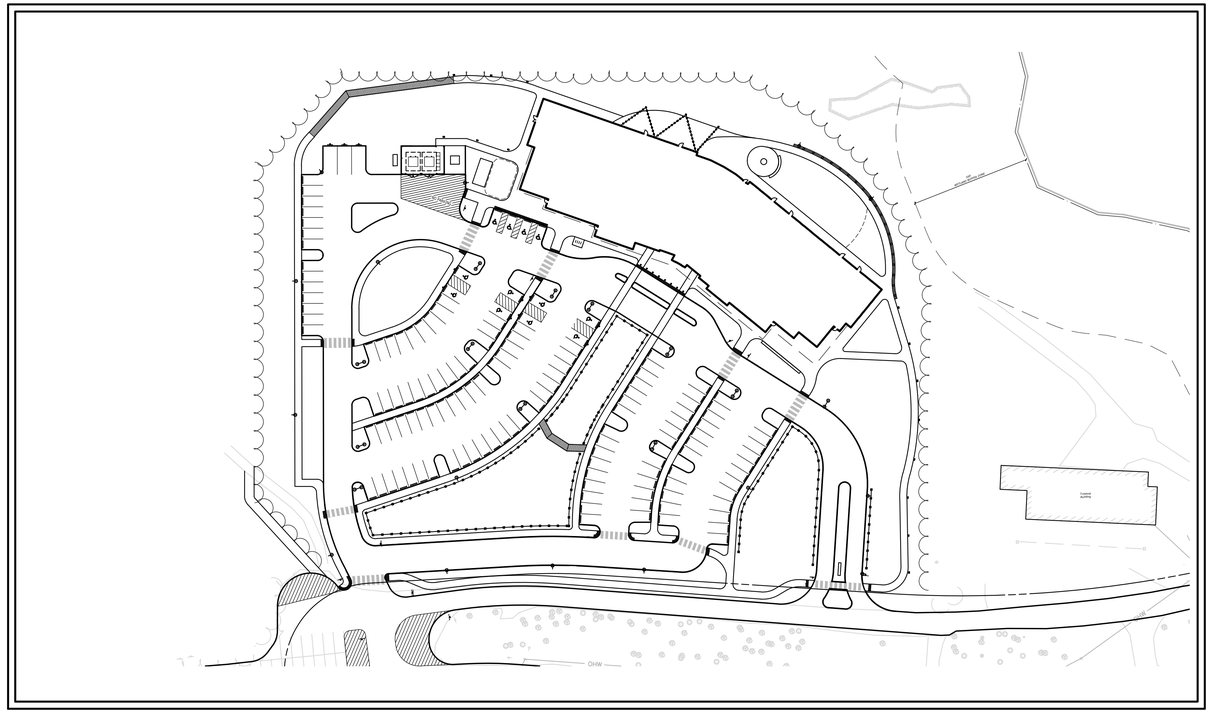
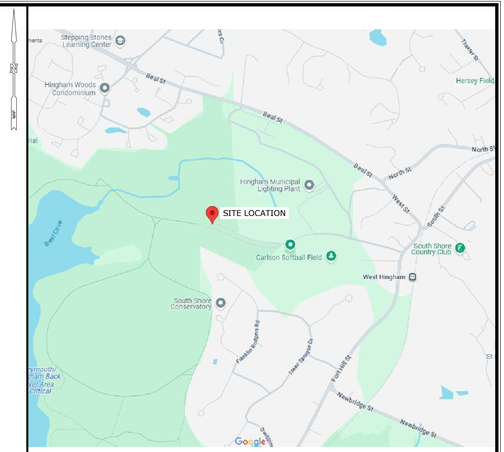
HINGHAM CENTER FOR ACTIVE LIVING

BARE COVE PARK DRIVE
HINGHAM, MA

REGULATORY SUBMISSION
DECEMBER 9, 2025





LOCATION MAP:

0' 500' 1000'
0 1/2" 1"
SCALE 1" = 1000'

PROJECT SITE VICINITY MAP:

0' 30' 60'
0 1/2" 1"
SCALE 1" = 60'

ZONING DATA TABLE		
ZONE: OFFICIAL AND OPEN SPACE DISTRICT **USE: III-A,3.5 PUBLIC BUILDING (HCAL) FOR PUBLIC RECREATION**		
	REQUIRED	PROVIDED
LOT AREA	N/A	472.26 ACRES*
FRONTAGE	20 FEET MINIMUM	3,372 FEET (ALONG BARE COVE PARK DRIVE)
FRONT YARD	40 FEET MINIMUM	187 FEET
REAR YARD	40 FEET MINIMUM	416 FEET
SIDE YARD	40 FEET MINIMUM	1740 FEET
GREEN YARD	20 FEET ALONG FRONTAGE	20 FEET**
BUILDING HEIGHT	35 FEET MAXIMUM	<35 FEET
BUILDING COVERAGE	10% MAXIMUM	0.25%
LANDSCAPED/UNDISTURBED AREA	15% MINIMUM	98.9%
*LOT AREA AND BOUNDARY BASED ON AVAILABLE HINGHAM GIS INFORMATION.		
**SIDEWALK AND DRIVEWAYS ARE PERMITTED WITHIN THE GREEN YARD. PARKING IS NOT PERMITTED OR PROVIDED WITHIN THE GREEN YARD.		

811
Know what's **below.**
Call before you dig.
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PARKING DATA TABLE	
REQUIRED PARKING	PROVIDED PARKING
140 SPACES*	140 SPACES (12 ACCESSIBLE/VAN SPACES, 128 STANDARD SPACES)
*FOR A RECREATION INSTITUTION: 1 SPACE / 3 PERSONS AT CAPACITY USE x 420 PERSON CAPACITY = 140 SPACES	

PREPARED BY:

SLR

67 HUNT STREET, SUITE 203-C
AGAWAM, MA
413.241.6920
SLRCONSULTING.COM

COMMONWEALTH OF MASSACHUSETTS
ANDREW GORALSKI
No. 59981
PROFESSIONAL ENGINEER

PREPARED FOR:

edmSTUDIOS
45 SOUTH MAIN STREET
UNIONVILLE CONNECTICUT 06085

LIST OF DRAWINGS

NO.	NAME	TITLE
01	--	TITLE SHEET
02	SHEET 1 OF 2	EXISTING CONDITIONS BARE COVE PARK DRIVE
03	SHEET 2 OF 2	EXISTING CONDITIONS BARE COVE PARK DRIVE
04	OSP	OVERALL SITE PLAN
05	RM	SITE PLAN - REMOVALS
06	LA	SITE PLAN - LAYOUT
07	SPM	SIGNAGE & PAVEMENT MARKING
08	LS	SITE PLAN - LANDSCAPING
09	GR	SITE PLAN - GRADING
10	UT	SITE PLAN - UTILITIES
11	SE-1	SEDIMENT AND EROSION CONTROL PLAN
12	SE-2	SEDIMENT AND EROSION CONTROL DETAILS AND SPECIFICATIONS
13	SD-1	SITE DETAILS
14	SD-2	SITE DETAILS
15	SD-3	SITE DETAILS
16	SD-4	SITE DETAILS
17	SD-5	SITE DETAILS
18	SD-6	SITE DETAILS
19	SD-7	SITE DETAILS
20	SD-8	SITE DETAILS
21	VH	VEHICLE TURNING MOVEMENT - HINGHAM FIRE TRUCK
22		PHOTOMETRIC PLAN BY APEX LIGHTING SOLUTIONS
23-26		ARCHITECTURAL PLANS BY EDM STUDIO

GENERAL NOTES:

1. THE EXISTING CONDITIONS INFORMATION SHOWN HEREON IS THE RESULT OF AN ON-THE-GROUND SURVEY PERFORMED BY CHA CONSULTING, INC. IN MAY OF 2025.

2. ALL DEED REFERENCES ARE TO PLYMOUTH COUNTY REGISTRY OF DEEDS UNLESS OTHERWISE NOTED.

3. LOCUS OWNER OF RECORD:

TOWN OF HINGHAM
DEED BOOK 3780 PAGE 230
MAP 77 LOT 1

4. TOPOGRAPHY, CONTOURS AND BENCHMARKS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). TEMPORARY BENCHMARKS, REFERENCED TO THE DATUM ARE INDICATED ON THE SURVEY.

IN THE EVENT THAT BENCHMARKS (TBM'S), ESTABLISHED FOR THIS PROJECT AND PUBLISHED ON THIS SURVEY ARE DESTROYED, NOT RECOVERABLE OR A DISCREPANCY IS FOUND, THE USER SHOULD NOTIFY THIS FIRM IN WRITING PRIOR TO COMMENCING OR CONTINUING ANY WORK.

5. THE PROJECT AREA IS LOCATED IN FLOOD ZONE "X" AREAS OF MINIMAL FLOODING, AS SHOWN ON FLOOD INSURANCE RATE MAP FOR PLYMOUTH COUNTY, COMMUNITY PANEL NUMBER 25023C0081K, EFFECTIVE DATE JULY 3, 2024.

6. THE LOCUS PARCEL IS LOCATED IN THE TOWN OF HINGHAM OFFICIAL & OPEN SPACE DISTRICT AS DEFINED BY THE TOWN OF HINGHAM ZONING MAP.
MINIMUM SETBACK REQUIREMENTS ARE:

FRONT SETBACK:...............40'
SIDE SETBACK:..................40'
REAR SETBACK:.................40'

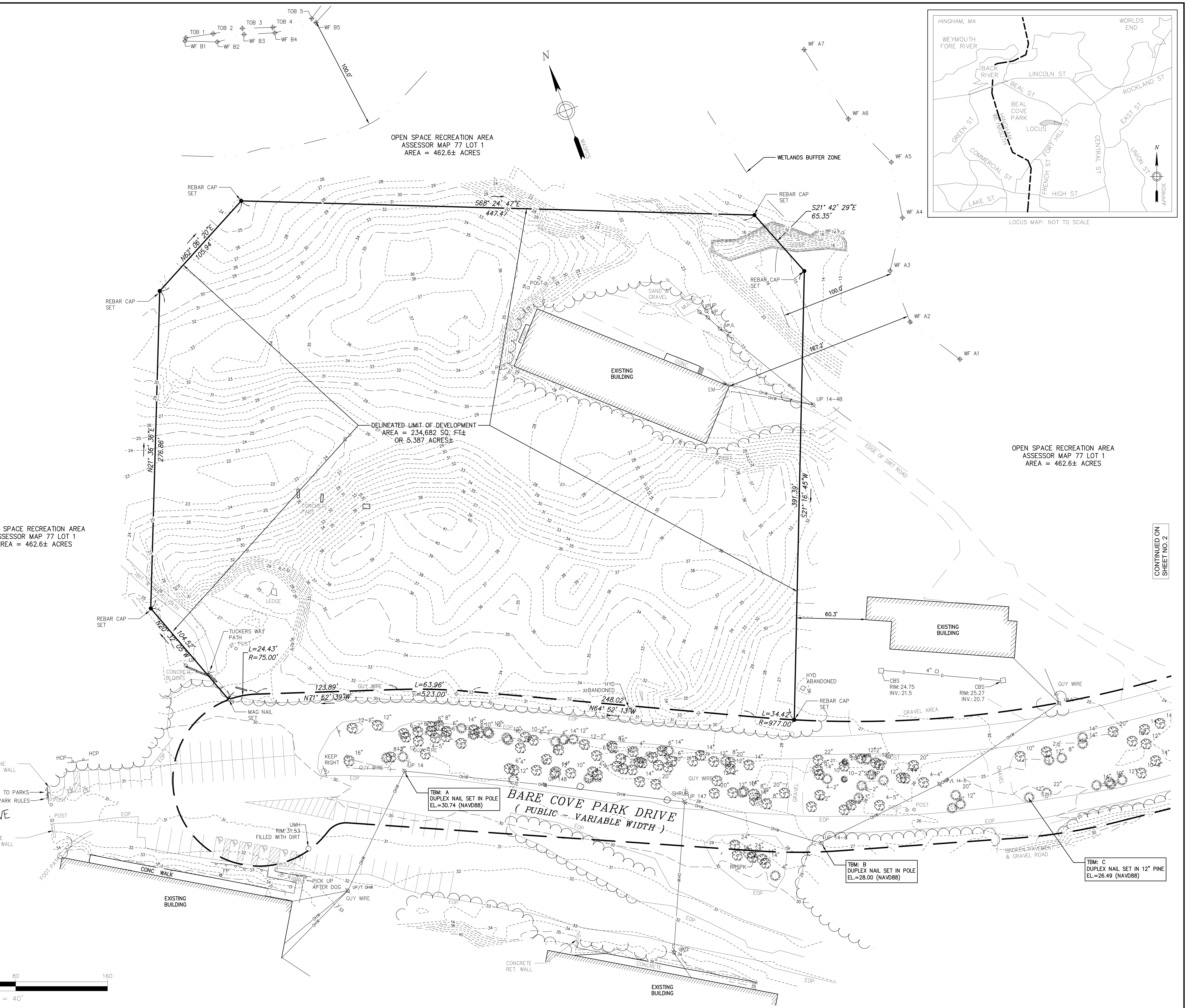
7. LOCATION OF SUBSURFACE UTILITIES SHOWN HEREON ARE APPROXIMATE AND ADDITIONAL UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THIS PLAN. LOCATIONS ARE COMPILED FROM UTILITY PLANS OF RECORD AND DIG-SAFE FIELD MARKINGS. RIM AND INVERT INFORMATION HAS BEEN COMPILED AND FIELD VERIFIED WHERE POSSIBLE. THIS INFORMATION IS NOT TO BE USED FOR CONSTRUCTION. PRIOR TO ANY CONSTRUCTION, CONTACT DIG-SAFE (811) TO FIELD VERIFY LOCATION OF ALL UTILITIES.

8. PLAN REFERENCES:

PLAN BOOK 58 PAGE 801
PLAN BOOK 61 PAGE 84

9. WETLAND FLAGS SHOWN HEREON ARE BASED ON FIELD LOCATIONS BY CHA CONSULTING, INC. IN MAY OF 2025.

WETLAND FLAGS WERE DELINEATED BY CHA CONSULTING, INC. SCIENTIST IN MAY, 2025.



40 0 20 40 80 160
SCALE: 1" = 40'

CONTINUED ON SHEET NO. 2

CHA
141 Longwater Drive, Suite 104
Norwell, MA 02061-1620
781-982-5400 . www.chasolutions.com

PREPARED FOR:

EDM STUDIO

C/O CHRIS WANTE

45 SOUTH MAIN STREET

UNIONVILLE, CT 06085

COMMONWEALTH OF MASSACHUSETTS
WILLIAM J. DORGAN
No. 49822
PROFESSIONAL LAND SURVEYOR

PROJECT TITLE:

EXISTING CONDITIONS

BARE COVE PARK DRIVE

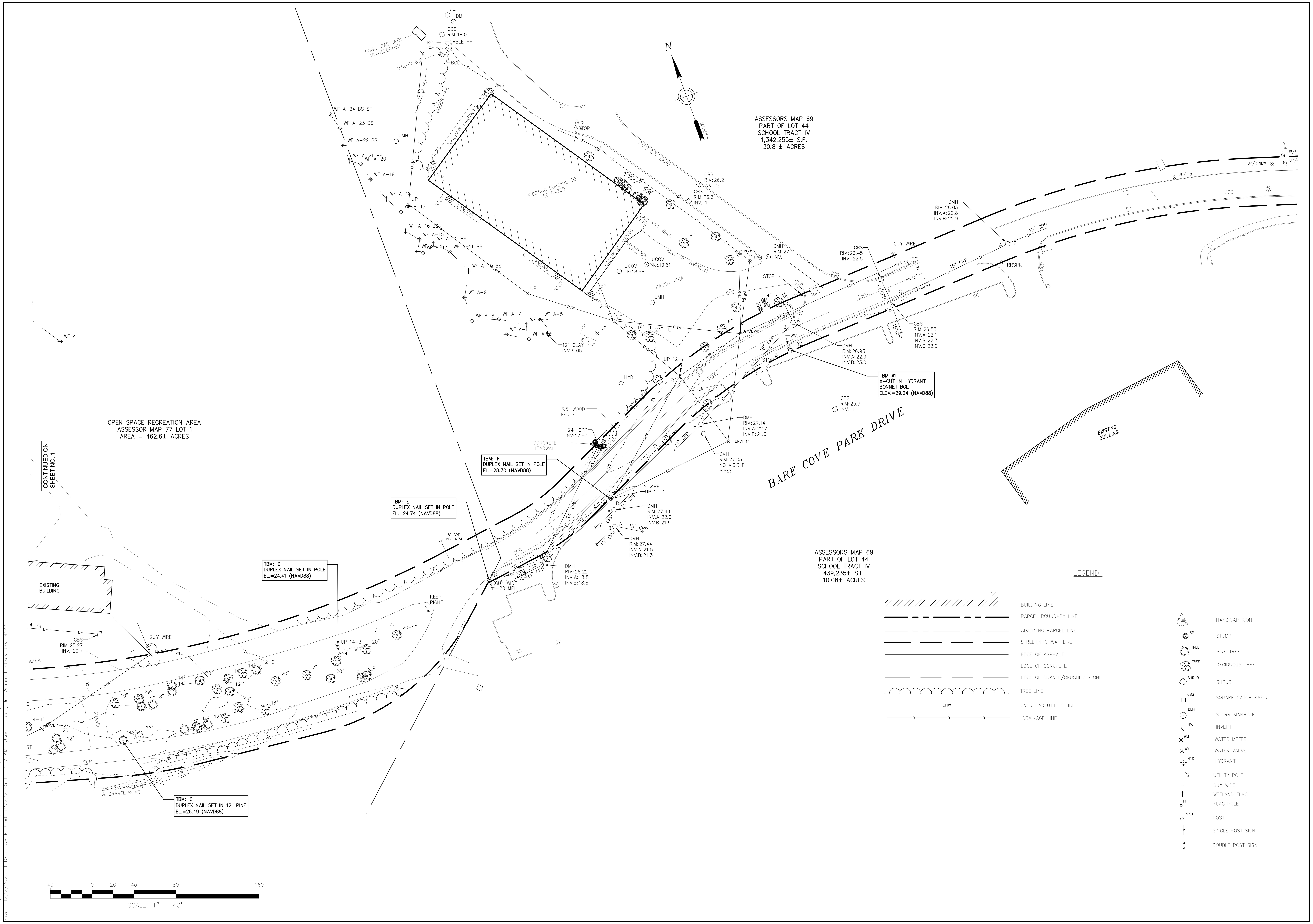
HINGHAM, MA

No.	Submittal / Revision	App'd.	By	Date
0	Issued For Review	WJD	MWC	06/06/2025
1	Issued Final	WJD	MWC	06/06/2025

Designed By:	Drawn By:	Checked By:
---	MWC	WJD
Issue Date:	Project No:	Scale:
6/06/2025	101751	1" = 40'

Drawing No.:

SHEET 1 OF 2



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WILLIAM J. DORGAN
No. 49622
PROFESSIONAL LAND SURVEYOR

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PROJECT TITLE:

EXISTING CONDITIONS

BARE COVE PARK DRIVE

HINGHAM, MA

1 Issued

No.	Submittal / Revision	App'd.	By	Date
0	Issued For Review	WJD	MWC	06/06/2025
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Designed By:	Drawn By:	Checked By:
---	MWC	WJD
Issue Date:	Project No:	Scale:
6/06/2025	101751	1" = 40'

Drawing No.:

SHEET 2 OF 2

N
W E
S
0' 200' 400'
0 1/2" 1"

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SLRCONSULTING.COM

DESCRIPTION	DATE	BY

OVERALL SITE PLAN

HINGHAM CENTER FOR ACTIVE LIVING

BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

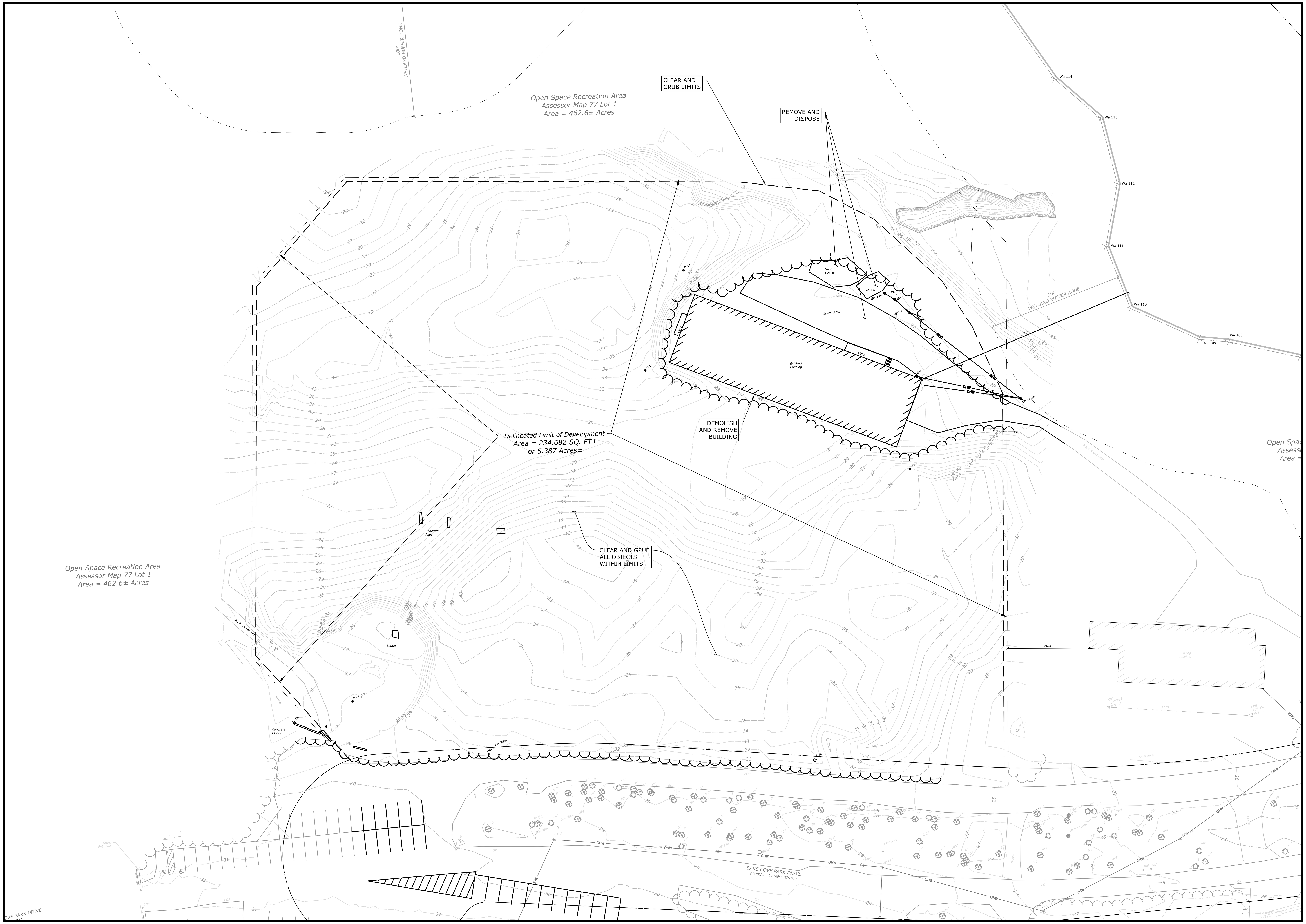
1"=400'
SCALE

DECEMBER 9, 2025
DATE

21840.00004
PROJECT NO.

04 OF 26
SHEET NO.

OSP
SHEET NAME



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DESCRIPTION	DATE	BY

SITE PLAN - REMOVALS

HINGHAM CENTER FOR ACTIVE LIVING

BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

SCALE: 1"=30'

