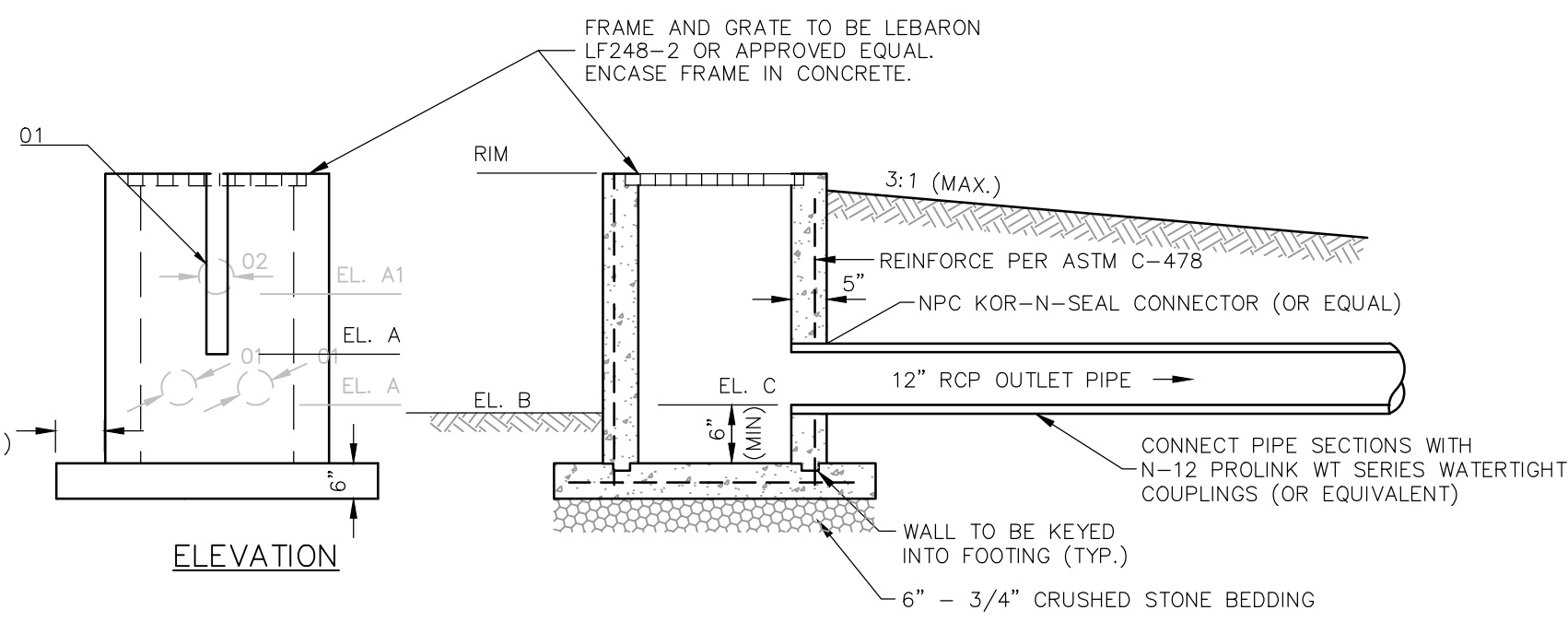


- NOTES:
1. ALL CEMENT CONCRETE TO BE 4000 PSI
 2. STRUCTURE SHALL CONFORM TO ASTM C-478



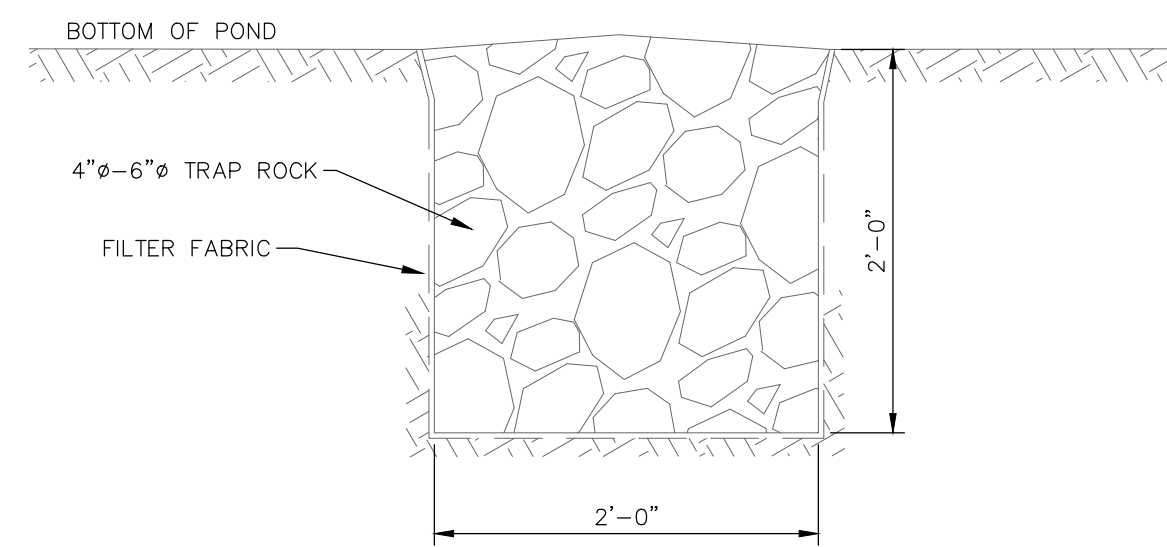
LOCATION	O1	EL. A	EL. B	EL. C	RIM
OUTLET STRUCTURE 2	4" WIDE	262.50	259.80	262.10	264.00
OUTLET STRUCTURE 3	2" WIDE*	257.40	257.20	257.80	260.40
OUTLET STRUCTURE 4	4" WIDE	253.70	251.90	253.70	255.40

*THE AS-BUILT ORIFICE IS 4" WIDE. TO MEET TOWN REGULATIONS FOR STORMWATER MANAGEMENT, THE ORIFICE WIDTH