

PROJECT NOTES:

1. LOCATION:

159 BEACH ROAD — ROUTE 1A  
SALISBURY MA.
2. PROPERTY REFERENCES:

SOUTH ESSEX REGISTRY OF  
DEEDS  
BOOK 8710 PAGE 72 (1986)
3. OWNER:

EDWARD FOOTE, JR. & JOANNE  
F. BLAIS  
159 BEACH ROAD  
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.

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	o
EXISTING BOUND	□
EXISTING SIGN	+
EXISTING SITE LIGHTING	☆
BUILDING SETBACK	-----
PROPOSED STRUCTURE	=====
PROPOSED CURB	=====
PROPOSED PAVEMENT	XXXXXX
PROPOSED CONCRETE	.....
PROPOSED CONTOUR	148
PROPOSED SPOT GRADE	161.00
PROPOSED SPOT GRADE (TW/BW)	TW:159.57 BW:155.67
PROPOSED DRAIN	D D
PROPOSED SILT FENCE	X
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	o
PROPOSED EASEMENT	-----
PROPOSED SIGN	+
PROPOSED LIMIT OF WORK	.....

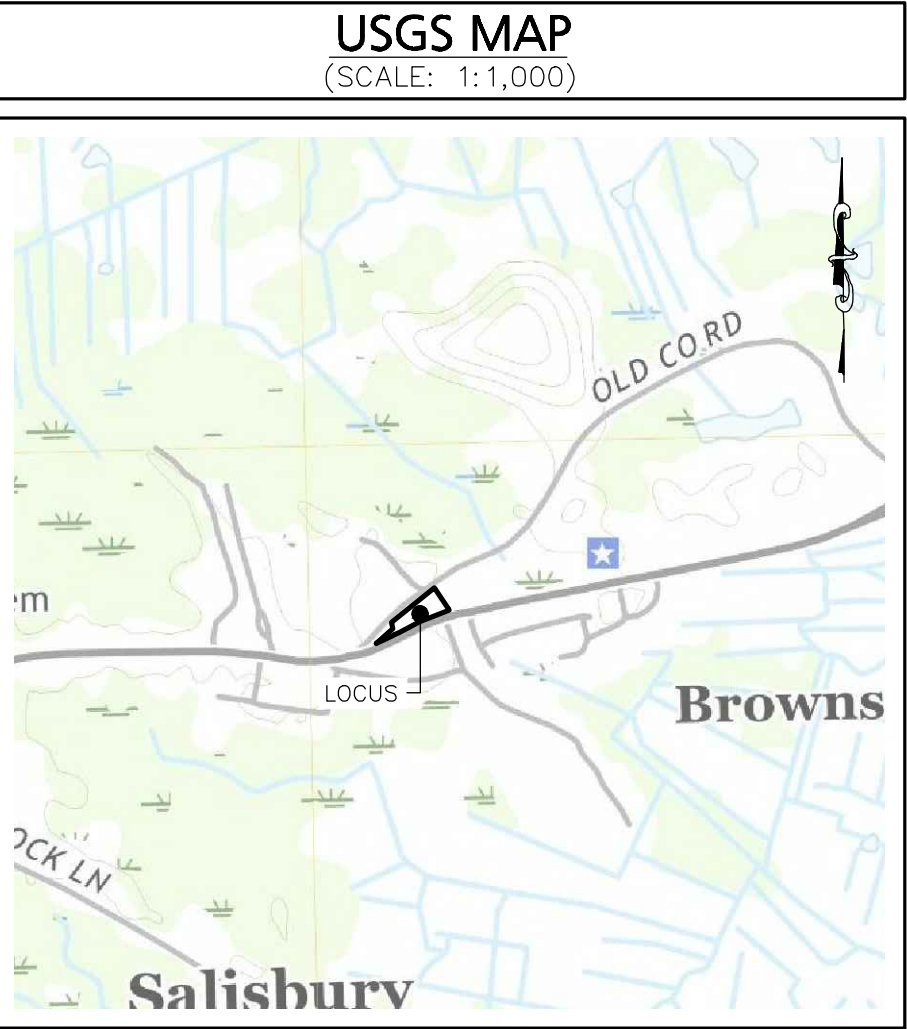
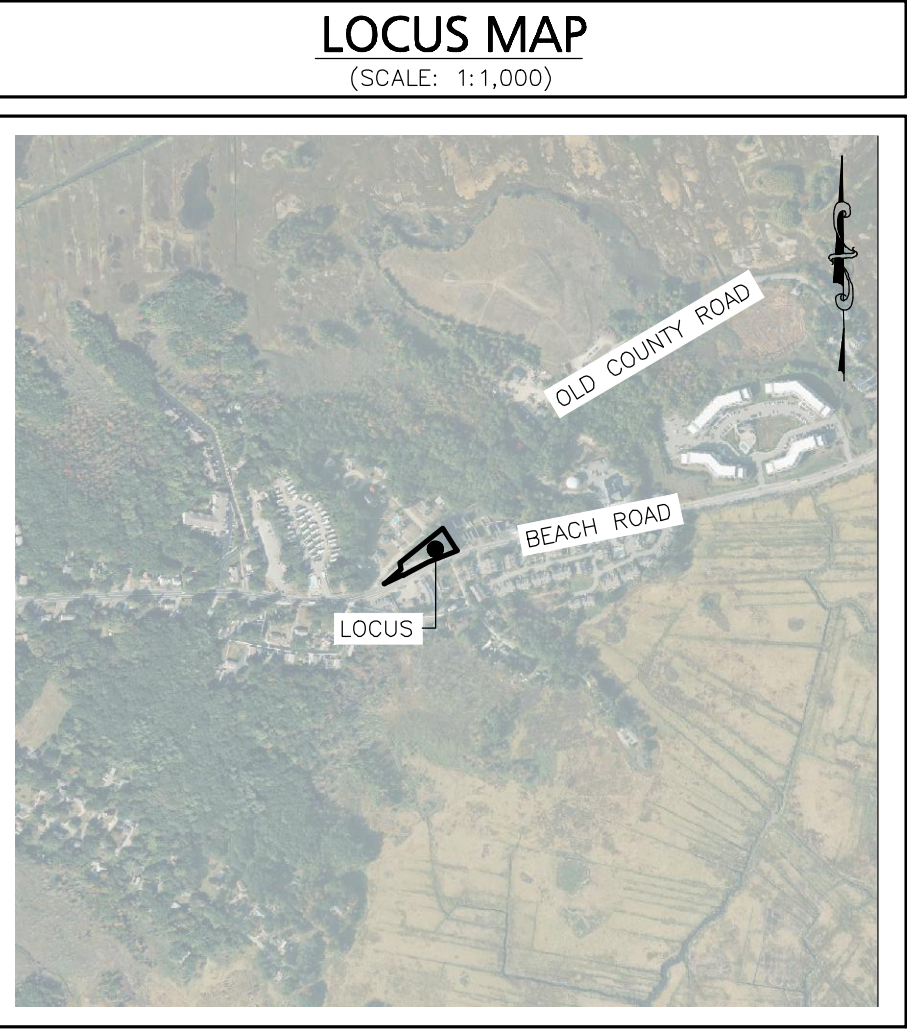
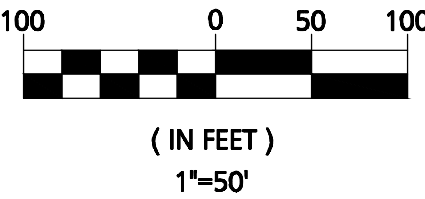
SITE DEVELOPMENT PLANS

FOR

159 BEACH ROAD

(MAP 28 / LOT 1)

SALISBURY, MASSACHUSETTS 01952



TITLE	DATE ISSUED
C-1 COVER SHEET	01/03/23
C-2 EXISTING CONDITIONS PLAN	01/03/23
C-3 GRADING & DRAINAGE PLAN	01/03/23
C-4 LAYOUT & MATERIALS PLAN	01/03/23
C-5 EROSION CONTROL PLAN	01/03/23
C-5 UTILITY LAYOUT PLAN	01/03/23
D-1 CONSTRUCTION DETAILS	01/03/23
D-2 CONSTRUCTION DETAILS	01/03/23

FOR REGISTRY USE ONLY  
THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE  
RULES AND REGULATIONS FOR RECORDING ADOPTED  
BY THE REGISTERS OF DEEDS IN 1978 AND AMENDED  
JANUARY 12, 1988.

ENGINEER DATE  
APPROVED BY THE TOWN OF SALISBURY  
PLANNING BOARD

CERTIFICATE OF ACTION  
DATE OF ENDORSEMENT

1/3/23	REDESIGNED PER TOWN REVIEW
8/30/22	REV. PER TOWN REVIEW
8/2/22	REV. PER TOWN REVIEW
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:	JUNE 14, 2022
PROJECT #:	21-10254
PREPARED BY:	WILLIAM HALL, P.E.

