

PROJECT NOTES:

1. LOCATION: 159 BEACH ROAD – ROUTE 1A
SALISBURY, MA
TAX MAP 28 LOT 1
2. PROPERTY REFERENCES: SOUTH ESSEX REGISTRY OF DEEDS
BOOK 8710 PAGE 72 (1986)
3. OWNER: EDWARD FOOTE, JR. & JOANNE F. BLAIS
123 CENTRAL AVENUE
SALISBURY, MA. 01952
4. LAND SURVEYOR: SEC & ASSOCIATES
PLAISTOW, NH 03865
TEL: (603) 382-5065
5. ALL INFORMATION AS SHOWN WAS PRODUCED FROM THE TOWN OF SALISBURY INFORMATION, THE SOUTH ESSEX REGISTRY OF DEEDS OF DEEDS AND AN ON GROUND SURVEY BY SEC & ASSOCIATES OF PLAISTOW, NH IN FEBRUARY & MARCH OF 2021.
6. ANY UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE AND BASED ON VISABLE EVIDENCE AND AVAILABLE TOWN RECORDS. RELIABLE LOCATIONS SHOULD BE VERIFIED BY THE TOWN OF SALISBURY AND BY CALLING DIG SAFE AT 811.
7. PROPERTY IS NOT LOCATED WITHIN A DESIGNATED FLOOD HAZARD AREA – AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 25009C0129F PANEL 129 OF 600 EFFECTIVE DATE JULY 3, 2012.
8. PLAN BEARINGS ARE BASED UPON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD83) – MAINLAND ZONE PER GPS OBSERVATIONS.
9. ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM (NAVD88), PER GPS OBSERVATIONS.
10. THE PORTION OF THIS PARCEL CONTAINING REGISTERED LAND IS IN THE PROCESS OF BEING REMOVED FROM LAND COURT.

WAIVERS:

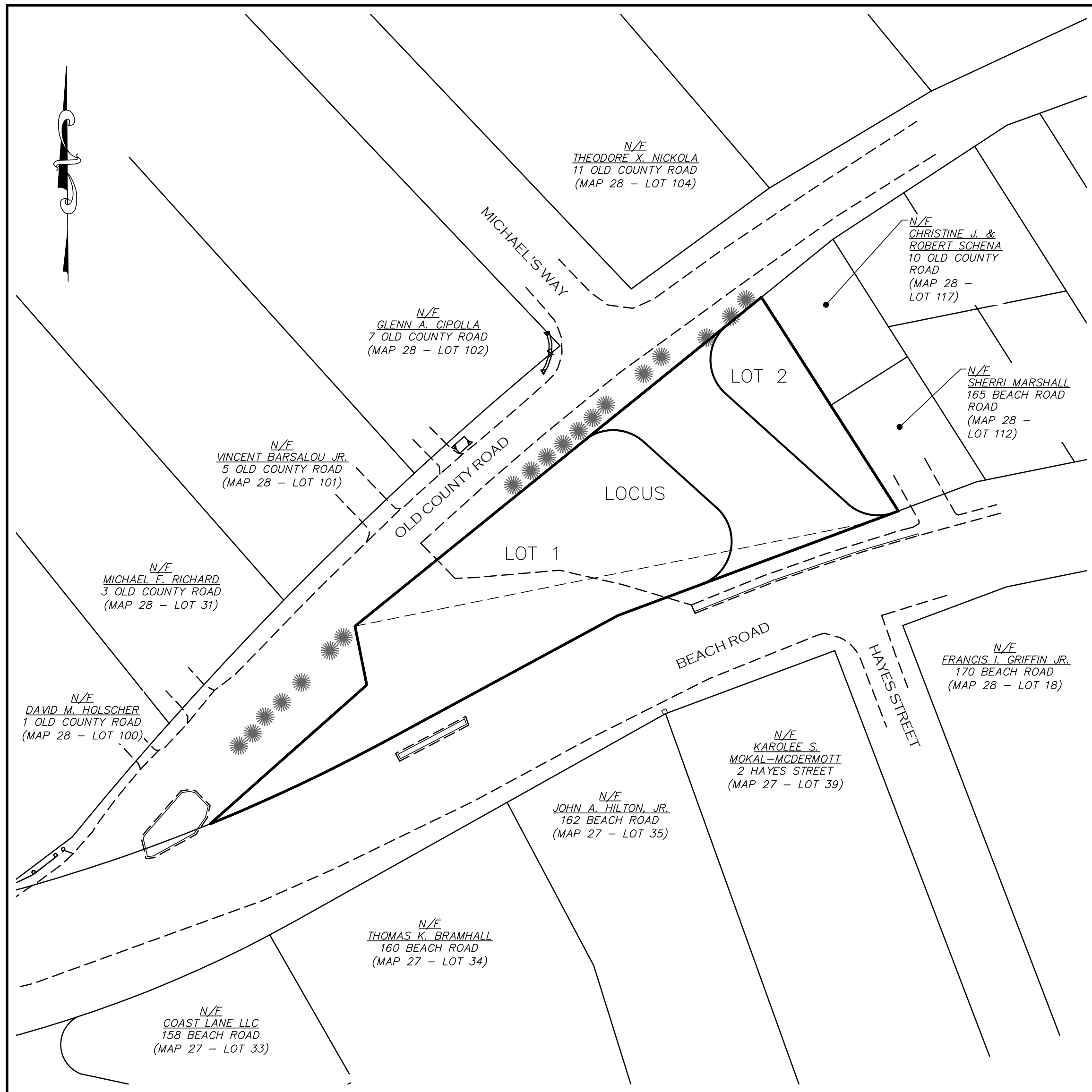
THE FOLLOWING WAIVERS ARE REQUESTED FROM THE SALISBURY PLANNING BOARD RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, DATED OCTOBER 9, 2013:

1. SECTION 7A.8 – DRIVEWAY INTERSECTIONS – 75-FT IS REQUIRED FROM THE CENTERLINE OF THE PROPOSED WAY TO ALL DRIVEWAYS. APPROXIMATELY 53-FT IS PROVIDED IN ORDER TO CENTER THE STREET WITH THE INTERSECTION OF HAYES STREET.

