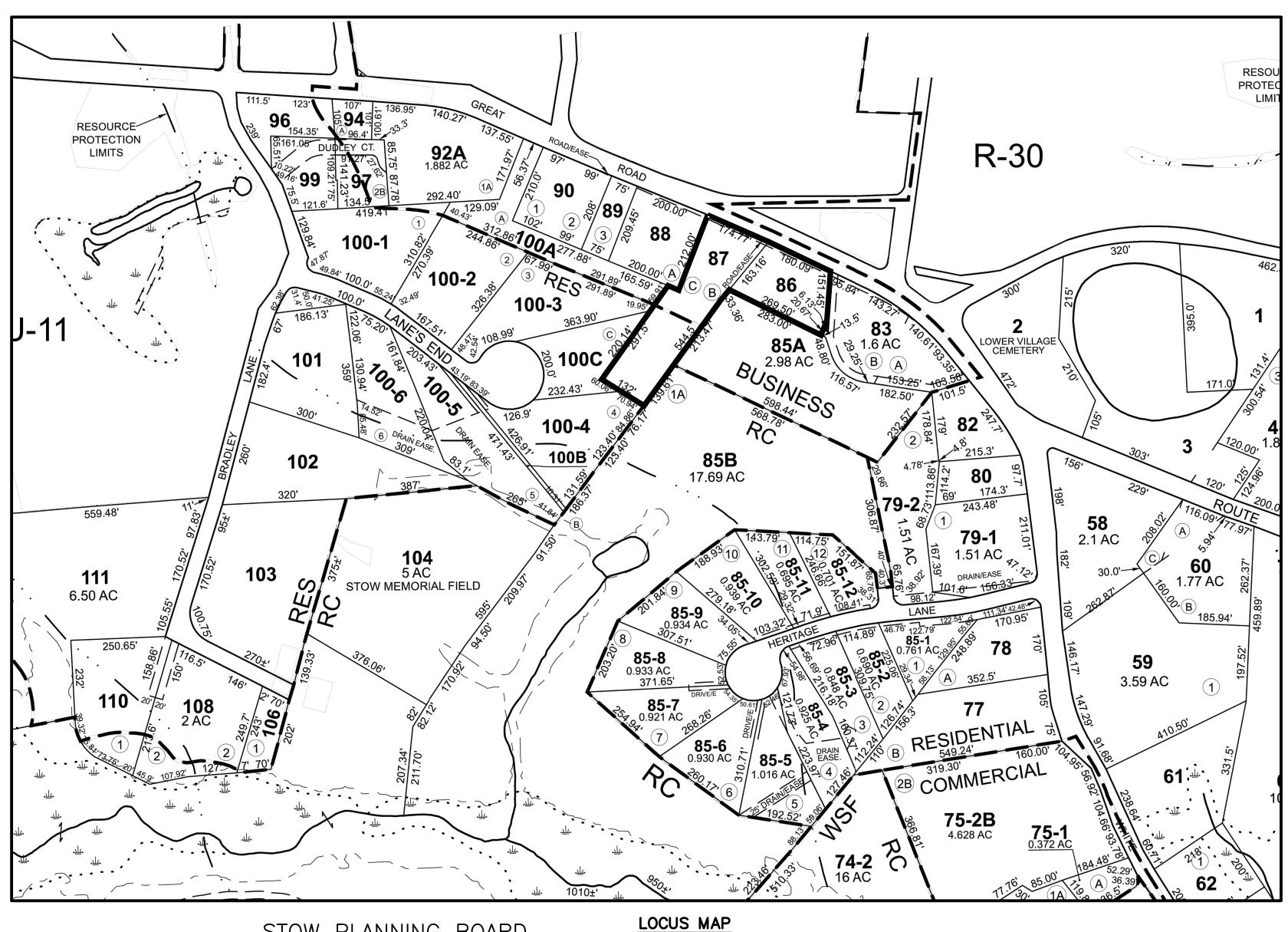
