



WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:

Bill O'Rourke, Sudbury Deputy Director of Public Works		orourke@sudbury.ma.us	
Name		E-Mail Address	
275 Old Sudbury Road			
Mailing Address			
Sudbury		MA	01776
City/Town		State	Zip Code
9784405442		_____	
Phone Number		Fax Number (if applicable)	

2. Representative (if any):

Firm			
_____		_____	
Contact Name		E-Mail Address	

Mailing Address			
_____		_____	_____
City/Town		State	Zip Code
_____		_____	
Phone Number		Fax Number (if applicable)	

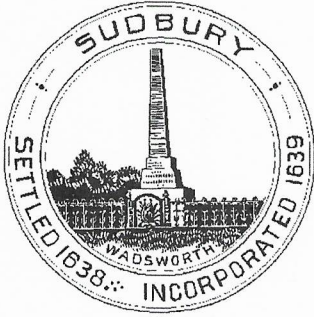
B. Determinations

1. I request the Sudbury _____ make the following determination(s). Check any that apply:
Conservation Commission

- a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
- b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
- c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
- d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Sudbury
Name of Municipality

- e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).



**NOTICE OF PUBLIC MEETING
SUDBURY CONSERVATION COMMISSION**

The Sudbury Conservation Commission will hold a public meeting on a Wetland Protection Act and Wetlands Bylaw Request for Determination of Applicability filing to repave and implement drainage improvements in the parking lot within a Resource Area, at 77 Hudson Road, Sudbury MA. Town of Sudbury, applicant. The meeting will be held on Monday, August 26, 2019 at 6:45 pm at DPW Building Conference Room, 275 Old Lancaster Rd. Sudbury MA. Copies of the application may be reviewed at the Conservation office at 275 Old Lancaster Rd, Sudbury, MA. during business hours.

SUDBURY CONSERVATION COMMISSION
August 14, 2019



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C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

<u>77 Hudson Road</u>	<u>Sudbury</u>
Street Address	City/Town
<u>G08</u>	<u>0008</u>
Assessors Map/Plat Number	Parcel/Lot Number

b. Area Description (use additional paper, if necessary):

Parking Lot Improvements, Sudbury Fire Department

c. Plan and/or Map Reference(s):

<u>Ex. Conditions, Site Demo, Sediment and Erosion Control Plan</u>	<u>8/28/2019</u>
Title	Date
<u>Site Plan</u>	<u>8/28/2019</u>
Title	Date
<u>Site Details</u>	<u>8/28/2019</u>
Title	Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

See Attached.



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C. Project Description (cont.)

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

Project within 200-foot river front area, a tributary to Hop Brook.

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- Single family house on a lot recorded on or before 8/1/96
- Single family house on a lot recorded after 8/1/96
- Expansion of an existing structure on a lot recorded after 8/1/96
- Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96
- New agriculture or aquaculture project
- Public project where funds were appropriated prior to 8/7/96
- Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- Residential subdivision; institutional, industrial, or commercial project
- Municipal project
- District, county, state, or federal government project
- Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)



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D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Melissa Murphy Rodrigues
Name

278 Old Sudbury Road
Mailing Address

Sudbury
City/Town

MA 01776
State Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Signature of Applicant Date

Signature of Representative (if any) Date



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

City/Town _____

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 State Zip Code

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Maryanne B. ...
 Signature of Applicant

8/13/19
 Date

Walter F. O'R...
 Signature of Representative (if any)

8/13/19.
 Date

Parking Lot Improvements,
Sudbury Fire Department
77 Hudson Road
Sudbury, MA 01776

Description of Work

Sudbury's Fire Department parking lot is in disrepair and needs replacement. The parking lot was last paved in 2008 and includes approximately 15,000 SF of pavement. Problems with the current design include insufficient pitch toward drainage structures, poor draining brick front walkway, and high ground water pouring from cracks in the pavement. The new parking lot will match the limits of the old lot with the exception of an additional 200 square feet of pavement in the vicinity of a fire hydrant. Part of the parking lot is within the 200-foot riverfront area.

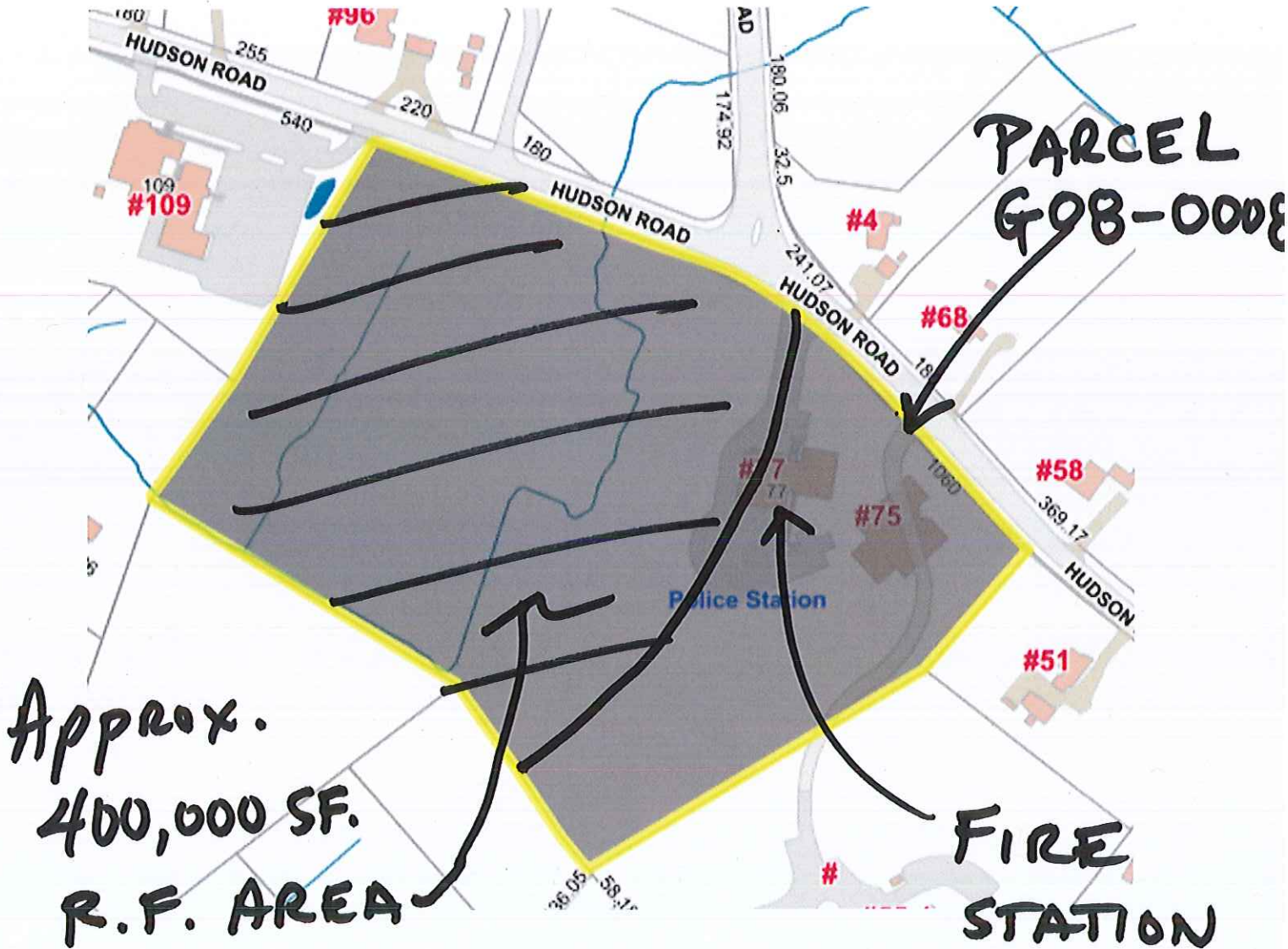
Work includes full depth pulverization of bituminous driveway and bituminous berms, fine grading and rolling the subgrade, installation of bituminous binder and surface course, and installation of bituminous berms. The project essentially removes and replaces the existing footprint of the parking lot with slight modifications to the surface pitch to improve drainage. 200 SF of additional pavement is sought within the 200-foot riverfront area for Fire Department training safety. Incidental work includes a concrete walkway, a concrete apron and loam and seed.

The project's erosion control and limit of work is shown on Sheet 2. 9-inch straw wattles are called for on the plan and a detail is included on Sheet 4.

The additional 200 square feet of pavement is in the vicinity of the fire hydrant which is located within the 200-foot riverfront area. Fire Department personnel use this hydrant for training purposes. One skill includes opening and closing the hydrant. When the hydrant is fully open the water's velocity erodes the soil on the ground causing a muddy mess. Years ago the solution to this was to install 6-inch diameter trap rock to protect from erosion. Unfortunately, the trap rock is unstable underfoot and the fire department complains of potential injury. They have requested the area around the hydrant be paved for their safety. There are no other hydrants on site to use for training purposes. Calculations are provided that allow for the additional pavement within the riverfront area with the permission of the Conservation Commission.

