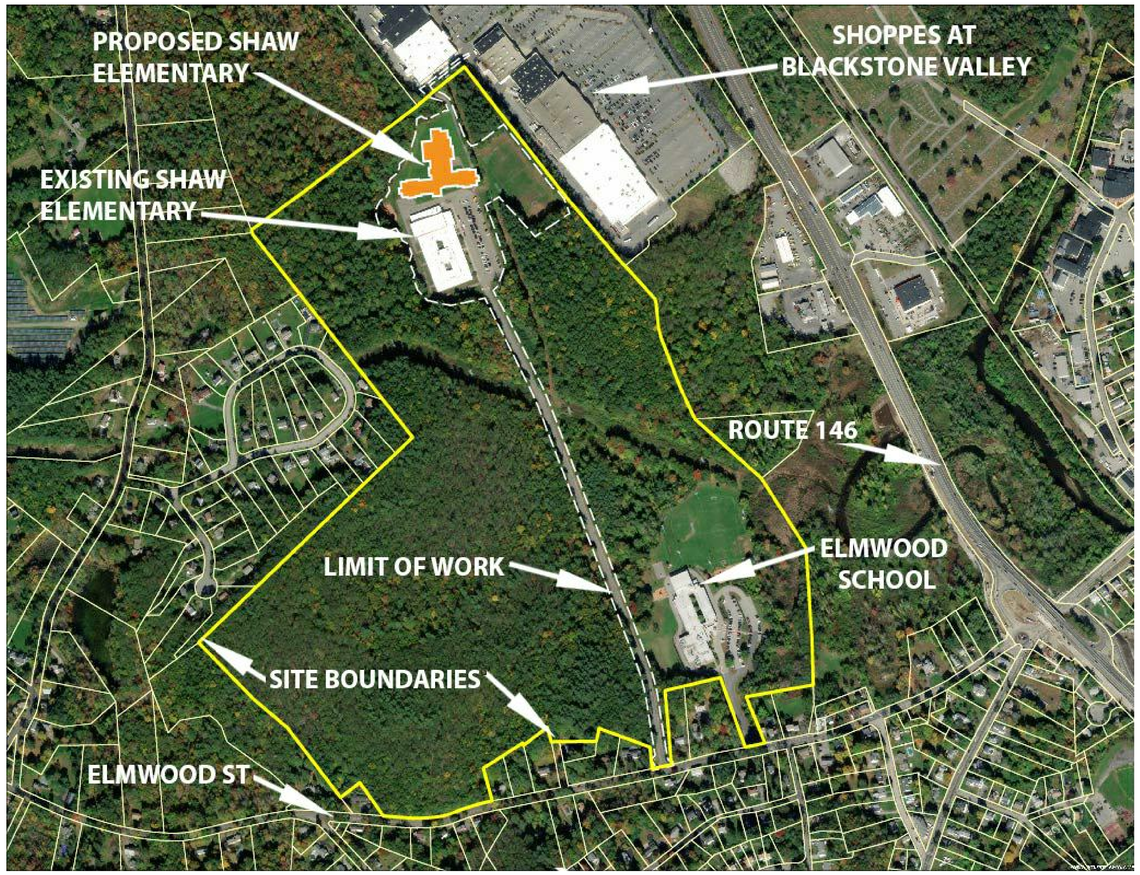

LOCUS/SITE BOUNDAREIS/LIMIT OF WORK

BIRDS EYE VIEW FROM THE SOUTH

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DRAWING LIST

W0.01 COVER SHEET
W0.02 RENDERINGS
A2.00 SOUTH EXTERIOR ELEVATION
A2.01 WEST EXTERIOR ELEVATION
A2.02 NORTH EXTERIOR ELEVATION
A2.03 EAST EXTERIOR ELEVATION
C1.00 CIVIL NOTES
C1.01 ZONING INFORMATION PLAN
C2.00 SITE SEDIMENTATION AND EROSION CONTROL KEY PLAN
C2.01 SITE SEDIMENTATION AND EROSION CONTROL PLAN
C2.02 SITE SEDIMENTATION AND EROSION CONTROL PLAN
C2.10 DRIVEWAY SEDIMENTATION AND EROSION CONTROL KEY PLAN
C2.11 DRIVEWAY SEDIMENTATION AND EROSION CONTROL PLAN
C2.12 DRIVEWAY SEDIMENTATION AND EROSION CONTROL PLAN
C2.13 DRIVEWAY SEDIMENTATION AND EROSION CONTROL PLAN
C3.00 SITE DEMOLITION KEY PLAN
C3.01 SITE DEMOLITION PLAN
C3.02 SITE DEMOLITION PLAN
C3.10 DRIVEWAY DEMOLITION KEY PLAN
C3.11 DRIVEWAY DEMOLITION PLAN
C3.12 DRIVEWAY DEMOLITION PLAN
C3.13 DRIVEWAY DEMOLITION PLAN
C4.00 OVERALL SITE DRIVEWAY LAYOUT PLAN
C4.01 SITE DRIVEWAY LAYOUT PLAN
C4.02 SITE DRIVEWAY LAYOUT PLAN
C4.03 SITE DRIVEWAY SIGNAGE & STRIPING PLAN
C4.04 SITE DRIVEWAY SIGNAGE & STRIPING PLAN
C4.10 OVERALL DRIVEWAY LAYOUT PLAN
C4.11 DRIVEWAY LAYOUT, SIGNAGE, & STRIPING PLAN
C4.12 DRIVEWAY LAYOUT, SIGNAGE, & STRIPING PLAN
C4.13 DRIVEWAY LAYOUT, SIGNAGE, & STRIPING PLAN
C5.00 OVERALL SITE GRADING PLAN
C5.01 SITE GRADING PLAN
C5.02 SITE GRADING PLAN
C5.03 GRADING DETAILS; STORMWATER
C6.00 SITE DRAINAGE KEY PLAN
C6.01 SITE DRAINAGE PLAN
C6.02 SITE DRAINAGE PLAN
C7.00 SITE UTILITY KEY PLAN
C7.01 SITE UTILITY PLAN
C7.02 SITE UTILITY PLAN
C7.03 SITE UTILITY PLAN
C9.00 CENTERLINE PROFILE
C9.01 DRIVEWAY CENTERLINE PROFILE
C9.02 DRIVEWAY CENTERLINE PROFILE
C9.03 DRIVEWAY CENTERLINE PROFILE
C9.04 DRIVEWAY CENTERLINE PROFILE
C11.00 CIVIL DETAILS
C11.01 CIVIL DETAILS
C11.02 CIVIL DETAILS
C11.03 CIVIL DETAILS
C11.04 CIVIL DETAILS
DA-EX EXISTING DRAINAGE AREAS
DA-PR PROPOSED DRAINAGE AREA
L0-0 LANDSCAPE KEY PLAN
L0.1 PLANTING KEY PLAN & SCHEDULE
L1.1 LANDSCAPE LAYOUT (NORTH)
L1.2 LANDSCAPE LAYOUT (SOUTH)
L1.3 PLANTING PLAN (NORTH)
L1.4 PLANTING PLAN (SOUTH)
L2.1 LANDSCAPE LAYOUT DETAIL PLANS
L2.2 LANDSCAPE LAYOUT DETAIL PLANS
L2.3 LANDSCAPE GRADING DETAIL PLANS
L2.4 LANDSCAPE GRADING DETAIL PLANS
L2.5 PLANTING PLAN DETAIL PLANS
L2.6 PLANTING PLAN DETAIL PLANS
L3.1 LANDSCAPE SECTIONS
L4.1 LANDSCAPE DETAILS; GRADING & TREE PROTECTION
L4.2 LANDSCAPE DETAILS; HARDSCAPE & SAFETY SURFACING
L4.3 LANDSCAPE DETAILS; SITE FURNISHINGS
L4.4 LANDSCAPE DETAILS; SITE FURNISHINGS
L4.5 LANDSCAPE DETAILS; SITE FURNISHINGS
L4.6 LANDSCAPE DETAILS; ROOF DECK
L4.7 LANDSACPE DETAILS; PLAYGROUND QUIPMENT & STRUCTURES
L4.8 LANDSCAPE DETAILS; ATHLETIC FIELDS & COURTS
L4.9 LANDSCAPE DETAILS; PLANTING
P1.00B LEVEL 1 BELOW SLAB - PART B - PLUMBING
P1.00C LEVEL 1 BELOW SLAB - PART C - PLUMBING
E0.03 ELECTRICAL SITE PLAN
LC1.0 SITE LIGHTING CALCULATION
SE-000 SECURITY DEVICE SYSTEM COVER
SE-100 SITE - PART A
SE-101 SITE - PART B

ZONING ANALYSIS

Section 22 – Residential Districts

Section 22.12 - Public School is permitted use

Section 22.22 - Residential II District

Section 22.3 - Dimensional Requirements
- 100' Frontage
- 25' Front Yard
- 10' Side Yard
- 10' Rear Yard
- 30% Gross Coverage
- 30' Height

Section 34.6.01 - Signage Size and Height Requirements
- Wall Maximum Height = 6'
- Wall Maximum Size = 4 sf
- Freestanding Size / Height = 6sf/6'

Section 48 – Route 146 Highway Corridor Overlay District

Section 48.31 – Node Classification I – Min. lot area of 16 contiguous acres

Section 48.4 – Open Space
Environmental features should be protected by large expanses
Greenways shall abut open spaces with bicycle paths, hiking trails, wildlife corridors and scenic vistas

Section 48.5 – Buffers
Structure or parking area shall be located at least 50' from property line of the lot containing an existing residence

Section 48.6 – Parking
The guidelines that we are using: 6 spaces per classroom plus 1 space per employee
- Parking Spaces - Max. 8 row fields with 9' linear island separating each row
- Distance from buildings - Min. 8' from buildings
- Illumination - Drives and parking shall be illuminated
- Handicapped parking provided in accordance with MA regulations

Section 48.7 - Landscaping
Buffers at least 15' wide separating parking from highway

Section 48.94 - Dimensional Requirements
- 150' Frontage
- 50' Front Yard, excluding access road
- 50' Side Yard – if abutting existing residential structure
- 50' Rear Yard – if abutting existing residential structure
- 25% Open excluding parking
- 100' Height contingent on site location

PLANNING BOARD APPROVALS

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CONSULTANT:

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REVISIONS:

No.	Description	Date

RAYMOND E. SHAW ELEMENTARY SCHOOL
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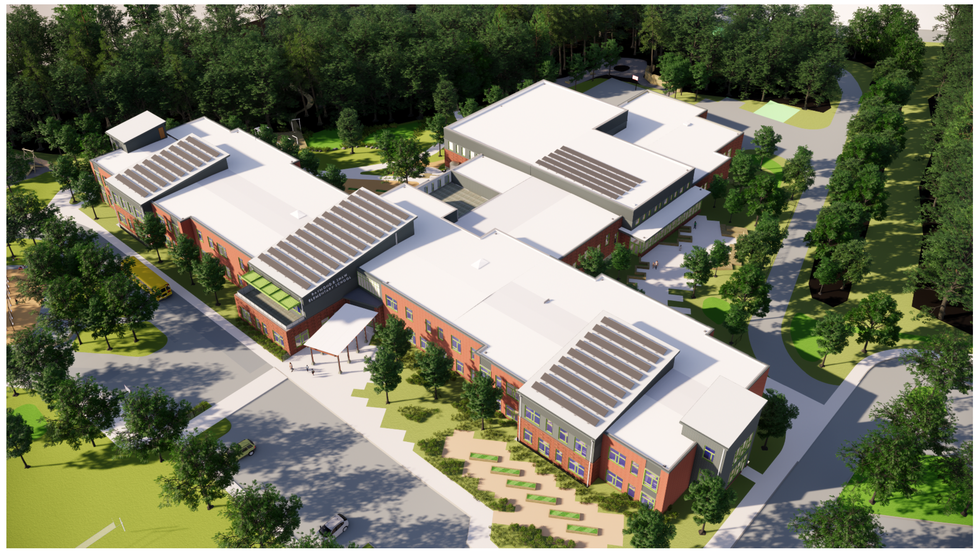
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
PLANNING SUBMISSION COVER SHEET

JOB NUMBER: 18-08
DRAWN BY: TB
CHECKED BY: PT
DATE: 08/05/2020
SCALE:
SHEET NO: W0.01

7/31/2020 4:03:18 PM

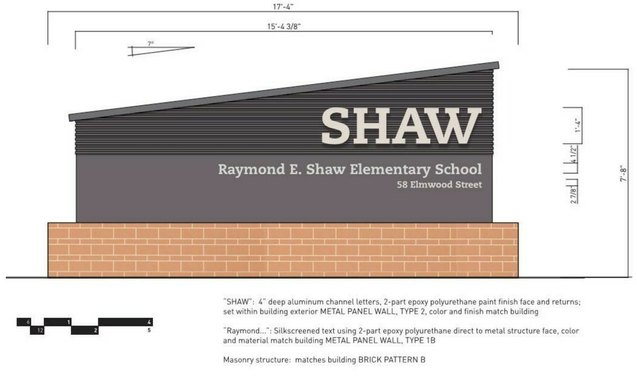


AERIAL VIEW FROM SOUTHEAST

AERIAL VIEW FROM NORTHWEST

MAIN ENTRANCE VIEW

CAFETERIA ENTRANCE VIEW



MONUMENTAL SIGN - RENDERED ELEVATION

SIGN RENDERING - ELMWOOD ENTRANCE

PLANNING BOARD APPROVALS

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RAYMOND E. SHAW ELEMENTARY SCHOOL
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PLANNING BOARD SUBMISSION - UPDATE

TITLE:
PLANNING SUBMISSION RENDERINGS

JOB NUMBER: 18-08
DRAWN BY: TB
CHECKED BY: PT
DATE: 08/05/2020
SCALE:

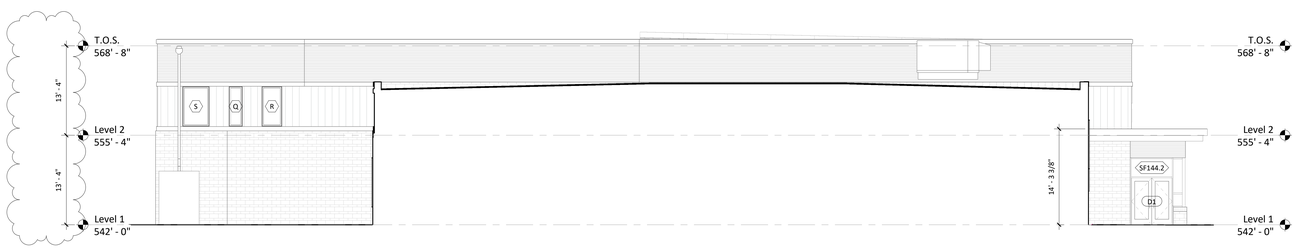
SHEET NO: W0.02

7/31/2020 3:59:55 PM

1 SOUTH ELEVATION
1/16" = 1'-0"

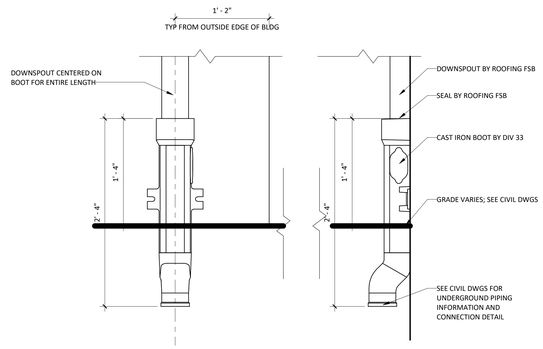
1A ENLARGED SOUTH ELEVATION A
1/8" = 1'-0"

1B ENLARGED SOUTH ELEVATION B
1/8" = 1'-0"



1C ENLARGED SOUTH ELEVATION @ GYM & CAFETERIA
1/8" = 1'-0"

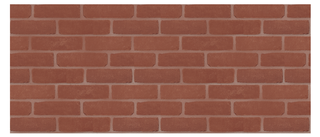
4 ENLARGED EAST ELEVATION
@ STAIR B EXTERIOR DOOR
1/8" = 1'-0"