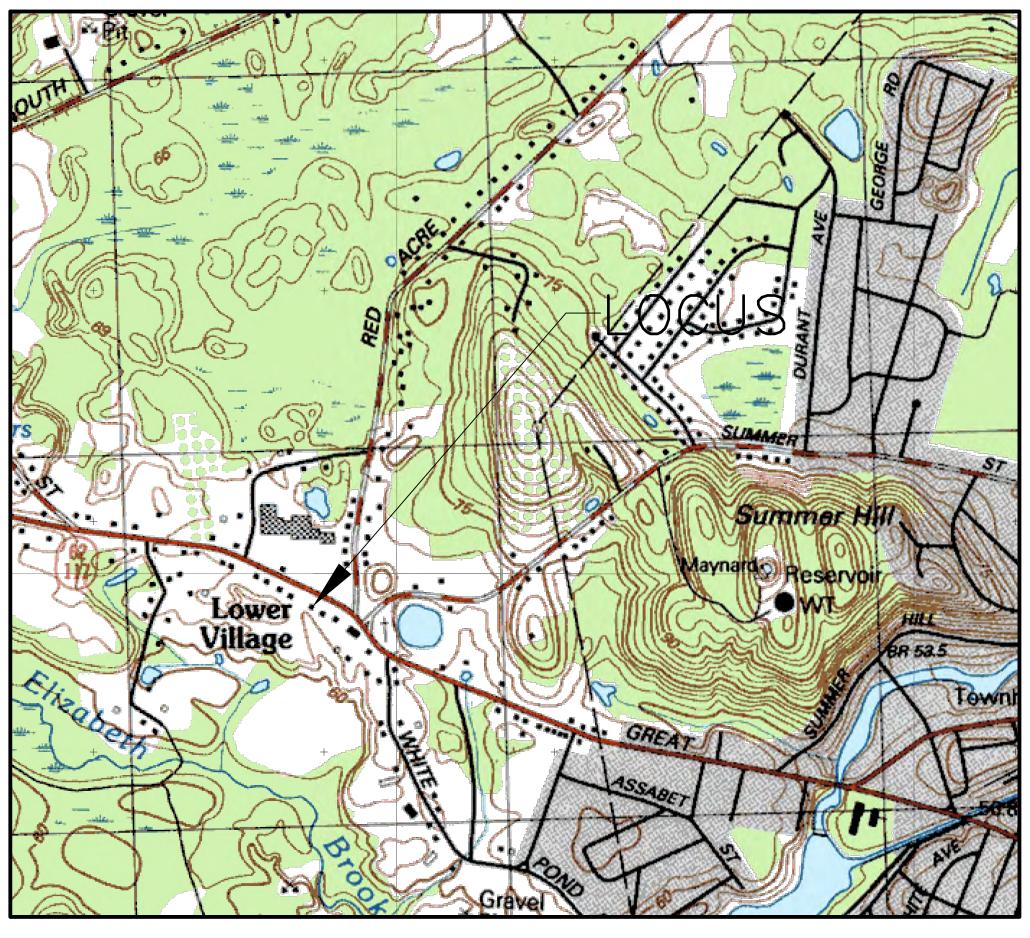
SITE PLAN

