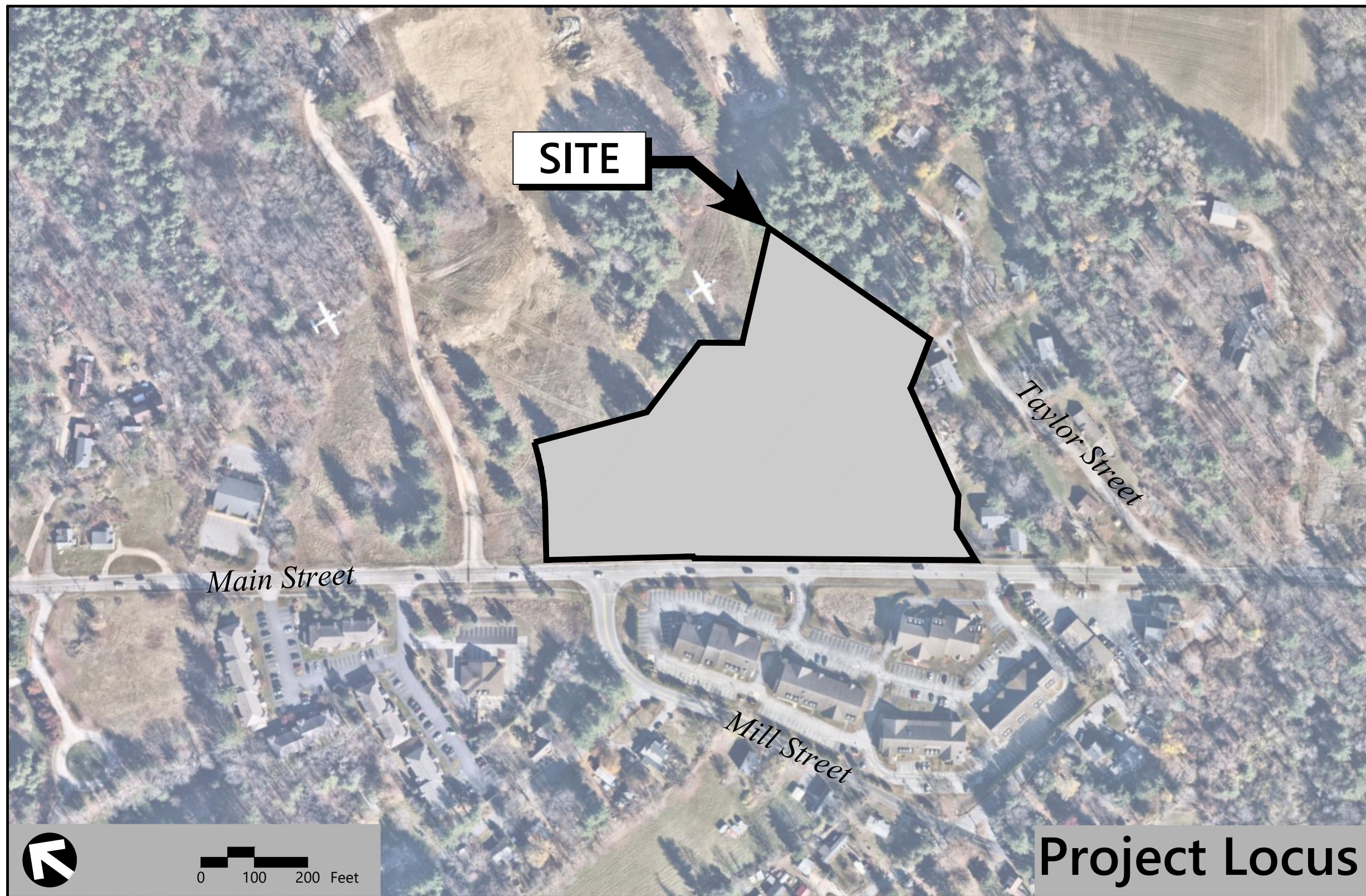


Site Plans

Issued for	Local Approvals
Date Issued	June 23, 2025
Latest Issue	July 31, 2025

Nashoba Satellite Emergency Facility

490 Main Street
Groton, MA



120 Front Street
Suite 500
Worcester, MA 01608
508.752.1001

Architect

SLAM
80 Glastonbury Boulevard
Glastonbury, CT 06033-4410
860.657.8077

General Contractor

The Whiting-Turner Contracting Company
300 East Joppa Road
Baltimore, MD 21286
410.821.1100

Surveyor

Dillis & Roy
1 Main Street,
Suite 1
Lunenburg, MA 01462
978.779.6091

MEP

Consulting Engineering Services, LLC
128 Carnegie Row,
Suite 104
Norwood, MA 02062
617.261.7161

Wetland Scientist

Oxbow Associates Inc.
P.O. Box 971
Acton, MA 01720
978.929.9058

UMass Memorial Health Care, Inc.
Hahnemann Campus - Grosvenor Building
281 Lincoln Street
Worcester, MA 01605

Parcel ID's: 216-96, 216-98, &
216-99

Parking Summary Chart

	Required	Provided
Current Project	57 - 95 Spaces	74 Spaces
Current Project + Future Project	136 - 252 Spaces	145 Spaces
Land Banked Spaces	-	10 Spaces
Parking Requirements: Current Project Minimum		
OUT-PATIENT CLINICS	19 TREATMENT AREAS x 3 SPACES	= 57 SPACES
	TOTAL PARKING REQUIRED	= 57 SPACES
Parking Requirements: Current Project Maximum		
OUT-PATIENT CLINICS	19 TREATMENT AREAS x 5 SPACES	= 95 SPACES
	TOTAL PARKING REQUIRED	= 95 SPACES
* MINIMUM REQUIREMENT PER 1,000 SF OF OUT-PATIENT CLINIC AREA OF 3 SPACES (MIN. CRITERIA) OR 5 SPACES (MAX. CRITERIA)		
Parking Requirements: Potential Future Project Minimum		
MEDICAL OFFICE BUILDING	15,700 SF x 5 SPACES / 1,000 SF	= 79 SPACES
	TOTAL PARKING REQUIRED	= 79 SPACES
Parking Requirements: Potential Future Project Maximum		
MEDICAL OFFICE BUILDING	15,700 SF x 10 SPACES / 1,000 SF	= 157 SPACES
	TOTAL PARKING REQUIRED	= 157 SPACES
* MINIMUM REQUIREMENT PER 1,000 SF OF MEDICAL OFFICE BUILDING AREA OF 5 SPACES (MIN. CRITERIA) OR 10 SPACES (MAX. CRITERIA)		

Sheet Index

No.	Drawing Title	Latest Issue
C101	Legend and General Notes	July 31, 2025
C201	Project Delineation Plan	July 31, 2025
C301	Erosion and Sedimentation Control Plan	July 31, 2025
C401	Layout and Materials Plan	July 31, 2025
C402	Fire Access and Circulation Plan	July 31, 2025
C501	Grading and Drainage Plan	July 31, 2025
C502	Buffer Zone Improvement Plan	July 31, 2025
C601	Utility Plan	July 31, 2025
C701	Helipad Site Plan	July 31, 2025
C702	Aerial Site Plan and Approach & Departure Plan	July 31, 2025
C703	Helipad Grading Plan	July 31, 2025
C801	Site Details	July 31, 2025
C802	Site Details	July 31, 2025
C803	Site Details	July 31, 2025
L101	Planting Plan	July 31, 2025
L102	Planting Enlargement Plan	July 31, 2025
L201	Planting Details	July 31, 2025
L301	Signage Plan	July 31, 2025

Reference Drawings

No.	Drawing Title	Latest Issue
SV101	Existing Conditions	June 18, 2025
	Preliminary Plan of Land	June 19, 2025
A101-PZ	First Floor Plan - PZ	June 23, 2025
A102-PZ	First Floor Plan With Potential Future Project	June 23, 2025
A301-PZ	Exterior Elevations - PZ	July 31, 2025
A302-PZ	Exterior Elevations - PZ With Potential Future Project	June 23, 2025
SL101	Site Lighting Photometric Calculation	July 31, 2025

Zoning Summary Chart

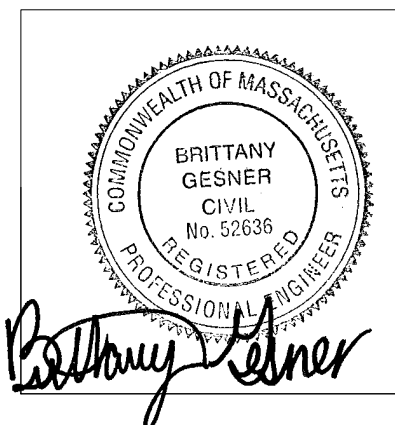
Zoning District(s):	General Business (GB)	
Overlay District(s):	None	
Zoning Regulation Requirements	Required ¹	Provided
MINIMUM LOT AREA	0 ²	6.6 Acres ³
FRONTAGE	0 ²	800 Feet
FRONT YARD SETBACK (MAX.)	20 Feet	99.3 Feet ⁴
SIDE YARD SETBACK (MIN.)	15 Feet	96.9 Feet ⁵
REAR YARD SETBACK (MIN.)	15 Feet	105.6 Feet
MAXIMUM BUILDING HEIGHT	35 Feet / 3 Stories	34.8 Feet / 1 Story
MAXIMUM IMPERVIOUS	50 %	45 %

- Zoning regulation requirements as specified in the Zoning Bylaw of the Town of Groton, Massachusetts, Chapter 218, amended through 5-01-2021.
- Per Note 2 Section 218-6.2, no minimum for nonresidential uses.
- The lot proposes to utilize all of parcels 216-98 and 216-99 and a portion of parcel 216-96 as generally shown on the draft Approval Not Required Plan attached hereto. The Applicant proposes to finalize the Approval Not Required plan should the project proposed herein be approved.
- Per Note 6 to Section 218-6.2, maximum and minimum setbacks may be waived by special permit from the Planning Board, where it finds such waiver to be harmonious with the intent of the district and the character and scale of the building's location. The Applicant is pursuing a waiver to the front yard setback maximum.
- Side yard setback identified here is to the nearest point on the building. There may be other permanent features on the site closer than this including fences, walls, and utility infrastructure.

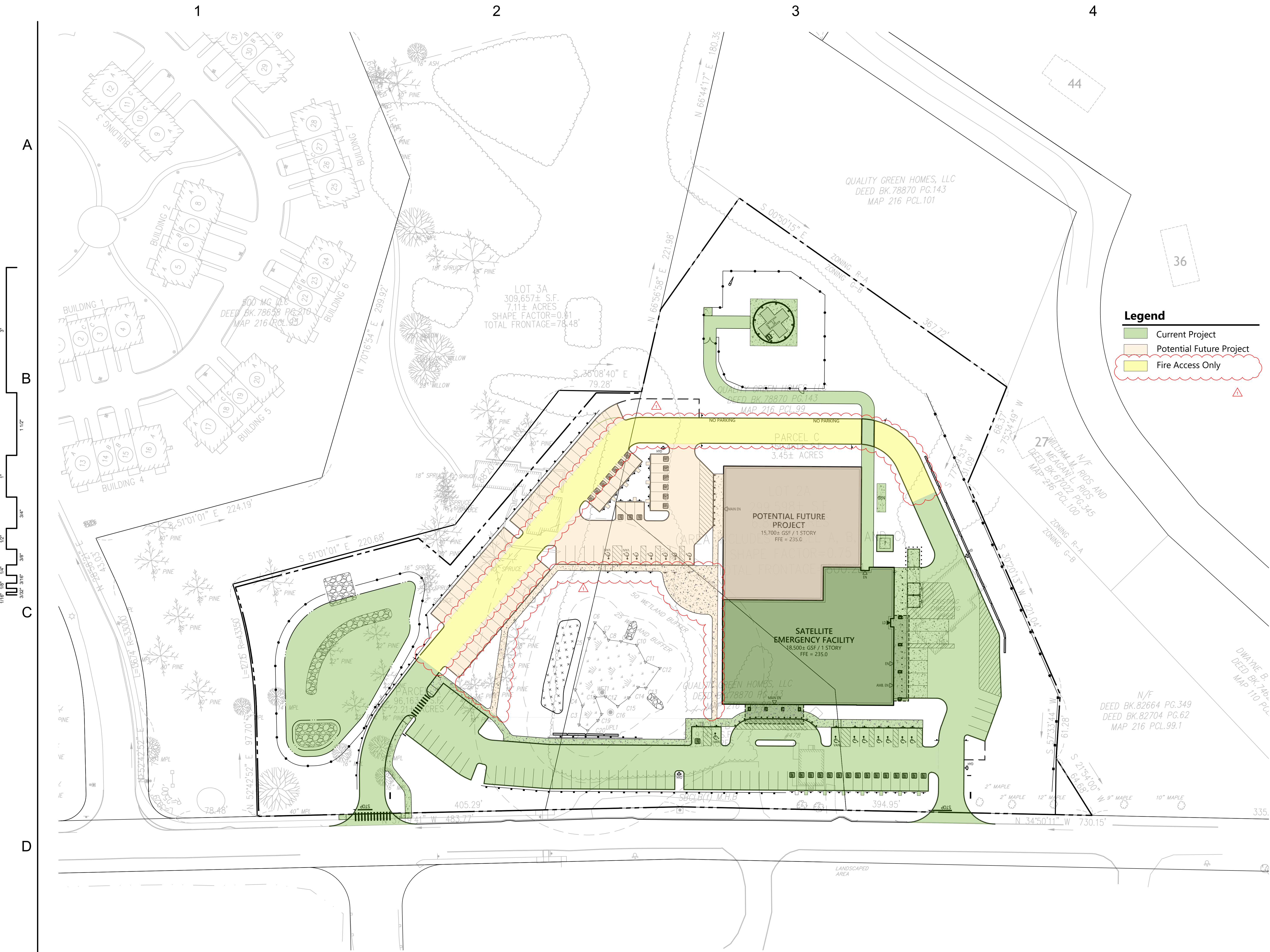
APPROVED BY THE GROTON PLANNING BOARD

DATE: _____

SIGNATURES: _____



*This Site Plan Approval does not necessarily indicate compliance with Groton Zoning Bylaw.



Drawn
CH, XF

Checked
BMG

Brittany Gesner

**UMassMemorial
Health Care**

**NASHOBA
SATELLITE
EMERGENCY
FACILITY**

**490 Main Street
Groton, MA 01450**

Number	Date	Issued For
1	7/31/25	Response to Peer Review Comments

**PROJECT DELINEATION
PLAN**

Date
06/23/2025

Scale
1" = 40'

Proj. Number
25082.00

Drawing Number
C201

1

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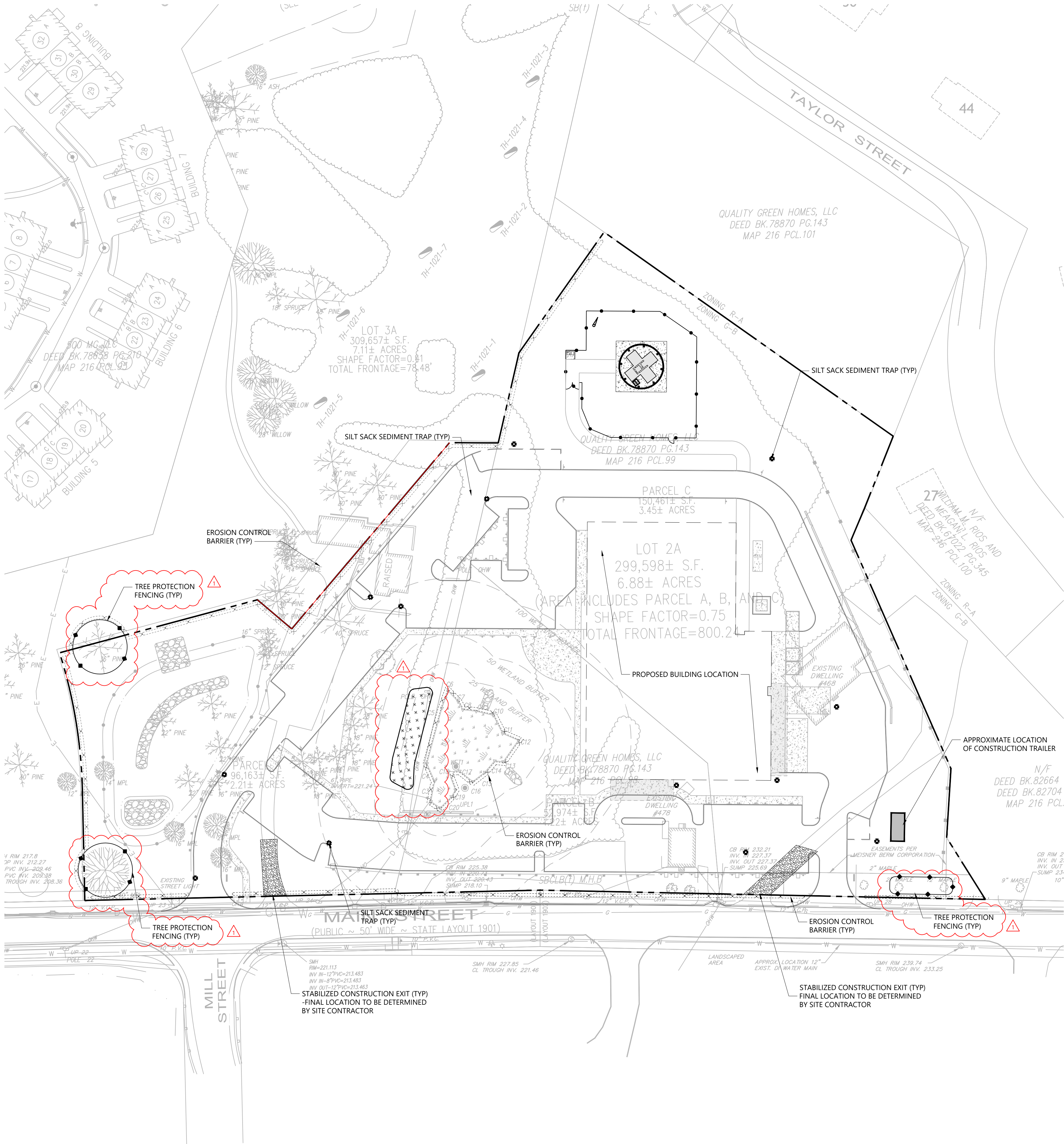
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DOCUMENT USE

THIS BASE PLAN ILLUSTRATES THE MINIMUM PERIMETER EROSION & SEDIMENTATION CONTROLS. THE SWPPP OPERATOR SHALL UPDATE THIS PLAN THROUGHOUT THE DURATION OF CONSTRUCTION TO SHOW THE LOCATIONS OF PROPOSED/CONSTRUCTED E&S CONTROLS DEEMED NECESSARY TO MEET THE REQUIREMENTS OF THE NPDES CGP.

PROJECT E&S NARRATIVE

THE PROJECT DISTURBANCE EXCEEDS 1 ACRE THEREFORE IS SUBJECT TO THE REQUIREMENTS OF THE NPDES CONSTRUCTION GENERAL PERMIT. A SWPPP WILL BE SUBMITTED BEFORE LAND DISTURBANCE BEGINS. REFER TO THE STORMWATER MANAGEMENT REPORT FOR MORE INFORMATION.

EROSION AND SEDIMENTATION CONTROL TECHNIQUES

THE EROSION AND SEDIMENTATION CONTROLS SHOWN HEREON ARE PERIMETER MEASURES ONLY AND ARE PROVIDED AS A STARTING POINT FOR CONTRACTOR'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR IS REQUIRED TO PROVIDE ADDITIONAL INTERIM EROSION AND SEDIMENTATION CONTROLS, INCLUDING BUT NOT LIMITED TO THOSE LISTED BELOW. THE CONTRACTOR SHALL MANAGE EROSION AND SEDIMENTATION DURING CONSTRUCTION TO PREVENT IMPACTS TO RESOURCE AREAS, ROADWAYS, AND ADJUTING PROPERTIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE EROSION AND SEDIMENTATION CONTROLS THROUGHOUT THE DURATION OF CONSTRUCTION.

CATCH BASIN PROTECTION

NEWLY CONSTRUCTED AND EXISTING CATCH BASINS WILL BE PROTECTED WITH SILT SACKS THROUGHOUT CONSTRUCTION.

GRAVEL AND CONSTRUCTION ENTRANCE/EXIT

A TEMPORARY CRUSHED-STONE CONSTRUCTION ENTRANCE/EXIT WILL BE CONSTRUCTED. A CROSS SLOPE WILL BE PLACED IN THE ENTRANCE TO DIRECT RUNOFF TO THE SEDIMENT TRAP.

VEGETATIVE SLOPE STABILIZATION

STABILIZATION OF OPEN SOIL SURFACES WILL BE IMPLEMENTED WITHIN 14 DAYS AFTER GRADING OR CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, UNLESS THERE IS SUFFICIENT SNOW COVER TO PROHIBIT IMPLEMENTATION. VEGETATIVE SLOPE STABILIZATION WILL BE USED TO MINIMIZE EROSION ON SLOPES. ANNUAL GRASSES, SUCH AS ANNUAL RYE, WILL BE USED TO ENSURE RAPID GERMINATION AND PRODUCTION OF ROOTMASS. PERMANENT STABILIZATION WILL BE COMPLETED WITH THE PLANTING OF PERENNIAL GRASSES OR LEGUMES. ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER MAY BE ESTABLISHED BY HYDRO-SEEDING OR SODDING, A SUITABLE TOPSOIL, GOOD SEEDBED PREPARATION, AND ADEQUATE LIME, FERTILIZER AND WATER WILL BE PROVIDED FOR EFFECTIVE ESTABLISHMENT OF THESE VEGETATIVE STABILIZATION METHODS. MULCH WILL ALSO BE USED AFTER PERMANENT SEEDING TO PROTECT SOIL FROM THE IMPACT OF FALLING RAIN AND TO INCREASE THE CAPACITY OF THE SOIL TO ABSORB WATER.

TEMPORARY SEDIMENT BASINS

TEMPORARY SEDIMENT BASINS WILL BE DESIGNED EITHER AS EXCAVATIONS OR BERMED STORMWATER DETENTION STRUCTURES (DEPENDENT ON GRADING) THAT WILL RETAIN RUNOFF FOR A SUFFICIENT PERIOD OF TIME TO ALLOW SUSPENDED SOIL PARTICLES TO SETTLE OUT PRIOR TO DISCHARGE. THESE TEMPORARY BASINS WILL BE LOCATED BASED ON CONSTRUCTION NEEDS AS DETERMINED BY THE CONTRACTOR AND OUTLET DEVICES WILL BE DESIGNED TO CONTROL VELOCITY AND SEDIMENT. POINTS OF DISCHARGE FROM SEDIMENT BASINS WILL BE STABILIZED TO MINIMIZE EROSION. AT A MINIMUM, SEDIMENTATION BASINS SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE STORAGE FOR THE VOLUME OF RUNOFF GENERATED FROM A 2-YR, 24-HR DESIGN STORM, OR AT LEAST 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINING TO THE BASIN.

STOCKPILE MANAGEMENT

SIDE-SLOPES OF STOCKPILED MATERIAL SHALL BE NO STEEPER THAN 2:1. STOCKPILES NOT USED WITHIN 30 DAYS NEED TO BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE. STRAW BALES AND SILT FENCE ARE TO BE PLACED AROUND THE STOCKPILE AREA APPROXIMATELY 10 FEET FROM THE TOE OF SLOPE.

DUST CONTROL

PERIODICALLY MOISTEN EXPOSED SURFACES ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAY DAMP AND REDUCE DUST.

TEMPORARY EROSION AND SEDIMENTATION CONTROL MAINTENANCE (THROUGHOUT CONSTRUCTION)

- CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE OCCURRENCE OF A STORM EVENT THAT PRODUCES 0.25 INCHES OR MORE OF RAIN WITHIN A 24-HOUR PERIOD, OR WITHIN 24 HOURS OF A SNOWMELT DISCHARGE FROM A STORM EVENT THAT PRODUCES 3.25 INCHES OR MORE OF SNOW WITHIN A 24-HOUR PERIOD, AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- ILT SHALL BE REMOVED FROM BEHIND BARRIERS IF GREATER THAN 6-INCHES DEEP OR AS NEEDED.
- DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION.
- SEDIMENT THAT IS COLLECTED IN PROTECTIVE MEASURES SHALL BE DISPOSED OF PROPERLY AND COVERED IF STORED ON-SITE.
- EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN SECURELY STABILIZED. AFTER REMOVAL OF STRUCTURES, DISTURBED AREAS SHALL BE REGRADED AND STABILIZED AS SOON AS POSSIBLE.
- MAINTAIN THE CONSTRUCTION EXIT IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENTS ONTO PAVED SURFACES. MAINTENANCE MAY INCLUDE TURNING THE MATERIAL IN THE EXIT OR ADDING ADDITIONAL ROCK.

INFILTRATION AREA PROTECTION DURING CONSTRUCTION

- FOR THE LONG-TERM FUNCTION OF THE INFILTRATION BASIN(S)/STRUCTURE(S), CARE SHALL BE TAKEN IN THE INFILTRATION AREAS DURING CONSTRUCTION. THE CONTRACTOR SHALL EMPLOY THE FOLLOWING MINIMUM BEST MANAGEMENT PRACTICES (BMPs):
 - INFILTRATION AREAS SHALL NOT BE USED AS TEMPORARY CONSTRUCTION SEDIMENTATION BASINS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. IF INFILTRATION AREAS ARE USED AS TEMPORARY SEDIMENTATION BASINS DURING CONSTRUCTION, THEN THE SOILS SHALL BE EXCAVATED A MINIMUM OF 2' FROM THE TEMPORARY BASIN BOTTOM TO REMOVE CLOGGED SOILS.
 - STORMWATER RUNOFF FROM EXPOSED SURFACES SHALL BE DIRECTED AWAY FROM THE INFILTRATION BASIN(S)/STRUCTURE(S) DURING CONSTRUCTION.
 - CONSTRUCTION EQUIPMENT, VEHICULAR TRAFFIC, PARKING OF VEHICLES, AND STOCKPILING OF CONSTRUCTION MATERIALS SHALL BE LOCATED OUTSIDE OF THE INFILTRATION AREAS.
 - EXCAVATION FOR CONSTRUCTION OF THE INFILTRATION BASIN(S)/STRUCTURE(S) SHALL ENSURE THAT THE SOIL AT THE BOTTOM OF THE EXCAVATION IS NOT COMPACTED OR SMEARED.
 - THE PERIMETER OF THE INFILTRATION AREAS SHALL BE STAKED AND FLAGGED TO PREVENT THE USE OF THE AREA FOR ACTIVITIES THAT MIGHT DAMAGE THE INFILTRATION ABILITY OF THE SYSTEM.
 - IF INFILTRATION AREAS ARE USED AS TEMPORARY SEDIMENTATION BASINS DURING CONSTRUCTION, THEN THE SOILS SHALL BE EXCAVATED A MINIMUM OF 2' FROM THE TEMPORARY BASIN BOTTOM TO REMOVE CLOGGED SOILS.

CONSTRUCTION PHASING PLAN

- ESTABLISH SITE EROSION CONTROLS.
- SITE DEMOLITION AND CLEARING.
- BULK EARTHWORK.
- SITE UTILITY & BUILDING CONSTRUCTION.
- SITE FINISHING: PAVING, HARDSCAPE / LANDSCAPING.

NOTE: DURING ALL PHASES OF DEMOLITION, EARTHWORK AND CONSTRUCTION, EROSION CONTROLS WILL BE MAINTAINED AND ADJUSTED AS DETAILED IN SECTION A: EROSION AND SEDIMENTATION CONTROL MEASURES.

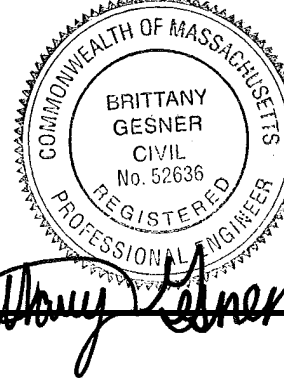


S / L / A / M Architects, Landscape Architects & Engineers, P.C.

80 Glastonbury Boulevard
Glastonbury, CT 06033-4410
Phone: 860.657.8077

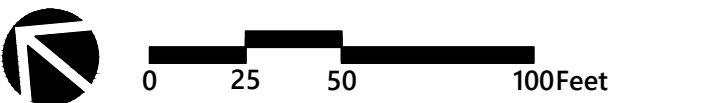
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Drawn
CH, XF
Checked
BMG



**NASHOBA
SATELLITE
EMERGENCY
FACILITY**

**490 Main Street
Groton, MA 01450**



Number	Date	Issued For
1	7/31/25	Response to Peer Review Comments

**EROSION AND
SEDIMENTATION CONTROL
PLAN**

Date
06/23/2025
Scale
1" = 50'
Proj. Number
25082.00

Drawing Number

C301

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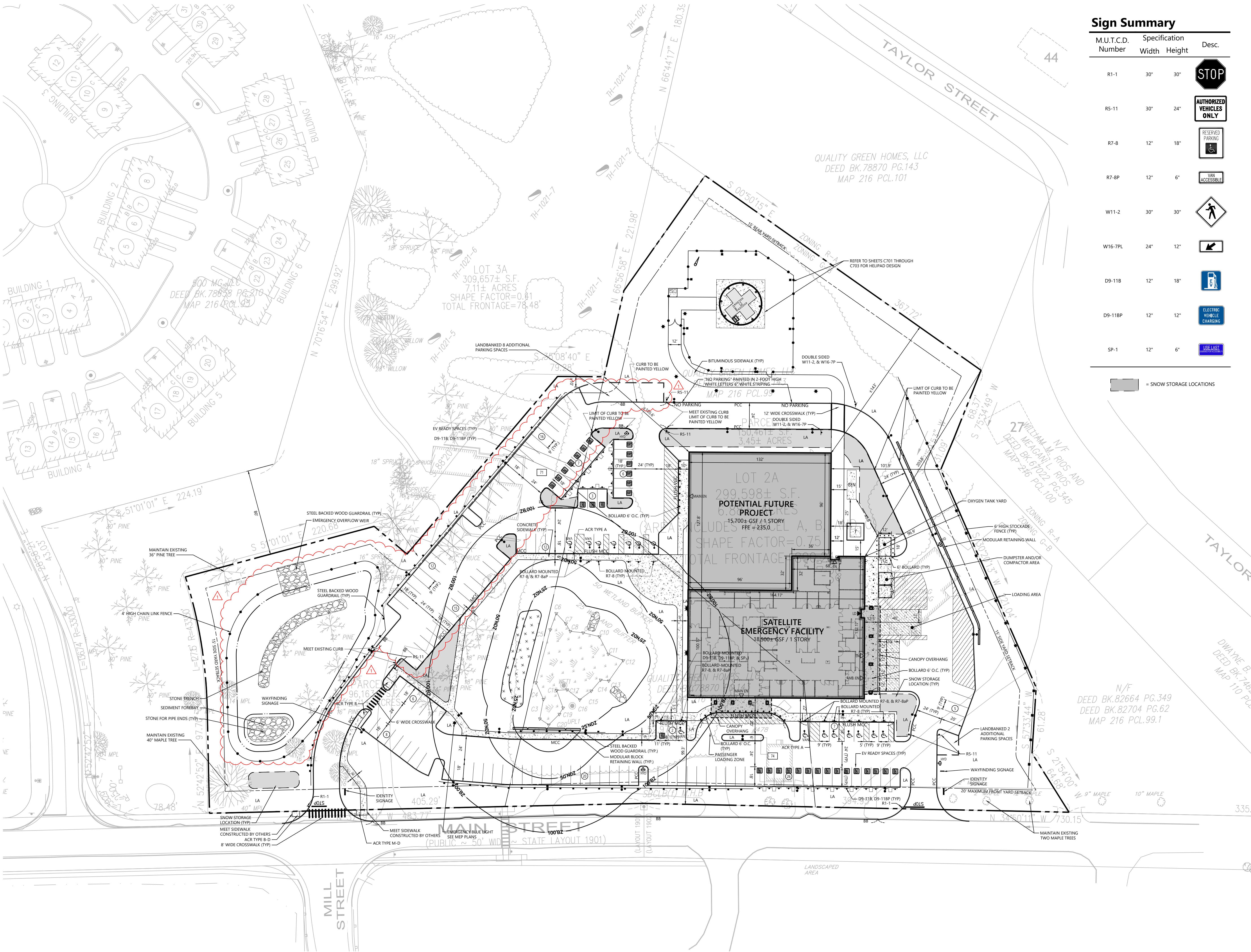
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Sign Summary

M.U.T.C.D. Number	Specification Width	Height	Desc.
R1-1	30"	30"	STOP
R5-11	30"	24"	AUTHORIZED VEHICLES ONLY
R7-8	12"	18"	RESERVED PARKING
R7-8P	12"	6"	VAN ACCESSIBLE
W11-2	30"	30"	PEDESTRIAN CROSSING
W16-7PL	24"	12"	LEFT TURN YIELD ON RED
D9-11B	12"	18"	EV READY SPACES
D9-11BP	12"	12"	ELECTRIC VEHICLE CHARGING
SP-1	12"	6"	USE LANE

■ = SNOW STORAGE LOCATIONS



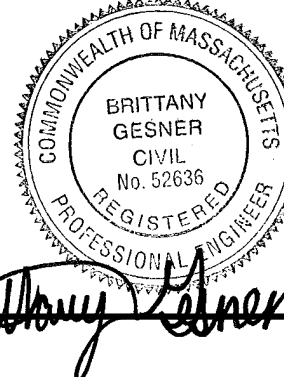
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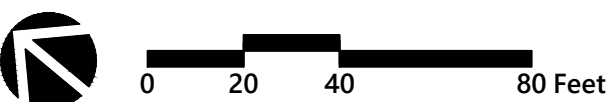
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NASHOBA
SATELLITE
EMERGENCY
FACILITY

490 Main Street
Groton, MA 01450



Number	Date	Issued For
1	7/31/25	Response to Peer Review Comments

LAYOUT AND MATERIALS
PLAN

Date
06/23/2025
Scale
1" = 40'
Proj. Number
25082.00

Drawing Number

C401

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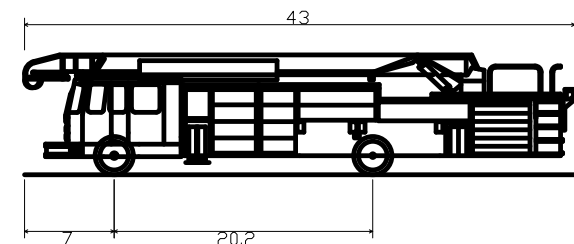
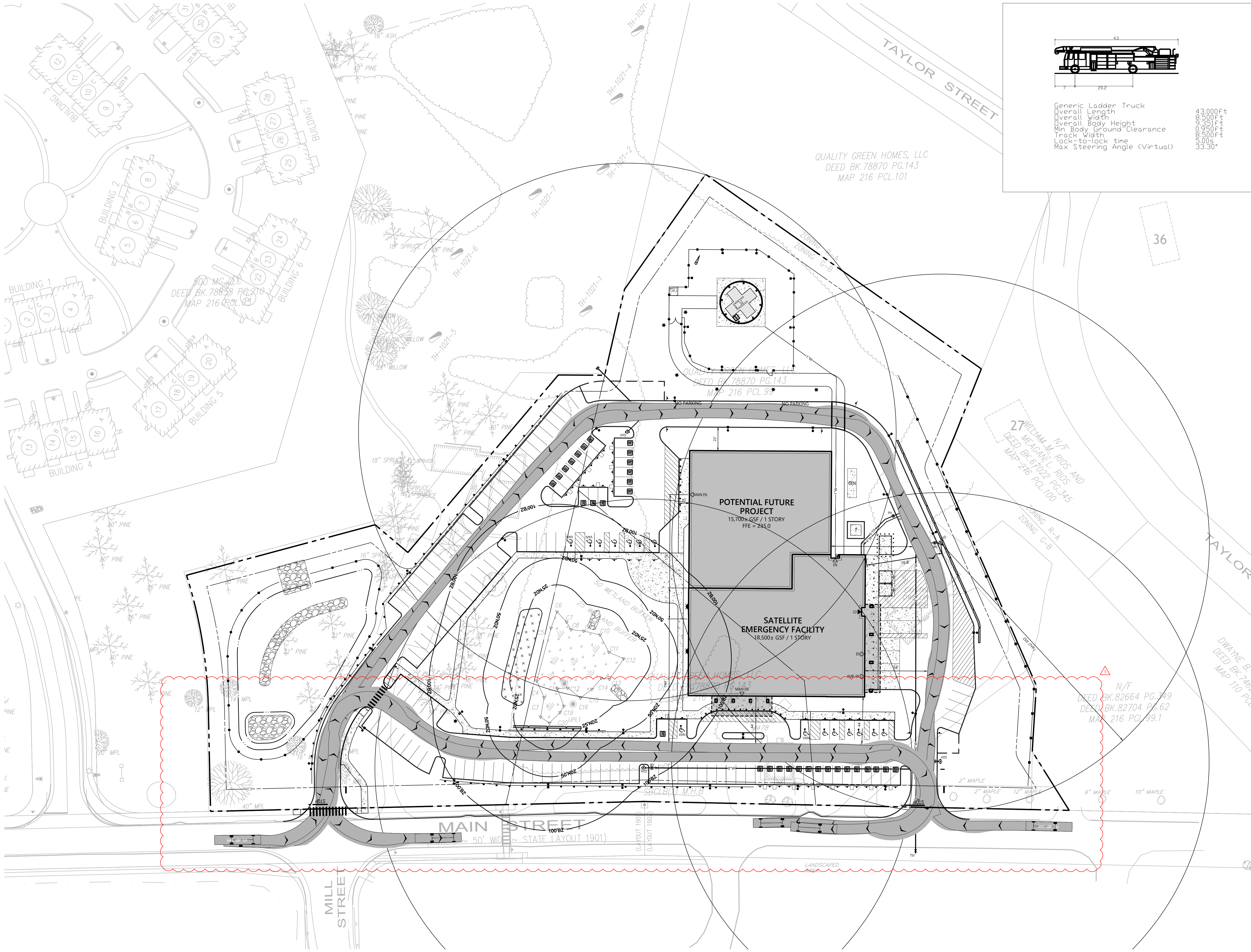
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Generic Ladder Truck
Overall Length 43.000ft
Overall Width 20.200ft
Overall Body Height 10.500ft
Min Body Ground Clearance 9.500ft
Track Width 10.500ft
Lock-to-lock time 5.000s
Max Steering Angle (Virtual) 33.30°



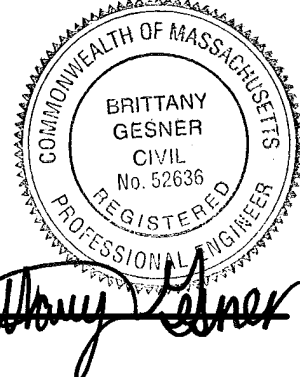
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Phone: 860 657.8077

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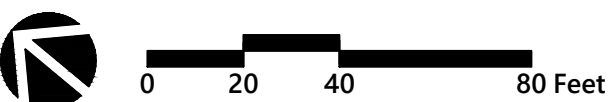
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CH, XF

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BMG



NASHOBA SATELLITE EMERGENCY FACILITY

490 Main Street
Groton, MA 01450



Number	Date	Issued For
1	7/31/25	Response to Peer Review Comments

FIRE ACCESS AND CIRCULATION PLAN

Date
06/23/2025
Scale
1" = 40'
Proj. Number
25082.00

Drawing Number

C402

1

2

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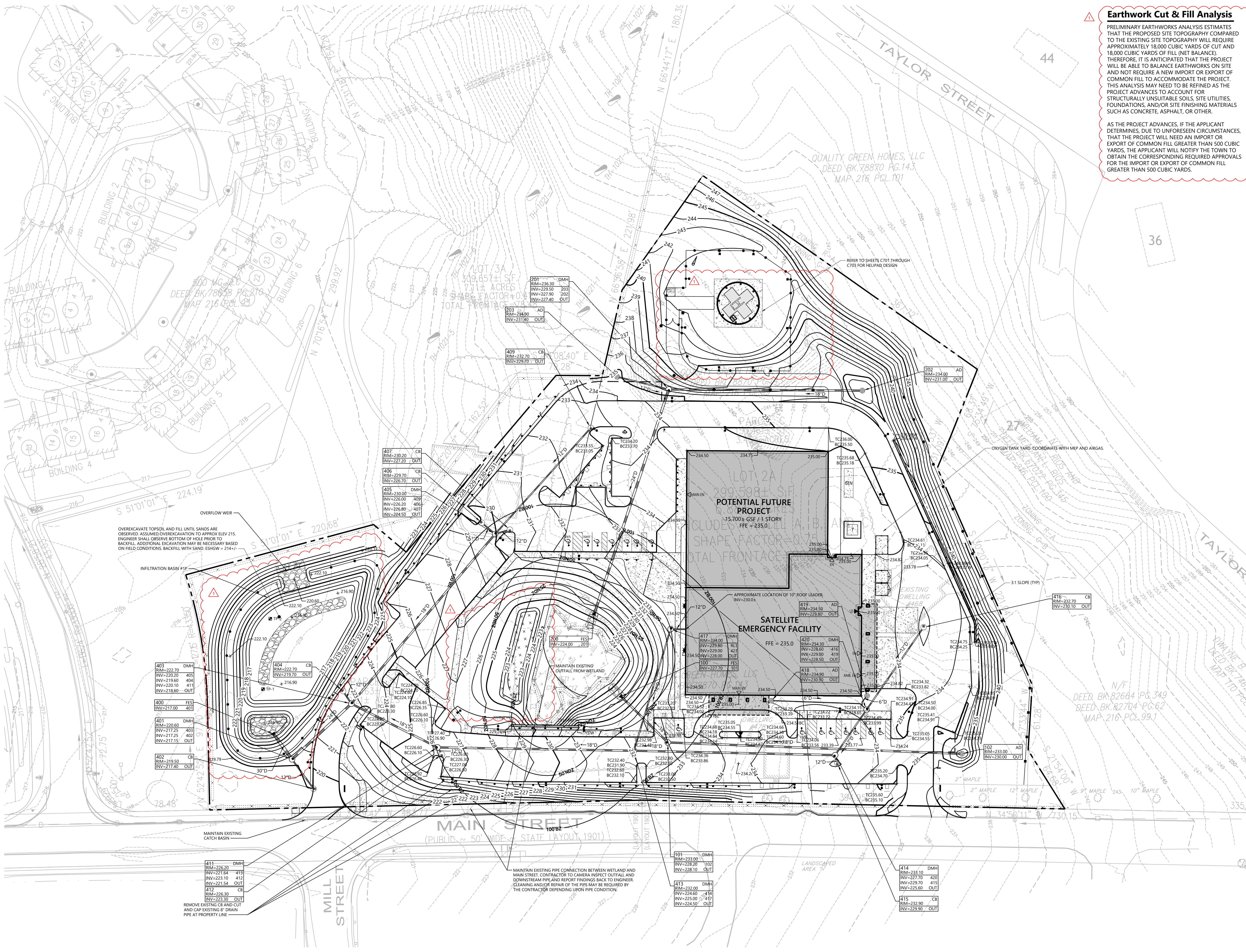
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Earthwork Cut & Fill Analysis

PRELIMINARY EARTHWORKS ANALYSIS ESTIMATES THAT THE PROPOSED SITE TOPOGRAPHY COMPARED TO THE EXISTING SITE TOPOGRAPHY WILL REQUIRE APPROXIMATELY 18,000 CUBIC YARDS OF CUT AND 18,000 CUBIC YARDS OF FILL (NET BALANCE). THEREFORE, IT IS ANTICIPATED THAT THE PROJECT WILL BE ABLE TO BALANCE EARTHWORKS ON SITE AND NOT REQUIRE A NEW IMPORT OR EXPORT OF COMMON FILL TO ACCOMMODATE THE PROJECT. THIS ANALYSIS MAY NEED TO BE REFINED AS THE PROJECT ADVANCES TO ACCOUNT FOR STRUCTURALLY UNSUITABLE SOILS, SITE UTILITIES, FOUNDATIONS, AND/OR SITE FINISHING MATERIALS SUCH AS CONCRETE, ASPHALT, OR OTHER.

