

NOTICE OF INTENT PLAN

VMD INDUSTRIES V LLC

Monarch Drive in Littleton, Massachusetts

Prepared for VMD Industrial V LLC

Littleton Planning Board	
DATE OF APPROVAL:	
DATE OF ENDORSEMENT:	

APPLICANT:
VMD INDUSTRIES V LLC
733 TURNPIKE STREET, ROUTE 114
NORTH ANDOVER, MA 01845

OWNERS:

MAP 10 PARCELS 16 (LOT 1)
CDK REALTY VENTURE ONE, LLC
410 BOSTON POST ROAD, SUITE 28
SUDSBURY, MA 01776-3034

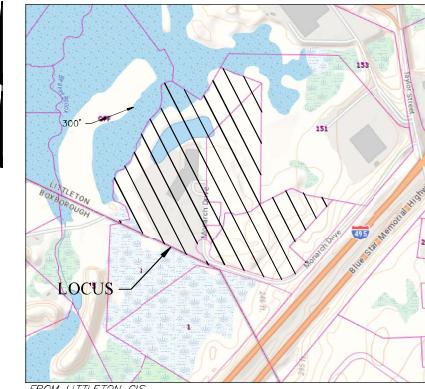
MAP 10 PARCELS 16A AND 16B
(PARCELS 2A AND 2B)
CDK-MEL LLC
410 BOSTON POST ROAD, SUITE 28
SUDSBURY, MA 01776-3034

PLANNER, LANDSCAPE ARCHITECT,
CIVIL ENGINEER & SURVEYOR:
Places Associates, Inc.
256 Great Road, Suite 4
Littleton, MA 01460

LITTLETON ASSESSORS DATA
Map: 10 Parcel: 16
Map: 10 Parcel: 16A
Map: 10 Parcel: 16B

REFERENCES
Middlesex District Registry of Deeds
Bk. 62584 Pg. 0122
Bk. 63843 Pg. 0100
Bk. 63843 Pg. 0096

ZONING
R-M Residential Multifamily
R-10 Residential Suburban



LOCUS
SCALE: 1" = 500'

SHEET 1	Notes & Legend
SHEET 2	Existing Conditions Plan
SHEET 3	Site Plan
SHEET 4	Layout Plan
SHEET 5	Grading Plan
SHEET 6	Drainage Plan
SHEET 7	Utility Plan
SHEET 7A	Cross Country Utility Plan
SHEET 8-10	Construction Details
SHEET 11 & 12	Erosion and Sedimentation Control Plan
SHEETS L-1& L-2	Landscaping Plans
SHEET CULV	Culvert Crossing Plan
SHEET HAB	Habitat Enhancement Plan
SHEET INV	Invasives Control and CR Signage Plan

ZONING COMPLIANCE TABLE

ZONING DISTRICT : INDUSTRIAL A
OVERLAY DISTRICT : AQUIFER PROTECTION DISTRICT

ZONING CRITERIA	REQUIRED	EXISTING	PROPOSED
LOT SIZE	—	20.08 AC.	20.6 AC.
LOT FRONTAGE	—	993.04'	993.04'
LOT SETBACK - FRONT	80'	—	145.'
LOT SETBACK - REAR	50'	—	161.3'
LOT SETBACK - SIDE	50'	—	85.4'
LOT COVERAGE - BUILDING	30%	—	10.8%
LOT COVERAGE - IMPERVIOUS	80%	—	22.7%
BUILDING HEIGHT	40'	—	40'
GROSS FLOOR AREA	—	—	98,150 S.F.
DENSITY	N/A	—	N/A
TRIP GENERATION	—	—	466 ADT
OPEN SPACE	N/A	—	N/A

AQUIFER DISTRICT CRITERIA	BY RIGHT	SPECIAL PERMIT	PROPOSED
IMPERVIOUS LOT COVERAGE	15%	15-30%	22.7%
GREATER 100 PARKING SPACES	100	>100	202
SEPTIC FLOWS - GPD/1000 S.F. LOT AREA	< 6 GPD	> 6 GPD	5.15 GPD/1000*
% RETENTION (LOT IN NATURAL STATE)	> 30%	< 30%	67.6% NATURAL**
GRADING LESS 5' ABOVE WATER TABLE	> 5'	< 5'	3'

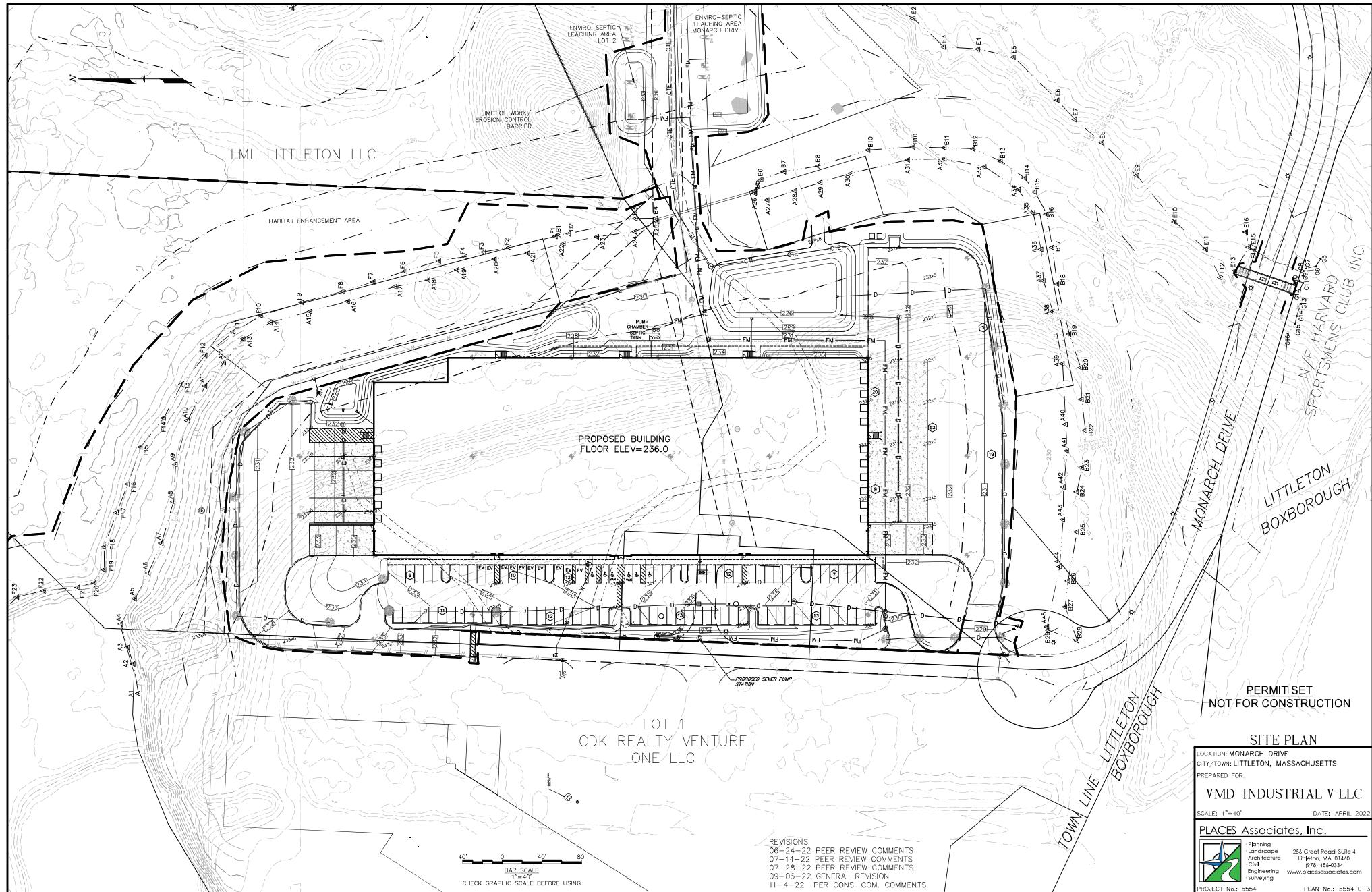
* SEWAGE FLOWS BASED ON LOT AREA OF LOTS 1 & 2 COMBINED SINCE NEW SYSTEMS WILL BE A SHARED SYSTEM
** 67.6% OF SITE WILL REMAIN IN CURRENT STATE - GRAVEL PREVIOUSLY REMOVED FROM SITE

