



Gordon R. Archibald, Inc.
Civil and Environmental Engineers

June 24, 2019

Boston Conservation Commission
C/O Amelia Croteau, Executive Secretary
1 City Hall Square, Room 709
Boston, MA 02201

Subject: United States Postal Service - Boston VMF
135 A Street
Boston, Massachusetts 02210
Pavement Improvements (USPS Project Number B71689)
Massachusetts Wetlands Protection Act – Request for Determination of Applicability

Dear Commission Members:

The United States Postal Service (USPS) is proposing to conduct pavement improvements (resurfacing of existing parking lots and laneways) at its Boston Vehicle Maintenance Facility (VMF), located at the above-referenced address. On behalf of the USPS and in accordance with the Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00 / M.G.L. c. 131, §40), Gordon R. Archibald, Inc. (GRA) is hereby submitting a *Request for Determination of Applicability* (RDA) to the Boston Conservation Commission for review. The following materials constitute the RDA submission:

- One (1) original and two (2) copies of the signed Request for Determination of Applicability (WPA Form 1);
- One (1) full-size copy and two (2) reduced-size (11”x17”) copies of the 30% Project Plans (10 Sheets) dated 6-24-19; and
- Two (2) copies of the *Project Description* report, including maps, photographs, and other supporting documentation.

Concurrent with this submission, one (1) complete set of the application materials listed above has been transmitted to the MassDEP Northeast Region Office in accordance with filing requirements.

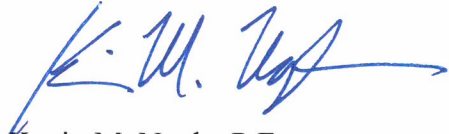
June 24, 2019

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We trust that this submission package is complete for consideration during the next scheduled Conservation Commission meeting date of July 10, 2019. Should you have any questions or require additional information, please call us at your earliest convenience.

Sincerely,

GORDON R. ARCHIBALD, INC.

A handwritten signature in blue ink, appearing to read "K. M. Nagle", with a long horizontal flourish extending to the right.

Kevin M. Nagle, P.E.
Senior Civil Engineer

cc: MassDEP Northeast Region Office, Wilmington, MA (w/ enclosures)
Christopher DeFilippo, McKinnell, McKinnell & Taylor, Inc. (w/ enclosures)
Steven D. Overko, USPS Facilities (w/ enclosures)



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Boston
City/Town

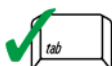
WPA Form 1- Request for Determination of Applicability

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:

USPS Facilities - Northeast Repairs & Alterations

Name

Steven.D.Overko@usps.gov

E-Mail Address

955 Goffs Falls Road

Mailing Address

Manchester

City/Town

NH

State

03103-9997

Zip Code

603-644-4176

Phone Number

Fax Number (if applicable)

2. Representative (if any):

Gordon R. Archibald, Inc.

Firm

Todd Ravenelle, P.E.

Contact Name

travenelle@graengs.com

E-Mail Address

200 Main Street

Mailing Address

Pawtucket

City/Town

RI

State

02860

Zip Code

401-726-4084

Phone Number

401-728-1533

Fax Number (if applicable)

B. Determinations

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

- 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:

City of Boston

Name of Municipality

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



WPA Form 1- Request for Determination of Applicability

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

C. Project Description

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

<u>135 A Street</u>	<u>Boston</u>
Street Address	City/Town
<u>N/A</u>	<u>0602760000 & 0602749100</u>
Assessors Map/Plat Number	Parcel/Lot Number

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

U.S. Postal Service maintenance facility - vehicle parking areas and access aisles (see attached Project Description)

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

<u>Pavement Improvements, Boston VMF, 135 A Street, Boston, MA 02210, 30% Submission</u>	<u>6-24-2019</u>
	Date
<u>Prepared by McKinnell McKinnell & Taylor Inc. and</u>	
Title	Date
<u>Gordon R. Archibald, Inc.(10 sheets)</u>	
Title	Date

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

Resurfacing and restriping of postal vehicle parking areas (see attached Project Description)



WPA Form 1- Request for Determination of Applicability

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

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).

The nature and scope project activities on USPS property are materially identical to the repair/resurfacing/reclamation of existing roadways within the right-of-way, which is considered to be a "minor activity" under 310 CMR 10.02(2)(b)2.

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.)

N/A



WPA Form 1- Request for Determination of Applicability

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

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:

USPS Facilities - Northeast Repairs & Alterations C/O Steven D. Overko, Architect/Engineer

Name

955 Goffs Falls Road

Mailing Address

Manchester

City/Town

NH

State

03103-9997

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.

Digitally signed by Steven D Overko
Date: 2019.06.17 10:49:30 -04'00'

6/17/19

Signature of Applicant

Date

Signature of Representative (if any)

6/24/19

Date

BOSTON CONSERVATION COMMISSION
AND THE
MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION

MASSACHUSETTS WETLANDS PROTECTION ACT
REQUEST FOR DETERMINATION OF APPLICABILITY

PROJECT DESCRIPTION

FOR PROPOSED

PAVEMENT IMPROVEMENTS

AT THE

UNITED STATES POSTAL SERVICE
Boston VMF
135 A Street
Boston, Massachusetts 02210

Prepared by:

GORDON R. ARCHIBALD, INC.
200 Main Street
Pawtucket, RI 02860

June 2019



Gordon R. Archibald, Inc.
Civil and Environmental Engineers

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ATTACHMENTS

- A. Project Location Map (USGS, 1" = 1,500')
- B. Vicinity Map (1" = 400')
- C. FEMA Flood Hazard Zone Map (FIRMette)

APPLICATION MATERIALS BOUND SEPARATELY

- MassDEP WPA Form 1 – Request for Determination of Applicability
- Site Plans: *Pavement Improvements, Boston VMF, 135 A Street, Boston, Massachusetts 02210, 30% Submission* prepared for the United States Postal Service Facilities Service Office by McKinnell, McKinnell, & Taylor Inc. and Gordon R. Archibald, Inc., 6-24-2019 (10 sheets)

F:\FILES\WORDPRO\1816 - USPS - Boston VMFWetlands RDA\Project Description for RDA June 2019.doc

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1. Project Purpose and Description

The United States Postal Service (USPS, Owner and Applicant) is proposing to conduct pavement resurfacing operations at its Boston Vehicle Maintenance Facility (VMF), located at 135 A Street in the City of Boston, Massachusetts. The location of the existing facility in the South Boston area is shown on the Project Location Map provided as Attachment A to this report.

The purpose of the proposed project is to restore the asphalt paved surfaces surrounding the VMF facility to a state of good repair. Due to the age and deteriorated condition of pavements within the parking areas flanking the VMF building, the USPS is proposing to resurface these lots with new bituminous asphalt base and surface courses, including full-depth pavement reclamation, trimming and fine grading, adjustment of drainage and other utility structures to grade, and pavement striping. No changes to the impervious surface cover of the site are proposed, and all existing drainage patterns will be maintained under post-development conditions.

As the area of the proposed work is in the general vicinity of Boston Harbor, it is understood that Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00) may be applicable to the proposed project. Accordingly, Gordon R. Archibald, Inc. (GRA) is submitting herewith a Request for Determination of Applicability (RDA) to the Boston Conservation Commission on behalf of the USPS. Full- and reduced-scale site plans depicting the proposed work are provided along with the signed application, this Project Description, and other required documentation. Given the project's location, the limited nature of the work, and negligible potential for adverse impacts to natural resources, it is requested that the Boston Conservation Commission issue a Negative Determination so that the Applicant may proceed with the proposed project.

2. Existing Conditions

The Boston VMF is situated in a largely commercial/industrial area within the Fort Point District of South Boston, just south of the Interstate Route 90 (I-90) tunnel under Boston Harbor and to the immediate west of the Boston Convention and Exhibition Center (see attached Vicinity Map). The VMF property is accessed via a gated entrance off Medallion Avenue and is bound by chain link fencing around its entire perimeter, nearly all of which is protected by vehicular guardrail. As postal vehicle maintenance activities are contained to the service bays of the VMF building, use of paved areas around the facility is limited to vehicular access and parking of postal and employee vehicles (see Photos 1-4 below). The condition of these existing pavements currently ranges from fair to poor, with asphalt surfaces characterized by cracking, potholes, and spot patch applications.

An ancillary USPS parking lot (bound by A Street to the west, West Service Road Connector to the east, and Wormwood Street to the south) is also actively used at this location but is not part of the subject pavement resurfacing project. While previously accessible via the laneway that runs around the south side of the VMF, this lot is now separated from the VMF site by concrete barriers placed to block access.



Photo 1 – Medallion Avenue entrance looking west from inside VMF Lot (GRA Photo)

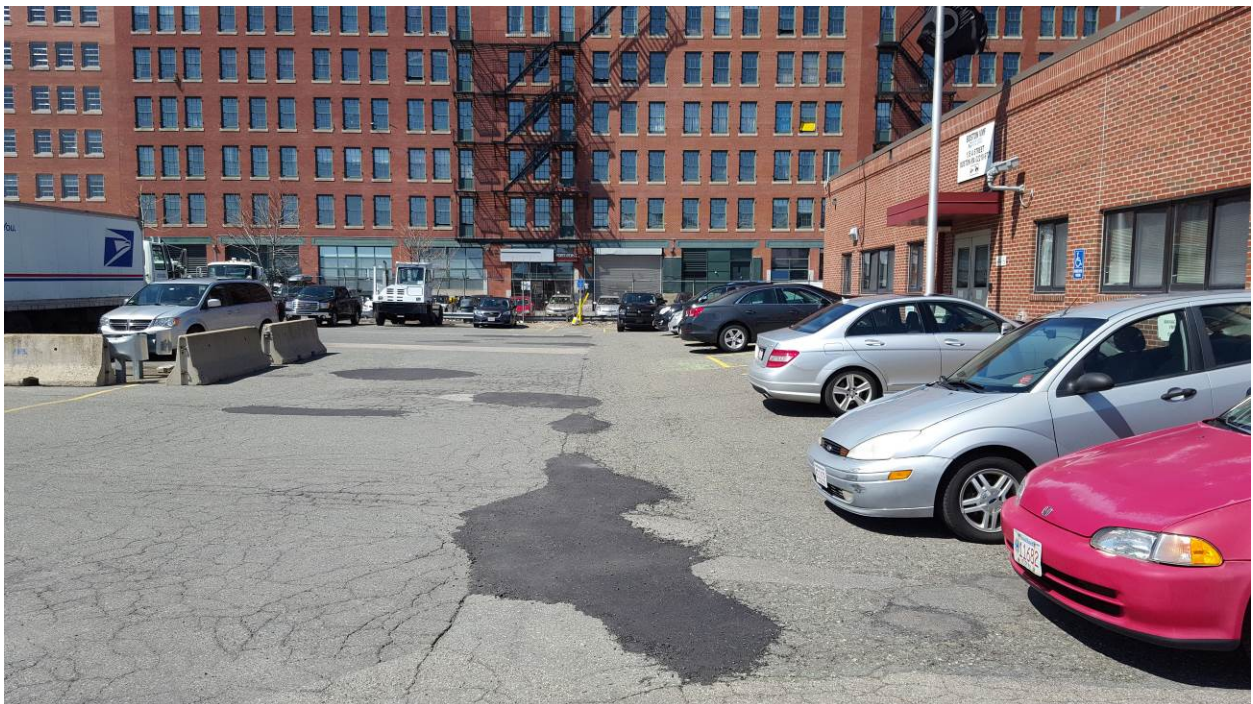


Photo 2 – Pavement conditions at front (southeasterly) entrance to VMF Building looking northwest (GRA Photo)



Photo 3 – Parking and maintenance bay doors along southeasterly side of VMF building looking northeast, with access laneway at right (GRA photo)



Photo 4 – Access laneway along southeasterly side of VMF looking southwest (GRA photo)

Through a review of available geospatial data for the project area (MassGIS, City of Boston), there are no freshwater or coastal wetland features in the immediate vicinity of the proposed project. The nearest coastal feature – Fort Point Channel – is approximately 1,000 feet northwest of the VMF. The entire project area is however located within the 100-year (1% annual chance, Zone AE) flood hazard area established by the Federal Emergency Management Agency (FEMA) – see Attachment C for mapping excerpt.

The paved VMF lots are served by legacy closed drainage systems that collect and convey site runoff off-site. Based on a review of record plans and collected survey data, collected stormwater is released via a storm main that exits the property at the intersection of Medallion Avenue and Binford Street, whereupon flows are presumed to enter the municipal drainage system, continue north/northwest along Binford Street, and release to Fort Point Channel. The USPS currently cleans and maintains existing drainage structures within the VMF property.

3. Proposed Action

Depicted on the attached site plans, the USPS is proposing to resurface approximately 24,000 square yards of existing bituminous pavements at the VMF site, along with removal and replacement of existing reinforced concrete pads. This work will include establishing proper erosion and sediment controls (including installation of inlet protection devices), removal of existing pavements by full-depth reclamation, and placement (including fine grading and compaction) of new hot mix asphalt (HMA) pavement base and surface courses. In addition to the above, existing catch basin inlets will be adjusted to finish grade, cleaned, and retrofitted with oil/debris separator hoods (“Snout” type with bio-skirt) on the outlet pipe.

There will be no change in the area of impervious surface cover upon completion of the project, as the extents of resurfacing will be limited to existing paved surfaces. The new pavement surface will be smooth-finished to match existing grades and all existing drainage structures will remain in place. Consequently, no material changes to existing drainage patterns or runoff flow rates/volumes will occur as a result of the proposed work. Based on the limited nature and scope of proposed activities, as well as the retrofit improvements that will be installed in drainage inlets across the site, it is understood that MassDEP Stormwater Management Standards for new development are not applicable to the proposed work. Furthermore, as there will be no material changes in grade across the site (no cutting or filling), construction of the proposed pavement improvements will not affect the depths or extents of flood hazard areas.

Since the proposed project involves construction-phase activities with the potential to mobilize pollutants and sediments, appropriate best management practices will be implemented prior to the commencement of work and will be maintained for the duration of construction. All inlets will be provided with filter fabric inlet protection devices, consisting of filter bag inserts (“Silt Sack” or approved equal, see details) installed in all catch basins that receiving runoff from the area to be resurfaced. In the execution of the work, the contractor will be required to adhere to all applicable best management practices as set forth in the latest edition of the *Massachusetts Erosion and Sediment Control Guidelines for Urban and Suburban Areas* (MA Executive Office of Environmental Affairs, 1997/2003), as well as the erosion and sediment control notes included on the site plans.

4. Anticipated Impacts & Regulatory Applicability

By its nature and location, the proposed project will have negligible potential for impacts to resources regulated under the Massachusetts Wetlands Protection Act, particularly as all work all work will occur over an existing developed area (with no change in impervious cover) that is over 1,000 feet from the nearest natural coastal resource area. Furthermore, the project and its constituent activities are tantamount to the repair/resurfacing/reclamation of existing roadways within the right-of-way, which is considered to be a “minor activity” under the current Wetlands Protection Act Regulations (310 CMR 10.02(2)(b)2).

Consistent with the above-referenced section of the Regulations, all work will be performed “...in a manner so as to reduce the potential for any adverse impacts to the resource area during construction, and with post-construction measures implemented to stabilize any disturbed areas.” Proper construction-phase erosion and sediment controls will be installed and maintained for the duration of the project, protecting closed drainage systems and receiving waters from potential short-term impacts. In full consideration of the above, it is requested that the Boston Conservation Commission issue a Negative Determination so that the USPS may complete the proposed pavement improvements at the Boston VMF.