SHOULD BE REDUCED TO 2" WIDE BY BOLTING A PLATE ALONG ONE SIDE OF THE VERTICAL WEIR TO ACCOMPLISH THE DESIRED WIDTH.

*PRE-CAST DETENTION BASIN OUTLET STRUCTURE DETAILS ARE REVISED TO REFLECT AS-BUILT CONDITIONS AND REQUIREMENTS FOR TOWN STORM WATER STANDARDS. REMAINING DETAILS MATCH PRIOR APPROVAL BY TOWN.

PRE-CAST DETENTION BASIN OUTLET STRUCTURE DETAILS

NOT TO SCALE



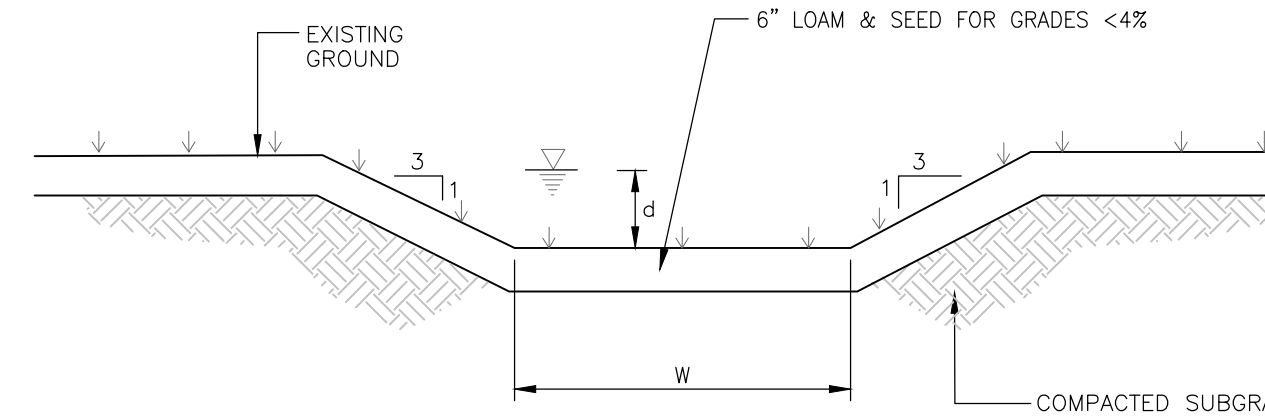
NOTE
TO BE INSTALLED AFTER POND SLOPES HAVE BEEN STABILIZED.

