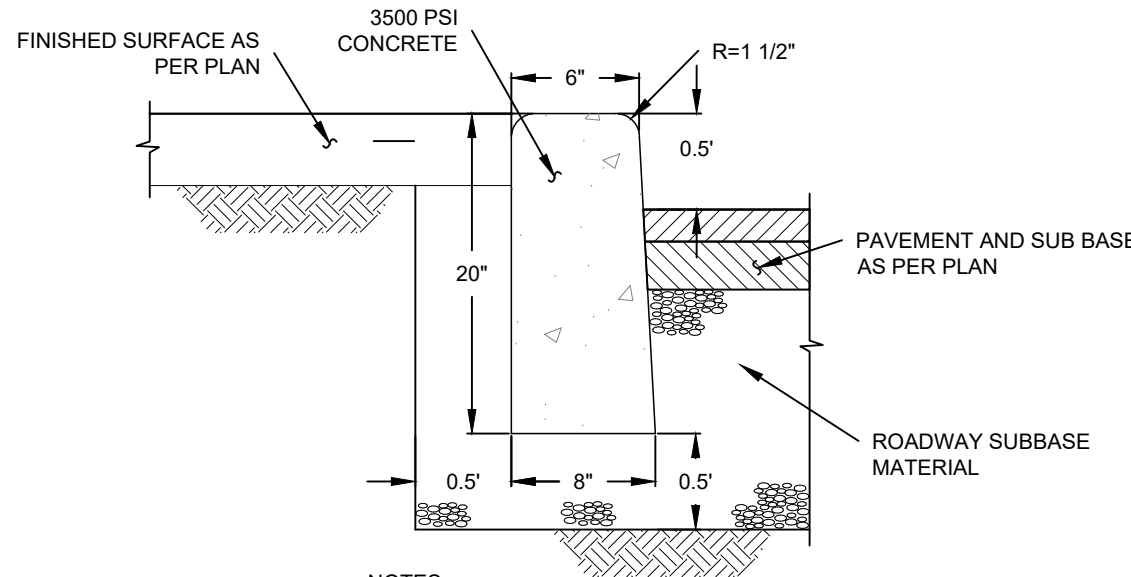
TYPICAL MSE RETAINING WALL
SCALE: N.T.S.



CHANNEL CROSS-SECTION

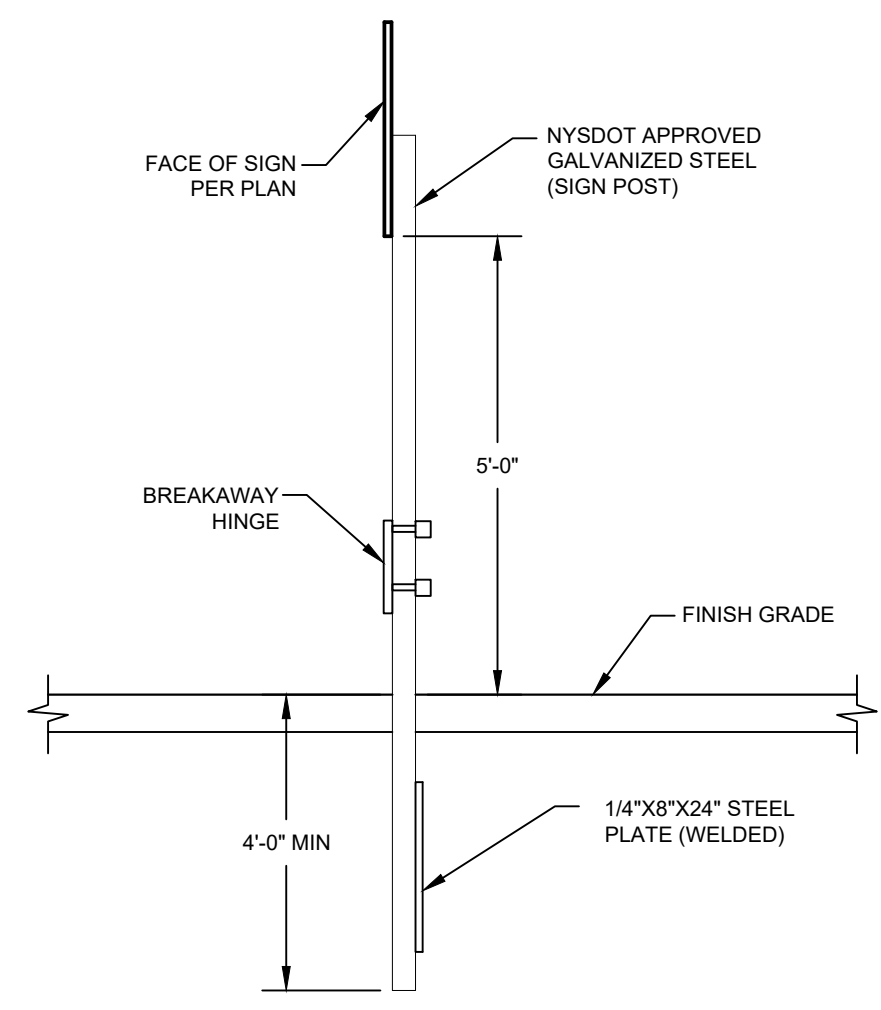
- CONSTRUCTION SPECIFICATIONS:
1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
 2. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
 3. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF OUTSIDE THE WETLAND SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
 4. STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARDS AND SPECIFICATIONS FOR VEGETATIVE PRACTICES. SEEDING AND MULCHING SHALL BE USED FOR ESTABLISHMENT OF THE VEGETATION. VEGETATION PROVIDED SHALL BE REED CANARYGRASS, TALL FESCUE, KENTUCKY BLUEGRASS OR AN APPROVED EQUAL.

BYPASS GRASSSED SWALE
SCALE: N.T.S.



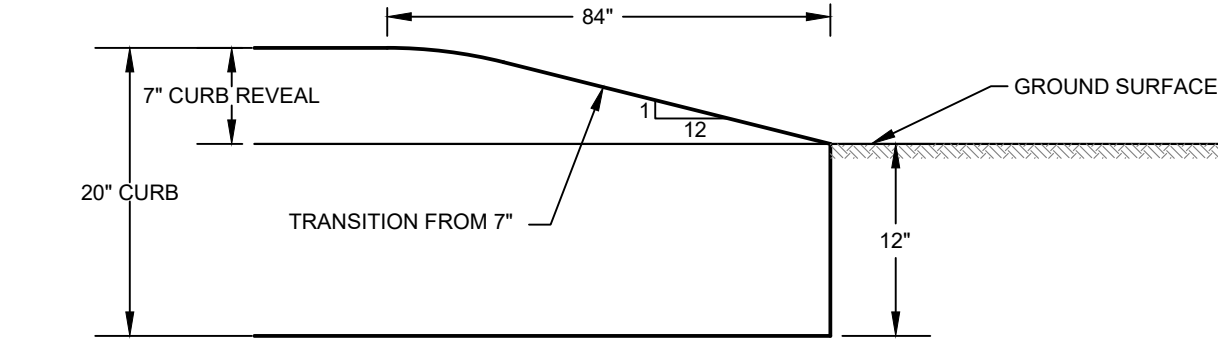
- NOTES:
1. CURB SHALL BE CAST IN PLACE.
 2. EXPANSION JOINTS OF 3/4" PREFORMED BITOCOATED CELLULOSE OR SIMILAR MATERIAL SHALL BE PLACED AT 10 (TEN) FOOT INTERVALS.
 3. TEMPORARY FORM SUPPORT BRACING SHALL BE REMOVED DURING CONCRETE POUR.

6" CONCRETE CURB
SCALE: 1"=1'-0"

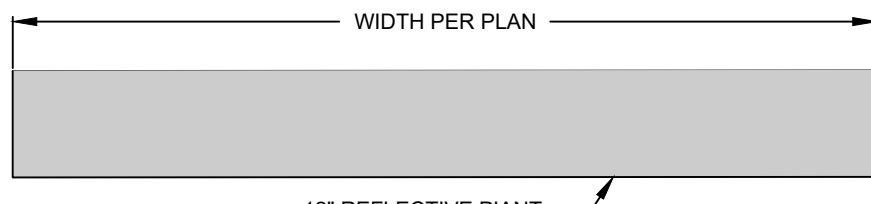


- NOTES:
1. ALL ASSEMBLY HARDWARE TO BE CAST ALUMINUM WITH ALUMINUM BOLTS.
 2. ALL SIGNS SHALL CONFORM TO ALL NYSDOT AND MUTCD REQUIREMENTS.

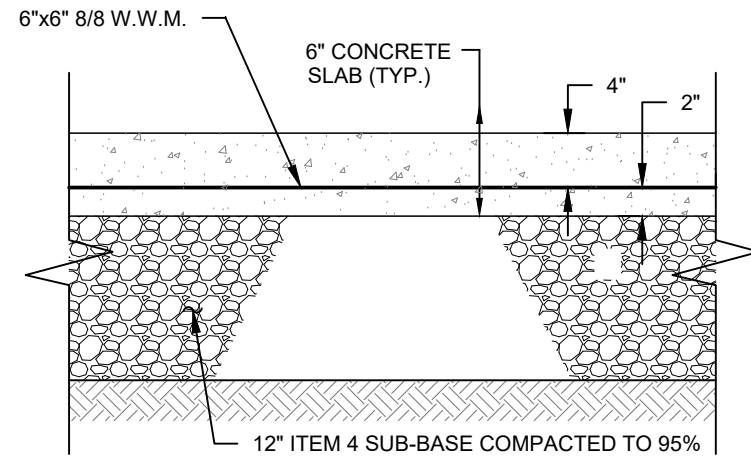
SIGN POST
SCALE: N.T.S.



CONCRETE CURB TERMINATION
SCALE: N.T.S.

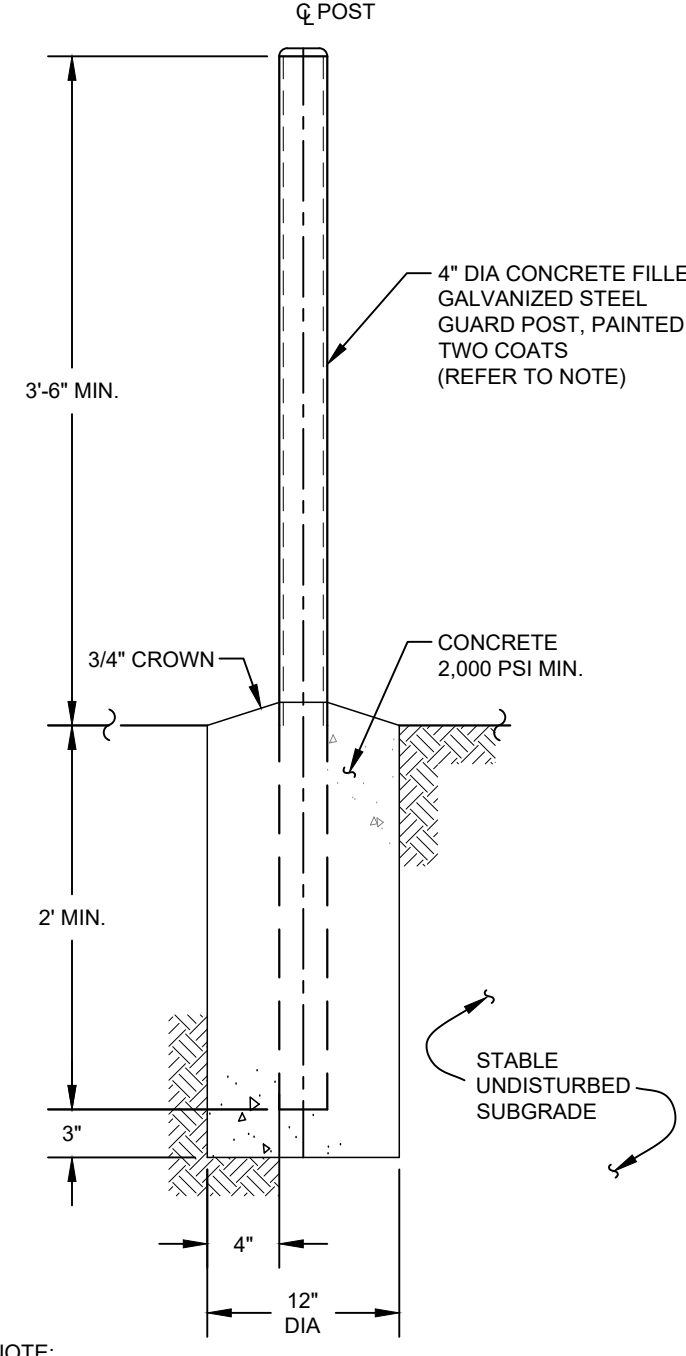


STOP BAR
SCALE: N.T.S.



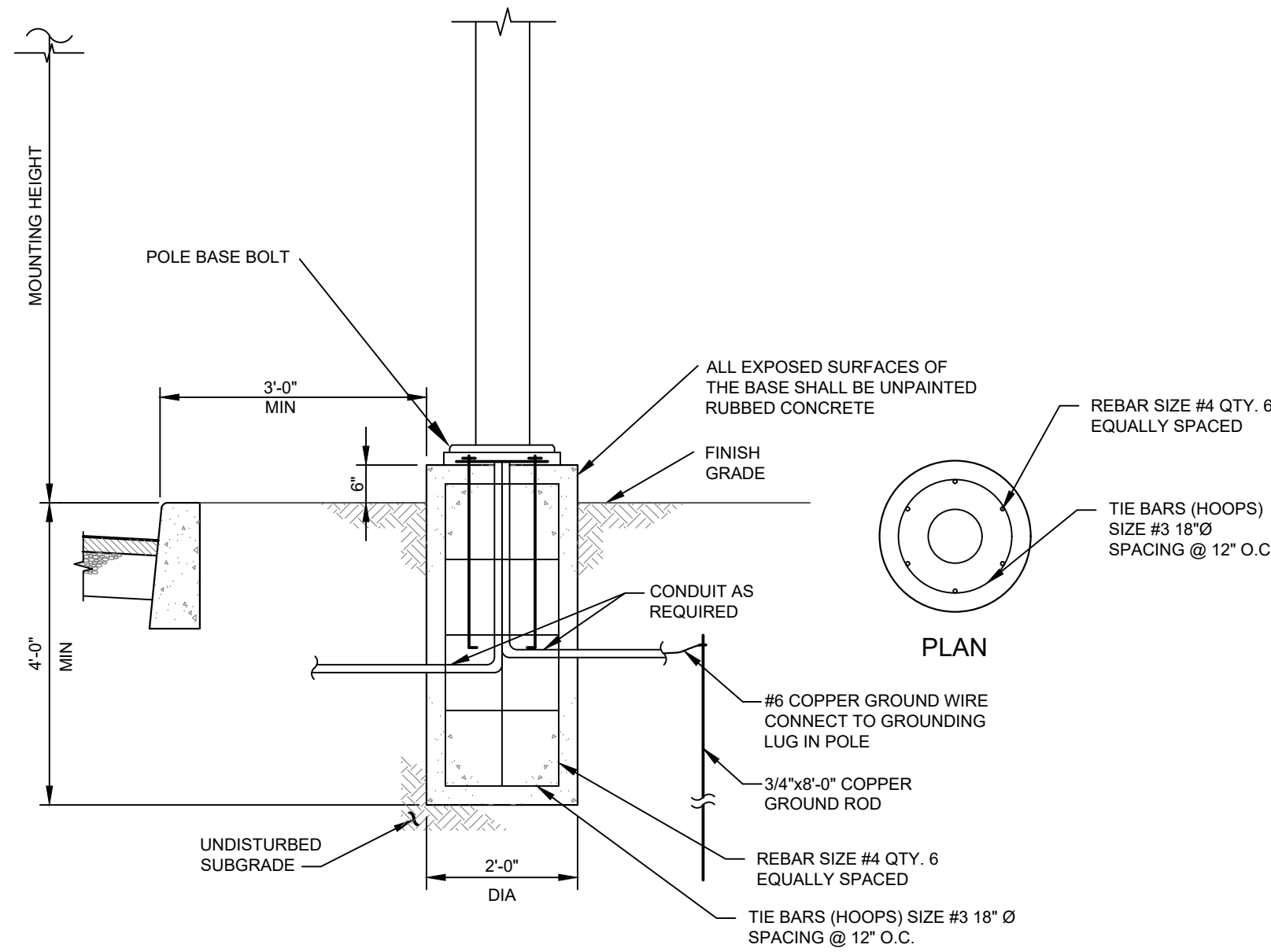
- NOTES:
1. CONCRETE SHALL BE 4000 PSI AT 28 DAYS.
 2. ALL SUB-GRADE AND SUB-BASE SHALL BE PROOF ROLLED WITH TOWN ENGINEER PRESENT PRIOR TO THE PLACEMENT OF SUBSEQUENT LIFTS.

