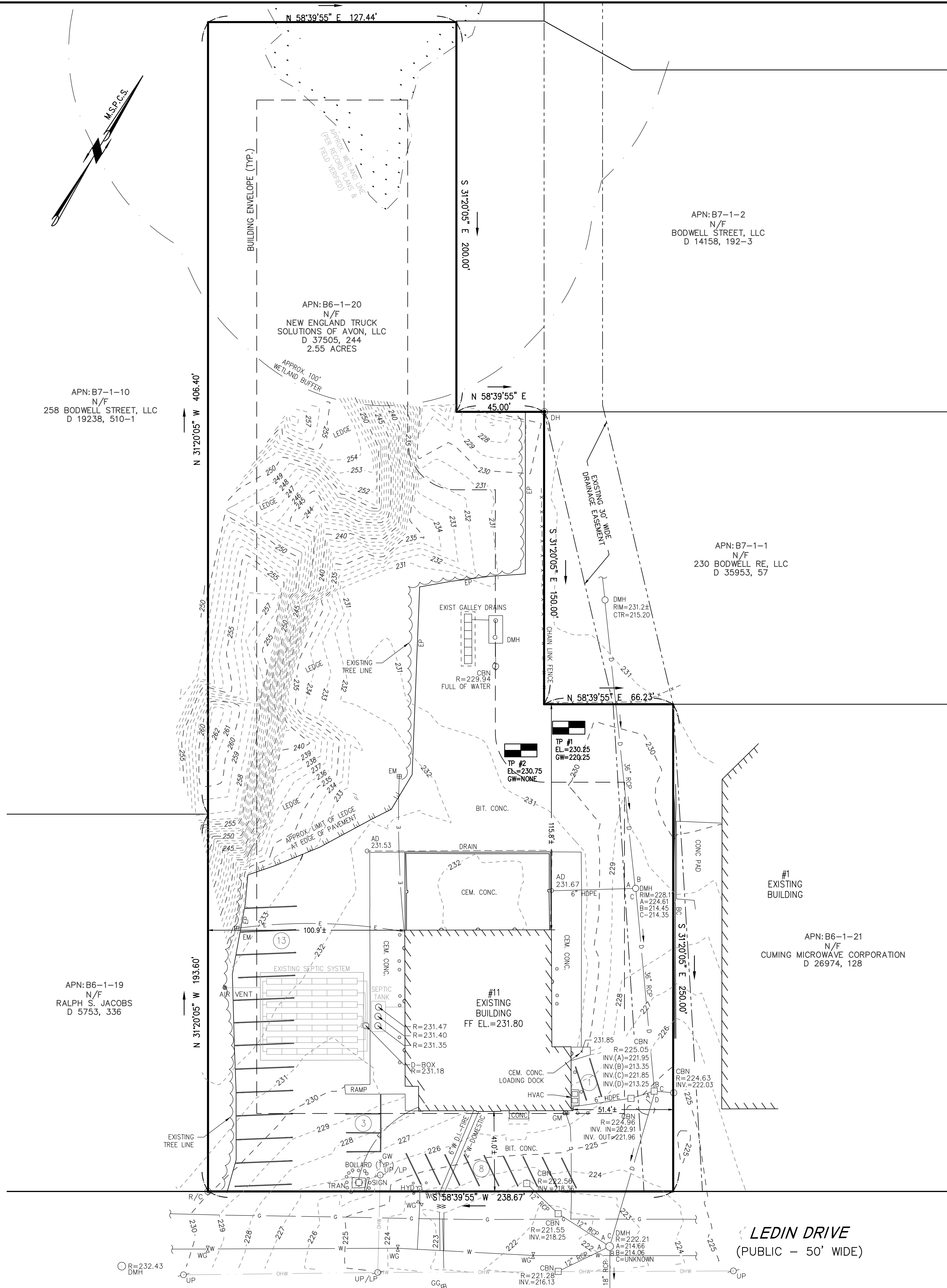


LOCUS MAP  
SCALE 1"=500'



ABBREVIATIONS

FFE	FIRST FLOOR ELEVATION
BIT CONC.	BITUMINOUS CONCRETE PAVEMENT
CCB	CAPE COD BERM
EP	EDGE OF PAVEMENT
BC	BITUMINOUS CONCRETE CURB
(AM)	AS MEASURED
RET WALL	RETAINING WALL
CONC.	CONCRETE
RCF	REINFORCED CONCRETE PIPE
VCC	VERTICAL GRANITE CURB
ETW	EDGE OF TRAVEL WAY
MTL	METAL BERM
VCC	VERTICAL CONCRETE CURB
CMP	CORRUGATED METAL PIPE

LEGEND

**SURVEY SYMBOLS**

- REBAR
- ∨ ANGLE IRON
- CB/DH □ CONCRETE BOUND WITH DRILL HOLE
- SB □ STONE BOUND
- SB/DH □ STONE BOUND

**UTILITY SYMBOLS**

- CHIMNEY
- ELECTRIC HAND HOLE
- GUY POLE
- GUY WIRE
- HVAC UNIT
- BUILDING LIGHT W/MAST
- BUILDING LIGHT TRANSFORMER
- WATER GATE
- EXHAUST VENT
- AIR VENT
- DRAINAGE SUMP
- EMH ELECTRIC MANHOLE
- SMH SEWER MANHOLE
- DMH DRAIN MANHOLE
- TMH TELEPHONE MANHOLE
- DRAINAGE CATCH BASIN
- DOOR WAY THRESHOLD
- HYDRANT
- POST INDICATOR VALVE
- UTILITY POLE
- YARD LIGHT
- RIP RAP
- BOLLARD
- SIGN
- FIRE ALARM
- DECIDUOUS TREE
- CONIFEROUS TREE

**LINE DESIGNATORS**

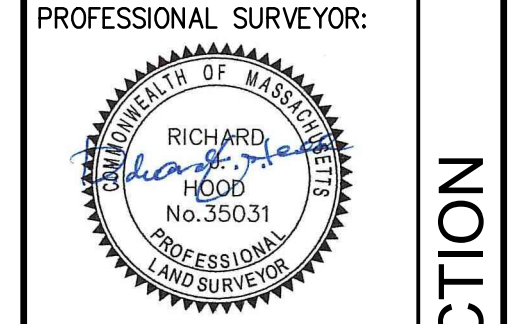
- WATER MAIN
- HANDRAIL
- JERSEY BARRIER
- GUARD RAIL
- RAILROAD TRACKS
- OHW OVERHEAD WIRES
- G GAS LINE
- WS WATER SERVICE
- UNDERGROUND ELECTRIC
- STORM DRAIN LINE
- SANITARY SEWER LINE
- DRAINAGE SWALE
- CHAIN LINK FENCE

- SURVEY NOTES:**
- LOCUS IS SHOWN AS PARCEL NUMBER B6-1-20 ON THE TOWN OF AVON ASSESSORS MAPS. DEED TO LOCUS IS RECORDED IN THE NORFOLK COUNTY REGISTRY OF DEEDS AT BOOK 37505, PAGE 244.
  - THIS SURVEY WAS MADE ON THE GROUND IN FEBRUARY OF 2022 BY MCKENZIE ENGINEERING GROUP, INC.
  - ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988. WETLAND RESOURCE AREAS SHOWN ON THIS PLAN ARE COMPILED FROM RECORD PLANS, MASSGIS, AND FIELD VERIFICATION, AND THE LOCATION SHOULD BE CONSIDERED APPROXIMATE.
  - LOCUS IS ZONED INDUSTRIAL.
  - MINIMUM SETBACK REQUIREMENTS:**  
FRONT YARD 40'  
SIDE YARD 25'  
REAR YARD 40'
  - LOCUS IS SITUATED IN ZONE X AS SHOWN ON F.I.R.M. No 25021C0218E, EFFECTIVE JULY 17, 2012. LOCUS IS LOCATED WITHIN THE TOWN OF AVON INDUSTRIAL ZONING DISTRICT. THE PROPERTY IS NOT LOCATED IN A DEP ZONE 2 OR THE TOWN OF AVON WATER SUPPLY PROTECTION DISTRICT OR FLOODPLAIN OVERLAY DISTRICT.
  - UTILITY INFORMATION FROM ABOVE GROUND OBSERVED EVIDENCE IN CONJUNCTION WITH DIG SAFE MARKINGS AND RECORD PLANS. THE LAND SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE LAND SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. BEFORE CONSTRUCTION CALL DIG SAFE SYSTEMS, INC. AT 1-888-344-7233.
  - PLAN REFERENCES: 395 OF 2003