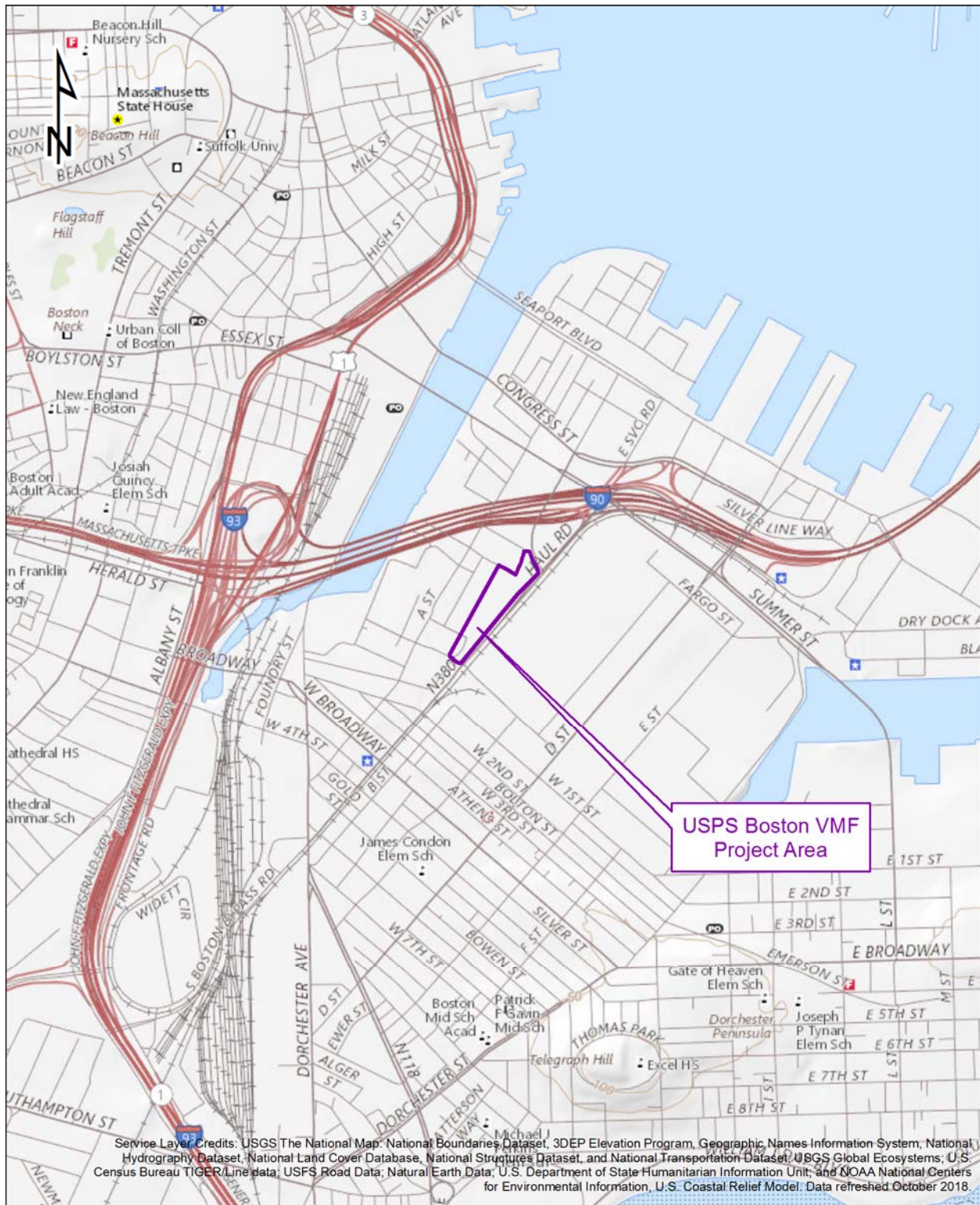
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Attachments:

- A. Project Location Map (USGS, 1" = 1,500')**
- B. Vicinity Map (1" = 400')**
- C. FEMA Flood Hazard Zone Map (FIRMette)**

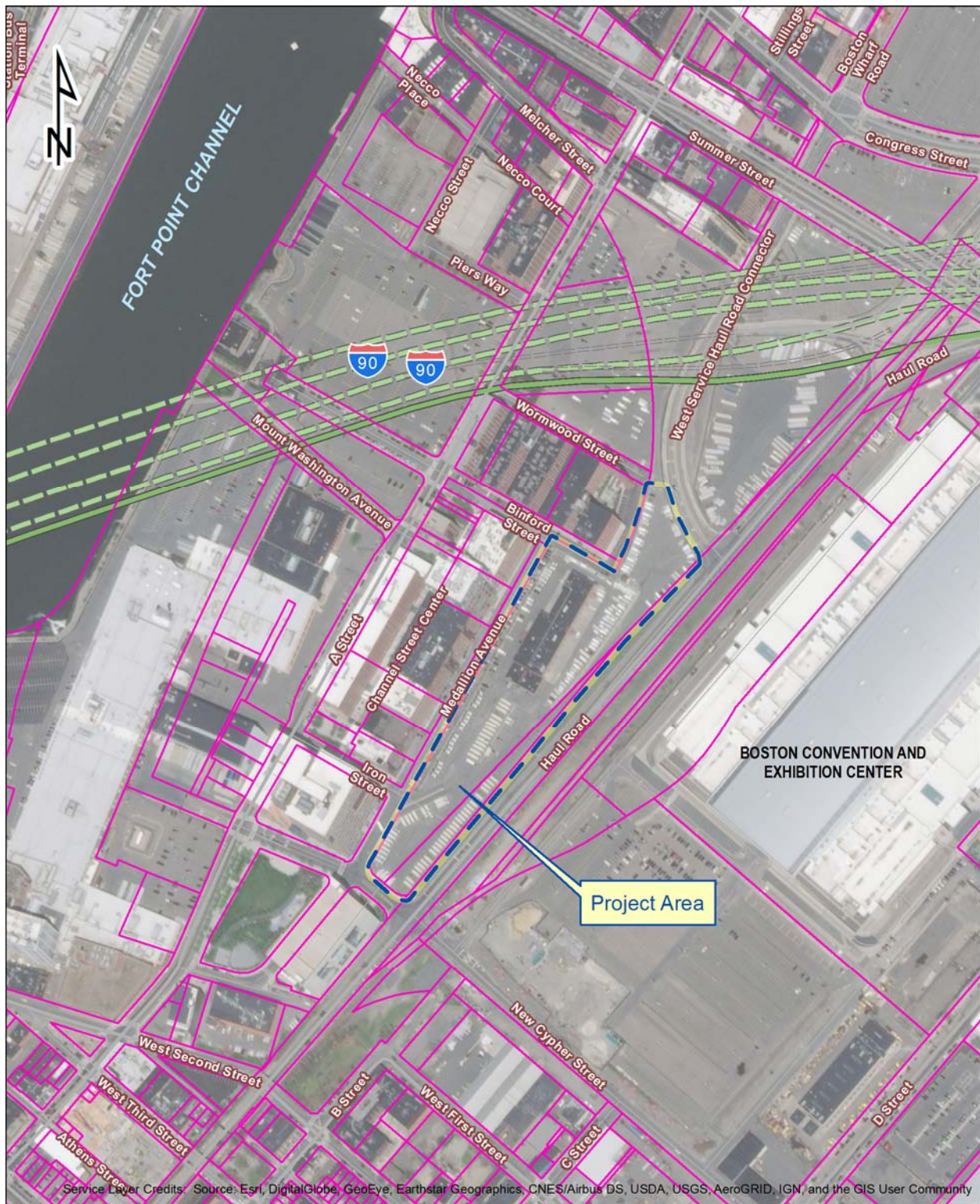
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A. Project Location Map

Scale: 1" = 1,500' • Sources: USGS National Map Service, MassGIS

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B. Vicinity Map

Scale: 1" = 400' • Sources: BostonMaps Open Data (parcel lines - magenta), MassGIS • Note: project area is generalized, see site plans for pavement resurfacing limits

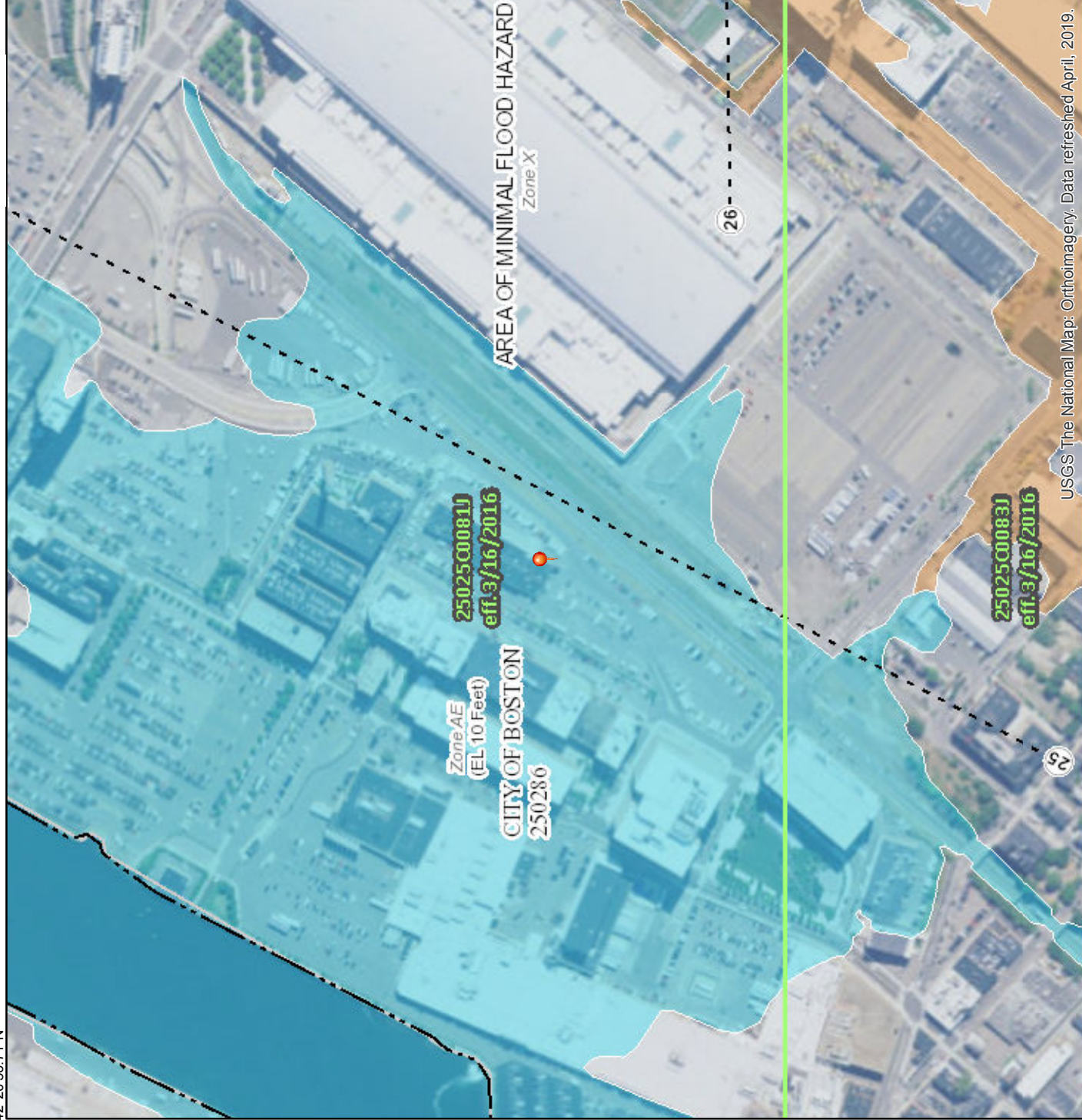
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National Flood Hazard Layer FIRMette



42°20'56.71"N

71°3'19.16"W



USGS The National Map: Orthoimagery. Data refreshed April, 2019.
42°20'30.12"N
71°24'17.0"W

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS

- Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

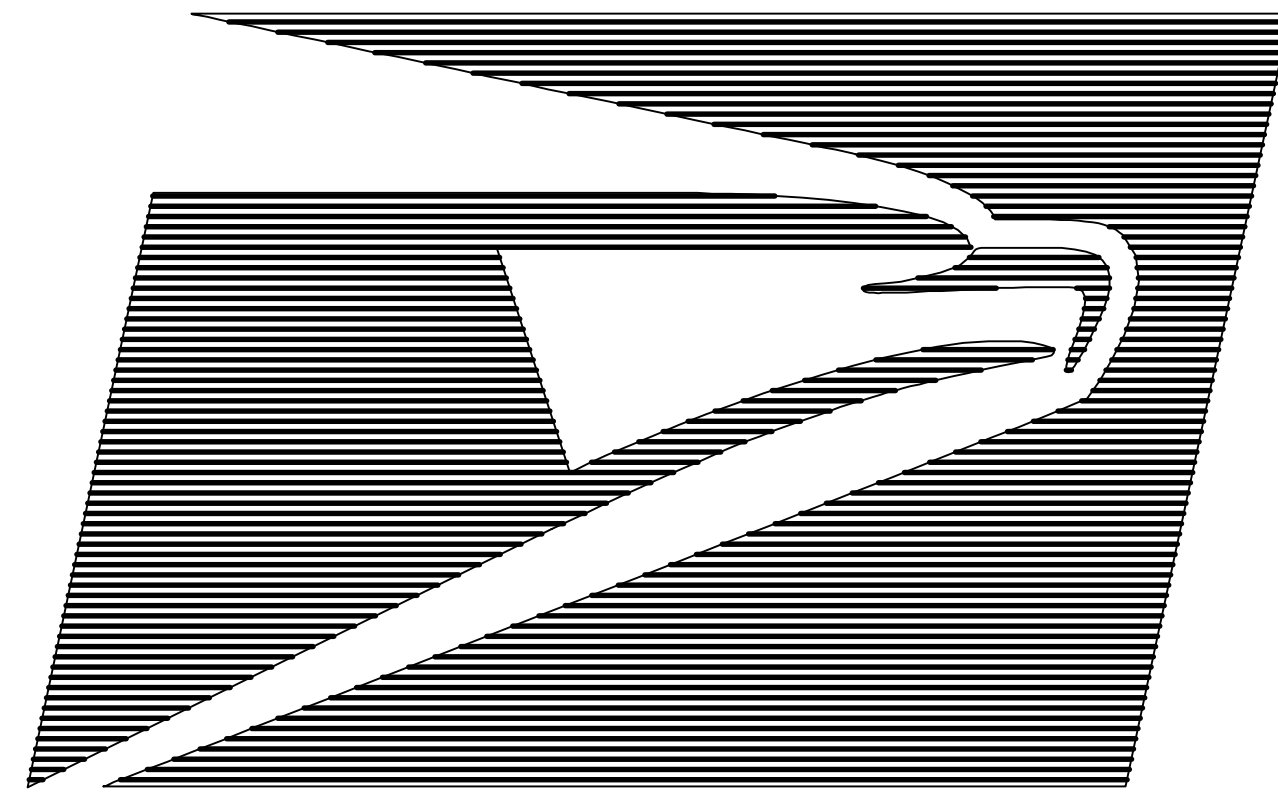
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **6/18/2019 at 8:18:57 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

PAVEMENT IMPROVEMENTS

VEHICLE MAINTENANCE FACILITY
135 A STREET
BOSTON, MA 02210-9998



UNITED STATES POSTAL SERVICE®

FACILITIES - NORTHEAST R&A
6 GRIFFIN ROAD
WINDSOR, CT 06006 - 0300

A/E FIRM

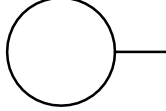
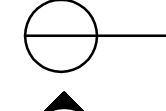
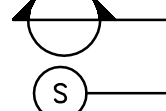
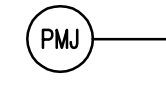

**McKINNELL
& McKINNELL
& TAYLOR Inc.**

ARCHITECTS • ENGINEERS • PLANNERS
POST OFFICE BOX 336
164 WASHINGTON STREET
NORWELL, MA 02061
PHONE: (781) 878-6223
FAX: (781) 878-8920

GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE U.S.P.S TO MAINTAIN CUSTOMER ACCESS AT ALL TIMES.
2. ALL WORK BEING PERFORMED SHALL NOT IN ANY WAY INTERFERE WITH THE REGULAR OPERATION OF THE U.S.P.S. FACILITY. SECURITY SHALL BE MAINTAINED AT ALL TIMES.
3. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FACILITY FOR ACCESS TO AND FROM THE FACILITY.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE BEGINNING ANY WORK OR PURCHASING ANY MATERIAL OR EQUIPMENT.
5. THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS BEFORE SUBMITTING THEIR OFFER. NO EXTRA WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THE ABOVE.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER OF ANY EXISTING CONDITION DISCOVERED DURING DEMOLITION THAT WILL INTERFERE WITH THE NEW WORK.

