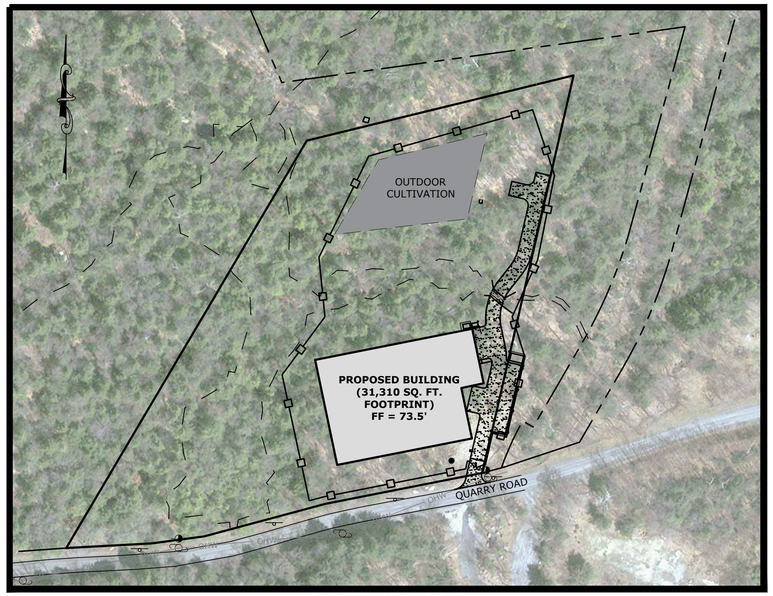
SPECIAL PERMIT PLAN SET
TETRAHYDRA AGTEK LLC

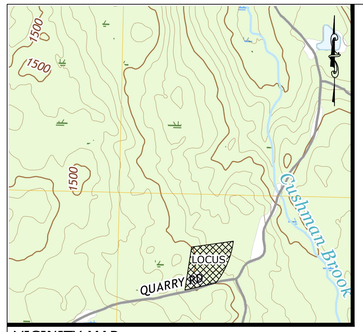
509 QUARRY ROAD

TOWN OF

BECKET, MA.



AERIAL VIEW SITE PLAN
NOT TO SCALE



VICINITY MAP APPROXIMATE SCALE: 1" = 1000'

GENERAL NOTES

1. Wetlands were delineated by Foresight Land Services on December 1, 2021, And field surveyed by Foresight Land Services on December 22 and 23, 2021.
2. Establishing elevation for Topographic Survey was performed by Foresight Land Services on December 22 and 23, 2021, using Electronic Total Station with Data Collector.
3. Plan was compiled on a PC-based computer using AutoCAD Civil 3D 2018.
4. Horizontal Datum is based upon plan entitled "Plan of Land in Becket (Berkshire Co), MA prepared For Adrienne Metcalf, by Hilltown Land Surveys dated June 4, 2021" and filed in Berkshire Middle District Registry of Deeds, Plat S-21.
5. Vertical Datum is assumed. A temporary benchmark was established on site, TBM, Railroad Spike set in utility pole 34/33, Elevation = 65.19'.
6. The locations and information about underground pipes, utilities or other structures are compiled from available record data and visible field evidence and are not represented as being exact or complete. Prior to beginning excavation, the excavator shall give adequate advance notice to the Dig Safe Center, the municipal and/or state Public Works Department, and private utility companies, to allow for field location of facilities in the vicinity.
7. If Contractor observes any field conditions which vary significantly from what is shown on these plans, the contractor shall immediately notify the Owner and Engineer for resolution of the conflicting information.
8. The Contractor shall record tie measurements, depths, dimensions, materials, field conditions and other pertinent data about all underground pipes, utilities and structures encountered during the work, both existing and constructed. Contractor shall submit Record drawings with this information to the Owner and Engineer prior to completion of the work.
9. Contractor shall immediately report any damage to existing pipes, utilities, or structures to the Owner and Engineer, and obtain directions as to repair, replacement or abandonment.

CONSTRUCTION-PHASE MEASURES FOR CONTROL OF SEDIMENT AND EROSION AND PROTECTION OF WETLANDS

1. Do not disturb existing vegetated areas far in advance of construction. Limit disturbance only to the extent and duration required for imminent construction activities. Retain and protect natural vegetation and vegetative filter strips wherever possible.
2. Temporary vegetation or a heavy mat of wood chips shall be established on all earth stockpiles or stripped areas which will be bare for more than two months and less than 12 months. Such vegetation shall consist of a commercial conservation seed mixture with a high percentage of annual rye grass. Permanent herbaceous cover shall be established on areas which would be bare more than 12 months.
3. A heavy mat of straw mulch, wood chips, erosion control netting, mesh or blanket matting shall be used on disturbed areas if vegetation cannot be established due to season or on-going construction process, or if otherwise required.
4. Silt fence or carefully positioned staked straw bales shall be installed along the downhill edge of disturbed earthwork areas where required to control erosion and sedimentation.
5. Water courses, including intermittent drainage swales, shall be protected from siltation by silt fence barriers or carefully positioned staked straw bale check dams.
6. Sediment traps shall be constructed downhill of disturbed areas and upstream of watercourses and/or wetlands. Trapped sediments shall be removed from the basins during the construction period before they become 50% full to prevent sediment from being transported downhill. Dispose of sediments in on-site upland disposal areas, properly graded, seeded and mulched.
7. Permanent drainage control structures shall be installed as early as possible in the construction process. Drains shall be provided with drain inlet sediment filters and/or traps.
8. Do not fuel construction equipment or store fuel or other potential contaminants within 100 feet of water courses or wetlands.
9. Precast concrete shall be washed down at the manufacturer's plant. Cast-in-place concrete within 100 feet of watercourses/wetlands shall be placed so as to minimize runoff of stormwater from fresh concrete, through use of sumps, diversions, etc. Concrete trucks and equipment contaminated with fresh concrete shall not be washed down within 100 feet of wetlands.
10. Strictly adhere to all general and special conditions of any Wetlands Protection Act Permits, including plans, details, construction sequencing outline, and other applicable requirements.