REV	DATE	DESCRIPTION	BY	APP
1				



**PLAN OF LAND**  
(ASSESSOR'S PARCEL B6-1-20)  
11 LEDIN DRIVE  
AVON, MASSACHUSETTS

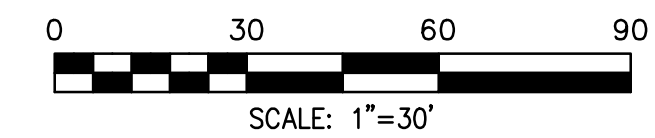


APPLICANT:  
**CONSERV GROUP, INC.**  
110 STATE ROAD  
SAGAMORE BEACH, MA 02562

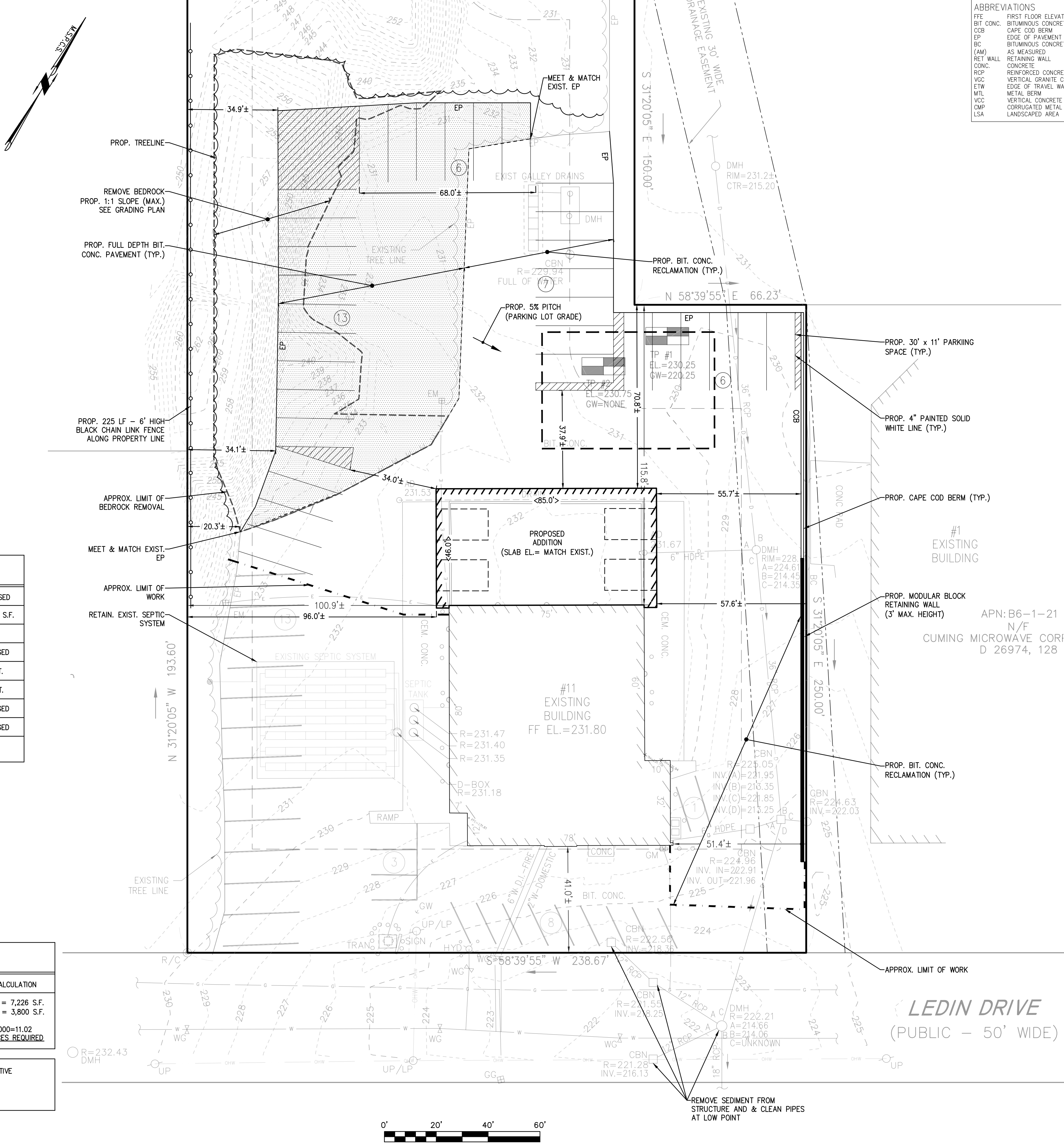
DRAWN BY:	RPL
DESIGNED BY:	RPL
CHECKED BY:	RTLS
APPROVED BY:	R&H
DATE:	MARCH 4, 2022
SCALE:	1"=30'
PROJECT NO.:	222-122
DWG. TITLE:	

**EXISTING CONDITIONS PLAN**

DWG. NO: **EX-1**







**ABBREVIATIONS**

FFE	FIRST FLOOR ELEVATION
BIT CONC.	BITUMINOUS CONCRETE PAVEMENT
CCB	CAPE COD BERM
EP	EDGE OF PAVEMENT
BC	BITUMINOUS CONCRETE CURB
(AM)	AS MEASURED
RET. WALL	RETAINING WALL
CONC.	CONCRETE
RCP	REINFORCED CONCRETE PIPE
VCC	VERTICAL GRANITE CURB
ETW	EDGE OF TRAVEL WAY
MFL	METAL BEAM
VCC	VERTICAL CONCRETE CURB
CMP	CORRUGATED METAL PIPE
LSA	LANDSCAPED AREA

**LEGEND**

**SURVEY SYMBOLS**

- REBAR
- ANGLE IRON
- CONCRETE BOUND WITH DRILL HOLE
- STONE BOUND
- STONE BOUND

**UTILITY SYMBOLS**

- CHIMNEY
- ELECTRIC HAND HOLE
- GUY POLE
- GUY WIRE
- HVAC UNIT
- BUILDING LIGHT W/MAST
- BUILDING LIGHT TRANSFORMER
- WATER GATE
- EXHAUST VENT
- AIR VENT
- DRAINAGE SUMP
- ELECTRIC MANHOLE
- SEWER MANHOLE
- DMH
- DMH
- DMH
- TELEPHONE MANHOLE
- DRAINAGE CATCH BASIN
- DOOR WAY THRESHOLD
- HYDRANT
- POST INDICATOR VALVE
- UTILITY POLE
- YARD LIGHT
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- DECIDUOUS TREE
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**LINE DESIGNATORS**

- WATER MAIN
- HANDRAIL
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- STORM DRAIN LINE
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- DRAINAGE SWALE
- CHAIN LINK FENCE

**LAND USAGE TABLES**

ARTICLE VI - DIMENSIONAL AND DENSITY REGULATIONS

§255-6.4 DIMENSIONAL AND DENSITY REGULATIONS TABLE

ZONING DISTRICT: INDUSTRIAL	REQUIRED	EXISTING	PROPOSED
MIN. LOT SIZE	40,000 S.F.	111,021 S.F.	111,021 S.F.
MIN. LOT AREA PER UNIT	-	-	-
MIN. LOT FRONTAGE	200 FT.	238.67 FT.	UNCHANGED
MIN. FRONT YARD	40 FT.	41.0 FT.	41.0 FT.
MIN. REAR YARD	40 FT.	115.8 FT.	70.8 FT.
MIN. SIDE YARD	25 FT.	51.4 FT.	UNCHANGED
MAX. BUILDING HEIGHT	40 FT.	30± FT.	UNCHANGED
MAX. PERCENTAGE OF LOT COVERAGE BY STRUCTURE	60%	6.5%	10.0%

a) EXCEPT 60 FEET WHEN ABUTTING OR ACROSS THE STREET FROM A RESIDENTIAL ZONE.

**OFF-STREET PARKING**

ARTICLE VIII - OFF STREET PARKING & LOADING REGULATIONS

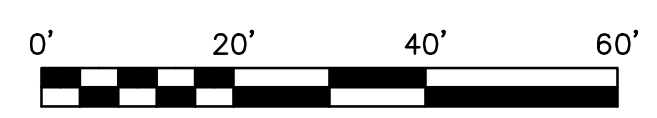
§255-8.6 TABLE OF OFF-STREET PARKING REGULATIONS

USE	PARKING SPACES REQUIRED	PARKING CALCULATION
NEW AND USED CAR SALES AND AUTOMOTIVE SERVICE ESTABLISHMENTS UTILIZING EXTENSIVE DISPLAY AREAS, EITHER INDOOR OR OUTDOOR, WHICH ARE UNUSUALLY EXTENSIVE IN RELATION TO CUSTOMER TRAFFIC	1 PER 1,000 S.F.	EXIST. BUILDING = 7,226 S.F. PROP. ADDITION = 3,800 S.F. 11,026/1,000=11.02 OR 12 SPACES REQUIRED.

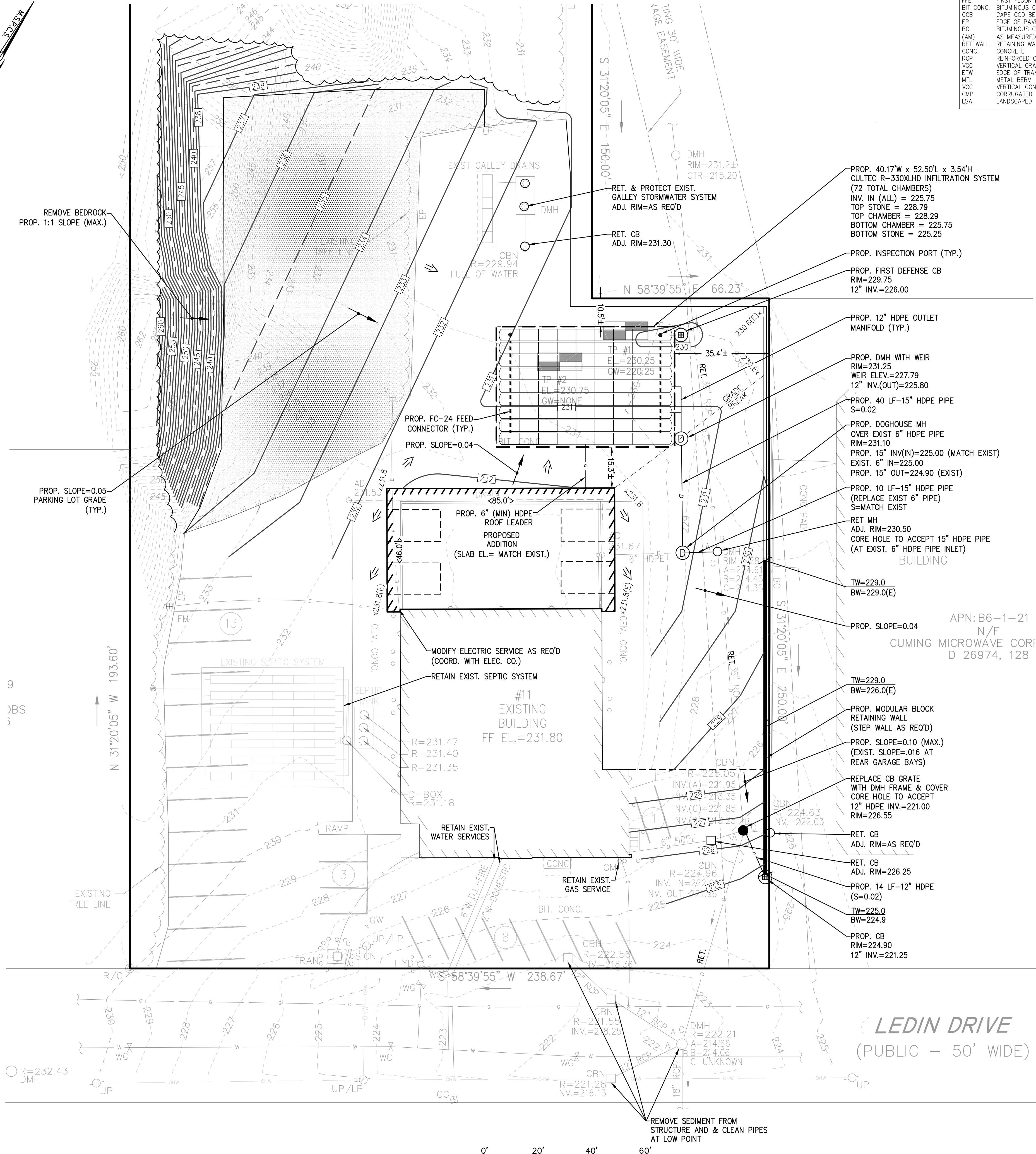
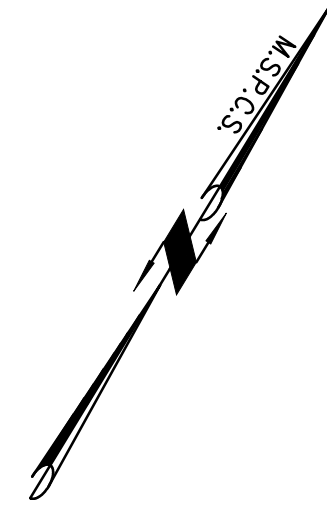
THE EXISTING 25 PARKING SPACES ON THE SITE EXCEED THE ZONING REQUIREMENTS FOR AUTOMOTIVE SERVICE ESTABLISHMENTS.