PRELIMINARY SUBDIVISION PLAN FOR 159 BEACH ROAD (MAP 28 / LOT 1) SALISBURY, MASSACHUSETTS 01952

LEGEND

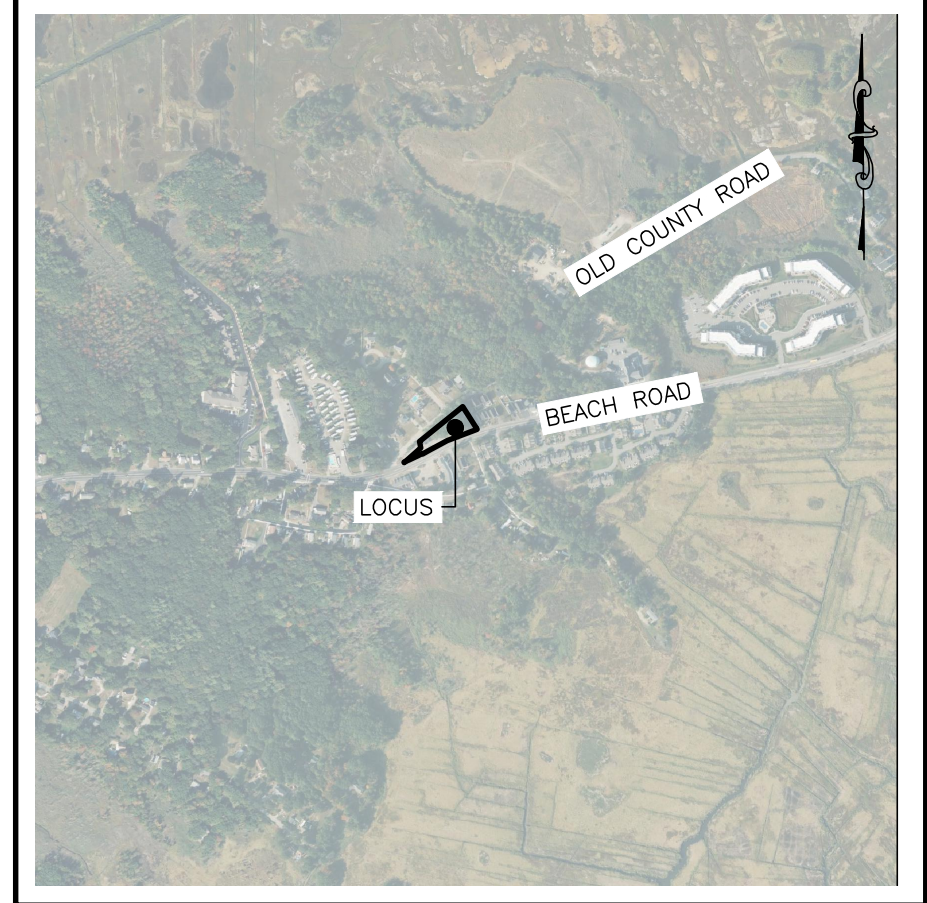
PROPERTY LINE	=====
ABUTTERS PROPERTY LINE	=====
EXISTING EDGE OF PAVEMENT	-----
EXISTING DRAIN MANHOLE	⊙
EXISTING SEWER MANHOLE	⊙
EXISTING CONTOUR	-----
EXISTING WATER	W-----W
EXISTING HYDRANT	⊕
EXISTING GATE VALVE	⊕
EXISTING SEWER	S-----S
EXISTING DRAIN	D-----D
EXISTING TREE LINE	~~~~~
EXISTING CONCRETE	-----
EXISTING TEST PIT	TP-1
EXISTING DRILL HOLE	⊙
EXISTING IRON PIN	⊙
EXISTING BOUND	⊕
EXISTING SIGN	⊕
EXISTING SITE LIGHTING	☆
BUILDING SETBACK	-----
PROPOSED STRUCTURE	=====
PROPOSED CURB	=====
PROPOSED PAVEMENT	-----
PROPOSED CONCRETE	-----
PROPOSED CONTOUR	-----
PROPOSED SPOT GRADE	X 151.00
PROPOSED SPOT GRADE (TW/BW)	X TW:159.57 BW:155.67
PROPOSED DRAIN	D-----D
PROPOSED SILT FENCE	-----
PROPOSED RETAINING WALL	-----
PROPOSED OPEN SPACE	-----
PROPOSED LANDSCAPE AREA	-----
PROPOSED WATER	W-----W
PROPOSED GATE VALVE/ REDUCER & HYDRANT	⊕
PROPOSED GAS	G-----G
PROPOSED SEWER	-----
PROPOSED SEWER MANHOLE	⊙
PROPOSED ELECTRIC/TELEPHONE/CABLE	ETC-----ETC
PROPOSED MONUMENT	⊕
PROPOSED IRON PIN	⊙
PROPOSED EASEMENT	-----
PROPOSED SIGN	⊕
PROPOSED LIMIT OF WORK



100 0 50 100
(IN FEET)
1"=50'

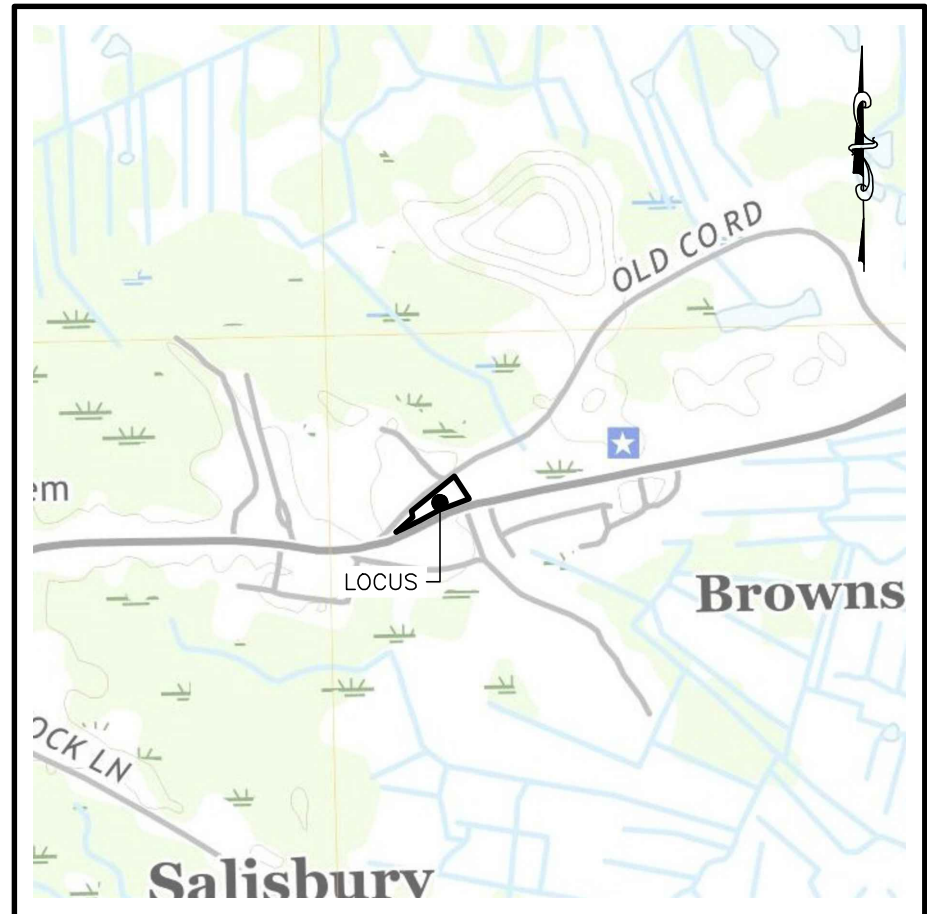
LOCUS MAP

(SCALE: 1:1,000)



USGS MAP

(SCALE: 1:1,000)



PLAN INDEX:

TITLE	DATE ISSUED
C-1 COVER SHEET	10/12/23
C-2 EXISTING CONDITIONS PLAN	08/11/23
C-3 PRELIMINARY SUBDIVISION PLAN	10/12/23
C-4 GRADING & DRAINAGE PLAN	10/12/23
C-5 LAYOUT & MATERIALS	10/12/23
D-1 CONSTRUCTION DETAILS	10/12/23
D-2 CONSTRUCTION DETAILS	10/12/23



PROFESSIONAL ENGINEER FOR CIVIL DESIGN
CONSULTANTS, INC.

CIVIL DESIGN
Consultants, Inc.

SURVEY • DESIGN • PERMITTING • CONSTRUCTION ADMINISTRATION

344 North Main Street
Andover, MA 01810
Tel: (978) 416-0920
Fax: (978) 416-7865

DRAWING TITLE:

COVER SHEET

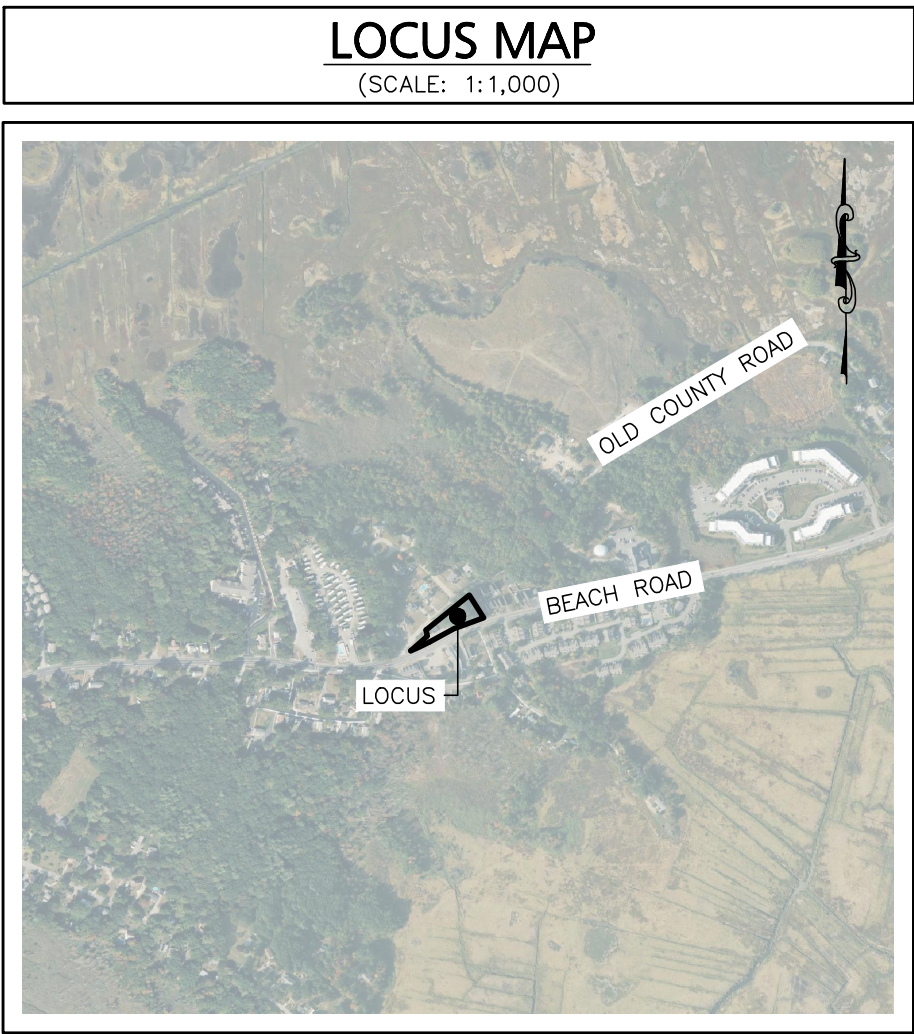
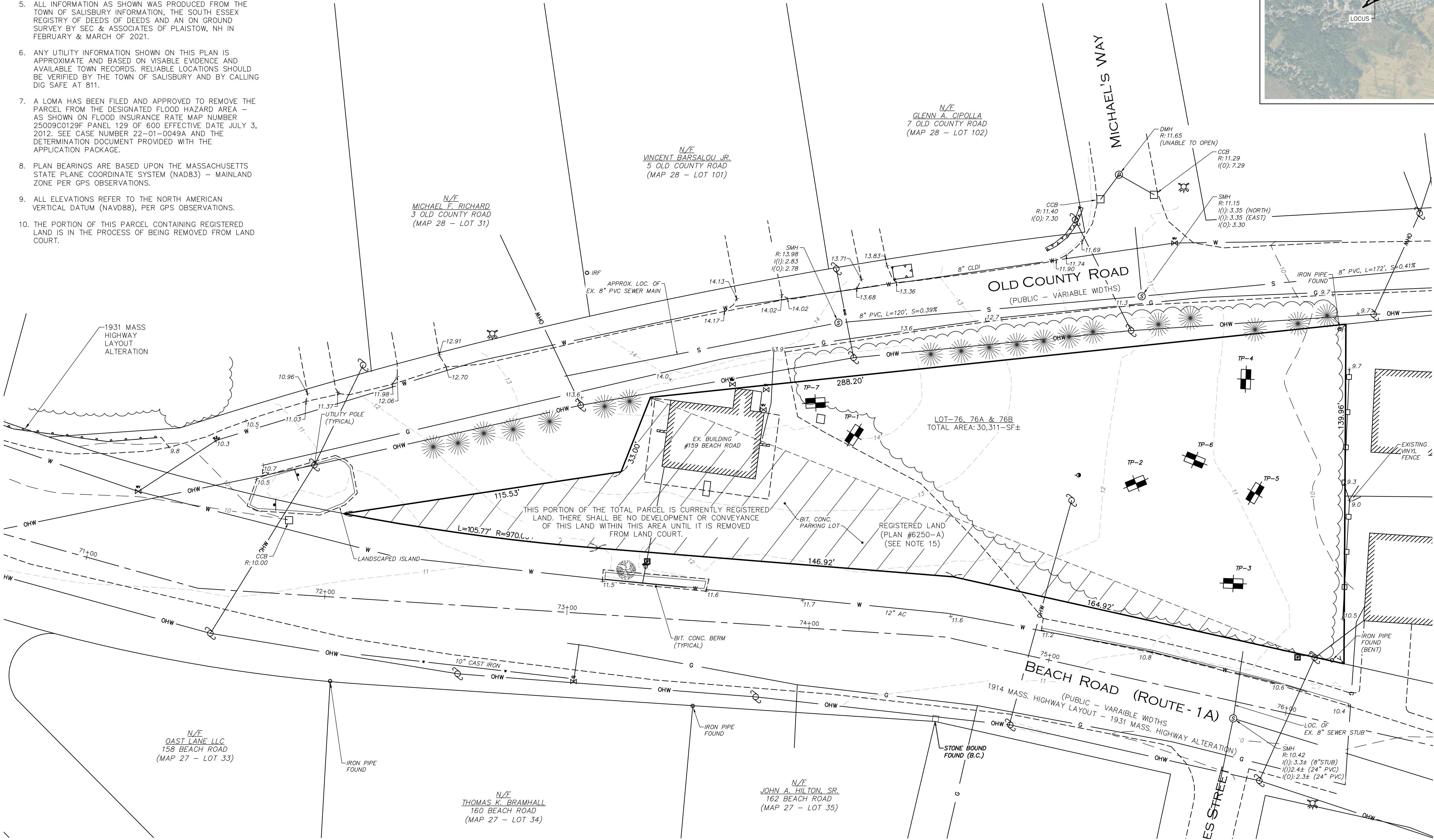
DRAWING #:

C-1

ISSUED FOR APPROVAL:OCTOBER 12, 2023

PROJECT NOTES:

1. LOCATION: 159 BEACH ROAD – ROUTE 1A
SALISBURY MA.
2. PROPERTY REFERENCES: SOUTH ESSEX REGISTRY OF
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BOOK 8710 PAGE 72 (1986)
3. OWNER: EDWARD FOOTE, JR. & JOANNE
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4. LAND SURVEYOR: SEC & ASSOCIATES
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TEL: (603) 382-5065
5. ALL INFORMATION AS SHOWN WAS PRODUCED FROM THE
TOWN OF SALISBURY INFORMATION, THE SOUTH ESSEX
REGISTRY OF DEEDS OF DEEDS AND AN ON GROUND
SURVEY BY SEC & ASSOCIATES OF PLAISTOW, NH IN
FEBRUARY & MARCH OF 2021.
6. ANY UTILITY INFORMATION SHOWN ON THIS PLAN IS
APPROXIMATE AND BASED ON VISABLE EVIDENCE AND
AVAILABLE TOWN RECORDS. RELIABLE LOCATIONS SHOULD
BE VERIFIED BY THE TOWN OF SALISBURY AND BY CALLING
DIG SAFE AT 811.
7. A LOMA HAS BEEN FILED AND APPROVED TO REMOVE THE
PARCEL FROM THE DESIGNATED FLOOD HAZARD AREA –
AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER
25009C0129F PANEL 129 OF 600 EFFECTIVE DATE JULY 3,
2012. SEE CASE NUMBER 22-01-0049A AND THE
DETERMINATION DOCUMENT PROVIDED WITH THE
APPLICATION PACKAGE.
8. PLAN BEARINGS ARE BASED UPON THE MASSACHUSETTS
STATE PLANE COORDINATE SYSTEM (NAD83) – MAINLAND
ZONE PER GPS OBSERVATIONS.
9. ALL ELEVATIONS REFER TO THE NORTH AMERICAN
VERTICAL DATUM (NAVD88), PER GPS OBSERVATIONS.
10. THE PORTION OF THIS PARCEL CONTAINING REGISTERED
LAND IS IN THE PROCESS OF BEING REMOVED FROM LAND
COURT.



8/11/23	REDESIGNED PER APPLICANT
5/17/23	REDESIGNED PER TOWN REVIEW
3/9/23	REDESIGNED PER APPLICANT
1/3/23	REDESIGNED PER TOWN REVIEW
8/30/22	REV. PER TOWN REVIEW
8/2/22	REV. PER TOWN REVIEW
DATE	DESCRIPTION
REVISIONS	

APPLICANT:
**LARKIN REAL ESTATE
GROUP, INC.**
383 MAIN STREET
MEDFIELD, MA. 02052

PROJECT:
159 BEACH ROAD
TAX MAP 28 - LOT 1
SALISBURY, MA. 01952

DATE ISSUED: JUNE 14, 2022

PROJECT #: 21-10254

PREPARED BY: WILLIAM HALL, P.E.