DATE: DECEMBER 9, 2025

PROJECT NO.: 21840.00004

SHEET NO.: 05 OF 26

SHEET NAME: **RM**

SITE FEATURES - NARRATIVE

PARKING NOTES:
140 PARKING SPACES TOTAL:
-12 ACCESSIBLE/VAN SPACES
-4 EV ACCESSIBLE SPACES
-2 WITH EV CHARGER
-2 WITH CONDUIT CONNECTION
-128 STANDARD SPACES
-32 EV SPACES (25%)
-14 WITH EV CHARGER
-18 WITH CONDUIT CONNECTION

LAYOUT NOTES

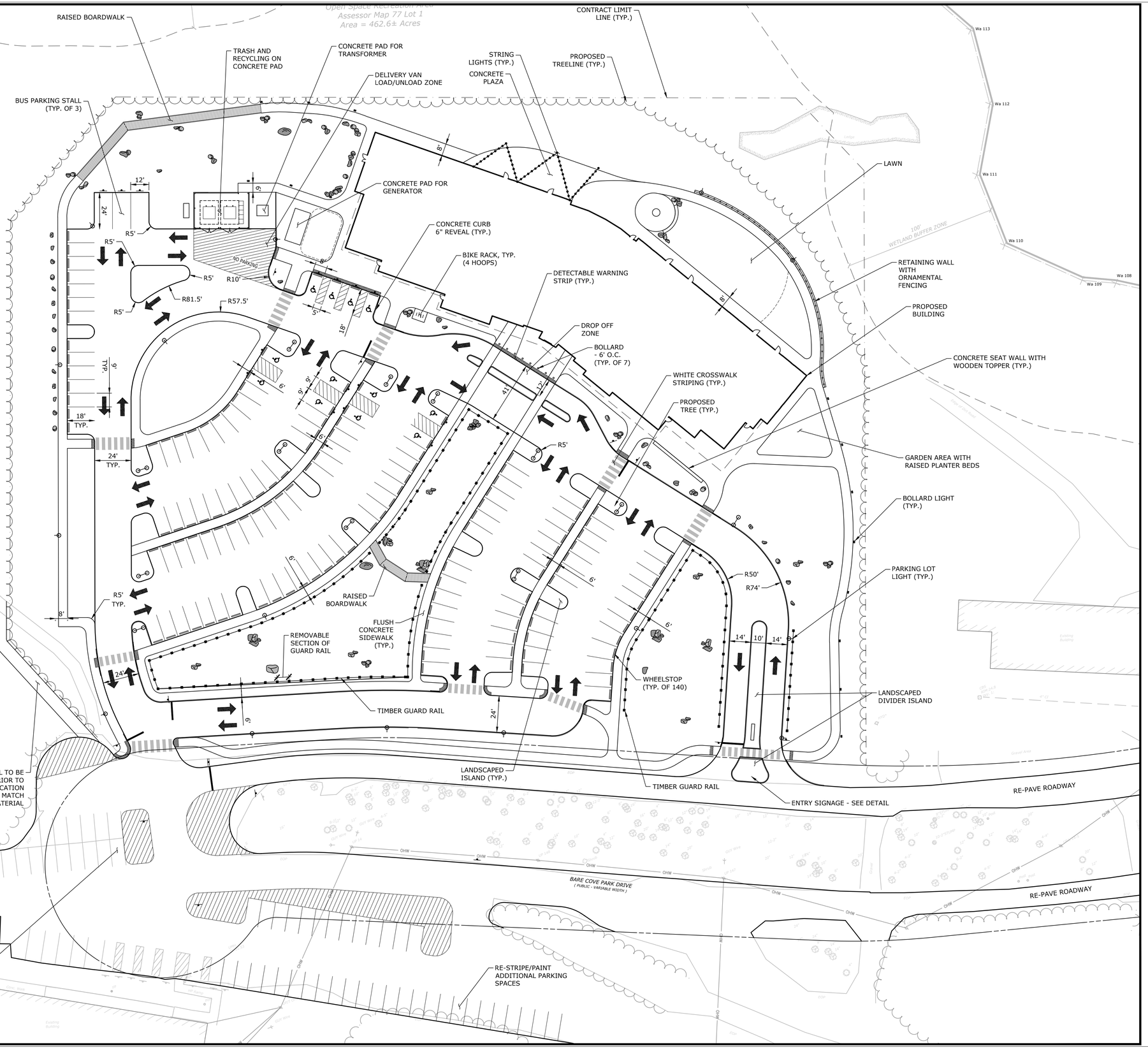
1. SLR INTERNATIONAL CORPORATION ACCEPTS NO RESPONSIBILITY FOR MAPS AND DATA THAT HAVE BEEN PREPARED AND SUPPLIED BY OTHERS.
2. CONCRETE SIDEWALKS, ENTRY AREAS, AND TERRACES SHALL INCORPORATE EXPANSION JOINTS, SCORE JOINTS, AND CONSTRUCTION JOINTS PER THE SPECIFICATIONS AND DETAILS, TYPICALLY NO MORE THAN 144 SQUARE FEET SHALL CONSTITUTE A CONTIGUOUS SLAB.
3. FOR DETAILED INFORMATION PERTAINING TO PROPOSED BUILDINGS AND ASSOCIATED ARCHITECTURAL WALLS REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
4. ALL PROPOSED CURBING SHALL BE CONCRETE UNLESS OTHERWISE NOTED.
5. IN ALL CASES IN WHICH PROPOSED ROADS, SIDEWALKS AND CURBING WILL BE TIED INTO EXISTING ROAD/SIDEWALK AND/OR CURBS THE CONTRACTOR SHALL MATCH THE LINE AND GRADE OF THE EXISTING SITE AMENITY.
6. SITE LIGHTS DEPICTED WITH IN LAWN/LANDSCAPE AREAS SHALL MAINTAIN A 4"-6" FOUNDATION REVEAL MAXIMUM, SITE LIGHTS DEPICTED IN PARKING LOTS SHALL HAVE A 3' EXPOSED HEIGHT CONCRETE FOUNDATION.
7. WHERE WALK AND PAVED DRIVE ARE SPECIFIED TO BE FLUSH, A FLUSH (FULL DEPTH) CONCRETE CURB SHALL ALSO BE INSTALLED.

EXISTING CONDITIONS LEGEND

- CONTRACT LIMIT LINE | C.L
- PROPERTY LINE
- ABUTTMENT LINE
- CURB
- EDGE OF PAVEMENT
- CHAINLINK FENCE
- TREE LINE
- WETLAND FLAG
- WETLAND
- OHW — OVERHEAD WIRE
- STORM PIPE
- G — GAS LINE
- UTILITY/LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- GUY POLE
- GUY WIRE
- HYDRANT
- SANITARY MANHOLE
- DRAINAGE MANHOLE
- WATER VALVE
- HEAD WALL
- CABLE HANDHOLD
- UTILITY BOX
- POST
- SIGN
- BOLLARD
- FLAGPOLE
- TREE
- SHRUB
- STONE

MATERIALS LEGEND

- DETECTABLE WARNING STRIP
- CURB (CONCRETE)
- TAPER CURB
- RETAINING WALL
- GATES
- TIMBER GUARDRAIL
- PARKING LOT LIGHT
- BOARDWALK
- SIGN
- CROSSWALK STRIPING
- STOP BAR
- PAVEMENT ARROW
- DOUBLE WHITE LINE
- BOULDERS



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DESCRIPTION	DATE	BY

SITE PLAN - LAYOUT
HINGHAM CENTER FOR ACTIVE LIVING
BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

1"=30'
SCALE

DECEMBER 9, 2025
DATE

21840.00004
PROJECT NO.

06 OF 26
SHEET NO.

LA
SHEET NAME

ELECTRIC VEHICLE CHARGING SPACES:

- STANDARD EV MARKED SPACES - 14 (7 LEVEL-TWO DUAL CHARGERS REQUIRED)
- ACCESSIBLE EV MARKED SPACE - 2 (2 LEVEL-TWO DUAL CHARGERS REQUIRED)
- STANDARD EV READY SPACES - 18
- ACCESSIBLE EV READY SPACES - 2

TOTAL: 9 LEVEL-TWO DUEL CHARGERS ARE REQUIRED TO BE INSTALLED, ALL CHARGERS SHOULD BE PROTECTED WITH 2 BOLLARDS EACH

MATERIALS LEGEND

- DETECTABLE WARNING STRIP
- CURB (CONCRETE)
- TAPER CURB
- RETAINING WALL
- GATES
- TIMBER GUARDRAIL
- PARKING LOT LIGHT
- BOARDWALK
- SIGN
- CROSSWALK STRIPING
- STOP BAR
- PAVEMENT ARROW
- DOUBLE WHITE LINE
- BOULDERS

EXISTING CONDITIONS LEGEND

- CONTRACT LIMIT LINE | C.L
- PROPERTY LINE
- ABUTTMENT LINE
- CURB
- EDGE OF PAVEMENT
- CHAINLINK FENCE
- TREE LINE
- WETLAND FLAG
- WETLAND
- OVERHEAD WIRE
- STORM PIPE
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- UTILITY POLE
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- GUY POLE
- GUY WIRE
- HYDRANT
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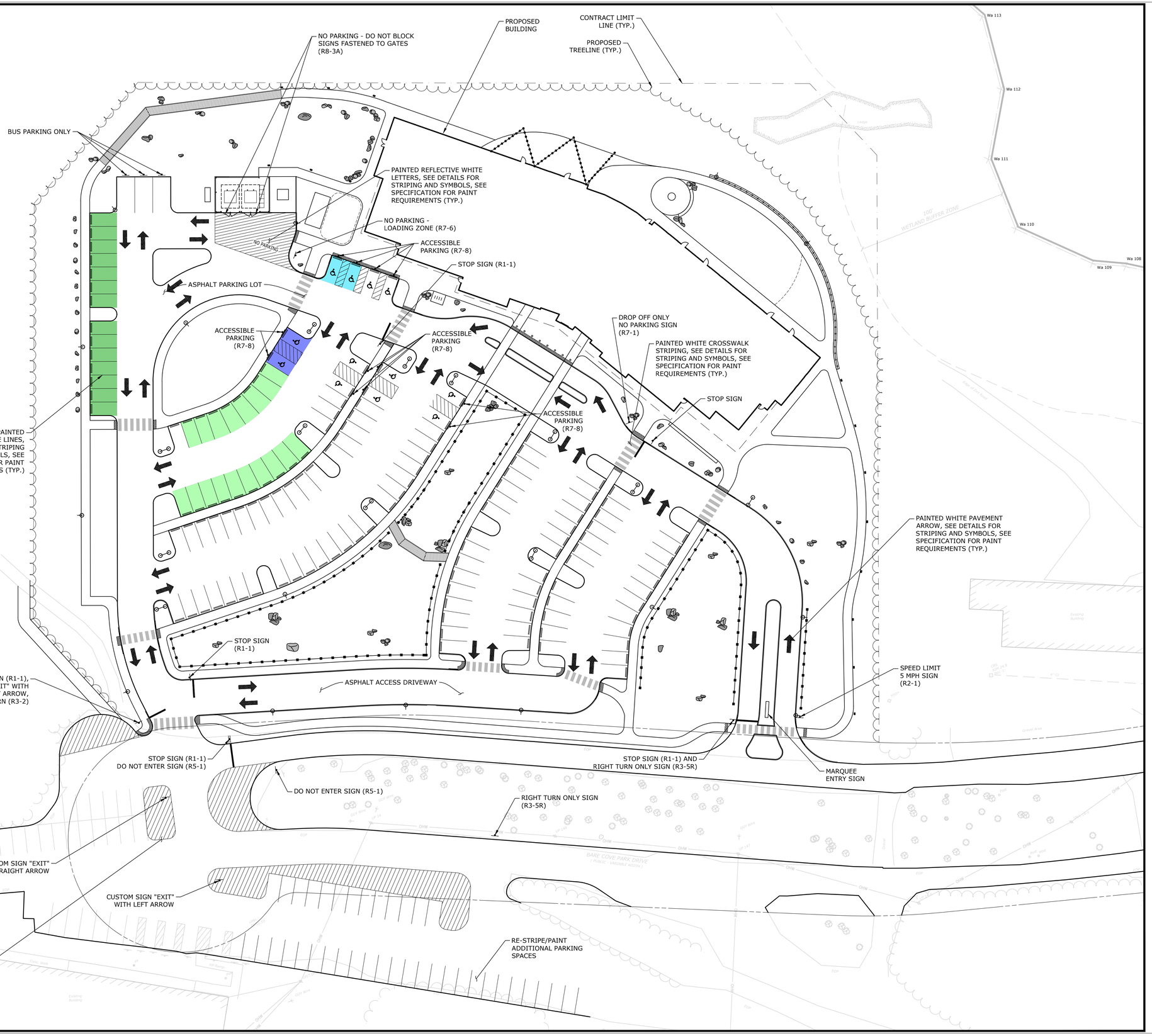

0' 15' 30'
0 1/2" 1"

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DESCRIPTION	DATE	BY

SIGNAGE & PAVEMENT MARKING

HINGHAM CENTER FOR ACTIVE LIVING

BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

1"=30'
SCALE

DECEMBER 9, 2025
DATE

21840.00004
PROJECT NO.

07 OF 26
SHEET NO.

SPM
SHEET NAME

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
EVERGREEN TREES					
JV	10	Juniperus virginiana	Eastern Redcedar	6`/7` HT.	B&B
PB	8	Picea mariana	Black Spruce	6`/7` HT.	B&B
PR	14	Picea rubens	Red Spruce	6`/7` HT.	B&B
ORNAMENTAL/FLOWERING TREES					
AM	36	Amelanchier canadensis	Shadblow Serviceberry Multitrunk	8`/10` HT.	B&B
CV	6	Chionanthus virginicus	White Fringetree	8`/10` HT.	B&B
CA	9	Cornus alternifolia	Pagoda Dogwood	8`/10` HT.	B&B
SHADE TREES					
AR	19	Acer rubrum	Red Maple	2.5"-3.5" CAL. B&B	
AO	25	Acer rubrum `October Glory`	October Glory Red Maple	2.5"-3.5" CAL. B&B	
BH	22	Betula nigra `Heritage`	Heritage River Birch	7`/8` HT. B&B	
CO	8	Carya ovata	Shagbark Hickory	2.5"-3.5" CAL. B&B	
LT	4	Liriodendron tulipifera	Tulip Tree	2.5"-3.5" CAL. B&B	
NS	24	Nyssa sylvatica	Sour Gum	2.5"-3.5" CAL. B&B	
QA	14	Quercus alba	White Oak	2.5"-3.5" CAL. B&B	
QB	19	Quercus bicolor	Swamp White Oak	2.5"-3.5" CAL. B&B	
QR	8	Quercus rubra	Red Oak	2.5"-3.5" CAL. B&B	

SHRUBS

⊙	110	Clethra alnifolia	Summersweet
✿	115	Cornus sericea	Red Twig Dogwood
✿	110	Ilex verticillata	Winterberry
⊙	100	Myrica pensylvanica	Northern Bayberry
⊙	50	Viburnum dentatum	Arrowwood Viburnum

SEED MIX SCHEDULE

BASIN BOTTOM — 1,698 sf
NEW ENGLAND WETMIX (WETLAND SEED MIX)
BY NEW ENGLAND WETLAND PLANTS

BASIN SLOPES — 21,341 sf
NEW ENGLAND EROSION CONTROL/RESTORATION MIX
BY NEW ENGLAND WETLAND PLANTS

PERMANENT VEGETATIVE COVER — 26,496 sf
NEW ENGLAND CONSERVATION/WILDLIFE MIX
BY NEW ENGLAND WETLAND PLANTS

LANDSCAPING NARRATIVE

LANDSCAPING: ALL LANDSCAPING SHALL BE NATIVE
SHADE TREES: 130
SIZE: 3" CALIPER
VARIETIES: MAPLE, OAK, BIRCH, HICKORY, TUPELO
SPECIMEN TREES: 10
SIZE: 6-8" CALIPER
VARIETIES, OAK, MAPLE, TULIP
EVERGREEN TREES: 30
SIZE: 8'-10' HEIGHT
VARIETIES: BLACK SPRUCE, RED SPRUCE, EASTERN REDCEDAR
FLOWERING TREES: 45
SIZE: 8'-10' HEIGHT
VARIETIES: DOGWOOD, SHADBLOW, CORNUS
SHRUBS: 500
SIZE: #5 OR GREATER
VARIETIES: CLETHRA, CORNUS, VIBURNUM, MYRICA, ILEX
PERENNIALS: 300
SIZE: #1 OR GREATER
VARIETIES: RUDBECKIA, ECHINACEA, VERONIA
GRASSES: 200
SIZE: #2 OR GREATER
VARIETIES: SWITCHGRASS, CAREX, SCHIZACHYRIUM

PLANTING NOTES

1. SEED ALL DISTURBED AREAS TO LAWN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE A 6" MINIMUM DEPTH OF SCREENED TOPSOIL, AS SPECIFIED, FOR ALL LAWN AREAS. AS NOTED ON THE DETAILS, SUBGRADE BENEATH PROPOSED LAWN AREAS SHALL BE LOOSENED OR SCARIFIED TO A MINIMUM DEPTH OF 24 INCHES.
2. ALL PLANT MATERIALS SHALL CARRY A FULL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, TO INCLUDE PROMPT TREATMENT OR REMOVAL AND REPLACEMENT OF ANY PLANTS FOUND TO BE IN AN UNHEALTHY CONDITION BY THE LANDSCAPE ARCHITECT. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST.
3. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND SHALL CONTINUE UNTIL ACCEPTANCE BY THE LANDSCAPE ARCHITECT AT THE END OF THE WARRANTY PERIOD. MAINTENANCE SHALL INCLUDE WATERING, MULCHING, TIGHTENING & REPLACING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTING PLANTS TO PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.
4. TAKE NOTE TO PROTECT ROOT ZONES OF EXISTING TREES ROOT ZONES DURING CONSTRUCTION AS SHOWN ON PLANS.

MATERIALS LEGEND

- DETECTABLE WARNING STRIP
- CURB (CONCRETE)
- TAPER CURB
- RETAINING WALL
- GATES
- TIMBER GUARDRAIL
- PARKING LOT LIGHT
- BOARDWALK
- SIGN
- CROSSWALK STRIPING
- STOP BAR
- PAVEMENT ARROW
- DOUBLE WHITE LINE
- BOULDERS

Open Space Recreation Area
Assessor Map 77 Lot 1
Area = 462.6± Acres

LAWN
NO PARKING
GARDEN AREA WITH RAISED PLANTER BEDS
100' WETLAND BUFFER ZONE
Wa 112
Wa 111
Wa 110
Wa 109
Wa 108
Ledge
BARE COVE PARK DRIVE
(PUBLIC - VARIABLE WIDTH)
Stone Ret. Wall
Post
Post

EXISTING CONDITIONS LEGEND

- CONTRACT LIMIT LINE | C.L
- PROPERTY LINE
- ABUTTMENT LINE
- CURB
- EDGE OF PAVEMENT
- CHAINLINK FENCE
- TREE LINE
- WETLAND FLAG
- WETLAND
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- TREE
- SHRUB
- STONE

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AGAWAM, MA
413.241.6520
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DESCRIPTION | DATE | BY

SITE PLAN - LANDSCAPING
HINGHAM CENTER FOR ACTIVE LIVING
BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

1"=30'
SCALE

DECEMBER 9, 2025
DATE

21840.00004
PROJECT NO.

08 OF 26
SHEET NO.

LS
SHEET NAME

EXISTING CONDITIONS LEGEND

- CONTRACT LIMIT LINE | C.L.L
- PROPERTY LINE
- ABUTTMENT LINE
- CURB
- EDGE OF PAVEMENT
- CHAINLINK FENCE
- TREE LINE
- WETLAND FLAG
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- SHRUB
- STONE

SITE EARTHWORK

TOTAL CUT: ±18,100 CUBIC YARDS
TOTAL FILL: ±12,800 CUBIC YARDS
NET TOTAL: ±5,300 CUBIC YARDS (CUT)

Open Space Recreation Area
Assessor Map 77 Lot 1
Area = 462.6± Acres

100' WETLAND BUFFER ZONE

F.F.E.=32.75

NO PARKING

TC 32.90
BC 32.40

BARE COVE PARK DRIVE
(PUBLIC - VARIABLE WIDTH)

BARE COVE PARK DRIVE
(PRIVATE)

Wa 114
Wa 113
Wa 112
Wa 111
Wa 110
Wa 109
Wa 108

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AGAWAM, MA
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DESCRIPTION	DATE	BY

SITE PLAN - GRADING
HINGHAM CENTER FOR ACTIVE LIVING
BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

1"=30'
SCALE

DECEMBER 9, 2025
DATE

21840.00004
PROJECT NO.

09 OF 26
SHEET NO.

GR
SHEET NAME

STORM WATER MAINTENANCE PROGRAM

UPON SITE DEVELOPMENT, THERE WILL BE A NEED TO PERIODICALLY MAINTAIN STORMWATER SYSTEMS ON THE PROPERTY. THE STORMWATER SYSTEM CONSISTS OF PIPING AND CATCH BASINS.

IN ORDER TO ENSURE OPTIMAL PERFORMANCE OF THE SYSTEM, THE FOLLOWING STORMWATER MAINTENANCE PROGRAM HAS BEEN ESTABLISHED. THE PROPERTY OWNER WILL BE RESPONSIBLE FOR IMPLEMENTATION OF THIS PROGRAM. A LOG OF ALL INSPECTIONS, CLEANING AND REPAIRS SHALL BE MAINTAINED BY THE PROPERTY OWNER AND BE AVAILABLE FOR REVIEW.

A. CATCH BASINS/YARD DRAINS

CATCH BASINS ARE DESIGNED WITH 4-FOOT MINIMUM DEPTH SUMPS FOR THE PURPOSE OF COLLECTING COARSE SEDIMENT. ALL CATCH BASINS SHOULD BE INSPECTED TWO TIMES PER YEAR, TYPICALLY WHEN THE SITE IS SWEPT IN THE SPRING AFTER WINTER SANDING AND IN THE FALL AFTER ALL THE LEAVES HAVE FALLEN. SITE SWEEPING SHALL BE PROVIDED BETWEEN APRIL 15 AND MAY 15 EACH SPRING.

SEDIMENT SHOULD BE REMOVED WHEN IT EXTENDS TO WITHIN 6 INCHES OF THE OUTLET PIPE INVERT OR NOT LESS THAN ONCE PER YEAR. CLEANOUT WITH A VACUUM TRUCK IS GENERALLY THE BEST AND MOST CONVENIENT METHOD. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS.

B. PAVEMENT SWEEPING

THE PARKING AREA AND ROADWAY SHALL BE SWEPT ANNUALLY. SWEEPING SHOULD OCCUR IN THE SPRING AFTER WINTER SANDING, BETWEEN APRIL 15 AND MAY 15. SALT ALTERNATIVES SHALL BE USED DURING WINTER MONTHS FOR DEICING.

C. STORMWATER BASINS/RAIN GARDENS

MOWING: THE BERM OUTSIDE, SIDE SLOPES, AND EMBANKMENT OF STORMWATER POND MUST BE MOWED AT LEAST ONCE PER YEAR TO DISCOURAGE WOODY GROWTH AND CONTROL WEEDS.

INSPECTIONS: BASIN SHOULD BE INSPECTED TWICE PER YEAR(SPRING AND FALL) TO ENSURE THAT THE STRUCTURE OPERATES IN THE MANNER ORIGINALLY INTENDED. WHEN POSSIBLE, INSPECTIONS SHOULD BE CONDUCTED DURING WET WEATHER TO DETERMINE IF THE BASIN IS MEETING THE TARGETED DETENTION TIMES PER APPROVED DESIGN. IN PARTICULAR, THE OUTLET CONTROL DEVICE SHOULD BE REGULARLY INSPECTED FOR EVIDENCE OF CLOGGING OR, CONVERSELY, FOR TOO RAPID A RELEASE, AND THE FLOW PATH SHOULD BE CHECKED FOR EROSION PROBLEMS. OTHER PROBLEMS THAT SHOULD BE CHECKED FOR INCLUDE SUBSIDENCE, OUTLET WATER TURBIDITY, BANK/BED/OUTLET EROSION, CRACKING, OR TREE GROWTH ON THE EMBANKMENT; THE ACCUMULATION OF SEDIMENT AROUND THE OUTLET; THE ADEQUACY OF UPSTREAM/DOWNSTREAM CHANNEL EROSION CONTROL MEASURES; AND MODIFICATIONS TO THE BASIN OR ITS CONTRIBUTING WATERSHED THAT MAY INFLUENCE BASIN PERFORMANCE. INSPECTIONS SHOULD BE CARRIED OUT WITH DESIGN PLANS IN HAND.