SITE DATA

Data provided by Becket, MA
Zoning Bylaw
Amended: March 11, 2019
Zone: Residential/Agricultural
Dimensional Requirements:

Min. Lot Dimensions	
Area	= 2 Acres
Min. Lot Frontage	= 200 FT
Min. Lot Width	= 160 FT
Min. Setbacks:	
Front	= 40 FT
Side	= 20 FT
Rear	= 20 FT
Max. Building Height	= 40 FT

SITE DATA

Data provided by Becket, MA
Zoning Bylaw
Amended: March 11, 2019
Zone: Indoor Cultivation
Dimensional Requirements:

Min. Lot Dimensions	
Area	= 2 Acres
Min. Setbacks:	
Front	= 50 FT
Side	= 20 FT
Rear	= 20 FT

SITE DATA

Data provided by Becket, MA
Zoning Bylaw
Amended: March 11, 2019
Zone: Outdoor Cultivation
Dimensional Requirements:

Min. Lot Dimensions	
Area	= 5 Acres
Min. Setbacks:	
Front	= 100 FT
Side	= 100 FT
Rear	= 50 FT

General Notes About Compiled Site Plan Base Map:

Portions of the base map is compiled from available sources and is not the result of a recent field survey. Compiled information includes MassGIS (Office of Geographic and Environmental Information, Commonwealth of Massachusetts Office of Environmental Affairs) Aerial Photos, FEMA flood maps, and other published sources. Property lines are compiled from deeds, record surveys and assessors mapping. Utilities are from available plans, records and direct observation.

All compiled information is approximate only and is subject to field verification and change.

INDEX

LEGEND

ADA = AMERICANS WITH DISABILITIES ACT
APPROX = APPROXIMATE
DS = DOOR SILL
PVC = POLYVINYL CHLORIDE
C.I.P. = CAST IRON PIPE
C.M.P. = CORRUGATED METAL PIPE
ELEV = ELEVATION
INV = INVERT
LP = LIGHT POLE

● IRON PIPE FOUND
⊕ FENCE POST
■ BOUND FOUND
BENCHMARK
▲ WETLAND FLAG
CONIFEROUS TREE
DECIDUOUS TREE

1' EXISTING CONTOUR LINE
1100 5' EXISTING CONTOUR LINE
APPROXIMATE PROPERTY LINE
EDGE OF WOODS
EDGE OF ASPHALT
EDGE OF GRAVEL
X FENCE
RETAINING WALL
WETLAND BUFFER ZONE
FLAGGED WETLAND BOUNDARY
D DRAINAGE LINE
E APPROX. ELECTRIC
W APPROX. WATER SUPPLY
G APPROX. GAS SUPPLY
T APPROX. TELEPHONE
S APPROX. SEWER
SFM APPROX. SEWER FORCE MAIN

EARTHWORK, GRADING AND ACCESSIBILITY NOTES:

GENERAL

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ALL EXCAVATIONS AND OTHER SITEWORK COMPLY WITH CURRENT OSHA STANDARDS AND TRENCH SAFETY REGULATIONS.
2. AREAS BEYOND THE LIMITS OF PROPOSED WORK THAT ARE DISTURBED BY CONTRACTOR'S WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
3. ACCESS TO THE SITE FOR EMERGENCY VEHICLES MUST BE PRESERVED AT ALL TIMES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING OF TRENCHES AND EXCAVATIONS DURING CONSTRUCTION.
5. ALL DEMOLISHED MATERIALS, DEBRIS, PAVEMENT, CURBING, TREES AND STUMPS DESIGNATED FOR REMOVAL, SURPLUS MATERIALS, ETC, SHALL BE HANDLED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS EXPENSE, AT IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS.
6. ALL WORK WITHIN ANY PUBLIC RIGHT OF WAY (I.E. MUNICIPAL, STATE, ETC) SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE AGENCY HAVING JURISDICTION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED WORK PERMITS FOR WORK WITHIN A PUBLIC WAY.
8. ALL WORK INCLUDED IN THE CONDITIONS OF APPROVAL FOR LOCAL, STATE AND/OR FEDERAL PERMITS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONFORMED TO THROUGHOUT CONSTRUCTION.
9. UNLESS OTHERWISE NOTED, ALL MATERIALS AND WORK METHODS SHALL COMPY WITH THE MASS. DOT STANDARD SPECIFICATIONS.

GRADING:

1. CONTRACTOR SHALL ASSURE THAT THERE IS POSITIVE SURFACE DRAINAGE AWAY FROM BUILDINGS IN ALL AREAS.
2. REFER TO AND COORDINATE THE SITEWORK WITH THE ARCHITECTURAL PLANS FOR GRADING AROUND BUILDINGS, RAMPS, STEPS, DOORWAYS, FOUNDATIONS, AND RELATED CONSTRUCTION.