6 DOWNSPOUT BOOT DETAIL
1 1/2" = 1'-0"

BRICK PATTERN C
3-5/8"x2-1/4"x7-5/8" SOLDIER COURSE
WITH BRICK COLOR 2

BRICK PATTERN B
3-5/8"x7-5/8"x15-5/8" AND
3-5/8"x3-5/8"x15-5/8" STACKED
PATTERN WITH BRICK COLOR 2



BRICK PATTERN A
3-5/8"x2-1/4"x7-5/8" RUNNING
BOND WITH BRICK COLOR 1

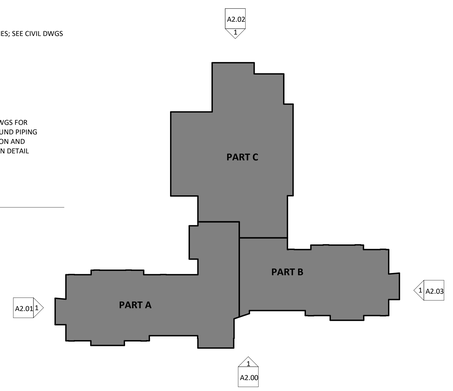
2 MASONRY WALL TYPE DETAIL A2.00
1/2" = 1'-0"

MATERIALS LEGEND

SYMBOL	DESCRIPTION
	ROOF TYPE R1 - PVC MEMBRANE ROOF
	ROOF TYPE R3 - PAVER SYSTEM OVER PVC MEMBRANE
	METAL PANEL WALL, TYPE 1 - CONCEALED FASTENER INTERLOCKING PANEL (A-HORIZONTAL OR B-VERTICAL)
	METAL PANEL WALL, TYPE 2 - CONCEALED FASTENER STRUCTURAL PANEL WITH RIBBED APPEARANCE
	BRICK PATTERN A - RUNNING BOND*
	BRICK PATTERN B - RUNNING BOND WITH ALTERNATING ROWS OF 4" AND 8" ENLARGED BRICK*
	BRICK PATTERN C - SOLDIER COURSE*
XXX	DOOR TAG
XXXX	STOREFRONT/CURTAINWALL TAG
X	WINDOW TAG
CJ	CONTROL JOINT
EJ	EXPANSION JOINT

*FOR BRICK COLORS AND PATTERNS SEE DETAIL 2/A2.00

PLANNING BOARD APPROVALS



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CONSULTANT:

STAMP:

REVISIONS:

No.	Description	Date
1	Revision 1	Date 1

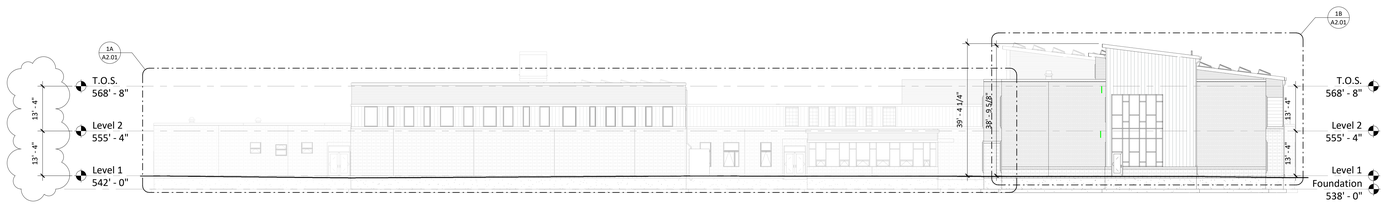
RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST, MILLBURY, MA 01527

PLANNING BOARD SUBMISSION - UPDATE

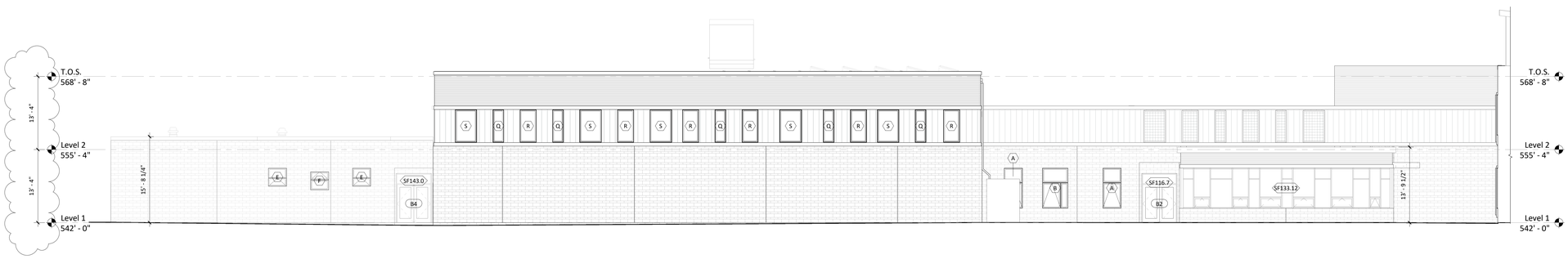
TITLE:
SOUTH
EXTERIOR
ELEVATIONS

JOB NUMBER: 18-08
DRAWN BY: BF
CHECKED BY: PT/LT
DATE: 08/05/2020
SCALE: As indicated
SHEET NO: A2.00

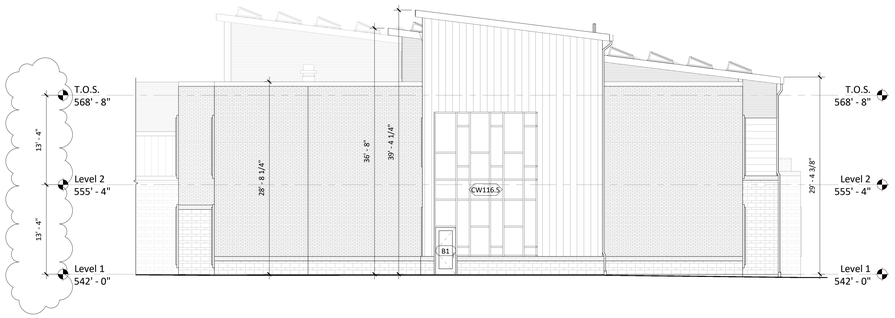
7/9/2020 1:57:14 PM



1 WEST ELEVATION
1/16" = 1'-0"

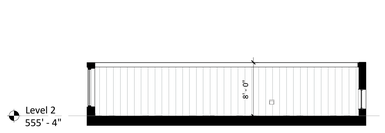


1A ENLARGED WEST ELEVATION A
1/8" = 1'-0"

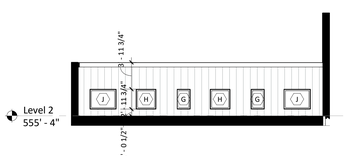


1B ENLARGED WEST ELEVATION B
1/8" = 1'-0"

7 ENLARGED WEST ELEVATION @ STAIR A EXTERIOR DOOR
1/8" = 1'-0"

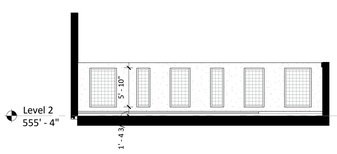


3 ROOFTOP CLASSROOM NORTH
1/8" = 1'-0"



4 ROOFTOP CLASSROOM EAST
1/8" = 1'-0"

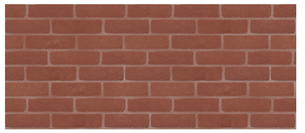
5 ROOFTOP CLASSROOM SOUTH
1/8" = 1'-0"



6 ROOFTOP CLASSROM WEST
1/8" = 1'-0"

BRICK PATTERN C
SOLDIER COURSE WITH BRICK COLOR 2

BRICK PATTERN B
BIG BRICK MONARCH AND DOUBLE MONARCH STACKED PATTERN WITH BRICK COLOR 2



BRICK PATTERN A
RUNNING BOND
BRICK COLOR 1

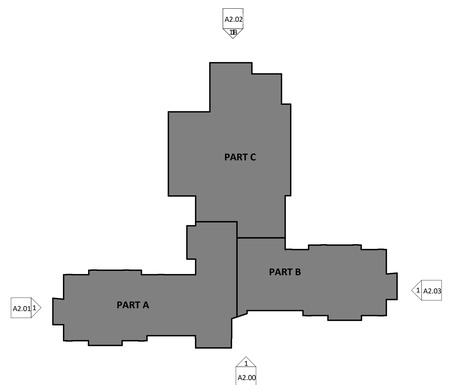
2 MASONRY WALL TYPE DETAIL A2.01
1/2" = 1'-0"

MATERIALS LEGEND

SYMBOL	DESCRIPTION
	ROOF TYPE R1 - PVC MEMBRANE ROOF
	ROOF TYPE R3 - PAVER SYSTEM OVER PVC MEMBRANE
	METAL PANEL WALL, TYPE 1 - CONCEALED FASTENER INTERLOCKING PANEL [A-HORIZONTAL OR B-VERTICAL]
	METAL PANEL WALL, TYPE 2 - CONCEALED FASTENER STRUCTURAL PANEL WITH RIBBED APPEARANCE
	BRICK PATTERN A - RUNNING BOND*
	BRICK PATTERN B - RUNNING BOND WITH ALTERNATING ROWS OF 4" AND 8" ENLARGED BRICK*
	BRICK PATTERN C - SOLDIER COURSE*
XXX	DOOR TAG
XXXX	STOREFRONT/CURTAINWALL TAG
X	WINDOW TAG
CJ	CONTROL JOINT
EJ	EXPANSION JOINT

*FOR BRICK COLORS AND PATTERNS SEE DETAIL 2/A2.00

PLANNING BOARD APPROVALS



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No.	Description	Date
1	Revision 1	Date 1

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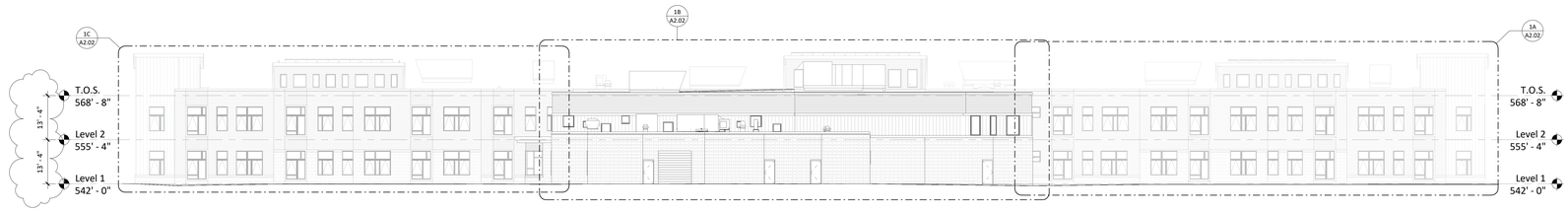
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
WEST EXTERIOR ELEVATIONS

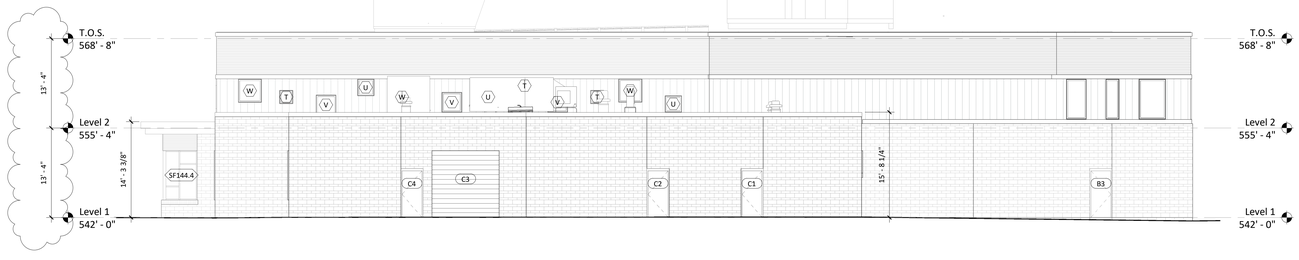
JOB NUMBER: 18-08
DRAWN BY: BF
CHECKED BY: PT/LT
DATE: 08/05/2020
SCALE: As indicated
SHEET NO: A2.01

7/9/2020 1:58:31 PM



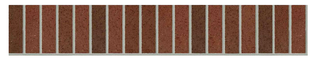
1 NORTH ELEVATION
1/16" = 1'-0"

1A ENLARGED NORTH ELEVATION A
1/8" = 1'-0"



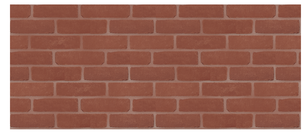
1B ENLARGED NORTH ELEVATION B
1/8" = 1'-0"

1C ENLARGED NORTH ELEVATION C
1/8" = 1'-0"



BRICK PATTERN C
SOLDIER COURSE WITH BRICK COLOR 2

BRICK PATTERN B
BIG BRICK MONARCH AND DOUBLE
MONARCH STACKED PATTERN
WITH BRICK COLOR 2



BRICK PATTERN A
RUNNING BOND
BRICK COLOR 1

2 MASONRY WALL TYPE DETAIL A2.02
1/2" = 1'-0"

MATERIALS LEGEND

SYMBOL	DESCRIPTION
	ROOF TYPE R1 - PVC MEMBRANE ROOF
	ROOF TYPE R3 - PAVER SYSTEM OVER PVC MEMBRANE
	METAL PANEL WALL, TYPE 1 - CONCEALED FASTENER INTERLOCKING PANEL (A-HORIZONTAL OR B-VERTICAL)
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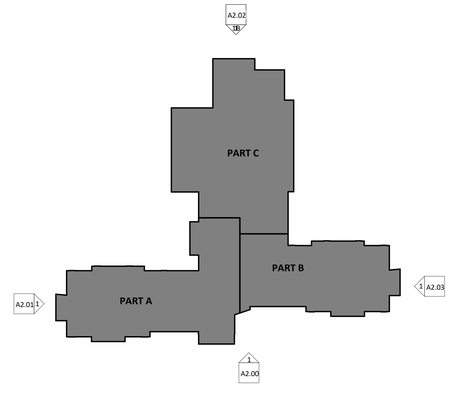
	BRICK PATTERN C - SOLDIER COURSE*
XXX	DOOR TAG
XXXX	STOREFRONT/CURTAINWALL TAG
X	WINDOW TAG
CJ	CONTROL JOINT
EJ	EXPANSION JOINT

*FOR BRICK COLORS AND PATTERNS SEE DETAIL 2/A2.00

PLANNING BOARD APPROVALS



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No.	Description	Date
1	Revision 1	Date 1

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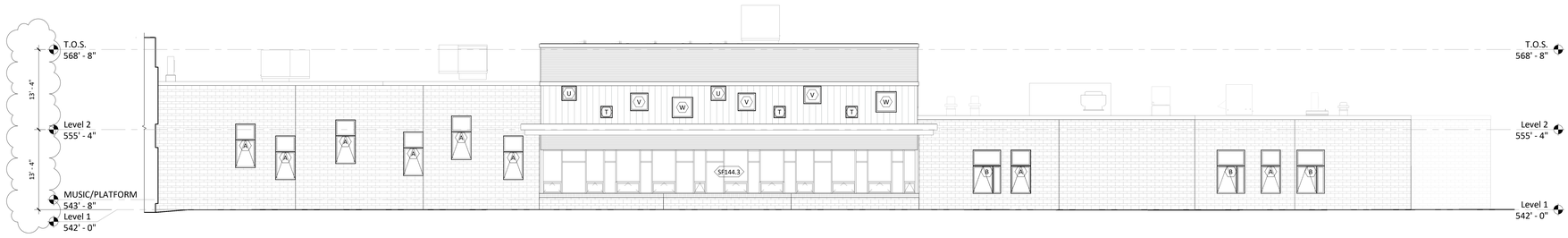
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
NORTH EXTERIOR ELEVATIONS