CONCRETE PAVEMENT SECTION
SCALE: N.T.S.

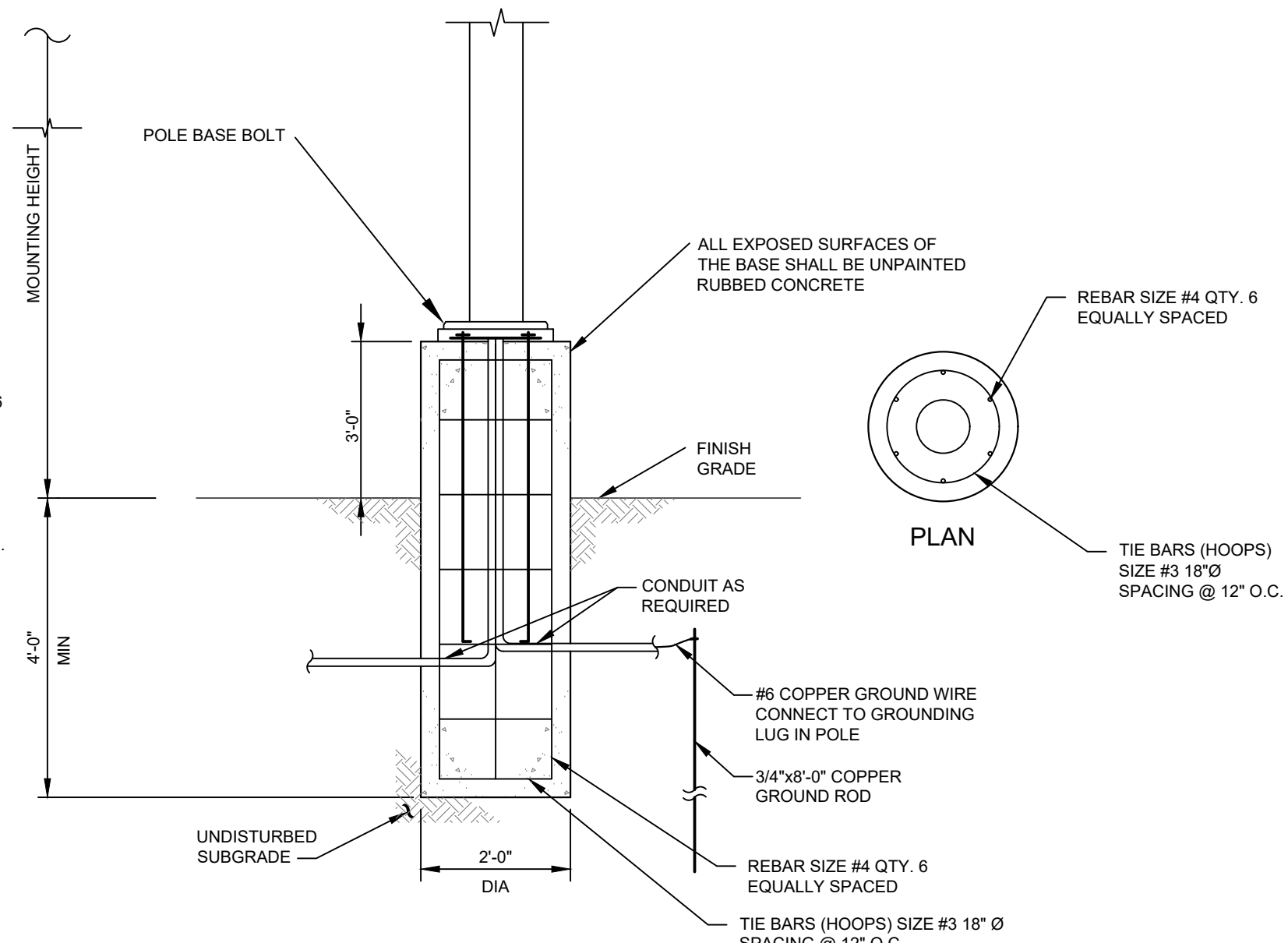


- NOTE:
1. PAINT COATING SHALL BE RUST-OLEUM INDUSTRIAL ENAMEL, SAFETY YELLOW, MODEL #0944 OR ACCEPTABLE EQUAL.

BOLLARD
SCALE: N.T.S.



LIGHT POLE BASE BEHIND CURB
SCALE: N.T.S.

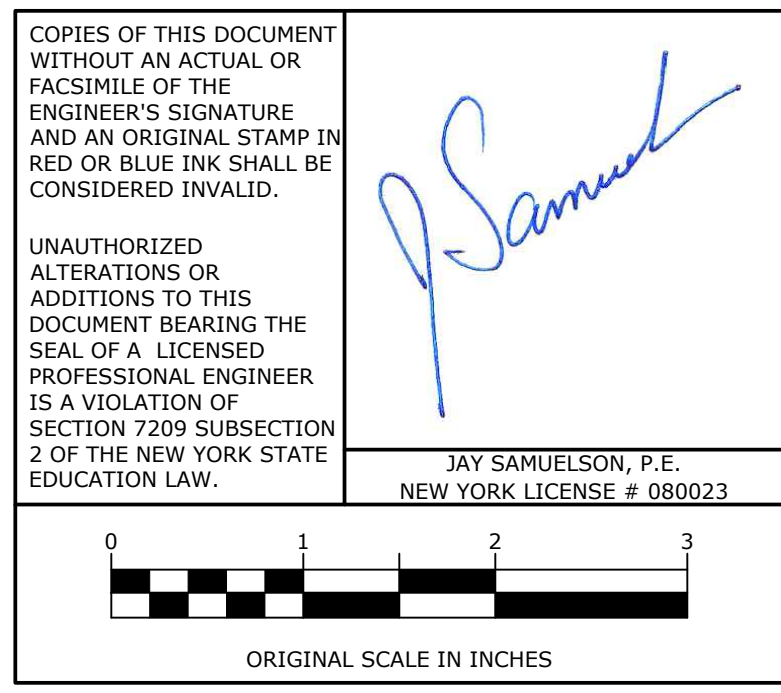


LIGHT POLE BASE WITHOUT CURB
SCALE: N.T.S.

No.	DATE	DESCRIPTION
1	07/15/22	REVISED FOR SUBMISSION TO PB
2	08/23/22	REVISED FOR SUBMISSION TO PB
3	10/21/22	REVISED FOR SUBMISSION TO PB
4	04/18/23	REVISED FOR RCDOP COMMENTS
5	08/21/23	REVISED FOR SUBMISSION TO PB
6	10/04/23	REVISED PER WORKSHOP COMMENTS
7	11/22/23	REVISED FOR PB WORKSHOP
8	01/11/24	REVISED FOR PB & ZBA SUBMISSION
9	06/11/24	REVISED LAYOUT PER CLIENT COMMENTS
10	07/23/24	REVISED FOR PB SUBMISSION
11	10/16/24	REVISED FOR PB SUBMISSION
12	11/04/24	REVISED FOR PB SUBMISSION
13	12/11/24	REVISED FOR PB SUBMISSION
14	01/23/25	REVISED FOR OUTSIDE AGENCY SUBMISSIONS

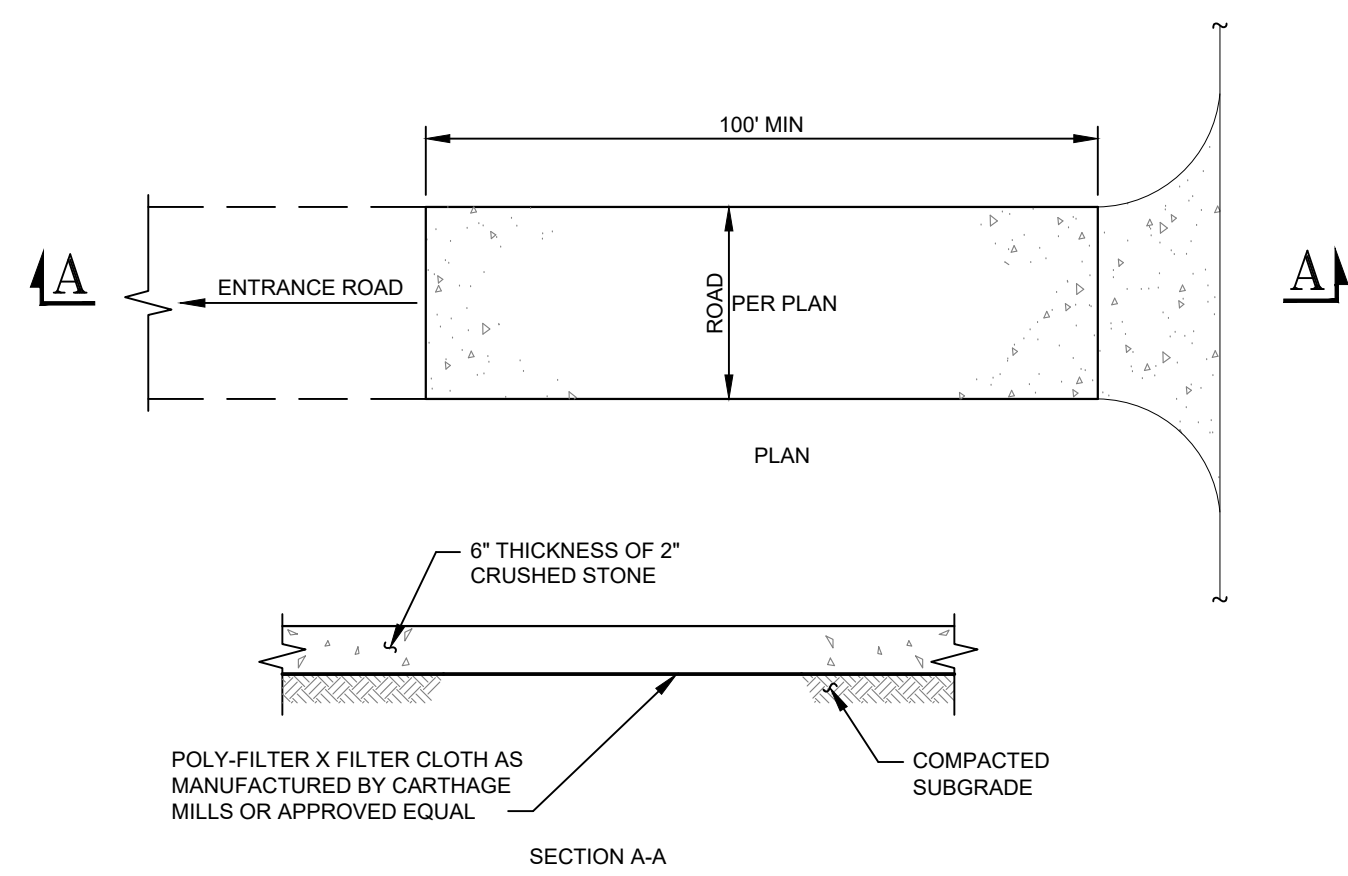
DRAWING STATUS	ISSUE DATE:
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	01/23/2025
☒ CONCEPT APPROVAL	N/A OF N/A
☒ PLANNING BOARD APPROVAL	13 OF 16
☒ RCDOP REALTY SUBDIVISION APPROVAL	N/A OF N/A
☒ RCDOP WATERMAIN EXTENSION APPROVAL	N/A OF N/A
☒ NYSDEC APPROVAL	N/A OF N/A
☒ NYSDOT APPROVAL	N/A OF 7
☒ OTHER:	N/A OF N/A
☒ FOR BID / CONSTRUCTION	N/A OF N/A

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ENGINEERING & SURVEYING PROPERTIES	MONTGOMERY OFFICE
71 CLINTON STREET MONTGOMERY, NY 12549 Ph: (845) 457-7727 WWW.EP-PC.COM	
SITE & STORMWATER DETAILS	
EASTGATE - HAVERSTRAW US ROUTE 202 TOWN OF HAVERSTRAW ROCKLAND COUNTY, NEW YORK	
JOB #:	DRAWN BY: ZS
DATE: 05/05/2024	SCALE: AS NOTED
REVISION: 14 - 01/23/2025	TAX LOT: 25-19-2-19 & 20

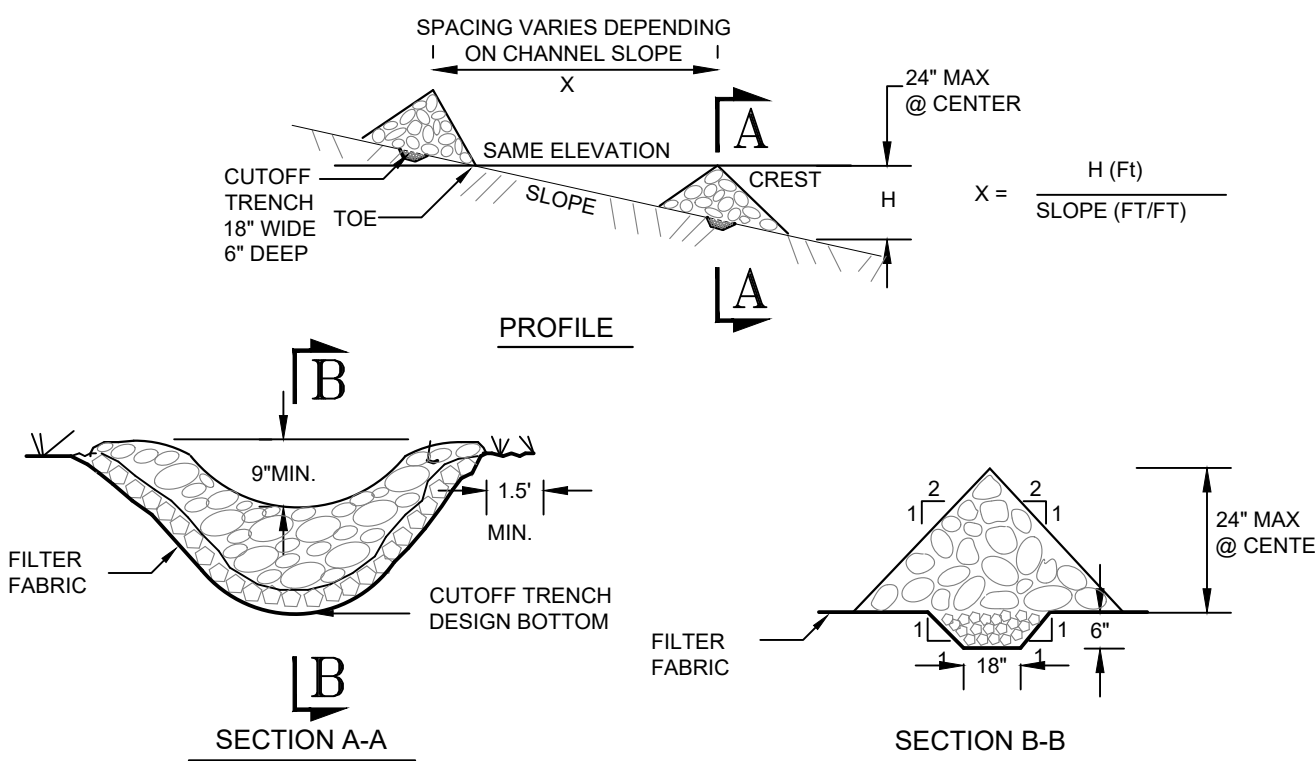
C-304



- NOTES:
- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - WIDTH - 35 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRED PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - PERIODIC INSPECTIONS AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