AN ADDITIONAL 32 PARKING SPACES ARE PROPOSED FOR TRUCK STORAGE PURPOSES.

BY	APP								
DESCRIPTION									
DATE									
REV									
PREPARED BY:									
<b>SITE DEVELOPMENT PLAN</b> (ASSESSOR PARCEL NO. B6-1-20) <b>11 LEDIN DRIVE</b> AVON, MASSACHUSETTS									
PROFESSIONAL ENGINEER:									
APPLICANT:									
CONSERV GROUP, INC. 110 STATE ROAD SAGAMORE BEACH, MA 02562									
PERMITTING SET									
DRAWN BY: AJC									
DESIGNED BY: AJC									
CHECKED BY: BCM									
APPROVED BY: BCM									
DATE: JUNE 28, 2022									
SCALE: 1" = 20'									
PROJECT NO.: 222-121									
DWG. TITLE:									
<div style="text-align: center;"> <b>SITE PLAN</b> </div>									
DWG. NO. <b>C-1</b>									







**ABBREVIATIONS**

FFE	FIRST FLOOR ELEVATION
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EP	EDGE OF PAVEMENT
BC	BITUMINOUS CONCRETE CURB
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**LEGEND**

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- STORM DRAIN LINE
- SANITARY SEWER LINE
- DRAINAGE SWALE
- CHAIN LINK FENCE

**DRAINAGE NOTES**

1. ALL EXISTING DRAINAGE INFRASTRUCTURE ON-SITE SHALL BE RETAINED UNLESS OTHERWISE NOTED.
2. ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY EARTH MOVING ACTIVITIES.
3. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES, ADDITIONAL SILTATION FENCING AND FILTER FABRIC FOR INSTALLATION AS DIRECTED BY THE TOWN TO MITIGATE ANY EMERGENCY CONDITIONS.
4. UPON COMPLETION OF ALL SITE WORK THE CONTRACTOR SHALL INSPECT ALL ON-SITE AND OFF-SITE CATCH BASINS (THAT RECEIVED CATCH BASIN PROTECTION) AND DRAINAGE MANHOLES AND REMOVE ALL SEDIMENT AND DEBRIS THAT HAS ACCUMULATED DURING THE COURSE OF CONSTRUCTION.
5. UNSUITABLE SOILS LOCATED WITHIN THE LIMITS OF THE SUBSURFACE INFILTRATION SYSTEMS SHALL BE REMOVED PRIOR TO INSTALLATION OF THE SYSTEM. THE BOTTOM OF EXCAVATION SHALL BE INSPECTED BY THE PROJECT ENGINEER PRIOR TO THE PLACEMENT OF THE SUBSURFACE CHAMBERS.

**UTILITY NOTES**

1. THESE PLANS HAVE BEEN PREPARED FOR A PROPOSED BUILDING ADDITION AND PARKING LOT EXPANSION. ALL EXISTING UTILITY SERVICES ARE TO BE RETAINED. REFER TO ARCHITECTURAL PLANS FOR INTERNAL UTILITY SERVICES.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK.
4. THE CONTRACTOR SHALL COORDINATE ALL STREET WORK WITH THE TOWN OF AVON DPW.
5. ALL WATER SERVICES (FIRE & DOMESTIC) AND APPURTENANCES ARE PROPOSED TO BE RETAINED. IF WORKS IS REQUIRED TO UPDATED EXISTING WATER SERVICES (FIRE & DOMESTIC) THE METHODS OF INSTALLATION SHALL MEET OR EXCEED ALL LOCAL MUNICIPAL REQUIREMENTS.
6. THE EXISTING SEPTIC SYSTEM ON-SITE IS PROPOSED TO BE RETAINED.
7. THE LOCATIONS OF PROPOSED ELECTRIC, TELEPHONE AND COMMUNICATION (E.T.C.) SERVICES ARE SHOWN PER RECORD DOCUMENTS AND FIELD VERIFICATION. ALL SERVICES ARE TO BE RETAINED. IF CHANGES OCCUR DURING CONSTRUCTION CHANGES SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANIES.
8. THE PROPOSED GAS SERVICE LOCATIONS ARE SHOWN PER RECORD DOCUMENTS AND FIELD VERIFICATION AND ARE TO BE RETAINED. IF CHANGES OCCUR DURING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE THE GAS SERVICE INSTALLATION WITH THE MUNICIPAL GAS COMPANY.
9. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH TOWN OF AVON DEPARTMENT OF PUBLIC WORKS.

BY	APP
DESCRIPTION	
DATE	
REV	

PREPARED BY:

MCKENZIE ENGINEERING GROUP  
Assinippi Office Park  
150 Longwater Drive, Suite 101  
Norwell, MA 02061  
P: 781.792.3900  
F: 781.792.0333  
www.mckeng.com

**SITE DEVELOPMENT PLAN**  
(ASSESSOR PARCEL NO. B6-1-20)  
**11 LEDIN DRIVE**  
AVON, MASSACHUSETTS

PROFESSIONAL ENGINEER:

APPLICANT:  
**CONSERV GROUP, INC.**  
110 STATE ROAD  
SAGAMORE BEACH, MA 02562

PERMITTING SET

DRAWN BY:	AJC
DESIGNED BY:	AJC
CHECKED BY:	BCM
APPROVED BY:	BCM
DATE:	JUNE 28, 2022
SCALE:	1" = 20'
PROJECT NO.:	222-122
DWG. TITLE:	

**GRADING & UTILITY PLAN**

DWG. NO. **C-2**









**CONSTRUCTION PHASE BMP OPERATION AND MAINTENANCE NOTES:**

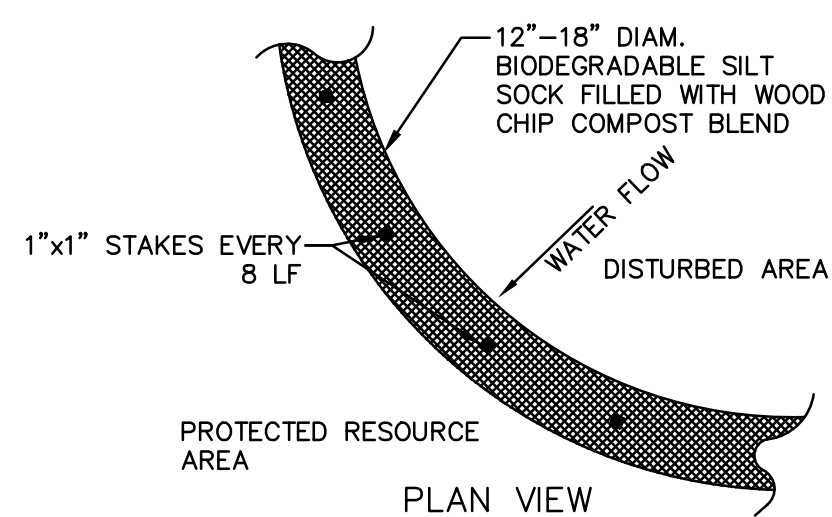
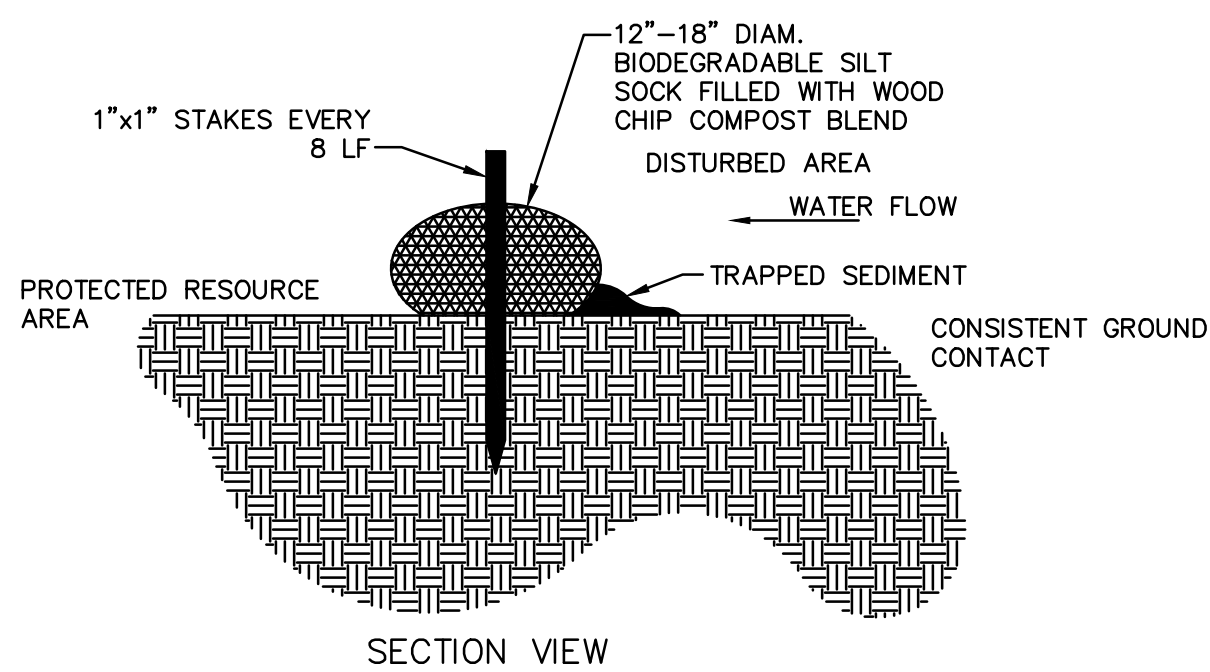
- STRUCTURAL PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE SILT SOCK EROSION CONTROL BARRIERS, STABILIZED CONSTRUCTION ENTRANCES, CONCRETE WASH STATIONS, STOCKPILE AREAS, AND INLET PROTECTION.
- STABILIZATION PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE TEMPORARY SEEDING, GEOTEXTILES (JUTE MESH), MULCHING, AND PERMANENT SEEDING.
- OPERATOR PERSONNEL AND/OR ITS CONSULTANTS MUST INSPECT THE CONSTRUCTION SITE AT LEAST ONCE EVERY 7 CALENDAR DAYS OR EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT 1/4 INCH OR GREATER. THE INSPECTOR SHOULD REVIEW THE EROSION AND SEDIMENT CONTROLS WITH RESPECT TO THE FOLLOWING:
  - WHETHER OR NOT THE BMP WAS INSTALLED/PERFORMED CORRECTLY.
  - WHETHER OR NOT THERE HAS BEEN DAMAGE TO THE BMP SINCE IT WAS INSTALLED OR PERFORMED.
  - WHAT SHOULD BE DONE TO CORRECT ANY PROBLEMS WITH THE BMP.
- THE INSPECTOR SHALL COMPLETE THE INSPECTION SCHEDULE AND EVALUATION CHECKLIST FOR FINDINGS AND SHOULD REQUEST THE REQUIRED MAINTENANCE OR REPAIR.
- ALL SLOPES EXCEEDING 15% RESULTING FROM SITE GRADING SHALL BE BOTH COVERED WITH FOUR INCHES OF TOPSOIL AND PLANTED WITH A VEGETATED COVER SUFFICIENT TO PREVENT EROSION.