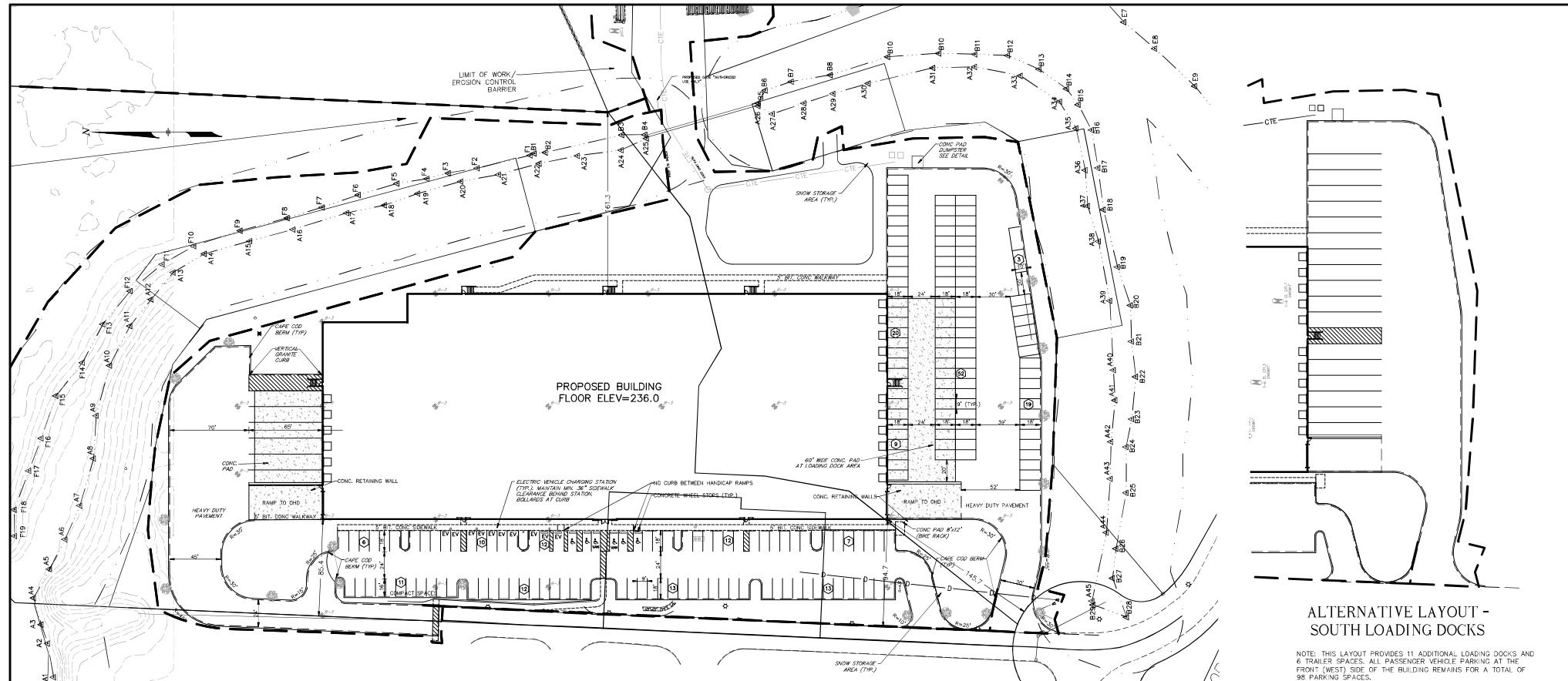
PARKING CALCULATIONS:
INDUSTRIAL: 100 VEHICLES / 1/125 EMPLOYEES ON LARGEST SHIFT (MAX 252)
EXACT USE YET TO BE DETERMINED
PARKING PROVIDED:
TOTAL: 109 PASSENGER VEHICLES INCLUDING:
6 HANDICAP SPACES (INCL. 2 VAN ACCESSIBLE)
10 ELECTRIC CHARGING STATION SPACES (INCL. 1 HANDICAP)
12 COMPACT CAR SPACES
LOADING DOCKS: 6 PLUS 2 ON GRADE ENTRANCES.

PERMIT SET
NOT FOR CONSTRUCTION

VMD INDUSTRIAL V LLC
COVER

LOCATION: MONARCH DRIVE	DATE: APRIL 2022
TOWN: LITTLETON, MASSACHUSETTS	
PREPARED FOR:	
VMD INDUSTRIAL V LLC	
SCALE: AS NOTED	
PLACES Associates, Inc.	
Planning Landscape Architecture CIV Engineering Surveying	25a Green Road, Suite 4 Littleton, MA 01460 (781) 484-0334 www.placesassociates.com
PROJECT No.: 5554	PLAN No.: COVER





ALTERNATIVE LAYOUT - SOUTH LOADING DOCKS

NOTE: THIS LAYOUT PROVIDES 11 ADDITIONAL LOADING DOCKS AND 6 TRAILER SPACES. ALL PASSENGER VEHICLE PARKING AT THE FRONT (WEST) SIDE OF THE BUILDING REMAINS FOR A TOTAL OF 98 PARKING SPACES.

PERMIT SET
NOT FOR CONSTRUCTION

LAYOUT AND MATERIALS PLAN

LOCATION: MONARCH DRIVE
CITY/TOWN: LITTLETON, MASSACHUSETTS

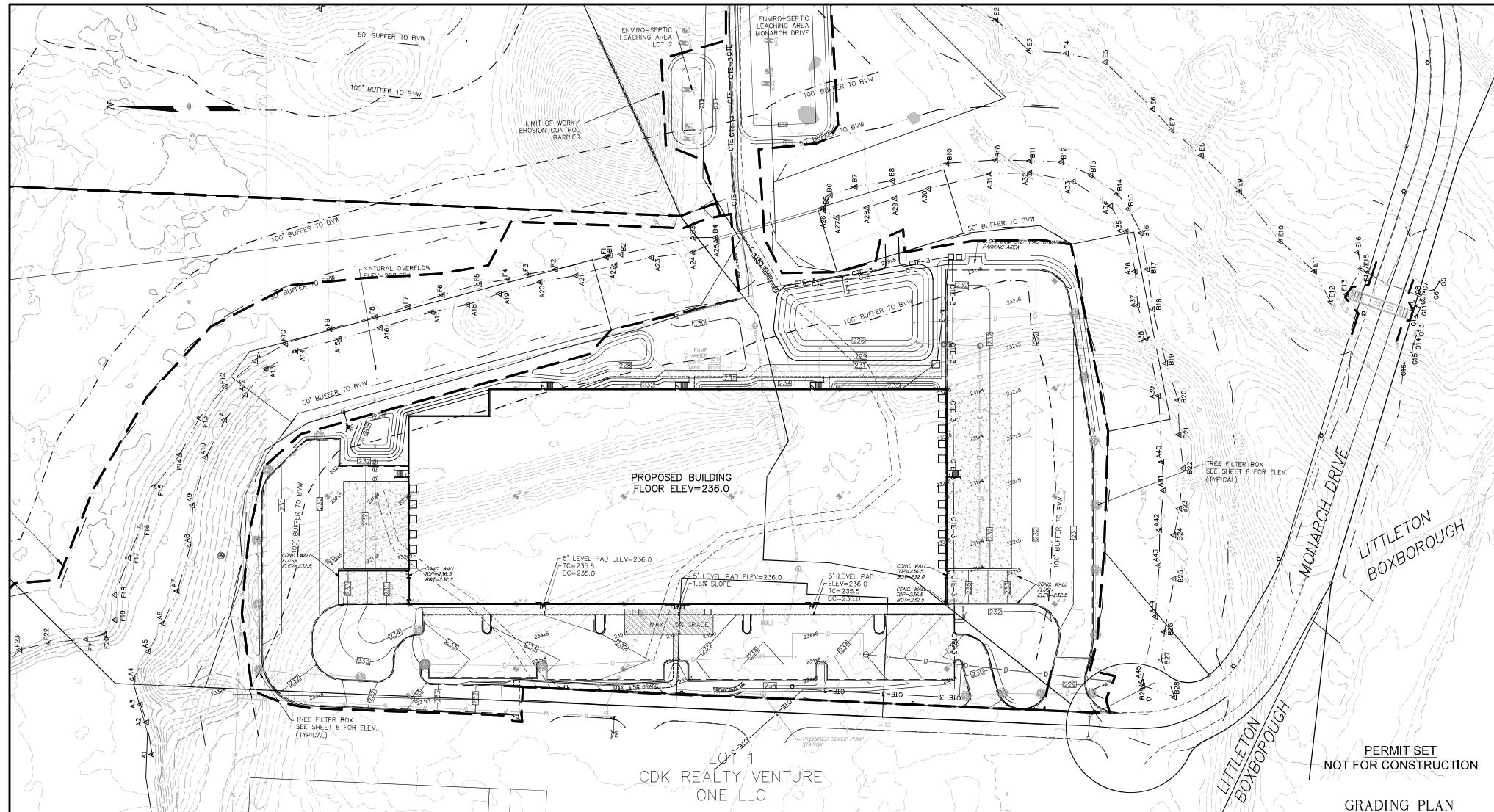
VMD INDUSTRIAL V LLC

SCALE: 1"=40' DATE: APRIL 2022

REVISIONS	PEER	REVIEW	COMMENTS
06-24-22	PEER	REVIEW	COMMENTS
07-14-22	PEER	REVIEW	COMMENTS
07-28-22	GENERAL	REVISION	
09-06-22	PER	CONS.	COM. COMMENTS
11-04-22			



PROJECT No.: 5554 PLAN No.: 5554 C-4



LOCATION: MONARCH DRIVE
CITY/TOWN: LITTLETON, MASSACHUSETTS

PREPARED FOR:

VMD INDUSTRIAL V LLC

SCALE: 1" = 40'

DATE: APRIL 2022

PLACES Associates, Inc.