AS THE PROJECT ADVANCES, IF THE APPLICANT DETERMINES, DUE TO UNFORESEEN CIRCUMSTANCES, THAT THE PROJECT WILL NEED AN IMPORT OR EXPORT OF COMMON FILL GREATER THAN 500 CUBIC YARDS, THE APPLICANT WILL NOTIFY THE TOWN TO OBTAIN THE CORRESPONDING REQUIRED APPROVALS FOR THE IMPORT OR EXPORT OF COMMON FILL GREATER THAN 500 CUBIC YARDS.



SLAM


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80 Glastonbury Boulevard
Glastonbury, CT 06033-4410
Phone: 860 657.8077

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CH, XF

Checked
BMG



Brittany Gesner



**UMassMemorial
Health Care**

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SATELLITE
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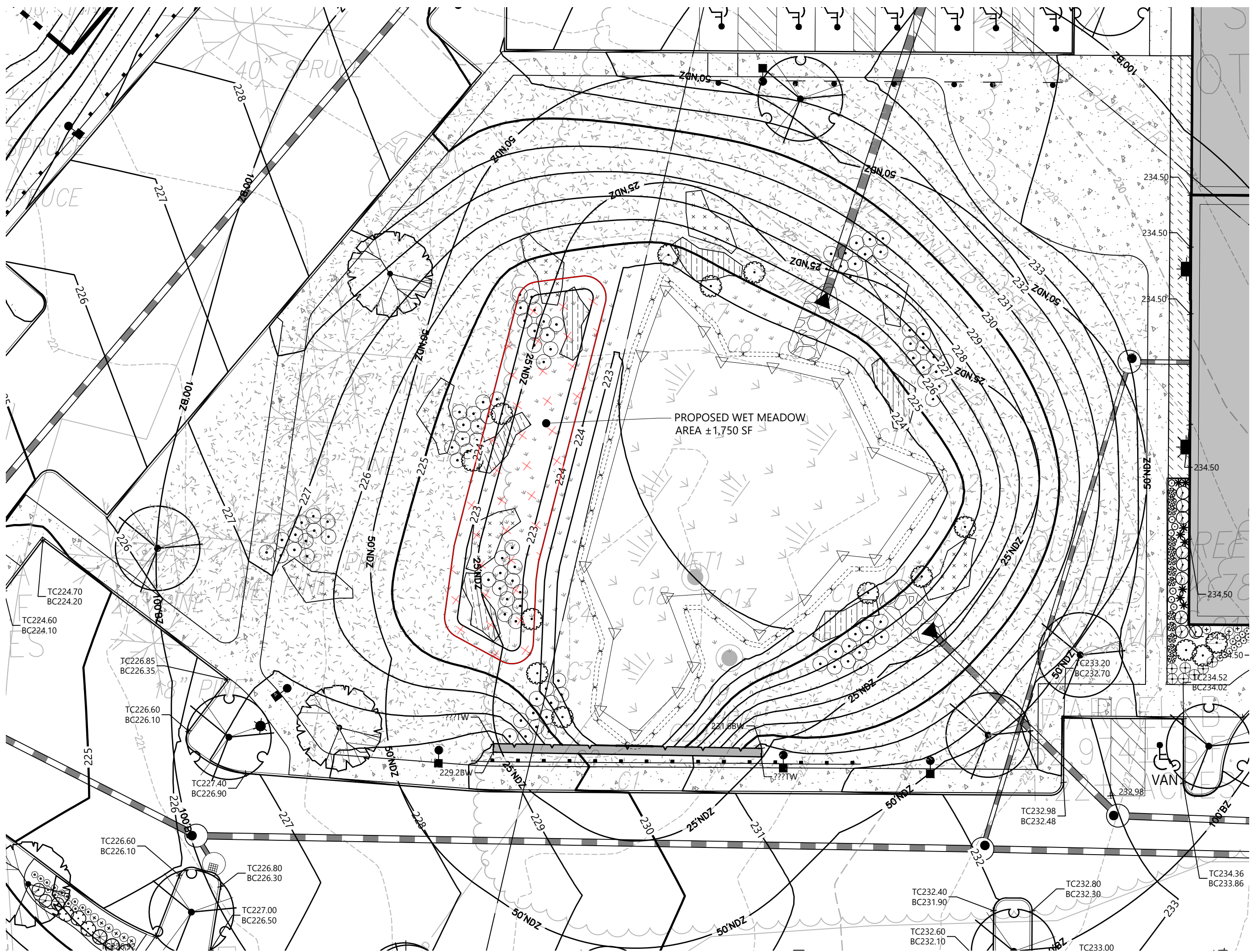
**GRADING AND DRAINAGE
PLAN**

Date
06/23/2025

Scale
1" = 40'

Proj. Number
25082.00

Drawing Number
C501



CONSTRUCTION OF THE WET MEADOW AREA WILL INCLUDE GRADING, SOILS PLACEMENT, AND PLANTING, AND ALL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF AN EXPERIENCED WETLAND SCIENTIST. ALL PLANTINGS SHALL BE PERFORMED IN SPRING (APRIL 15 TO JUNE 15) OR FALL (SEPTEMBER 1 TO OCTOBER 31).

AN EROSION CONTROL BARRIER OF ENTRENCHED SILT FENCING OR STAKED MULCH/COMPOST TUBES SHALL BE INSTALLED ALONG THE ENTIRE PERIMETER OF THE JURISDICTIONAL WETLAND AREA.

ALL AREAS TO BE PLANTED AS PART OF THE WET MEADOW AREA SHALL BE CLEARED AND GRUBBED (AS NEEDED) AND SHALL BE EXCAVATED TO A DEPTH OF 12 INCHES BELOW THE FINAL DESIGN ELEVATIONS. MINOR MODIFICATIONS TO THE GRADING PLAN MAY BE MADE IN THE FIELD BY THE SUPERVISING WETLAND SCIENTIST IN RESPONSE TO HYDROLOGIC CONDITIONS. NATIVE WETLAND SOILS REMOVED DURING GRADING MAY BE REUSED ONSITE; ANY SUCH SOILS SHALL BE STOCKPILED AND SURROUNDED BY A PERIMETER OF EROSION CONTROL S UNTIL READY FOR USE. THE SUPERVISING WETLAND SCIENTIST WILL INSPECT THE FINAL SUB-GRADE OF THE REPLACEMENT AREA TO ENSURE THAT THE PROPER HYDROLOGY HAS BEEN ESTABLISHED.

THE WET MEADOW AREA WILL THEN BE BACKFILLED WITH APPROXIMATELY 12 INCHES OF NATIVE WETLAND SOILS AND/OR PREPARED TOPSOIL. PREPARED SOILS SHALL CONSIST OF A 1:1 MIXTURE (OR EQUAL VOLUMES) OF ORGANIC AND MINERAL MATERIALS (IN THE SILT LOAM, LOAM, OR LOAMY SAND RANGE) AND CONTAIN 12 PERCENT ORGANIC CARBON CONTENT. CLEAN LEAF OR COMMERCIALLY AVAILABLE COMPOST IS THE PREFERRED AMENDMENT TO ACHIEVE THIS STANDARD, ALTHOUGH OTHER MATERIALS MAY BE USED IF APPROVED BY THE SUPERVISING WETLAND SCIENTIST. AREAS TO BE PLANTED AS BVW SHOULD BE GRADED IN A SLIGHTLY IRREGULAR FASHION TO ALLOW FOR SMALL HUMMOCKS AND HOLLOWES APPROXIMATELY 6 INCHES ABOVE AND BELOW GRADE TO CREATE A PIT AND MOUND TOPOGRAPHY. WETLAND SOILS WILL BE APPROVED BY THE WETLAND SCIENTIST.

ONCE WETLAND SOILS AND ANY NATURAL MATERIALS HAVE BEEN PLACED, ANY EQUIPMENT OR VEHICLES EXERTING A GROUND PRESSURE OF 3 PSI OR GREATER SHALL NO LONGER BE ALLOWED IN THE REPLACEMENT AREA TO AVOID COMPACTING THE WETLAND SOILS.

PLANTINGS WILL BE INSTALLED ONCE THE ABOVE TASKS HAVE BEEN COMPLETED. ALL SHRUB PLANTING WORK SHALL BE PERFORMED BY HAND USING HAND TOOLS ONLY. THE SPECIES, SIZE, AND QUANTITY OF PLANTINGS SHALL FOLLOW THE PLANTING SCHEDULE. ONLY PLANT MATERIALS NATIVE TO THE REGION SHALL BE USED. IN THE EVENT THAT PLANT SUBSTITUTIONS ARE NECESSARY, THE SUPERVISING WETLAND SCIENTIST OR ANOTHER QUALIFIED WETLAND SCIENTIST OR BOTANIST SHALL BE CONSULTED. ALL WOODY PLANT STOCK SHALL EITHER BE BARE-ROOT OR CONTAINER-GROWN PLANTINGS

AFTER ROUGH GRADING, SCARIFY SUBGRADE TO A MINIMUM 4-INCH DEPTH. THE LAND SURFACE SHALL BE DICED OR ROTOTILLED TO SCARIFY THE GROUND.

ALL PLANTING WILL OCCUR UNDER THE SUPERVISION OF A WETLAND SCIENTIST.

ALL PLANT MATERIAL SHALL HAVE TAGS INDICATING COMMON NAME, BOTANICAL NAME & SIZE. SEE SPECIFICATIONS FOR REQUIREMENTS.

FINAL LOCATION OF ALL PLANT MATERIAL WILL BE APPROVED BY THE WETLAND SCIENTIST PRIOR TO PLANTING. SHRUBS SHOULD PLANTED IN CLUSTERS OF 3-4 PLANTS TO SIMULATE A NATURAL DISTRIBUTION. SPACING BETWEEN INDIVIDUAL PLANTS SHOULD BE AS SPECIFIED IN THE PLANTING SCHEDULE, WITH SPACING IN BETWEEN CLUSTERS OF 10 TO 12 FEET.

1. FOLLOWING SHRUB PLANTINGS, THE AREA WILL BE SEEDED WITH A NATIVE WETLAND SEED MIX AS SPECIFIED IN THE PLANTING SCHEDULE OR A SIMILAR MIX. THE SEED MIX SHALL BE APPLIED AT A RATE AND IN A MANNER ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

12. ALL EROSION CONTROLS AROUND THE JURISDICTIONAL WETLAND AREA SHALL REMAIN IN PLACE UNTIL VEGETATION IS WELL-ESTABLISHED AND SOILS HAVE STABILIZED, AT WHICH POINT THE BARRIERS SHALL BE REMOVED AND DISPOSED OF.

13. INVASIVE SPECIES WITHIN THE WET MEADOW AREA SHALL BE REMOVED BY HAND AS DIRECTED BY THE CONSERVATION COMMISSION. IF NECESSARY, ANY AREAS WHERE INVASIVE SPECIES HAVE BEEN REMOVED WILL BE RESEEDD WITH A SUITABLE WETLAND SEED MIX.

14. TRANSPLANTS AND PLANT MATERIAL COLLECTED FROM THE WILD IS PROHIBITED UNLESS APPROVED IN WRITING BY THE WETLAND SCIENTIST. PLANT MATERIALS SHALL BE SELECTED FROM CERTIFIED NURSERIES THAT HAVE BEEN INSPECTED BY STATE AND/OR FEDERAL AGENCIES. NURSERY INSPECTION CERTIFICATES SHALL BE FURNISHED TO THE WETLAND SCIENTIST UPON REQUEST.

15. ALL PLANT MATERIAL SHALL BE HEALTHY, FREE OF DISEASE AND PESTS AND CONTAIN A WELL-DEVELOPED ROOT SYSTEM.

16. ALL PLANTS SHALL BE DELIVERED TO THE SITE AS LIVE, ACTIVELY GROWING, OR JUST BREAKING DORMANCY, AND ARRIVE TO THE PROJECT SITE READY FOR PLANTING. THE WETLAND SCIENTIST MAY REJECT PLANTS DAMAGED IN HANDLING OR TRANSPORT. PLANT MATERIAL SHALL BE INSTALLED AS SOON AS POSSIBLE AFTER IT HAS BEEN DELIVERED TO THE SITE.

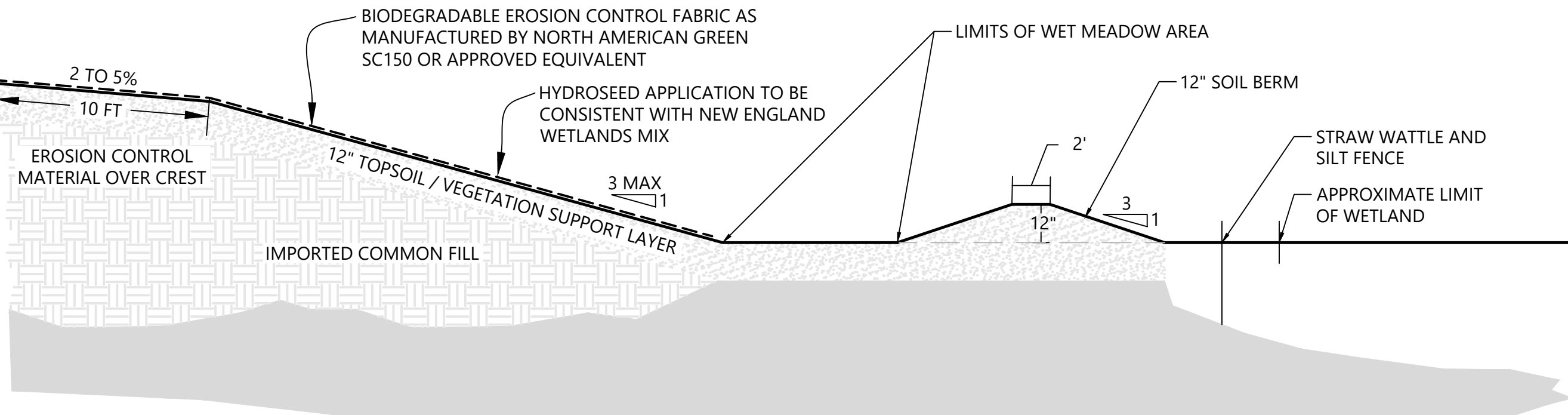
17. THE CONTRACTOR WILL HAVE A WATERING PLAN IN PLACE AND UTILIZE IF CONDITIONS WARRANT.

18. MATTING (EITHER STRAW OR COIR) WILL BE APPLIED TO ALL SLOPES FOR ADDITIONAL STABILIZATION.

19. A BONDED FIBER MATRIX SHALL BE HYDRAULICALLY APPLIED TO THE RESTORATION AREA AT THE RATE OF 3,000 LBS. PER ACRE TO PROMOTE STABILIZATION. THE WETLAND SEED MIXTURE SHALL BE INCORPORATED INTO THE APPLICATION AT THE SPECIFIED RATE. THE BONDED FIBER MATRIX SHALL BE APPLIED FROM ALTERNATE DIRECTIONS TO ALLEVIATE SHADOWING AND WILL BE APPLIED WHEN NO RAINFALL IS EXPECTED FOR 24 HOURS. PROPER APPLICATION WILL PERMIT THE GROUNDCOVER TO GERMINATE AND GROW IN AND BENEATH THE LAYER. EROSION AND SEDIMENTATION CONTROLS WILL REMAIN IN PLACE UNTIL ALL AREAS ARE STABILIZED.

20. STABILIZING BEFORE THE END OF CONSTRUCTION: DO NOT LEAVE BARE SOIL FOR MORE THAN 3 DAYS. IF EARTHWORK IS COMPLETE BUT CANNOT BE SEEDD WITHIN THE STANDARD SEEDING WINDOW (APRIL 1 - MAY 15 AND OCTOBER 1 - NOVEMBER 15), OR IF CONSTRUCTION IS PAUSED WITHOUT VEGETATIVE STABILIZATION, CONTRACTOR SHALL SUBMIT A PROPOSED METHOD FOR INTERIM STABILIZATION, TO BE APPROVED BY THE ENGINEER. SLOPES SHALL BE TEMPORARILY STABILIZED UNTIL THE CONTRACTOR IS ABLE TO SEED THE AREA AS SPECIFIED.

21. SEE SHEETS L101 AND L102 FOR ADDITIONAL INFORMATION.



- NOTES ***
1. FOR SLOPES WITH GRADES STEEPER THAN 5:1 AND WITHIN THE 100' BUFFER ZONE, USE EROSION CONTROL MATERIAL NORTH AMERICAN GREEN SC150 OR APPROVED EQUIVALENT (SECURED USING ANCHORS AT PATTERN RECOMMENDED BY MANUFACTURER)
 2. FOR DISTURBED/EXPOSED SOIL AREAS SHALLOWER THAN 5:1, USE EROSION CONTROL MATERIAL NORTH AMERICAN GREEN S75 OR APPROVED EQUIVALENT (SECURED USING ANCHORS AT PATTERN RECOMMENDED BY MANUFACTURER).

* APPLICABLE WITHIN 100' OF WET MEADOW AREA ONLY

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Number	Date	Issued For
1	7/18/25	Response to Conservation Commission Comments

BUFFER ZONE IMPROVEMENT PLAN

Date 06/23/2025 Scale 1" = 20' Proj. Number 25082.00	Drawing Number C502
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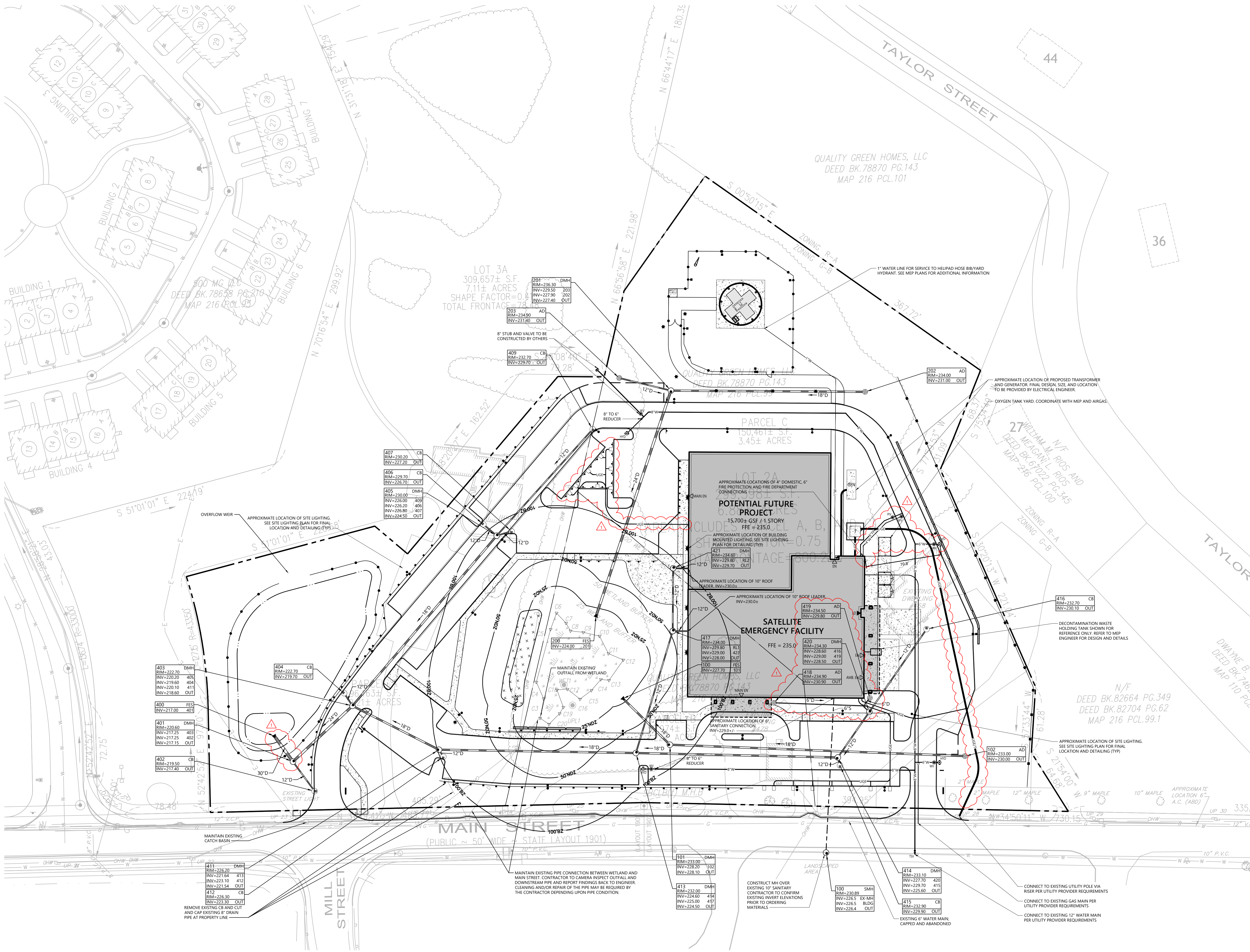
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Number	Date	Issued For
1	7/31/25	Response to Peer Review Comments

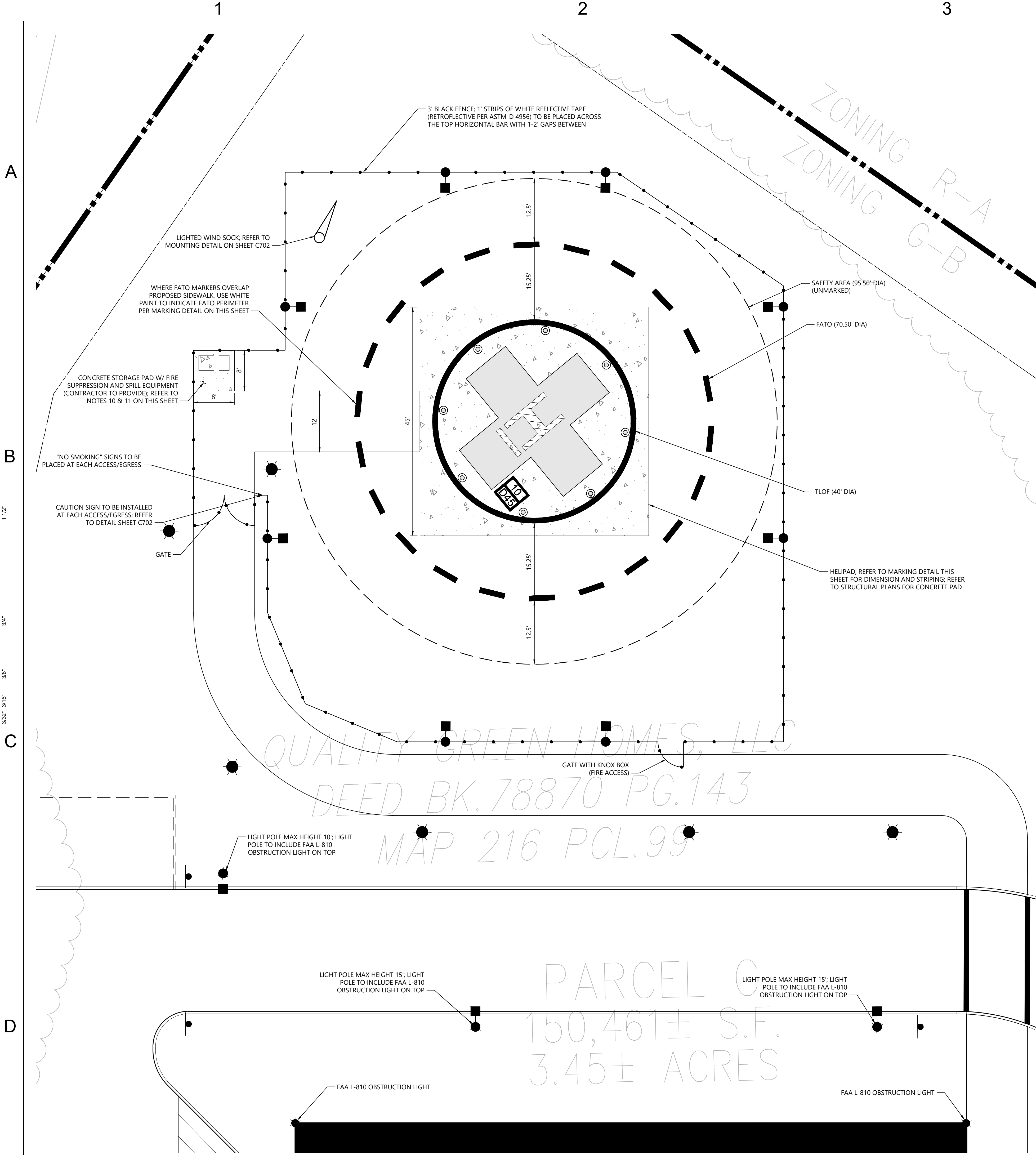
UTILITY PLAN

Date
06/23/2025

Scale
1" = 40'

Proj. Number
25082.00

Drawing Number
C601

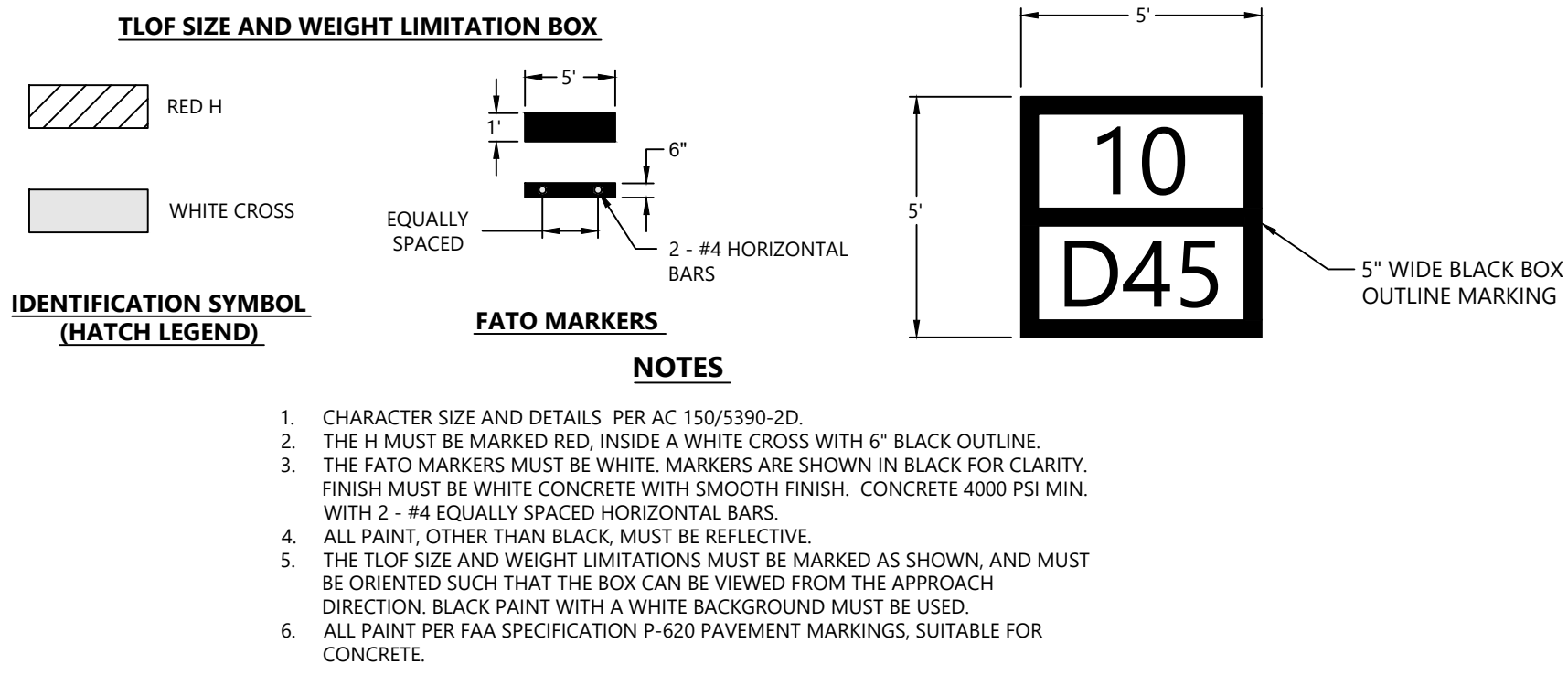
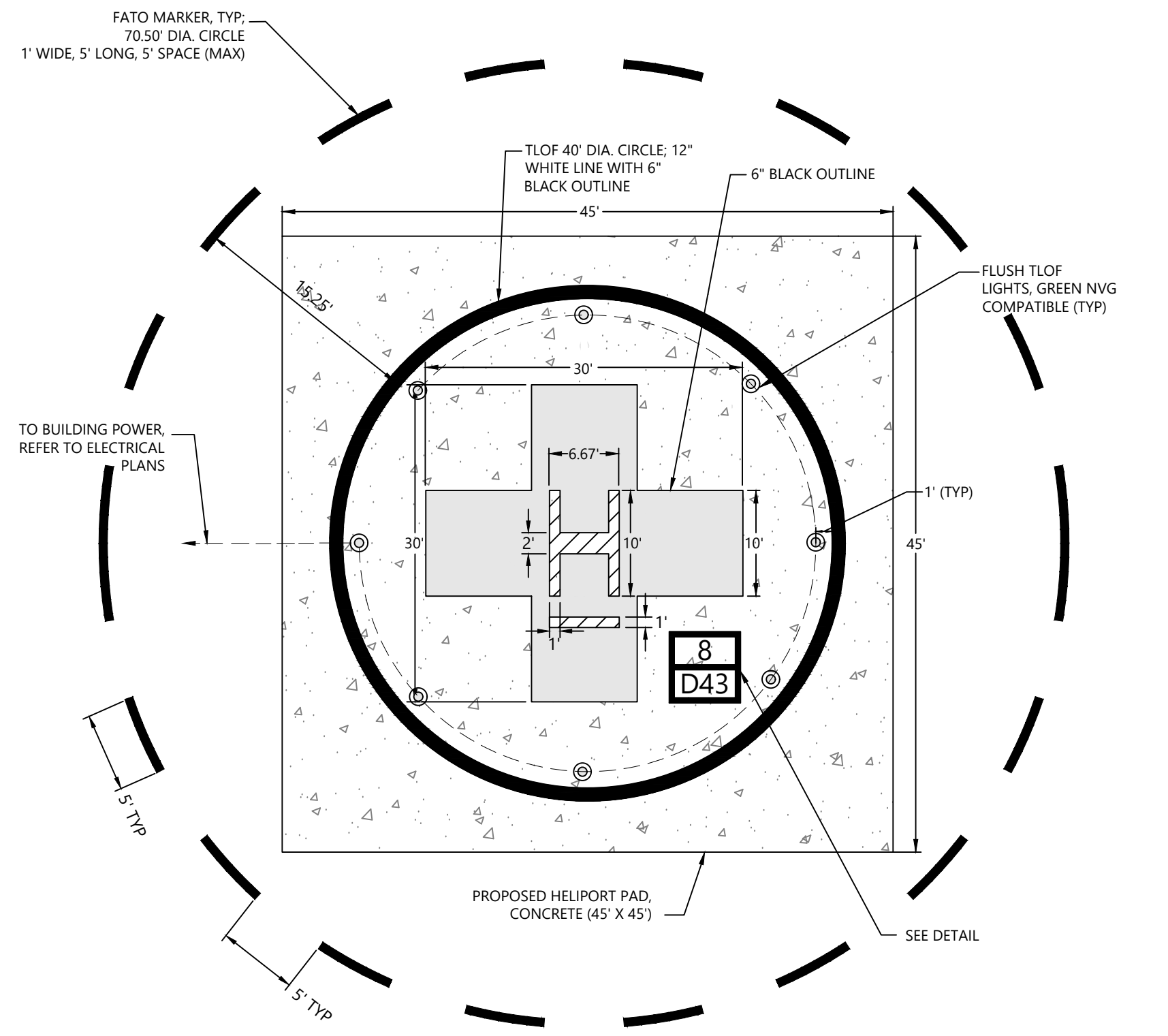


Legend	
	PROPERTY BOUNDARY
	SETBACK
	FENCE
	CONCRETE SIDEWALK
	LIGHT POLE, FLOOD LIGHT, BOLLARD FIXTURE, SEE LIGHTING PLAN

Site Data Table	
PARCEL ID:	216-99
ZONING:	GENERAL BUSINESS
EXISTING LAND USE:	REST/CLUB
PROPOSED LAND USE:	MEDICAL OFFICE
FLOOD ZONE:	X
FEMA PANEL NUMBER:	25017C0202E DATED: 6/4/2010

FAA Helipad Data	
FAA AC 150/5390-2D	
DESIGN HELICOPTER DATA	
HELIPORT TYPE	HOSPITAL
DESIGN HELICOPTER	EUROCOPTER EC-145-D3
CONTROLLING DIMENSION (D)	44.42'
MAX TAKEOFF WEIGHT	8,378 LBS
HELIPORT DIMENSIONS	
TLOF	FAA MINIMUM 40.00' DIA
FATO	70.21' DIA
SAFETY AREA	95.08' DIA
MIN TLOF/FATO SEPARATION	15.10' DIA
MIN FATO/SAFETY AREA SEPARATION	12.44' DIA
APPROACH/DEPARTURE PATH	
MAGNETIC VARIATION	14W
PRIMARY INGRESS	MAGNETIC 119 DEG
PRIMARY EGRESS	TRUE 105 DEG

- Notes**
1. ALL PROPOSED EQUIPMENT LOCATED OUTSIDE OF EXISTING EASEMENTS. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES AND VERIFY ALL FIELD CONDITIONS BEFORE STARTING CONSTRUCTION.
 2. REFER TO STRUCTURAL PLANS FOR HELIPORT PAVEMENT AND JOINT SPECS.
 3. HELIPORT DESIGN, MARKINGS AND WIND SOCK LOCATION ARE SUBJECT TO FAA AND MASSDOT REVIEW AND APPROVAL.
 4. SITE DESIGN IS COMPLIANT WITH NFPA 418, STANDARDS FOR HELIPORTS AND VERTIPTS, 2024 EDITION.
 5. THE OWNER/OPERATOR OF THE PROPOSED HELIPORT IS RESPONSIBLE FOR DEVELOPING AN EMERGENCY RESPONSE PLAN.
 6. ALL GATES TO BE LOCKED WHEN HELIPORT IS NOT IN USE.
 7. INSTALL CAUTION SIGNS AT EACH ENTRANCE TO THE HELIPORT. SIGNS MUST BE LOCATED OUTSIDE THE SAFETY AREA.
 8. AREA SURROUNDING HELIPORT TO BE SODDED ONCE CONSTRUCTION IS COMPLETE. SOD MUST BE PINNED UNTIL ESTABLISHED. REFER TO PLANTING PLAN, L101.
 9. THE PROPOSED 50-LB WHEELED FIRE EXTINGUISHER WITH A MINIMUM RATING OF 4-A-80-B MUST BE LOCATED NEAR THE HELIPAD DURING ALL TAKE OFFS AND LANDINGS. WHEELED FIRE EXTINGUISHER TO BE TAGGED AND INSPECTED EACH YEAR WITH RESULTS SENT TO THE LOCAL FIRE DEPARTMENT.
 10. A SPILL KIT SHALL BE PROVIDED AND KEPT ONSITE AT ALL TIMES. CONTRACTOR TO PROVIDE 240L SPILLSMART OIL AND FUEL SPILL KIT OR APPROVED EQUAL.
 11. TREES SURROUNDING HELIPORT AND WITHIN FLIGHTPATH TO BE REGULARLY MAINTAINED, TRIMMED, AND LOOSE BRANCHES TO BE REMOVED TO AVOID INTERFERENCE WITH HELICOPTER MOVEMENT.



