

**TOWN OF BOXFORD
ZONING BOARD OF APPEALS**

RECEIVED
Time Stamp by Town
Clerk's Office
2022 OCT 25 PM 3:52
ROBIN PHELAN
BOXFORD TOWN CLERK
NOTE TO CLERK:
DO NOT STAMP
WITHOUT INSPECTOR
OF BUILDINGS
APPROVAL

APPLICATION FOR:

- SPECIAL PERMIT/APPEAL OF INSPECTOR OF BUILDINGS (\$500.00)
- VARIANCE (\$550.00)
- 40B COMPREHENSIVE PERMIT \$500.00 plus \$50.00 per individual unit
- 40B COMPRESHENIVE PERMIT \$250.00 plus \$25.00 per individual unit for Local Initiative Program

NO APPLICATION (EXCEPT FOR AN APPEAL OF THE INSPECTOR OF BUILDINGS) WILL BE ACCEPTED UNLESS EACH AND EVERY ITEM LISTED ON THE LAST PAGE OF THIS APPLICATION IS INCLUDED IN THE SUBMISSION. IF EACH AND EVERY ITEM IS NOT PROVIDED, YOUR APPLICATION MAY EITHER BE RETURNED TO YOU OR DENIED AT THE TIME OF THE HEARING FOR INCOMPLETNESS AND YOUR PROJECT WILL BE DELAYED.

Cases will be scheduled for a ZBA hearing only if your application has been (1) reviewed by the Inspector of Buildings, (2) time-stamped by the Town Clerk's Office, and (3) returned to the Building Department. **The Town Clerk office will not time-stamp your application without Certification by the Inspector of Buildings**

For Office Use Only
CERTIFICATE OF COMPLETENESS
Must be signed by the Inspector of Buildings prior to
Town Stamp

Peter J. Delaney 10-25-2022
Inspector of Buildings Signature Date

For Office Use Only

Building Permit Denied _____
Reason Denied _____
Date Initial ZBA Application Received _____
Date of Inspector's Review _____
Date Returned to Applicant _____
Reason for return _____

PROPERTY OWNER INFORMATION

PROPERTY OWNER'S NAME STEPHEN CLIFFORD

PROPERTY ADDRESS 28 MIDDLETON RD MAP/BLOCK/LOT 32/01/2/ and 22

PROPERTY OWNER'S MAILING ADDRESS 28 MIDDLETON RD, BOXFORD MA, 01921

PROPERTY OWNER'S PHONE NUMBER: 978-887-0771 PROPERTY OWNER'S E-MAIL MCoogan@boxfordma.gov
SCLIFFORD@TOWN.SCHOOL.UNION.COM

NO APPLICATION (EXCEPT FOR AN APPEAL OF THE INSPECTOR OF BUILDINGS) WILL BE ACCEPTED UNLESS EACH AND EVERY ITEM LISTED ON THIS PAGE IS INCLUDED IN THE SUBMISSION. IF EACH AND EVERY ITEM IS NOT PROVIDED, YOUR APPLICATION MAY EITHER BE RETURNED TO YOU OR DENIED AT THE TIME OF THE HEARING FOR INCOMPLETENESS AND YOUR PROJECT WILL BE DELAYED.

PROJECT PLANS REQUIRED FOR ALL APPLICATIONS

SITE PLAN--One (1) full size sets and four (4) copies (no larger than 11"x 17") drawn to not less than 1" = 20' scale and showing:

- a north arrow
- the name of the owner(s) and the street address of the property
- the name and address of person preparing the plan and the date of the plan
- Licensed surveyor/engineer's stamp
- all bordering street names
- the dimensions of the property lines and lot area (in square feet) of the lot to be built upon
- the locations and dimensions (including the square footage) of all existing and proposed buildings and other structures on the lot
- the distance to the property line(s) from all buildings and other structures on the lot
- the distance between all buildings and other structures on the lot
- all required setback distances
- all existing and proposed entrances and exits to both the lot and the buildings on the lot
- ALL OF THE PROPOSED WORK MUST BE HIGHLIGHTED IN RED**

BUILDING PLANS and ELEVATIONS

One (1) full size set and four (4) copies (no larger than 11"x 17") drawn to not less than a ¼" = 1' scale and showing:

- a north arrow
- the name of the owner(s) and the street address of the property
- the name and address of person preparing the plan, and the date of the plan
- the exterior elevations (including windows, doors, porches, steps and other architectural features)
- the interior floor plans including all dimensions
- for accessory apartments include floor area measurements/calculation as per ZBL 196-13.C(3)
Subsequent plan revisions shall be so noted
- ALL PROPOSED WORK MUST BE HIGHLIGHTED IN RED**

APPLICATION PACKET SHALL INCLUDE

One (1) full size set and four (4) copies of the following (collated into applications)

1. Application time-stamped by the Town Clerk;
2. Certified Abutter's List
3. Postage Fee Form
4. Authorization for Publication Form
5. Deed
6. Plot Plan
7. Architectural Plans
8. Photographs of the Property
9. Application fee (in the original application only, do not copy)

Electronic version of the complete application, including plans in PDF Format on flash drive if the information cannot be emailed as a single document to the ZBA Secretary.

APPLICANT INFORMATION (IF DIFFERENT FROM OWNER)

NAME Stephen Clifford

RELATIONSHIP TO PROPERTY OWNER (for example, spouse, attorney, architect, etc.) Facilities Director
Boxford Public Schools

APPLICANTS MAILING ADDRESS 28 Middleton Road, Boxford MA 01921

APPLICANT'S PHONE NUMBER: 978-887-0771 APPLICANT'S E-MAIL sclifford@tritownschoolunion.com

OWNER AUTHORIZATION	
I, <u>Barbara Jessel</u> , as Owner of the subject property hereby authorize <u>MATTHEW COOPER, TOWN ADMINISTRATOR</u> to act on my behalf in all matters relative to this application.	
<u>[Signature]</u> Signature of Owner	<u>10/24/22</u> Date
OWNER OR AUTHORIZED AGENT DECLARATION	
I, <u>Steve Clifford</u> , as Owner of the subject property hereby authorize _____ to act on my behalf in all matters relative to this application	
<u>[Signature]</u> Signature of Owner or Authorized Agent	_____ Date

PURPOSE OF APPLICATION AND DESCRIPTION OF PROJECT

Purpose of Application: Special Permit Variance Appeal of Inspector of Buildings Comprehensive Permit

Description of Project:

This application seeks to amend the Special Permit issued for the proposed site improvements to the Harry Lee Cole School. The Town of Boxford recently purchased a parcel abutting the school (27 Main Street Parcel) and the applicant seeks to expand the existing paved schoolyard area into that parcel. Additionally, the applicant plans to use the 27 Main Street parcel for temporary staging and parking areas during construction, under review by the Conservation Commission.

Applicable Section(s) of Zoning Bylaw for which relief is sought:

N/A

32-01-22 AND 32-01-21 - 27 MAIN ST AND 28 MIDDLETON RD, BOXFORD ABUTTERS LIST
 ZONING BOARD OF APPEALS 300'