108-118 GREAT ROAD

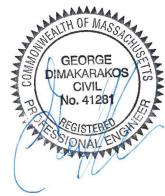
STOW, MASSACHUSETTS

JULY 30, 2019 REVISED: OCTOBER 25, 2019 REVISED: DECEMBER 14, 2020 REVISED: NOVEMBER 2, 2023





LOCUS MAP SCALE: 1"=1200'





STOW PLANNING BOARD

DATE:

SCALE: 1"=200'

PLAN INDEX

SHEET 1 SHEET 2 SHEET 3

SHEET 4 SHEET 5

COVER SHEET SITE DEVELOPMENT PLAN LAYOUT PLAN CONSTRUCTION DETAILS PLAN STORMWATER POLLUTION PREVENTION PLAN

APPLICANT/RECORD OWNER

JKC PROPERTIES LLC 14 NASON STREET SUITE 302 MAYNARD, MA

REFERENCES

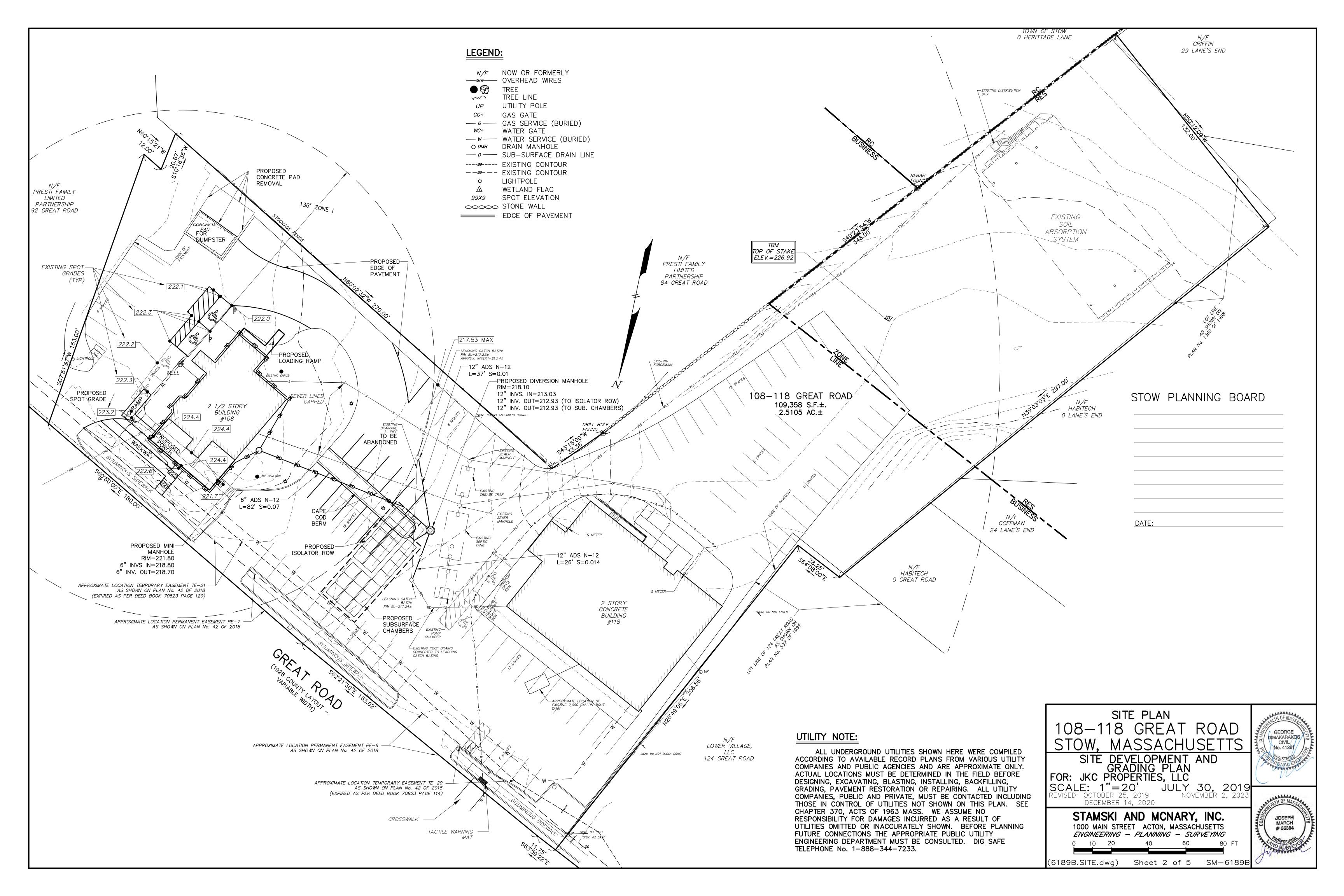
MIDDLESEX REGISTRY OF DEEDS SOUTH DISTRICT DEED BOOK 72042 PAGE 557 PLAN No. 1024 OF 1974