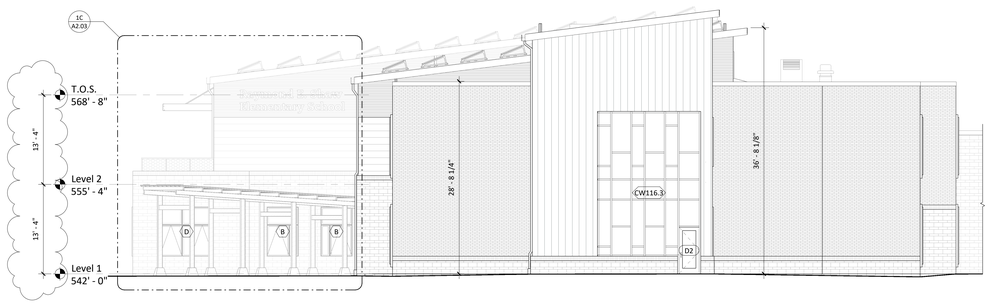
JOB NUMBER: 18-08
DRAWN BY: BF
CHECKED BY: PT/LT
DATE: 08/05/2020
SCALE: As indicated
SHEET NO: A2.02

7/30/2020 10:23 PM

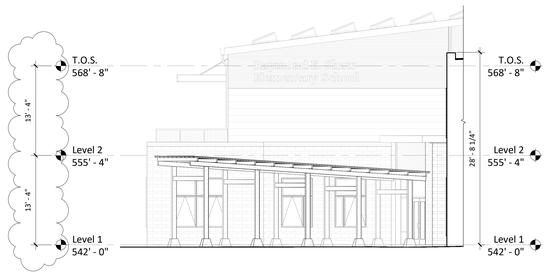
1 EAST ELEVATION
1/16" = 1'-0"



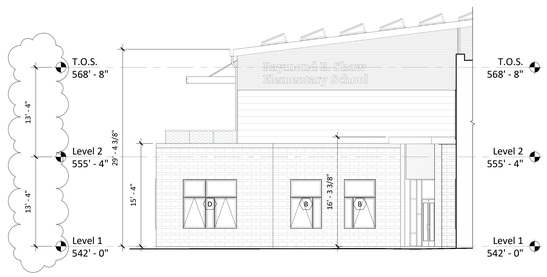
1A ENLARGED EAST ELEVATION A
1/8" = 1'-0"



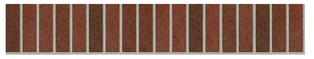
1B ENLARGED EAST ELEVATION B
1/8" = 1'-0"



1C ENLARGED EAST ELEVATION C
1/8" = 1'-0"

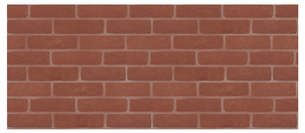


1D ENLARGED EAST ELEVATION D (CANOPY HIDDEN)
1/8" = 1'-0"



BRICK PATTERN C
SOLDIER COURSE WITH BRICK COLOR 2

BRICK PATTERN B
BIG BRICK MONARCH AND DOUBLE
MONARCH STACKED PATTERN
WITH BRICK COLOR 2



BRICK PATTERN A
RUNNING BOND
BRICK COLOR 1

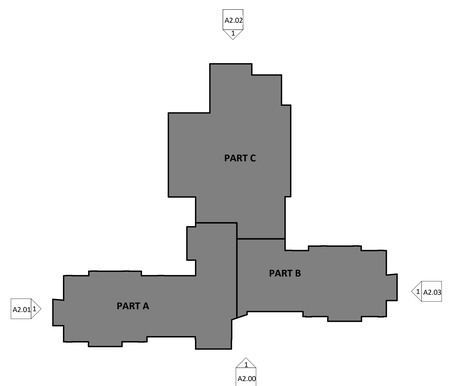
2 MASONRY WALL TYPE DETAIL A2.03
1/2" = 1'-0"

MATERIALS LEGEND

SYMBOL	DESCRIPTION
	ROOF TYPE R1 - PVC MEMBRANE ROOF
	ROOF TYPE R3 - PAVER SYSTEM OVER PVC MEMBRANE
	METAL PANEL WALL, TYPE 1 - CONCEALED FASTENER INTERLOCKING PANEL (A-HORIZONTAL OR B-VERTICAL)
	METAL PANEL WALL, TYPE 2 - CONCEALED FASTENER STRUCTURAL PANEL WITH RIBBED APPEARANCE
	BRICK PATTERN A - RUNNING BOND*
	BRICK PATTERN B - RUNNING BOND WITH ALTERNATING ROWS OF 4" AND 8" ENLARGED BRICK*
	BRICK PATTERN C - SOLDIER COURSE*
XXX	DOOR TAG
XXXX	STOREFRONT/CURTAINWALL TAG
X	WINDOW TAG
CJ	CONTROL JOINT
EJ	EXPANSION JOINT

*FOR BRICK COLORS AND PATTERNS SEE DETAIL 2/A2.00

PLANNING BOARD APPROVALS



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CONSULTANT:

STAMP:

REVISIONS:

No.	Description	Date
1	Revision 1	Date 1

RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST, MILLBURY, MA 01527

PLANNING BOARD SUBMISSION - UPDATE

TITLE:
EAST
EXTERIOR
ELEVATIONS

JOB NUMBER: 18-08

DRAWN BY: BF

CHECKED BY: PT/LT

DATE: 08/05/2020

SCALE: As indicated

SHEET NO: A2.03

7/10/2020 2:03:47 PM

PROPOSED LEGEND

- LIMIT OF WORK
- EXISTING UTILITY TO BE ABANDONED, REMOVED AND DISPOSED IF IN CONFLICT WITH NEW SITE IMPROVEMENTS, OR AS INDICATED ON DRAWINGS
- EROSION CONTROL BARRIER
- CONSTRUCTION FENCE
- W — DOMESTIC WATER PIPE
- FP — FIRE PROTECTION PIPE
- S — SANITARY SEWER PIPE
- D — STORM DRAIN PIPE
- G — GAS PIPE
- E — ELECTRIC DUCTBANK
- T/C — TELECOM DUCTBANK
- CW — CHILLED WATER PIPE
- STM — STEAM PIPE
- CR — CONDENSATE RETURN PIPE
- HW — HOT WATER PIPE/RETURN
- HHW — HEATING HOT WATER
- RW — REUSE WATER PIPE
- GW — GREY WATER PIPE
- FUTURE UTILITY, SHOWN FOR INFORMATION ONLY
- INLET PROTECTION
- ELEVATION CONTOURS
- MATCH LINE
- CENTERLINE
- CO — CLEANOUT
- AREA DRAIN
- ACCESS BASIN
- DRAIN MANHOLE
- WATER QUALITY STRUCTURE
- CATCH BASIN
- DOUBLE CATCH BASIN
- WATER QUALITY INLET
- SEWER MANHOLE
- STMH — STEAM MANHOLE
- TMH — TELECOM MANHOLE
- EMH — ELECTRIC MANHOLE
- CWV — CHILLED WATER VALVE
- WV — WATER VALVE
- HYD — FIRE HYDRANT

ABBREVIATIONS

AB	ACCESS BASIN
AD	AREA DRAIN
BC	BOTTOM OF CURB ELEVATION
CB	CATCH BASIN
CCB	CAPE COD BERM
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTER LINE
CO	CLEANOUT
COP	CENTER OF PIPE
CP	CARRIER PIPE
CPP	CORRUGATED POLYETHYLENE PIPE
DCB	DOUBLE CATCH BASIN
DI	DUCTILE IRON PIPE CEMENT LINED
DMH	DRAIN MANHOLE
EHH	ELECTRIC HANDHOLE
EJ	EXPANSION JOINT
EMH	ELECTRIC MANHOLE
ESHGW	ESTIMATED SEASONAL HIGH GROUNDWATER
FD	FOUNDATION DRAIN
FFE	FINISHED FLOOR ELEVATION
HP	HIGH POINT
HYD	FIRE HYDRANT
INV	INVERT ELEVATION
LF	LINEAR FEET
LOW	LIMIT OF WORK
LP	LOW POINT
LW	LAB WASTE
M&P	MAINTAIN AND PROTECT
NIC	NOT IN CONTRACT
OC	ON CENTER
OCS	OUTLET CONTROL STRUCTURE
PD	PERIMETER DRAIN
PERF	PERFORATED
PVC	POLYVINYL CHLORIDE PIPE
R&D	REMOVE AND DISPOSE
R&S	REMOVE AND STOCKPILE
RD	ROOF DRAIN
RIM	RIM ELEVATION
SMH	SEWER MANHOLE
SS	SEWER SERVICE
TC	TOP OF CURB ELEVATION
THH	TELECOM HANDHOLE
TMH	TELECOM MANHOLE
TOP	TOP OF PIPE
TOD	TOP OF DUCT BANK
TYP	TYPICAL
UD	UNDERDRAIN
USD	UNDERSLAB DRAIN
VGC	VERTICAL GRANITE CURB
WQI	WATER QUALITY INLET
WQS	WATER QUALITY STRUCTURE
WV	WATER VALVE

DEMOLITION NOTES:

1. SITE PREPARATION AND DEMOLITION SHALL INCLUDE THOSE AREAS WITHIN THE LIMIT OF WORK LINE AS SHOWN ON THE CONTRACT DOCUMENTS.
2. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
3. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING DEMOLITION.
4. THE CONTRACTOR SHALL COORDINATE SITE DEMOLITION EFFORTS WITH ALL TRADES THAT MAY BE AFFECTED BY THE WORK.
5. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS REQUIRED TO FACILITATE CONSTRUCTION, AND LEGALLY DISPOSED OF OFFSITE BY CONTRACTOR.
6. UTILITY PIPES DESIGNATED TO BE ABANDONED IN PLACE SHALL BE PLUGGED AT THEIR ENDS WITH WATERTIGHT BRICK MASONRY OR CEMENT MORTAR WITH A MINIMUM THICKNESS OF 8 INCHES.
7. UTILITY PIPES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF THE ENTIRE LENGTH OF PIPE AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN THE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
8. UTILITY STRUCTURES DESIGNATED TO BE ABANDONED IN PLACE SHALL HAVE THEIR CAST IRON CASTINGS REMOVED AND DISPOSED, INLET AND OUTLET PIPES PLUGGED, THE BOTTOM OF THE STRUCTURES SHALL BE BROKEN, THE VOID OF THE STRUCTURES SHALL BE BACKFILLED AND COMPACTED TO 95% WITH ORDINARY BORROW OR FLOWABLE FILL, AND THE TOP OF THE STRUCTURE SHALL BE REMOVED SO THAT IT IS AT LEAST 36 INCHES BELOW FINISH GRADE.
9. UTILITY STRUCTURES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF CAST IRON CASTINGS, PLUGGING OF INLET AND OUTLET PIPES, REMOVAL OF THE STRUCTURE, AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN HE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
10. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFFSITE.
11. AT ALL LOCATIONS WHERE EXISTING CURBING, CONCRETE PAVEMENT OR BITUMINOUS CONCRETE ROADWAY ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
12. EXTEND DESIGNATED LIMIT OF WORK AS NECESSARY TO ACCOMPLISH ROUGH GRADING, EROSION CONTROL, TREE PROTECTION, AND SITE WORK AS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS.
13. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL RUBBISH AND DEBRIS FOUND THEREON. STORAGE OF SUCH MATERIALS ON THE PROJECT SITE WILL NOT BE PERMITTED. THE CONTRACTOR SHALL LEAVE THE SITE IN SAFE, CLEAN, AND LEVEL CONDITION UPON COMPLETION OF THE SITE DEMOLITION WORK.
14. REMOVE AND STOCKPILE ALL EXISTING SITE LIGHTS, BENCHES, TRASH RECEPTACLES, TRAFFIC SIGNS, GRANITE CURB, AND OTHER SITE IMPROVEMENTS WITHIN LIMIT OF WORK LINE UNLESS OTHERWISE NOTED.
15. ALL EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE TIME OF CONSTRUCTION, AS SPECIFIED AND DIRECTED BY THE LANDSCAPE ARCHITECT.
16. BEFORE ANY TREES OR SHRUBS ARE REMOVED, THE CONTRACTOR SHALL ARRANGE A CONFERENCE ON THE SITE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO IDENTIFY TREES AND SHRUBS THAT ARE TO BE REMOVED, AS WELL AS THOSE WHICH ARE TO BE PROTECTED. DO NOT COMMENCE CLEARING OPERATIONS WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.
17. THE CONTRACTOR SHALL REMOVE FROM THE AREA OF CONSTRUCTION PAVEMENT, CONCRETE, CURBING, POLES AND FOUNDATIONS, ISLANDS, TREE BERMS AND OTHER FEATURES WITHIN THE LIMITS OF CONSTRUCTION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION WHETHER SPECIFIED ON THE DRAWINGS OR NOT.

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" PREPARED BY DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF RESOURCE PROTECTION, AND THE CURRENT NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
2. MEANS OF EROSION AND SEDIMENT PROTECTION AS NOTED ON THE DRAWINGS INDICATE MINIMUM RECOMMENDED PROVISIONS. THE CONTRACTOR IS RESPONSIBLE FOR FINAL SELECTION AND PLACEMENT OF EROSION AND SEDIMENTATION CONTROLS BASED ON ACTUAL SITE CONDITIONS AND CONSTRUCTION CONDITIONS. ADDITIONAL MEANS OF PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR CONTINUED OR UNFORESEEN EROSION PROBLEMS, OR AS DIRECTED BY CONTROLLING MUNICIPAL AUTHORITIES, AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT AS INDICATED IN THE PLAN PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION OPERATIONS.
4. SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF AND DURING ALL PHASES OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO AND IMMEDIATELY AFTER ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
5. AFTER ANY SIGNIFICANT RAINFALL (GREATER THAN 0.25 INCHES OF RAINFALL WITHIN 24 HOURS), SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED FOR INTEGRITY. ANY DAMAGE SHALL BE CORRECTED IMMEDIATELY.
6. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES SHALL BE PROVIDED TO ENSURE THAT THE INTENDED PURPOSE IS ACCOMPLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT LEAVING THE LIMIT OF WORK. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SEDIMENT FROM ENTERING ANY STORM DRAINAGE SYSTEM AND FROM BEING CONVEYED TO ANY WETLAND RESOURCE AREA, PUBLIC WAYS, ABUTTING PROPERTY, OR OUTSIDE OF THE PROJECT LIMITS.
8. THE CONTRACTOR SHALL PROTECT ALL DRAINAGE SWALES AND GROUND SURFACES WITHIN THE LIMIT OF WORK FROM EROSIVE CONDITIONS. STRAW BALE, CRUSHED STONE OR EQUIVALENT CHECK DAMS ARE TO BE PROVIDED AT A MAXIMUM OF TWO HUNDRED (200) FOOT SPACING, OR LESS AS SITE-SPECIFIC CONDITIONS WARRANT, WITHIN ALL DRAINAGE SWALES AND DITCHES AND AT UPSTREAM SIDES OF ALL DRAINAGE INLETS.
9. ALL STOCK PILES SHALL BE PROTECTED AND LOCATED A MINIMUM OF 100' FROM EXISTING WETLAND RESOURCE AREAS & WITHIN THE LIMIT OF WORK.
10. ANY SEDIMENT TRACKED ONTO PAVED AREAS SHALL BE SWEPT AT THE END OF EACH WORKING DAY.
11. ALL SEDIMENT RETAINED BY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LEGALLY DISPOSED OF OFFSITE.
12. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS, AND ANY DENUDED SURFACE THAT WILL BE EXPOSED FOR A PERIOD OF 14 CALENDAR DAYS OR MORE SHALL BE CONSIDERED CRITICAL VEGETATION AREAS. THESE AREAS SHALL BE STABILIZED/PROTECTED WITH APPROPRIATE EROSION CONTROL MATTING OR OTHER EROSION CONTROL METHODS.
13. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS DIRECTED BY THE PERMITTING AUTHORITY OR OWNER.
14. THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING, OR OTHER APPROVED STABILIZATION MEASURES TO PROTECT EXPOSED AREAS DURING PROLONGED CONSTRUCTION OR OTHER LAND DISTURBANCE. STOCKPILES THAT WILL BE EXPOSED FOR LONGER THAN 14 DAYS SHALL BE STABILIZED.
15. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION AND SEDIMENT CONTROLS AT THE COMPLETION OF SITE CONSTRUCTION, BUT ONLY WHEN DIRECTED BY THE TOWN OF MILLBURY CONSERVATION AGENT. STABILIZE OR SEED BARE AREAS LEFT AFTER EROSION CONTROL REMOVAL.

