



Town of Arlington, MA Redevelopment Board

Agenda & Meeting Notice May 20, 2019

The Arlington Redevelopment Board will meet Monday, May 20, 2019 at 7:30 PM in the **Town Hall Annex, 2nd Floor Conference Room, 730 Massachusetts Avenue, Arlington, MA 02476**

1. Presentation by Arlington High School Building Committee

7:30 p.m. - AHSBC members will present and Board members will be provided time
8:15 p.m. for questions about the project.

2. ARB Property Portfolio updates

8:15 p.m. - • 23 Maple Street lease extension
8:45 p.m. • STEP extension
• Central School renovation update
• Senior Center proposed name change

Staff will present updates and Board members will review, discuss, and vote.

3. Debrief Annual Town Meeting/ Special Town Meeting, next steps

8:45 p.m. - Staff and board members will discuss Town Meeting votes and next steps
9:30 p.m. related to funding appropriations, including zoning initiatives.

4. Adjourn

9:30 p.m. - Adjourn

5. Correspondence received

Correspondence received: MA Department of Environmental Protection Issuance of Chapter 91 Waterways License 14829 re: Spy Pond erosion control project



Town of Arlington, Massachusetts

Presentation by Arlington High School Building Committee

Summary:

7:30 p.m. - AHSBC members will present and Board members will be provided time for questions
8:15 p.m. about the project.

ATTACHMENTS:

Type	File Name	Description
▢ Reference Material	Agenda_Item_1_-_AHSBC_Presentation_04-29-19.pdf	AHSBC Presentation 04-29-19



ARLINGTON HIGH SCHOOL BUILDING PROJECT

SPECIAL TOWN MEETING - APRIL 29, 2019

Project Overview

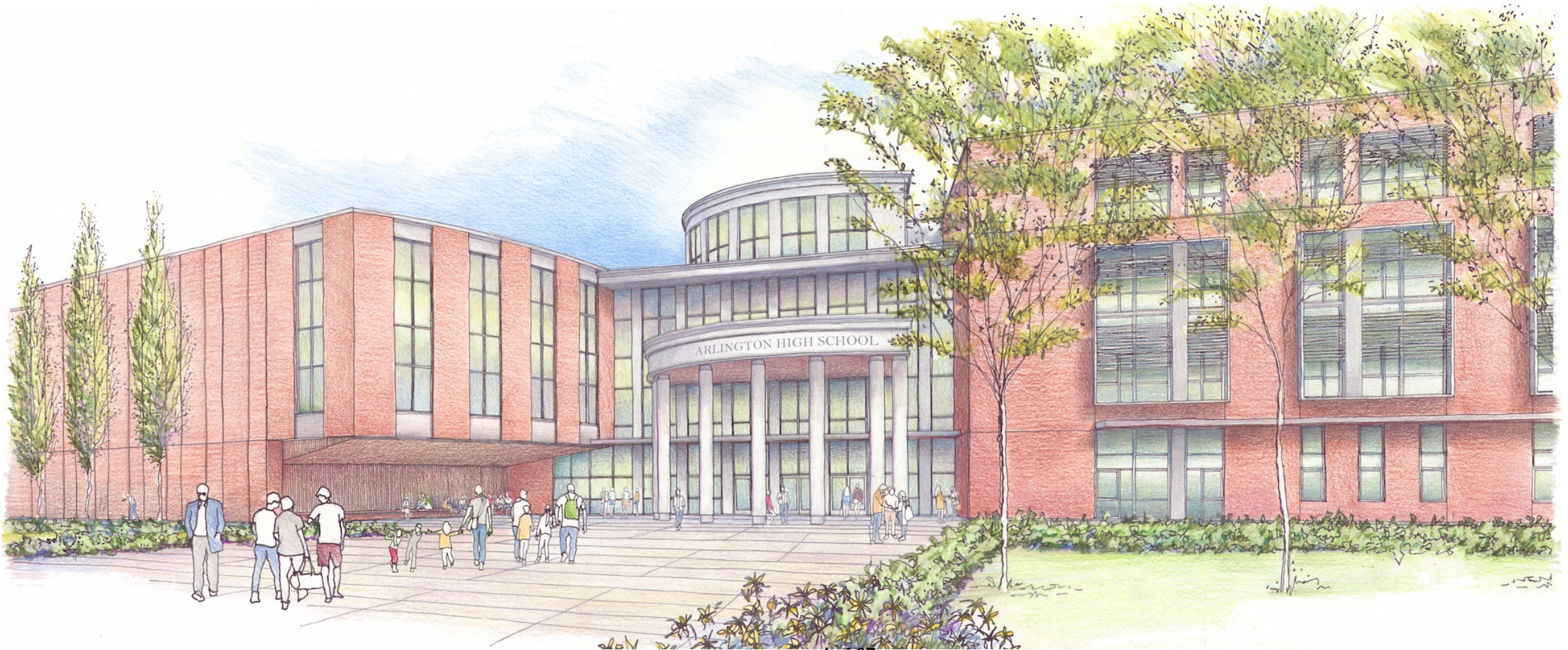
www.ahsbuilding.org

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The New High School





Why do we need a new high school?

School on accreditation warning due to poor facility

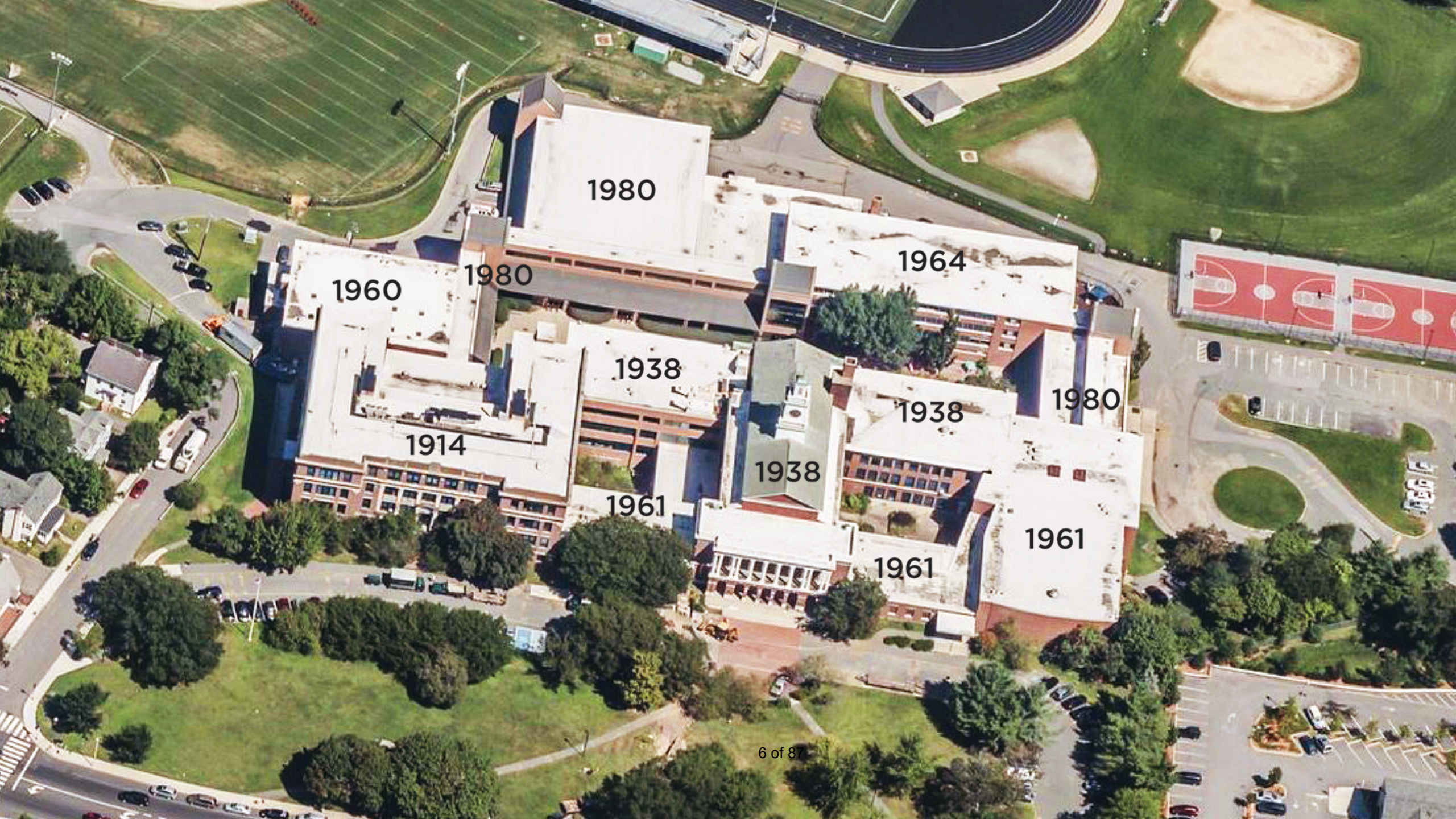


Deteriorating building in need of much repair



Growing enrollment – school now nearly at capacity





1980

1964

1960

1980

1938

1938

1980

1914

1938

1961

1961

1961



The MSBA Process: First Steps

2015

Statement of Interest (SOI)

2016

MSBA Invited Arlington to
Eligibility Period

2016

AHS Building Committee formed

2017

Design enrollment determined



AHS Project Complexities: Multiple Uses

- Menotomy Preschool
- LABBB Special Education Collaborative
- Arlington Community Education offices
- School District Administration & Payroll offices





AHS Project Complexities: Complicated Site

- Compact 22 acre site
- 24 foot grade change from Mass. Ave. to fields
- Mill Brook runs under the site
- Some site contamination





Facility Decisions

- IT, Facilities move to DPW
- Comptroller move to Town Hall
- District Admin/Payroll offices remain at AHS
- Preschool remains at AHS
 - Preschool eligible for MSBA reimbursement





Design Decision: New Facility

- Minimizes disruption to school
- Preserves two-thirds of front lawn
- Faster construction
- First building open to students in 2022
- More cost effective than renovation-addition options





Rising Expectations

- AHS ranked 9th in the state
- 21st century educational needs
- No Child Left Behind
- Technology

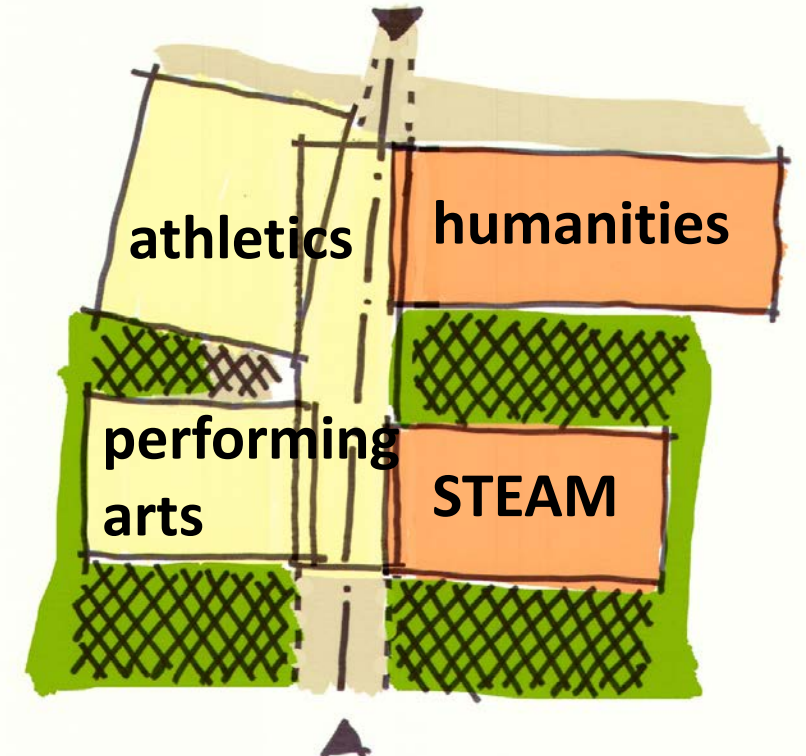


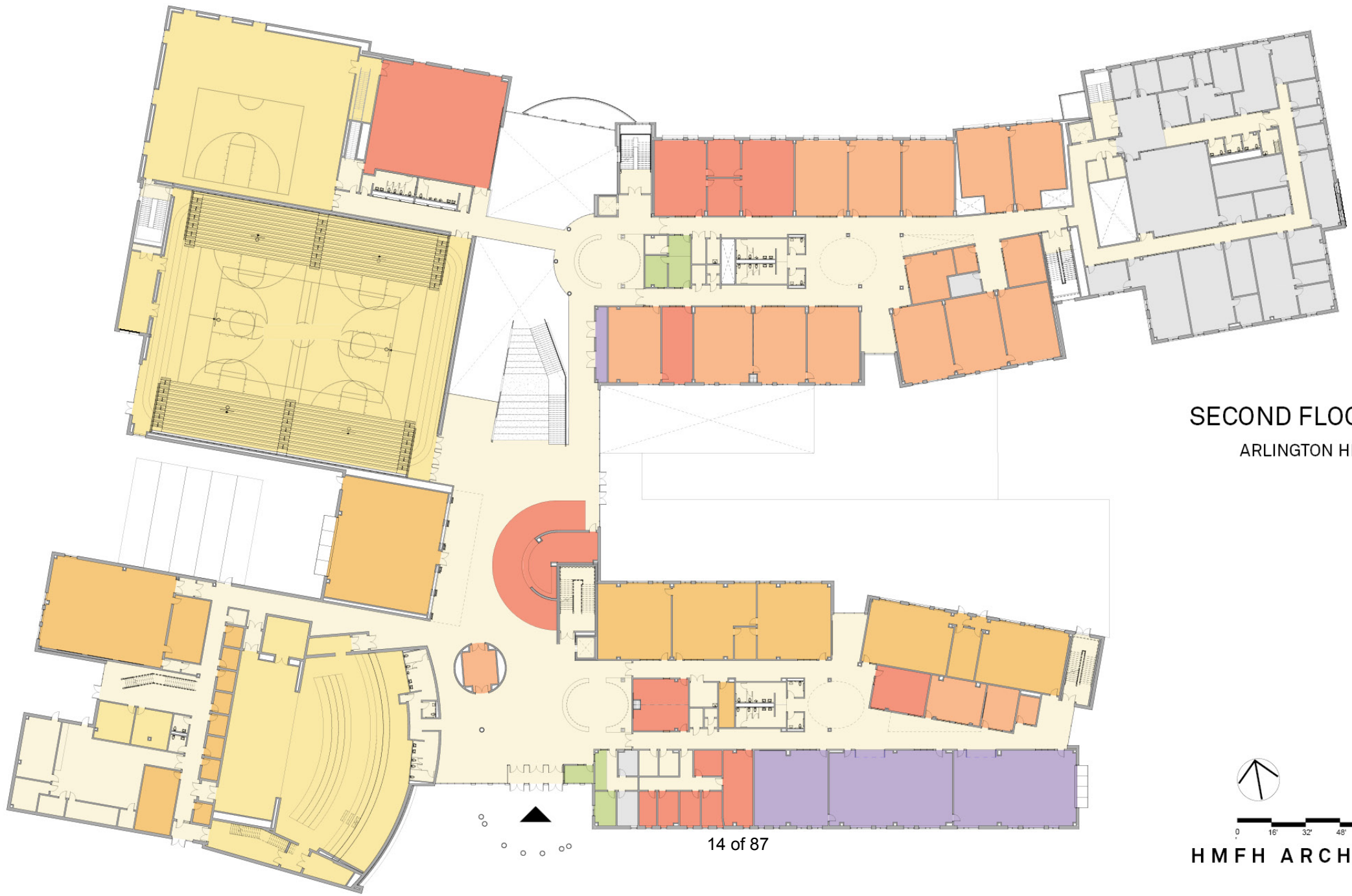


Balance and Flexibility

Balanced approach to educational spaces

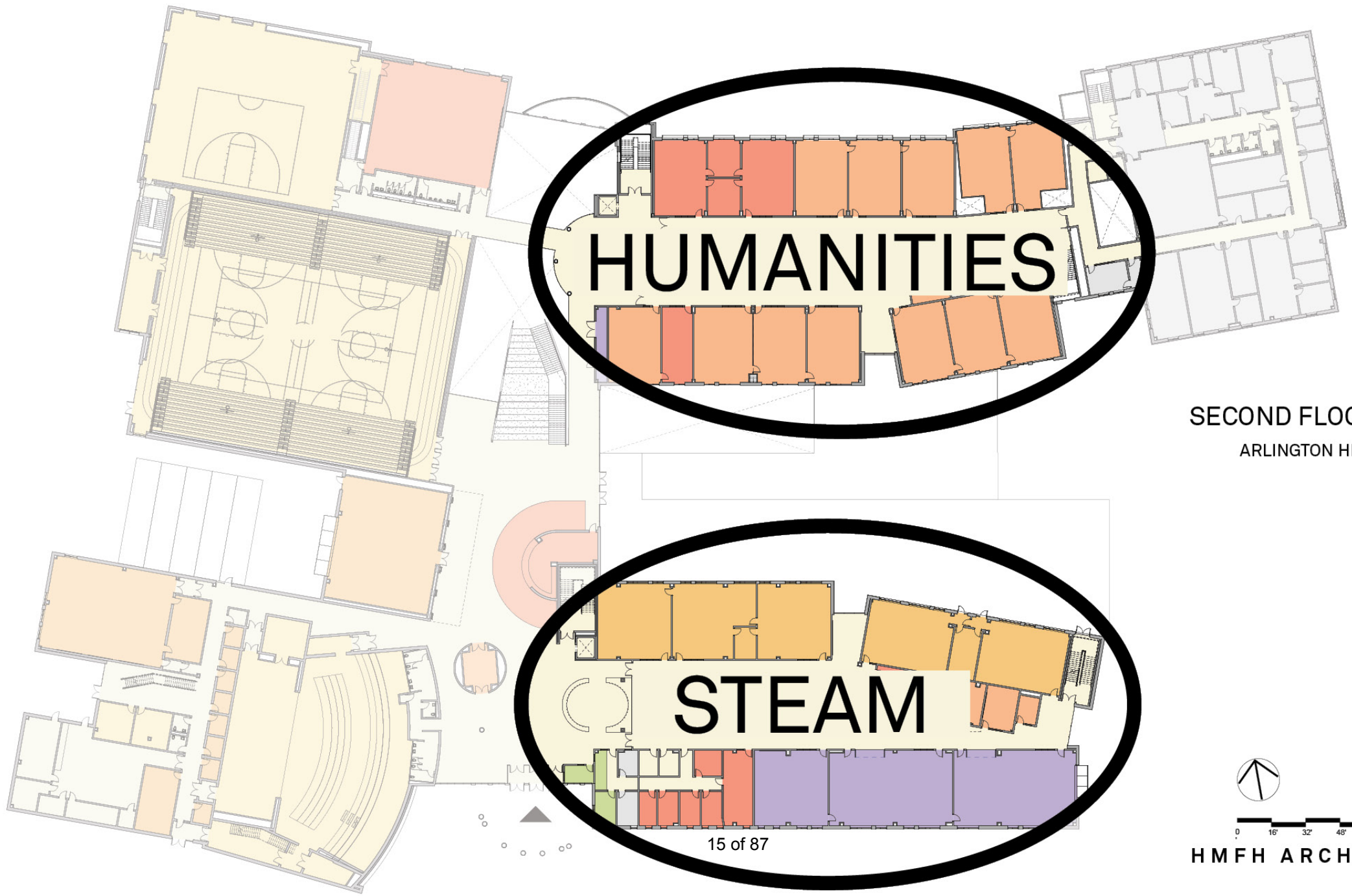
- Promotes health and well-being
- Accommodates enrollment growth
- Flexibly addresses educational needs today and tomorrow





SECOND FLOOR PLAN
ARLINGTON HIGH SCHOOL



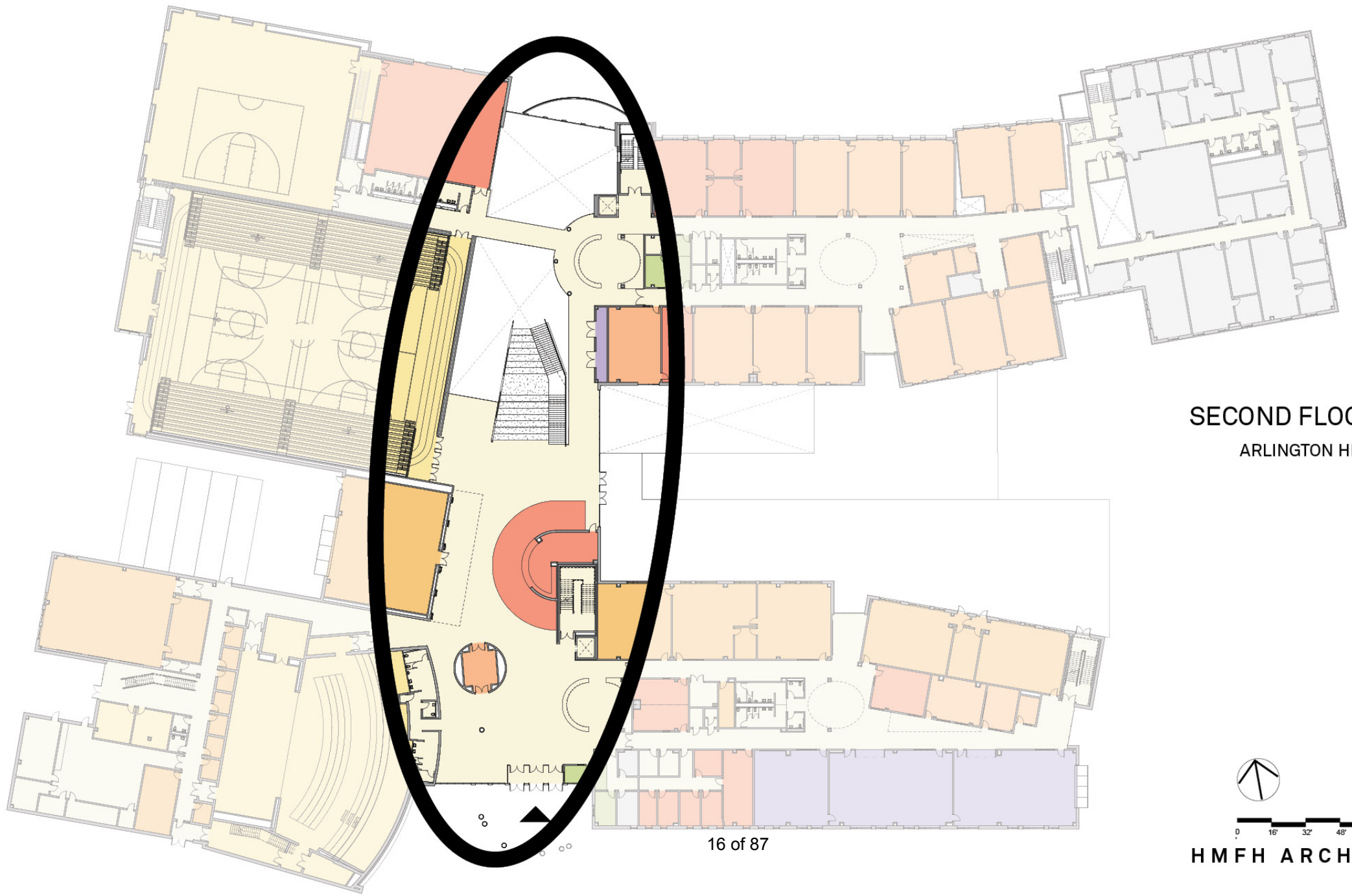


HUMANITIES

STEAM

SECOND FLOOR PLAN
ARLINGTON HIGH SCHOOL





SECOND FLOOR PLAN
ARLINGTON HIGH SCHOOL





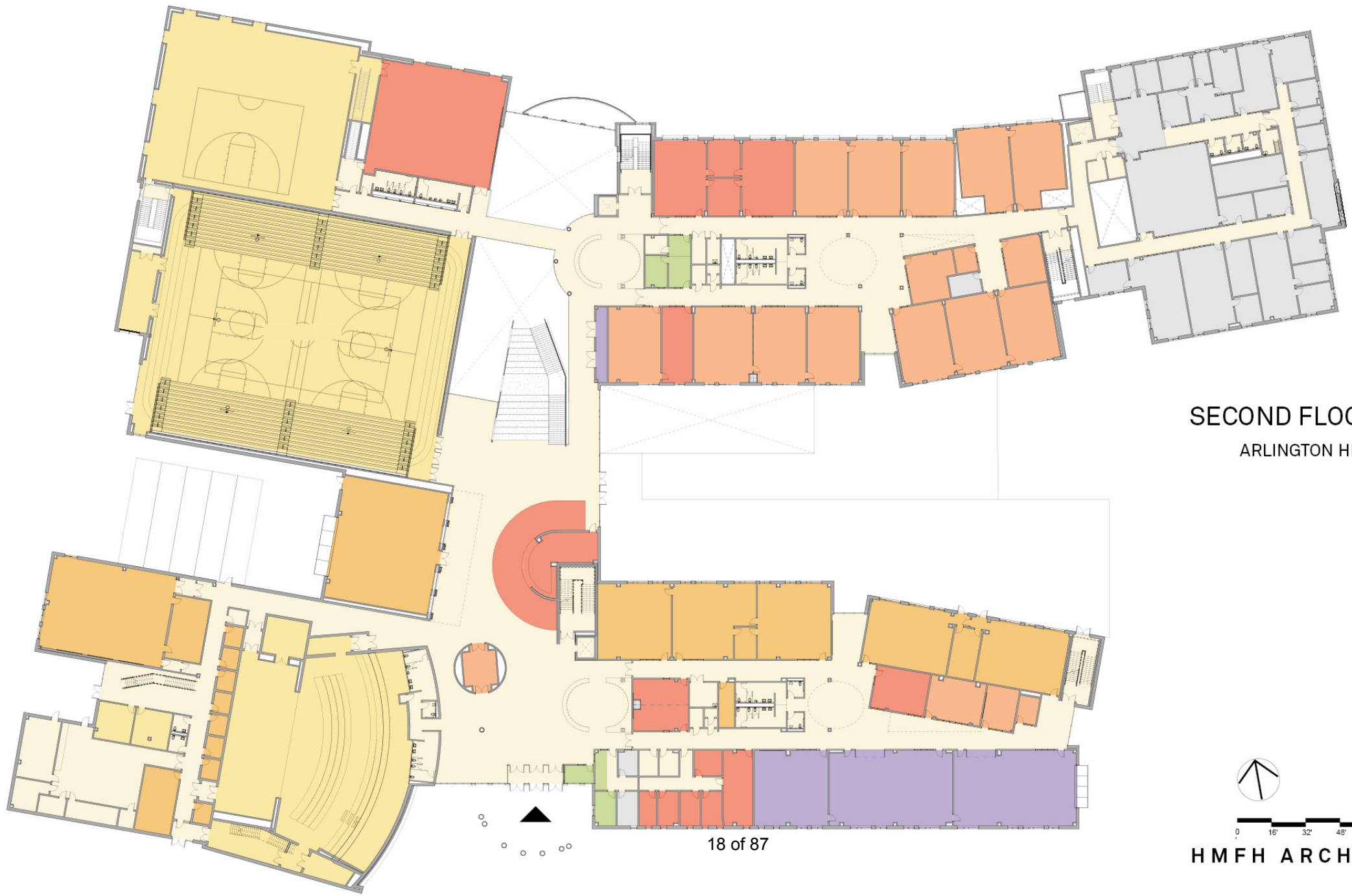
ATHLETICS

The image is a detailed architectural floor plan of the second floor of Arlington High School. The plan shows a complex arrangement of rooms, corridors, and outdoor spaces. Two specific areas are highlighted with circular callouts: the 'ATHLETICS' section in the top left, which includes a large gymnasium and a basketball court, and the 'PERFORMING ARTS' section in the bottom left, which includes a theater and rehearsal spaces. The rest of the floor plan is divided into various classrooms, offices, and common areas, color-coded in shades of orange, yellow, and purple. A north arrow and a scale bar are located in the bottom right corner, and the page number '17 of 87' is centered at the bottom.