Parcel ID	Location	Owner	Owner 2	Owner Address	Owner City/Town	Owner State	Zip Code
28-02-17-1	MIDDLETON RD	TOWN OF BOXFORD		7A SPOFFORD RD	BOXFORD	MA	01921
32-01-11	21 ELM ST	COLBERT KEVIN M TR	COLBERT LISA H TR	21 ELM ST	BOXFORD	MA	01921
32-01-13	15 ELM ST	DILISIO ANTHONY	HOVERSON ERIN	15 ELM ST	BOXFORD	MA	01921
32-01-15	18 MIDDLETON RD	SMART THOMAS M	SMART PATRICA E	18 MIDDLETON RD	BOXFORD	MA	01921
32-01-16	24 MIDDLETON RD	BENSON DAVID F	BENSON PATRICIA N	24 MIDDLETON RD	BOXFORD	MA	01921
32-01-17	CARR WAY	TOWN OF BOXFORD		7A SPOFFORD RD	BOXFORD	MA	01921
32-01-20	29 MIDDLETON RD	LAROCHE MARK	MCGOVERN MARGARET	29 MIDDLETON RD	BOXFORD	MA	01921
32-01-21	28 MIDDLETON RD	TOWN OF BOXFORD		7A SPOFFORD RD	BOXFORD	MA	01921
32-01-22	27 MAIN ST	TOWN OF BOXFORD		7A SPOFFORD RD	BOXFORD	MA	01921
32-01-23	31 MAIN ST	RUSSELL, GORDON		31 MAIN ST	BOXFORD	MA	01921
32-01-24	25 MAIN ST	CUGINI DAVID J TE	RUDDY-CUGINI DENISE A	25 MAIN ST	BOXFORD	MA	01921
32-01-25	20 MAIN ST	FOSTER DOROTHY A - TRUSTEE	C/O DEBRA DYER	PO BOX 177	BOXFORD	MA	01921
32-01-09	13 MAIN ST	ADAMS JOHN N TE	ADAMS MARGARET W	13 MAIN ST	BOXFORD	MA	01921
32-02-16	4 MILL RUN RD	MESSENGER JAMES BEN TE	MESSENGER PAMELA CAMPBELL	4 MILL RUN RD	BOXFORD	MA	01921
32-02-17	MILL RUN RD	TOWN OF BOXFORD		7A SPOFFORD RD	BOXFORD	MA	01921
32-02-25	34 MAIN ST	LORANGER DANIEL D. TE	LORANGER ROSEMARY M.	34 MAIN ST	BOXFORD	MA	01921
32-02-06	40 MIDDLETON RD	TOWN OF BOXFORD		7A SPOFFORD RD	BOXFORD	MA	01921
32-02-07	3 MILL RUN RD	WALSH DANIEL J	WALSH STEPHANIE ANN	3 MILL RUN RD	BOXFORD	MA	01921
32-03-12	48 MAIN ST	GLASS SHARON B - TRUSTEE	BRACKETT REALTY TRUST	48 MAIN ST	BOXFORD	MA	01921
32-03-13	46 MAIN ST	OLDAKOWSKI PATRICIA A TR	46 MAIN STREE REALTY TRUST	PO BOX 341	BOXFORD	MA	01921
32-03-14	43 MIDDLETON RD	MULVEY EDWARD J JR	MULVEY CHERYL A	43 MIDDLETON RD	BOXFORD	MA	01921
32-03-26	COR MAIN & MIDDLETON RD	TOWN OF BOXFORD		7A SPOFFORD RD	BOXFORD	MA	01921

CERTIFIED COPY
 10/17/2022

Heather Thifault

Does the property, structure and/or use conform to the current Zoning Bylaw? Yes

If not, describe the non-conformity (lot size, setback, use, frontage, etc.) N/A

ZONING DISTRICT: R-A B-1 B-2 M O ELDERLY POND WATERSHED OVERLAY WIRELESS COMMUNICATION SERVICES
FLOODPLAIN SOLAR OVERLAY

DATE LOT WAS CREATED: _____ DATE STRUCTURE WAS BUILT: _____

DEED (Copy must be attached. Deed may be downloaded and printed from www.salemdeeds.com):

[BOOK 4210 PAGE 376] OR [CERTIFICATE NO. _____ DOCUMENT NO. _____]
[BOOK 40910 PAGE 056]

POSTAGE FEE CALCULATION

POSTAGE FEE

In accordance with Article X, Section 196-49 of the Zoning bylaw of the Town of Boxford, you are required to pay the postage costs for the abutter notification of your application and decision.

The following is the formula used for determining the postage costs for each application:

Number of Certified Abutters (including applicant & representative) Notice of Hearing)	<u>22</u> x \$7.38 = <u>\$162.36</u>
Number of Surrounding Towns & MVPC	9 x \$7.38 = \$66.42
Number of Certified Abutters (including applicant & representative) Notice of Decision	<u>22</u> x \$0.58 = <u>\$12.76</u>
TOTAL AMOUNT OWED FOR POSTAGE FEE	\$ <u>241.54</u>

Please remit a check separate from the filing fee, payable to the Town of Boxford, for the total amount owed for postage.



Zoning Board of Appeals

Effective July 1, 1997, applicants of the Zoning Board of Appeals will be billed directly by the Community Newspaper Company for the publication of their legal notice. In order for the newspaper to bill you, please provide the following information:

PLEASE PRINT

Name Stephen Clifford, Tri-Town School Union

Mailing Address 28 Middleton Road

City/Town Boxford State MA Zip Code 01921

Daytime phone number 978-887-2856

Evening phone number 978-479-7713

AUTHORIZATION FOR PUBLICATION

I hereby authorize the Community Newspaper Company to bill me directly for the publication of my legal notice in the Tri Town Transcript.

Signature

Date



TOWN OF BOXFORD

BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT HARRY LEE COLE SCHOOL

ZONING

SCHOOL:
SITE ADDRESS:
PARCEL MAP/LOT
ZONING DISTRICT
OVERLY DISTRICT

HARRY LEE COLE SCHOOL
26 and 28 MIDDLETON ROAD
32-4-21
O--OFFICIAL OR OPEN SPACE DISTRICT
NONE

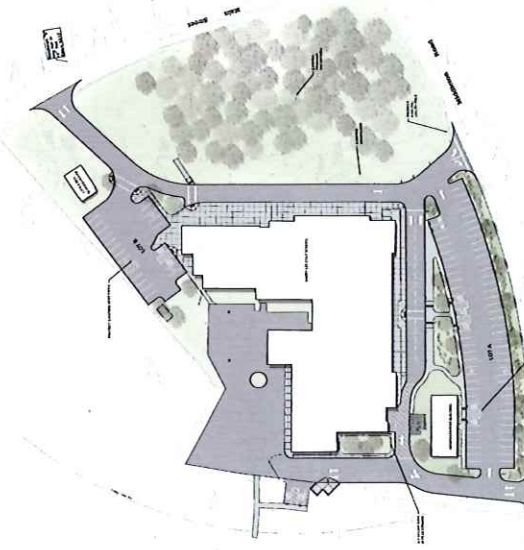
Description	Required	Proposed
Minimum Lot Dimensions		
Area (Acres)	N/A	N/A
Frontage on street	N/A	N/A
Minimum Required Yard Dimensions/Subsets		
Front Yard (1)	50	N/A
Side Yard	N/A	N/A
Back Yard	N/A	N/A
Max. Bldg. Height		
Stories	3	N/A
Feet	35	N/A
Coverage (2)		
Building Coverage % of lot area	25%	N/A
Accessory Buildings or Structures		
Min. Bldg. Separation	20	N/A
Subsequent setbacks	20	N/A

WAIVER REQUESTS

- 184-39. NEW DRIVEWAYS**
B23. DRIVEWAYS: The first 25 feet in from the paved portion of the public way shall have a max slope of 3%; the max driveway slope along the centerline shall be 12%; any slopes over 8% shall be paved. To preserve the stability of the natural topography, no cut or fill in excess of 8 feet of the natural topography shall be allowed within the limits of the driveway cross section.

SHEET INDEX

C001	LEGEND, GENERAL NOTES & SYMBOLS
C002	LAND SURVEY- HARRY LEE COLE 1
C003	LAND SURVEY- HARRY LEE COLE 2
C004	LAND SURVEY- HARRY LEE COLE 3
C100	EXISTING CONDITIONS PLAN
C101	EXISTING CONDITIONS PLAN
C110	SITE PREPARATION & EROSION & SEDIMENT CONTROL PLAN
C111	TEMPORARY CONSTRUCTION STAGING & PARKING PLAN
C120	OVERALL MATERIALS & LAYOUT PLAN
C121	MATERIALS & LAYOUT ENLARGEMENT PLAN
C122	OVERALL GRADING PLAN
C130	GRADING ENLARGEMENT PLAN
C131	GRADING ENLARGEMENT PLAN
C132	OVERALL DRAINAGE PLAN
C133	DRAINAGE ENLARGEMENT PLAN
C134	DRAINAGE ENLARGEMENT PLAN
C135	DRAINAGE ENLARGEMENT PLAN
C136	SEPTIC PLAN AND NOTES
C137	SEPTIC PROFILE AND DETAILS
L100	OVERALL PLANTING PLAN
L101	PLANTING ENLARGEMENT PLAN
L102	PLANTING ENLARGEMENT PLAN
C500-509	SITE CONSTRUCTION DETAILS
E000	GENERAL NOTES AND ABBREVIATIONS
E100	ELECTRICAL SCHEMATIC
E200	ELECTRICAL SCHEMATIC
E300	ELECTRICAL SCHEMATIC
E400	ELECTRICAL SCHEMATIC
E500	ELECTRICAL SCHEMATIC
E600	ELECTRICAL SCHEMATIC
E700	ELECTRICAL SCHEMATIC
E800	ELECTRICAL SCHEMATIC