ACCESSIBLITY:

1. CONTRACTOR SHALL PERFORM THE SITEWORK SO AS TO COMPLY WITH THE APPLICABLE REQUIREMENTS OF MASS. ARCHITECTURAL ACCESS BOARD, 521 CMR.
2. EXCEPT WHERE NOTED, IT IS THE DESIGN INTENTION THAT EXTERIOR DOORWAYS SHALL BE ACCESSIBLE AND THAT WALKWAYS APPROACHING BUILDINGS SHALL BE ACCESSIBLE.
3. UNLESS OTHERWISE NOTED OR PERMITTED, ACCESSIBLE WALKWAYS SHALL BE CONSTRUCTED WITH A MAXIMUM RUNNING SLOPE OF 5.0% (LAYOUT TO SLOPE OF 4.5% TO ACCOUNT FOR CONSTUCTION TOLERANCES), AND A MAXIMUM CROSS PITCH OF 2.0% (LAYOUT TO 1.5% FOR CONSTRUCTION TOLERANCES.
4. PER 521 CMR 22.3.1 (EXCEPTION), FOR STREETS AND WAYS WHICH HAVE NATURAL TOPOGRAPHY IN EXCESS OF 5%, SIDEWALKS MAY BE PERMITTED TO HAVE RUNNING SLOPES IN EXCESS OF 5% WITHOUT REQUIRING A RAMP.
5. CURB RAMPS SHALL COMPLY WITH THE APPLICABLE MASS. AAB (521 CMR 21 ET SEQ) REGULATIONS. WHERE APPLICABLE, CURB RAMPS SHALL ALSO CONFORM TO MASS. DOT STANDARDS.
6. UNLESS OTHERWISE NOTED, HANDICAP PARKING SPACES AND ACCESS AISLES SHALL BE CONSTRUCTED WITH A MAXIMUM SLOPE IN ANY DIRECTION OF 2.0% (521 CMR 23.4). LAYOUT SHOULD BE TO SLOPE OF 1.5% TO ALLOW FOR CONSTRUCTION TOLERANCES.
7. HANDICAP RAMPS SHALL BE CONSTRUCTED TO COMPLY WITH 521 CMR 24. THE MAXIMUM SLOPE SHALL BE 1:12 (8.33%) WITHOUT ANY ALLOWANCE FOR EXCEEDANCE.) THE MAXIMUM RISE OF ANY RUN SHALL NOT EXCEED 30" AND THE MAXIMUM LENGTH OF ANY RUN BETWEEN LANDINGS SHALL NOT EXCEED 30'.
8. THE SPOT GRADES SHOWN ON THE PLANS ARE PROVIDED TO GIVE GUIDANCE TO THE CONTRACTOR ABOUT THE DESIGN INTENT FOR ACCESSIBILITY. CONTRACTOR SHALL LAYOUT AND CONSTRUCT THE WORK TO COMPLY WITH THE MASS AAB REQUIREMENTS. ANY DEVIATIONS NOTED IN THE LAYOUT THAT WOULD AFFECT ACCESSIBLITY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND CIVIL ENGINEER.
9. ANY PORTION OF THE CONSTRUCTED WORK WHICH EXCEEDS THE MAXIMUM SLOPES SPECIFIED IN 521 CMR WILL BE CONSIDERED NON-COMPLIANT; THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REMEDIATING THE NON-COMPLIANT WORK TO BRING IT WITHIN THE MASS. AAB REQUIREMENTS.

GENERAL NOTES REGARDING SITE UTILITIES:

1. PRIOR TO CONSTRUCTION, SITEWORK CONTRACTOR SHALL NOTIFY THE DIG SAFE CENTER, PLUS THE MUNICIPAL AND/OR STATE PUBLIC WORKS DEPARTMENT AND PRIVATE UTILITIES TO ALLOW FOR THEM TO FIELD LOCATE THE FACILITIES IN THE VICINITY OF THE WORK. UPDATE THE NOTIFICATIONS TO DIG SAFE, ETC AS REQUIRED DURING CONSTRUCTION
2. LOCATE AND PROTECT ALL UTILITIES AND STRUCTURES TO REMAIN. LOCATE AND PROPERLY DECOMMISSION EXISTING UTILITIES TO BE DISCONTINUED. ANY UNREPORTED UNDERGROUND UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER FOR A DETERMINATION ABOUT WHETHER OR NOT THEY SHOULD BE REPAIRED OR MAY BE DECOMMISSIONED.
3. COORDINATE SITEWORK WITH OTHER TRADES.
4. COORDINATE EXACT LOCATION, ELEVATION & SIZE OF ALL FOUNDATION PENETRATIONS FOR ALL UTILITIES WITH CONTRACTORS: M/E/P/FP/T
5. REFER TO PLANS AND SPECIFICATIONS FOR REQUIREMENTS FOR EXPLORATORY TEST PITS AND OTHER PRE-CONSTRUCTION EXPLORATIONS.
6. PIPING SUBJECT TO PLUMBING CODE: SITEWORK CONTRACTOR SHALL INSTALL SEWER, WATER AND BUILDING DRAINAGE SERVICE LINES SUBJECT TO THE MASS. STATE PLUMBING CODE TO WITHIN TEN FEET (10') FROM THE BUILDING FOUNDATION. PLUMBING CONTRACTOR SHALL MAKE THE FINAL INSTALLATION AND CONNECTION OF THE SEWER, WATER AND BUILDING DRAINAGE SERVICE LINES WITHIN THE FINAL TEN FEET TO THE BUILDING FOUNDATION. SITEWORK CONTRACTOR SHALL EXCAVATE, BED AND BACKFILL THE TRENCHES TO THE BUILDING FOUNDATION FOR THIS PIPING. (NOTE: BUILDING DRAINAGE LINES INCLUDES STORM DRAIN LINES SUCH AS ROOF LEADERS THAT ORIGINATE INSIDE THE BUILDING; IT DOES NOT INCLUDE FOUNDATION DRAINS, ROOF LEADERS FROM DOWNSPOUTS THAT ORIGINATE OUTSIDE THE BUILDING, OR SURFACE DRAINS OUTSIDE THE BUILDING, WHICH ARE SITEWORK COMPONENTS TO BE INSTALLED BY THE SITEWORK CONTRACTOR.)
7. FIRE PROTECTION PIPING SUBJECT TO FIRE CODE: SITEWORK AND FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE INSTALLATION AND TESTING UNDER NFPA STDS (NFPA24, ETC) OF THE FIRE LINES AND APPURTENANCES FROM THE WATER MAIN TO THE BUILDING. SITEWORK CONTRACTOR SHALL EXCAVATE, BED AND BACKFILL THE TRENCHES AND FURNISH THE PIPING TO THE BUILDING FOUNDATION FOR THIS PIPING.