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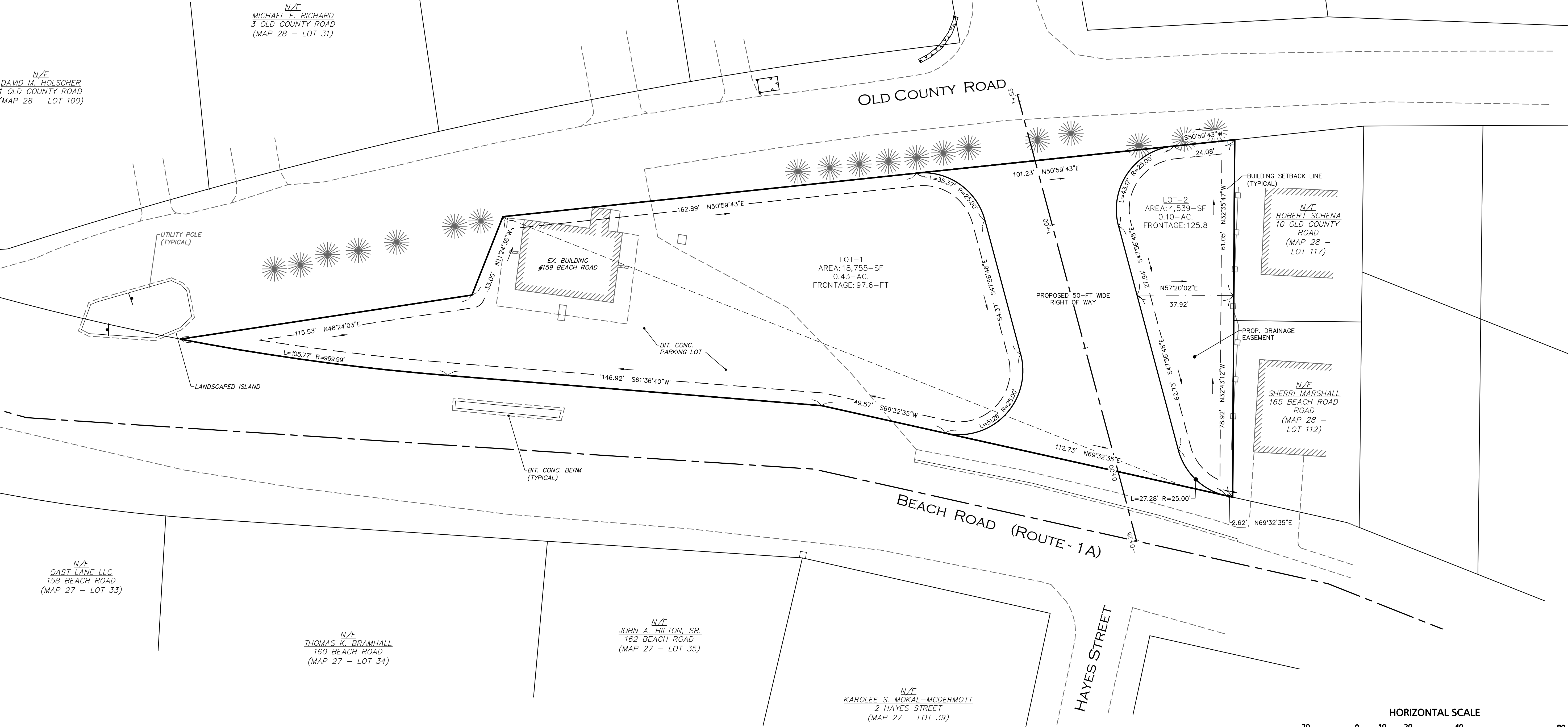
DRAWING TITLE:
**EXISTING
CONDITIONS PLAN**

DRAWING #:

C-2

LAND USE TABLE			
LOCATION:	159 BEACH ROAD (TAX MAP 28 / LOT 1)		
ZONE:	BEACH COMMERCIAL/RESIDENTIAL (BC)		
OVERLAY DISTRICT:	WIRELESS COMMUNICATION DISTRICT C ADULT ENTERTAINMENT DISTRICT		
EXISTING USE:	COMMERCIAL		
PROPOSED USE:	RESIDENTIAL		
ITEM	BC RES	LOT 1	LOT 2
MINIMUM LOT AREA	--	18,755--SF±	4,545--SF±
MINIMUM LOT FRONTAGE	--	327.9--FT (BEACH) 329.1--FT (OLD COUNTY) 97.6--FT (PROPOSED)	16.2--FT (BEACH) 45.6--FT (OLD COUNTY) 125.8--FT (PROPOSED)
MINIMUM FRONT SETBACK	5--FT	>5--FT	>5--FT
MINIMUM SIDE SETBACK	10--FT ⁽¹⁾	>5--FT	>5--FT
MINIMUM REAR SETBACK	10--FT ⁽¹⁾	>5--FT	>5--FT
MAX. BUILDING COVERAGE	90%	<90%	<90%
MAXIMUM HEIGHT	35--FT	<35--FT	<35--FT
MINIMUM PARKING SPACES	2/DWELLING	2/DWELLING	2/DWELLING

NOTE:
1. MINIMUM SETBACK SHALL BE 10--FT FOR NON-FIRE-RATED STRUCTURES AND 5--FT FOR FIRE-RESISTANT STRUCTURES.



DATE	DESCRIPTION
REVISIONS	
PREPARED FOR:	
LARKIN REAL ESTATE GROUP INC.	
383 MAIN STREET	
MEDFIELD, MA 02052	
PROJECT:	
159 BEACH ROAD	
TAX MAP 28 - LOT 1	
SALISBURY, MA. 01952	
DATE ISSUED:	OCTOBER 12, 2023
PROJECT #:	21-10254
PREPARED BY:	WILLIAM HALL, P.E.

EDWARD A. CUOCO SR.
No. 58441
REGISTERED PROFESSIONAL LAND SURVEYOR

PROFESSIONAL LAND SURVEYOR FOR CIVIL DESIGN CONSULTANTS, INC.

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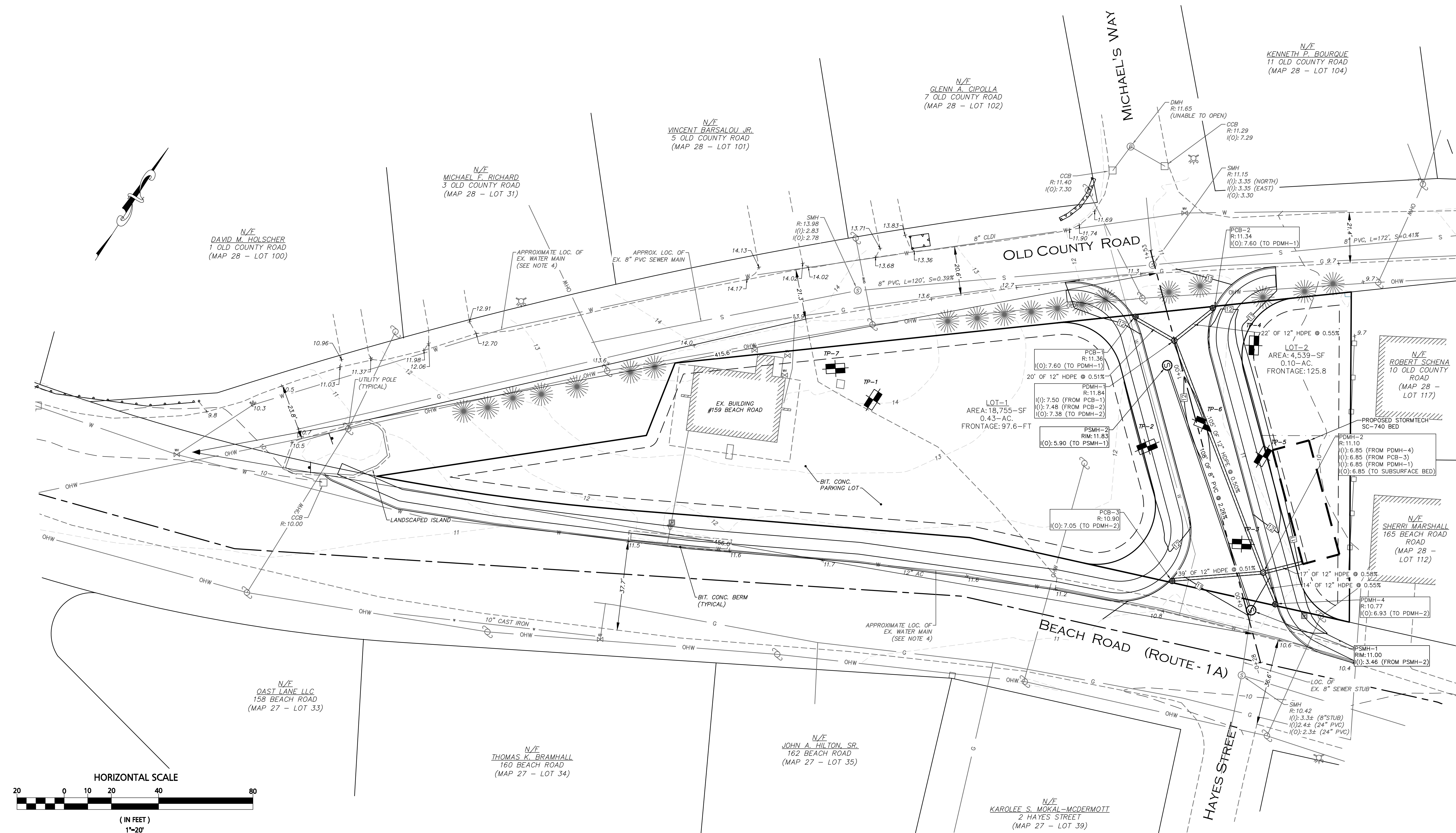
DRAWING TITLE:

PRELIMINARY
SUBDIVISION PLAN

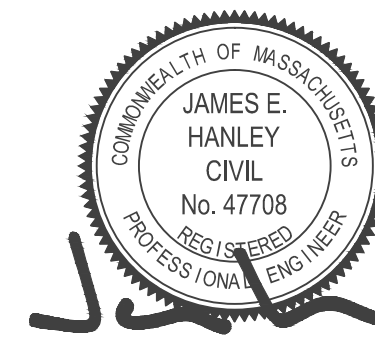
DRAWING #:

C-3

1. SEE SHEET C-1 FOR COMPLETE PROJECT NOTES
2. PLAN BEARINGS ARE BASED UPON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD83) – MAINLAND ZONE PER GPS OBSERVATIONS.
3. ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM (NAVD88) PER GPS OBSERVATIONS.
4. THE CONTRACTOR IS TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF THE EXISTING SEWER AND WATER PRIOR TO CONSTRUCTION.



DATE	DESCRIPTION
REVISIONS	
PREPARED FOR:	
<u>LARKIN REAL ESTATE</u> <u>GROUP INC.</u> 383 MAIN STREET MEDFIELD, MA 02052	
PROJECT:	
<u>159 BEACH ROAD</u> TAX MAP 28 - LOT 1 SALISBURY, MA. 01952	
DATE ISSUED:	OCTOBER 12, 2023
PROJECT #:	21-10254
PREPARED BY:	WILLIAM HALL, P.E.



PROFESSIONAL ENGINEER FOR CIVIL DESIGN
CONSULTANTS, INC.



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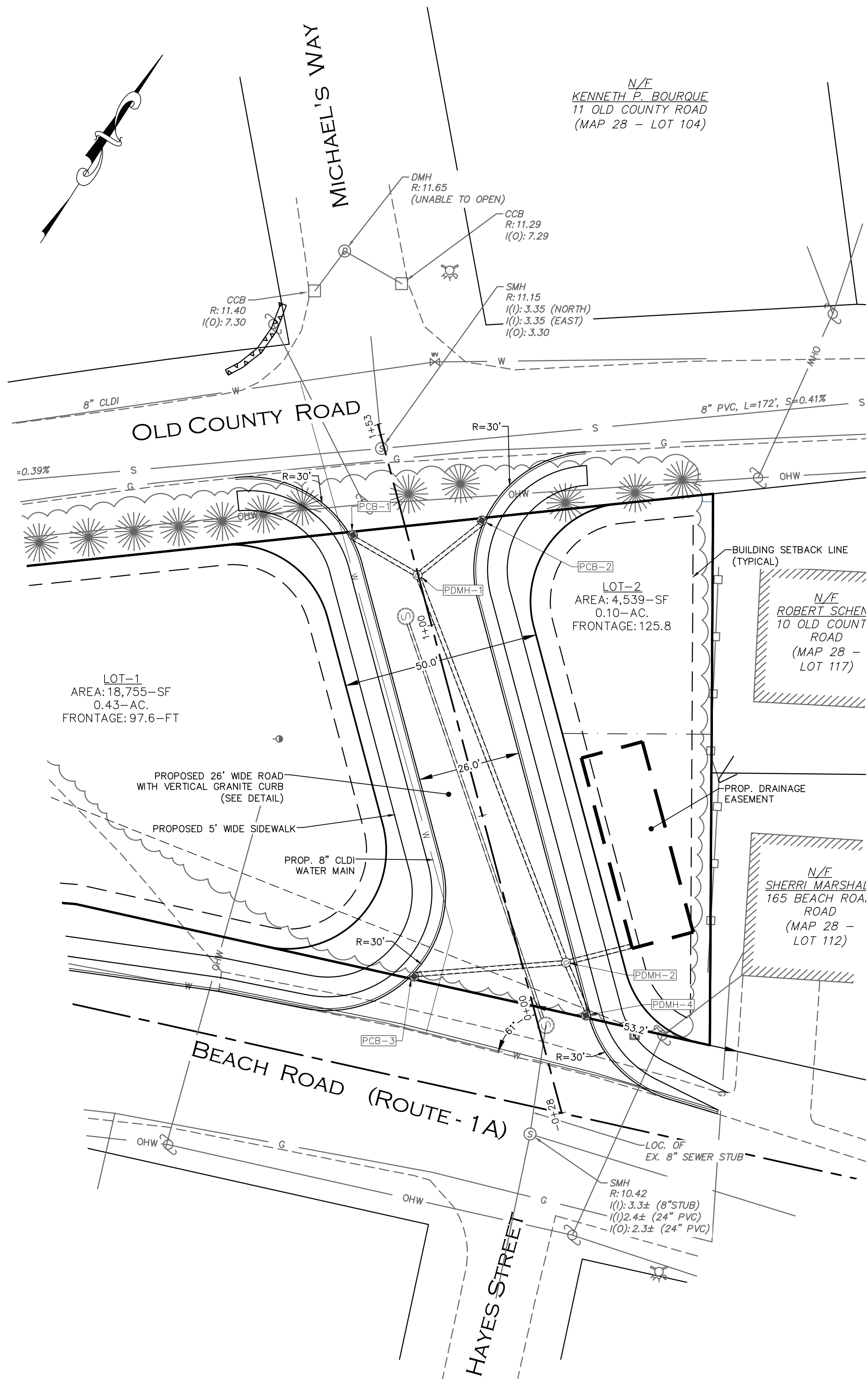
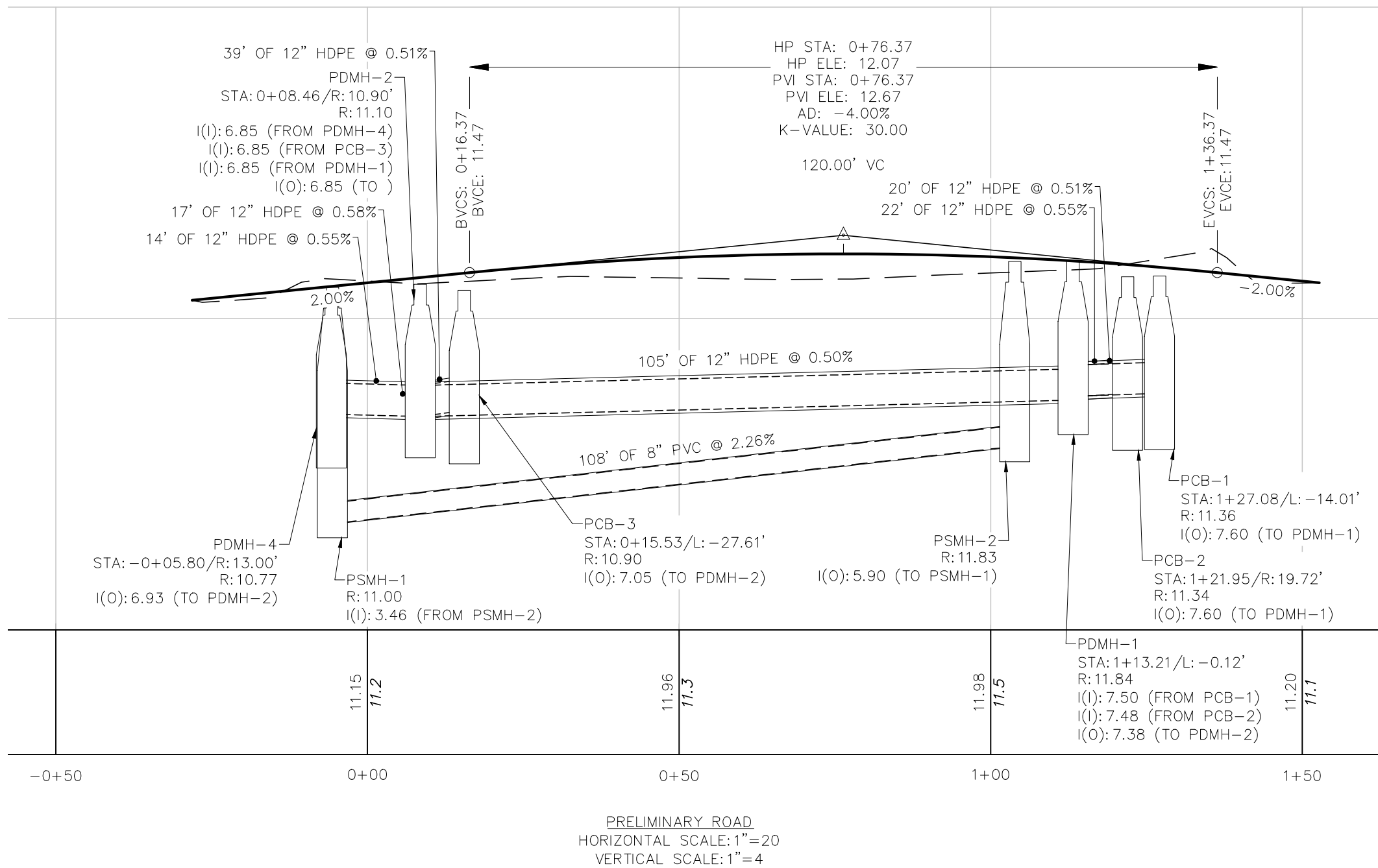
GRADING &
DRAINAGE PLAN