GENERAL NOTES:

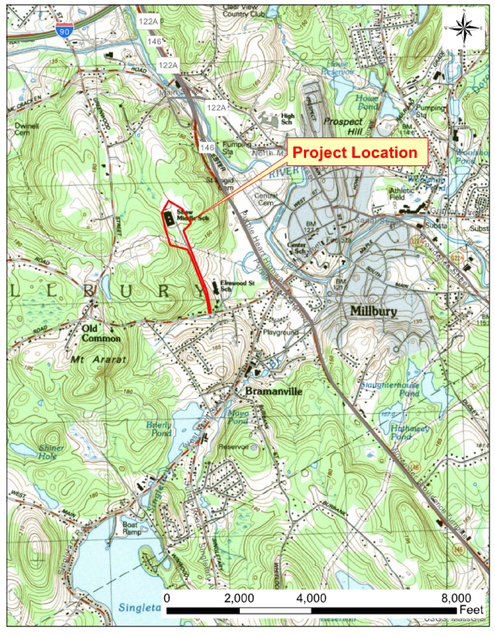
1. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE OBTAINED FROM A PLAN ENTITLED "LIMITED TOPOGRAPHIC PLAN", PREPARED BY NITSCH ENGINEERING., DATED 11/19/2018 AND UPDATED FEBRUARY 2020..
2. FLOODPLAIN INFORMATION WAS OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) NO. 25027C0809E EFFECTIVE 7/4/2011. THE SITE IS IN ZONE X, AN AREA OF MINIMAL FLOOD HAZARD.
3. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82, SECTION 40, AS AMENDED, WHICH STATES THAT NO ONE MAY EXCAVATE IN THE COMMONWEALTH OF MASSACHUSETTS EXCEPT IN AN EMERGENCY WITHOUT 72 HOURS NOTICE, EXCLUSIVE OF SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, TO NATURAL GAS PIPELINE COMPANIES, AND MUNICIPAL UTILITY DEPARTMENTS THAT SUPPLY GAS, ELECTRICITY, TELEPHONE, OR CABLE TELEVISION SERVICE IN OR TO THE CITY OR TOWN WHERE THE EXCAVATION IS TO BE MADE. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE.
4. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82A, ALSO REFERRED TO AS JACKIE'S LAW, AS DETAILED IN SECTION 520 CMR 14.00 OF THE CODE OF MASSACHUSETTS REGULATIONS.
5. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS.
6. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRESENCE AND LOCATIONS OF ALL UTILITIES WITHIN THE LIMIT OF WORK MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CONTACTING THE CONTROLLING AUTHORITIES AND/OR UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND NITSCH ENGINEERING. ANY DAMAGE RESULTING FROM THE FAILURE OF THE CONTRACTOR TO MAKE THESE DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.
7. THE CONTRACTOR SHALL, THROUGHOUT CONSTRUCTION, TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND SITE DETAILS OUTSIDE OF THE LIMIT OF WORK AS DEFINED ON THE DRAWINGS AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
9. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND CONSTRUCTION DOCUMENTS TO DEVELOP A THOROUGH UNDERSTANDING OF THE PROJECT, INCLUDING ANY SPECIAL CONDITIONS AND CONSTRAINTS.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PROJECT SITE AND TO VERIFY ALL CONDITIONS IN THE FIELD AND REPORT DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATION IMMEDIATELY.
11. THE CONTRACTOR SHALL CONDUCT ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS.
12. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ESTABLISHMENT AND USE OF ALL VERTICAL AND HORIZONTAL CONSTRUCTION CONTROLS.
13. ELEVATIONS REFER TO NAVD88.
14. THE CONTRACTOR SHALL COMPLY WITH THE ORDER OF CONDITIONS DATED XXXX XX, XXXX AND ISSUED BY THE XXXX CONSERVATION COMMISSION (DEP #XXX-XXX).
15. FOR SOIL INFORMATION REFER TO GEOTECHNICAL REPORT.

EARTH MOVING AND GRADING NOTES:

1. ALL TOPSOIL ENCOUNTERED WITHIN THE WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED BY THE OWNER. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.
2. GRADES WITHIN HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
3. CROSS SLOPES OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 1.5%
4. RUNNING SLOPE OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 4.5%, UNLESS OTHERWISE NOTED.
5. ALL PEDESTRIAN PAVING, RAMPS, AND HANDICAP ACCESSIBLE PARKING SHALL BE COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND REQUIREMENTS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB). IF THESE REQUIREMENTS CANNOT BE MET WITH THE GRADES INDICATED ON THE DRAWINGS, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY FOR DIRECTION
6. THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITY DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.
7. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1% UNLESS OTHERWISE NOTED.
8. PROVIDE POSITIVE DRAINAGE AWAY FROM FACE OF BUILDINGS AT ALL LOCATIONS.
9. PITCH EVENLY BETWEEN CONTOUR LINES AND BETWEEN SPOT GRADES. SPOT GRADE ELEVATIONS TAKE PRECEDENCE OVER CONTOUR LINES.
10. ALL PROPOSED TOP OF CURB ELEVATIONS ARE SIX INCHES (6") ABOVE BOTTOM OF CURB ELEVATIONS UNLESS OTHERWISE NOTED. ALL PROPOSED TOP OF CAPE COD BERM ELEVATIONS ARE FOUR INCHES (4") ABOVE BOTTOM OF CURB ELEVATION UNLESS OTHERWISE NOTED.
11. THE CONTRACTOR SHALL BLEND NEW GRADING SMOOTHLY INTO EXISTING GRADING AT LIMITS OF GRADING. SURFACE PUDDLING OR PONDING AT TRANSITIONS BETWEEN NEW AND EXISTING PAVEMENTS WILL NOT BE ACCEPTED.
12. WHERE NEW PAVING MEETS EXISTING PAVING, MEET LINE AND GRADE OF EXISTING PAVING WITH SMOOTH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
13. THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
14. PITCH TOPS OF ALL WALLS AT ONE-EIGHTH INCH (1/8") PER FOOT FROM BACK OF WALL TO FACE OF WALL.
15. SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. REFER TO EARTHWORK SPECIFICATIONS.
16. ANY AREAS OUTSIDE OF THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED BY THE CONTRACTOR TO THE PRE-CONSTRUCTION CONDITION/GRADE AT NO COST TO THE OWNER.
17. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO COMMONWEALTH/OWNER.
18. GRADING FOR ATHLETIC FIELDS SHOWN FOR INFORMATION ONLY – SEE LANDSCAPE ARCHITECT'S GRADING PLAN

UTILITY NOTES:

1. ALL UTILITY CONNECTIONS ARE SUBJECT TO THE APPROVAL OF, AND GRANTING OF PERMITS BY, THE LOCAL MUNICIPALITY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS RELATED TO UTILITY WORK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ALL PERMISSIONS FOR, AND FOR CONDUCTING ALL PREPARATIONS RELATED TO, WORK AFFECTING ANY UTILITIES WITHIN THE JURISDICTION OF ANY NON-MUNICIPAL UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO ELECTRIC, TELEPHONE, AND/OR GAS. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES, DEPARTMENTS, AND UTILITY COMPANIES, IN WRITING, AT LEAST 7 DAYS (OR PER UTILITY COMPANY REQUIREMENT) AND NOT MORE THAN 30 DAYS PRIOR TO ANY CONSTRUCTION.
3. THE CONTRACTOR SHALL MAINTAIN UTILITIES SERVICING BUILDINGS AND FACILITIES WITHIN OR OUTSIDE THE PROJECT LIMIT UNLESS THE INTERRUPTION OF SERVICE IS COORDINATED WITH THE OWNER.
4. ALL WATER, SEWER, AND DRAIN WORK SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS AND STANDARD SPECIFICATIONS OF THE LOCAL MUNICIPALITY.
5. GAS, TELECOMMUNICATIONS AND ELECTRIC SERVICES ARE TO BE DESIGNED BY EACH UTILITY COMPANY IN COORDINATION WITH THE MECHANICAL, ELECTRIC, AND PLUMBING CONSULTANTS.
6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES OF NEW UTILITIES WITH GAS, TELECOMMUNICATION AND ELECTRICAL SERVICES.
7. INSTALL WATER LINES WITH A MINIMUM OF FIVE FEET OF COVER AND A MAXIMUM OF SEVEN FEET COVER FROM THE FINAL DESIGN GRADES.
8. MAINTAIN 10 FEET HORIZONTAL SEPARATION AND 18 INCHES VERTICAL SEPARATION (WATER OVER SEWER) BETWEEN SEWER AND WATER LINES. WHEREVER THERE IS LESS THAN 10 FEET OF HORIZONTAL SEPARATION AND 18 INCHES OF VERTICAL SEPARATION BETWEEN A PROPOSED OR EXISTING SEWER LINE TO REMAIN AND A PROPOSED OR EXISTING WATER LINE TO REMAIN BOTH WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT LINED DUCTILE IRON PIPE FOR A DISTANCE OF 10-FEET ON EITHER SIDE OF THE CROSSING. ONE (1) FULL LENGTH OF WATER PIPE SHALL BE CENTERED OVER THE SEWER AT THE CROSSING.
9. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED AND/OR REMOVED & DISPOSED.
10. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR TRENCHING, BACKFILLING, AND SURFACE RESTORATION FOR GAS UTILITY SYSTEMS.
11. ALL ONSITE UTILITIES SHALL BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
12. ALL EXISTING AND PROPOSED MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, CASTINGS, ETC. SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL GRADING AND PAVING CONSTRUCTION.
13. ALL GRATES IN WALKWAYS SHALL BE ADA COMPLIANT.



LOCUS PLAN

NOT TO SCALE

PLANNING BOARD APPROVALS

Turowski2 Architecture
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Worcester, MA 01608
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F: (617) 338-6472

STAMP:

COMMONWEALTH OF MASSACHUSETTS
SANDRA A. BROCK
CIVIL
No. 39417
REGISTERED PROFESSIONAL ENGINEER
7/31/2020

REVISIONS:

No.	Description	Date

RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
MILLBURY, MA 01527

PLANNING BOARD SUBMISSION - UPDATE

TITLE: CIVIL NOTES

JOB NUMBER: 18-08
DRAWN BY: JCZ
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: N/A
SHEET NO: C1.00

NITSCH PROJECT #12936

417 GREENWOOD ST
N/F
LAURA E GOSSELIN
BK 28072 PG 309
MAP PARCEL ID 43_17 & 43_1920_2

70 WORC-PROV PIKE
N/F
ROUTE 146 MILLBURY LLC
BK 24293 PG 105
MAP PARCEL ID 44_31

ASSESSOR'S INFORMATION
151.2 ACRES
MAP 61 PARCEL A
BOOK 4654 PG 143

PROPERTY LINE BY GIS

SHOPPING CENTER BUILDING

SHOPPING CENTER BUILDING (APPROXIMATE LOCATION)

PROPOSED SCHOOL BUILDING
90,265 TOTAL SQ. FT.

FFE=542

ATHLETIC FIELDS

ATHLETIC FIELDS

SNOW STORAGE

SCALE:
1" = 40'
40 20 0 40 80

ZONING TABLE – SETBACKS

BUILDING SETBACKS FOR R-2 ZONING	FRONT	SIDE (WEST)	SIDE (EAST)	REAR
ZONING REQUIREMENTS	25'	10'	10'	10'
PROPOSED SCHOOL BUILDING	3,000+'	725±'	251±'	147±'
	ZONING* REQUIREMENTS		EXISTING SITE	
MINIMUM AREA	40,000		152 ACRES	
FRONTAGE	100'		OVER 500'	
BUILDING HEIGHT	30'		40'**	

* PARCEL IS LOCATED IN R-2 ZONE
** SEE SITE PLAN APPLICATION FOR ADDITION INFORMATION

PARKING TABLE

DESCRIPTION OF LOT	TOTAL SPACES	9'X18' SPACES	HC SPACES	CHARGING SPACES	ELEC VEHICLES
MAIN PARKING LOT 9'X18' PERPENDICULAR	105	101	4	7	7
VISITOR PARKING LOT	9	7	2	0	0
FIELD PARKING LOT	4	4	1	0	0
MAIN DRIVE PARALLEL SPACES	11	11	0	0	0
MAIN PARKING LOT PARALLEL SPACES	13	13	0	0	0
TOTALS	142	135	7	7	7

PLANNING BOARD APPROVALS

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7/31/2020

REVISIONS:

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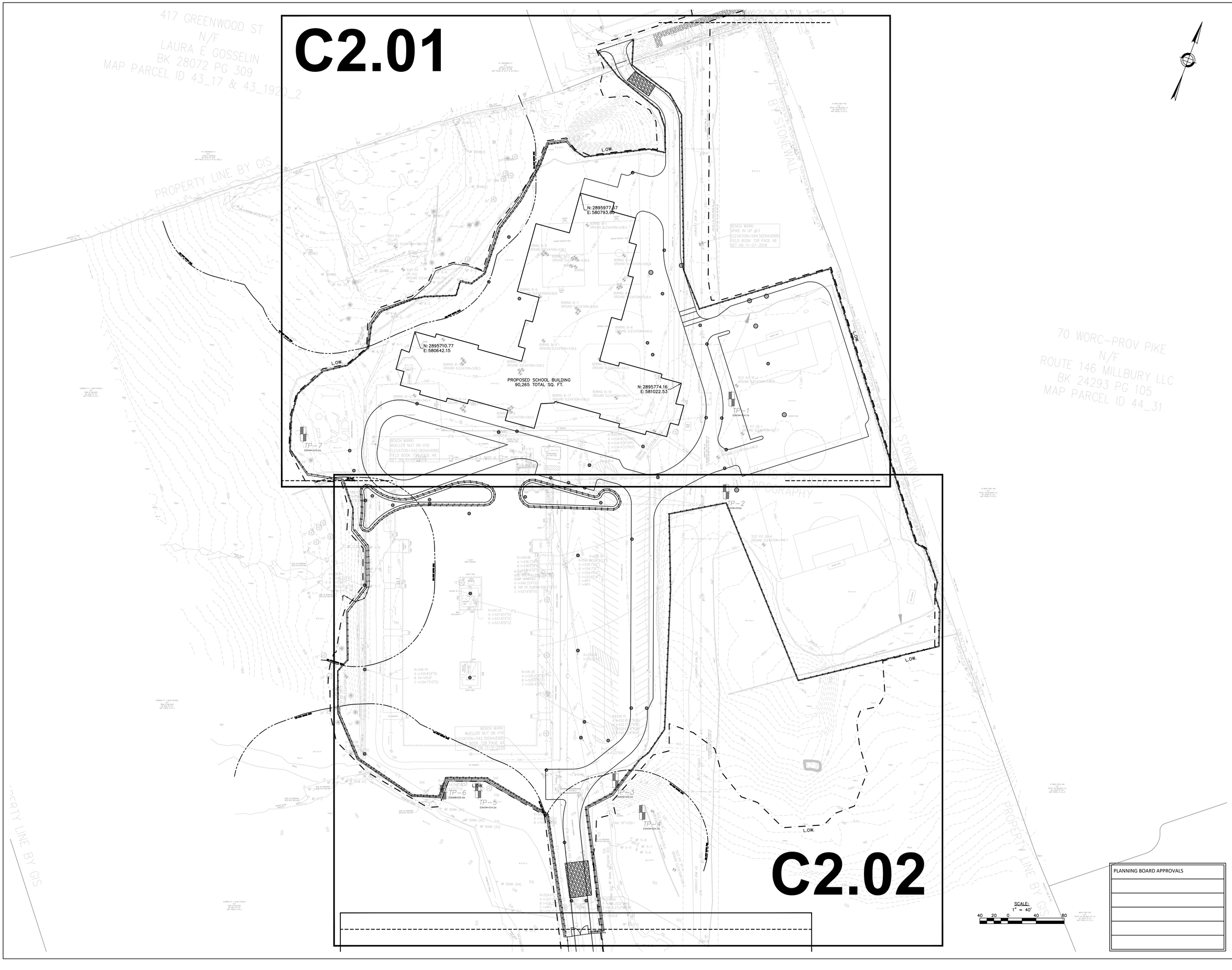
RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
MILLBURY, MA 01527
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
ZONING INFORMATION PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=40'
SHEET NO: C1.01

NITSCH PROJECT #12936

C2.01



C2.02

PLANNING BOARD APPROVALS

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7/31/2020

REVISIONS:

No.	Description	Date

RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
MILLBURY, MA 01527

PLANNING BOARD SUBMISSION - UPDATE

TITLE:
SITE SEDIMENTATION AND EROSION CONTROL KEY PLAN

JOB NUMBER: 18-08

DRAWN BY: JCZ, RL

CHECKED BY: SAB

DATE: 8/5/2020

SCALE: 1"=40'

SHEET NO: C2.00

NITSCH PROJECT #12936

PLANNING BOARD APPROVALS

PHASE 1 & 2 STABILIZED CONSTRUCTION ENTRANCE – FINAL LOCATION TO BE DETERMINED BY CONTRACTOR

100-FOOT BUFFER ZONE

L.O.W.