7A. ANY FIRE SERVICE MAIN INSTALLATION AND TESTING WORK SUBJECT TO NFPA-24 SHALL BE WITNESSED BY THE LICENSED FIRE PROTECTION CONTRACTOR. UPON COMPLETION OF THE WORK INCLUDING FLOW AND PRESSURE TESTS, SITEWORK CONTRACTOR SHALL SUBMIT THE COMPLETED "CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING."

8. COORDINATE SITEWORK WITH UTILITY COMPANIES: ELECTRIC, COMMINICATIONS, WIFI, TV, GAS, ETC.
9. COORDINATE WITH ELECTRICAL CONTRACTOR (EC) FOR SITE LIGHTING: EXCAVATE, BED AND BACKFILL FOR CONDUITS, HANDHOLES, VAULTS, AND APPURTENANCES (FURNISHED AND INSTALLED BY EC); FURNISH AND INSTALL PRECAST CONC. POLE BASES WITH EMBEDDED ANCHOR BOLTS AND SWEEPS PROVIDED BY EC; ETC.
10. COORDINATE WITH MEP CONTRACTOR (MC) FOR CAST-IN-PLACE CONC PADS FOR TRANSFORMER, GENERATOR, CONDENSERS, AIR HANDLERS, ETC; MC TO SUPPLY ANY EMBEDDED ITEMS TO SITEWORK CONTRACTOR FOR INSTALLATION.
11. STORM DRAINAGE, EROSION AND SEDIMENTATION CONTROL, AND WETLANDS PROTECTION: REFER TO EROSION AND SEDIMENTATION CONTROL PLANS AND SPECIFICATIONS. PERFORM ALL SITEWORK AS REQUIRED TO REMAIN IN COMPLIANCE THROUGHOUT CONSTRUCTION AND IN ACCORDANCE WITH APPLICABLE PERMITS, INCLUDING BUT NOT LIMITED TO WETLANDS PROTECTION ACT, AND CONSTRUCTION GENERAL PERMIT UNDER THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) ISSUED BY EPA.
12. WATER AND SEWER LINES SHALL BE SEPARATED A MINIMUM OF 10' HORIZONTALLY AND A MINIMUM OF 18" VERTICALLY AT CROSSINGS. SEE DETAIL.