In the back of the fire station (south of the building) seasonal high ground water pours from four areas of the existing parking lot. The project intends to install a sub drain to capture this subsurface water and pipe it to the existing catch basin. The subdrain is detailed on Sheet 4 and includes crushed stone, perforated PVC pipe, and filter fabric.

River Front Area Calculations for Justification of 200 SF of additional Pavement Around Fire Hydrant



Parcel G08-0008 Total Area = 13.558 Acres or **590,587 SF** (From Town's MapsOnline)

Square Footage of Parcel that is Riverfront Area = **400,000 SF** (Above Hatched Area from Town's MapsOnline)

Total Area of Pavement Reconstruction within RF Area = **15,000 SF**

Percentage Calculation = $(15,000 / 400,000) \times 100 = 3.75\%$

Since 3.75% is below the 10% WPA threshold, then the Town is justified in requesting an additional 200 SF of pavement around the fire hydrant for training purposes.

PARKING LOT IMPROVEMENTS

SUDBURY FIRE DEPARTMENT

77 HUDSON ROAD

SUDBURY, MA 01776

AUGUST 28, 2019

REVISION/ISSUE DATES		
1	ISSUED FOR CONSTRUCTION	8/28/2018



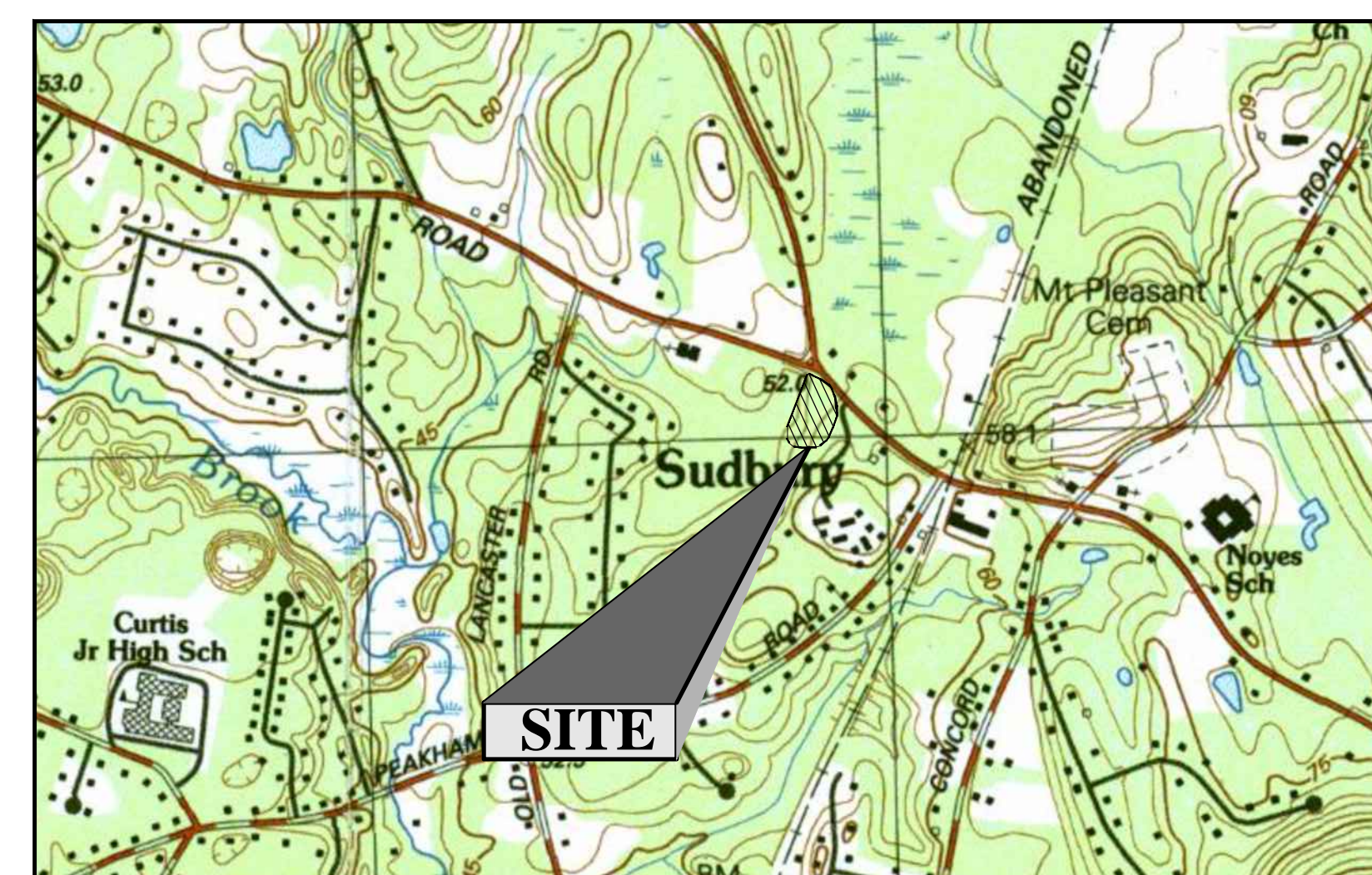
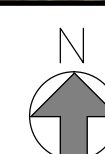
OWNER/APPLICANT

TOWN OF SUDBURY
278 OLD SUDBURY ROAD
SUDBURY, MA 01776



LOCUS - AERIAL

SCALE: 1"=1,000'



LOCUS - USGS

SCALE: 1"=1,000'



SHEET INDEX

- 1 - Cover Sheet
- 2 - Existing Conditions, Site Demo, Sediment & Erosion Control Plan
- 3 - Site Plan
- 4 - Site Details

PREPARED BY:



100 GROVE STREET | WORCESTER MA 01605
T 508-856-0321 | F 508-856-0357
gravesengineering.com

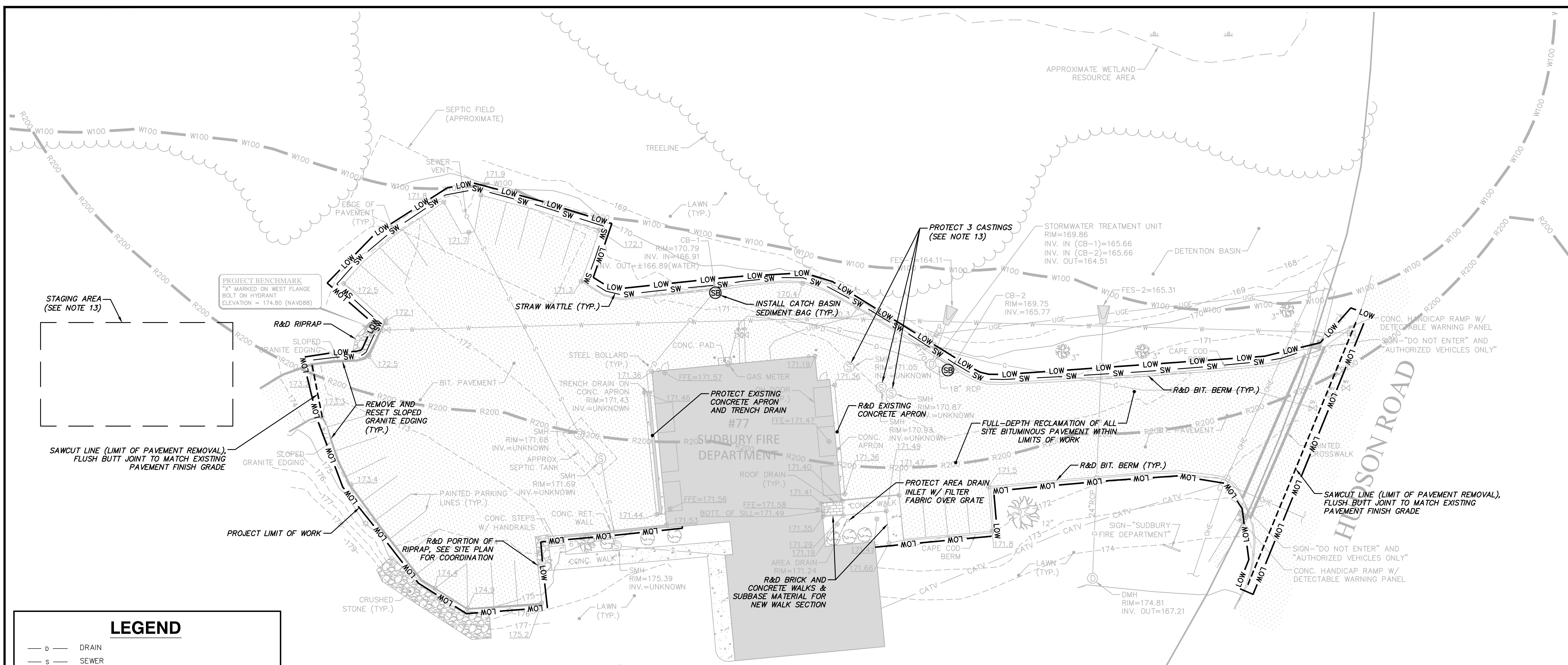
NO.	DATE	BY	DESCRIPTION
1	8/28/19	MRA	ISSUED FOR CONSTRUCTION

NO.	DATE	BY	DESCRIPTION

EXISTING CONDITIONS, SITE DEMO., SEDIMENT & EROSION CONTROL PLAN
PARKING LOT IMPROVEMENTS
SUDBURY FIRE DEPARTMENT, 77 HUDSON ROAD, SUDBURY, MA 01776