Planning
Landscape
Architecture
Civil
Engineering
Surveying

256 Green Road, Suite 4
Littleton, MA 01460
(978) 484-0334

www.placesassociates.com

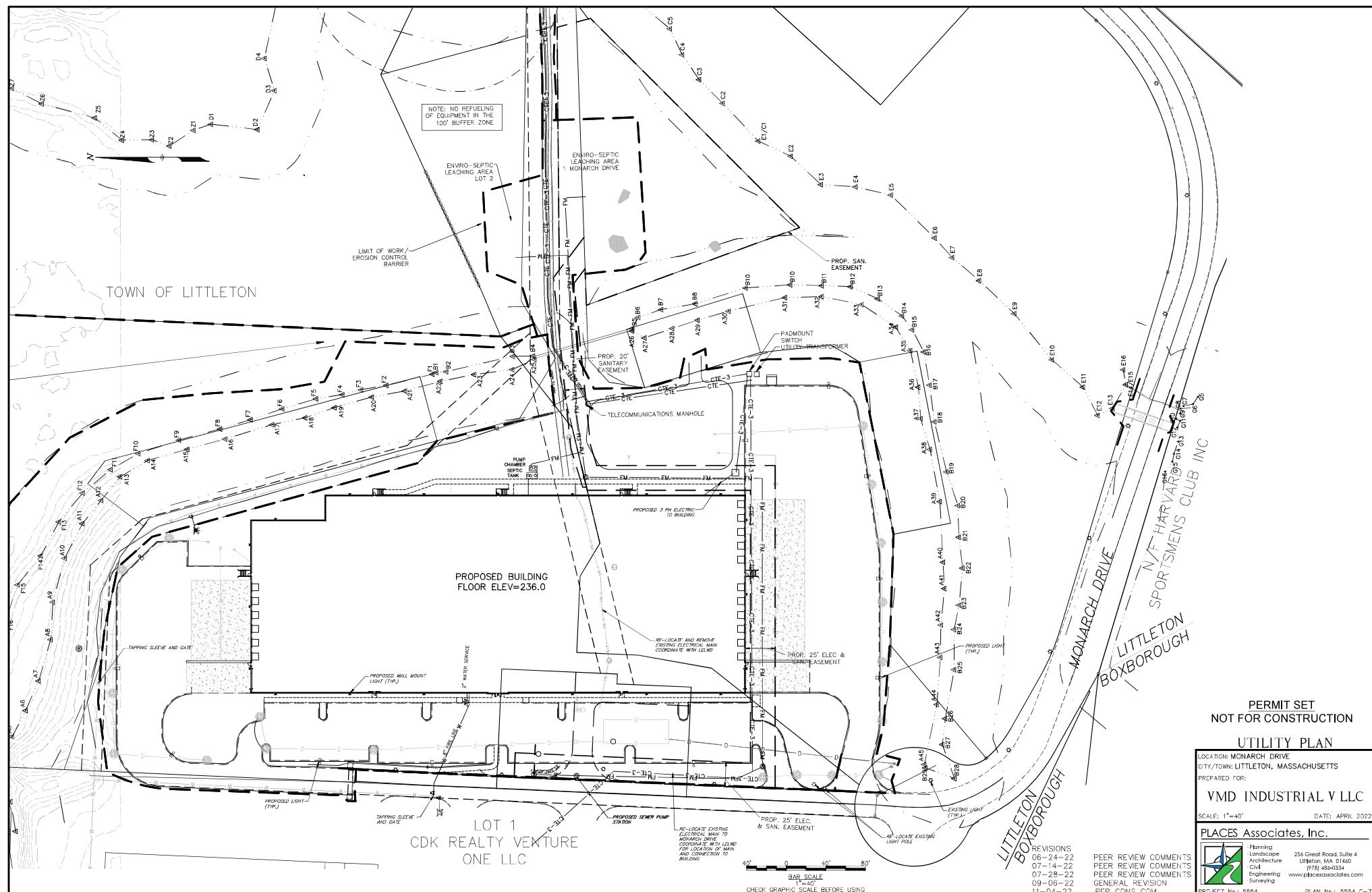
PROJECT No.: 5554

PLAN No.: 5554 C-5

40'
0
40'
80'
BAR SCALE
1" = 40'

CHECK GRAPHIC SCALE BEFORE USING

REVISIONS
06-24-22 PEER REVIEW COMMENTS
07-28-22 PEER REVIEW COMMENTS
09-06-22 GENERAL REVISION
11-04-22 PER CONS. COM. COMMENTS



PERMIT SET
NOT FOR CONSTRUCTION

UTILITY PLAN

LOCATION: MONARCH DRIVE

CITY/TOWN: LITTLETON, MASSACHUSETTS

PREPARED FOR:

VMD INDUSTRIAL V LLC

DATE: APRIL 2022

LACES Associates, Inc.

Planning
Leadership 264, Group 2, Page 5 of 14

Architecture
City
250 BEECH ROAD, SUITE 4
Littleton, MA 01460
(978) 426-0204

Engineering www.placesassociates.com

PROJECT No.: 5554 PLAN No.: 5554 C-7

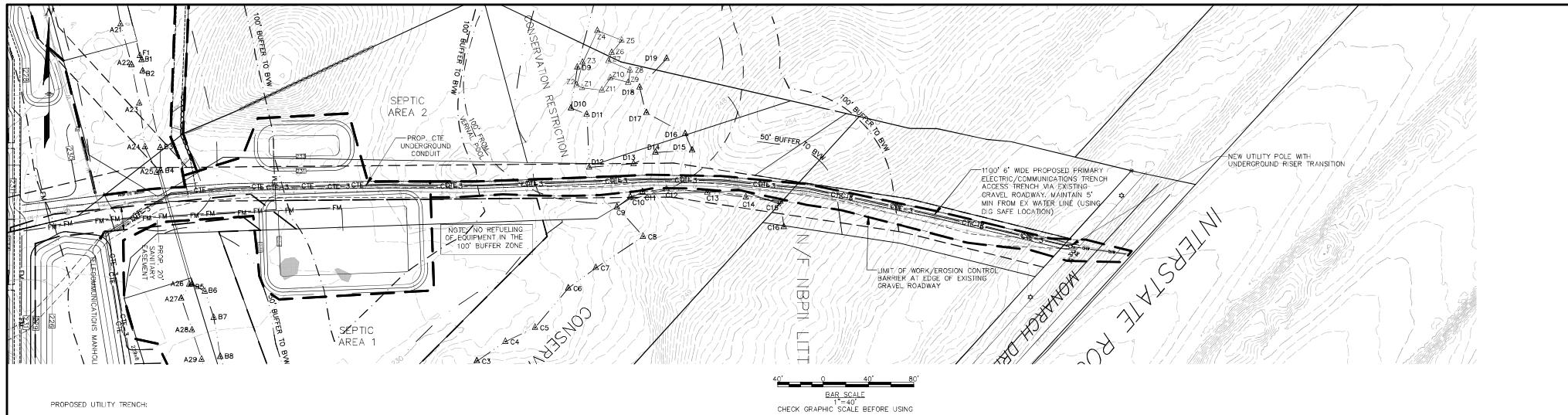
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PLAN No.: 5554



PROPOSED UTILITY TRENCH:

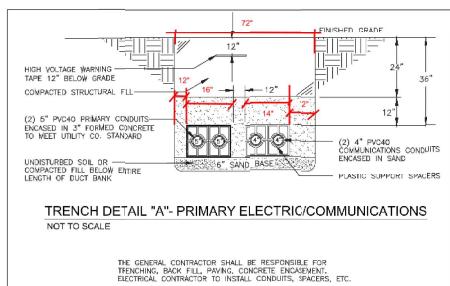
THE INTENT OF THE BURIAL OF THE OVERHEAD ELECTRICAL AND COMMUNICATIONS LINE TO MONARCH DRIVE BUSINESSES IS TO PROVIDE A MORE RELIABLE, LOWER IMPACT UTILITY SERVICE.

TOTAL LENGTH=600' (\pm 3600 s.f.)
LENGTH SAW CUT MONARCH DRIVE= \pm 35'
LENGTH IN 100' BUFFER TO BVW= \pm 370' (\pm 2220 s.f.)
LENGTH IN 50' BUFFER TO BVW= \pm 267' (\pm 1602 s.f.)
LENGTH WITHIN 100' OF VERNAL POOL= \pm 147' (\pm 881 s.f.)

EXISTING GRAVEL ACCESS ROAD WILL BE UTILIZED FOR BOTH ACCESS AND CASTINGS DURING INSTALLATION TO MINIMIZE IMPACT. TRENCH WILL MAINTAIN A MINIMUM OF 2' SEPARATION FROM THE DIGSAFE LOCATION OF THE WATER LINE AND SHALL MINIMIZE ANY TREE REMOVAL TO THE EXTENT PRACTICABLE.

EXTENT PRACTICABLE.

MAINTAIN EERIESTATE ASSETS IN THE NEW BUDGET BALE.



PERMIT SET
NOT FOR CONSTRUCTION

CROSS COUNTRY UTILITY PLAN

LOCATION: MONARCH DRIVE
CITY/TOWN: LITTLETON, MASSACHUSETTS

VMD INDUSTRIAL V LLC

SCALE: 1"=40'

DATE: AUGUST 20

PLACES Associates, Inc.