**CONSTRUCTION SEQUENCE**

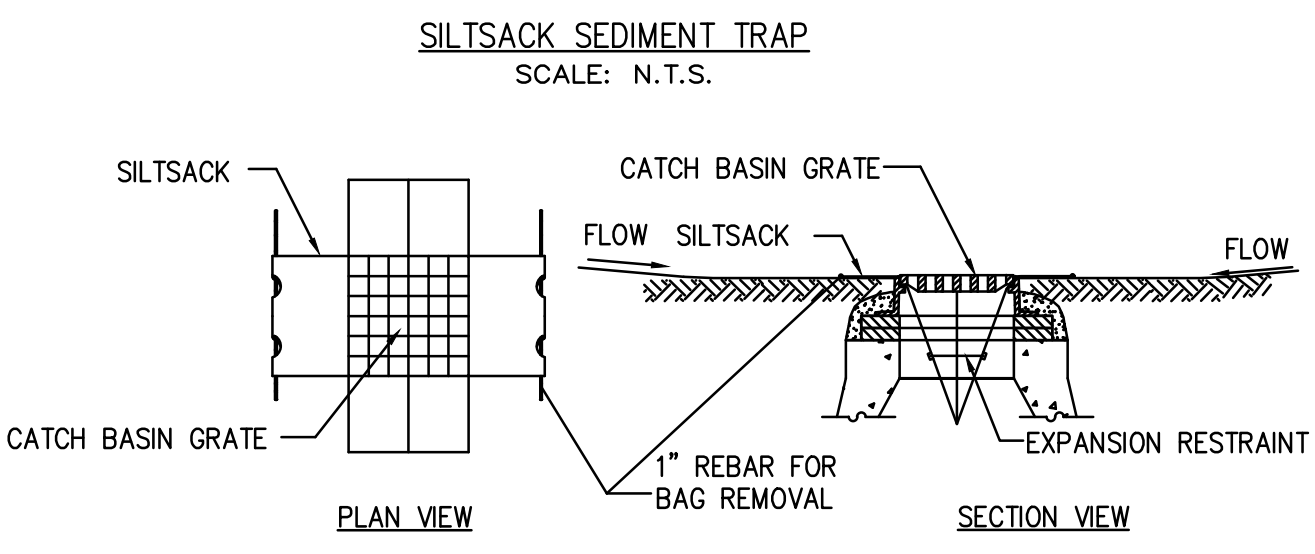
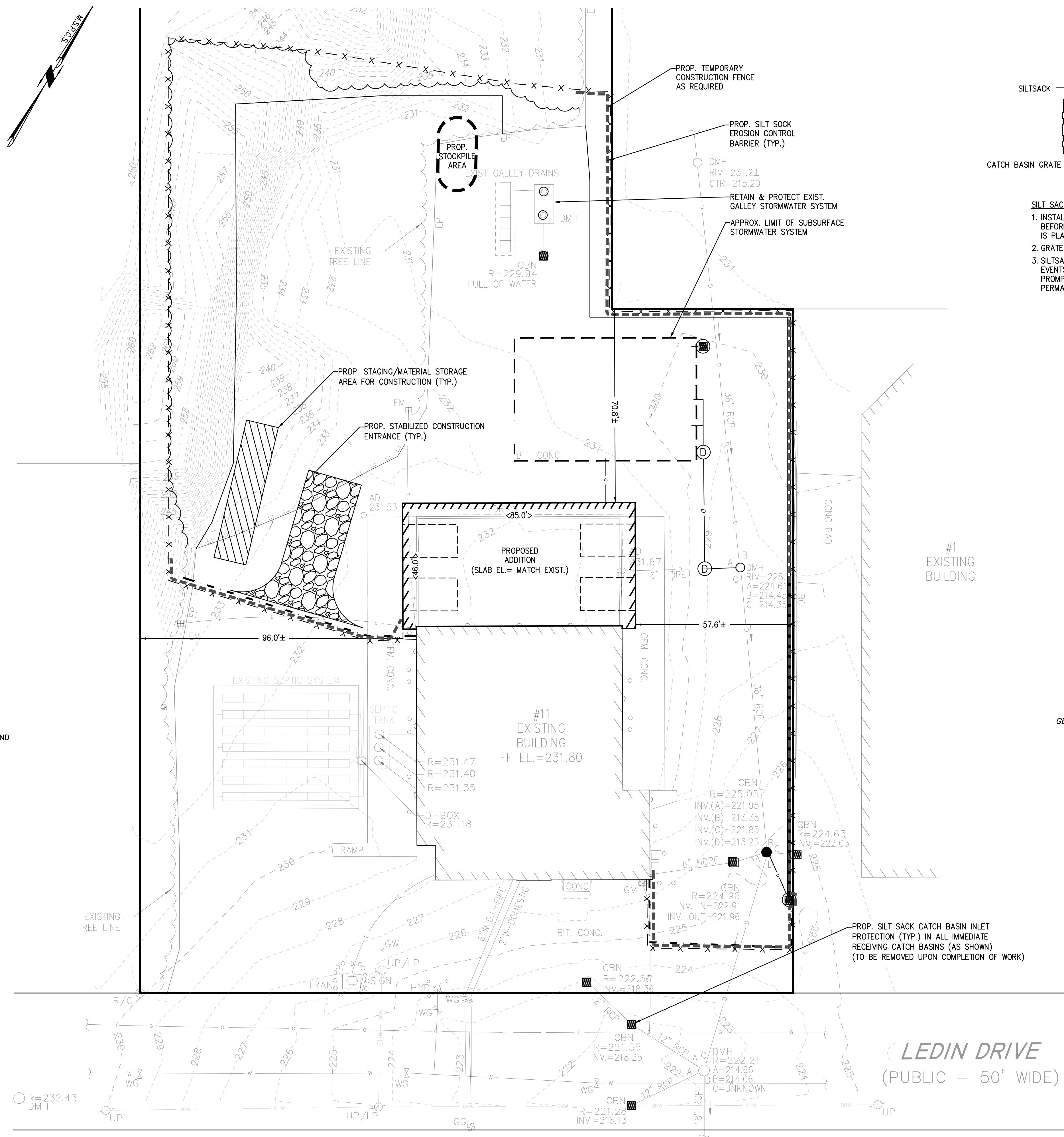
TO PREVENT EXCESSIVE EROSION AND SILTING, THE FOLLOWING CONSTRUCTION SEQUENCE COUPLED WITH OTHER WIDELY ACCEPTED PRINCIPALS FOR REDUCING EROSION AND SEDIMENTATION SHALL BE IMPLEMENTED IN THE DEVELOPMENT OF THE SITE.