RECORD OWNER

HAPPY MEDIUM LLC

BOOK 6944 PAGE 62

PARCEL ID:022/416.F-0010-0000.0

TETRAHYDRA AGTEK LLC
123B SEAVIEW AVE
SOUTH YARMOUTH, MA 02664

COMMONWEALTH OF MASSACHUSETTS
STEVEN A. MACK
CIVIL
No. 41744
REGISTERED
PROFESSIONAL CIVIL ENGINEER

1/27/2022

NO.	DATE	REVISION/ISSUE	BY
	1/25/22	Issue for Special Permit Supplement Only	

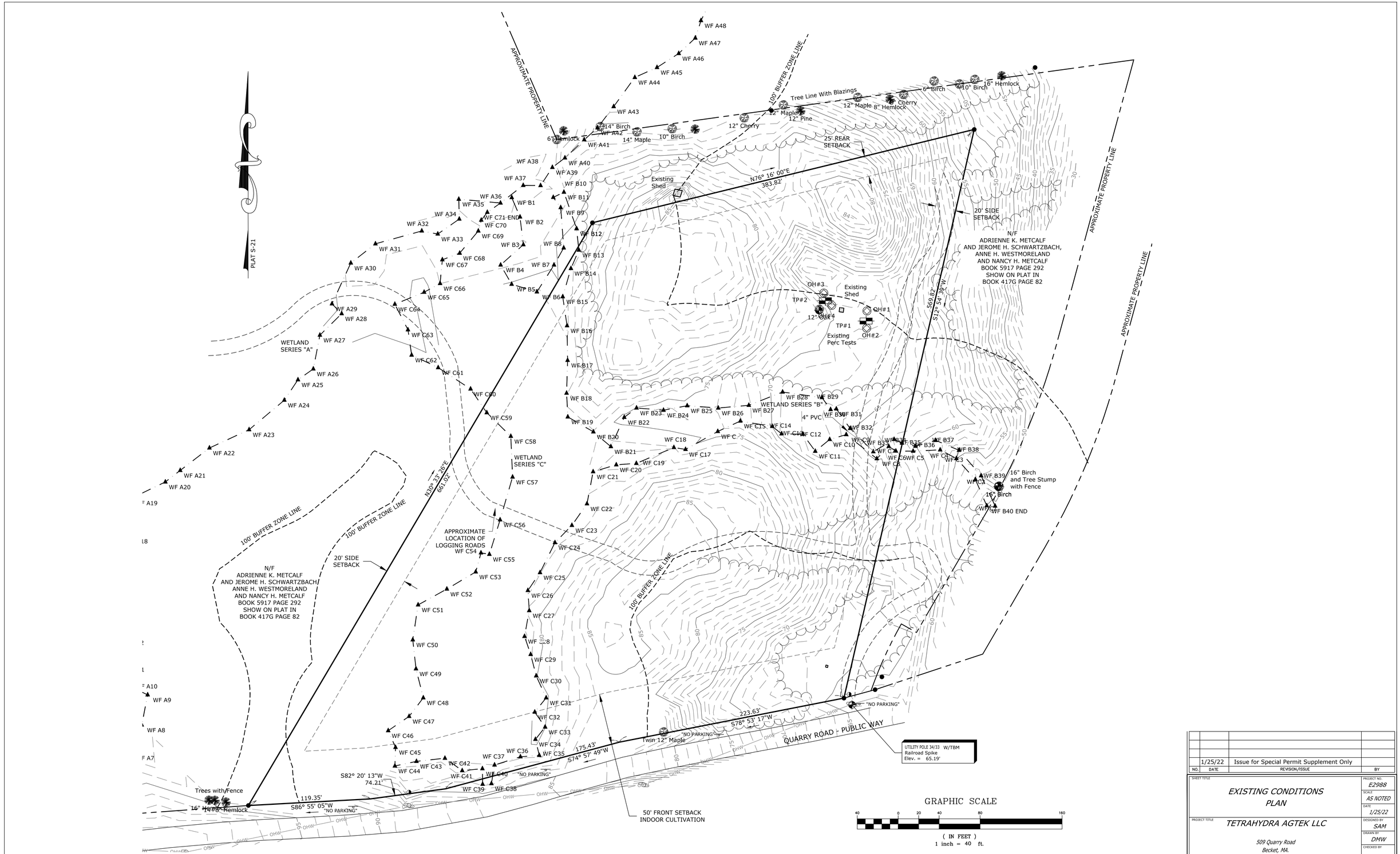
SHEET TITLE: COVER SHEET AND SHEET INDEX

PROJECT TITLE: TETRAHYDRA AGTEK LLC
509 Quarry Road
Becket, MA.

PROJECT NO.: E2988
SCALE: AS NOTED
DATE: 1/25/22
DESIGNED BY: SAM
DRAWN BY: DMW
CHECKED BY:
SHEET NO.: C-0
OF ___ SHEETS
DEP'S NO.: E2988002

FORESIGHT LAND SERVICES — ENGINEERING SURVEYING PLANNING

FORESIGHT LAND SERVICES, INC.
1496 WEST HOUSATONIC STREET - PITTSFIELD, MA 01201
TEL: (413) 499-1580 FAX: (413) 499-3307 WWW.FORESIGHTLAND.COM



NO.	DATE	REVISION/ISSUE	BY
	1/25/22	Issue for Special Permit Supplement Only	

SHEET TITLE: *EXISTING CONDITIONS PLAN*

PROJECT TITLE: *TETRAHYDRA AGTEK LLC*

509 Quarry Road
Becket, MA.

PROJECT NO.: E2988
SCALE: AS NOTED
DATE: 1/25/22
DESIGNED BY: SAM
DRAWN BY: DMW
CHECKED BY:
SHEET NO.: C-1
OF SHEETS
CADFILE NO.: E2988D02

FORESIGHT LAND SERVICES
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PLAT 5-21

APPROXIMATE PROPERTY LINE

100' BUFFER ZONE LINE

Tree Line With Blazings

6" Hemlock

14" Birch

14" Maple

10" Birch

12" Cherry

12" Maple

12" Pine

8" Hemlock

Cherry

6" Birch

10" Birch

16" Hemlock

WF A41 WF A42 WF A43 WF A44 WF A45 WF A46 WF A47 WF A48

WF A40 WF A39 WF A38 WF A37 WF A36 WF A35 WF A34 WF A33 WF A32 WF A31 WF A30 WF A29 WF A28 WF A27 WF A26 WF A25 WF A24 WF A23 WF A22 WF A21 WF A20

WF B1 WF B2 WF B3 WF B4 WF B5 WF B6 WF B7 WF B8 WF B9 WF B10 WF B11 WF B12 WF B13 WF B14 WF B15 WF B16 WF B17 WF B18 WF B19 WF B20 WF B21 WF B22 WF B23 WF B24 WF B25 WF B26 WF B27 WF B28 WF B29 WF B30 WF B31 WF B32 WF B33 WF B34 WF B35 WF B36 WF B37 WF B38 WF B39 WF B40 END

WF C1 WF C2 WF C3 WF C4 WF C5 WF C6 WF C7 WF C8 WF C9 WF C10 WF C11 WF C12 WF C13 WF C14 WF C15 WF C16 WF C17 WF C18 WF C19 WF C20 WF C21 WF C22 WF C23 WF C24 WF C25 WF C26 WF C27 WF C28 WF C29 WF C30 WF C31 WF C32 WF C33 WF C34 WF C35 WF C36 WF C37 WF C38 WF C39 WF C40 WF C41 WF C42 WF C43 WF C44 WF C45 WF C46 WF C47 WF C48 WF C49 WF C50 WF C51 WF C52 WF C53 WF C54 WF C55 WF C56 WF C57 WF C58 WF C59 WF C60 WF C61 WF C62 WF C63 WF C64 WF C65 WF C66 WF C67 WF C68 WF C69 WF C70 WF C71 END