SCALE: NTS

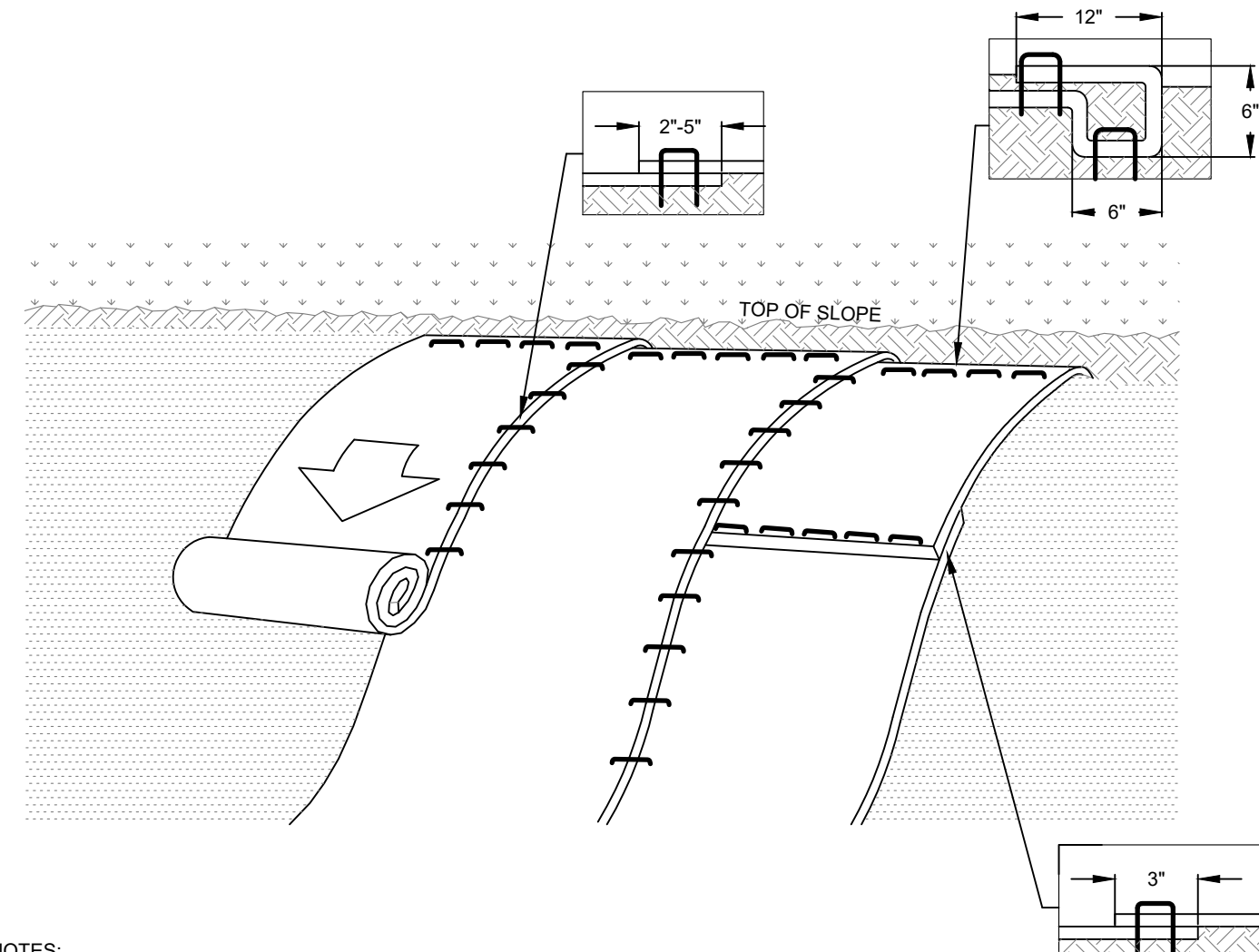


CONSTRUCTION SPECIFICATIONS:

- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES. GRADES AND LOCATIONS SHOWN IN THE PLAN.
- SET SPACING OF CHECK DAMS TO ASSURE THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.
- STONE SHALL BE MAXIMUM SIZE OF 12\"/>
- FILTER FABRIC SHALL BE POLY-FILTER X CLOTH AS MANUFACTURED BY CARTHAGE MILLS OR APPROVED EQUAL.

CHECK DAM

SCALE: NTS

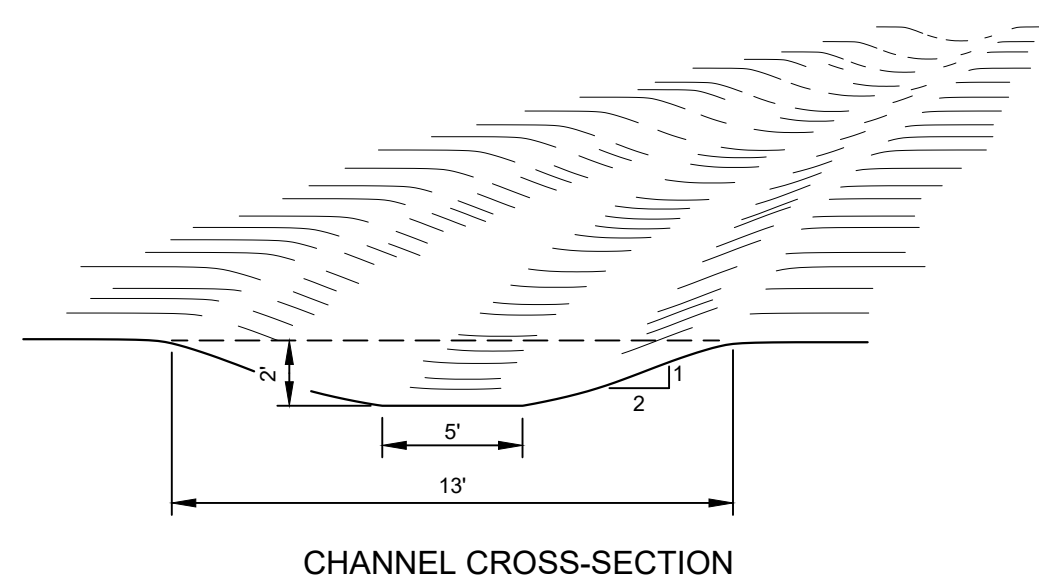


NOTES:

- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCT (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- INSTALL RECP - NORTH AMERICAN GREEN RIONET S150BN OR APPROVED EQUAL. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6\"/>
- ROLL THE RECP'S DOWN THE SLOPE OR HORIZONTALLY ACROSS THE SLOPE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE PRODUCT'S STAPLE PATTERN GUIDE.
- THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2\"/>
- CONSECUTIVE RECP'S SPLUED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3\"/>

SLOPE STABILIZATION (ROLLED EROSION CONTROL PRODUCT)

SCALE: NTS

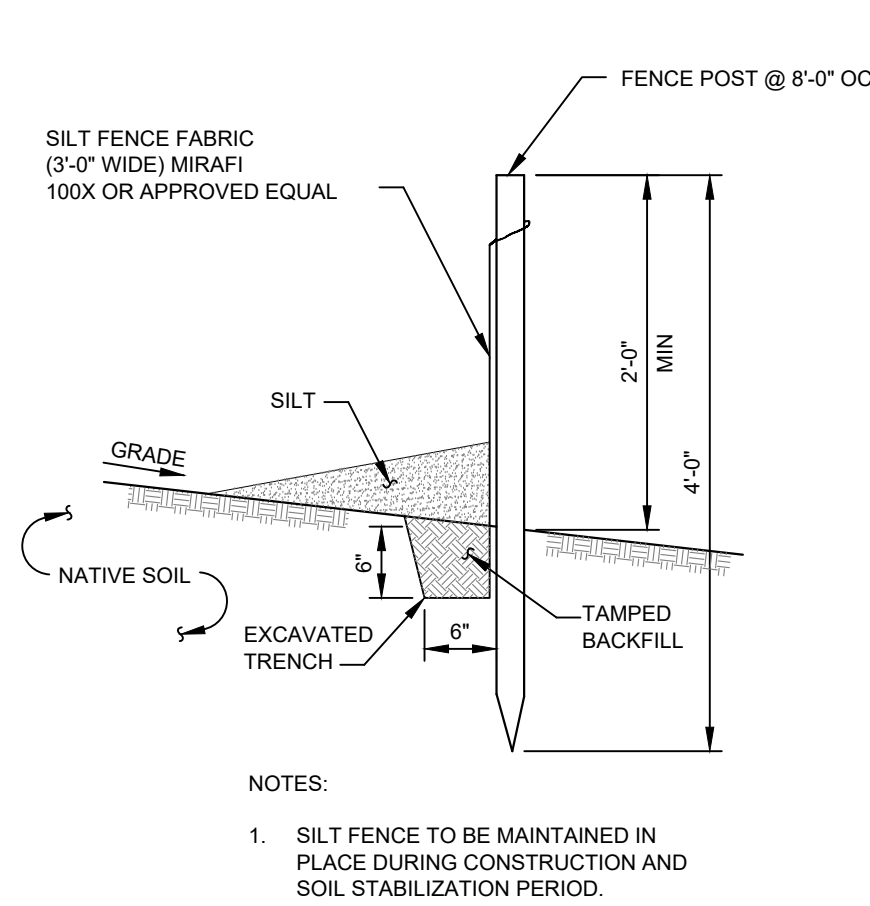


CONSTRUCTION SPECIFICATIONS:

- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
- THE WATERWAY 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.
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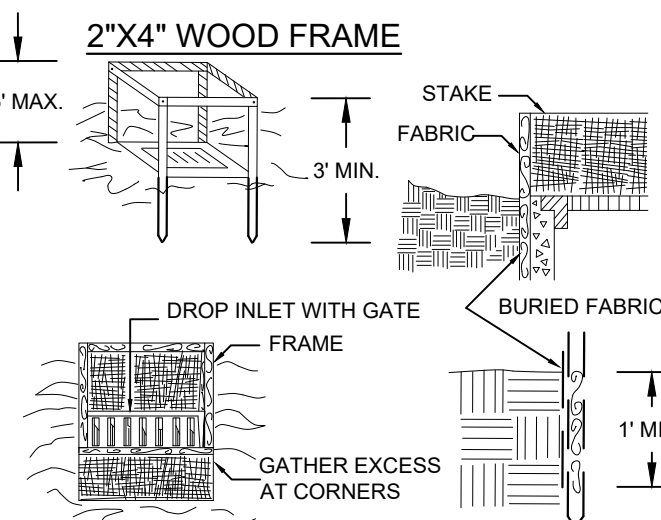
DIVERSION GRASSED SWALE

SCALE: NTS



SILT FENCE

SCALE: 3/4\"/>

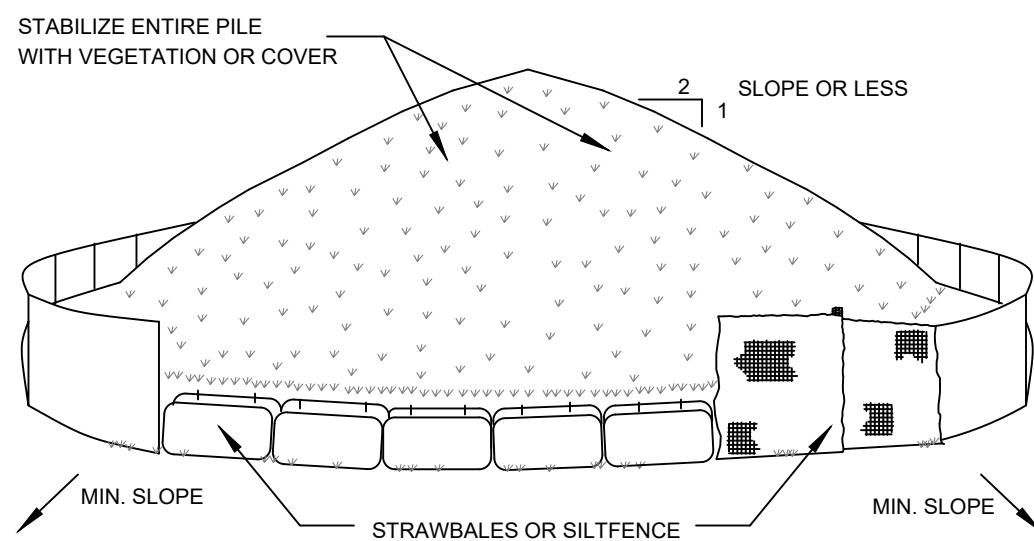


CONSTRUCTION SPECIFICATIONS

- FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
- CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
- STAKE MATERIALS WILL BE STANDARD 2\"/>
- SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
- FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
- A 2\"/>

FILTER FABRIC DROP INLET PROTECTION

NOT TO SCALE



NOTES:

- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
- MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
- UPON COMPLETION OF SOIL STOCKPILE, EACH PILE SHALL BE SURROUNDED A WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION, OR COVERED.
- SEE SPECIFICATIONS (THIS MANUAL) FOR INSTALLATION OF SILT FENCE.

SOIL STOCKPILING

SCALE: NTS

NO.	DATE	DESCRIPTION
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13	12/11/24	REVISED FOR PB SUBMISSION
14	01/23/25	REVISED FOR OUTSIDE AGENCY SUBMISSIONS

DRAWING STATUS		ISSUE DATE:	
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR		01/23/2025	
SHEET NUMBER		14 OF 16	
☒ CONCEPT APPROVAL	N/A	OF	N/A
☒ PLANNING BOARD APPROVAL	14	OF	16
☒ RCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☒ RCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☒ NYSDEC APPROVAL	N/A	OF	N/A
☒ NYSDOT APPROVAL	N/A	OF	7
☐ OTHER:	N/A	OF	N/A
☐ FOR BID / CONSTRUCTION	N/A	OF	N/A

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EARTHWORK CONSTRUCTION NOTES:

- ALL WORK TO BE PERFORMED TO THE SPECIFICATIONS OF THE TOWN OF HAVERSTRAW.
- ANY IMPORTED FILL SOILS REQUIRED SHALL BE CLEAN FILL WITH A MANIFEST OF ORIGIN THAT MUST BE PROVIDED TO THE TOWN ENGINEER OR BUILDING INSPECTOR PRIOR TO DELIVERY.
- ALL TOPSOIL, ROOTS, STUMPS AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM ALL CONSTRUCTION AREAS.
- ALL FILL FOR POND CONSTRUCTION, BELOW BUILDINGS AND PAVEMENT TO BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557.
- CELLAR AND FOOTING DRAINS SHALL CONNECT TO THE STORM DRAINAGE SYSTEM OR OTHER FREE-FLOWING OUTLET AT A MINIMUM SLOPE OF 0.5%. FOOTING DRAIN SHALL BE INSTALLED BENEATH BOTTOM OF FOOTING.
- COMPLETION OF GRADING AND BASIN BERMS AFTER OCTOBER 15 SHALL REQUIRE MULCHING AND ANCHORING IN ACCORDANCE WITH NOTES ENTITLED "EROSION AND SEDIMENTATION CONTROL NOTES".
- ALL SLOPES IN EXCESS OF 3H:1V SHALL BE CONSTRUCTED WITH LOCALLY AVAILABLE CLEAN MATERIAL. THE EMBANKMENT FILL SHALL BE PLACED IN SIX-INCH THICK LIFTS. EACH LIFT SHALL BE PLACED AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557.
- CONSTRUCT POND EMBANKMENT WITH LOCALLY AVAILABLE CLEAN MATERIAL WITH 3H:1V SIDE SLOPES OR AS NOTED ON PLAN. THE EMBANKMENT FILL SHALL BE PLACED IN A SIX-INCH THICK CONTINUOUS LAYER OVER THE ENTIRE LENGTH. EACH LIFT SHALL BE PLACED AT OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557.
- STABILIZATION OF POND BERMS, AND ALL SLOPES IN EXCESS OF 3H:1V IN ACCORDANCE WITH "EROSION AND SEDIMENTATION CONTROL NOTES".
- THE PRE-TREATMENT POND 5C AND THE FOREBAY OF THE INFILTRATION POND 2C SHALL CONSTRUCTED WITH A CLAY LINER.

EROSION AND SEDIMENTATION CONTROL NOTES

- SITE DISTURBANCE SHALL BE LIMITED TO THE MINIMUM NECESSARY GRADING AND VEGETATION REMOVAL REQUIRED FOR CONSTRUCTION.
- TEMPORARY EROSION CONTROL MEASURES, INCLUDING SILT FENCES AND/OR STRAW BALE BARRIERS, DRAINAGE STRUCTURES, AND RIP-RAP PROTECTION SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE FOR GRADING AND CONSTRUCTION.

- ALL DISTURBED AREAS SHALL BE SEEDDED AND MULCHED AS SOON AS PRACTICAL FOLLOWING DISTURBANCE TO STABILIZE BARE SOIL AND PROMOTE THE PROMPT RE-ESTABLISHMENT OF VEGETATION:

- AN ADEQUATE SEEDBED SHALL BE PREPARED BY SCARIFYING COMPACTED SOIL AND REMOVING SURFACE DEBRIS AND OBSTACLES.
- LIME SHALL BE APPLIED SUFFICIENTLY TO ATTAIN A SOIL ACIDITY PH OF 6.0 TO 7.0.

- FERTILIZER (5-10-10 MIXTURE OR EQUIVALENT) SHALL BE APPLIED PER SOIL TEST RESULTS OR AT A RATE OF 60 LBS. PER ACRE.

- DISTURBED AREAS WHICH WILL REMAIN TEMPORARILY FALLOW FOR PERIODS GREATER THAN 30 DAYS SHALL BE SEEDDED AT THE FOLLOWING RATE TO PRODUCE TEMPORARY GROUND COVER: 30 LBS. RYEGRASS (ANNUAL OR PERENNIAL) PER ACRE DURING THE WINTER, USE 100 LBS. CERTIFIED "AROSTOOK" WINTER RYE (CEREAL RYE) PER ACRE.