LEGEND

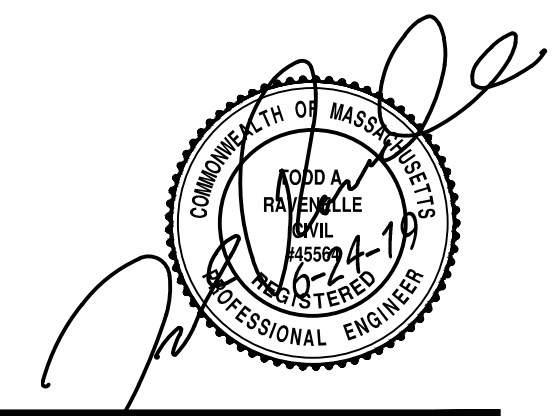
-  SHEET LOCATION MARK
-  DETAIL MARK
-  SECTION MARK
-  SEALANT
-  PREMOLDED JOINT FILLER

ABBREVIATIONS

&	AND	MATL.	MATERIAL
⊙	AT	MAX.	MAXIMUM
DIA	DIAMETER	MFGR.	MANUFACTURER
AFF	ABOVE FINISHED FLOOR	MIN.	MINIMUM
ALUM	ALUMINUM	M.O.	MASONRY OPENING
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MOD	MODIFIED
APPROX.	APPROXIMATE, APPROXIMATELY	MTD	MOUNTED
B.O.	BOTTOM OF	MTL.	METAL
BD.	BOARD	NO.	NUMBER
BRG.	BEARING	N/A	NOT APPLICABLE
CCTV	CLOSED-CIRCUIT TELEVISION	O.C.	ON CENTER
C	CENTERLINE	O.D.	OUTSIDE DIAMETER
CLG.	CEILING	OPP.	OPPOSITE
CLR.	CLEAR	P. LAM.	PLASTIC LAMINATE
CMU	CONCRETE MASONRY UNIT	PART.	PARTITION, PARTIAL
COL.	COLUMN	PBSM	POSTAGE BOOKLET STAMP MACHINE
COLS.	COLUMNS	PLYWD.	PLYWOOD
CONC.	CONCRETE	P.O.	POST OFFICE
CONT.	CONTINUOUS	P.O.S.	POINT OF SALE
C.O.	CONTRACTING OFFICER	PTD	PAINTED
D.S.	DOWNSPOUT	PL	PLATE
DIA.	DIAMETER	RECEP.	RECEPTACLE
DISP.	DISPLAY OR DISPENSER	REF.	REFER, REFERENCE
DTL.	DETAIL	REQ'D	REQUIRED
E.W.C.	ELECTRICAL WATER COOLER	R.O.	ROUGH OPENING
ELEC.	ELECTRIC, ELECTRICAL	SQ. FT.	SQUARE FEET
EQ.	EQUAL	SQ. IN.	SQUARE INCHES
EXP	EXPANSION	SCW	SOLID CORE WOOD
EXT.	EXTERIOR	S.S.	STAINLESS STEEL
F.E.	FIRE EXTINGUISHER	SHT.	SHEET
FF	FACTORY FINISH	SHTS.	SHEETS
FIN.	FINISH(ED)	SIM.	SIMILAR
F.O.	FACE OF	SPECS	SPECIFICATIONS
GA.	GAUGE	STL.	STEEL
G.C.	GENERAL CONTRACTOR	T & G	TONGUE AND GROOVE
GYP.	GYP-SUM	TELE.	TELEPHONE
H	HIGH	THICK	THICKNESS
HB.	HOSE BIBB	THRESH	THRESHOLD
HDW	HARDWARE	T.O.	TOP OF
HGT.	HEIGHT	TYP	TYPICAL
HM	HOLLOW METAL	U.O.N.	UNLESS OTHERWISE NOTED
HT.	HEIGHT	USPS	UNITED STATES POSTAL SERVICE
I.D.	INSIDE DIAMETER	VCT	VINYL COMPOSITION TILE
i.e.	THAT IS	VIF	VERIFY IN FIELD
INSUL.	INSULATION	W	WIDE
INT	INTERIOR	W/	WITH
IRT	INTEGRATED RETAIL TERMINAL	WD	WOOD
JAN.	JANITOR	WF	WELDED WIRE FABRIC
JT.	JOINT		
LB	POUND		

INDEX OF DRAWINGS

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C1.06	GRADING & DRAINAGE PLAN 2
C1.07	NOTES AND LEGEND
C1.08	DETAILS 1
C1.09	DETAILS 2



Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

ARCHITECTS-ENGINEERS-PLANNERS
POST OFFICE BOX 336
135 A STREET
NORWELL, MA 02061
PHONE: (781) 878-6223
FAX: (781) 878-8920

30% SUBMISSION
(NOT FOR CONSTRUCTION)
06-24-19

PAVEMENT IMPROVEMENTS
VEHICLE MAINTENANCE FACILITY
135 A STREET
BOSTON, MA 02210-9998

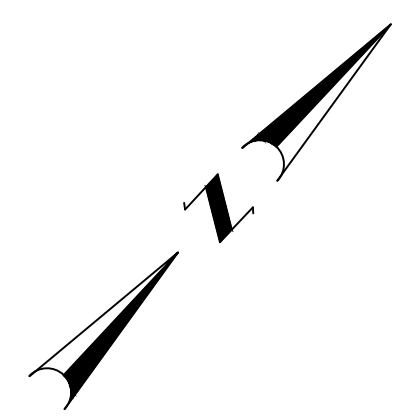
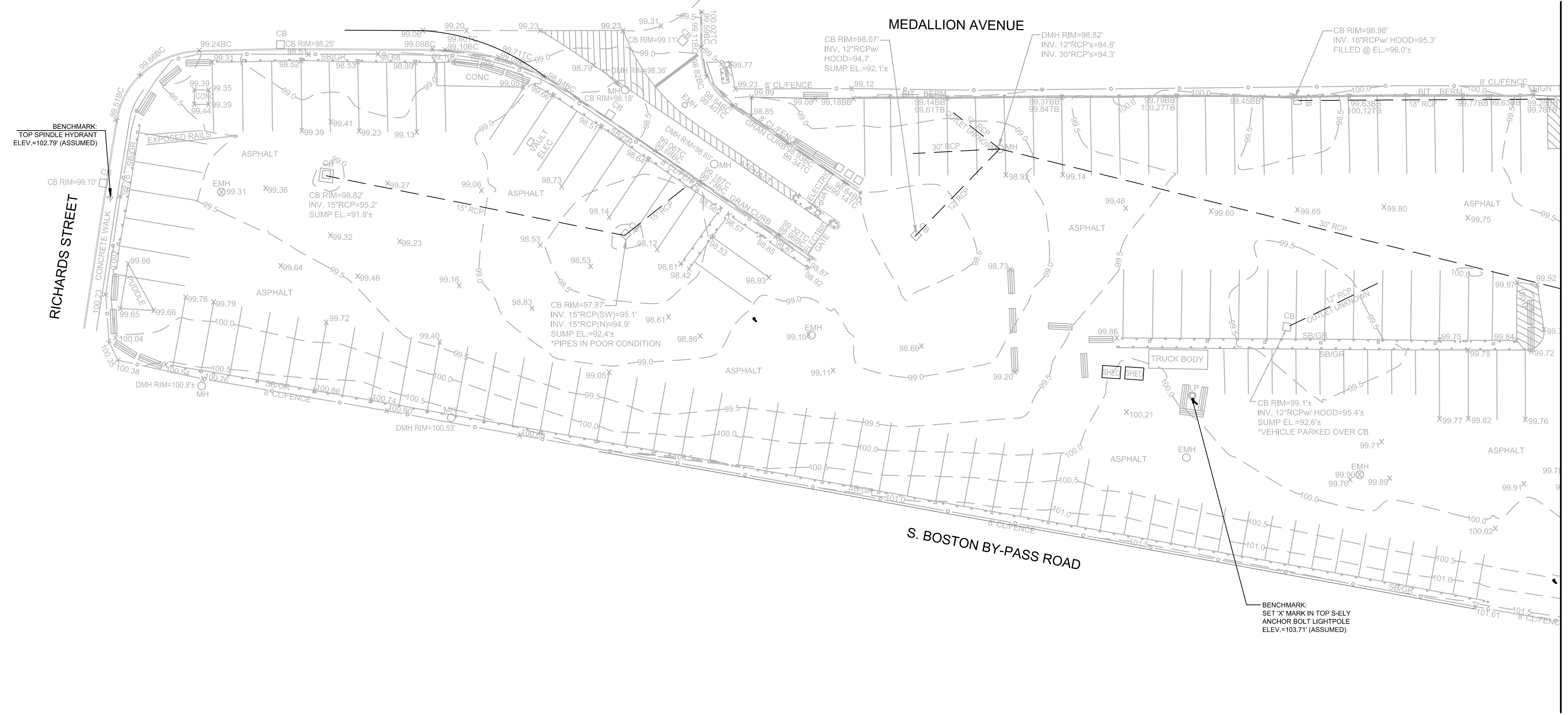
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T1.01 TITLE SHEET
SCALE: AS NOTED DATE: 6-3-19
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Windsor Facilities Service Office, 6 Griffin Road North, Windsor, CT 06006-0300

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LEGEND

	EXISTING CONCRETE BARRIER
	EXISTING 8' HIGH CHAIN LINK FENCE
	EXISTING STEEL BEAM GUARDRAIL
	EXISTING CONTOUR
	EXISTING ELECTRIC PEDESTAL
	EXISTING DRAINAGE PIPE

MATCH TO EXISTING CONDITIONS PLAN 2



GRI Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

C1.01 EXISTING CONDITIONS PLAN 1

SCALE: 1" = 30'
DATE: 6-3-19
REVISIONS:
A/E PROJECT NO.: 871689
USPS PROJECT NO.: 17036.00

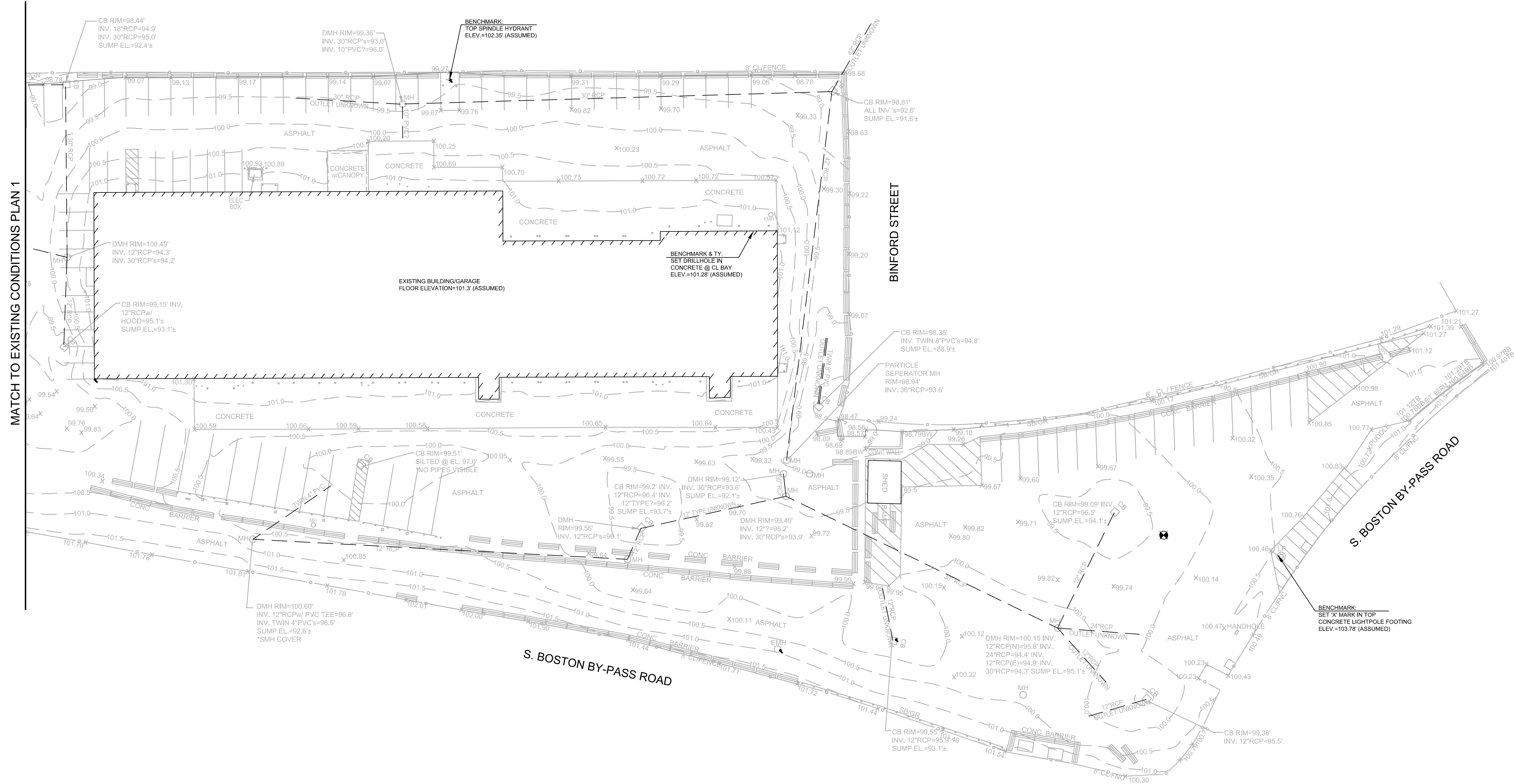


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06-24-19

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& TAYLOR Inc.
ARCHITECTS-ENGINEERS-PLANNERS
POST OFFICE BOX 336
100 STATE STREET
AGRAWAY, NJ 08007
PHONE: (781) 878-6223
FAX: (781) 878-8920



LEGEND

- EXISTING CONCRETE BARRIER
- EXISTING 8' HIGH CHAIN LINK FENCE
- EXISTING STEEL BEAM GUARDRAIL
- EXISTING CONTOUR
- EXISTING ELECTRIC PEDESTAL
- EXISTING DRAINAGE PIPE

MATCH TO EXISTING CONDITIONS PLAN 1

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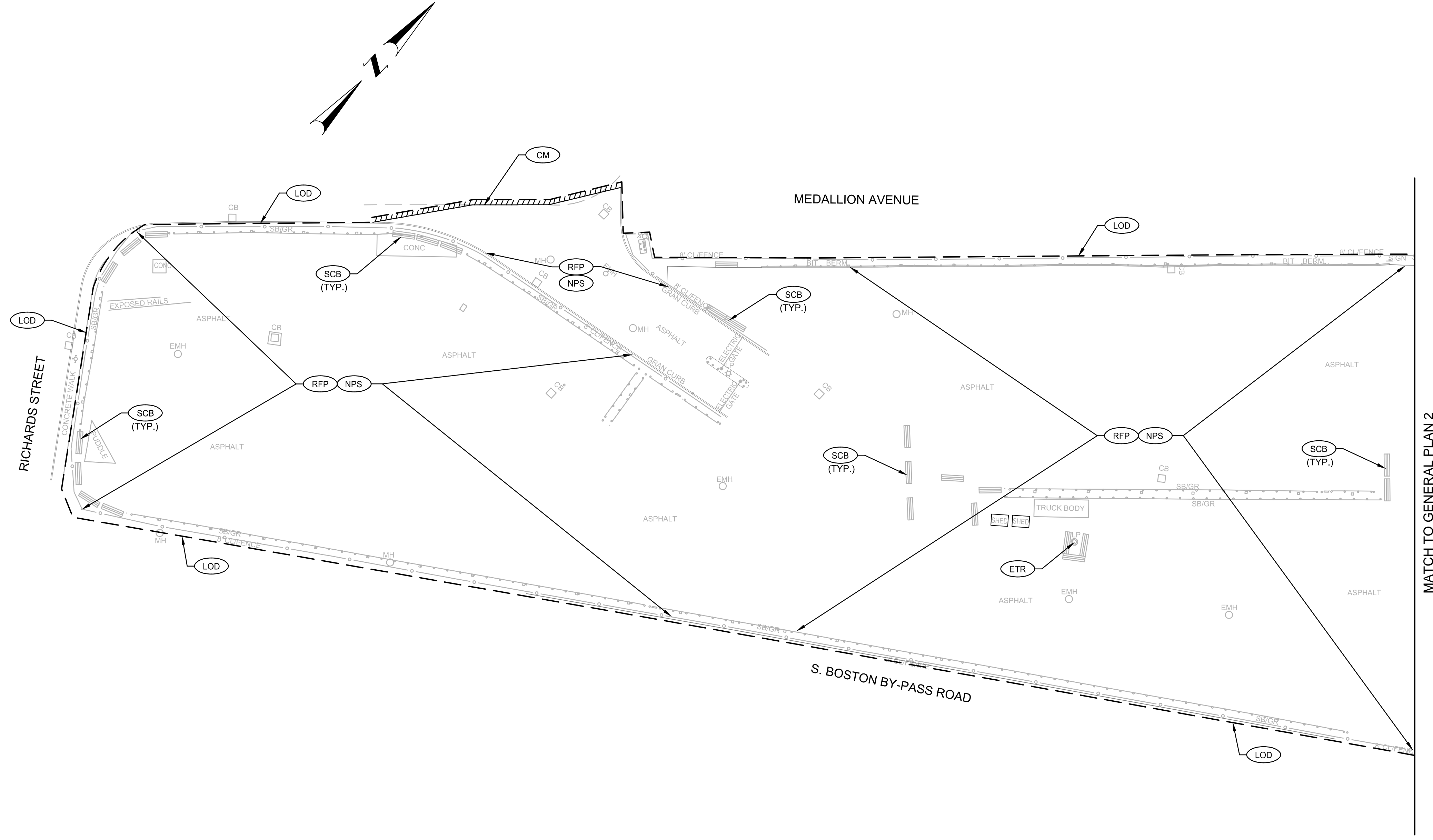