N: 2895977.67
E: 580793.80

DOUBLE PERIMETER EROSION CONTROL BARRIER AT BORDERING VEGETATED WETLANDS (TYP)

CONSTRUCTION FENCE (TYP) FINAL LOCATION TO BE DETERMINED BY CONTRACTOR

PERIMETER EROSION CONTROL BARRIER (TYP) FINAL LOCATION TO BE DETERMINED BY CONTRACTOR

N: 2895710.77
E: 580642.15

PROPOSED SCHOOL BUILDING
90,265 TOTAL SQ. FT.

INLET PROTECTION ON ALL EX ONSITE INLET STRUCTURES. MAINTAIN INLET PROTECTION UNTIL STRUCTURES ARE DEMOLISHED OR SITE IS STABILIZED (TYP)

N: 2895774.16
E: 581022.53

TP-7
ESHGW=543.2±

TP-1
ESHGW=544.7±

INLET PROTECTION ON ALL PROPOSED DRAINAGE INLET STRUCTURES. REFER TO THE SITE UTILITY PLAN (TYP)

PROPOSED PAVEMENT LIMITS SHOWN FOR COORDINATION SEE ROADWAY LAYOUT PLAN (TYP)

BENCH MARK:
SPIKE IN UP, #13
ELEVATION=544.56(NAVD88)
FIELD BOOK 728 PAGE 48
SET ON 11-07-2018

BENCH MARK:
MUELLER NUT ON HYD
ELEVATION=542.56(NAVD88)
FIELD BOOK 728 PAGE 48
SET ON 11-07-2018

417 GREENWOOD ST
N/F
LAURA E. GOSSELIN
BK 28072 PG 309
MAP PARCEL ID 43_17 & 43_1920_2

70 WORC-PROV PIKE
N/F
ROUTE 146 MILLBURY LLC
BK 24293 PG 105
MAP PARCEL ID 44_31

SCALE:
1" = 20'
20 10 0 20 40

NOTES:
1. REFER TO C1.00 FOR EROSION AND SEDIMENTATION CONTROL NOTES

MATCHLINE C2.01
MATCHLINE C2.02

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RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
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PLANNING BOARD SUBMISSION - UPDATE

TITLE:
SITE SEDIMENTATION AND EROSION CONTROL PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C2.01

NITSCH PROJECT #12936

MATCHLINE C2.01
MATCHLINE C2.02

DOUBLE EROSION CONTROL BARRIER AT PROPOSED BIORETENTION BASINS AND GRAVEL WETLANDS. REFER TO THE SITE UTILITY PLANS.

INLET PROTECTION ON ALL EX ONSITE INLET STRUCTURES. MAINTAIN INLET PROTECTION UNTIL STRUCTURES ARE DEMOLISHED OR SITE IS STABILIZED (TYP)

PROPOSED PAVEMENT LIMITS SHOWN FOR COORDINATION SEE ROADWAY LAYOUT PLAN (TYP)

CONSTRUCTION FENCE (TYP) FINAL LOCATION TO BE DETERMINED BY CONTRACTOR

PERIMETER EROSION CONTROL BARRIER (TYP) FINAL LOCATION TO BE DETERMINED BY CONTRACTOR

DOUBLE PERIMETER EROSION CONTROL BARRIER AT BORDERING VEGETATED WETLANDS (TYP)

DOUBLE PERIMETER EROSION CONTROL BARRIER AT BORDERING VEGETATED WETLANDS.

PERIMETER EROSION CONTROL BARRIER AROUND WETLANDS MIN. 25' OFFSET FROM WETLANDS FLAGS.

PHASE 3 STABILIZED CONSTRUCTION ENTRANCE – FINAL LOCATION TO BE DETERMINED BY CONTRACTOR

PERIMETER EROSION CONTROL BARRIER (TYP) FINAL LOCATION TO BE DETERMINED BY CONTRACTOR

CONSTRUCTION FENCE (TYP) FINAL LOCATION TO BE DETERMINED BY CONTRACTOR

24' DOUBLE GATE

MATCHLINE C2.02
MATCHLINE C2.13

NOTES:
1. REFER TO C1.00 FOR EROSION AND SEDIMENTATION CONTROL NOTES

SCALE:
1" = 20'
20 10 0 20 40

PLANNING BOARD APPROVALS

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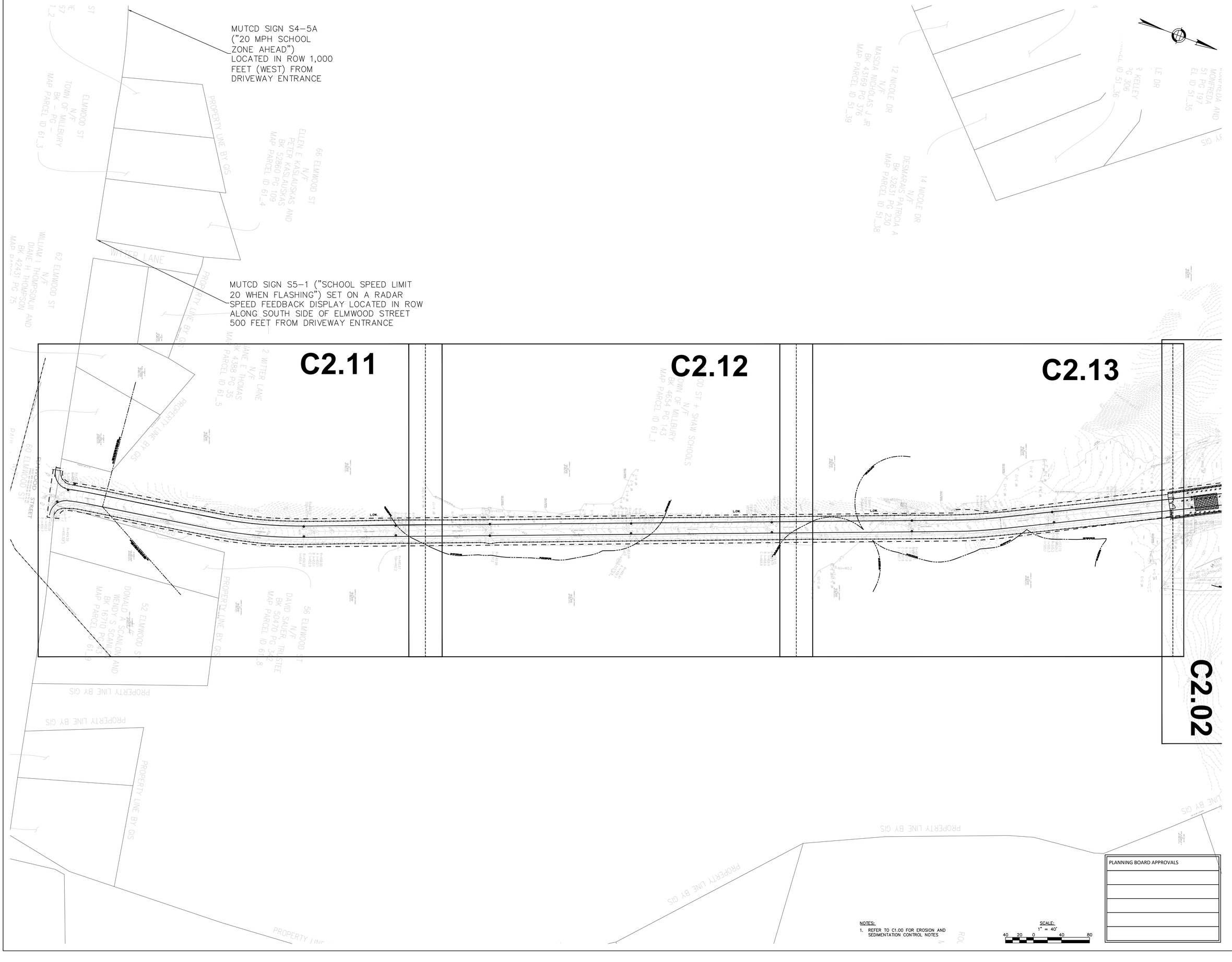
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
SITE SEDIMENTATION AND EROSION CONTROL PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C2.02

NITSCH PROJECT #12936



NOTES:

1. REFER TO C1.00 FOR EROSION AND SEDIMENTATION CONTROL NOTES

SCALE:
1" = 40'
40 20 0 40 80

PLANNING BOARD APPROVALS

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7/31/2020

REVISIONS:

No.	Description	Date

RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
MILLBURY, MA 01527
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
DRIVEWAY SEDIMENTATION AND EROSION CONTROL KEY PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C2.10

NITSCH PROJECT #12936

MATCHLINE C2.12
MATCHLINE C2.11

PERIMETER EROSION CONTROL BARRIER (TYP)

100-FOOT BUFFER ZONE

L.O.W.

INLET PROTECTION (TYP)

PROPOSED PAVEMENT LIMITS SHOWN FOR COORDINATION SEE ROADWAY LAYOUT PLAN (TYP)

APPROXIMATE LOCATION OF EXISTING STONE WALL

APPROXIMATE LOCATION OF EXISTING STONE WALL

PROPERTY LINE BY GIS

PROPERTY LINE BY GIS

PROPERTY LINE BY GIS

PROPERTY LINE BY GIS

PROPERTY LINE BY GIS

PROPERTY LINE BY GIS

PROPERTY LINE BY GIS

PROPERTY LINE BY GIS

2 WITTER LANE
N/F
JANE E THOMAS
BK 4388 PG 35
MAP PARCEL ID 61_5

52 ELMWOOD
N/F
DONALD A SCANLON &
WENDY S SCANLON
BK 16710 PG 47
MAP PARCEL ID 61_4

56 ELMWOOD
N/F
DAVID SAUER, TR
BK 50470 PG
MAP PARCEL ID

ELMWOOD ST

PLANNING BOARD APPROVALS

NOTES:
1. REFER TO C1.00 FOR EROSION AND SEDIMENTATION CONTROL NOTES

SCALE:
1" = 20'
20 10 0 20 40

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COMMONWEALTH OF MASSACHUSETTS
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8/5/2020

REVISIONS:

No.	Description	Date

RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
MILLBURY, MA 01527
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
DRIVEWAY SEDIMENTATION AND EROSION CONTROL PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C2.11

NITSCH PROJECT #12936

MATCHLINE C2.12
MATCHLINE C2.11

MATCHLINE C2.12
MATCHLINE C2.13

ELMWOOD ST + SHAW SCHOOLS
N/F
TOWN OF MILLBURY
BK 4654 PG 143
MAP PARCEL ID 61_1

EDGE OF BORDERING VEGETATED WETLAND

PERIMETER EROSION CONTROL BARRIER (TYP)

L.O.W.

100-FOOT BUFFER ZONE

100-FOOT BUFFER ZONE

INLET PROTECTION (TYP)

PROPOSED PAVEMENT LIMITS SHOWN FOR COORDINATION SEE ROADWAY LAYOUT PLAN (TYP)

NOTES:
1. REFER TO C1.00 FOR EROSION AND SEDIMENTATION CONTROL NOTES

PLANNING BOARD APPROVALS

SCALE:
1" = 20'
20 10 0 20 40

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PLANNING BOARD SUBMISSION - UPDATE

TITLE:
DRIVEWAY SEDIMENTATION AND EROSION CONTROL PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C2.12

NITSCH PROJECT #12936

MATCHLINE C2.12
MATCHLINE C2.13

MATCHLINE C2.13
MATCHLINE C2.02

PERIMETER EROSION CONTROL BARRIER (TYP)

L.O.W.

100-FOOT BUFFER ZONE

INLET PROTECTION (TYP)

CONSTRUCTION FENCE (TYP) FINAL LOCATION TO BE DETERMINED BY CONTRACTOR

PERIMETER EROSION CONTROL BARRIER (TYP) FINAL LOCATION TO BE DETERMINED BY CONTRACTOR

PROPOSED PAVEMENT LIMITS SHOWN FOR COORDINATION SEE ROADWAY LAYOUT PLAN (TYP)

24' DOUBLE GATE

NOTES:

1. REFER TO C1.00 FOR EROSION AND SEDIMENTATION CONTROL NOTES

PLANNING BOARD APPROVALS

SCALE:
1" = 20'
20 10 0 20 40

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PLANNING BOARD SUBMISSION - UPDATE

TITLE:
DRIVEWAY SEDIMENTATION AND EROSION CONTROL PLAN

JOB NUMBER: 18-08

DRAWN BY: JCZ, RL

CHECKED BY: SAB

DATE: 8/5/2020

SCALE: 1"=20'

SHEET NO: C2.13

NITSCH PROJECT #12936

C3.01

C3.02

SCALE:
1" = 40'
40 20 0 40 80

PLANNING BOARD APPROVALS

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No.	Description	Date

RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
MILLBURY, MA 01527
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
SITE
DEMOLITION
KEY PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=40'
SHEET NO: C3.00

NITSCH PROJECT #12936

PLANNING BOARD APPROVALS

SAWCUT

R&D UTILITY POLE BY UTILITY COMPANY SEE ELECTRICAL PLANS

R&D UTILITY POLE BY UTILITY COMPANY SEE ELECTRICAL PLANS

R&D ASPHALT AND CONCRETE PAVEMENTS (TYP)

R&D UTILITY POLE BY UTILITY COMPANY SEE ELECTRICAL PLANS

R&D UTILITY POLE BY UTILITY COMPANY SEE ELECTRICAL PLANS

R&D UTILITY POLE BY UTILITY COMPANY SEE ELECTRICAL PLANS

BENCH MARK:
SPIKE IN UP, #13
ELEVATION=544.56(NAVD88)
FIELD BOOK 728 PAGE 48
SET ON 11-07-2018

100-FOOT BUFFER ZONE

L.O.W.

N: 2895977.67
E: 580793.80

N: 2895710.77
E: 580642.15

N: 2895774.16
E: 580982.53

R&D 12" WATER LINE WHERE IN CONFLICT WITH PROPOSED BUILDING

PROPOSED SCHOOL BUILDING
90,265 TOTAL SQ. FT.