DEBRIS AND LITTER REMOVAL: DEBRIS AND LITTER WILL ACCUMULATE NEAR THE OUTLET CONTROL DEVICEAND SHOULD BE REMOVED DURING REGULAR INSPECTION AND/OR MOWING OPERATIONS. PARTICULAR ATTENTION SHOULD BE PAID TO FLOATABLE DEBRIS THAT COULD EVENTUALLY CLOG THE CONTROL DEVICE OR RISER.

SEDIMENT REMOVAL: WHEN PROPERLY DESIGNED, DETENTION/WATER QUALITY BASINS WILL ACCUMULATE SEDIMENT OVER TIME. HOWEVER, MOST OF THE SEDIMENT WILL BE TRAPPED IN THE SEDIMENT CHAMBERS AND CATCH BASIN SUMP UNITS BEFORE REACHING THE BASIN. THE REMAINDER WILL ACCUMULATE IN THE STORMWATER POND. ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE BASIN EVERY 5 YEARS, AFTER 3" OF THE SEDIMENT STORAGE CAPACITY IN THE FOREBAY HAS BEEN FILLED, AFTER 4 INCHES OF SEDIMENT HAS ACCUMULATED IN THE MAIN PORTION OF THE BASIN, OR WHEN SIGNIFICANT ALGAL GROWTH IS OBSERVED. A PERMANENT MEASURING DEVICE SHALL BE INSTALLED IN THE MIDDLE OF THE FOREBAY AND IN THE MAIN PORTION OF THE BASIN. THE MARKER SHALL DELINEATE INCHES UP FROM THE BOTTOM OF THE BASIN SO THE DEPTH OF SEDIMENT CAN EASILY BE MEASURED. MORE FREQUENT SPOT CLEANOUTS MAY BE NEEDED AROUND THE OUTLET CONTROL DEVICE OR THE SEDIMENT FOREBAY.

SEDIMENT REMOVAL OPERATIONS ARE RELATIVELY SIMPLE. FRONT-END LOADERS, BACKHOES, OR VACUUM TRUCKS CAN BE USED TO REMOVE THE ACCUMULATED SEDIMENT FOLLOWED BY MANUAL REMOVAL OF SEDIMENT DEPOSITED AROUND THE OUTLET CONTROL DEVICE. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS. THE DISTURBED AREA SHOULD BE IMMEDIATELY SEEDED WITH APPROPRIATE GRASS SEED AND MULCHED WITH HAY AFTER REMOVAL OPERATIONS ARE COMPLETED TO PREVENT THE OUTLET CONTROL DEVICE FROM CLOGGING.

D. UNDERGROUND DETENTION SYSTEMS

UNDERGROUND DETENTION SYSTEMS SHALL BE INSPECTED QUARTERLY AND SEDIMENT SHALL BE REMOVED AS NEEDED TO ENSURE PROPER FUNCTIONING OF STRUCTURES. AREAS OF DISTURBANCE THAT MAY BE AS A RESULT OF CLEANING SHALL BE SEEDED AND PLANTED IN ACCORDANCE WITH THE ORIGINAL PLANTING PLAN. THESE STRUCTURES WILL BE MAINTAINED YEARLY, OR MORE FREQUENTLY AS REQUIRED. WASTE MATERIAL WILL BE PROPERLY DISPOSED OF OFF-SITE.

E. PROPRIETARY HYDRODYNAMIC SEPARATOR

BEFORE BEING DISCHARGED TO THE STORMWATE BASIN, STORMWATER RUNOFF FROM THE ROADWAY AND BUILDING WILL BE DIRECTED TO A HYDRODYNAMIC SEPARATOR. THIS STRUCTURE WILL REMOVE SUSPENDED SOLIDS, DEBRIS AND FLOATABLES CONSTITUENTS FROM STORMWATER. OIL, SCUM, AND SEDIMENT WILL EVENTUALLY ACCUMULATE AND CAN BE REMOVED THROUGH A MANHOLE LOCATED AT THE TOP OF THE SEPARATOR. THIS STRUCTURE WILL BE MAINTAINED YEARLY, OR MORE FREQUENTLY AS REQUIRED. THE UNIT SHOULD BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. WASTE MATERIAL WILL BE PROPERLY DISPOSED OF OFF THE SITE.

F. LAWN AND VEGETATED AREAS

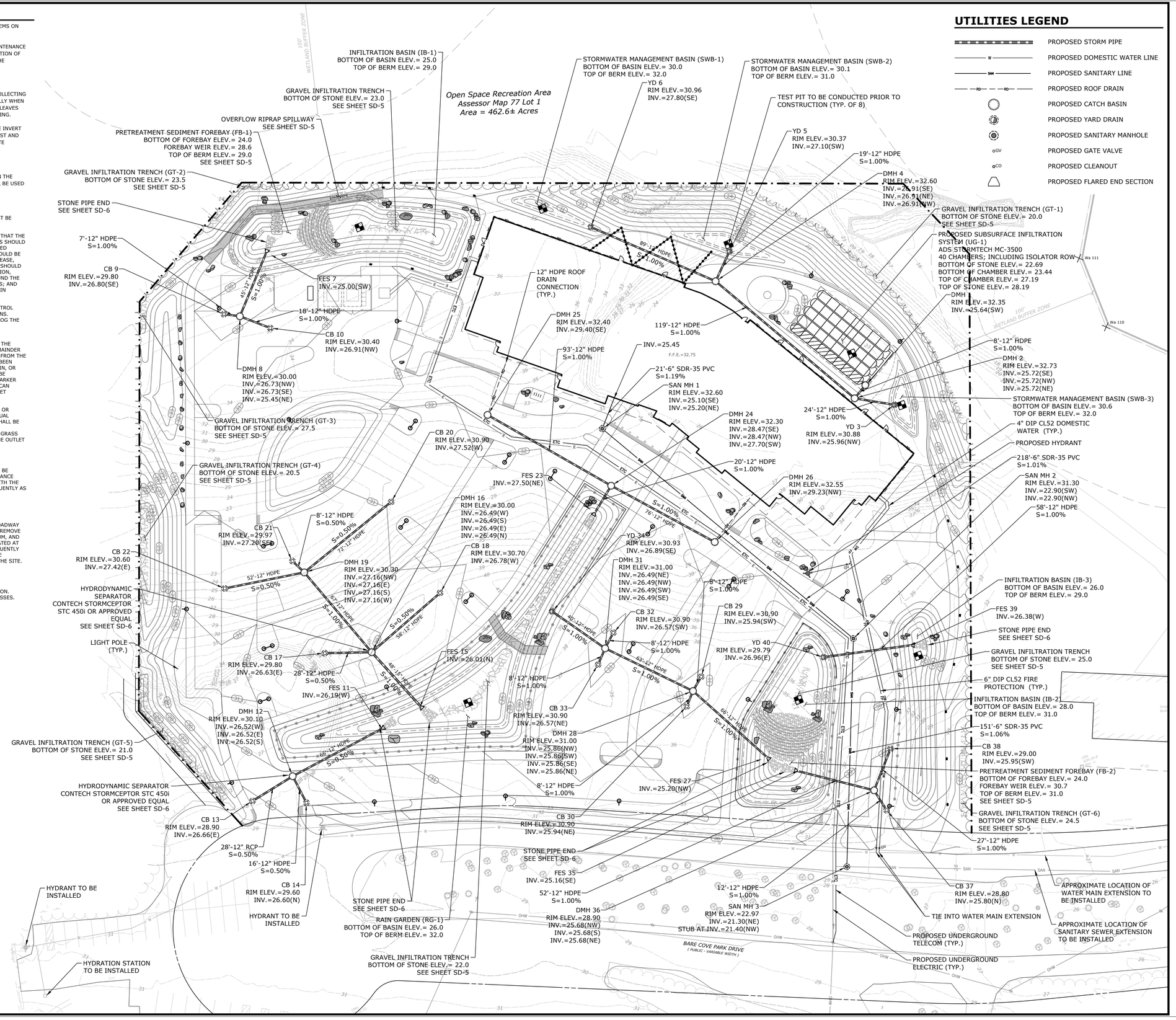
VEGETATED COVER SHALL BE MAINTAINED ON ALL EARTH SURFACES TO MINIMIZE SOIL EROSION. USE IF FERTILIZER SHOULD BE MINIMIZED AND APPLIED USING PRUDENT APPLICATION PROCESSES.

EXISTING CONDITIONS LEGEND

- CONTRACT LIMIT LINE | C.L.L
- PROPERTY LINE
- ABUTTMENT LINE
- CURB
- EDGE OF PAVEMENT
- CHAINLINK FENCE
- TREE LINE
- WETLAND FLAG (WF A4)
- WETLAND
- OVERHEAD WIRE (OHW)
- STORM PIPE
- GAS LINE (G)
- UTILITY/LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- GUY POLE
- GUY WIRE
- HYDRANT
- SANITARY MANHOLE
- DRAINAGE MANHOLE
- WATER VALVE
- HEAD WALL
- CABLE HANDHOLD
- UTILITY BOX
- POST
- SIGN
- BOLLARD
- FLAGPOLE
- TREE
- SHRUB
- STONE

UTILITIES LEGEND

- PROPOSED STORM PIPE
- PROPOSED DOMESTIC WATER LINE (W)
- PROPOSED SANITARY LINE (SAN)
- PROPOSED ROOF DRAIN (RD)
- PROPOSED CATCH BASIN
- PROPOSED YARD DRAIN
- PROPOSED SANITARY MANHOLE
- PROPOSED GATE VALVE (GV)
- PROPOSED CLEANOUT (CO)
- PROPOSED FLARED END SECTION



SLR
67 HUNT STREET, SUITE 203-C
AGAWAM, MA
413.241.6520
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE PLAN - UTILITIES
HINGHAM CENTER FOR ACTIVE LIVING
BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

1"=30'
SCALE
DECEMBER 9, 2025
DATE
21840.00004
PROJECT NO.
10 OF 26
SHEET NO.
UT
SHEET NAME

SEDIMENT & EROSION CONTROL LEGEND

- CONSTRUCTION ENTRANCE PAD
- COMPOST FILTER TUBE
- INLET PROTECTION
- SNOW STORAGE LOCATIONS
- EROSION CONTROL BLANKET

ABBREVIATIONS

CE	CONSTRUCTION ENTRANCE
TYP.	TYPICAL
CFT	COMPOST FILTER TUBE
IP	INLET PROTECTION
ECB	EROSION CONTROL BLANKET

ANTICIPATED CONSTRUCTION SCHEDULE

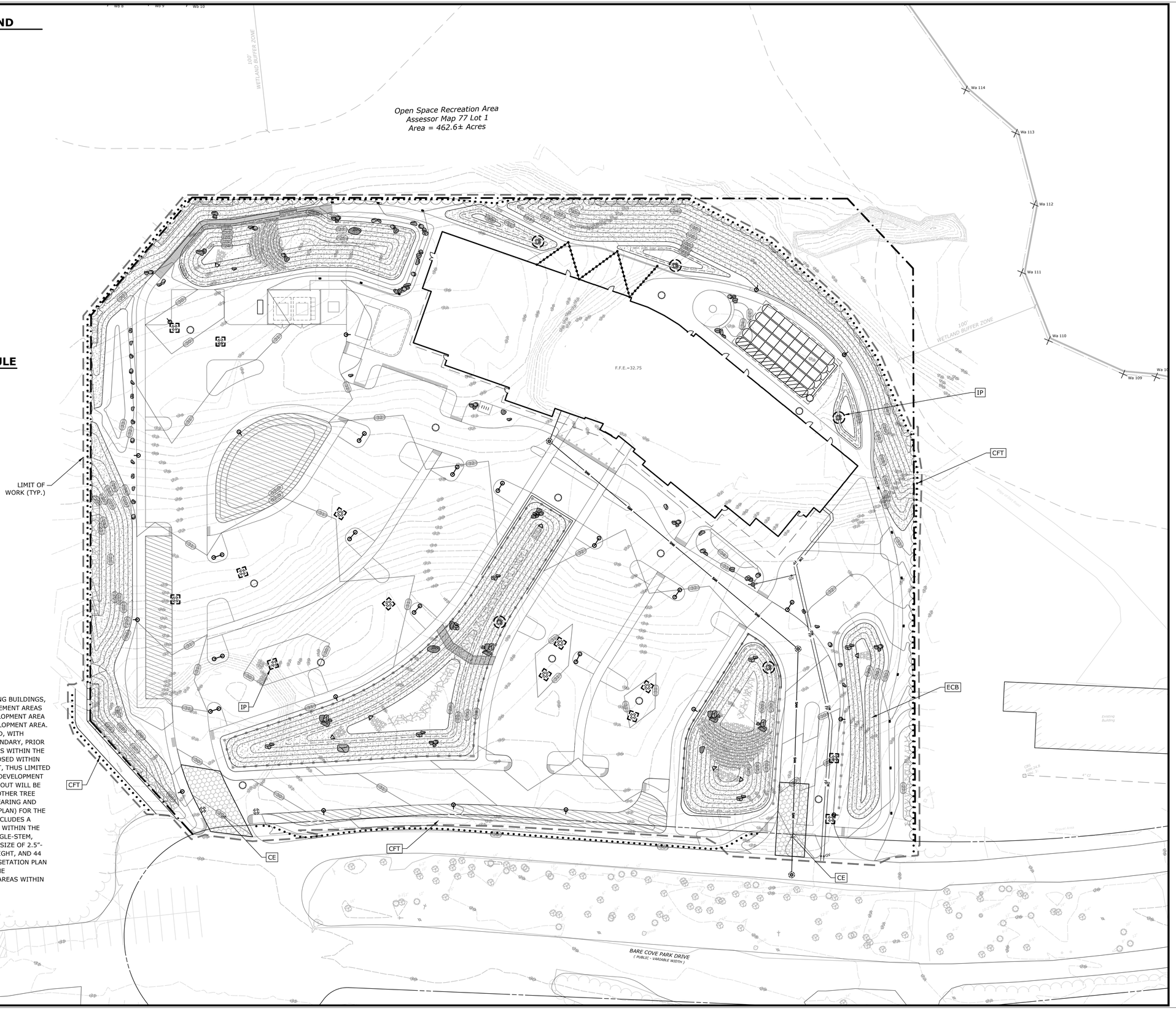
ANTICIPATED PROJECT START: JUNE 2026
1. INSTALL SEDIMENT AND EROSION CONTROLS.
2. CLEAR AND GRUB SITE (1 MONTH)
3. MASS EARTHWORK/GRADING (1-3 MONTHS)
4. BEGIN UNDERGROUND UTILITY INSTALLATION (1-3 MONTHS)
5. BEGIN BUILDING FOUNDATION (1 MONTH)
6. GRADING AND PAVING (1-3 MONTHS)
7. BUILDING CONSTRUCTION
8. FINE GRADING AND LANDSCAPING (1-2 MONTHS)
9. ONCE SITE HAS REACHED FINAL STABILIZATION, SEDIMENT AND EROSION CONTROLS CAN BE REMOVED

ANTICIPATED PROJECT CLOSE-OUT: SEPTEMBER/OCTOBER 2027

*MULTIPLE ACTIVITIES WILL BE UNDER CONSTRUCTION CONCURRENTLY

Open Space Recreation Area
Assessor Map 77 Lot 1
Area = 462.6± Acres

<u>TREE PROTECTION & MITIGATION:</u> THE PROPOSED DEVELOPMENT INCLUDING BUILDINGS, DRIVEWAYS, PARKING , WALKWAYS, UTILITIES, AND STORMWATER MANAGEMENT AREAS HAS BEEN EFFICIENTLY DESIGNED TO FIT WITHIN THE ESTABLISHED DEVELOPMENT AREA FOR THE PROJECT, NO CLEARING WITH TAKE PLACE OUTSIDE OF THE DEVELOPMENT AREA. THE LIMIT OF CLEARING WILL BE SURVEYED AND STAKED OUT IN THE FIELD, WITH SEDIMENTATION AND EROSION CONTROL FENCING INSTALLED AT THE BOUNDARY, PRIOR TO ANY REMOVAL OF VEGETATION OR CLEARING AND GRUBBING ACTIVITIES WITHIN THE DEVELOPMENT AREA. THERE IS A LIMITED AMOUNT OF EXCAVATION PROPOSED WITHIN THE DEVELOPMENT AREA ALONG THE LIMIT OF CLEARING FOR THE PROJECT, THUS LIMITED IMPACTS TO ANY VEGETATION (I.E. TREES) TO REMAIN THAT BORDER THE DEVELOPMENT AREA. ANY TREES ALONG THE LIMITS OF CLEARING AT THE TIME OF STAKEOUT WILL BE RE-EVALUATED FOR OVERALL HEALTH AND POTENTIAL ROOT PRUNING OR OTHER TREE PROTECTION MITIGATIVE MEASURES PRIOR TO THE INITIATION OF ANY CLEARING AND GRUBBING ACTIVITIES. THE PROPOSED REVEGETATION PLAN (LANDSCAPE PLAN) FOR THE DEVELOPMENT AREA UTILIZES A NATIVE PLANT MATERIAL PALETTE THAT INCLUDES A COMBINATION OF 219 DECIDUOUS AND EVERGREEN TREES TO BE PLANTED WITHIN THE DEVELOPMENT AREA. 143 OF THE PROPOSED TREE PLANTINGS WILL BE SINGLE-STEM, NATIVE, DECIDUOUS HARDWOOD VARIETIES WITH INSTALLATION CALIPER SIZE OF 2.5"-3.5" AND 32 EVERGREEN TREE WITH AN INSTALLATION HEIGHT OF 6'-7' HEIGHT, AND 44 FLOWERING TREES (MULTI-STEM AND SINGLE-STEM) THE PROPOSED REVEGETATION PLAN FOCUSES ON ESTABLISHING A NATIVE BUFFER PLANTING ZONE AROUND THE DEVELOPMENT AREA AND NATURALIZED LANDSCAPE AND WATER QUALITY AREAS WITHIN THE DEVELOPMENT AREA.



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SEDIMENT AND EROSION CONTROL PLAN
HINGHAM CENTER FOR ACTIVE LIVING
BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

SCALE	1"=30'
DATE	DECEMBER 9, 2025
PROJECT NO.	21840.00004
SHEET NO.	11 OF 26
SHEET NAME	SE-1

SEDIMENT & EROSION CONTROL SPECIFICATIONS

GENERAL:

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATER BODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATER BODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

LAND GRADING:

THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

1. THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
2. THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
3. THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO TWO VERTICAL (1:2).
4. PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
5. NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE INTO ADJACENT WETLANDS, WATERCOURSES, OR WATER BODIES.
6. PRIOR TO ANY RE-GRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

TOPSOILING:

TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.

UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.

REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS.

APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.

MATERIAL:

1. TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
3. TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF STONES (OVER 1" IN DIAMETER), LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS. IT SHOULD BE FREE OF ROOTS OR RHIZOMES SUCH AS THISTLE, NUTGRASS, AND QUACKGRASS.
4. AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL.
5. SOLUBLE SALT CONTENT OF OVER 500 PARTS PER MILLION (PPM) IS LESS SUITABLE. AVOID TIDAL MARSH SOILS BECAUSE OF HIGH SALT CONTENT AND SULFUR ACIDITY.
6. THE pH SHOULD BE MORE THAN 6.0. IF LESS, ADD LIME TO INCREASE pH TO AN ACCEPTABLE LEVEL.

APPLICATION:

1. VOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST SIX INCHES (6"), OR TO THE DEPTH SHOWN ON THE LANDSCAPING PLANS.

TEMPORARY VEGETATIVE COVER:

TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT, AREAS WHERE FINAL GRADING HAS BEEN COMPLETED, AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 12 MONTHS. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. APPLY LIME ACCORDING TO SOIL TEST OR AT A RATE OF ONE (1) TON OF GROUND DOLOMITIC LIMESTONE PER ACRE (5 LBS. PER 100 SQ. FT.).
4. APPLY FERTILIZER ACCORDING TO SOIL TEST OR AT THE RATE OF 30 LBS. OF 10-10-10 PER ACRE (7 LBS. PER 1,000 SQ. FT.) AND SECOND APPLICATION OF 200 LBS. OF 10-10-10- (5 LBS. PER 1,000 SQ. FT.) WHEN GRASS IS FOUR INCHES (4") TO SIX INCHES (6") HIGH. APPLY ONLY WHEN GRASS IS DRY.
5. UNLESS HYDROSEEDED, WORK IN LIME AND FERTILIZER TO A DEPTH OF FOUR (4") INCHES USING A DISK OR ANY SUITABLE EQUIPMENT.
6. TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

ESTABLISHMENT:

7. SELECT APPROPRIATE SPECIES FOR THE SITUATION. NOTE RATES AND SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
8. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
9. UNLESS HYDROSEEDED, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL USING SUITABLE EQUIPMENT.
10. MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW.) APPLY STRAW MULCH AND ANCHOR TO SLOPES GREATER THAN 3% OR WHERE CONCENTRATED FLOW WILL OCCUR.

EROSION CHECKS

GENERAL:

TEMPORARY PERVIOUS BARRIERS USING BALES OF STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

CONSTRUCTION:

BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.

EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.

BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.

GEOTEXTILE FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF FOUR INCHES (4") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP MINIMUM OF TWO FEET (2').

INSTALLATION AND MAINTENANCE:

1. BALED STRAW EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
2. BALED STRAW EROSION BARRIERS AND GEOTEXTILE FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
3. ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
4. INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM WATER FLOW OR DRAINAGE.

VEGETATIVE COVER SELECTION & MULCHING

TEMPORARY VEGETATIVE COVER:

PERENNIAL RYEGRASS 3 LBS./1,000 SQ.FT. (IOLUIUM PERENNE)

PERMANENT VEGETATIVE COVER:

1. SEE SEDIMENTATION AND EROSION CONTROL PLAN FOR SEED MIX
2. TEMPORARY MULCHING: STRAW AT 70-90 LBS./1,000 SQ.FT. (TEMPORARY VEGETATIVE AREAS) WOOD FIBER IN HYDROMULCH SLURRY 25-50 LBS./1,000 SQ. FT.

ESTABLISHMENT:

1. SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
2. SELECT ADAPTED SEED MIXTURE FOR THE SPECIFIC SITUATION. NOTE RATES AND THE SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPEC. BELOW).
3. APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
4. COVER GRASS AND LEGUME SEED WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
5. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO TEMPORARY MULCHING SPECIFICATIONS. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
6. USE PROPER INOCULANT ON ALL LEGUME SEEDINGS, USE FOUR (4) TIMES NORMAL RATES WHEN HYDROSEEDING.
7. USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IN CRITICAL AREAS WHERE IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER TO PREVENT EROSION.

MAINTENANCE:

1. TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LIME AS REQUIRED.
2. ON SITES WHERE GRASSES PREDOMINATE, BROADCAST ANNUALLY 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (12 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS.
3. ON SITES WHERE LEGUMES PREDOMINATE, BROADCAST EVERY THREE (3)YEARS OR AS INDICATED BY SOIL TEST 300 POUNDS OF 0-20-20 OR EQUIVALENT PER ACRE (8 LBS PER 1,000 SQ. FT.).