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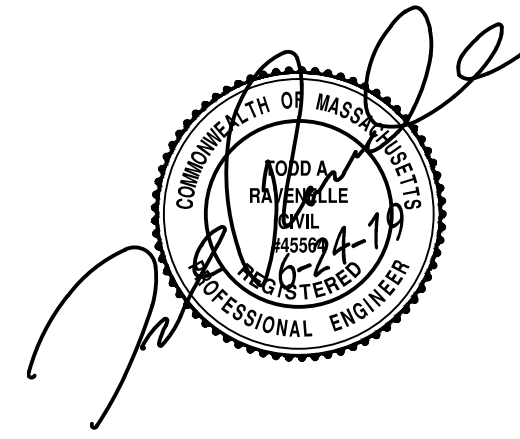
C1.02 EXISTING CONDITIONS PLAN 2
 SCALE: 1" = 30'
 DATE: 6-3-19
 REVISIONS:
 DATE:
 USFS PROJECT NO.: 17036.00



Gordon R. Archibald, Inc.
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 Pawtucket, Rhode Island



Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island



C1.03

GENERAL PLAN 1

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DATE: 6-3-19
A/E PROJECT NO.: E71689
USPS PROJECT NO.: 17036.00

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DATE:

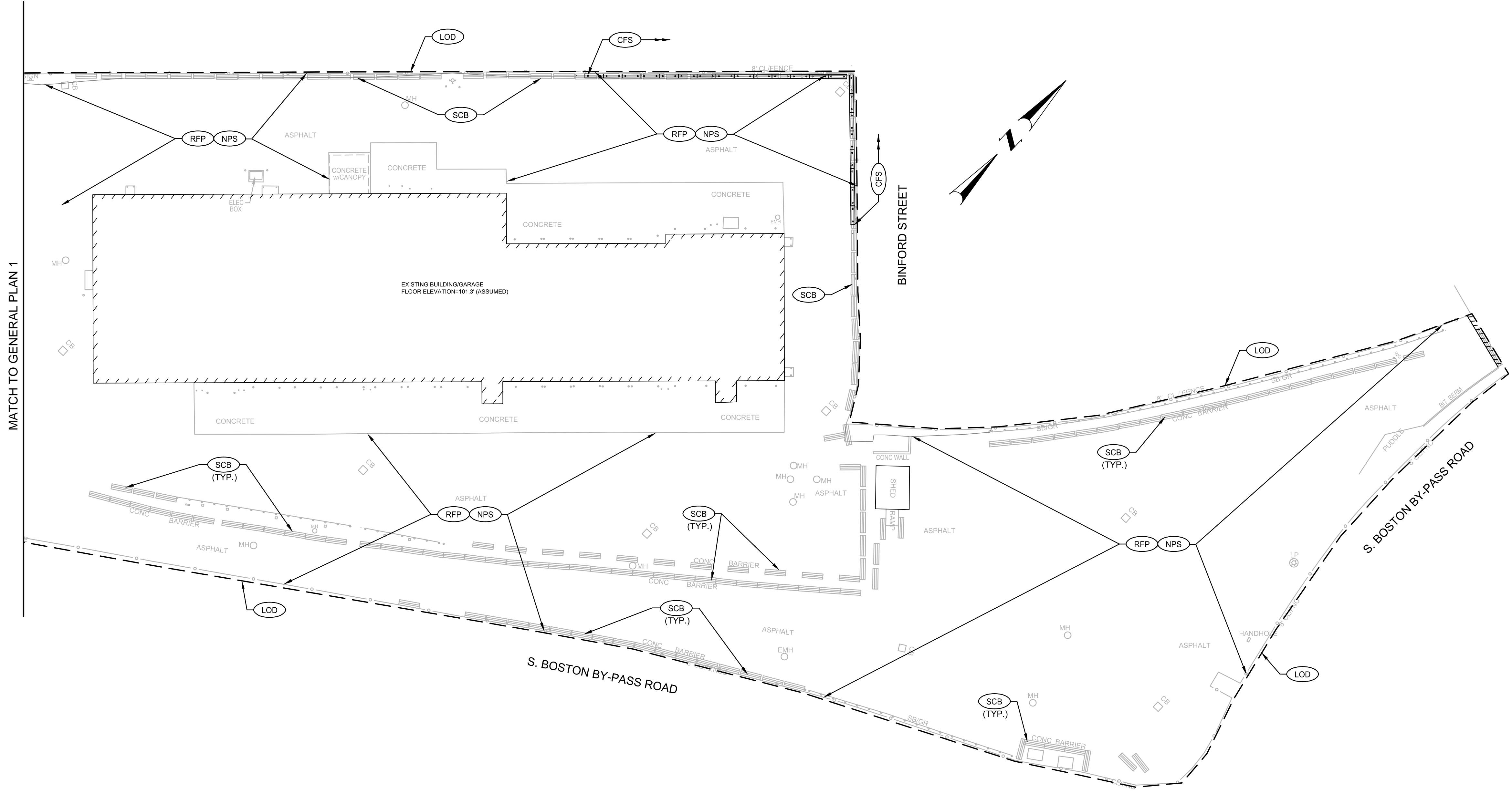


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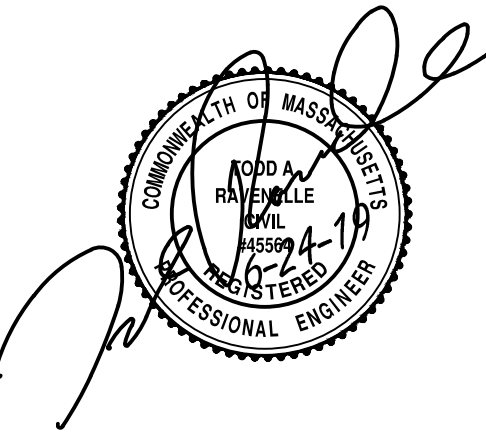
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MATCH TO GENERAL PLAN 1



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Pawtucket, Rhode Island

C1.04 GENERAL PLAN 2
SCALE: 1" = 30'
DATE: 6-3-19
REVISIONS:
A/E PROJECT NO.: B71689
USPS PROJECT NO.: 17036.00

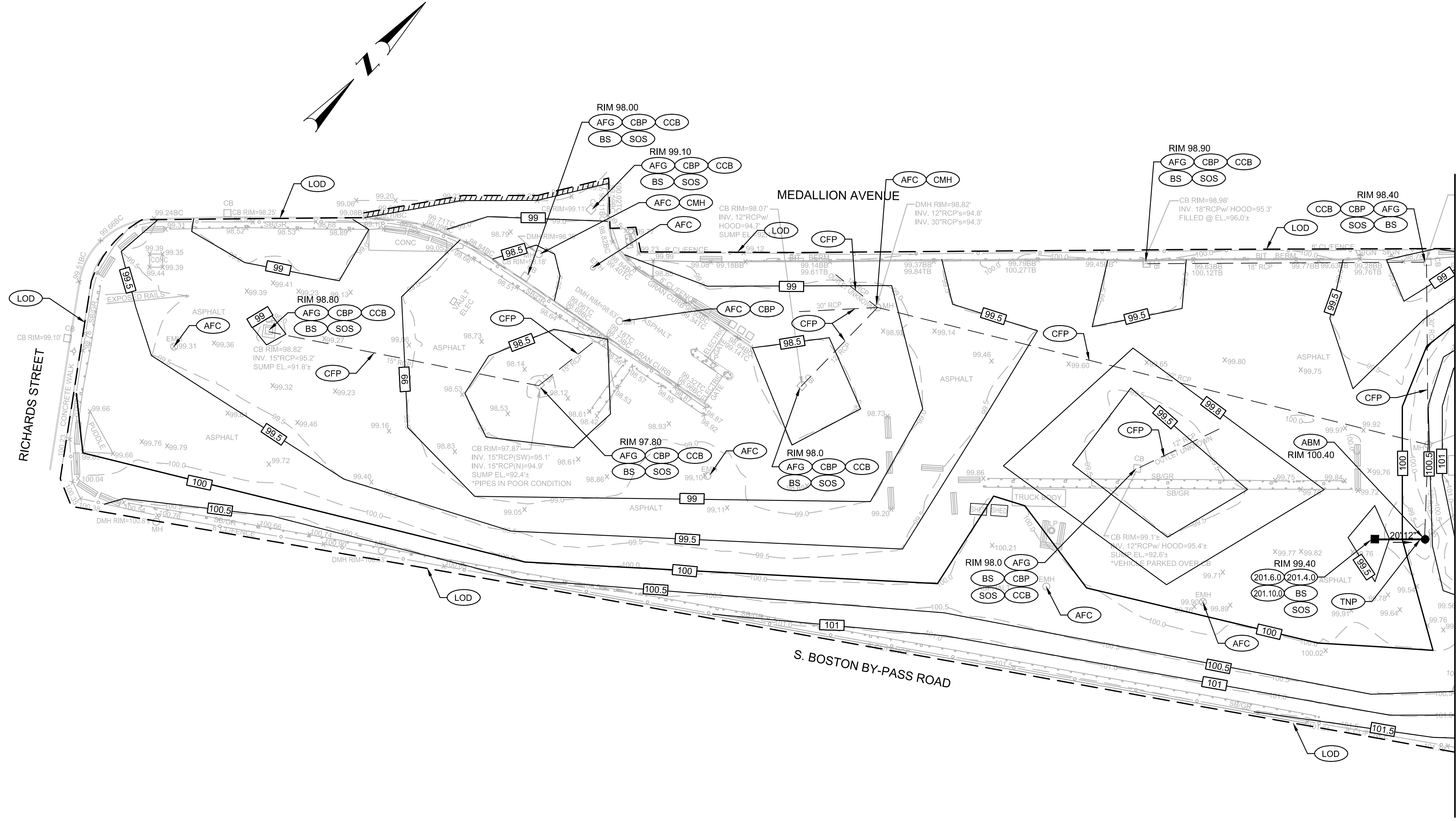


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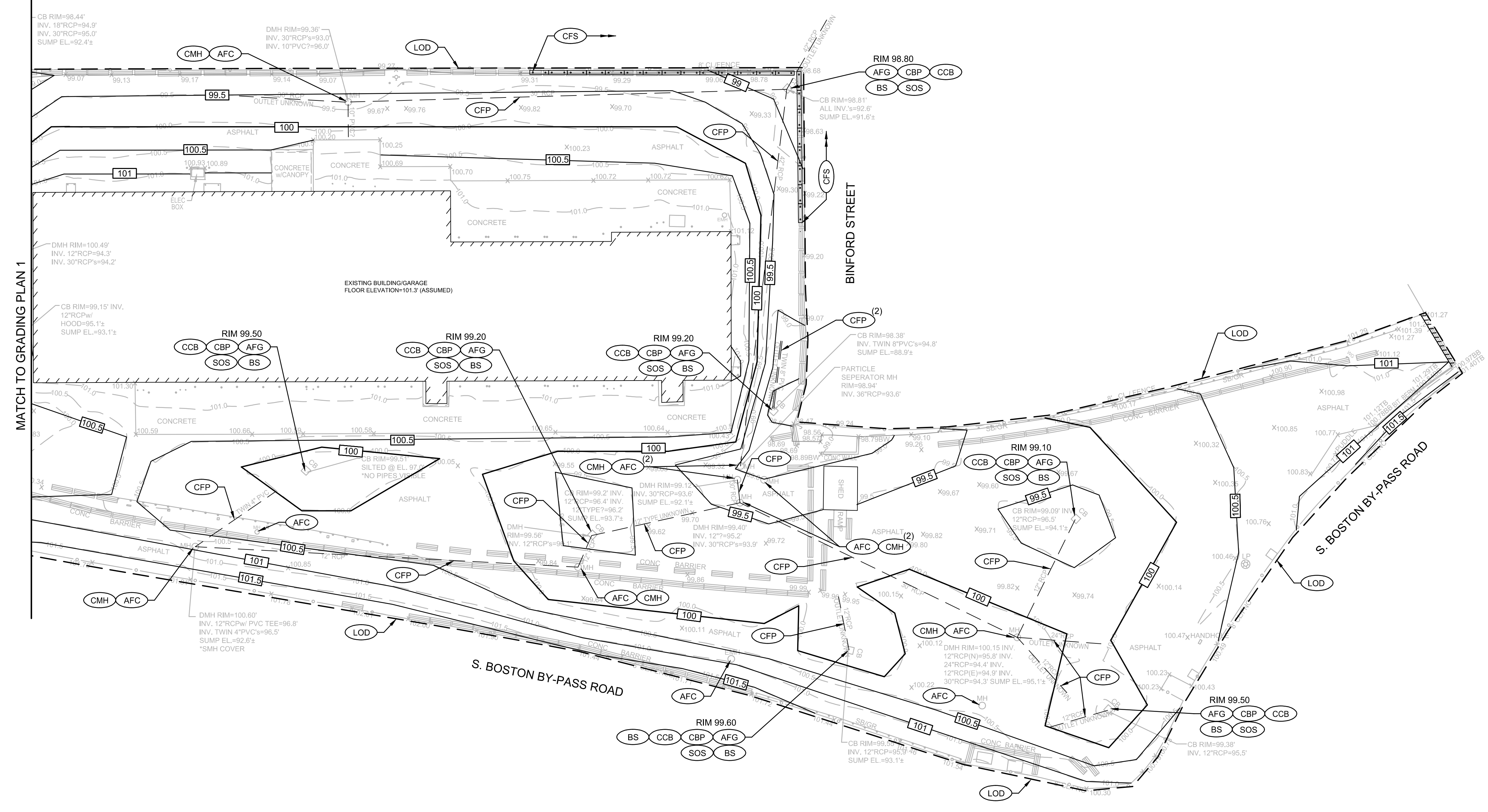
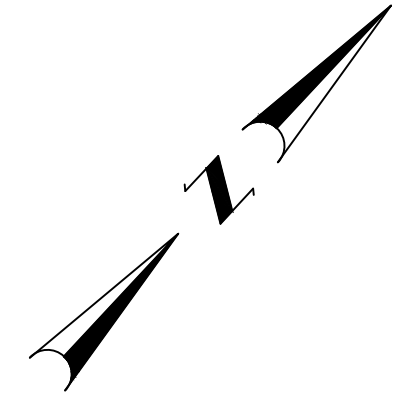
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C1.06 GRADING PLAN 2
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GENERAL NOTES