* RENDERING FOR ILLUSTRATIVE PURPOSES ONLY *

BID SET

MAY 6, 2022
REVISED OCTOBER 6, 2022

LANDSCAPE ARCHITECTURAL, CIVIL,
ENVIRONMENTAL, ELECTRICAL AND
UTILITY DESIGN
55 Walkers Brook Drive, Suite 100
Reading, MA 01867
(978) 532-1900
www.westonandsampson.com



STEVE CLIFFORD, DIRECTOR OF FACILITIES
BOXFORD PUBLIC SCHOOLS
28 MIDDLETON ROAD
BOXFORD, MA 01921
978-887-0771 ext. 225



JAMES PEARSON, PE, TECHNICAL SPECIALIST
55 WALKERS BROOK DRIVE
READING, MA 01867
978-532-1900

Locus Map



HARRY LEE COLE SCHOOL
26 MIDDLETON ROAD, BOXFORD, MA 01921

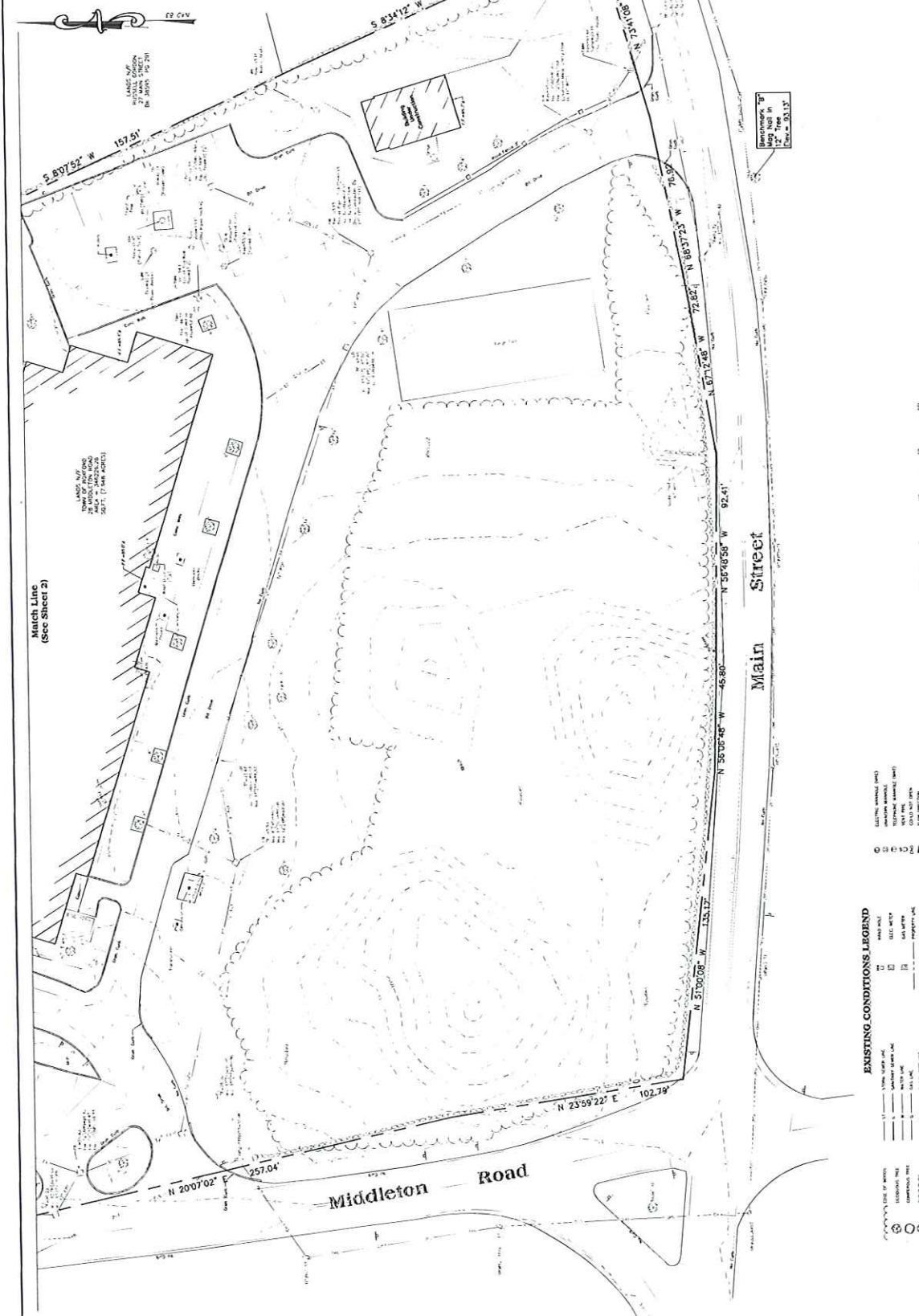


LOCATION MAP
NOT TO SCALE

SURVEY NOTES:

1. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE BASED ON THE RECORD DRAWINGS AND FIELD SURVEY. THE SURVEYOR HAS CONDUCTED VISUAL INSPECTIONS AND TESTS TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES ADJACENT TO THE BARRIERS PREMISES.
2. SURVEY PERFORMED BY WESTON & SAMPOON ENGINEERS IN OCTOBER 2010.
3. CONTOURS AND ELEVATIONS SHOWN BASED ON GPS OBSERVATIONS.
4. NORTH ORIENTATION IS BASED ON THE OBSERVATIONS TAKEN AT THE FIELD STATION. THE BARRIERS ARE SHOWN BASED ON MOST RECENT PLANS ON FILE AT THE COUNTY REGISTER'S OFFICE.
5. SKETCHLINE ALONG ADDITION ROAD, AS DEPICTED HEREON, IS THE CENTERLINE OF THE ROAD. THE CENTERLINE OF THE ROAD IS NOT TO BE CONSIDERED FOR ADDITION ROAD TYPING.

LANDS OF
TOWN OF BOXFORD
COUNTY OF ESSEX
PL. 2009, P. 213



MAP REFERENCES:

1. MAP ENTITLED "PLAN OF LAND IN BOXFORD, MASSACHUSETTS, PREPARED BY DAVID J. BROWN AND JOHN W. BROWN, REGISTERED PROFESSIONAL SURVEYORS, COUNTY OF ESSEX IN BOOK 1937, PLAN 25.
2. MAP ENTITLED "PLAN OF LAND FOR GORDON A. BUSTELL, REGISTERED PROFESSIONAL SURVEYOR, COUNTY OF ESSEX IN BOOK 1937, PLAN 25.
3. MAP ENTITLED "PLAN OF LAND IN BOXFORD, MASSACHUSETTS, PREPARED BY DAVID J. BROWN AND JOHN W. BROWN, REGISTERED PROFESSIONAL SURVEYORS, COUNTY OF ESSEX IN BOOK 1937, PLAN 25.
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WESTON & SAMPOON ENGINEERS, INC.
175 WASHINGTON STREET, SUITE 200, WESTON, MASSACHUSETTS 02457
TEL: 978.335.1200
WWW.WESTONANDSAMPOON.COM

IDENTIFY THAT THE PROPERTY LINES SHOWN ARE THE LINES BOUNDING EXISTING CONVEYANCES, AND THE LINES OF BARRIERS AND TYPING ARE FOR THE PURPOSES OF THE DIVISION OF EXISTING CONVEYANCES FOR NEW PAVEMENT SHOWN.