CLIENT: TOWN OF SUDBURY
278 OLD SUDBURY ROAD, SUDBURY, MA 01776

DATE: 8/28/19 | SCALE: 1"=20' | DES. BY: DRB | DRW. BY: DRB | CHK. BY: MRA | PRJ. NO.: 18113



LEGEND

- d — DRAIN
- s — SEWER
- w — WATER
- CATV — UNDERGROUND CABLE & TELEVISION
- UGE — UNDERGROUND ELECTRIC
- OHE — OVERHEAD ELECTRIC
- G — GAS
- ⊙ — SEWER MANHOLE / SEPTIC SYSTEM MANHOLE
- ⊙ — DRAIN MANHOLE
- ⊙ — CATCH BASIN
- ⊙ — GAS VALVE
- ⊙ — WATER VALVE
- ⊙ — HYDRANT
- ⊙ — UTILITY POLE
- ⊙ — SIGN
- W100 — 100-FOOT WETLAND BUFFER ZONE (APPX.)
- LOW — LIMIT OF WORK
- R200 — 200-FOOT RIVERFRONT BUFFER ZONE (APPX.)
- 🌳 — TREE
- 🌿 — SHRUB
- ▨ — BITUMINOUS PAVEMENT
- ▨ — CONCRETE (CONC.)
- ▨ — BRICK
- ☆ — LIGHT POLE
- — BOLLARD
- R&D — REMOVE AND DISPOSE (OFFSITE)
- FES — FLARED END SECTION
- 171.53 — SPOT GRADE

- ### SHEET NOTES
- ALL EXISTING PAVEMENT ABUTTING NEW PAVEMENT SHALL BE NEATLY SAWCUT.
 - ALL ITEMS NOTED TO BE REMOVED AND DISPOSED SHALL BE PROPERLY DISPOSED OF OFFSITE.
 - SEE PROJECT SPECIFICATIONS FOR FULL-DEPTH RECLAMATION PROCEDURES AND PLAN DETAILS FOR NEW PAVEMENT SECTION.
 - STOCKPILE LOCATIONS, IF NECESSARY, SHALL BE COORDINATED WITH THE OWNER AND THE ENGINEER AND SHALL BE RINGED WITH SILTFENCE.
 - THE CONTRACTOR SHALL EMPLOY ANY AND ALL EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT A RELEASE OF SEDIMENT FROM THE SITE.
 - SEDIMENT AND EROSION CONTROLS SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE WORK.
 - ANY SEDIMENT TRACKED ONTO ROADWAYS ADJACENT TO THE SITE (HUDSON ROAD) SHALL BE SWEEPED CLEAN EACH DAY.
 - ALL DISTURBED NON-PAVED AREAS SHALL BE LOAMED AND SEEDED. LOAM SHALL BE PLACED 6 INCHES THICK AND SEEDED WITH LAWN MIX.
 - THE SITE SHALL BE GENERALLY REPAVED TO EXISTING GRADES WITH MINOR ADJUSTMENTS AS NECESSARY TO ELIMINATE TRIP HAZARDS AND LOW SPOTS, EXCEPT WHERE NOTED OR SHOWN OTHERWISE ON THE PLANS. PROVIDE POSITIVE DRAINAGE IN ALL FINISH GRADED WORK AREAS AND AWAY FROM ALL BUILDINGS.
 - ADJUST ALL EXISTING CASTINGS (MANHOLES, CATCH BASINS, ETC.), WATER AND GAS GATE VALVES, SHUTOFFS, SEPTIC SYSTEM CLEANOUTS & VALVE COVERS, ETC. TO FINISH GRADES WITHIN THE LIMIT OF WORK.
 - EXCESS MATERIAL DUE TO "SWELLING" FROM THE FULL DEPTH PAVEMENT RECLAMATION PROCESS SHALL BE REMOVED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
 - THREE (3) CASTINGS AS SHOWN ON THE PLAN ARE TO BE PROTECTED AND NOT DISTURBED DURING PAVEMENT RECLAMATION. THESE STRUCTURES HAVE RECENTLY BEEN EPOXY COATED AND THE SEAL CANNOT BE DISTURBED.
 - DUE TO THE PROXIMITY OF THE MUSKETAHQUID VILLAGE SEPTIC SYSTEM, THE CONTRACTOR MUST COORDINATE THE LIMITS OF THE STAGING AREA WITH THE OWNER PRIOR TO USE.

GENERAL NOTES

PARCEL DATA:
STREET ADDRESS: 77 HUDSON ROAD, SUDBURY, MA 01776

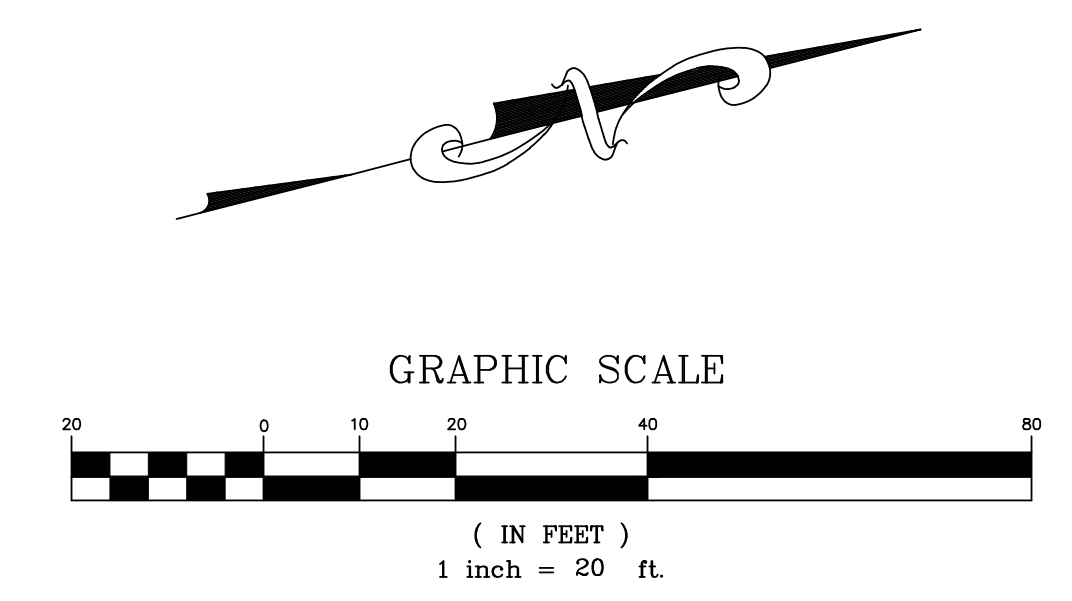
AREA: ±13.6 AC.