PERFORMING
ARTS

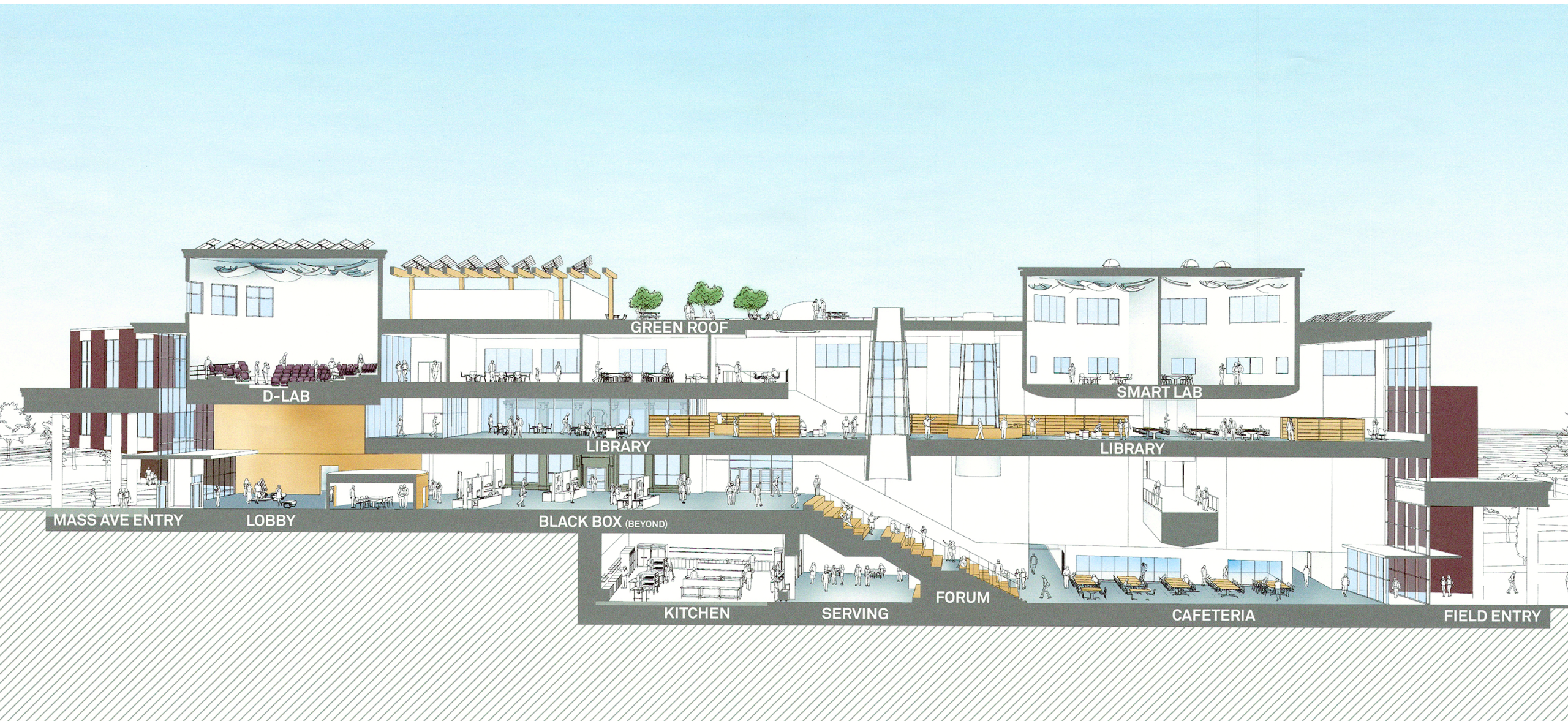
SECOND FLOOR PLAN
ARLINGTON HIGH SCHOOL





SECOND FLOOR PLAN
ARLINGTON HIGH SCHOOL







Historic element reuse

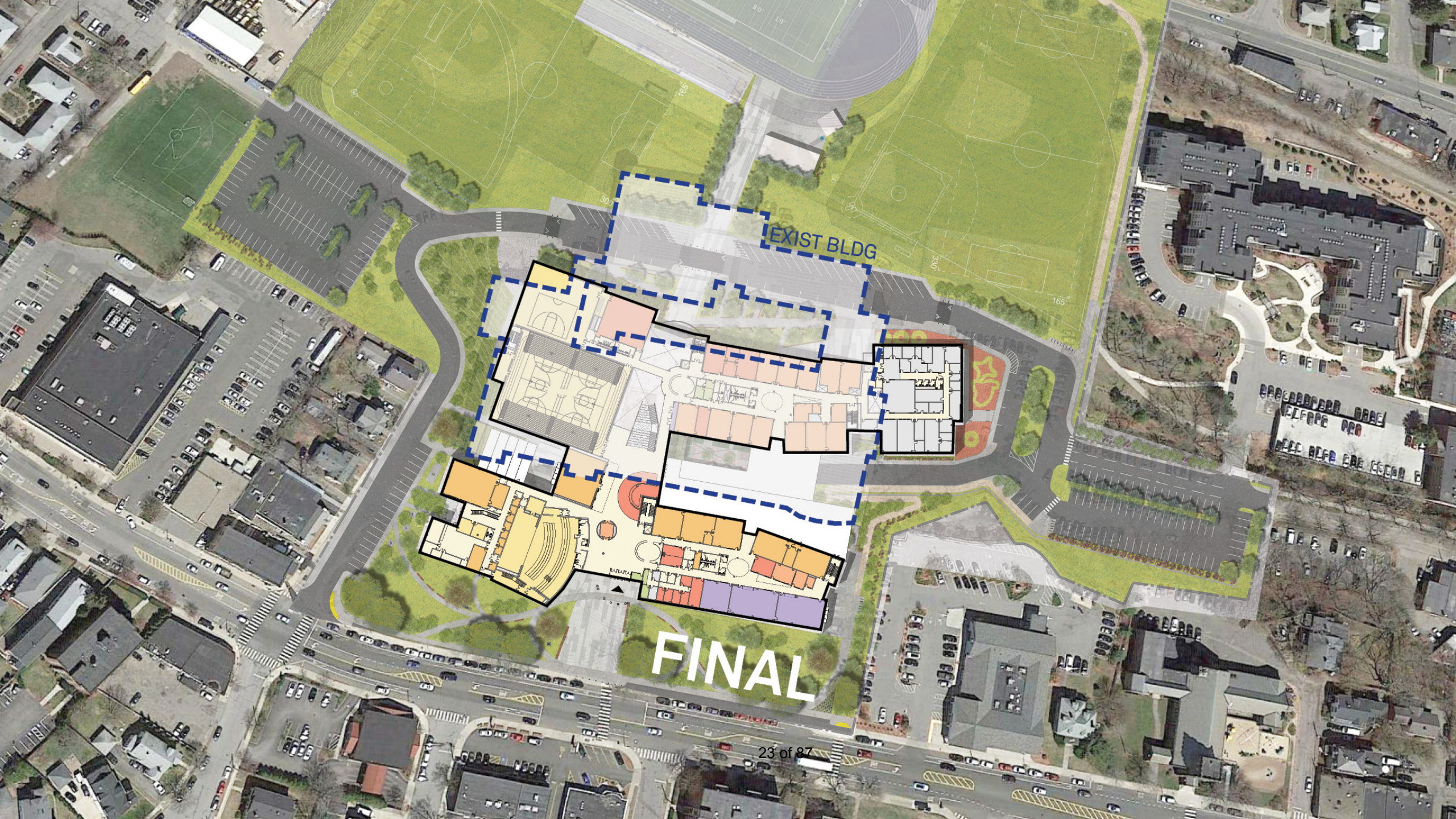
- Fusco façade featured in central spine
- Creative recognition of Collomb House façade at east courtyard
- Preservation and reuse of elements
 - Some original columns
 - Old Hall proscenium, friezes
 - River of Hands mural and Fusco carved wood panel
 - Clock tower mechanism
- Inventory and incorporate memorials







EXISTING



EXIST BLDG

FINAL



PHASE 1

An aerial photograph of a school campus. In the center, a building footprint is overlaid with various colored sections: yellow, orange, red, and purple. The footprint includes a large rectangular section with a grid pattern, a circular area, and several smaller rectangular sections. A large black oval is superimposed over the center of the footprint, containing the text 'PHASE 2'. Surrounding the building are various campus features: a large green soccer field to the top left, a baseball field and a running track to the top, two basketball courts to the right, and several parking lots with cars. Other buildings and trees are visible in the background.

PHASE 2

An aerial photograph of a school campus. In the center, a building footprint is overlaid with various colored sections: yellow, orange, red, white, and purple. A large black circle is drawn around the left side of this footprint. The text 'PHASE 3' is written in bold black letters on a white rectangular background, positioned over the circle and the building footprint. Surrounding the central building are various campus features: a large green soccer field to the top left, a baseball field and a running track to the top, two basketball courts to the right, and several parking lots with cars. Other buildings and trees are visible in the background.

PHASE 3



PHASE 4



Sustainability and Clean Energy Goals

- Make sustainability integral to building design
- Design a highly energy efficient building
- Design for a carbon-neutral, all-electric building
- Use of ground-source heat pump and photovoltaic technology
- Part of Accelerate Performance Program
- A lifecycle analysis will be performed prior to making decisions





Other Sustainability Features & Goals

- Ample daylight, including light wells that bring daylight to interior spaces
- Better pedestrian and bicycle access and safety and direct access to the Minuteman Bikeway
- Planning for an electric vehicle future
- Specifications for environmentally friendly finishes and other building materials
- 100% recovery of food waste from cafeteria



Budget



- \$290.8M project total
 - Estimated Arlington share: \$204.8M
 - Estimated MSBA share: \$86M
- Mass. School Building Authority (MSBA) partnership
 - Strict process ensures that districts are building educationally appropriate and fiscally responsible facilities.
- MSBA's share cannot be increased
- Arlington's share cannot increase without local approval
 - 12% contingency (~\$30M) built into budget
- Value Engineering will continue up until the end of the project



Cost Reductions Already Made

Action	Savings	Effect
Selection of Design Option 3A – New Building (vs. renovating original buildings)	\$25M	Reduced overall project cost
Relocation of Comptroller, Facilities and Information Technology offices	\$8.4M	Reduced overall project cost
Value Engineering	\$7.1M	Reduced overall project cost
Accelerate Performance partnership	\$200,000+ in energy rebates	Reduces lifecycle costs of building



Cost Reductions Already Made

Action	Increase in MSBA Reimbursement
Proactive Building Maintenance Budget	1.61%
LEED (Leadership in Energy & Environmental Design) Certification	2%
Construction Manager at Risk delivery method	1%

High School Benchmark Analysis

	Arlington	Waltham** (Vocational Included)	Belmont (Upper Middle Included)	Saugus (Upper Middle Included)	Somerville (Vocational Included)
Total Project Cost	\$291M	\$381M	\$295M	\$160M	\$256M
Total Project Cost Escalated to AHS Schedule	\$291M	\$381M	\$311M	\$180M	\$287M
Construction Cost Per Sq. Ft.	\$576	Unknown	\$560	\$533	\$606
Design Enrollment	1,755	1,830	2,215	1,360	1,590
Project Cost Per Pupil *	\$165,728	\$208,357	\$140,409	\$132,499	\$181,098

Analysis escalated to AHS schedule. Refer to www.ahsbuilding.org for the complete analysis. *Cost per pupil calculation includes sq. ft. for non-HS program space, Arlington has more non-HS space than comparable projects. **Waltham data is from the Preferred Schematic Report, Schematic Design figures are not yet available.



Estimated Taxpayer Impact

Dwelling	Average Assessed Value (Jan. '19)	Annual Tax Impact (full load)
Condominium	\$464,795	\$496
Single Family Home	\$752,184	\$802
2 Family Home	\$860,758	\$918
3 Family Home	\$915,450	\$976

Note: Belmont households will pay an average of \$1,800/year for their HS

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Maintenance

- Facilities Department created in 2015
- Proactive asset management database details all building systems and prescribes all required maintenance
- Hired HVAC and trades personnel
- Ensures investment in the High School will be well cared for
- Receiving 1.61% additional MSBA reimbursement for submitting a proactive and detailed maintenance plan



What if...?



The Consequences of a ‘No’ Vote

- More burden on taxpayers
- Longer construction and completion date

	‘No’ Vote Renovation/Addition	New High School
Estimated cost to Arlington taxpayers	\$259M	\$205M
Estimated contribution from MSBA	\$0	\$86M
Annual tax impact on single family home	\$1,014	\$802



The Result

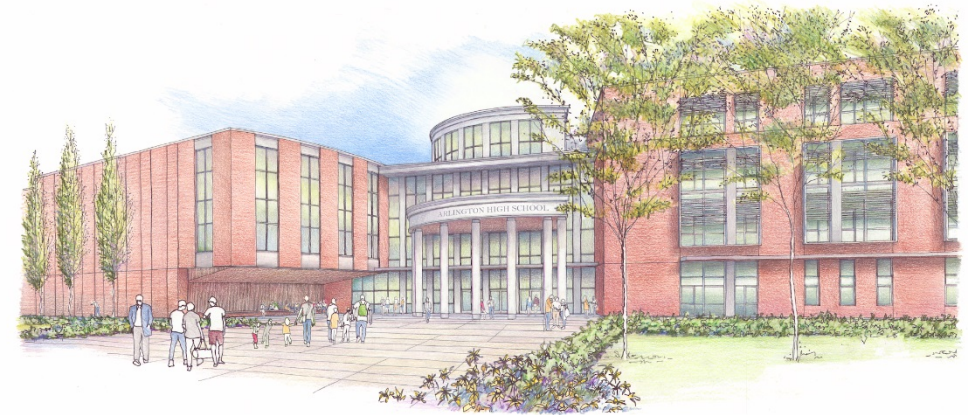
- Vastly inferior school
- Many major windowless educational spaces
- Auditorium seating reduced from 916 to 566 seats to comply with ADA
- Numerous additional classrooms obstructed by columns
- Several undersized spaces (visual/performing arts, cafeteria, library)
- Layout and wayfinding worsened due to scattered departments





Thank you

- We have a chance to shape the future
- Meets 21st century Educational Vision
- Addresses enrollment growth
- Best project for Arlington



We respectfully ask for your support.



Town of Arlington, Massachusetts

ARB Property Portfolio updates

Summary:

- 8:15 p.m. -
8:45 p.m.
- 23 Maple Street lease extension
 - STEP extension
 - Central School renovation update
 - Senior Center proposed name change

Staff will present updates and Board members will review, discuss, and vote.

ATTACHMENTS:

Type	File Name	Description
▢ Reference Material	Agenda_Item_2_-_Memo_regarding_lease_updates_5-16-19.pdf	Memo regarding lease updates 05-16-19
▢ Reference Material	Agenda_Item_2_-_Letter_from_CB_to_JR_Re-Naming_of_27_Maple_Street.pdf	Letter from CB to JR Re-Naming of 27 Maple Street



TOWN OF ARLINGTON
DEPARTMENT OF PLANNING and
COMMUNITY DEVELOPMENT

TOWN HALL, 730 MASSACHUSETTS AVENUE
ARLINGTON, MASSACHUSETTS 02476
TELEPHONE 781-316-3090

MEMORANDUM

To: Arlington Redevelopment Board

From: Jennifer Raitt, Director, Planning and Community Development

Date: May 16, 2019

RE: ARB Property Portfolio Updates

23 Maple Street lease extension

The 23 Maple Street building lease commenced on July 1, 2015 and will terminate on June 30, 2020. The lease includes an option to extend beyond the initial term for one extension period for a total of a five (5) year extension to 11:59 P.M. on June 30, 2025. The ARB needs to provide this option to extend to the Tenant in writing by June 30, 2019.

After considering the entire ARB portfolio, Town building and capital needs, I recommend not extending this lease for an additional five years.

STEP extension

The lease with Schools for Children (STEP Program) is through June 30, 2019 with an option to extend on a month-by-month basis for an additional six (6) months to December 31, 2019. The lessee intends to exercise this option and will notify the Department of their intention to stay on a monthly basis.



Town of Arlington

Department of Health and Human Services

27 Maple Street
Arlington, MA 02476

Tel: (781) 316-3170
Fax: (781) 316-3175

MEMO

TO: Jenny Raitt, Planning and Community Development Director

FROM: Christine Bongiorno, Director of Health and Human Services

DATE: April 4, 2019

RE: Re-Naming of 27 Maple Street

As you are aware, the Central School building, located at 27 Maple Street, also known as the Multipurpose Arlington Senior Center was designated as such in the early 1980s. As we move towards bringing the Center into the 21st century through the planned renovation in FY20, we would like to ask the Arlington Redevelopment Board for their approval to rename the building as the Arlington Community Center, which will go into effect once the building is re-opened.

This name change represents a movement across the country to shift away from terminology such as senior and elder, towards more age-friendly and inclusive terminology. The name change concept has been brought to both the Council on Aging Board as well as the Arlington Seniors Association.

We are in the beginning stages of planning to embark on a capital fundraising campaign to raise funds to furnish the ground floor and first floor of the soon to be renovated building, as well as provide the funding for the audio visual equipment for the space. With this plan, we hope to have this name change approved as soon as possible, so that the newly renovated space can be referred to in the marketing materials as our updated and redesigned space in the newly named Arlington Community Center.



Town of Arlington, Massachusetts

Correspondence received

Summary:

Correspondence received: MA Department of Environmental Protection Issuance of Chapter 91 Waterways License 14829 re: Spy Pond erosion control project

ATTACHMENTS:

Type	File Name	Description
Reference Material	Correspondence_1- _Email_from_DEP_Waterways_050619_Re_Public_Notice_of_Issuance_of_Ch_91_Waterways_License_14829.pdf	Correspondence - Email from DEP Waterways 050619 Re Public Notice of Issuance of Ch 91 Waterways License 14829
Reference Material	Correspondence_1-Issuance_of_Ch_91_Waterways_License_14829.pdf	Correspondence - Issuance of Ch 91 Waterways License 14829
Reference Material	Correspondence_1-Issuance_of_Ch_91_Waterways_License_14829_2.pdf	Correspondence - Issuance of Ch 91 Waterways License 14829_2

From: "Waterways, DEP (DEP)" <dep.waterways@state.ma.us>
"jraitt@town.arlington.ma.us" <jraitt@town.arlington.ma.us>,
To: "achapdelaine@town.arlington.ma.us" <achapdelaine@town.arlington.ma.us>,
"esullivan@town.arlington.ma.us" <esullivan@town.arlington.ma.us>, "Marold, Misty-Anne (FWE)"
<misty-anne.marold@state.ma.us>, "hilary.holmes@hatch.com" <hilary.holmes@hatch.com>
Cc: "You, Susan (DEP)" <susan.you@state.ma.us>
Date: 05/06/2019 04:36 PM
Subject: PUBLIC NOTICE: Issuance of Chapter 91 Waterways License 14829

Hello,

Please see the attached:

Re: ISSUANCE of Chapter 91 WATERWAYS LICENSE No. 14829 for Application No. W18-5340 -
Shoreline Ecological Restoration Project, 0 Pond Ln, Waters of Spy Pond, Arlington, Middlesex
County

Mylar Tracking Number: 7018 0360 0001 1555 8950

Thank you,

Chapter 91 Waterways Program
Massachusetts Department of Environmental Protection
One Winter Street – 5th Floor | Boston, MA 02108
☎ 617-292-5929 | Email - DEP.Waterways@mass.gov

Visit Chapter 91/MassDEP on the Web: <https://www.mass.gov/guides/chapter-91-the-massachusetts-public-waterfront-act>

Attachments:

File: [WW014829.pdf](#) Size: 1632k Content Type: application/pdf

File: [DEP014829.pdf](#) Size: 1525k Content Type: application/pdf



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

One Winter Street Boston, MA 02108 • 617-292-5500

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

Arlington Park and Recreation Commission
c/o Hatch Associates Consultants, Inc.
27 Congress Street, Suite 508
Salem, MA 01970
Attn: Hilary Holmes

MAY - 7 2019

RE: ISSUANCE OF CHAPTER 91 WATERWAYS LICENSE
Waterways License Application No. W18-5340 License No. 14829
Shoreline Ecological Restoration Project, 0 Pond Ln
Waters of Spy Pond, Arlington, Middlesex County

Dear Ms. Holmes,

The Department of Environmental Protection hereby issues the above-referenced Waterways license, enclosed, authorizing you to perform certain activities pursuant to M.G.L. c. 91, the Public Waterfront Act and its regulations 310 CMR 9.00. Any change in use or alteration of any structure or fill not authorized by this license shall render this license void.

No work shall be undertaken until the License has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property.

RECORDING OF THE LICENSE

This License must be recorded at the Middlesex South Registry of Deeds or, if registered land, with the Land Registration Office within sixty (60) days from the date of license issuance. In the case of recorded land, the License shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the project is located. In the case of the registered land, the License shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the project is located. Failure to record this license within sixty (60) days of the date of issuance will render this license void pursuant to 310 CMR 9.18.

A Waterways License Recordation Notice Form has been enclosed for your use in notifying the Department of the recording information for this License. Failure to notify the Department of the recording of this license is a violation of 310 CMR 9.00 and is subject to enforcement action by the Department.

RE: ISSUANCE OF CHAPTER 91 WATERWAYS LICENSE

Waterways License NO. 14829

Shoreline Restoration Stabilization, 0 Pond Ln
Waters of Spy Pond, Arlington, Middlesex County

CERTIFICATE OF COMPLIANCE

Pursuant to 310 CMR 9.19, once the licensed project is complete, the Licensee must file a Request for a Certificate of Compliance form, BRP WW05, within sixty (60) days of completion but in no event later than five (5) years from the License's issuance date. The license for any project for which such a request is not filed and certificate issued may be revoked pursuant to 310CMR9.26.

Please feel free to contact Susan You of the Waterways Regulation Program, (617) 556-1198, if you have any questions pertaining to the recording of your Waterways license.