Michael G. Wilson 11/11/20
Surveyor General

EXISTING CONDITIONS LEGEND

Symbol	Description
Circle with dot	EXISTING BARRIERS (MET)
Square with dot	EXISTING BARRIERS (CONC)
Circle with cross	EXISTING BARRIERS (ASPH)
Square with cross	EXISTING BARRIERS (GRAVEL)
Circle with horizontal lines	EXISTING BARRIERS (WOOD)
Square with horizontal lines	EXISTING BARRIERS (CONCRETE)
Circle with vertical lines	EXISTING BARRIERS (METAL)
Square with vertical lines	EXISTING BARRIERS (WOOD)
Circle with diagonal lines	EXISTING BARRIERS (CONCRETE)
Square with diagonal lines	EXISTING BARRIERS (WOOD)
Circle with wavy lines	EXISTING BARRIERS (METAL)
Square with wavy lines	EXISTING BARRIERS (WOOD)
Circle with dots	EXISTING BARRIERS (CONCRETE)
Square with dots	EXISTING BARRIERS (WOOD)
Circle with horizontal lines	EXISTING BARRIERS (METAL)
Square with horizontal lines	EXISTING BARRIERS (WOOD)
Circle with vertical lines	EXISTING BARRIERS (CONCRETE)
Square with vertical lines	EXISTING BARRIERS (WOOD)
Circle with diagonal lines	EXISTING BARRIERS (METAL)
Square with diagonal lines	EXISTING BARRIERS (WOOD)
Circle with wavy lines	EXISTING BARRIERS (METAL)
Square with wavy lines	EXISTING BARRIERS (WOOD)



BOXFORD PUBLIC RESTORATION PROJECT

HARRY LEE COLE SCHOOL
25 AND 28 MIDDLETON ROAD
BOXFORD, MA 02121

Western & Sampson Engineers, Inc.
Western & Sampson Engineers, Inc.
55 Water Street, Suite 100
Boston, MA 02109
TEL: 617.552.1100
www.westernandsampson.com

No.	Date	Drawn
1	10/20/22	REVISED CLIENT

Sheet No. **BID SET**

Scale: **AS SHOWN**

Date: **MAY 6, 2022**

Drawn By: **EJA**

Reviewed By: **CD**

Approved By: **JD**

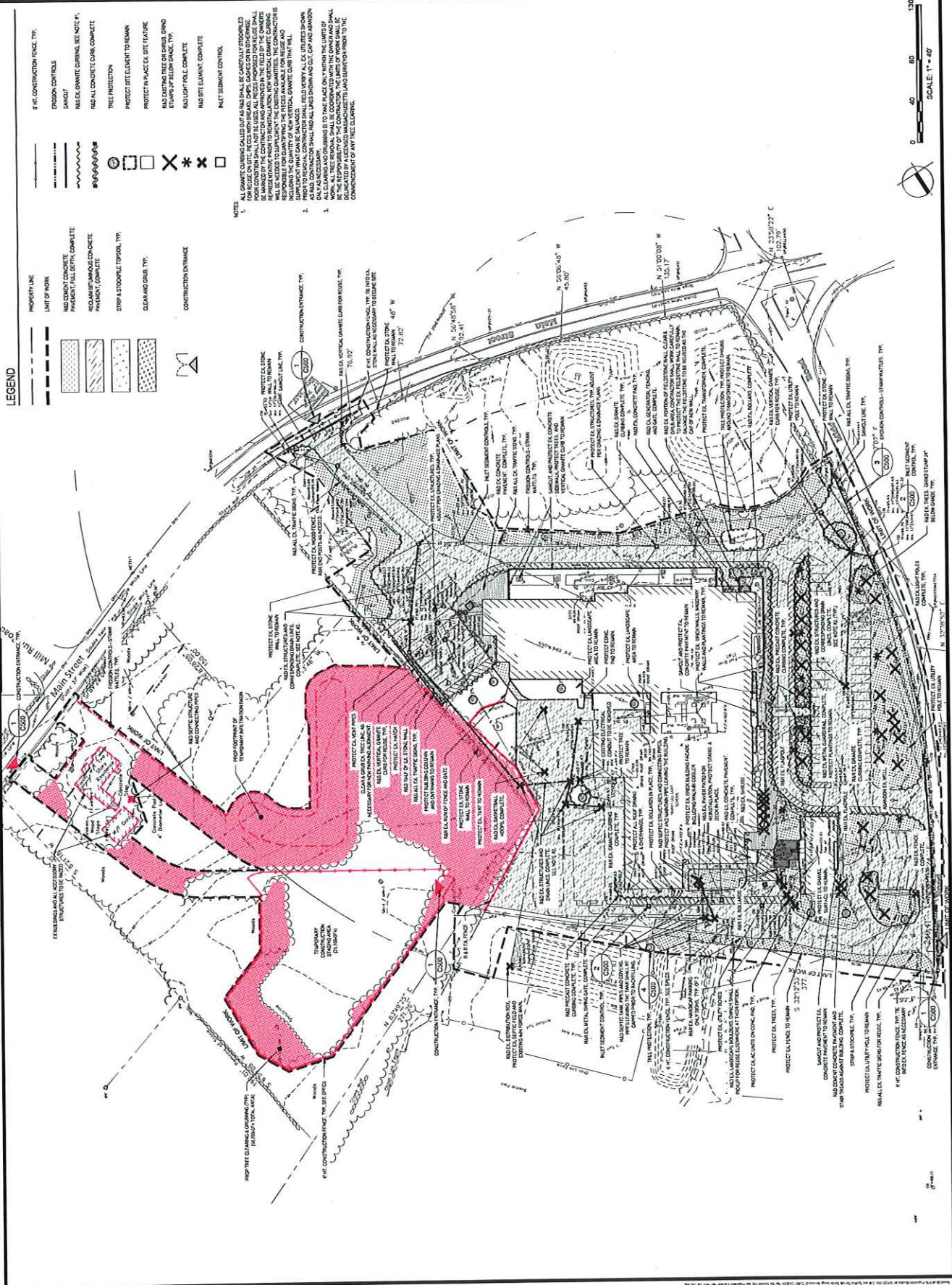
W&S Project No.: **ENG-20-005**

W&S File No.:

SITE PREPARATION & EROSION & SEDIMENT CONTROL PLAN

Sheet No. **C110**

CONTRACTOR: **GRAND WESTON LAMPSON, INC.**



BOXFORD PUBLIC RENOVATION PROJECT



HARRY LEE COLE SCHOOL
25 AND 28 MIDDLETON ROAD
BOXFORD, MA 01821

Weston & Sampson Engineers, P.C.
25 Washington Street
Boston, MA 02107
TEL: 617.552.1300
www.westonsampson.com

Revisions	No.	Date	Description
	1	10/20/22	REV. PER CLIENT

Project No.	1000000000
Client	Boxford Public Schools
Project Name	Harry Lee Cole School Renovation
Project Location	25 and 28 Middleton Road, Boxford, MA
Project Status	Design
Project Manager	[Redacted]
Project Engineer	[Redacted]
Project Designer	[Redacted]
Project Checker	[Redacted]
Project Approver	[Redacted]

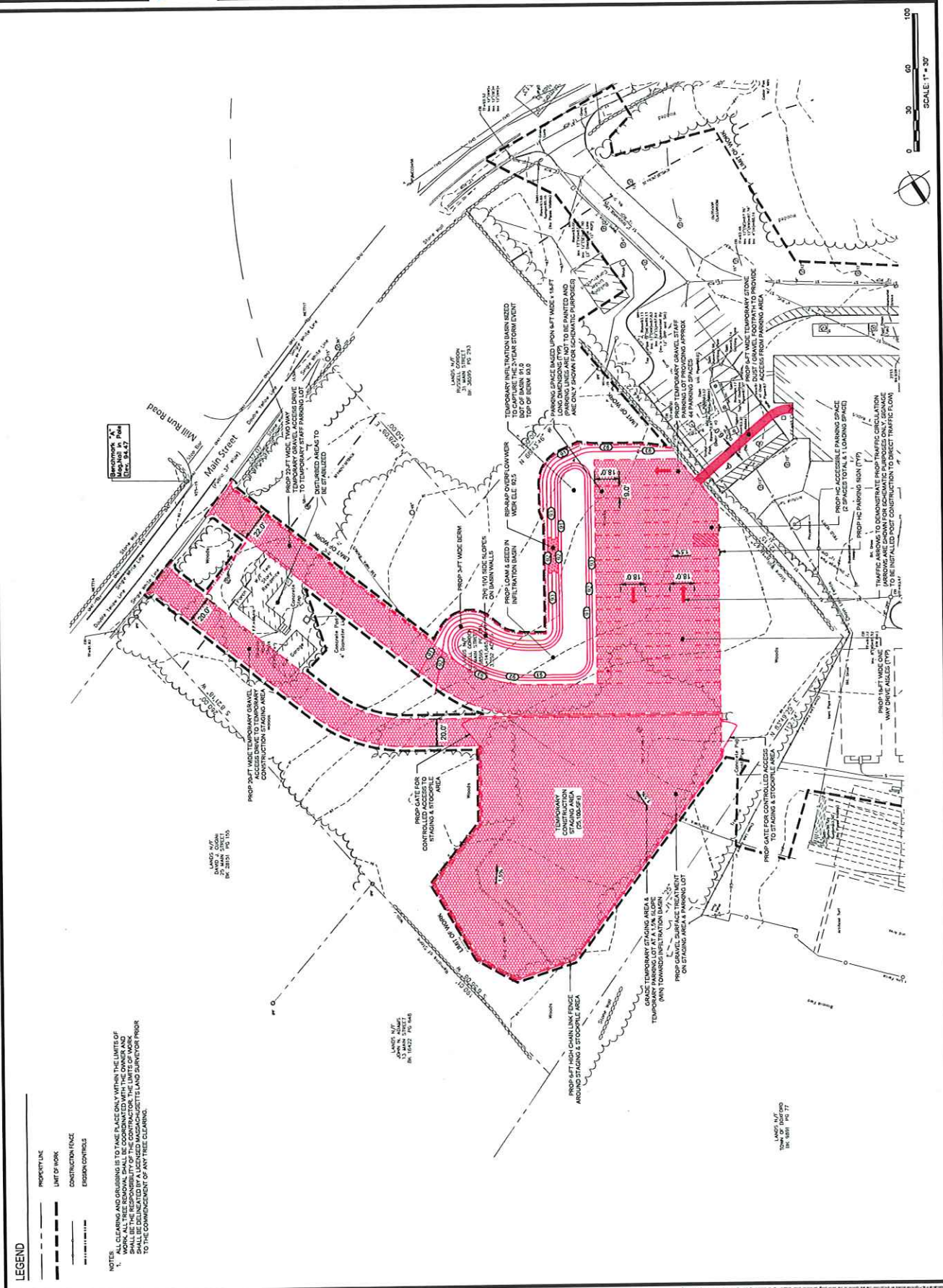
Scale	AS SHOWN
Date	MAY 9, 2022
Drawn By	EJA
Reviewed By	CS
Approved By	JJP
West Plot No.	ENC0000005
West File No.	[Redacted]