R&D HYDRANT

R&D CB

R&D DMH

R&D TRANSFORMER AND PAD

R&D CB

R&D DMH

R&D CB

TP-7
ESHGW=543.2±

TP-1
ESHGW=534.7±

BENCH MARK:
MUELLER NUT ON HYD
ELEVATION=542.56(NAVD88)
FIELD BOOK 728 PAGE 48
SET ON 11-07-2018

417 GREENWOOD ST
N/F
LAURA E. GOSSELIN
BK 28072 PG 309
MAP PARCEL ID 43_17 & 43_1920_2

70 WORC-PROV PIKE
N/F
ROUTE 146 MILLBURY LLC
BK 24293 PG 105
MAP PARCEL ID 44_31

MATCHLINE C3.01
MATCHLINE C3.02

MATCHLINE C3.01
MATCHLINE C3.02

LEGEND

R&D ASPHALT AND CONCRETE PAVEMENTS

FULL DEPTH ASPHALT PAVEMENT RECLAMATION

SCALE:
1" = 20'
20 10 0 20 40

NOTES:
1. REFER TO C1.00 FOR DEMOLITION NOTES

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7/31/2020

REVISIONS:

No.	Description	Date

RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
MILLBURY, MA 01527
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
SITE DEMOLITION PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C3.01

NITSCH PROJECT #12936

MATCHLINE C3.01
MATCHLINE C3.02

MATCHLINE C3.02
MATCHLINE C3.13

100-FOOT BUFFER ZONE

R&D CB

R&D DMH

R&D UTILITY POLE BY UTILITY COMPANY SEE ELECTRICAL PLANS

R&D SITE LIGHTING (TYP)

EXISTING BUILDING TO BE DEMOLISHED SEE ARCHITECTURAL AND STRUCTURAL PLANS

M&P CB

M&P 12" DRAIN PIPE

R&D ASPHALT AND CONCRETE PAVEMENTS (TYP)

M&P 12" DRAIN PIPE

M&P DMH

M&P HEADWALL

R&D HYDRANT

M&P 18" PIPE OUT TO 25' FROM HEADWALL

M&P AND INSTALL EROSION CONTROL BARRIER AROUND HEADWALL & SWALE

M&P DRAINAGE STRUCTURES AND PIPES

TP-2 ESHGW=542±

TP-6 ESHGW=531.8±

TP-5 ESHGW=534.2±

TP-3 ESHGW=532.5±

TP-4 ESHGW=524.7±

TEST PIT LB-6 GROUND ELEVATION=549.7

L.OW.

50' WIDE EASEMENT

LEGEND

R&D ASPHALT AND CONCRETE PAVEMENTS

FULL DEPTH ASPHALT PAVEMENT RECLAMATION

NOTES:
1. REFER TO C1.00 FOR DEMOLITION NOTES

SCALE:
1" = 20'
20 10 0 20 40

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SITE DEMOLITION PLAN

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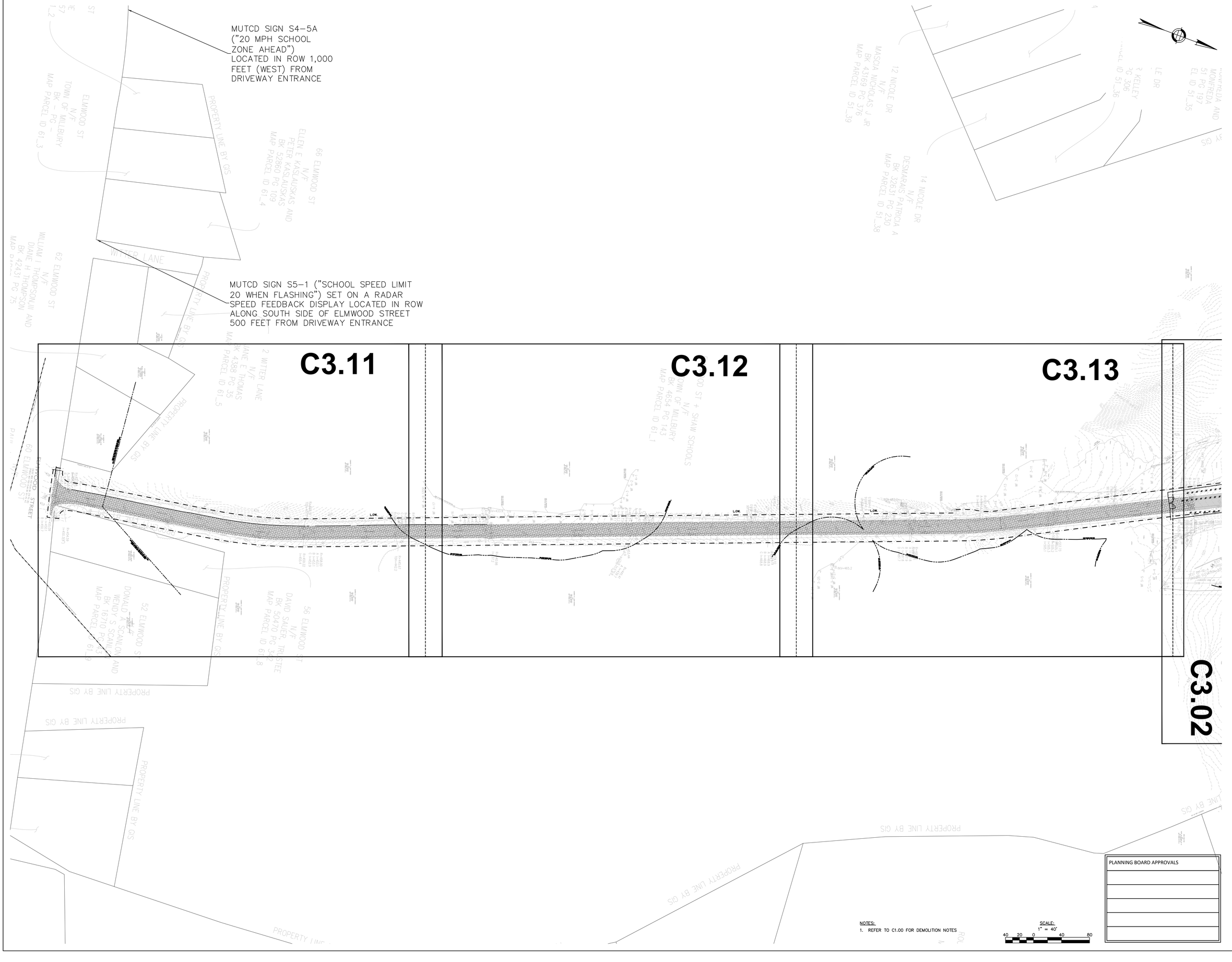
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C3.02

NITSCH PROJECT #12936



PLANNING BOARD APPROVALS

Turowski2 Architecture
P.O. Box 1290
313 Wareham Road
Marion, MA 02738
508.758.9777 phone
www.t2architecture.com

CONSULTANT:
Nitsch Engineering
www.nitscheng.com
370 Main Street, Suite 850
Worcester, MA 01608
T: (508) 365-1030
F: (617) 338-6472

STAMP:
COMMONWEALTH OF MASSACHUSETTS
SANDRA A. BROCK
CIVIL
No. 39417
REGISTERED PROFESSIONAL ENGINEER
7/31/2020

REVISIONS:

No.	Description	Date

RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
MILLBURY, MA 01527
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
DRIVEWAY DEMOLITION KEY PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C3.10

NITSCH PROJECT #12936

MATCHLINE C3.12

MATCHLINE C3.11

SAWCUT

SAWCUT

SAWCUT

FULL DEPTH RECLAMATION (8" MIN.) OF ASPHALT PAVEMENT IN DRIVEWAY (TYP)

R&D ASPHALT CURB IN DRIVEWAY (TYP)

L.O.W.

100-FOOT BUFFER ZONE

M&P DRAINAGE STRUCTURES IN DRIVEWAY & ADJUST TO FINISH GRADE (TYP)

APPROXIMATE LOCATION OF EXISTING UTILITY POLE TO BE REMOVED & REPLACED BY NEW POLE AS SHOWN ON PLAN

APPROXIMATE LOCATION OF EXISTING UTILITY POLE TO BE REMOVED BY NEW POLE AS SHOWN ON PLAN

APPROXIMATE LOCATION OF EXISTING UTILITY POLE TO BE REMOVED

PROPERTY LINE BY GIS

PROPERTY LINE BY GIS

PROPERTY LINE BY GIS

PROPERTY LINE BY GIS

2 WITTER LANE
N/F
JANE E THOMAS
BK 4388 PG 35
MAP PARCEL ID 61_5

52 ELMWOOD ST
DONALD A SCANLON
WENDY S SCANLON
BK 16710 PG 47
MAP PARCEL ID 61_4

56 ELMWOOD ST
N/F
DAVID SAUER, TR
BK 50470 PG
MAP PARCEL ID 6

PLANNING BOARD APPROVALS

LEGEND

R&D ASPHALT AND CONCRETE PAVEMENTS

FULL DEPTH ASPHALT PAVEMENT RECLAMATION

NOTES:

1. REFER TO C1.00 FOR DEMOLITION NOTES

SCALE:
1" = 20'
20 10 0 20 40

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REVISIONS:

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MILLBURY, MA 01527

PLANNING BOARD SUBMISSION - UPDATE

TITLE:
DRIVEWAY DEMOLITION PLAN

JOB NUMBER: 18-08

DRAWN BY: JCZ, RL

CHECKED BY: SAB

DATE: 8/5/2020

SCALE: 1"=20'

SHEET NO: C3.11

NITSCH PROJECT #12936

MATCHLINE C3.12
MATCHLINE C3.11

MATCHLINE C3.12
MATCHLINE C3.13

ELMWOOD ST + SHAW SCHOOLS
N/F
TOWN OF MILLBURY
BK 4654 PG 143
MAP PARCEL ID 61_1

EDGE OF BORDERING VEGETATED WETLAND

FULL DEPTH RECLAMATION (8" MIN.) OF ASPHALT PAVEMENT IN DRIVEWAY (TYP)

R&D ASPHALT CURB IN DRIVEWAY (TYP)

SAWCUT EXIST. ASPHALT

L.OW.

M&P DRAINAGE STRUCTURES IN DRIVEWAY & ADJUST TO FINISH GRADE (TYP)

SAWCUT EXIST. ASPHALT

100-FOOT BUFFER ZONE

100-FOOT BUFFER ZONE

LEGEND

R&D ASPHALT AND CONCRETE PAVEMENTS

FULL DEPTH ASPHALT PAVEMENT RECLAMATION

PLANNING BOARD APPROVALS

NOTES:
1. REFER TO C1.00 FOR DEMOLITION NOTES

SCALE:
1" = 20'
20 10 0 20 40

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REVISIONS:

No.	Description	Date

RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
MILLBURY, MA 01527
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
DRIVEWAY DEMOLITION PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C3.12

NITSCH PROJECT #12936

MATCHLINE C3.12
MATCHLINE C3.13

MATCHLINE C3.13
MATCHLINE C3.02

M&P DRAINAGE STRUCTURES IN DRIVEWAY & ADJUST TO FINISH GRADE (TYP)

R&D ASPHALT CURB IN DRIVEWAY (TYP)

FULL DEPTH RECLAMATION (8" MIN.) OF ASPHALT PAVEMENT IN DRIVEWAY (TYP)

L.O.W.

100-FOOT BUFFER ZONE

100-FOOT BUFFER ZONE

100-FOOT BUFFER ZONE

100-FOOT BUFFER ZONE

NOTES:

1. REFER TO C1.00 FOR EROSION AND SEDIMENTATION CONTROL NOTES

PLANNING BOARD APPROVALS

LEGEND

- R&D ASPHALT AND CONCRETE PAVEMENTS
- FULL DEPTH ASPHALT PAVEMENT RECLAMATION

SCALE:
1" = 20'
20 10 0 20 40

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No.	Description	Date

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PLANNING BOARD SUBMISSION - UPDATE

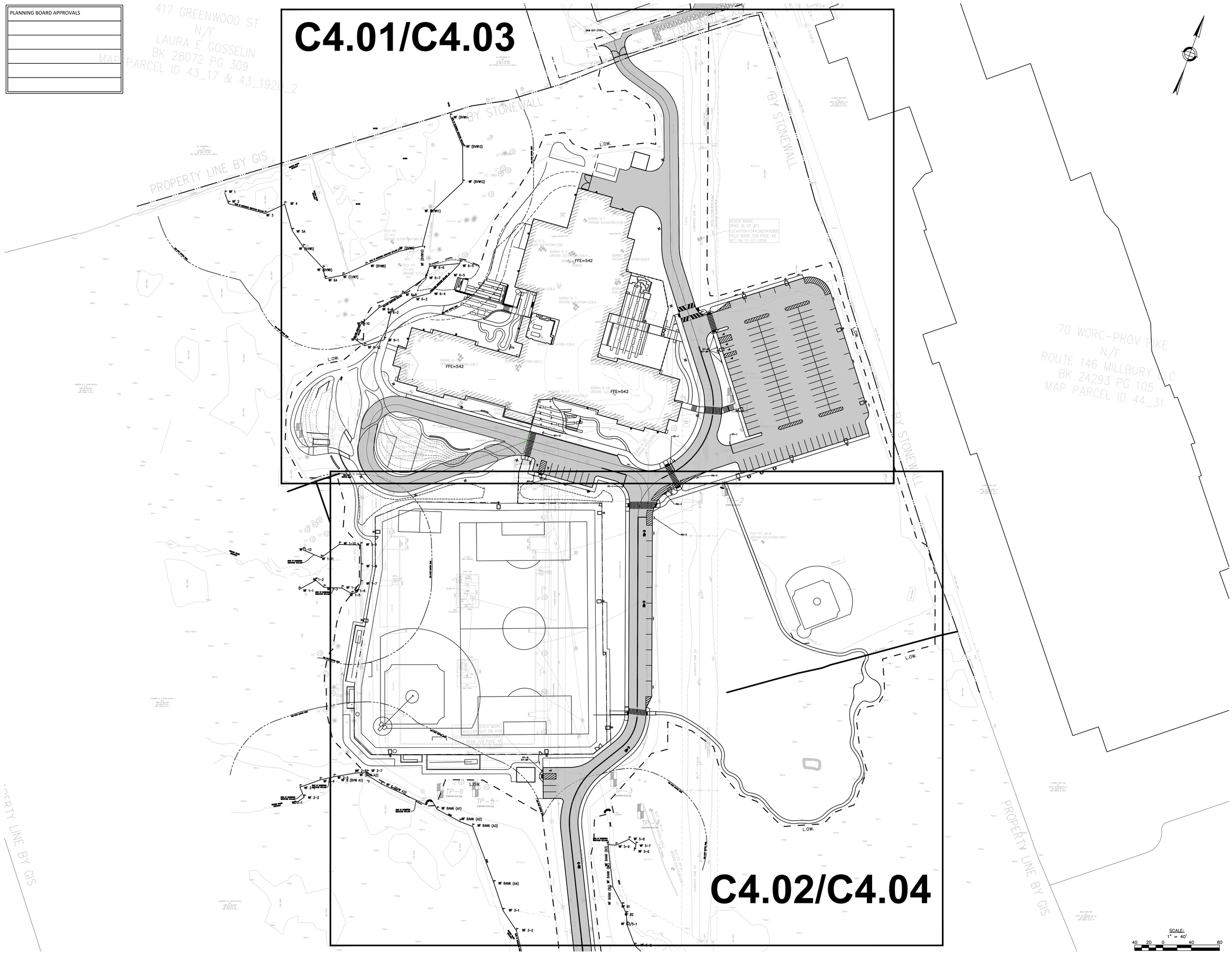
TITLE:
DRIVEWAY DEMOLITION PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C3.13

NITSCH PROJECT #12936

PLANNING BOARD APPROVALS

C4.01/C4.03



C4.02/C4.04

SCALE:
1" = 40'
40 20 0 40 80

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7/31/2020

REVISIONS:

No.	Description	Date

RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
MILLBURY, MA 01527
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
OVERALL SITE
DRIVEWAY
LAYOUT PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=40'
SHEET NO: C4.00

NITSCH PROJECT #12936

LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	43.93	N42°08'50"E
L2	25.84	N51°09'49"E
L3	12.50	S37°59'16"E
L4	188.50	N52°00'44"E
L5	14.73	N37°59'16"W
L6	177.44	N37°59'16"W
L7	108.33	S52°00'44"W
L8	19.97	S32°01'45"W
L9	9.24	S52°00'44"W
L10	23.06	S85°00'00"W
L11	0.20	S5°00'00"E
L12	7.09	S85°00'00"W
L13	19.80	S5°00'00"E
L14	48.90	S85°00'00"W
L15	22.00	S5°00'00"E