- PERMANENT SEEDING SHALL BE APPLIED ON 4\"/>

- ALL SEEDING SHALL BE PERFORMED USING THE BROADCAST METHOD OR HYDROSEEDING, UNLESS OTHERWISE APPROVED.

- ALL DISTURBED AREAS SHALL BE STABILIZED SUBSEQUENT TO SEEDING BY APPLYING 2 TONS OF STRAW MULCH PER ACRE. STRAW MULCH SHALL BE ANCHORED BY APPLYING 750 LBS OF WOOD FIBER MULCH PER ACRE WITH A HYDROSEEDER, OR TUCKING THE MULCH WITH SMOOTH DISCS OR OTHER MULCH ANCHORING TOOLS TO A DEPTH OF 2\"/>

- ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DRAINAGE STRUCTURES SHALL BE INSPECTED FOLLOWING EVERY RAIN EVENT, AND MAINTENANCE AND REPAIRS SHALL BE PERFORMED PROMPTLY TO MAINTAIN PROPER FUNCTION. TRAPPED SEDIMENT SHALL BE REMOVED AND DEPOSITED IN A PROTECTED AREA IN A PROPER MANNER WHICH WILL NOT RESULT IN EROSION.

- TEMPORARY CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED AND GROUND COVER IS COMPLETELY REESTABLISHED. FOLLOW-UP STABILIZATION, TEMPORARY MEASURES SHALL BE REMOVED TO AVOID INTERFERENCE WITH DRAINAGE.

- ALL STORM INLETS TO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION.

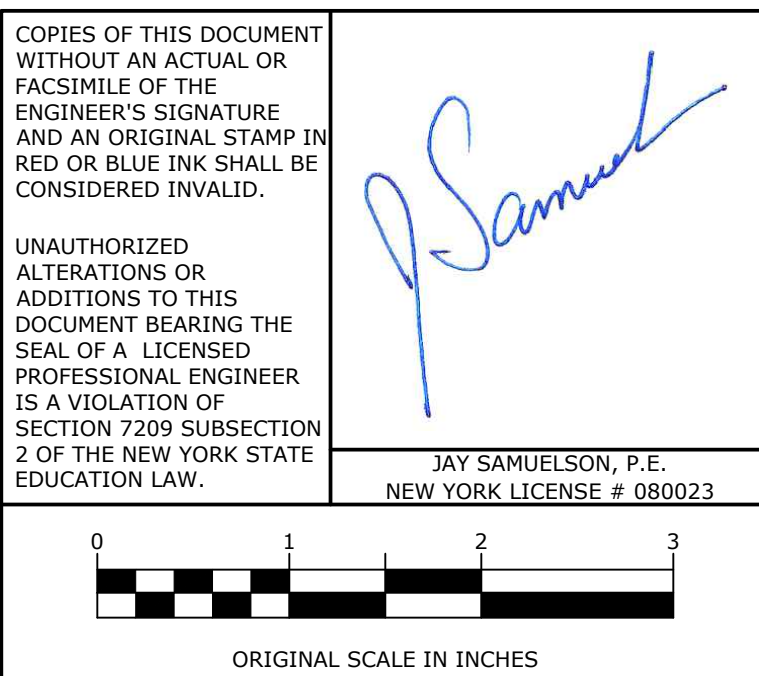
- SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN SUFFICIENT QUANTITIES.

- MULCH NETTING SUCH AS PAPER, JUTE, EXCELBIOR, COTTON OR PLASTIC MAY BE USED. STAPLE IN PLACE OVER MAY OR STRAW MULCH. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.

- STABILIZATION OF STEEP SLOPES SHALL BE ACHIEVED BY APPLYING LIME AND FERTILIZER AS SPECIFIED ABOVE AND SEEDING WITH THE FOLLOWING MIXTURE:

MATERIAL	Lbs./ACRE
PERENNIAL RYE GRASS	30
CROWN VETCH	12
SPREADING FESCUE	25

- OPTIMUM SEEDING PERIODS ARE 3/15-6/1 AND 8/1-10/15.



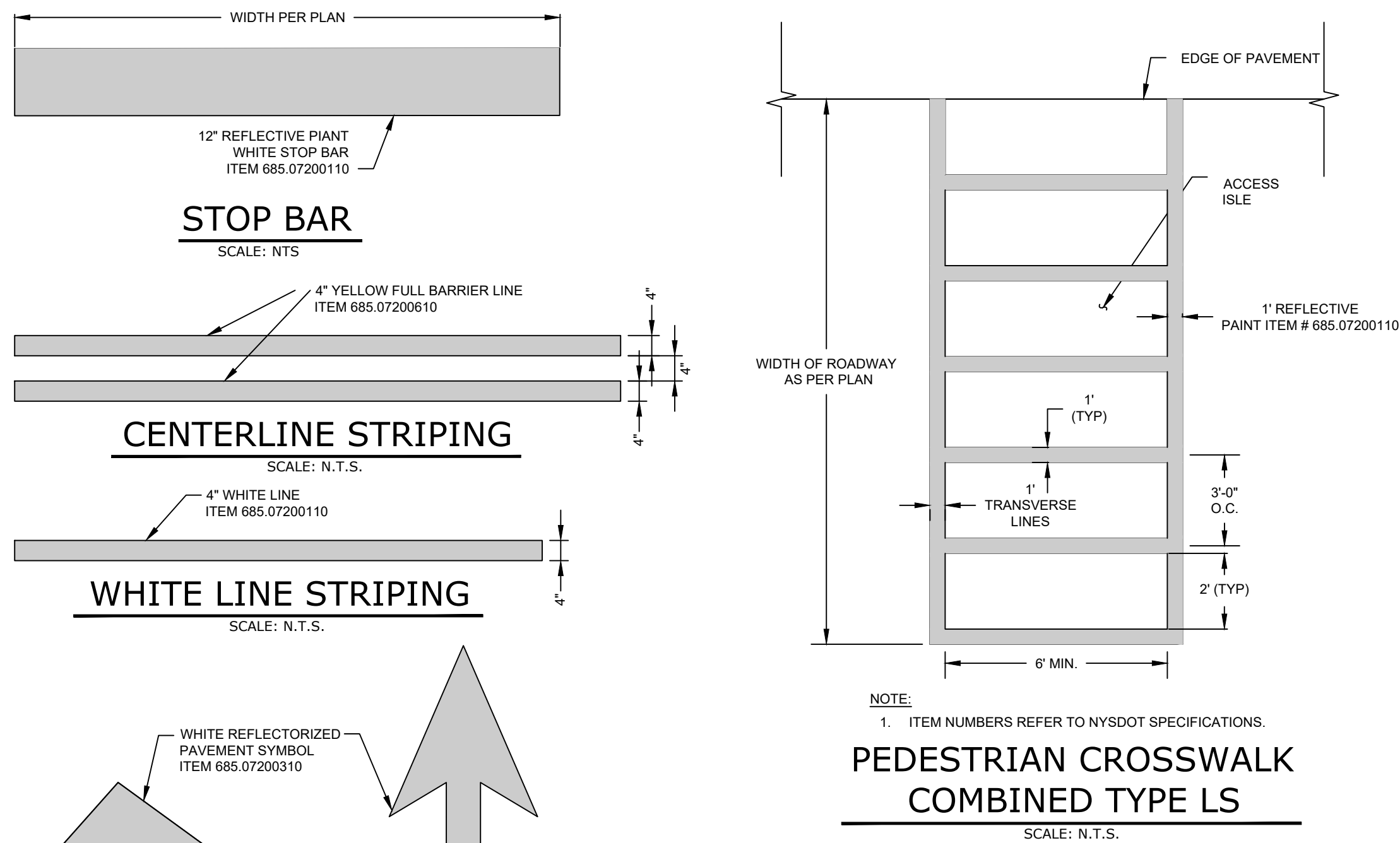
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EROSION & SEDIMENTATION CONTROL DETAILS
EASTGATE - HAVERSTRAW
US ROUTE 202
TOWN OF HAVERSTRAW
ROCKLAND COUNTY, NEW YORK

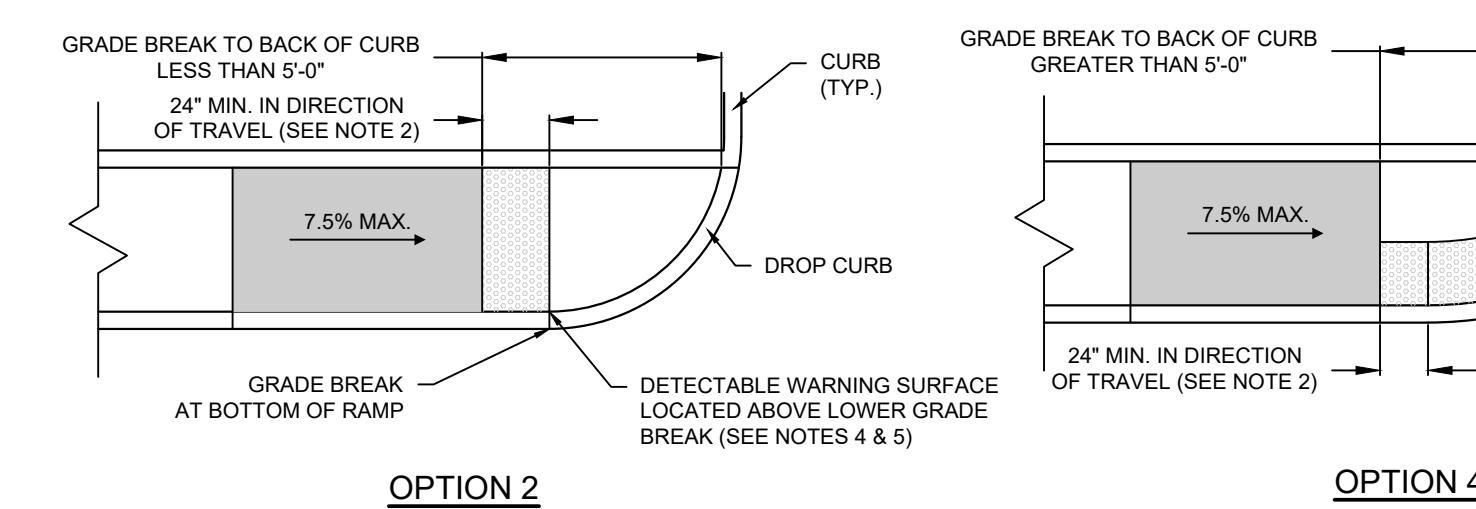
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DATE: 05/05/2024
REVISION: 14 - 01/23/2025
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SCALE: AS NOTED
TAX LOT: 25.19-2.19 & 20

C-305



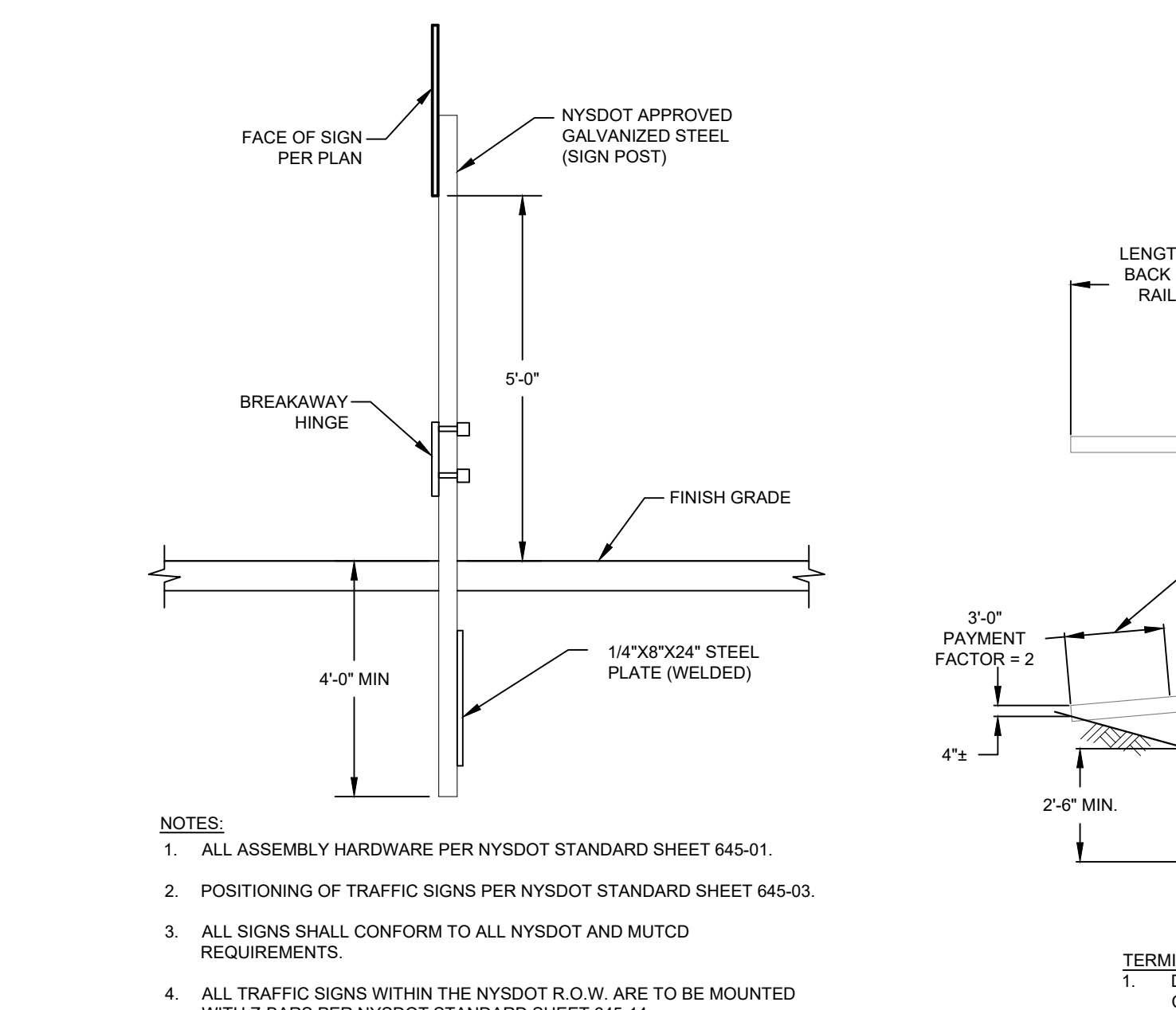
SIGN No.	TEXT	M.U.T.C.D. No.	SIZE OF SIGN	TYPE OF MOUNT	DESCRIPTION
1	STOP	R1-1C	36" x 36"	GR MTD	RED BACKGROUND WHITE LEGEND

NYSDOT SIGN SCHEDULE
SCALE: N.T.S.