- REFERENCE IS MADE TO THE LATEST EDITIONS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MASSDOT) "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES" (1988 ENGLISH EDITION, INCLUDING ALL SUBSEQUENTLY ISSUED SUPPLEMENTAL SPECIFICATIONS) AND THE "2014 CONSTRUCTION STANDARD DETAILS" (INCLUDING ALL SUBSEQUENT REVISIONS AND SUPPLEMENTS). ALL PROJECT SITE IMPROVEMENTS SHALL CONFORM TO THE APPLICABLE STANDARDS SET FORTH IN THESE DOCUMENTS (AND THE SUB-REFERENCES INCORPORATED THEREIN) UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.
- THE PROJECT LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING (THROUGH PROVISION AND PLACEMENT OF LOAM AND SEED) ANY UNPAVED AREAS OUTSIDE OF THE PROJECT LIMITS OF DISTURBANCE IMPACTED BY CONSTRUCTION OPERATIONS. ANY REQUIRED RESTORATION OUTSIDE THE PROJECT LIMITS OF DISTURBANCE SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
- ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING CURBING, SIDEWALKS, PAVEMENTS, FENCES, OR OTHER SITE FEATURES TO REMAIN IN PLACE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCESS EXCAVATED PAVEMENTS, CURBING, SIDEWALKS, CURB STOPS, AND OTHER CONSTRUCTION WASTE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL MAINTAIN ALL EXCAVATION IN A DRY CONDITION. NO SEPARATE PAYMENT OR ALLOWANCE SHALL BE MADE FOR DEWATERING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENTS FROM DEWATERING OPERATION DISCHARGES THROUGH THE USE OF STILLING BASINS, FILTER FABRIC DEVICES, AND/OR OTHER SUITABLE MEANS AS APPROVED BY THE ENGINEER.
- FILL REQUIRED FOR EMBANKMENTS SHALL CONFORM TO THE REQUIREMENTS FOR ORDINARY BORROW SET FORTH IN SUBSECTION M1.01.0 OF THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION.
- THE CONTRACTOR SHALL PROVIDE CONTINUOUS DUST CONTROL (USING WATER AND/OR CALCIUM CHLORIDE OR OTHER APPROVED METHODS) FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS AND SURFACES OF BACK FILLED TRENCHES, IN ACCORDANCE WITH THE MASSDOT STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE ALL REQUIRED NOTICES AND COMPLY WITH ALL PERMITS, LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN AND SPECIFIED IN THE CONTRACT DOCUMENTS.
- EXISTING UTILITIES HAVE BEEN PLOTTED FROM BEST AVAILABLE DATA AND ARE APPROXIMATE ONLY. IN ACCORDANCE WITH CURRENT STATE "DIG SAFE" LAWS AND RULES, THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE SYSTEM ELEMENTS AND UTILITIES (BOTH UNDERGROUND AND OVERHEAD) BEFORE ANY EXCAVATION MAY COMMENCE. THE CONTRACTOR IS ADVISED THAT (A) NOT ALL UTILITY PROVIDERS SUBSCRIBE TO THE DIG SAFE PROGRAM, AND (B) IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL POTENTIALLY AFFECTED UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO THE COMMENCEMENT OF WORK. EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY MUNICIPAL, STATE OR FEDERAL AGENCY OR AUTHORITY HAVING JURISDICTION OVER THE WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD OR UNMARKED UTILITIES (AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY) SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- THE CONTRACTOR IS ADVISED THAT WORK UNDER EXISTING OVERHEAD UTILITIES IS REQUIRED, AND THAT MINIMUM CLEARANCES SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. THIS MAY REQUIRE SPECIAL MEANS AND METHODS IN ORDER TO PROPERLY COMPLETE THE WORK. SHOULD THE CONTRACTOR ELECT TO RELOCATE EXISTING OVERHEAD UTILITIES, THEN THE CONTRACTOR SHALL CONDUCT ALL COORDINATION WITH THE AFFECTED UTILITY COMPANIES AND BEAR ALL COSTS ASSOCIATED WITH UTILITY RELOCATIONS NOT INCLUDED IN THE CONTRACT.
- PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES WHICH ARE TO BE CONNECTED OR REMOVED. ANY VARIATION FROM THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, WHEREUPON WORK CAN COMMENCE ONLY UPON THE ENGINEER'S AUTHORIZATION.
- ALL EXISTING PIPE, SUBSURFACE STRUCTURES, PAVEMENTS, EXCESS EXCAVATED MATERIALS AND MISCELLANEOUS MATERIALS REMOVED IN THE COURSE OF UTILITY WORK (INSTALLATION OF DRAINAGE, WATER AND SEWER PIPING, ETC.) SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR AT AN OFFSITE LOCATION.
- WHERE UNDERGROUND UTILITY CROSSINGS ARE REQUIRED, AT LEAST TWO (2) TEST PITS SHALL BE DUG TO DETERMINE THE LOCATION/DEPTH AND MATERIAL OF THE EXISTING UTILITY.
- UTILITY SERVICES TO EXISTING BUILDINGS AND FACILITIES SHALL BE MAINTAINED AT ALL TIMES FOR THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL ADJUST ALL UTILITY BOXES, FRAMES, AND COVERS AS REQUIRED TO MATCH FINISH GRADE.
- THE CONTRACTOR SHALL NOTIFY DIG-SAFE AND THE OWNER A MINIMUM OF 72 HOURS PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR LOCATING ANY ON-SITE UTILITIES INCLUDING UNDERGROUND ELECTRICAL LIGHTING CONDUIT.
- ANY UTILITY TO BE ABANDONED SHALL BE CAPPED.
- FIRE HYDRANTS SHALL NOT BE REMOVED FROM SERVICE WITHOUT WRITTEN AUTHORIZATION FROM THE FIRE DEPARTMENT AND THE WATER DEPARTMENT.

EROSION AND SEDIMENT CONTROL NOTES

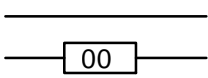
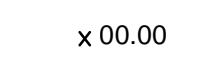
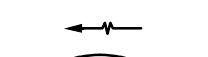













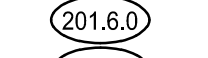
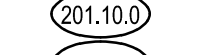
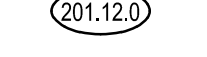

- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES TO BE EMPLOYED ON THE PROJECT ARE INDICATED ON THE PLANS. CONTROL MEASURES SHALL BE FURNISHED, INSTALLED, MAINTAINED FOR THE DURATION OF CONSTRUCTION, AND SUBSEQUENTLY REMOVED, ALL IN ACCORDANCE WITH THE MASSDOT STANDARD SPECIFICATIONS, THE LATEST EDITION OF THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION (MASSDEP) "EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS," AND ANY SITE-SPECIFIC EROSION AND SEDIMENT CONTROL / POLLUTION PREVENTION PLAN INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL CLEARING, GRADING AND EARTHWORK ACTIVITIES SHALL REMAIN STRICTLY WITHIN THE LIMITS OF DISTURBANCE (LOD) DEPICTED ON THE PLANS AND SHALL BE RESTRICTED TO ACTIVITIES NECESSARY FOR COMPLETION OF THE WORK. THE CONTRACTOR SHALL ENSURE THAT ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE REMAIN UNDISTURBED AND PROTECTED FROM CONSTRUCTION IMPACTS.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE MASSDOT STANDARD SPECIFICATIONS, THE MASSDEP EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, AND THE APPLICABLE CONDITIONS OF ANY REGULATORY/ENVIRONMENTAL PERMITS ISSUED FOR THE PROJECT.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT LOCATIONS AND AREAS SHOWN ON THE PLANS. CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS; HOWEVER NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO INSTALLATION.
- PERIMETER EROSION CONTROL BARRIERS (STAKED COMPOST FILTER SOCK, SILT FENCE, OR OTHER DEVICES AS INDICATED) SHALL BE INSTALLED IN CONTINUOUS UNINTERRUPTED RUNS AT THE LOCATIONS INDICATED ON THE PLANS AND MAINTAINED IN EFFECTIVE CONDITION UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. FOLLOWING SUCCESSFUL STABILIZATION OF DISTURBED AREAS, ALL PERIMETER EROSION CONTROL BARRIERS SHALL BE REMOVED. PRIOR TO REMOVAL OF THE DEVICES, ALL ACCUMULATED SEDIMENT AND DEBRIS TRAPPED BY THE BARRIERS SHALL BE REMOVED AND DISPOSED OF LEGALLY AT A SUITABLE OFFSITE LOCATION.
- THE TOE OF ANY FILL SLOPE IS TO REMAIN AT LEAST ONE (1) FOOT INSIDE OF ALL PERIMETER EROSION CONTROL BARRIERS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COVER ANY PORTION OF THE EROSION CONTROL MEASURES WITH MATERIAL. ANY MATERIAL THAT IS PLACED ON ANY EROSION CONTROLS BY THE CONTRACTOR (OR ANY AGENT OF THE CONTRACTOR) SHALL BE IMMEDIATELY REMOVED, AND ANY NECESSARY REPAIRS TO THE EROSION CONTROLS SUBSEQUENTLY IMPLEMENTED AT NO COST TO THE OWNER.
- UNTIL VEGETATIVE COVER IS ESTABLISHED AND DISTURBED AREAS ARE FULLY STABILIZED, TRAPPED SEDIMENTS SHALL BE PERIODICALLY REMOVED FROM PERIMETER EROSION CONTROL BARRIERS. AT A MINIMUM, MATERIAL SHALL BE REMOVED ONCE THE DEPTH OF ACCUMULATED SEDIMENT REACHES SIX (6) INCHES OR ONE-HALF THE BARRIER HEIGHT, WHICHEVER IS LESS. ALL REMOVED MATERIAL SHALL BE DISPOSED OF LEGALLY AT A SUITABLE OFFSITE LOCATION.
- ALL MATERIAL STOCKPILES SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE (LOD) DEPICTED ON THE PLANS AND SHALL BE SURROUNDED BY A SECURED PERIMETER OF COMPOST FILTER SOCK.
- ALL EXISTING AND CONSTRUCTED DRAINAGE SYSTEM INLETS SHALL BE PROVIDED WITH INLET PROTECTION DEVICES (FILTER BAGS/SILT SACKS, SANDBAGS, WATTLES, ETC.) AS INDICATED ON THE PLANS. ALL INLET PROTECTION DEVICES SHALL BE INSTALLED, MAINTAINED, AND CLEANED FOR THE DURATION OF CONSTRUCTION AND UNTIL ALL STORMWATER CONTROLS ARE FULLY STABILIZED AND ONLINE, AT WHICH TIME THEY SHALL BE REMOVED.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
- EROSION CONTROL DEVICES SHOULD BE INSPECTED WEEKLY AND AFTER RAINFALL EVENTS EXCEEDING ONE HALF INCH (1/2") IN ANY 24-HOUR PERIOD. WHERE AND WHEN REQUIRED, MAINTENANCE AND REPAIRS SHALL BE COMPLETED WITH 24 HOURS OF THE INSPECTION.
- DENUDED/UNVEGETATED SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15 SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
- TEMPORARY SURFACE STABILIZATION TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS FIBER MESH, EROSION CONTROL BLANKETS, OR OTHER MATTING. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS DIRECTED BY THE ENGINEER. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000-4,000 POUNDS PER ACRE (1.9-2.5 POUNDS PER SQUARE YARD). IF NEEDED, TEMPORARY SEEDING (PROVIDED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND EROSION AND SEDIMENT CONTROL GUIDANCE) MAY BE EMPLOYED TO FURTHER MINIMIZE EROSION.
- TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE, FREE OF SUBSOIL, STONES, ROCKS, ROOTS, BRUSH, REFUSE, CONSTRUCTION DEBRIS AND OTHER DELETERIOUS MATERIALS AND SHALL CONFORM TO SUBSECTION M1.05.0 OF THE MASSDOT STANDARD SPECIFICATIONS.
- THE SEEDED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
- THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING AND BE APPLIED AT A SEEDING RATE OF 100 POUNDS PER ACRE:

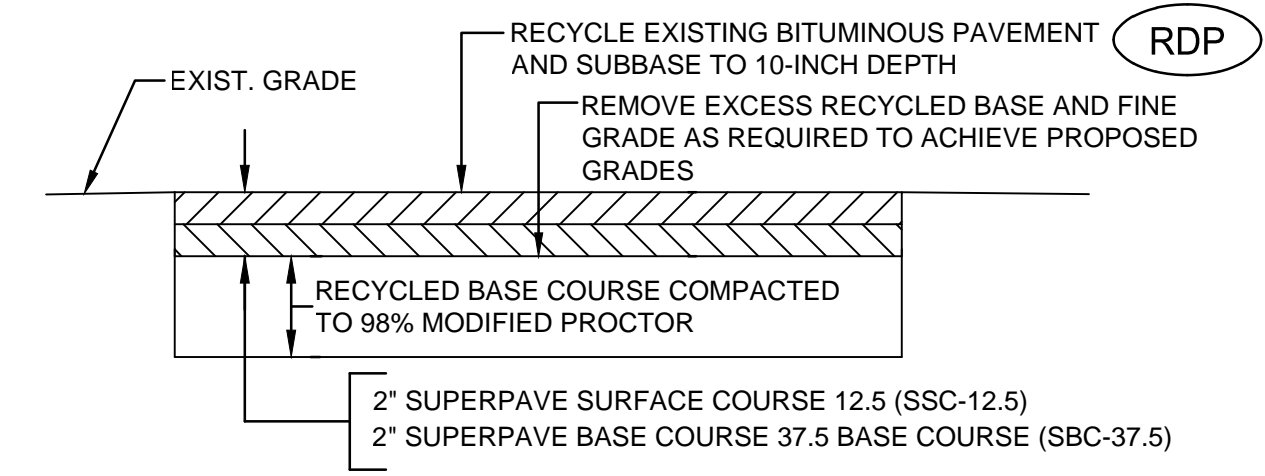
COMPONENT	% BY WEIGHT
RED FESCUE	70
KENTUCKY BLUEGRASS	15
COLONIAL BENTGRASS	5
PERENNIAL RYEGRASS	10
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1 - JUNE 1 AND AUGUST 15 - OCTOBER 15.
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 14 DAYS OF FINAL GRADING. PLANTING OF GRASS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.
- THE CONTRACTOR MUST REPAIR AND OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE (1) CALENDAR YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACTOR SHALL APPLY CALCIUM CHLORIDE FOR DUST CONTROL AFTER RECLAMATION OPERATIONS AT THE END OF EACH WORK DAY.