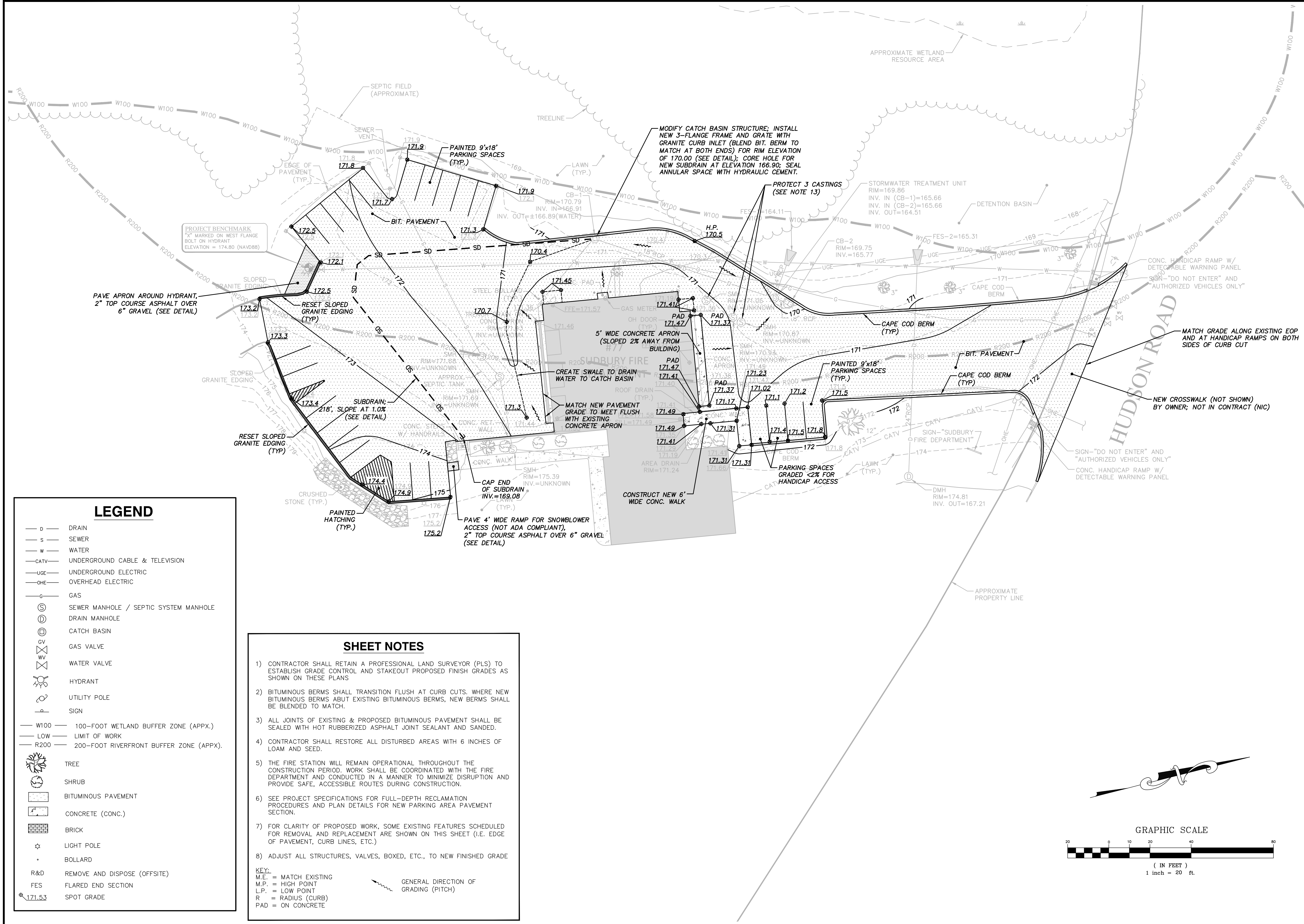
OWNER: TOWN OF SUDBURY
278 OLD SUDBURY ROAD
SUDBURY, MA 01776

NOTES:

- THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ANY FINDINGS SUCH A REPORT MIGHT DISCLOSE.
- LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON THE FIELD LOCATION OF VISIBLE STRUCTURES SUCH AS CATCH BASINS, MANHOLES, WATER GATES, ETC. AS WELL AS FROM A PLAN SET ENTITLED "SUDBURY FIRE HEADQUARTERS" PREPARED BY THE CARELL GROUP" DATED FEBRUARY 11, 1991 AND A PLAN ENTITLED "TOPOGRAPHIC PLAN IN SUDBURY, MASSACHUSETTS SHOWING FIRE HEADQUARTERS" PREPARED BY THE TOWN OF SUDBURY ENGINEERING DEPARTMENT DATED MAY 1, 2017 IN ACCORDANCE WITH CHAPTER 82 SECTION 40 INCLUDING AMENDMENTS, ALL CONTRACTORS SHOULD NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE AT 811. THE TOWN OF SUDBURY SHALL ALSO BE CONTACTED FOR UTILITY MARKOUTS.
- TOPOGRAPHIC FEATURES ON THIS PLAN ARE BASED ON AN INSTRUMENT SURVEY PERFORMED BY GRAVES ENGINEERING, INC. ON MAY 25, 2018 AND JUNE 5, 2018. SURVEY NOTES ARE RECORDED IN SURVEY BOOK S-47, PAGES 77-80. PROPERTY LINE DATA IS COMPILED FROM GIS AND SHALL BE CONSIDERED APPROXIMATE.
- THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 88; SEE PLANS FOR PROJECT BENCHMARK. HORIZONTAL DATUM IS MASSACHUSETTS STATE PLANE COORDINATE SYSTEM.
- THE SITE PROPERTY IS NOT LOCATED WITHIN ANY DESIGNATION FLOOD ZONES AS SHOWN ON FIRM MAP 25017C0506F, DATED JULY 7, 2014.
- PROPERTY LINES AND ECOLOGICAL RESOURCE AREAS AND BUFFER ZONES SHOWN ON THIS PLAN ARE COMPILED FROM GIS AND SHALL BE CONSIDERED APPROXIMATE.