Helipad Identification Symbol with FATO / TLOF Marking Detail
N.T.S.



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Number	Date	Issued For

HELIPAD SITE PLAN

Date
06/23/2025
Scale
1" = 10'
Proj. Number
25082.00

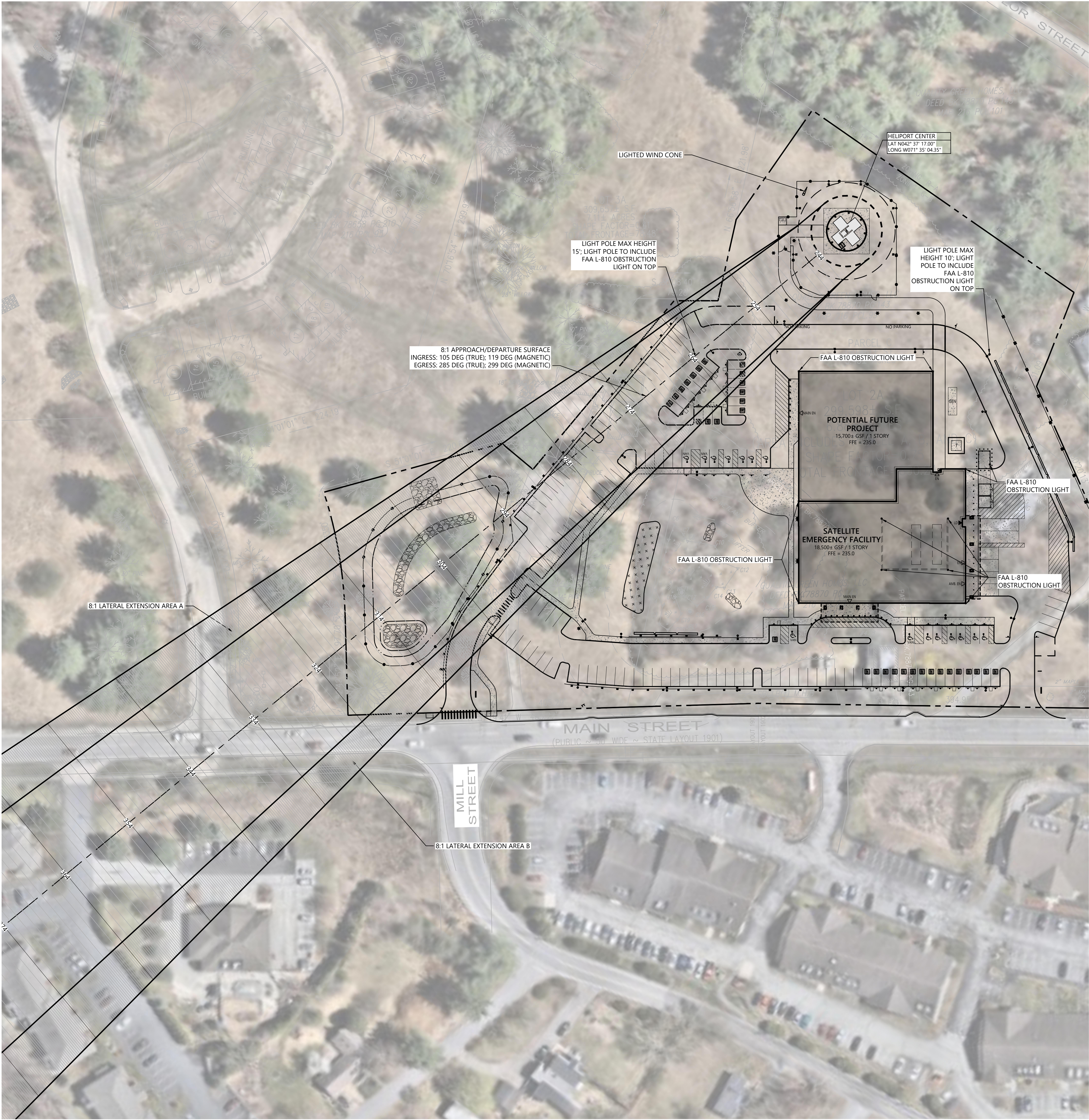
Drawing Number
C701

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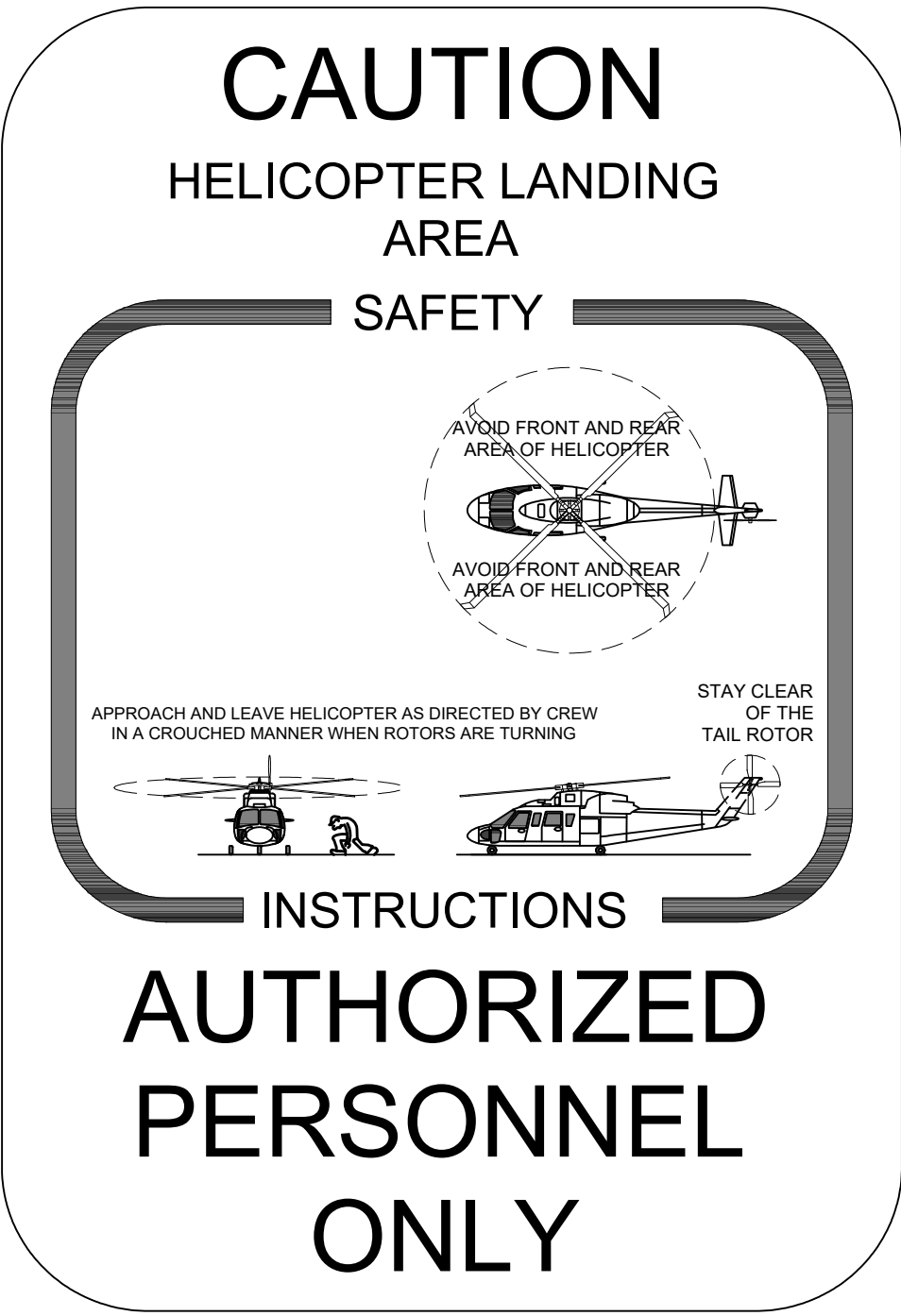


Legend

- PROPERTY BOUNDARY
- SETBACK
- FENCE
- ROOFTOP MECHANICAL UNITS & SCREENING
- CONCRETE SIDEWALK
- LIGHT POLE, FLOOD LIGHT, BOLLARD
FIXTURE, SEE LIGHTING PLAN

Note

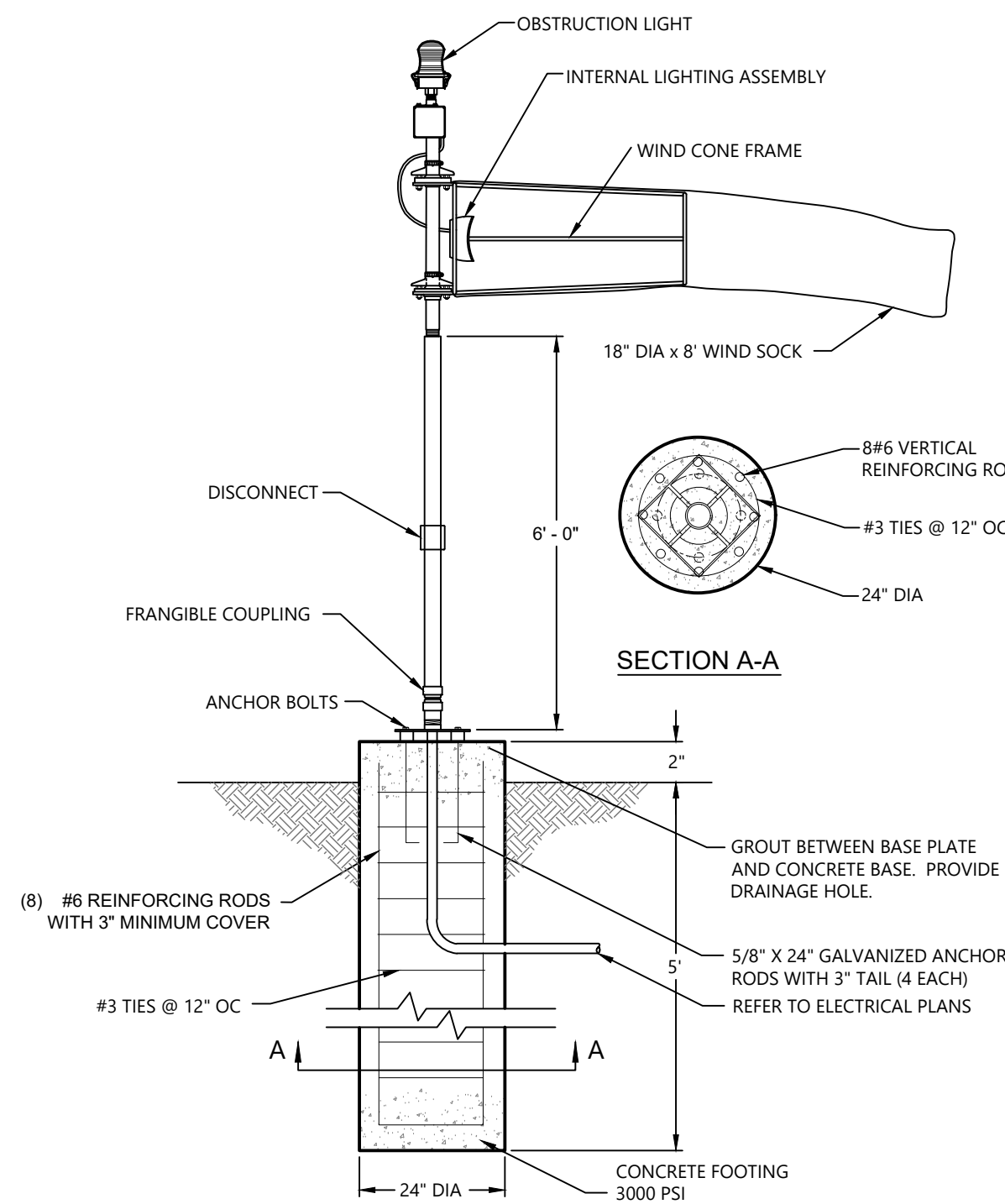
- PROPOSED OBJECTS UNDER THE ELEVATIONS INDICATED WHICH ARE IN THE PRIMARY APPROACH MUST BE LIGHTED WITH A STEADY BURNING RED FAA SPECIFICATION L-810 OBSTRUCTION LIGHT THAT IS INFRA-RED VISIBLE.
- ALL EXISTING ADJACENT TREES WITHIN THE FLIGHT PATH ARE TO BE TRIMMED.



- NOTES:
- CONTRACTOR TO SECURE SIGN TO FENCE USING POST BRACKETS.

Caution Sign

N.T.S.



- NOTES:
- FOR APPLICATIONS WHERE THE SUPPLEMENTAL WIND CONE IS POWERED BY 120 VOLT SERVICE, SIZE CONDUCTORS PER NATIONAL ELECTRIC CODE #12-AWG MINIMUM. SEE ELECTRICAL LAYOUT DRAWINGS FOR CONDUIT OR DIRECT BURIED CABLE REQUIREMENTS.
 - CONTRACTOR MUST INSTALL A WEATHERPROOF DISCONNECT 3' ABOVE THE BASE TO ALLOW SERVICING WITHOUT DISRUPTING THE AREA LIGHTING CIRCUIT.
 - COORDINATE POWER WITH ELECTRICAL PLANS.

Ground Level Wind Cone Detail (L-806) Internally Lighted

N.T.S.

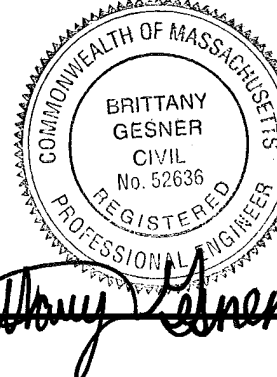


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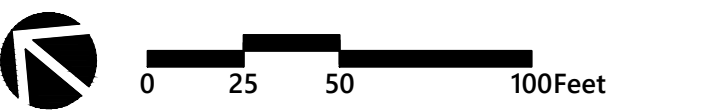
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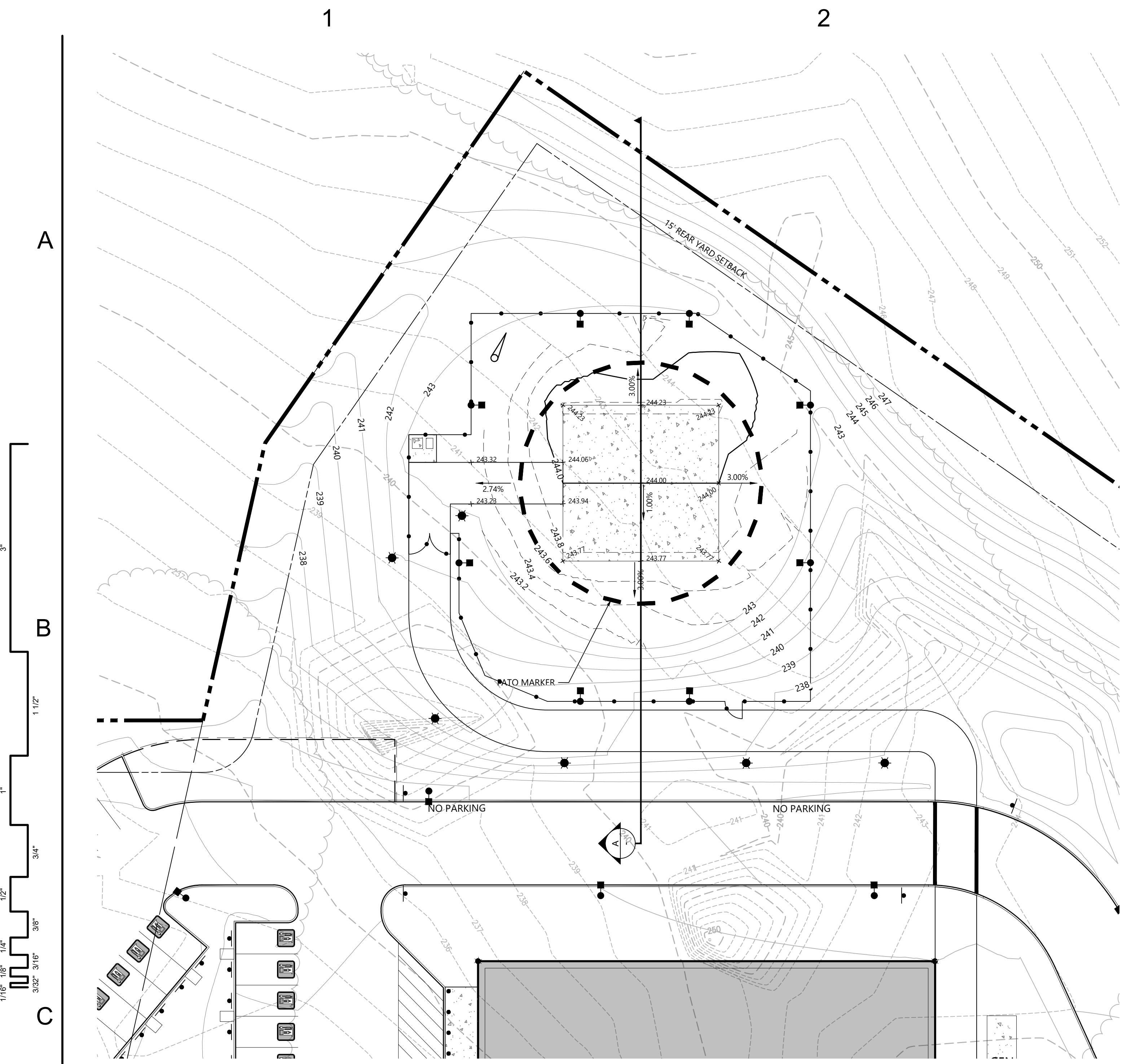
Number	Date	Issued For

AERIAL SITE PLAN AND
APPROACH & DEPARTURE
PLAN

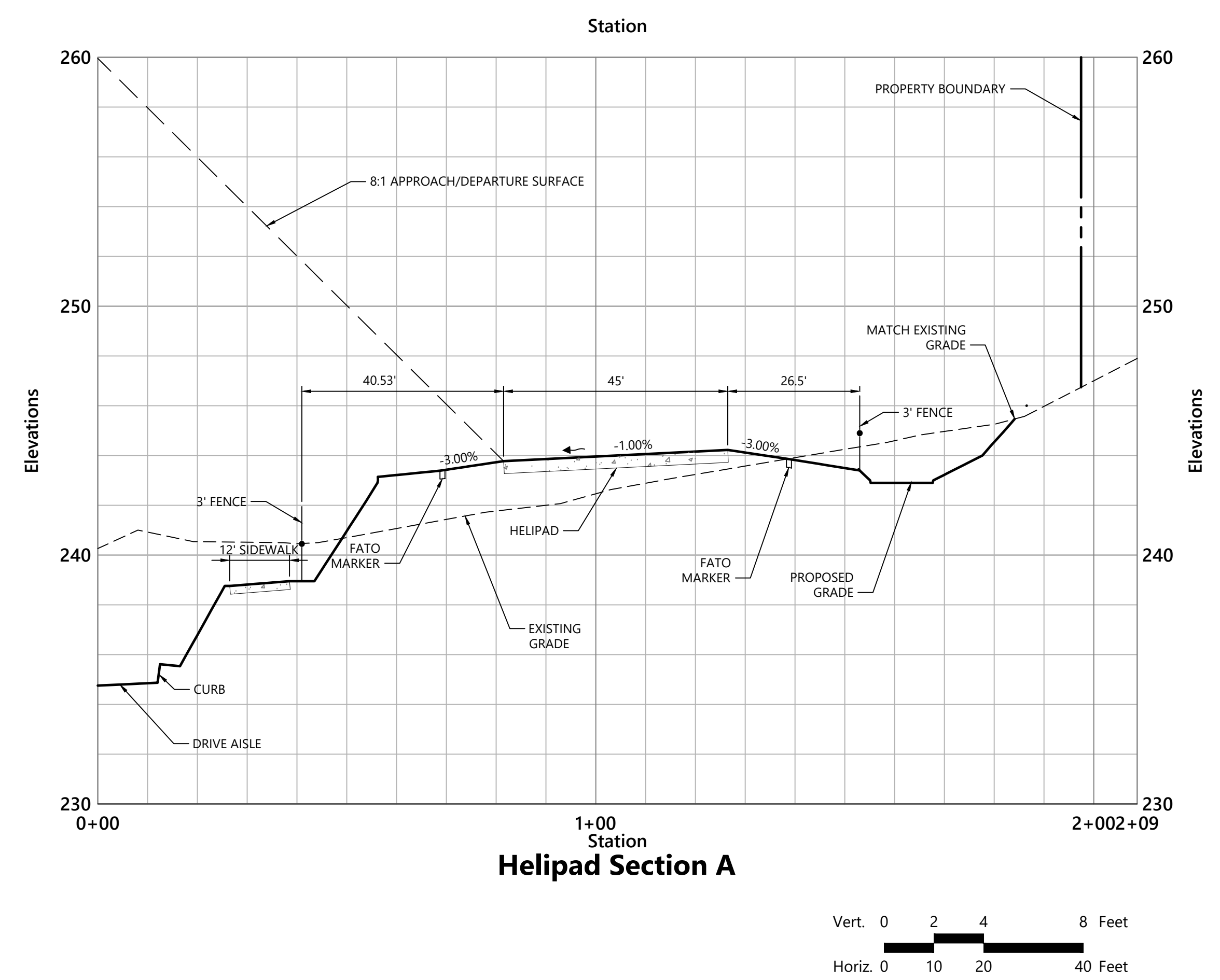
Date
06/23/2025
Scale
1" = 50'
Proj. Number
25082.00

Drawing Number

C702



- Legend**
- PROPERTY BOUNDARY
 - SETBACK
 - FENCE
 - CONCRETE SIDEWALK
 - LIGHT POLE, FLOOD LIGHT, BOLLARD
FIXTURE, SEE LIGHTING PLAN



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Brittany Gesner
BRITTANY GESNER
CIVIL
No. 52635
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS

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Number	Date	Issued For

HELIPAD GRADING PLAN

Date
06/23/2025
Scale
1" = 20'
Proj. Number
25082.00

Drawing Number
C703

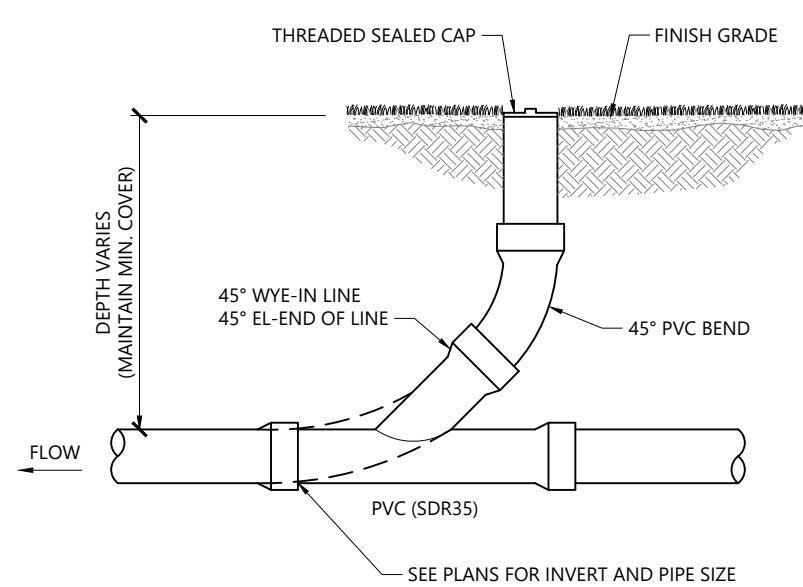
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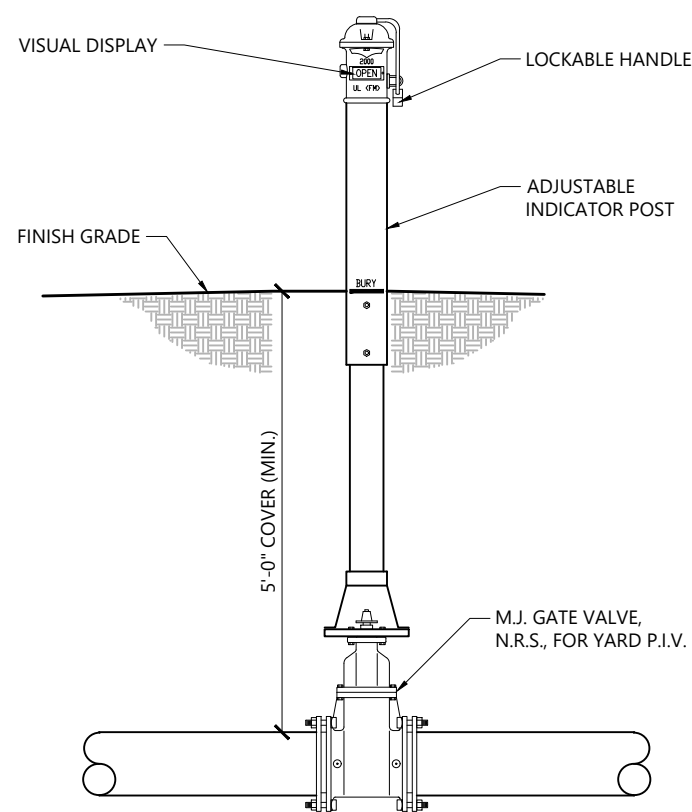
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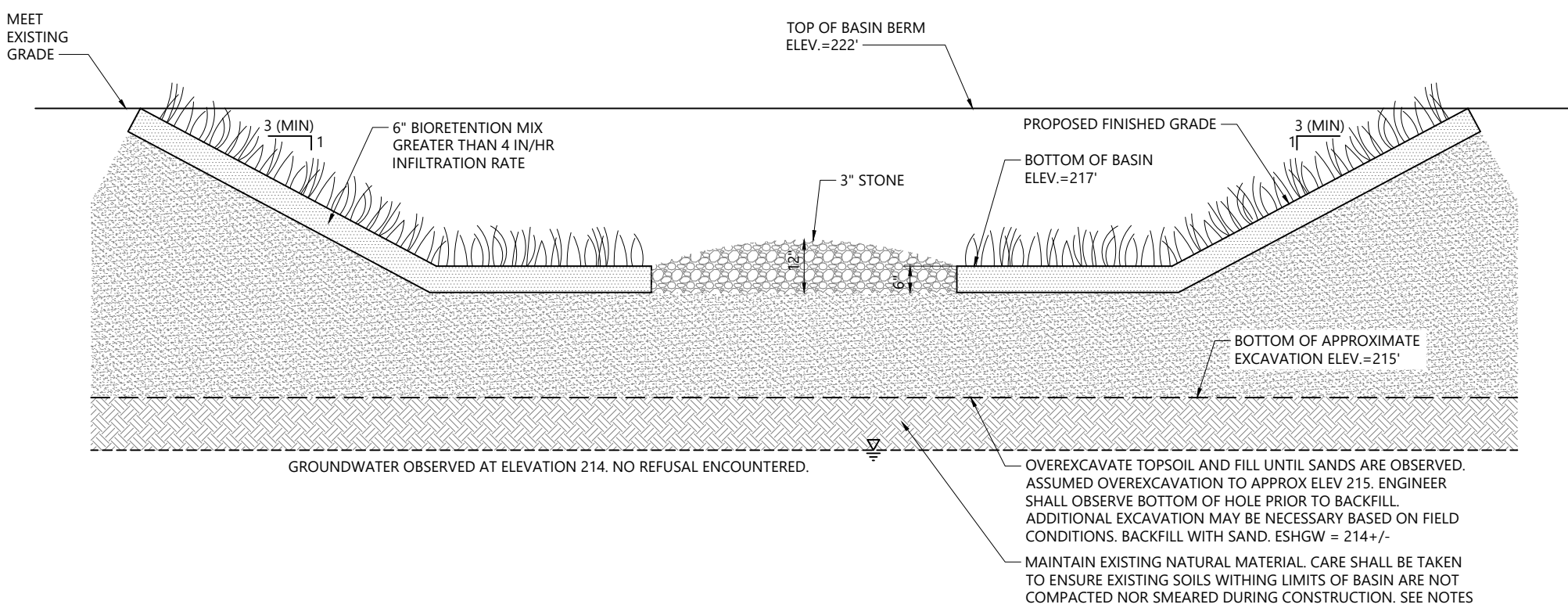
Cleanout (CO) - Landscape Area 11/19
N.T.S. Source: VHB LD_302

B



Post Indicator Valve (PIV) 1/16
N.T.S. Source: VHB LD_267

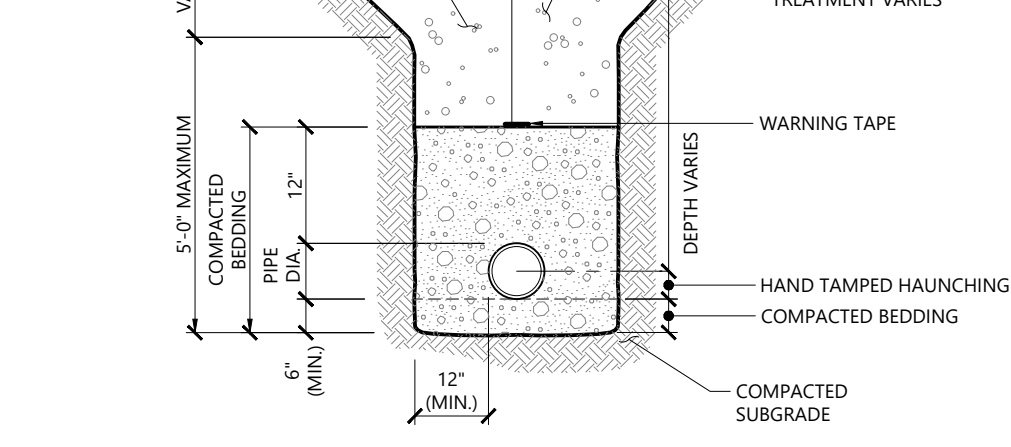
C



- NOTES**
1. SIDE SLOPES SHALL BE 3:1 MAX
 2. REFER TO FURTHER INFILTRATION BASIN PROTECTION NOTES ON VHB'S EROSION AND SEDIMENTATION CONTROL PLAN C301.

Infiltration Bioretention Basin 1 - Cross Section 11/19
N.T.S. Source: VHB LD_250

D



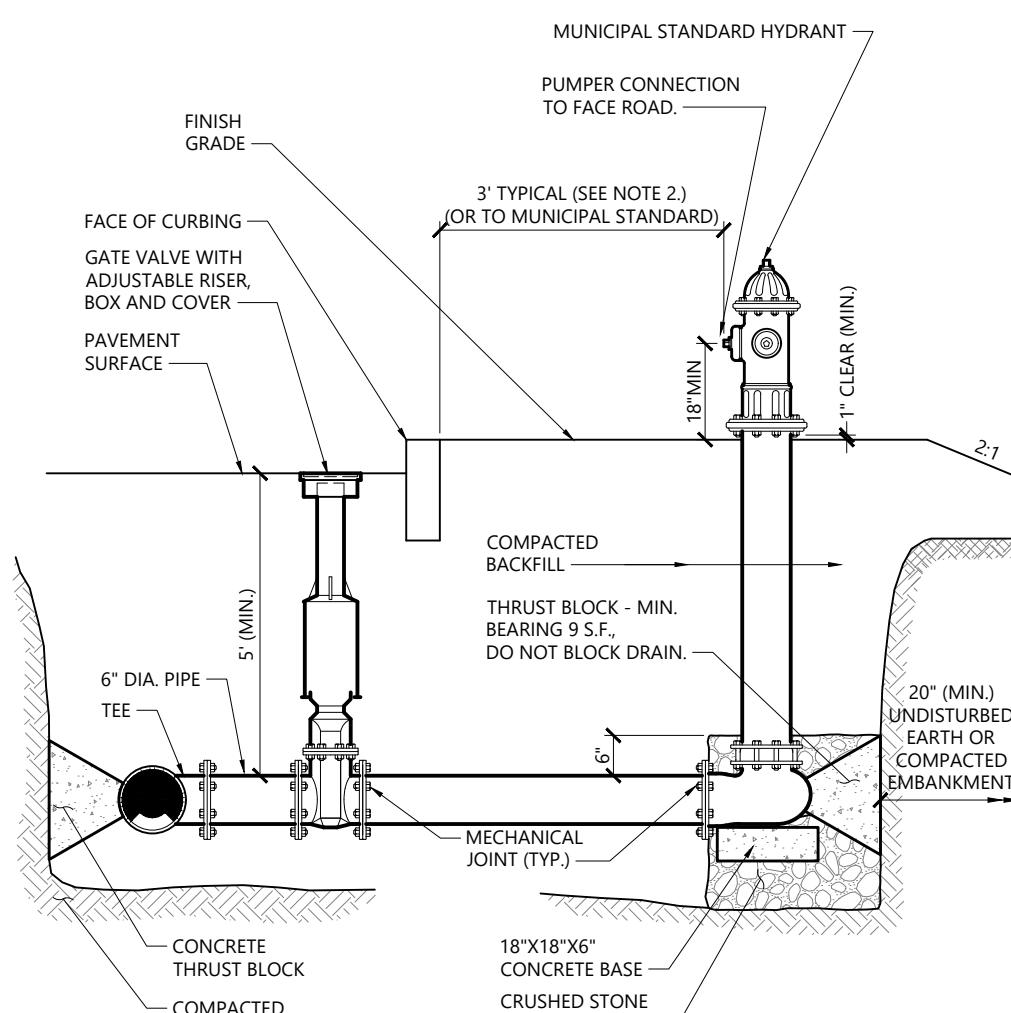
- NOTES**
1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
 2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
 3. COMPACTED GRANULAR FILL MAY CONSIST OF GRAVEL, CRUSHED STONE, SAND, OR OTHER MATERIAL AS APPROVED BY ENGINEER.

Utility Trench 11/19
N.T.S. Source: VHB LD_300

RESTRAINED JOINTS	
FITTINGS	NUMBER OF JOINTS TO RESTRAIN ON EITHER SIDE OF FITTING (BASED ON 18-FOOT PIPE LENGTH)
90 DEGREE BEND	3
45 DEGREE BEND	2
22-1/2 DEGREE BEND	2
TEE	3
BRANCH	2
RUN	

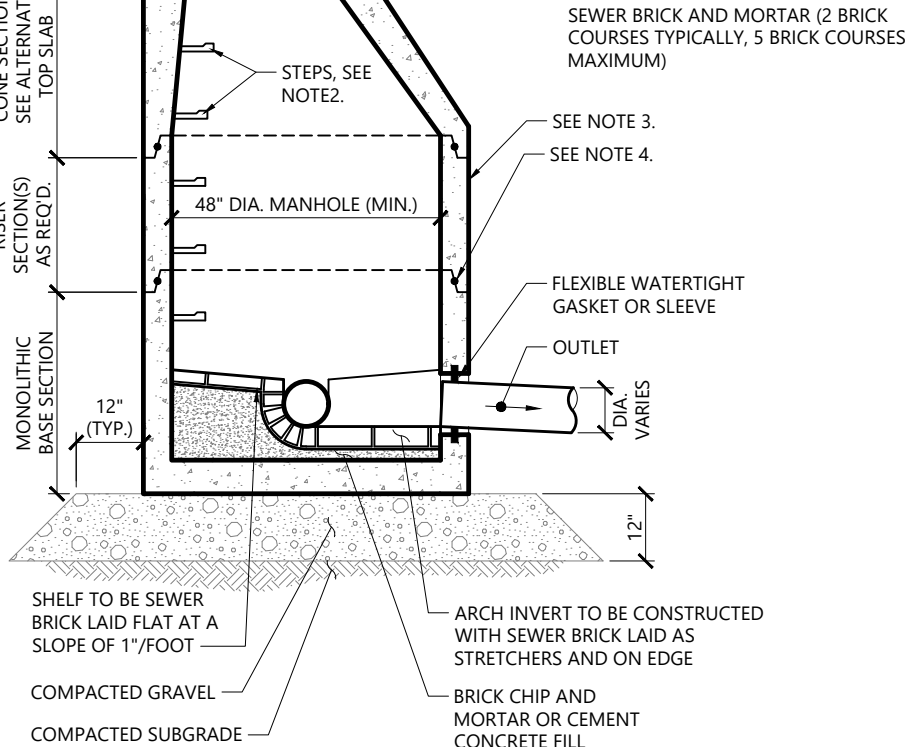
- NOTES**
1. PIPE WITH RESTRAINED JOINTS SHALL BE INSTALLED IN ALL AREAS WHERE THE PIPE IS WITHIN FILL MATERIALS AND ALSO AT LOCATIONS SHOWN ON THE DRAWINGS. RESTRAINED JOINTS SHALL BE INSTALLED AT BENDS, REDUCERS, TEES, VALVES, DEAD ENDS, AND HYDRANTS. THE MINIMUM LENGTH OF PIPE TO BE RESTRAINED ON EITHER SIDE OF THE JOINT SHALL BE AS SHOWN ON THE TABLE ABOVE. THE FITTINGS OF THE NEW PIPING SHALL BE FOR RESTRAINED JOINTS, AS MARKED ON THE DRAWINGS.
 2. NO RESTRAINING IS REQUIRED IN THE DIRECTION OF THE EXISTING PIPE IF ONLY A SHORT LENGTH OF IT IS EXPOSED IN THE TRENCH FOR MAKING A CONNECTION.
 3. RESTRAINED JOINT ASSEMBLIES FOR PUSH-ON PIPE AND FITTINGS SHALL BE MADE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.