LINE TABLE		
LINE #	LENGTH	DIRECTION
L16	2.64	S5°00'00"E
L17	4.45	S85°00'00"W
L18	21.66	N85°05'20"E
L19	9.09	S47°11'05"E
L20	310.25	N85°05'20"E
L21	24.39	N11°34'47"W
L22	137.70	S50°03'02"W
L23	7.05	S84°43'48"W
L24	12.97	N4°54'40"W
L25	87.00	S85°05'20"W
L26	13.00	S4°54'40"E
L27	22.41	S85°05'20"W
L28	37.60	N69°19'17"E
L29	43.00	N20°40'43"W
L30	23.46	S69°19'17"W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	31.47	200.00	9°00'59"
C2	8.64	5.50	90°00'00"
C3	6.06	5.50	63°09'10"
C4	11.02	10.00	63°09'10"
C5	47.12	30.00	90°00'00"
C6	3.31	9.50	19°58'59"
C7	3.49	10.00	19°58'59"
C8	16.84	15.00	64°19'15"
C9	23.13	15.00	88°20'38"
C10	23.71	15.00	90°33'46"
C11	36.23	20.02	103°42'21"
C12	11.00	7.00	90°00'00"
C13	15.71	10.00	90°00'00"
C14	38.83	30.00	74°09'28"
C15	37.47	50.00	42°56'30"

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C16	8.33	10.00	47°43'35"
C17	84.36	50.00	96°40'07"
C18	123.96	60.00	118°22'11"
C19	30.26	50.00	34°40'47"
C20	7.89	5.00	90°21'32"
C21	7.85	5.00	90°00'00"
C22	39.13	30.00	74°43'35"
C23	33.48	50.00	38°21'45"
C24	9.17	5.00	105°02'33"

MATCHLINE - SEE INSET
MATCHLINE C4.01

INSET

ASPHALT PAVEMENT UTILITY TRENCH REPAIR

SAW CUT (TYP)

PLANNING BOARD APPROVALS

SCALE: 1" = 20'

20 10 0 20 40

LEGEND

HOT MIX ASPHALT PAVEMENT (SUPERPAVE)

SAW CUT (TYP)

STA: 37+69.94, 12.00'R

STA: 37+68.92, 12.00'R

STA: 37+68.92, 8.00'L

STA: 37+59.59, 12.00'R

STA: 37+29.73, 12.00'R

STA: 36+87.39, 12.00'R

STA: 37+29.73, 8.00'L

STA: 36+87.39, 8.00'L

STA: 36+42.74, 8.00'L

STA: 36+42.74, 12.00'R

PC: 36+42.74

STA: 35+88.48, 8.00'L

STA: 35+88.48, 12.00'R

MAINTENANCE SHED 484 SF

SERVICE AREA

N: 2895977.67
E: 580793.80

STA: 34+89.54, 12.00'L

PT: 34+62.79

STA: 34+62.79, 12.00'R

STA: 34+32.86, 12.00'R

PC: 34+32.86

STA: 33+69.66, 12.00'R

STA: 33+68.16, 12.08'R

STA: 33+63.16, 13.48'R

CONCRETE WCR WITH DETECTABLE WARNING PANEL

RAISED CROSSWALK
STA: 33+70.41, 12.00'L

STA: 33+68.16, 12.00'L

DETECTABLE WARNING PANEL (TYP)

STA: 33+60.91, 12.00'L

CONCRETE WCR WITH DETECTABLE WARNING PANEL

STA: 33+15.66, 12.00'R

261.36'

236.00'

170.00'

STA: 32+64.53, 12.00'L

STA: 32+64.53, 12.00'R

PT: 32+44.53

STA: 31+95.07, 12.00'R

STA: 31+21.70, 12.00'L

STA: 31+14.05, 12.00'L

STA: 31+10.69, 12.00'L

STA: 31+07.69, 12.00'L

STA: 31+07.10, 12.00'L

PC: 31+07.89

STA: 31+18.29, 20.31'R

N: 2895774.16
E: 581022.53
(BUILDING LAYOUT AS PER LANDSCAPE PLANS)

PROPOSED SCHOOL BUILDING
90,265 TOTAL SQ. FT.

FFE=542

N: 2895710.77
E: 580642.15
(BUILDING LAYOUT AS PER LANDSCAPE PLANS)

FFE=542

FFE=542

L.O.W.

147.40'

100-FOOT BUFFER ZONE

50-FOOT BUFFER ZONE

BUS LOOP

VGC

CS

SOAKED VEGETATED WETLAND

EDGE OF BORDERING VEGETATED WETLAND

WATER

GROUND WATER BREAKOUT

FIRE LANE

SOCCER PRACTICE FIELD

BENCH MARK:
SPIKE IN UP, #13
ELEVATION=544.56(NAVD88)
FIELD BOOK 728 PAGE 48
SET ON 11-07-2018

MATCHLINE C4.01
MATCHLINE C4.02

MATCHLINE C4.01
MATCHLINE C4.02

Turowski2 Architecture

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COMMONWEALTH OF MASSACHUSETTS
SANDRA A. BROCK
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No. 39417
REGISTERED PROFESSIONAL ENGINEER
8/5/2020

REVISIONS:

No.	Description	Date

RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
MILLBURY, MA 01527

PLANNING BOARD SUBMISSION - UPDATE

TITLE:
SITE
DRIVEWAY
LAYOUT PLAN

JOB NUMBER: 18-08

DRAWN BY: JCZ, RL

CHECKED BY: SAB

DATE: 8/5/2020

SCALE: 1"=20'

SHEET NO: C4.01

NITSCH PROJECT #12936

MATCHLINE C4.01
MATCHLINE C4.02

MATCHLINE C4.02
MATCHLINE C4.13

ATHLETIC FIELDS

ATHLETIC FIELDS

L.O.W.

L.O.W.

100-FOOT BUFFER ZONE

CONCRETE WCR WITH DETECTABLE WARNING PANEL

(9) 9' X 18' PARKING SPACES (TYP)

(11) 8' X 22' PARALLEL PARKING SPACES (TYP)

(1) 8' X 18' ACCESSIBLE PARKING SPACE)

(3) 9' X 18' PARKING SPACES (TYP)

COMFORT STATION 5'X, 5'F

BICYCLE ACCESS SHARROWS (TYP)

8' CROSSWALK SEE DETAIL (TYP)

EDGE OF BORDERING VEGETATED WETLAND

BANK

DRAIN WATER BERM

EDGE OF BORDER

STA: 30+46.45, 15.48'L
STA: 30+43.66, 14.48'L
STA: 30+39.67, 13.38'L
STA: 30+34.76, 12.47'L
PC: 30+27.81
STA: 30+27.81, 12.00'L
STA: 27+62.38, 12.00'L
STA: 27+60.02, 12.04'L
STA: 27+56.47, 12.07'L
STA: 27+54.10, 12.11'L
STA: 27+50.98, 11.99'L
STA: 26+94.78, 12.00'L
STA: 26+49.95, 12.05'L
PT: 26+49.78
STA: 25+86.08, 12.00'L
STA: 25+49.55, 12.00'L
PC: 25+49.55

STA: 31+18.29, 20.31'R
STA: 31+13.22, 20.03'R
STA: 31+07.00, 20.00'R
STA: 31+01.69, 20.00'R
STA: 30+58.30, 20.00'R
STA: 30+48.61, 20.00'R
STA: 30+27.81, 20.00'R
STA: 27+53.08, 12.00'R
STA: 27+50.12, 12.00'R
PT: 27+50.12
STA: 27+48.41, 12.12'R
STA: 26+94.78, 12.00'R
STA: 26+49.94, 12.00'R
PC: 25+49.55
STA: 25+49.55, 12.00'R

R=82.00'
L=85.78'
R=82.00'
L=85.45'
R=200.00'
L=130.40'
N20°11'05"W
277.69'
N30°52'31"W
44.83'

30+00
29+00
28+00
27+00
26+00
25+00
24+00

DYCL
VGC

22.00'
8.00'
18.00'
9.00'

#4 SPK SET
N:2895625.8254
E:581400.1593
El.:547.826

#8 MAG SET
N:2895462.5057
E:581089.6885
El.:543.468

#11 CB
N:2895207.8745
E:581042.7816
El.:539.000

BENCH MARK
MUELLER NUT ON HYD
ELEVATION=542.30(NAVD88)
FIELD BOOK 728 PAGE 44
SET ON 11-5-2018

#17 HT SET
N:2895402.3894
E:581342.8033
El.:554.186

TEST PIT LB-4
GROUND ELEVATION=549.7

TEST PIT LB-5
GROUND ELEVATION=550.0

TP-6
ESHGW=531.8±

TP-5
ESHGW=534.2±

TP-3
ESHGW=532.5±

TP-4
ESHGW=524.7±

WF 1-10
WF 1-9
WF 1-8
WF 1-7
WF 1-6
WF 1-5
WF 1-4
WF 1-3
WF 1-2
WF 1-1
WF 2-6
WF 2-7
WF 2-5
WF 2-4
WF 2-3
WF 2-2
WF 2-1
WF A (BVW A4)
WF B (BVW A1)
WF C (BVW A2)
WF (BVW A3)
WF BANK (A1)
WF BANK (A2)
WF BANK (A3)
WF BANK (A4)
WF 3-1
WF 3-2
WF 5-8
WF 5-9
WF 5-7
WF 5-6
WF BANK (B1)
WF BANK (B2)
WF B1
WF B2
WF B3/5-1

ORDERING WETLAND

PLANNING BOARD APPROVALS

LEGEND

HOT MIX ASPHALT PAVEMENT (SUPERPAVE)

SCALE:
1" = 20'
20 10 0 20 40

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PLANNING BOARD SUBMISSION - UPDATE

TITLE:
SITE
DRIVEWAY
LAYOUT PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C4.02

NITSCH PROJECT #12936

PLANNING BOARD APPROVALS

SAW CUT (TYP)

#19 MAG NAIL
N:2896186.3748
E:580754.8332
EL:533.572

417 GREENWOOD ST
N/F
LAURA E. GOSSELIN
BK 28072 PG 309
MAP PARCEL ID 43_17 & 43_1920_2

#5 MAG SET
N:2896103.3745
E:580865.0712
EL:541.494

BENCH MARK:
SPIKE IN UP. #13
ELEVATION=544.56(NAVD88)
FIELD BOOK 728 PAGE 48
SET ON 11-07-2018

70 WORC-PROV PIKE
N/F
ROUTE 146 MILBURY LLC
BK 24293 PG 105
MAP PARCEL ID 44_31

SCALE:
1" = 20'
20 10 0 20 40

WATER
GROUND WATER BREAKOUT
EDGE OF BORDERING VEGETATED WETLAND
WF (BVW14)
WF (BVW13)
WF (BVW12)
WF (BVW11)
WF 4
WF 5A
WF (BVW5)
WF (BVW6)
WF (BVW7)
WF 6A
WF 6-5
WF 6-6
WF 6-7
WF 6-4
WF 6-3
WF 6-8
WF 6-9
WF 6-2
WF 6-10
WF 6-11
WF 6-12
WF 6-1
ISOLATED VEGETATED WETLAND
100-FOOT BUFFER ZONE
50-FOOT BUFFER ZONE
TEST PIT (TP-P1) GROUND ELEVATION=528.781
TEST PIT (TP-P2) GROUND ELEVATION=531.716
BORING B-1 GROUND ELEVATION=538.5
BORING B-2 GROUND ELEVATION=538.9
BORING B-3 GROUND ELEVATION=538.2
BORING B-4 GROUND ELEVATION=539.6
BORING B-15 GROUND ELEVATION=538.5
BORING B-16 GROUND ELEVATION=540.7
BORING B-18 GROUND ELEVATION=540.7
SOCCER PRACTICE FIELD
SOCCER GOAL
BASEBALL FIELD
MAINTENANCE SHED 484 SF
L.O.W.
FFE=542
PROPOSED SCHOOL BUILDING
90,265 TOTAL SQ. FT.
N:2895977.67
E:580793.80
N:2895710.77
E:580642.15
N:2895774.16
E:581022.53
CROSSWALK SEE DETAIL (TYP)
W11-2
R7-8
R8-3
R1-1
DI'CL
RAISED CROSSWALK WITH PAINTED CHEVRONS SEE DETAIL
(5) 8' X 22' PARALLEL PARKING SPACES (TYP)
(8) 8' X 22' PARALLEL PARKING SPACES (TYP)
(34) 9' X 18' PARKING SPACES (TYP)
(4) 8' X 18' ACCESSIBLE PARKING SPACES (TYP)
8' CROSSWALK SEE DETAIL (TYP)
(21) 9' X 18' PARKING SPACES (TYP)
8.00'
22.00'
9.00'
18.00'
5.00'
24.00'
MATCHLINE C4.03
MATCHLINE C4.04

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F: (617) 338-6472

STAMP:
COMMONWEALTH OF MASSACHUSETTS
SANDRA A. BROCK
CIVIL
No. 39417
REGISTERED PROFESSIONAL ENGINEER
7/31/2020

REVISIONS:

No.	Description	Date

RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
MILLBURY, MA 01527
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
SITE DRIVEWAY SIGNAGE & STRIPING PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C4.03

NITSCH PROJECT #12936

MATCHLINE C4.03
MATCHLINE C4.04

100-FOOT BUFFER ZONE

(9) 9' X 18' PARKING SPACES (TYP)

R7–8
R7–8P

R1–1

R8–3

8' CROSSWALK SEE DETAIL (TYP)

DYCL

22.00'

8.00'

(11) 8' X 22' PARALLEL PARKING SPACES (TYP)

#8 MAG SET
N:2895462.5057
E:581089.6885
El.:543.468

#4 SPK SET
N:2895625.8254
E:581400.1593
El.:547.826

#7 NT SET
N:2895402.3894
E:581142.8913
El.:554.186

#11 CB
N:2895207.6745
E:581042.7816
El.:540.832

TP–1
ESHGW=542.2±

TP–2
ESHGW=542±

TP–3
ESHGW=532.5±

TP–4
ESHGW=524.7±

TP–5
ESHGW=534.2±

TP–6
ESHGW=531.8±

TEST PIT LB–4
GROUND ELEVATION=549.7

TEST PIT LB–5
GROUND ELEVATION=550.0

1 STORY BRICK BUILDING

COURT YARD
STONE DUST

SOCCER GOAL

BENCH MARK
MIDDLESEX NUT ON HYD
ELEVATION=542.30(NAVD88)
FIELD BOOK 728 PAGE 44
SET ON 11–5–2018

COMFORT STATION
537 SF

(1) 8' X 18' ACCESSIBLE PARKING SPACE)

(3) 9' X 18' PARKING SPACES (TYP)

18.00'

9.00'

L.O.W.