REFERENCES:
DEED BOOK/PAGE: 12468/517 (MASS GIS)
ASSESSORS REFERENCE: G08-0008



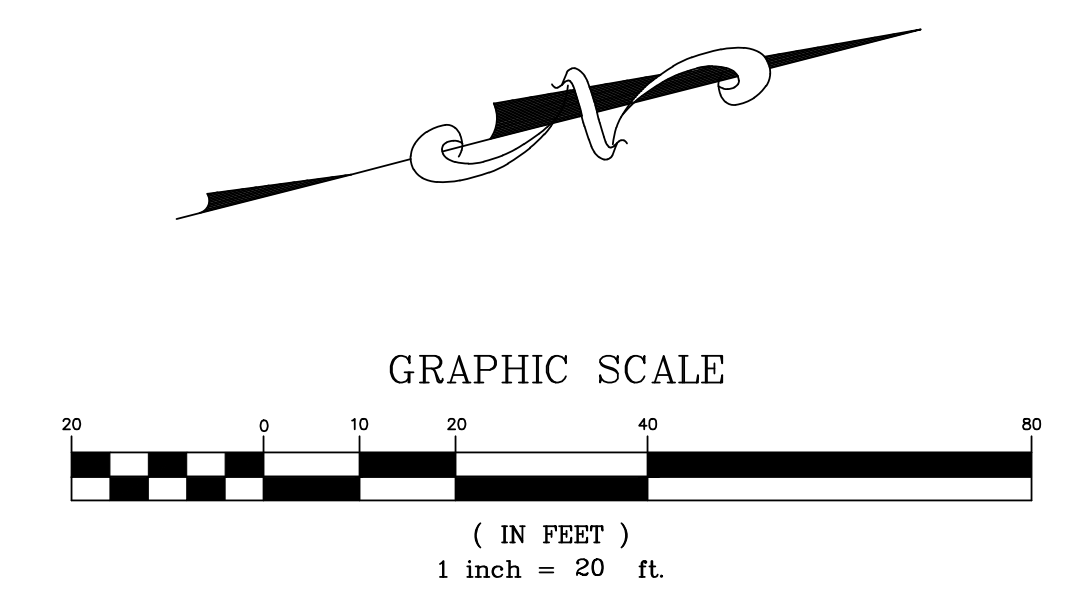


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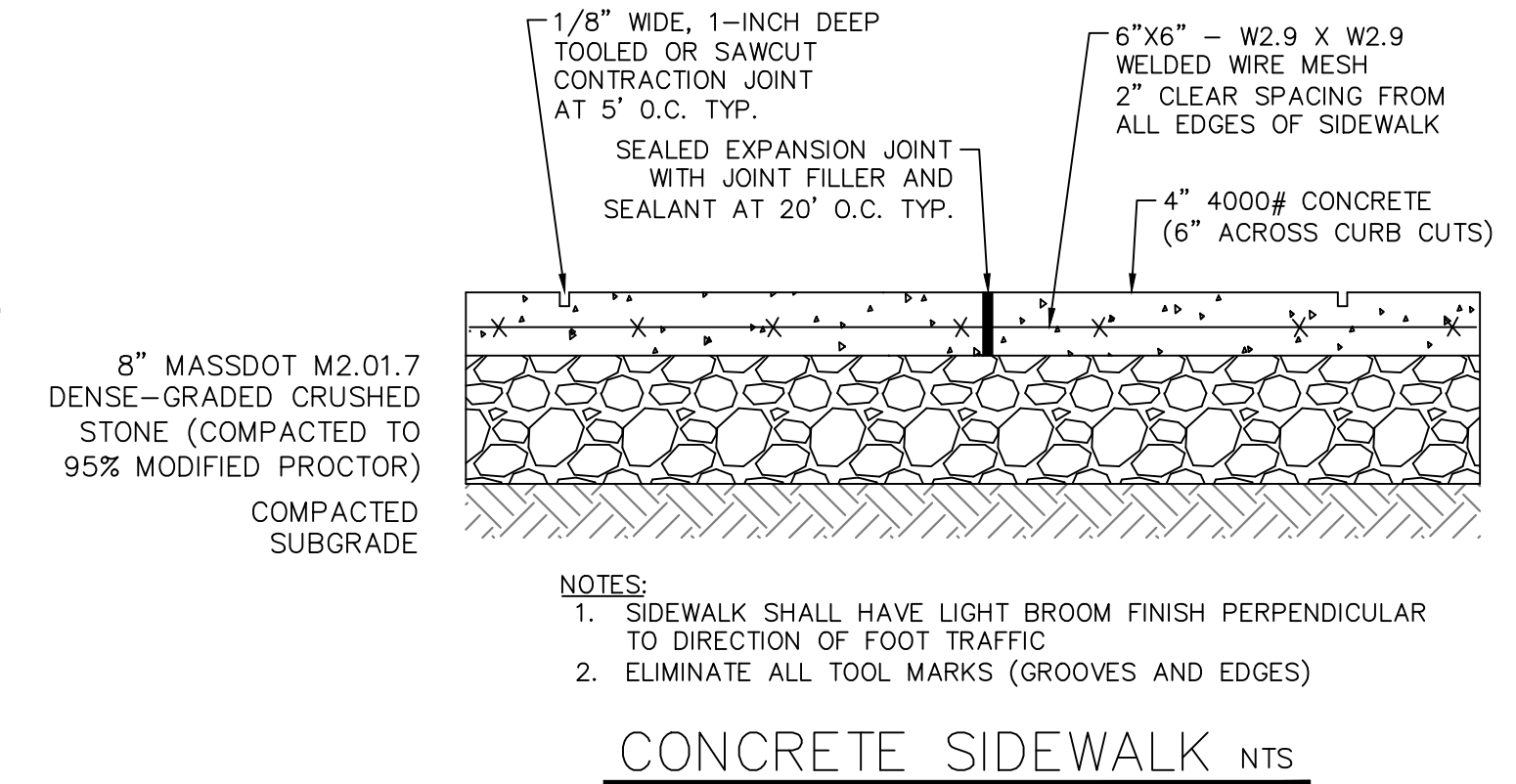
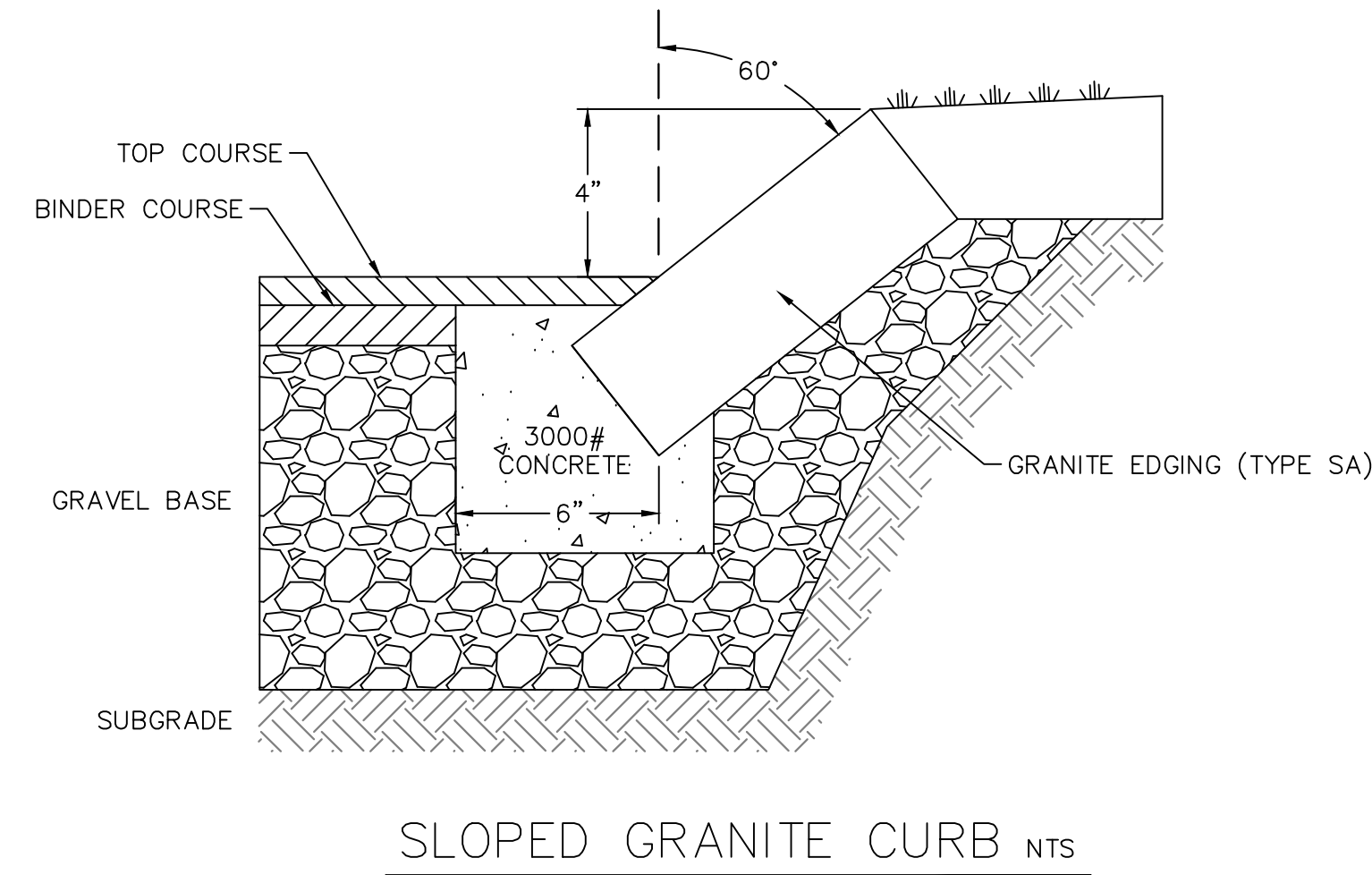
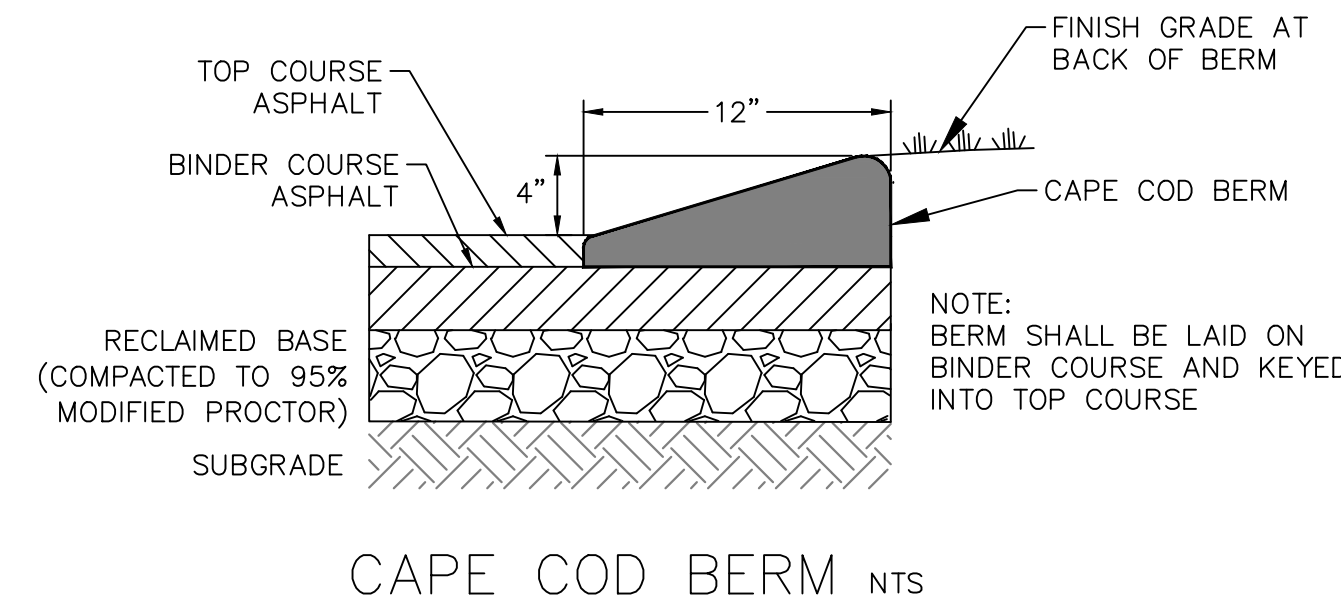
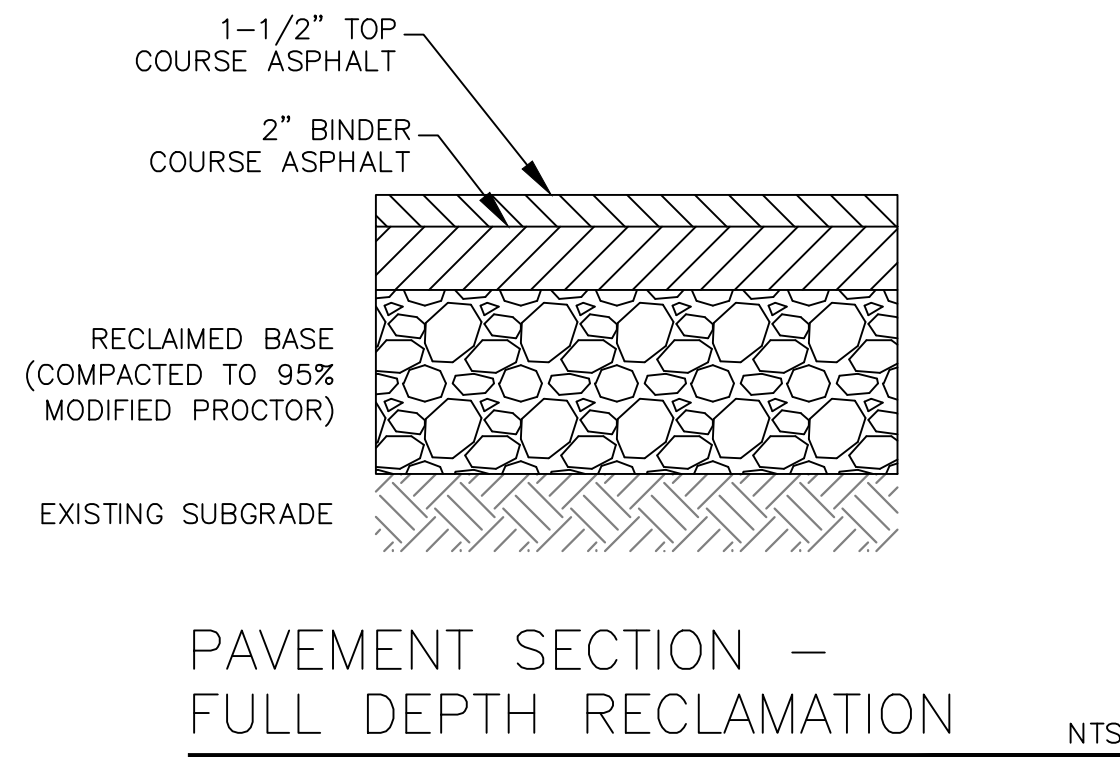
SHEET NOTES