WETLAND SERIES "A"

WETLAND SERIES "B"

WETLAND SERIES "C"

Existing Shed

25' REAR SETBACK

50' REAR SETBACK OUTDOOR CULTIVATION

N76° 16' 00"E 383.82'

20' SIDE SETBACK

100' SIDE SETBACK OUTDOOR CULTIVATION

OUTDOOR GROW AREA 17,500 S.F.±

N/F
ADRIENNE K. METCALF
AND JEROME H. SCHWARTZBACH,
ANNE H. WESTMORELAND
AND NANCY H. METCALF
BOOK 5917 PAGE 292
SHOW ON PLAT IN
BOOK 417G PAGE 82

Existing Shed

OH#1

OH#2

TP#1

Existing Perc Tests

569.82'

S12° 54' 54"W

20'

PROPOSED PERVIOUS PAVEMENT DRIVEWAY

PROPOSED OPEN BOTTOM CULVERT CONFORMING TO MASSACHUSETTS STREAM CROSSING STANDARDS

PROPOSED EASEMENT AREA FOR PARKING, DRIVEWAY, FENCING, ETC.

4" PVC

302.77'

M30° 35' 26"E 661.02'

165.8'

9'

20'

16" Birch and Tree Stump with Fence

16" Birch

ENCLOSED DUMPSTER LOCATION W/ CONC. PAD AND FENCE

PAVED SIDEWALK

PROPOSED BUILDING (31,310 SQ. FT. FOOTPRINT) FF = 73.5'

PROPOSED 19 SPACE PARKING AREA

PROPOSED CONCRETE BLOCK RETAINING WALL W/ GUARDRAIL AND FENCE FOR PROTECTION

25'

PROPOSED SECURE ACCESS GATE

"NO PARKING"

PROPOSED PERMANENT 30' PAVED APRON W/ CONSTRUCTION ACCESS TRACKING PAD DURING CONSTRUCTION

6' TALL SCREENING FENCE

PROPOSED CANOPY TREES, 30' MAX. SPACING

50'

223.63'

S78° 53' 17"W

Twin 12" Maple

135.43'

S74° 57' 49"W

S82° 20' 13"W 74.21'

Trees with Fence

16" Hardy Remlock

S86° 55' 05"W 9.33'