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

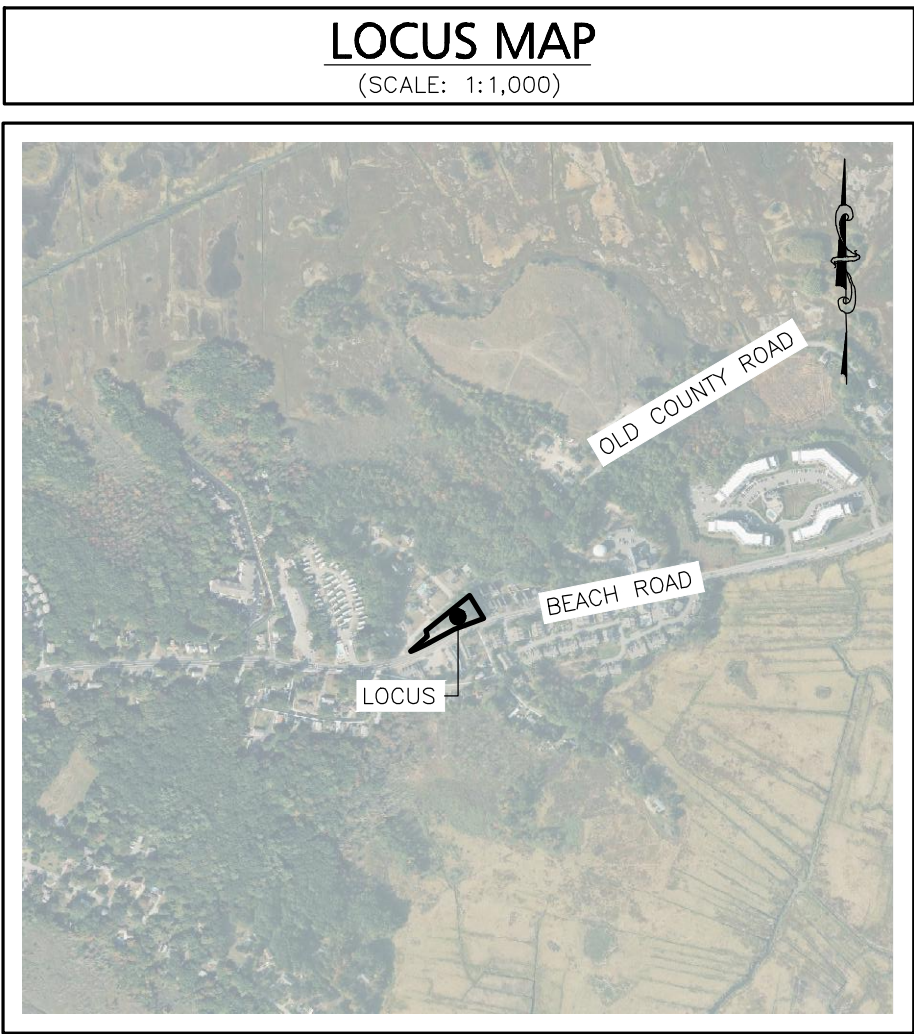
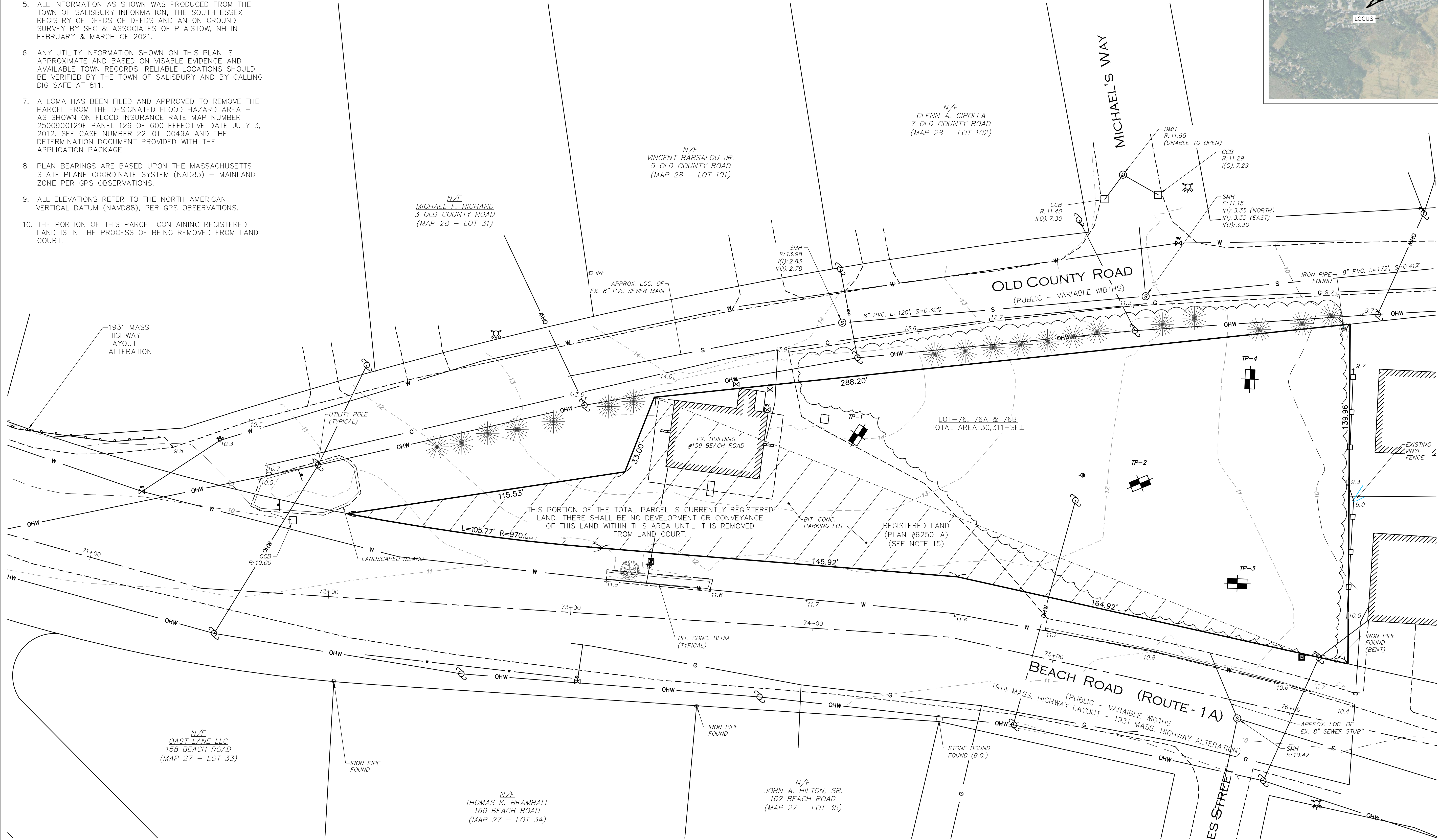
DRAWING #:  
C-1

ISSUED FOR APPROVAL: JANUARY 3, 2023



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SALISBURY MA.
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BOOK 8710 PAGE 72 (1986)
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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.
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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.



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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.

PROFESSIONAL LAND SURVEYOR 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) 416-7965

DRAWING TITLE:  
**EXISTING  
CONDITIONS PLAN**

DRAWING #:

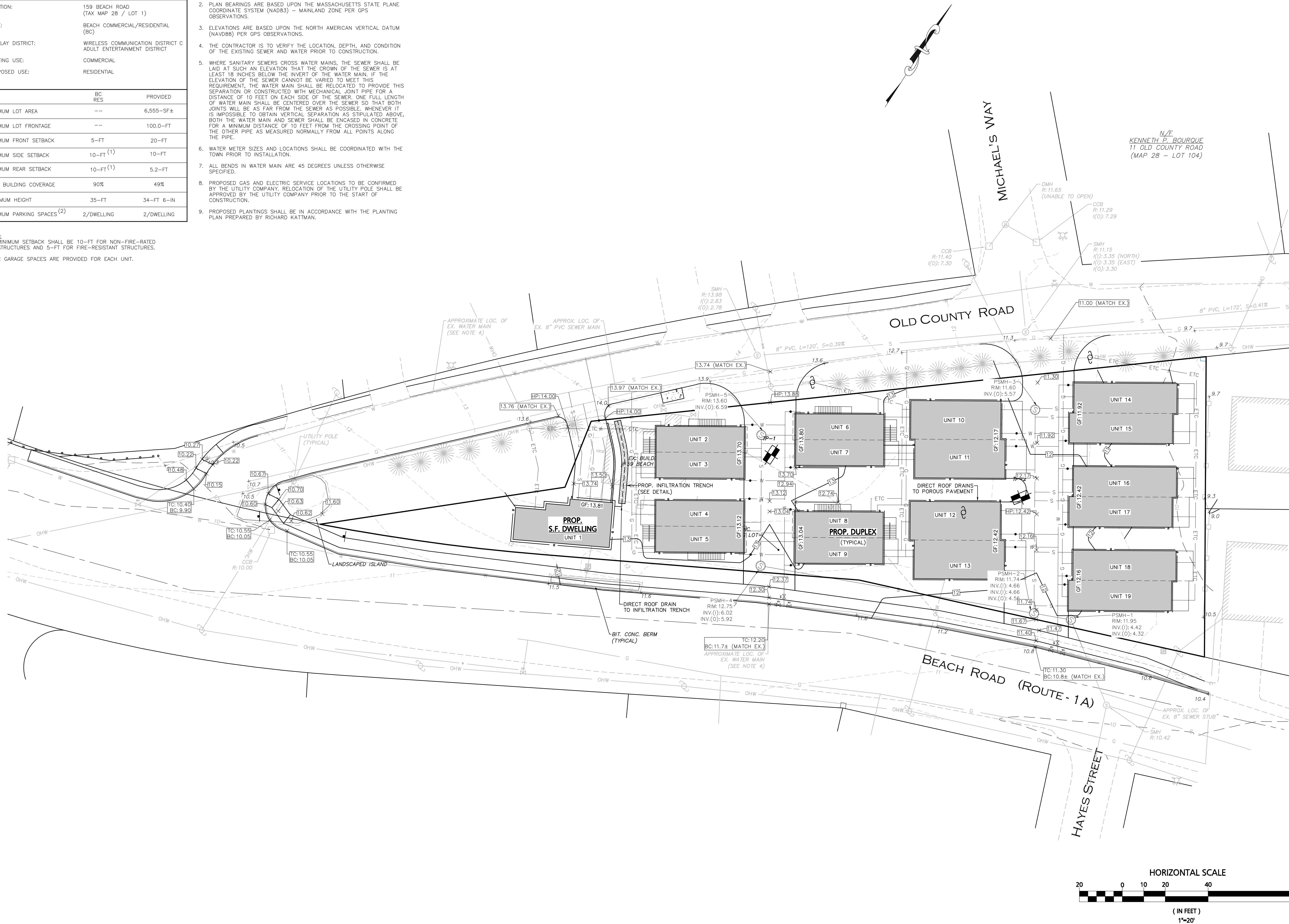
C-2



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	PROVIDED
MINIMUM LOT AREA	--	6,555-SF±
MINIMUM LOT FRONTAGE	--	100.0-FT
MINIMUM FRONT SETBACK	5-FT	20-FT
MINIMUM SIDE SETBACK	10-FT <sup>(1)</sup>	10-FT
MINIMUM REAR SETBACK	10-FT <sup>(1)</sup>	5.2-FT
MAX. BUILDING COVERAGE	90%	49%
MAXIMUM HEIGHT	35-FT	34-FT 6-IN
MINIMUM PARKING SPACES <sup>(2)</sup>	2/DWELLING	2/DWELLING

NOTE:  
1. MINIMUM SETBACK SHALL BE 10-FT FOR NON-FIRE-RATED STRUCTURES AND 5-FT FOR FIRE-RESISTANT STRUCTURES.  
2. 2 GARAGE SPACES ARE PROVIDED FOR EACH UNIT.

- 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.
  - WATER METER SIZES AND LOCATIONS SHALL BE COORDINATED WITH THE TOWN PRIOR TO INSTALLATION.
  - ALL BENDS IN WATER MAIN ARE 45 DEGREES UNLESS OTHERWISE SPECIFIED.
  - PROPOSED GAS AND ELECTRIC SERVICE LOCATIONS TO BE CONFIRMED BY THE UTILITY COMPANY. RELOCATION OF THE UTILITY POLE SHALL BE APPROVED BY THE UTILITY COMPANY PRIOR TO THE START OF CONSTRUCTION.
  - PROPOSED PLANTINGS SHALL BE IN ACCORDANCE WITH THE PLANTING PLAN PREPARED BY RICHARD KATTMAN.



FOR REGISTRY USE ONLY

THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR RECORDING ADOPTED BY THE REGISTERS OF DEEDS IN 1978 AND AMENDED JANUARY 12, 1988.

ENGINEERDATE

APPROVED BY THE TOWN OF SALISBURY  
PLANNING BOARD

CERTIFICATE OF ACTION

DATE OF ENDORSEMENT

1/3/23REDESIGNED PER TOWN REVIEW

8/30/22REV. PER TOWN REVIEW

8/2/22REV. PER TOWN REVIEW

DATEDESCRIPTION

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:

JUNE 14, 2022

PROJECT #:

21-10254

PREPARED BY:

WILLIAM HALL, P.E.

PROFESSIONAL ENGINEER FOR CIVIL DESIGN  
CONSULTANTS, INC.

CIVIL DESIGN  
Consultants, Inc.

SURVEY • DESIGN • PERMITTING • CONSTRUCTION ADMINISTRATION

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Andover, MA 01810Tel: (978) 416-0920  
Fax: (978) 416-7865

DRAWING TITLE:

GRADING &  
DRAINAGE PLAN

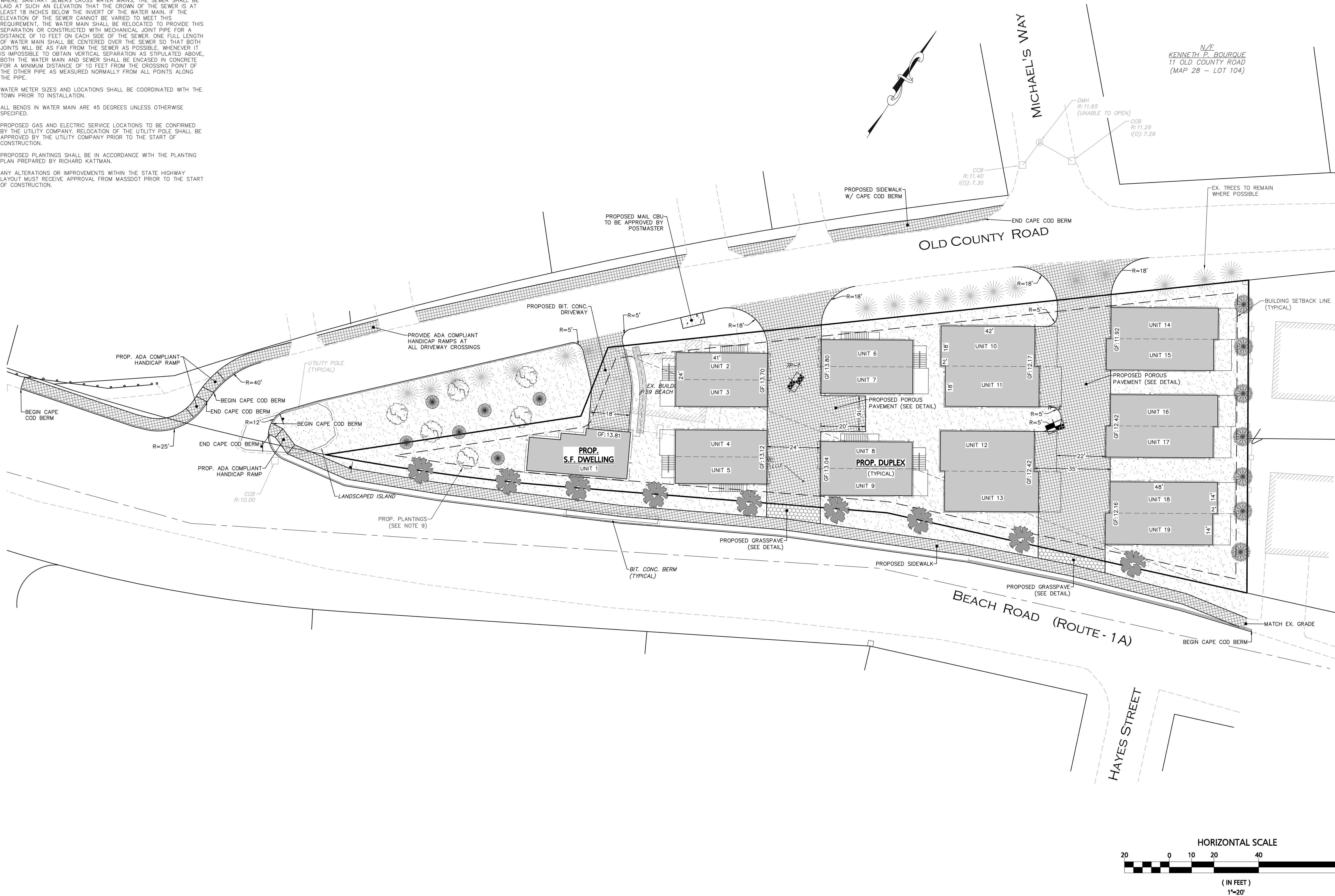
DRAWING #:

C-3



PROJECT NOTES:

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- WATER METER SIZES AND LOCATIONS SHALL BE COORDINATED WITH THE TOWN PRIOR TO INSTALLATION.
- ALL BENDS IN WATER MAIN ARE 45 DEGREES UNLESS OTHERWISE SPECIFIED.
- PROPOSED GAS AND ELECTRIC SERVICE LOCATIONS TO BE CONFIRMED BY THE UTILITY COMPANY. RELOCATION OF THE UTILITY POLE SHALL BE APPROVED BY THE UTILITY COMPANY PRIOR TO THE START OF CONSTRUCTION.
- PROPOSED PLANTINGS SHALL BE IN ACCORDANCE WITH THE PLANTING PLAN PREPARED BY RICHARD KATTMAN.
- ANY ALTERATIONS OR IMPROVEMENTS WITHIN THE STATE HIGHWAY LAYOUT MUST RECEIVE APPROVAL FROM MASSDOT PRIOR TO THE START OF CONSTRUCTION.



FOR REGISTRY USE ONLY  
THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR RECORDING ADOPTED BY THE REGISTERS OF DEEDS IN 1978 AND AMENDED JANUARY 12, 1988.

ENGINEER DATE  
**APPROVED BY THE TOWN OF SALISBURY PLANNING BOARD**

CERTIFICATE OF ACTION  
DATE OF ENDORSEMENT

1/3/23	REDESIGNED PER TOWN REVIEW
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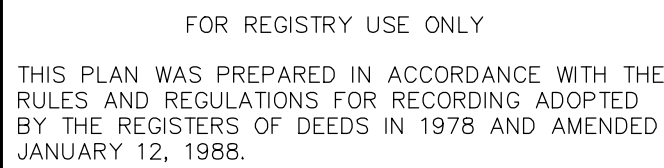
DRAWING TITLE:  
**LAYOUT & MATERIALS PLAN**

DRAWING #:

**C-4**



1. PRIOR TO THE COMMENTMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICE AS SHOWN ON THE PLAN. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED IN EFFECTIVE OPERATION DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF THE PERMIT DOCUMENTS.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE TIMELY INSTALLATION, INSPECTION, MAINTENANCE, AND/OR REPLACEMENT OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES TO ENSURE PROPER OPERATION THROUGHOUT THE LIFE OF THE PROJECT. THE CONDITION OF EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EVERY STORM EVENT. REPAIRS SHALL OCCUR WITHIN 24 HOURS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL DURING CONSTRUCTION. WHEN THE PROJECT IS COMPLETED OR UNTIL IT IS ACCEPTED BY THE OWNER, THE OWNER IS RESPONSIBLE THEREAFTER.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ROADS, CONTROL DUST, AND TAKE ALL NECESSARY MEASURES TO ENSURE THAT THE SITE AND ALL ROADS BE MAINTAINED IN A MUD AND DUST-FREE CONDITION AT ALL TIMES THROUGHOUT THE LIFE OF THE CONTRACT IN A MANNER APPROVED BY THE LOCAL DEPARTMENT OF PUBLIC WORKS. METHODS SHALL INCLUDE, BUT NOT BE LIMITED TO, SWEEPING OF THE STREET AND APPLICATION OF WATER TO CONTROL DUST.
4. ALL PROPOSED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND DETAILS. ALL VEHICLE ENTRANCES SHALL BE CONSTRUCTED TO THE WORK AREA SHALL PASS OVER THE CONSTRUCTION ENTRANCE TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO THE SURROUNDING ROADWAYS.
5. THE CONTRACTOR SHALL INSTALL ALL PERIMETER SEDIMENT CONTROL BARRIERS AS SHOWN ON THE SITE DEVELOPMENT PLANS. SILT FENCE SHALL ALSO BE INSTALLED AROUND ANY SOIL STOCKPILE AREAS.
6. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS AS CLOSELY AS POSSIBLE. ORIGINAL DRAINAGE DURING CONSTRUCTION SHALL BE RESEDED, REFINISHED, OR OTHERWISE RESTORED TO THEIR ORIGINAL STATE. TREES AND OTHER EXISTING VEGETATION SHALL BE RETAINED WHEREVER FEASIBLE.
7. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED TO ANY DISTURBED AREAS (INCLUDING SOIL STOCKPILE AREAS) THAT HAVE NOT YET REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS. THE RECOMMENDED TEMPORARY SEEDING DATES ARE MARCH 1 TO JUNE 15 AND AUGUST 15 TO OCTOBER 1.
8. PERMANENT VEGETATIVE COVER SHALL BE APPLIED TO ALL DISTURBED AREAS THAT HAVE REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS PERMANENTLY CEASED.
9. ANY EXISTING OR PROPOSED CATCH BASINS THAT MAY BE SUBJECT TO SEDIMENTATION PROCESSES SHALL HAVE SILT TRAPS INSTALLED PRIOR TO ENTERING THE PROPOSED STORM DRAINAGE SYSTEM PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED SITE. THE PROPER INLET PROTECTION DEVICES SHALL BE INSTALLED WHERE STORM DRAIN INLETS ARE TO BE MADE OPERATIONAL BEFORE PERMANENT STABILIZATION OF ANY DISTURBED DRAINAGE AREA.
10. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, 2002 EDITION, AND VOLUME TWO OF THE MASSACHUSETTS STORM WATER MANAGEMENT HANDBOOK.
11. GOOD HOUSEKEEPING: THE PROJECT SITE SHALL PROVIDE FOR THE MINIMIZATION OF EXPOSURE OF DUST TO THE PUBLIC. DUST SHALL BE LIMITED TO THE FOLLOWING: (1) DUST FROM TRUCKS, CANS, SOLVENTS, WALL BOARD, ETC.) TO PRECIPITATION BY MEANS OF DISPOSAL AND/OR PROPER SHELTER OR COVER AS APPROVED BY THE LOCAL DEPARTMENT OF PUBLIC WORKS. IN ADDITION, CONSTRUCTION WASTE MUST BE PROPERLY DISPOSED OF IN A COVERED DUMPSTER IN ORDER TO AVOID EXPOSURE TO PRECIPITATION AT THE END OF EACH WORKING DAY.
12. NO DUST WILL BE ALLOWED ON OR OFF WORK SITE. CONTRACTOR MUST CONDUCT CONTINUOUS EFFORT TO CONTROL DUST. LOCAL DEPARTMENT OF PUBLIC WORKS MAY CAUSE THE PROJECT TO BE STOPPED UNTIL ISSUES ARE RESOLVED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTROL DUST AND TAKE ALL NECESSARY MEASURES TO ENSURE ALL ROADS ARE MAINTAINED IN A DUST FREE CONDITION AT ALL TIMES THROUGHOUT THE LIFE OF THE CONTRACT IN A MANNER APPROVED BY THE LOCAL DEPARTMENT OF PUBLIC WORKS. DUST CONTROL CAN BE MAINTAINED BY APPLICATION OF WATER, OR OTHER MEANS APPROVED BY THE LOCAL DEPARTMENT OF PUBLIC WORKS.
13. REPAIRS OR REPLACEMENT OF DRAINAGE STRUCTURES, RIP RAP CHANNELS, OR OTHER ELEMENTS OF THE FACILITY SHOULD BE DONE WITHIN 14 DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT MUST BE DONE IMMEDIATELY TO AVOID FAILURE OR DANGER TO NEARBY RESIDENTS.
14. IMMEDIATELY PRIOR TO THE END OF CONSTRUCTION OR ACCEPTANCE BY THE OWNER, THE CONTRACTOR SHALL INSPECT ALL ON-SITE STORMWATER MANAGEMENT FACILITIES AND CLEAN AND FLUSH AS NECESSARY.
15. THE GENERAL CONTRACTOR OR NOMINEE WILL BE THE PARTY RESPONSIBLE FOR THE INSPECTION, MAINTENANCE, AND REQUIRED DOCUMENTATION OF ALL STORM WATER STRUCTURES AS OUTLINED WITHIN.



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DATE OF ENDORSEMENT \_\_\_\_\_

1/3/23	REDESIGNED PER TOWN REVIEW
8/30/22	REV. PER TOWN REVIEW
8/2/22	REV. PER TOWN REVIEW
DATE	DESCRIPTION
REVISIONS	

383 MAIN STREET  
MEDFIELD, MA 02052

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

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PREPARED BY:	WILLIAM HALL, P.E.