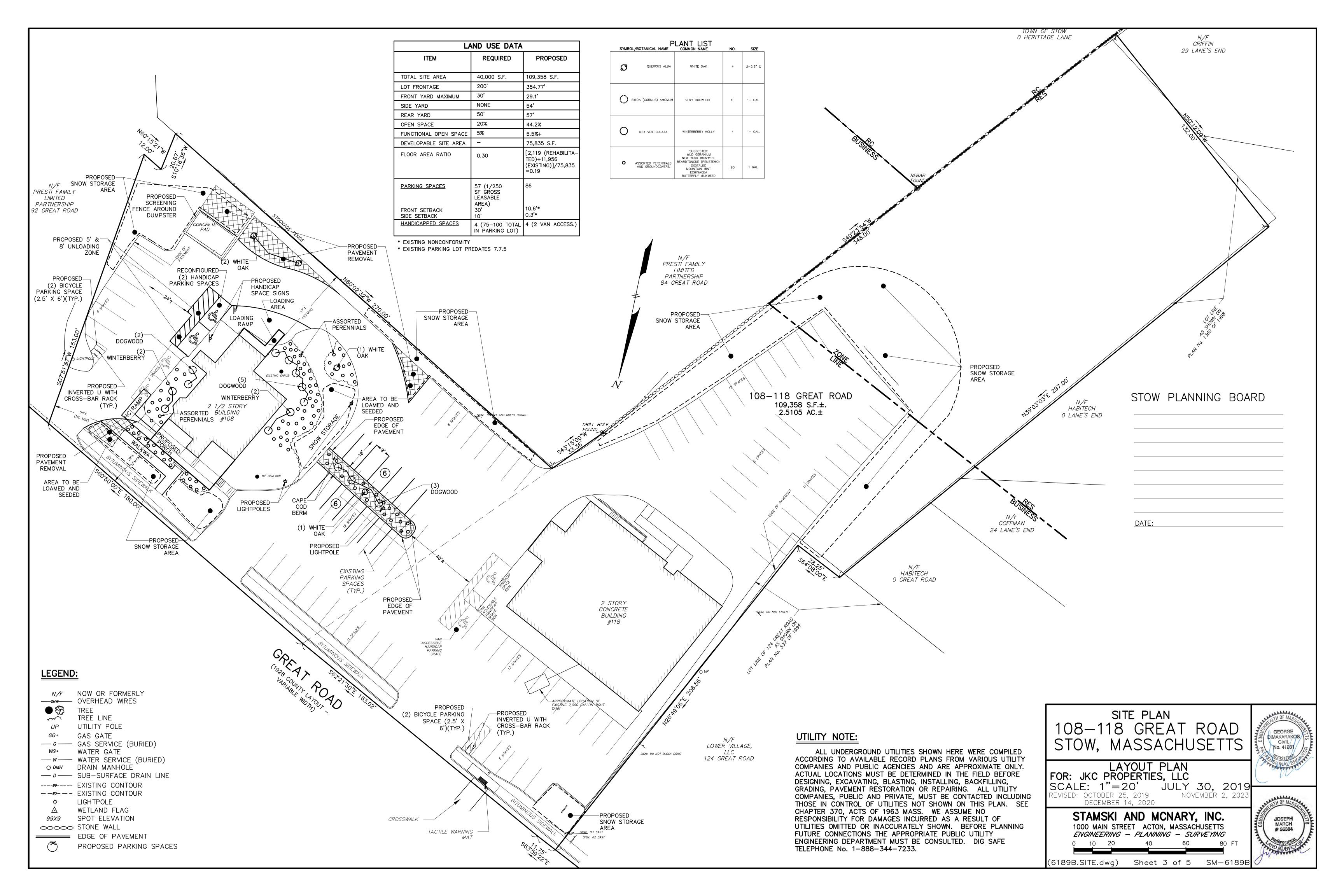
TOWN MAP R29 PARCELS 86 & 87

ENGINEER/SURVEYOR

STAMSKI AND MCNARY, INC. 1000 MAIN STREET ACTON, MA 01720

ZONING DISTRICT BUSINESS RESIDENTIAL





ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS **COMPACTION / DENSITY** AASHTO MATERIAL MATERIAL LOCATION DESCRIPTION CLASSIFICATIONS REQUIREMENT FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER PREPARE PER SITE DESIGN ENGINEER'S PLANS PAVED INSTALLATIONS MAY HAVE STRINGENT OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED ENGINEER'S PLANS CHECK PLANS FOR PAVEMENT N/A MATERIAL AND PREPARATION REQUIREMENTS. GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE SUBGRADE REQUIREMENTS. MAY BE PART OF THE 'D' LAYER AASHTO M145 BEGIN COMPACTIONS AFTER 24" (600 mm) OF A-1, A-2-4, A-3 INITIAL FILL: FILL MATERIAL FOR LAYER 'C' ANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% MATERIAL OVER THE CHAMBERS IS REACHED. STARTS FROM THE TOP OF THE EMBEDMENT FINES OR PROCESSED AGGREGATE. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN .95% PROCTOR DENSITY FOR STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT IOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU WELL GRADED MATERIAL AND 95% RELATIVE AASHTO M431 SUBBASE MAY BE A PART OF THE 'C' LAYER. OF THIS LAYER. DENSITY FOR PROCESSED AGGREGATE , 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 7 MATERIALS. 9, 10 **EMBEDMENT STONE: FILL SURROUNDING THE** AASHTO M431