- THE CONTRACTOR SHALL COORDINATE A PRE-CONSTRUCTION MEETING PRIOR TO ANY CONSTRUCTION ACTIVITY.
- STABILIZATION PRACTICES FOR EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. REFER TO "EROSION AND SEDIMENTATION CONTROL" SECTION OF THIS PLAN & PLACE SILTATION FENCE ON THE SITE PLANS.
- CLEAR AND GRUB UP AS REQUIRED FOR THE CONSTRUCTION OF THE ROADWAY, PARKING AREAS AND RELATED INFRASTRUCTURE.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
- EXCAVATE TOPSOIL AND SUBSOIL FROM CUT AND FILL AREAS AND STOCKPILE ON SITE IN LOCATIONS SHOWN ON THE PLAN. CONSIDERATION SHOULD BE GIVEN TO LOCATING STOCKPILES ON THE UPHILL SIDE OF DISTURBED AREAS, WHERE POSSIBLE, TO ACT AS TEMPORARY DIVERSIONS.
- CONSTRUCT CUT AND FILL AREAS, INSTALLING HAYBALE CHECK DAMS AT TOES OF ALL 3:1 OR GREATER SLOPES, AND AT ENDS OF ALL CUT AREAS. ALL FILL WILL BE INSTALLED USING 12" MAXIMUM COMPACTION LIFTS. PLACE ALL SLOPE PROTECTION WHERE INDICATED ON THE PLAN. THE SUBSURFACE INFILTRATION SYSTEM SHALL BE CONSTRUCTED IMMEDIATELY AFTER THE ROADWAY ROUGH GRADING IS COMPLETED AND THE AREA HAS BEEN CLEARED OF VEGETATION.
- INSTALL CLOSED DRAINAGE SYSTEM AND OTHER UTILITIES. ALL CATCH BASINS SHALL BE COVERED WITH SILTSACK OR EQUIVALENT INLET PROTECTION.
- GRADE ROADWAY TO SUBGRADE ELEVATION AND CONSTRUCT SIDE SLOPES. APPLY TEMPORARY STABILIZATION MEASURES WHERE WARRANTED. REFER TO "EROSION AND SEDIMENTATION CONTROL" SECTION OF THIS PLAN.
- EXCAVATE AND CONSTRUCT BUILDING FOUNDATIONS.
- PLACE GRAVEL SUBBASE.
- PLACE THE BITUMINOUS CONCRETE BINDER COURSE ON ROADWAY AND PARKING AREAS.
- CONSTRUCT BUILDING STRUCTURES AND ASSOCIATED UTILITY CONNECTIONS.
- GRADE SLOPES AND STABILIZE CUT AREAS AT TOE OF SLOPES. BLEND ALL SLOPES INTO EXISTING TOPOGRAPHY AND LOAM AND SEED ALL DISTURBED AREAS. SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH JUTE MESH.
- PLACE THE FINAL WEARING COURSE OF PAVEMENT.
- COMPLETE FINE GRADING OF SHOULDERS AND PLACE PAVEMENT IN MISCELLANEOUS AREAS.
- REMOVE TEMPORARY EROSION CONTROL DEVICES ONCE ADEQUATE GROWTH IS ESTABLISHED. ADEQUATE GROWTH IS DEFINED AS VEGETATION COVERING 75% OR MORE OF THE GROUND SURFACE.

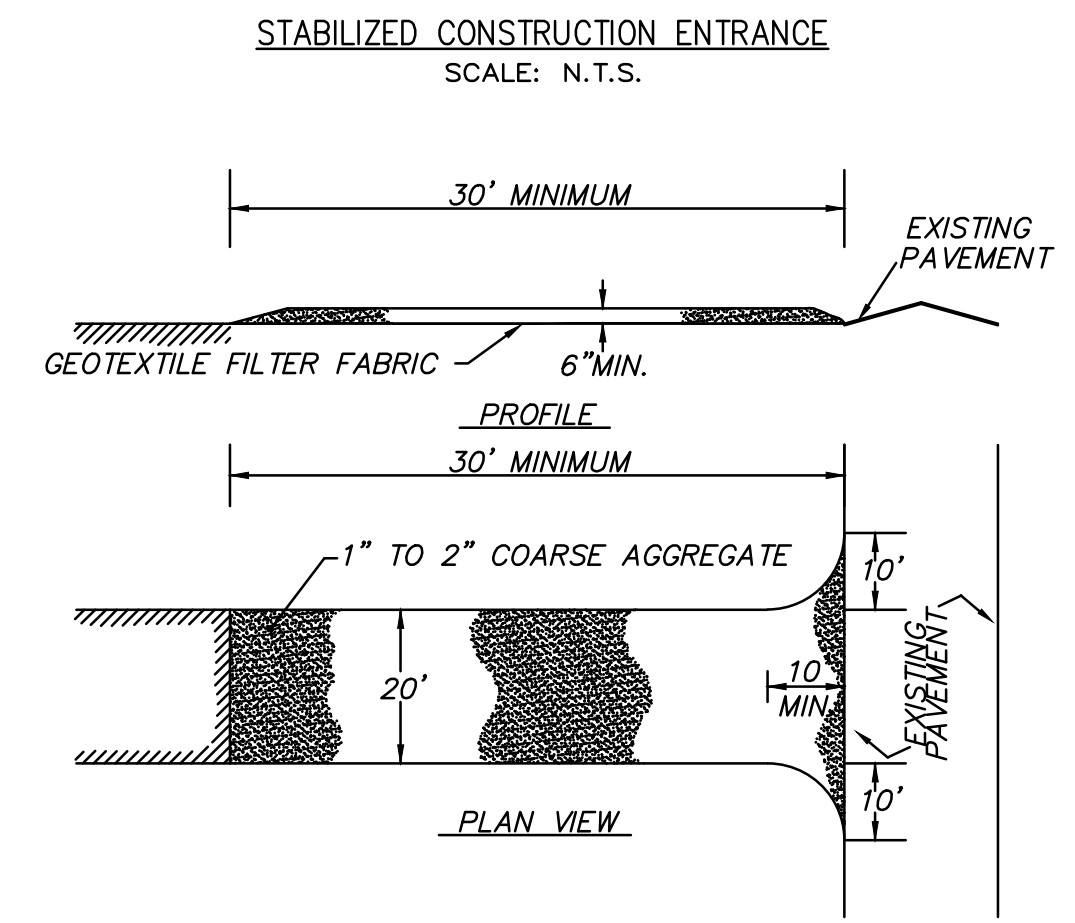
**SILT SOCK DETAIL**  
SCALE: N.T.S.



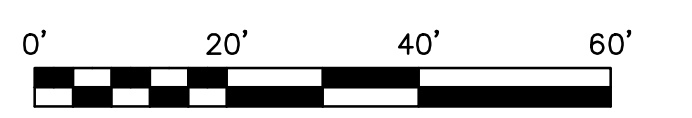
- CONSTRUCTION NOTES:**
- SILT SOCKS SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING OR LAPPING THE ADJACENT SECTIONS.
  - SILT SOCKS SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN EVERY 8 LF.
  - INSPECTION SHALL BE FREQUENT, AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS REQUIRED.
  - SILT SOCKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.



- SILT SACK SEDIMENT TRAP CONSTRUCTION NOTES:**
- INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
  - GRATE TO BE PLACED OVER SILTSACK.
  - SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.



- CONSTRUCTION SPECIFICATIONS:**
- STONE FOR A STABILIZATION CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
  - THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET.
  - THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
  - THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN 20 FEET OR GREATER THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS.
  - GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
  - ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
  - THE 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, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.



BY	APP	DESCRIPTION	DATE	REV

PREPARED BY:  
  
 MCKENZIE ENGINEERING GROUP  
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 150 Longwater Drive, Suite 101  
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 P: 781.792.3900  
 F: 781.792.0333  
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**SITE DEVELOPMENT PLAN**  
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 11 LEDIN DRIVE  
 AVON, MASSACHUSETTS

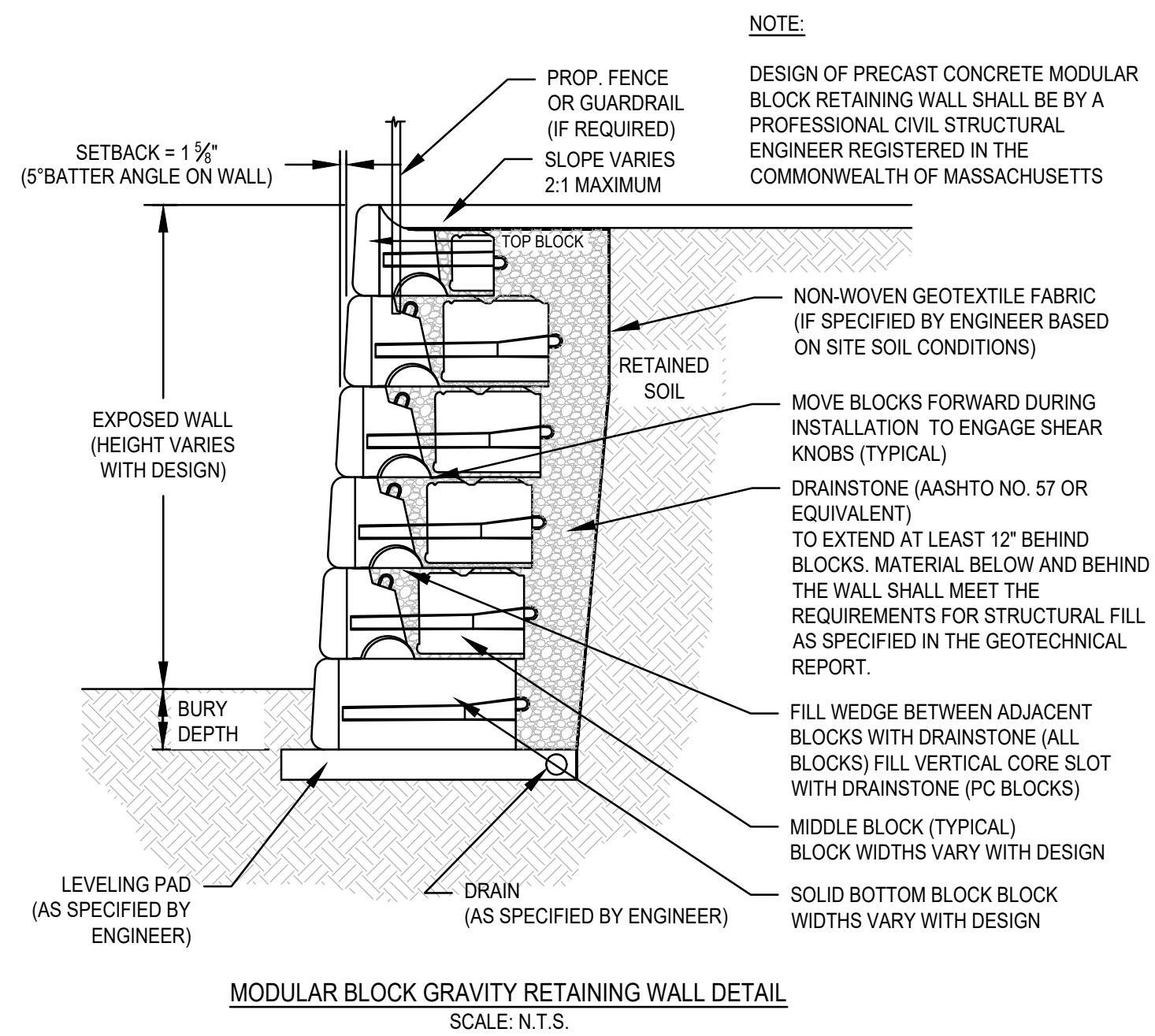
PROFESSIONAL ENGINEER:  
  