**CIVIL DESIGN**  
Consultants, Inc.

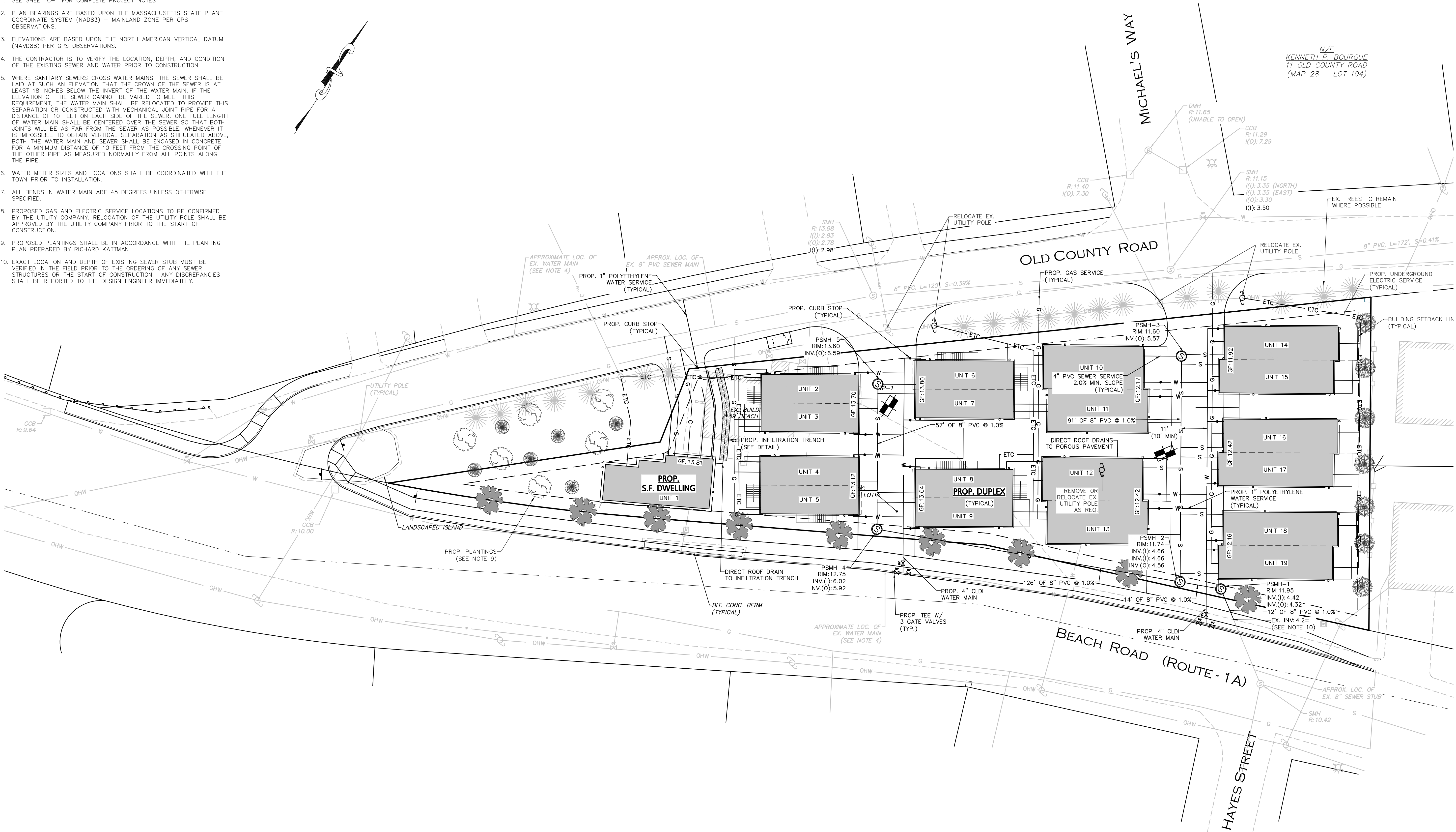
# EROSION CONTROL PLAN

C-5



PROJECT NOTES:

- SEE SHEET C-1 FOR COMPLETE PROJECT NOTES
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- PROPOSED GAS AND ELECTRIC SERVICE LOCATIONS TO BE CONFIRMED BY THE UTILITY COMPANY. RELOCATION OF THE UTILITY POLE SHALL BE APPROVED BY THE UTILITY COMPANY PRIOR TO THE START OF CONSTRUCTION.
- PROPOSED PLANTINGS SHALL BE IN ACCORDANCE WITH THE PLANTING PLAN PREPARED BY RICHARD KATTMAN.
- EXACT LOCATION AND DEPTH OF EXISTING SEWER STUB MUST BE VERIFIED IN THE FIELD PRIOR TO THE ORDERING OF ANY SEWER STRUCTURES OR THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY.



FOR REGISTRY USE ONLY  
THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR RECORDING ADOPTED BY THE REGISTERS OF DEEDS IN 1978 AND AMENDED JANUARY 12, 1988.

ENGINEER DATE  
**APPROVED BY THE TOWN OF SALISBURY PLANNING BOARD**

CERTIFICATE OF ACTION  
DATE OF ENDORSEMENT

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8/30/22	REV. PER TOWN REVIEW
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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:	AUGUST 2, 2022
PROJECT #:	21-10254
PREPARED BY:	WILLIAM HALL, P.E.

PROFESSIONAL ENGINEER FOR CIVIL DESIGN  
CONSULTANTS, INC.

**CIVIL DESIGN**  
Consultants, Inc.  
SURVEY • DESIGN • PERMITTING • CONSTRUCTION ADMINISTRATION

344 North Main Street  
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DRAWING TITLE:  
**UTILITY LAYOUT PLAN**

DRAWING #:

**C-6**



GENERAL UTILITY NOTES:

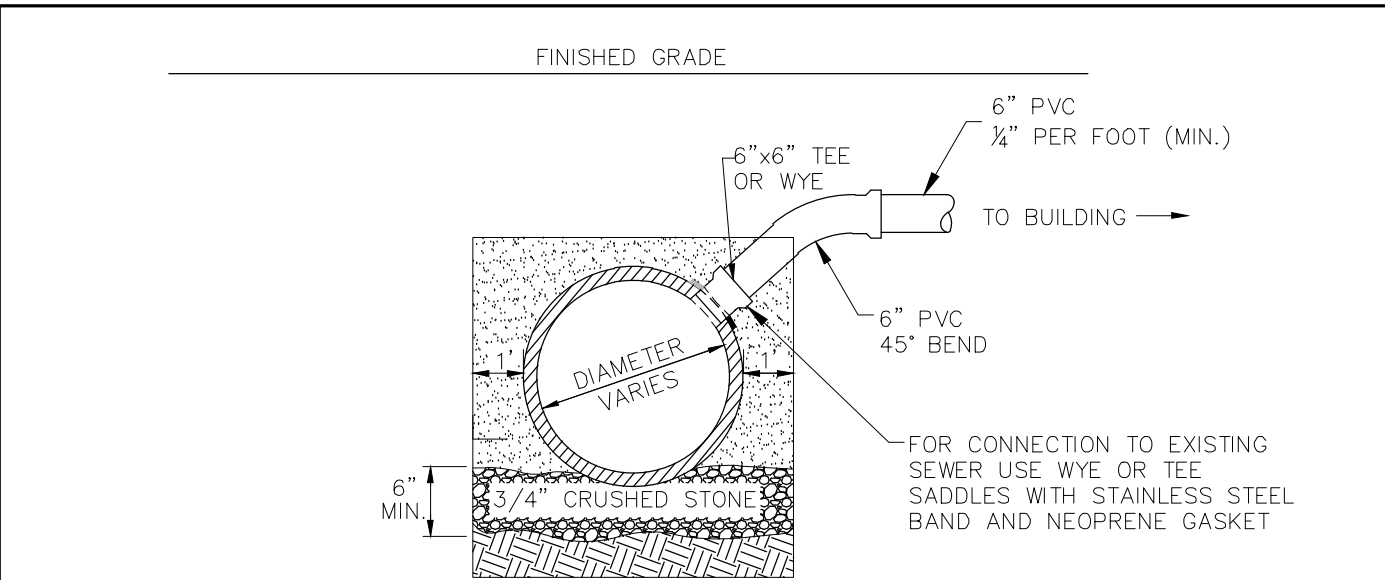
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK.
2. WHERE SANITARY SEWERS CROSS WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN. 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.
14. CONTRACTOR TO COORDINATE ALL BUILDING PENETRATIONS AND ROOF LEADER LOCATIONS WITH ARCHITECTURAL DOCUMENTS PRIOR TO CONSTRUCTION.

LANDSCAPE NOTES

1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING AND LANDSCAPING WORK.
2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
3. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
4. PLANTS FURNISHED IN CONTAINERS SHALL HAVE THE ROOTS WELL ESTABLISHED IN THE SOIL MASS AND SHALL HAVE AT LEAST ONE (1) GROWING SEASON. ROOT-BOUND PLANTS OR INADEQUATELY SIZED CONTAINERS TO SUPPORT THE PLANT, MAY BE DEEMED UNACCEPTABLE.
5. NO PLANT SHALL BE PUT IN THE GROUND BEFORE GRADING HAS BEEN FINISHED FOR PHASE 2.
6. ALL PLANTS SHALL BE INSTALLED AS DETAILED.
7. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY OR MORE OFTEN, IF NECESSARY DURING THE FIRST GROWING SEASON.
8. FIELD ADJUST ALL PLANTINGS AS NECESSARY TO AVOID CONFLICTS WITH UTILITIES.

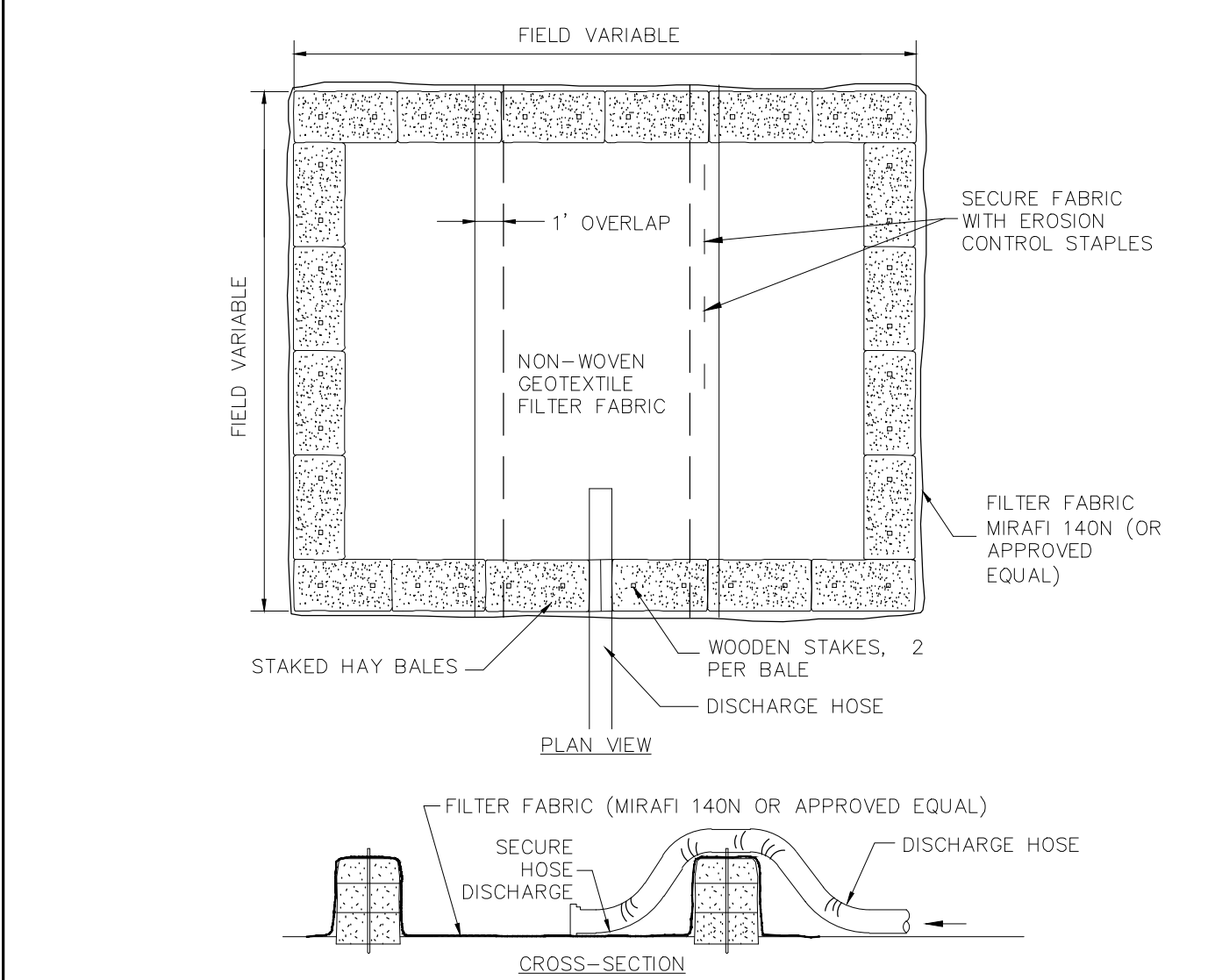
GENERAL CONSTRUCTION NOTES

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 7 AM TO 4 PM, MONDAY THROUGH FRIDAY, AND 7 AM TO NOON ON SATURDAY. EXTENDED HOURS REQUIRE PERMISSION FROM THE DEPARTMENT OF PUBLIC WORKS.
13. CONSTRUCTION VEHICLES AND PERSONNEL MUST NOT OBSTRUCT THE PUBLIC SIDEWALKS, NOR INTERFERE WITH SIGHT DISTANCES FOR TURNING VEHICLES.