Drawn By: [Redacted]

TEMPORARY CONSTRUCTION STAGING & PARKING PLAN

Sheet No: **C111**

Scale: 1" = 30'

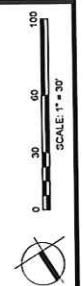


LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- CONSTRUCTION FENCE
- EROSION CONTROLS

NOTES

- ALL CLEARING AND GRUBBING IS TO TAKE PLACE WITHIN THE LIMITS OF WORK AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE LIMITS OF WORK SHALL BE DETERMINED BY THE CONTRACTOR'S LAND SURVEYOR PRIOR TO THE COMMENCEMENT OF ANY TREE CLEARING.





Weston & Sampson
 Weston & Sampson Engineers, Inc.
 55 Main Street, Suite 100
 Westford, MA 01887
 TEL: 978.332.1800
 www.westonandsampson.com

No.	Date	Revised
1	02/20/22	REVISED CLIENT

Scale:	AS NOTED
Date:	MAY 6, 2022
Drawn By:	CTV
Reviewed By:	JIP
Approved By:	JRF
WAS Permit No.:	ENC0000005
MASS REG. NO.:	

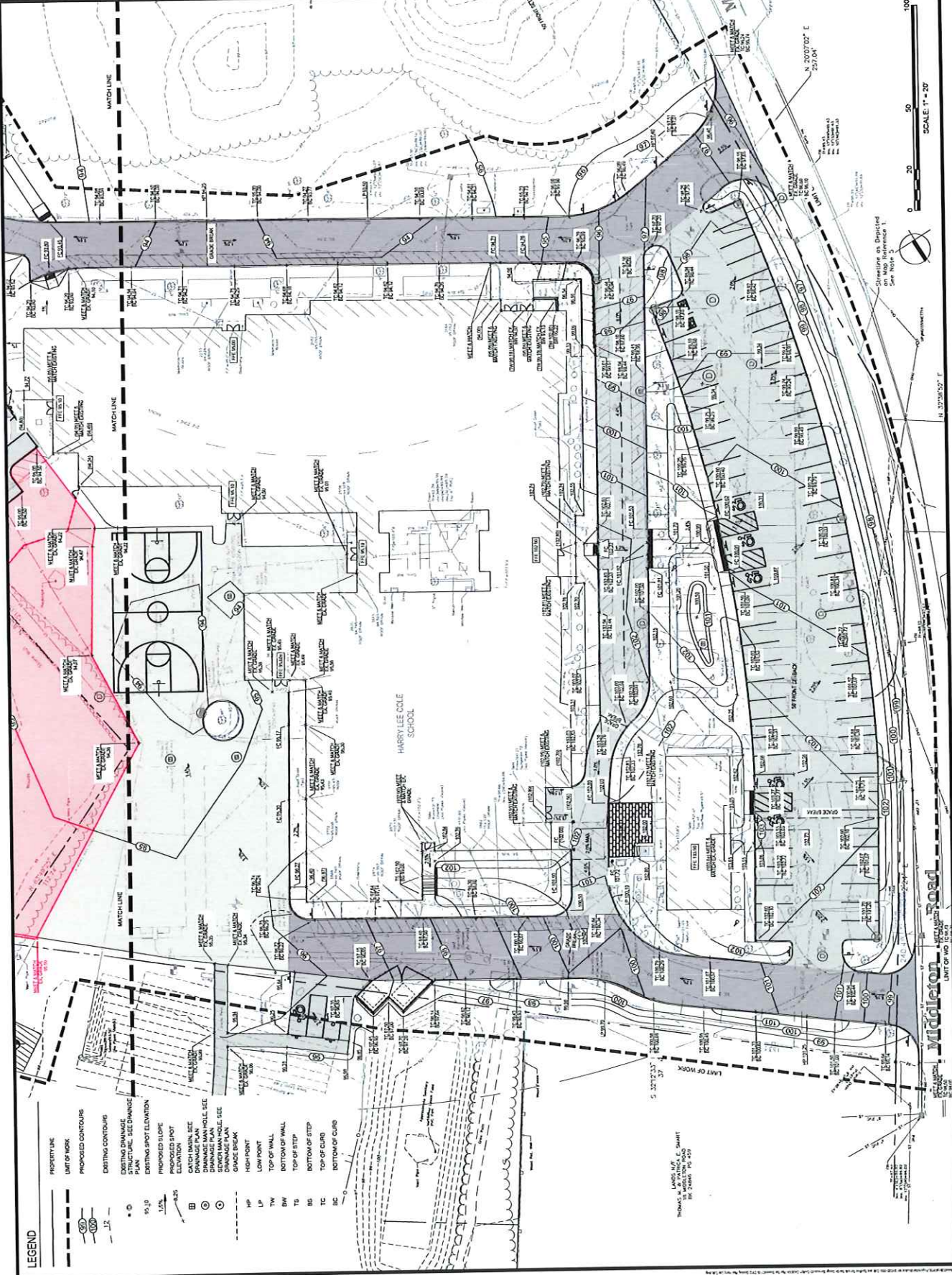
BID SET	
Project No.:	

GRADING ENLARGEMENT PLAN

C131

Sheet No.:

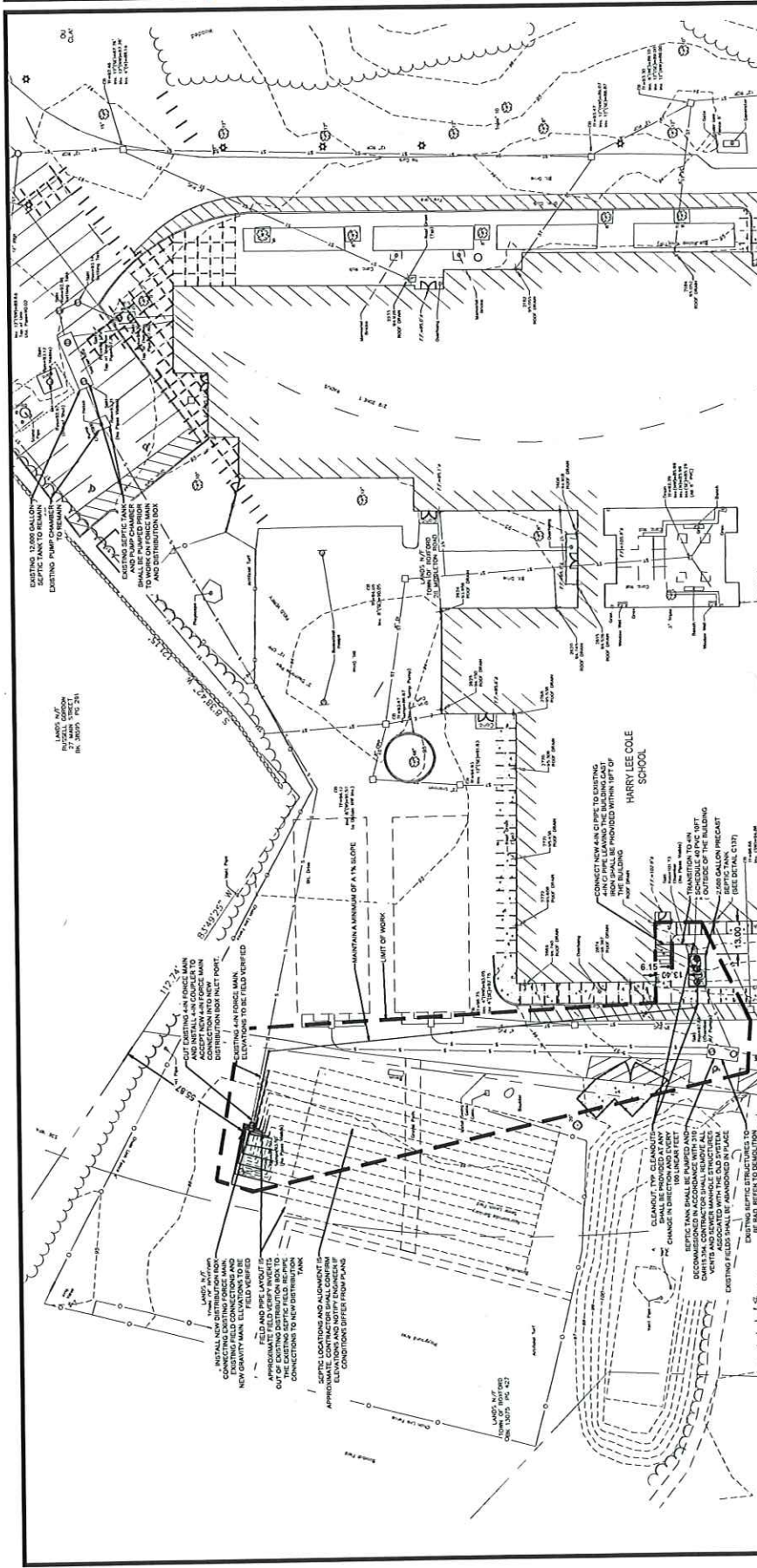
COMPILED BY: WESTON & SAMPSON, INC.



LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- PROPOSED CONTOURS
- EXISTING CONTOURS
- EXISTING DRAINAGE PLAN
- STRUCTURAL SEE DRAINAGE PLAN
- EXISTING SPOT ELEVATION
- PROPOSED SLOPE
- PROPOSED SPOT ELEVATION
- CATCH BASIN SEE DRAINAGE PLAN
- SEWER MANHOLE SEE DRAINAGE PLAN
- SEWER MANHOLE SEE DRAINAGE PLAN
- SEWER MANHOLE SEE DRAINAGE PLAN
- SEWER MANHOLE SEE DRAINAGE PLAN
- HIGH POINT
- LOW POINT
- TOP OF WALL
- BOTTOM OF WALL
- TOP OF STEP
- BOTTOM OF STEP
- TOP OF CURB
- BOTTOM OF CURB

DATE: MAY 6, 2022
 DRAWN BY: CTV
 CHECKED BY: JIP
 APPROVED BY: JRF



NOTES

- DOUBLE WASHED STONE SHALL BE FREE OF IRON, FINES, AND DUST IN ACCORDANCE WITH 310 CMR 15.247.
- FILL PLACEMENT, IF REQUIRED BY THE ENGINEER, WILL BE IN ACCORDANCE WITH 310 CMR 15.25(5).
- CONTRACTOR SHALL INSTALL TANKS IN A MANNER WHICH WILL PREVENT UNDERCUTTING OF NEW BUILDING FOUNDATIONS.
- THE SEPTIC SYSTEM INSTALLER SHALL HAVE A CURRENT DISPOSAL WORKS INSTALLERS LICENSE AND SHALL OBTAIN A DISPOSAL WORKS CONSTRUCTION PERMIT PRIOR TO CONSTRUCTION.
- PLUMBERS SHALL NOTIFY THE ENGINEER AND BOARD OF HEALTH A MINIMUM OF 48 HOURS AHEAD OF EXCAVATION.
- PLUMBERS CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING SANITARY PIPE TO A LIMIT OF 10'-0" FROM THE BUILDING. GENERAL CONTRACTOR IS RESPONSIBLE FOR EXTENDING SERVICES FROM LIMIT OF THE PLUMBERS WORK TO THE SEPTIC TANKS ACCORDINGLY.
- GENERAL CONTRACTOR SHALL EXCAVATE AND BACKFILL FOR ALL EXTERIOR PLUMBING WORK.
- CONTRACTOR SHALL VERIFY ALL CONNECTIONS TO OTHER UTILITIES AND MAKE ADJUSTMENTS AS NEEDED AT NO ADDITIONAL COST TO THE OWNER.
- AN ENGINEERED AS-BUILT SHALL BE PREPARED AND SUBMITTED TO THE BOYFORD BOARD OF HEALTH.
- CONTRACTOR IS REQUIRED TO OBTAIN A SEPTIC INSTALLERS LICENSE TO WORK ON A SEPTIC SYSTEM WITHIN THE TOWN OF BOYFORD.
- SEPTIC SYSTEM UPGRADE DESIGN IS PENDING A PASSING TITLE V EVALUATION.

PIPE LOADING CALCULATION

(REF: UN-BELL HANDBOOK OF PVC PIPE)
 FOR HDG LOADING AND T' OF COVERS
 TOTAL LIVE+HEAD LOAD = 1,000 PSF = 11.1 PSI
 (FIG. 11, PG. 104)
 FOR HDG LOADING, T' COVER, HIGHWAY CONDITIONS:
 IMPACT FACTOR = 1.5
 SAFETY FACTOR = 1.5
 PIPE STRESS = (11.1 PSI)(1.5)(1.5) = 25.0 PSI
 ALLOWABLE PIPE STRESS:
 (TABLE 24)
 SR 33 = 46 PSI > 25.0 PSI => OK

LEACHING FIELD DESIGN:

4,440 GPD DESIGN = 6,000 SF OF FIELD REQUIRED
 ELEM. 0.74 GPD/SF
 EFFECTIVE LEACHING AREA = 6,000 SF OF FIELD PROVIDED
 100' LONG X 60' WIDE X 1' DEEP
 FIELD SUMMARY

REQUIRED	PROVIDED	GPD
6,000	6,000	3,312
4,440	4,440	4,440

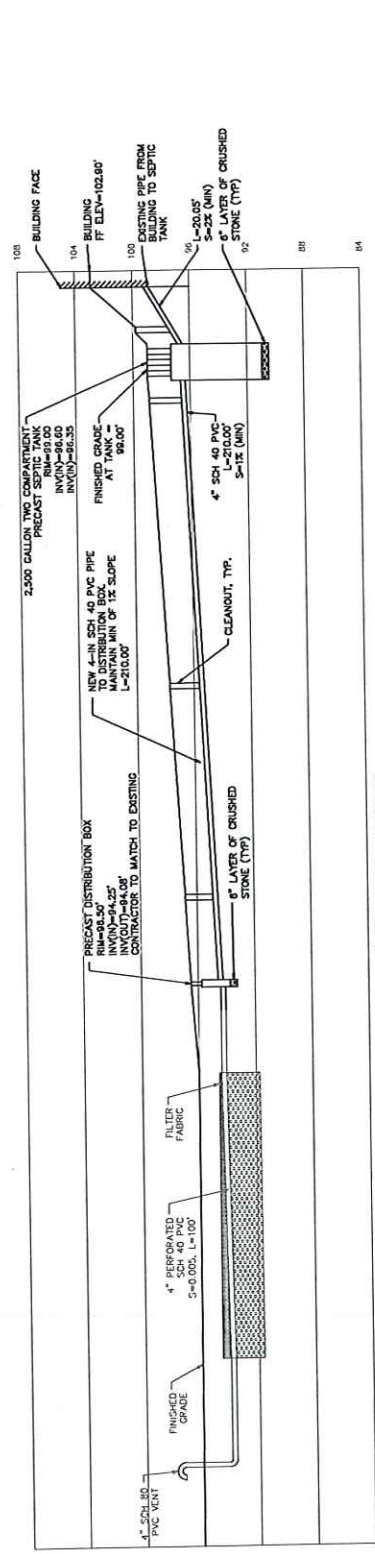
EXISTING DESIGN CRITERIA PER 310 CMR 15.000