Restrained Joints for Water Pipe 3/20
N.T.S. Source: VHB LD_261

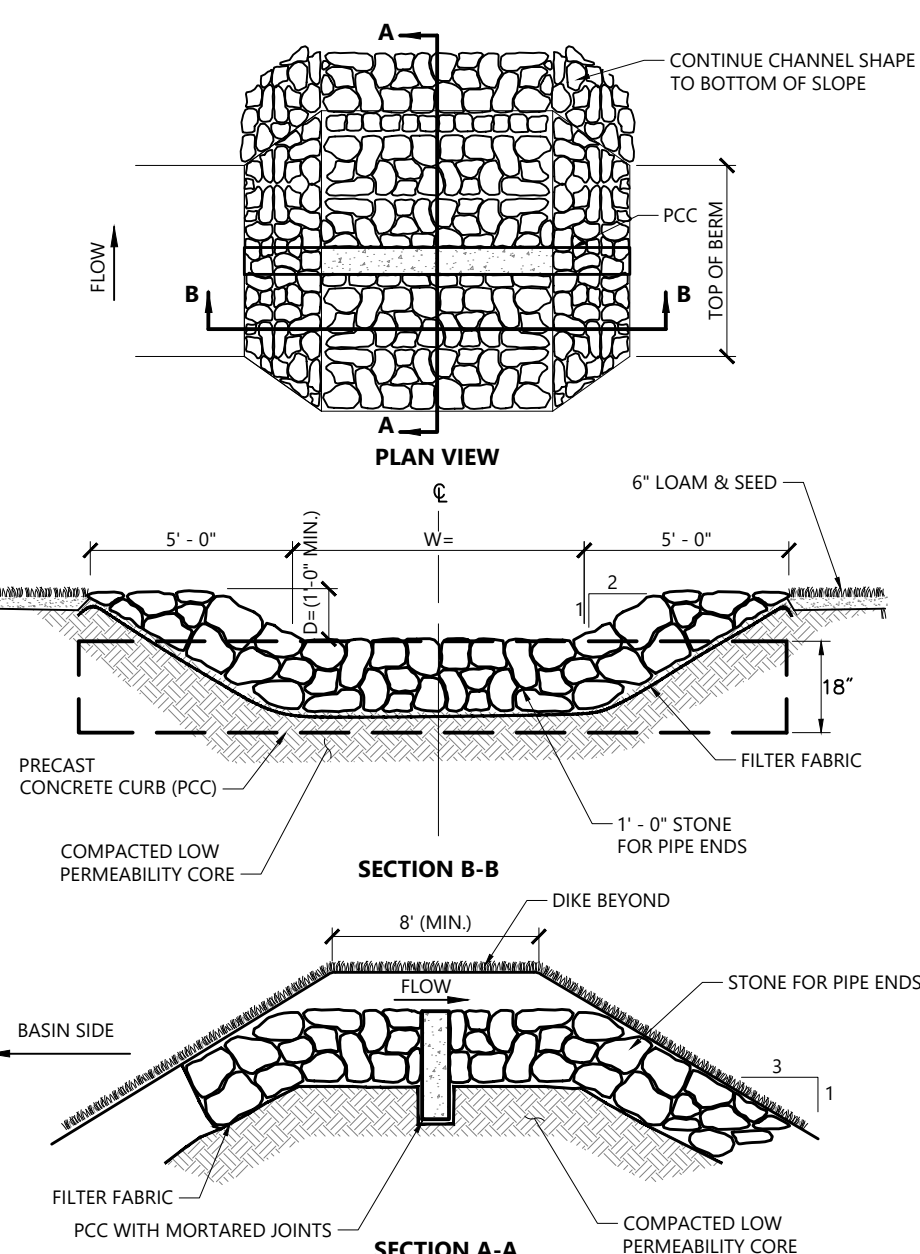


- NOTES**
1. CONCRETE THRUST BLOCKS TO BE USED ONLY WHERE THEY CAN BEAR ON UNDISTURBED EARTH AS SHOWN. USE CLAMPS AND TIE RODS OR OTHER ACCEPTABLE METHOD OF JOINT RESTRAINT WHERE SOIL CONDITIONS PROHIBIT THE USE OF THRUST BLOCKS.
 2. HYDRANT IN SIDEWALK AREAS TO BE LOCATED TO PROVIDE MINIMUM CLEAR SIDEWALK PASSAGE WIDTH OF 3 FEET AT HYDRANT.
 3. A 36-INCH CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT UNLESS OTHERWISE APPROVED BY AUTHORITY HAVING JURISDICTION.

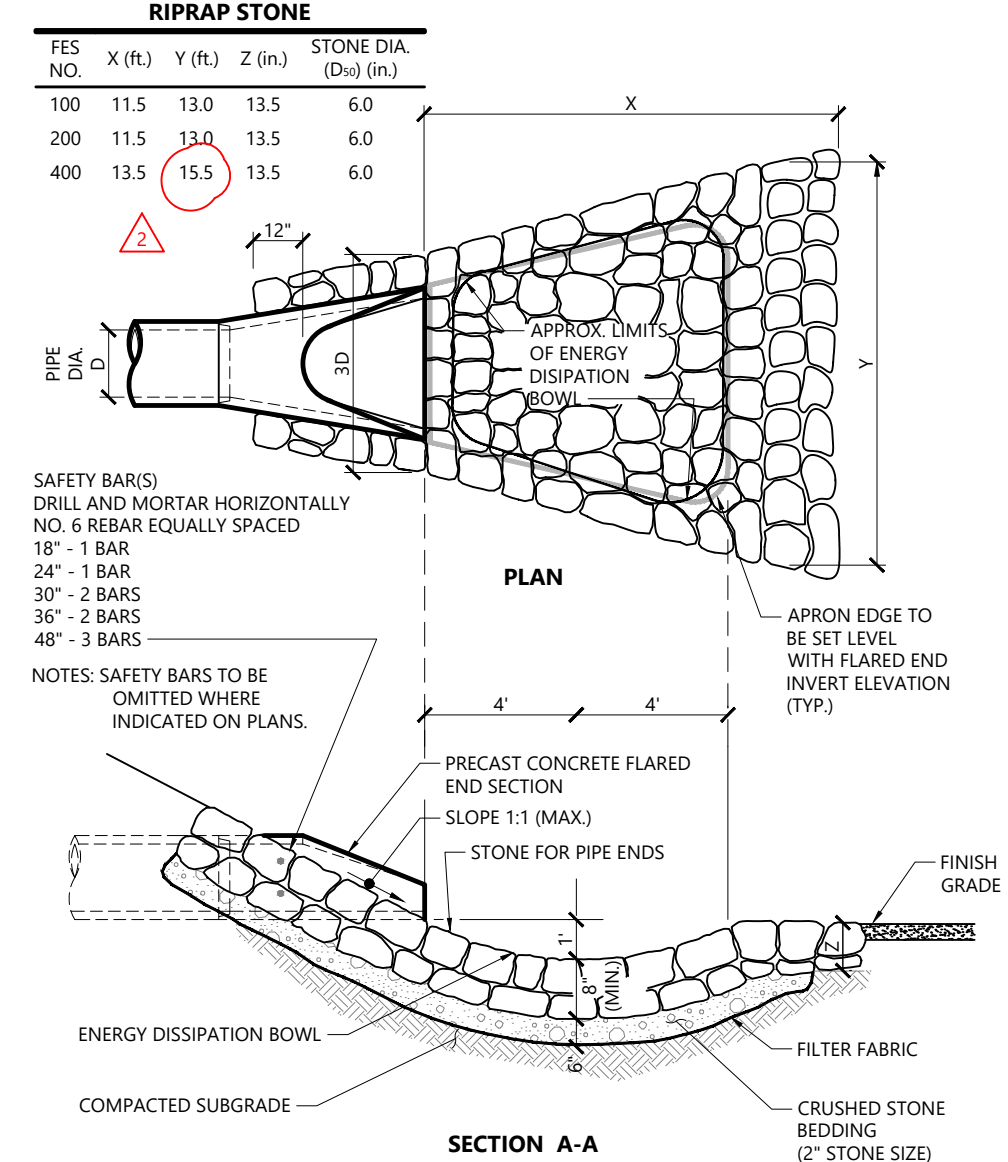
Hydrant Construction 12/19
N.T.S. Source: VHB LD_250



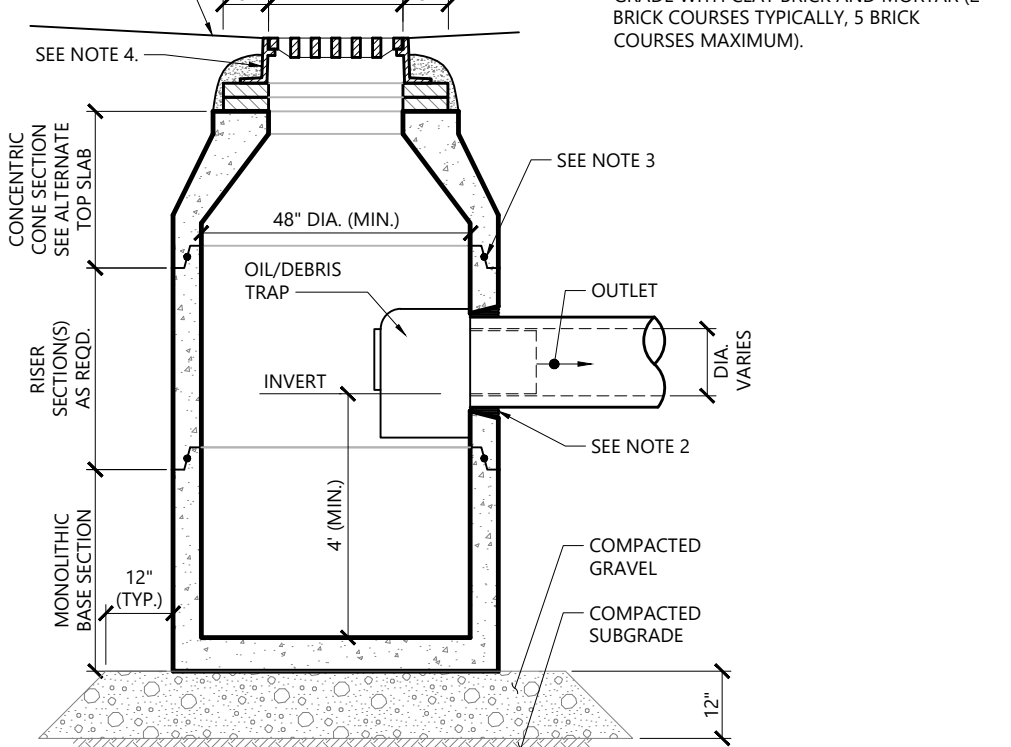
Sanitary Sewer Manhole (SMH) 1/16
N.T.S. Source: VHB LD_200



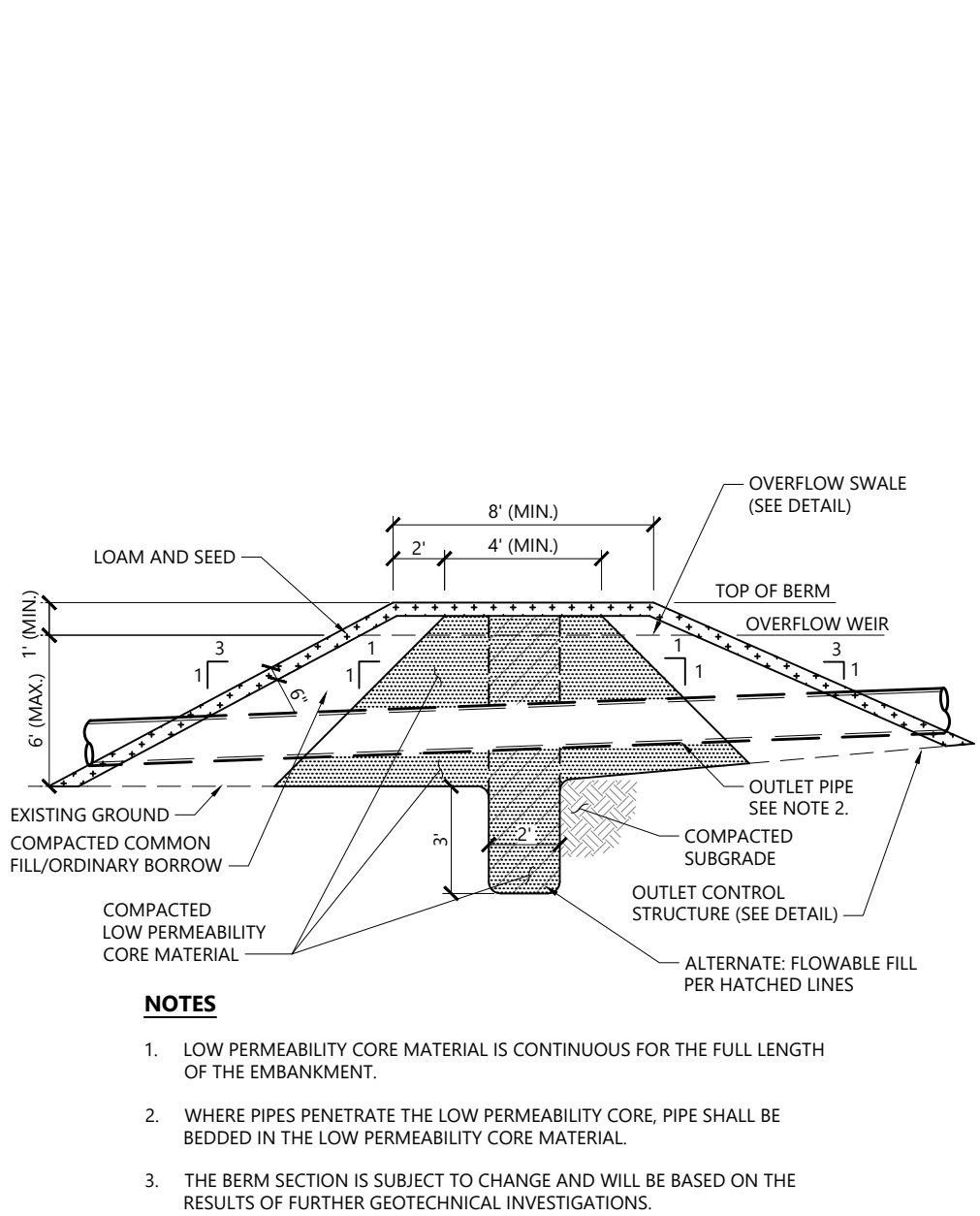
Emergency Overflow Weir 1/16
N.T.S. Source: VHB LD_161



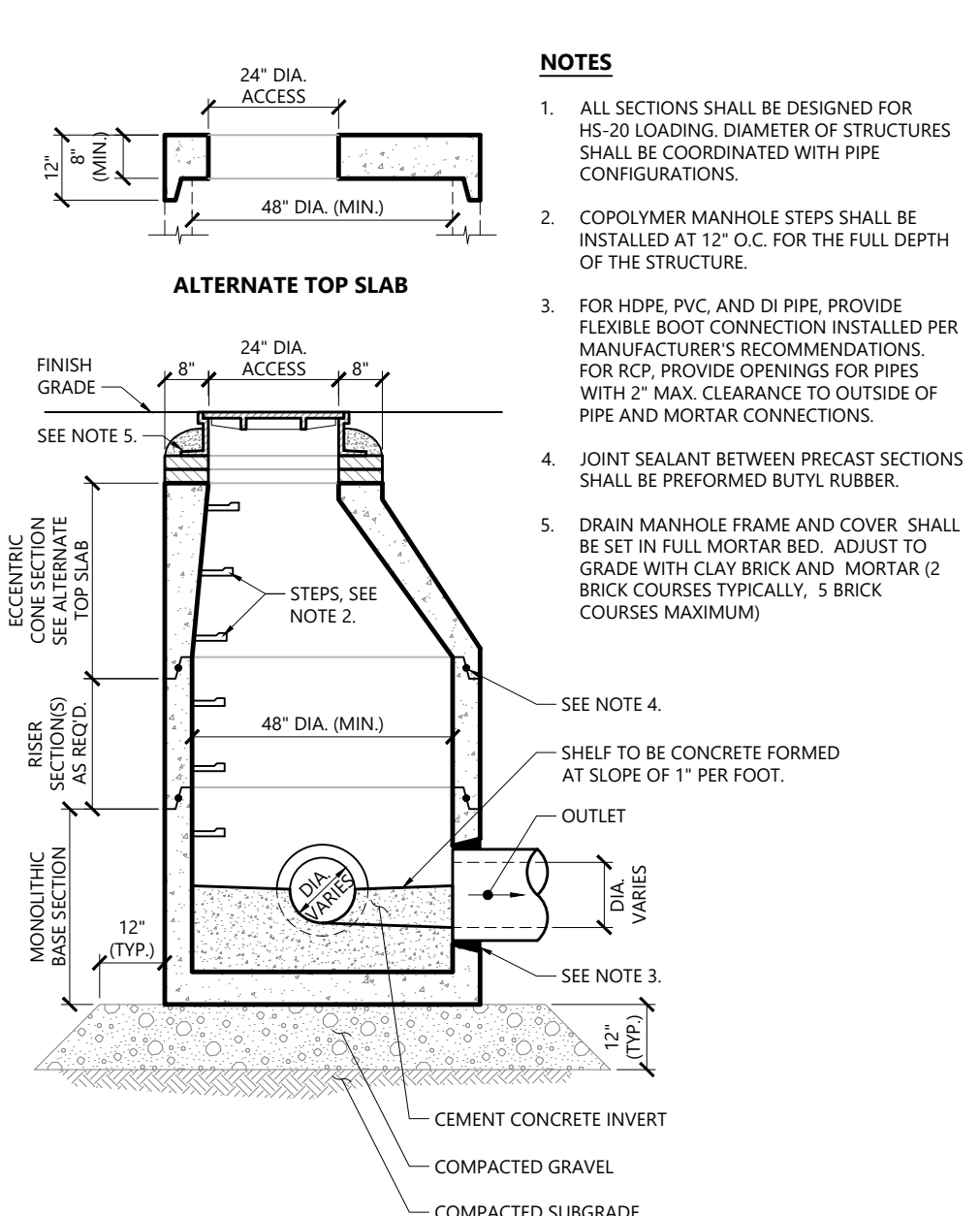
Flared End Section (FES) with Stone Protection 3/19
N.T.S. Source: VHB LD_134



Catch Basin (CB) With Oil/Debris Trap 3/21
N.T.S. Source: VHB LD_101



Detention Basin Berm Section 12/20
N.T.S. Source: VHB LD_160



Drain Manhole (DMH) 11/19
N.T.S. Source: VHB LD_115

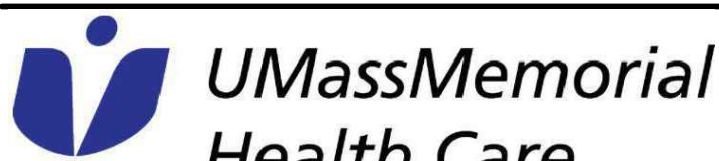
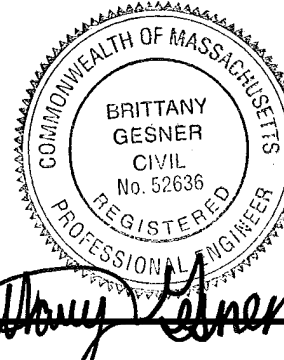


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Number	Date	Issued For
1	07/07/2025	ADDRESS DEP COMMENTS
2	7/31/25	Response to Peer Review Comments