POND DRAIN WICK

NOT TO SCALE

MAINTENANCE

1. DRAINAGE CHANNELS SHOULD BE INSPECTED ON A SEMI-ANNUAL BASIS. ADDITIONAL INSPECTIONS SHOULD BE SCHEDULED DURING THE FIRST FEW MONTHS TO VERIFY VEGETATION IN THE CHANNEL BECOMES ADEQUATELY ESTABLISHED.
2. DRAINAGE CHANNELS SHOULD BE MOWED AT LEAST ONCE PER YEAR. THE GRASS SHOULD NOT BE CUT SHORTER THAN FOUR INCHES AS THE EFFECTIVENESS OF THE VEGETATION IN REDUCING FLOW VELOCITY AND POLLUTANT REMOVAL MAY BE REDUCED. REMOVE CLIPPINGS FROM SITE.
3. REGULAR MAINTENANCE TASKS INCLUDE MOWING, FERTILIZING, LIMING, WATERING, PRUNING AND WEED AND PEST CONTROL.
4. SEDIMENT AND DEBRIS SHOULD BE REMOVED MANUALLY, AT LEAST ONCE PER YEAR, AND PERIODIC RESEEDING MAY BE REQUIRED TO MAINTAIN THE DENSE GROWTH OF VEGETATION.



DRAINAGE CHANNEL	LENGTH	WIDTH	d DESIGN	S FT/FT	V FPS	Q DESIGN	Q CAPACITY
2	100'	3'	1'	0.039	1.49	0.30 CFS	43.75 CFS
4	122'	3'	1'	0.0328	1.14	0.17 CFS	40.11 CFS
5	150'	3'	1'	0.0127	0.0	0.0 CFS	24.93 CFS