- 1) CONTRACTOR SHALL RETAIN A PROFESSIONAL LAND SURVEYOR (PLS) TO ESTABLISH GRADE CONTROL AND STAKEOUT PROPOSED FINISH GRADES AS SHOWN ON THESE PLANS.
 - 2) BITUMINOUS BERMS SHALL TRANSITION FLUSH AT CURB CUTS. WHERE NEW BITUMINOUS BERMS ABUT EXISTING BITUMINOUS BERMS, NEW BERMS SHALL BE BLENDED TO MATCH.
 - 3) ALL JOINTS OF EXISTING & PROPOSED BITUMINOUS PAVEMENT SHALL BE SEALED WITH HOT RUBBERIZED ASPHALT JOINT SEALANT AND SANDED.
 - 4) CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITH 6 INCHES OF LOAM AND SEED.
 - 5) THE FIRE STATION WILL REMAIN OPERATIONAL THROUGHOUT THE CONSTRUCTION PERIOD. WORK SHALL BE COORDINATED WITH THE FIRE DEPARTMENT AND CONDUCTED IN A MANNER TO MINIMIZE DISRUPTION AND PROVIDE SAFE, ACCESSIBLE ROUTES DURING CONSTRUCTION.
 - 6) SEE PROJECT SPECIFICATIONS FOR FULL-DEPTH RECLAMATION PROCEDURES AND PLAN DETAILS FOR NEW PARKING AREA PAVEMENT SECTION.
 - 7) FOR CLARITY OF PROPOSED WORK, SOME EXISTING FEATURES SCHEDULED FOR REMOVAL AND REPLACEMENT ARE SHOWN ON THIS SHEET (I.E. EDGE OF PAVEMENT, CURB LINES, ETC.)
 - 8) ADJUST ALL STRUCTURES, VALVES, BOXED, ETC., TO NEW FINISHED GRADE
- KEY:**
M.E. = MATCH EXISTING
M.P. = HIGH POINT
L.P. = LOW POINT
R = RADIUS (CURB)
PAD = ON CONCRETE



NO.	DATE	BY	DESCRIPTION	REVISIONS
1	8/28/19	MRA	ISSUED FOR CONSTRUCTION	

SITE PLAN
PARKING LOT IMPROVEMENTS
SUBBURY FIRE DEPARTMENT, 77 HUDSON ROAD, SUBBURY, MA 01776
CLIENT: TOWN OF SUBBURY
278 OLD SUBBURY ROAD, SUBBURY, MA 01776
DATE: 8/28/19 | SCALE: 1"=20' | DES. BY: DRB | DRW. BY: DRB | CHK. BY: MRA | PRJ. NO.: 18113