SANITARY SEWER SERVICE AT MAIN

NOT TO SCALE

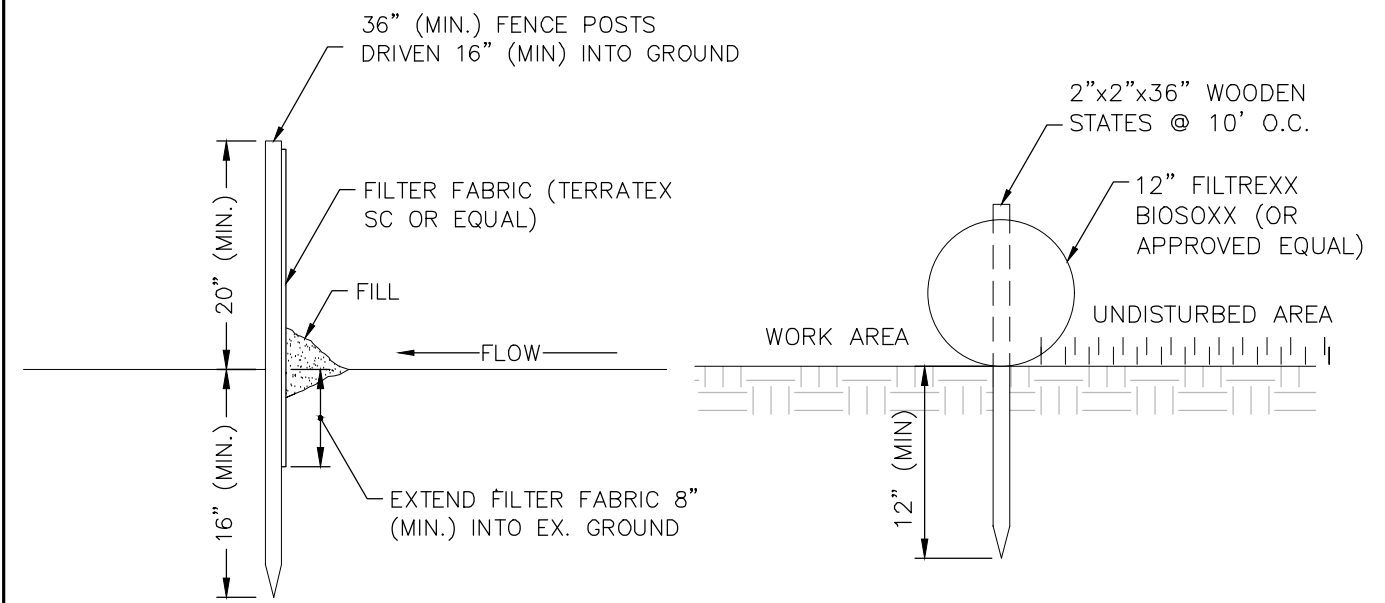


NOTES:

1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
2. BASIN TO BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.

DEWATERING HAYBALE BASIN

NOT TO SCALE

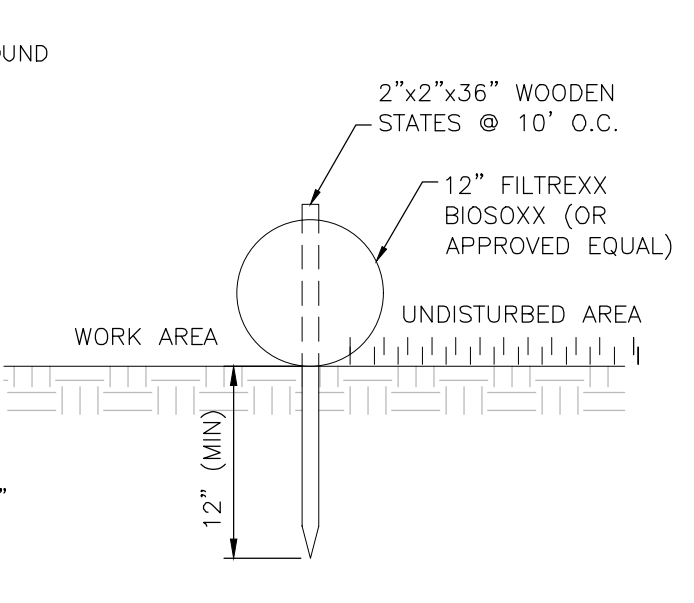


NOTES:

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

FILTER FABRIC SILT FENCE

NOT TO SCALE

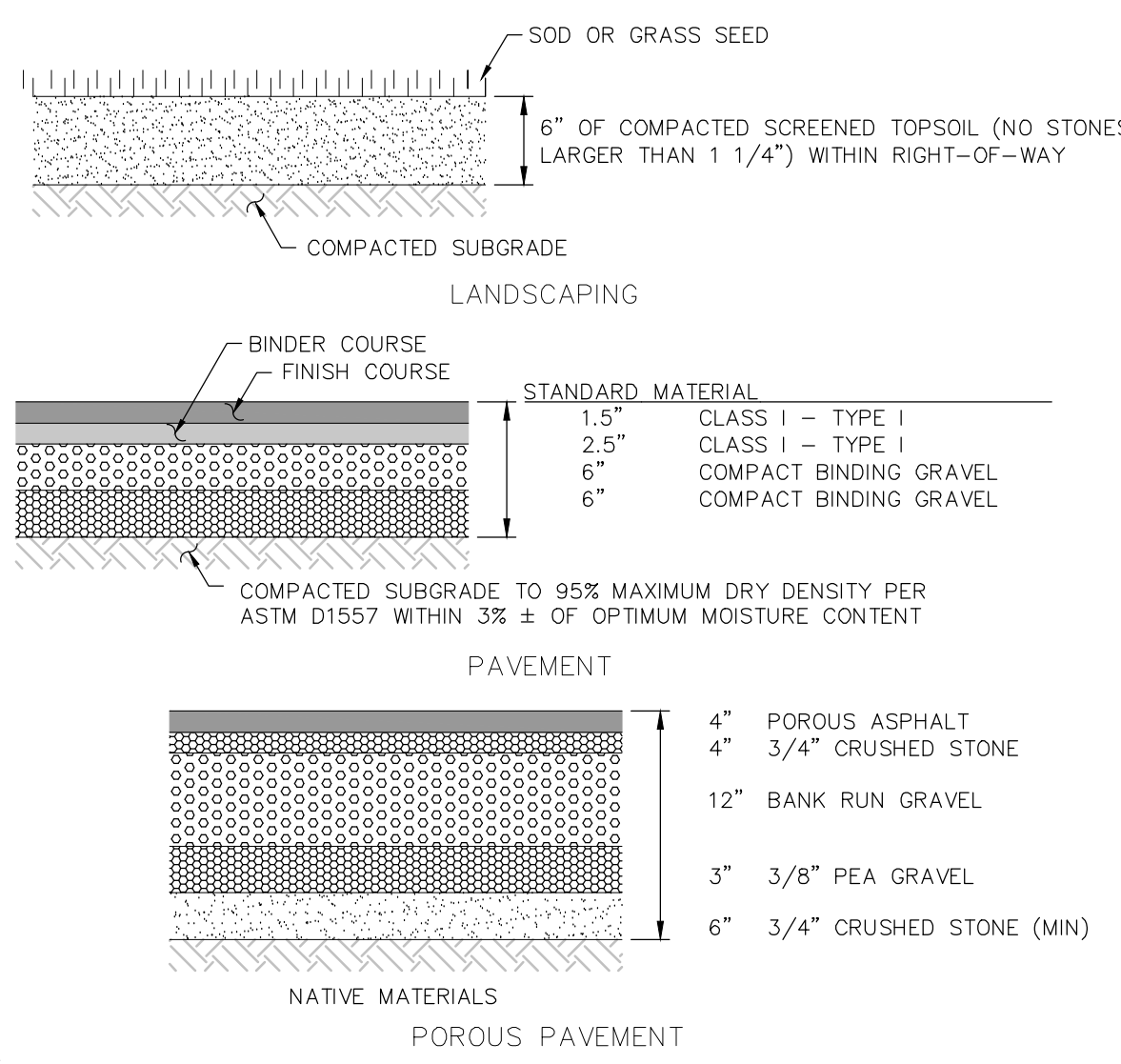


MAINTENANCE:

1. FILTER SOCK SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, REPLACE PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. SEDIMENT DEPOSITS SHALL BE REMOVED WITH FILTER SOCK UPON COMPLETION OF CONSTRUCTION ACTIVITIES.

FILTER SOCK INSTALLATION

NOT TO SCALE

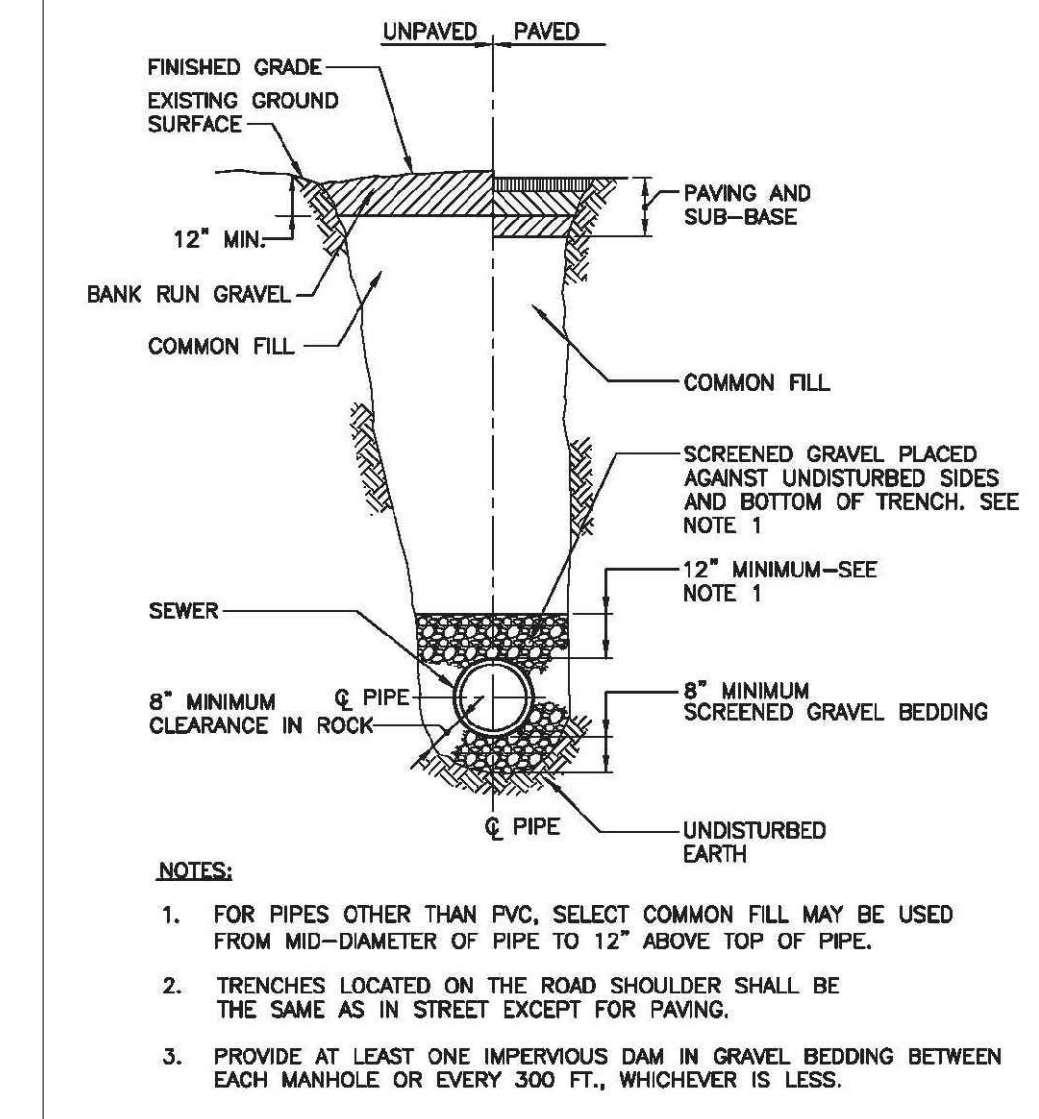


NOTES:

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

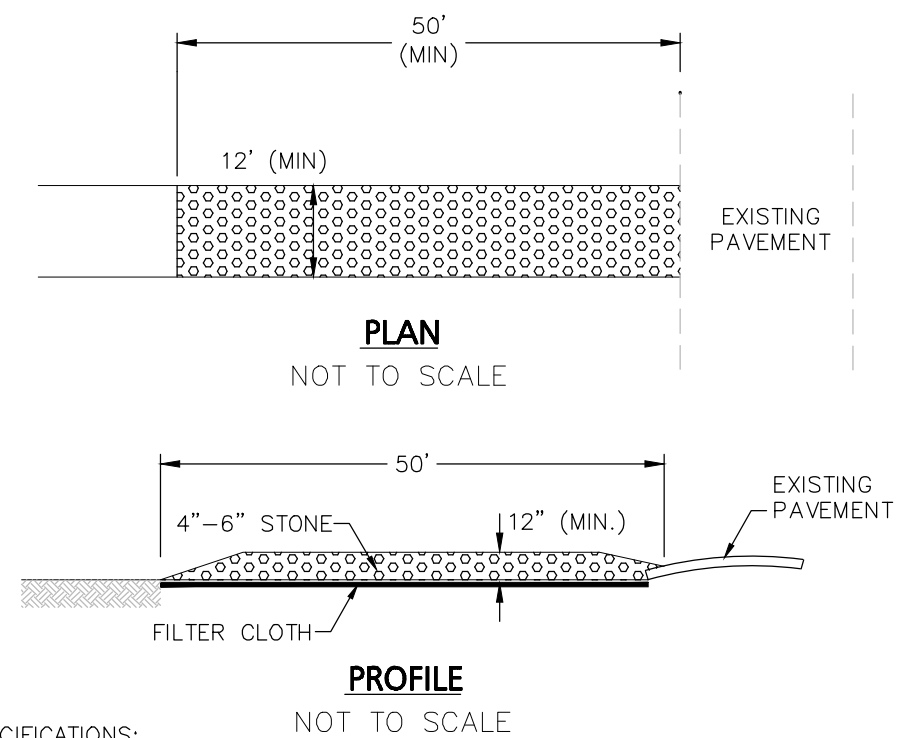


NOTES:

1. FOR PIPES OTHER THAN PVC, SELECT COMMON FILL MAY BE USED FROM MID-DIAMETER OF PIPE TO 12" ABOVE TOP OF PIPE.
2. TRENCHES LOCATED ON THE ROAD SHOULDER SHALL BE THE SAME AS IN STREET EXCEPT FOR PAVING.
3. PROVIDE AT LEAST ONE IMPERVIOUS DAM IN GRAVEL BEDDING BETWEEN EACH MANHOLE OR EVERY 500 FT., WHICHEVER IS LESS.

TYPICAL SEWER TRENCH

NOT TO SCALE

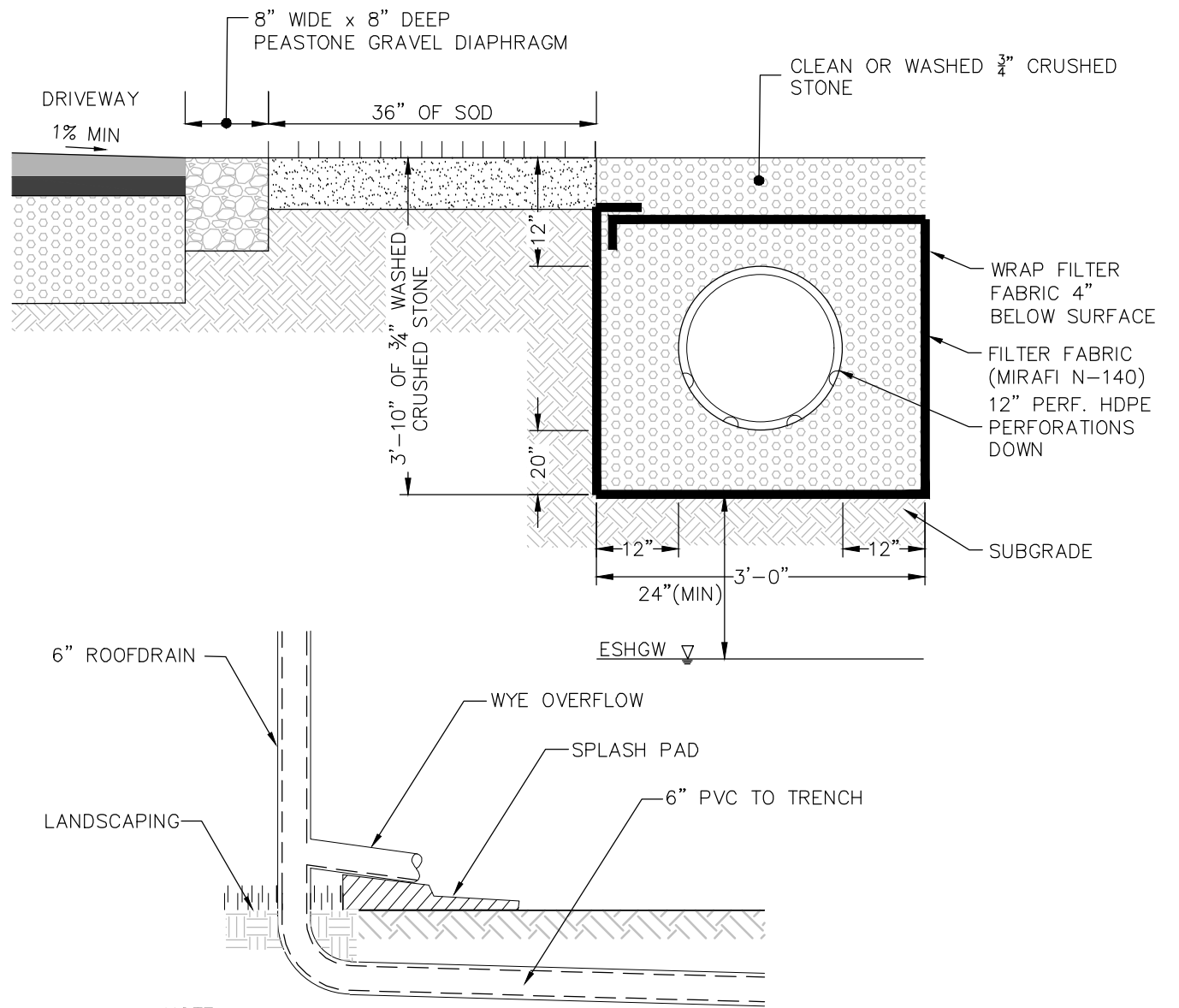


CONSTRUCTION SPECIFICATIONS:

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

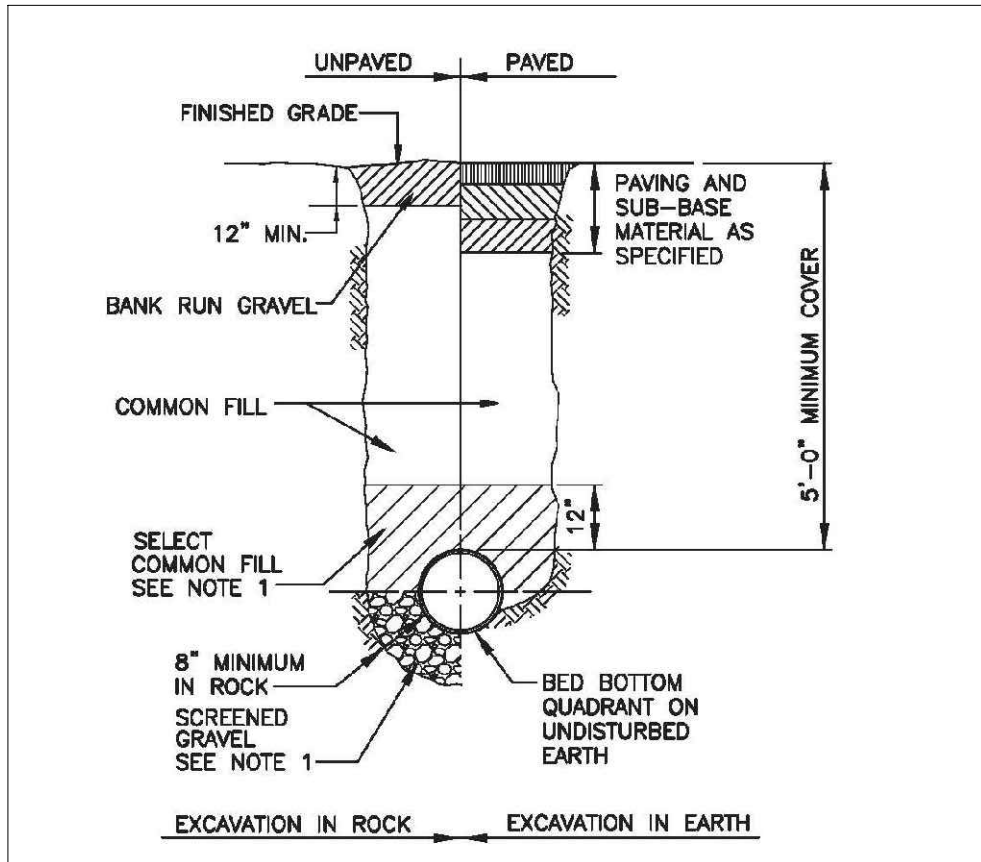
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NOTE: ANY ORGANIC MATERIAL OR UNSUITABLE FILL ENCOUNTERED SHALL BE REMOVED AND REPLACED WITH CLEAN SAND.