50' FRONT SETBACK INDOOR CULTIVATION

QUARRY ROAD - PUBLIC WAY

OHW

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

NO.	DATE	REVISION/ISSUE	BY
	1/25/22	Issue for Special Permit Supplement Only	

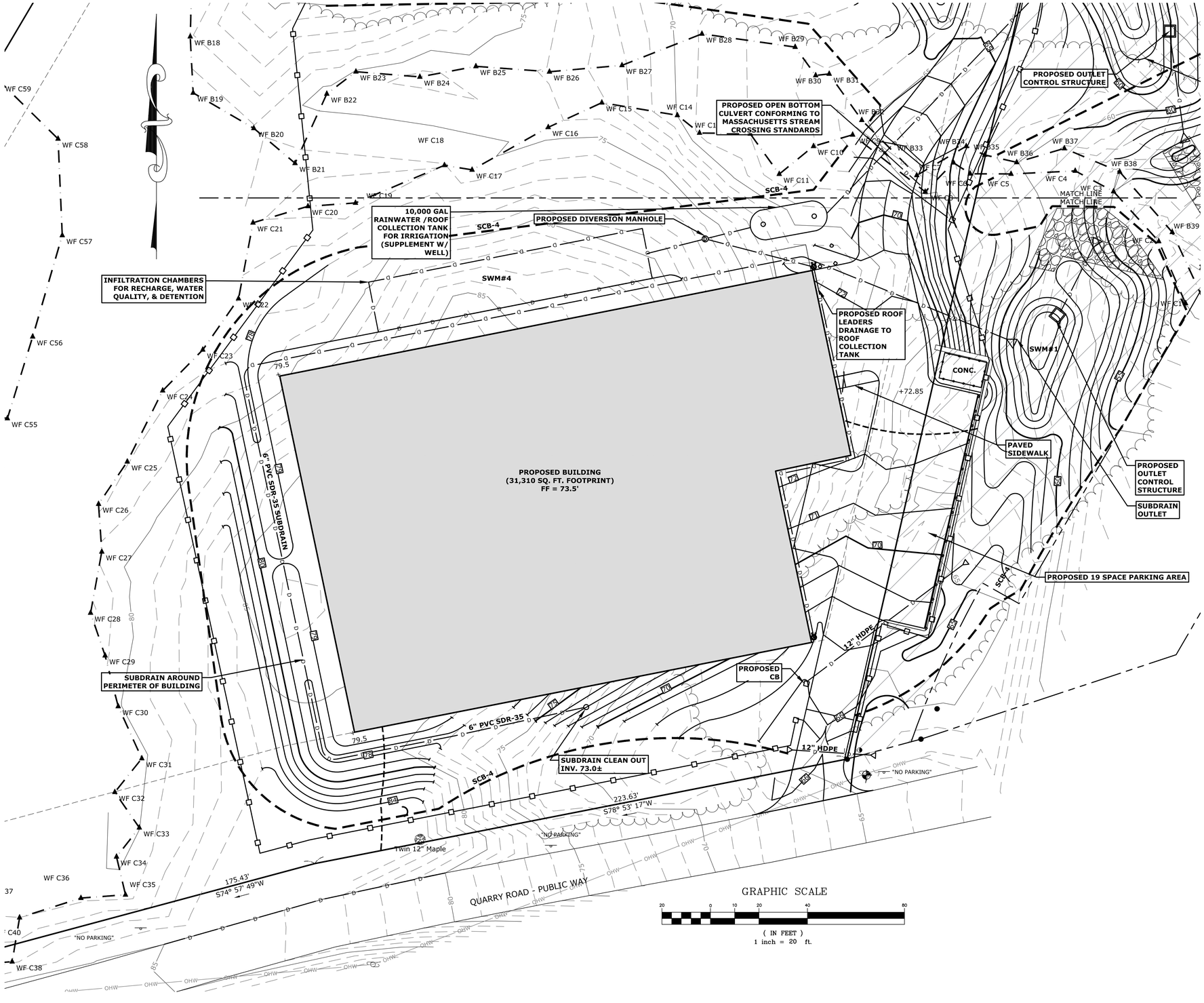
SHEET TITLE: PROPOSED SITE PLAN

PROJECT TITLE: TETRAHYDRA AGTEK LLC

509 Quarry Road
Becket, MA.

PROJECT NO.: E2988
SCALE: AS NOTED
DATE: 1/25/22
DESIGNED BY: SAM
DRAWN BY: DMW
CHECKED BY:
SHEET NO.: C-2 OF ____ SHEETS
DRAWING No.: E2988D02

FORESIGHT LAND SERVICES
ENGINEERING SURVEYING PLANNING
FORESIGHT LAND SERVICES, INC.
1496 WEST HOUSATONIC STREET - PITTSFIELD, MA 01201
TEL: (413) 499-1580 FAX: (413) 499-3307 WWW.FORESIGHTLAND.COM



NOTE:
USE STORMWATER MANAGEMENT AREAS AS TEMPORARY SEDIMENT TRAPS DURING CONSTRUCTION. CONTRACTOR SHALL INSTALL ADDITIONAL CONSTRUCTION SEDIMENT TRAPS DURING CONSTRUCTION AS REQUIRED TO CONTROL EROSION.

NO.	DATE	REVISION/ISSUE	BY
	1/25/22	Issue for Special Permit Supplement Only	

SHEET TITLE: *GRADING, DRAINAGE AND EROSION CONTROL PLAN 1*

PROJECT TITLE: *TETRAHYDRA AGTEK LLC*

509 Quarry Road
Becket, MA.

PROJECT NO.: E2988
SCALE: AS NOTED
DATE: 1/25/22
DESIGNED BY: SAM
DRAWN BY: DMW
CHECKED BY:
SHEET NO.: C-3
OF ___ SHEETS
CAD FILE NO.: E2988D02

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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

APPROXIMATE PROPERTY LINE

WF A47 WF A46 WF A45 WF A44 WF A43 WF A42 WF A41 WF A40 WF A39 WF A38 WF B10 WF B11 WF B9 WF B12 WF B13 WF B14 WF B15 WF B16 WF B17 WF B18 WF B19 WF B20 WF B21 WF B22 WF B23 WF B24 WF B25 WF B26 WF B27 WF B28 WF B29 WF B30 WF B31 WF B32 WF B33 WF B34 WF B35 WF B36 WF B37 WF B38 WF B1 WF B2 WF B5 WF B6 WF B7 WF B8

WF C1 WF C2 WF C3 WF C4 WF C5 WF C6 WF C7 WF C8 WF C9 WF C10 WF C11 WF C12 WF C13 WF C14 WF C15 WF C16 WF C17 WF C18 WF C19

6" Hemlock
14" Birch
14" Maple
10" Birch
12" Cherry
12" Maple
12" Pine
12" Maple
8" Hemlock
8" Cherry
6" Birch
10" Birch
16" Hemlock

SCB-4

N76° 16' 00"E
383.82'

S12° 54' 39"W
560.82'

OUTDOOR GROW AREA
17,500 S.F.±

SWM#3

SWM#2

PROPOSED OUTLET CONTROL STRUCTURE

PROPOSED OUTLET CONTROL STRUCTURE

MATCH LINE

MATCH LINE

NO.	DATE	REVISION/ISSUE	BY
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SHEET TITLE
GRADING, DRAINAGE AND EROSION CONTROL PLAN 2

PROJECT TITLE
TETRAHYDRA AGTEK LLC
509 Quarry Road
Becket, MA.

PROJECT NO. E2988
SCALE AS NOTED
DATE 1/25/22
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CHECKED BY