SCHOOL SYSTEM W/ DAYCARE
 8 GPD PER PERSON
 414 PERSONS (STUDENTS AND FACULTY)
EXISTING DESIGN FLOW
 DESIGN FLOW = 4,440 GPD
 8 GPD/PERSON X 555 PERSONS = 4,440 GPD
 EXISTING SYSTEM DESIGNED FOR 4,440 GPD
 LOADING RATE 0.74 GALLONS/SF USED
 EXISTING LEACHING AREA: 60FT X 100FT = 6,000SQFT
 MAXIMUM TITLE V HYDRAULIC LOADING:
 6,000SQFT X 0.74 GALLONS/SF = 4,440 GALLONS
 CURRENT HYDRAULIC LOADING:
 8 GPD/PERSON X 414 PERSONS = 3,312 GPD
 SURPLUS OF 1,128 GPD

EXISTING SEPTIC TANK DESIGN

DESIGN FLOW = 4,400 GPD
 TWO COMPARTMENT TANK (310 CMR 15.224)
 1ST COMPARTMENT TANK (310 CMR 15.224)
 VOLUME = 2 DAYS X DESIGN FLOW = 2 DAYS X 4,440 GPD = 8,880 GAL
 2ND COMPARTMENT TANK (310 CMR 15.224)
 VOLUME = 1 DAY X DESIGN FLOW = 1 DAY X 4,440 GPD = 4,440 GAL
 TANK PROVIDED = 13,320 GALLONS
 SECONDARY TANK VOLUME HAS CAPACITY TO HANDLE ADDITIONAL FLOW OF 1,320 GAL

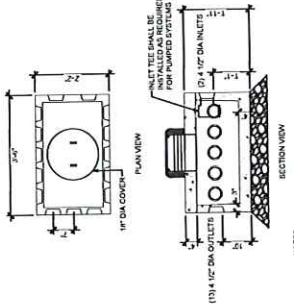




SEPTIC SYSTEM PROFILE
SCALE: HORIZONTAL 1"=20'
VERTICAL 1"=4'

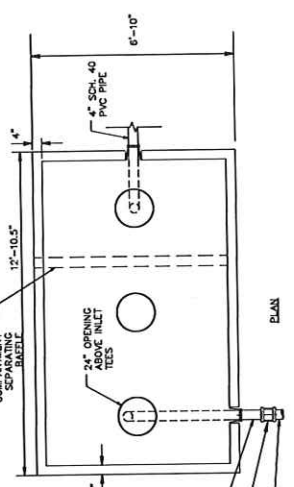
SEPTIC TANK NOTES:

1. CONCRETE, 5,000 PSI AFTER 28 DAYS.
2. TANK AND COVERS TO MEET ASPH/TO H-20 LOADING.
3. KEYS JOINT TO BE SEALED WITH BUTYL RUBBER.
4. PRECAST CONCRETE SEPTIC TANK SHALL MEET REQUIREMENTS OF 310 CMR 15.223 THROUGH 15.228.
5. INLET TEE TO EXTEND BELOW LIQUID LEVEL IN ACCORDANCE WITH 310 CMR 15.227.
6. SEPTIC TANK TEES SHALL EXTEND A MINIMUM OF 6" ABOVE THE FLOW LINE.
7. ALL SEPTIC TANK MANHOLE FRAMES AND COVERS SHALL BE ADJUSTED TO FINISHED GRADE AS DETAILED ABOVE. FIBER REINFORCED PRECAST CONCRETE MANHOLE DONUTS SHALL BE USED TO ADJUST MANHOLE FRAMES TO GRADE WHEN THE USE OF BRICKS EXCEEDS ONE VERTICAL FOOT.



NOTES:

1. DISTRIBUTION BOX SHALL BE PLACED ON A MINIMUM 6" CRUSHED STONE BASE.
2. DISTRIBUTION BOX SHALL BE PLACED WITH GROUT.
3. OUTLET LINES FROM THE DISTRIBUTION BOX SHALL BE 4" SCH 40 PVC WITH 90° ELBOWS.
4. CONCRETE, 5,000 PSI AFTER 28 DAYS.
5. KEYS JOINT TO BE SEALED WITH BUTYL RUBBER.

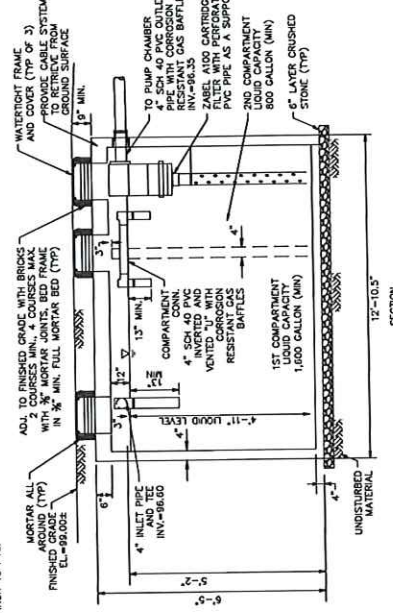


PLAN

24" OPENING SEPARATING BAFFLES

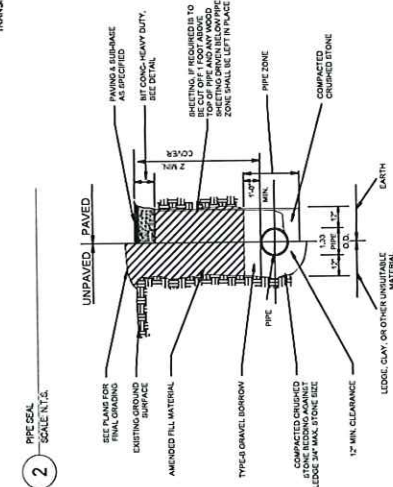
4" SCH 40 PVC PIPE

6" LAYER OF CRUSHED STONE (TYP)



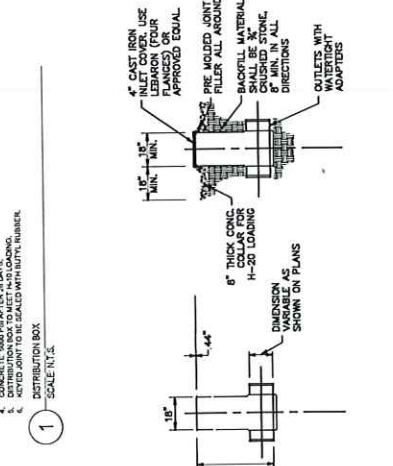
SECTION

SCALE: 1/2"=1'-0"



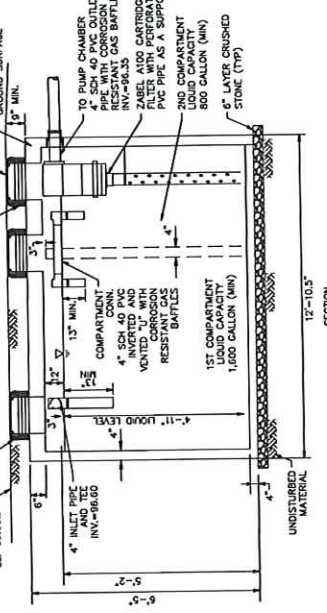
PIPE SEAL

SCALE: N.T.S.



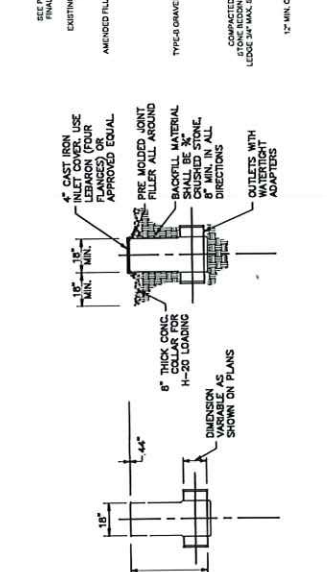
PIPE SEAL

SCALE: N.T.S.



SEWER AND DRAIN CLEAOUT

SCALE: N.T.S.



SEWER AND DRAIN CLEAOUT

SCALE: N.T.S.