 BRADLEY C. MCKENZIE  
 No. 39917  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF MASSACHUSETTS

APPLICANT:  
 CONSERV GROUP, INC.  
 110 STATE ROAD  
 SAGAMORE BEACH, MA 02562

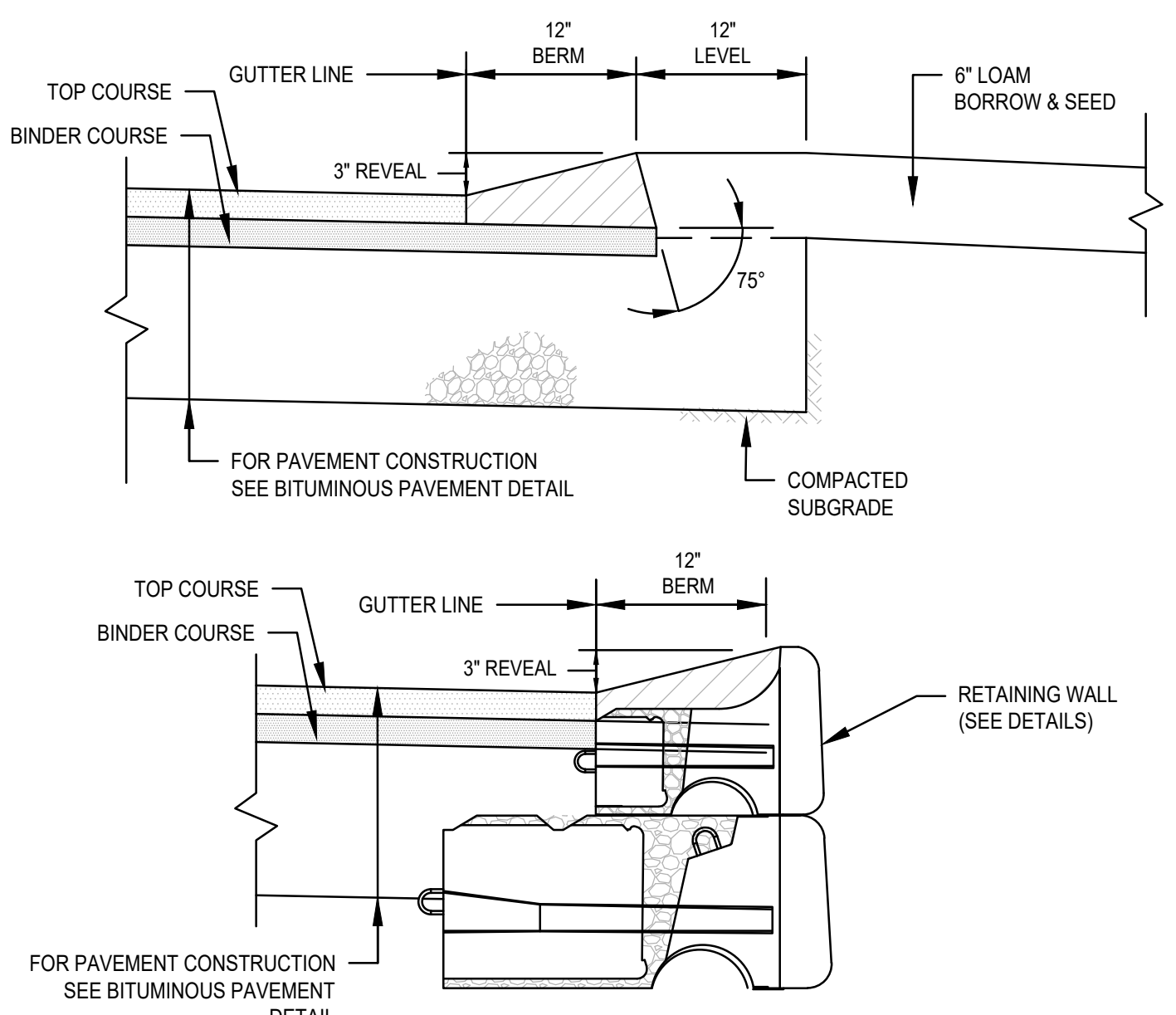
PERMITTING SET

DRAWN BY:	AJC
DESIGNED BY:	AJC
CHECKED BY:	BCM
APPROVED BY:	BCM
DATE:	JUNE 28, 2022
SCALE:	1" = 20'
PROJECT NO.:	222-120
DWG. TITLE:	EROSION & SEDIMENT CONTROL PLAN

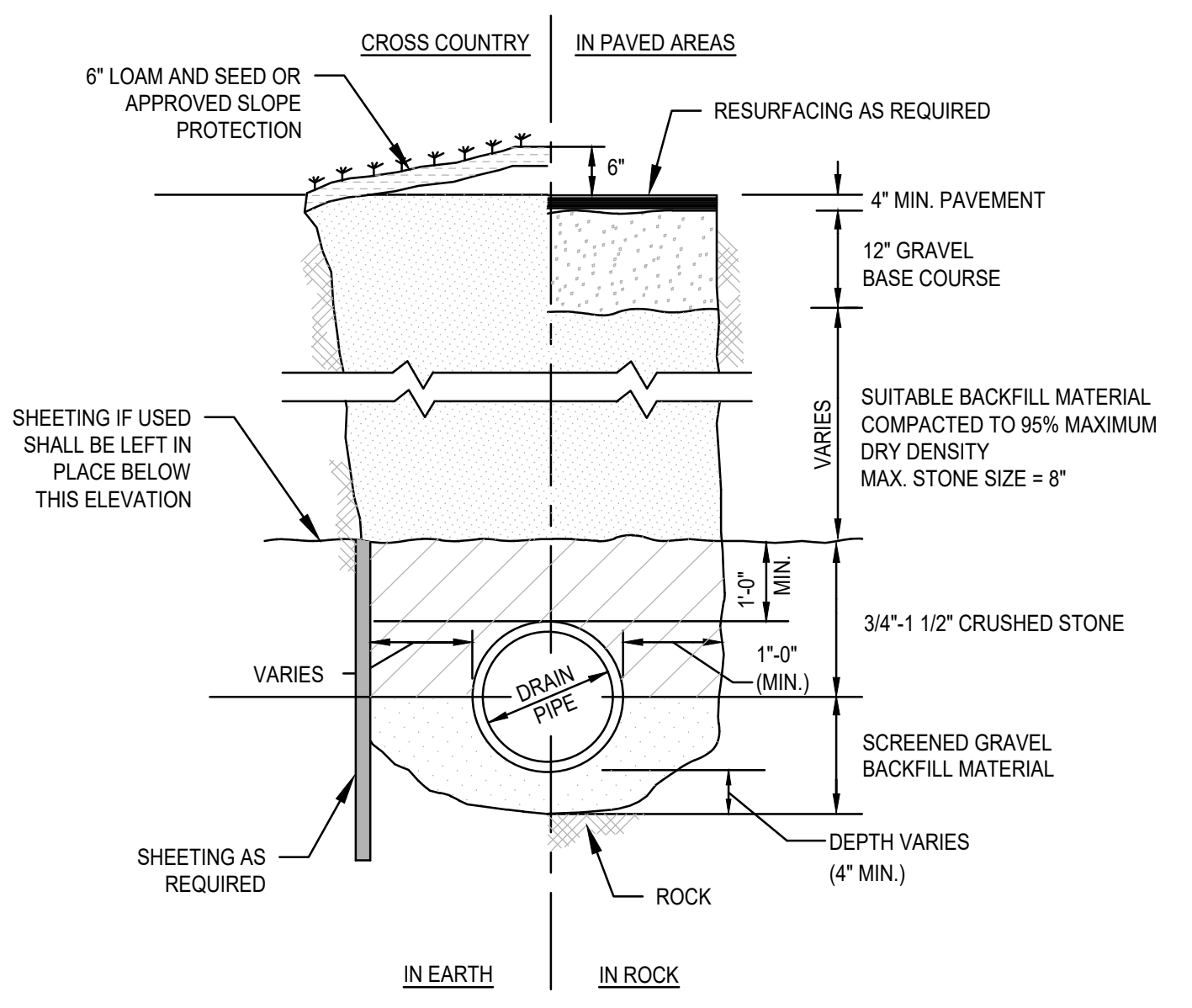




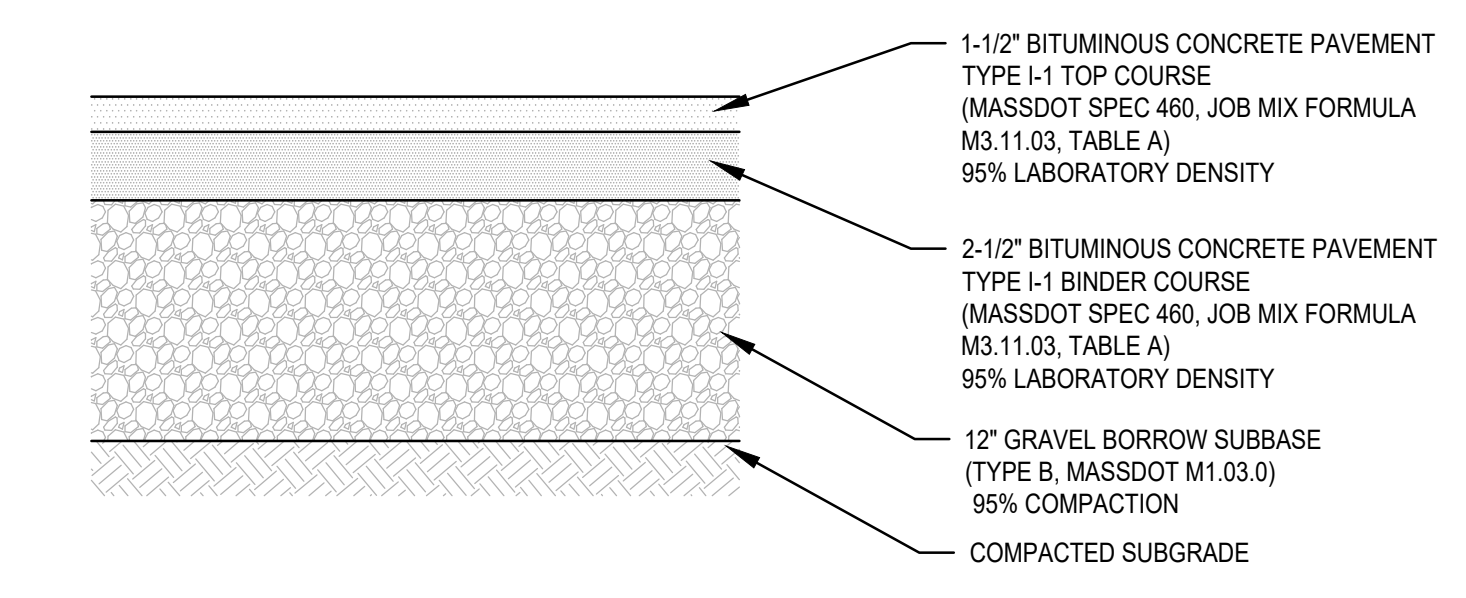
MODULAR BLOCK GRAVITY RETAINING WALL DETAIL  
SCALE: N.T.S.