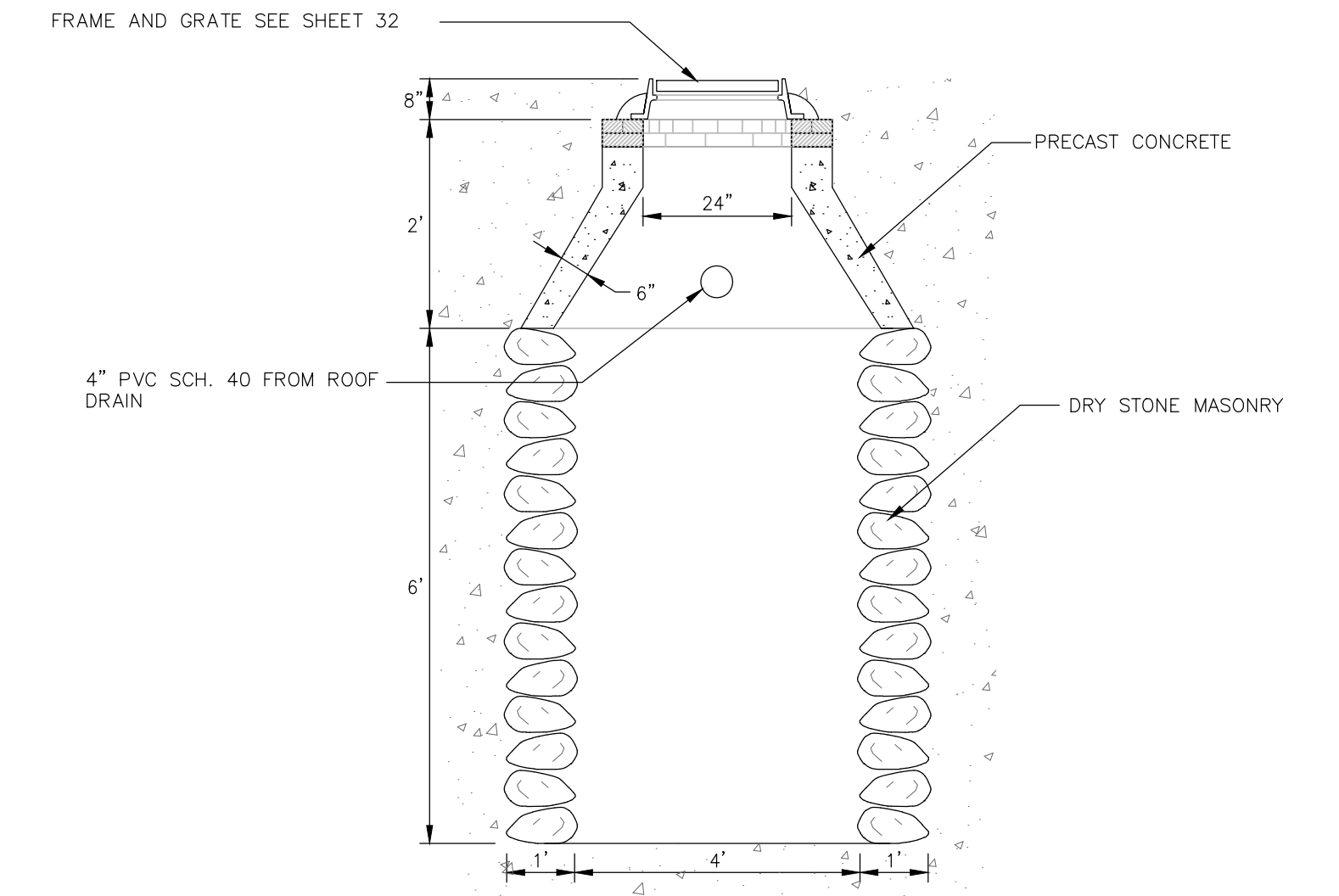
DRAINAGE CHANNEL

* NO FLOW IN 10 YEAR STORM EVENT

NOT TO SCALE

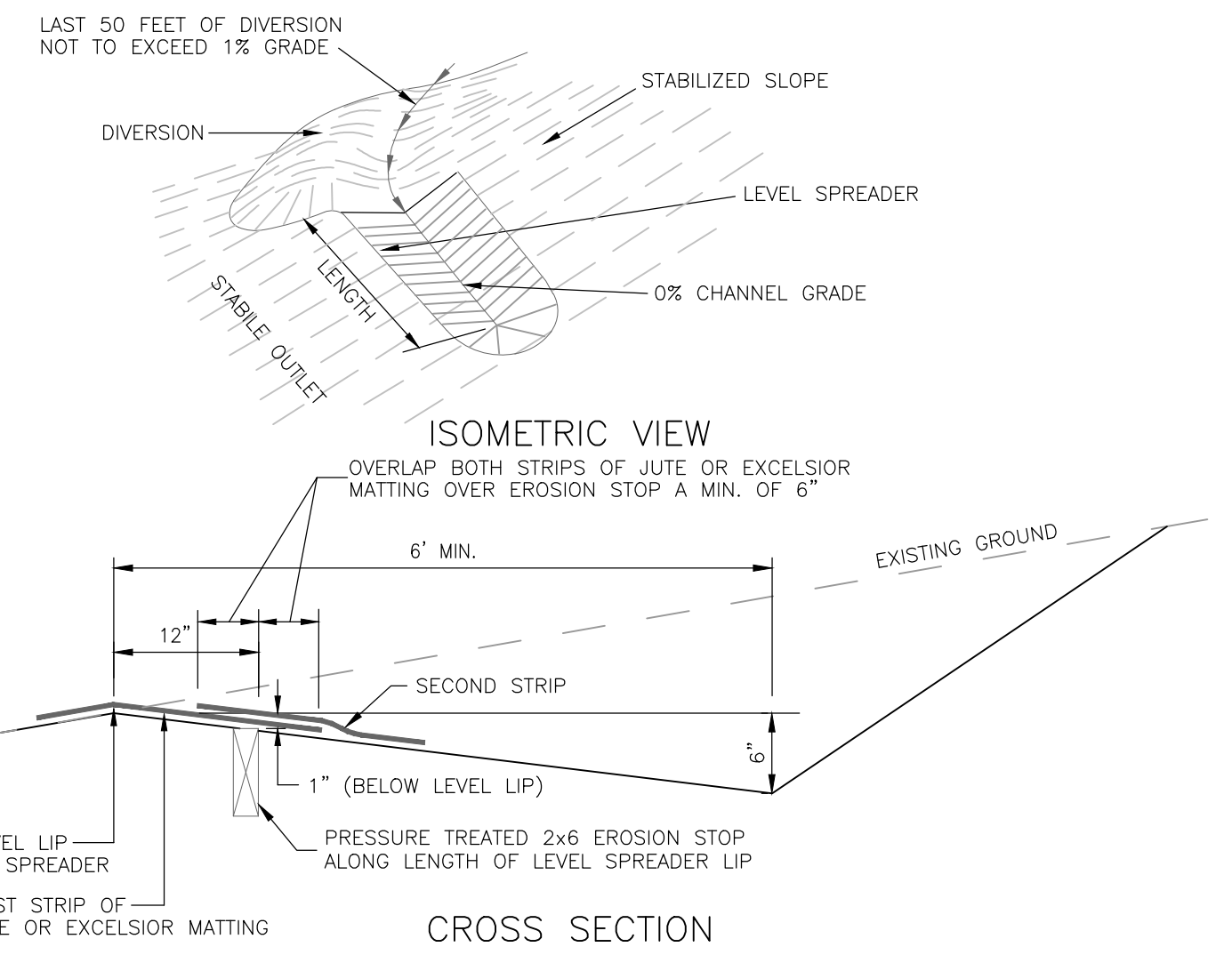
OPERATION AND MAINTENANCE

1. DISCHARGE LOCATIONS SHALL BE INSPECTED ON A WEEKLY BASIS OR AFTER SIGNIFICANT STORM EVENTS (STORMS WITH RAINFALL AMOUNTS GREATER THAN ONE INCH).
2. CATCH BASIN SUMPS ARE TO BE INSPECTED AND CLEANED 4 TIMES A YEAR OR AS NEEDED.
3. SEDIMENT FOREBAYS ARE TO BE INSPECTED EACH SPRING AND FALL. SEDIMENT BUILDUP AT OUTLET PIPES SHALL BE REMOVED IMMEDIATELY. THE FOREBAYS ARE TO BE CLEANED WHEN SEDIMENT BUILD UP EXCEEDS 1 FOOT IN DEPTH OR AT LEAST ONCE EVERY 5 YEARS.