Sincerely,



Ben Lynch
Program Chief
Waterways Regulation Program

cc: Town Manager, Adam Chapdelaine, Town of Arlington
Arlington Planning Board
Arlington Conservation Commission
Misty-Anne R. Marold, Massachusetts Division of Fisheries & Wildlife -NHESP

Enclosure(s) Waterways License # 14829
Notification of Waterways License Recordation form

Hannah Reardon
Department of Environmental Protection
Waterways Regulation Program
1 Winter Street, 5th Floor
Boston, Massachusetts 02108

RE: NOTIFICATION OF RECORDING CHAPTER 91 WATERWAYS LICENSE #14829

Shoreline Restoration Stabilization, 0 Pond Ln
Waters of Spy Pond, Arlington, Middlesex County

Dear Ms. Reardon:

This is to notify you that the above referenced Waterways License was recorded with the appropriate Registry of Deeds/ Land Court for this project location and to provide your office with the following recordation information.

Date Recorded: _____

County Registry of Deeds/ Land Court: _____

Book Number _____, Page Number(s) _____ and

Plan Book Number _____, Page Number(s) _____

Sincerely,

Chapter 91 Waterways Licensee

LICENSE VOID IF NOT RECORDED WITHIN 60 DAYS OF ISSUANCE

The Commonwealth of Massachusetts



No. 14829

Whereas, Town of Arlington Park and Recreation Commission

of -- Arlington -- in the County of -- Middlesex -- and Commonwealth aforesaid, has applied to the Department of Environmental Protection for license to -- install and maintain bank stabilization around portion of Spy Pond and construction and maintain two pile-supported overlook structures, as further described below -----

and has submitted plans of the same; and whereas due notice of said application, and of ~~the time and place fixed for a hearing thereon~~, has been given, as required by law, to the -- Board of Selectman and Town of Administrator--- of the --- Town of Arlington; -----

NOW, said Department, having heard all parties desiring to be heard, and having fully considered said application, hereby, subject to the approval of the Governor, authorizes and licenses the said -----

Town of Arlington Park and Recreation Commission -- subject to the provisions of the ninety first chapter of the General Laws, and of all laws which are or may be in force applicable thereto, to -- stabilize 1,530-linear feet of bank by staking coir fascines and regrading the existing bank to achieve a 3:1 slope, repair and install approximately 200-square feet of rock aprons in three (3) isolated areas for drainage outfall protection, and construct and maintain two (2) timber pile-supported public overlooks with associated deck ramps with a total area of approximately 340-square foot within Chapter 91 jurisdiction -----

in and over waters of the -- Spy Pond -- at 0 Park Lane -- in the -- Town of Arlington-- and in accordance with the locations shown and details indicated on the accompanying License Plan No. 14829, Sheets 1 through 15, prepared by Hatch Associates Consultants, Inc. -----

No specific Legislative Authorizations and/or Licenses have been previously issued for the project site.

The structures authorized hereby shall be limited to the following uses: shoreline stabilization and public access to waterfront open space for passive recreational purposes.

The structures authorized pursuant to this License are valid for an unlimited term pursuant to 310 CMR 9.15(1)(c). The Department may amend the license to authorize a structural alteration upon written request by the licensee accompanied by appropriate plans.

This License is subject to the following Special Conditions and Standard Conditions:

Special Condition 1: The Licensee shall maintain all structures in accordance with the terms and conditions specified herein or this license may expire, pursuant to 310 CMR 9.25(1)(c).

Special Condition 2: Issuance of this authorization does not relieve the Licensee of the obligation to comply with all other applicable state and/or federal statutes or regulations. Any changes made to the project authorized herein will require further notification to and approval by the Department in accordance with the 310 CMR 9.05(1), 9.22(3) or 9.24.

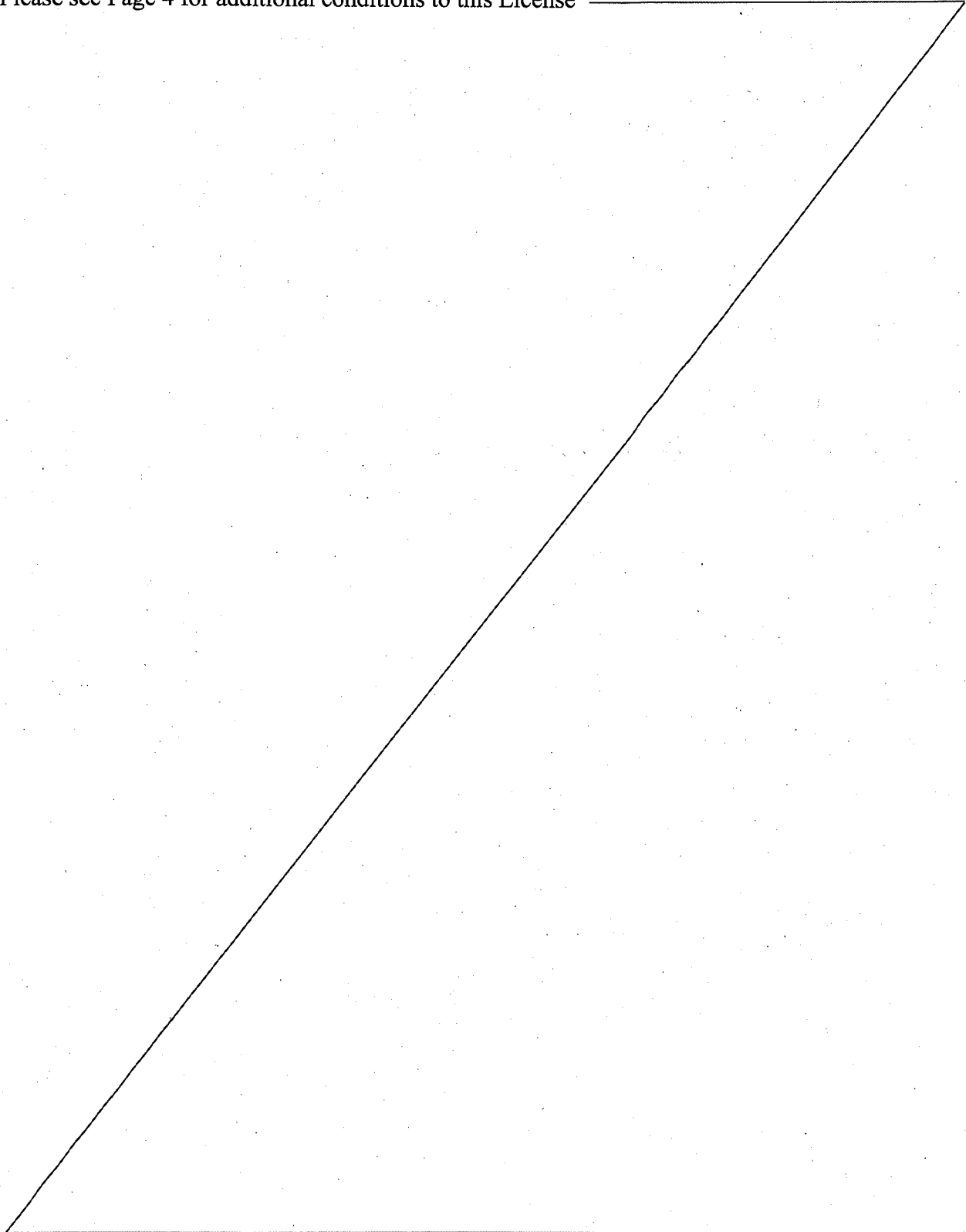
Special Condition 3: All structures authorized under this License shall be constructed to meet the Engineering and Construction Standards pursuant to 310 CMR 9.37.

Special Condition 4: The Licensee shall allow agents of the Department to enter the project site to verify compliance with the conditions of this License.

Special Condition 5: All work authorized herein shall be completed within five (5) years of the date of license issuance. Said construction period may be extended by the Department for one or more one year periods without public notice, provided that the Applicant submits to the Department thirty (30) days prior to the end of the construction period, a written request to extend the period and provides adequate justification for said extension.

Special Condition 6: The Licensee shall request in writing that the Department issue a Certificate of Compliance within sixty (60) days completion of the licensed project, but in no event later than five (5) year from the date of license issuance, or any extension thereof, in accordance with 310 CMR 9.19(1). The request shall be accompanied by a certification by a registered professional engineer licensed to do business in the Commonwealth that the project was completed in accordance with the plans, specifications, and conditions of this License.

Please see Page 4 for additional conditions to this License



Duplicate of said plan, License Number 14829 on file in the office of said Department, and original of said plan accompanies this License, and is to be referred to as a part hereof.

STANDARD WATERWAYS LICENSE CONDITIONS

1. Acceptance of this Waterways License shall constitute an agreement by the Licensee to conform with all terms and conditions stated herein.
2. This License is granted upon the express condition that any and all other applicable authorizations necessitated due to the provisions hereof shall be secured by the Licensee prior to the commencement of any activity or use authorized pursuant to this License.
3. Any change in use or any substantial structural alteration of any structure or fill authorized herein shall require the issuance by the Department of a new License in accordance with the provisions and procedures established in Chapter 91 of the Massachusetts General Laws. Any unauthorized substantial change in use or unauthorized substantial structural alteration of any structure or fill authorized herein shall render this License void.
4. This License shall be revocable by the Department for noncompliance with the terms and conditions set forth herein. This License may be revoked after the Department has given written notice of the alleged noncompliance to the Licensee and those persons who have filed a written request for such notice with the Department and afforded them a reasonable opportunity to correct said noncompliance. Failure to correct said noncompliance after the issuance of a written notice by the Department shall render this License void and the Commonwealth may proceed to remove or cause removal of any structure or fill authorized herein at the expense of the Licensee, its successors and assigns as an unauthorized and unlawful structure and/or fill.
5. The structures and/or fill authorized herein shall be maintained in good repair and in accordance with the terms and conditions stated herein and the details indicated on the accompanying license plans.
6. Nothing in this License shall be construed as authorizing encroachment in, on or over property not owned or controlled by the Licensee, except with the written consent of the owner or owners thereof. The Licensee stated that the Town of Arlington was the property owner at the time the application was submitted.
7. This Waterways License is granted subject to all applicable Federal, State, County, and Municipal laws, ordinances and regulations including but not limited to a valid final Order of Conditions issued pursuant to the Wetlands Protection Act, M.G.L. Chapter 131, §40.
8. This License is granted upon the express condition that the use of the structures and/or fill authorized hereby shall be in strict conformance with all applicable requirements and authorizations of the MassDEP.
9. This License authorizes structure(s) and/or fill on:

_____ Private Tidelands - In accordance with the public easement that exists by law on private tidelands, the Licensee shall allow the public to use and to pass freely upon the area of the subject property lying between the high and low water marks, for the purposes of fishing, fowling, navigation, and the natural derivatives thereof.

_____ Commonwealth Tidelands - The Licensee shall not restrict the public's right to use and to pass freely, for any lawful purpose, upon lands lying seaward of the low water mark. Said lands are held in trust by the Commonwealth for the benefit of the public.

X _____ Great Pond of the Commonwealth - The Licensee shall not restrict the public's right to use and to pass freely upon lands lying seaward of the high water mark for any lawful purpose.

_____ Navigable River or Stream - The Licensee shall not restrict the public's right to use and to pass freely, for any lawful purpose, in the waterway.

No restriction on the exercise of these public rights shall be imposed unless otherwise expressly provided in this License.

10. Unless otherwise expressly provided by this License, the Licensee shall not limit the hours of availability of any areas of the subject property designated for public passage, nor place any gates, fences, or other structures on such areas in a manner that would impede or discourage the free flow of pedestrian movement thereon.

Spy Pond Bank Stabilization, Spy Pond, Arlington, Middlesex County

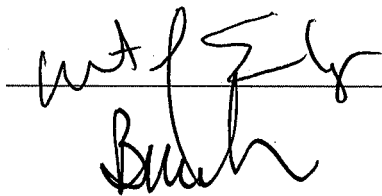
~~The amount of tidewater displaced by the work hereby authorized has been ascertained by said Department, and compensation thereof has been made by the said -- Town of Arlington Park and Recreation Commission -- by paying into the treasury of the Commonwealth -- (N/A) -- for each cubic yard so displaced, being the amount hereby assessed by said Department (N/A).~~

Nothing in this License shall be so construed as to impair the legal rights of any person.

This License shall be void unless the same and the accompanying plan are recorded within 60-days from the date hereof, in the Registry of Deeds for the South District -- of the County of -- Middlesex --

IN WITNESS WHEREAS, said Department of Environmental Protection have hereunto set their hands this 7th day of May in the year two thousand nineteen.

Commissioner



Section Chief



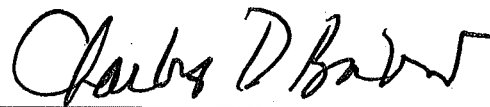
Department of
Environmental Protection

THE COMMONWEALTH OF MASSACHUSETTS

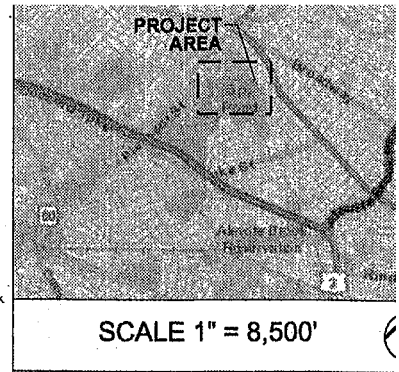
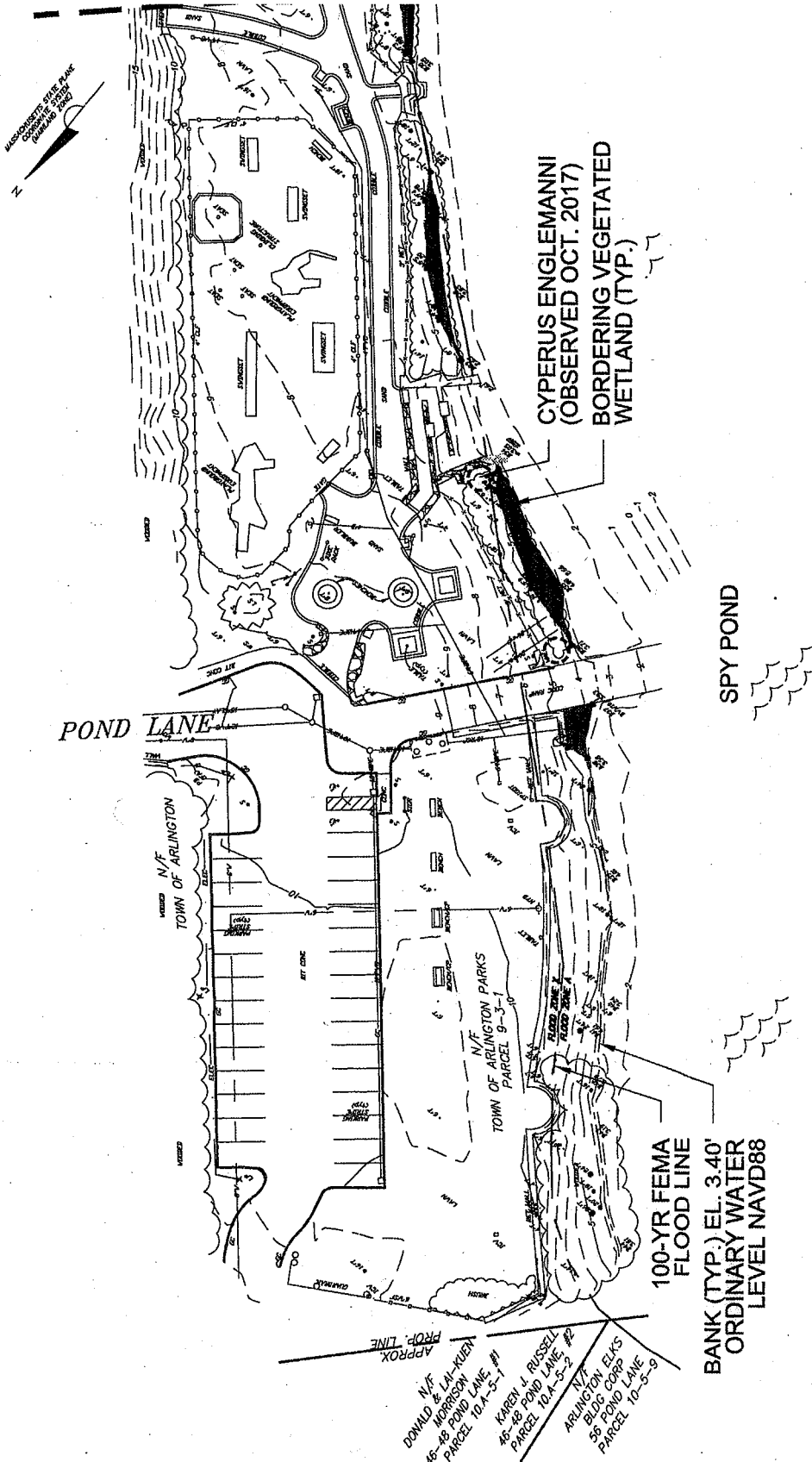
This License is approved in consideration of the payment into the treasury of the Commonwealth by the said -- Town of Arlington Park and Recreation Commission -- the further sum of -- (*exempt pursuant to 310 CMR 9.16(4)(a)*) -- the amount determined by the Governor as a just and equitable charge for rights and privileges hereby granted in the land of the Commonwealth.

BOSTON,

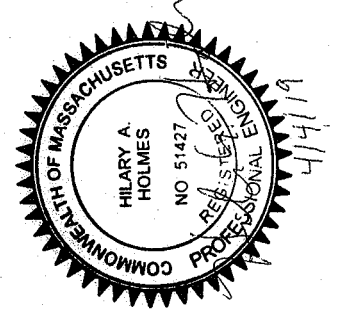
Approved by the Governor.



Governor

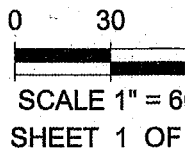


LOCUS PLAN



NOTES:

1. NO BASE FLOOD ELEVATION IS GIVEN ON FEMA MAP 25017C0417E.
2. TYPICAL ORDINARY WATER LEVEL IS ELEVATION 3.4' NAVD88 CORRESPONDING WITH THE OUTLET STRUCTURE WEIR ELEVATION.



PLANS ACCOMPANYING PETITION OF ARLINGTON PARKS AND RECREATION COMMISSION TO RESTORE EXISTING BANK AND INSTALL TWO NEW TIMBER OVERLOOKS AT SPY POND, IN ARLINGTON, MA

PREPARED BY
HATCH ASSOCIATES CONSULTANTS, INC.
SALEM, MA

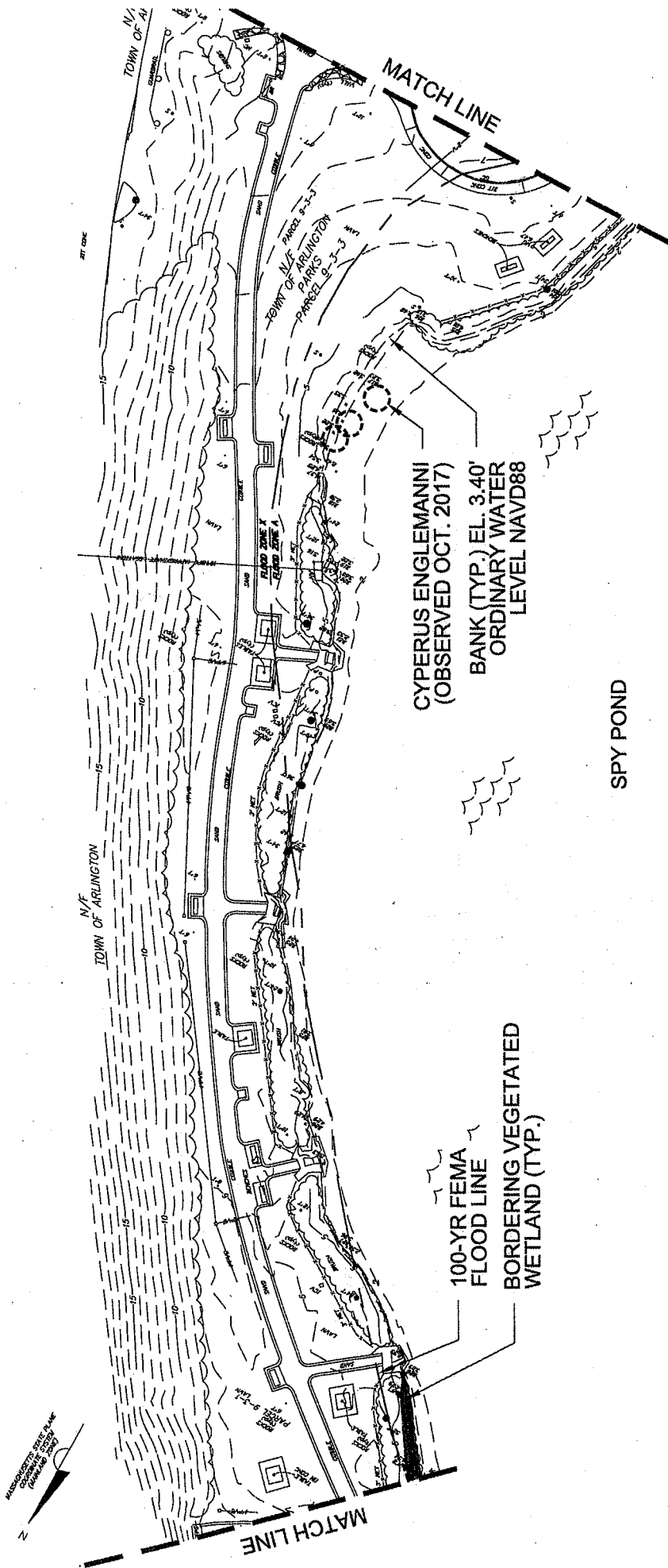
LICENSE PLAN NO. **14829**

Approved by Department of Environmental Protection
of Massachusetts

MAY - 7 2019

[Signature]
53 of 87

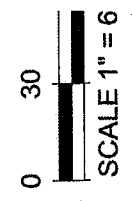
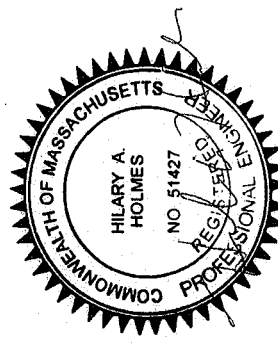
EXISTING CONDITIONS PLAN - AREA 1: SPY POND PARK (NORTH)
SCALE: 1" = 600.0'



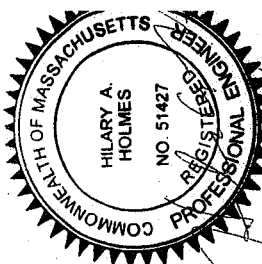
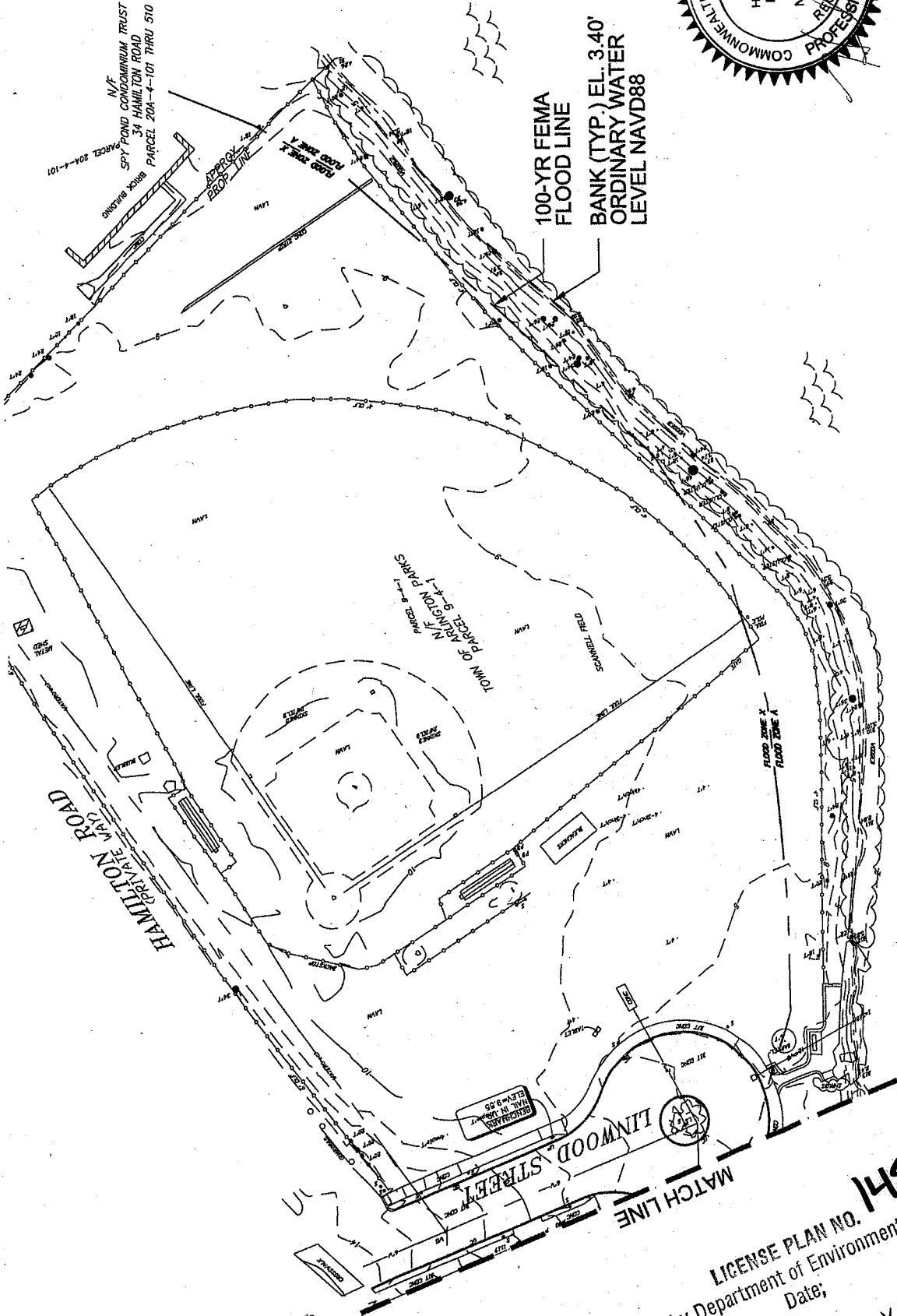
NOTE:
1. SEE SHEET 1 FOR GENERAL NOTES.