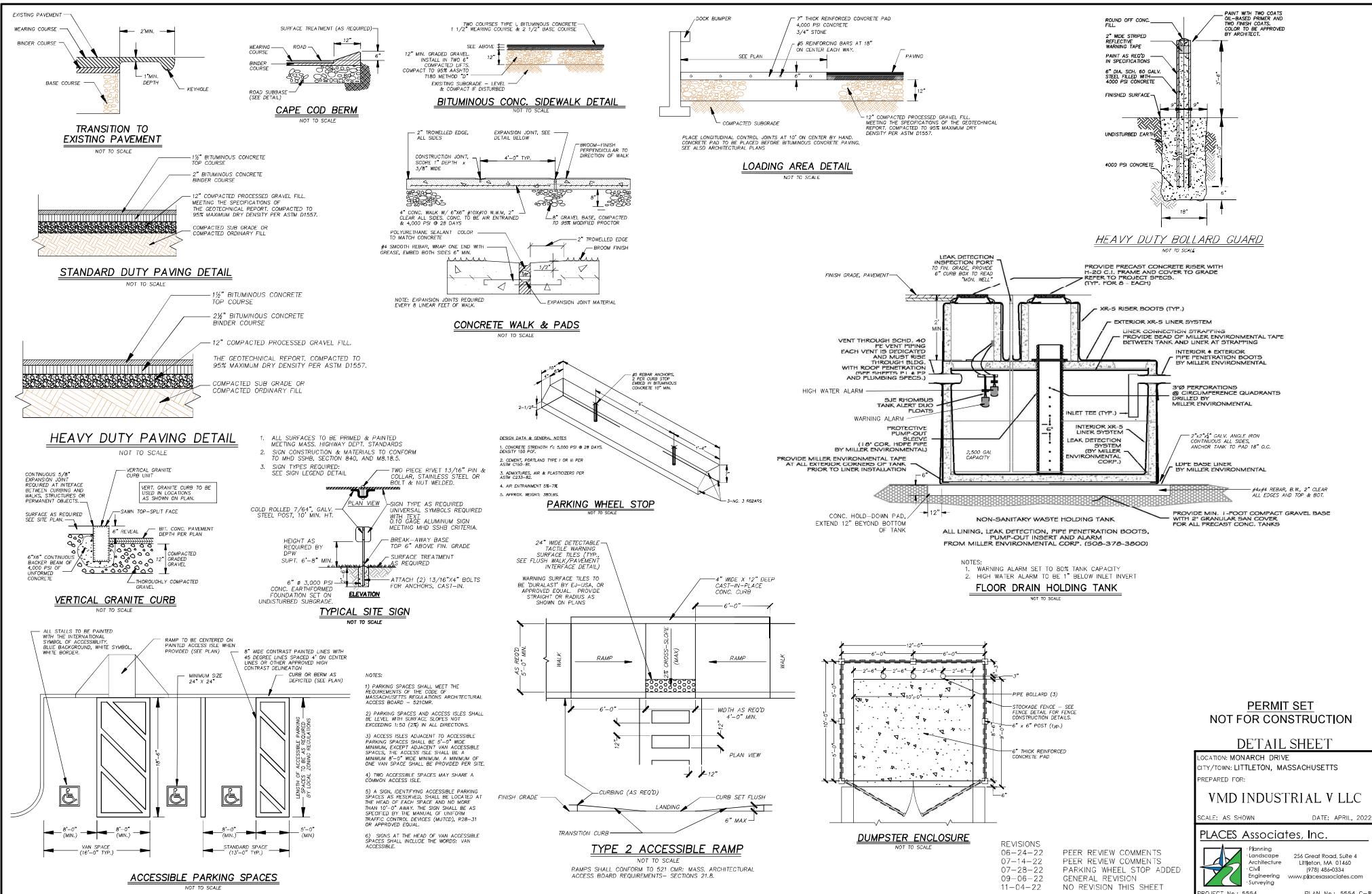
Planning
Landscaping 254 Great Road, Suite 4

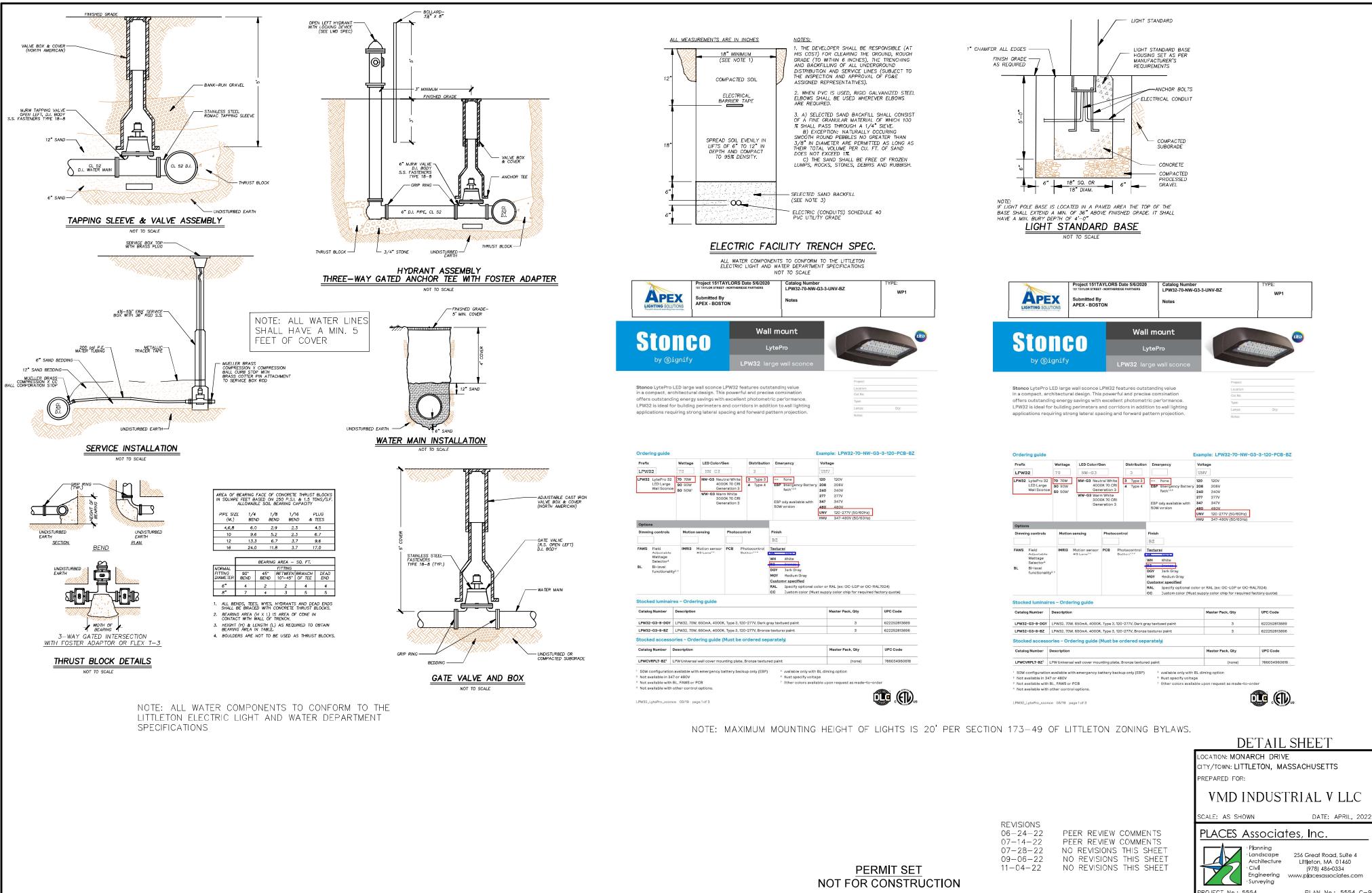
Civil Engineering www.placesassociates.com