PERMANENT VEGETATIVE COVER

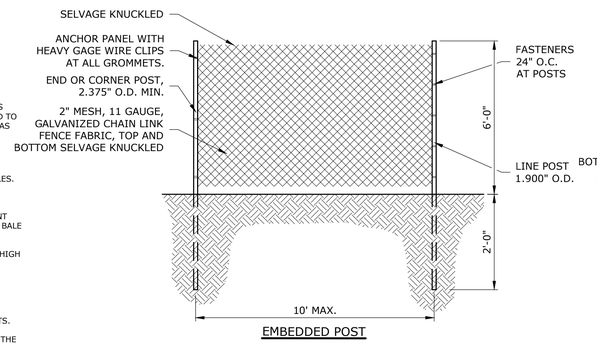
PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
4. APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
5. APPLY FERTILIZER ACCORDING TO SOIL TEST OR:
   - SPRING SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 300 LBS. OF 10-10-10 FERTILIZER PER ACRE (7 LBS. PER 1,000 SQ. FT.); THEN SIX (6) TO EIGHT (8) WEEKS LATER, APPLY ON THE SURFACE AN ADDITIONAL 300LBS. OF 10-10-10 FERTILIZER PER ACRE. AFTER SEPTEMBER 1, TEMPORARY VEGETATIVE COVER SHALL BE APPLIED.
   - FALL SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 600 LBS. OF 10-10-10 FERTILIZER PER ACRE (14 LBS. PER 1,000 SQ. FT.).

SEDIMENT & EROSION NOTES

1. PRIOR TO COMMENCEMENT OF WORK A PRECONSTRUCTION MEETING SHALL BE HELD WITH OWNERS REPRESENTATIVES, THE CONTRACTOR AND ENGINEER. AT THIS MEETING, ONE PERSON (UNDER THE DIRECTION OF THE GENERAL CONTRACTOR) WILL BE PLACED IN CHARGE OF SEDIMENT AND EROSION CONTROL FOR THE ENTIRE SITE.
2. CONTRACTOR TO STAKE OUT LIMIT OF DISTURBANCE. NO DISTURBANCE IS TO TAKE PLACE BEYOND THE LIMITS OF WORK SHOWN.
3. CONTRACTOR TO INSTALL SEDIMENT AND EROSION CONTROLS ALONG THE PERIMETER, ON AN AS NEEDED BASIS.
4. CLEAR AND GRUB SITE AND STOCKPILE TOPSOIL. PLACE SEDIMENT FILTER FENCE AND/OR SILT SOCKS AROUND STOCKPILES. CATCH BASINS NEED TO BE CLEARED OF DEBRIS PRIOR TO CONSTRUCTION.
5. THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MODIFIED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER.
6. INSPECTION OF THE SITE FOR EROSION SHALL CONTINUE FOR A PERIOD OF THREE MONTHS AFTER COMPLETION WHEN RAINFALLS OF ONE INCH OR MORE OCCUR.
7. ALL DEWATERING WASTE WATERS SHALL BE DISCHARGED IN A MANNER WHICH MINIMIZES THE DISCOLORATION OF THE RECEIVING WATERS.
8. THE SITE SHOULD BE KEPT CLEAN OF LOOSE DEBRIS, LITTER, AND BUILDING MATERIALS SUCH THAT NONE OF THE ABOVE ENTER WATERS OR WETLANDS.
9. A COPY OF ALL PLANS AND REVISIONS, AND THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MAINTAINED ON-SITE AT ALL TIMES DURING CONSTRUCTION.



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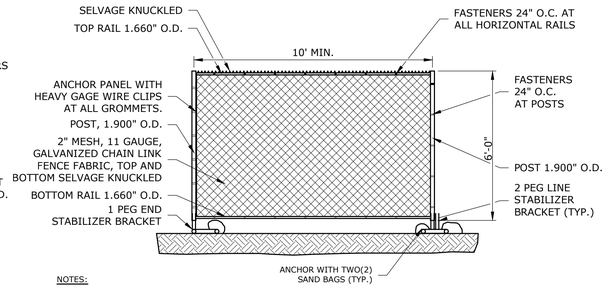


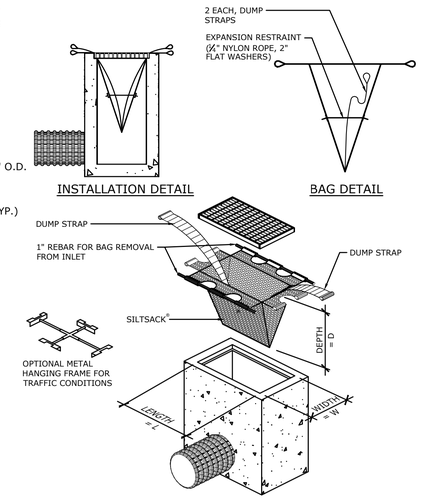
NOTES:

1. EACH STABILIZER BRACKET SHALL BE SECURED WITH TWO (2) SANDBAGS, MIN. 50 POUNDS EACH.
2. PANELIZED CONSTRUCTION FENCE SHALL ONLY BE USED AT CONSTRUCTION SITE ENTRANCE AREAS, AREAS REQUIRING FREQUENT RELOCATION OF FENCING, OR WHERE PAVED AREAS PROHIBIT INSTALLATION OF EMBEDDED FENCE POSTS.

PANELIZED

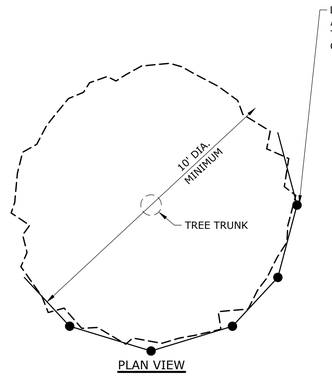
TEMPORARY CONSTRUCTION FENCE

NOT TO SCALE

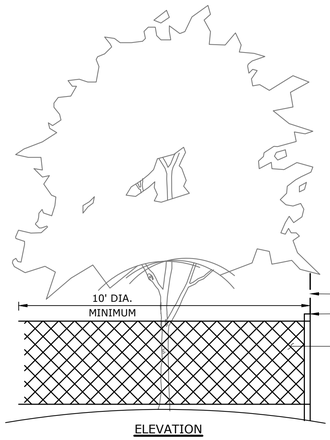


INLET SEDIMENTATION CONTROL DEVICE FOR CATCH BASIN

NOT TO SCALE



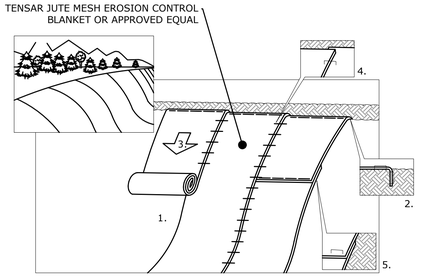
PLAN VIEW



ELEVATION

TREE PROTECTION

NOT TO SCALE

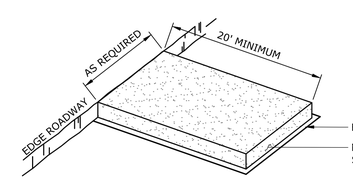


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING TENSAR NORTH AMERICAN GREEN SC150BN, DO NOT SEED PREPARED AREA. TENSAR NORTH AMERICAN GREEN SC150BN MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART.

REFER TO GENERAL STAPLE PATTERN GUIDE IN NORTH AMERICAN GREEN CATALOG FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

EROSION CONTROL MAT

NOT TO SCALE

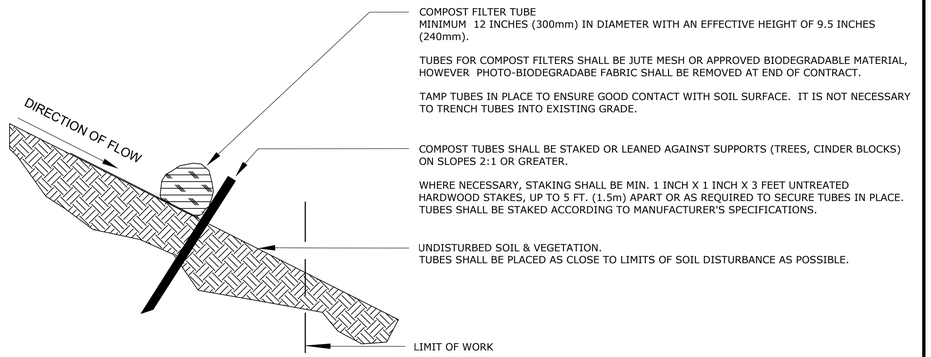


NOTES:

1. CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH GENERATE VEHICULAR TRACKING OF MUD.

CONSTRUCTION ENTRANCE (CE)

NOT TO SCALE



GENERAL NOTES:

1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES (300mm) FOR SLOPES UP TO 50 FEET (15.24m) IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. TUBE LOCATION MAY BE SHIFTED TO ADJUST TO LANDSCAPE FEATURES, BUT SHALL PROTECT UNDISTURBED AREA AND VEGETATION TO MAXIMUM EXTENT POSSIBLE.
4. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
5. ADDITIONAL TUBES SHALL BE USED AT THE DIRECTION OF THE ENGINEER.
6. ADDITIONAL STAKING SHALL BE USED AT THE DIRECTION OF THE ENGINEER.

COMPOST FILTER TUBE DETAIL

NOT TO SCALE

SLR
67 HUNT STREET, SUITE 203-C
AGAWAM, MA
413.241.6520
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SEDIMENT AND EROSION CONTROL DETAILS AND SPECIFICATIONS

HINGHAM CENTER FOR ACTIVE LIVING

BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

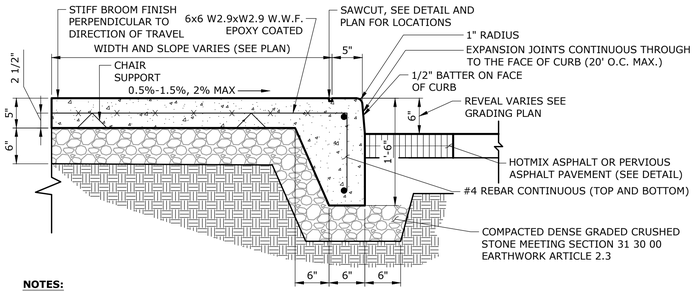
AS NOTED
SCALE

DECEMBER 9, 2025
DATE

21840.00004
PROJECT NO.

12 OF 26
SHEET NO.

SE-2
SHEET NAME

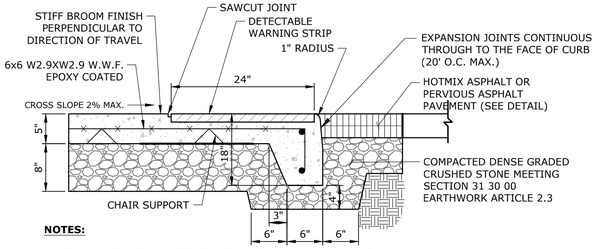


NOTES:

1. CEMENT CONCRETE, 4000 PSI, 3/4", 610, WITH 5%-7% AIR ENTRAINMENT, 6x6 W2.9xW2.9 EPOXY COATED W.W.F., MEETING SECTION 32 30 16 CAST-IN-PLACE CONCRETE
2. EXPANSION JOINT AT INTERVALS NOT TO EXCEED 20'. EXPANSION JOINT TO RUN TO THE FACE OF CURB
3. TO BE USED IN ALL LOCATIONS WHERE CONCRETE SIDEWALK ABUTS ASPHALT.
2. WELDED WIRE FABRIC (W.W.F.) SHALL BE SET ON CHAIRS SPACED TO KEEP THE W.W.F. PLANAR AND IN LOCATION AS DETAILED
3. FORMS SHALL BE AT LEAST FULL DEPTH OF THE CONCRETE THICKNESS
4. **SEE SPECIFICATION 32 30 16 CAST-IN-PLACE CONCRETE FOR ADDITIONAL REQUIREMENTS**

INTEGRAL CONCRETE WALK & CURB WITH REVEAL

NOT TO SCALE



NOTES:

1. CEMENT CONCRETE, 4000 PSI, 3/4", 610, WITH 5%-7% AIR ENTRAINMENT, 6x6 W2.9xW2.9 EPOXY COATED W.W.F., MEETING SECTION 32 30 16 CAST-IN-PLACE CONCRETE
2. EXPANSION JOINT AT INTERVALS NOT TO EXCEED 20'. EXPANSION JOINT TO RUN TO THE FACE OF CURB
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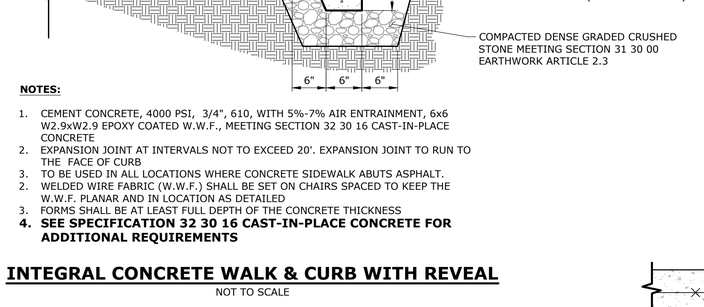
3. FORMS SHALL BE AT LEAST FULL DEPTH OF THE CONCRETE THICKNESS
4. **SEE SPECIFICATION 32 30 16 CAST-IN-PLACE CONCRETE FOR ADDITIONAL REQUIREMENTS**

INTEGRAL CONCRETE WALK & CURB FLUSH CONDITION WITH DETECTABLE WARNING STRIP

NOT TO SCALE



NOTES:

1. CEMENT CONCRETE, 4000 PSI, 3/4", 610, WITH 5%-7% AIR ENTRAINMENT, 6x6 W2.9xW2.9 EPOXY COATED W.W.F., MEETING SECTION 32 30 16 CAST-IN-PLACE CONCRETE
2. EXPANSION JOINT AT INTERVALS NOT TO EXCEED 20'. EXPANSION JOINT TO RUN TO THE FACE OF CURB
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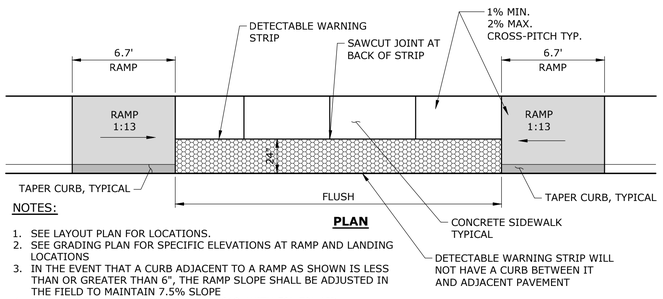
2. WELDED WIRE FABRIC (W.W.F.) SHALL BE SET ON CHAIRS SPACED TO KEEP THE W.W.F. PLANAR AND IN LOCATION AS DETAILED
3. FORMS SHALL BE AT LEAST FULL DEPTH OF THE CONCRETE THICKNESS
4. **SEE SPECIFICATION 32 30 16 CAST-IN-PLACE CONCRETE FOR ADDITIONAL REQUIREMENTS**

CONCRETE DUMPSTER & UTILITY PAD

NOT TO SCALE



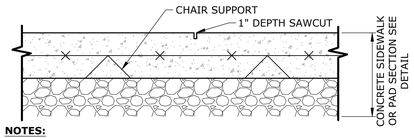
NOTES:

1. SEE LAYOUT PLAN FOR LOCATIONS.
2. SEE GRADING PLAN FOR SPECIFIC ELEVATIONS AT RAMP AND LANDING LOCATIONS
3. IN THE EVENT THAT A CURB ADJACENT TO A RAMP AS SHOWN IS LESS THAN OR GREATER THAN 6", THE RAMP SLOPE SHALL BE ADJUSTED IN THE FIELD TO MAINTAIN 7.5% SLOPE
4. CEMENT CONCRETE, 4000 PSI, 3/4", 610, WITH 5%-7% AIR ENTRAINMENT, 6x6 W2.9xW2.9 EPOXY COATED W.W.F., MEETING SECTION 32 30 16 CAST-IN-PLACE CONCRETE
5. WELDED WIRE FABRIC (W.W.F.) SHALL BE SET ON CHAIRS SPACED TO KEEP THE W.W.F. PLANAR AND IN LOCATION AS DETAILED
6. FORMS SHALL BE AT LEAST FULL DEPTH OF THE CONCRETE THICKNESS
7. **SEE SPECIFICATION 32 30 16 CAST-IN-PLACE CONCRETE FOR ADDITIONAL REQUIREMENTS**

PLAN

ACCESSIBLE SIDEWALK RAMP - PARALLEL

NOT TO SCALE

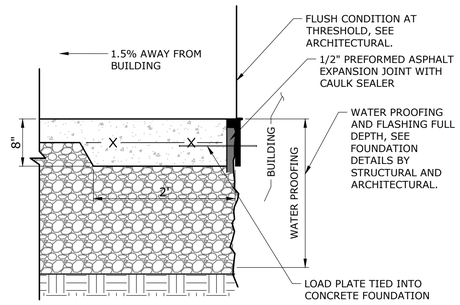


NOTES:

1. PROVIDE PREFORMED EXPANSION JOINT AT ALL EXPANSION JOINTS AND OTHER LOCATIONS WHERE CONCRETE ABUTS EXISTING CONCRETE.

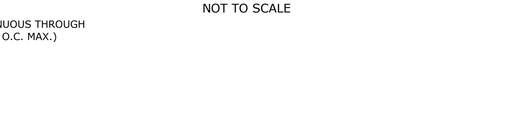
SCORE JOINT - SAWCUT

NOT TO SCALE



CONCRETE WALK AT BUILDING

NOT TO SCALE

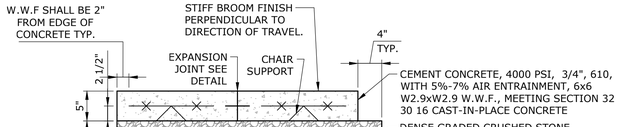


NOTES:

1. SEED MIX WILL VARY DEPENDING ON TIME OF YEAR FOR PLANTING. SEE SECTION 32 92 00 - TOPSOIL, SEEING, & SODDING
2. VARIETIES SHALL BE NTEP TOP 10 PERFORMERS FROM LATEST TEST AVAILABLE FOR SPECIES

LAWN DETAIL

NOT TO SCALE

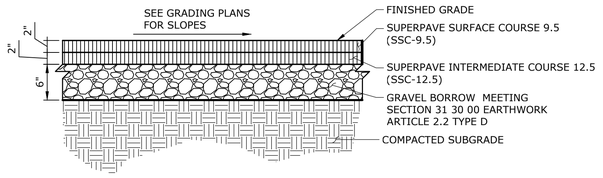


NOTES:

1. EXPANSION JOINTS 20' O.C. MAXIMUM SCORE JOINTS 5' O.C. TYPICAL.
2. WELDED WIRE FABRIC (W.W.F.) SHALL BE SET ON CHAIRS SPACED TO KEEP THE W.W.F. PLANAR AND IN LOCATION AS DETAILED
3. FORMS SHALL BE AT LEAST FULL DEPTH OF THE CONCRETE THICKNESS
4. SEE SPECIFICATION 31 30 16 CAST-IN-PLACE CONCRETE FOR ADDITIONAL REQUIREMENTS
5. W.W.F. SHALL BE EPOXY COATED

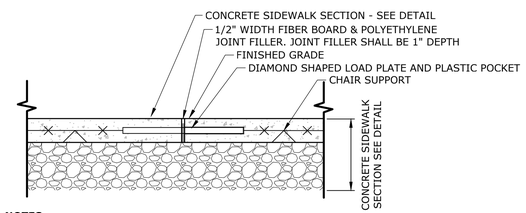
CONCRETE SIDEWALK

NOT TO SCALE



HOTMIX ASPHALT PAVEMENT

NOT TO SCALE

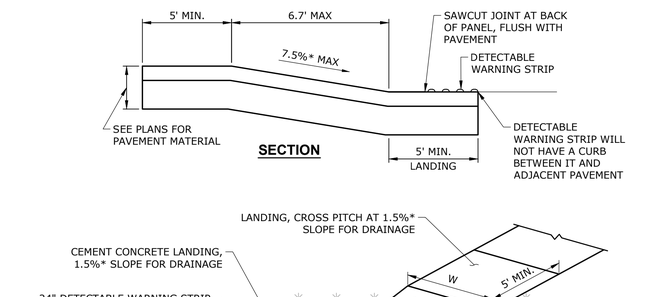


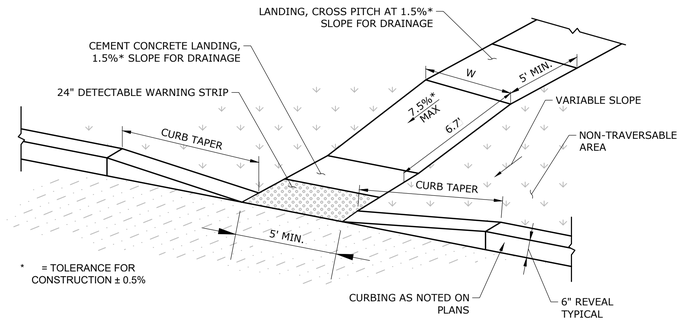
NOTES:

1. PROVIDE PREFORMED EXPANSION JOINT AT ALL CONSTRUCTION JOINT, SAWCUT, AND OTHER LOCATIONS WHERE CONCRETE ABUTS EXISTING CONCRETE.
2. SEE SECTION 31 30 16 FOR ADDITIONAL LOAD PLATE AND JOINT SPECIFICATIONS

CEMENT CONCRETE EXPANSION JOINT

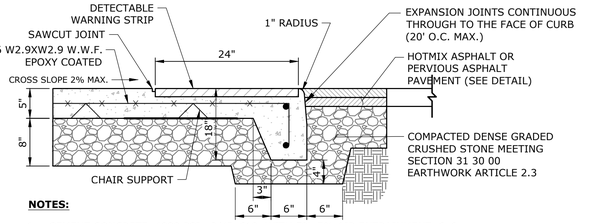
NOT TO SCALE





ACCESSIBLE SIDEWALK RAMP

NOT TO SCALE

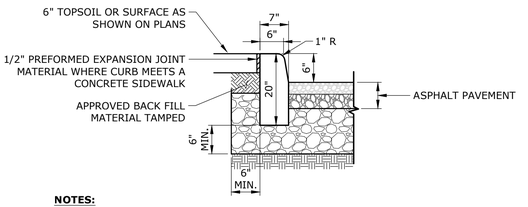


NOTES:

1. CEMENT CONCRETE, 4000 PSI, 3/4", 610, WITH 5%-7% AIR ENTRAINMENT, 6x6 W2.9xW2.9 EPOXY COATED W.W.F., MEETING SECTION 32 30 16 CAST-IN-PLACE CONCRETE
2. EXPANSION JOINT AT INTERVALS NOT TO EXCEED 20'. EXPANSION JOINT TO RUN TO THE FACE OF CURB
3. TO BE USED IN ALL LOCATIONS WHERE CONCRETE SIDEWALK ABUTS ASPHALT.
2. WELDED WIRE FABRIC (W.W.F.) SHALL BE SET ON CHAIRS SPACED TO KEEP THE W.W.F. PLANAR AND IN LOCATION AS DETAILED
3. FORMS SHALL BE AT LEAST FULL DEPTH OF THE CONCRETE THICKNESS
4. **SEE SPECIFICATION 32 30 16 CAST-IN-PLACE CONCRETE FOR ADDITIONAL REQUIREMENTS**

INTEGRAL CONCRETE WALK & CURB FLUSH CONDITION

NOT TO SCALE



NOTES:

1. CEMENT CONCRETE, 4000 PSI, 3/4", 610, WITH 5%-7% AIR ENTRAINMENT, MEETING SECTION 32 30 16 CAST-IN-PLACE CONCRETE
2. PRE-CAST CONCRETE IS ALSO ACCEPTABLE
3. **SEE SPECIFICATION 32 30 16 CAST-IN-PLACE CONCRETE FOR ADDITIONAL REQUIREMENTS**