3, 4

AASHTO M431

3, 4

LEBARON LC248 FRAME

EQUAL (SEE DETAIL)

AND COVER OR APPROVED

PLEASE NOTE:

ICHAMBERS FROM THE FOUNDATION STONE ('A

FOUNDATION STONE: FILL BELOW CHAMBERS

FROM THE SUBGRADE UP TO THE FOOT (BOTTOM)

LAYER) TO THE 'C' LAYER ABOVE

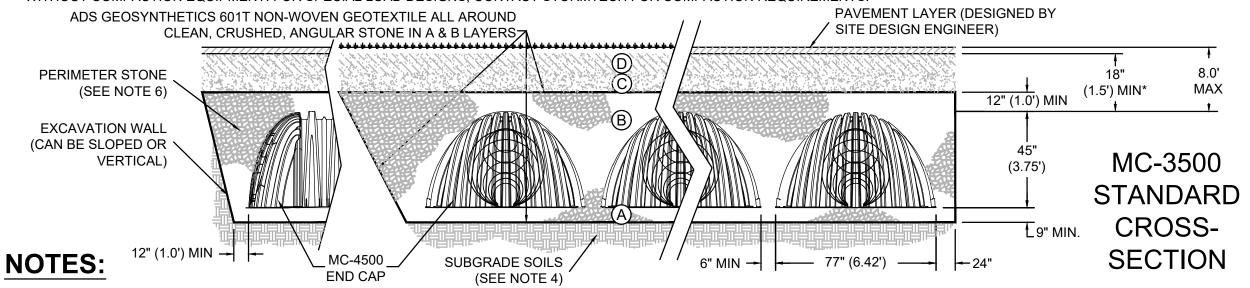
OF THE CHAMBER.

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"

CLEAN, CRUSHED, ANGULAR STONE

CLEAN, CRUSHED, ANGULAR STONE

- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR
- 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.



- MC-4500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION
- MC-4500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER **COLLECTION CHAMBERS"**
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND
- FILL MATERIALS STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS

12" INVERT

L TOP DIVERSION WALL BLDG

ELEV = 214.55

ISOLATOR ROW:

2 ROWS OF 5

(SEE DETAIL)

BOTTOM

STONE

211.80

STORMTECH MC-3500

BETWEEN ROWS

- 54.17'

ISOLATOR ROW 211.80

SUB. CHAMB.

ELEV = 213.03

12" OUTLET ELEV

(TO ISOLATOR ROW)

12" OUTLET ELEV=212.93

SUBSURFACE CHAMBERS:

PROPOSED:

CLEANOUTS

STORMTECH MC-3500

2 ROWS OF 3

1 ROW OF 7

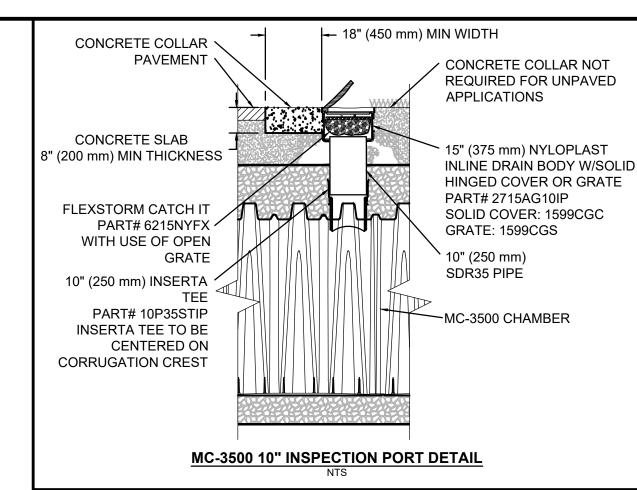
(TO SUBSURFACE

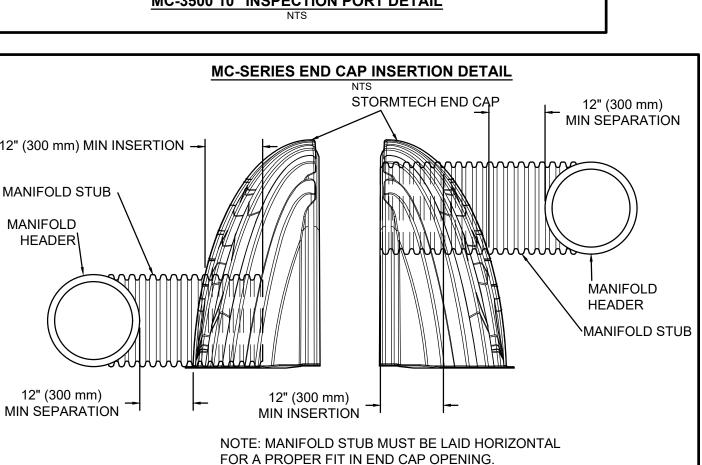
ELEV = 213.03

CHAMBERS)