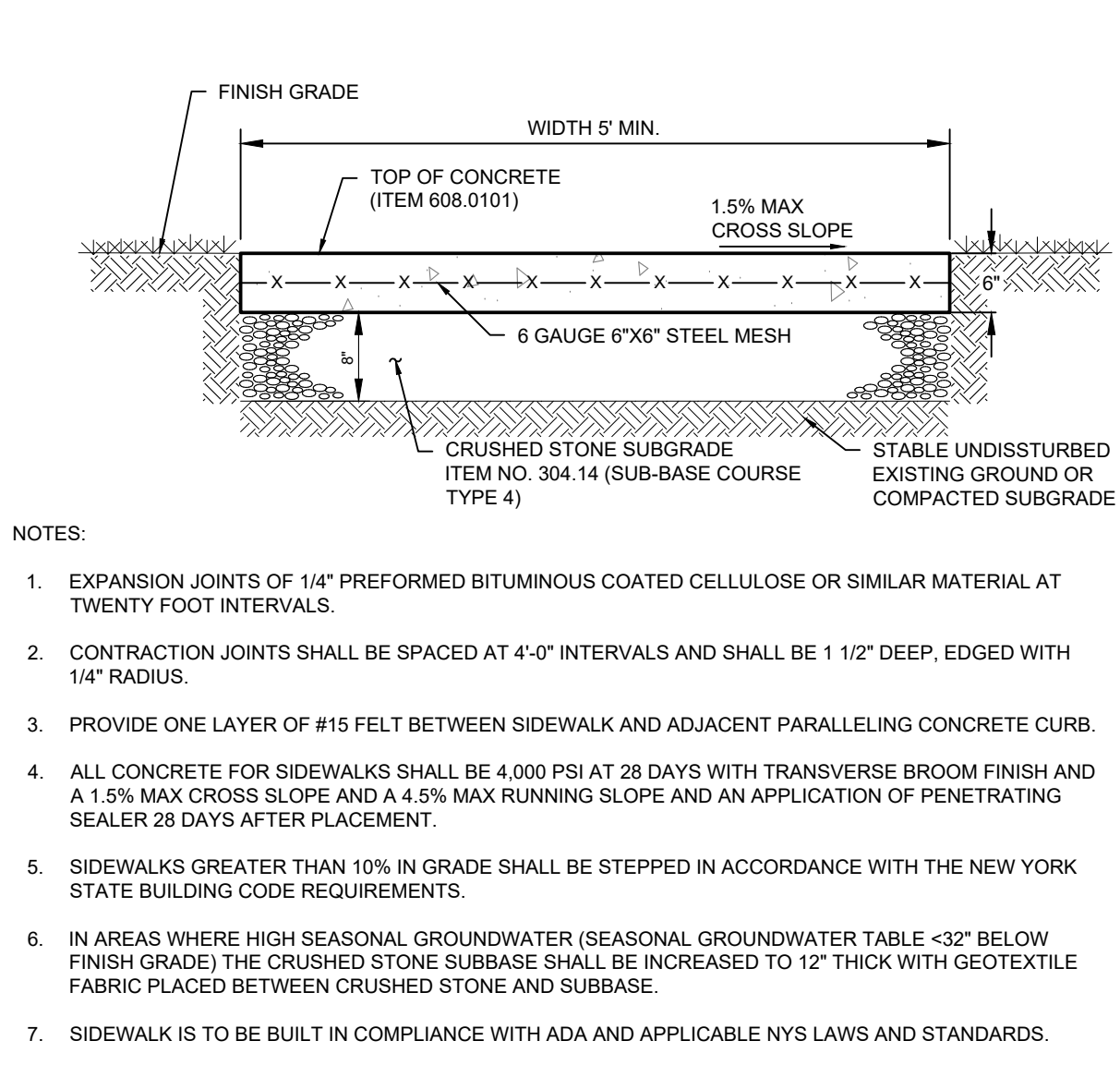


- NOTES:
- DETAIL PER NYSDOT STANDARD SHEET 608-01 SHEET 2 OF 12.
 - DETECTABLE WARNING FIELDS SHALL EXTEND 24" MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL ACROSS THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUDING ANY FLARED SIDES.
 - WHEN PLACED AT THE BACK OF CURB, DETECTABLE WARNING FIELDS SHOULD BE PLACED AS CLOSE TO THE BACK OF THE CURB AS PRACTICABLE, BOTH FRONT CORNERS OF THE DETECTABLE WARNING FIELD SHALL NOT BE LOCATED MORE THAN 2" FROM THE BACK OF CURB, WHERE THE BACK OF CURB EDGE IS TOoled TO PROVIDE A RADIUS, THE BORDER DIMENSION SHALL BE MEASURED FROM THE INSIDE EDGE OF THE CURB RADIUS, WHERE CURB IS NOT USED, THE EDGE OF PAVEMENT SHALL BE SUBSTITUTED FOR THE BACK OF CURB FOR PLACEMENT OF DETECTABLE WARNINGS.
 - WHEN PLACED ABOVE THE LOWER GRADE BREAK OF A CURB RAMP, DETECTABLE WARNING UNITS SHOULD BE PLACED AS CLOSE TO THE JOINT AS PRACTICABLE, BOTH FRONT CORNERS OF RECTILINEAR DETECTABLE WARNING FIELDS SHALL NOT BE LOCATED MORE THAN 2" FROM THE JOINT.
 - ON SLOPES OF 5% OR GREATER, THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK ON THE RAMP RUN, WHERE DOMES ARE ARRANGED RADIAL, THEY MAY DIFFER IN DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON THIS SHEET. DOME ALIGNMENT THAT IS PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK IS NOT REQUIRED ON SLOPES OF LESS THAN 5%.
 - WHEN RADIAL DWS UNITS ARE PLACED AT THE BACK OF THE CURB, THE FRONT EDGE OF THE DWS FIELD SHOULD BE AS CLOSE AS POSSIBLE TO THE BACK OF CURB, I.E., THE RADIUS OF THE FRONT OF THE DWS FIELD SHOULD MATCH THE RADIUS OF THE BACK OF CURB AS CLOSELY AS POSSIBLE. THE OUTSIDE CORNERS OF THE DWS FIELD MUST BE LOCATED NO MORE THAN 2 INCHES FROM THE BACK OF CURB.

DETECTABLE WARNING SURFACE (DWS) PLACEMENT
OPTION DETAILS
SCALE: N.T.S.



NYSDOT R.O.W. SIGNAGE POST
SCALE: N.T.S.



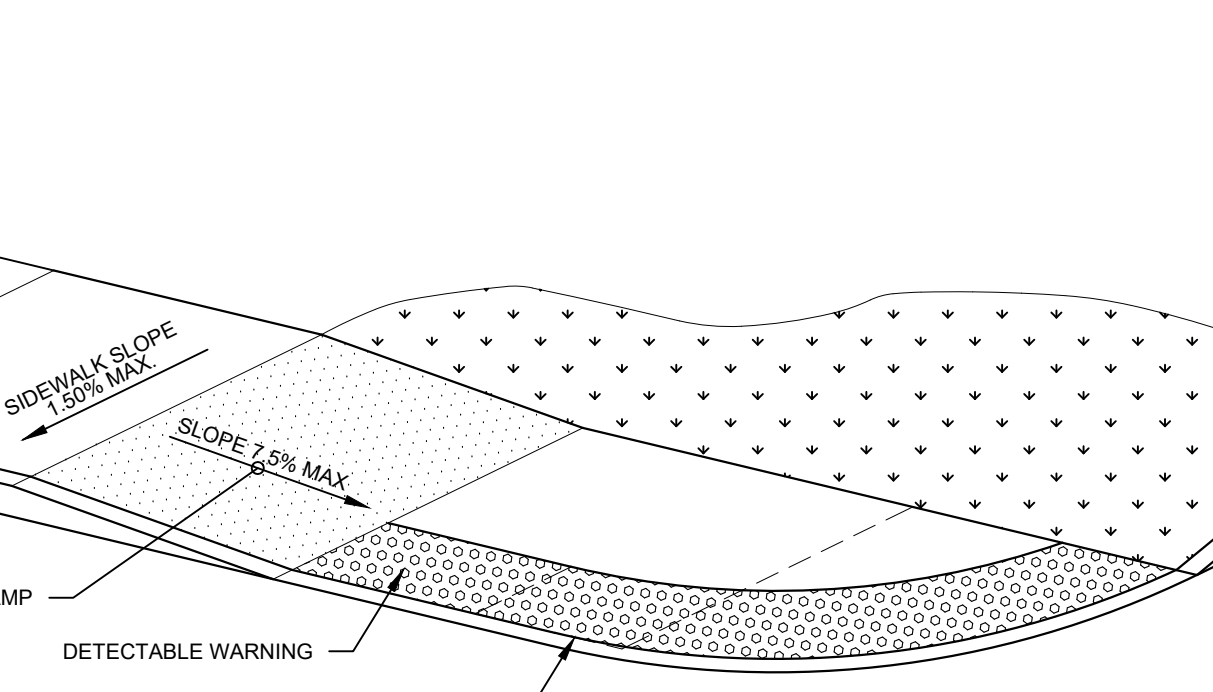
NYSDOT CONCRETE SIDEWALK DETAIL
SCALE: N.T.S.



DETECTABLE WARNING SURFACE (DWS) TRUNCATED DOME DETAILS
SCALE: N.T.S.

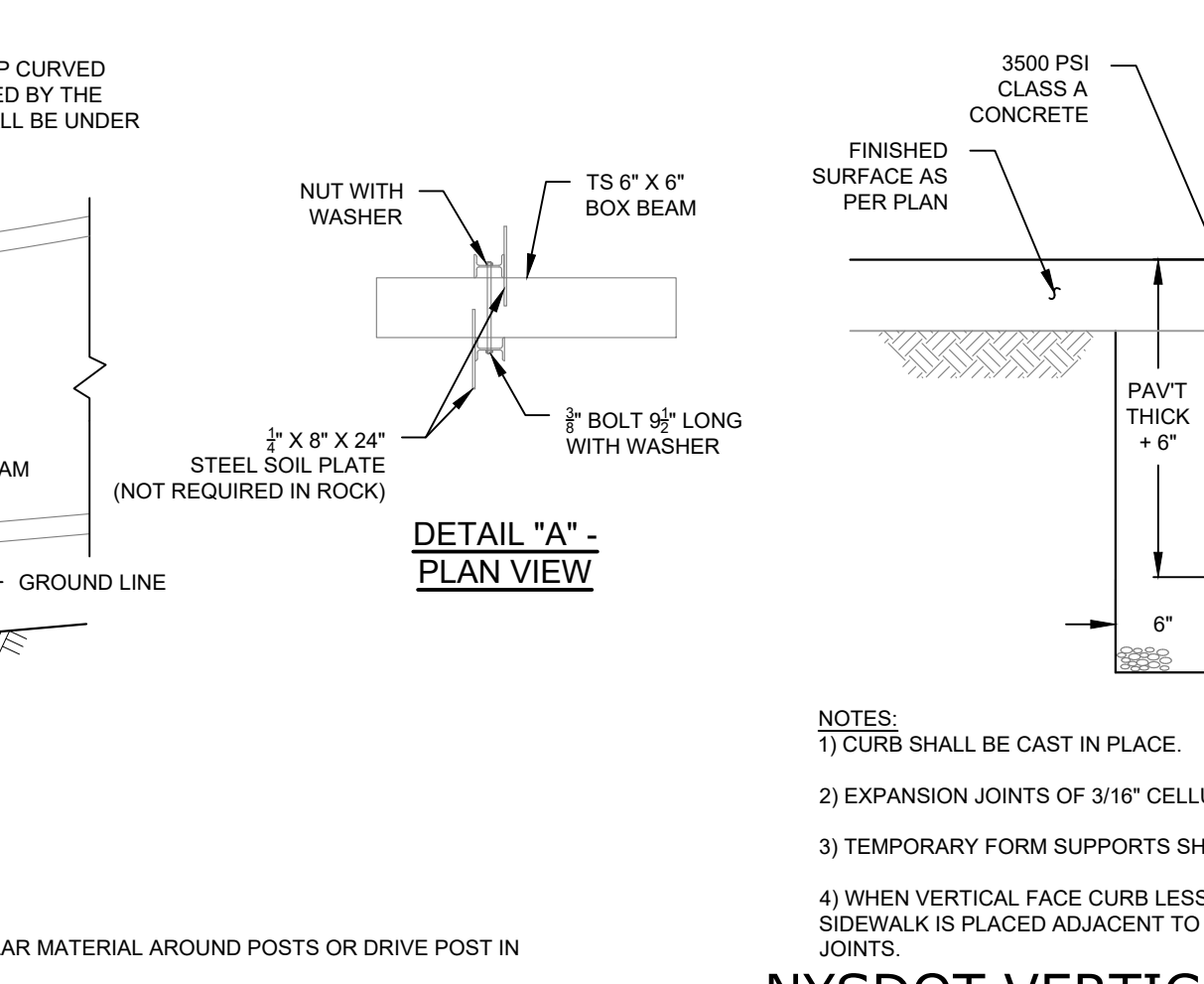


DETECTABLE WARNING SURFACE (DWS) PLACEMENT
SCALE: N.T.S.

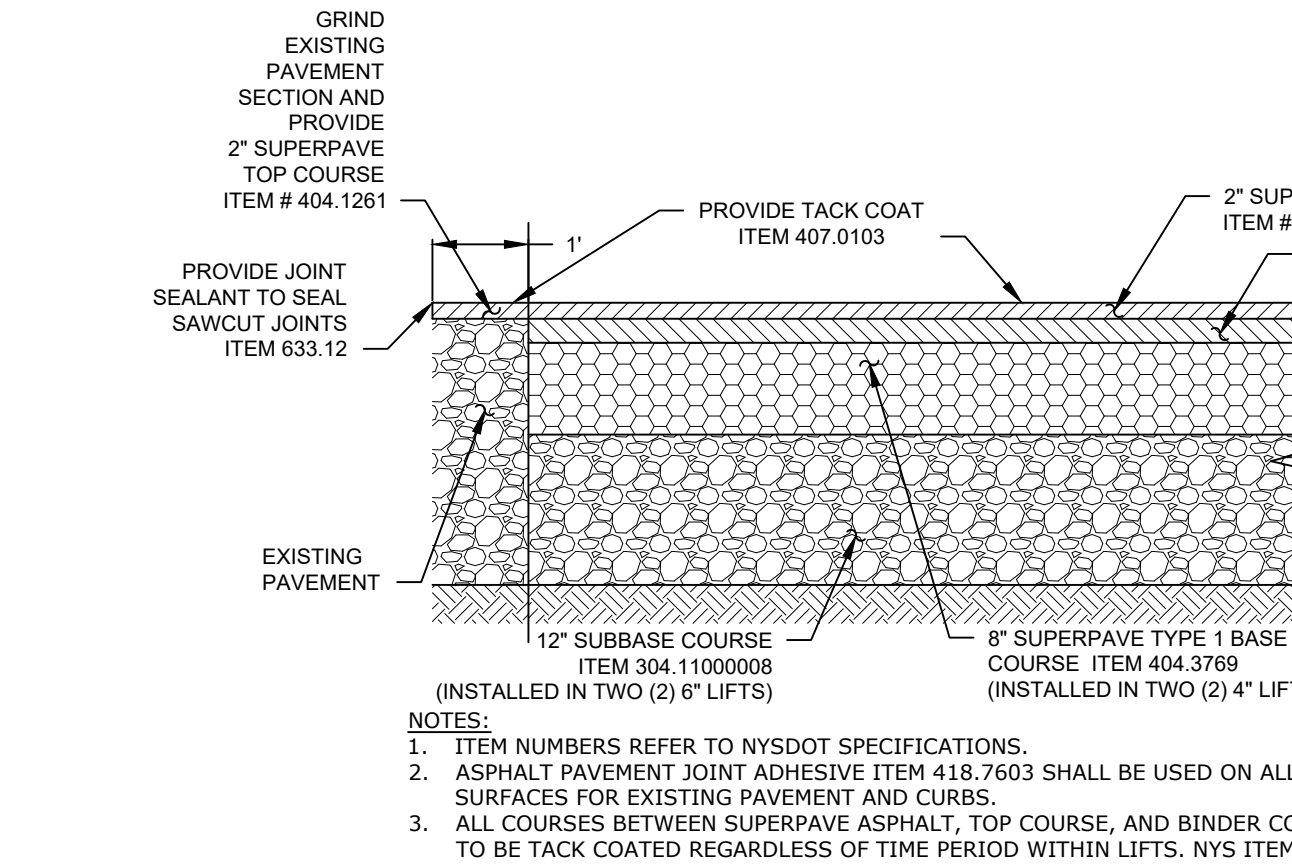


NYSDOT ENTRANCE PROFILE
SCALE: 1" = 30' H | 1" = 3' V

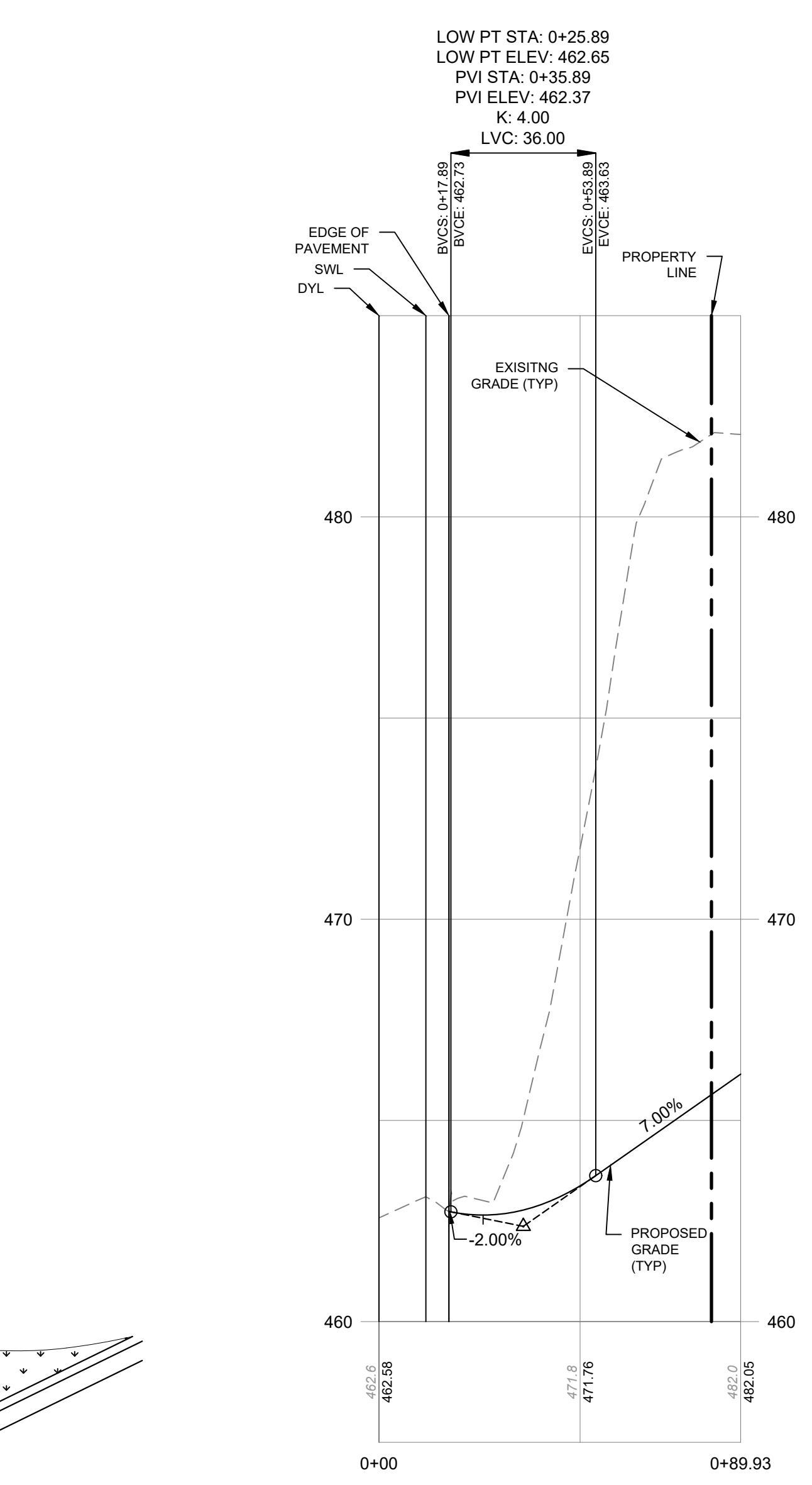
NYSDOT CURB RAMP CONFIGURATION: TYPE 2
SCALE: N.T.S.