CLEANING AND FLUSHING PIPES AND DRAINAGE STRUCTURES NOTES:

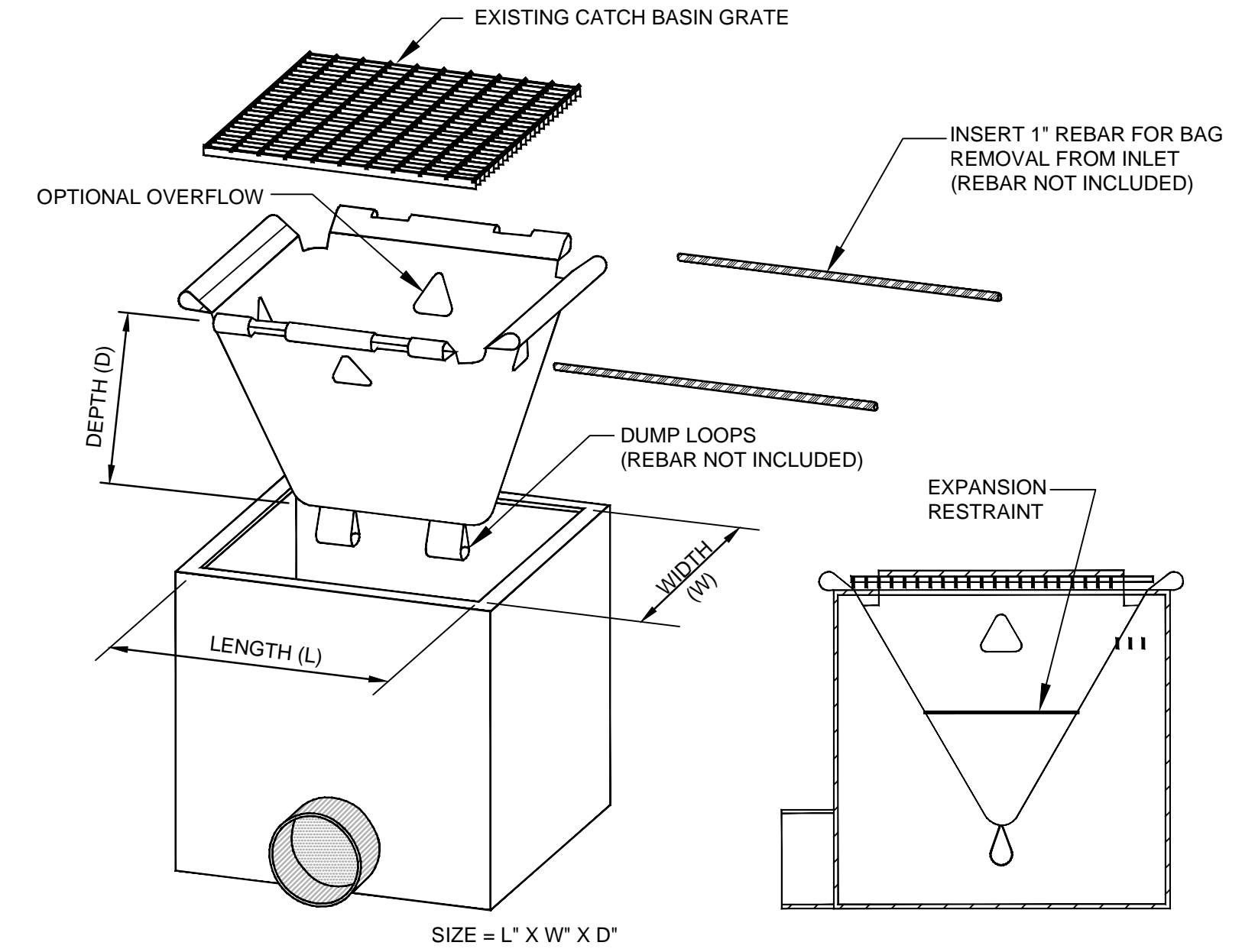
- THIS WORK CONSISTS OF CLEANING STORM DRAINS AND DRAINAGE STRUCTURES OF ALL TYPES AND SIZES AS DESIGNATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- EQUIPMENT FOR CLEANING PIPE LINES SHALL INCLUDE HOSES, RODDING MACHINES, BALLS, HYDRAULIC CLEANERS, ROOT CUTTERS, SMALL CLAM SHELL BUCKETS, STEEL PORCUPINES, PUMPS, OR OTHER SUITABLE AND APPROVED MEANS.
- WATER USED FOR CLEANING AND FLUSHING DRAINAGE PIPES SHALL BE FRESH AND FREE OF OIL, ACID, SALT, ALKALI, ORGANIC MATTER, OR ANY OTHER DELETERIOUS SUBSTANCES. THE CONTRACTOR SHALL PROVIDE ALL WATER REQUIRED FOR THE CLEANING OPERATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER OPERATION OF THE STORM DRAINAGE SYSTEM DURING THE CLEANING OPERATIONS. THE SAFE CONTROL OF STORM FLOWS SHALL BE ACCOMPLISHED BY THE CONTRACTOR SUCH AS TO PRECLUDE ANY INJURY TO PERSONS OR PROPERTY DUE TO FLOODING.
- THE CONTRACTOR SHALL CLEAN AND FLUSH THOSE STORM DRAIN LINES DESIGNATED ON THE PLANS BY USE OF PRESSURE HOSES, SUCTION PUMPS, AND/OR ANY OTHER METHODS REQUIRED TO PERFORM THIS WORK.
- A SUITABLE WEIR OR DAM SHALL BE CONSTRUCTED IN THE NEAREST DOWNSTREAM MANHOLE OR CATCH BASIN IN SUCH A MANNER THAT DEBRIS MATERIAL WILL BE TRAPPED. UNDER NO CIRCUMSTANCES SHALL SUCH MATERIAL BE PASSED ON FROM ONE SECTION TO THE NEXT OR TO THE WETLAND.
- EACH MANHOLE OR CATCH BASIN SHALL BE CLEANED INDEPENDENTLY OF OTHER PORTIONS OF THE STORM DRAINAGE SYSTEM.
- DISPOSAL OF ALL MATERIAL COLLECTED SHALL BE DONE IN ACCORDANCE WITH ALL REQUIREMENTS OF APPLICABLE STATE AGENCIES.

LEGEND

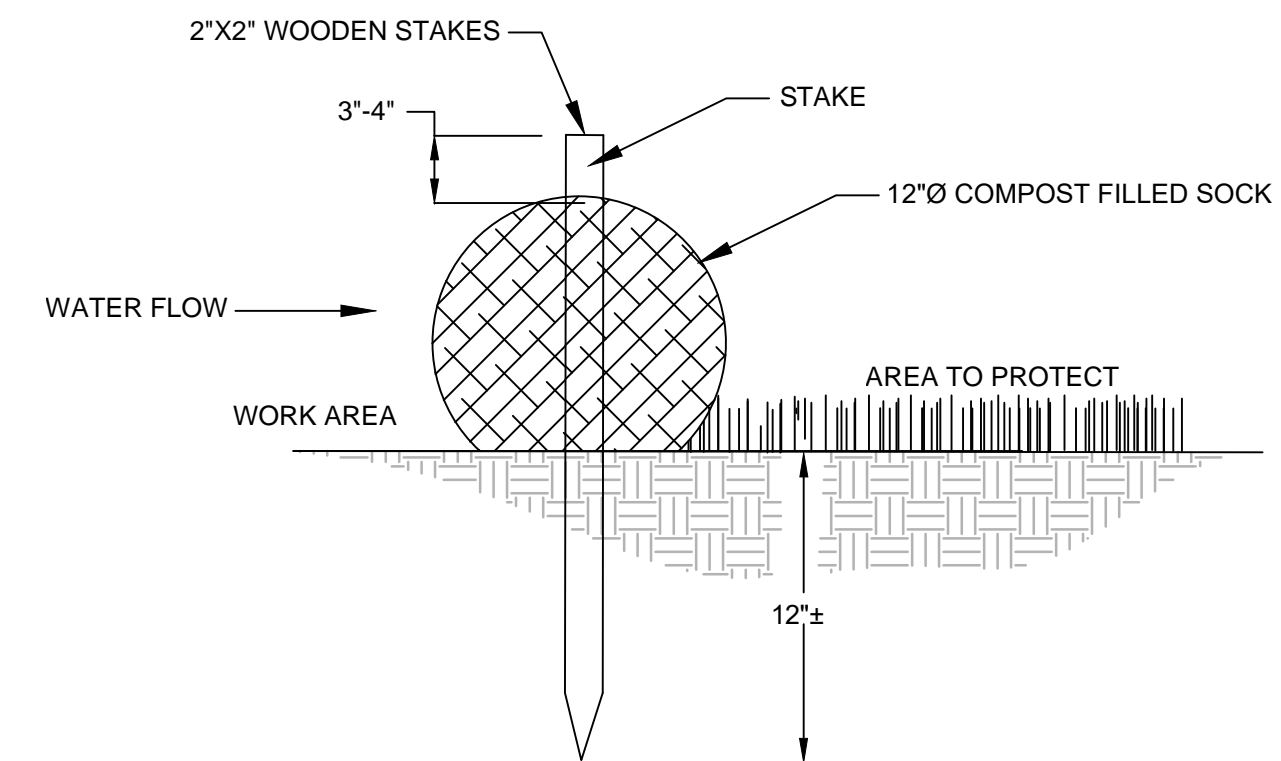
-  CUT AND MATCH
-  PROPOSED SPOT GRADE
-  FLOW DIRECTION
-  ADJUST BASIN TO MANHOLE
-  ADJUST FRAME AND COVER
-  BIO-SKIRT
-  CATCH BASIN INLET PROTECTION
-  CLEAN CATCH BASIN
-  CLEAN AND FLUSH PIPE
-  CLEAN MANHOLE
-  EXISTING TO REMAIN
-  LIMIT OF DISTURBANCE
-  NEW PAVEMENT STRUCTURE (SEE DETAILS)
-  REMOVE AND DISPOSE
-  RECYCLE FLEXIBLE PAVEMENT FOR SUBBASE
-  SNOOT OIL & DEBRIS STOP
-  TIE NEW PIPE INTO EXISTING STRUCTURE
-  CATCH BASIN FRAME MASS STD. 201.6.0
-  HOOK LOCK BAR GRATE MASS STD. 201.10.0
-  CATCH BASIN HOOD MASS STD. 201.12.0



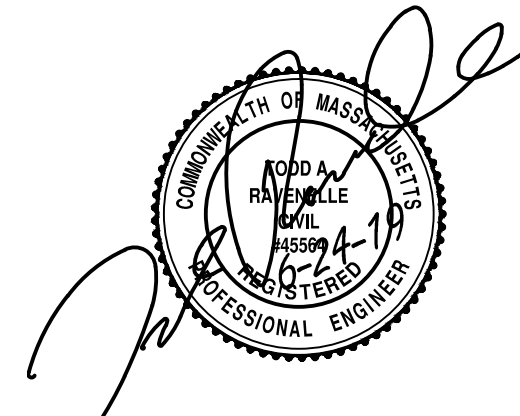
PAVEMENT STRUCTURE (NPS)
NOT TO SCALE



CATCH BASIN INLET PROTECTION (CBP)
NOT TO SCALE



COMPOST FILTER SOCK (CFS)
NOT TO SCALE



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Civil and Environmental Engineers
Pawtucket, Rhode Island

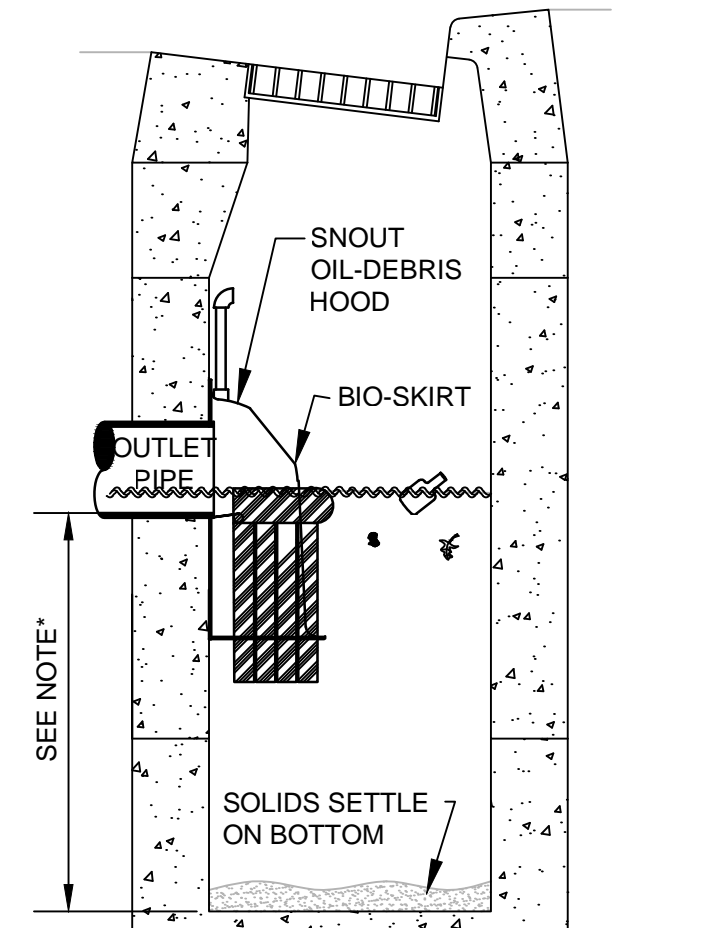
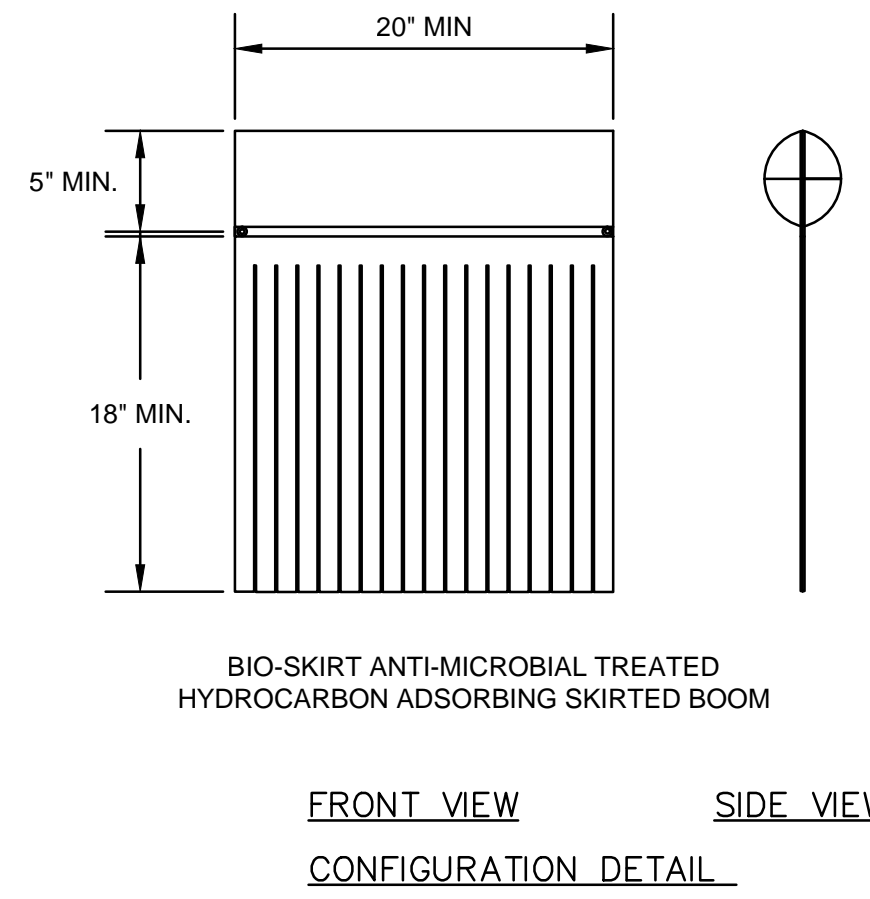
McKinnell & Taylor Inc.
ARCHITECTS-ENGINEERS-PLANNERS
POST OFFICE BOX 336
135 A STREET
NORWELL, MA 02061
PHONE: (781) 878-8223
FAX: (781) 878-8920