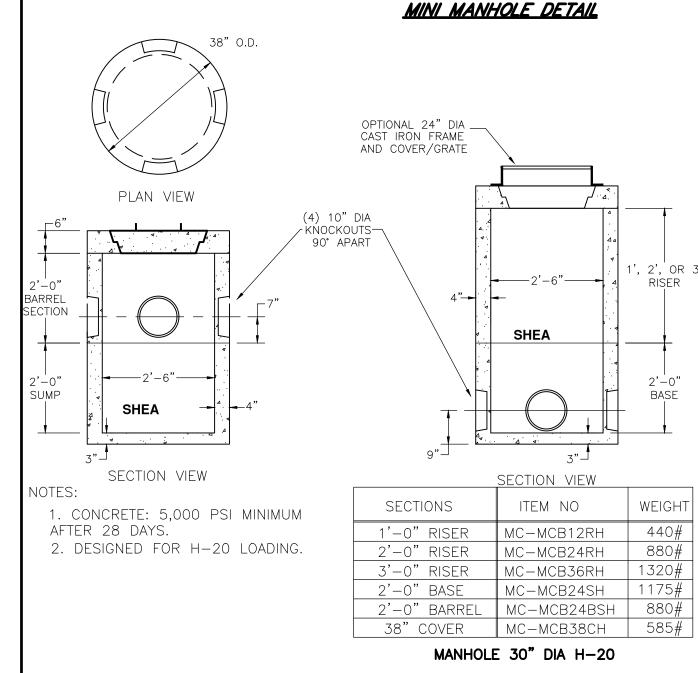
=212.93

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





DRAINI



COVER ENTIRE ROW WITH

STORMTECH END CAP-

ADS 601 NON-WOVEN

GEOTEXTILE (OR EQUAL)

ISOLATOR ROW PROFILE

BETWEEN FOUNDATION STONE AND CHAMBERS

2 LAYERS OF ADS 315ST WOVEN GEOTEXTILE (OR EQUAL)

INSPECTION PORT (SEE STORMTECH

MC-3500 INSPECTION PORT DETAIL) —

FLOOR BOX FRAME AND LID NEENAH R-7506 OR EQUAL PAVEMEN1 -FIN. GRAD **OVERFLOW** SPLASH BLOCK 4" SCH 40 PVC FROM DOWNSPOUT(S) DOWNSPOUT DETAIL NOT TO SCALE

-PAVEMENT LOAM AND SEED MATERIAL FOR BACKFILL CONTAINING NO RAVEL BASE-DRAIN STONES GREATER THAN 6 INCHES COMPACTED IN (MAX) LIFTS COMPACTED SELECT ONSITE MATERIAL FOR BACKFILL CONTAINING NO STONES GREATER