SITE DETAILS

Date
06/23/2025
Scale
N.T.S.
Proj. Number
25082.00

Drawing Number
C801

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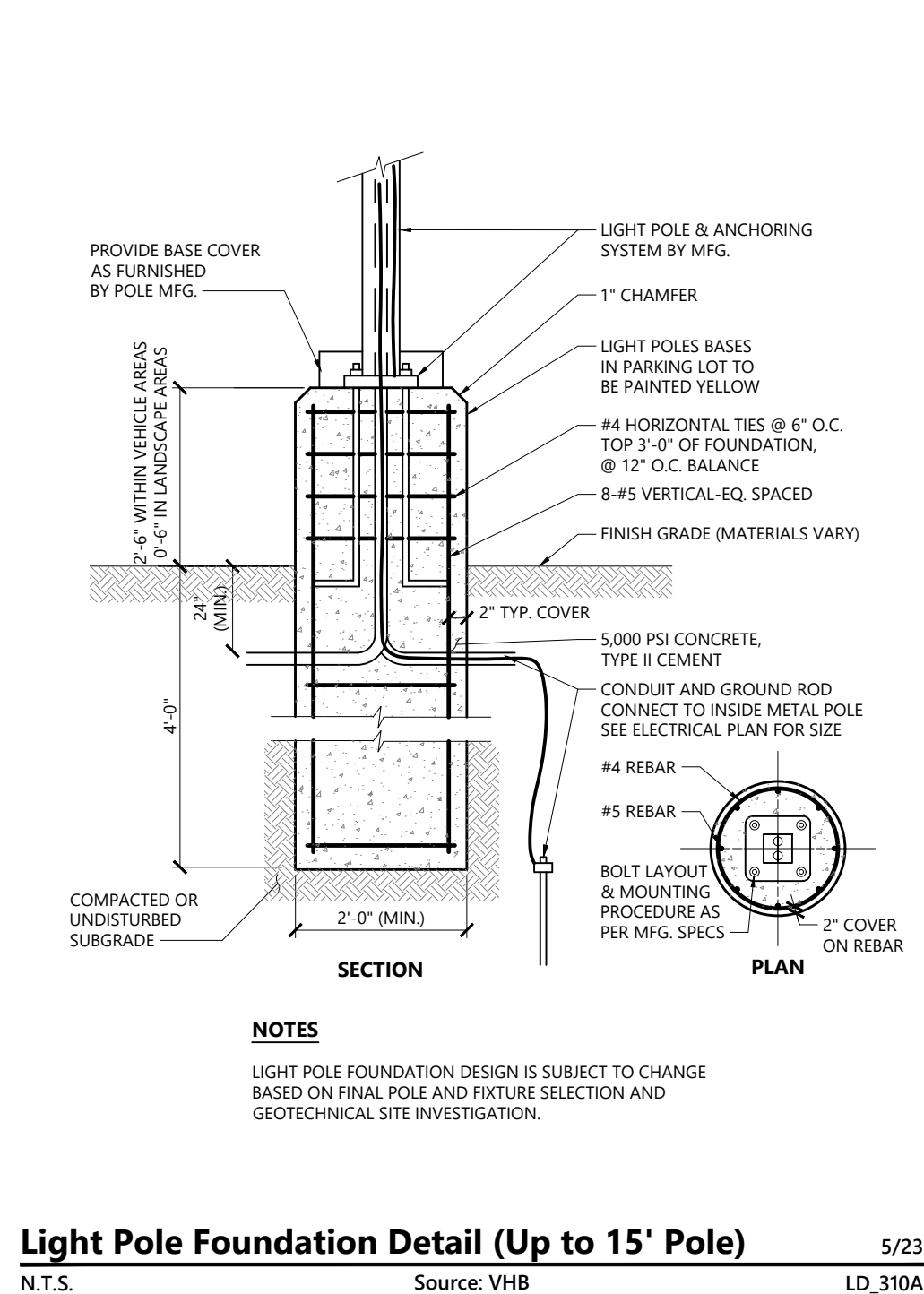
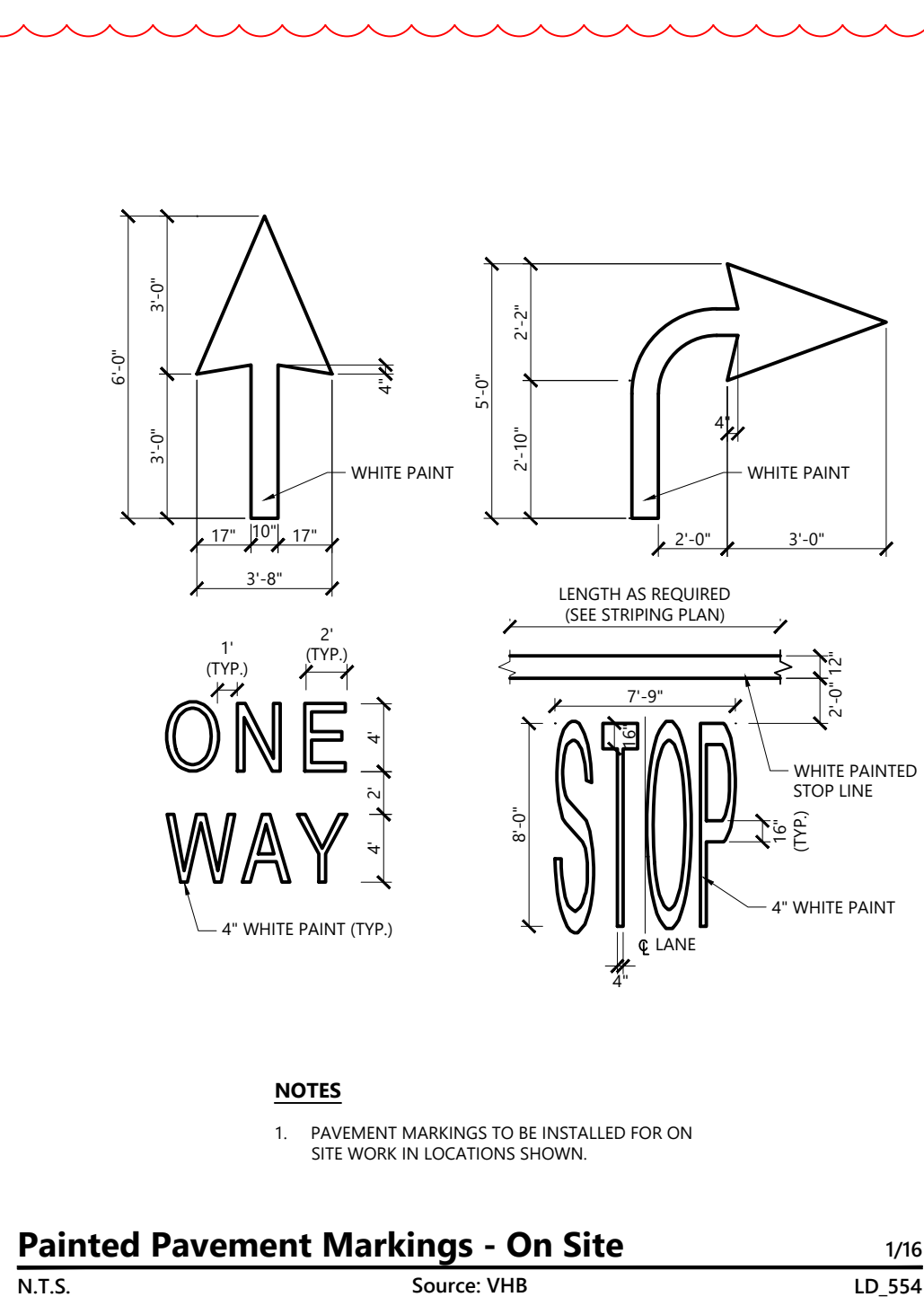
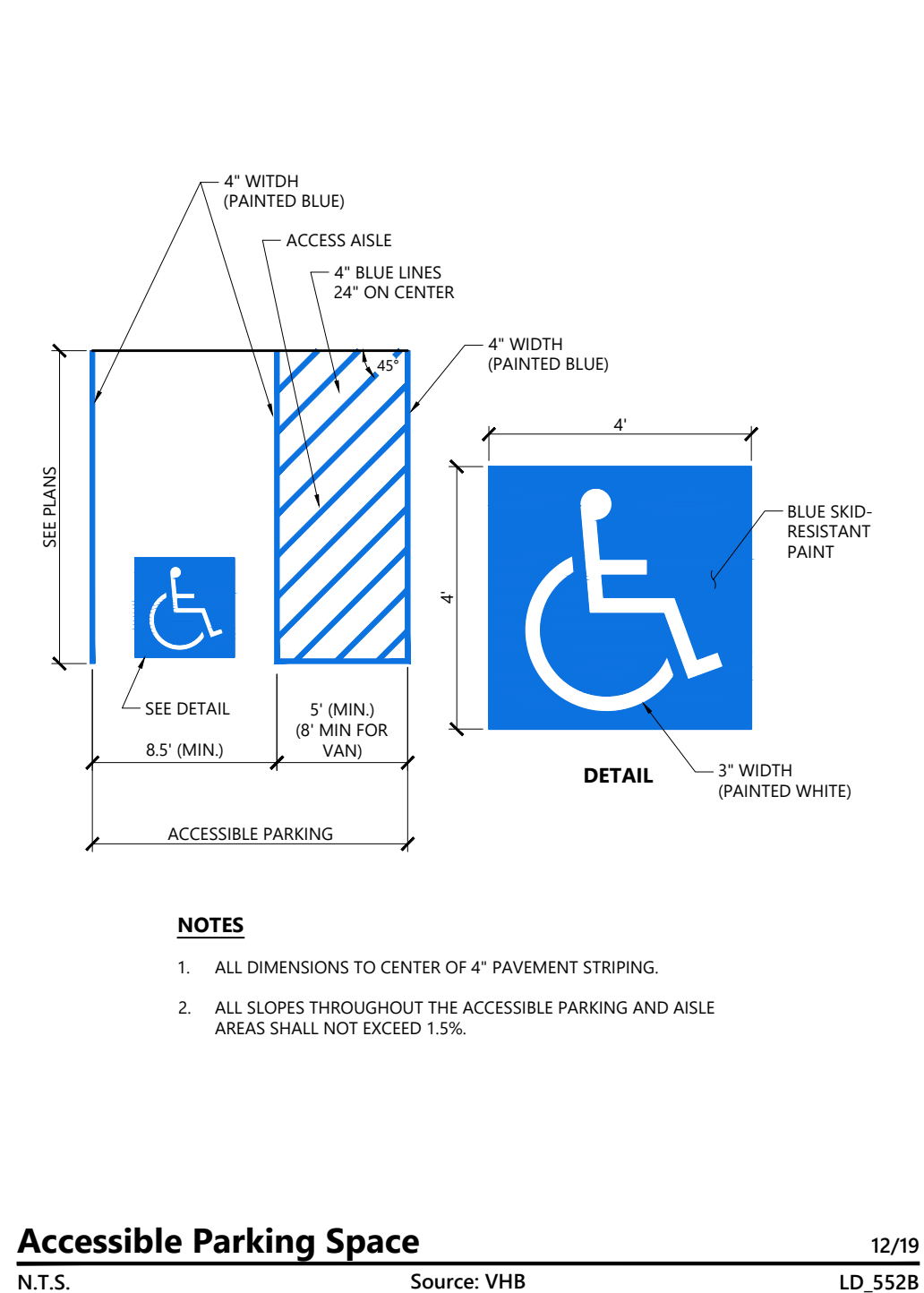
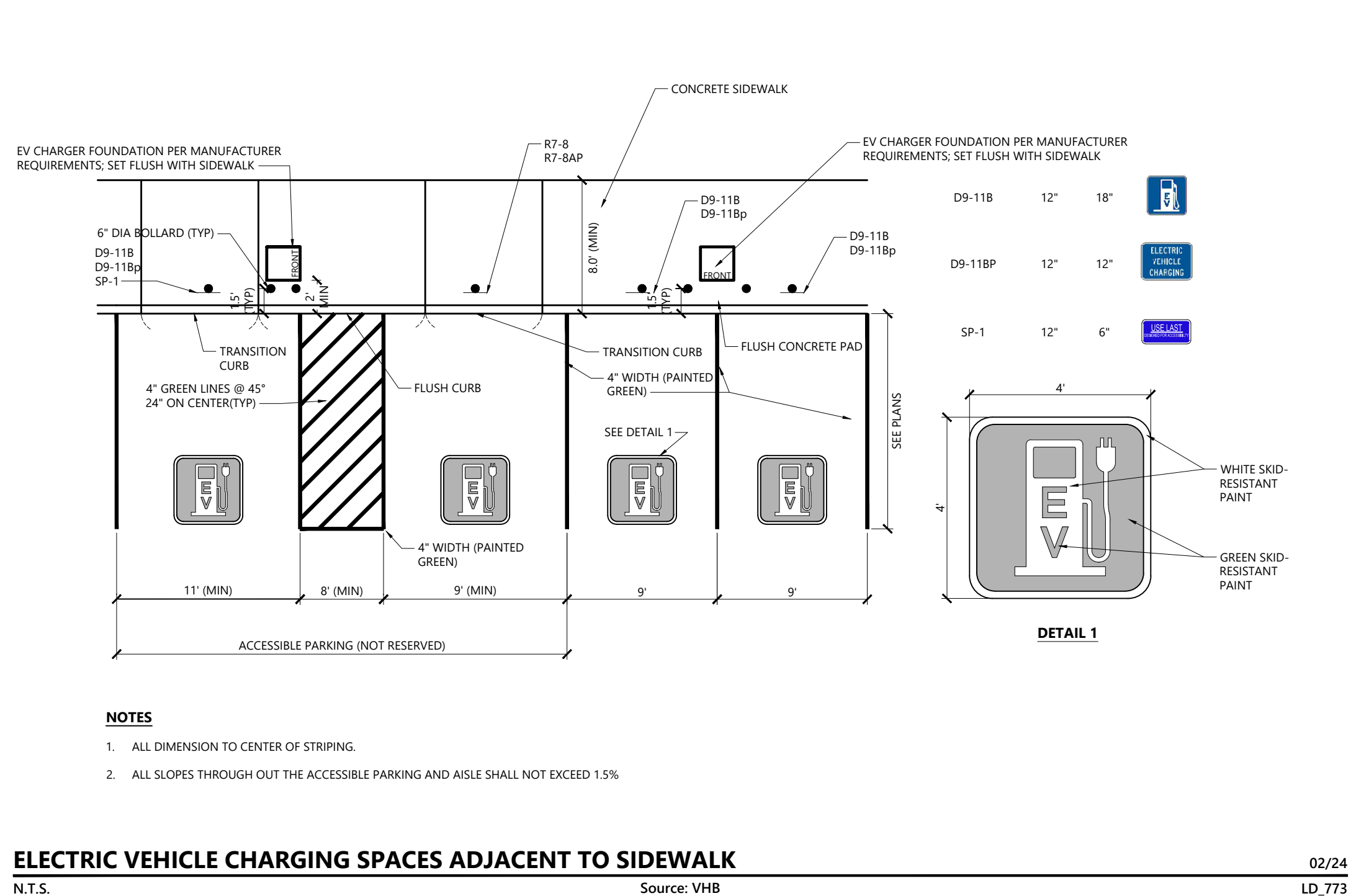
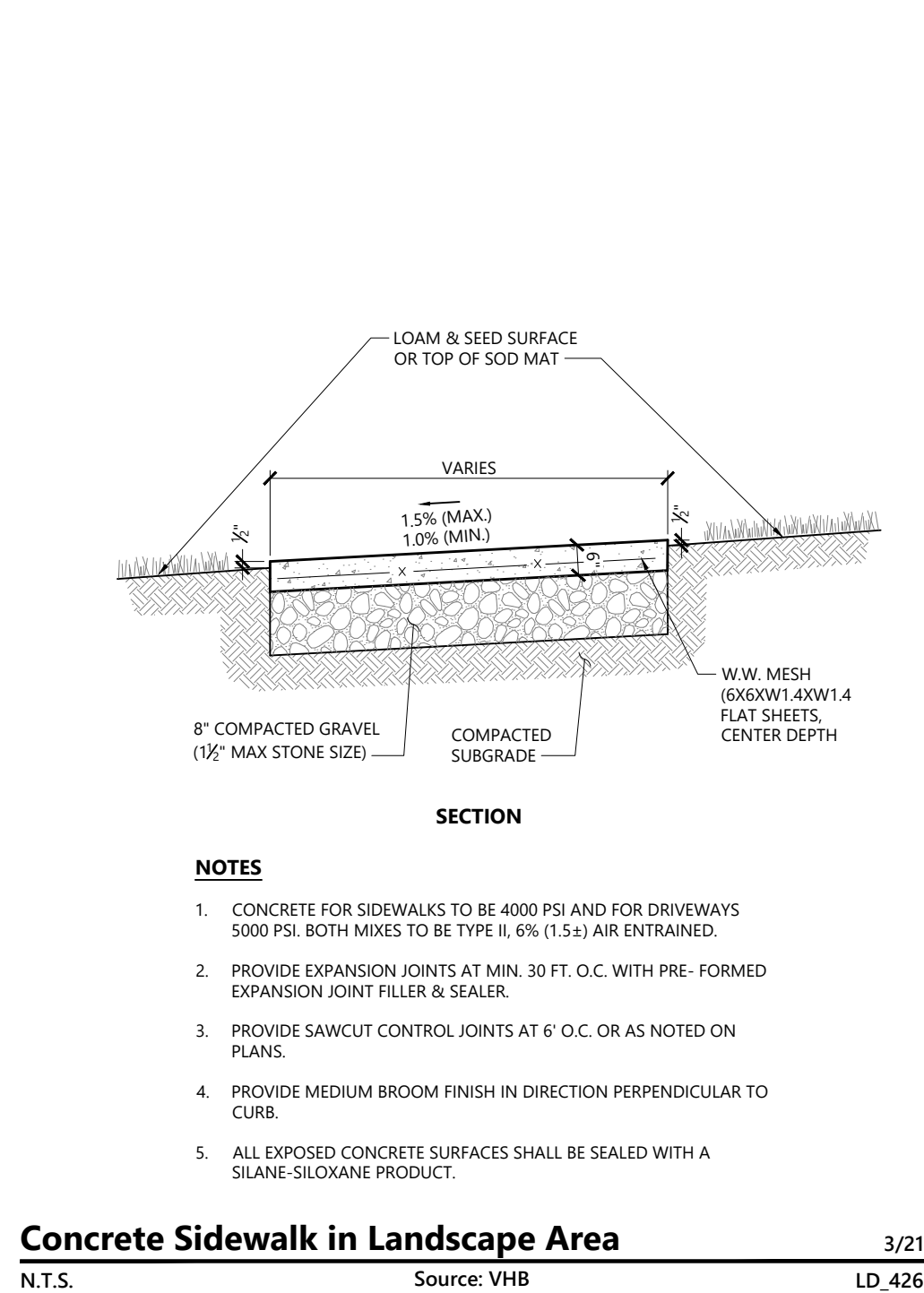
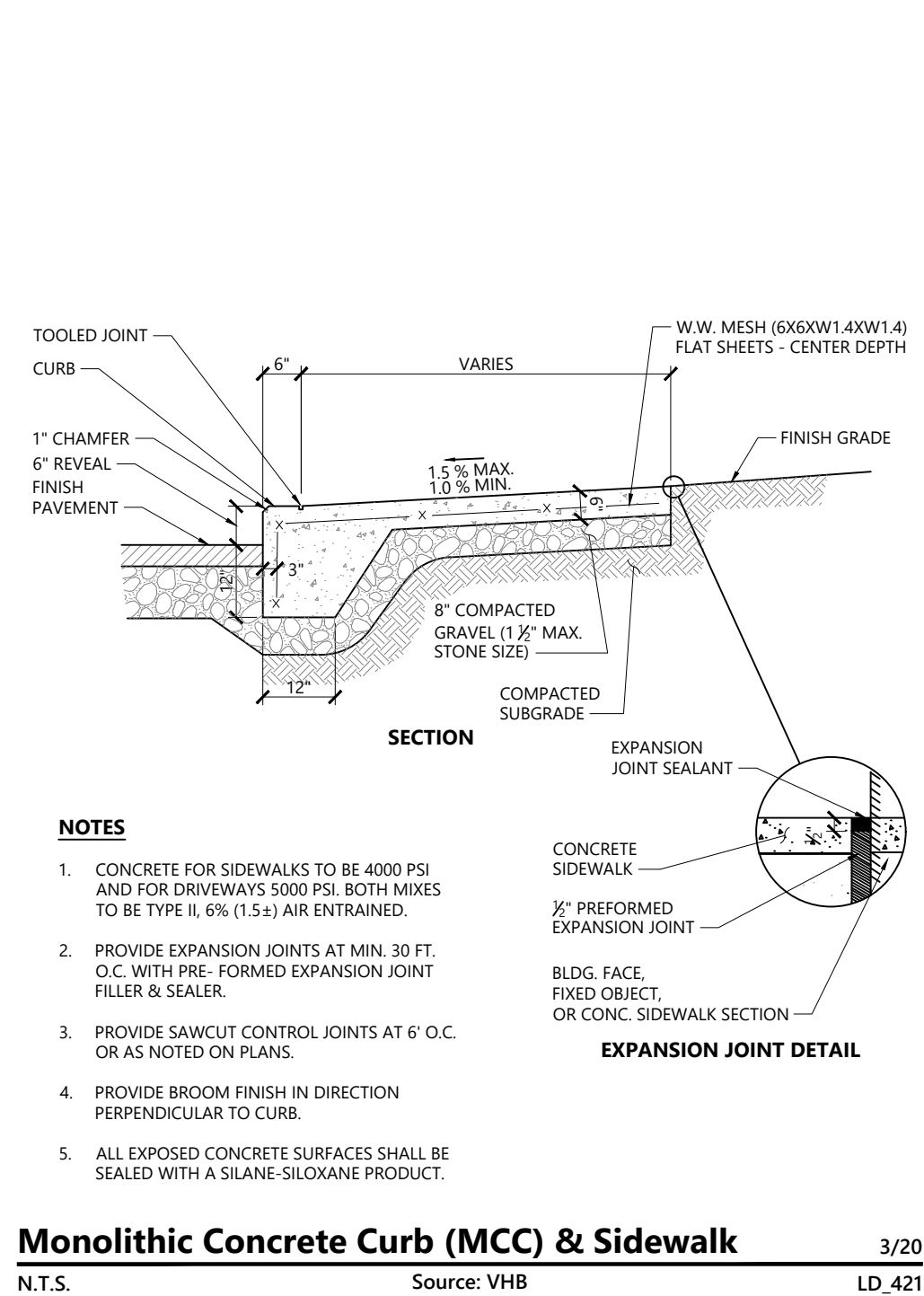
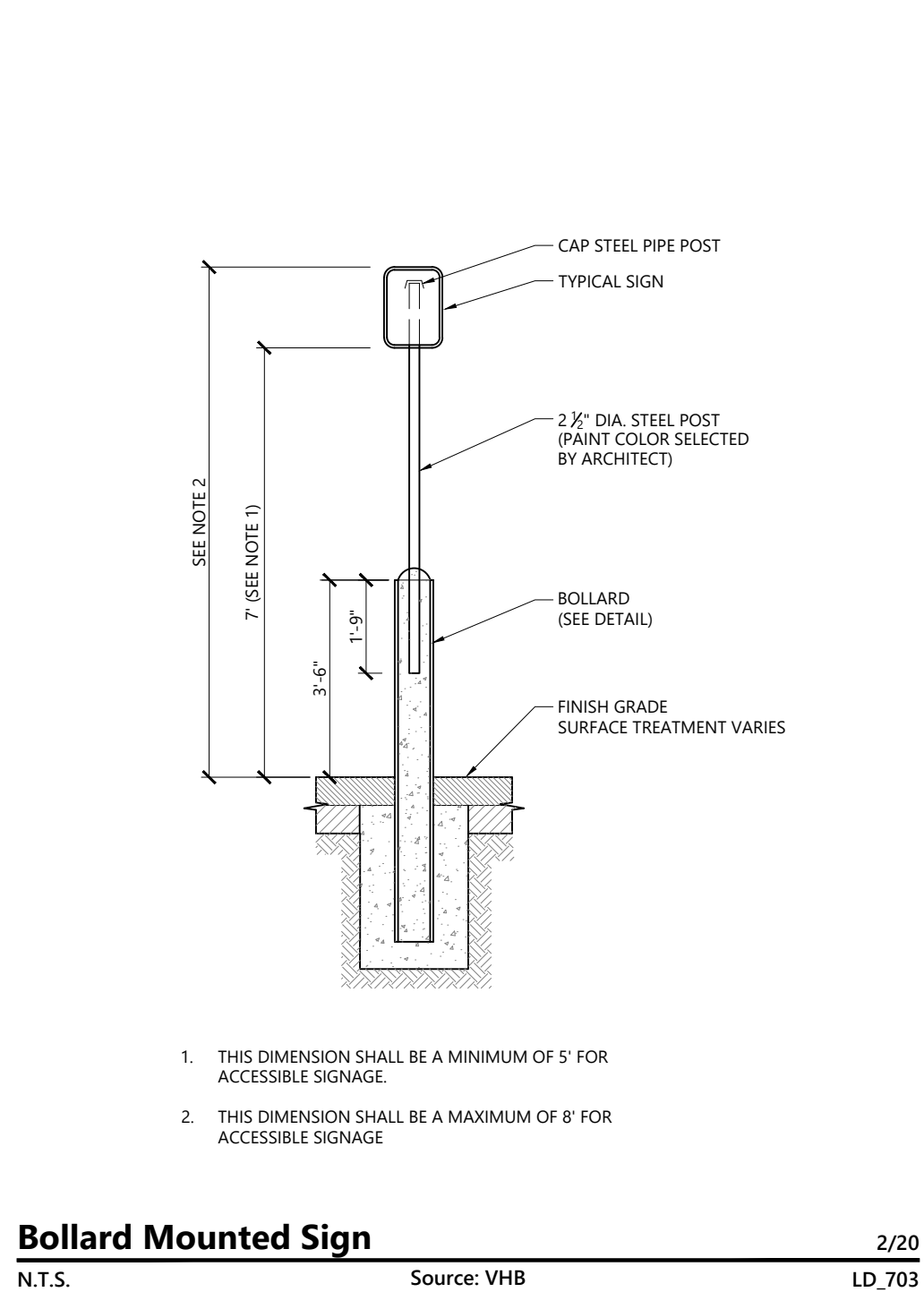
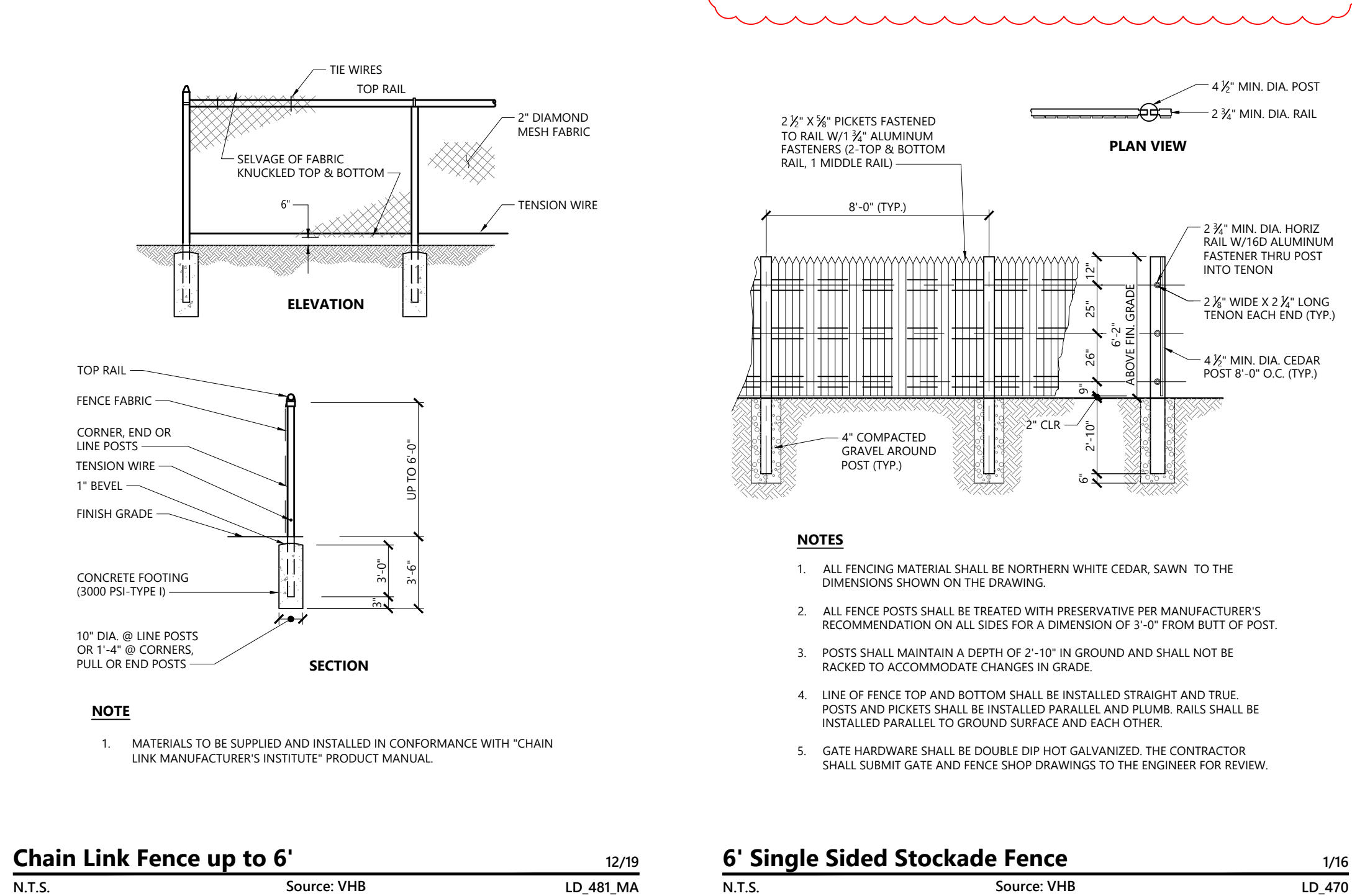
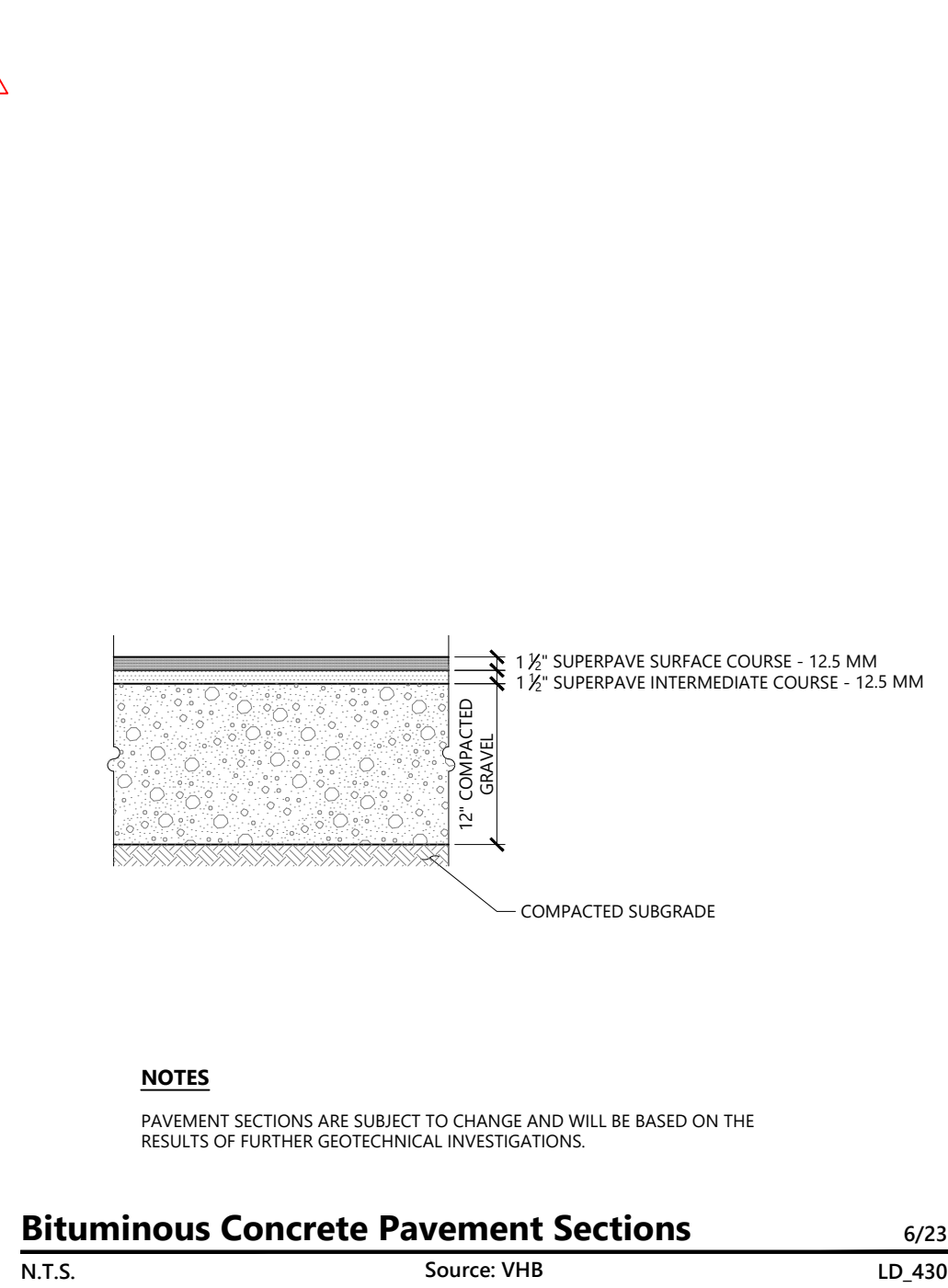
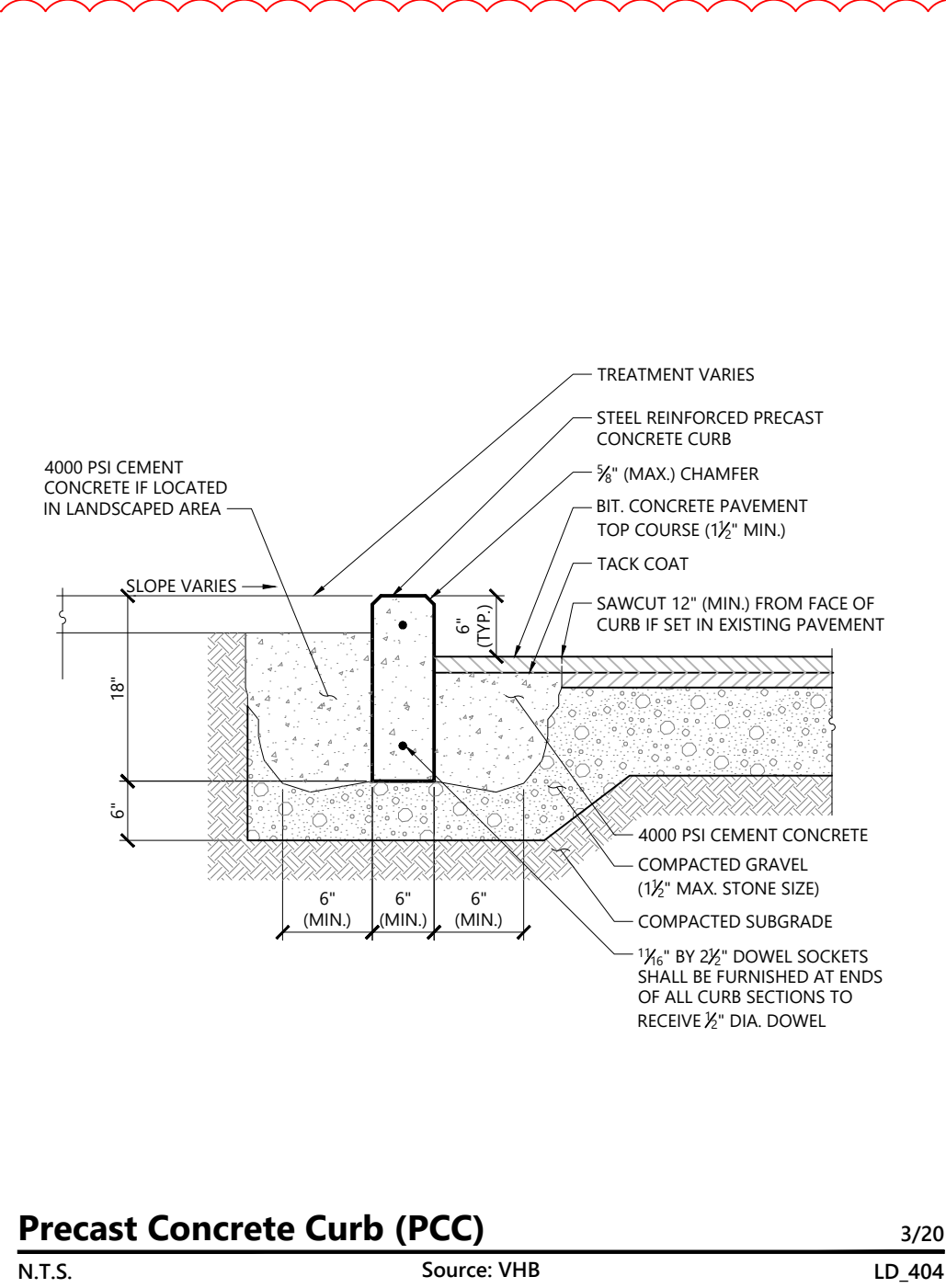
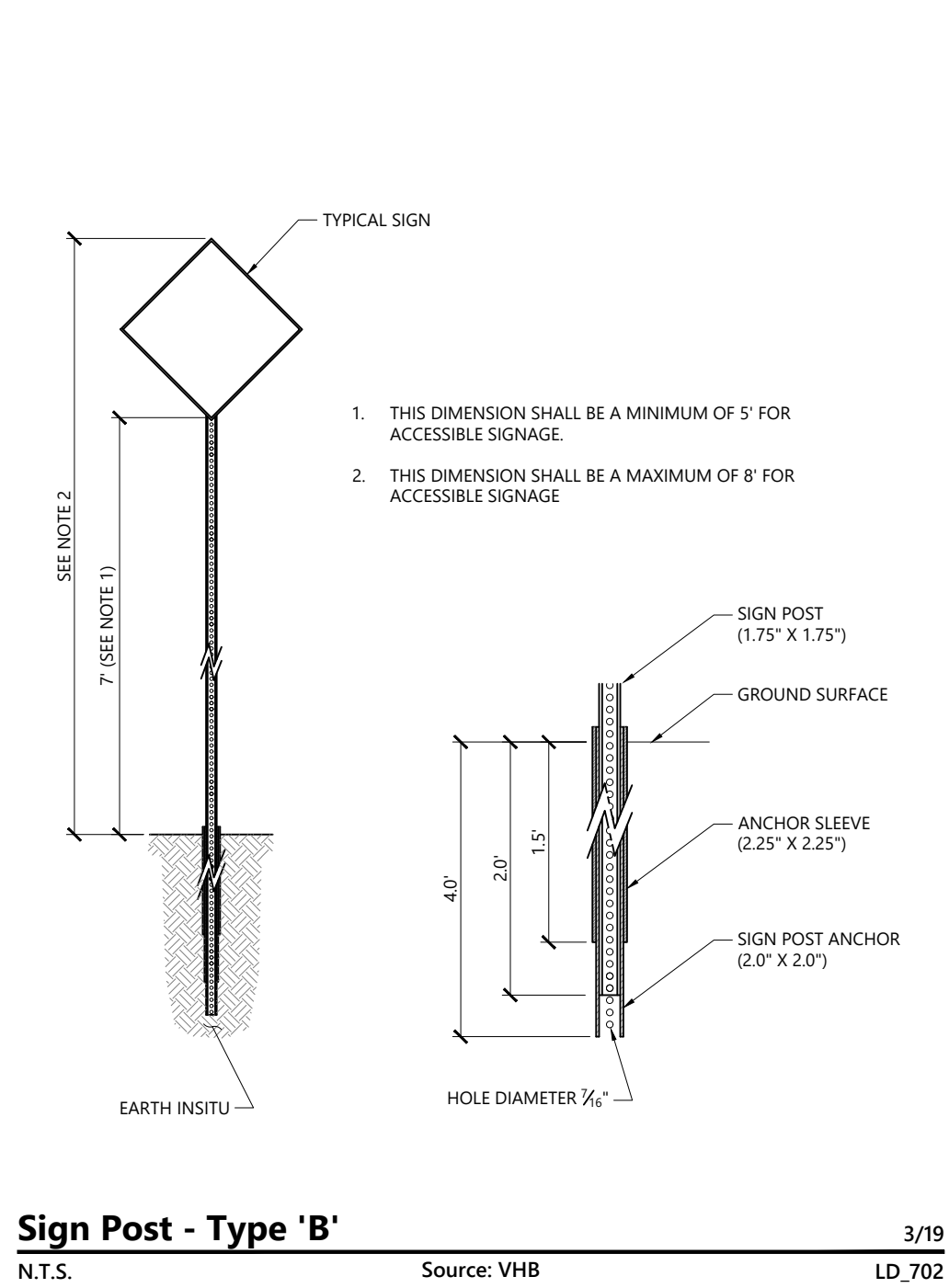
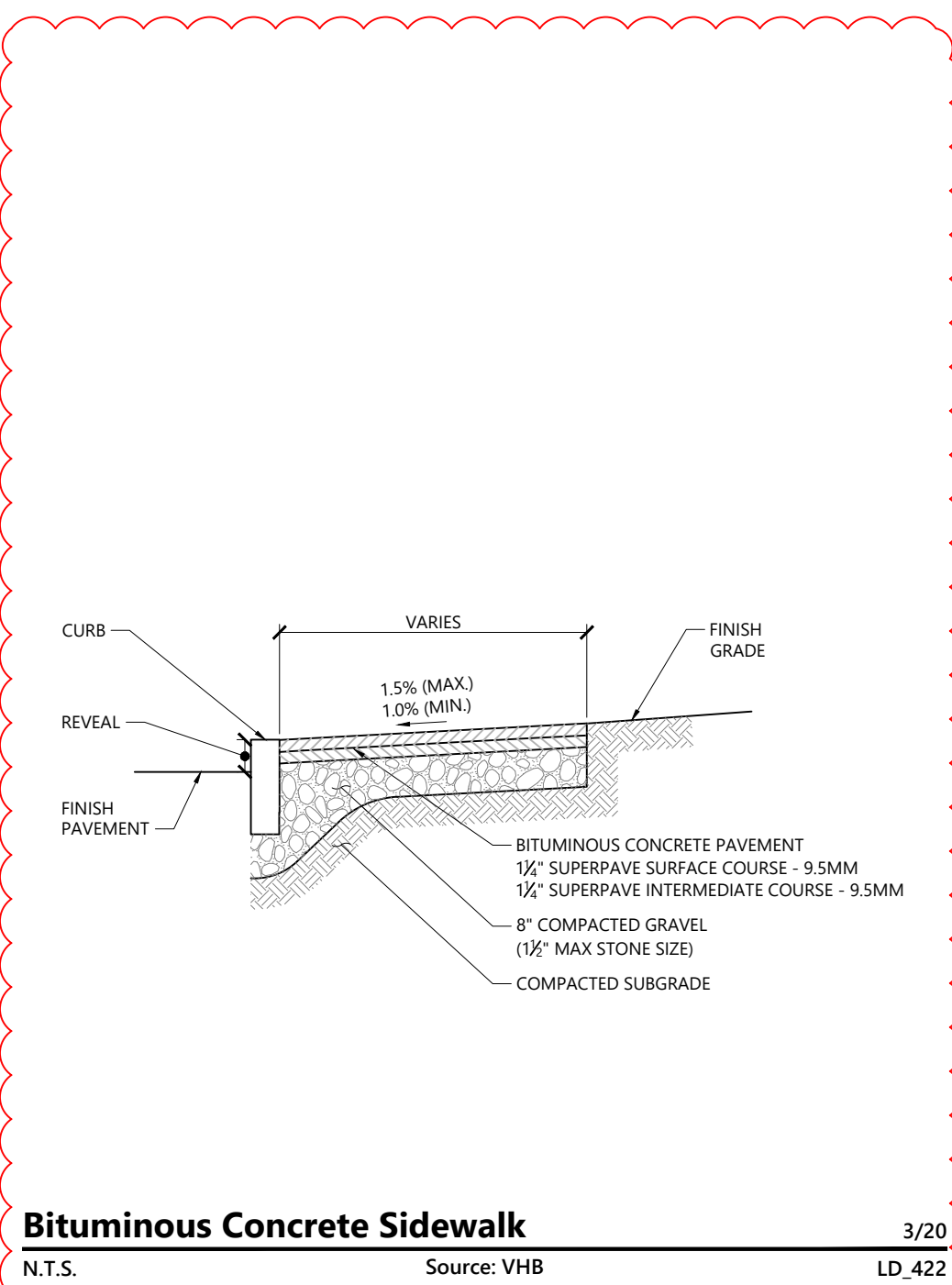
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Number	Date	Issued For
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SITE DETAILS

Date
06/23/2025
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N.T.S.
Proj. Number
25082.00
Drawing Number
C802

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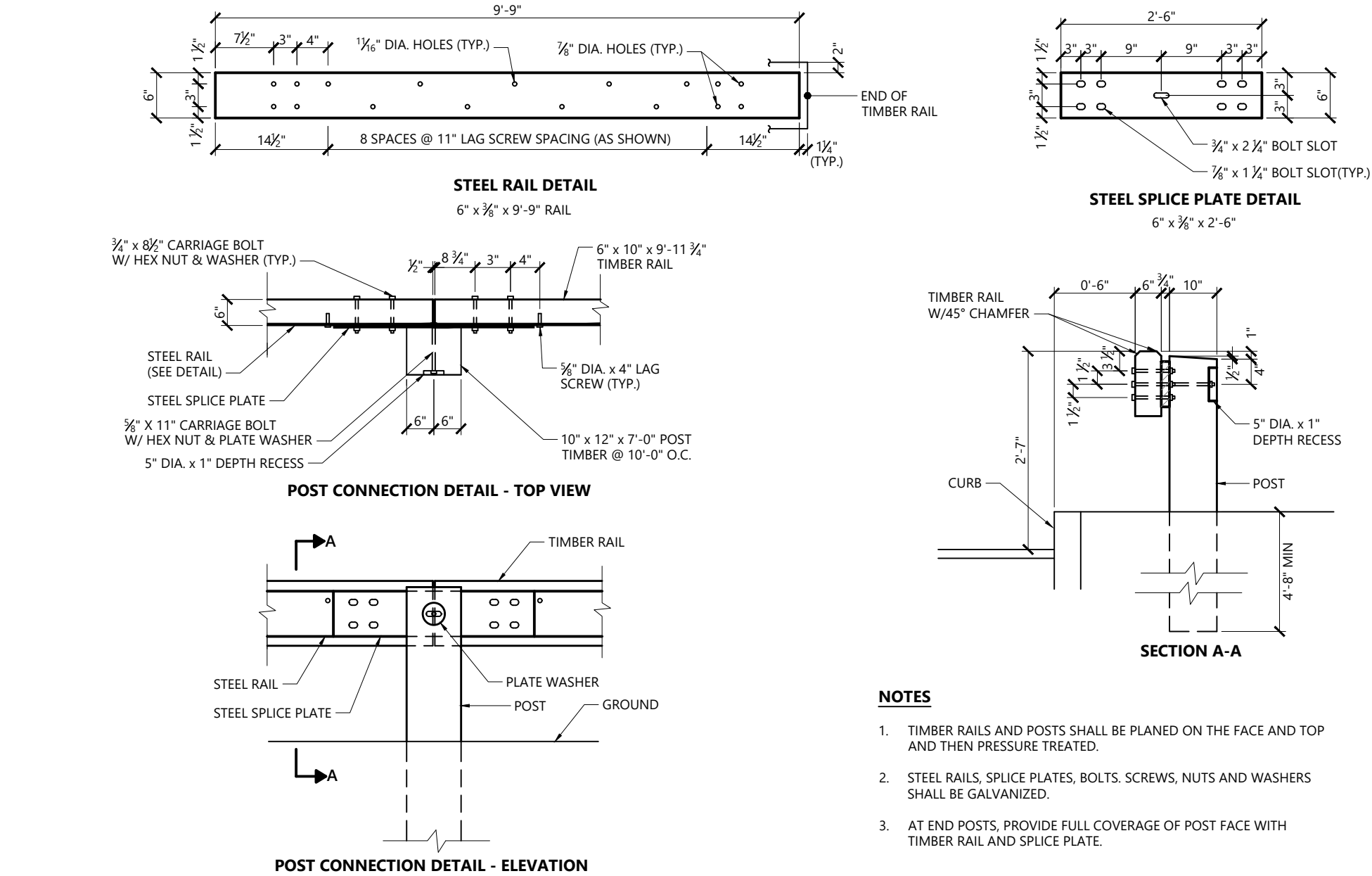
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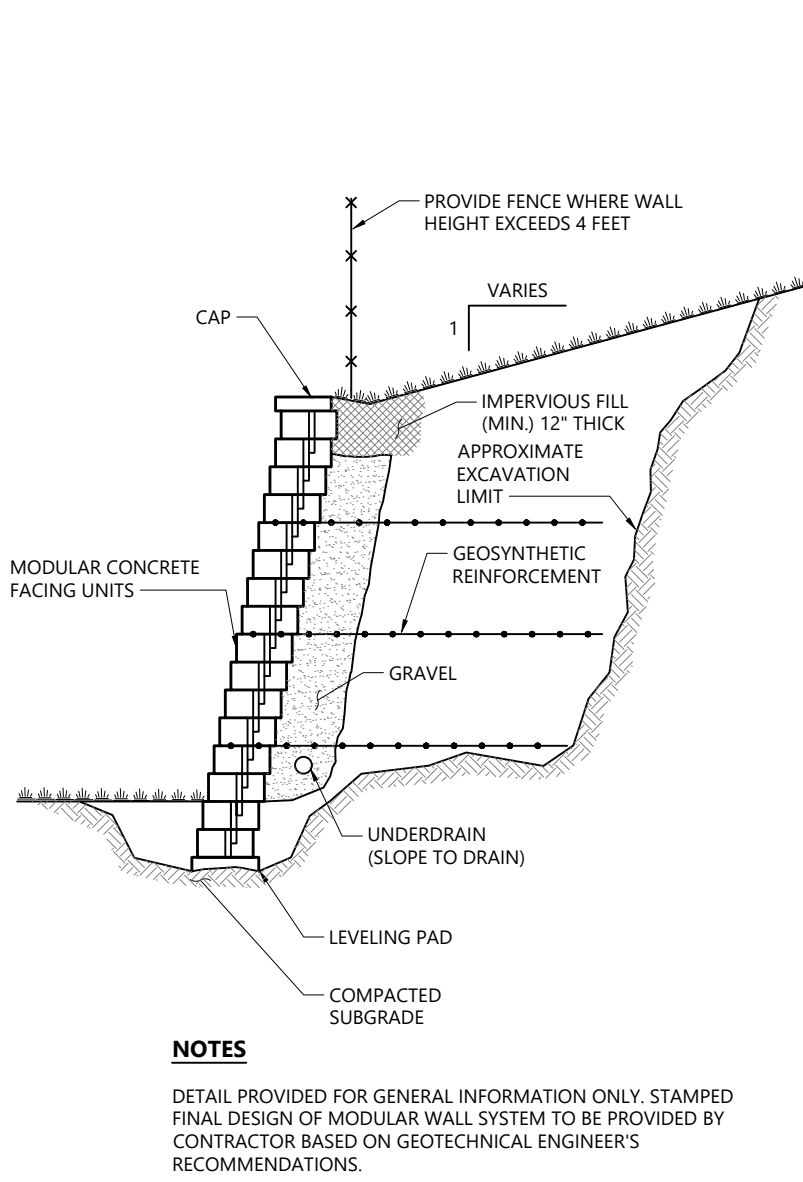
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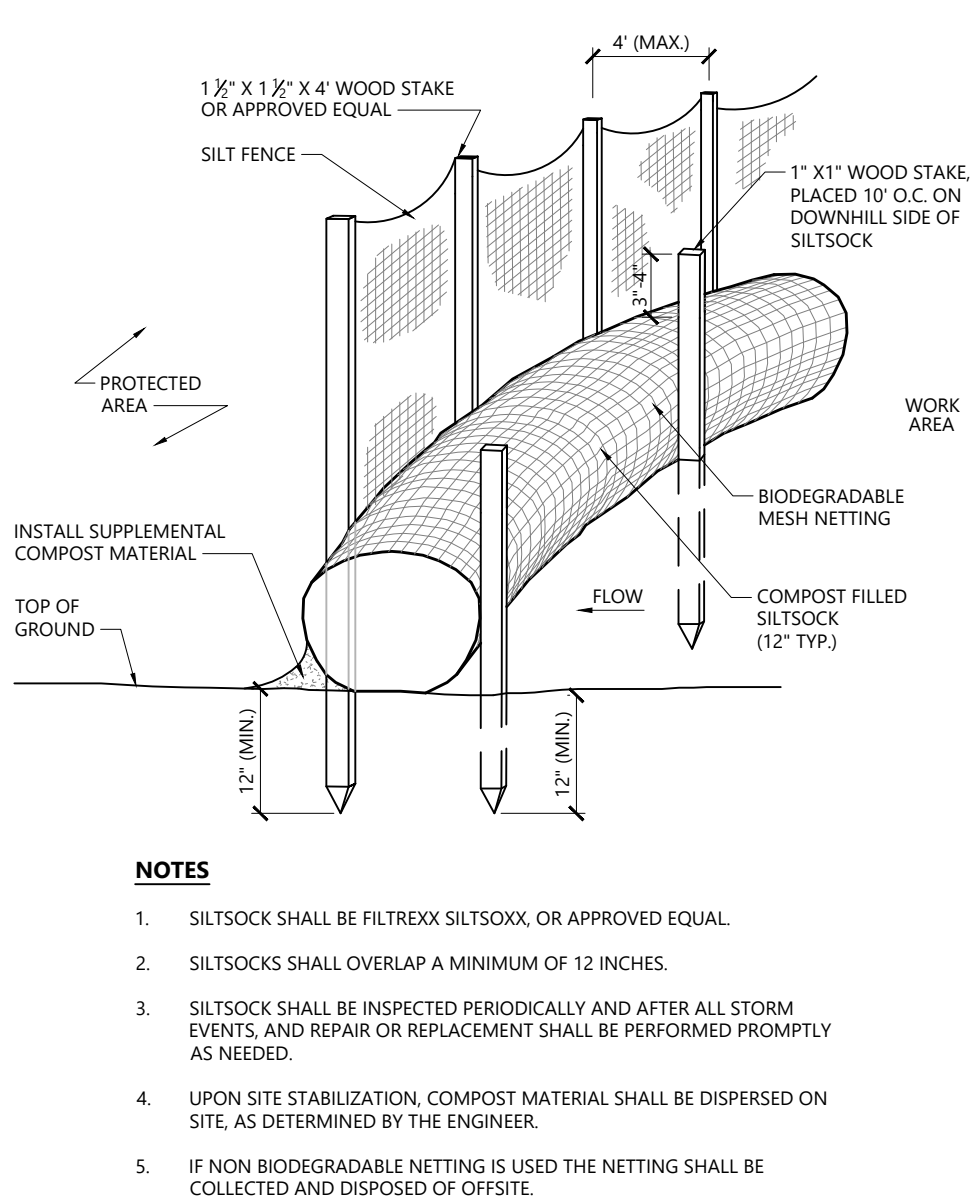
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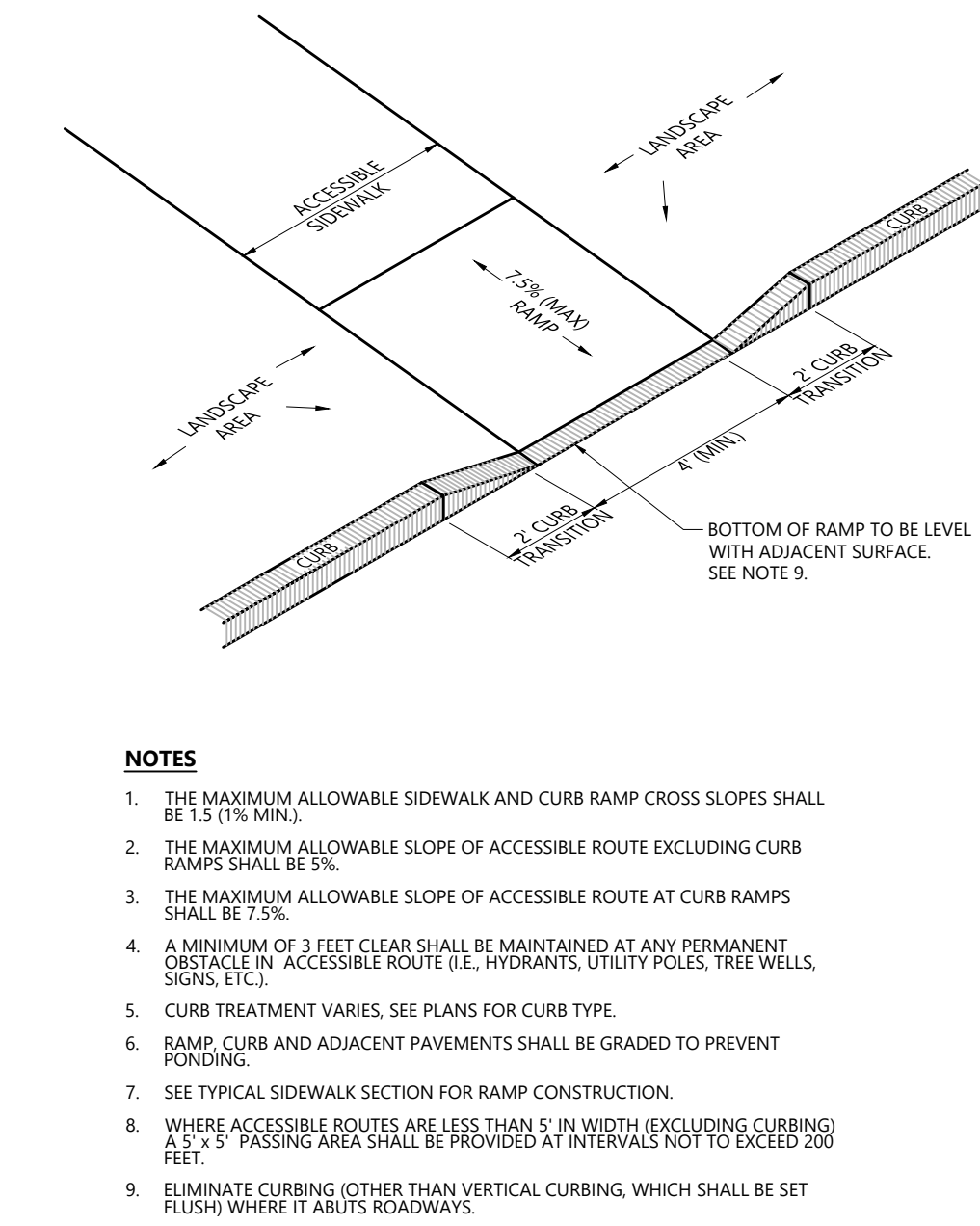
Steel-Backed Wood Guardrail 10/20
N.T.S. Source: VHB LD_452