DRAWING #:

C-4

PROJECT NOTES:

- SEE SHEET C-1 FOR COMPLETE PROJECT NOTES
- PLAN BEARINGS ARE BASED UPON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD83) - MAINLAND ZONE PER GPS OBSERVATIONS.
- ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM (NAVD88) PER GPS OBSERVATIONS.
- THE CONTRACTOR IS TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF THE EXISTING SEWER AND WATER PRIOR TO CONSTRUCTION.
- WHERE SANITARY SEWERS CROSS WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN. IF THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS SEPARATION OR CONSTRUCTED WITH MECHANICAL JOINT PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHENEVER IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER MAIN AND SEWER SHALL BE ENCASED IN CONCRETE FOR A MINIMUM DISTANCE OF 10 FEET FROM THE CROSSING POINT OF THE OTHER PIPE AS MEASURED NORMALLY FROM ALL POINTS ALONG THE PIPE.
- ALL BENDS IN WATER MAIN ARE 45 DEGREES UNLESS OTHERWISE SPECIFIED.
- ANY ALTERATIONS OR IMPROVEMENTS WITHIN THE STATE HIGHWAY LAYOUT MUST RECEIVE APPROVAL FROM MASSDOT PRIOR TO THE START OF CONSTRUCTION.

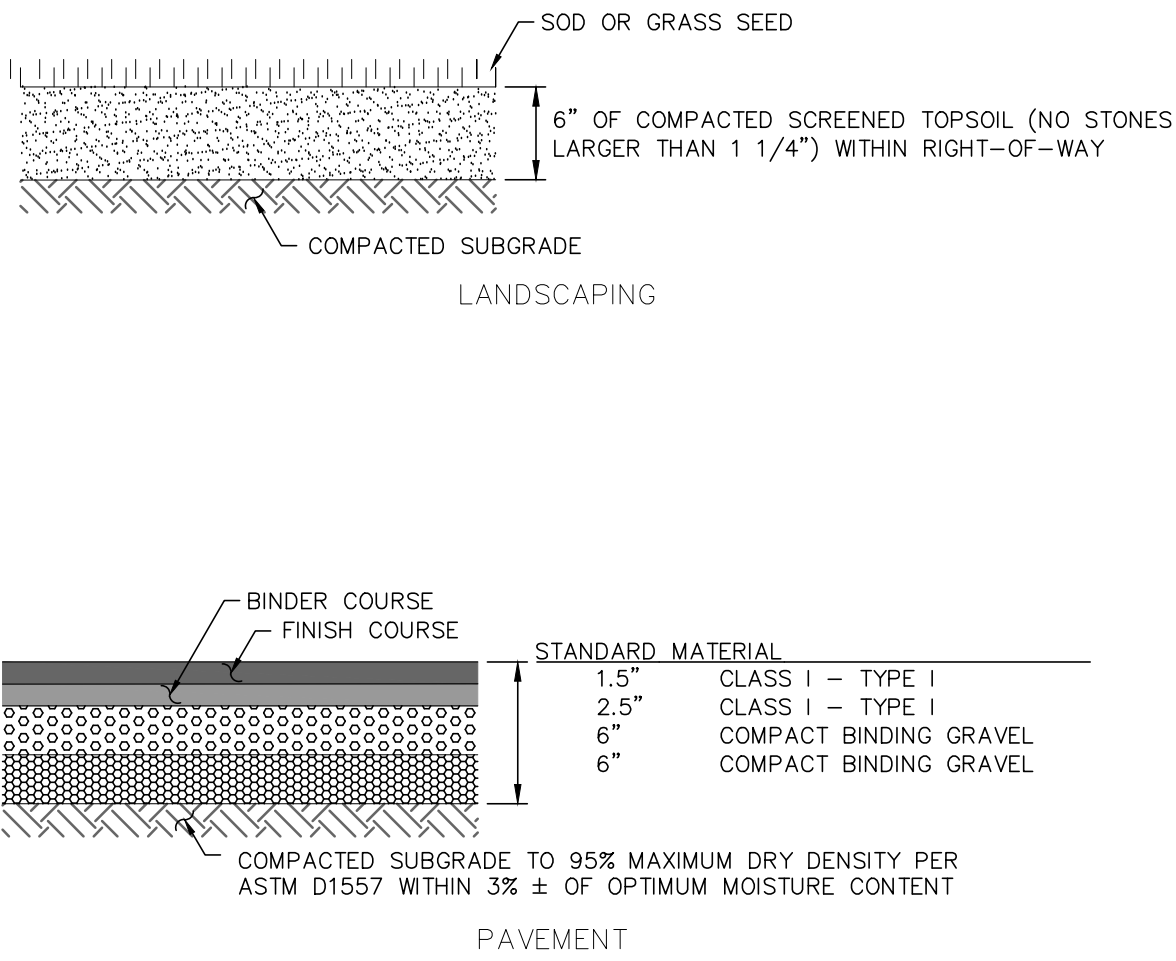


GENERAL UTILITY NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK.
2. WHERE SANITARY SEWERS CROSS WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN. IF THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS SEPARATION OR CONSTRUCTED WITH MECHANICAL-JOINT PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHENEVER IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE ENCASED IN CONCRETE FOR A MINIMUM DISTANCE OF 10 FEET FROM THE CROSSING POINT OF THE OTHER PIPE AS MEASURED NORMALLY FROM ALL POINTS ALONG THE PIPE.
3. ALL UTILITY WORK PERFORMED WITHIN RIGHT-OF-WAY SHALL BE PERFORMED BY A CONTRACTOR LICENSED BY THE DPW AND OBTAIN A PERMIT FOR SUCH WORK FROM THE DPW AND MASSDOT, IF NEEDED.
4. ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
5. A DUST EMISSION CONTROL PLAN SHALL BE DEVELOPED AND IMPLEMENTED BY THE CONTRACTOR IF CONDITIONS WARRANT.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL UTILITIES AS SHOWN ON THESE PLANS IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY CONSTRUCTION SHALL CONFORM TO THE APPROPRIATE UTILITY COMPANY STANDARDS FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING SPECIFICATIONS OF MATERIALS AND INSTALLATION PROCEDURES AND INSTALL IN ACCORDANCE WITH APPLICABLE REGULATIONS.
7. THE CONTRACTOR IS RESPONSIBLE TO CONTACT AND DETERMINE, COORDINATE AND SCHEDULE ALL NECESSARY INSPECTIONS AND MONITORING WITH ALL APPROPRIATE UTILITY COMPANIES.
8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO PERFORM THE WORK.
9. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE PROJECT BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT.
11. WATER AND SEWER TESTING TO CONFORM TO LOCAL DPW REGULATIONS.
12. ALL MECHANICAL JOINTS TO BE MEGALUG SERIES 1100 INSTALLED IN ACCORDING WITH MANUFACTURER RECOMMENDATIONS OR APPROVED EQUAL.
13. ALL SEWER SYSTEM MAINS, STRUCTURES AND CONNECTIONS SHALL BE INSTALLED AND INSPECTED IN ACCORDANCE WITH THE STANDARDS OF THE TOWN OF SALISBURY, MA WASTEWATER TREATMENT FACILITY.