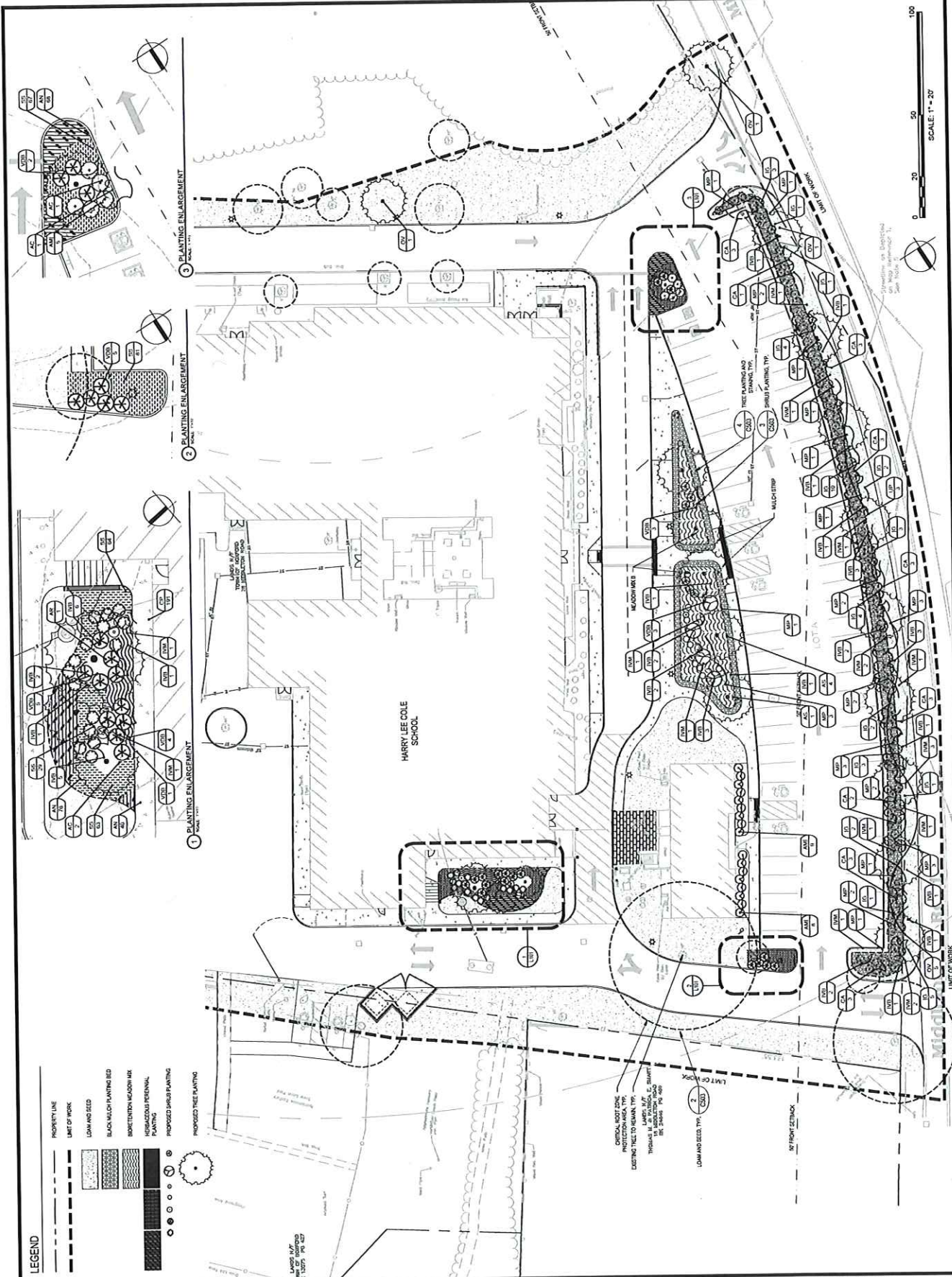
No.	Date	Description



PERMITTING	
Scale:	AS SHOWN
Date:	MAY 6, 2022
Drawn By:	CLM
Reviewed By:	CDJ
Approved By:	JJP
W&L Project No.:	END000085
W&L File No.:	

Drawing Title:
PLANTING ENLARGEMENT PLAN

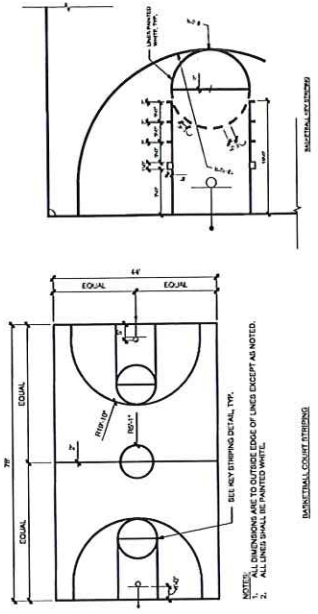
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L101



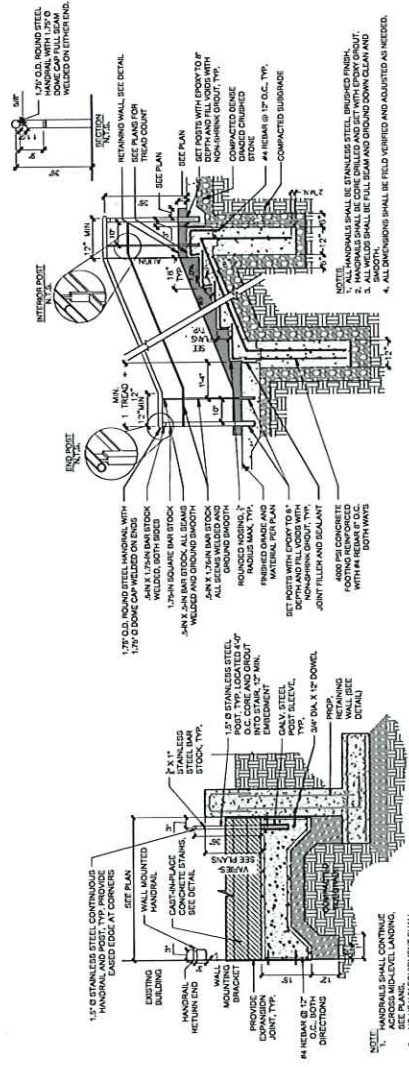
MUTCD CATION NUMBER	TEXT	PANEL SIZE			NUMERALS & LETTERS			COLOR COMB.	NUMBERS REQUIRED	TOTAL AREA, SQ. FT.	POST SIZE AND NUMBER REQUIRED
		WIDTH	HEIGHT	CORNER RADI	MARGIN WIDTH	NUM. IN. CASE	UPPER CASE				
R-1		30"	30"					WHITE RED	4	12.50	PS-1 1
RS-1		30"	30"					WHITE ON RED	5	18.00	PS-1 2
RC-1		30"	12"					BLACK ON WHITE	9	5.00	PS-1 2
RT-8		12"	18"					WHITE ON BLUE	5	4.50	PS-1 1
RT-8P		12"	18"					WHITE BLUE	4	4.50	PS-1 2

SEE MUTCD INCLUDING STANDARDIZED HIGHWAY SIGNS, LATEST EDITION

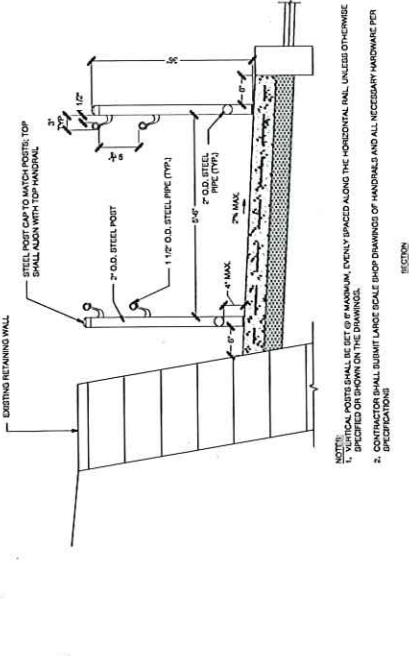
1 PERMANENT TRAFFIC SIGN SUMMARY
SCALE: N.T.S.



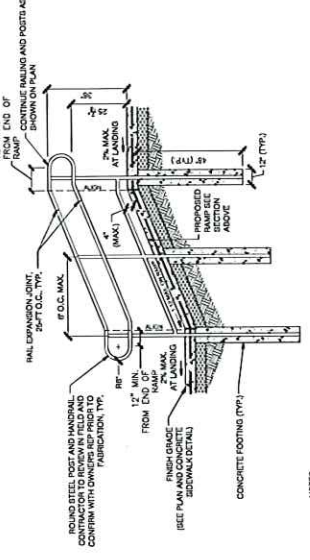
2 BASKETBALL COURT LAYOUT
SCALE: N.T.S.



3 CONCRETE STEP DETAIL
SCALE: N.T.S.



4 RAMP AND HANDRAIL
SCALE: N.T.S.



5 RAMP AND HANDRAIL
SCALE: N.T.S.