14829
LICENSE PLAN NO.

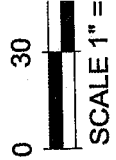
Approved by Department of Environmental Protection
Date, MAY - 7 2019



EXISTING CONDITIONS PLAN - AREA 2: SPY POND PARK (SOUTH)
SCALE: 1" = 60'-0"



NOTE:
1. SEE SHEET 1 FOR GENERAL NO.



SPY POND

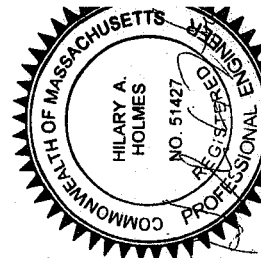
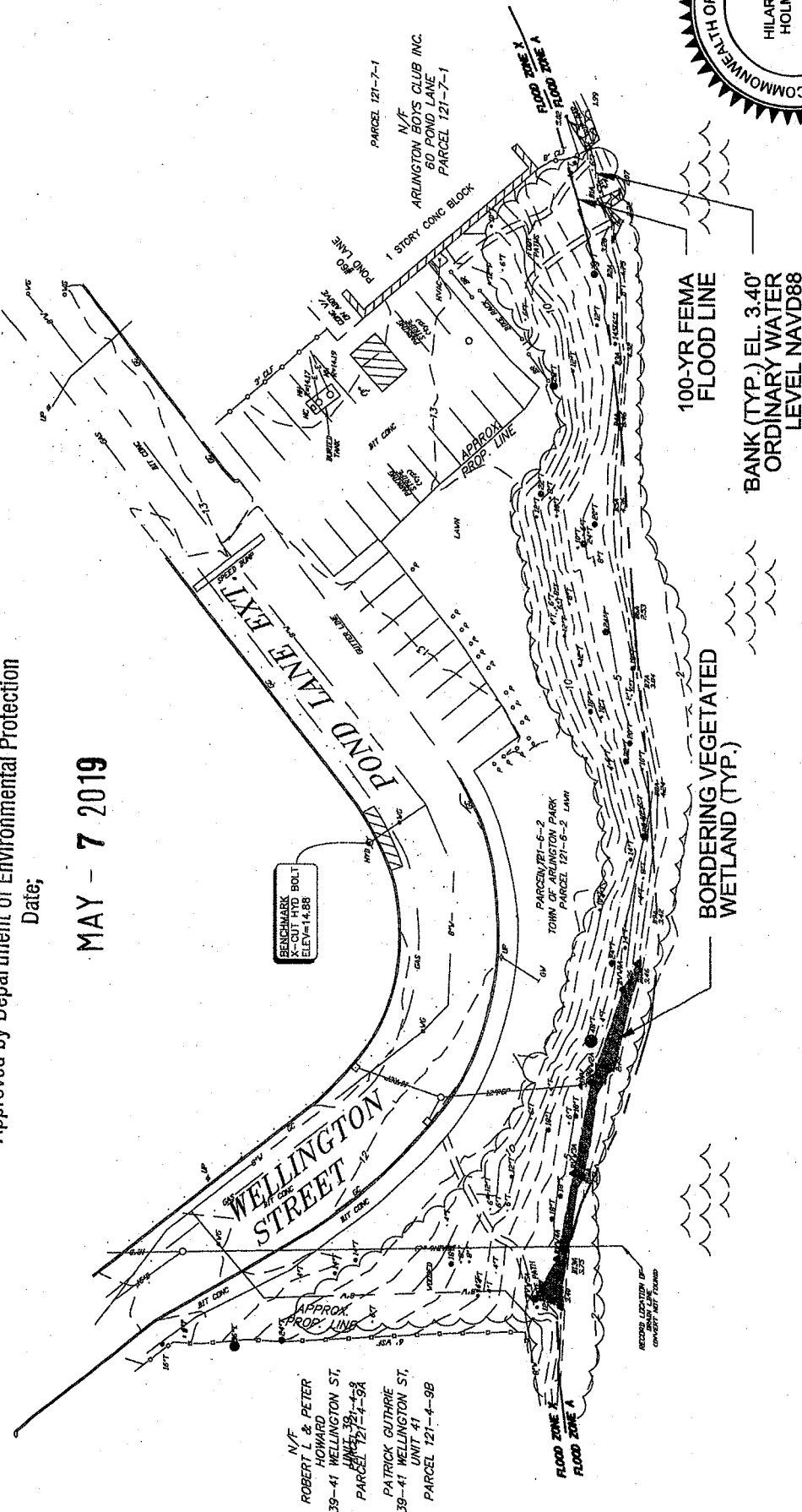
EXISTING CONDITIONS PLAN - AREA 3: SCANNELL FIELD
SCALE: 1" = 60'-0"

LICENSE PLAN NO. 14829
Approved by Department of Environmental Protection
Date: MAY 7 2019

LICENSE PLAN NO. 14829

Approved by Department of Environmental Protection
Date;

MAY - 7 2019



4/4/19
0 25

SCALE 1" = 50'

NOTE:
1. SEE SHEET 1 FOR GENERAL NOTES.

SPY POND

EXISTING CONDITIONS PLAN - AREA 4: BOYS AND GIRLS CLUB
SCALE: 1" = 50'-0"



LICENSE PLAN NO. 14829

Approved by Department of Environmental Protection
Date;

MAY - 7 2019

SPY POND

100-YR FEMA
FLOOD LINE

BANK (TYP.) EL. 3.40'
ORDINARY WATER
LEVEL NAVD88

0 30

SCALE 1" = 40'

PARCEL 122-5-168

N/F
MARIANNE C.D. BARBERA
25487/1
#19 LAKE VIEW

PROP. LINE

BENCHMARK
NAIL IN UP
ELEV=18.93

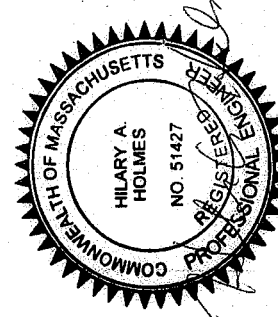
N/F
MARK E. BOUDREAU &
KATHRYN M. ZEILER
66477/63
#17 LAKE VIEW
PARCEL 122-5-17

N/F
MATTHEW S. &
KATHRYN M. JENNINGS
66046/408
#17 LAKE VIEW
PARCEL 122-5-15

SPRING VALLEY

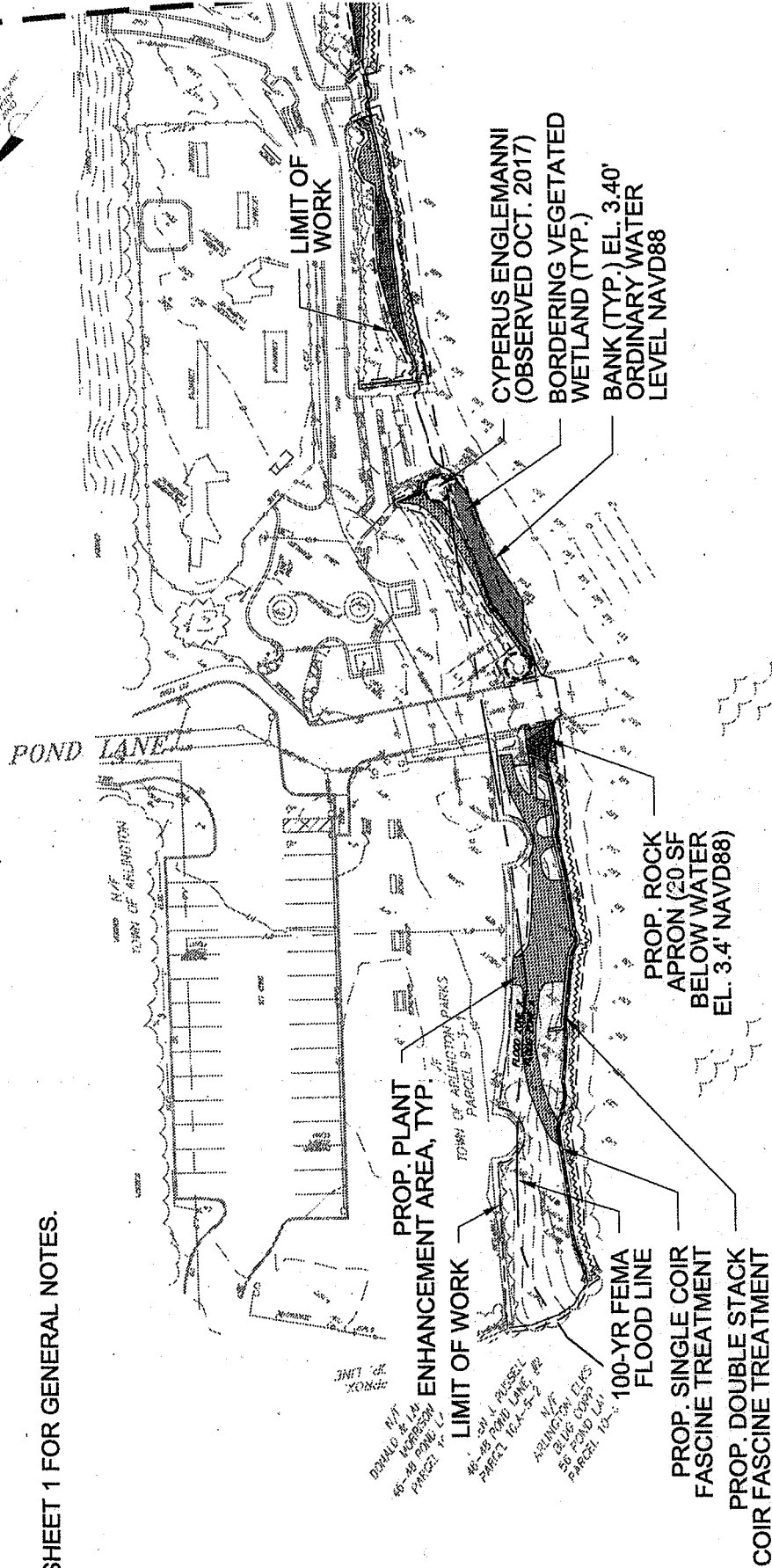
NOTE:
1. SEE SHEET 1 FOR GENERAL NOTES.

EXISTING CONDITIONS PLAN AREA 5: SPRING VALLEY
SCALE: 1" = 40'-0"

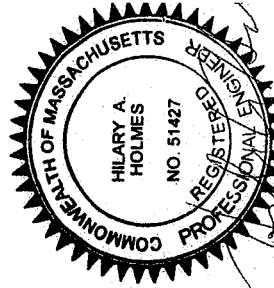


NOTE:

1. SEE SHEET 1 FOR GENERAL NOTES.



SPY POND



14829

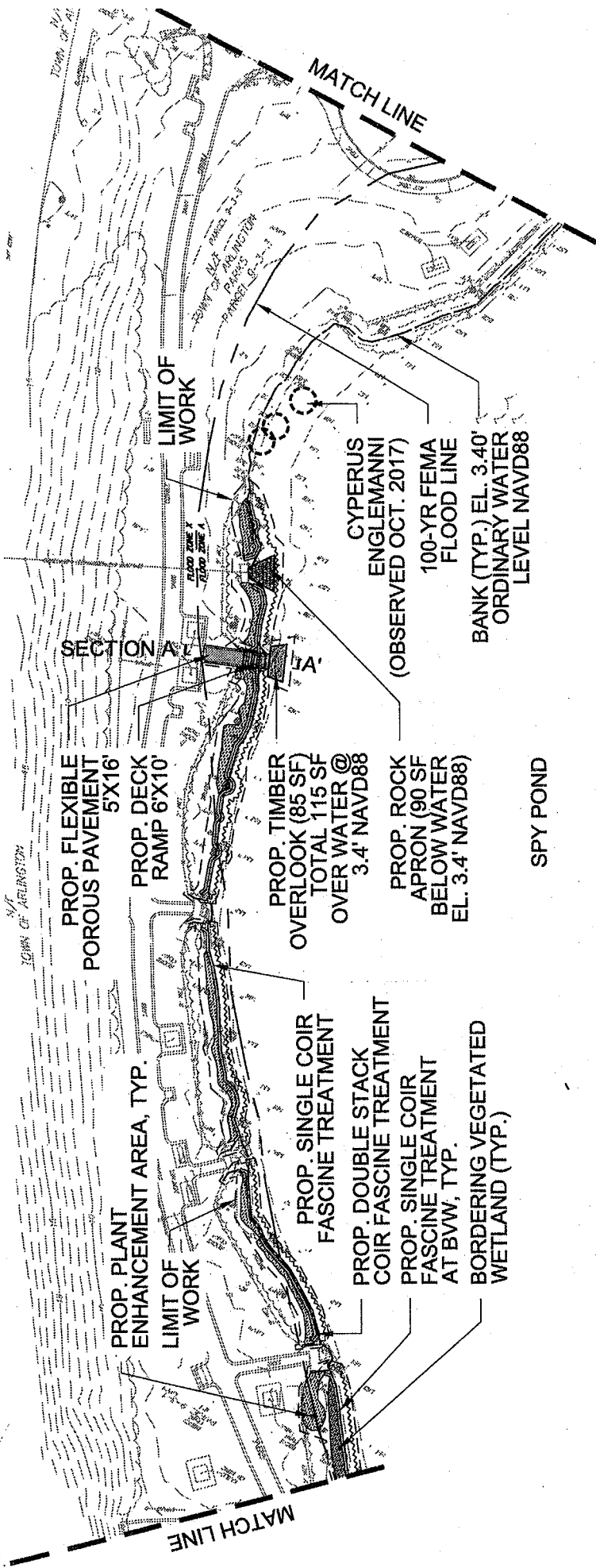
LICENSE PLAN NO.

Approved by Department of Environmental Protection
Date;

MAY 7 2019

PROPOSED CONDITIONS PLAN - AREA 1: SPY POND PARK (NORTH)

SCALE: 1" = 60'-0"



0 30
SCALE 1" = 30'

14829

LICENSE PLAN NO.

Approved by Department of Environmental Protection

Date;

MAY - 7 2019

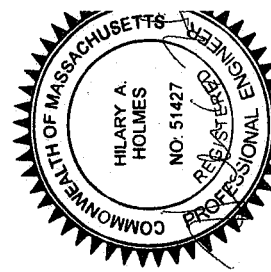
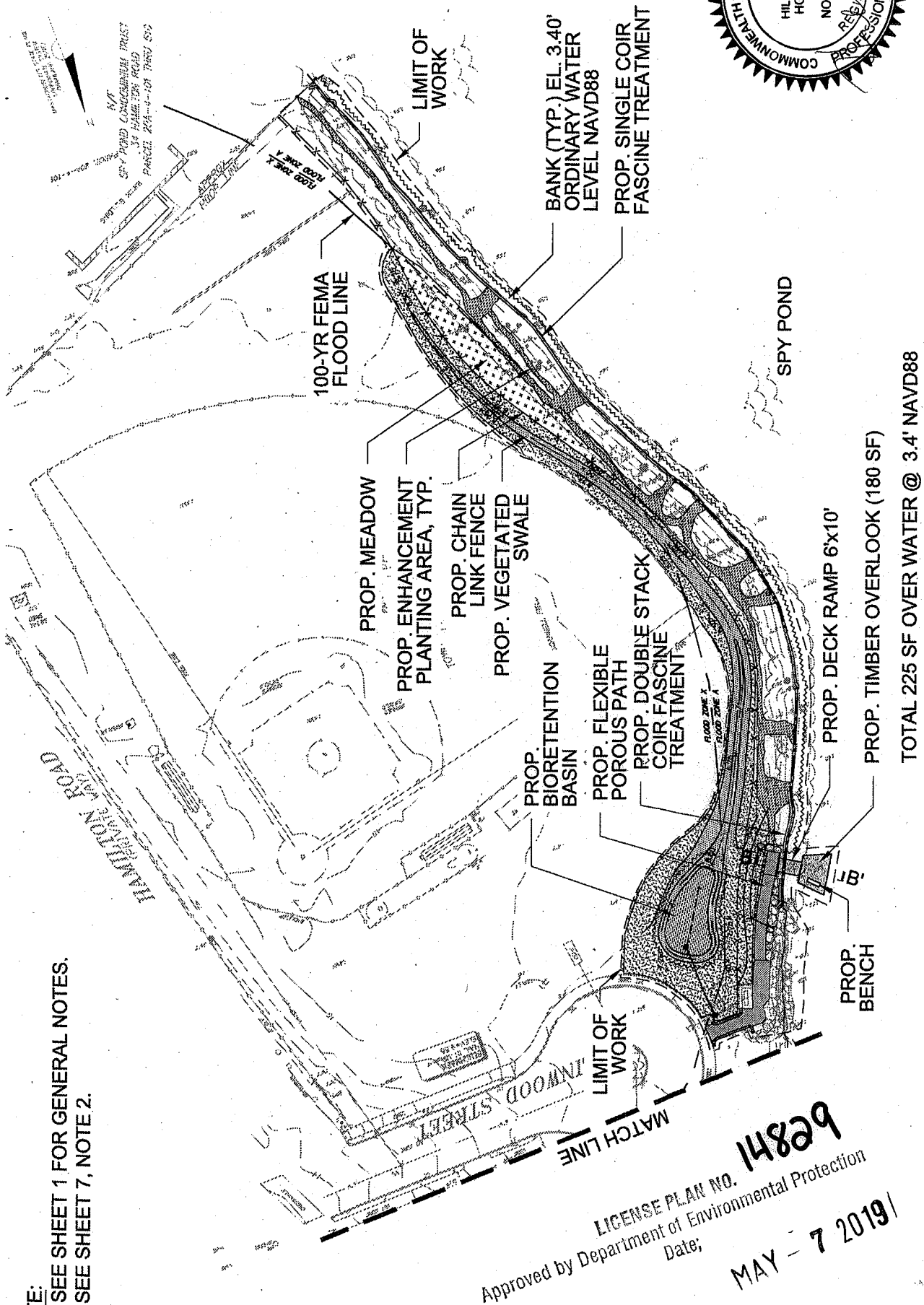
- NOTE:**
1. SEE SHEET 1 FOR GENERAL NOTES.
 2. HELICAL PILING FOR TIMBER OVERLOOKS (2) ARE PROPOSED AND SHOWN IN DETAIL ON SHEET 13 AND 14. NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE REVIEW AND WRITTEN AUTHORIZATION GRANTED BY THE NATURAL HERITAGE ENDANGERED SPECIES PROGRAM (NHESP) REPRESENTATIVES, MASSACHUSETTS DIVISION OF FISHERIES AND WILDLIFE (508.389.6360).

PROPOSED CONDITIONS PLAN - AREA 2: SPY POND PARK (SOUTH)

SCALE: 1" = 60'-0"

NOTE:

1. SEE SHEET 1 FOR GENERAL NOTES.
2. SEE SHEET 7, NOTE 2.



0 30
SCALE 1" = 60'

TOTAL 225 SF OVER WATER @ 3.4' NAVD88

PROPOSED CONDITIONS PLAN - AREA 3: SCANNELL FIELD
SCALE: 1" = 60'-0"

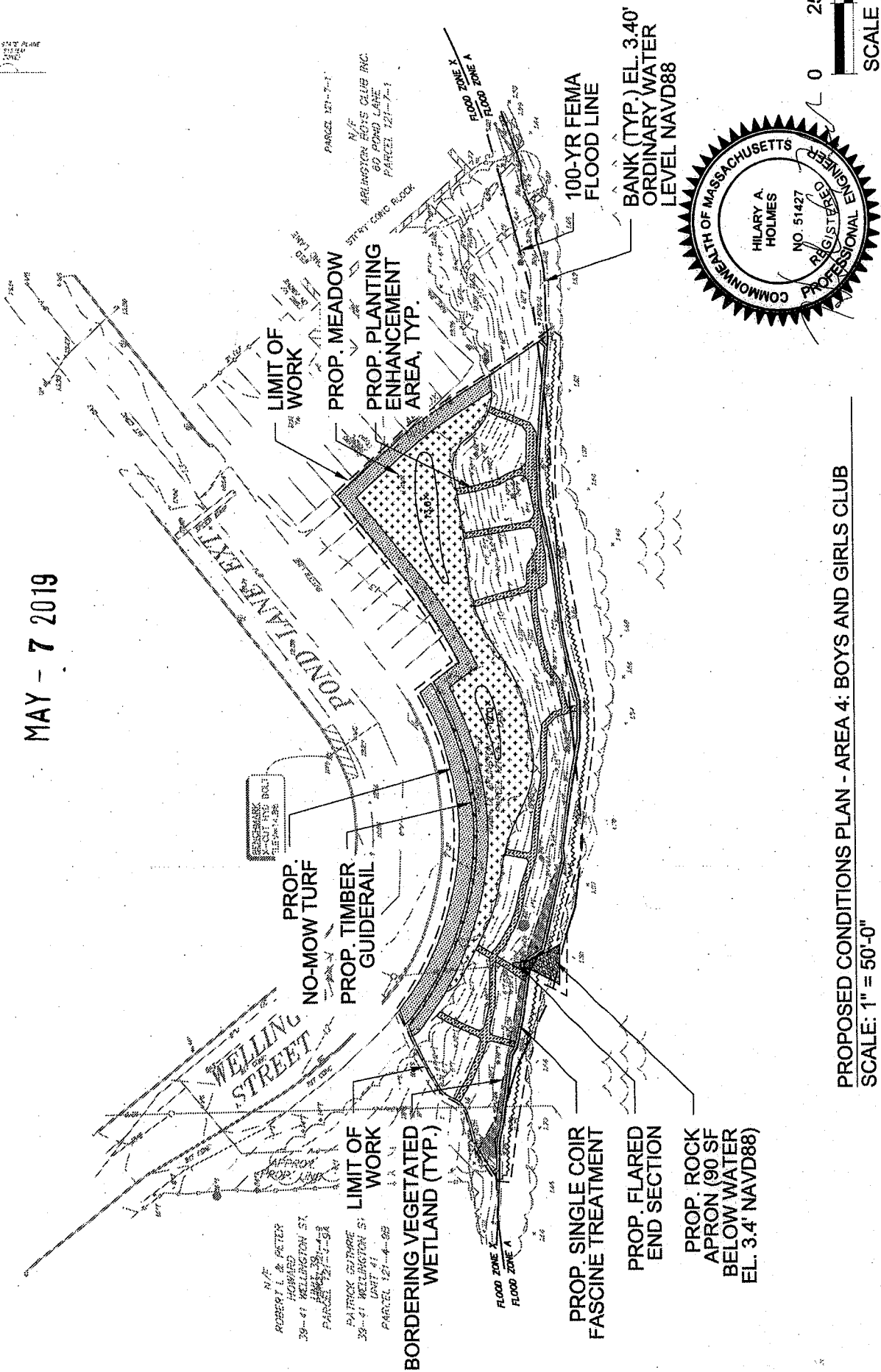
14829
LICENSE PLAN NO.
Approved by Department of Environmental Protection
Date;
MAY - 7 2019

NOTE:

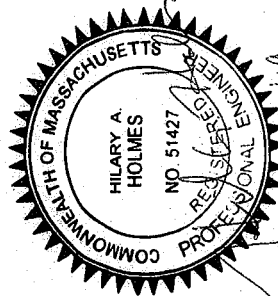
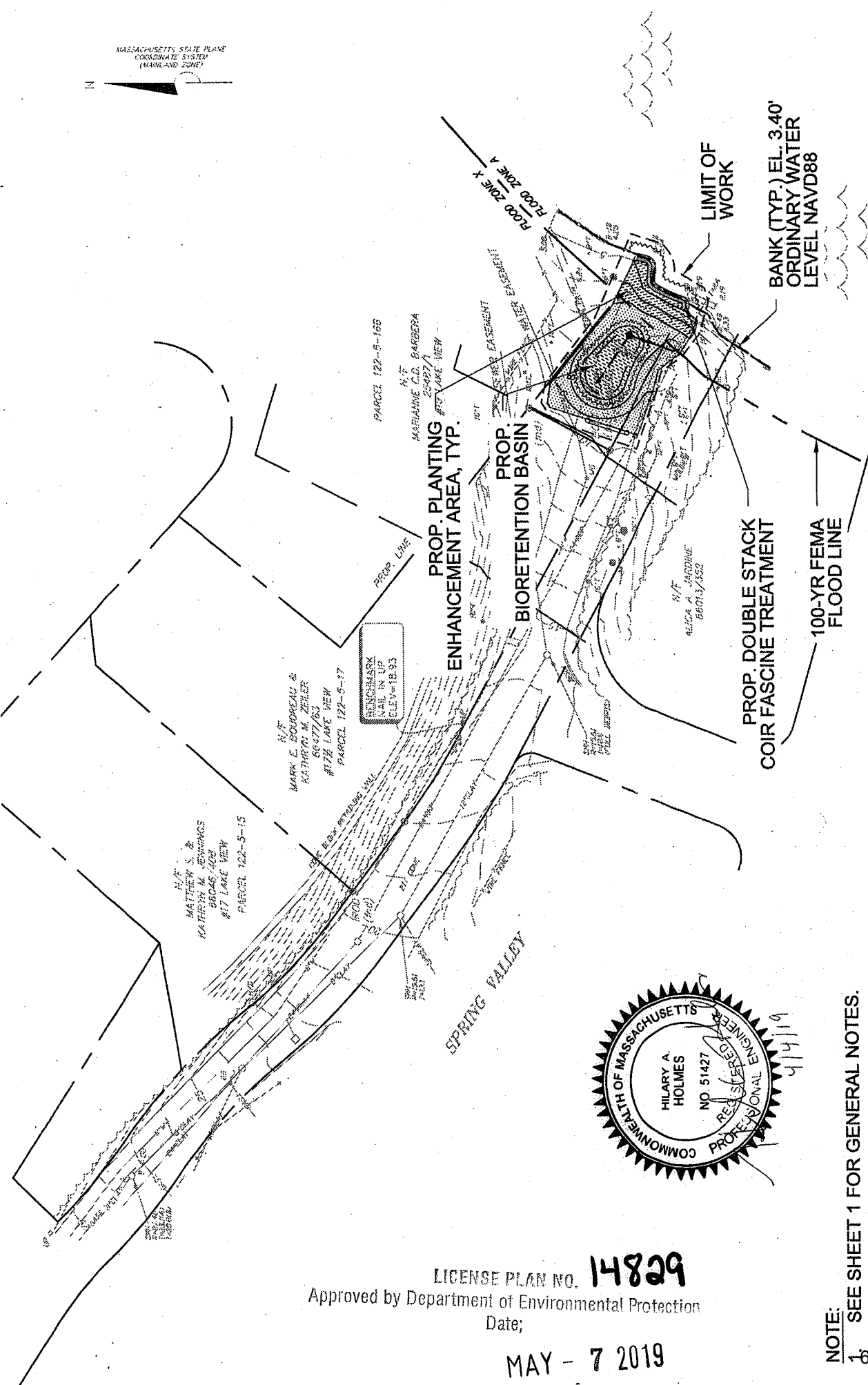
1. SEE SHEET 1 FOR GENERAL NOTES.