GENERAL CONSTRUCTION NOTES:

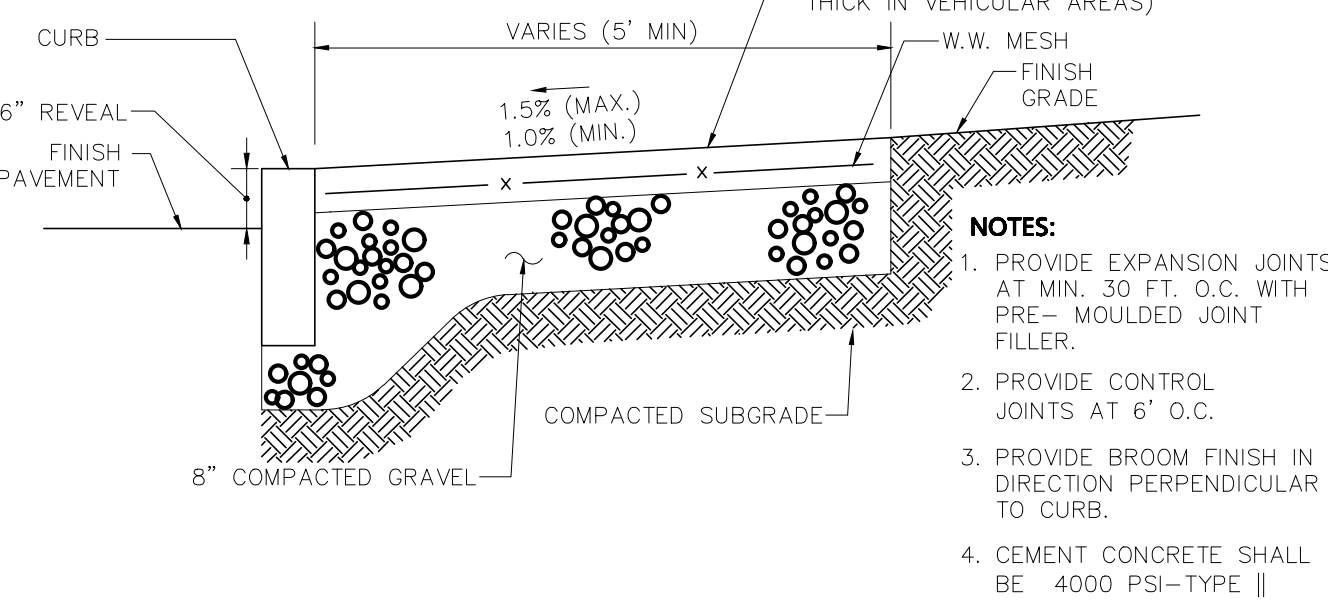
1. THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. THE CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INSPECTIONS, BONDS, ETC. AND OTHER APPROVAL RELATED ITEMS. NO CONSTRUCTION SHALL COMMENCE UNTIL SUCH PERMITS HAVE BEEN SECURED.
3. METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS FOR THIS PROJECT SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE MASSDOT AND THE LOCAL SUBDIVISION REGULATIONS.
4. CONTRACTOR TO CONFIRM AND VERIFY THE VALIDITY, LOCATION, MATERIAL, AND AVAILABILITY TO USE EXISTING UTILITIES ON OR NEAR THE PROJECT SITE PROPERTY. CONTRACTOR TO LOCATE EXISTING UTILITIES AND CONFIRM SAID UTILITIES WITH ALL APPLICABLE MUNICIPALITIES AND UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION. ONCE UTILITIES HAVE BEEN CONFIRMED IN THE FIELD BY CONTRACTOR AND VERIFIED BY APPLICABLE MUNICIPALITY AND UTILITY COMPANY AND CONNECTION HAS BEEN APPROVED BY ENTITY, ONLY THEN SHALL THE CONTRACTOR CONSTRUCT AND UTILIZE THESE UTILITIES. CONTRACTOR TO IMMEDIATELY INFORM THE ENGINEER OF RECORD OF ANY DEVIATIONS TO PLANS.
5. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF NECESSARY. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT AND THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION AT LEAST THREE WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS, PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION. ALL WATER, GAS, SEWER AND OTHER UTILITIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
7. RELOCATION OF ANY UTILITIES SHALL BE AT THE OWNERS EXPENSE AND COMPLETED WITH THE UTILITY WORK. THE OWNER SHALL BE NOTIFIED AS TO THE RELOCATIONS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, WALKS, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
9. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE.
10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE DOCUMENTS AND SUBSEQUENT ISSUED PLAN REVISIONS. ANY DEVIATIONS FROM THESE DOCUMENTS SHALL REQUIRE NOTIFICATION TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTING ANY CHANGE. THE CONTRACTOR WILL BE WORKING AT HIS OR HER OWN RISK.
11. ALL WATER AND SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF SALISBURY RULES AND REGULATIONS AND INSPECTED AS REQUIRED.
12. WORK HOURS SHALL BE CONSISTENT WITH ALL LOCAL RULES AND REGULATIONS.
13. CONSTRUCTION VEHICLES AND PERSONNEL MUST NOT OBSTRUCT THE ROADWAY OR PUBLIC SIDEWALKS, NOR INTERFERE WITH SIGHT DISTANCES FOR TURNING VEHICLES.



- NOTES:
1. OWNER'S ENGINEER RESERVES THE RIGHT TO REQUEST COMPACTION TESTS AND/OR CORE SAMPLES. IF TESTS ARE BEYOND THOSE REQUIRED BY THE SPECIFICATIONS AND PROVE CORRECT, PER ABOVE SPECIFICATION, TESTS WILL BE AT THE EXPENSE OF THE OWNER, OTHERWISE THE CONTRACTOR WILL BE RESPONSIBLE FOR TESTING COST.
 2. PAVEMENT SECTIONS ARE SUBJECT TO CHANGE AND WILL BE BASED ON THE RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.