30% SUBMISSION
(NOT FOR CONSTRUCTION)
06-24-19

PAVEMENT IMPROVEMENTS
VEHICLE MAINTENANCE FACILITY
135 A STREET
BOSTON, MA 02210-9998

UNITED STATES POSTAL SERVICE
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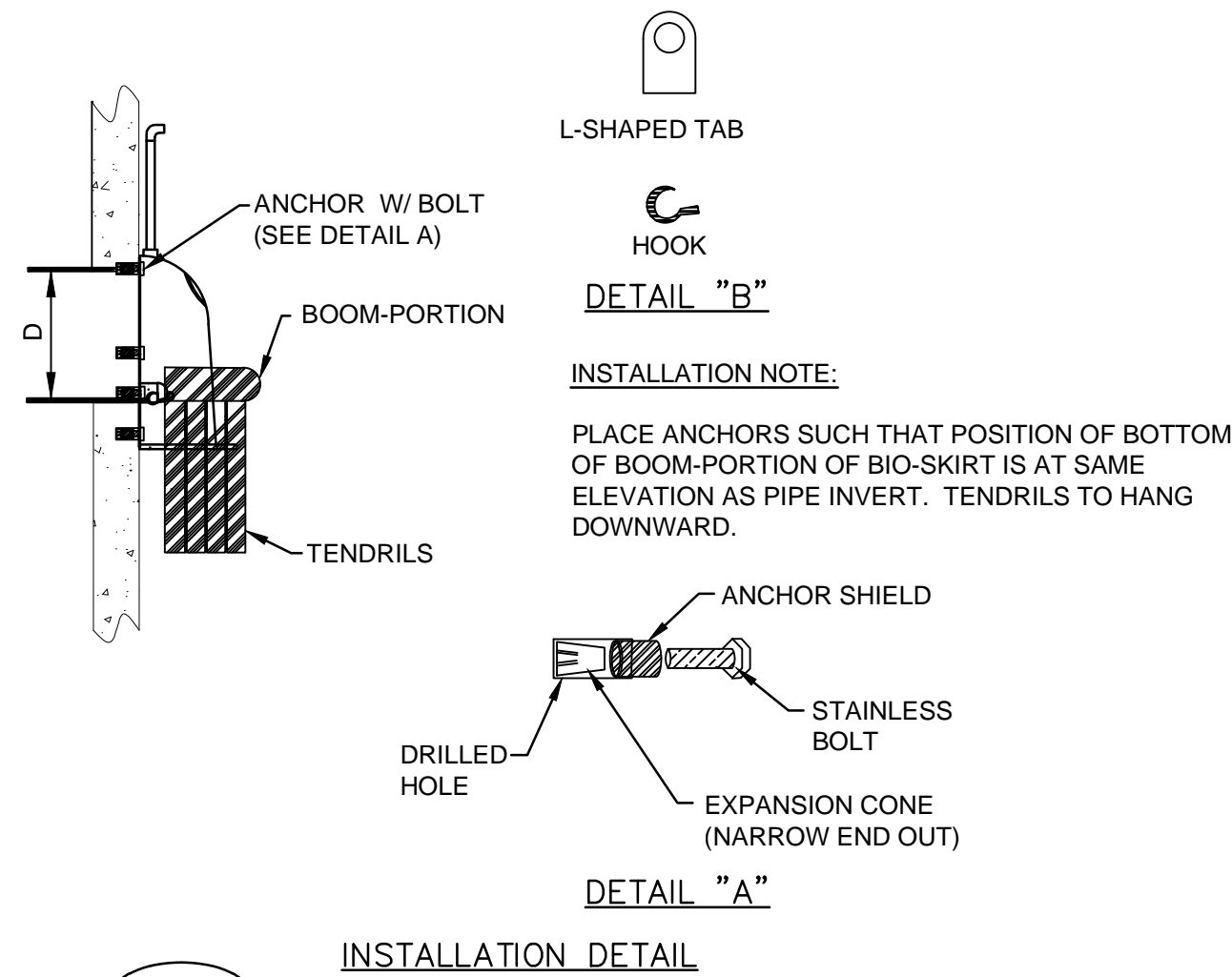
C1.08	SCALE: AS NOTED	DATE: 6-3-19	REVISIONS:	DATE:
	A/E PROJECT NO.: E71689			
	USPS PROJECT NO.: 17036.00			



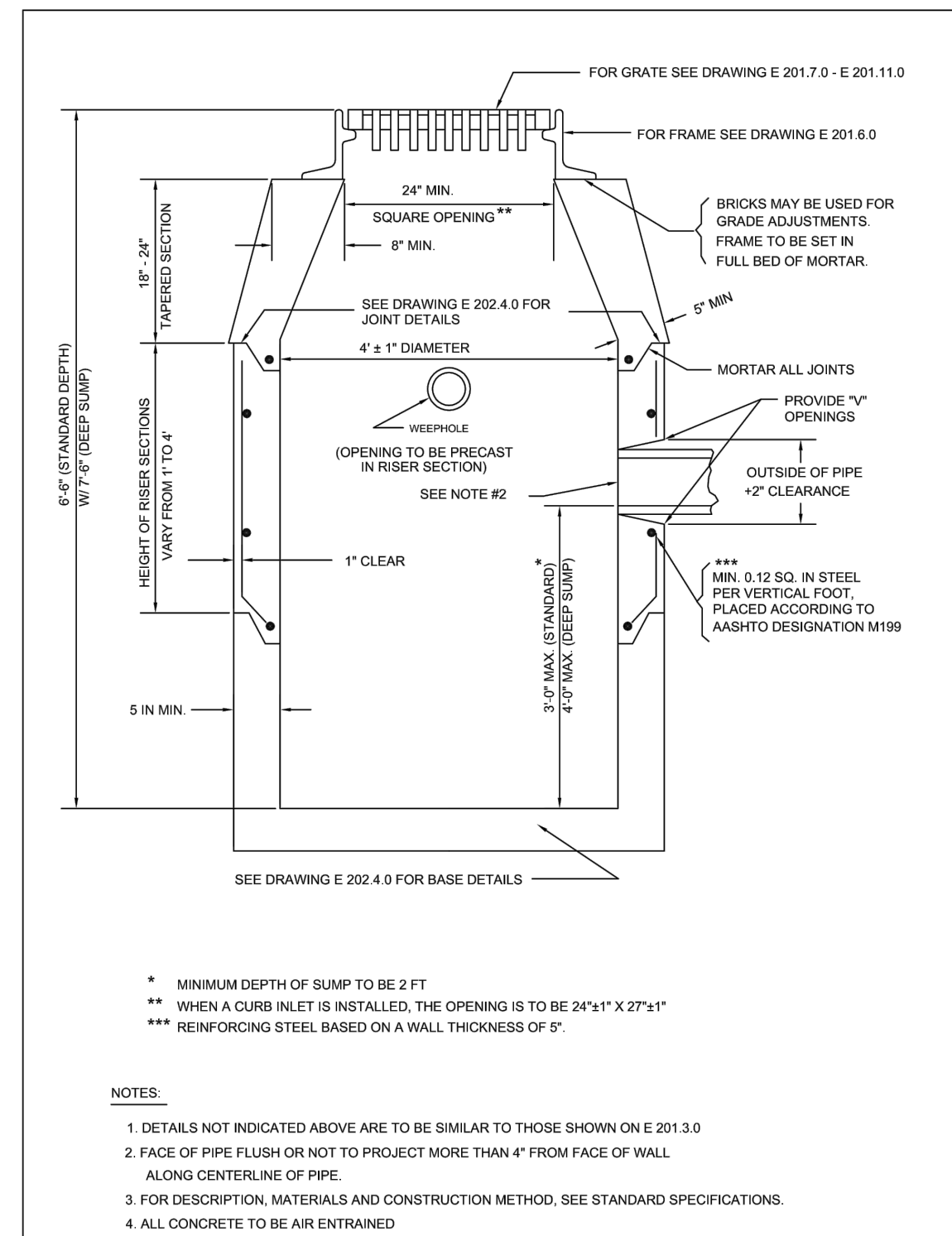
- NOTES:**
1. THE SKIRTED BOOM SHALL BE COMPRISED OF AN UPPER BOOM PORTION THAT IS AN ADSORBENT FABRIC COVERED FLOATING BOOM OF 5" MINIMUM DIAMETER WITH AN INTEGRAL LOWER SKIRT PORTION COMPRISED OF FABRIC TENDRILS OF AN 18" MINIMUM LENGTH THAT HANG BENEATH THE BOOM.
 2. ALL BOOMS SHALL BE MADE FROM GEO-TEXTILE QUALITY NEEDLE-WOVEN FILTRATION FABRIC MANUFACTURED FROM 100% RECYCLED SELECT FIBERS WITH A .125" MINIMUM THICKNESS.
 3. ALL FABRIC SHALL BE TREATED WITH A COVALENTLY SURFACE BONDED NON-LEACHING ANTIMICROBIAL AGENT AND BOOMS SHALL DISPLAY A TAG INDICATING "ANTIMICROBIAL".
 4. THE BIO-SKIRT SHALL BE POSITIONED IN FRONT OF THE EXIT PIPE AND SNOUT OIL-DEBRIS SEPARATOR IF SO EQUIPPED (THE PREFERRED APPLICATION OF THE BIO-SKIRT IS TO BE DEPLOYED WITH THE SNOUT).
 5. THE SKIRTED BOOM SHALL BE SECURELY ATTACHED TO THE STRUCTURE WALL ON EACH SIDE OF THE EXIT PIPE WITH 3/8" STAINLESS STEEL BOLTS, STAINLESS STEEL TABS, PLASTIC-COMPOSITE HOOKS AND ELASTOMERIC CORD AS FOUND IN MANUFACTURER SUPPLIED INSTALLATION KIT.
 6. FOR APPLICATIONS WHERE MULTIPLE BIO-SKIRTS ARE DEPLOYED TOGETHER FOR LARGER SNOUTS (E.G. ON 24" AND LARGER SNOUTS PER SCHEDULE BELOW*), CONNECT SKIRTS GROMMET TO GROMMET WITH HOOKS AND CORD AS SUPPLIED IN THE INSTALLATION KIT.