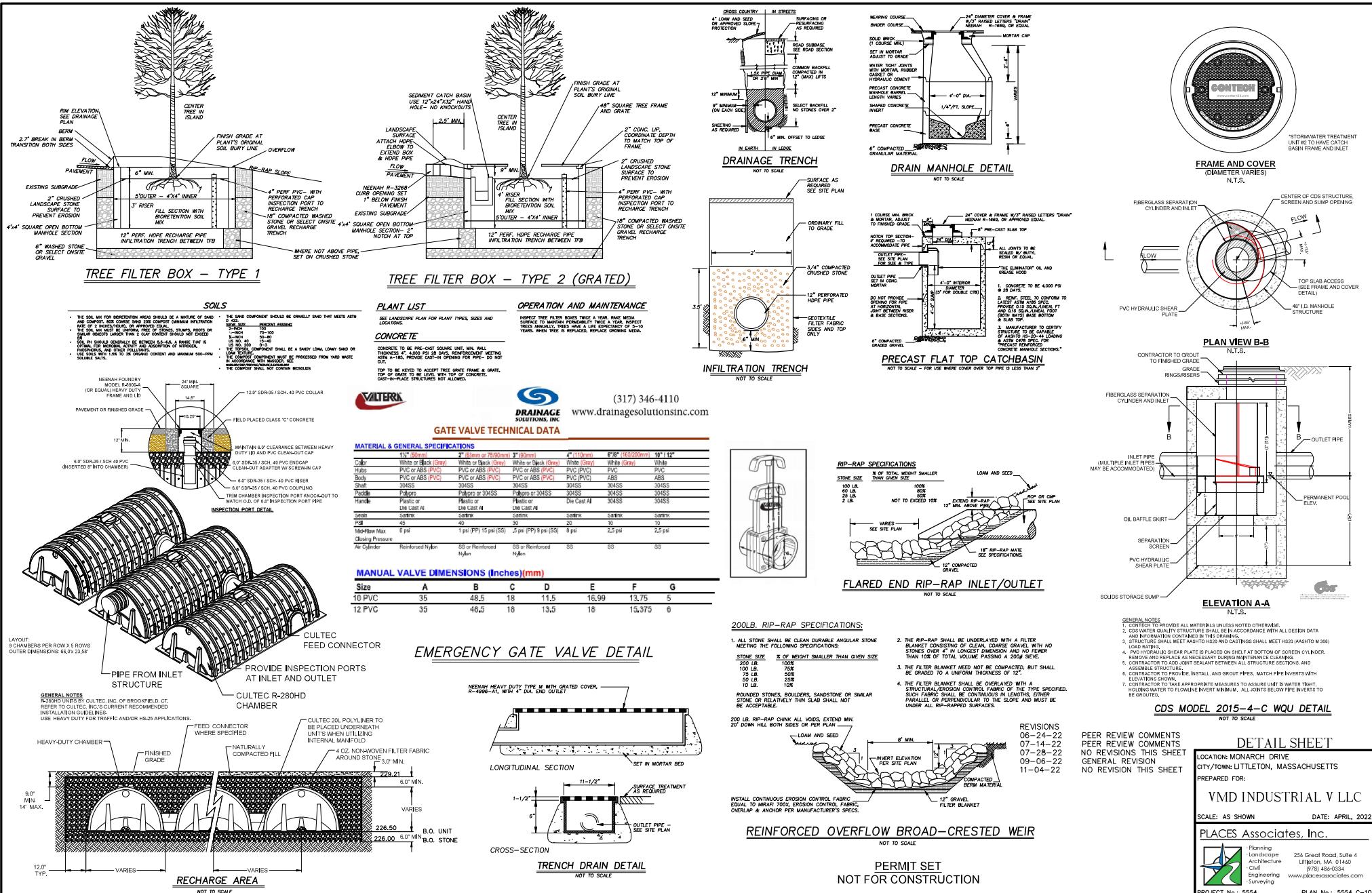
PROJECT No.: 5554 PLAN No.: 5554 C-1

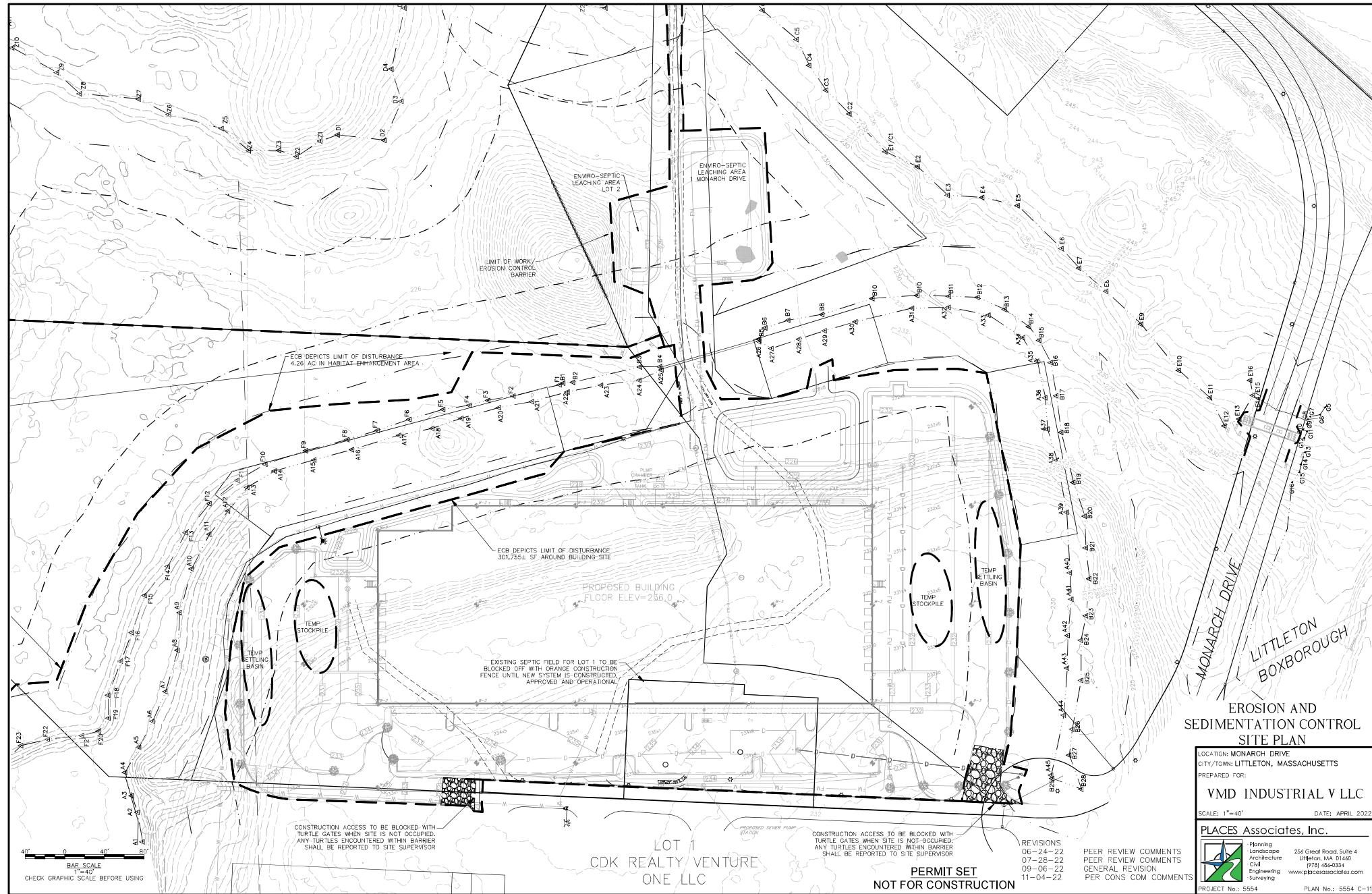
10 of 10 pages

REVISIONS
11-04-22 PER CONS COM COMMENT









EROSION AND SEDIMENTATION CONTROL SITE PLAN

LOCATION: MONARCH DRIVE
CITY/TOWN: LITTLETON, MASSACHUSETTS

PREPARED FOR:

VMD INDUSTRIAL LLC

VMD INDUSTRIAL LLC

SCALE: 1"=40'

DATE: APRIL 2022

PLACES Associates, Inc

EDUCES ASSOCIATES, INC.

Planning
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PROJECT No.: 5554 PLAN No.: 5554 C-11

PERMIT SET
NOT FOR CONSTRUCTION

DRAINAGE SYSTEM OPERATIONS & MAINTENANCE PLAN EROSION & SEDIMENTATION CONTROL PLAN

STORM WATER COLLECTION SYSTEM

THE STORMWATER COLLECTION SYSTEM SERVING THIS SITE IS INTENDED TO BOTH COLLECT STORM WATER RUNOFF AND TO PROVIDE TREATMENT OF THE STORMWATER PRIOR TO ITS DISCHARGE INTO THE NEARBY CATCHMENT. THE CONTRACTOR SHALL FOLLOW THE USE OF STORMWATER BEST MANAGEMENT PRACTICES (BMP'S). WHEN THESE BASIC CONTROL MECHANISMS ARE FUNCTIONING PROPERLY THEY PROVIDE FOR A REDUCTION OF CONTAMINANTS AND DEBRIS ENTERING THE STORMWATER COLLECTION SYSTEMS, AND THEREFORE DOWNSTREAM RECEIVING WATERS/ WETLANDS.

STORMWATER SYSTEMS RELY UPON PROPER MONITORING, OPERATIONS AND MAINTENANCE TO DETERMINE WHETHER THE PROPER MONITORING, OPERATIONS AND MAINTENANCE MUST BE ONGOING THROUGHOUT THE LIFE AND USE OF THE SITE, AND TO BE INITIATED AFTER COMPLETION OF THE PROJECT ACTS NOT RELATED TO THE CONTRACTOR'S RESPONSIBILITY AS SPECIFIED. PROVIDED THAT IT IS SPECIFICALLY FOR SITE-RELATED ACTIVITIES, NOT ACTIVITIES WHICH ARE EXTERIOR TO BUILDINGS, THOUGH THERE ARE NECESSARY IMPLICATIONS AND CORRELATIONS BETWEEN THE TWO.

MONITORING: THE MONITORING SYSTEMS ARE REQUIRED TO BE MONITORED BY THE DESIGNATED SYSTEM MANAGER. THE NAME, ADDRESS AND DAY AND NIGHT (OR EMERGENCY) TELEPHONE NUMBER OF THIS PERSON OR ENTITY SHALL BE PROVIDED TO THE TOWN PRIOR TO THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE OF CONSTRUCTION. THIS INDIVIDUAL SHALL BE RESPONSIBLE FOR MONITORING THE MONITORING SYSTEMS. MAINTENANCE ACTIVITIES DRAINAGE SYSTEM COMPONENTS SHALL BE REFERRED TO AS THE SPECIFIC LOCATION OR THE DESIGN PLAN DESIGNATION (E.G. CTR #1) TO AVOID CONFUSION OR MISIDENTIFICATION THE LOG SHALL BE MADE AVAILABLE TO ANY MUNICIPAL OR STATE AGENCY HAVING JURISDICTION WITHIN TEN (10) DAYS OF A WRITTEN REQUEST BY THAT AGENCY.

MONITORING FOR THIS SITE SHALL CONSIST OF THE FOLLOWING:
1. ALL CATCHBASINS SHALL BE INSPECTED TO ENSURE THEY ARE WATER-TIGHT (HOLDING WATER), HAVE ADEQUATE SUMP CAPACITY, ALL OIL/GAS TRAPS ARE IN PLACE, AND GRATES AND FRAMES ARE FREE FROM STRUCTURAL DAMAGE, AND ARE NOT PONDING WATER. THIS INSPECTING SHALL OCCUR AT A MINIMUM OF FOUR (4) MONTHS INTERVALS (QUARTERLY).

2. ALL DRAINAGE MANHOLES SHALL BE INSPECTED TO ENSURE THAT THEY ARE WATER-TIGHT AND ALL FRAMES ARE FREE FROM STRUCTURAL DAMAGE, ARE DRAWING FREELY AND ARE NOT PONDING WATER. MONITORING SHALL OCCUR A MINIMUM OF ONCE PER YEAR.

3. OTHER DRAINAGE SYSTEMS SHALL BE INSPECTED TO ENSURE THAT NO EROSION IS OCCURRING OUTSIDE ALL OUTLETS ARE FREE-FLOW AND NO DAMAGE HAS OCCURRED AS PART OF SITE MAINTENANCE OR ACTIVITIES.

4. PROVIDE MAINTENANCE AND MONITORING OF THESE AND OTHER COMPONENTS AS SPECIFIED IN THE OPERATION AND MAINTENANCE MANUAL (O&M).

OPERATIONS:

1. GOOD HOUSE KEEPING AND MATERIAL MANAGEMENT REDUCE THE RISK OF SPILLS OR ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF. A POLLUTION PREVENTION PLAN SHALL BE DEVELOPED WHICH SHALL INCLUDE THE FOLLOWING:

1.1. ALL MATERIALS STORED ON-SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND UNDER A ROOF OR OTHER PROTECTION FROM THE ELEMENTS.

1.2. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.