PRECAST CONCRETE CURB

NOT TO SCALE

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DESCRIPTION | DATE | BY

SITE DETAILS

HINGHAM CENTER FOR ACTIVE LIVING

BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

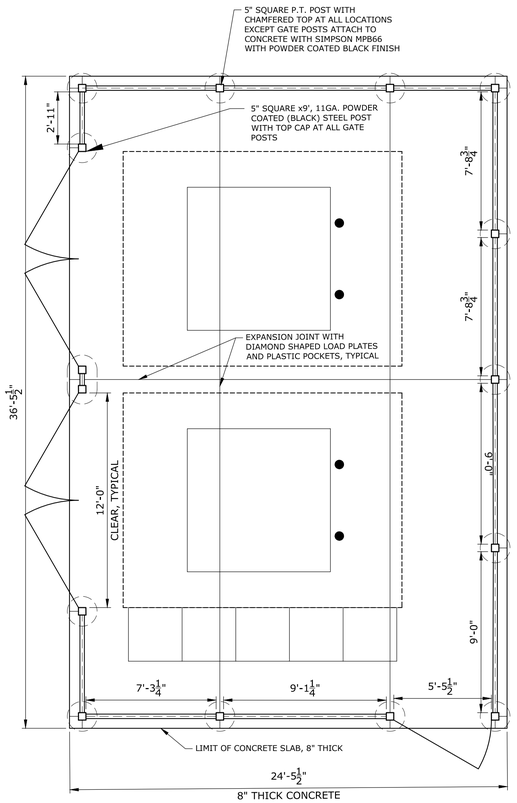
SCALE: AS NOTED

DATE: DECEMBER 9, 2025

PROJECT NO.: 21840.00004

SHEET NO.: 13 OF 26

SHEET NAME: SD-1



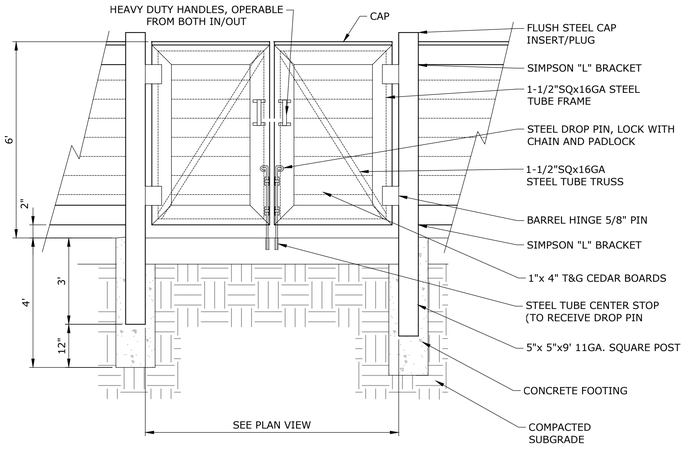
PLAN VIEW

NOTES:

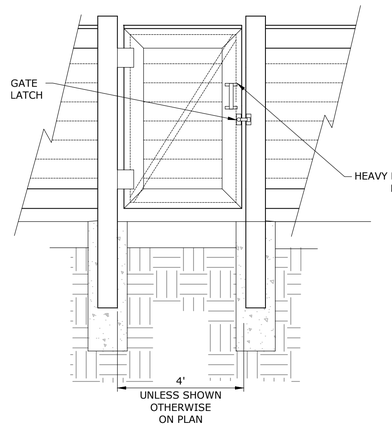
1. ALL WOOD PANELS SHALL BE CEDAR
2. ALL WOOD POSTS TO BE PRESSURE TREATED, SMOOTH FINISH
3. ALL GATE POSTS TO BE 5" SQUARE, 11 GAUGE, POWDER COATED WITH CAPS
4. STEEL GATE FRAMES TO BE PRE-ASSEMBLED AND POWDER COATED AFTER WELDING
5. ALL GATE FASTENERS AND HARDWARE SHALL BE STAINLESS STEEL.
6. GATE HARDWARE SHALL BE MECHANICALLY ATTACHED, NOT WELDED, TO THE FRAME AND POSTS
7. ALL POWDER COATING SHALL MEET AAMA 2605

DUMPSTER PAD & ENCLOSURE

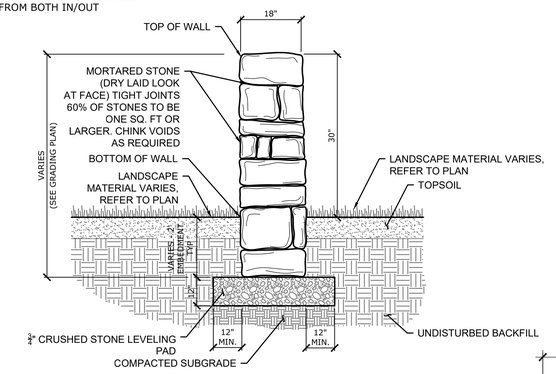
SCALE: ¼" = 1'



DOUBLE GATE ELEVATION

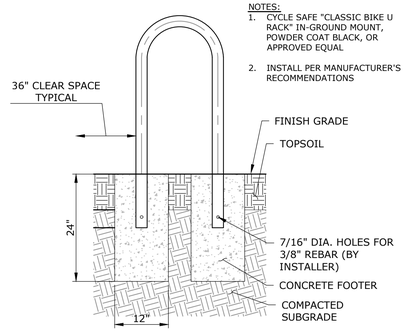


PEDESTRIAN GATE ELEVATION



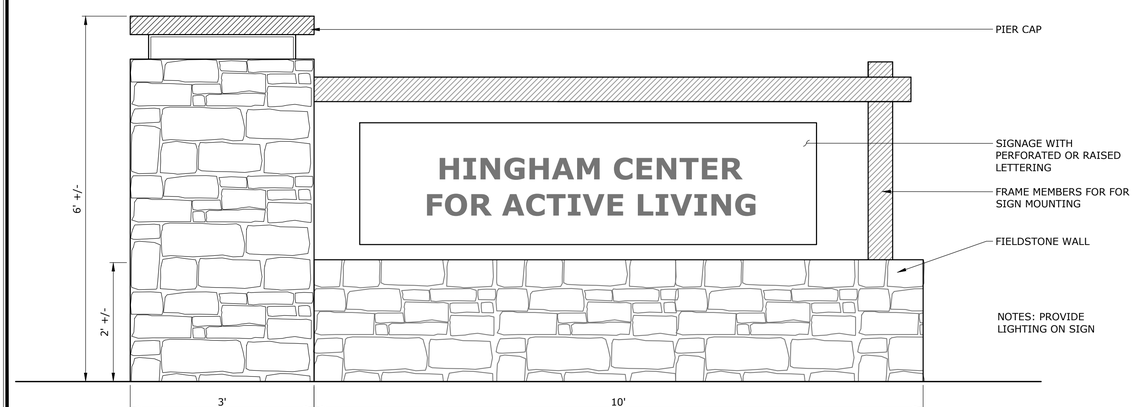
MORTARED FIELDSTONE GRAVITY WALL (NON-RETAINING)

NOT TO SCALE



BIKE RACK MOUNTING

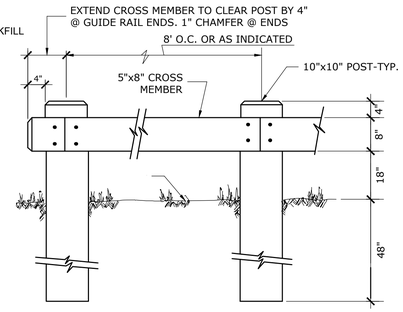
NOT TO SCALE



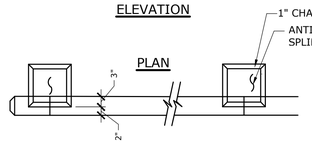
ENTRY SIGNAGE - ELEVATION

NOT TO SCALE

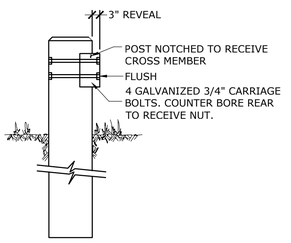
CONCEPTUAL SIGNAGE EXAMPLE IMAGE



ELEVATION



PLAN



SECTION

TIMBER GUARD RAIL

NOT TO SCALE

NOTES:

1. ALL RAIL AND POST LUMBER SHALL BE COMMERCIAL GRADE, NO.1 DENSE, (Fb=10.3 FPo) OR BETTER, CONFORMING TO NOMINAL SIZES AND DIMENSIONS SHOWN AND TO AASHTO SPECIFICATION M168. ALL TIMBER SHALL BE TREATED WITH A PRESSURE IMPREGNATED PRESERVATIVE IN ACCORDANCE WITH AASHTO SPECIFICATION M133.
2. BOLTS SHALL BE 3/4" DIAM., ASTM 307, WITH APPROPRIATE NUTS AND WASHERS (ALL HOT DIPPED GALVANIZED)
3. BACK FILL AROUND EACH POST WITH SUITABLE NATIVE MATERIAL IN 1' LIFTS
4. CONTRACTOR TO PROVIDE 90°, 45° OR END POSTS WHERE REQUIRED.
5. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ENTIRE SYSTEM.
6. ALL WOOD TO BE PRESSURE TREATED SOUTHERN YELLOW PINE
7. **SEE SECTION 32 94 00 TIMBER GUARD RAIL**

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AGAWAM, MA
413.241.6520
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE DETAILS

HINGHAM CENTER FOR ACTIVE LIVING

BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

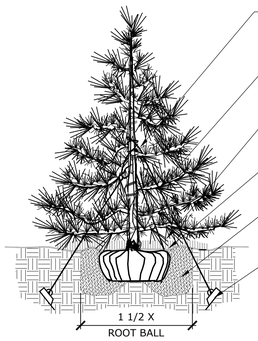
AS NOTED — SCALE

DECEMBER 9, 2025 — DATE

21840.00004 — PROJECT NO.

14 OF 26 — SHEET NO.

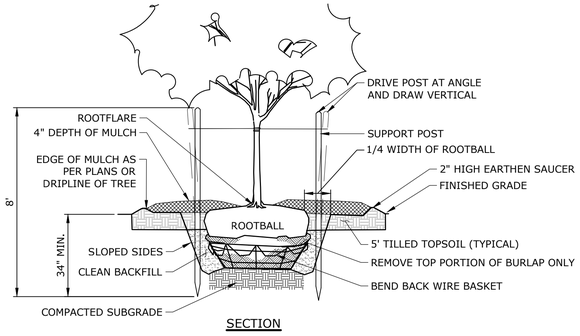
SD-2 — SHEET NAME



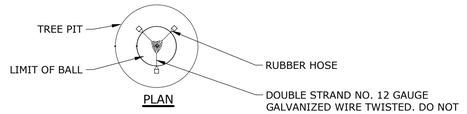
NOTES:
1. PROVIDE STAKING AS REQUIRED.
2. PLANT SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED GRADE.
3. PAINT ALL CUTS OVER 25.4mm DIA.
4. REMOVE ALL CONTAINERS AND BASKETS FROM ROOT BALL.
5. REMOVE BURLAP FROM TOP 8.5mm OF ROOT BALL.

NOTE: REMOVE ALL BOULDERS & LEDGE 18" BELOW SUBGRADE

EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE



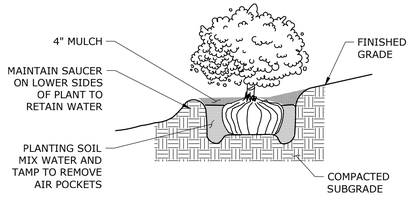
SECTION



PLAN

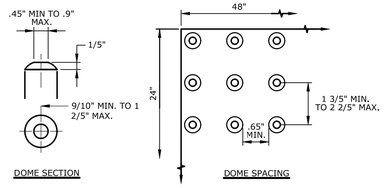
NOTE:
1. SUPPORT STAKES SHALL BE REMOVED BY THE CONTRACTOR ONE YEAR AFTER INSTALLATION.

TREE PLANTING
NOT TO SCALE



NOTES:
1. UNLESS OTHERWISE DIRECTED SHREDDED MULCH SHALL BE PLACED TO A LIMIT OF ONE FOOT BEYOND THE CENTER OF THE OUTERMOST SHRUBS IN SHRUB BED.

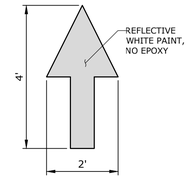
SHRUB PLANTING
NOT TO SCALE



NOTES:

THE DETECTABLE WARNING STRIP SHALL BE A PREFABRICATED DETECTABLE WARNING SURFACE TILE THAT IS CAST IN PLACE AND REPLACEABLE SUCH AS MANUFACTURED FROM ALERTTILE DETECTABLE WARNING SYSTEMS, ADA SOLUTIONS, OR APPROVED EQUAL. THE TILE SHALL HAVE A YELLOW HOMOGENEOUS COLOR IN COMPLIANCE WITH FEDERAL STANDARD 595A COLOR #33538 OR APPROVED EQUAL

DETECTABLE WARNING STRIP FOR ACCESSIBLE SIDEWALK RAMP
NOT TO SCALE



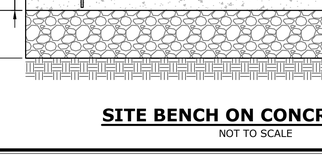
NOTES:
1. SEE SPECIFICATION 32 17 23 PAVEMENT MARKINGS

PAINTED PAVEMENT ARROW
NOT TO SCALE

GROUND COVER SPACING TABLE

PLANT SPACING "A"	ROW SPACING "B"	NO. OF PLANTS	AREA UNIT
6" O.C.	5.2"	4.61	1 SQ. FT.
8" O.C.	6.93"	2.6	1 SQ. FT.
10" O.C.	8.66"	1.66	1 SQ. FT.
12" O.C.	10.4"	1.15	1 SQ. FT.

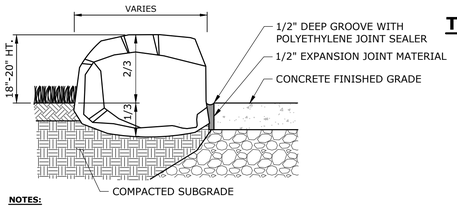
PLAN



SECTION

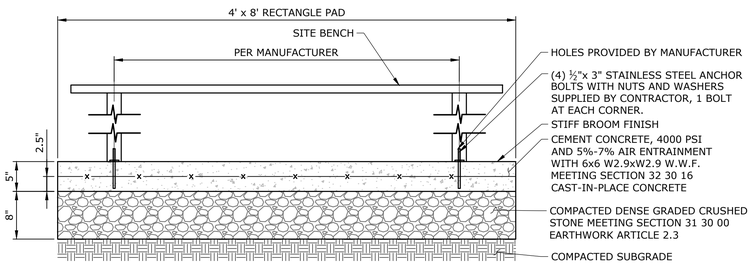
NOTES:
1. ALL GROUND COVER TO BE PLANTED IN TRIANGULAR PATTERN. SEE DETAIL PLAN AND GROUND COVER SPACING TABLE.

PERENNIAL PLANTING
NOT TO SCALE

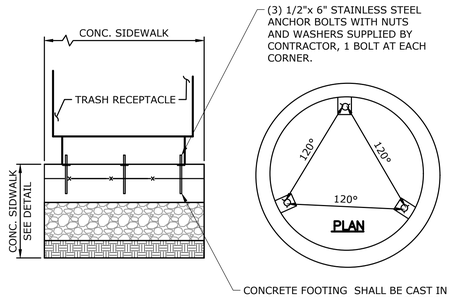


NOTES:
1. LANDSCAPE ARCHITECT TO FLAG BOULDERS AT DETERMINED SOURCE.
2. BOULDERS SHALL HAVE FLAT TOPS EXPOSED WITH ROUGH EDGES REMOVED.
3. ALL LOCATIONS AND ELEVATIONS TO BE APPROVED BY THE LANDSCAPE ARCHITECT.

PLACED SITTING BOULDER
NOT TO SCALE

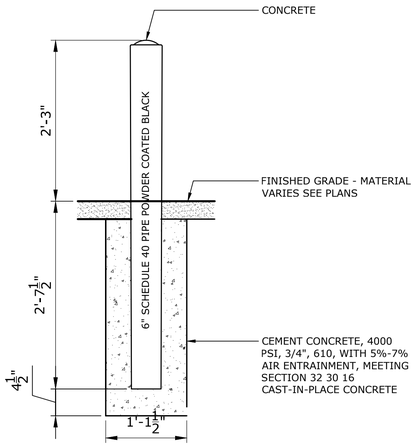


SITE BENCH ON CONCRETE PAD
NOT TO SCALE

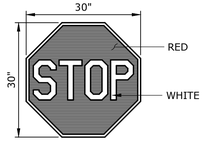


NOTES:
1. CONTRACTOR TO INSTALL TRASH RECEPTACLE PER MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE MANUFACTURER PRODUCT DATA FOR APPROVAL.
3. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MOUNTING HARDWARE.
4. SEE SHEET MA-1 NOTE #7 FOR MAKE AND MODEL AND SIZE.
5. INSTALL EXPANSION JOINT WHEN PAD ABUTS CONCRETE PAVEMENT.
6. PITCH SURFACE AWAY FROM WALKING SURFACE.

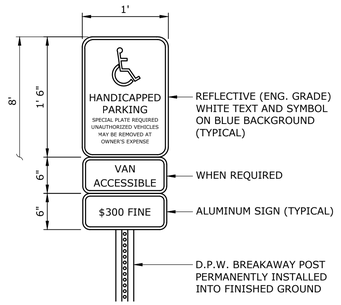
TRASH RECEPTACLE MOUNTING ON CONCRETE
NOT TO SCALE



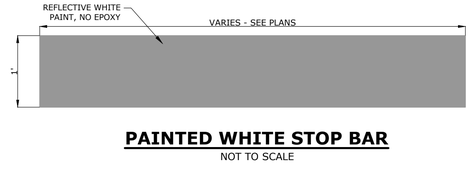
PROTECTIVE STEEL BOLLARD
NOT TO SCALE



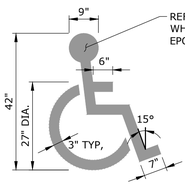
STOP SIGN
NOT TO SCALE



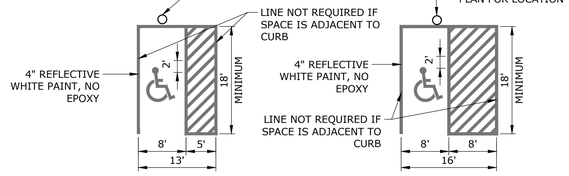
ACCESSIBLE PARKING SIGN
NOT TO SCALE



PAINTED WHITE STOP BAR
NOT TO SCALE



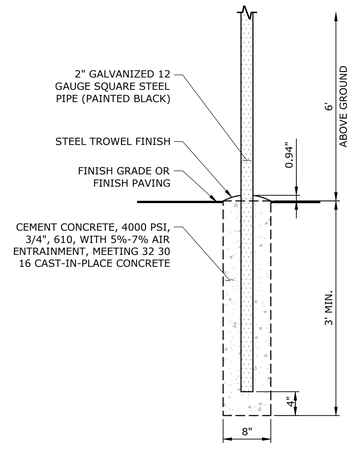
ACCESSIBLE PARKING SPACE MARKING
NOT TO SCALE



NOT-VAN ACCESSIBLE

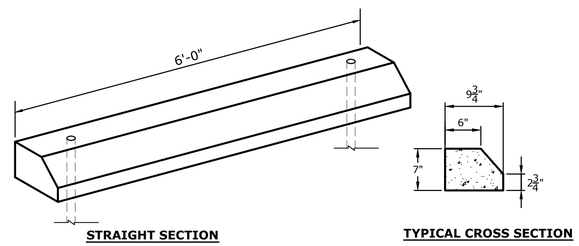
VAN ACCESSIBLE

ACCESSIBLE PARKING STALL DETAIL
NOT TO SCALE



NOTES:
1. FOR POST MOUNTING, USE NON-CORROSIVE 3/8" MACHINE BOLTS WITH WASHERS, 2 PER SIGN.
2. FOR WALL MOUNTING, USE NON-CORROSIVE 3/8" LAG BOLTS WITH LEAD EXPANSION SHIELD, 4 PER SIGN.
3. BOTTOM OF FOOTING TO BE 12" BELOW FROST LINE, EXISTING UNDISTURBED GRADE OR FINISHED GRADE, WHICHEVER IS GREATER.

TRAFFIC SIGN POST
NOT TO SCALE



STRAIGHT SECTION

TYPICAL CROSS SECTION

NOTES:
1. CONCRETE: 4000 PSI, 28 DAYS
2. WEIGHT, 300 LBS.
3. REINFORCEMENT, (2) #4 BARS
4. (2) 3/4" HOLES CAST IN FOR ANCHORING
5. (2) PROVIDE 5/8" x 30" REBAR FOR ANCHORING

CONCRETE WHEEL STOP
NOT TO SCALE

SLR
67 HUNT STREET, SUITE 203-C
AGAWAM, MA
413.241.6520
SLRCONSULTING.COM

DESCRIPTION | DATE | BY

SITE DETAILS

HINGHAM CENTER FOR ACTIVE LIVING

BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

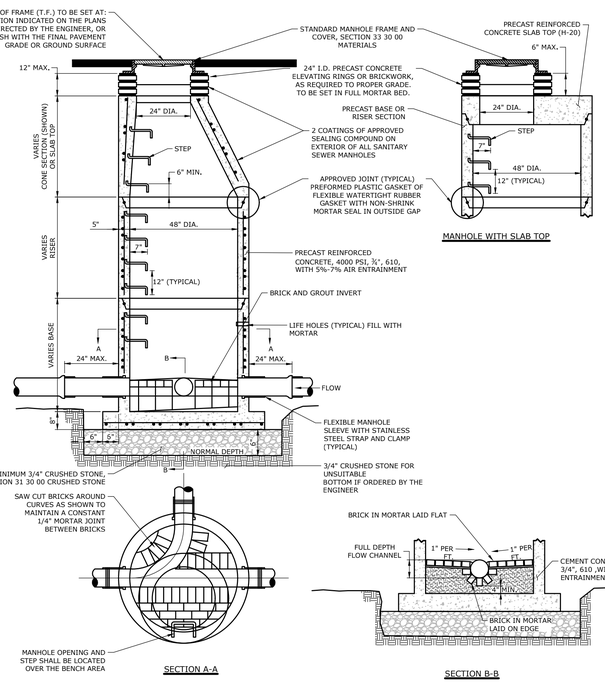
AS NOTED — SCALE

DECEMBER 9, 2025 — DATE

21840.00004 — PROJECT NO.