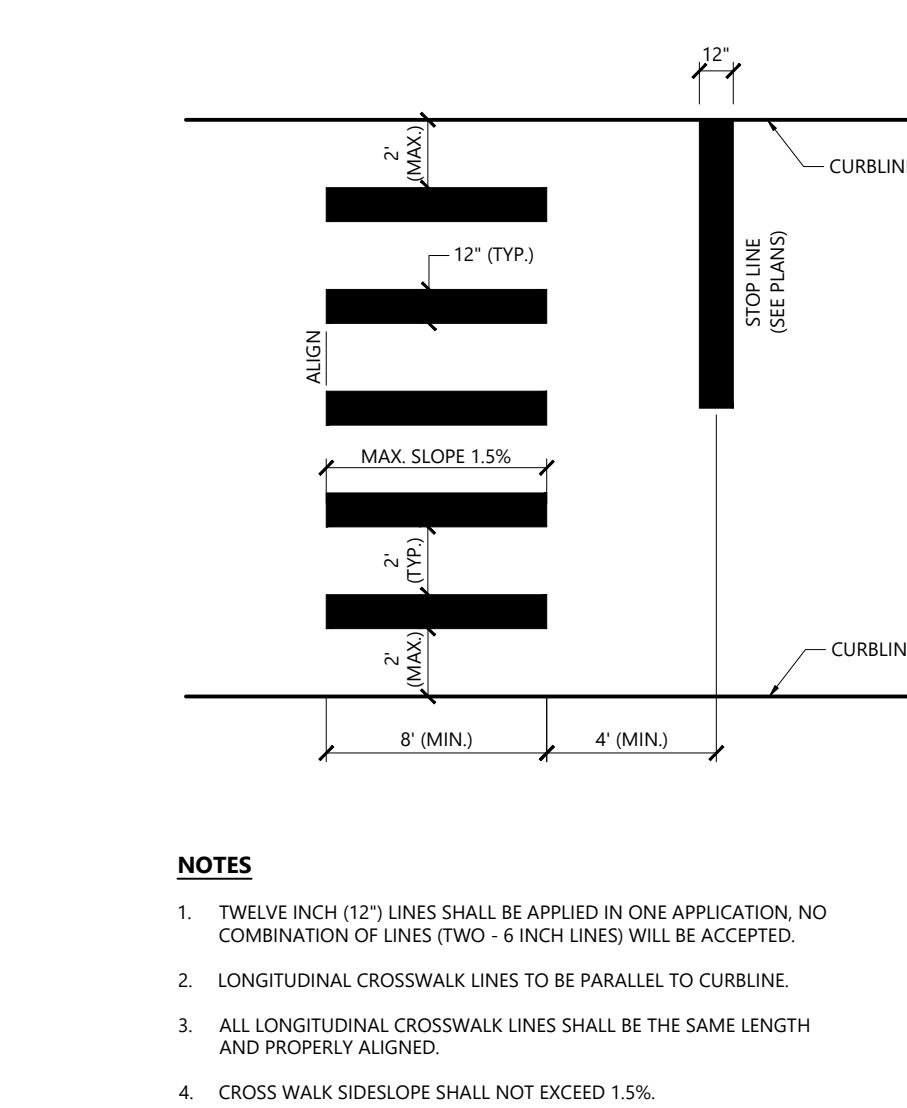
Modular Retaining Wall 10/20
N.T.S. Source: VHB LD_750



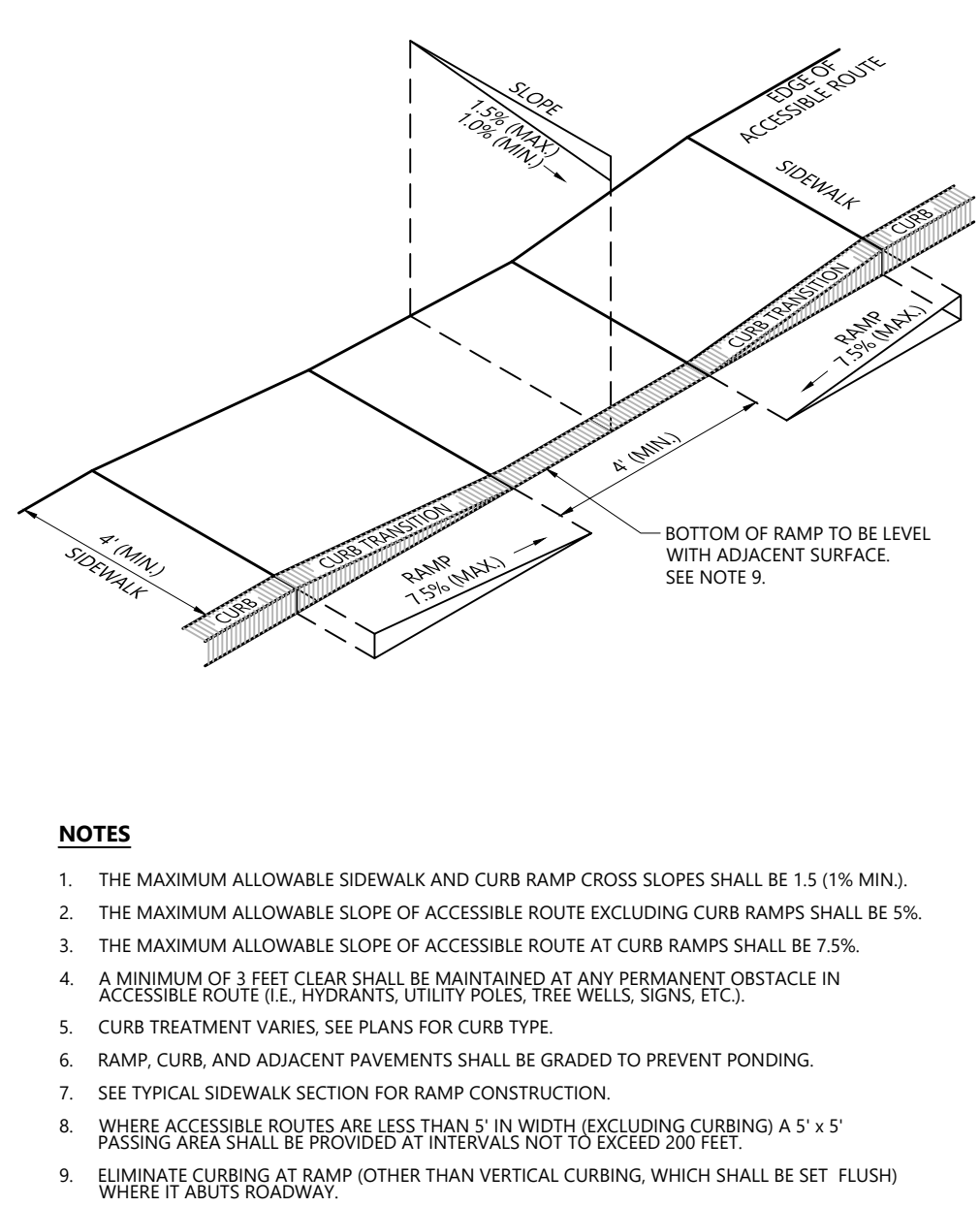
Siltsock / Silt Fence Barrier 10/20
N.T.S. Source: VHB LD_658-A



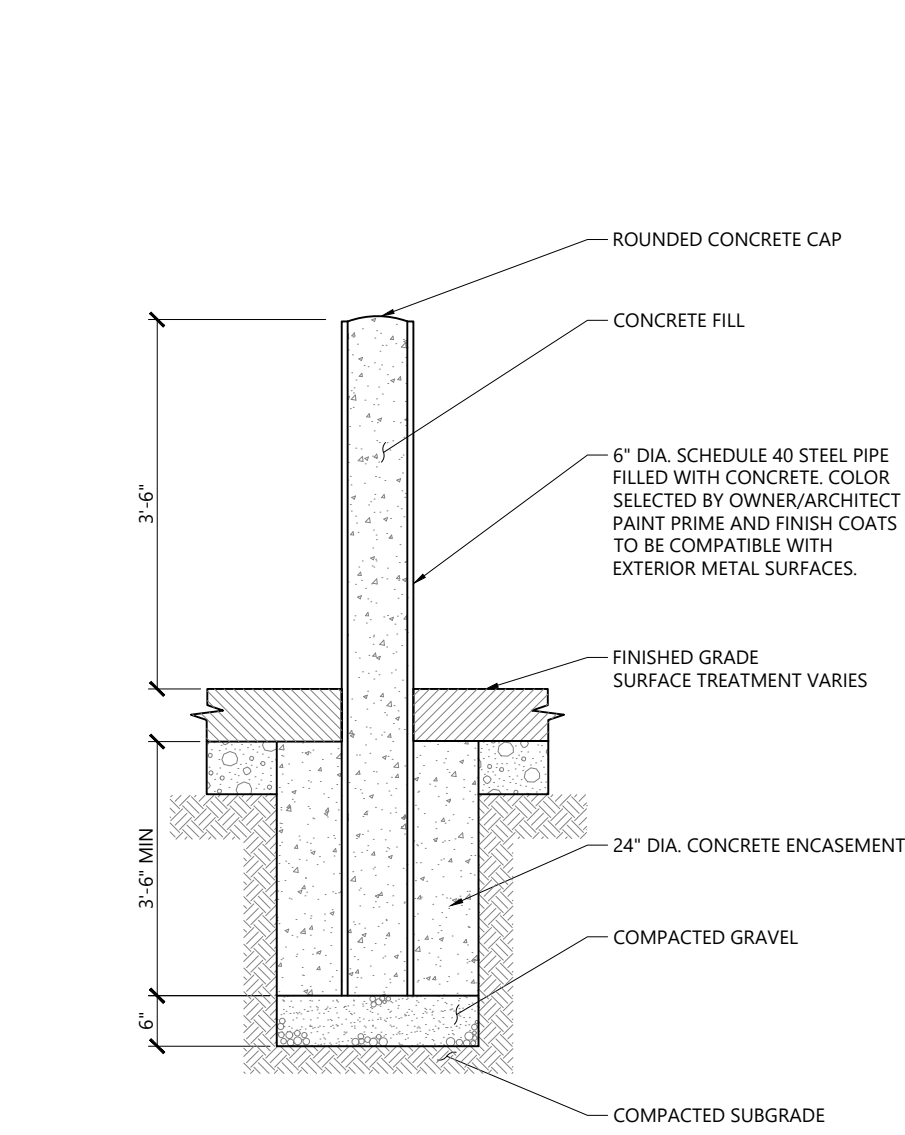
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N.T.S. Source: VHB LD_512



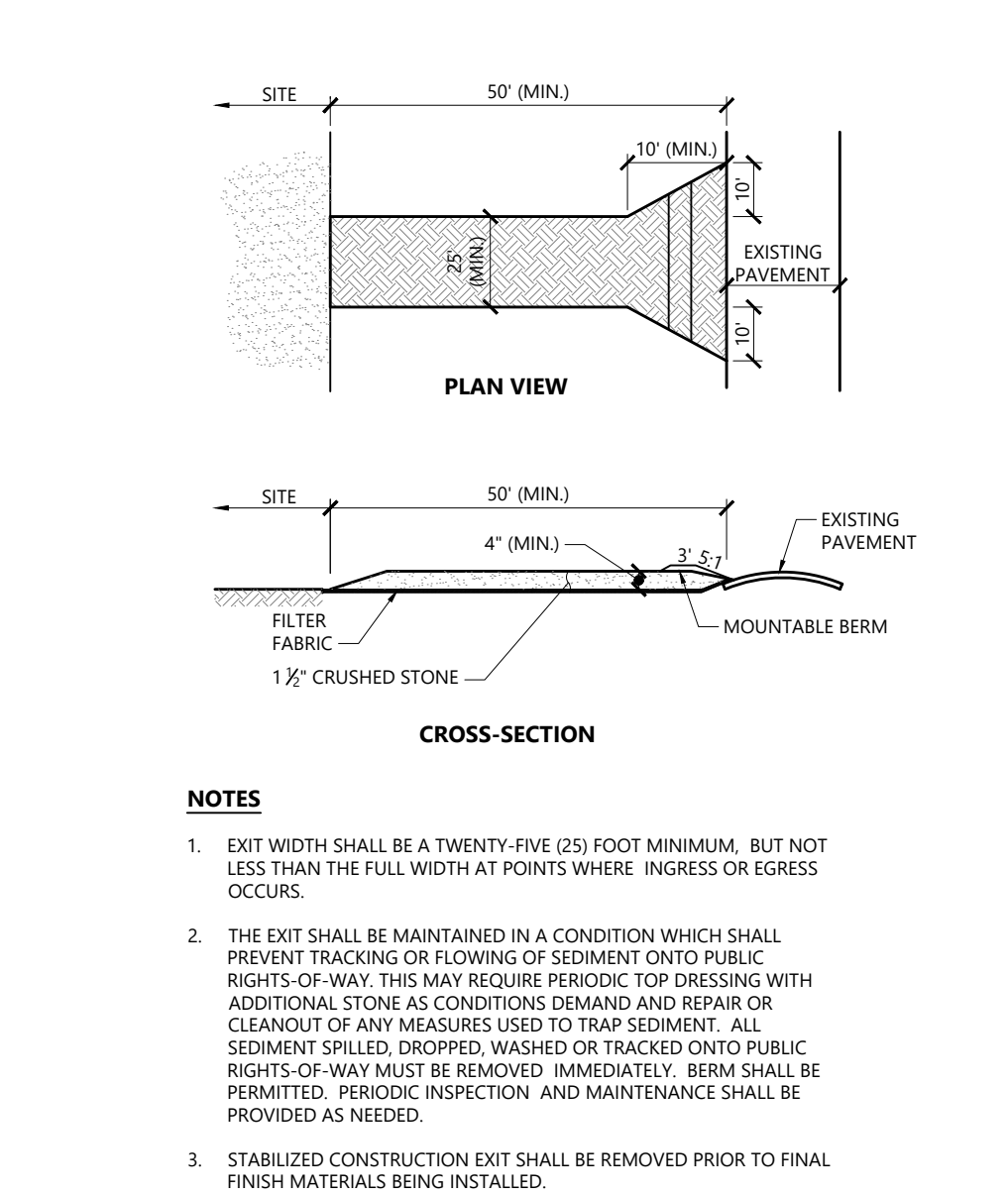
Crosswalk 12/19
N.T.S. Source: VHB LD_553A



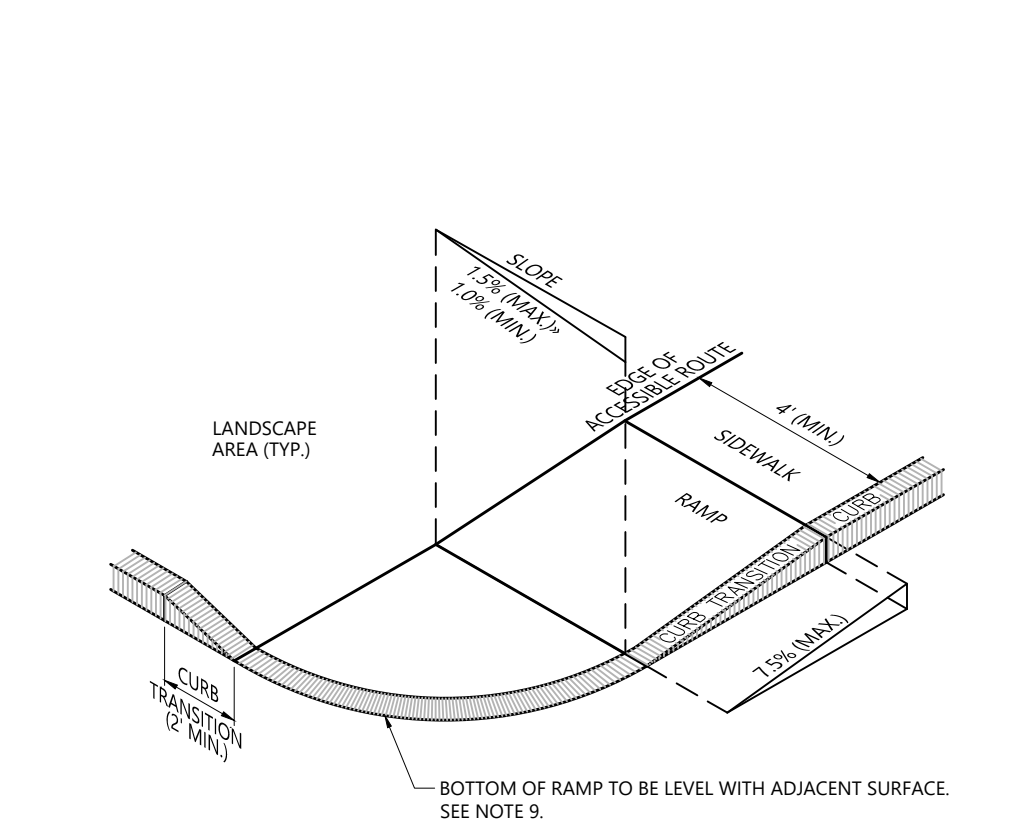
Accessible Curb Ramp (ACR) Type 'A' 12/20
N.T.S. Source: VHB LD_500



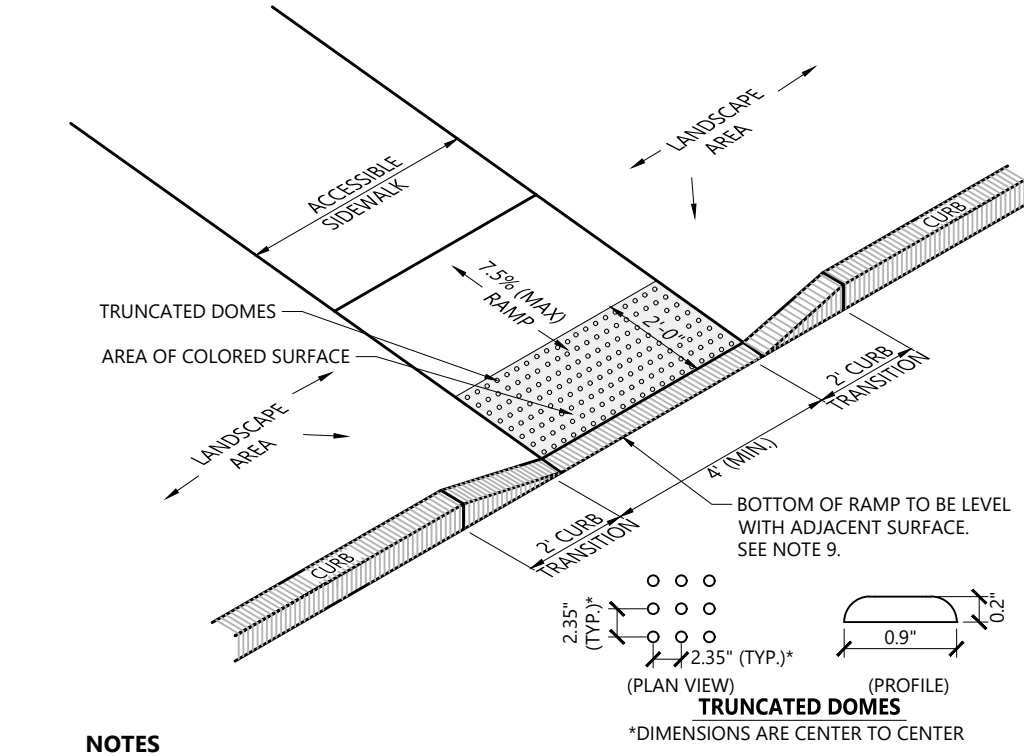
Bollard 12/19
N.T.S. Source: VHB LD_700



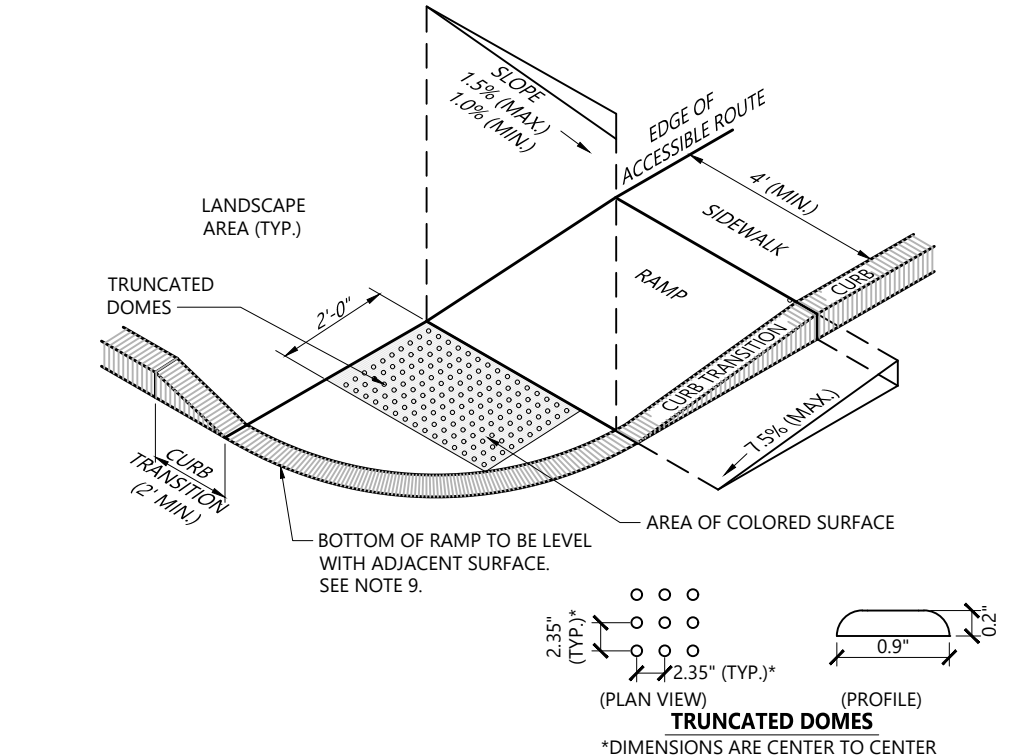
Stabilized Construction Exit 1/16
N.T.S. Source: VHB LD_682



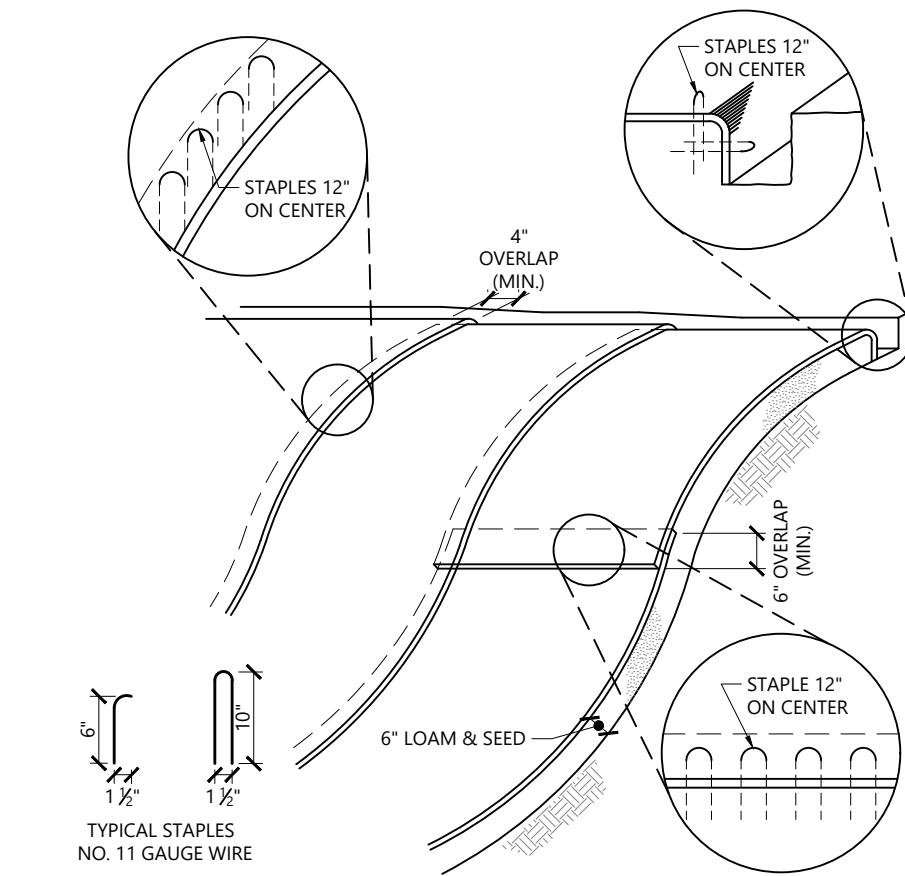
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N.T.S. Source: VHB LD_501



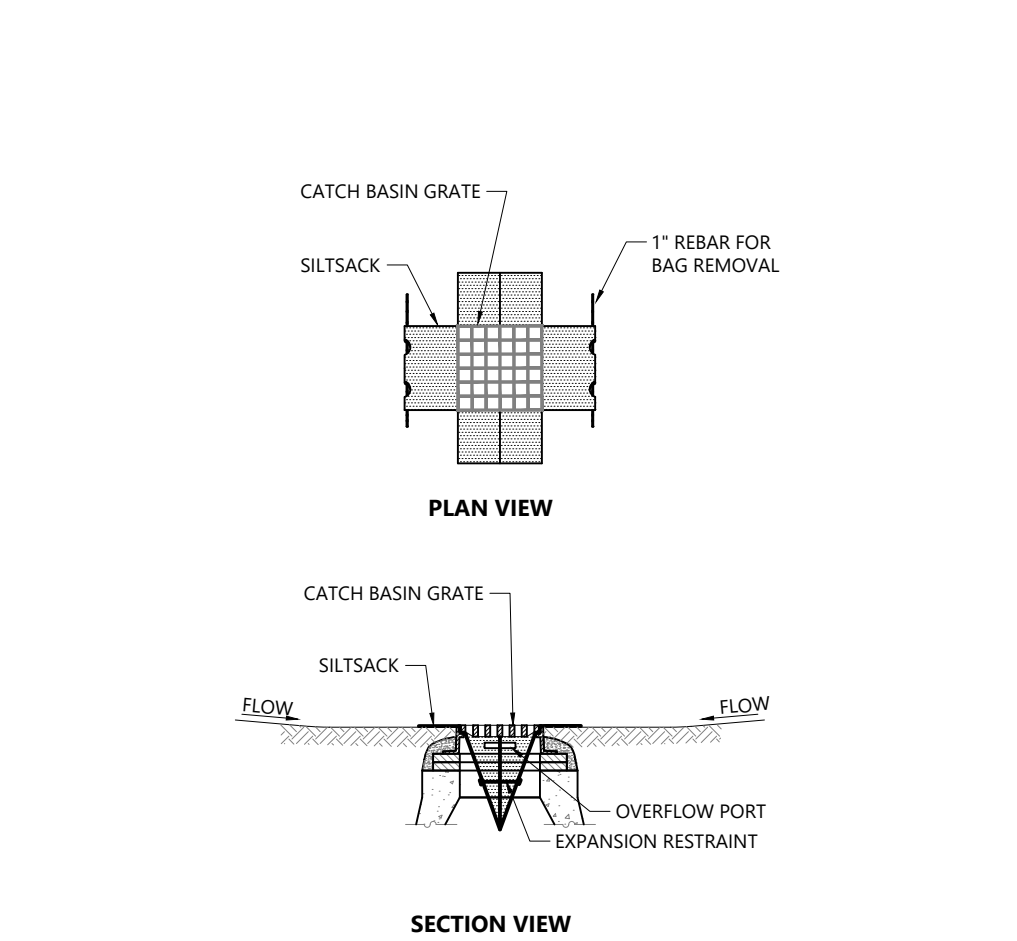
Accessible Curb Ramp (ACR) Type 'M-D' 12/20
N.T.S. Source: VHB LD_512



Accessible Curb Ramp (ACR) - Type 'B-D' 12/20
N.T.S. Source: VHB LD_501



Erosion Control Blanket Slope Installation 10/20
N.T.S. Source: VHB LD_680



Siltsock Sediment Trap 1/20
N.T.S. Source: VHB LD_674

Number	Date	Issued For

SITE DETAILS

Planting Notes

- ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL BELOW GRADE AND ABOVE GROUND UTILITIES AND NOTIFY OWNERS REPRESENTATIVE OF CONFLICTS.
- NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY CONFLICT.
- A 3-INCH DEEP MULCH PER SPECIFICATION SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR SPECIFICATION, OR APPROVED BY THE OWNER'S REPRESENTATIVE.
- FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS GRAPHICALLY SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLANT LIST AND PLANT LABELS PRIOR TO BIDDING.

Sod Notes

- CONTRACTOR TO TAKE RESPONSIBILITY TO EXERCISE CARE IN THE PLACEMENT OF SOD. SOD SHOULD BE LAID (AND PINNED UNTIL ESTABLISHED) WITH STAGGERED ROWS RUNNING PARALLEL TO SLOPE CONTOURS. IN SLOPE SITUATIONS, BEGIN SOD AT BASE OF SLOPE AND WORK UPHILL. ALL SOD SHOULD BE ROLLED AND FERTILIZED WITH A SLOW RELEASE NITROGEN FERTILIZER FIVE DAYS AFTER PLANTING AT A RATE OF 0.9 LBS / 1,000 SF. NEWLY SODDED AREAS SHALL BE KEPT MOIST FOR THE FIRST WEEK AFTER PLANTING AFTER WHICH A WATERING RATE OF 2" PER WEEK, INCLUDING RAINFALL, SHOULD BE SUFFICIENT.
- CONTRACTOR TO BRING SOD AREAS TO SUBGRADE BY 2". TAKE RESPONSIBILITY FOR PRE-TILLAGE TO SCARIFY SOILS IN ALL PLANTING AREAS TO A MINIMUM DEPTH OF 4". DENSELY COMPACTED AREAS BETWEEN 85% AND 90% AREA TO BE CROSSED RIPPED TO A MINIMUM 8" DEPTH. IN THE PROCESS OF TILLING, UNACCEPTABLE MATERIALS INCLUDING, BUT NOT LIMITED TO, FOREIGN DEBRIS, CONSTRUCTION WASTE, ROOTS, CONCRETE ASPHALT AND ROCKS GREATER THAN 2" DIAMETER ON AVERAGE, SHALL BE REMOVED. IN AREAS TO RECEIVE SOD, SPREAD 2" OF PREPARED PLANTING SOIL AND TILL IN FERTILIZER TO A DEPTH OF 2" AT A RATE OF 12 POUNDS PER CUBIC FT.
- CONTRACTOR SHALL VERIFY THE EXTENT OF SOD WORK IN THE FIELD, INCLUDING GRASS AREAS DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SOD IN THE AREAS SHOWN ON THE PLAN, IN SUFFICIENT QUANTITY TO PROVIDE FULL COVERAGE. ADDITIONAL GRASS REQUIRED WILL BE ADJUSTED BASED ON SQUARE FOOTAGE UNIT PRICE. ALL GRASSED AREAS SHALL BE AMENDED PER SOILS REPORT TO PROVIDE REQUIRED NUTRIENTS AND SOIL PH PER SPECIFICATIONS.

Plant Maintenance Notes

- CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE LAWNS AND PLANTINGS. NO IRRIGATION IS PROPOSED FOR THIS SITE. THE CONTRACTOR SHALL SUPPLY SUPPLEMENTAL WATERING FOR NEW LAWNS AND PLANTINGS DURING THE ONE YEAR PLANT GUARANTEE PERIOD.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. WATER SHALL BE PROVIDED BY THE CONTRACTOR.
- WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
- WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
- CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS AT THE END OF THE ONE YEAR GUARANTEE PERIOD. CONTRACTOR SHALL TURN OVER MAINTENANCE TO THE FACILITY MAINTENANCE STAFF AT THAT TIME.

Tree Requirements

PER ZONING REQUIREMENTS, 1 TREE SHALL BE REQUIRED FOR EVERY 8 PARKING SPACES.

CURRENT PROJECT = 74 SPACES, THEREFORE 10 TREES REQUIRED

CURRENT AND FUTURE PROJECT = 145 SPACES, THEREFORE 19 TREES REQUIRED

PLANT SCHEDULE (CURRENT PROJECT & POTENTIAL FUTURE PROJECT)

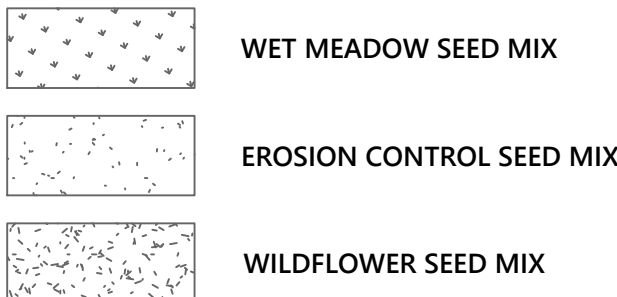
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
DECIDUOUS TREES				
AR	5	Acer rubrum	Red Maple	4" CAL. (MIN.)
NS	9	Nyssa sylvatica	Tupelo (Male cultivar)	4" CAL. (MIN.)
QC	4	Quercus coccinea	Scarlet Oak	4" CAL. (MIN.)
QP	4	Quercus palustris	Pin Oak	4" CAL. (MIN.)
TA	7	Tilia americana	American Linden	4" CAL. (MIN.)
EVERGREEN TREES				
PA1	6	Picea abies	Norway Spruce	4 - 5' HT.
PG	5	Picea glauca	White Spruce	4 - 5' HT.
TP	4	Thuja plicata 'Green Giant'	Green Giant Arborvitae	4 - 5' HT.

Note:

SEE SHEET L102 FOR SHRUB PLANTINGS AND BUFFER ZONE NATURALIZATION PLANTINGS.

Seed Mixtures:

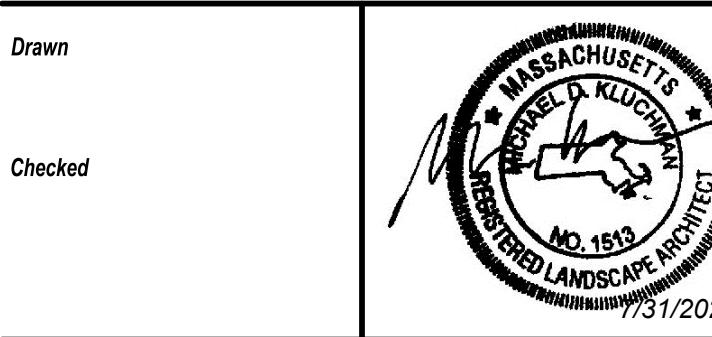
- AREAS INDICATED AS "WET MEADOW MIX" ARE TO BE SEEDED AS SPECIFIED ON L102, OR AN APPROVED EQUAL, APPLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- AREAS INDICATED AS "EROSION CONTROL SEED MIX" ARE TO BE SEEDED WITH NEW ENGLAND CONSERVATION EROSION CONTROL/RESTORATION MIX FOR DRY SITES, AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. AMHERST, MA (413) 548-8000, www.NEWP.com, OR AN APPROVED EQUAL, APPLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- AREAS INDICATED AS "WILDFLOWER SEED MIX" ARE TO BE SEEDED WITH NEW ENGLAND WILDFLOWER MIX, AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. AMHERST, MA (413) 548-8000, www.NEWP.com, OR AN APPROVED EQUAL, APPLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



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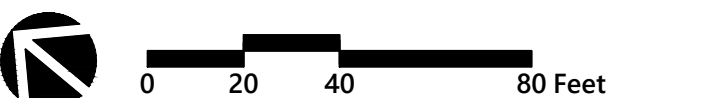
80 Glastonbury Boulevard
Glastonbury, CT 06033-4410
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Number	Date	Issued For
1	7/31/25	Response to Peer Review Comments

PLANTING PLAN

Date 06/23/2025 Scale 1" = 40' Proj. Number 25082.00	Drawing Number L101
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Buffer Zone Naturalization Notes:

- NO WORK SHALL OCCUR WITHIN THE WETLAND RESOURCE AREA PRIOR TO WALKING THE AREA WITH A CONSERVATION COMMISSION AGENT TO IDENTIFY INVASIVES TO BE REMOVED. WORK WITHIN THE WETLAND RESOURCE AREA SHALL BE LIMITED TO HAND REMOVAL OF WOODY AND HERBACEOUS INVASIVE PLANTS. USE OF CUT AND DAB OF HERBICIDE SHALL BE USED SPARINGLY.
- WORK WITHIN THE LIMIT OF GRADING AND WETLAND EDGE SHALL BE LIMITED TO HAND REMOVAL OF INVASIVES WITH SPARINGLY USE OF CUT AND DAB HERBICIDE. RESEEDING AND REPLANTING MAY OCCUR IN THIS AREA.
- ALL PROPOSED POTTED PLANTS AND SEED WITHIN THE BUFFER ZONE NATURALIZATION AREA SHALL BE NON-CULTIVAR NATIVES. PLANT SUBSTITUTIONS MUST BE REVIEWED AND APPROVED BY A QUALIFIED REPRESENTATIVE.