4. DETENTION BASIN DISCHARGE LOCATIONS SHALL BE INSPECTED AFTER EACH SIGNIFICANT RAINFALL EVENT AND AT LEAST MONTHLY FOR THE FIRST YEAR AFTER THE BASINS ARE CONSTRUCTED. ANY EROSION SHALL BE REPAIRED IMMEDIATELY AND REPLACEMENT EROSION PROTECTION SHALL BE INSTALLED. AFTER THE FIRST YEAR, THE DISCHARGE LOCATIONS ARE TO BE INSPECTED PERIODICALLY AS NECESSARY TO ASSURE PROPER FUNCTIONING.
5. ALL PAVED SURFACES ARE TO BE KEPT FREE OF SEDIMENT AND DEBRIS. STREET SWEEPING SHOULD BE PERFORMED ON A REGULAR BASIS, IN ACCORDANCE WITH TOWN PRACTICES.
6. ALL DRAINAGE SYSTEM COMPONENTS ARE TO BE OWNED AND MAINTAINED BY THE OWNER/DEVELOPER UNTIL THE STREET IS ACCEPTED PER TOWN CODE CHAPTER 247, ROAD ACCEPTANCE POLICY.



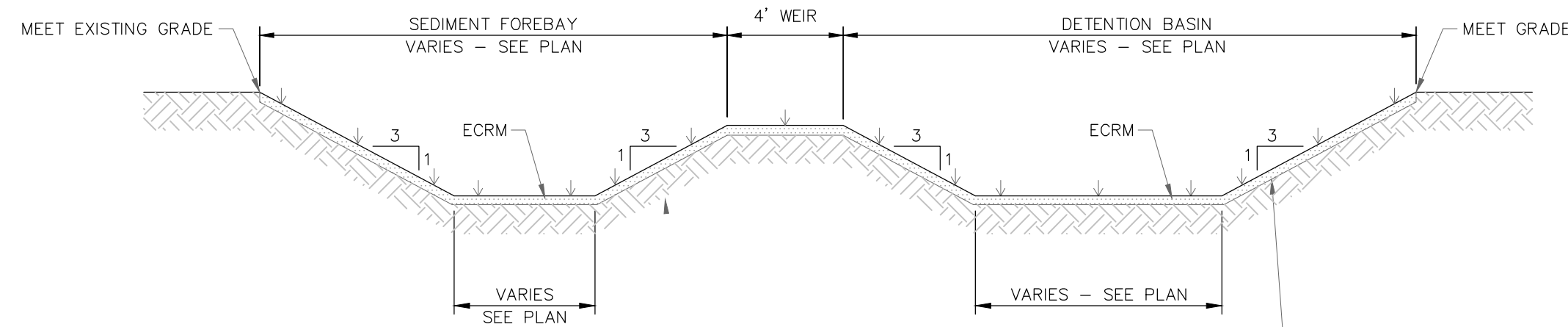
LEACHING BASIN (DRY WELL)