LICENSE PLAN NO. 14829
Approved by Department of Environmental Protection
Date;

MAY - 7 2019



PROPOSED CONDITIONS PLAN - AREA 4: BOYS AND GIRLS CLUB
SCALE: 1" = 50'-0"

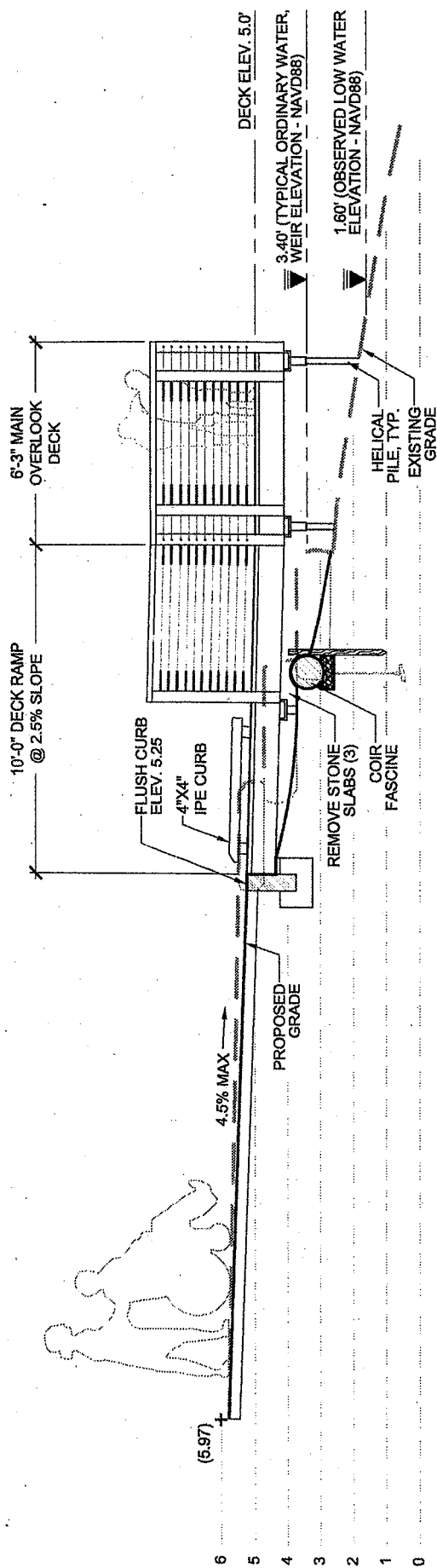


LICENSE PLAN NO. **14829**
Approved by Department of Environmental Protection
Date;

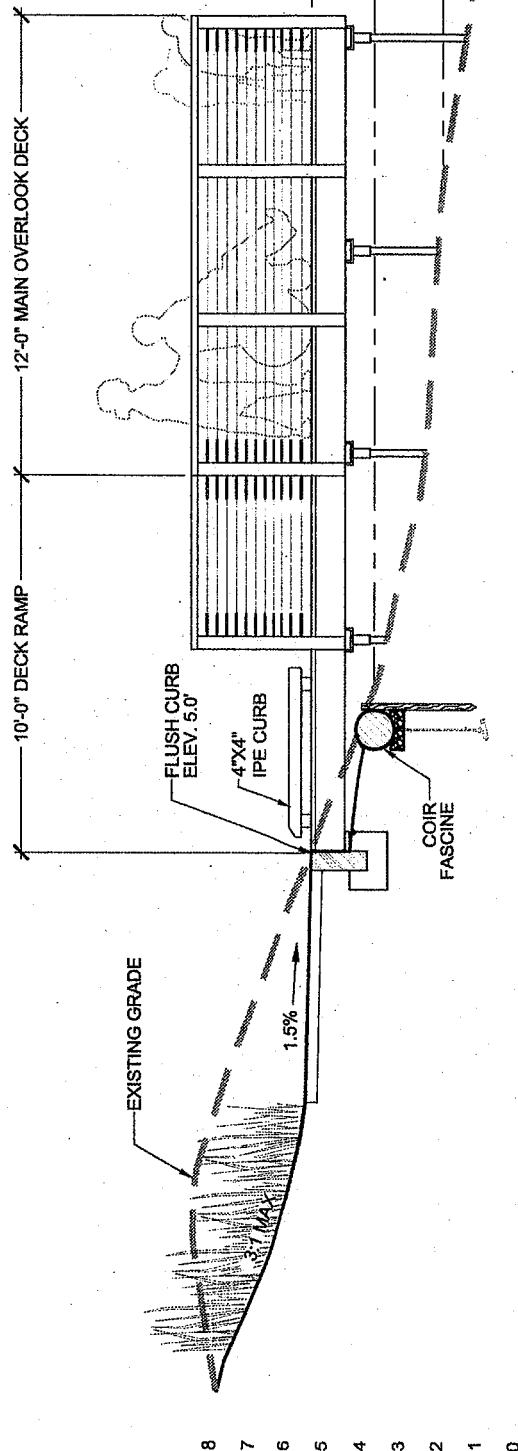
MAY - 7 2019

NOTE: SEE SHEET 1 FOR GENERAL NOTES.

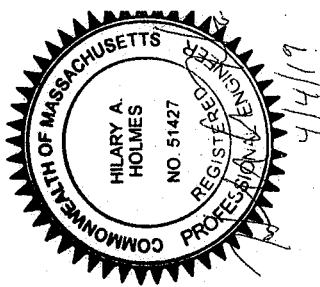
PROPOSED CONDITIONS PLAN - AREA 5: SPRING VALLEY
SCALE: 1" = 40'-0"



SECTION A-A: TIMBER OVERLOOK (NORTH)
SCALE: 1"=5'-0"

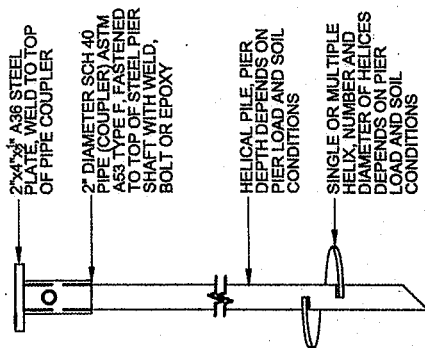
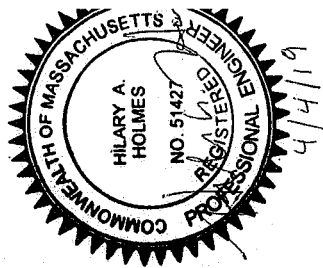


SECTION B-B: TIMBER OVERLOOK (SOUTH)
SCALE: 1"=5'-0"



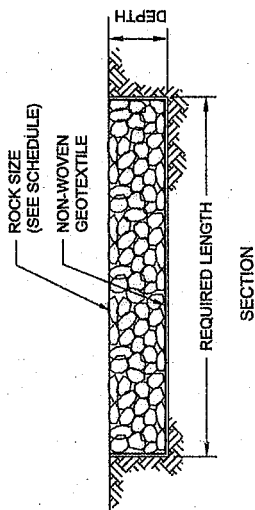
LICENSE PLAN NO. **14829**
Approved by Department of Environmental Protection
Date; **MAY - 7 2019**

3.40' (TYP ORDINARY WATER WEIR EL. - NAVD88)



HELICAL PILE

HELICAL PILE
SCALE: NTS



PLAN VIEW

ROCK APRON DESIGN SCHEDULE

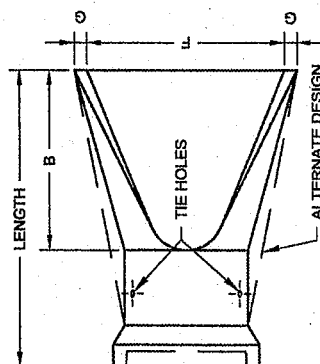
DISCHARGE PIPE LOCATION	APRON TYPE	PIPE DIA. (IN)	TOP WIDTH (FT)	LENGTH (FT)	WIDTH (FT)	ROCK SIZE	REQUIRED DEPTH (FT)
SPY POND PARK (NORTH)	RIPRAP	18	4.5	10	14.5	D50=6"	1.5
SPY POND PARK (SOUTH)	RIPRAP	18	4.5	10	14.5	D50=6"	1.5
NEAR BOYS & GIRLS CLUB	RIPRAP	12	3	11	14	D50=6"	1.5

ROCK APRON
SCALE: NTS

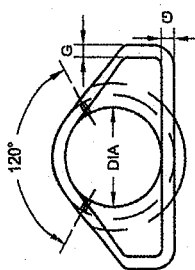
LICENSE PLAN NO. 14829
Approved by Department of Environmental Protection
Date: MAY 7 2019

PIPE DIA	LENGTH	SLOPE	T	A	B	F	G	WEIGHT/SECTION (LBS)
12"	6'-0"	1V:3H	2'	4'	24'	24'	2'	530

TIE BOLT HOLES ARE PROVIDED FOR THE INSTALLATION OF TIE BOLTS BETWEEN THE FLARED END SECTION AND THE ADJACENT PIPE.



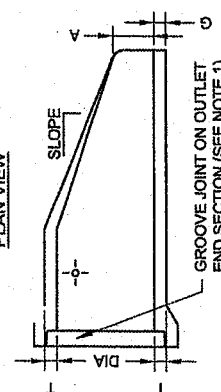
PLAN VIEW



END VIEW

NOTE:

THE JOINTS ARE TO BE COMPATIBLE WITH THE MAIN RUN OF PIPE. CONTRACTOR TO FIELD VERIFY PRIOR TO ORDERING FLARED END.



LONGITUDINAL SECTION

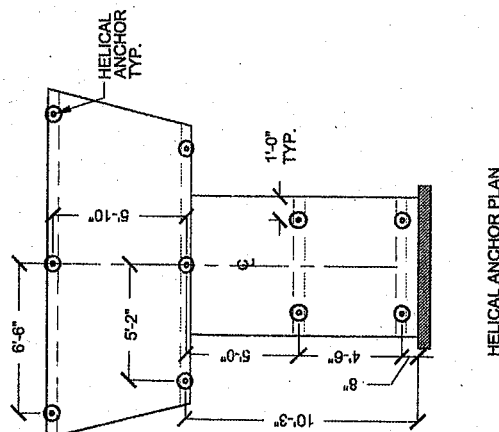
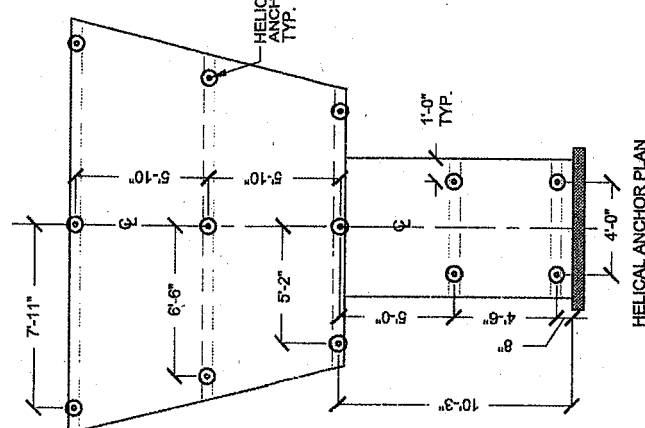
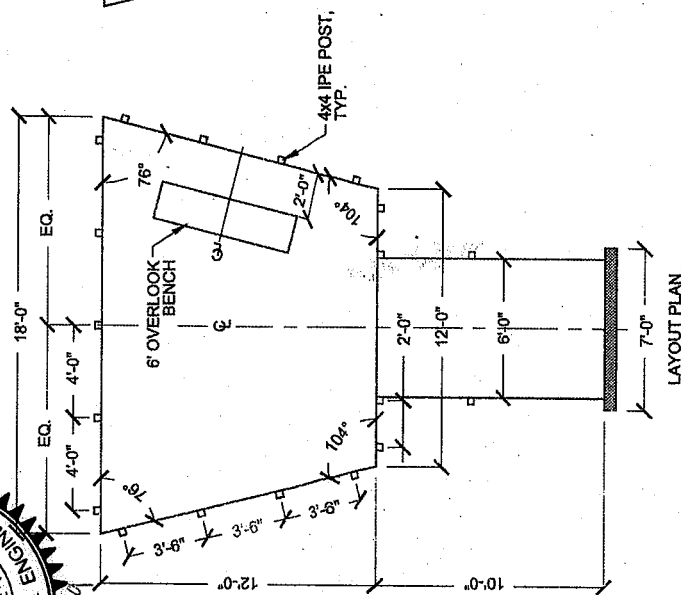
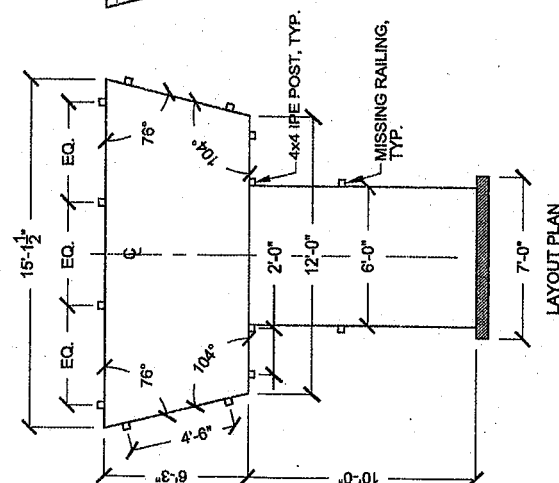
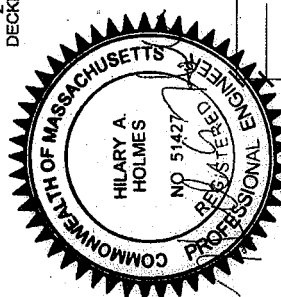
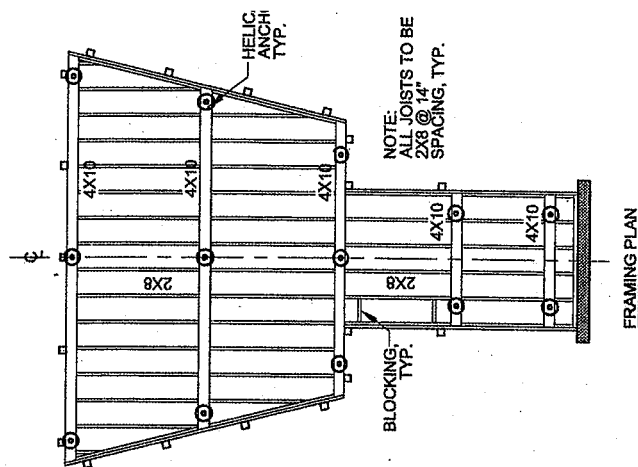
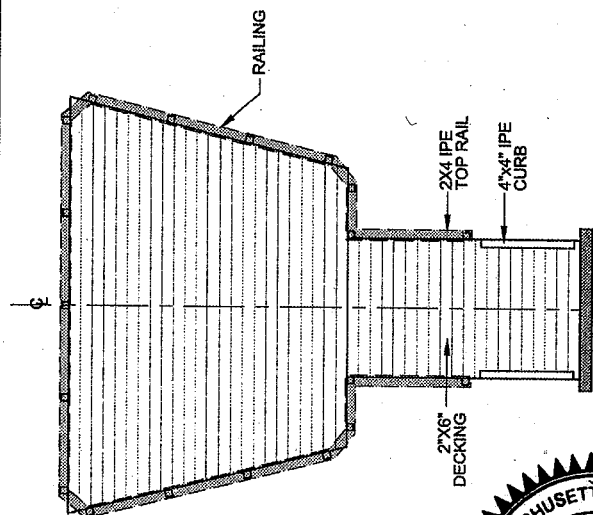
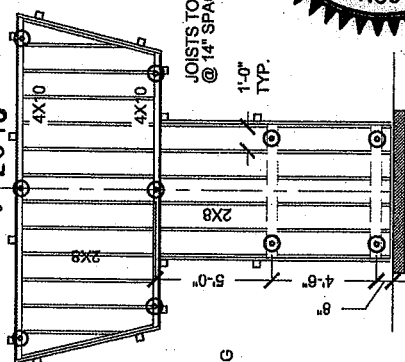
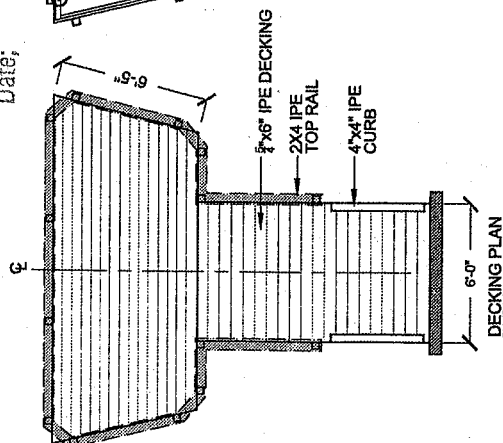
FLARED END OUTLET
SCALE: NTS

14829

Approved by Department of Environmental Protection

100

MAY - 7th 2019



65 of

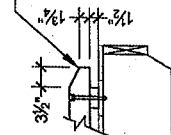
OVERLOOK STRUCTURE (NORTH)

SCALE: NTS

TIMBER OVERLOOK (SOUTH)

SCALE: NTS

4"x4" IPE CURB BOLTED TO 2"x4"x6" IPE BLOCK AND DECKING WITH 3/8" Ø CARRIAGE BOLT, TYP. COUNTERSINK CARRIAGE BOLT, TYP.



IPE CURB END TREATMENT

2"x8" PRESSURE TREATED JOISTS, FASTENED TO BEAM WITH SIMPSON STRONGTIE CO. JOIST HANGERS. SKEW AS REQUIRED AT PERIMETER JOISTS AND PROVIDE CONCEALED FLANGE HANGER

1"x8" IPE TRIM BOARD

4X10

5/4"x6" IPE DECKING, TYP.
#10 2 1/2" STAINLESS STEEL FLAT HEAD SCREW, 18 PER BOARD, 3/JOIST
1" GAP BETWEEN IPE DECKING PLANKS, TYP.

4"x4" IPE CURB, FASTENED TO DECK WITH 3/8" Ø GALVANIZED LAG SCREWS AT 1'-6" (MAX) SPACING

BOARDWALK ABUTMENT

2

1-7

FLUSH GRANITE CURB

FLEXIBLE POROUS PAVEMENT

1'-0" TYP.

3'-0" TYP.

DIMENSION VARIES INSIDE FACE OF CURBS

VARIES

PLAN

3/8" TYP. (5) EQ. SPACING, SEE PLAN

2"x4"x6" IPE RISERS SPACED EVERY 5 LF (SEE IPE CURB END TREATMENT)

2"x8" PRESSURE TREATED JOIST, TYP.

2"x6" PRESSURE TREATED SILL PLATE

BOARDWALK ABUTMENT

2

1-7

SECTION (TYP.)

LICENSE PLAN NO.