WF 1–1 WF 1–2 WF 1–3 WF 1–4 WF 1–5 WF 1–6 WF 1–7 WF 1–8 WF 1–9 WF 1–10

ORDERING WETLAND

WF 2–1 WF 2–2 WF 2–3 WF 2–4 WF 2–5 WF 2–6 WF 2–7

WF E (BVW A3)
WF B (BVW A1)
WF (BVW A3)

EDGE OF BORDERING VEGETATED WETLAND

WF BANK (A1)
WF BANK (A2)
WF BANK (A3)
WF BANK (A4)
BANK

WF 3–1
WF 3–2

EDGE OF BANK

WF 5–5 WF 5–6 WF 5–7 WF 5–8 WF 5–9

WF BANK (B3)
WF BANK (B2)
WF BANK (B1)

WF B1
WF B2
WF B3/5–1

INV 18"=529.1

SWALE

MATCHLINE C4.04
MATCHLINE C4.13

PLANNING BOARD APPROVALS

SCALE:
1" = 20'
20 10 0 20 40

Turowski2 Architecture

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313 Wareham Road
Marion, MA 02738

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www.t2architecture.com

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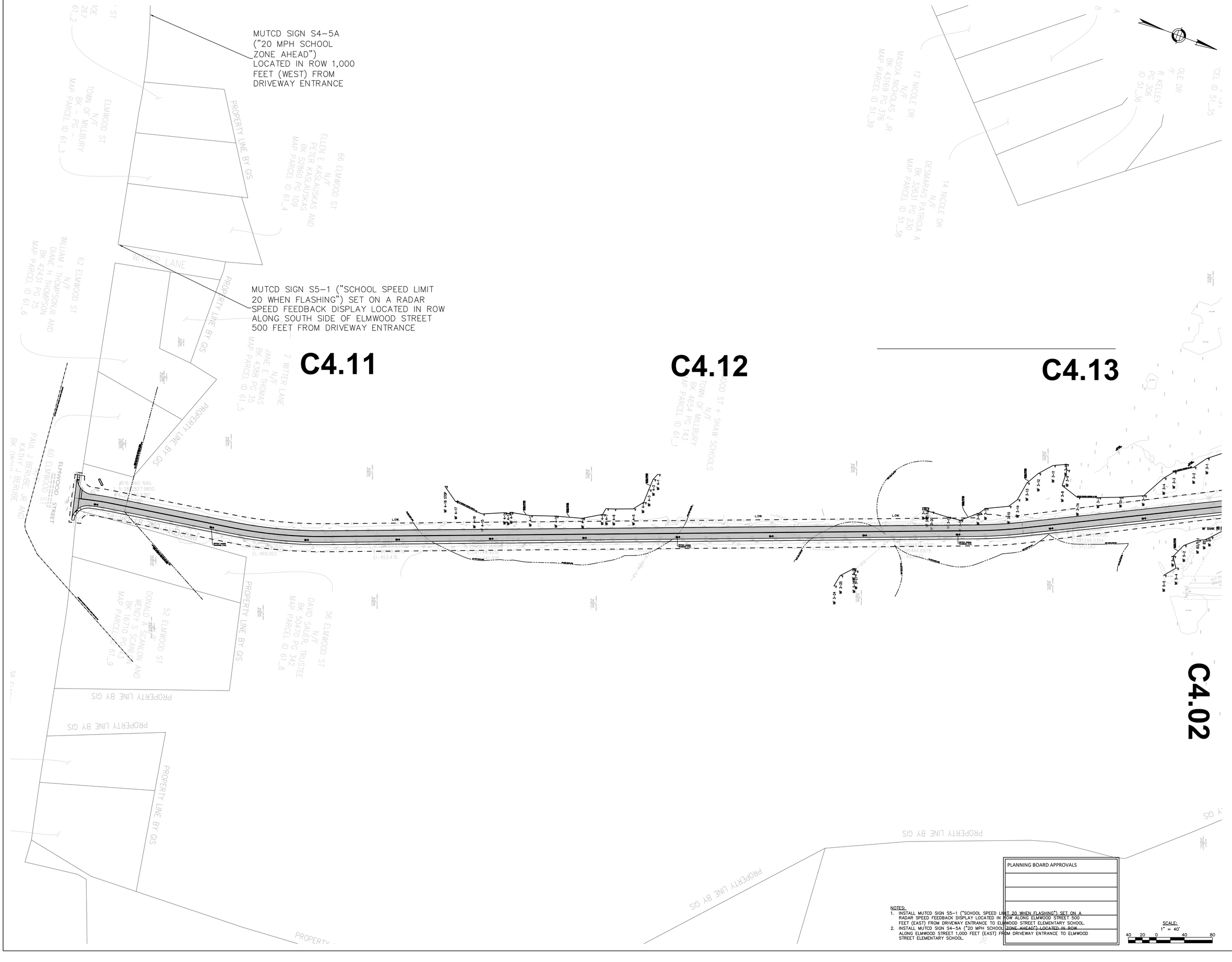
JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C4.04

NITSCH PROJECT #12936



NOTES:
1. INSTALL MUTCD SIGN S5-1 ("SCHOOL SPEED LIMIT 20 WHEN FLASHING") SET ON A RADAR SPEED FEEDBACK DISPLAY LOCATED IN ROW ALONG ELMWOOD STREET 500 FEET (EAST) FROM DRIVEWAY ENTRANCE TO ELMWOOD STREET ELEMENTARY SCHOOL.
2. INSTALL MUTCD SIGN S4-5A ("20 MPH SCHOOL ZONE AHEAD") LOCATED IN ROW ALONG ELMWOOD STREET 1,000 FEET (EAST) FROM DRIVEWAY ENTRANCE TO ELMWOOD STREET ELEMENTARY SCHOOL.

PLANNING BOARD APPROVALS

SCALE: 1" = 40'
40 20 0 40 80

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REVISIONS:

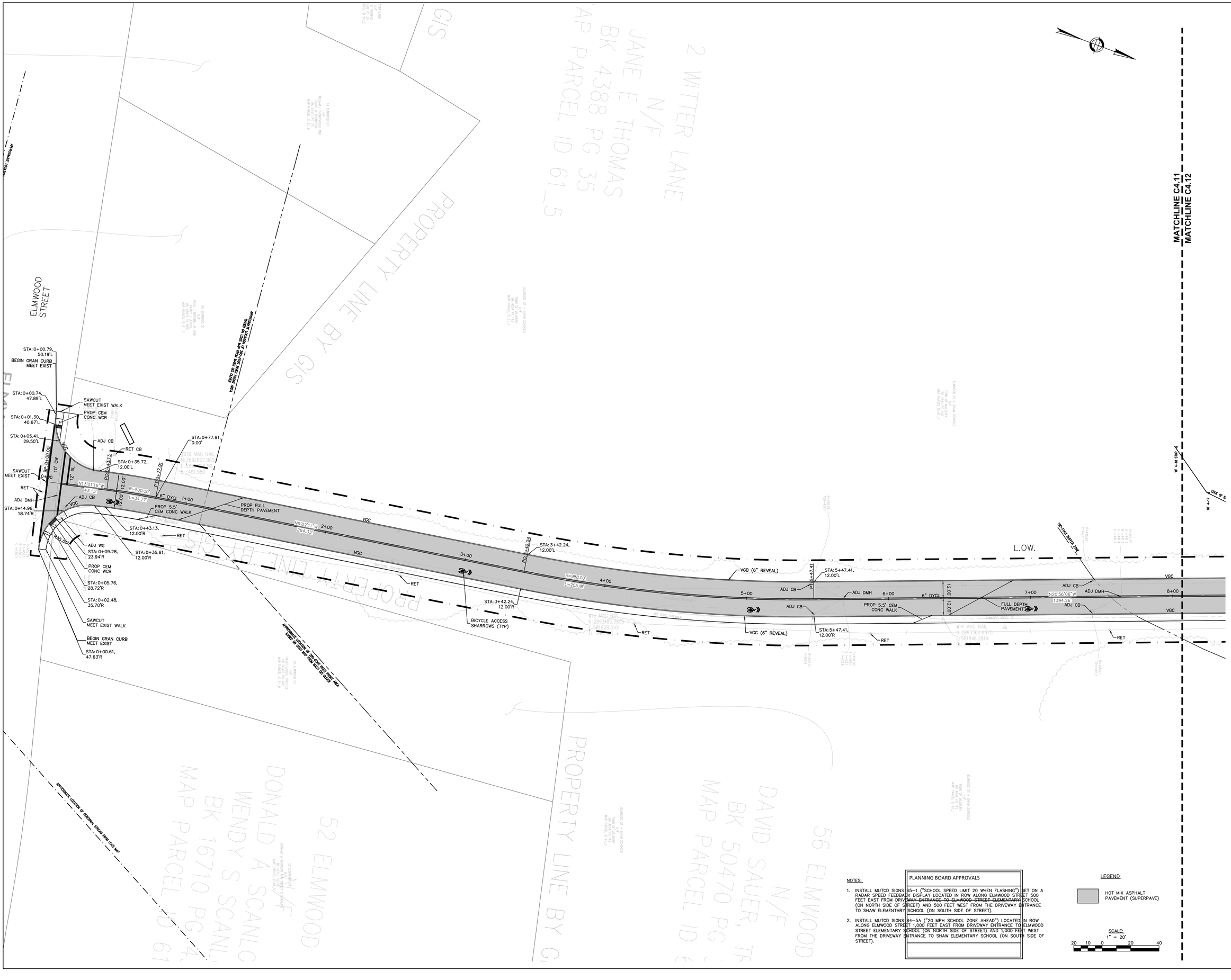
No.	Description	Date

RAYMOND E. SHAW ELEMENTARY SCHOOL
58 ELMWOOD ST,
MILLBURY, MA 01527
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
OVERALL DRIVEWAY LAYOUT PLAN

JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=40'
SHEET NO: C4.10

NITSCH PROJECT #12936



NOTES:

1. INSTALL MUTCD SIGNS S5-1 ("SCHOOL SPEED LIMIT 20 WHEN FLASHING") SET ON A RADAR SPEED FEEDBACK DISPLAY LOCATED IN ROW ALONG ELMWOOD STREET 500 FEET EAST FROM DRIVEWAY ENTRANCE TO ELMWOOD STREET ELEMENTARY SCHOOL (ON NORTH SIDE OF STREET) AND 500 FEET WEST FROM THE DRIVEWAY ENTRANCE TO SHAW ELEMENTARY SCHOOL (ON SOUTH SIDE OF STREET).
2. INSTALL MUTCD SIGNS S4-5A ("20 MPH SCHOOL ZONE AHEAD") LOCATED IN ROW ALONG ELMWOOD STREET 1,000 FEET EAST FROM DRIVEWAY ENTRANCE TO ELMWOOD STREET ELEMENTARY SCHOOL (ON NORTH SIDE OF STREET) AND 1,000 FEET WEST FROM THE DRIVEWAY ENTRANCE TO SHAW ELEMENTARY SCHOOL (ON SOUTH SIDE OF STREET).

PLANNING BOARD APPROVALS

LEGEND

HOT MIX ASPHALT PAVEMENT (SUPERPAVE)

SCALE:
1" = 20'
20 10 0 20 40

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58 ELMWOOD ST,
MILLBURY, MA 01527
PLANNING BOARD SUBMISSION - UPDATE

TITLE:
DRIVEWAY LAYOUT, SIGNAGE & STRIPING PLAN

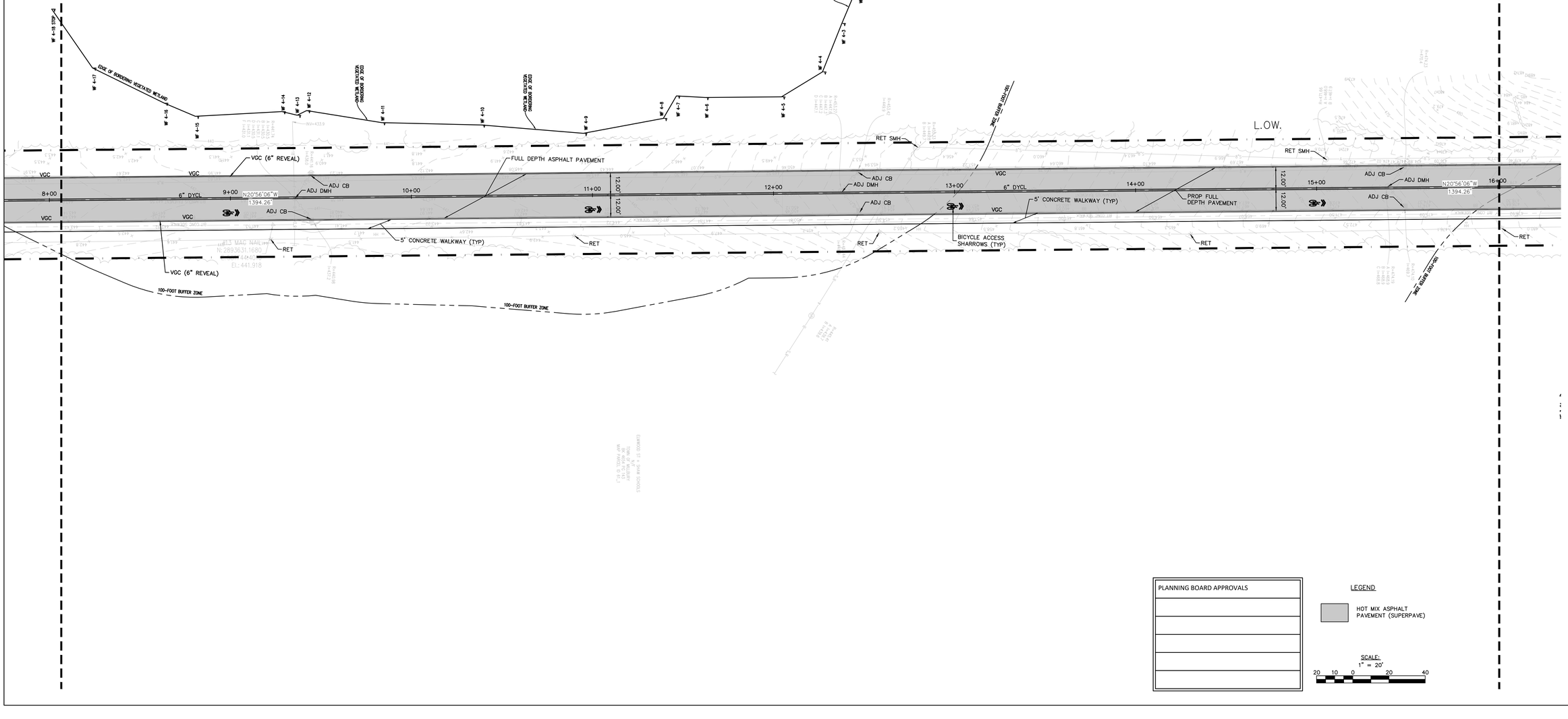
JOB NUMBER: 18-08
DRAWN BY: JCZ, RL
CHECKED BY: SAB
DATE: 8/5/2020
SCALE: 1"=20'
SHEET NO: C4.11

NITSCH PROJECT #12936

MATCHLINE C4.11
MATCHLINE C4.12

MATCHLINE C4.12
MATCHLINE C4.13

ELMWOOD ST + SHAW SCHOOLS
N/F
TOWN OF MILLBURY
BK 4654 PG 143
MAP PARCEL ID 61_1



PLANNING BOARD APPROVALS

LEGEND

HOT MIX ASPHALT PAVEMENT (SUPERPAVE)

SCALE:
1" = 20'

20 10 0 20 40

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TITLE:
DRIVEWAY LAYOUT, SIGNAGE, & STRIPING PLAN

JOB NUMBER: 18-08

DRAWN BY: JCZ, RL

CHECKED BY: SAB

DATE: 8/5/2020

SCALE: 1"=20'

SHEET NO: C4.12

NITSCH PROJECT #12936

MATCHLINE C4.12
MATCHLINE C4.13

MATCHLINE C4.13
MATCHLINE C4.04

L.O.W.

100-FOOT BUFFER ZONE

EDGE OF BORDERING VEGETATED WETLAND

RET HEADWALL

RET SMH

PROP GRAN CURB (6" REVEAL)

ADJ DMH

ADJ CB

PROP FULL DEPTH PAVEMENT

6" DYCL

DYCL

VGC

12.00'

N20°56'06"W 1394.26'

16+00

17+00

18+00

19+00

20+00

21+00

22+00

23+00

24+00

R=988.00'

L=97.11'

PC: 19+41.68

PT: 20+38.79

STA: 20+38.79, 12.00'L

STA:19+41.68, 12.00'R

N26°34'00"W 510.76'

RET

PROP 5.5' CEM CONC WALK

ADJ WG

BICYCLE ACCESS SHARROWS (TYP)

#10 MAGNOLIA

GROUND WATER RECHARGE AREA

PLANNING BOARD APPROVALS

LEGEND

HOT MIX ASPHALT PAVEMENT (SUPERPAVE)

SCALE:
1" = 20'

20 10 0 20 40

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NITSCH PROJECT #12936