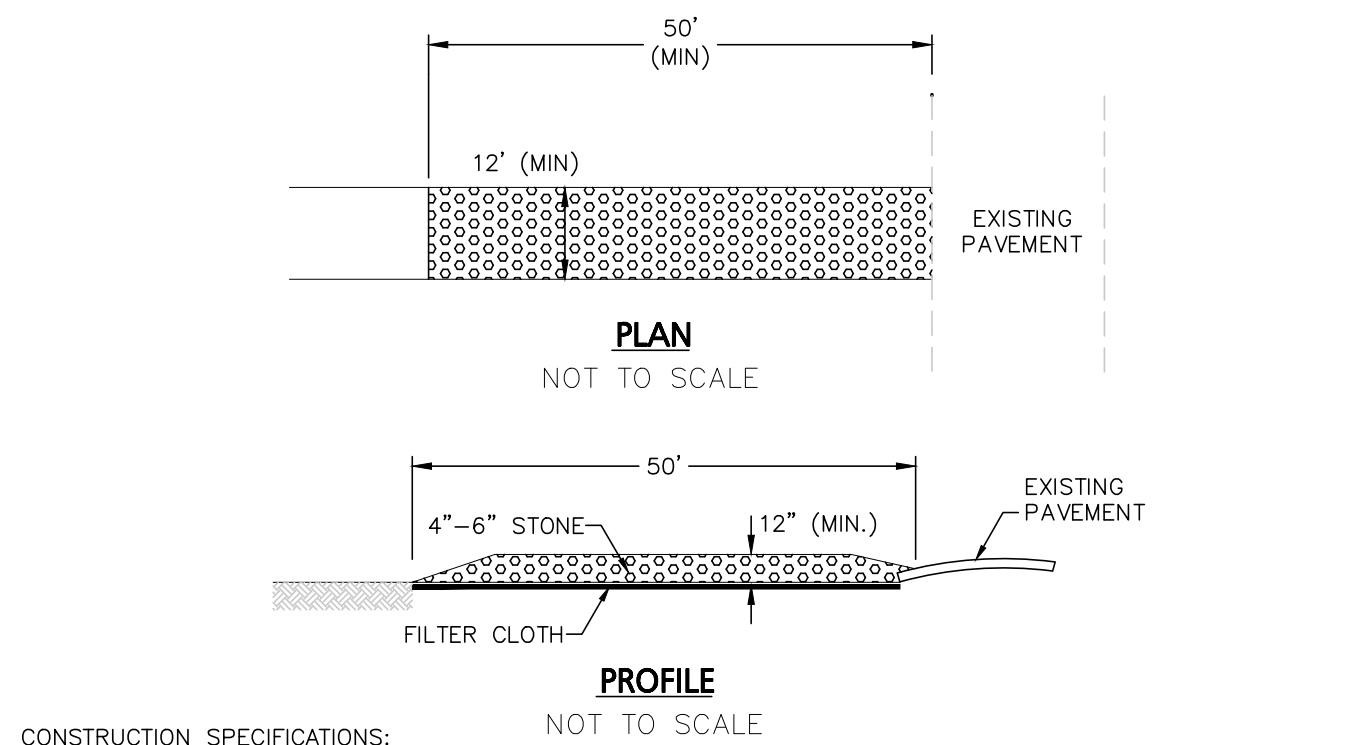
TYPICAL CROSS SECTIONS

NOT TO SCALE



CONCRETE SIDEWALK

NOT TO SCALE

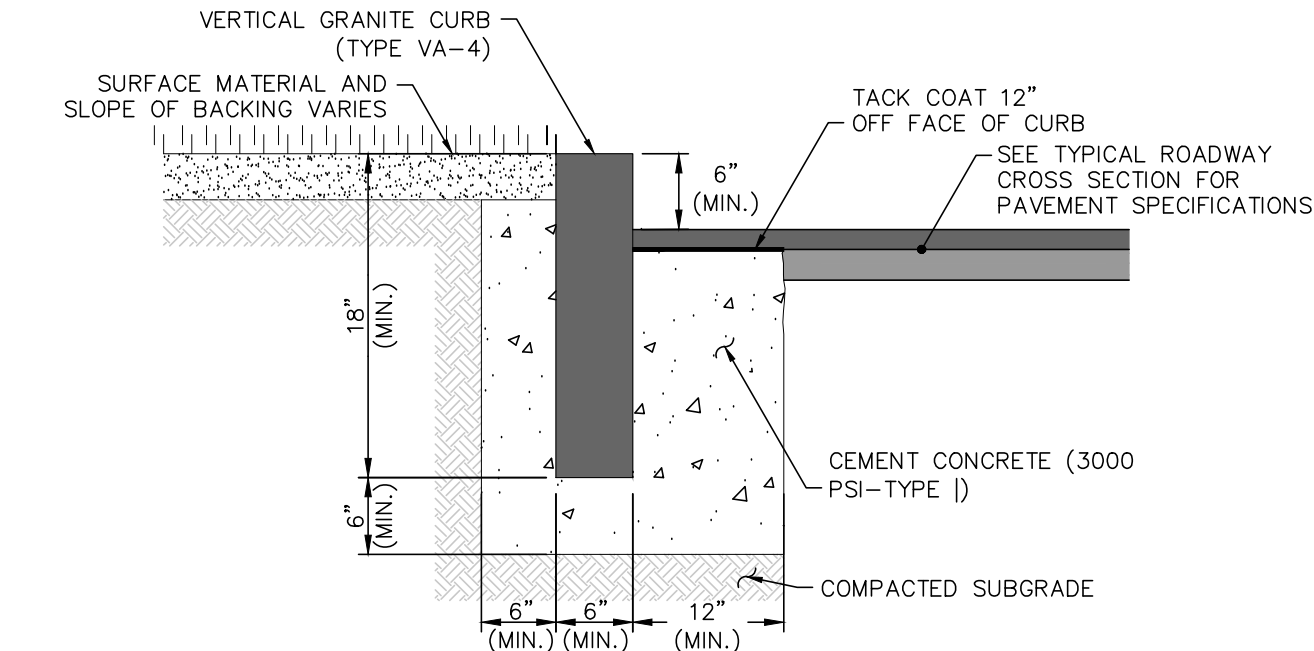


CONSTRUCTION SPECIFICATIONS:

1. USE 4"-6" STONE
2. RECOMMENDED LENGTH GREATER THAN 50 FEET WHERE PRACTICAL
3. THICKNESS NOT LESS THAN 12 INCHES.
4. 12 FOOT MINIMUM WIDTH, BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR.
5. FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WILL BE PERMITTED.
7. ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE 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.
8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR.
9. REMOVE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO PLACEMENT OF BITUMINOUS CONCRETE PAVEMENT.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



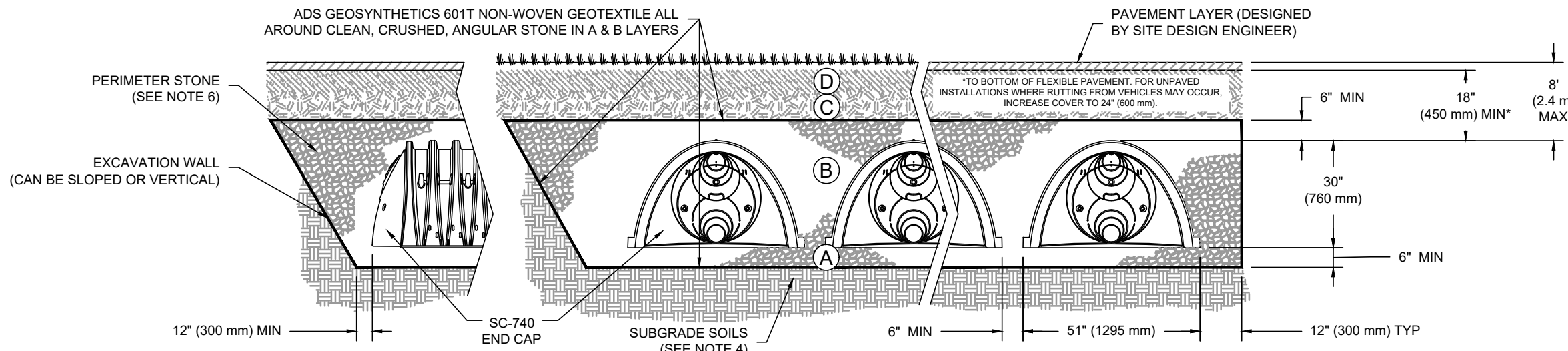
VERTICAL GRANITE CURB

NOT TO SCALE

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ¹ 1

- PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE"
 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

1. SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
6. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

STORMTECH SC-740 DETAIL

NOT TO SCALE

- NOTES:
1. THE SUBGRADE SHALL BE EXCAVATED OF ALL FROST SUSCEPTIBLE MATERIAL, LOAM, MUCK, OR OTHER SOFT MATERIAL TO HARD BOTTOM-FROM WITHIN THE LIMITS OF THE PROPOSED STREET FOR ITS FULL LENGTH AND WIDTH OR AS OTHERWISE APPROVED BY THE BOARD. SUBGRADE SOILS CONTAINING 35% OR MORE SILT (35% PASSING #200 SIEVE) SHALL BE REMOVED TO A MINIMUM DEPTH OF FIVE FEET AND BACKFILLED WITH WELL GRADED BANK GRAVEL WITH NO STONE LARGER THAN EIGHT (8) INCHES DIAMETER.
 2. SEE PROJECT PLANS FOR ROADWAY CURBING APPLICATIONS.
 3. GRANITE TRANSITION STONES SHALL BE PROVIDED AT ALL LOCATIONS WHERE CURBING TRANSITIONS FROM VGC TO BIT, CONC. CAPE COD BERM.

TYPICAL ROADWAY CROSS SECTION

NOT TO SCALE

DATE	DESCRIPTION
REVISIONS	

PREPARED FOR:

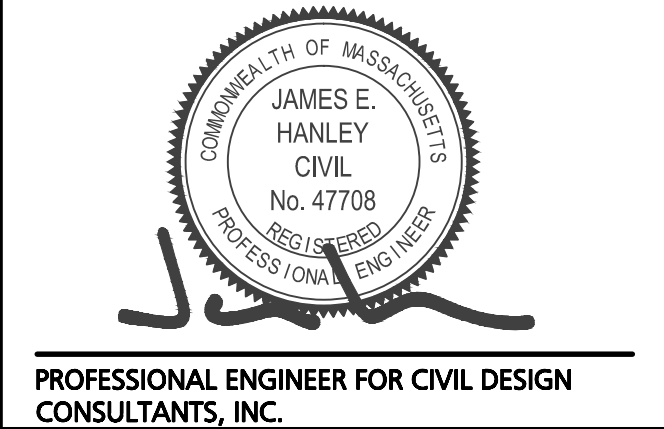
LARKIN REAL ESTATE GROUP INC.

**383 MAIN STREET
MEDFIELD, MA 02052**

PROJECT:

159 BEACH ROAD
TAX MAP 28 - LOT 1
SALISBURY, MA. 01952

DATE ISSUED:	OCTOBER 12, 2023
PROJECT #:	21-10254
PREPARED BY:	WILLIAM HALL, P.E.



PROFESSIONAL ENGINEER FOR CIVIL DESIGN
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DRAWING TITLE:

CONSTRUCTION DETAILS

DRAWING #:

D-1