PLANT SCHEDULE (CURRENT PROJECT & POTENTIAL FUTURE PROJECT)

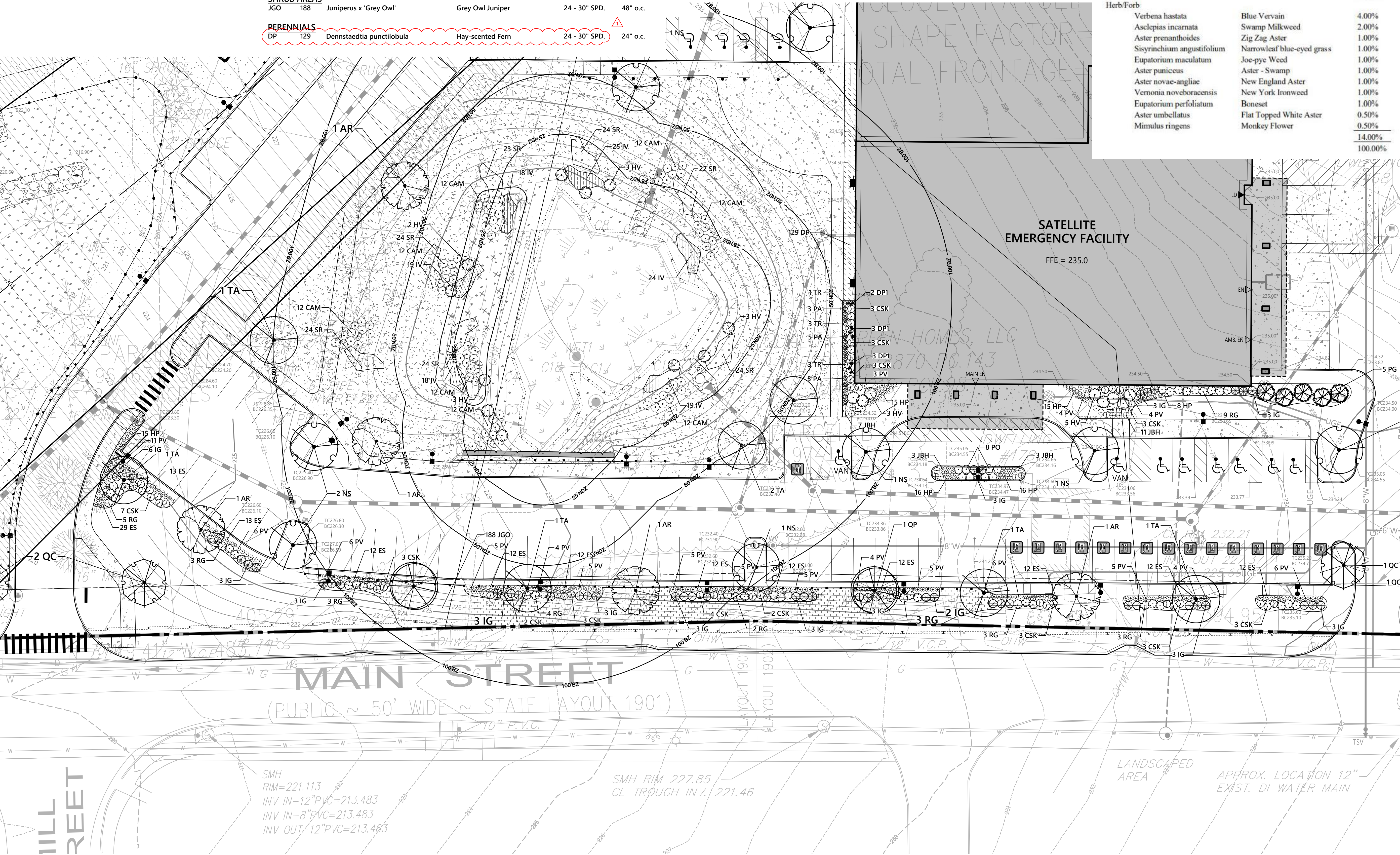
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
SHRUBS					
CSK	49	Cornus sericea 'Kelsey'	Kelsy Dwarf Dogwood	18 - 24" SPD	
HV	8	Hamamelis virginiana	Common Witch Hazel	36 - 40" HT.	
IG	50	Ilex glabra 'Shamrock'	Shamrock Highberry Holly (Male)	18 - 24" HT.	
JBH	24	Juniperus horizontalis 'Bar Harbor'	Bar Harbor Creeping Juniper	18 - 24" SPD	
PO	8	Physocarpus opulifolius 'Lemon Candy'	Lemon Candy Ninebark	18 - 24" HT.	
RG	42	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	18 - 24" HT.	
PERENNIALS AND GRASSES					
DPI	8	Dennstaedtia punctilobula	Hay-scented Fern	1 GAL	
ES	163	Eragrostis spectabilis	Purple Lovegrass	1 GAL	
HP	85	Hemerocallis x 'Pardon Me'	Pardon Me Daylily	1 GAL	
PV	93	Panicum virgatum 'Summer Sunrise'	Summer Sunrise Switch Grass	2 GAL	
PA	13	Polystichum acrostichoides	Christmas Fern	1 GAL	
TR	7	Tiarella cordifolia 'Running Tapestry'	Running Tapestry Foamflower	1 GAL	
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
SHRUB AREAS					
JGO	188	Juniperus x 'Grey Owl'	Grey Owl Juniper	24 - 30" SPD.	48" o.c.
PERENNIALS					
DP	129	Dennstaedtia punctilobula	Hay-scented Fern	24 - 30" SPD.	24" o.c.

BUFFER ZONE NATURALIZATION PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
SHRUBS					
CAM	96	Cornus amomum	Silky Dogwood	18 - 24" HT.	
HV	11	Hamamelis virginiana	Common Witch Hazel	36 - 40" HT.	
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
PERENNIALS					
IV	123	Iris versicolor	Blue Flag	1 GAL	24" o.c.
SR	165	Solidago rugosa	Rough Goldenrod	1 GAL	24" o.c.

Wet Meadow Mix

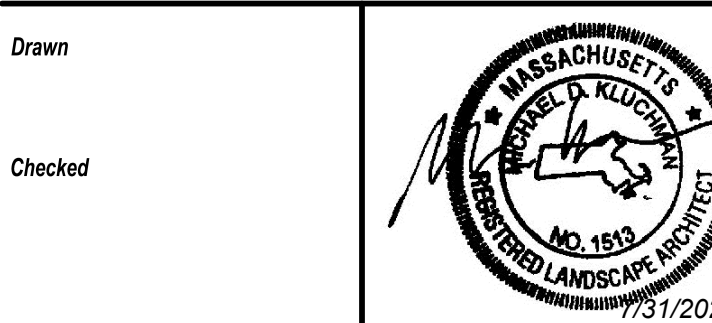
Botanical Name	Common Name	% PLS by Weight
Grass		
Carex vulpinoidea	Fox Sedge	26.00%
Elymus riparius	Riverbank Wild Rye	23.00%
Carex lurida	Shallow Sedge	17.00%
Carex lupulina	Hop Sedge	8.00%
Scirpus atrovirens	Green Bulrush	3.00%
Juncus effusus	Soft Rush	2.50%
Cinna arundinacea	Sweet Woodreed	2.00%
Carex comosa	Bearded Sedge	2.00%
Glyceria canadensis	Manna Grass	1.00%
Scirpus cyperinus	Woolgrass	1.00%
Juncus tenuis	Path Rush	0.50%
		86.00%
Herb/Forb		
Verbena hastata	Blue Vervain	4.00%
Asclepias incarnata	Swamp Milkweed	2.00%
Aster prenanthoides	Zig Zag Aster	1.00%
Sisyrinchium angustifolium	Narrowleaf blue-eyed grass	1.00%
Eupatorium maculatum	Joe-pye Weed	1.00%
Aster puniceus	Aster - Swamp	1.00%
Aster novae-angliae	New England Aster	1.00%
Vernonia noveboracensis	New York Ironweed	1.00%
Eupatorium perfoliatum	Boneset	1.00%
Aster umbellatus	Flat Topped White Aster	0.50%
Mimulus ringens	Monkey Flower	0.50%
		14.00%
		100.00%



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Number	Date	Issued For
1	7/31/25	Response to Peer Review Comments

PLANTING ENLARGEMENT
PLAN

Date 06/23/2025 Scale ##### Proj. Number 25082.00	Drawing Number L102
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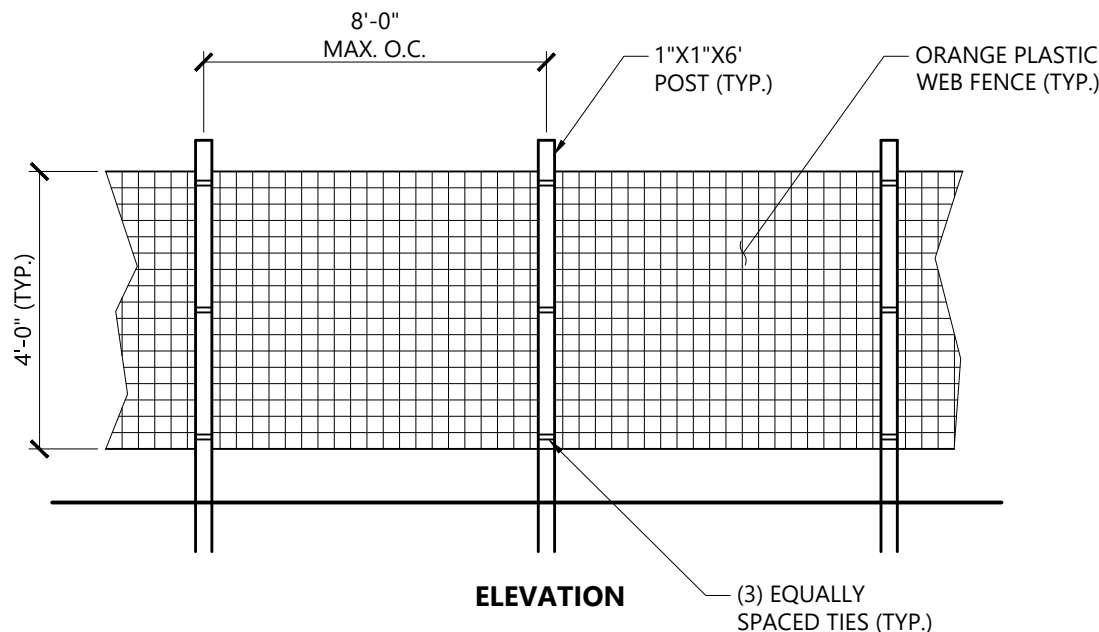
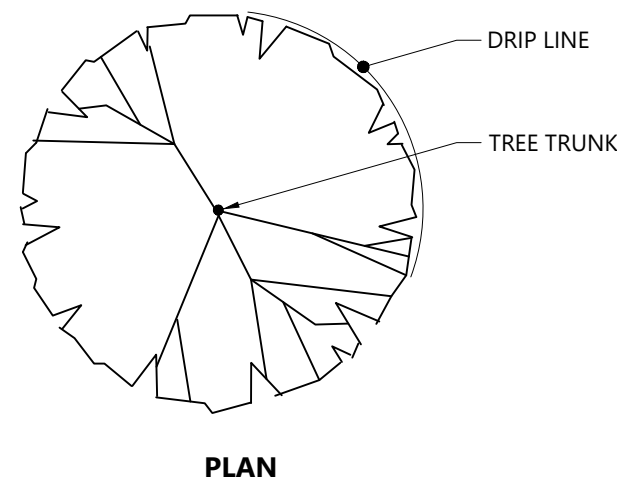
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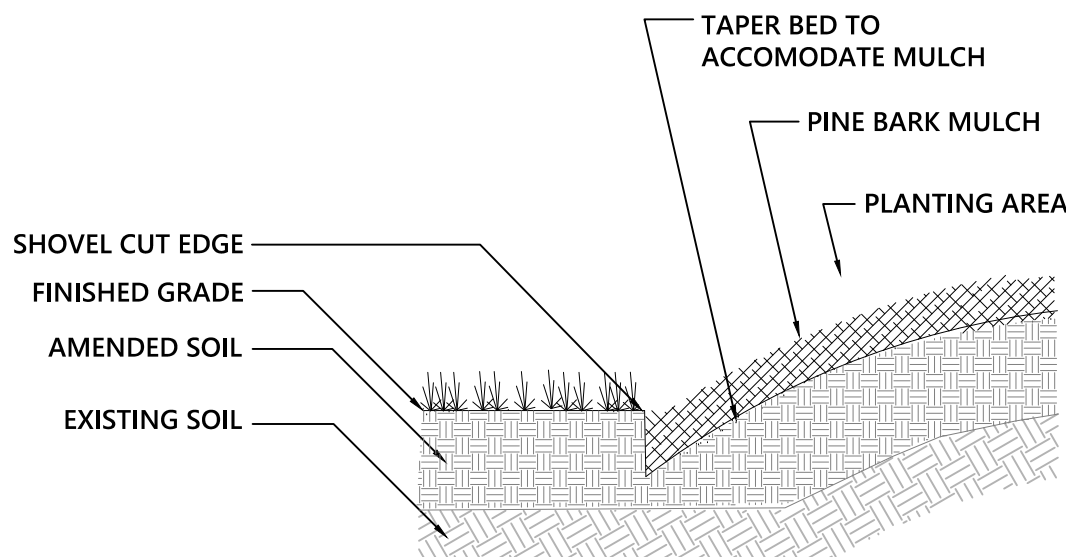
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NOTES

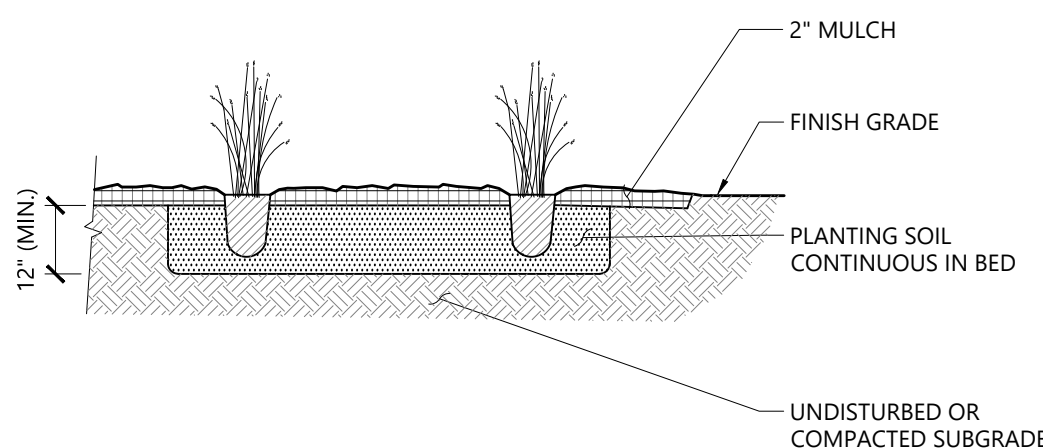
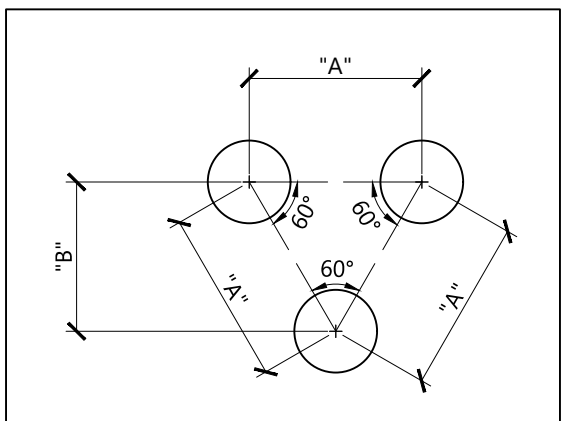
1. INSTALL TREE PROTECTION FENCE AT THE DRIP LINE OF EXISTING TREES TO REMAIN.

Tree Protection Fence 1/16
N.T.S. Source: VHB LD_610

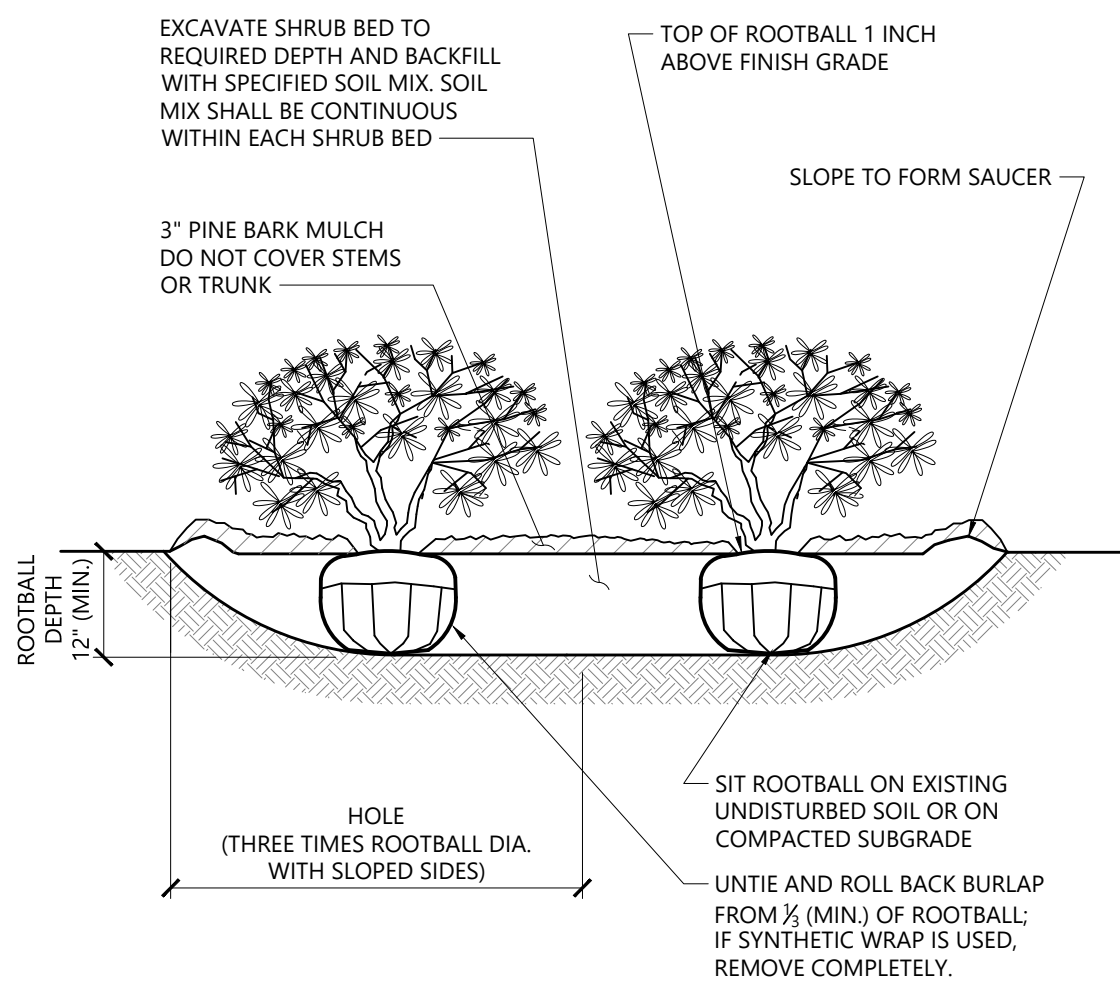


Shovel Cut Edging 9/23
N.T.S. Source: VHB LD_620

PLANT SPACING	
PLANT SPACING("A")	ROW SPACING("B")
6 IN. O.C.	5 IN. O.C.
8 IN. O.C.	7 IN. O.C.
10 IN. O.C.	8 1/2 IN. O.C.
12 IN. O.C.	10 1/2 IN. O.C.
15 IN. O.C.	13 IN. O.C.
18 IN. O.C.	16 IN. O.C.
24 IN. O.C.	21 IN. O.C.
30 IN. O.C.	26 IN. O.C.
36 IN. O.C.	30 IN. O.C.
48 IN. O.C.	42 IN. O.C.
54 IN. O.C.	48 IN. O.C.
60 IN. O.C.	54 IN. O.C.



Perennial and Ornamental Grass Planting 1/16
N.T.S. Source: VHB LD_618

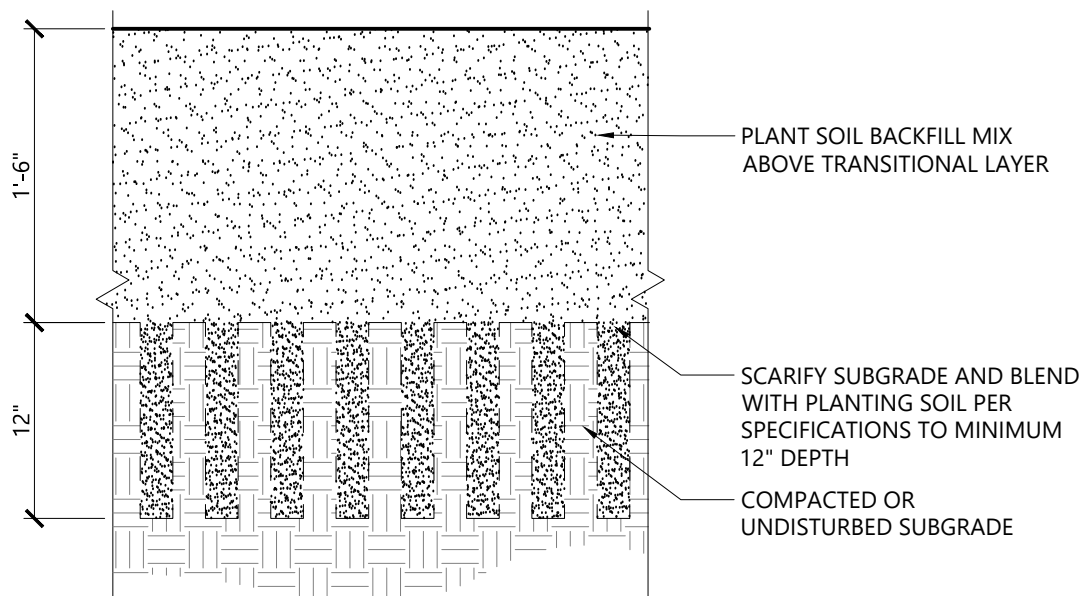


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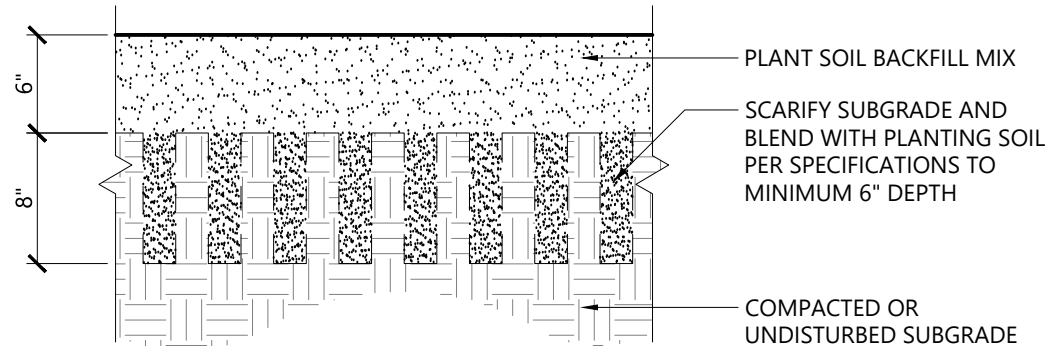
1. LOOSEN ROOTS AT THE OUTER EDGE OF ROOTBALL OF CONTAINER GROWN SHRUBS.

Shrub Bed Planting 1/16
N.T.S. Source: VHB LD_601

B

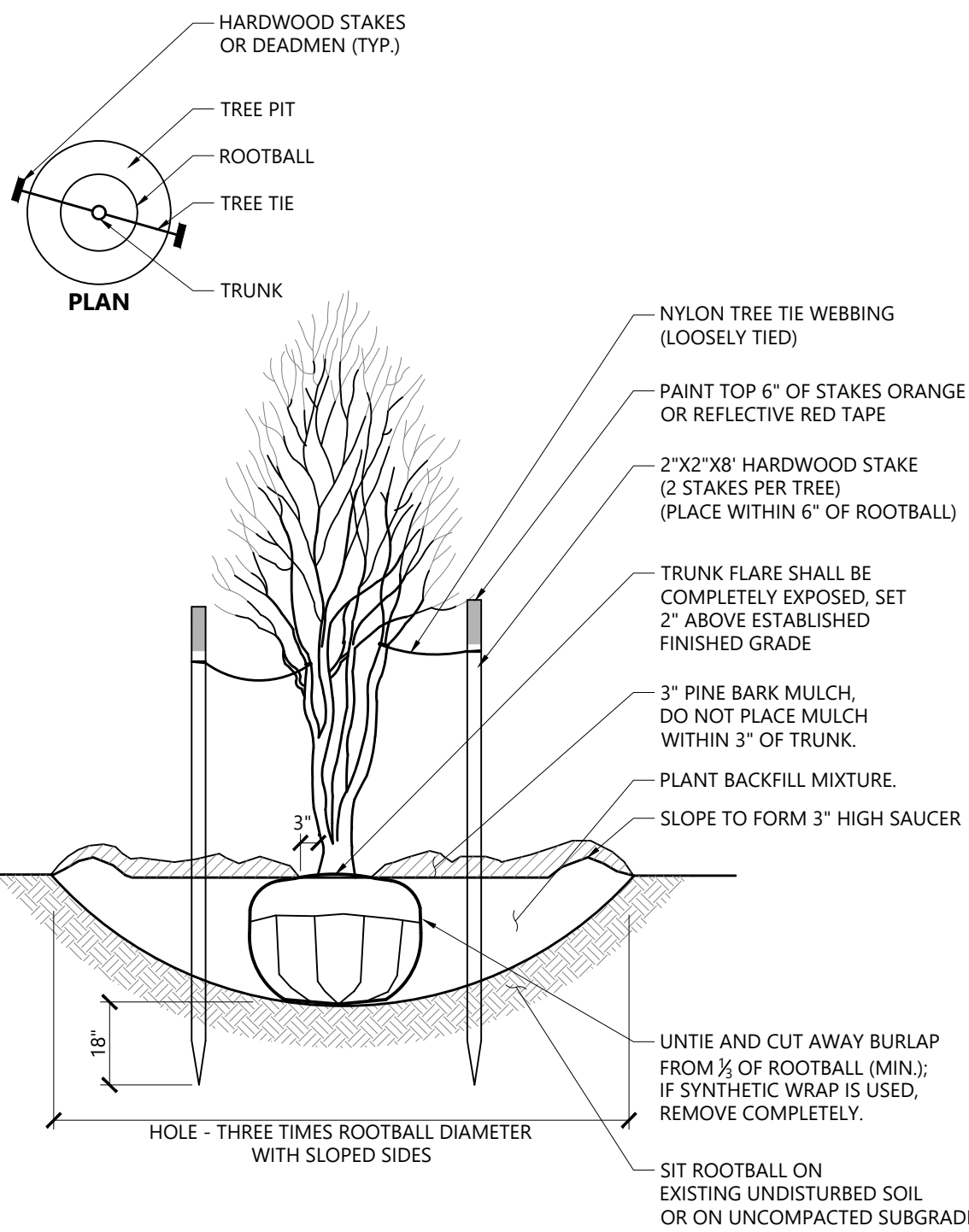


SOIL PREPARATION
GROUNDCOVER AND SHRUBS

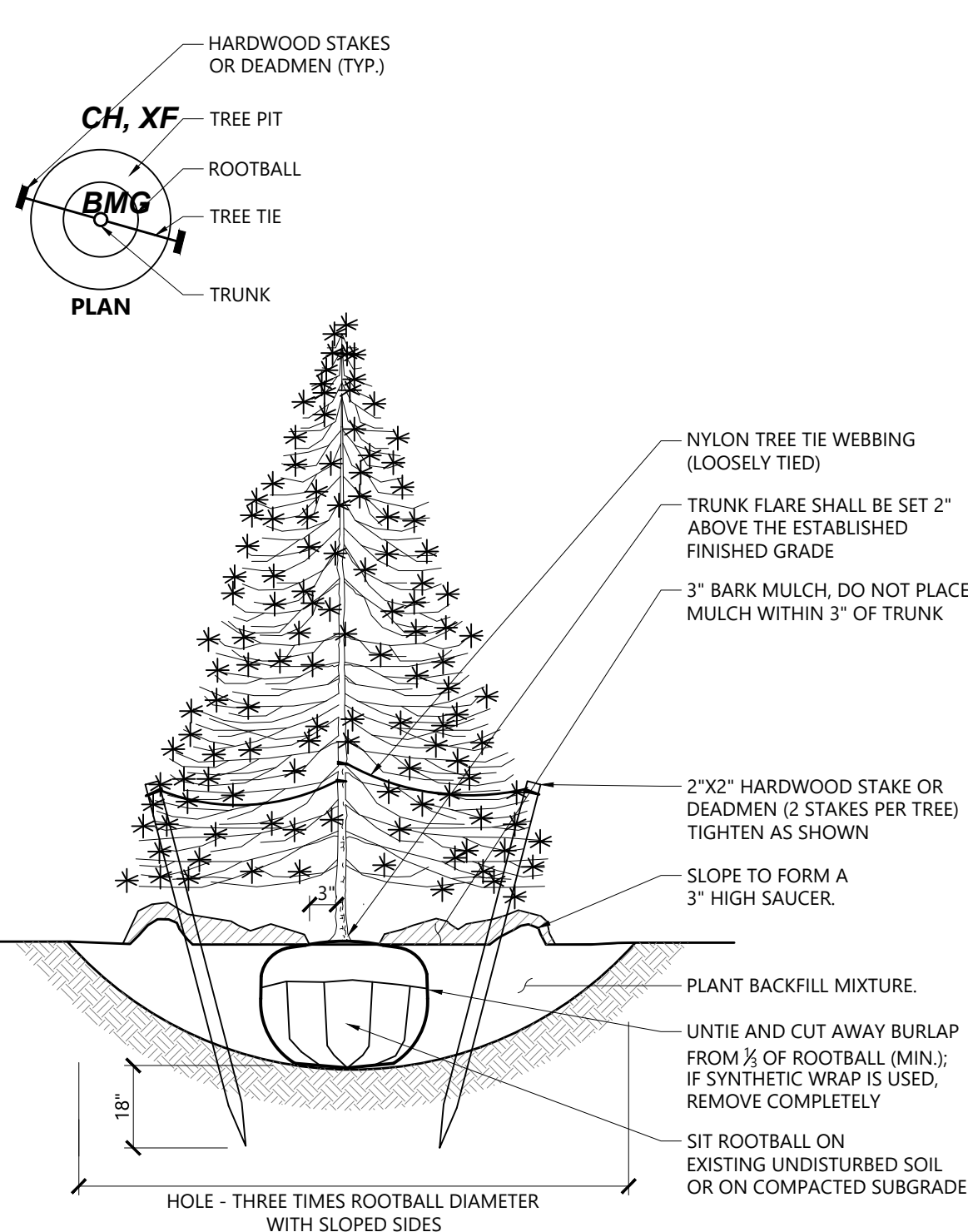


SOIL PREPARATION
AT LAWN

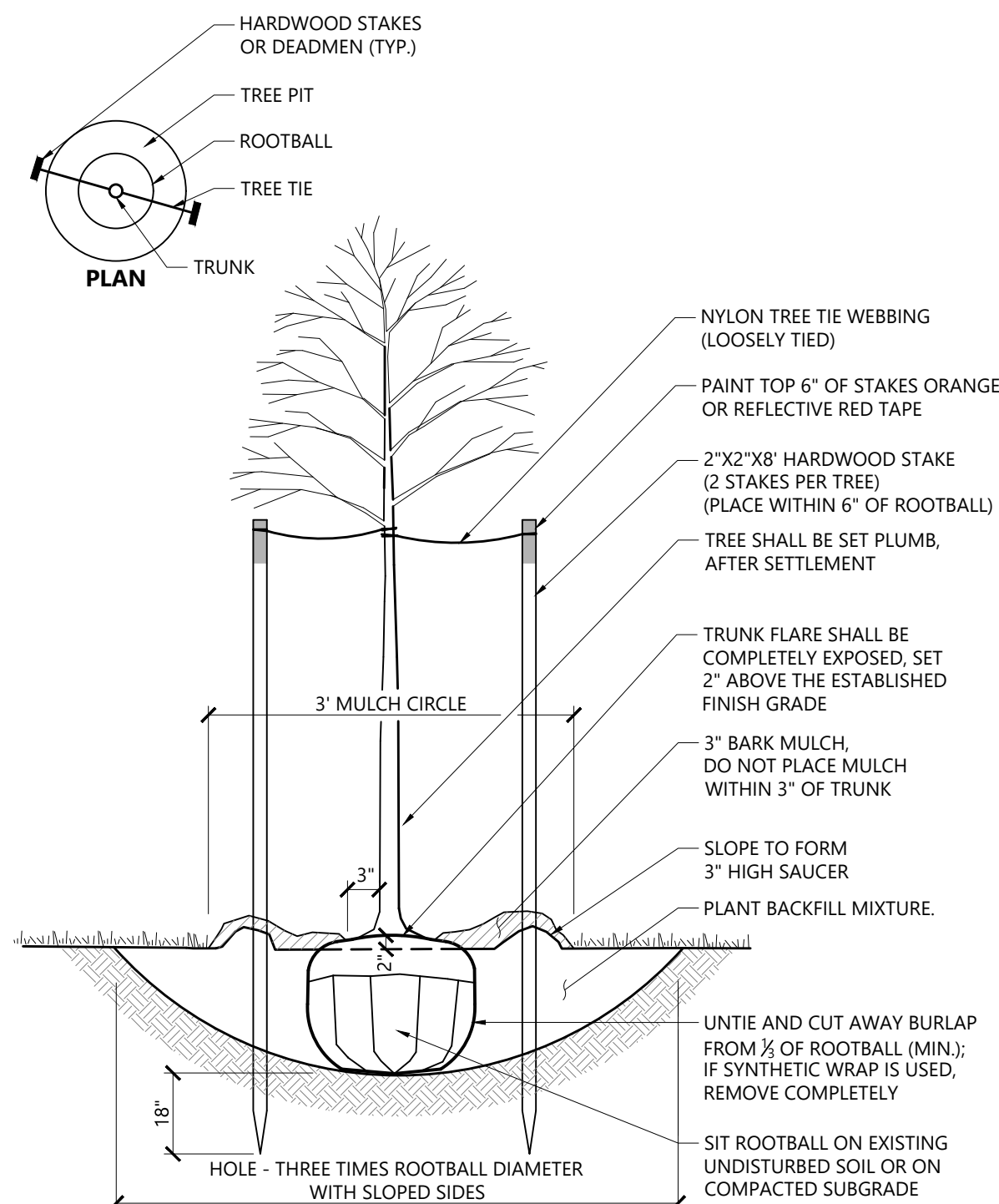
Soil Preparation 3/25
N.T.S. Source: VHB LD_



Multistem Tree Planting 9/21
N.T.S. Source: VHB LD_606



Evergreen Tree Planting 9/21
N.T.S. Source: VHB LD_604



Tree Planting (For Trees Under 4" Caliper) 9/21
N.T.S. Source: VHB LD_602

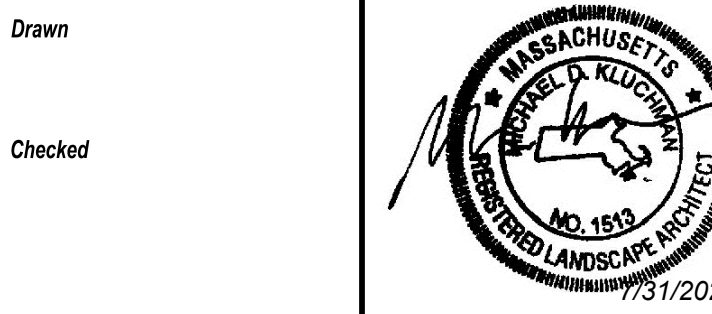
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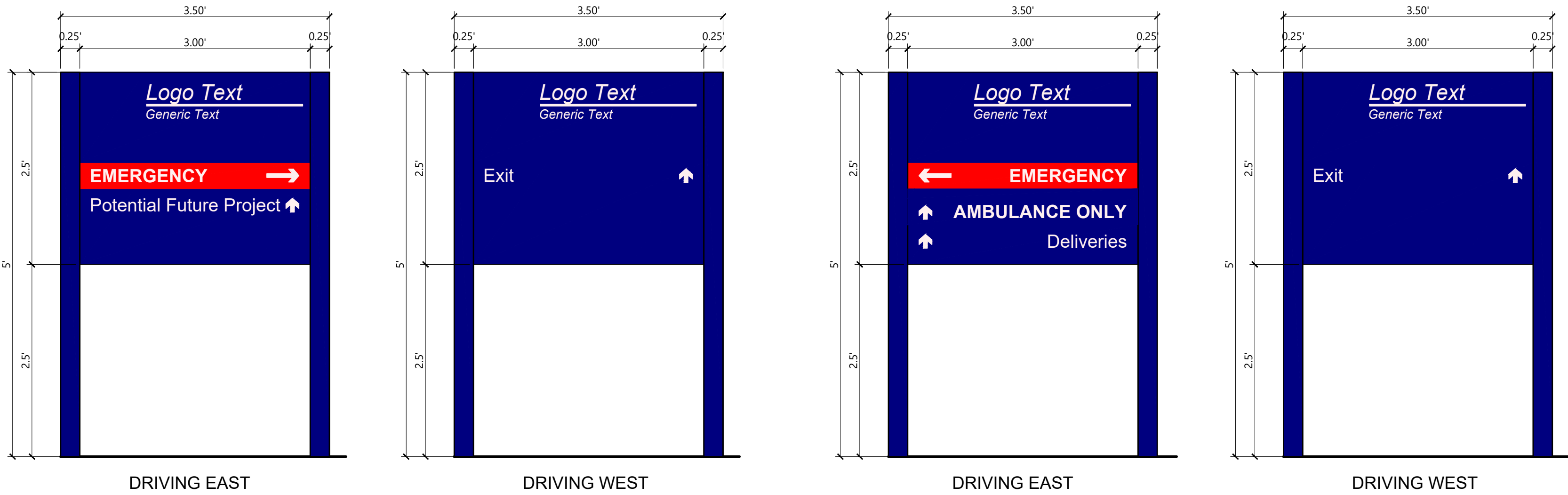
PLANTING DETAILS

Date
06/23/2025
Scale
N.T.S.
Proj. Number
25082.00

Drawing Number

L201

A



Wayfinding Signage (Primary Sign A)

N.T.S. Source: VHB 3/20 LD_610A

Wayfinding Signage (Primary Sign B)

N.T.S. Source: VHB 3/20 LD_610A

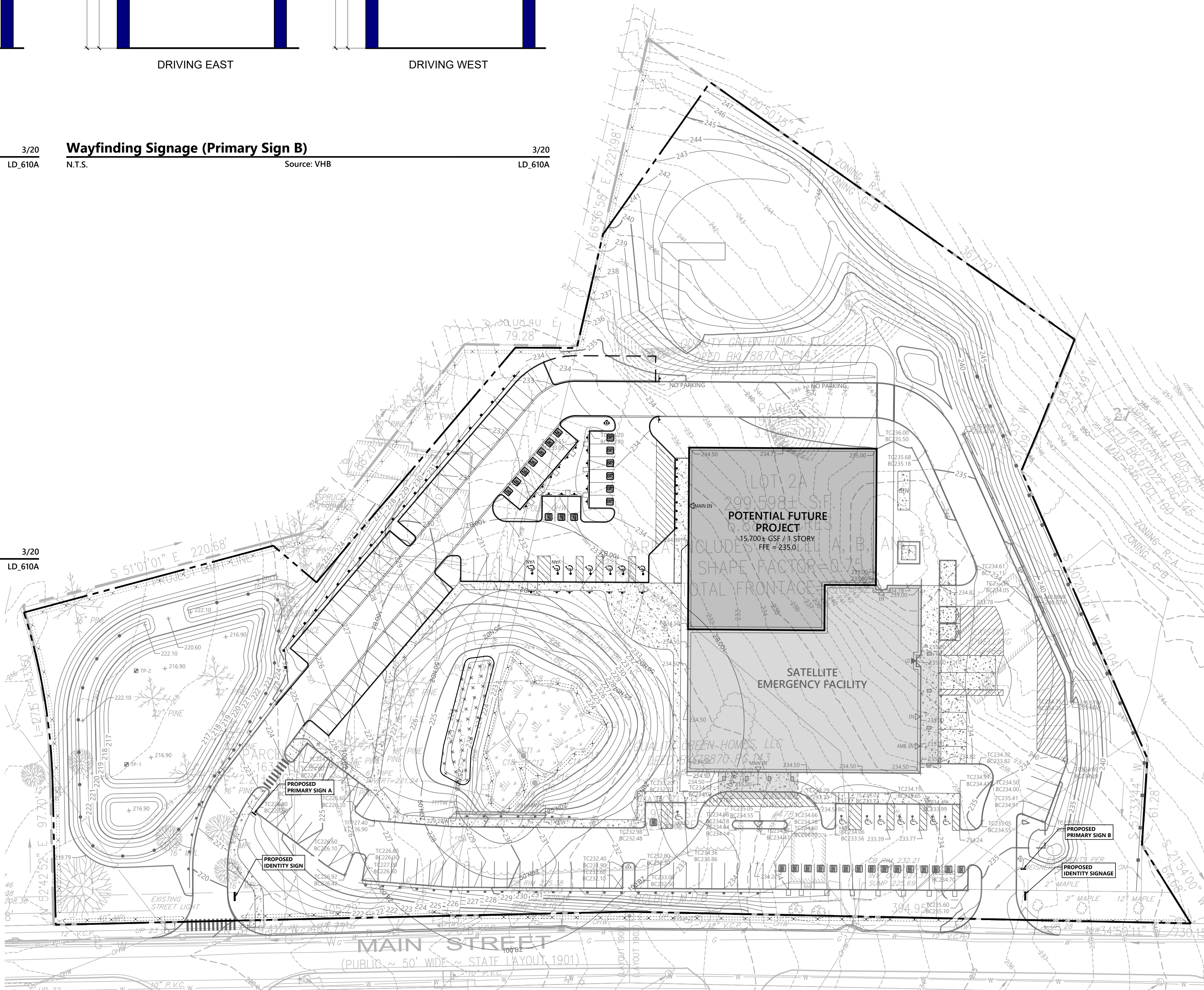
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Identity Signage