1.3. SUBSTANCES SHOULD NOT BE MIXED WITH ONE ANOTHER, UNLESS RECOMMENDED BY THE MANUFACTURER.

1.4. WHENEVER POSSIBLE, ALL A PRODUCT WILL BE USED UP BEFORE DISPOSING OF A CONTAINER.

1.5. THE CONTRACTOR SHALL INSPECT THE SITE DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE, DURING ALL CONSTRUCTION PHASES.

1.6. ORIGINAL MATERIALS LABELS AND MATERIAL SAFETY DATA SHEETS SHALL BE KEPT AND RETAINED FOR A MINIMUM OF ONE YEAR.

1.7. ALL ON SITE AREAS AND PARKING AREAS SHALL BE REGULARLY MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO PREVENT LEAKAGE.

1.8. PESTICIDE PRODUCTS SHALL BE STORED UNDER COVER AND SHALL BE IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

1.9. FERTILIZERS SHALL ONLY BE USED IN THE MINIMUM AMOUNTS AS RECOMMENDED BY THE MANUFACTURER.

1.10. THE CONTENTS OF ANY UNUSED FERTILIZER SHALL BE TRANSFERRED TO A CLEARLY LABELED, SEALABLE PLASTIC BIN, TO AVOID SPILLAGE.

1.11. PAINTS AND SOLVENTS SHALL BE STORED IN ORIGINAL MANUFACTURER'S CONTAINERS IN A CONTROLLED LOCATION.

1.12. THE USE OF PAINTS AND SOLVENTS SHALL, WHENEVER POSSIBLE, BE LIMITED TO SERVICE OR STORAGE BAYS AND NOT IN PARKING OR ACCESS WAYS THAT ARE TRAVELED BY CONSTRUCTION VEHICLES OR EQUIPMENT.

SPILL CONTROL PRACTICES:

2.1. MANUFACTURER'S RECOMMENDED METHODS SHALL BE CLEARLY POSTED FOR SPILL PREVENTION, CLEANUP AND THE LOCATIONS OF CLEANUP INFORMATION AND SUPPLIES.

2.2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT ON-SITE IN A DESIGNATED MATERIAL STORAGE AREA. EQUIPMENT WILL INCLUDE, BUT NOT BE LIMITED TO: SOFT SPONGES, DUST PANS, BROOMS, RUBBER GLOVES, COGGLES, ABSORBENT MATERIALS SAND, SAMOUS AND PLASTIC & METAL TRASH CONTAINERS, SPECIFICALLY KEPT AND LABELED FOR THIS PURPOSE.

2.3. SPILLS OF TOXIC OR HAZARDOUS MATERIAL OR NATURE WILL BE REPORTED TO THE APPROPRIATE STATE, LOCAL OR FEDERAL AGENCY, AS REQUIRED BY-LAW.

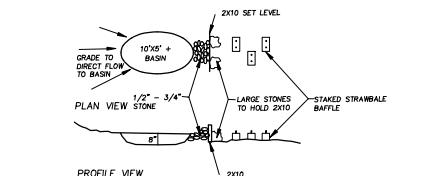
2.4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL OR NATURE WILL BE REPORTED TO THE APPROPRIATE STATE, LOCAL OR FEDERAL AGENCY, AS REQUIRED BY-LAW.

2.5. THE SPILL PREVENTION PLAN SHALL BE PROVIDED TO THE TOWN AND THE PLANT TO ENSURE THAT SPILLS WILL NOT REOCUR, AND HOW TO CLEANUP THE SPILL IF THERE IS ANOTHER ONE.

3. SPILLS OF TOXIC OR HAZARDOUS MATERIAL OR NATURE WILL USE THE ULTIMATE DISPOSITION OF STORMWATER AND OTHER SITE-GENERATED FORMS OF RUNOFF.

4. SNOW PLOWING - SNOW PLOWING OPERATIONS SHALL STOCKPILE SNOW, ICE AND ACCUMULATED MATERIALS IN AREAS WHERE SNOW MELT WILL FLOW INTO THE ON-SITE DRAINAGE SYSTEMS. SNOW PLOWING OPERATIONS SHALL NOT BE CONDUCTED.

5. SALT USE SITE-WIDE SHALL BE APPLIED TO THE MINIMUM EXTENT POSSIBLE TO MAINTAIN SAFETY CONDITIONS, AND ONLY NOT SPECIFICALLY EXCLUDED BY ANY SPECIAL CONDITIONS.



TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE

1.1/2" SQ. WOOD POST
10' TO 4" ON CENTER*

WRAP ATTACHMENT
CORD AROUND POST TWICE

5" - 10"

PROTECTED AREA

2" - 3"

BURY FABRIC 6" INTO EXISTING GROUND
OR PLACE 4" OF 1/2" - 3/4" STONE
OVER FABRIC AT BASE OF FENCE

* STEEL POST MAY BE SUBSTITUTED. DISTANCE BETWEEN POSTS TO VARY AS RECOMMENDED BY TRIBUTARY AREA. 10' FOR 100 SF ETC.
6" FOR 500 SF/FENCE

** DEPTH TO VARY WITH TRIBUTARY AREA: 2" FOR 100 SF ETC.
3" FOR 200 SF ETC. 4" FOR 300 SF ETC. 5" FOR 400 SF ETC.
6" FOR 500 SF ETC. 7" FOR 600 SF ETC. 8" FOR 700 SF ETC.
9" FOR 800 SF ETC. 10" FOR 900 SF ETC. 11" FOR 1000 SF ETC.

** IF POST IS TO BE PLACED IN A SOFT FABRIC, THEN 3" DEPTH
NECESSARY TO PROVIDE A STABLE POST FOR LOADED FENCE CONDITIONS

SILT FENCE DETAIL

NOT TO SCALE

MAINTENANCE:

GENERAL:

1. PARKING AREAS, ROAD AND ACCESS WAYS AND GUTTERS SHALL BE

SWEEP CLEAN TO DEBRIS AND ACCUMULATION ON A REGULAR BASIS.

AT LEAST ONCE A SPRING AND FALL CLEANING SCHEDULE IS

RECOMMENDED.

2. ALL CATCHBASINS SHALL HAVE THE Sumps CLEANED AT ANY TIME OF

THE YEAR. WHEN 2' OR LESS SPACE EXISTS BELOW THE OUTLET INVERT,

OR 1/2' DEEP PER 100 SF, DEBRIS OR ACCUMULATION, ALL DEBRIS FROM THE CLEANING SHALL BE DISPOSED OF OFF-SITE AND IN A MANNER AS PROSCRIBED BY LAW.

AND SEALED IMMEDIATELY AFTER EACH CATCHBASIN CLEANING.

3. OIL ABSORBING "PILLOWS" OR OTHER MEANS SHALL BE USED TO REMOVE

ACCUMULATIONS OF HYDROCARBONS (OIL/GREASE) IN CATCHBASINS THAT

ARE NOT REMOVABLE BY HYDROCARBONS, WHICH DO

NOT EVAPORATE BETWEEN INSPECTIONS.

4. ALL BROKEN, LEAKING OR OTHERWISE DAMAGED STRUCTURES SHALL BE

REPLACED WITH SIMILAR MATERIALS OR REPAIRS MADE.

5. ALL BROKEN, LEAKING OR OTHERWISE DAMAGED STRUCTURES SHALL BE

REPLACED WITH SIMILAR MATERIALS OR REPAIRS MADE.

6. ALL BROKEN, LEAKING OR OTHERWISE DAMAGED STRUCTURES SHALL BE

REPLACED WITH SIMILAR MATERIALS OR REPAIRS MADE.

7. THE REPLACEMENT OF ANY PIPE OR DRAINAGE STRUCTURE SHALL MATCH

THE ORIGINAL DESIGN SPECIFICATIONS.

8. PROVIDE MAINTENANCE AND MONITORING AS SPECIFIED IN THE OPERATION

AND MAINTENANCE MANUAL (O&M).

NOTES:

1. THIS PLAN IS PART OF A SET OF DOCUMENTS THAT ARE TO BE VIEWED AND

REVIEWED IN THEIR ENTIRETY, SUCH DOCUMENTS INCLUDE THE CONSTRUCTION

AND MAINTENANCE PLANS AND ANY PERMITS ISSUED BY THE TOWN OR

OTHER REGULATORY AGENCIES.

2. THIS IS A PERFORMANCE SPECIFICATION WHICH THE CONTRACTOR SHALL APPLY

TO THE CONSTRUCTION OF THE PROJECT.

3. EROSION CONTROL MEASURES DESCRIBED HEREIN SHALL ALSO BE APPLICABLE TO

INDIVIDUAL LOT DEVELOPMENT.

EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EROSION AND

SEDIMENTATION CONTROL MEASURES ARE PROVIDED TO THE CONTRACTOR, CONTRACTOR'S EQUIPMENT, WEATHER CONDITIONS, AND ANY ORDERS OF CONDITIONS

RECOMMENDED BY THE TOWN OR ANY OTHER REGULATORY AGENCY.

2. THE CONTRACTOR SHALL ENSURE THAT EROSION AND SEDIMENTATION ARE

LIMITED AS MUCH AS POSSIBLE IN THE EROSION CONTROL

STRUCTURE.

3. THE CONTRACTOR SHALL ENSURE THAT EROSION AND SEDIMENTATION ARE

LIMITED AS MUCH AS POSSIBLE IN THE EROSION CONTROL

STRUCTURE.

4. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY DIVERSION SWALES AND SETTING

BETWEEN AREAS OF CONSTRUCTION AND AREAS THAT HAVE BEEN FROZEN OR

NOT YET FROZEN.

5. THE CONTRACTOR SHALL ENSURE THAT EROSION AND SEDIMENTATION ARE

LIMITED AS MUCH AS POSSIBLE IN THE EROSION CONTROL

STRUCTURE.