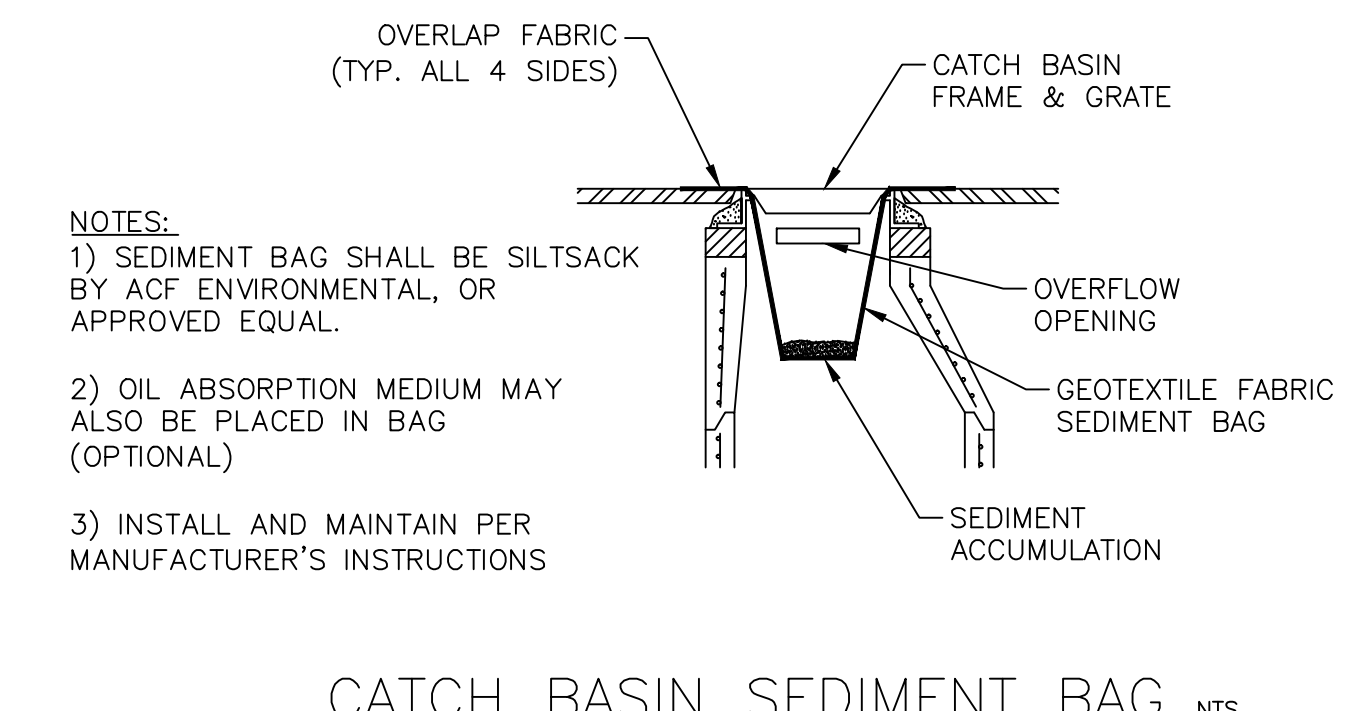
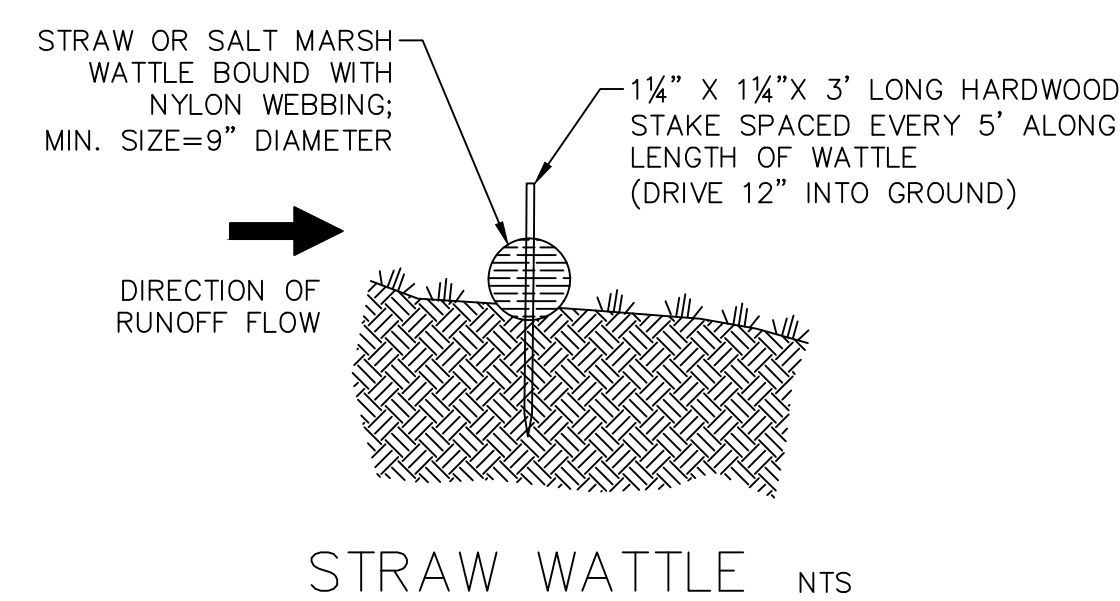
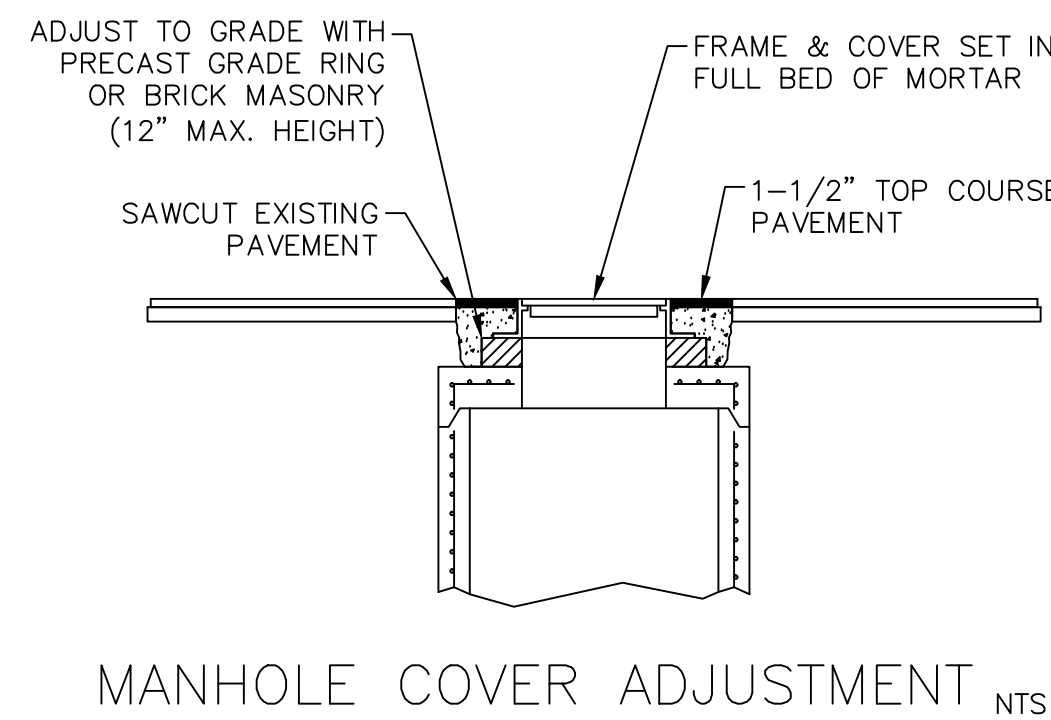
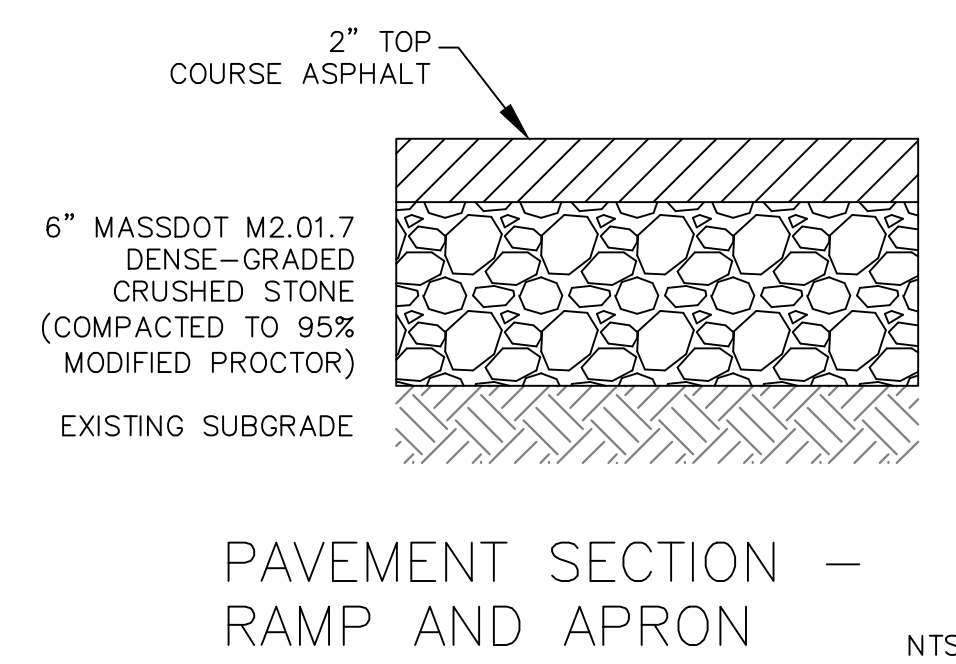