TYPICAL DEPLOYMENT SCHEDULE:
 12-18" SNOUT- ONE BIO-SKIRT
 24-30" SNOUT- TWO BIO-SKIRTS

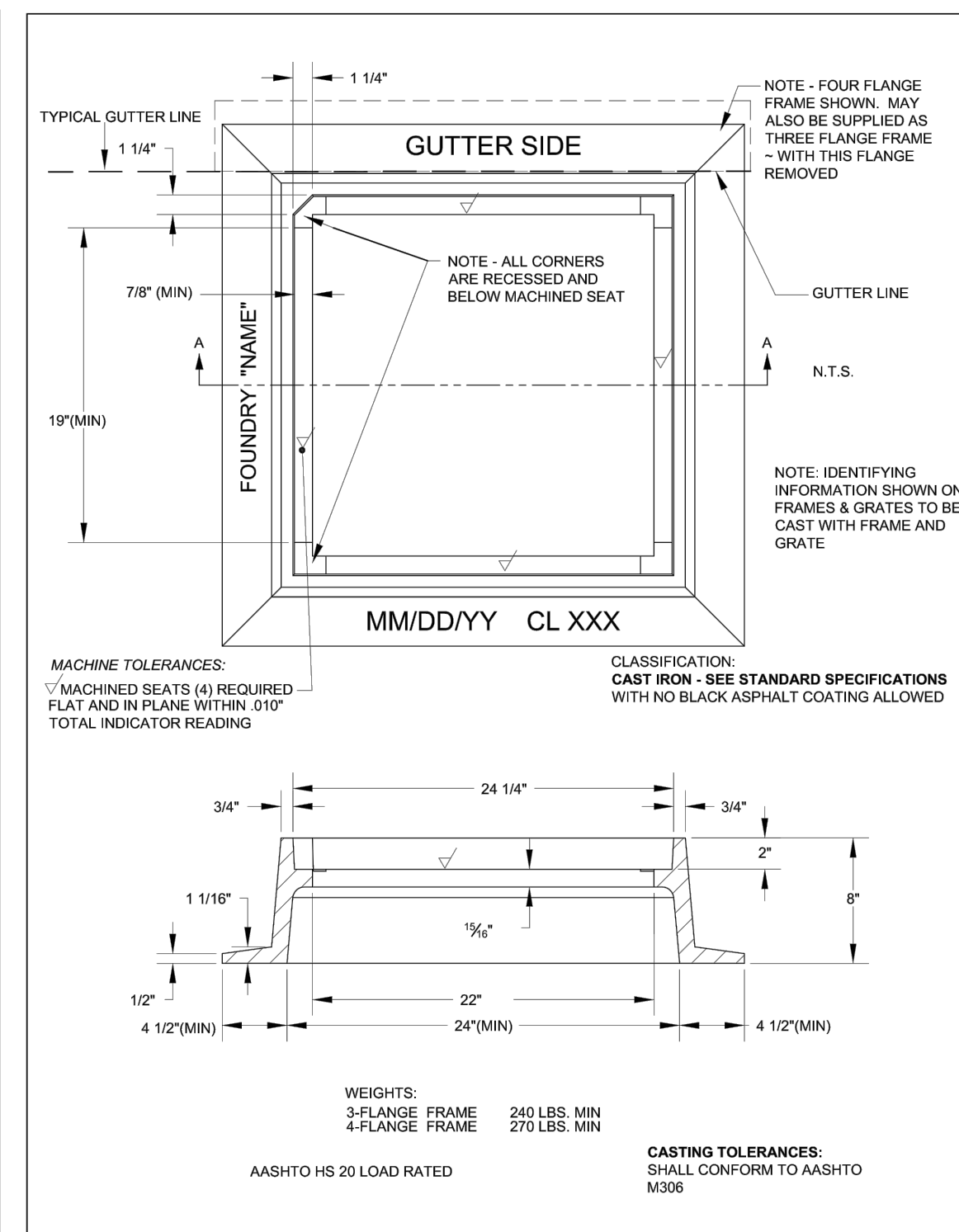
BIO-SKIRT DETAIL (BS)
 NOT TO SCALE



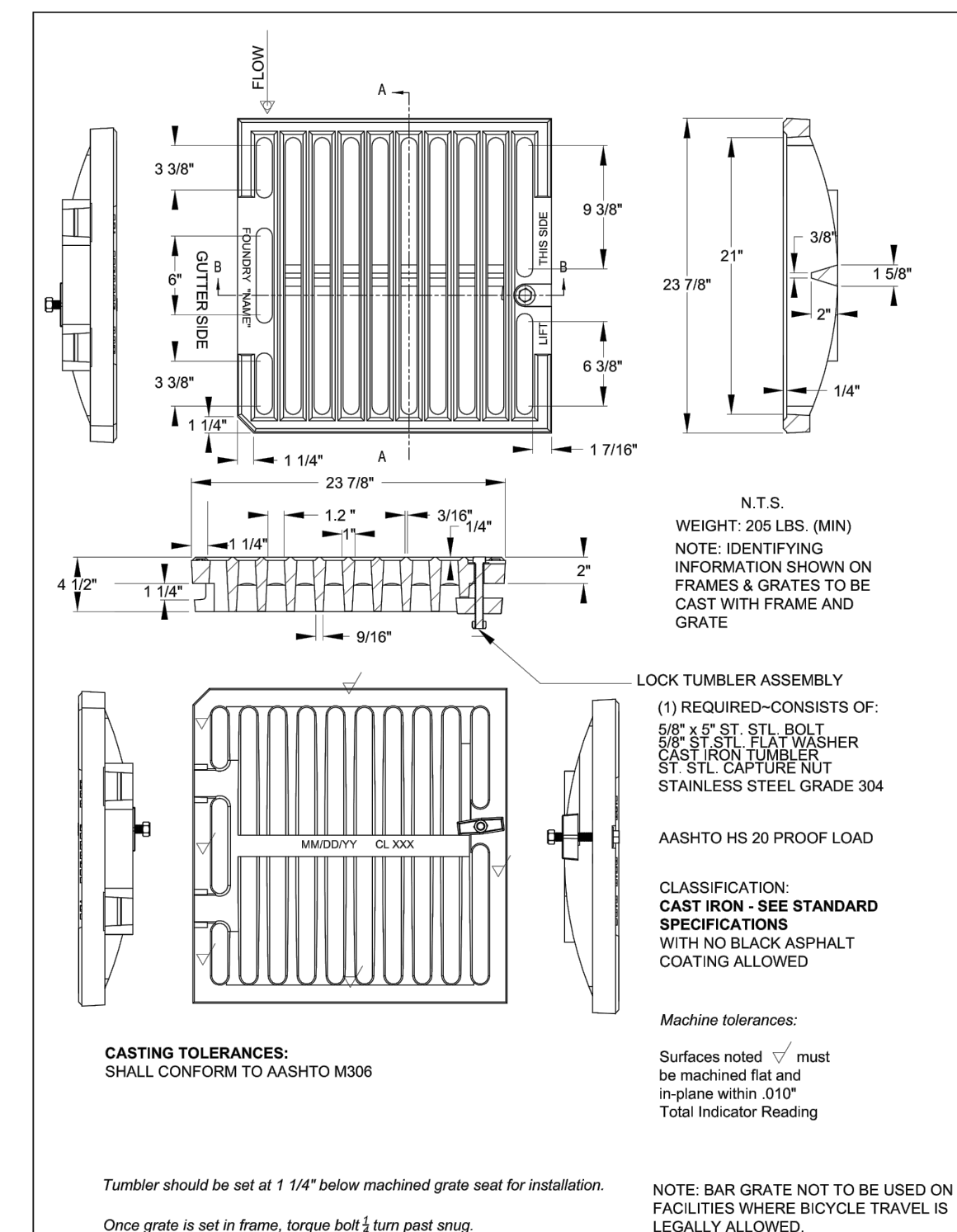
INSTALLATION DETAIL



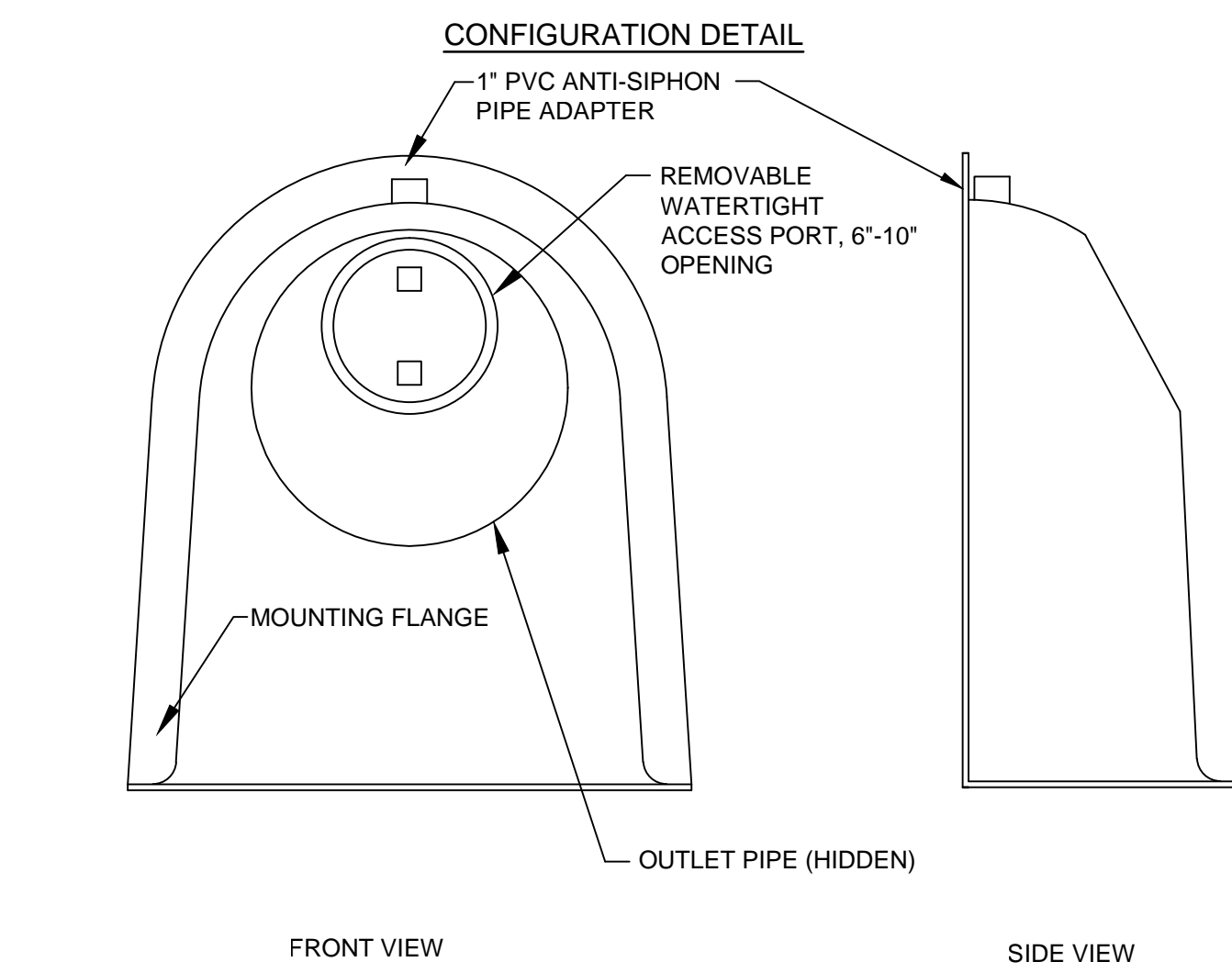
PRECAST CONCRETE CATCH BASIN
 DATE OF ISSUE: DECEMBER 2016
 DRAWING NUMBER: E 201.4.0



CATCH BASIN FRAME
 DATE OF ISSUE: DECEMBER 2016
 DRAWING NUMBER: E 201.6.0

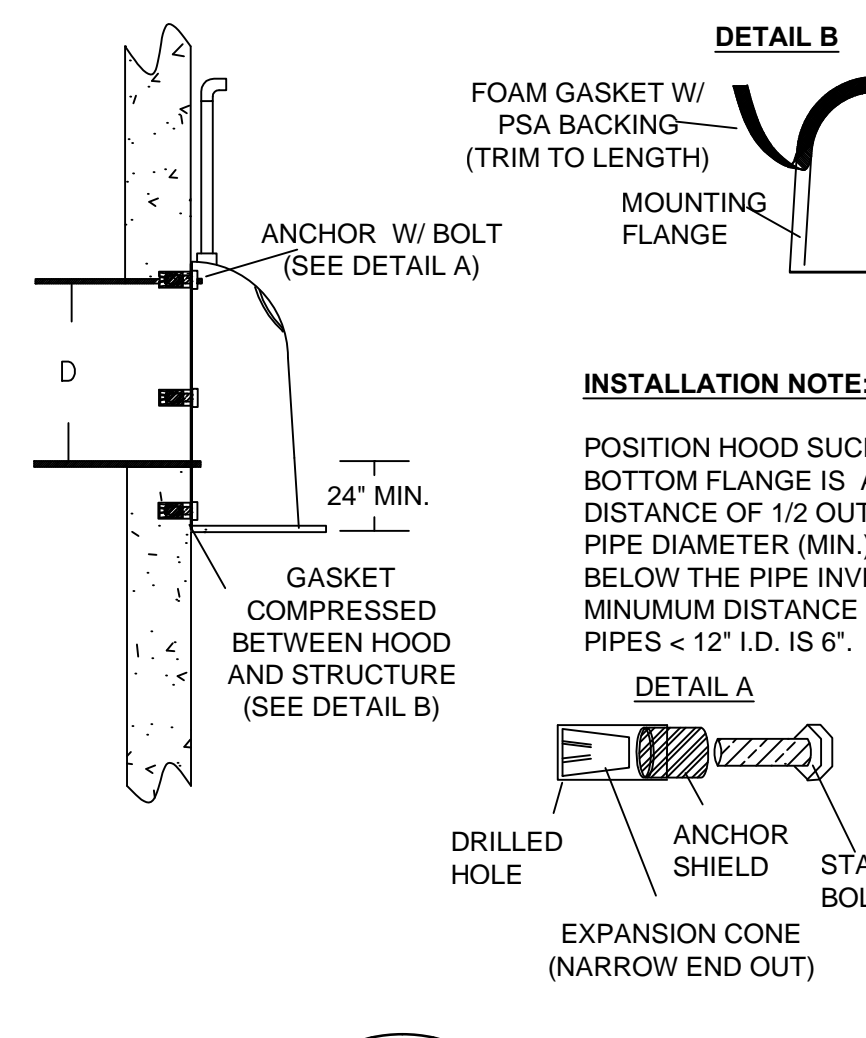
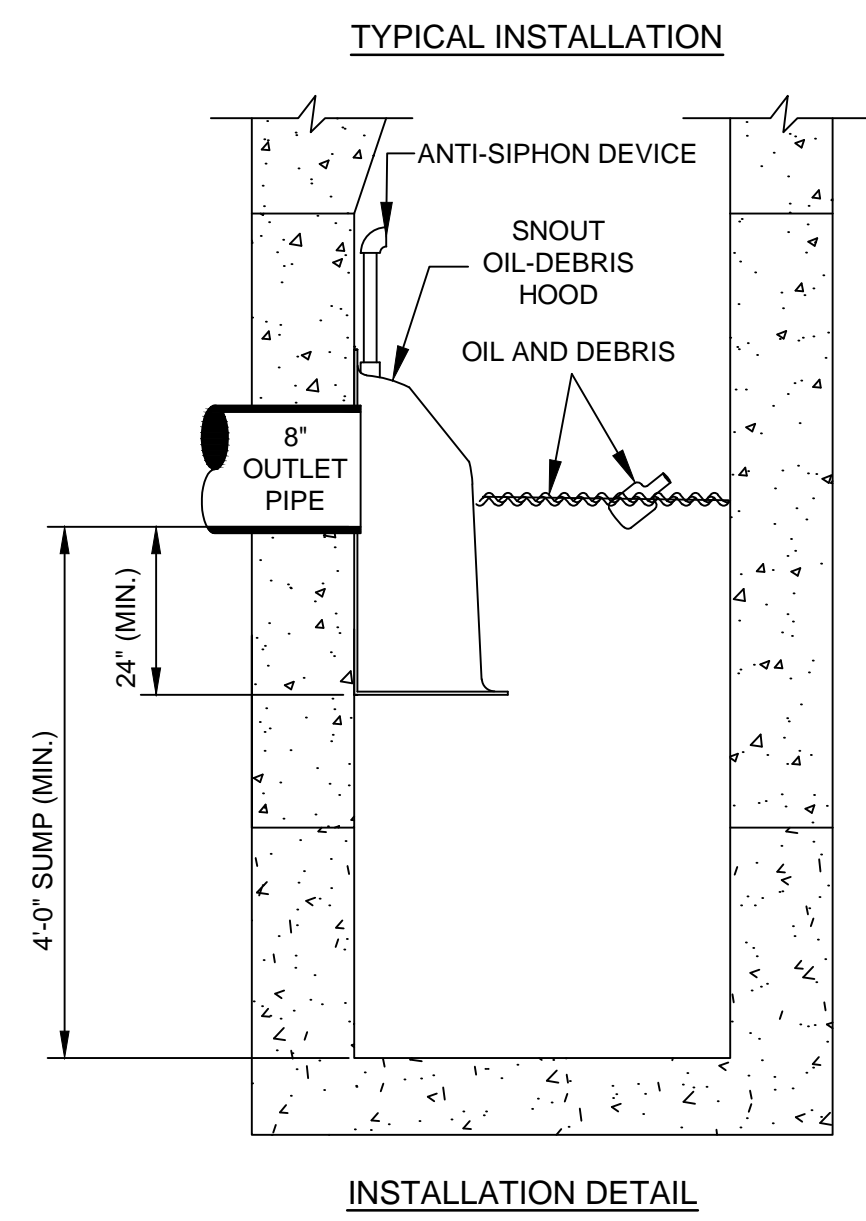


HOOK LOCK BAR GRATE
 DATE OF ISSUE: DECEMBER 2016
 DRAWING NUMBER: E 201.10.0

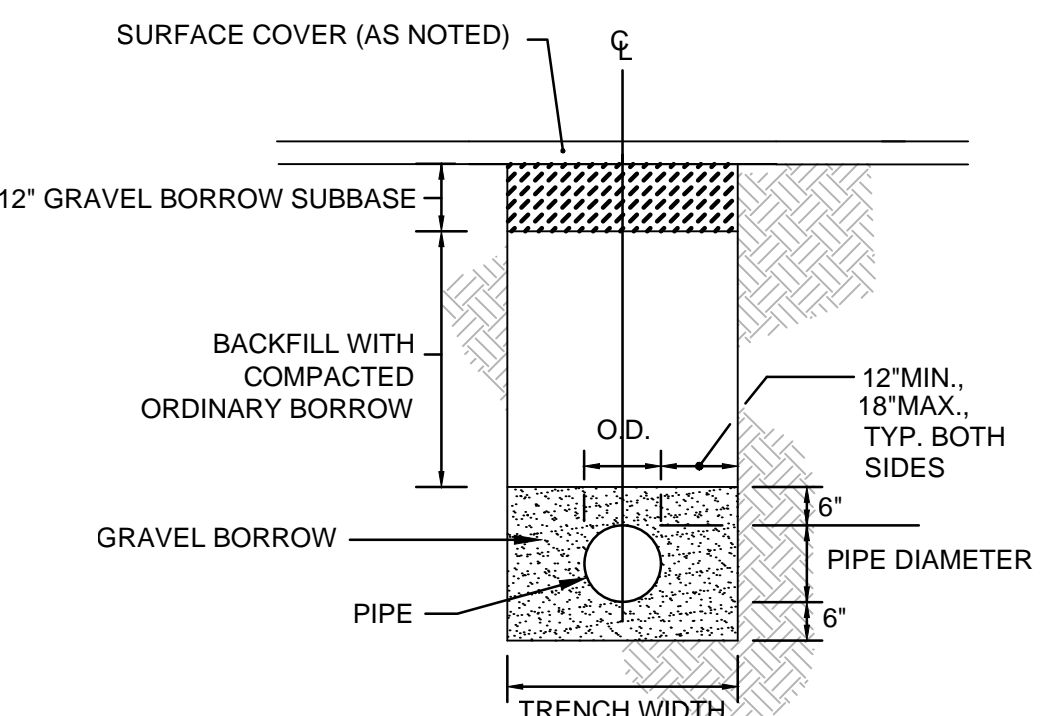
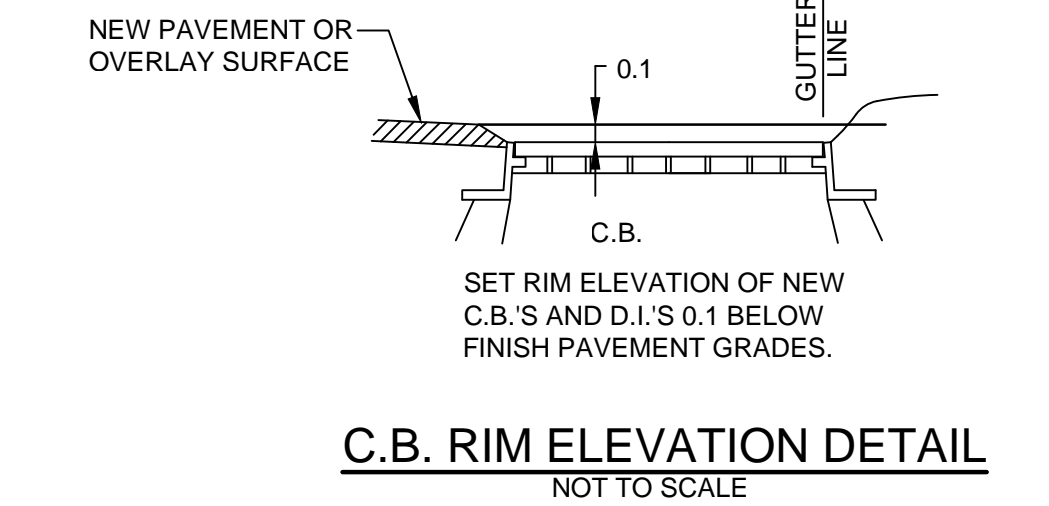


SNOUT OIL-WATER-DEBRIS SEPARATOR

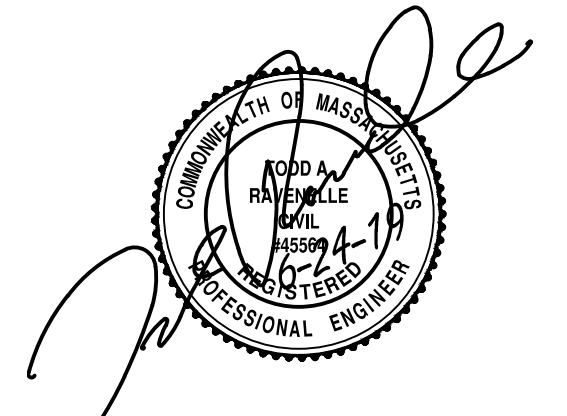
- NOTES:**
1. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY: BEST MANAGEMENT PRODUCTS, INC. 53 MT. ARCHER RD. LYME, CT 06371 (860) 434-0277, (860) 434-3195 FAX TOLL FREE: (800) 504-8008 OR (888) 354-7585 WEB SITE: www.bestmp.com OR PRE-APPROVED EQUAL.
 2. ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
 3. ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT AS DRAWN. (SEE CONFIGURATION DETAIL)
 4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION.
 5. THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A DISTANCE EQUAL TO 24" BELOW OUTLET INVERT.
 6. THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 24" ACCORDING TO STRUCTURE CONFIGURATION.
 7. THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL.
 8. THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL)
 9. INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT. INSTALLATION KIT SHALL INCLUDE: A. INSTALLATION INSTRUCTIONS B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING D. 3/8" STAINLESS STEEL BOLTS E. ANCHOR SHIELDS



SNOUT OIL & DEBRIS STOP (SOS)
 NOT TO SCALE



TYPICAL WATER & STORM PIPE TRENCH DETAIL
 NOT TO SCALE



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