6. IF THE SEASON OR ADVERSE WEATHER CONDITIONS DO NOT ALLOW THE ESTABLISHMENT OF

VEGETATION, TEMPORARY MULCHING WITH STRAW, TACKIFIED WOOD CHIPS OR OTHER

MATERIALS SHALL BE PROVIDED.

7. A MINIMUM OF 6" TOPSOIL SHALL BE PLACED AND ITS SURFACE SMOOTHED TO THE

SPECIFIED GRADES.

8. SEED APPLICATIONS SHALL BE IN ACCORDANCE WITH THE GRASS AND SLOPE COVER

SPECIFICATIONS.

PRE-CONSTRUCTION:

1. AN EROSION CONTROL BARRIER SHALL BE INSTALLED AS DEPICTED ON THE SITE PLAN,

BETWEEN THE AREAS TO BE DISTURBED AND WETLAND AREAS. THIS BARRIER SHALL

REMAIN IN PLACE UNTIL THE EROSION CONTROL BARRIER HAS BEEN FROZEN OR

STABILIZED TO THE EROSION CONTROL BARRIER.

2. PHOTOGRAPHS AND/OR VIDEO IMAGES OF THE PRE-CONSTRUCTION CONDITIONS

ON THE SITE SHALL BE TAKEN.

3. THE CONTRACTOR SHALL ENSURE THAT THE SITE IS PROTECTED FROM THE

DISRUPTIONS FOR THE OVERNIGHT STORAGE OF EQUIPMENT AND STOCKPILES OF

MATERIALS.

4. IN THE STAGING AREA, THE CONTRACTOR SHALL HAVE A STOCKPILE OF MATERIALS

READY FOR USE.

5. THE CONTRACTOR SHALL ENSURE THAT THE SITE IS PROTECTED FROM THE

DISRUPTIONS FOR THE OVERNIGHT STORAGE OF EQUIPMENT AND STOCKPILES OF

MATERIALS.

6. THE CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL ON SITE AND SHALL UTILIZE

EROSION CONTROL MEASURES WHERE NEEDED, REGARDLESS OF WHETHER THE MEASURES

ARE SPECIFIED HEREIN, ON THE PLAN OR IN ANY ORDER OF CONDITIONS.

GENERAL CONSTRUCTION REQUIREMENTS:

1. ANY REFUELING OF CONSTRUCTION VEHICLES AND EQUIPMENT SHALL TAKE PLACE OUTSIDE

OF THE 100 FOOT BUFFER ZONE TO THE ENTRANCE TO THE DRAINAGE SYSTEM AND

SHALL NOT BE CONDUCTED IN PROXIMITY TO SEDIMENTATION BASINS OR DIVERSION

2. NO ON-SITE DISPOSAL OF SOLID WASTE, INCLUDING BUILDING MATERIALS IS ALLOWED IN THE 100 FOOT BUFFER ZONE.

THE BURDEN OF STAGING MATERIALS SHALL NOT BE ALLOWED ANYWHERE ON SITE.

3. NO MATERIAL SHALL BE STORED IN THE STAGING AREA OR ON THE SITE, WHETHER IN THE FORM OF MATERIALS, EQUIPMENT, OR MATERIALS OF EXISTING OR PROPOSED

DRAINAGE SYSTEMS. ALL CONTRACTORS INCLUDING CONCRETE SUPPLIERS, PAINTERS AND

PLASTERERS SHALL BE INFORMED THAT THE CLEANING OF EQUIPMENT IS PROHIBITED IN ANY AREA WHERE CONCRETE, PAINT, OR PLASTER IS APPLIED TO DRAINAGE SYSTEMS.

4. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL WHICH SHALL INCLUDE STREET SWEEPING OF ALL PAVED SURFACES WITHIN THE SITE AND OFF-SITE AREAS THAT ARE IMPACTED BY DUST FROM CONSTRUCTION ACTIVITIES.

5. ALL SUBCONTRACTORS SHALL BE NOTIFIED THAT CLEANING OF EQUIPMENT WITHIN THE 100' WETLAND BUFFER IS NOT PERMITTED, INCLUDING, BUT NOT LIMITED TO, CONCRETE TRUCKS, PAINTERS, PLASTERERS, ETC.

EROSION & SEDIMENTATION CONTROL PLAN AND

STORMWATER O&M

LOCATION: MONARCH DRIVE

CITY/TOWN: LITTLETON, MASSACHUSETTS

PREPARED FOR:

VMD INDUSTRIAL V LLC

SCALE: AS SHOWN

DATE: APRIL, 2022

REVISIONS:

06-24-22

07-14-22

07-28-22

09-06-22

11-04-22

PEER REVIEW COMMENTS

PEER REVIEW COMMENTS

NO REVIEW THIS SHEET

NO REVIEW THIS SHEET

PER CONS COM COMMENTS

NOTES:

1. CARE SHOULD BE TAKEN TO ENSURE THAT THE UTILITY TRENCHES DO NOT CHANNELIZE

RUNOFF TOWARDS STREETS OR OTHER OFF-SITE AREAS.

2. THE INSTALLATION OF SUBSURFACE UTILITIES AND APPURTENANCES SHALL BE IN

ACCORDANCE WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS.

3. THE DRAWDOWN LENGTH SHALL BE LIMITED TO THE MAXIMUM LENGTH REQUIRED FOR DAILY UTILITY INSTALLATION. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE.

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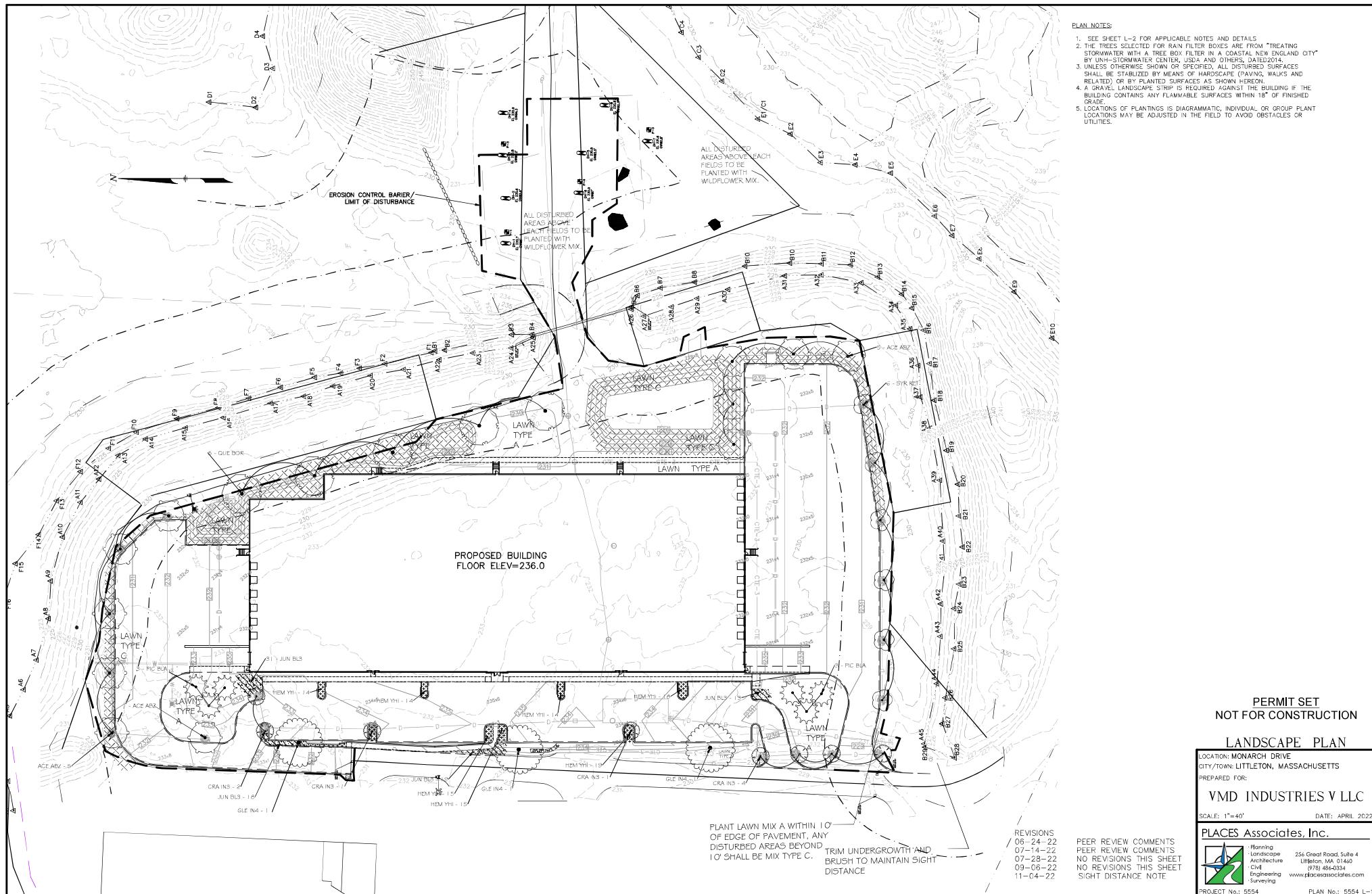
20. CARE SHOULD BE TAKEN TO ENSURE THAT THE UTILITY TRENCHES DO NOT CHANNELIZE