14829

Approved by Department of Environmental Protection
Date;

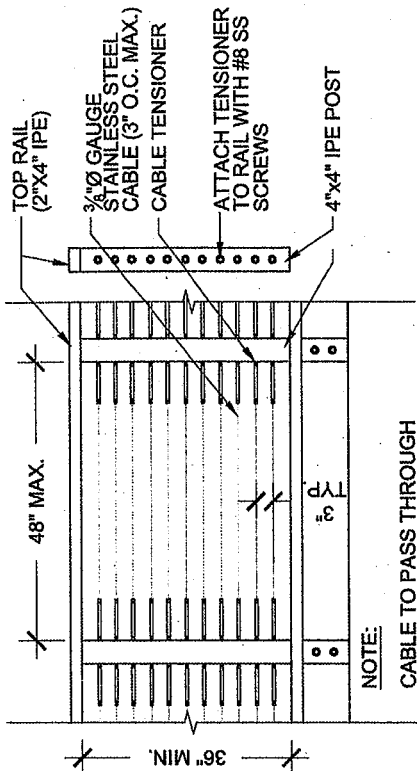
MAY - 7 2019

66 of

BOARDWALK STRUCTURE

SCALE: NTS

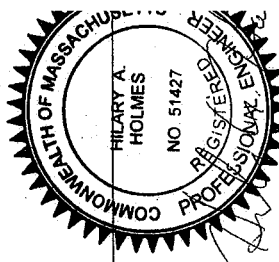
SHEET 14 OF 15



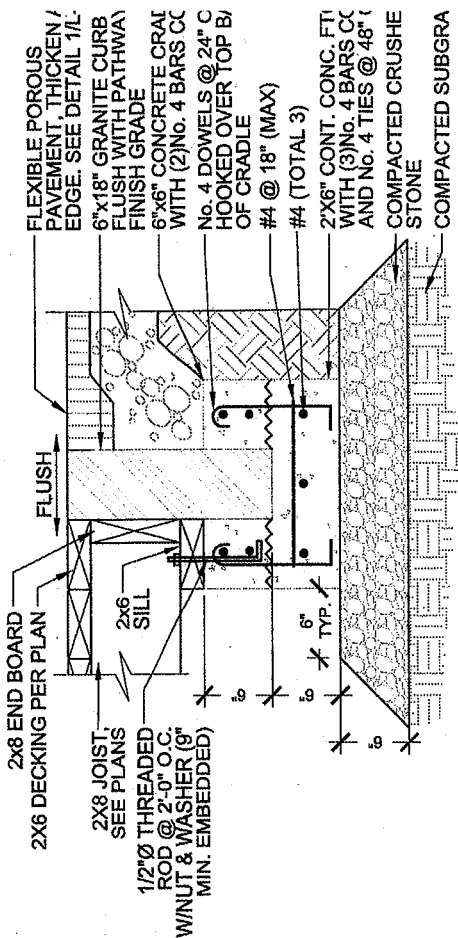
RAILING

OVERLOOK RAILING

SCALE: NTS

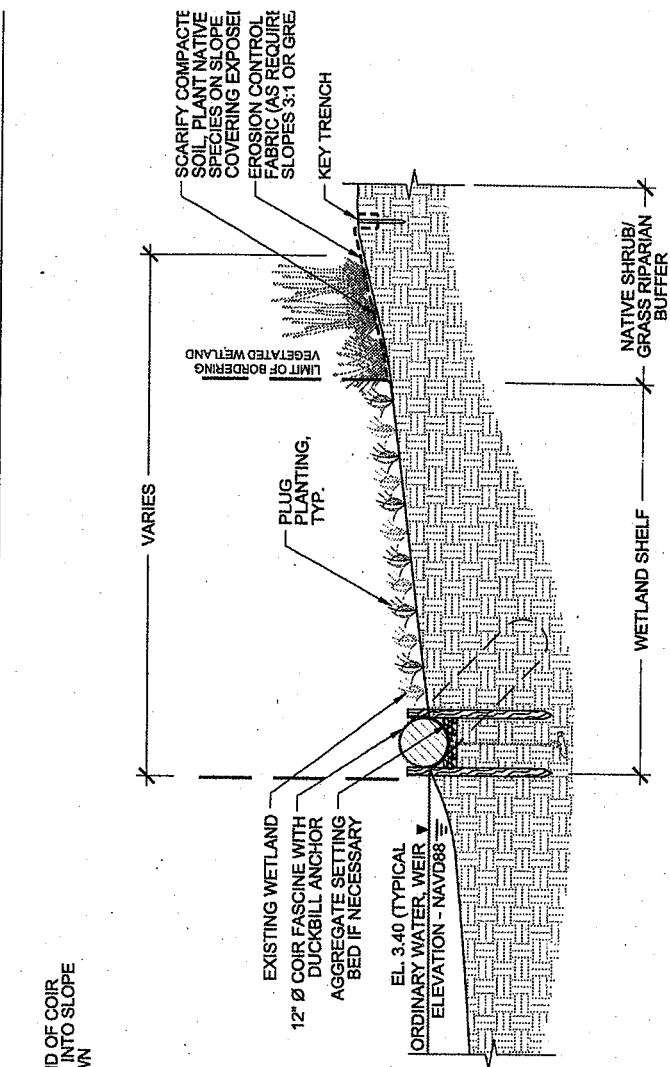


4/4/19

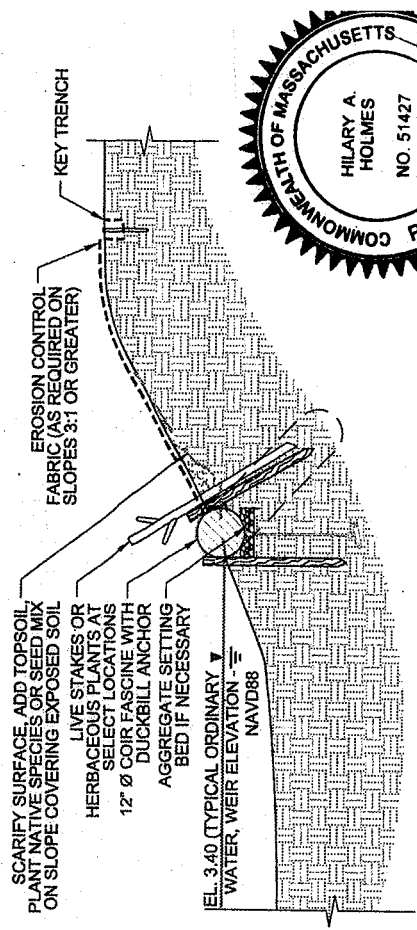


BOARDWALK ABUTMENT

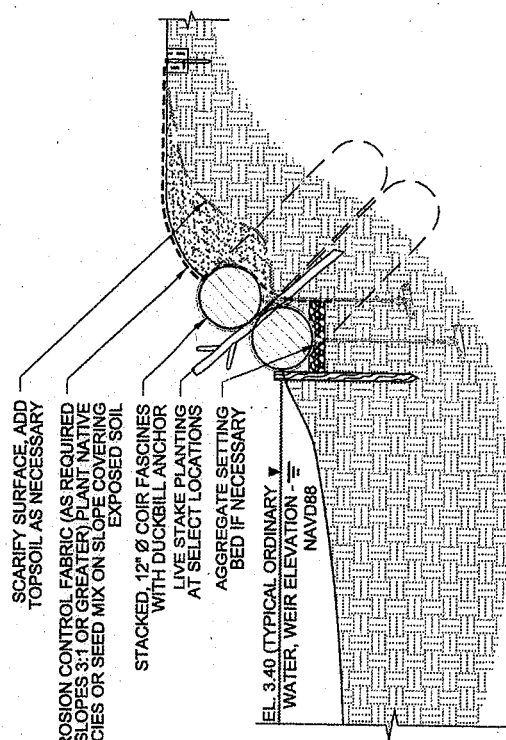
SCALE: NTS



TREATMENT B: SINGLE COIR FASCINE AT WETLAND



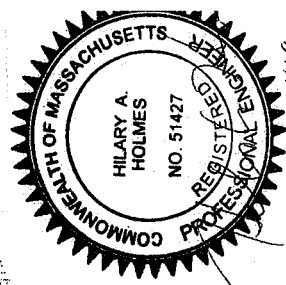
TREATMENT A: SINGLE COIR FASCINE



TREATMENT C: STACKED COIR FASCINE

COIR FASCINE TREATMENTS

SCALE: NTS



The Commonwealth of Massachusetts



No. 14829

Whereas, Town of Arlington Park and Recreation Commission

of -- Arlington -- in the County of -- Middlesex -- and Commonwealth aforesaid, has applied to the Department of Environmental Protection for license to -- install and maintain bank stabilization around portion of Spy Pond and construction and maintain two pile-supported overlook structures, as further described below -----

and has submitted plans of the same; and whereas due notice of said application, and of ~~the time and place fixed for a hearing thereon~~, has been given, as required by law, to the -- Board of Selectman and Town of Administrator--- of the --- Town of Arlington; -----

NOW, said Department, having heard all parties desiring to be heard, and having fully considered said application, hereby, subject to the approval of the Governor, authorizes and licenses the said -----

Town of Arlington Park and Recreation Commission -- subject to the provisions of the ninety first chapter of the General Laws, and of all laws which are or may be in force applicable thereto, to -- stabilize 1,530-linear feet of bank by staking coir fascines and regrading the existing bank to achieve a 3:1 slope, repair and install approximately 200-square feet of rock aprons in three (3) isolated areas for drainage outfall protection, and construct and maintain two (2) timber pile-supported public overlooks with associated deck ramps with a total area of approximately 340-square foot within Chapter 91 jurisdiction -----

in and over waters of the -- Spy Pond -- at 0 Park Lane -- in the -- Town of Arlington-- and in accordance with the locations shown and details indicated on the accompanying License Plan No. 14829, Sheets 1 through 15, prepared by Hatch Associates Consultants, Inc. -----

No specific Legislative Authorizations and/or Licenses have been previously issued for the project site.

The structures authorized hereby shall be limited to the following uses: shoreline stabilization and public access to waterfront open space for passive recreational purposes.

The structures authorized pursuant to this License are valid for an unlimited term pursuant to 310 CMR 9.15(1)(c). The Department may amend the license to authorize a structural alteration upon written request by the licensee accompanied by appropriate plans.

This License is subject to the following Special Conditions and Standard Conditions:

Special Condition 1: The Licensee shall maintain all structures in accordance with the terms and conditions specified herein or this license may expire, pursuant to 310 CMR 9.25(1)(c).

Special Condition 2: Issuance of this authorization does not relieve the Licensee of the obligation to comply with all other applicable state and/or federal statutes or regulations. Any changes made to the project authorized herein will require further notification to and approval by the Department in accordance with the 310 CMR 9.05(1), 9.22(3) or 9.24.

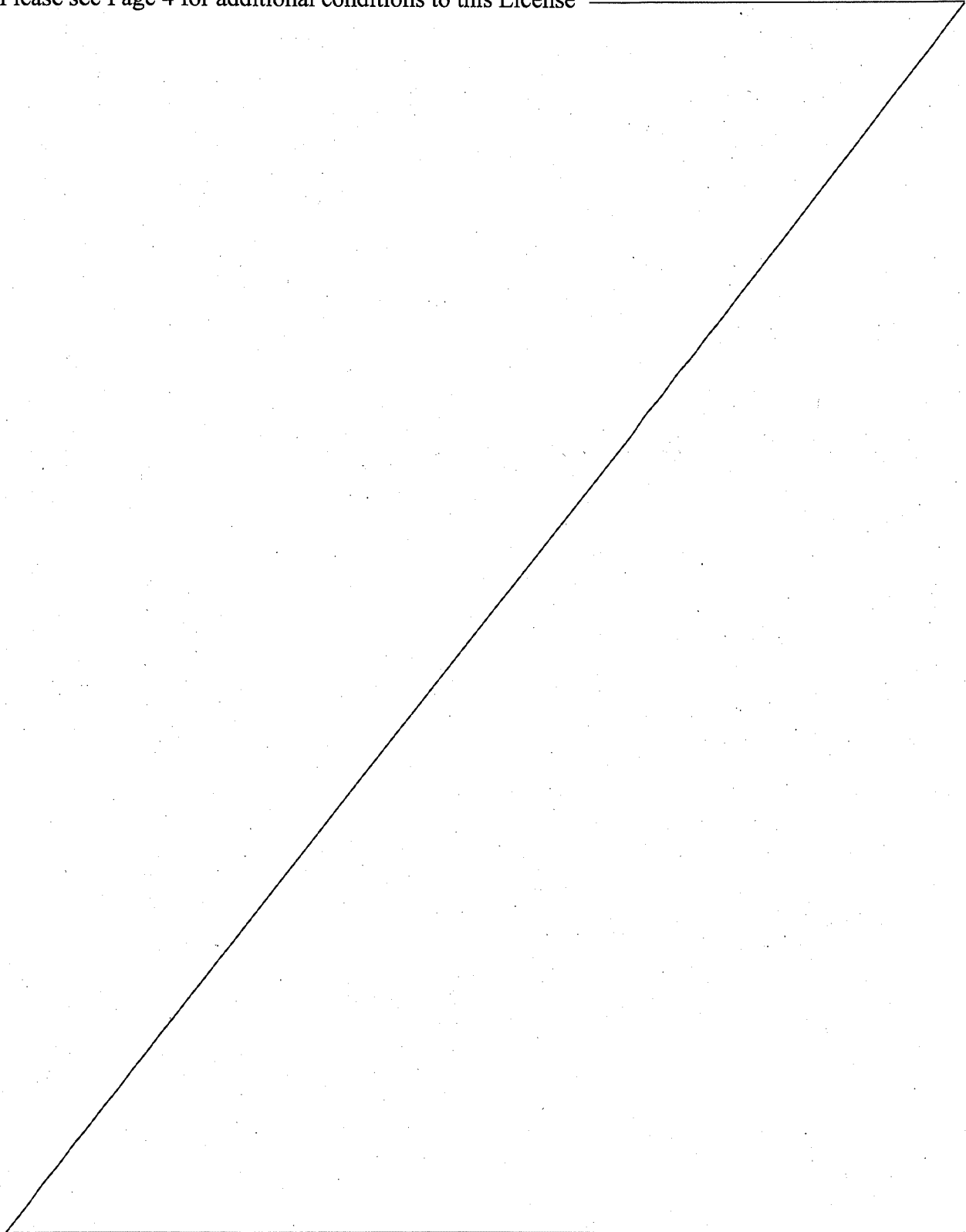
Special Condition 3: All structures authorized under this License shall be constructed to meet the Engineering and Construction Standards pursuant to 310 CMR 9.37.

Special Condition 4: The Licensee shall allow agents of the Department to enter the project site to verify compliance with the conditions of this License.

Special Condition 5: All work authorized herein shall be completed within five (5) years of the date of license issuance. Said construction period may be extended by the Department for one or more one year periods without public notice, provided that the Applicant submits to the Department thirty (30) days prior to the end of the construction period, a written request to extend the period and provides adequate justification for said extension.

Special Condition 6: The Licensee shall request in writing that the Department issue a Certificate of Compliance within sixty (60) days completion of the licensed project, but in no event later than five (5) year from the date of license issuance, or any extension thereof, in accordance with 310 CMR 9.19(1). The request shall be accompanied by a certification by a registered professional engineer licensed to do business in the Commonwealth that the project was completed in accordance with the plans, specifications, and conditions of this License.

Please see Page 4 for additional conditions to this License



Duplicate of said plan, License Number 14829 on file in the office of said Department, and original of said plan accompanies this License, and is to be referred to as a part hereof.

STANDARD WATERWAYS LICENSE CONDITIONS

1. Acceptance of this Waterways License shall constitute an agreement by the Licensee to conform with all terms and conditions stated herein.
2. This License is granted upon the express condition that any and all other applicable authorizations necessitated due to the provisions hereof shall be secured by the Licensee prior to the commencement of any activity or use authorized pursuant to this License.
3. Any change in use or any substantial structural alteration of any structure or fill authorized herein shall require the issuance by the Department of a new License in accordance with the provisions and procedures established in Chapter 91 of the Massachusetts General Laws. Any unauthorized substantial change in use or unauthorized substantial structural alteration of any structure or fill authorized herein shall render this License void.
4. This License shall be revocable by the Department for noncompliance with the terms and conditions set forth herein. This License may be revoked after the Department has given written notice of the alleged noncompliance to the Licensee and those persons who have filed a written request for such notice with the Department and afforded them a reasonable opportunity to correct said noncompliance. Failure to correct said noncompliance after the issuance of a written notice by the Department shall render this License void and the Commonwealth may proceed to remove or cause removal of any structure or fill authorized herein at the expense of the Licensee, its successors and assigns as an unauthorized and unlawful structure and/or fill.
5. The structures and/or fill authorized herein shall be maintained in good repair and in accordance with the terms and conditions stated herein and the details indicated on the accompanying license plans.
6. Nothing in this License shall be construed as authorizing encroachment in, on or over property not owned or controlled by the Licensee, except with the written consent of the owner or owners thereof. The Licensee stated that the Town of Arlington was the property owner at the time the application was submitted.
7. This Waterways License is granted subject to all applicable Federal, State, County, and Municipal laws, ordinances and regulations including but not limited to a valid final Order of Conditions issued pursuant to the Wetlands Protection Act, M.G.L. Chapter 131, §40.
8. This License is granted upon the express condition that the use of the structures and/or fill authorized hereby shall be in strict conformance with all applicable requirements and authorizations of the MassDEP.
9. This License authorizes structure(s) and/or fill on:

_____ Private Tidelands - In accordance with the public easement that exists by law on private tidelands, the Licensee shall allow the public to use and to pass freely upon the area of the subject property lying between the high and low water marks, for the purposes of fishing, fowling, navigation, and the natural derivatives thereof.

_____ Commonwealth Tidelands - The Licensee shall not restrict the public's right to use and to pass freely, for any lawful purpose, upon lands lying seaward of the low water mark. Said lands are held in trust by the Commonwealth for the benefit of the public.

X _____ Great Pond of the Commonwealth - The Licensee shall not restrict the public's right to use and to pass freely upon lands lying seaward of the high water mark for any lawful purpose.

_____ Navigable River or Stream - The Licensee shall not restrict the public's right to use and to pass freely, for any lawful purpose, in the waterway.

No restriction on the exercise of these public rights shall be imposed unless otherwise expressly provided in this License.

10. Unless otherwise expressly provided by this License, the Licensee shall not limit the hours of availability of any areas of the subject property designated for public passage, nor place any gates, fences, or other structures on such areas in a manner that would impede or discourage the free flow of pedestrian movement thereon.

Spy Pond Bank Stabilization, Spy Pond, Arlington, Middlesex County

~~The amount of tidewater displaced by the work hereby authorized has been ascertained by said Department, and compensation thereof has been made by the said -- Town of Arlington Park and Recreation Commission -- by paying into the treasury of the Commonwealth -- (N/A) -- for each cubic yard so displaced, being the amount hereby assessed by said Department (N/A).~~

Nothing in this License shall be so construed as to impair the legal rights of any person.

This License shall be void unless the same and the accompanying plan are recorded within 60-days from the date hereof, in the Registry of Deeds for the South District -- of the County of -- Middlesex --

IN WITNESS WHEREAS, said Department of Environmental Protection have hereunto set their hands this 7th day of May in the year two thousand nineteen.

Commissioner



Section Chief



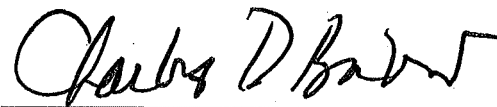
Department of
Environmental Protection

THE COMMONWEALTH OF MASSACHUSETTS

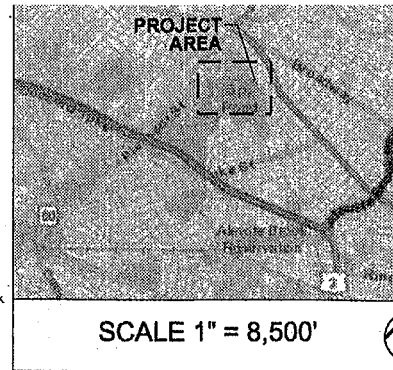
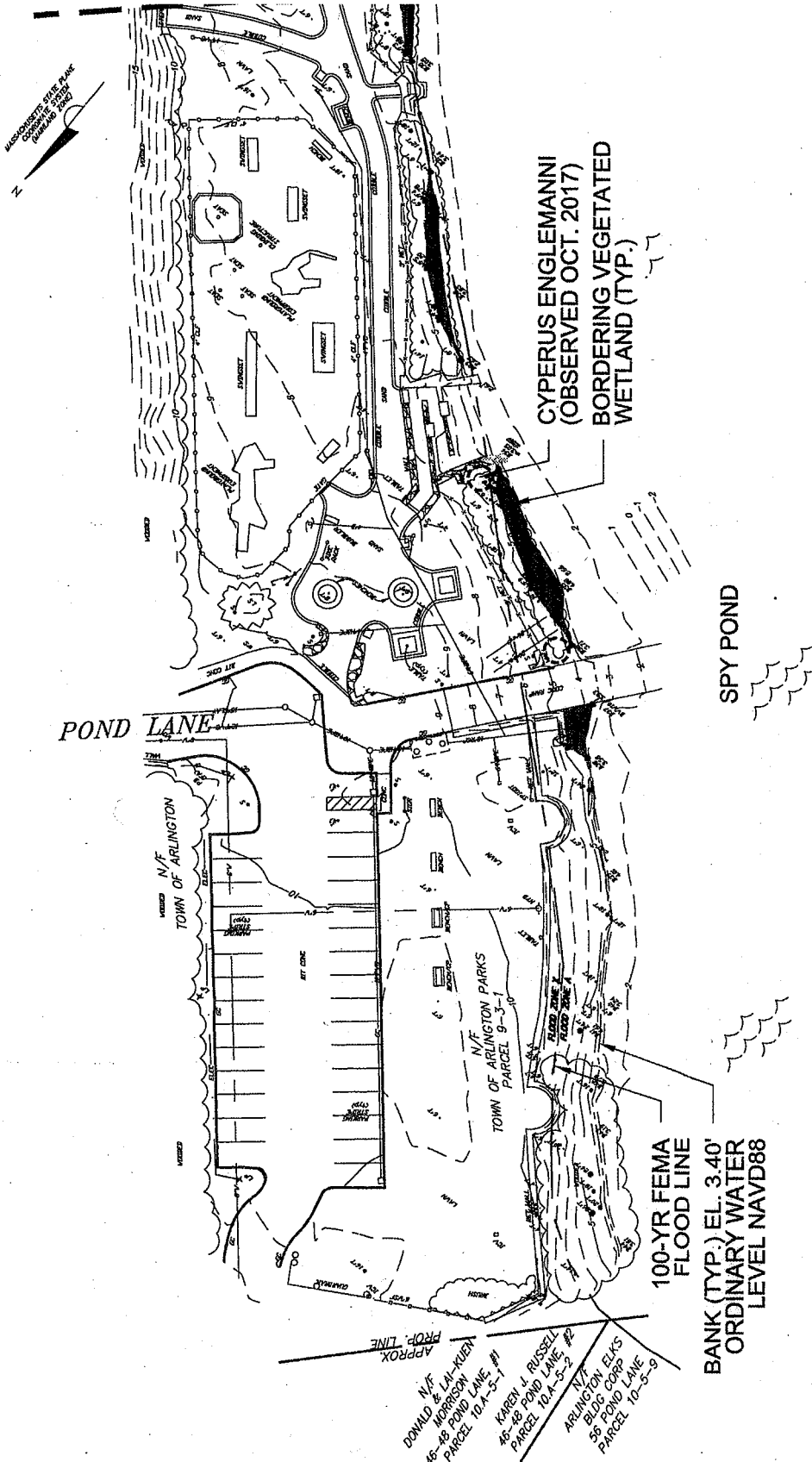
This License is approved in consideration of the payment into the treasury of the Commonwealth by the said -- Town of Arlington Park and Recreation Commission -- the further sum of -- (*exempt pursuant to 310 CMR 9.16(4)(a)*) -- the amount determined by the Governor as a just and equitable charge for rights and privileges hereby granted in the land of the Commonwealth.

BOSTON,

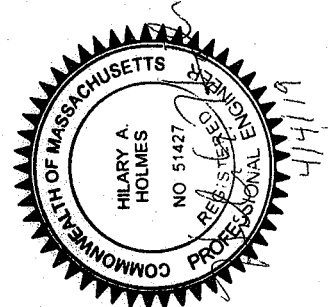
Approved by the Governor.



Governor

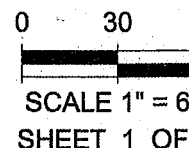


LOCUS PLAN



NOTES:

1. NO BASE FLOOD ELEVATION IS GIVEN ON FEMA MAP 25017C0417E.
2. TYPICAL ORDINARY WATER LEVEL IS ELEVATION 3.4' NAVD88 CORRESPONDING WITH THE OUTLET STRUCTURE WEIR ELEVATION.



PLANS ACCOMPANYING PETITION OF ARLINGTON PARKS AND RECREATION COMMISSION TO RESTORE EXISTING BANK AND INSTALL TWO NEW TIMBER OVERLOOKS AT SPY POND, IN ARLINGTON, MA

PREPARED BY
HATCH ASSOCIATES CONSULTANTS, INC.
SALEM, MA

LICENSE PLAN NO.