NYSDOT CURB RAMP CONFIGURATION: TYPE 2
SCALE: N.T.S.

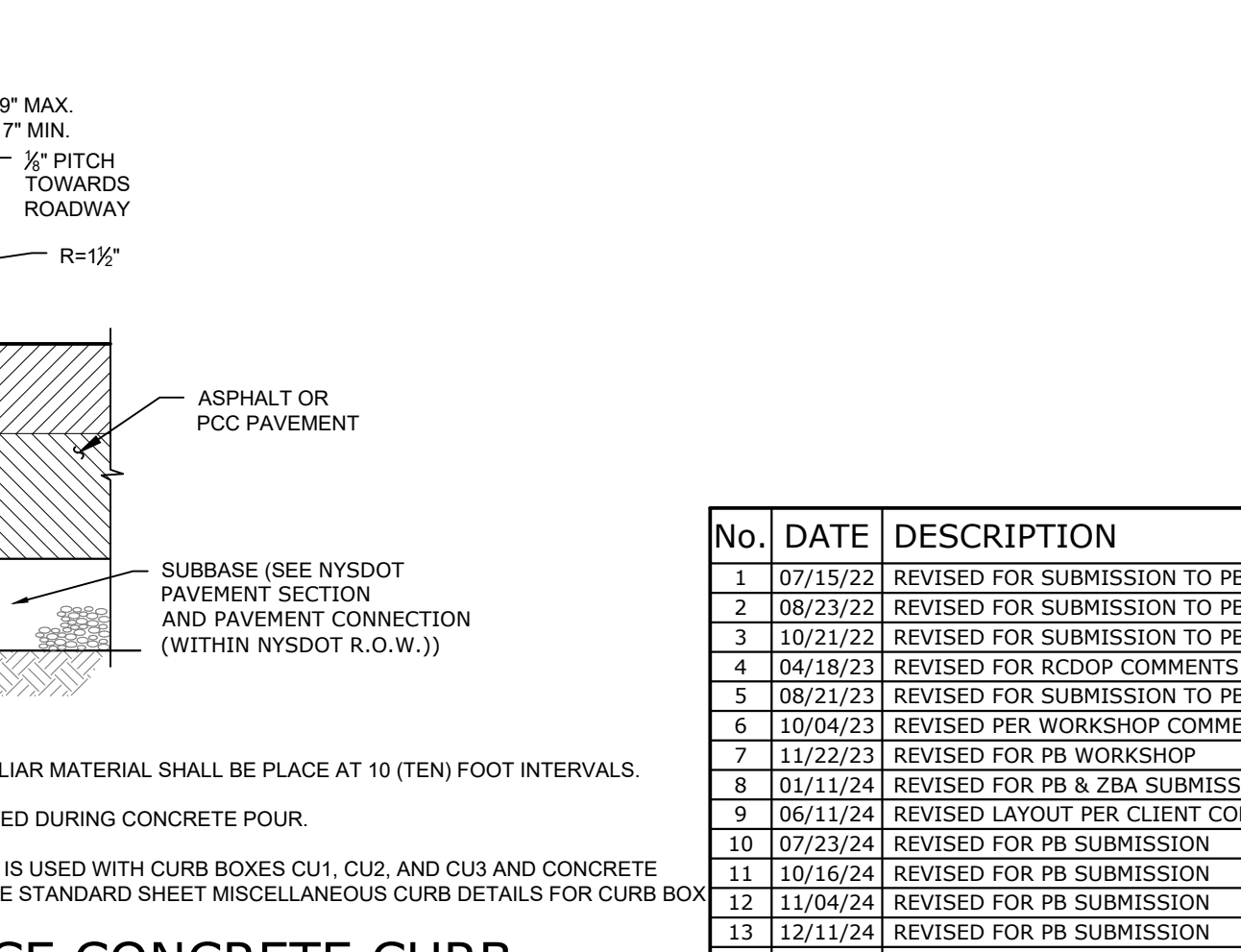


NYSDOT PAVEMENT SECTION AND PAVEMENT CONNECTION (WITHIN NYSDOT R.O.W.)
SCALE: N.T.S.



NYSDOT ENTRANCE PROFILE
SCALE: 1" = 30' H | 1" = 3' V

NYSDOT CURB RAMP CONFIGURATION: TYPE 2
SCALE: N.T.S.

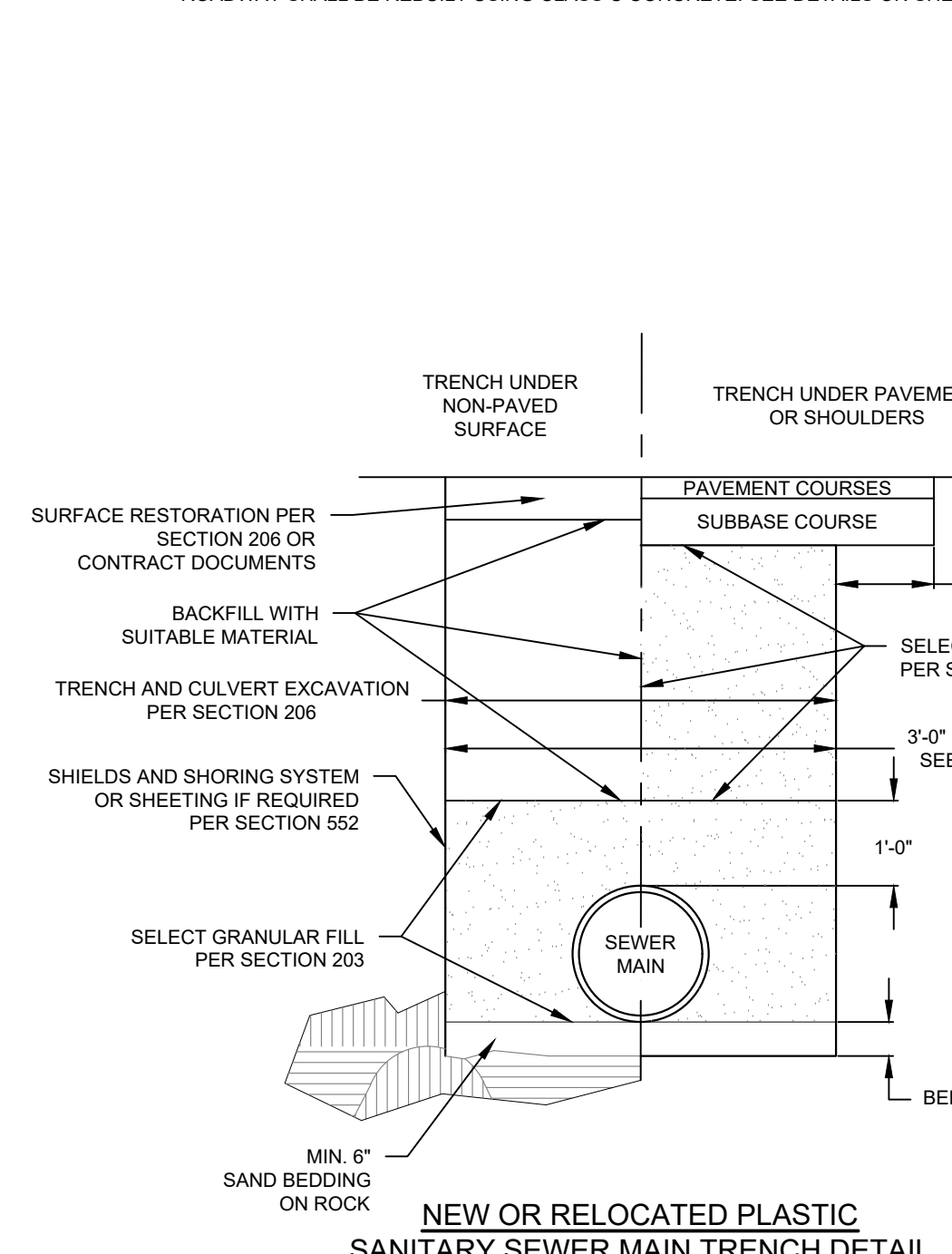


NYSDOT CURB RAMP CONFIGURATION: TYPE 2
SCALE: N.T.S.

SIDEWALK CURB RAMP NOTES

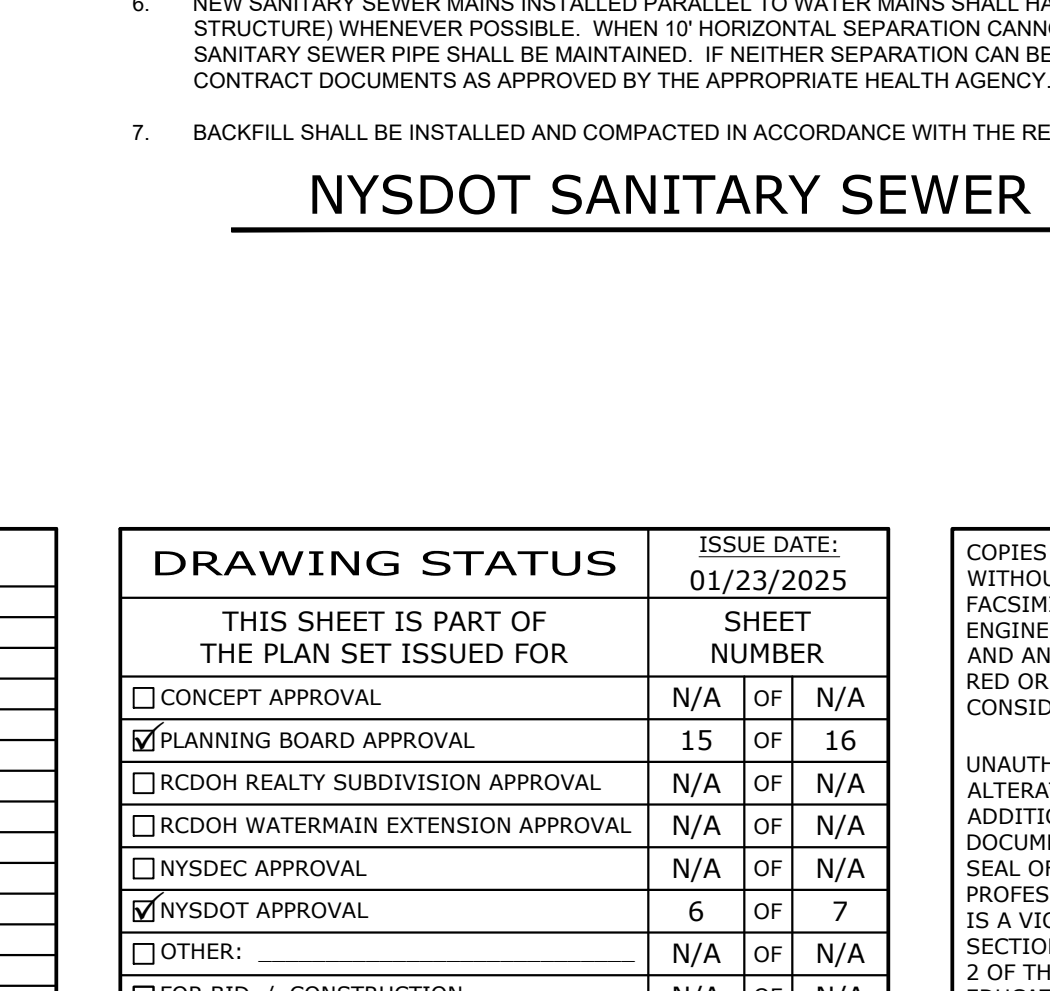
GENERAL NOTES:

- THESE SHEETS ARE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE REQUIREMENTS OF THE 2011 PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT OF WAY (PROW).
- DIMENSIONS SHOWN IN THE DETAILS AS MINIMUMS AND MAXIMUMS ARE THE LIMITS FOR DESIGN AND FIELD LAYOUT. FACILITIES SHALL NOT BE CONSTRUCTED WITH VALUES OUTSIDE THE LIMITS FOR WORK ACCEPTANCE. SEE TABLE DESIGN ELEMENT TOLERANCES ON SHEET 1 OF 9. FURTHER INFORMATION IS PROVIDED ON CRITICAL ELEMENTS FOR THE DESIGN LAYOUT, AND ACCEPTANCE OF PEDESTRIAN FACILITIES AVAILABLE ON THE NYSDOT HIGHWAY DESIGN MANUAL CHAPTER 18 FOR WORK ACCEPTANCE.
- NOT ALL FACILITIES CAN BE CONSTRUCTED TO MEET THE DESIGN STANDARDS. FACILITIES THAT CANNOT BE CONSTRUCTED TO MEET THE DESIGN STANDARDS SHALL BE CONSTRUCTED TO MEET THE STANDARDS TO THE GREATEST EXTENT PRACTICABLE. NONSTANDARD FEATURES SHALL BE JUSTIFIED PER HIGHWAY DESIGN MANUAL CHAPTER 2, EXHIBIT 2-15A.
- TO CHECK FIELD LAYOUT AND TO VERIFY WORK ACCEPTANCE, ALL SLOPES AND GRADES WILL BE MEASURED WITH A 4 FOOT LONG DIGITAL LEVEL USING AT LEAST TWO READINGS, WHERE THE READINGS VARY, THE MEASUREMENTS WILL BE AVERAGED. GRADE (RUNNING SLOPE) WILL BE MEASURED ALONG THE CENTERLINE AND OFFSET 12" TO 18" FROM THE CENTERLINE. CROSS SLOPES WILL BE MEASURED PERPENDICULAR TO CENTERLINE AT 5' TO 10' INTERVALS.
- GRADES (RUNNING SLOPES) ARE MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL. CROSS SLOPES ARE MEASURED PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
- JOINTS BETWEEN SIDEWALKS, CURB RAMPS, TURNING SPACES AND ROADWAYS SHALL BE FLUSH AND FREE FROM ABRUPT VERTICAL CHANGES GREATER THAN VERTICAL SURFACE DISCONTINUITIES BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. THE BEVEL SHALL BE APPLIED ACROSS THE ENTIRE JOINT. SEE DETAIL ON SHEET 2 OF 9.
- SIDEWALKS ARE CONNECTED TO ROADWAYS BY EITHER BLENDED TRANSITIONS OR CURB RAMPS. BLENDED TRANSITIONS ARE CONNECTIONS BETWEEN THE SIDEWALK LEVEL AND THE ROADWAY LEVEL THAT HAVE A MAXIMUM GRADE (RUNNING SLOPE) OF 5%, AND TRANSITIONS GREATER THAN 5% ARE CONSIDERED CURB RAMPS.
- CURB RAMPS AND BLENDED TRANSITIONS MAY REQUIRE THE INSTALLATION OF DETECTABLE WARNINGS. SEE ADDITIONAL "DETECTABLE WARNING NOTES" ON THIS SHEET, AND DETAILS ON SHEET 2 OF 9 FOR DIMENSIONS, ORIENTATION AND INSTALLATION.
- VERTICAL ALIGNMENT SHALL BE GENERALLY PLANAR. GRADE BREAKS WITHIN THE PEDESTRIAN ACCESS ROUTE SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL AND SHALL NOT BE ROUNDED.
- MATERIAL DEPTHS SHOWN ON THESE SHEETS ARE TYPICAL MINIMUM VALUES AND MAY BE DIFFERENT IN THE CONTRACT DOCUMENTS.
- SIDEWALK GRADE (RUNNING SLOPE) SHALL NOT BE DESIGNED TO EXCEED 4.5%, EXCEPT WHEN MATCHING INTO EXISTING SIDEWALK OR WHEN THE HIGHWAY GRADE IS STEEPER. WHEN HIGHWAY GRADE IS GREATER THAN 5%, THE SIDEWALK GRADE SHALL NOT EXCEED THE HIGHWAY GRADE.
- THE CROSS SLOPE OF PEDESTRIAN ACCESS ROUTES SHALL BE 1.5% MAXIMUM FOR DESIGN AND LAYOUT, AND 2% MAXIMUM FOR WORK ACCEPTANCE. THE FOLLOWING EXCEPTIONS ARE ALLOWED:
 - WHERE PEDESTRIAN STREET CROSSINGS ARE PROVIDED AT INTERSECTIONS WITHOUT YIELD OR STOP CONTROL OR WHERE THERE IS ANY TRAFFIC SIGNAL WITHOUT A FLASHING RED, THE CROSS SLOPE OF A PEDESTRIAN ACCESS ROUTE CONTAINED WITHIN A STREET CROSSING SHALL BE 4.5% MAXIMUM FOR DESIGN AND LAYOUT, AND 5% MAXIMUM FOR WORK ACCEPTANCE.
 - WHERE MIDBLOCK PEDESTRIAN STREET CROSSINGS ARE PROVIDED, THE CROSS SLOPE OF A PEDESTRIAN ACCESS ROUTE CONTAINED WITHIN A MIDBLOCK STREET CROSSING SHALL BE PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE.
- THE MINIMUM CLEAR WIDTH FOR PEDESTRIAN ACCESS ROUTES IS 4'-0", EXCLUSIVE OF THE CURB. WHEN WALKWAY WIDTHS ARE LESS THAN 5'-0", 4'-0" X 3'-0" PASSAGEWAYS (SHOWN IN DETAIL A OR B), OR A FEATURE OF EQUAL OR GREATER DIMENSIONS (E.G., DRIVEWAYS) THAT MEET THE SLOPE CRITERIA, SHALL BE PROVIDED AT A MAXIMUM INTERVAL OF 200'. EXISTING DRIVEWAYS AND STREET CROSSING MAY ALSO SERVE AS PASSING SPACES.
- THE BUFFER ZONE IS A PHYSICAL DISTANCE SEPARATING THE PEDESTRIAN ACCESS ROUTE FROM THE VEHICLE TRAVELLED WAY. THE BUFFER ZONE MAY BE PLANTED OR PAVED, WHERE THE BUFFER ZONE WIDTH, EXCLUSIVE OF CURB, IS LESS THAN 3'-0" THE SURFACE SHOULD BE PAVED OR CONSTRUCTED WITH HARDSCAPE MATERIALS.
- THE MAXIMUM RECOMMENDED CROSS SLOPE OF A TURF BUFFER ZONE OR SLOPE TRANSITION BEHIND SIDEWALK IS 25%. BUFFER ZONES WITH A CROSS SLOPE GREATER THAN 25% SHOULD BE PAVED, PLANTED OR CONSTRUCTED WITH HARDSCAPE MATERIALS.
- WHEN CROSSING DRIVEWAYS, THE WORK SHALL BE IN CONFORMANCE WITH STANDARD SHEET 608-03.
- FOR PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS, REFER TO STANDARD SHEET 680-10 FOR DETAILS.
- WHERE EXISTING ROADWAYS ARE SAWCUT TO INSTALL CURBING AND/OR SIDEWALK, THE ROADWAY SHOULD BE SAWCUT AT LEAST 2'-0" FROM THE PROPOSED CURB LINE TO ALLOW FOR ADEQUATE COMPACTION OF ASPHALT. IF SAWCUT IS LESS THAN 2'-0" FROM PROPOSED CURB LINE, THEN THE ROADWAY SHALL BE REBUILT USING CLASS C CONCRETE. SEE DETAILS ON SHEET 9 OF 9.



NYSDOT ENTRANCE PROFILE
SCALE: 1" = 30' H | 1" = 3' V

NYSDOT CURB RAMP CONFIGURATION: TYPE 2
SCALE: N.T.S.



NYSDOT CURB RAMP CONFIGURATION: TYPE 2
SCALE: N.T.S.

CURB RAMPS NOTES:

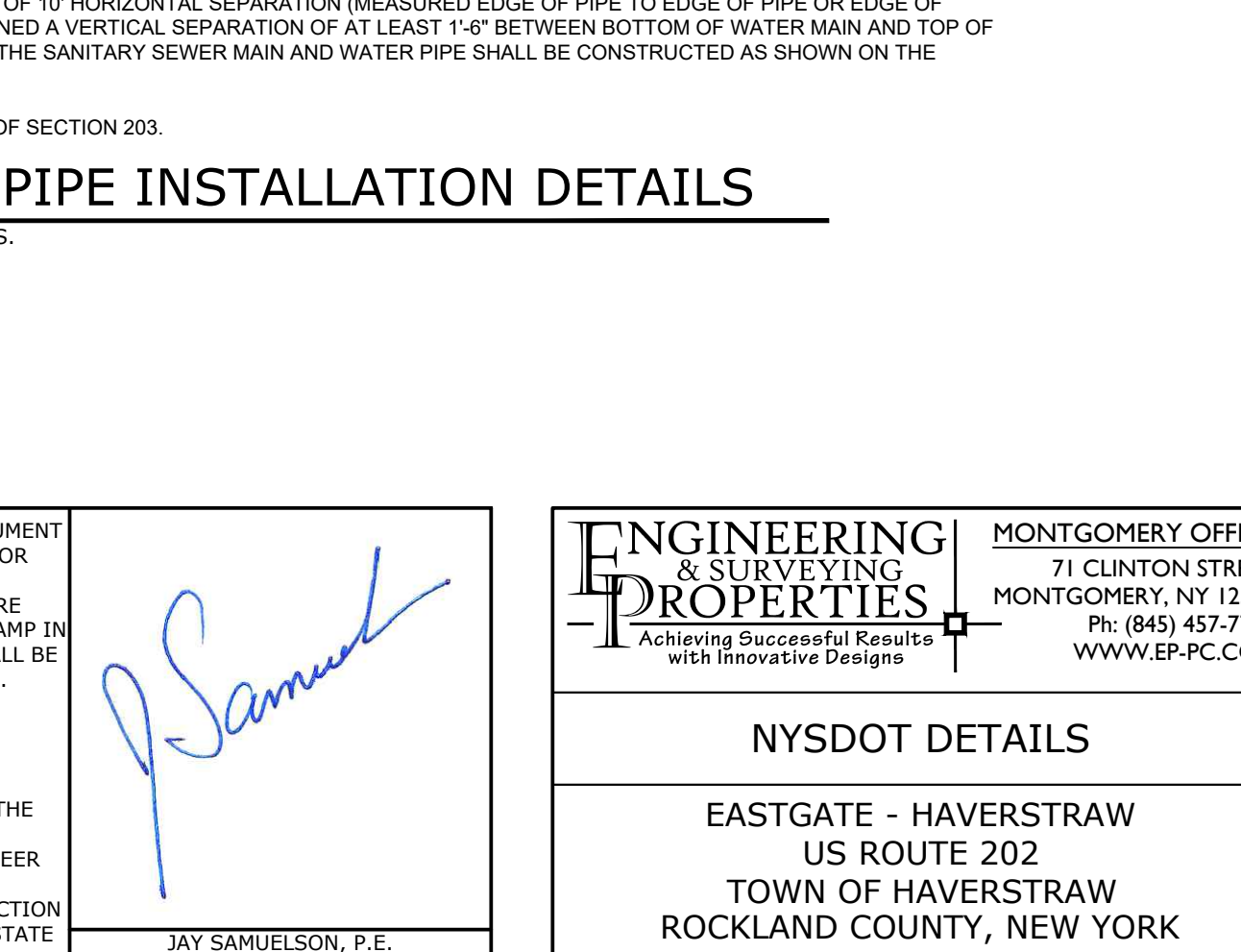
- THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 4'-0".
- THE GRADE (RUNNING SLOPE) OF A CURB RAMP SHALL BE A MINIMUM OF 5%. THE GRADE FOR DESIGN AND LAYOUT SHALL BE A MAXIMUM OF 7.5%. THE GRADE FOR ADA ACCESSIBILITY AND WORK ACCEPTANCE SHALL BE A MAXIMUM OF 8.2%.
- WHERE EXISTING CONDITIONS DO NOT ALLOW THE CONSTRUCTION OF A CURB RAMP WITH A GRADE (RUNNING SLOPE) OF 8.2% OR LESS, THE RAMP LENGTH SHALL NOT BE REQUIRED TO EXCEED 15'-1" FOR DESIGN AND FIELD LAYOUT. THE RAMP LENGTH SHALL NOT BE REQUIRED TO EXCEED 15' FOR WORK ACCEPTANCE.
- THE CROSS SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS POSSIBLE AND STILL PROVIDE POSITIVE DRAINAGE. THE CROSS SLOPE OF A CURB RAMP SHALL BE 1.5% MAXIMUM FOR DESIGN AND LAYOUT, AND 2% MAXIMUM FOR WORK ACCEPTANCE. SEE NOTE 12 FOR EXCEPTIONS. WHERE THE EXISTING ROADWAY GRADE EXCEEDS 2%, THE CURB RAMP MAY BE WARPED ACCORDING TO THE DETAIL ON SHEET 8 OF 9 TO FIT INTO THE DROP CURB.
- RAMP SIDE OPTIONS ARE DETAILED ON SHEET 3 OF 9 FOR USE WITHIN THE BUFFER ZONE, WHERE A PEDESTRIAN CROSSING PATH CROSSES THE CURB RAMP. FLARED SIDES SHALL BE INSTALLED WITH A MAXIMUM SLOPE OF 8.2% FOR DESIGN AND LAYOUT, AND 10% MAXIMUM FOR WORK ACCEPTANCE. THE SLOPE OF FLARED SIDES IS MEASURED PARALLEL TO THE CURB LINE.
- THE BACKSIDE OF A PARALLEL RAMP SHOULD BE GRADED TO A MAXIMUM SLOPE OF 25% TO MATCH EXISTING TERRAIN, UNLESS OTHERWISE SHOWN IN THE CONTRACT DOCUMENTS, WHERE GRADING IS NOT FEASIBLE DUE TO LIMITED ROW OR PHYSICAL CONSTRAINTS, A BACK CURB MAY BE INSTALLED. SEE DETAILS ON SHEET 3 OF 9 AND SHEET 9 OF 9.
- DEPARTMENT PREFERENCE IS TO INSTALL TWO CURB RAMPS AT A STREET CORNER THAT SERVES BOTH CROSSINGS, WHERE EXISTING PHYSICAL CONSTRAINTS PREVENT TWO CURB RAMPS FROM BEING INSTALLED AT A STREET CORNER THAT SERVES BOTH CROSSINGS, A SINGLE DIAGONAL CURB RAMP WILL BE PERMITTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS.

TURNING SPACE AND CLEAR SPACE NOTES:

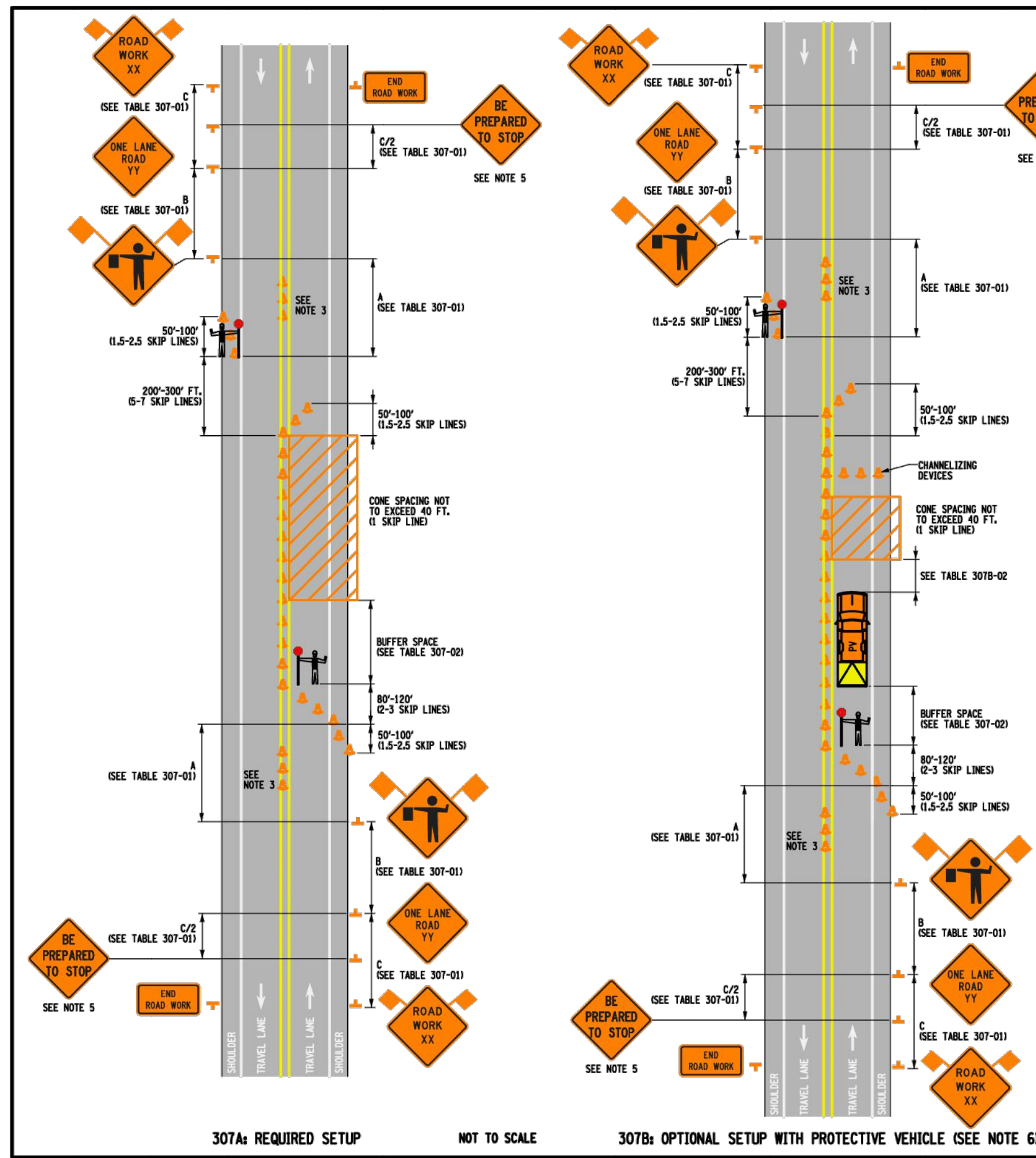
- DETECTABLE WARNING SURFACES (DWS) SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS ON PEDESTRIAN ACCESS ROUTES:
 - CURB RAMPS AND BLENDED TRANSITIONS AT PEDESTRIAN STREET CROSSINGS.
 - PEDESTRIAN REFUGE ISLANDS (WHERE THE LENGTH OF THE PEDESTRIAN ACCESS ROUTE ACROSS THE REFUGE ISLAND IS GREATER THAN OR EQUAL TO 6').
 - PEDESTRIAN AT-GRADE RAIL CROSSINGS NOT LOCATED WITHIN A STREET OR HIGHWAY.
- DETECTABLE WARNING SURFACES SHALL BE PROVIDED WHERE THE PEDESTRIAN ACCESS ROUTE CROSSES DRIVEWAYS WITH SIGNAL, YIELD OR STOP CONTROL. DETECTABLE WARNING SURFACES SHALL NOT BE PROVIDED AT CROSSINGS OF UNCONTROLLED DRIVEWAYS.
- WITH THE EXCEPTION OF THE "DETECTABLE WARNING SURFACE TRUNCATED DOME DETAILS" DETECTABLE WARNING DOMES ON THIS SHEET ARE NOT DEPicted TO SCALE.
- DETECTABLE WARNING FIELDS SHALL EXTEND 24" MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL ACROSS THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUDING ANY FLARED SIDES.
- SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION. BORDERS CANNOT BE INCLUDED AS PART OF THE 24" MINIMUM DIMENSION DESCRIBED IN NOTE 4.
- WHEN PLACED AT THE BACK OF CURB, DETECTABLE WARNING FIELDS SHOULD BE PLACED AS CLOSE TO THE BACK OF THE CURB AS PRACTICABLE. BOTH FRONT CORNERS OF THE DETECTABLE WARNING FIELD SHALL NOT BE LOCATED MORE THAN 2" FROM THE BACK OF CURB, WHERE THE BACK OF CURB EDGE IS TOoled TO PROVIDE A RADIUS, THE BORDER DIMENSION SHALL BE MEASURED FROM THE INSIDE EDGE OF THE CURB RADIUS, WHERE CURB IS NOT USED, THE EDGE OF PAVEMENT SHALL BE SUBSTITUTED FOR THE BACK OF CURB FOR PLACEMENT OF DETECTABLE WARNINGS.
- WHEN PLACED ABOVE THE LOWER GRADE BREAK OF A CURB RAMP, DETECTABLE WARNING UNITS SHOULD BE PLACED AS CLOSE TO THE JOINT AS PRACTICABLE, BOTH FRONT CORNERS OF RECTILINEAR DETECTABLE WARNING FIELDS SHALL NOT BE LOCATED MORE THAN 2" FROM THE JOINT.
- WHEN RADIAL DWS UNITS ARE PLACED AT THE BACK OF THE CURB, THE FRONT EDGE OF THE DWS FIELD SHOULD BE AS CLOSE AS POSSIBLE TO THE BACK OF CURB, I.E., THE RADIUS OF THE FRONT OF THE DWS FIELD SHOULD MATCH THE RADIUS OF THE BACK OF CURB AS CLOSELY AS POSSIBLE. THE OUTSIDE CORNERS OF THE DWS FIELD MUST BE LOCATED NO MORE THAN 2 INCHES FROM THE BACK OF CURB.
- ON SLOPES OF 5% OR GREATER, THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK ON THE RAMP RUN, WHERE DOMES ARE ARRANGED RADIAL, THEY MAY DIFFER IN DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON THIS SHEET. DOME ALIGNMENT THAT IS PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK IS NOT REQUIRED ON SLOPES OF LESS THAN 5%.
- THE DETECTABLE WARNING FIELD SHALL BE THE COLOR SPECIFIED IN THE CONTRACT DOCUMENTS OR MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. DETECTABLE WARNING SURFACES CONTRAST VISUALLY WITH ADJACENT CUTTER, STREET OR HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.