N.T.S. Source: VHB 3/20 LD_610A

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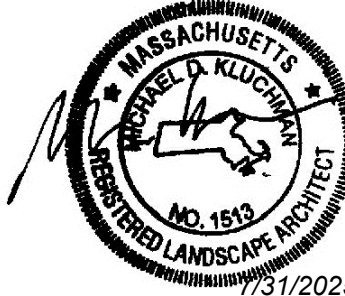
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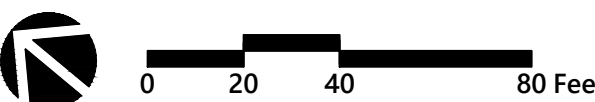
Drawn

Checked



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Number	Date	Issued For

SIGNAGE PLAN

Date
06/23/2025
Scale
1" = 40'
Proj. Number
25082.00

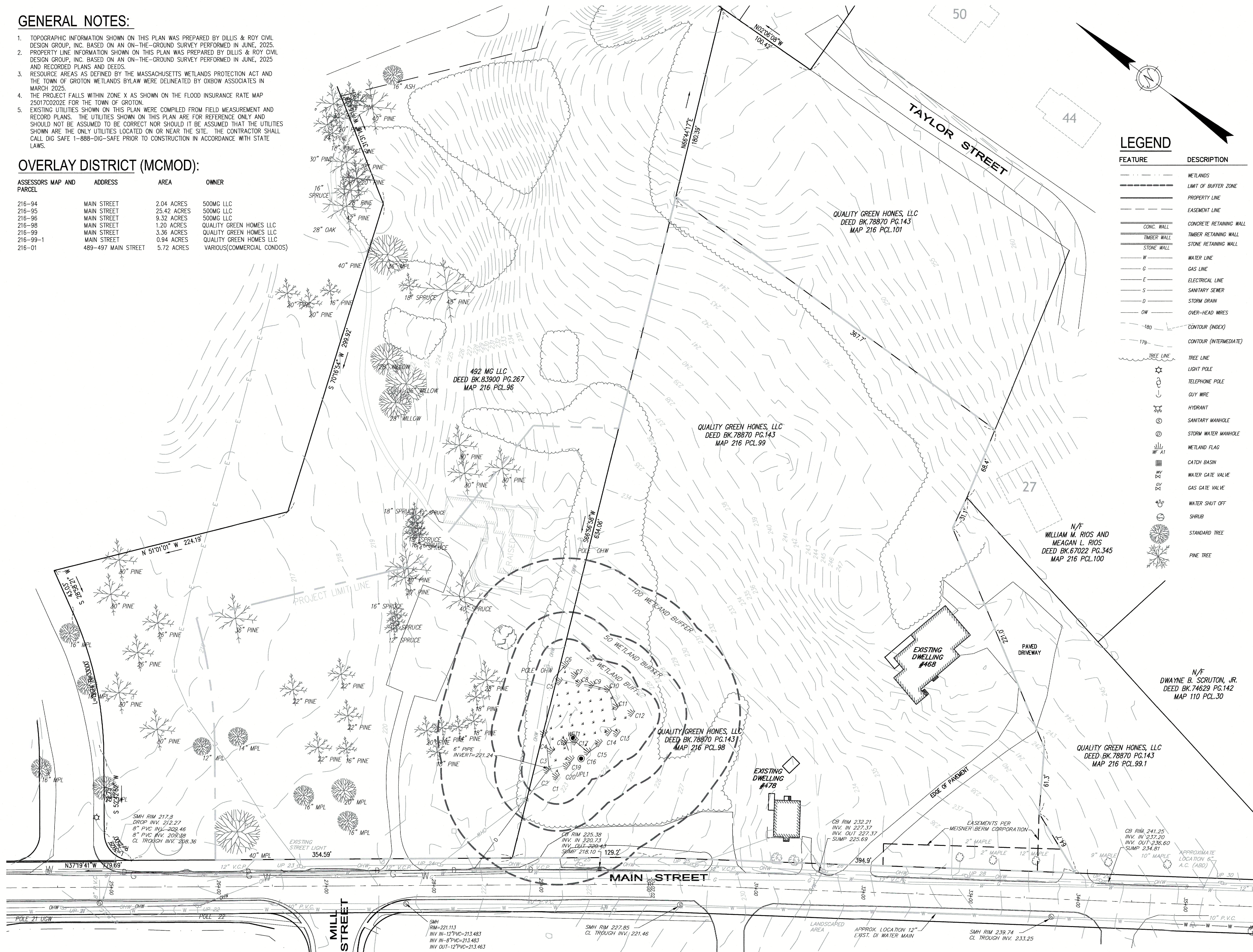
Drawing Number

L301
































1. TOPOGRAPHIC INFORMATION SHOWN ON THIS PLAN WAS PREPARED BY DILLIS & ROY CIVIL DESIGN GROUP, INC. BASED ON AN ON-THE-GROUND SURVEY PERFORMED IN JUNE, 2025.
2. PROPERTY LINE INFORMATION SHOWN ON THIS PLAN WAS PREPARED BY DILLIS & ROY CIVIL DESIGN GROUP, INC. BASED ON AN ON-THE-GROUND SURVEY PERFORMED IN JUNE, 2025 AND RECORDED PLANS AND DEEDS.
3. RESCUE AREA IS DEFINED BY THE MASSACHUSETTS WETLANDS PROTECTION ACT AND THE TOWN OF GROTON WETLANDS BYLAW WERE DELINEATED BY OXBOW ASSOCIATES IN MARCH, 2025.
4. THE PROJECT FALLS WITHIN ZONE X AS SHOWN ON THE FLOOD INSURANCE RATE MAP 2501700202E FOR THE TOWN OF GROTON.
5. EXISTING UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY, AND SHOULD NOT BE ASSUMED TO BE CORRECT NOR SHOULD IT BE ASSUMED THAT THE UTILITIES SHOWN ARE THE ONLY UTILITIES LOCATED ON OR NEAR THE SITE. THE CONTRACTOR SHALL CALL DIG SAFE 1-888-DIG-SAFE PRIOR TO CONSTRUCTION IN ACCORDANCE WITH STATE LAWS.

OVERLAY DISTRICT (MCMOD):

ASSESSORS MAP AND PARCEL	ADDRESS	AREA	OWNER
216-94	MAIN STREET	2.04 ACRES	500MG LLC
216-95	MAIN STREET	25.42 ACRES	500MG LLC
216-96	MAIN STREET	9.32 ACRES	500MG LLC
216-98	MAIN STREET	1.20 ACRES	QUALITY GREEN HOMES LLC
216-99	MAIN STREET	3.16 ACRES	QUALITY GREEN HOMES LLC
216-99-1	MAIN STREET	0.94 ACRES	QUALITY GREEN HOMES LLC
216-01	489-497 MAIN STREET	5.72 ACRES	VARIOUS(COMMERCIAL CONDOS)



LEGEND

FEATURE	DESCRIPTION
	WETLANDS
	LIMIT OF BUFFER ZONE
	PROPERTY LINE
	EASEMENT LINE
	CONCRETE RETAINING WALL
	TIMBER RETAINING WALL
	STONE RETAINING WALL
	STONE WALL
	WATER LINE
	GAS LINE
	ELECTRICAL LINE
	SANITARY SEWER
	STORM DRAIN
	OVER-HEAD WIRES
	CONTOUR (INDEX)
	CONTOUR (INTERMEDIATE)
	TREE LINE
	LIGHT POLE
	TELEPHONE POLE
	GUY WIRE
	HYDRANT
	SANITARY MANHOLE
	STORM WATER MANHOLE
	WETLAND FLAG
	CATCH BASIN
	WATER GATE VALVE
	GAS GATE VALVE
	WATER SHUT OFF
	SHRUB
	STANDARD TREE
	PINE TREE



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Drawn

JPG

Checked

MWB

W. BOUFFARD
NO. 40760



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SATELLITE
EMERGENCY
FACILITY**

**490 Main Street
Groton, MA 01450**



Number	Date	Issued For
		<div style="text-align: center;"> <p>PROGRESS PRINT NOT FOR CONSTRUCTION</p> </div>

Date
06/18/2025

Scale
1"=40'

Proj. Number
6842-V

Drawing Number

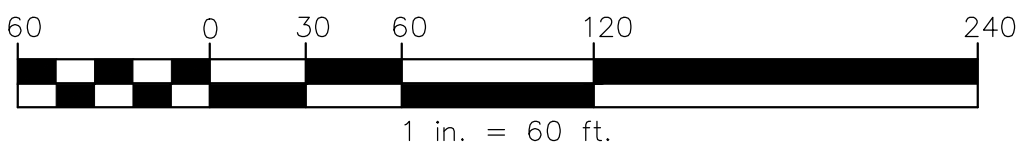
SV101

RESERVED FOR REGISTRY USE

I CERTIFY THAT THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTRY OF DEEDS.

DATE:

- THE INTENT OF THIS SURVEY AND PLAN IS TO CREATE LOT 2A, LOT 3A, PARCELS A, B, AND C. LOT 2A IS TO INCLUDE PARCEL A, B, AND C.
- ALL BOOK AND PAGE NUMBERS REFER TO THE MIDDLESEX SOUTH REGISTRY OF DEEDS.
- THE ASSESSORS MAP AND LOT NUMBERS ARE BASED ON THE TOWN OF GROTON TAX RECORDS AND ARE SUBJECT TO CHANGE.
- RESEARCH WAS COLLECTED FROM THE TOWN OF GROTON ASSESSORS RECORDS, AND THE WORCESTER NORTH REGISTRY OF DEEDS.
- CERTAIN DATA HEREON MAY VARY FROM RECORDED DATA DUE TO DIFFERENCES IN DECLINATION, ORIENTATION, AND METHODS OF MEASUREMENT.
- THIS SURVEY IS NOT A CERTIFICATION TO OWNERSHIP OR TITLE OF LANDS SHOWN. OWNERSHIP AND ENCUMBRANCES ARE MATTERS OF TITLE EXAMINATION NOT OF A BOUNDARY SURVEY. OWNERSHIP OF ADJOINING PROPERTIES IS ACCORDING TO ASSESSOR'S RECORDS. THIS PLAN MAY OR MAY NOT INDICATE ALL ENCUMBRANCES EXPRESSED, IMPLIED OR PRESCRIPTIVE.
- ANY USE OF THIS PLAN AND / OR ACCOMPANYING DESCRIPTIONS SHOULD BE DONE WITH LEGAL COUNSEL, TO BE CERTAIN THAT TITLES ARE CLEAR, THAT INFORMATION IS CURRENT, AND THAT ANY NECESSARY CERTIFICATES ARE IN PLACE FOR A PARTICULAR CONVEYANCE, OR OTHER USES.
- SEE CONFIRMATORY PLAN BY MEISNER BERM CORPORATION TO BE RECORDED.
- THE FIELD SURVEY WAS PERFORMED JUNE, 2025.



OWNED BY:
492 MG LLC
6 LIBERTY WAY, SUITE 203
WESTFORD, MA

QUALITY GREEN HOMES, LLC
142 LITTLETON ROAD
WESTFORD, MA

DEED REFERENCES:
BK.83900 PG.267
BK.78870 PG.143

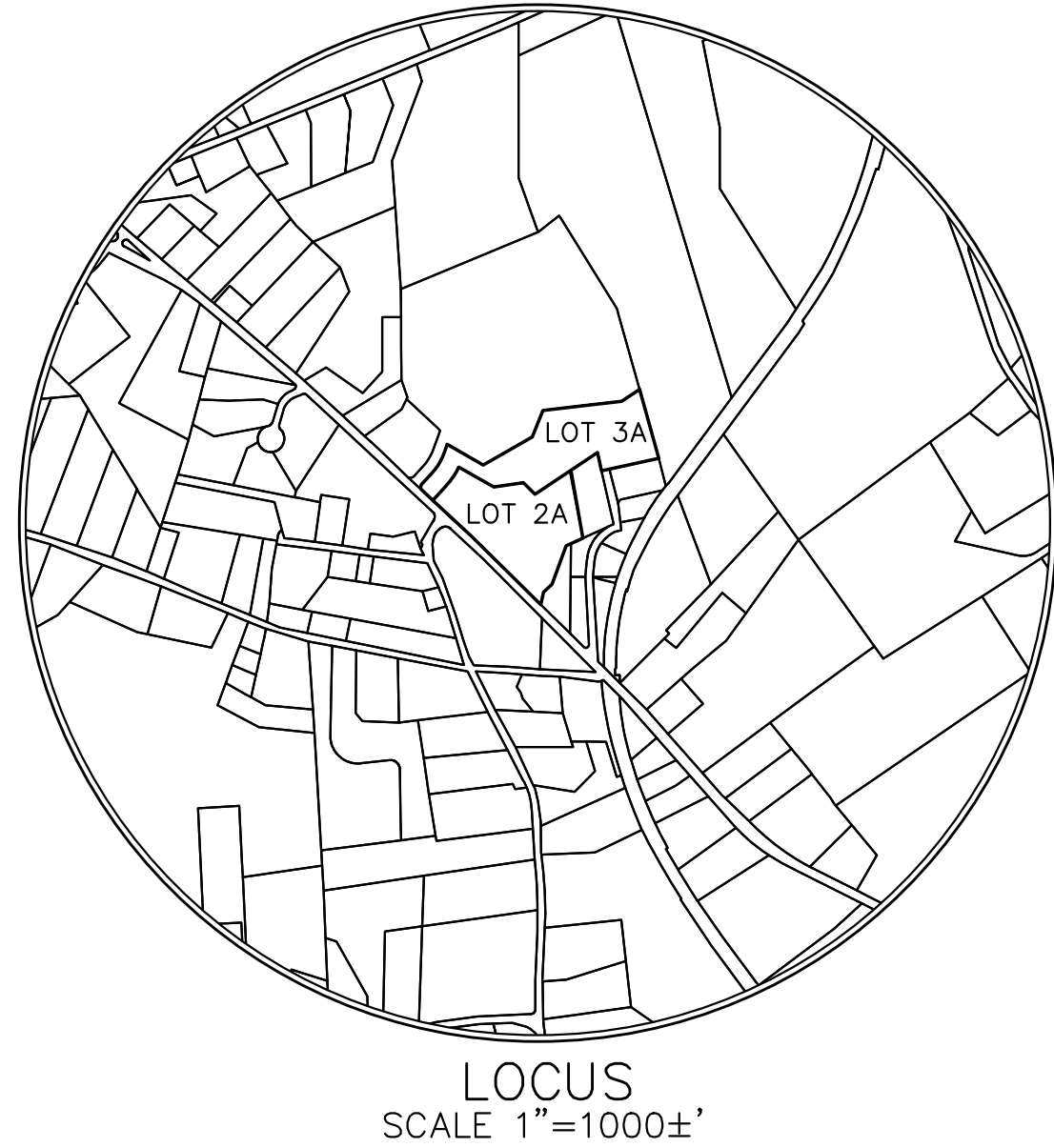
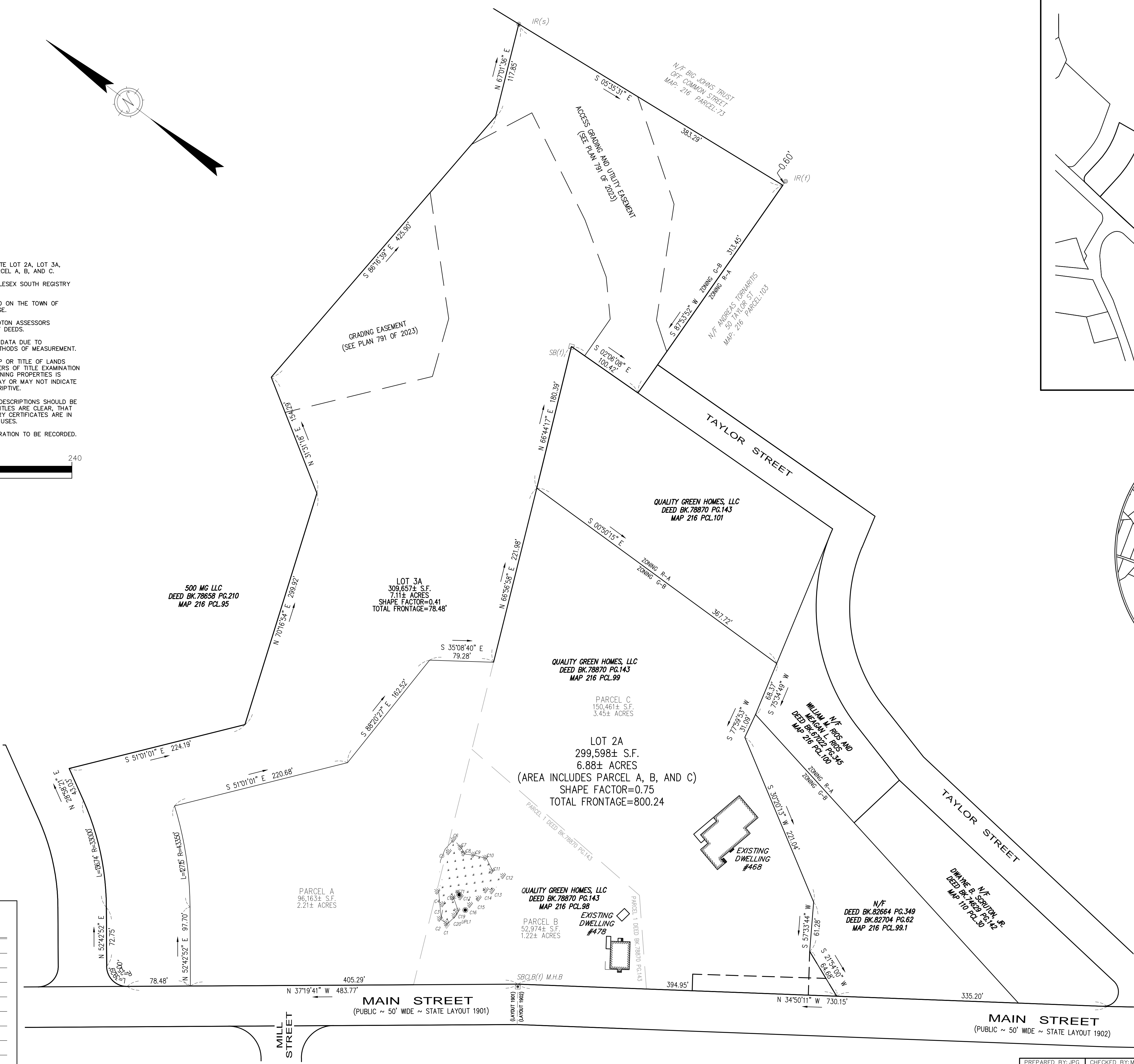
ASSESSORS MAP:216
PCL.96,98, AND 99

ZONING DISTRICT: G-B/R-A/MC/MOD

THIS ENDORSEMENT BY THE PLANNING BOARD DOES NOT CONSTITUTE A FINDING THAT ZONING REQUIREMENTS HAVE BEEN MET.

APPROVAL NOT REQUIRED UNDER THE SUBDIVISION CONTROL LAW GROTON PLANNING BOARD

DATE:



PRELIMINARY PLAN

PLAN OF LAND IN GROTON, MASSACHUSETTS

DATE: JUNE 19, 2025	SCALE: 1 in. = 60 ft.
PREPARED FOR: 492 MG LLC QUALITY GREENS HOMES LLC	JOB NO. 6842-V DWG. NO. 6842-V-ANR

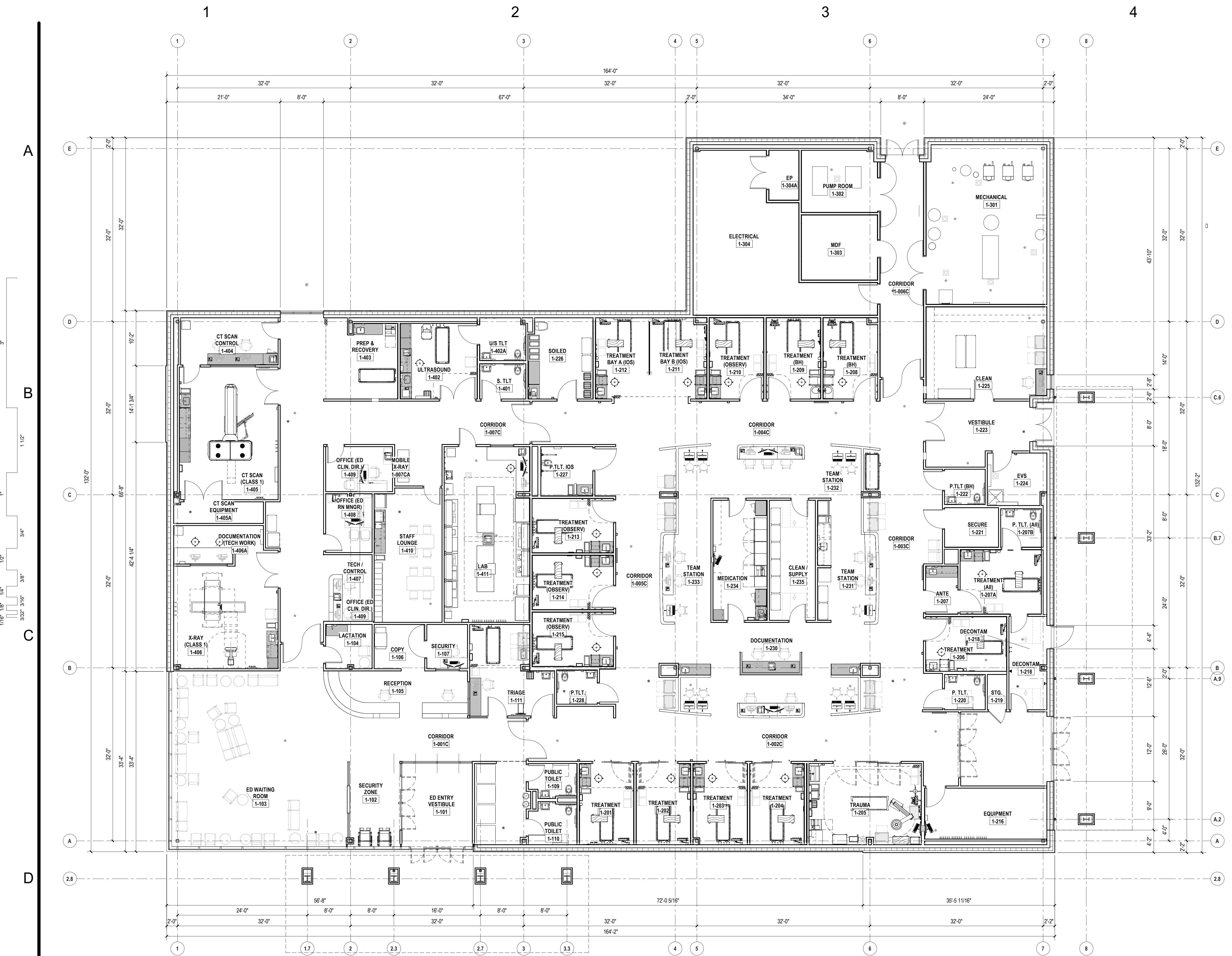
DILLIS & ROY
CIVIL DESIGN GROUP

CIVIL ENGINEERS LAND SURVEYORS WETLAND CONSULTANTS

CORPORATE OFFICE: 1 MAIN STREET, SUITE 1 LUNENBURG, MA 01462	978-779-6091 www.dillisandroy.com	CONCORD OFFICE: 100 MAIN ST., SUITE 310 CONCORD, MA 01742
--	--------------------------------------	---

PREPARED BY:JPG | CHECKED BY:MMB

SHEET 1 OF 1



2E FIRST FLOOR PLAN
1/8" = 1'-0"



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EH, EA, CF
Checked

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Groton, MA 01450**

KEYPLAN

Number	Date	Issued For

FIRST FLOOR PLAN - PZ

Date
06/23/2025
Scale
1/8" = 1'-0"
Proj. Number
25082.00

Drawing Number
A101-PZ

Autodesk Docs/25082 - Nashoba Stand-Alone Emergency Facility/A_25082.00_Nashoba-Freestanding-ED_R23.rvt 6/18/2025 11:20:50 AM



1D FIRST FLOOR PLAN WITH POTENTIAL FUTURE PROJECT
1/8" = 1'-0"



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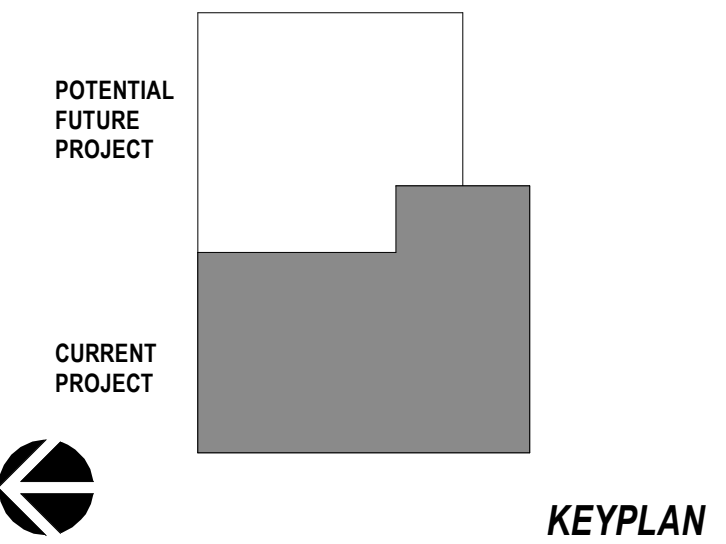
EH

Checked



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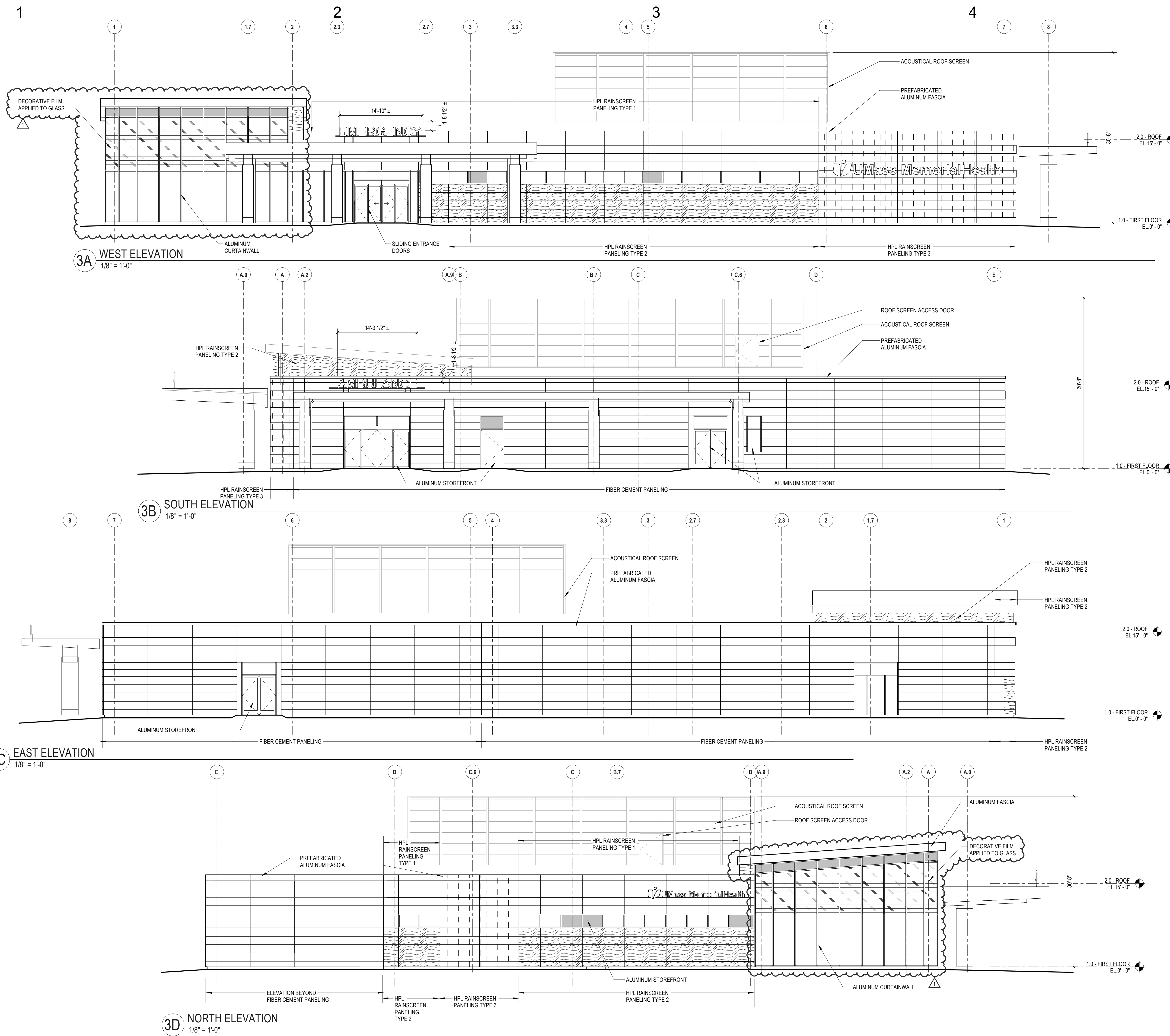
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Groton, MA 01450**



Number	Date	Issued For

**FIRST FLOOR PLAN WITH
POTENTIAL FUTURE
PROJECT**

Date 06/23/2025	Drawing Number A102-PZ
Scale 1/8" = 1'-0"	
Proj. Number 25082.00	



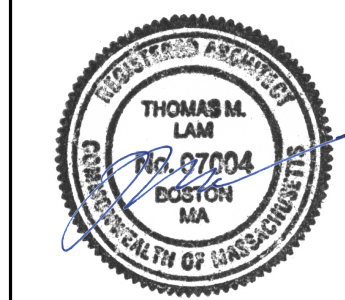
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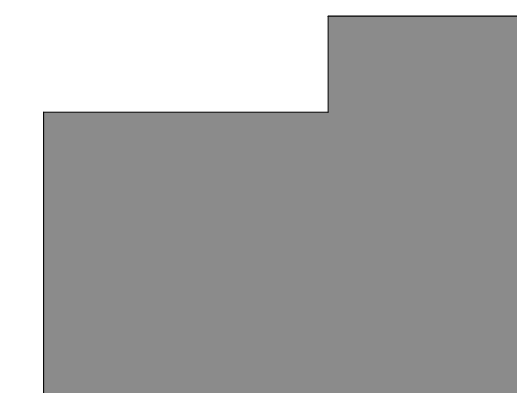
Drawn
EA, CF, ML

Checked



NASHOBA SATELLITE EMERGENCY FACILITY

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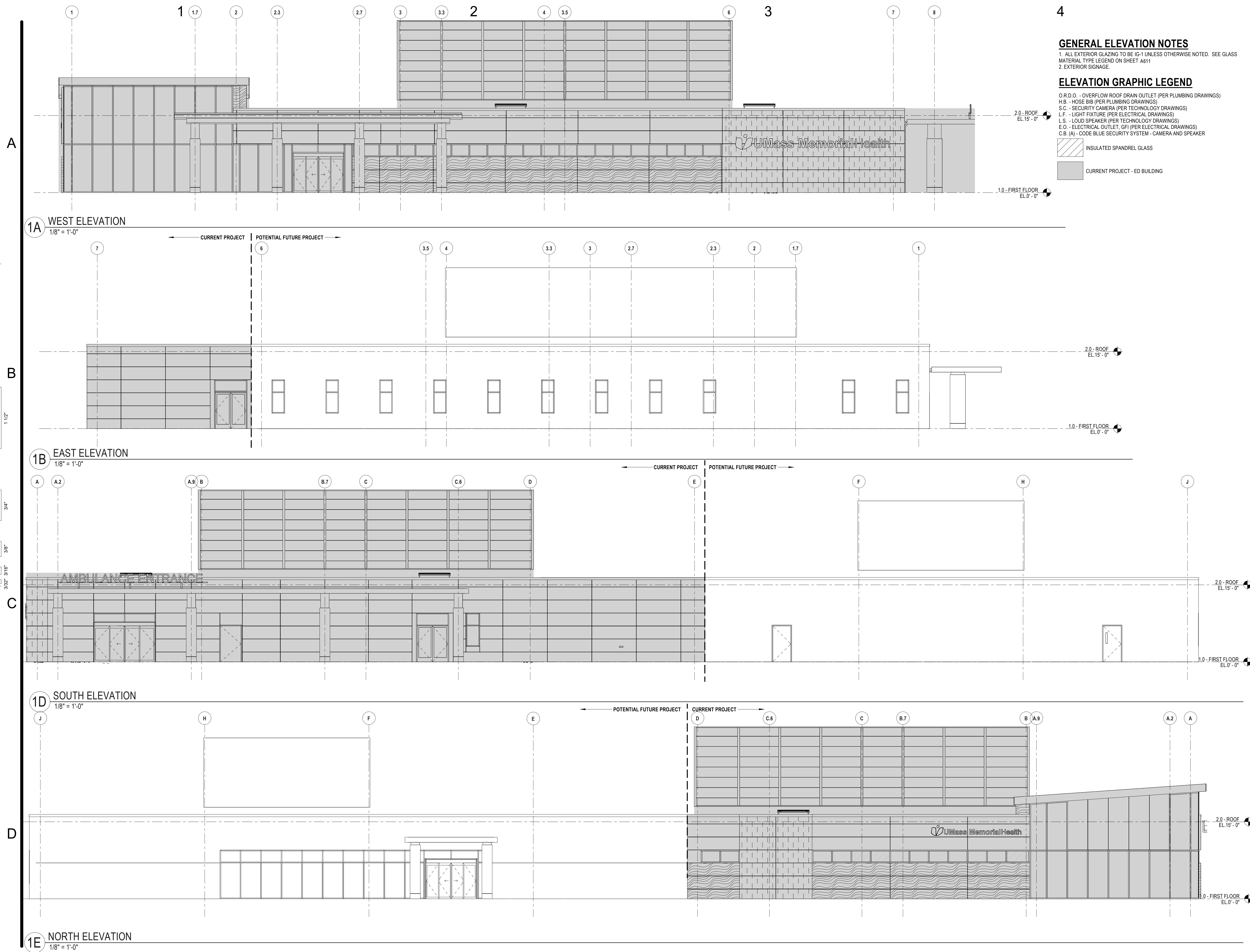
KEYPLAN

Number	Date	Issued For
1	7/31/2025	P&Z Resubmission

EXTERIOR ELEVATIONS-PZ

Date
06/23/2025
Scale
1/8" = 1'-0"
Proj. Number
25082.00

Drawing Number
A301-PZ



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MPL
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POTENTIAL
FUTURE
PROJECT

CURRENT
PROJECT

KEYPLAN

Number	Date	Issued For
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**EXTERIOR ELEVATIONS - PZ
WITH POTENTIAL FUTURE
PROJECT**

Date 06/23/2025	Drawing Number A302-PZ
Scale 1/8" = 1'-0"	
Proj. Number 25082.00	

A

B

C

D

LIGHTING FIXTURE SCHEDULE			
TYPE	FIXTURE IMAGE	BASIS OF DESIGN MANUFACTURER / MODEL	FIXTURE DESCRIPTION - BASIS OF DESIGN
SW1		HUBELL GEOPAK SERIES 1	TRAPEZOIDAL EGRESS WALL PACK.
SA3 SA5		KIM LIGHTING OURO	POLE MOUNTED POST-TOP FIXTURE FOR WALKWAYS. "SA3"=TYPE 3. "SA5"=TYPE 5 DISTRIBUTION.
SL3 SL3BC SL5		KIM LIGHTING OURO	POLE MOUNTED POST-TOP FIXTURE FOR PARKING AREAS. "SL3"=TYPE 3. "SL3BC" = TYPE 3 WITH BACKLIGHT COVER. "SL5"=TYPE 5 DISTRIBUTION.
SB		KIM LIGHTING PAZR	BOLLARD FIXTURE FOR WALKWAY AREAS.
D4S		PRESCOLITE LTR-4RD	LED 4" ROUND DOWNLIGHT FOR CANOPIES, RATED FOR OUTDOOR APPLICATIONS.
H1		L-810	OBSTRUCTION RED LED.
H2		FLASH TECHNOLOGY MKR370	DOUBLE OBSTRUCTION RED LED. MOUNTED ON MECHANICAL SCREEN
H3		FLIGHT LIGHT INC HL-892L	SEMI-FLUSH PERIMETER INSET LIGHT.
H4		POINT LIGHTING PSF LED FLOODLIGHT	FLOOD LIGHT FOR HELIPAD AREA.

LIGHTING OPERATION:
Site lighting will be controlled via a combination of time clock scheduling and photocell. Working with the owner during installation a time schedule will be set to automatically turn exterior lighting on and off. The photocell will automatically turn the lights on if the exterior becomes dark. The photocell function will override the time clock and force lights on.

The controls allow adaptability to change scheduling if desired in the future.

Lighting associated with the heliport and heliport walkway will only be on during emergency situations that require the use of the heliport.



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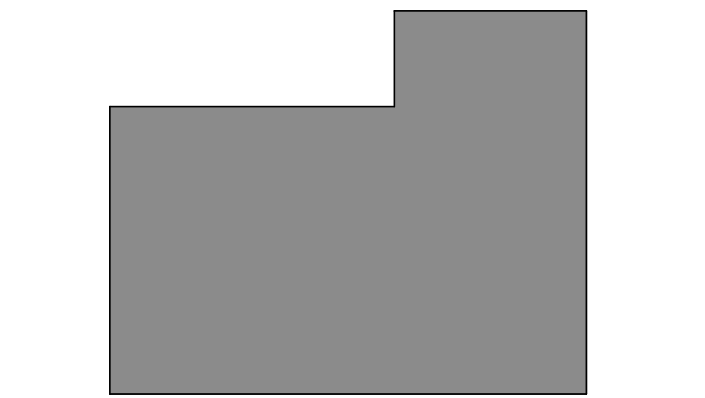
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Checked	KSK



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KEYPLAN

Number	Date	Issued For

SITE LIGHTING
PHOTOMETRIC
CALCULATION

Date	08/01/2025	Drawing Number	SL-1
Scale	NTS		
Proj. Number	25082.00		