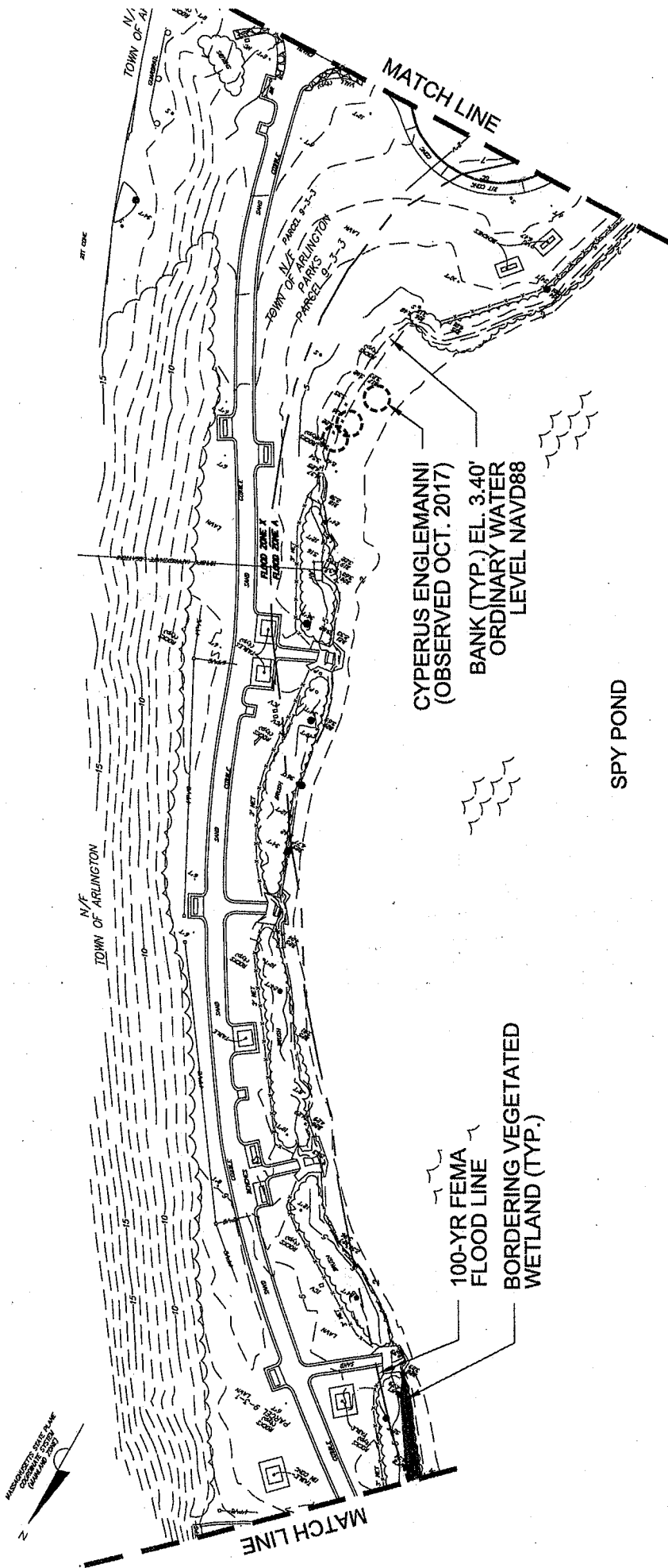
148299

Approved by Department of Environmental Protection
of Massachusetts

MAY - 7 2019

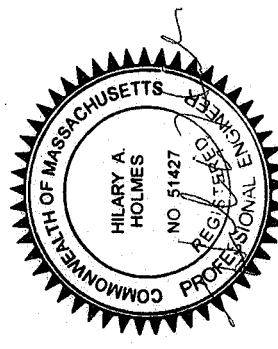
[Signature]
83 of 87

EXISTING CONDITIONS PLAN - AREA 1: SPY POND PARK (NORTH)
SCALE 1" = 60'

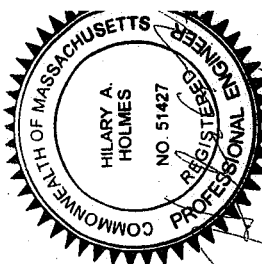
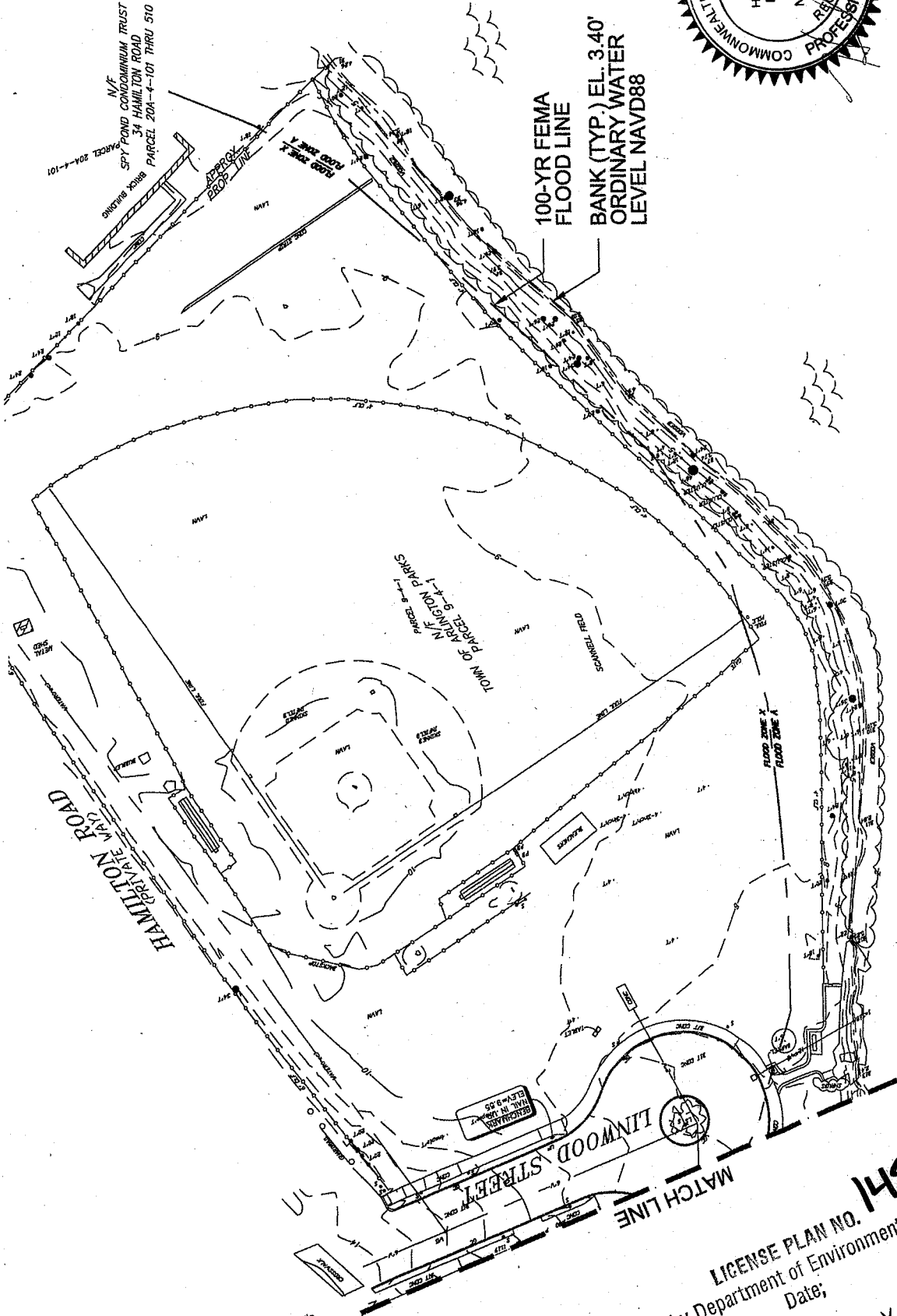


NOTE:
1. SEE SHEET 1 FOR GENERAL NOTES.

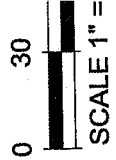
14829
 LICENSE PLAN NO.
 Approved by Department of Environmental Protection
 Date, MAY - 7 2019



EXISTING CONDITIONS PLAN - AREA 2: SPY POND PARK (SOUTH)
 SCALE: 1" = 60'-0"



NOTE:
1. SEE SHEET 1 FOR GENERAL NO.



SPY POND

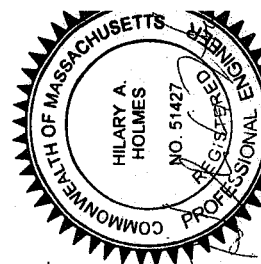
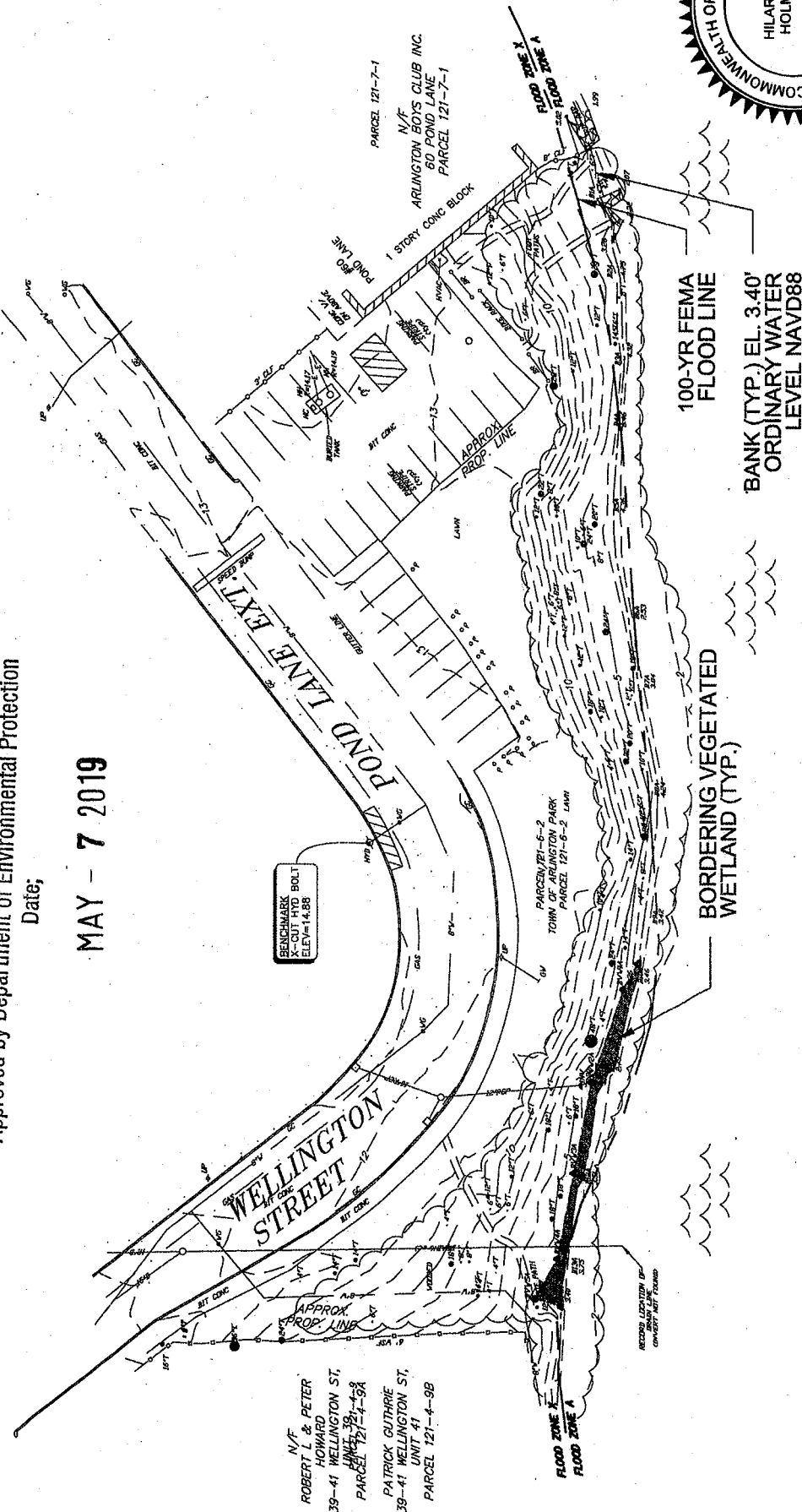
EXISTING CONDITIONS PLAN - AREA 3: SCANNELL FIELD
SCALE: 1" = 60'-0"

LICENSE PLAN NO. 14829
Approved by Department of Environmental Protection
Date: MAY 7 2019

LICENSE PLAN NO. 14829

Approved by Department of Environmental Protection
Date;

MAY - 7 2019



4/4/19
0 25
SCALE 1" = 50'

NOTE:
1. SEE SHEET 1 FOR GENERAL NOTES.

SPY POND

EXISTING CONDITIONS PLAN - AREA 4: BOYS AND GIRLS CLUB
SCALE: 1" = 50'-0"



LICENSE PLAN NO. 14829

Approved by Department of Environmental Protection
Date;

MAY - 7 2019

SPY POND

100-YR FEMA
FLOOD LINE

BANK (TYP.) EL. 3.40'
ORDINARY WATER
LEVEL NAVD88

0 30

SCALE 1" = 40'

PARCEL 122-5-168

N/F
MARIANNE C.D. BARBERA
25487/1
#19 LAKE VIEW

PROP. LINE

BENCHMARK
NAIL IN UP
ELEV=18.93

N/F
MARK E. BOUDREAU &
KATHRYN M. ZEILER
66477/63
#17 LAKE VIEW
PARCEL 122-5-17

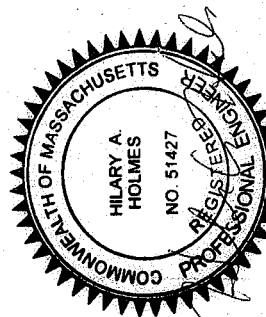
N/F
MATTHEW S. &
KATHRYN M. JENNINGS
66046/408
#17 LAKE VIEW
PARCEL 122-5-15

SPRING VALLEY

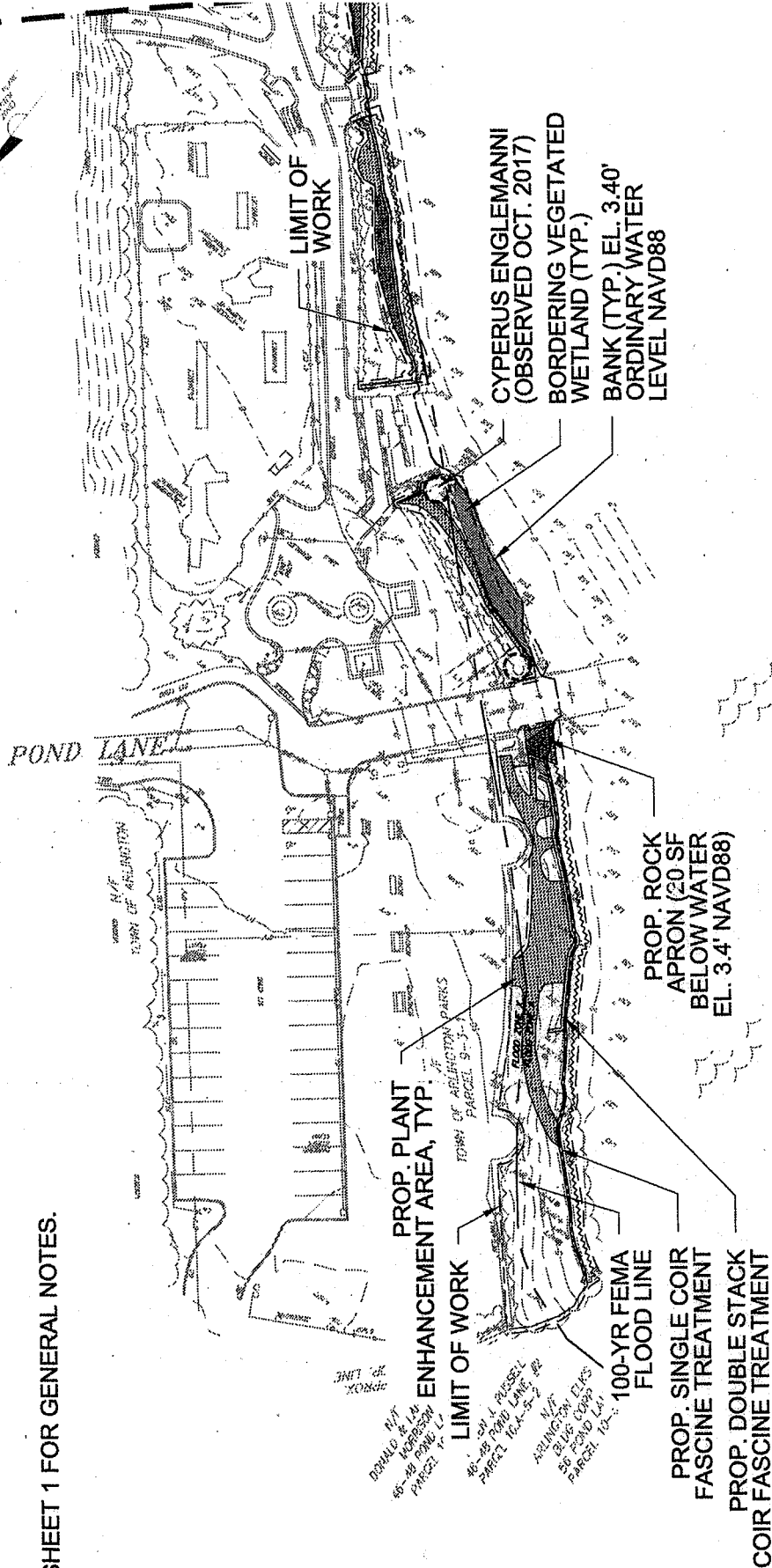
NOTE:
1. SEE SHEET 1 FOR GENERAL NOTES.

EXISTING CONDITIONS PLAN AREA 5: SPRING VALLEY

SCALE: 1" = 40'-0"



NOTE:
1. SEE SHEET 1 FOR GENERAL NOTES.



SPY POND

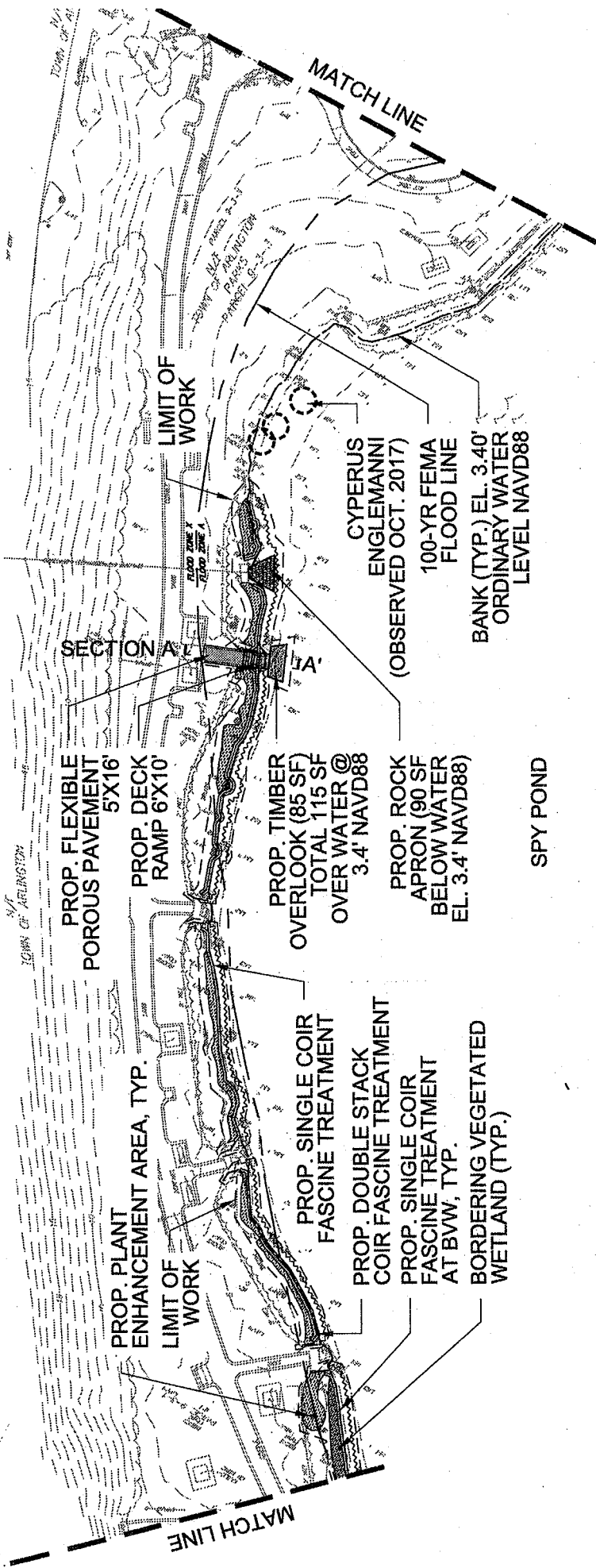


14829

LICENSE PLAN NO.
Approved by Department of Environmental Protection
Date;

MAY 7 2019

PROPOSED CONDITIONS PLAN - AREA 1: SPY POND PARK (NORTH)
SCALE: 1" = 60'-0"



0 30
SCALE 1" = 30'

14829

LICENSE PLAN NO.

Approved by Department of Environmental Protection

Date;

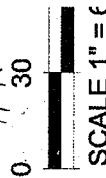
MAY - 7 2019

- NOTE:**
1. SEE SHEET 1 FOR GENERAL NOTES.
 2. HELICAL PILING FOR TIMBER OVERLOOKS (2) ARE PROPOSED AND SHOWN IN DETAIL ON SHEET 13 AND 14. NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE REVIEW AND WRITTEN AUTHORIZATION GRANTED BY THE NATURAL HERITAGE ENDANGERED SPECIES PROGRAM (NHESP) REPRESENTATIVES, MASSACHUSETTS DIVISION OF FISHERIES AND WILDLIFE (508.389.6360).

PROPOSED CONDITIONS PLAN - AREA 2: SPY POND PARK (SOUTH)

SCALE: 1" = 60'-0"

1. SEE SHEET 1 FOR GENERAL NOTES.
2. SEE SHEET 7, NOTE 2.

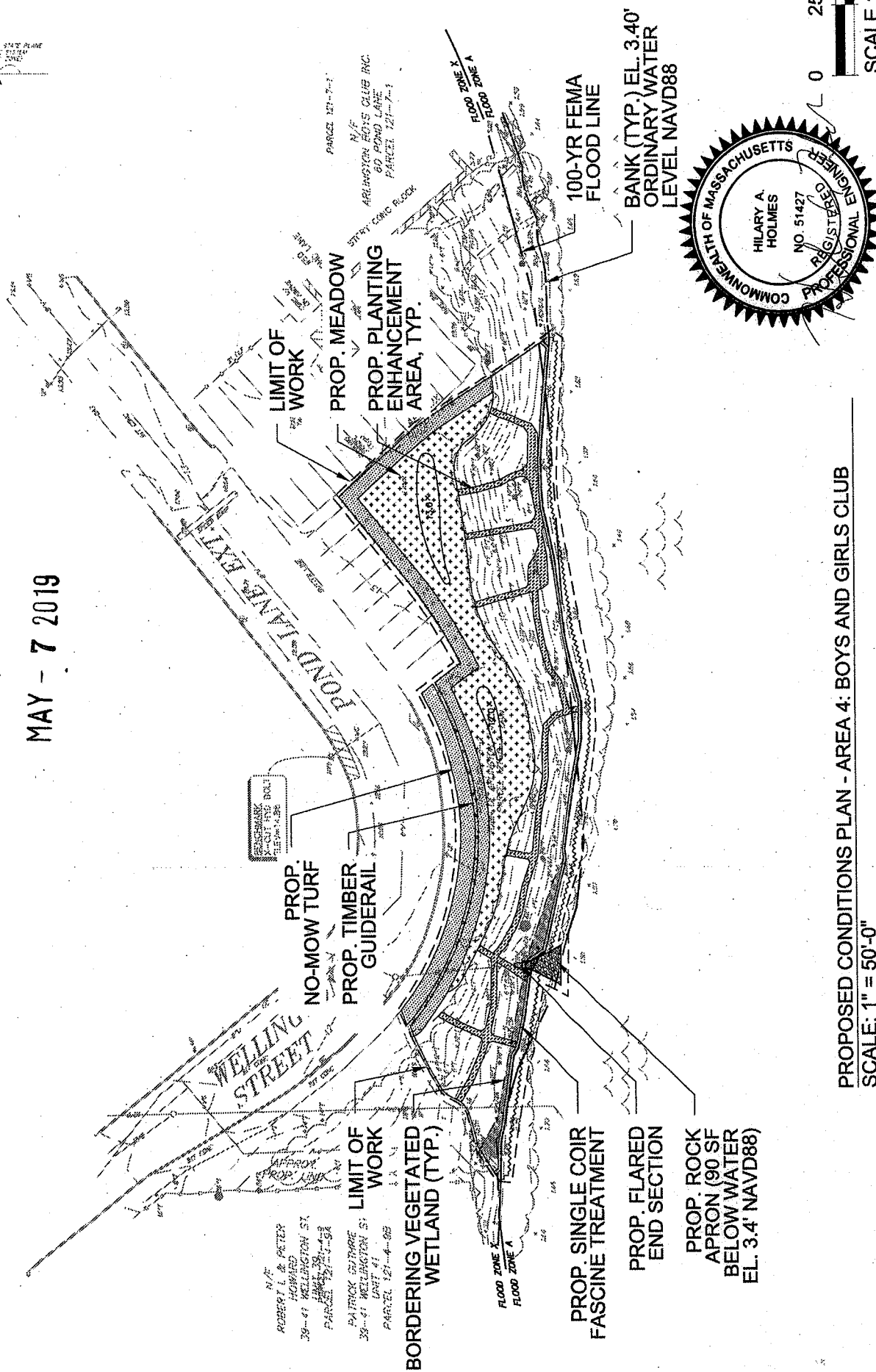


14829
Environmental Protection
MAY - 7 2019

NOTE:
1. SEE SHEET 1 FOR GENERAL NOTES.