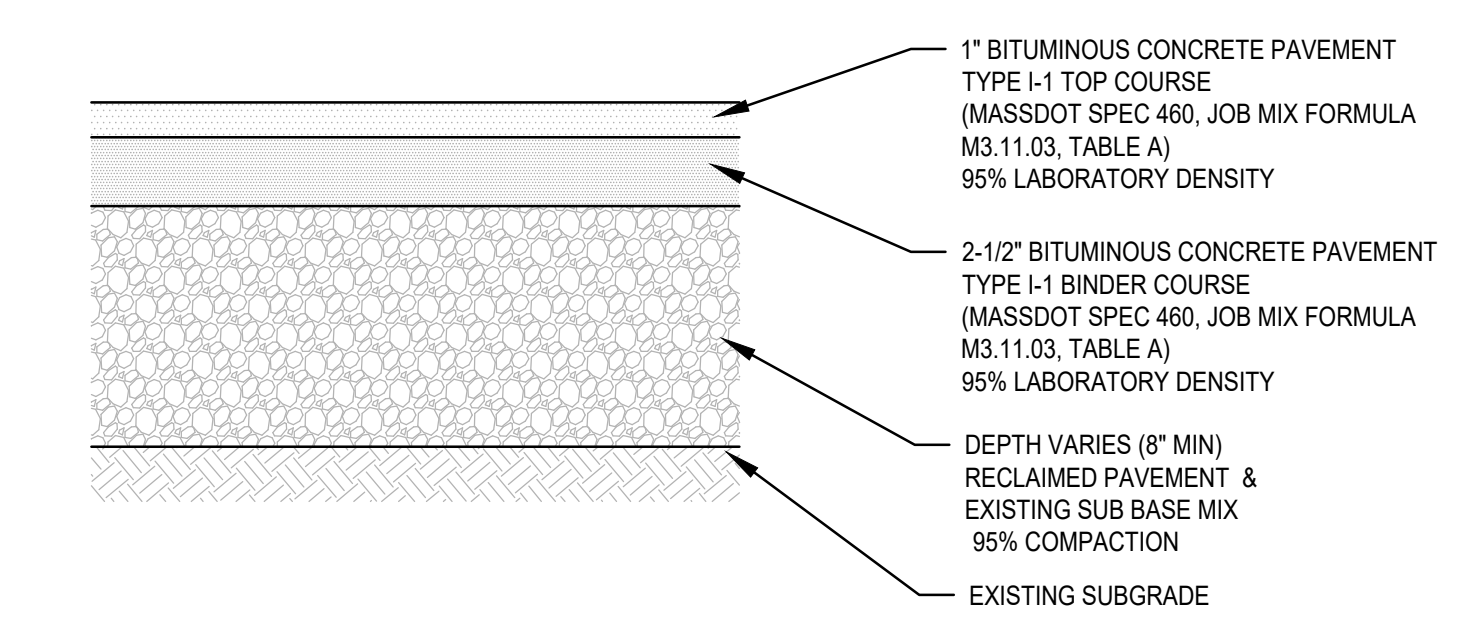
MONOLITHIC BITUMINOUS CONCRETE BERM (CAPE COD BERM) DETAIL  
SCALE: N.T.S.



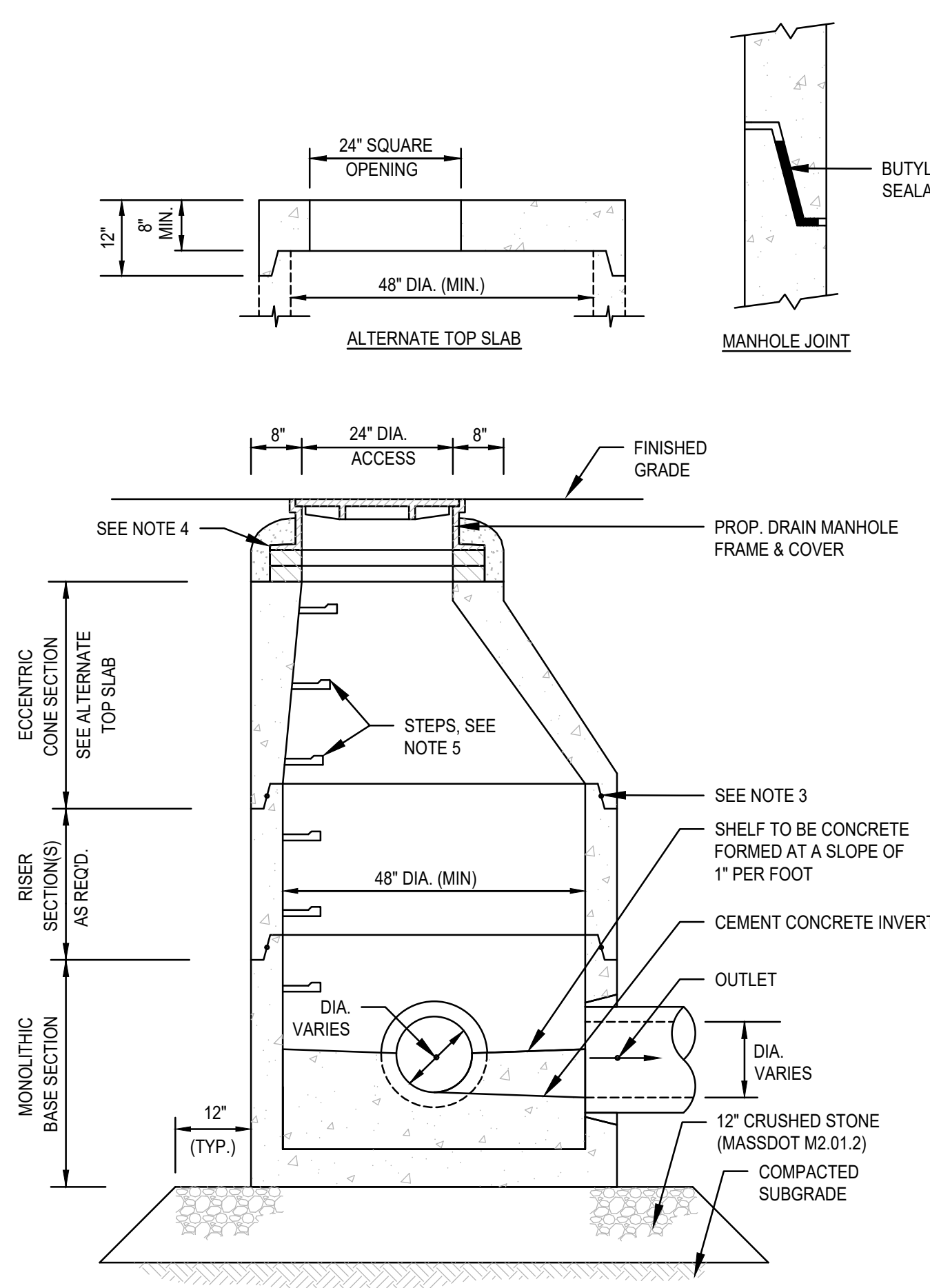
TYPICAL DRAIN TRENCH DETAIL  
SCALE: N.T.S.



FULL DEPTH BITUMINOUS CONCRETE PAVEMENT DETAIL  
SCALE: N.T.S.