15 OF 26 — SHEET NO.

SD-3 — SHEET NAME

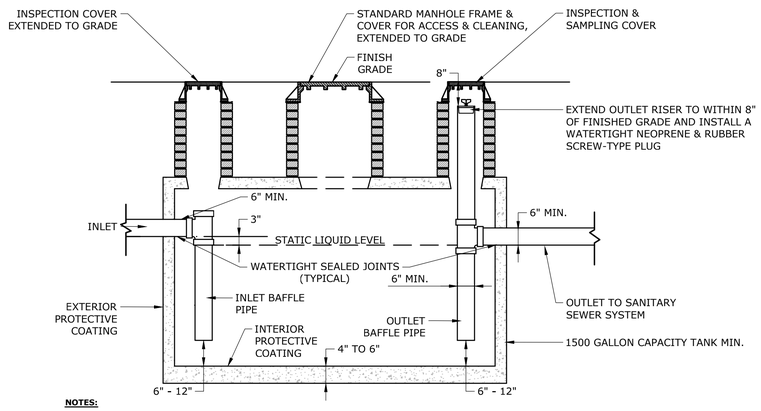


NOTES:

1. CONNECTIONS TO EXISTING SANITARY MANHOLES TO BE APPROVED BY WPCA AND CORE DRILLED WITH FLEX BOOT (FLEX-N-SEAL OR EQUAL)

SANITARY MANHOLE

NOT TO SCALE

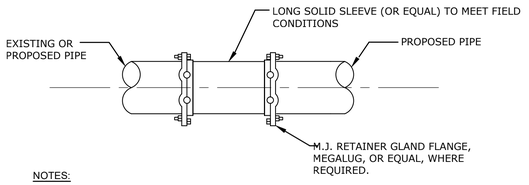


NOTES:

1. ALL MANHOLES AND CLEANOUTS ON EXTERNAL GREASE TRAPS SHALL BE EXTENDED TO GRADE TO FACILITATE CLEANING. ALL NEW GREASE TRAPS SHALL BE PROVIDED WITH MANHOLE COVERS WHICH HAVE BEEN PLACARDED WITH NOTIFICATION AS TO THE DANGER OF ENTERING THE CHAMBER DUE TO NOXIOUS GASES (PLACARDING SHALL BECOME EFFECTIVE JANUARY 1, 1990)
2. SUPPORT 6" INLET AND OUTLET BAFFLE PIPES ADEQUATELY WITH STAINLESS STEEL STRAPS AND ANCHOR BOLTS.
3. INSTALL MINIMUM 12" MANHOLE FRAMES AND COVERS OVER INLET AND OUTLET BAFFLE PIPES. THE FOLLOWING COVERS ARE ACCEPTABLE: HEAVY DUTY (PAVEMENT AREAS) - CAMPBELL PATTERN #1000 LIGHT DUTY (GRASS AREAS) - CAMPBELL PATTERN #1300A

EXTERNAL GREASE TRAP

NOT TO SCALE

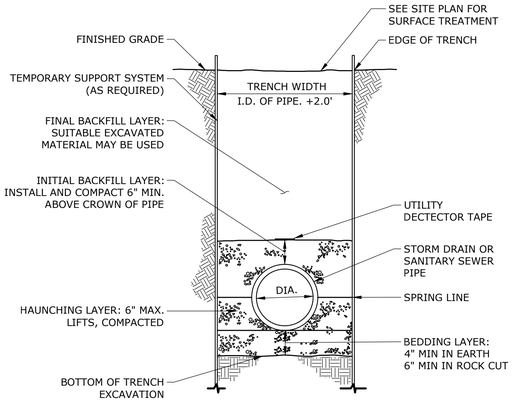


NOTES:

1. DUCTILE IRON RESTRAINTS SHALL BE USED AT EVERY DIP JOINT PER CITY REQUIREMENTS. (LOCK-TITE GASKETS OR MEGA LUGS AS APPROVED BY ENGINEER.

SOLID SLEEVE (DIP X DIP) DETAIL

N.T.S.

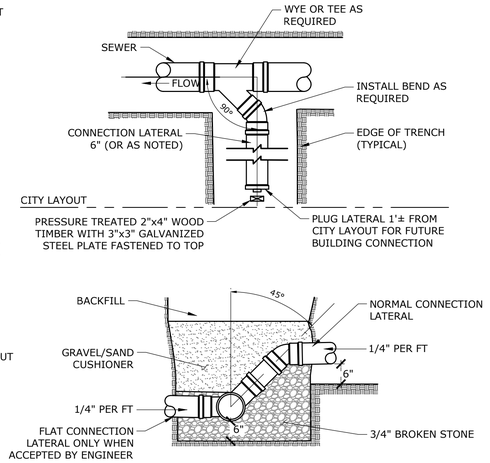


NOTE:

1. BACKFILL MATERIAL USED IN BEDDING, HAUNCHING, AND INTIAL BACKFILL LAYERS SHALL BE 3/4" CRUSHED STONE.
2. PAYMENT LIMIT FOR ROCK IN TRENCH TO BE PIPE DIAMETER + 3.0'

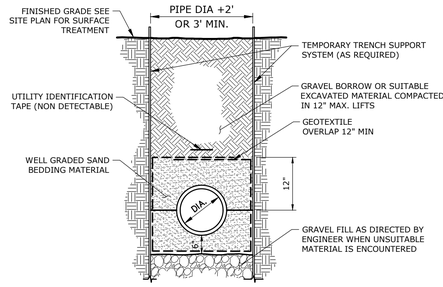
SANITARY SEWER TRENCH DETAIL

NOT TO SCALE



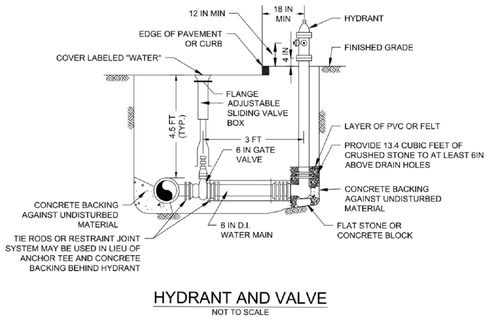
SEWER CONNECTION LATERAL

NOT TO SCALE



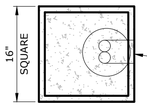
WATER MAIN TRENCH DETAIL

NOT TO SCALE



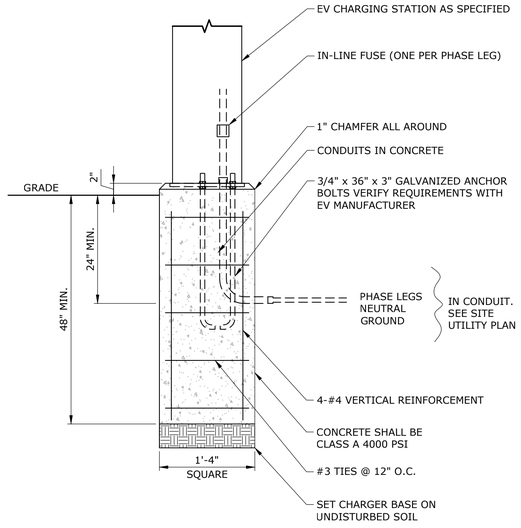
HYDRANT AND VALVE

NOT TO SCALE



PLAN VIEW

NOT TO SCALE



ELEVATION - EV CHARGING STATION BASE AT GRADE

NOT TO SCALE

Spar 8' – 24' Square Tapered and Straight Wood Poles

structura

FIXTURE TYPE: _____

PROJECT NAME: _____

Glulam solid wood shaft and aluminum base pole available in 8' – 24' heights

FEATURES:

- Available with straight, tapered, or square to round wood shaft
- Square extruded aluminum pole base with flush handhole cover held with countersunk stainless steel fasteners
- Tenon or drill mount fixture mounting

SPECIFICATIONS:

HOUSING: Solid wood pole is assembled through glulam construction and precision machined using CNC technology. An electrical raceway is provided in the pole's center for wiring. Laminations measure no more than 2" in thickness. Adhesive complies with ASTM D-2559 glulam construction specifications for extreme exposed weather conditions, is waterproof and rated for wet or dry use exposure.

Glulam wood shaft is fastened to aluminum pole base welded to a 3/4" thick aluminum anchor bolt base. Anchor bolt kit includes (4) 3/4" hot dip galvanized anchor bolts and fasteners and ridged concrete pour template.

ELECTRICAL: A 5/16" – 18 grounding point is provided on the aluminum pole base. Wireway access is provided through a NEC compliant handhole with a flush, gasketed cover plate.

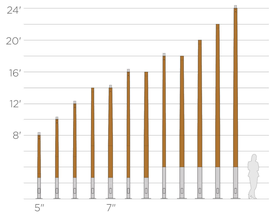
FINISHES AND MATERIALS: Wood pieces are finished with a low VOC waterborne matte exterior finish containing UV and mildew inhibitors. All exterior aluminum parts are polyester powder coat painted to AAMA-2604 standards. Care and Maintenance

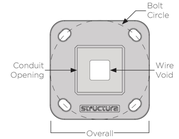
Spar straight pole shown with banner bracket arm option.

HARDWARE: All hand hole fasteners and luminaire bracket arm hardware are stainless steel. Anchor bolt kits are ASTM F1554 grade 55 steel with galvanized steel hex nuts and washers.

FIXTURE MOUNTING: Fixtures mount either by 2 3/8", 2 7/8", 3 1/2", or 4" diameter by 4" tall tenon or drill mount for arm brackets. Consult factory for other tenon sizes. Bolt mounted luminaires must use stainless steel hardware.

structura





Pole Size	Baseplate Size	Bolt Circle	Base Height[1]	Conduit Opening	Wire Void
5.0"	10" Sq.	10" Dia.	32"/48"	4.5" Sq.	2" Sq.
7.0"	14" Sq.	14" Dia.	32"/48"	6.5" Sq.	2" Sq.

ORDERING GUIDE: EXAMPLE: SPAR-T-22-70-50-S1-C3-T3124-BD-STD

SPAR									STD
1	2	3	4	5	6	7	8	9	10

1 Series
SPAR — Spar

2 Shaft Shape
S — Square Straight
T — Square Tapered
SQRD — Square to Round

3 Height
8 — 8'
10 — 10'
12 — 12'
14 — 14'
16 — 16'
18 — 18'
20 — 20'
22 — 22'
24 — 24'

4 Base Dimension[2]
50 — 5.0"
70 — 7.0"

5 Top Dimension
40 — 4.0"
50 — 5.0"
70 — 7.0"

6 Wood Finish
S* — See color options on finishes technical sheet

7 Metal Finish
C* — See color options on finishes technical sheet Custom Color
CSM

8 Fixture Mounting
Tenon
T2384 — 2 3/8" x 4" Tenon
T2784 — 2 7/8" x 4" Tenon
T3124 — 3 1/2" x 4" Tenon
T4004 — 4" x 4" Tenon
TXXX — Specify other Tenon
Drill
D1 — 1 Drill Location
D2 — 2 Drill Locations
D3 — 3 Drill Locations
D4 — 4 Drill Locations

9 Anchor Bolts
BD — Bolt Down Anchors (recommended)
BC — Traditional Anchors with Base Cover

10 Special
STD — Standard

1. Poles with a height 18' and over have a 48" tall base. Contact Structura for other base height options.
2. See wind loading tables for allowable EPA.

Product specification sheets subject to change.

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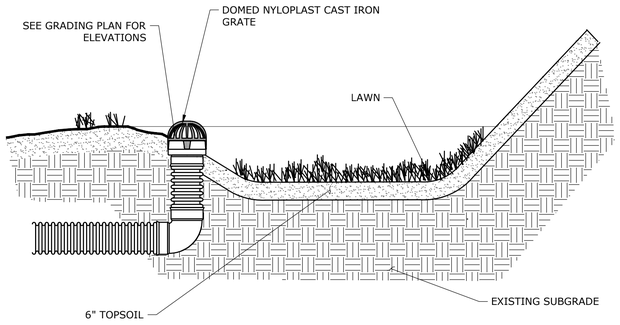
67 HUNT STREET, SUITE 203-C
AGAWAM, MA
413.241.6520
SLRCONSULTING.COM

DESCRIPTION | DATE | BY

SITE DETAILS
HINGHAM CENTER FOR ACTIVE LIVING
BARE COVE PARK DRIVE
HINGHAM, MA

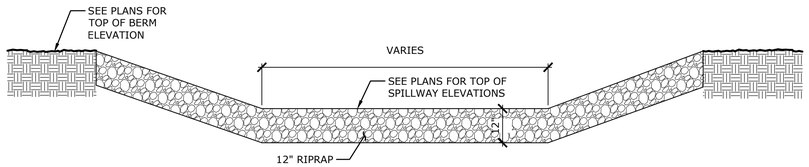
AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

SCALE: AS NOTED
DATE: DECEMBER 9, 2025
PROJECT NO.: 21840.00004
SHEET NO.: 16 OF 26
SHEET NAME: SD-4



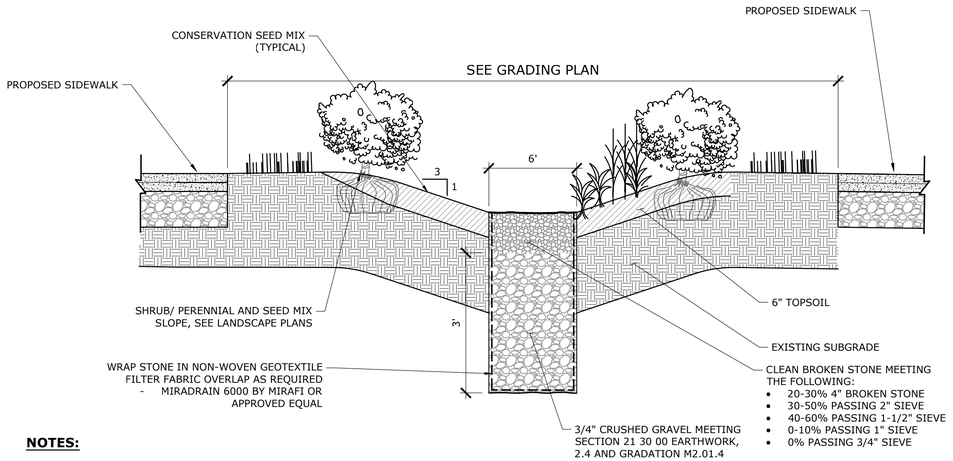
STORMWATER MANAGEMENT BASIN WITH NYLOPLAST DRAIN OUTLET

NOT TO SCALE



FOREBAY OVERFLOW WEIR SECTION DETAIL

NOT TO SCALE

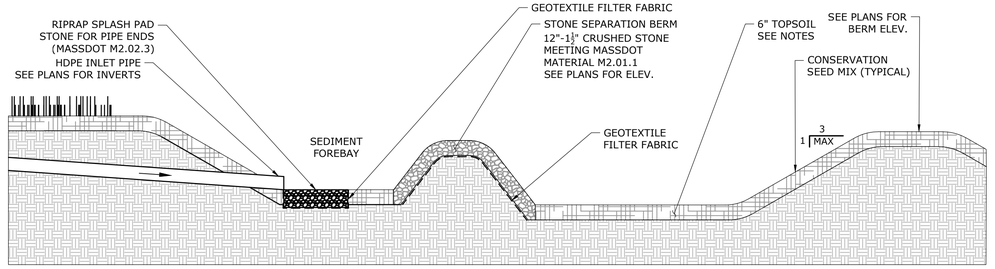


NOTES:

1. BEFORE THE DEVELOPMENT SITE IS GRADED, THE AREA OF THE RAIN GARDENS SHOULD BE ROPED OFF AND FLAGGED TO PREVENT SOIL COMPACTION BY HEAVY EQUIPMENT.
2. SMEARING OF SOIL AT THE INTERFACE OF THE BASIN OR TRENCH FLOOR AND SIDES SHOULD BE AVOIDED.
3. THE FLOOR OF THE RAIN GARDENS SHOULD BE RAKED OR DEEP TILLED AFTER FINAL GRADING TO RESTORE INFILTRATION RATES.
4. APPROPRIATE EROSION AND SEDIMENT CONTROLS SHOULD BE UTILIZED DURING CONSTRUCTION, AS WELL AS IMMEDIATELY FOLLOWING CONSTRUCTION, TO STABILIZE THE SOILS IN AND AROUND THE RAIN GARDEN.
5. DO NOT PLACE THE BIORETENTION SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED
6. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUN-OFF WATER FROM EXCAVATION) TO THE BIORETENTION AREA DURING ANY STAGE OF CONSTRUCTION
7. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
8. LIGHT EARTH-MOVING EQUIPMENT (BACKHOES OR WHEEL AND LADDER TYPE TRENCHES) SHOULD BE USED TO EXCAVATE RAIN GARDENS. HEAVY EQUIPMENT CAN CAUSE SOIL COMPACTION AND REDUCE INFILTRATION CAPACITY. COMPACTION OF THE INFILTRATION AREA AND SURROUNDING SOILS DURING CONSTRUCTION SHOULD BE AVOIDED.

RAIN GARDEN

NOT TO SCALE



NOTES

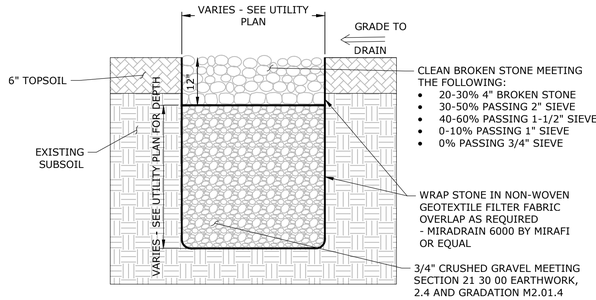
1. SEE GRADING FOR ELEVATIONS
2. INITIALLY SHAPE BASIN FOR CONSTRUCTION WITH NO TOPSOIL ON THE BOTTOM.
3. ONCE ALL UPLAND AREAS HAVE STABILIZED, REMOVE ACCUMULATED SEDIMENT, EXCAVATE AND PLACE TOPSOIL AND SEED TO THE GRADES AS SHOWN ON THE PLANS.
4. SUBMIT PRODUCT DATA/SPECIFICATION FOR OUTLET STRUCTURE AND DRAINAGE PIPE FOR APPROVAL.
5. PERMANENT VEGETATIVE COVER:

NEW ENGLAND CONSERVATION/WILDLIFE MIX OR EQUAL:

RECOMMENDED APPLICATION RATE: 1 POUND PER 1,750 SF
SEED MIX SPECIES: Virginia Wild Rye (Elymus virginicus), Little Bluestem (Schizachyrium scoparium), Big Bluestem (Andropogon gerardii), Creeping Red Fescue (Festuca rubra), Switch Grass (Panicum virgatum), Partridge Pea (Chamaecrista fasciculata), Deer Tongue (Panicum clandestinum), Indian Grass (Sorghastrum nutans), Ox Eye Sunflower (Heliopsis helianthoides), Common Milkweed (Asclepias syriaca), Spotted Joe Pye Weed (Eupatorium maculatum), Grass Leaved Goldenrod (Euthamia graminifolia), Blue Vervain (Verbena hastata), New England Aster (Aster novae-angliae), Early Goldenrod (Solidago juncea).

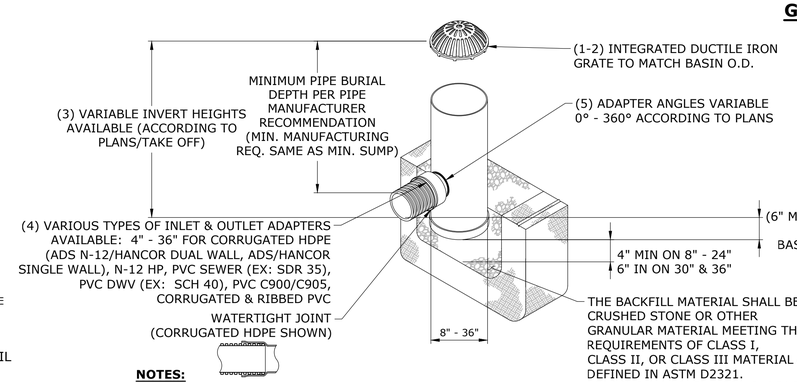
TYPICAL SECTION - INFILTRATION BASIN WITH SEDIMENT FOREBAY

NOT TO SCALE



GRAVEL INFILTRATION TRENCH DETAIL

NOT TO SCALE

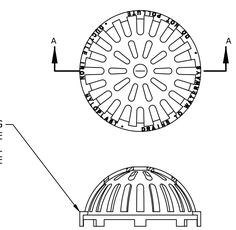


NOTES:

1. DRAIN BASIN WITH DOME GRATE AS MANUFACTURED BY ADS NYLOPLAST
   - 1.1. DWG NO. 7001-110-397
   - 1.1. 3130 VERONA AVE. BUFORD, GA
   - 1.2. TEL: 770-932-2443
   - 1.3. FAX: 770-932-2490
   - 1.4. WWW.NYLOPLAST-US.COM
2. 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3. 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
4. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
5. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
6. ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
7. 8" - 30" DOME GRATES HAVE NO LOAD RATING.

NYLOPLAST DRAIN BASIN WITH DOME GRATE

NOT TO SCALE

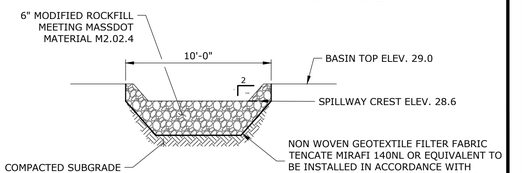


SECTION A-A

NOTE:
NYLOPLAST (*OR APPROVED EQUAL*) 18 IN DOME GRATE TO BE USED WHERE DRAIN IS LOCATED IN LANDSCAPED BED.

DRAIN GRATE - DOME TOP

NOT TO SCALE



RIPRAP SPILLWAY

NOT TO SCALE

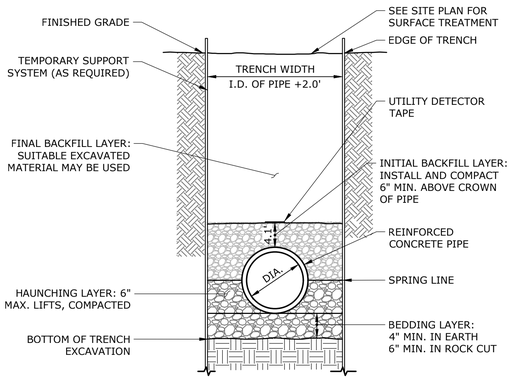
SLR
67 HUNT STREET, SUITE 203-C
AGAWAM, MA
413.241.6520
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE DETAILS
HINGHAM CENTER FOR ACTIVE LIVING
BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

AS NOTED — SCALE
DECEMBER 9, 2025 — DATE
21840.00004 — PROJECT NO.
17 OF 26 — SHEET NO.
SD-5 — SHEET NAME

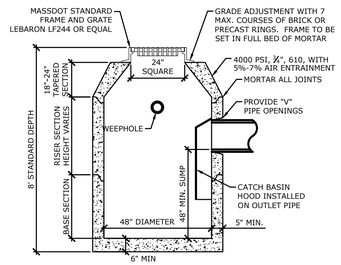


NOTES:

1. BACKFILL MATERIAL USED IN BEDDING, HAUNCHING, AND INITIAL BACKFILL LAYERS SHALL BE 3/4" CRUSHED STONE.
2. PAYMENT LIMIT FOR ROCK IN TRENCH TO BE PIPE DIAMETER + 3.0'

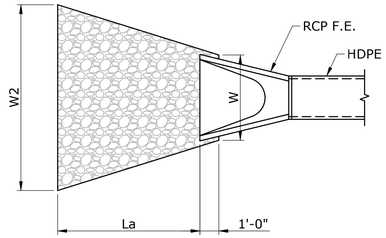
STORM DRAINAGE TRENCH

NOT TO SCALE

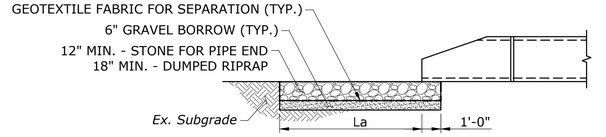


PRECAST CONCRETE CATCH BASIN

NOT TO SCALE

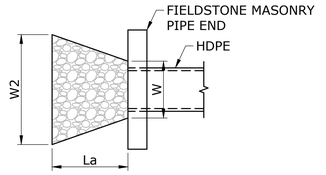


PLAN



SECTION

RCP FLARED END



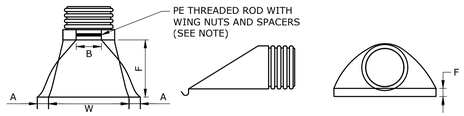
PLAN

FIELDSTONE MASONRY PIPE END

OUTLET ID	OUTLET DIAMETER (IN.)	La (FT.)	W (FT.)	W2 (FT.)	RIPRAP TYPE	
FES 7	12	10.0	3.0	7.0	M2.02.3	STONE FOR PIPE ENDS
FES 11	12	10.0	3.0	7.0	M2.02.3	STONE FOR PIPE ENDS
FES 15	15	12.0	4.0	9.0	M2.02.3	STONE FOR PIPE ENDS
FES 23	12	10.0	3.0	7.0	M2.02.3	STONE FOR PIPE ENDS
FES 27	12	10.0	4.0	8.0	M2.02.3	STONE FOR PIPE ENDS
FES 35	12	10.0	3.0	7.0	M2.02.3	STONE FOR PIPE ENDS
FES 39	12	10.0	3.0	7.0	M2.02.3	STONE FOR PIPE ENDS

STONE PIPE END DETAIL

NOT TO SCALE



TOP VIEW RIGHT SIDE VIEW FRONT VIEW

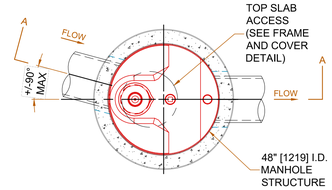
PART #	PIPE SIZE	A	B(MAX)	H	L	W
1215NP	12" &15" (300 & 375MM)	6.5" (150MM)	10" (254MM)	6.5" (165MM)	25" (635MM)	29" (737MM)

NOTES:

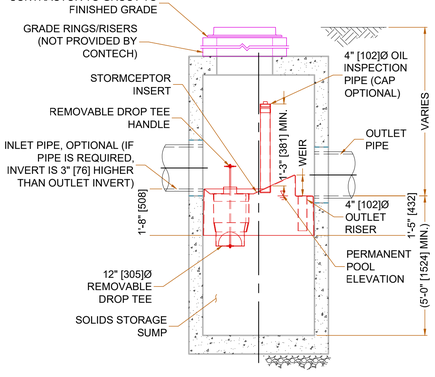
1. DIMENSIONS OF FLARED END SECTIONS ARE BASED ON ADVANCE DRAINAGE SYSTEMS INC. (ADS) SPECIFICATIONS. TEL. (800)-821-6710

HDPE FLARED END SECTION

NOT TO SCALE



PLAN VIEW
TOP SLAB NOT SHOWN



SECTION A-A

STORMCEPTOR STC 450i

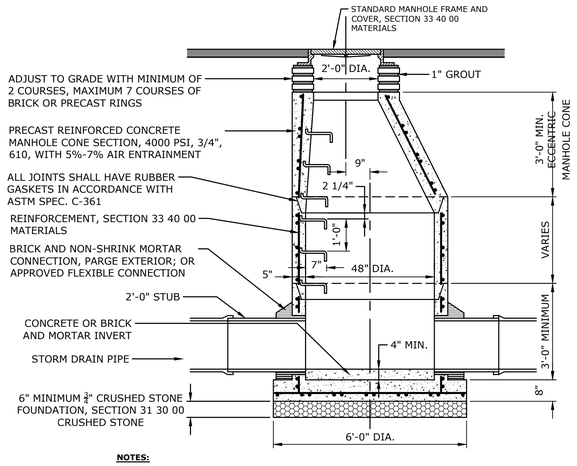
NOT TO SCALE

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. STORMCEPTOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STORMCEPTOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. STORMCEPTOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMCEPTOR MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH STORMCEPTOR DETAILS & NOTES

NOT TO SCALE

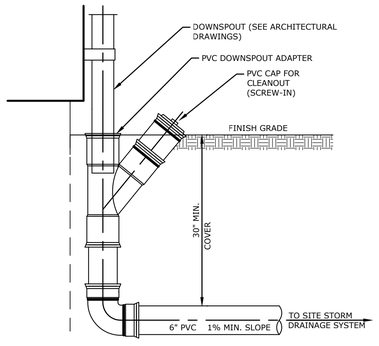


NOTES:

1. 5' OR 6' DIAMETER PRECAST BASES MAY BE REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' OR 6' BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS TO INCREASE BY 1" FOR EACH 1'-0" OF INSIDE DIAMETER.