LICENSE PLAN NO. 14829
Approved by Department of Environmental Protection
Date;

MAY - 7 2019

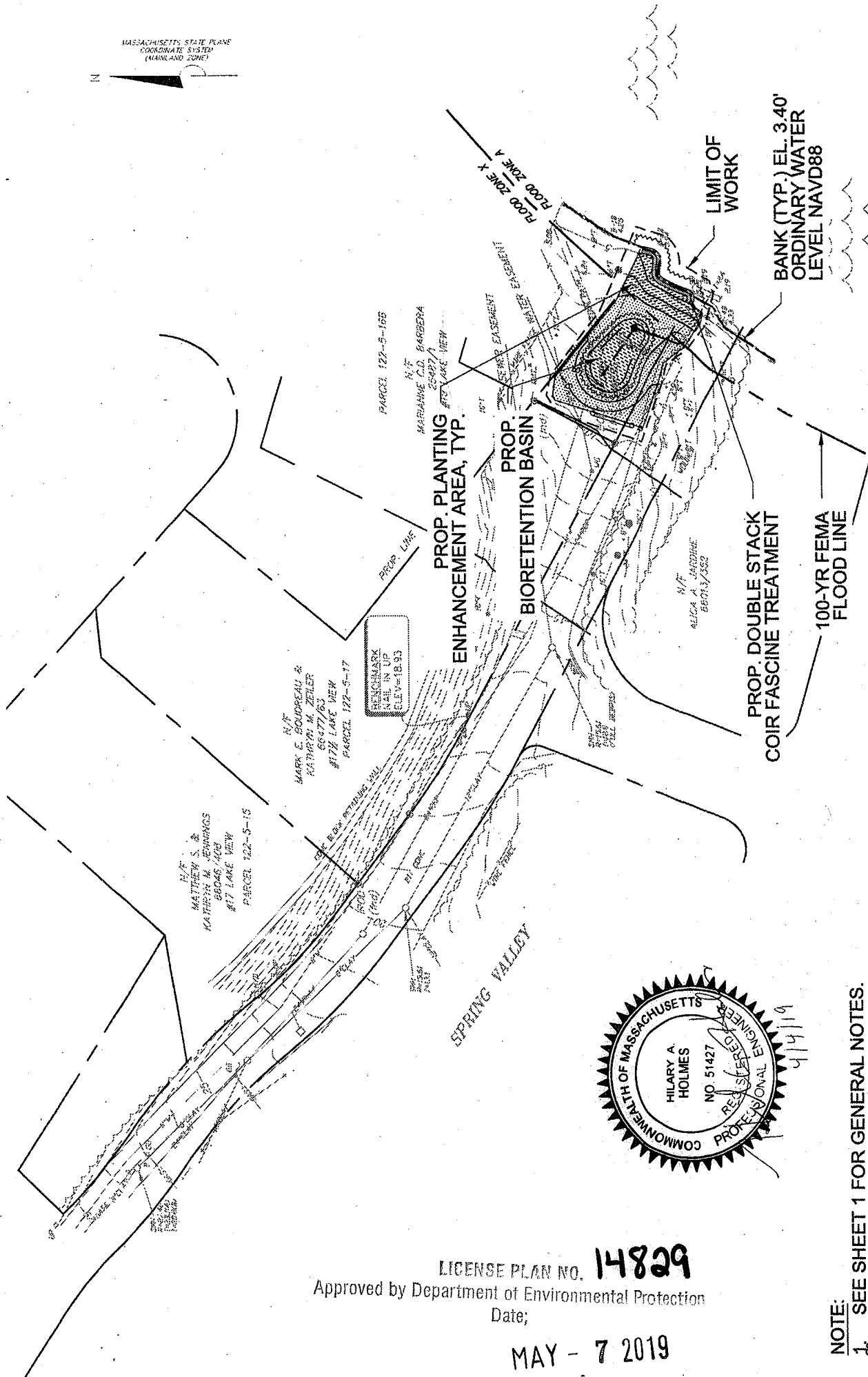


PROPOSED CONDITIONS PLAN - AREA 4: BOYS AND GIRLS CLUB

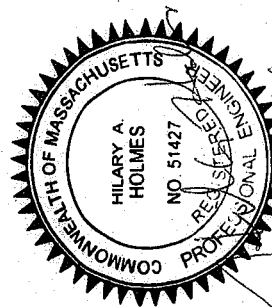


0 20

SCALE 1" = 40'-0"



PROPOSED CONDITIONS PLAN - AREA 5: SPRING VALLEY
SCALE: 1" = 40'-0"

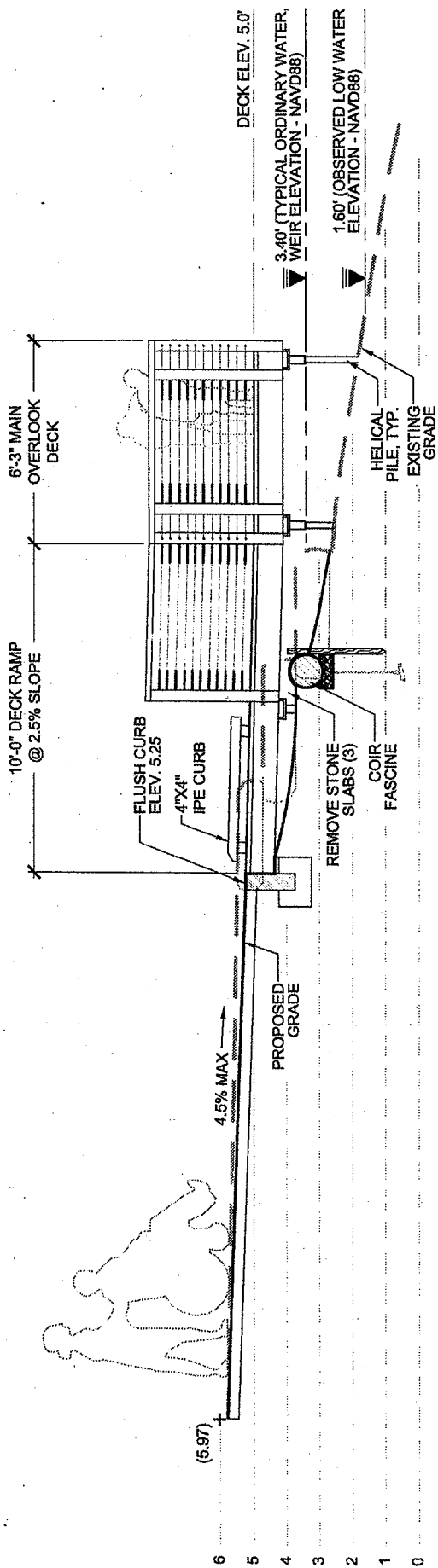


LICENSE PLAN NO. **14829**
Approved by Department of Environmental Protection
Date;

MAY - 7 2019

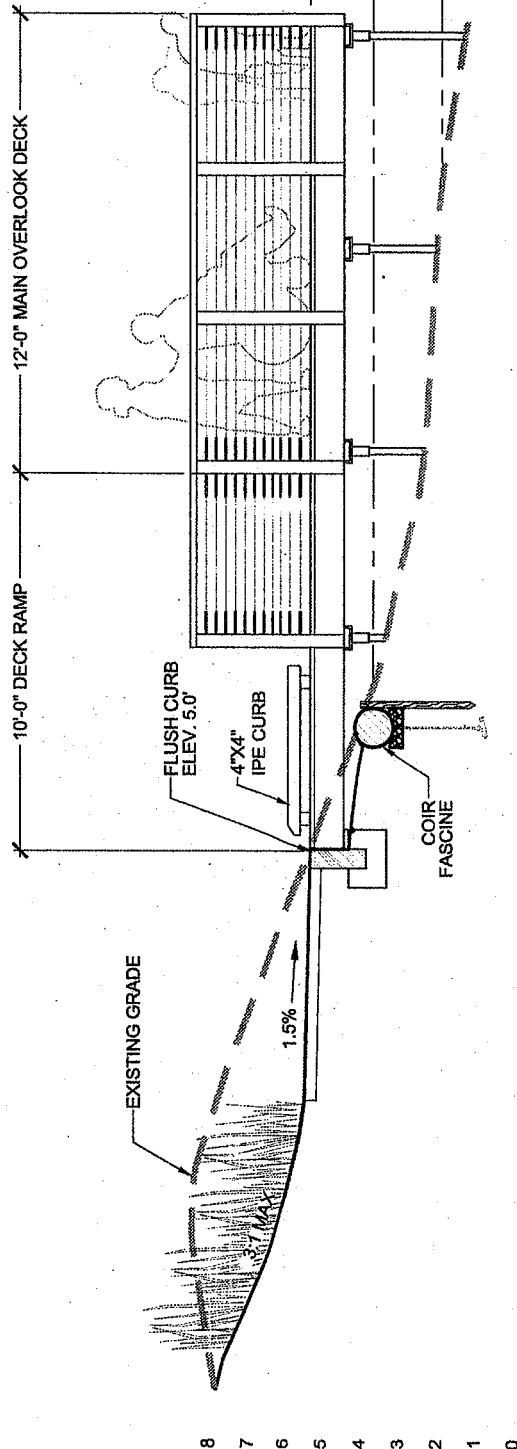
NOTE: SEE SHEET 1 FOR GENERAL NOTES.

182 of 87



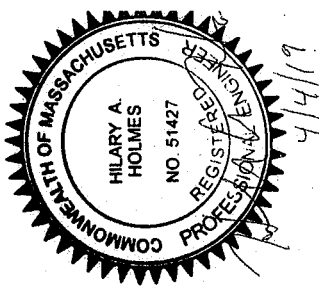
SECTION A-A: TIMBER OVERLOOK (NORTH)

SCALE: 1"=5'-0"



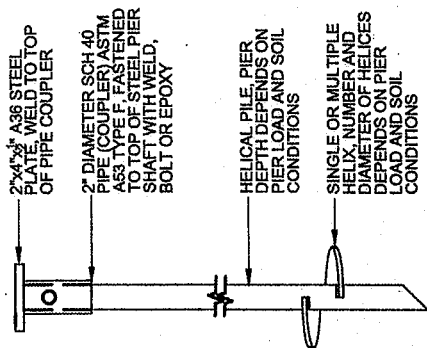
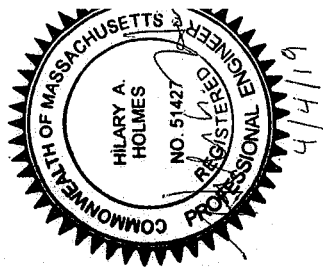
SECTION B-B: TIMBER OVERLOOK (SOUTH)

SCALE: 1"=5'-0"



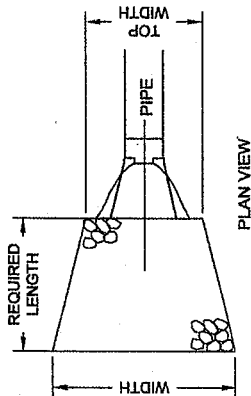
LICENSE PLAN NO. 14829
 Approved by Department of Environmental Protection
 Date;

MAY - 7 2019

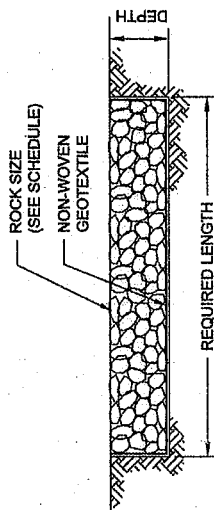


HELICAL PILE

HELICAL PILE
SCALE: NTS



PLAN VIEW



SECTION

ROCK APRON DESIGN SCHEDULE

DISCHARGE PIPE LOCATION	APRON TYPE	PIPE DIA. (IN)	TOP WIDTH (FT)	LENGTH (FT)	WIDTH (FT)	ROCK SIZE	REQUIRED DEPTH (FT)
SPY POND PARK (NORTH)	RIPRAP	18	4.5	10	14.5	D50=6"	1.5
SPY POND PARK (SOUTH)	RIPRAP	18	4.5	10	14.5	D50=6"	1.5
NEAR BOYS & GIRLS CLUB	RIPRAP	12	3	11	14	D50=6"	1.5

ROCK APRON
SCALE: NTS

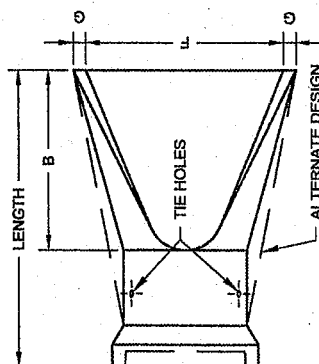
LICENSE PLAN NO. 14829
Approved by Department of Environmental Protection

Date;

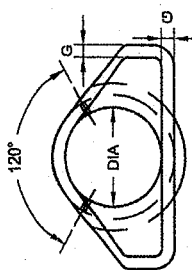
MAY 7 2019

PIPE DIA	LENGTH	SLOPE	T	A	B	F	G	WEIGHT/SECTION (LBS)
12"	6'-0"	1V:3H	2'	4'	24'	24'	2'	530

TIE BOLT HOLES ARE PROVIDED FOR THE INSTALLATION OF TIE BOLTS BETWEEN THE FLARED END SECTION AND THE ADJACENT PIPE.



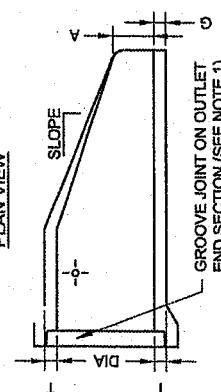
PLAN VIEW



END VIEW

NOTE:

THE JOINTS ARE TO BE COMPATIBLE WITH THE MAIN RUN OF PIPE. CONTRACTOR TO FIELD VERIFY PRIOR TO ORDERING FLARED END.



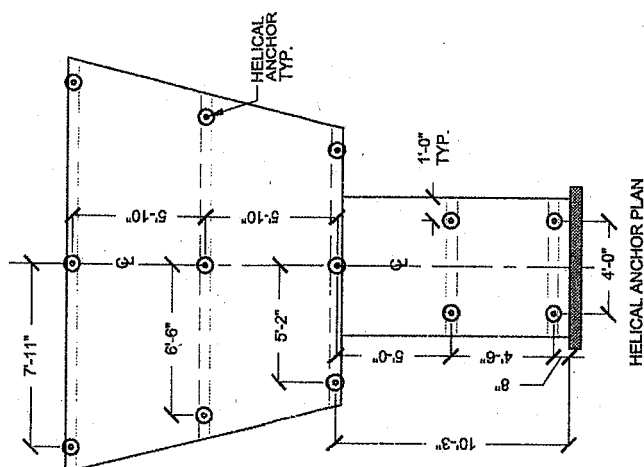
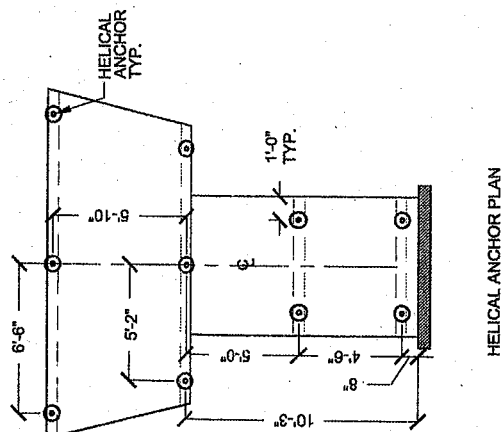
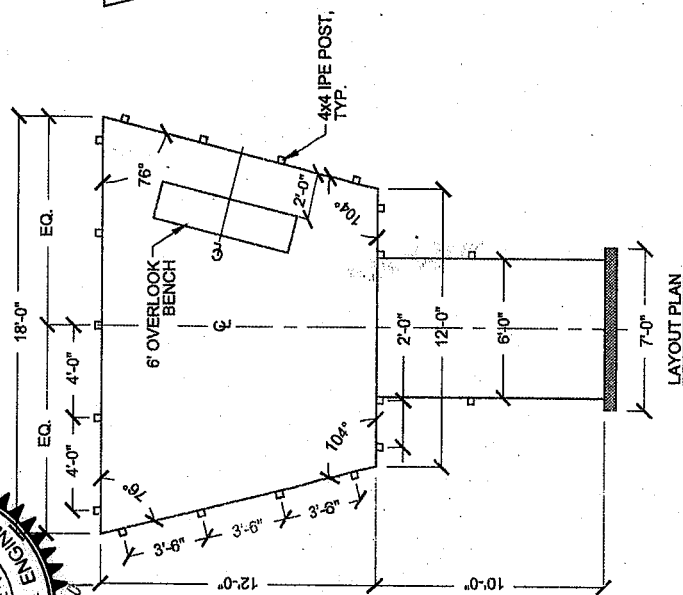
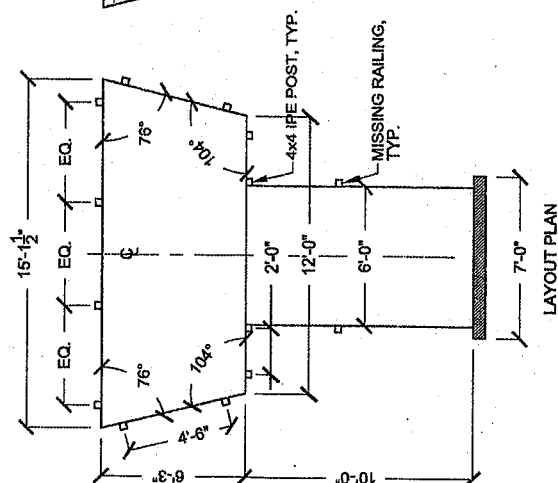
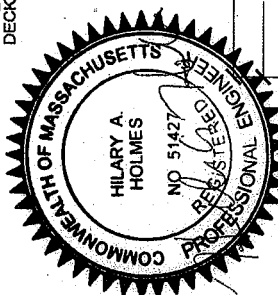
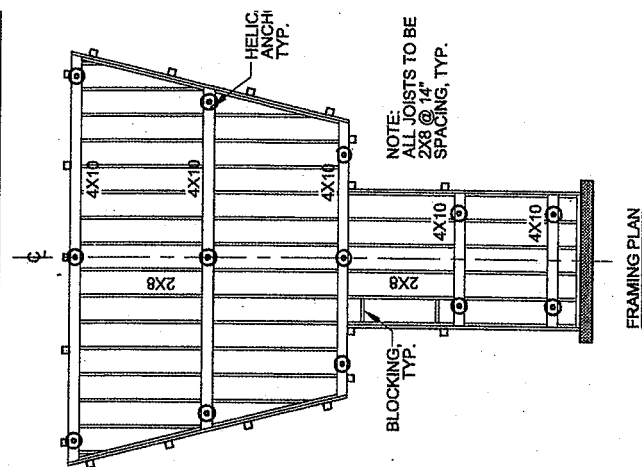
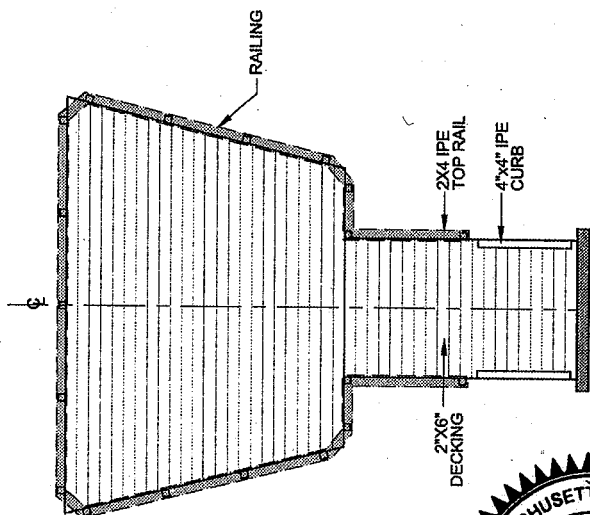
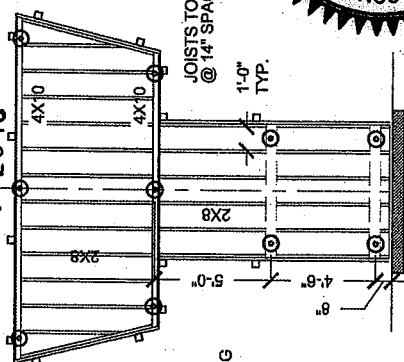
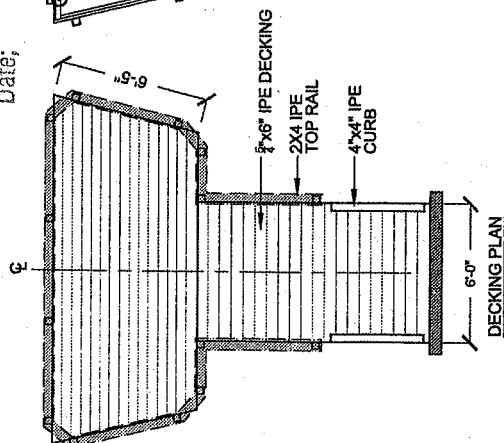
LONGITUDINAL SECTION

FLARED END OUTLET
SCALE: NTS

14829

Approved by Department of Environmental Protection

Date: MAY - 7th 2019



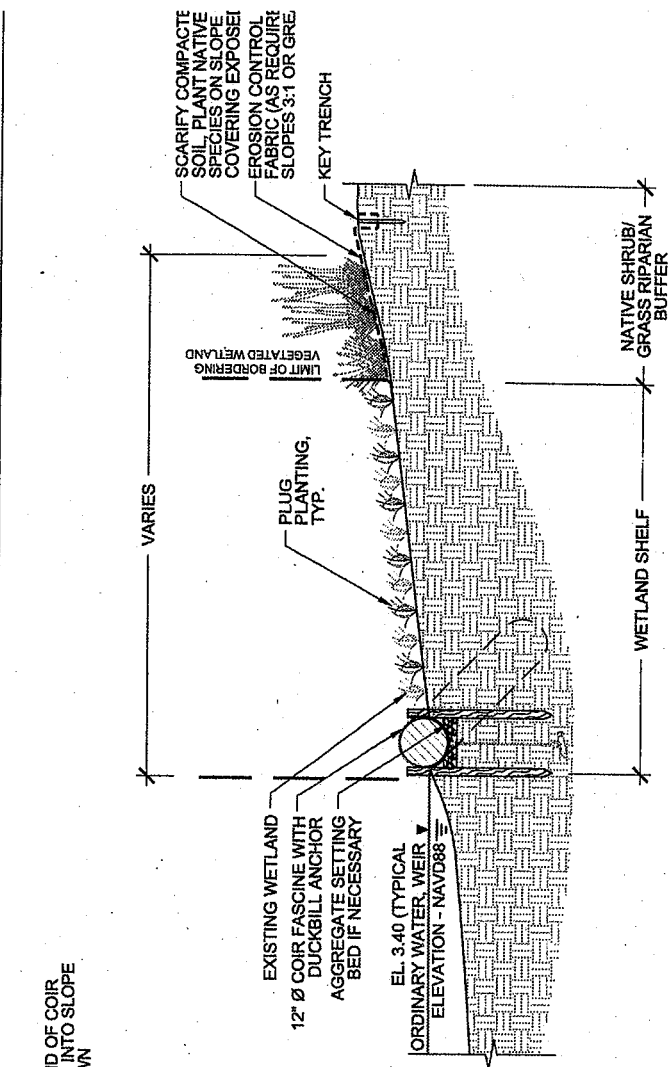
85 of

OVERLOOK STRUCTURE (NORTH)
SCALE: NTS

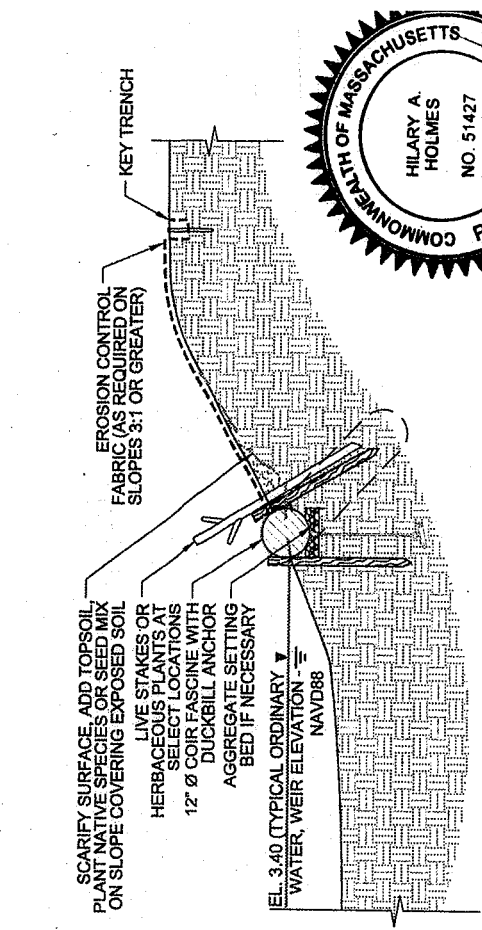
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TIMBER OVERLOOK (SOUTH)
SCALE: NTS

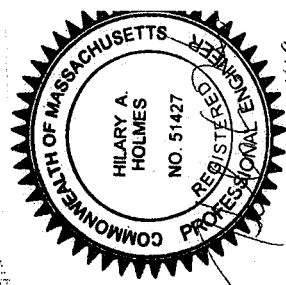
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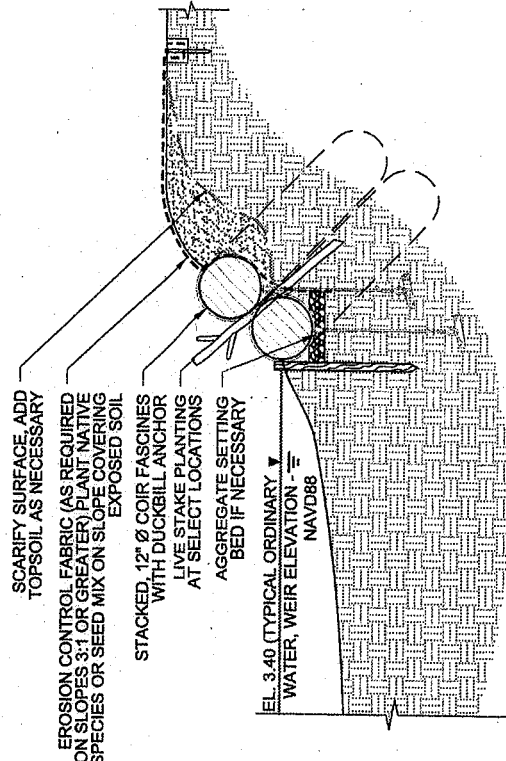
TREATMENT B: SINGLE COIR FASCINE AT WETLAND



TREATMENT A: SINGLE COIR FASCINE



COIR FASCINE END TREATMENT



TREATMENT C: STACKED COIR FASCINE

COIR FASCINE TREATMENTS
SCALE: NTS