DRY STONE MASONRY NOT TO SCALE



LEVEL SPREADER

NOT TO SCALE

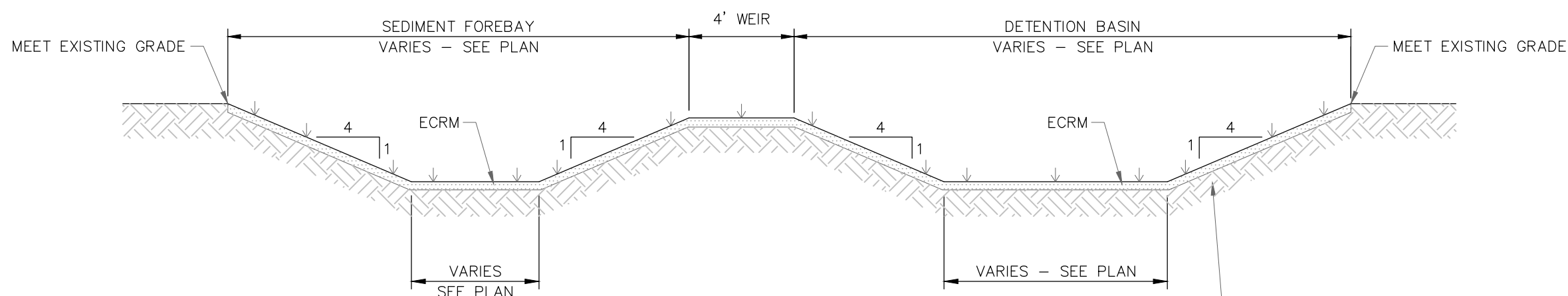


NOTE
EXISTING "A" AND "B" SOIL HORIZONS TO BE REMOVED IN THE AREA OF THE PROPOSED SEDIMENT FOREBAYS AND BASINS. PROPOSED SYSTEM TO BE CONSTRUCTED UPON THE EXPOSED "C" SOIL HORIZON.

DETENTION BASIN & SEDIMENT FOREBAY

FOR BASIN 3

NOT TO SCALE



NOTE
EXISTING "A" AND "B" SOIL HORIZONS TO BE REMOVED IN THE AREA OF THE PROPOSED SEDIMENT FOREBAYS AND BASINS. PROPOSED SYSTEM TO BE CONSTRUCTED UPON THE EXPOSED "C" SOIL HORIZON.

DETENTION BASIN & SEDIMENT FOREBAY

FOR BASINS 1, 2 & 4

NOT TO SCALE

APPROVED _____

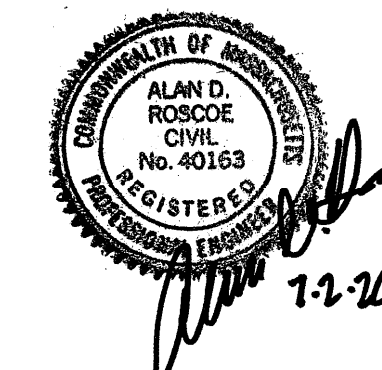
BEING A MAJORITY OF THE GROTON PLANNING BOARD

ENDORSED _____

I, _____ CLERK OF THE TOWN OF GROTON, HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO SUCH APPEAL WAS RECEIVED DURING THE 20 DAYS AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

TOWN CLERK

DATE



DEFINITIVE PLAN

TAX MAP 253 LOT 2 & MAP 135 LOT 38
DRAINAGE DETAILS (SHEET 2 OF 2)

MONARCH PATH GROTON, MASSACHUSETTS

OWNED BY
EBRAHIM MASALEHDAN
PREPARED FOR
EBRAHIM MASALEHDAN

SCALE: AS NOTED JULY 2, 2024



Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
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30002.06	DR	DS	FB	-	SHEET 36 OF 39
	CK	DB	CADFILE	30002-Cover	

REV	DATE	DESCRIPTION	DR	CK