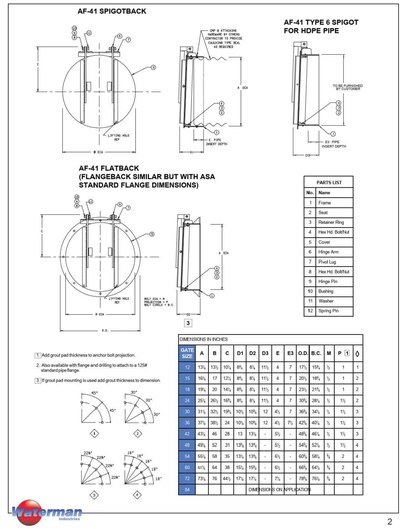
PRECAST CONCRETE STORM DRAINAGE MANHOLE

NOT TO SCALE



6" PVC DOWNSPOUT CONNECTION

NOT TO SCALE



FLAP GATE SPEC SHEET

NOT TO SCALE

SLR
67 HUNT STREET, SUITE 203-C
AGAWAM, MA
413.241.6520
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE DETAILS
HINGHAM CENTER FOR ACTIVE LIVING
BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

AS NOTED
SCALE

DECEMBER 9, 2025
DATE

21840.00004
PROJECT NO.

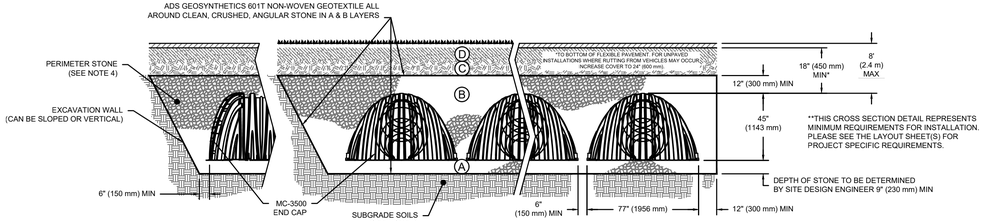
18 OF 26
SHEET NO.

SD-6
SHEET NAME

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 18" (450 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

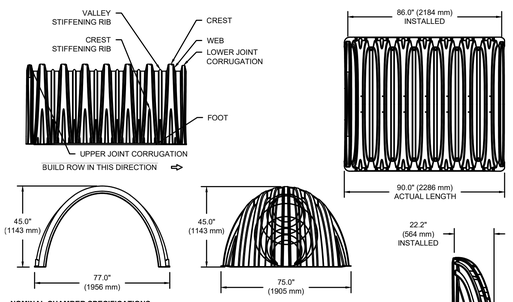
PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

1 MC-3500 CROSS SECTION DETAIL



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

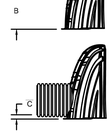
SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" (152 mm) STONE BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"

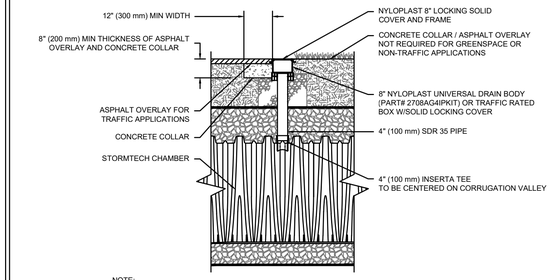
PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.65" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PARTIAL CUT INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

2 MC-3500 TECHNICAL SPECIFICATIONS



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4 4" PVC INSPECTION PORT DETAIL (MC SERIES CHAMBER)

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

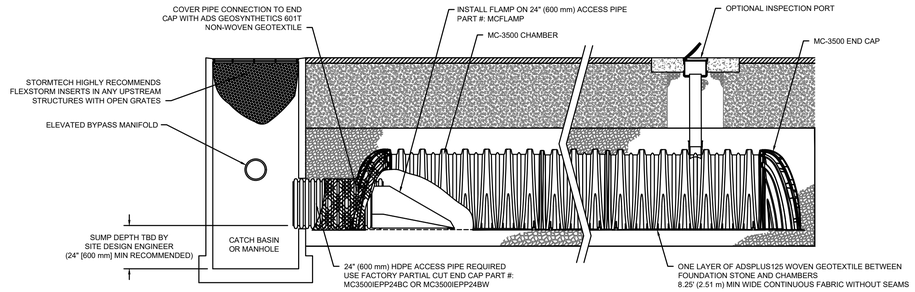
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



3 MC-3500 ISOLATOR ROW PLUS DETAIL

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

SLR
67 HUNT STREET, SUITE 203-C
AGAWAM, MA
413.241.6520
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE DETAILS
HINGHAM CENTER FOR ACTIVE LIVING
BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

AS NOTED (SCALE)
DECEMBER 9, 2025 (DATE)
21840.00004 (PROJECT NO.)
19 OF 26 (SHEET NO.)
SD-7 (SHEET NAME)

GENERAL NOTES

1. ALLOWABLE DESIGN STRESSES:
   PCC04460 BASED ON f'c = 4,400 psi
2. DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.
3. THE CONTRACTOR SHALL OBTAIN A BUILDING PERMIT PRIOR TO THE BEGINNING OF WORK.
4. ALL NAILS, SCREWS, CONNECTORS, BRACKETS, PLATES, AND FASTENERS ARE TO BE HOT-DIP GALVANIZED.
5. BOARDWALK IS TO HAVE FOOTINGS AS SHOWN IN DETAILS ON THIS SHEET.

CONCRETE NOTES

1. PCC04460 CONCRETE: CONCRETE SHALL BE USED FOR ABUTMENT, UTILITY PAD, STAIRS AND ALL OTHER SITE ITEMS UNLESS NOTED OTHERWISE.
2. EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"x1" UNLESS DIMENSIONED OTHERWISE.
3. CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.
4. REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.
5. CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

FASTENING NOTES

1. JOISTS TO POSTS - 1/2"Ø LAG BOLTS & 3/4"Ø THRU BOLTS AS SHOWN ON DETAILS.
2. DECKING TO JOISTS - 3" GALVANIZED SCREWS.
3. RAILINGS TO POSTS - 3" GALVANIZED SCREWS.

BOARDWALK

PART 1 - GENERAL

DESCRIPTION OF WORK:

BOARDWALK CONSTRUCTION INCLUDES THE FOLLOWING TYPES OF WORK:

- TIMBER RAILING
- TIMBER STAIR FRAMING
- CONCRETE ABUTMENTS
- CONCRETE PIERS
- TIMBER FRAMING
- COMPOSITE DECKING
- TIMBER COLUMNS

REFERENCES

LUMBER STANDARDS: COMPLY WITH PS 20 AND WITH APPLICABLE RULES OF THE RESPECTIVE GRADING AND INSPECTING AGENCIES FOR SPECIES AND PRODUCTS INDICATED.

SUBMITTALS

PRODUCT DATA: SUBMIT MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR MATERIALS LISTED BELOW:

WOOD TREATMENT DATA: SUBMIT TREATMENT MANUFACTURER'S INSTRUCTIONS FOR PROPER USE OF EACH TYPE OF TREATED MATERIAL.

PRESSURE TREATMENT: FOR EACH TYPE SPECIFIED, INCLUDE CERTIFICATION BY TREATING PLANT STATING CHEMICALS AND PROCESS USED, NET AMOUNT OF PRESERVATIVE RETAINED AND CONFORMANCE WITH APPLICABLE STANDARDS.

PRODUCT HANDLING

DELIVERY AND STORAGE: KEEP MATERIALS DRY AT ALL TIMES. PROTECT AGAINST EXPOSURE TO WEATHER AND CONTACT WITH DAMP OR WET SURFACES. STACK LUMBER AND PLYWOOD, AND PROVIDE AIR CIRCULATION WITHIN STACKS.

PART 2 - PRODUCTS

MATERIALS

LUMBER, GENERAL

FACTORY MARK EACH PIECE OF LUMBER WITH TYPE, GRADE, MILL AND GRADING AGENCY, EXCEPT OMIT MARKING FROM SURFACES TO BE EXPOSED WITH TRANSPARENT FINISH OR WITHOUT FINISH.

NOMINAL SIZES ARE INDICATED, EXCEPT AS SHOWN BY DETAIL DIMENSIONS. PROVIDE ACTUAL SIZES AS REQUIRED BY PS 20, FOR MOISTURE CONTENT SPECIFIED FOR EACH USE.

PROVIDE DRESSED LUMBER, S4S, UNLESS OTHERWISE INDICATED.

PROVIDE SEASONED LUMBER WITH 19% MAXIMUM MOISTURE CONTENT AT THE TIME OF DRESSING.

PROVIDE SOUTHERN PINE LUMBER, FOR FRAMING.

POSTS SHALL RUN FULL HEIGHT AND NO SPLICING ALLOWED.

MISCELLANEOUS MATERIALS

FASTENERS AND ANCHORAGES: PROVIDE SIZE, TYPE, MATERIAL AND FINISH AS INDICATED AND AS RECOMMENDED BY APPLICABLE STANDARDS, COMPLYING WITH APPLICABLE FEDERAL SPECIFICATIONS FOR NAILS, STAPLES, SCREWS, BOLTS, NUTS, WASHERS AND ANCHORING DEVICES. PROVIDE METAL HANGERS AND FRAMING ANCHORS OF THE SIZE AND TYPE RECOMMENDED BY THE MANUFACTURER FOR EACH USE INCLUDING RECOMMENDED NAILS. PROVIDE FASTENERS AND ANCHORAGES WITH A HOT-DIP ZINC COATING (ASTM A 153).

WOOD PRESERVATIVE TREATMENT: 0.40 CCA PER AWPA STANDARDS C2.

PART 3 - EXECUTION

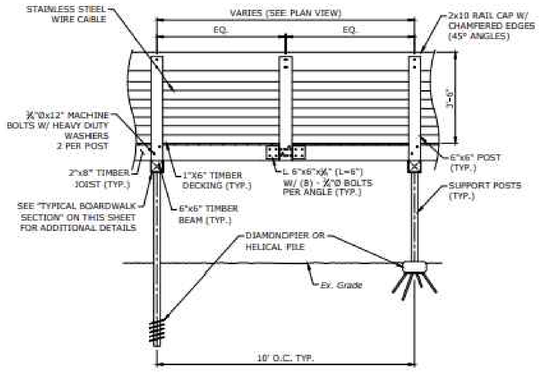
MATERIALS, GENERAL

DISCARD UNITS OF MATERIAL WITH DEFECTS WHICH MIGHT IMPAIR QUALITY OF WORK, AND UNITS WHICH ARE TOO SMALL TO USE IN FABRICATING WORK WITH MINIMUM JOINTS OR OPTIMUM JOINT ARRANGEMENTS.

SET CARPENTRY WORK ACCURATELY TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB AND TRUE AND ACCURATELY CUT AND FITTED.

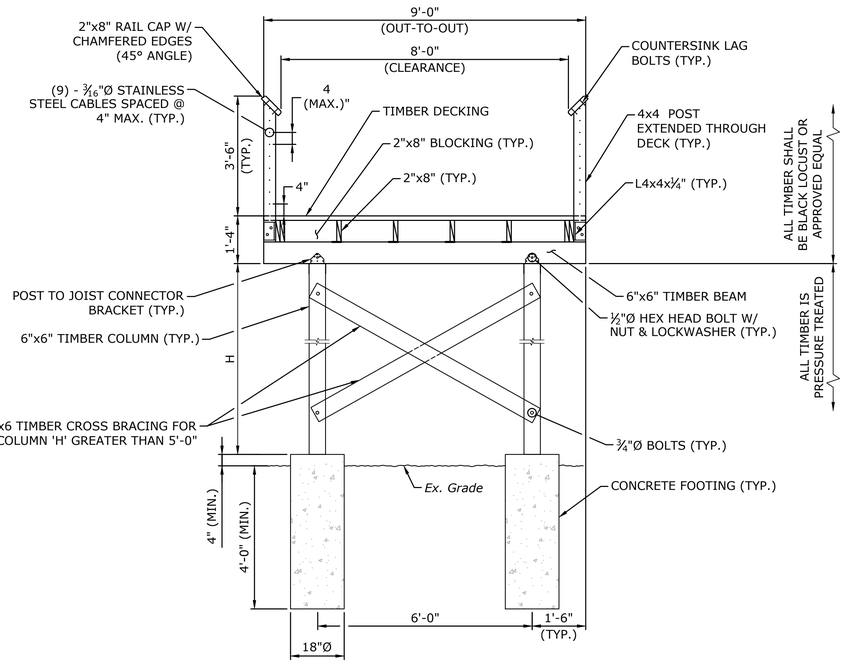
SECURELY ATTACH CARPENTRY WORK TO SUBSTRATE BY ANCHORING AND FASTENING AS SHOWN AND AS REQUIRED BY RECOGNIZED STANDARDS. COUNTERSINK SCREW AND NAIL HEADS ON EXPOSED CARPENTRY WORK AND RILL HOLES. SELECT FASTENERS OF SIZE THAT WILL NOT PENETRATE MEMBERS WHERE OPPOSITE SIDE WILL BE EXPOSED TO VIEW. MAKE TIGHT CONNECTIONS BETWEEN MEMBERS. INSTALL FASTENERS WITHOUT SPLITTING OF WOOD; PRE-DRILL AS REQUIRED.

ADA ACCESSIBILITY THE ENTIRE BOARDWALK IS TO BE HANDICAP ACCESSIBLE. CONTRACTOR TO MAINTAIN EXISTING ELEVATIONS.



TYPICAL BOARDWALK ELEVATION

SCALE: ½"=1'-0"



TYPICAL BOARDWALK SECTION

SCALE: ½"=1'-0"

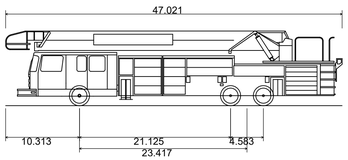
SLR
67 HUNT STREET, SUITE 203-C
AGAWAM, MA
413.241.6520
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE DETAILS
HINGHAM CENTER FOR ACTIVE LIVING
BARE COVE PARK DRIVE
HINGHAM, MA

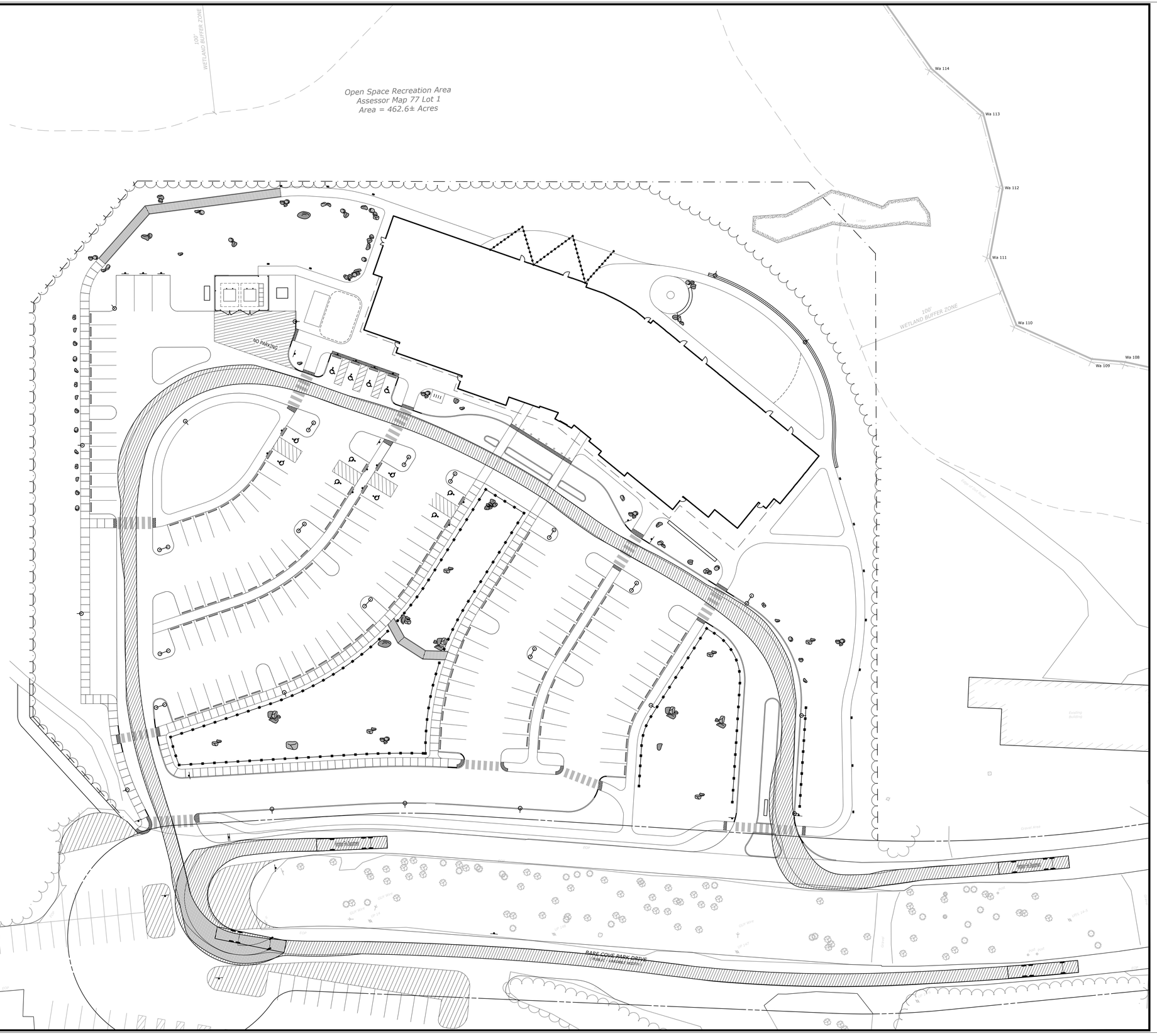
AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

AS NOTED — SCALE
DECEMBER 9, 2025 — DATE
21840.00004 — PROJECT NO.
20 OF 26 — SHEET NO.
SD-8 — SHEET NAME



Hingham Fire Department

Overall Length	47.021ft
Overall Width	8.000ft
Overall Body Height	10.432ft
Min Body Ground Clearance	0.862ft
Track Width	8.000ft
Lock-to-lock time	4.00s
Max Steering Angle (Virtual)	40.00°



SLR
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AGAWAM, MA
413.241.6520
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

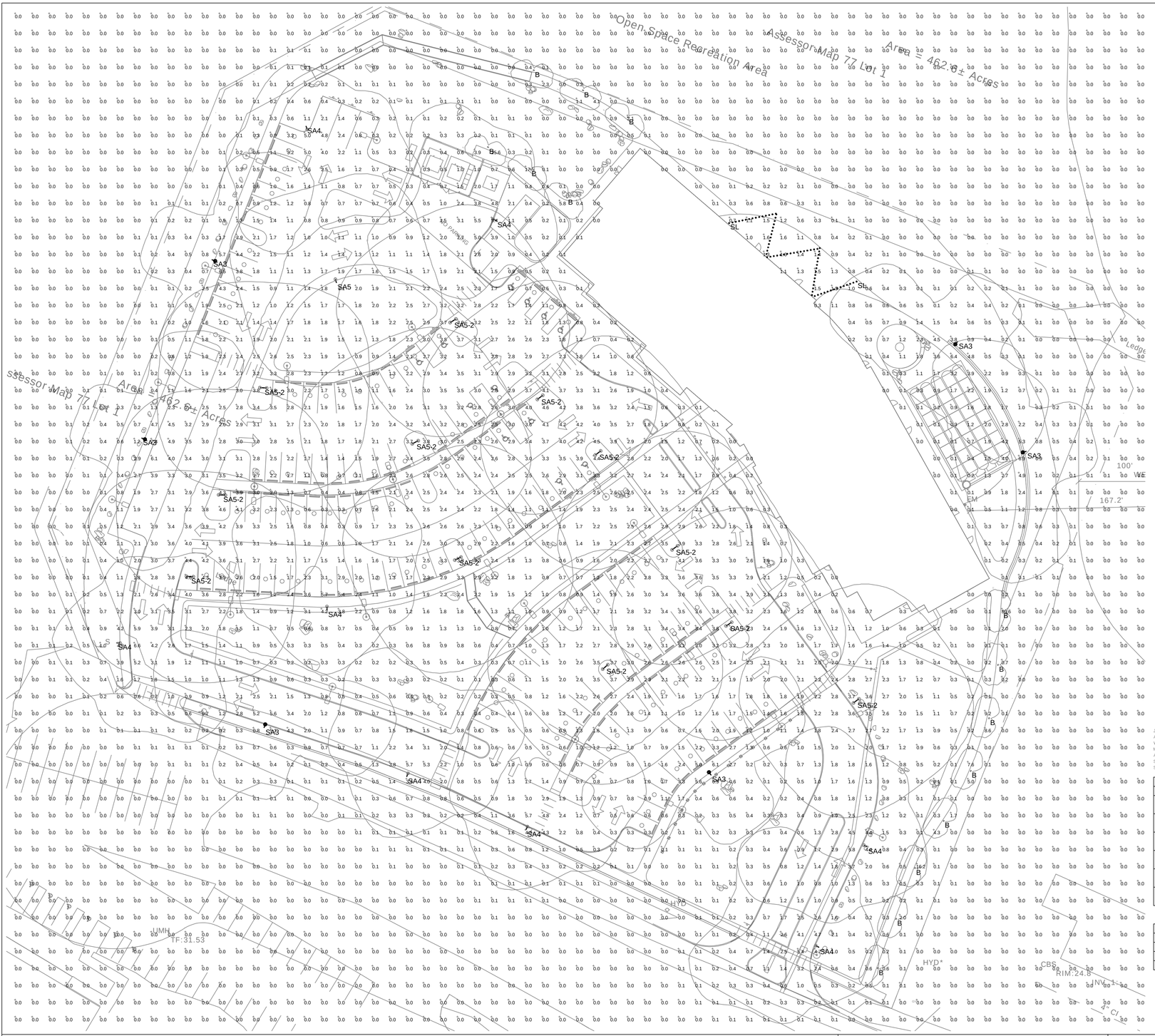
VEHICLE TURNING MOVEMENT - HINGHAM FIRE TRUCK

HINGHAM CENTER FOR ACTIVE LIVING

BARE COVE PARK DRIVE
HINGHAM, MA

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

SCALE	1"=30'
DATE	DECEMBER 9, 2025
PROJECT NO.	21840.00004
SHEET NO.	21 OF 26
SHEET NAME	VH



JOB NAME: HINGHAM CENTER FOR ACTIVE LIVING - HINGHAM,MA
APEX LIGHTING SOLUTIONS
WORKPLANE/CALC PLANE: AT FINISH GRADE
MOUNTING HEIGHT: SEE LUMINAIRE SCHEDULE
APPS: LED/PD
SALES: SP
SPECIFIER: SLR CONSULTING