W/S.S. CAP SCREW LID

6" P.V.C. RISE

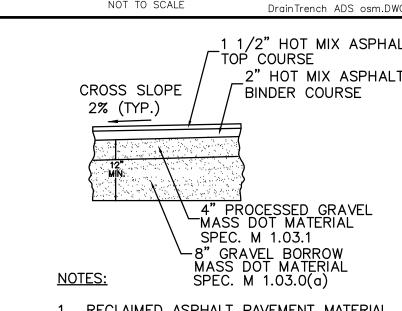
<u>CLEANOUT DETAIL</u>

NOT TO SCALE

EANOUT WITH-

CREW-IN CAP

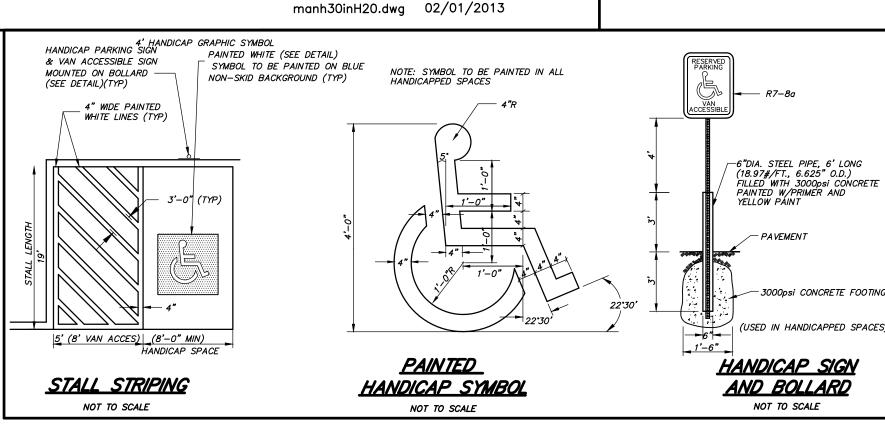
TRENCH DETAIL

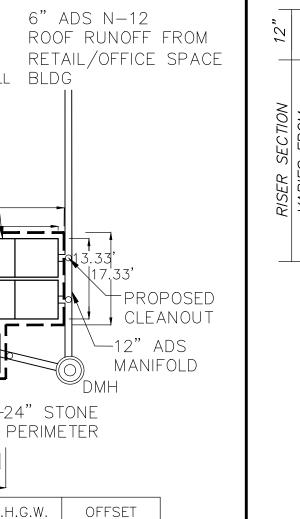


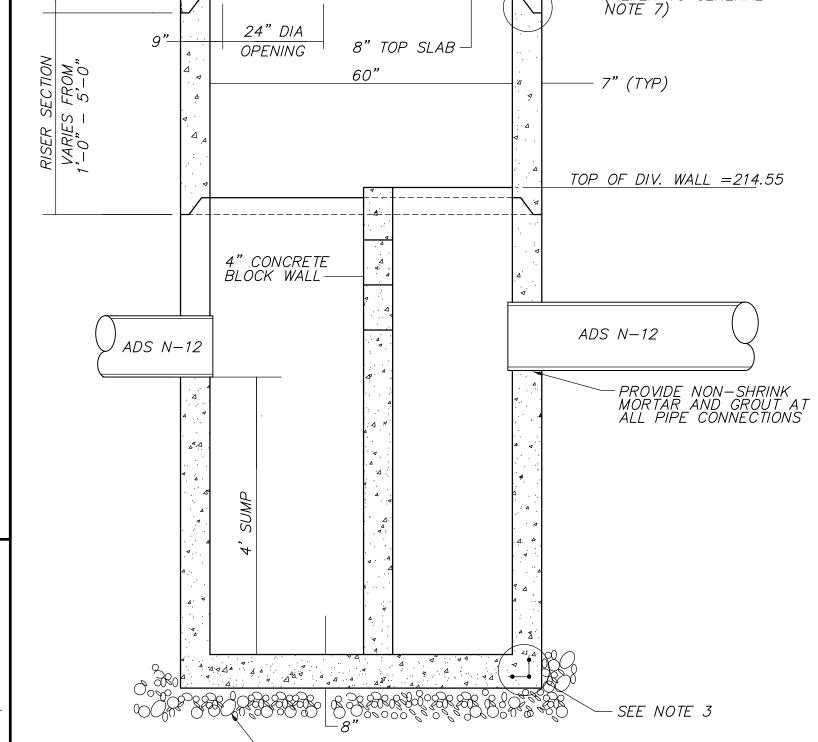
RECLAIMED ASPHALT PAVEMENT MATERIAL MAY BE SUBSTITUTED FOR DENSE GRADE CRUSHED STONE AND GRAVEL SUB-BASE

<u>TYPICAL PAVEMENT SECTION</u>

COVER OR APPROVED EQUAL







-FRAME TO BE SET IN FULL BED OF MORTAR

NO COMPACTION REQUIRED.

PLATE COMPACT OR ROLL TO ACHIEVE A FLAT

SURFACE. 2 3

>5.7'

>5.7'

DATE:

STOW PLANNING BOARD

E.S.H.G.W.

<206.1

< 206.1

. STRUCTURE AS MANUFACTURED BY SHEA CONCRETE (978) 658—2645 OR APPROVED EQUAL P. CONCRETE: 4,000 P.S.I. MIN. AFTER 28 DAYS.