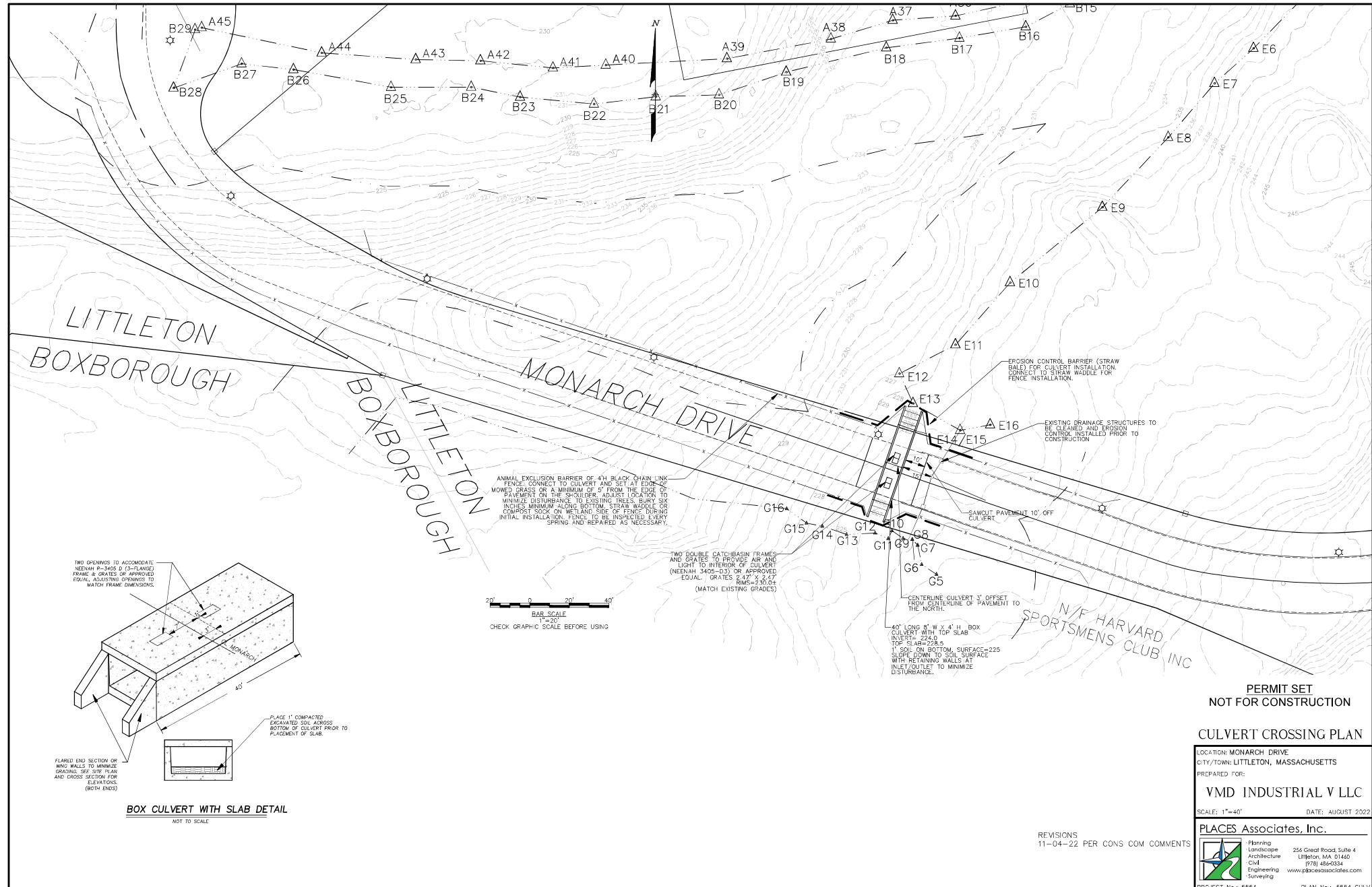
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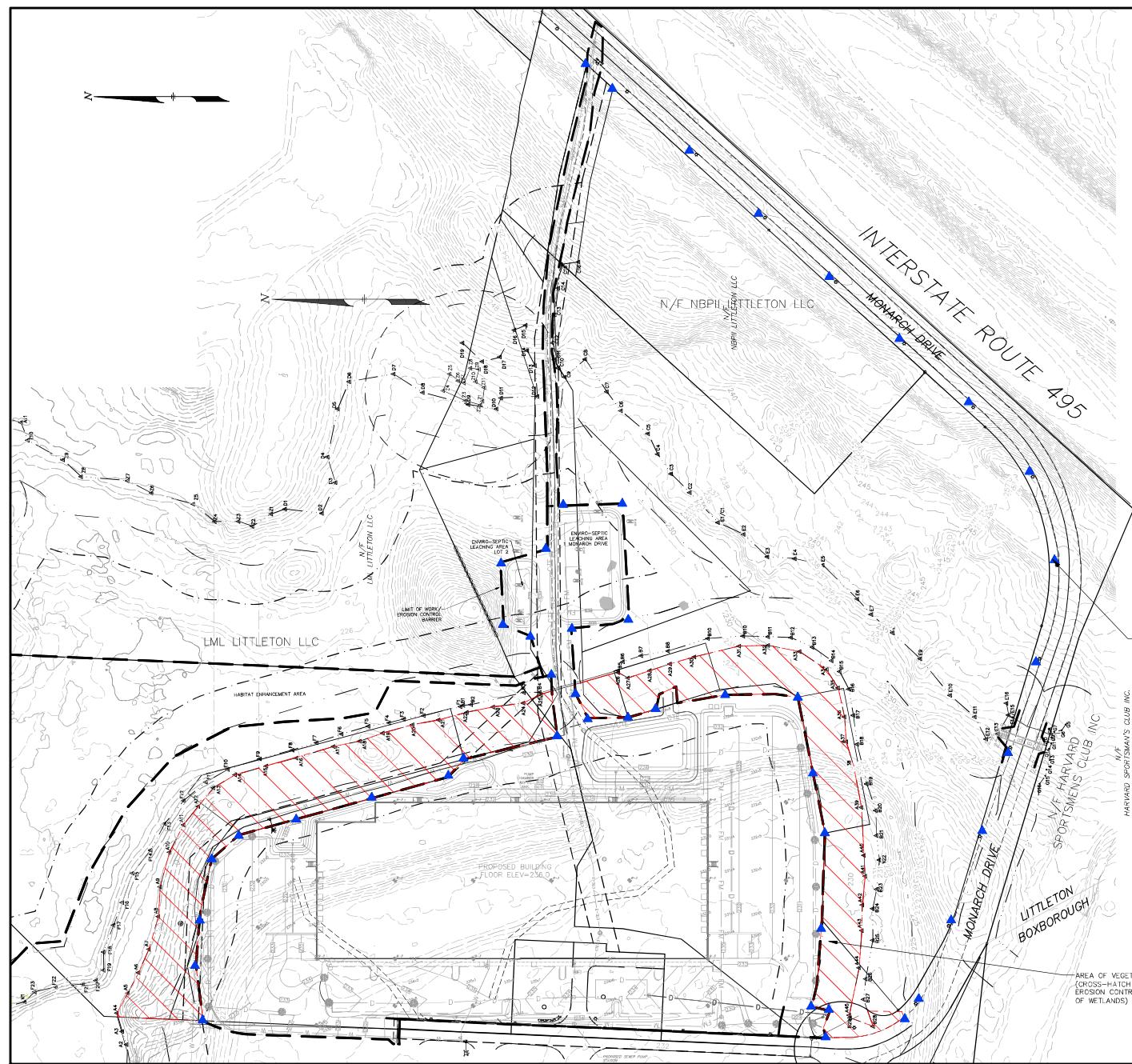
22. CARE SHOULD BE TAKEN TO ENSURE THAT THE UTILITY TRENCHES DO NOT CHANNELIZE





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Contact Conservation Commission at 978-540-2428



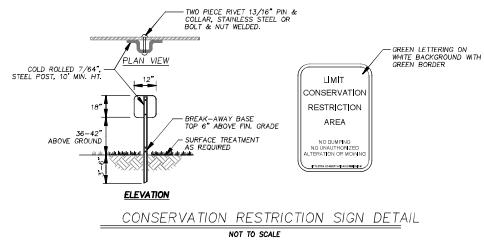
Invasive Vegetation Control Plan

The areas for prescribed Vegetation Management are indicated on the site plan. The objectives are the control of undesirable, non-native species within the treatment zones that are listed by the Massachusetts Invasive Plant Advisory Group (MPIAG). Notable among the problematic species that have colonized the buffer zone and adjacent areas include: Autumn olive (*Elaeagnus umbellata*), honeysuckle (*Lonicera* spp.), multiflora rose (*Rosa multiflora*), Asiatic bitterweed (*Celastrus orbiculatus*) and other species asif encountered in the treatment zones.

Methodology

Vegetation control will via a combination of physical removal (cutting/prying), foliar, and cut-and-dab application of non-persistent herbicide by a licensed Applicator. Woody specimens will generally be left in place (roots) to minimize soil disturbance. These applications will be stem or bark treatment, as appropriate. Treatment is anticipated to consist of two (2) rounds; one spring or summer treatment and one autumnal treatment.

Cut slash materials will be removed and disposed of, ideally in parallel with preparative work for the turtle nesting habitat. An approximate estimate of pre-treatment coverage will be generated based on visual sampling supported by GPS locations. A post-treatment(s) assessment will also be made with the objective of documenting less than 5% occurrence of undesirable non-native species in the post-treatment(s) condition. The assessment will provide representative photo-documentation and a brief narrative describing the actions taken and the resultant floral composition in the treatment areas. The report will be provided before the end of calendar year 2023.



**PERMIT SET
NOT FOR CONSTRUCTION**

LOCATION: MONARCH DRIVE
CITY/TOWN: LITTLETON, MASSACHUSETTS

PREPARED FOR:

VMD INDUSTRIAL V LLC

SCALE: 1"=60'

PLACES Associates, Inc.

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Planning
Landscape 256 Great Road, Suite 4

Architecture
- Civil Littleton, MA 01460
 (978) 486-0334

 Engineering • Surveying • www.placesassociates.com

PROJECT No.: 5554 PLAN No.: 5554 C-



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