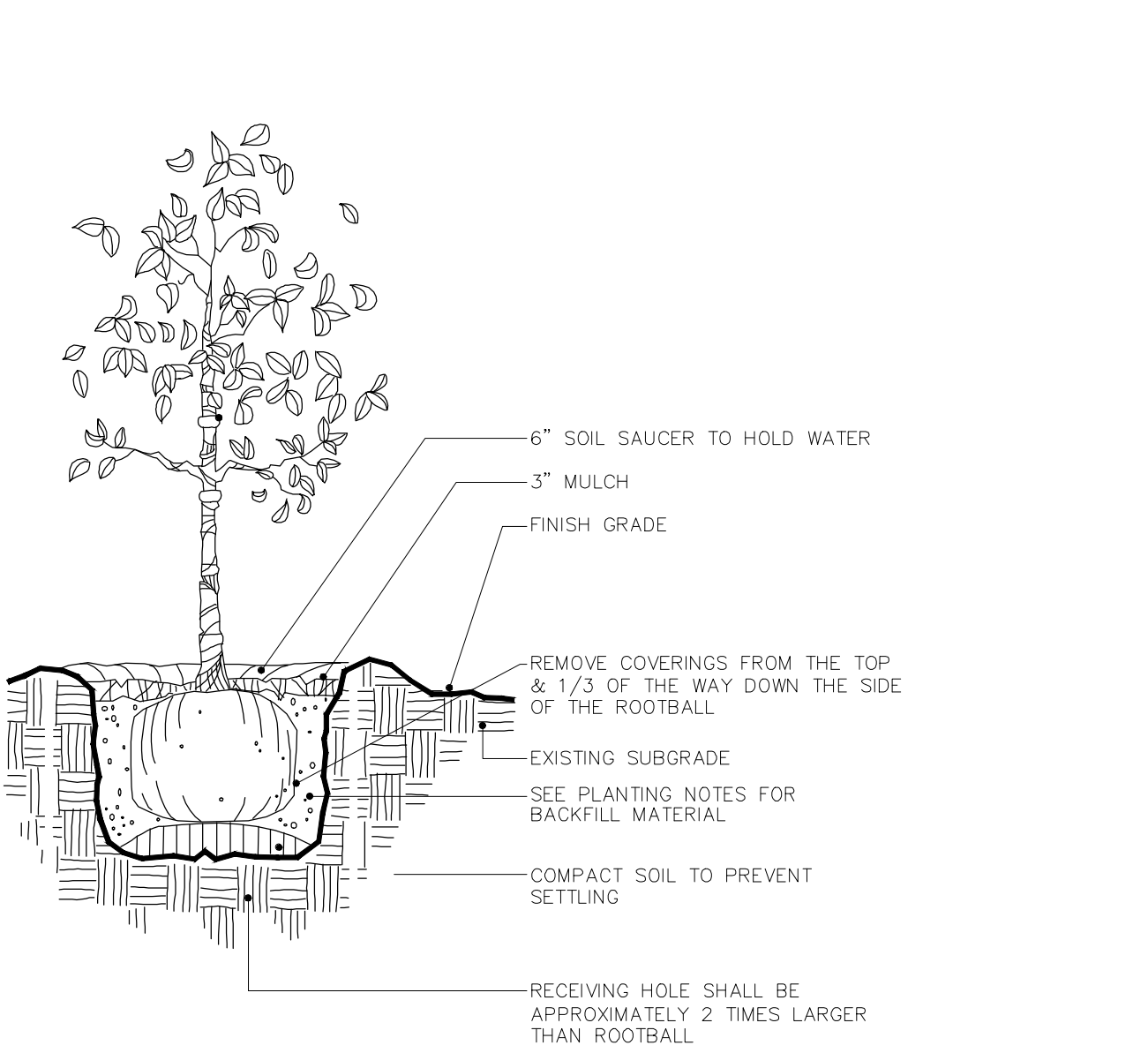
ROOFDRAIN CONNECTION AND INFILTRATION TRENCH DETAIL

NOT TO SCALE



TYPICAL WATER MAIN TRENCH

NOT TO SCALE



SMALL TREE PLANTING/STAKING DETAIL

NOT TO SCALE

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PREPARED FOR:

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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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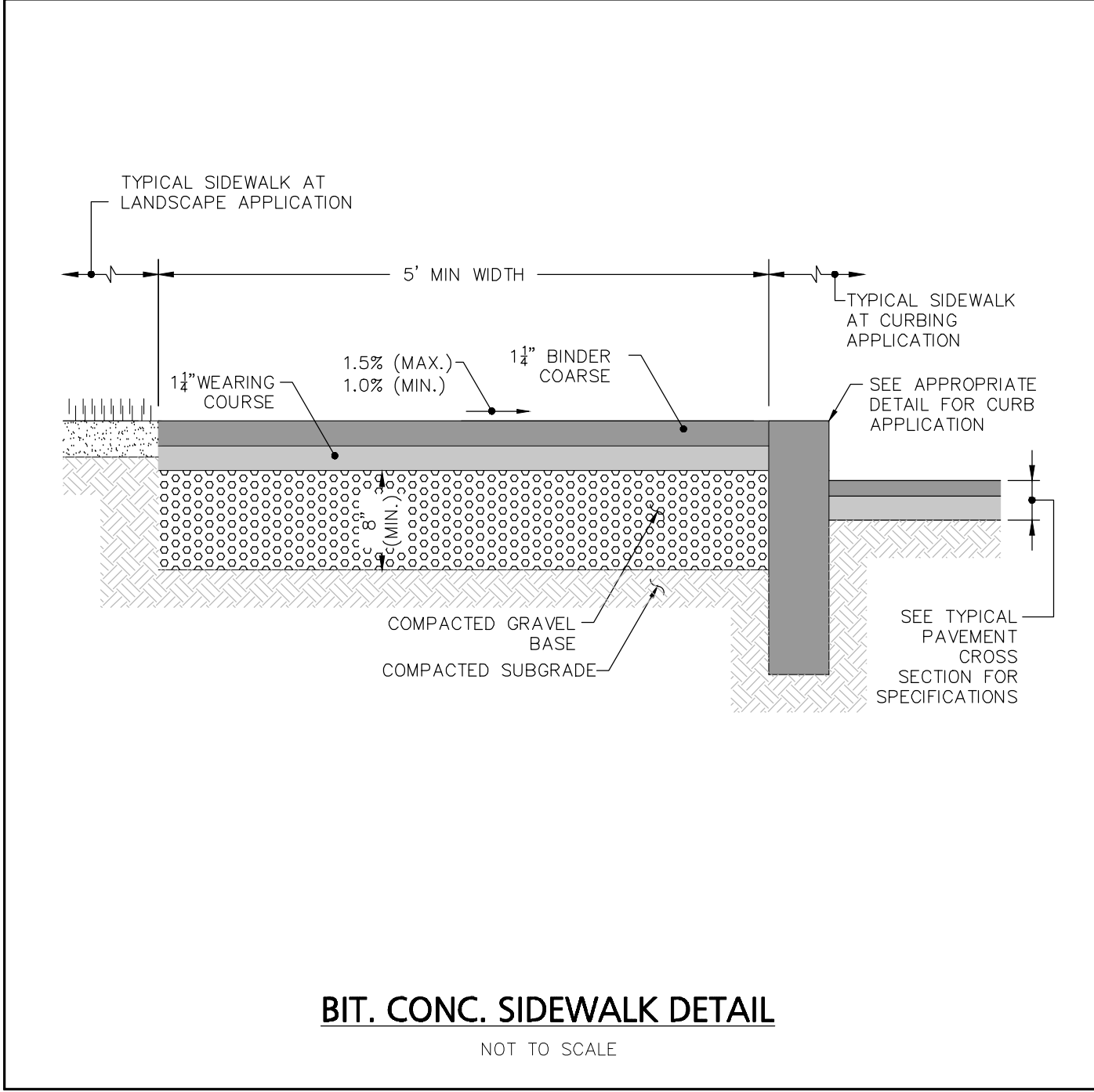
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CONSTRUCTION DETAILS

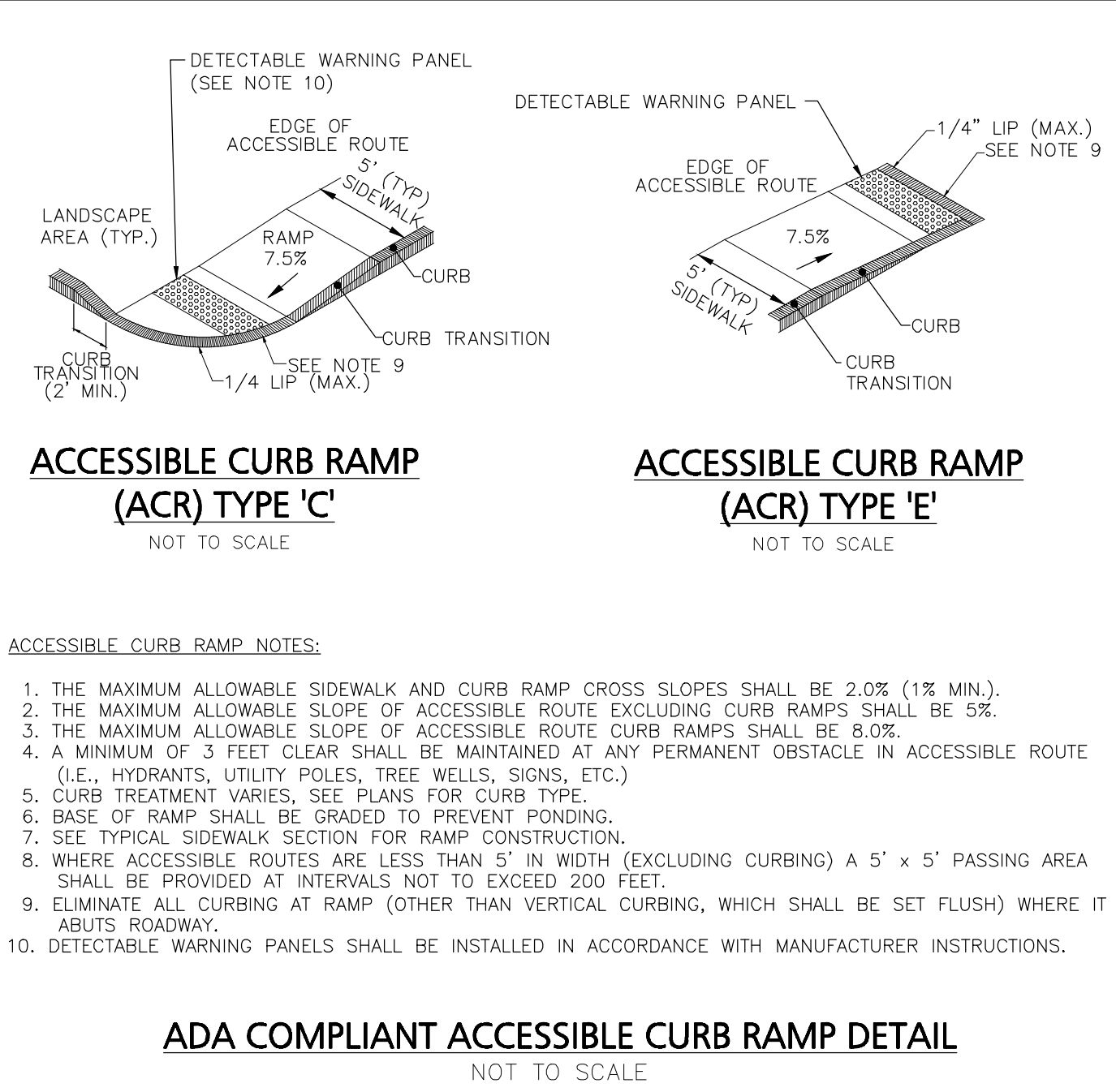
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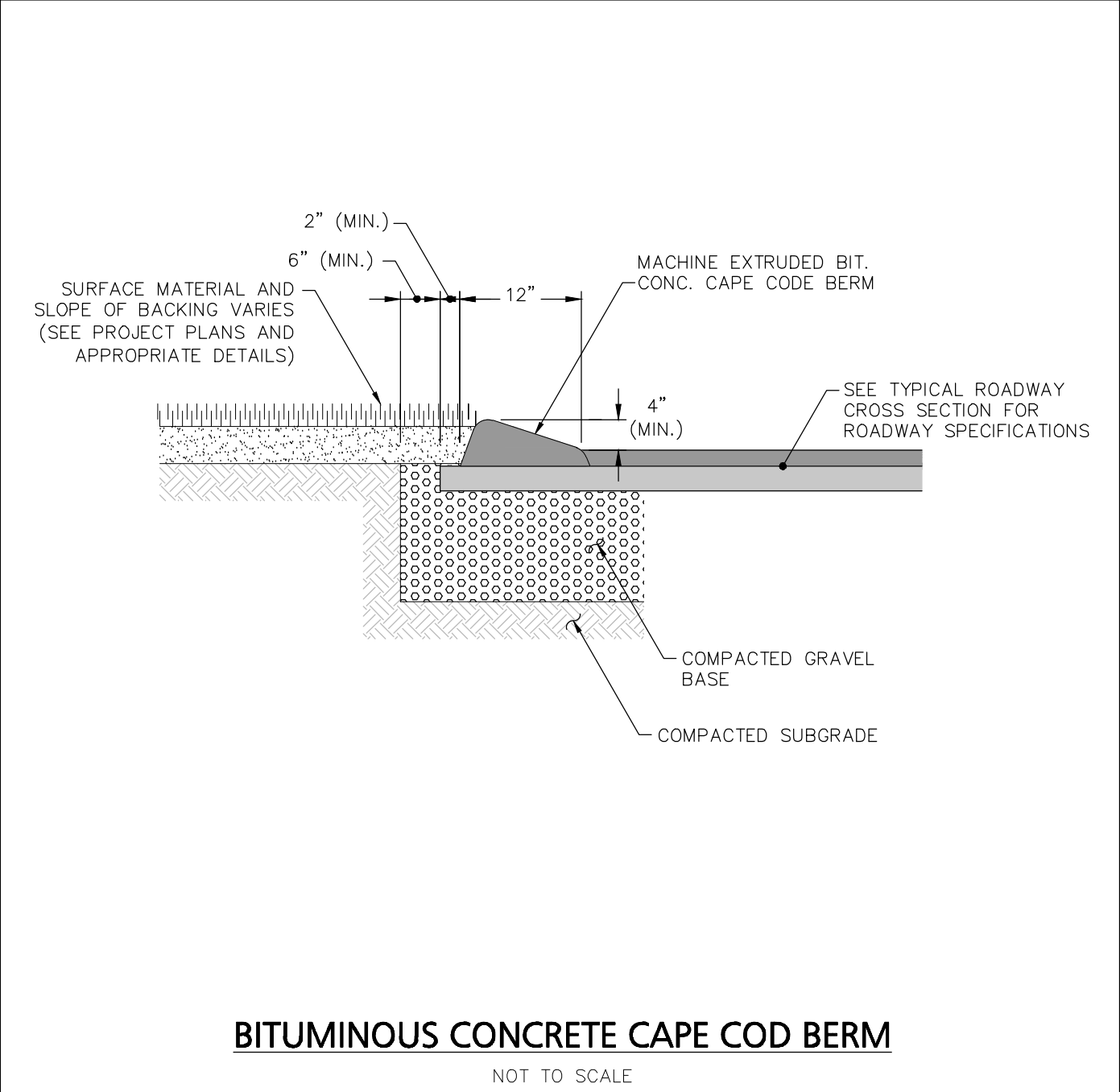