REINFORCED STEEL CONFORMS TO LATEST A.S.T.M. A185 SPEC. 0.18 SQ. IN./LINEAL FT. AND 0.18 SQ. IN. (BOTH WAYS) BASE BOTTOM.

'COMPACTED CRUSHED STONE BASE

- H-20 DESIGN LOADING PER AASHTO. HS-20-44: ASTM C478 SPEC. FOR "PRECAST
- REINFORCED CONCRETE MANHOLE SECTIONS. BUTYL RESIN SECTION JOINT CONFORMS TO LATEST ASTM C443 SPEC.

PRECAST CONCRETE DIVERSION

MANHOLE NOT TO SCALE

GENERAL NOTES:

STD COVER W/ 3" LETTERING

2.MINIMUM WEIGHT: 425 LBS

3.MATERIAL: ASTM A48, CLASS

4.LEBARON LK110A FRAME AND

35B GRAY IRON

FRAME TYPE: C

PLAN VIEW

1 1/8"¬

SECTION A-A

MANHOLE FRAME AND COVER

(SEE 202.8.0 MHD STANDARDS)

- 1. ALL UNDERGROUND UTILITIES SHOWN HERE WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS FROM VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED BEFORE EXCAVATING BLASTING, INSTALLING, BACK FILLING, GRADING OR PAVEMENT RESTORATION OR REPAIR ALL UTILITY COMPANIES, PUBLIC AND PRIVATE MUST BE CONTACTED, INCLUDING THOSE IN CONTROL OF UTILITIES. SEE CHAPTER 370, ACTS OF 1963 MASS.

 WE ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS, THE APPROPRIATE UTILITY ENGINEERING DEPT. MUST BE CONSULTED. THE CONTRACTOR SHALL NOTIFY PUBLIC UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO DIGGING OR EXCAVATING ON PUBLIC OR PRIVATE PROPERTY. DIG SAFE TEL. NO. 1–888–344–7233
- 2. ALL STUMPS AND OTHER CONSTRUCTION DEBRIS SHALL BE PROPERLY REMOVED FROM THE SITE.
- 3. ANY FILL MATERIAL USED SHALL BE FREE OF HAZARDOUS MATERIALS, WASTE, AND CONSTRUCTION DEBRIS.
- 4. THE LIMITS OF WORK SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION OR SITE CLEARING PER THE STORMWATER POLLUTION PREVENTION PLAN.
- 5. EXISTING TOPSOIL SHALL BE STRIPPED, STOCKPILED, SCREENED AND SPREAD TO REQUIRED DEPTHS SHOWN ON THE PLAN.
- 6. CATCHBASIN SUMPS AND STORM WATER BASINS SHALL BE CLEANED FOLLOWING COMPLETION OF CONSTRUCTION AND ANNUALLY THEREAFTER PER O & M PLAN.
- THE ENTIRE WORK AREA SHALL BE CLEARED OF BUILDINGS TO BE RAZED, PAVEMENT, DEBRIS, BOULDERS, BRUSH, TREES, STUMPS, UNSUITABLE MATERIALS AND LIKE MATERIAL.
- ALL TOP AND SUBSOIL WITHIN WORK AREA SHALL BE REMOVED AND STOCKPILED ON SITE AS DIRECTED BY THE OWNER. LOAM SHALL BE SCREENED AND STOCKPILED ON-SITE FOR RE-USE IN AREAS OF GENERAL LOAM AND SEED.
- 9. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A SAFE CONDITION THROUGHOUT THE CONTRACT PERIOD. THE CONTRACTOR SHALL FULLY COMPLY WITH ALL STATE, FEDERAL, AND LOCAL REGULATIONS PERTAINING TO SAFETY.
- 10. ALL CONSTRUCTION METHODS SHALL CONFORM TO THE REQUIREMENTS CONTAINED IN THE LATEST VERSION OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION — HIGHWAY DIVISION (MASSDOT). STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES AND CONSTRUCTION AND TRAFFIC STANDARD DETAILS.

SITE PLAN 108-118 GREAT ROAD STOW, MASSACHUSETTS

CONSTRUCTION DETAILS FOR: JKC PROPERTIES, LLC

1"=20' JULY 30, 2019 NOVEMBER 2, 2023 REVISED: OCTOBER 25, 2019 DECEMBER 14, 2020



(6189B.SITE.dwg) Sheet 4 of 5 SM-6189E



GEORGE

DIMAKARAKOS

CIVIL

No. 41281