NYSDOT ENTRANCE PROFILE
SCALE: 1" = 30' H | 1" = 3' V

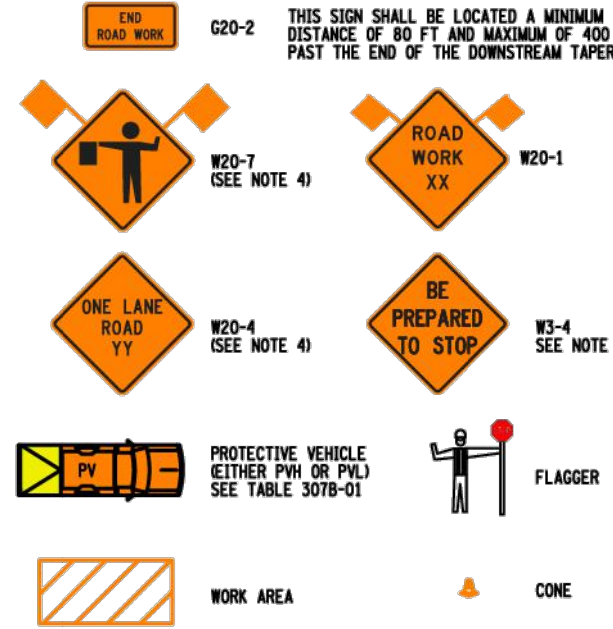
NYSDOT CURB RAMP CONFIGURATION: TYPE 2
SCALE: N.T.S.



NYSDOT CURB RAMP CONFIGURATION: TYPE 2
SCALE: N.T.S.



- NOTES:
1. SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAY PERIOD.
 2. IN URBAN CONDITIONS, ADVANCE WARNING SIGN SPACING MAY BE ADJUSTED IN ORDER TO ACCOMMODATE SIDE STREETS AND DRIVEWAYS. IF THERE IS A CONFLICT, MOVE THE SIGN UPSTREAM.
 3. CENTERLINE CONES MAY BE ADDED TO ENHANCE THE VISIBILITY OF THE FLAGGER STATION. IF CONES ARE USED, PLACE THEM WITH 15' MINIMUM FROM FLAGGERS.
 4. FLAGGER SYMBOL SIGN (W20-7) AND "ONE LANE ROAD AHEAD" SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AROUND FROM ROAD SIDE WHEN FLAGGERS OPERATIONS ARE NOT OCCURRING.
 5. IF THE TRAFFIC IS EXPECTED TO QUEUE PAST THE W20-4 SIGN, W20-4 SIGN SHOULD BE ADDED.
 6. PROTECTIVE VEHICLE WITH APPROPRIATE ROLL AHEAD DISTANCE MAY BE USED IN ADVANCE OF THE WORK AREA. IF DEEMED NECESSARY BY THE DOT ENGINEER OR THEIR DESIGNEE, TO USE PROTECTIVE VEHICLE, BUFFER SPACE SHALL BE PROVIDED ACCORDINGLY.
 7. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE, TRAFFIC CONTROL, AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.
 8. CHANNELIZING DEVICE SPACING CENTER TO CENTER SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
 9. CHANNELIZING DEVICES SHALL BE PLACED TRANSVERSELY A MINIMUM OF EVERY BODY AS SHOWN WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 100'. THE PAVEMENT TO THE PERMANENT DRIVEWAY, BUT THE FLAG MAY BE USED AT INTERSECTIONS WHERE THE STOP/SLIP PAVEMENT HOLD OFFER CONTRASTING INFORMATION TO TRAVELING IN OPPOSITE DIRECTIONS/LEADS OF THE INTERSECTION OR DURING INCIDENT MANAGEMENT SITUATIONS.
 10. ALL FLAGGERS SHALL USE 10-MINUTE INTERVAL SHOWN STOP/SLIP INDICATOR IF STAFF, THE PAVEMENT TO THE PERMANENT DRIVEWAY, BUT THE FLAG MAY BE USED AT INTERSECTIONS WHERE THE STOP/SLIP PAVEMENT HOLD OFFER CONTRASTING INFORMATION TO TRAVELING IN OPPOSITE DIRECTIONS/LEADS OF THE INTERSECTION OR DURING INCIDENT MANAGEMENT SITUATIONS.



REFER TO SHEET 2 OF 2 FOR ALL TABLES

NEW YORK STATE OF NEW YORK
Department of Transportation

U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL
TWO-LANE TWO-WAY ROADWAY
LANE CLOSURE WITH FLAGGERS
SHORT TERM OPERATION
(SHEET 1 OF 2)

APPROVED DECEMBER 2, 2021 ISSUED UNDER ET 21-008
Robert L. Longenecker
ROBERT L. LONGENECKER, P.E.
DIRECTOR, OTSM

619-307

ROAD TYPE	DISTANCE BETWEEN SIGNS					SIGN LEGEND
	A (F.T.)	B (F.T.)	C (F.T.)	XX	YY	
URBAN (≤ 30 MPH)	100	100	100	AHEAD	AHEAD	
URBAN (30-45 MPH)	100	200	200	AHEAD	AHEAD	
URBAN (45-55 MPH)	350	350	350	1000 FT. AHEAD	1000 FT. AHEAD	
RURAL	100	200	300	1500 FT. AHEAD	1500 FT. AHEAD	

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE	
	POSTED SPEED LIMIT (MPH)	MINIMUM DISTANCE (F.T.)
25	150/4	
30	200/5	
35	250/6	
40	300/8	
45	350/9	
50	425/11	
55	495/13	

SDN	NON-FREEMAN	FREEMAN
SDN-2	36x18	48x24
W-4	36x36	48x48
W-20	36x36	48x48
W-21	36x36	48x48
W-22	36x36	48x48
W-23	36x36	48x48
W-24	36x36	48x48
W-25	36x36	48x48
W-26	36x36	48x48
W-27	36x36	48x48
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W-29	36x36	48x48
W-30	36x36	48x48
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W-34	36x36	48x48
W-35	36x36	48x48
W-36	36x36	48x48
W-37	36x36	48x48
W-38	36x36	48x48
W-39	36x36	48x48
W-40	36x36	48x48
W-41	36x36	48x48
W-42	36x36	48x48
W-43	36x36	48x48
W-44	36x36	48x48
W-45	36x36	48x48
W-46	36x36	48x48
W-47	36x36	48x48
W-48	36x36	48x48
W-49	36x36	48x48
W-50	36x36	48x48
W-51	36x36	48x48
W-52	36x36	48x48
W-53	36x36	48x48
W-54	36x36	48x48
W-55	36x36	48x48
W-56	36x36	48x48
W-57	36x36	48x48
W-58	36x36	48x48
W-59	36x36	48x48
W-60	36x36	48x48
W-61	36x36	48x48
W-62	36x36	48x48
W-63	36x36	48x48
W-64	36x36	48x48
W-65	36x36	48x48
W-66	36x36	48x48
W-67	36x36	48x48
W-68	36x36	48x48
W-69	36x36	48x48
W-70	36x36	48x48
W-71	36x36	48x48
W-72	36x36	48x48
W-73	36x36	48x48
W-74	36x36	48x48
W-75	36x36	48x48
W-76	36x36	48x48
W-77	36x36	48x48
W-78	36x36	48x48
W-79	36x36	48x48
W-80	36x36	48x48
W-81	36x36	48x48
W-82	36x36	48x48
W-83	36x36	48x48
W-84	36x36	48x48
W-85	36x36	48x48
W-86	36x36	48x48
W-87	36x36	48x48
W-88	36x36	48x48
W-89	36x36	48x48
W-90	36x36	48x48
W-91	36x36	48x48
W-92	36x36	48x48
W-93	36x36	48x48
W-94	36x36	48x48
W-95	36x36	48x48
W-96	36x36	48x48
W-97	36x36	48x48
W-98	36x36	48x48
W-99	36x36	48x48
W-100	36x36	48x48

SDN	NON-FREEMAN	FREEMAN
SDN-2	36x18	48x24
W-4	36x36	48x48
W-20	36x36	48x48
W-21	36x36	48x48
W-22	36x36	48x48
W-23	36x36	48x48
W-24	36x36	48x48
W-25	36x36	48x48
W-26	36x36	48x48
W-27	36x36	48x48
W-28	36x36	48x48
W-29	36x36	48x48
W-30	36x36	48x48
W-31	36x36	48x48
W-32	36x36	48x48
W-33	36x36	48x48
W-34	36x36	48x48
W-35	36x36	48x48
W-36	36x36	48x48
W-37	36x36	48x48
W-38	36x36	48x48
W-39	36x36	48x48
W-40	36x36	48x48
W-41	36x36	48x48
W-42	36x36	48x48
W-43	36x36	48x48
W-44	36x36	48x48
W-45	36x36	48x48
W-46	36x36	48x48
W-47	36x36	48x48
W-48	36x36	48x48
W-49	36x36	48x48
W-50	36x36	48x48
W-51	36x36	48x48
W-52	36x36	48x48
W-53	36x36	48x48
W-54	36x36	48x48
W-55	36x36	48x48
W-56	36x36	48x48
W-57	36x36	48x48
W-58	36x36	48x48
W-59	36x36	48x48
W-60	36x36	48x48
W-61	36x36	48x48
W-62	36x36	48x48
W-63	36x36	48x48
W-64	36x36	48x48
W-65	36x36	48x48
W-66	36x36	48x48
W-67	36x36	48x48
W-68	36x36	48x48
W-69	36x36	48x48
W-70	36x36	48x48
W-71	36x36	48x48
W-72	36x36	48x48
W-73	36x36	48x48
W-74	36x36	48x48
W-75	36x36	48x48
W-76	36x36	48x48
W-77	36x36	48x48
W-78	36x36	48x48
W-79	36x36	48x48
W-80	36x36	48x48
W-81	36x36	48x48
W-82	36x36	48x48
W-83	36x36	48x48
W-84	36x36	48x48
W-85	36x36	48x48
W-86	36x36	48x48
W-87	36x36	48x48
W-88	36x36	48x48
W-89	36x36	48x48
W-90	36x36	48x48
W-91	36x36	48x48
W-92	36x36	48x48
W-93	36x36	48x48
W-94	36x36	48x48
W-95	36x36	48x48
W-96	36x36	48x48
W-97	36x36	48x48
W-98	36x36	48x48
W-99	36x36	48x48
W-100	36x36	48x48

SDN	NON-FREEMAN	FREEMAN
SDN-2	36x18	48x24
W-4	36x36	48x48
W-20	36x36	48x48
W-21	36x36	48x48
W-22	36x36	48x48
W-23	36x36	48x48
W-24	36x36	48x48
W-25	36x36	48x48
W-26	36x36	48x48
W-27	36x36	48x48
W-28	36x36	48x48
W-29	36x36	48x48
W-30	36x36	48x48
W-31	36x36	48x48
W-32	36x36	48x48
W-33	36x36	48x48
W-34	36x36	48x48
W-35	36x36	48x48
W-36	36x36	48x48
W-37	36x36	48x48
W-38	36x36	48x48
W-39	36x36	48x48
W-40	36x36	48x48
W-41	36x36	48x48
W-42	36x36	48x48
W-43	36x36	48x48
W-44	36x36	48x48
W-45	36x36	48x48
W-46	36x36	48x48
W-47	36x36	48x48
W-48	36x36	48x48
W-49	36x36	48x48
W-50	36x36	48x48
W-51	36x36	48x48
W-52	36x36	48x48
W-53	36x36	48x48
W-54	36x36	48x48
W-55	36x36	48x48
W-56	36x36	48x48
W-57	36x36	48x48
W-58	36x36	48x48
W-59	36x36	48x48
W-60	36x36	48x48
W-61	36x36	48x48
W-62	36x36	48x48
W-63	36x36	48x48
W-64	36x36	48x48
W-65	36x36	48x48
W-66	36x36	48x48
W-67	36x36	48x48
W-68	36x36	48x48
W-69	36x36	48x48
W-70	36x36	48x48
W-71	36x36	48x48
W-72	36x36	48x48
W-73	36x36	48x48
W-74	36x36	48x48
W-75	36x36	48x48
W-76	36x36	48x48
W-77	36x36	48x48
W-78	36x36	48x48
W-79	36x36	48x48
W-80	36x36	48x48
W-81	36x36	48x48
W-82	36x36	48x48
W-83	36x36	48x48
W-84	36x36	48x48
W-85	36x36	48x48
W-86	36x36	48x48
W-87	36x36	48x48
W-88	36x36	48x48
W-89	36x36	48x48
W-90	36x36	48x48
W-91	36x36	48x48
W-92	36x36	48x48
W-93	36x36	48x48
W-94	36x36	48x48
W-95	36x36	48x48
W-96	36x36	48x48
W-97	36x36	48x48
W-98	36x36	48x48
W-99	36x36	48x48
W-100	36x36	48x48

CLOSURE TYPE	ROAD TYPE & SPEED	DISTANCE BETWEEN SIGNS			SIGN LEGEND
		A (F.T.)	B (F.T.)	C (F.T.)	
LANE CLOSURE ON ENCHANCEMENT	URBAN (≤ 30 MPH)	100	100	100	AHEAD
LANE CLOSURE ON ENCHANCEMENT	URBAN (30-45 MPH)	100	200	200	AHEAD
LANE CLOSURE ON ENCHANCEMENT	URBAN (45-55 MPH)	350	350	350	1000 FT. AHEAD
LANE CLOSURE ON ENCHANCEMENT	RURAL	100	200	300	1500 FT. AHEAD

TABLE 307B-02: ROLL AHEAD DISTANCE FOR PROTECTIVE VEHICLES		
ROLL AHEAD DISTANCE (FT)/* OF SKIP LINES FOR VEHICLES		
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	PROTECTIVE VEHICLES WEIGHING 9,500 TO 21,999 LBS. GVW	PROTECTIVE VEHICLES WEIGHING 22,000 LBS. OR GREATER GVW
	45 - 55	120/3
≤ 40	120/3	80/2