PAVEMENT SECTION - FULL DEPTH RECLAMATION NTS

CAPE COD BERM NTS

SLOPED GRANITE CURB NTS

CONCRETE SIDEWALK NTS

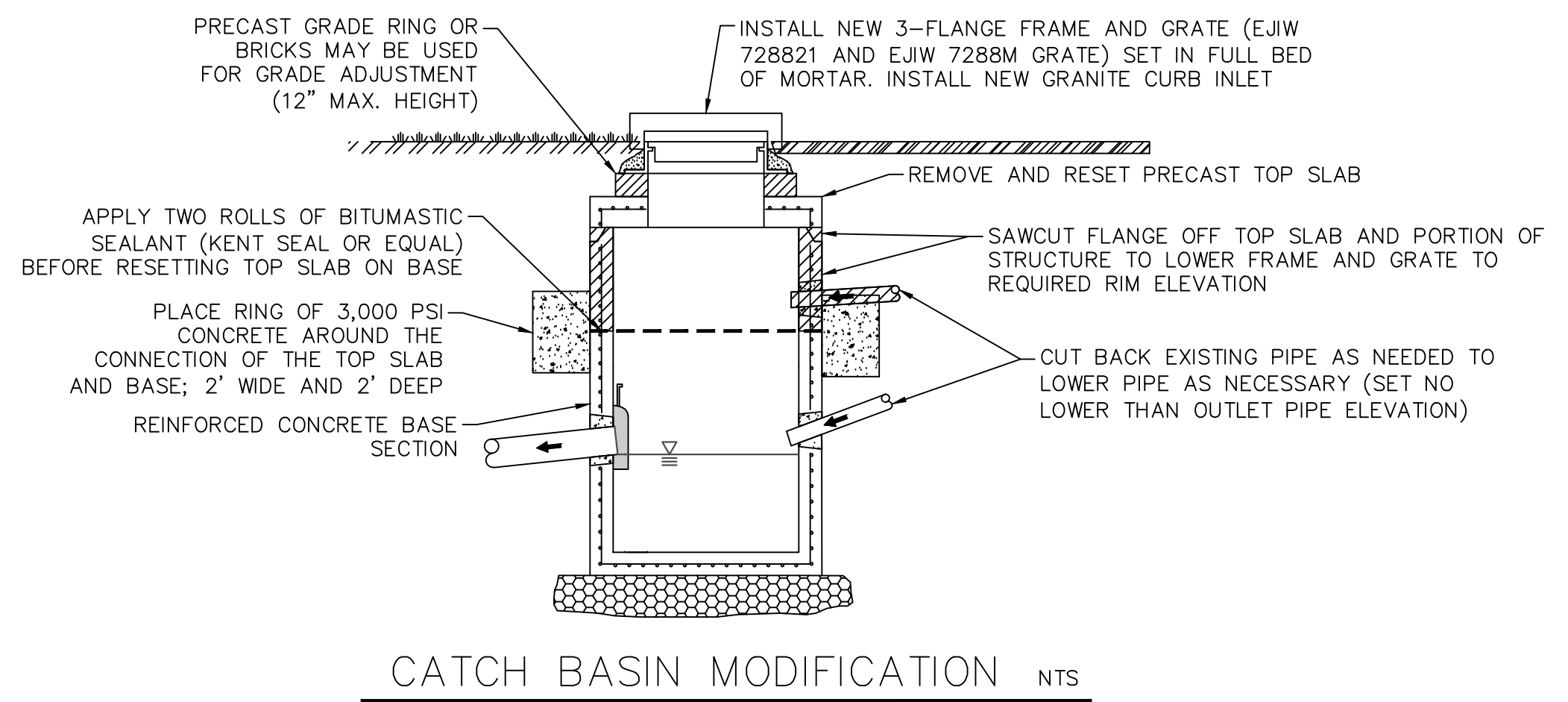
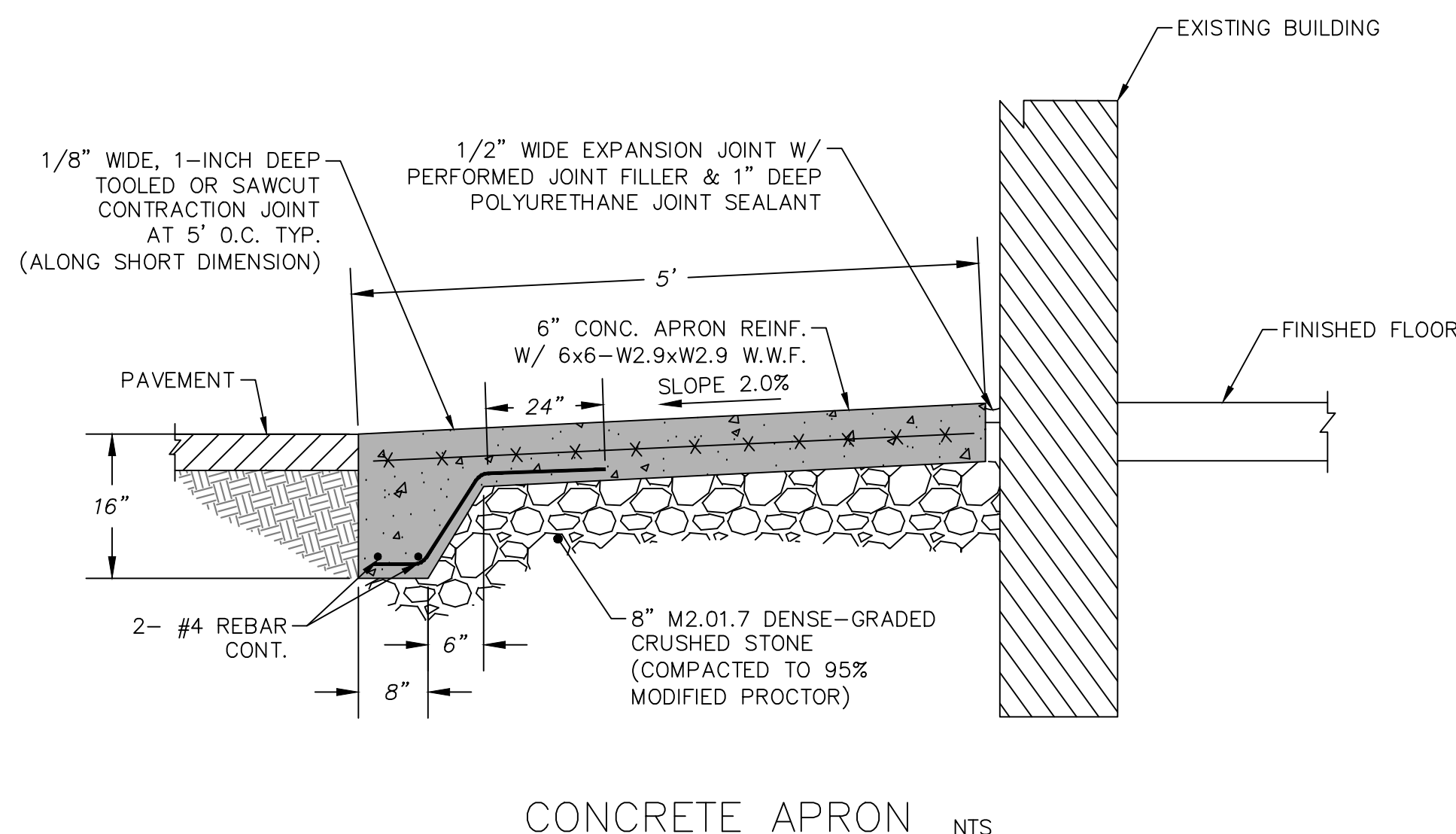
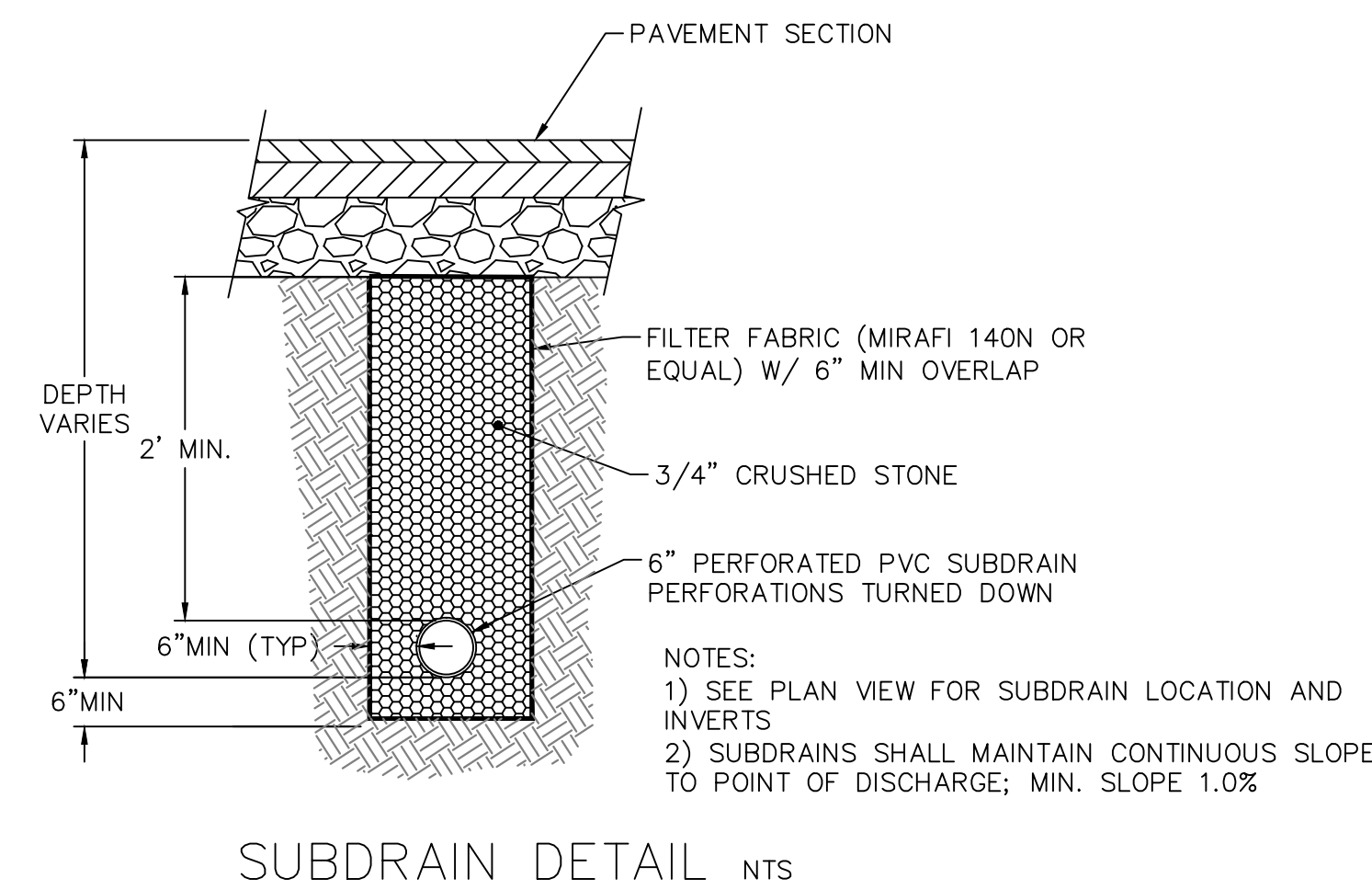


PAVEMENT SECTION - RAMP AND APRON NTS

MANHOLE COVER ADJUSTMENT NTS

STRAW WATTLE NTS

CATCH BASIN SEDIMENT BAG NTS



SUBDRAIN DETAIL NTS

CONCRETE APRON NTS

CATCH BASIN MODIFICATION NTS

NO.	DATE	BY	DESCRIPTION	REVISIONS
1	8/28/19	DRB	ISSUED FOR CONSTRUCTION	