BIT. CONC. SIDEWALK DETAIL  
NOT TO SCALE

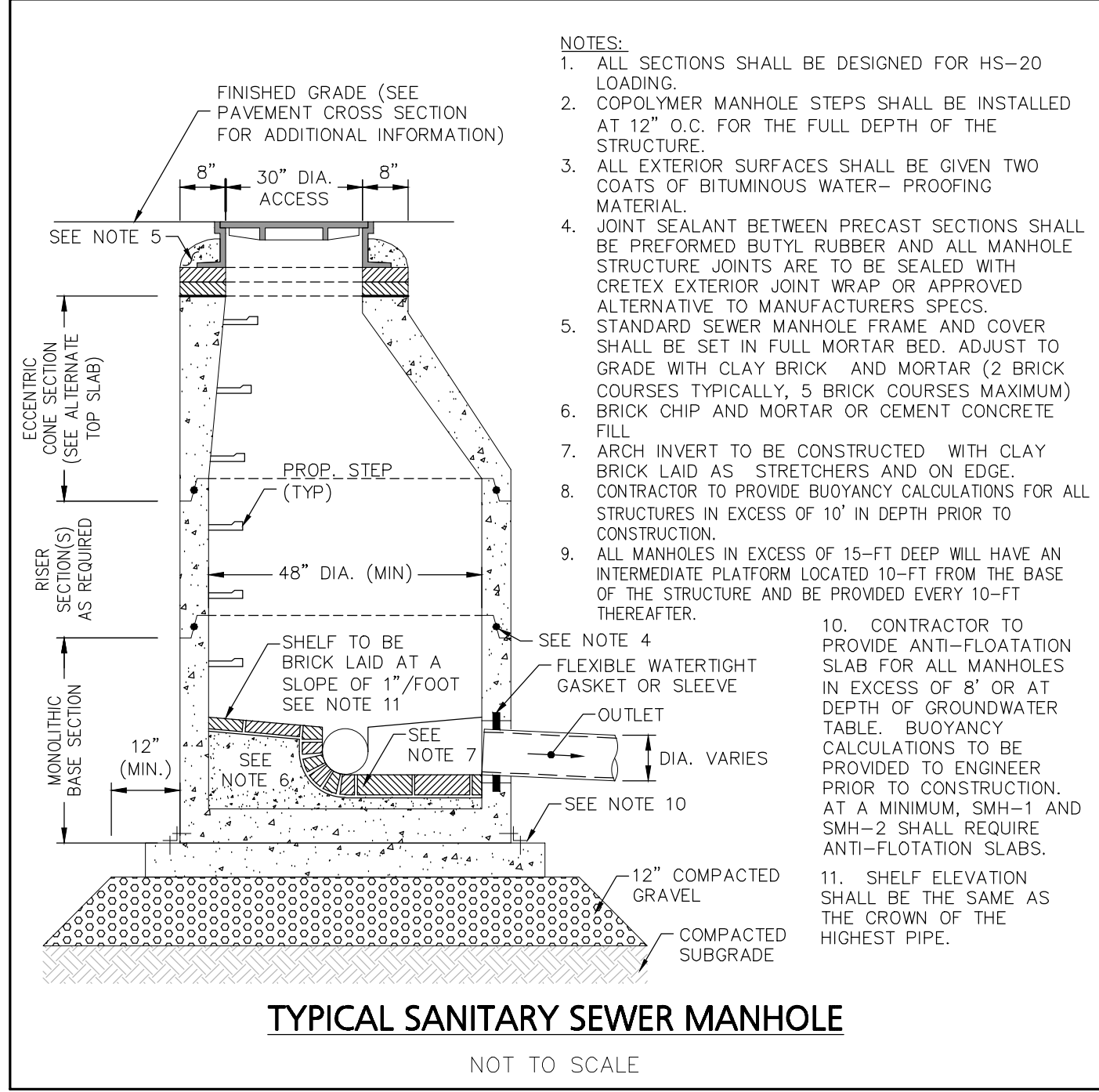


- ACCESSIBLE CURB RAMP NOTES:
1. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP GROSS SLOPES SHALL BE 2.0% (1% MIN.).
  2. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.
  3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMPS SHALL BE 8.0%.
  4. A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
  5. CURB TREATMENT VARIES, SEE PLANS FOR CURB TYPE.
  6. BASE OF RAMP SHALL BE GRADED TO PREVENT PONDING.
  7. SEE TYPICAL SIDEWALK SECTION FOR RAMP CONSTRUCTION.
  8. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5' x 5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.
  9. ELIMINATE ALL CURBING AT RAMP (OTHER THAN VERTICAL CURBING, WHICH SHALL BE SET FLUSH) WHERE IT ABUTS ROADWAY.
  10. DETECTABLE WARNING PANELS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.

ADA COMPLIANT ACCESSIBLE CURB RAMP DETAIL  
NOT TO SCALE

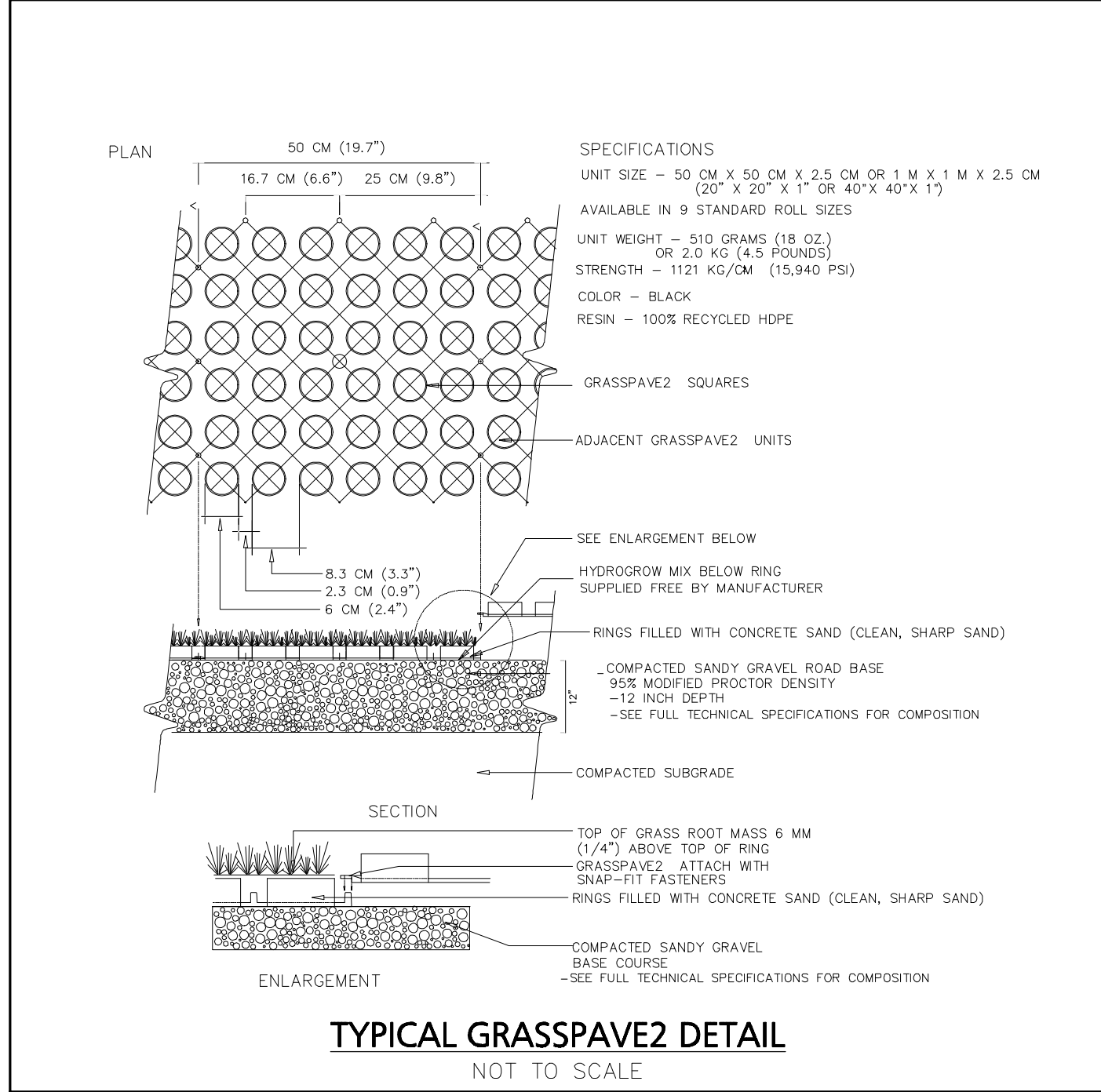


BITUMINOUS CONCRETE CAPE COD BERM  
NOT TO SCALE



- NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
  2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
  3. ALL EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATER-PROOFING MATERIAL.
  4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER AND ALL MANHOLE STRUCTURE JOINTS ARE TO BE SEALED WITH CRETEX EXTERIOR JOINT WRAP OR APPROVED ALTERNATIVE TO MANUFACTURERS SPECS.
  5. STANDARD SEWER MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY - 5 BRICK COURSES MAXIMUM).
  6. BRICK CHIP AND MORTAR OR CEMENT CONCRETE FILL.
  7. ARCH INVERT TO BE CONSTRUCTED WITH CLAY BRICK LAID AS STRETCHERS AND ON EDGE.
  8. CONTRACTOR TO PROVIDE BUOYANCY CALCULATIONS FOR ALL STRUCTURES IN EXCESS OF 10' IN DEPTH PRIOR TO CONSTRUCTION.
  9. ALL MANHOLES IN EXCESS OF 15-FT DEEP WILL HAVE AN INTERMEDIATE PLATFORM LOCATED 10-FT FROM THE BASE OF THE STRUCTURE AND BE PROVIDED EVERY 10-FT THEREAFTER.
  10. CONTRACTOR TO PROVIDE ANTI-FLOTATION SLAB FOR ALL MANHOLES IN EXCESS OF 8' OR AT DEPTH OF GROUNDWATER TABLE. BUOYANCY CALCULATIONS TO BE PROVIDED TO ENGINEER PRIOR TO CONSTRUCTION. AT A MINIMUM, SMH-1 AND SMH-2 SHALL REQUIRE ANTI-FLOTATION SLABS.
  11. SHELF ELEVATION SHALL BE THE SAME AS THE CROWN OF THE HIGHEST PIPE.

TYPICAL SANITARY SEWER MANHOLE  
NOT TO SCALE



TYPICAL GRASSPAVE2 DETAIL  
NOT TO SCALE

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DETAILS**

DRAWING #:  
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