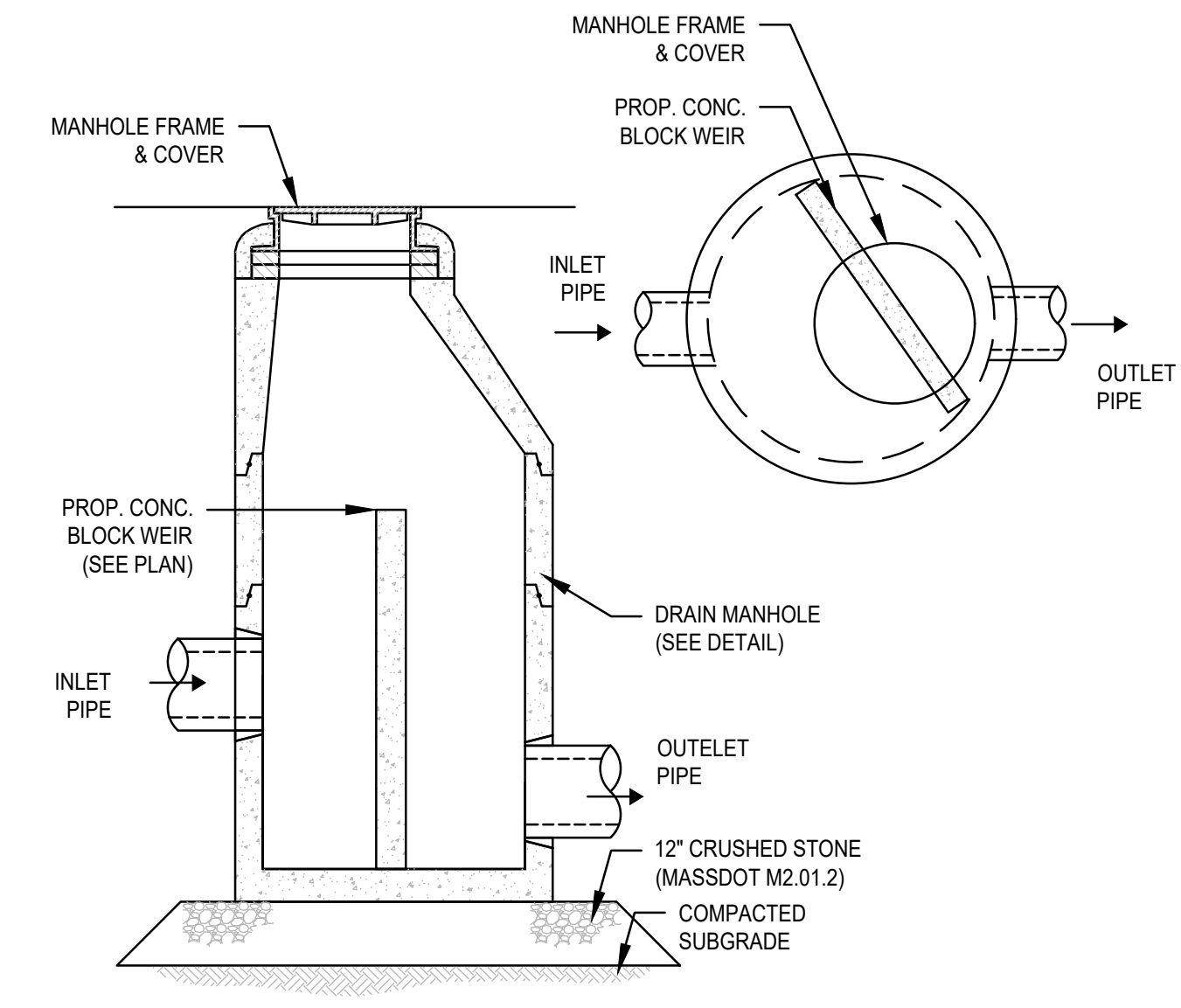


BITUMINOUS CONCRETE PAVEMENT RECLAMATION DETAIL  
SCALE: N.T.S.

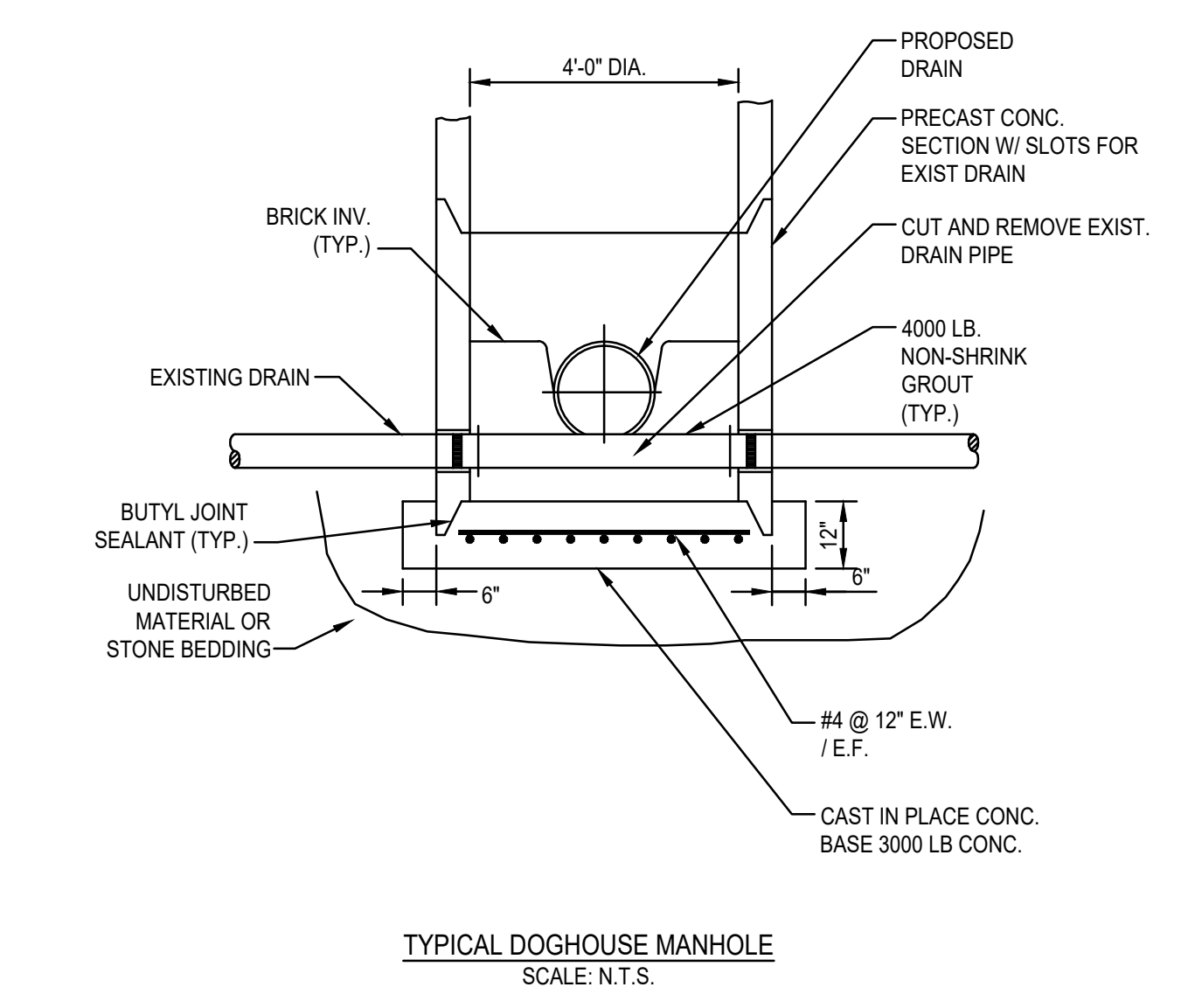


DRAIN MANHOLE DETAIL  
SCALE: N.T.S.

- NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
  2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
  3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PERFORMED BUTYL RUBBER.
  4. DRAIN 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).
  5. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.



DRAINAGE MANHOLE WITH WEIR  
SCALE: N.T.S.



TYPICAL DOGHOUSE MANHOLE  
SCALE: N.T.S.

PLAN VIEW

**FRAME AND GRATE**  
PROP. EAST JORDAN IRON WORKS CATCH BASIN FRAME & GRATE  
PRODUCT NO. 0M45200028 (3 FLANGE) OR 0M45200029 (4 FLANGE) (OR EQUAL)

**COMMENTS:**  
1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.  
2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.  
3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

**GENERAL NOTES:**  
1. GENERAL ARRANGEMENT DRAWINGS ONLY. CONTACT HYDRO INTERNATIONAL FOR SITE SPECIFIC DRAWINGS.  
2. THE DIAMETER OF THE INLET AND OUTLET PIPES MAY BE NO MORE THAN 24".  
3. MULTIPLE INLET PIPES POSSIBLE (REFER TO PROJECT PLAN).  
4. INLET/OUTLET PIPE ANGLE CAN VARY TO ALIGN WITH DRAINAGE NETWORK (REFER TO PROJECT PLAN).  
5. PEAK FLOW RATE AND MINIMUM HEIGHT LIMITED BY AVAILABLE COVER AND PIPE DIAMETER.  
6. LARGER SEDIMENT STORAGE CAPACITY MAY BE PROVIDED WITH A DEEPER SUMP DEPTH.

**GENERAL NOTES:**  
1. ANY WARRANTY GIVEN BY HYDRO INTERNATIONAL WILL APPLY ONLY TO THOSE ITEMS SUPPLIED BY IT. ACCORDINGLY HYDRO INTERNATIONAL CANNOT ACCEPT ANY RESPONSIBILITY FOR ANY STRUCTURE, PLANT, OR EQUIPMENT, OR THE PERFORMANCE THERE OF DESIGNED, BUILT, MANUFACTURED, OR SUPPLIED BY ANY OTHER PARTY. HYDRO INTERNATIONAL HOLDS A POLICY OF CONTINUOUS DEVELOPMENT AND RESERVE THE RIGHT TO AMEND THE SPECIFICATION, HYDRO INTERNATIONAL CANNOT ACCEPT LIABILITY FOR PERFORMANCE OF ITS EQUIPMENT, OR ANY PART THEREOF, IF THE EQUIPMENT IS SUBJECT TO CONDITIONS OUTSIDE ANY DESIGN SPECIFICATION. HYDRO INTERNATIONAL OWNS THE COPYRIGHT OF THIS DRAWING, WHICH IS SUPPLIED IN CONFIDENCE. IT MUST NOT BE REPRODUCED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF HYDRO INTERNATIONAL.

SECTION A-A

PARTS LIST			
ITEM	QTY	SIZE (in)	DESCRIPTION
1	1	48	1/2 PRECAST MANHOLE (PRE-INSTALLED)
2	1		INTERNAL COMPONENTS
3	1	24	FRAME AND GRATE
4	1	8	OUTLET PIPE (BY OTHERS)

**Hydro International**

DATE: \_\_\_\_\_ DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

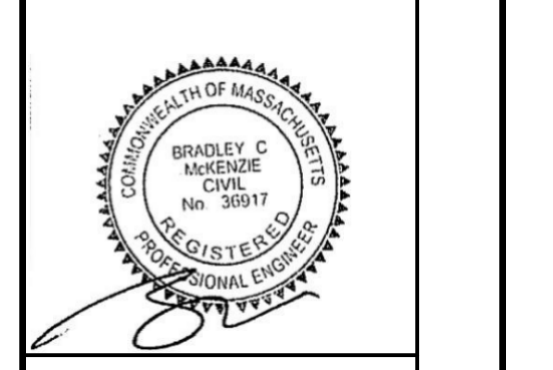
REV	DATE	DESCRIPTION

BY APP: \_\_\_\_\_

DATE: \_\_\_\_\_

PREPARED BY: \_\_\_\_\_

**SITE DEVELOPMENT PLAN**  
 (ASSESSOR PARCEL NO. B6-1-20)  
 11 LEDIN DRIVE  
 AVON, MASSACHUSETTS



APPLICANT: **CONSERV GROUP, INC.**  
 110 STATE ROAD  
 SAGAMORE BEACH, MA 02562

**PERMITTING SET**

DRAWN BY: A.J.C.  
 DESIGNED BY: A.J.C.  
 CHECKED BY: BCM  
 APPROVED BY: BCM

DATE: JUNE 28, 2022  
 SCALE: AS NOTED  
 PROJECT NO.: 222-122  
 DWG. TITLE: CONSTRUCTION DETAILS

DWG. NO.: **D-1**