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Lum. Lumens	Lum. Watts	LLF	Description	Mounting Info	[MANUFAC]	Filename
	14	B	Single	1368	14.5	0.850	PSY424 LED 114-0134	3ft LC	WE-EF USA	114-0134_us.ies
	6	SA3	Single	8723	68.7	0.850	KAR-64-32-3-70-T3-1-S-FINISH / S-200040406Y4-D1-FINISH-24in long straight arm	20ft Pole / 18ft LC	RAGNI	KARINA-T3-32LED-3000K-700 mA.IES
	8	SA4	Single	8723	68.7	0.850	KAR-64-32-3-70-T4-1-S-FINISH / S-200040406Y4-D1-FINISH-24in long straight arm	20ft Pole / 18ft LC	RAGNI	KARINA-T4-32LED-3000K-700 mA.IES
	1	SA5	Single	8723	68.7	0.850	KAR-64-32-3-70-T5-1-S-FINISH / S-200040406Y4-D1-FINISH-24in long straight arm	20ft Pole / 18ft LC	RAGNI	KARINA-T5-32LED-3000K-700 mA.IES
	12	SA5-2	Back-Back	8723	68.7	0.850	KAR-64-32-3-70-T5-1-S-FINISH / S-200040406Y6-D2@180-FINISH-24in long straight arm	20ft Pole / 18ft LC	RAGNI	KARINA-T5-32LED-3000K-700 mA.IES
	73	SL	Single	74	1.47	0.850	LSS-BK-24-HO-30K-FRSO-PS-120 // Mounted to three 10ft tall 4in round steel poles	9ft LC	CORE ARCHITECTURAL	LOS15047O4.IES

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Description
Site	Illuminance	Fc	0.79	30.6	0.0	N.A.	N.A.	10ft Grid
Entry Drive	Illuminance	Fc	2.12	5.8	0.6	3.53	9.67	10ft Grid
Parking Lot	Illuminance	Fc	2.22	6.6	0.3	7.40	22.00	10ft Grid

GENERAL DISCLAIMER:

Calculations have been performed according to IES standards and good practice Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting calculations. If the real environment conditions do not match the input data, differences will occur between measured values and calculated values.

* LLF Determined Using Current Published Lamp Data

NOTE TO REVIEWER:

Total Light Loss Factor (LLF) applied at time of design is determined by applying the Lamp Lumen Depreciation (LLD) from current lamp manufacturer's catalog, a Luminaire Dirt Depreciation Factor (LDD) based on IES recommended values and a Ballast Factor (BF) from current ballast specification sheets. Application of an incorrect Light Loss Factor (LLF) will result in forecasts of performance that will not accurately depict actual results.

For proper comparison of photometric layouts, it is essential that you insist all designers use correct Light Loss Factors.

APEX LIGHTING SOLUTIONS
20-30 BEAVER ROAD, WETHERSFIELD, CT 06109
TELEPHONE 860.632.8766 / WWW.APEXLTG.COM

PROJECT TITLE:

HINGHAM CENTER FOR ACTIVE LIVING
HINGHAM, MA

DRAWING TITLE:

SITE LIGHTING
PHOTOMETRIC CALCULATION

FILE NAME: 2025-12-05 SL-1 HINGHAM CENTER FOR ACTIVE LIVING - HINGHAM, MA.dwg

SCALE : 1"=30'-0"

DATE: 12/5/25

DRAWN BY: LED/PD

SHEET:

SL-1

1 FLOOR PLAN
OVERALL

3/32" = 1'-0"

edm studio

CLIENT NAME
TOWN OF HINGHAM

PROJECT TITLE
HINGHAM CENTER FOR ACTIVE LIVING

PROJECT ADDRESS
BARE COVE PARK
HINGHAM, MA 02043

PROJECT NUMBER
HNG - 24015

REVISIONS

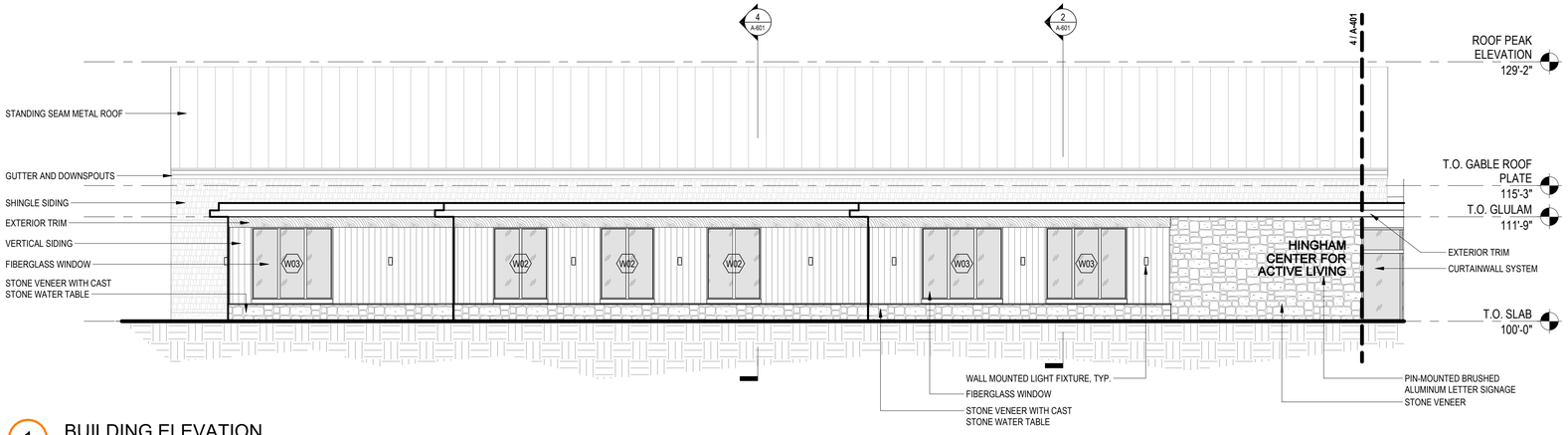
number	date	issued for	by

STAMP

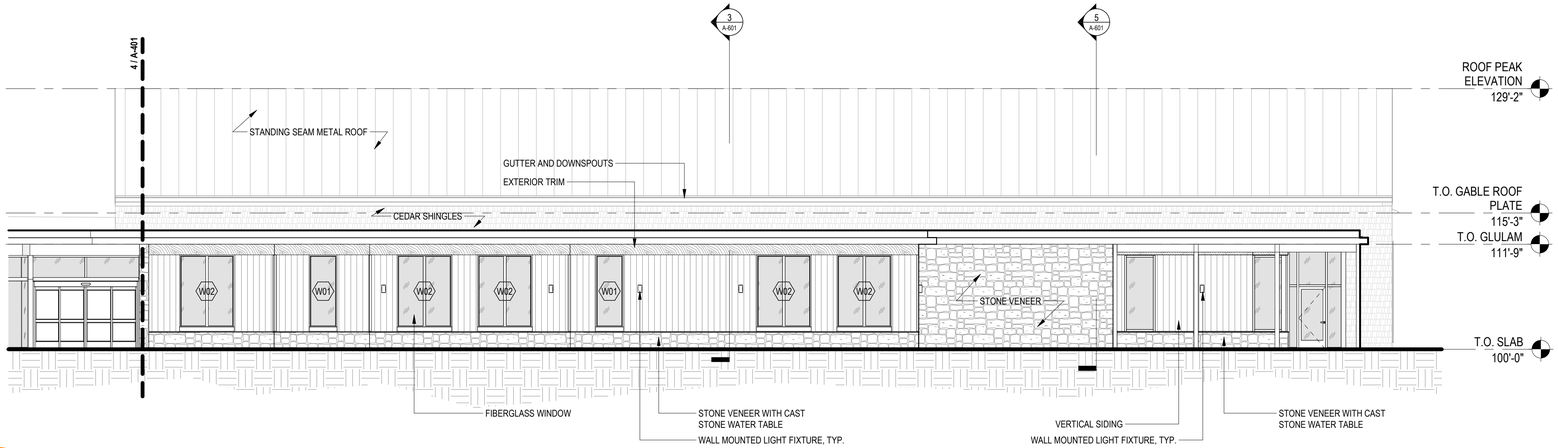
DRAWING TITLE
FLOOR PLAN

DRAWING SCALE: 3/32" = 1'-0"
ISSUE DATE: 12.05.25

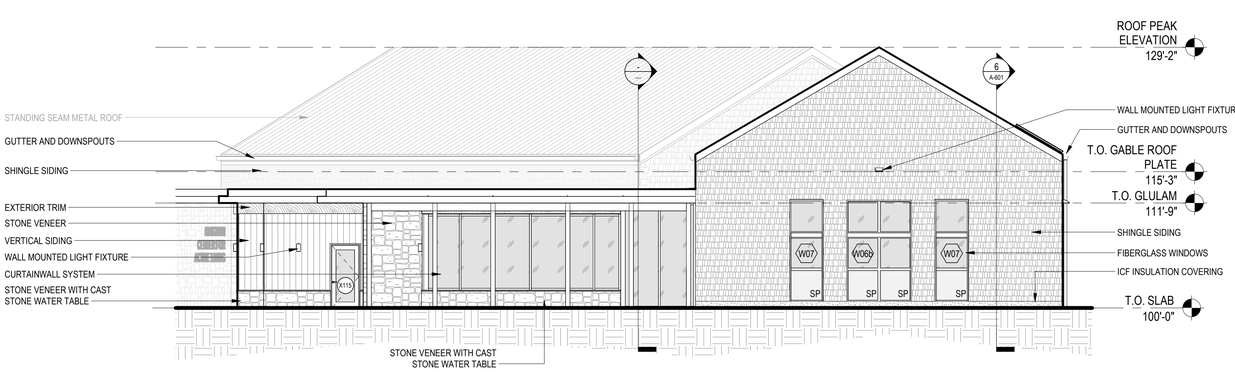
DRAWING NUMBER
A-101



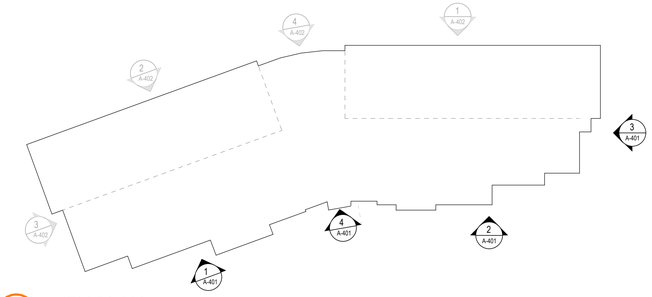
1 BUILDING ELEVATION
SOUTH - WEST WING
1/8" = 1'-0"



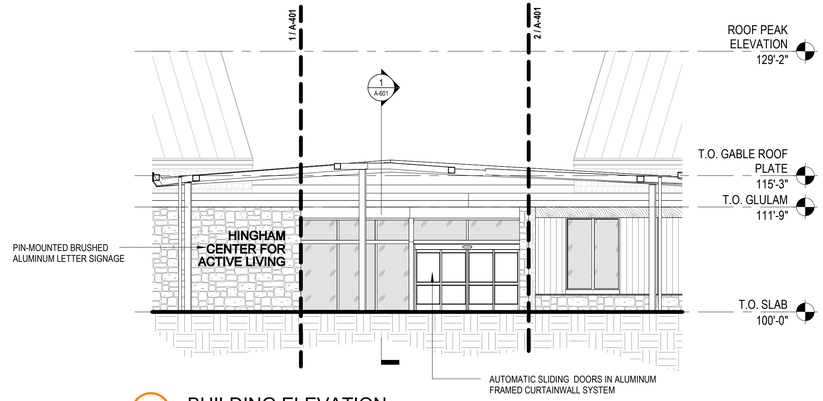
2 BUILDING ELEVATION
SOUTH - EAST WING
1/8" = 1'-0"



3 BUILDING ELEVATION
EAST
1/8" = 1'-0"



5 KEY PLAN
BUILDING ELEVATIONS A-401
1" = 40'-0"



4 BUILDING ELEVATION
SOUTH - CENTER
1/8" = 1'-0"

EXTERIOR ELEVATION GENERAL NOTES

1. REFER TO ELECTRICAL LIGHTING PLAN FOR FIXTURE TYPES AND LEGEND.
2. REFER TO FINISH SCHEDULE AND MATERIAL LIST FOR FINISHES, HEIGHTS (NOT INDICATED HERE) AND OTHER CEILING INFO.

edm STUDIO

CLIENT NAME
TOWN OF HINGHAM

PROJECT TITLE
HINGHAM CENTER FOR ACTIVE LIVING

PROJECT ADDRESS
BARE COVE PARK
HINGHAM, MA 02043

PROJECT NUMBER
HNG - 24015

REVISIONS

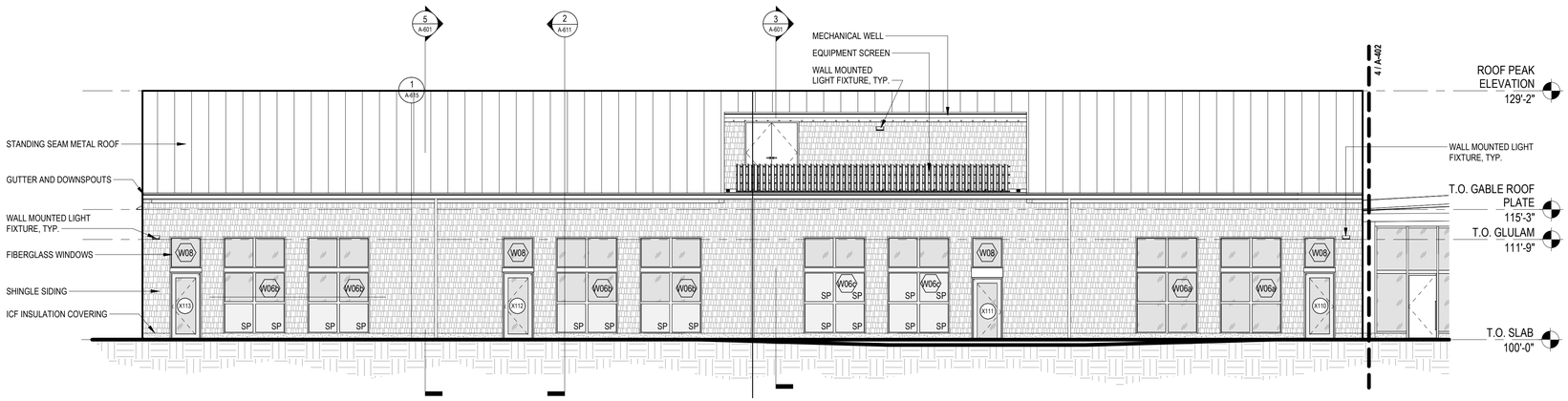
number	date	issued for	by

STAMP

DRAWING TITLE
EXTERIOR ELEVATIONS

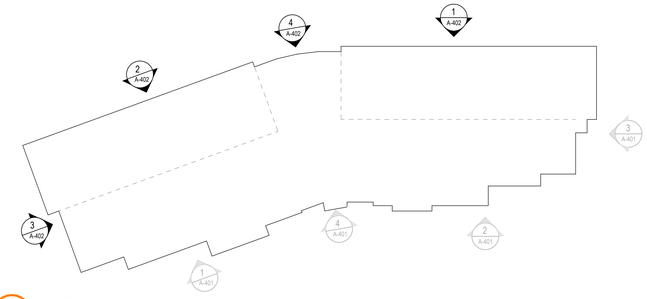
DRAWING SCALE: As indicated
ISSUE DATE: 12.05.25

DRAWING NUMBER
A-401



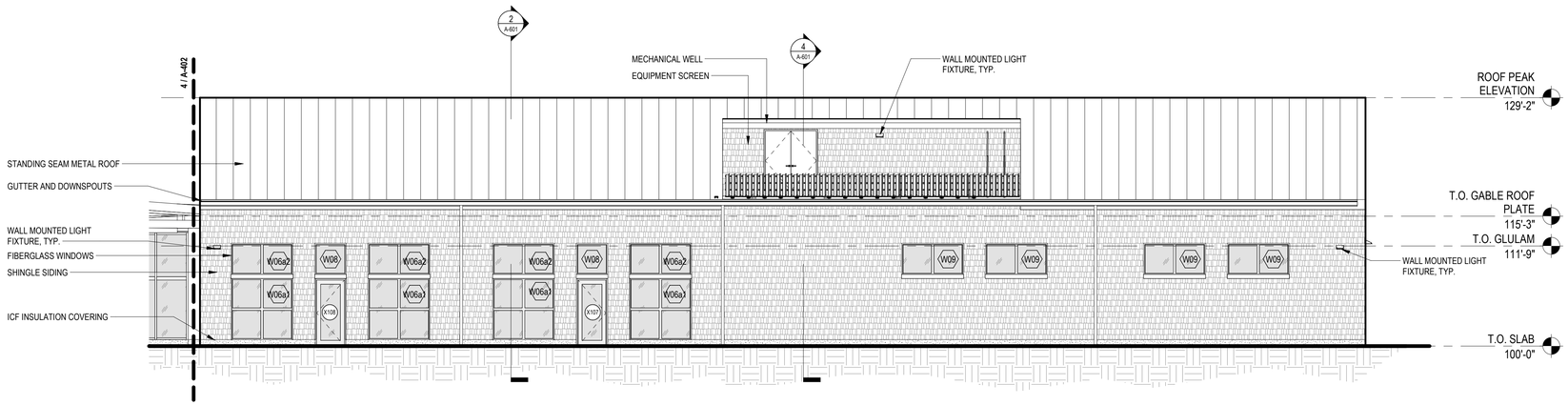
1 BUILDING ELEVATION
NORTH - EAST WING

1/8" = 1'-0"



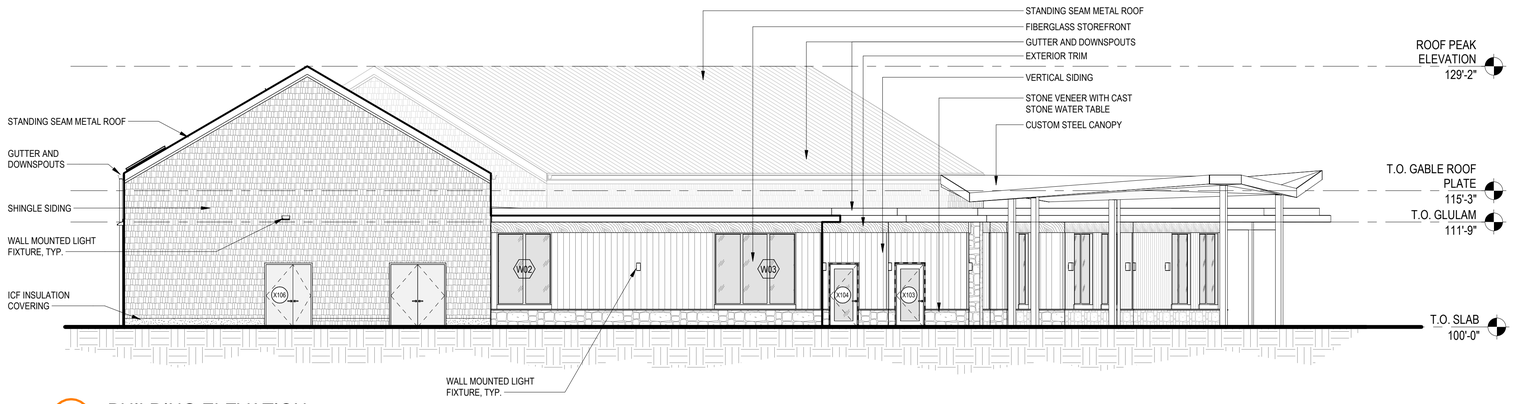
5 KEY PLAN
BUILDING ELEVATIONS A-402

1" = 40'-0"



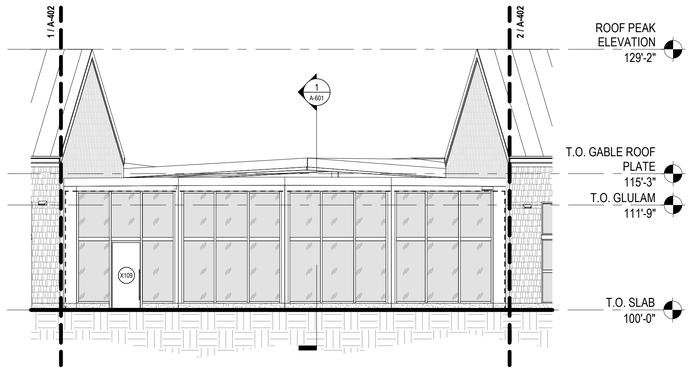
2 BUILDING ELEVATION
NORTH - WEST WING

1/8" = 1'-0"



3 BUILDING ELEVATION
WEST

1/8" = 1'-0"



4 BUILDING ELEVATION
NORTH - CENTER

1/8" = 1'-0"

EXTERIOR ELEVATION GENERAL NOTES

1. REFER TO ELECTRICAL LIGHTING PLAN FOR FIXTURE TYPES AND LEGEND.
2. REFER TO FINISH SCHEDULE AND MATERIAL LIST FOR FINISHES, HEIGHTS (NOT INDICATED HERE) AND OTHER CEILING INFO.

edm STUDIO

CLIENT NAME
TOWN OF HINGHAM

PROJECT TITLE
HINGHAM CENTER FOR ACTIVE LIVING

PROJECT ADDRESS
BARE COVE PARK
HINGHAM, MA 02043

PROJECT NUMBER
HNG - 24015

REVISIONS

number	date	issued for	by

STAMP

DRAWING TITLE
EXTERIOR ELEVATIONS

DRAWING SCALE: As indicated
ISSUE DATE: 12.05.25

DRAWING NUMBER
A-402

edm STUDIO

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TOWN OF HINGHAM

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HINGHAM CENTER FOR ACTIVE LIVING

PROJECT ADDRESS
BARE COVE PARK
HINGHAM, MA 02043

PROJECT NUMBER
HNG - 24015

REVISIONS

number	date	issued for	by

STAMP

DRAWING TITLE
VIEW OF SOUTHEAST CORNER

DRAWING SCALE

ISSUE DATE
12.05.25

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