FORESIGHT LAND SERVICES
ENGINEERING SURVEYING PLANNING

SHEET NO. C-4
OF SHEETS

FORESIGHT LAND SERVICES, INC.
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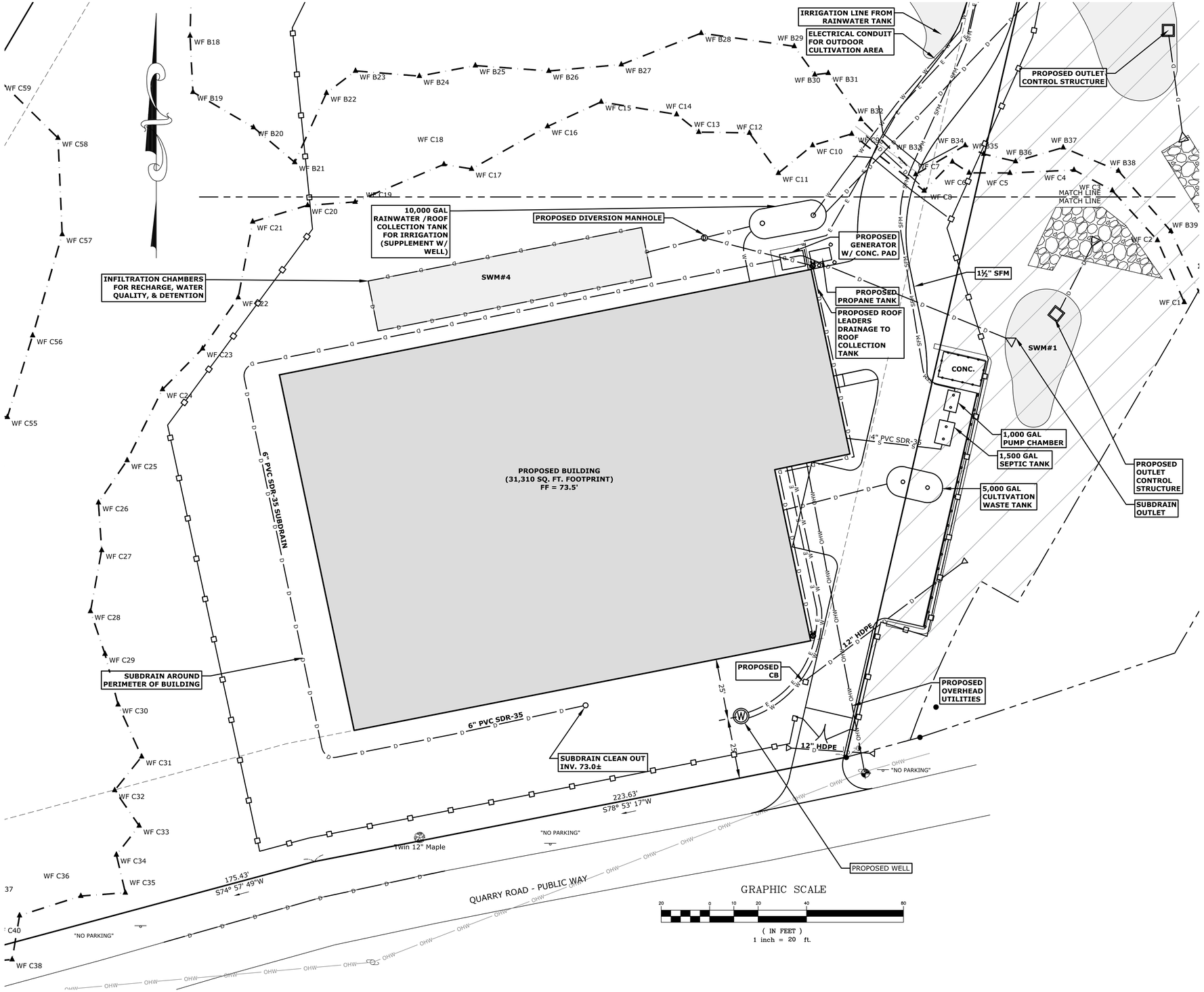
TEL (413) 499-1580 FAX (413) 499-3207 WWW.FORESIGHTLAND.COM

PATH NO. E2988D02



NO.	DATE	REVISION/ISSUE	BY
	1/25/22	Issue for Special Permit Supplement Only	

SHEET TITLE: *UTILITY PLAN 1*

PROJECT TITLE: *TETRAHYDRA AGTEK LLC*

509 Quarry Road
Becket, MA.

PROJECT NO.: E2988
SCALE: AS NOTED
DATE: 1/25/22
DESIGNED BY: SAM
DRAWN BY: DMW
CHECKED BY:

FORESIGHT LAND SERVICES — ENGINEERING SURVEYING PLANNING

SHEET NO.: C-5
OF SHEETS

FORESIGHT LAND SERVICES, INC.
1496 West Housatonic Street - Pittsfield, MA 01201
Tel: (413) 499-1560 Fax: (413) 499-3307 www.foresightland.com

CAD/File no.: E2988D02

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

APPROXIMATE PROPERTY LINE

WF A47
WF A46
WF A45
WF A44
WF A43
WF A42
WF A41
WF A40
WF A39
WF B10
WF B11
WF B9
WF B12
WF B13
WF B14
WF B15
WF B16
WF B17
WF B18
WF B19
WF B20
WF B21
WF B22
WF B23
WF B24
WF B25
WF B26
WF B27
WF B28
WF B29
WF B30
WF B31
WF B32
WF B33
WF B34
WF B35
WF B36
WF B37
WF B38
WF B2
WF B8
WF B7
B5
WF B6
A38
B1
WF C1
WF C2
WF C3
WF C4
WF C5
WF C6
WF C7
WF C8
WF C9
WF C10
WF C11
WF C12
WF C13
WF C14
WF C15
WF C16
WF C17
WF C18
WF C19
WF C20

6" Hemlock
14" Birch
14" Maple
10" Birch
12" Cherry
12" Maple
12" Pine
12" Maple
8" Hemlock
8" Cherry
6" Birch
10" Birch
16" Hemlock

N76° 16' 00"E
383.82'

S12° 54' 39"W
560.28'

IRRIGATION PLAN BY OTHERS

OUTDOOR GROW AREA
17,500 S.F.±

PROPOSED SEPTIC TRENCHES

IRRIGATION LINE

ELECTRICAL CONDUIT

SWM#2

SWM#3

PROPOSED OUTLET CONTROL STRUCTURE

IRRIGATION LINE FROM RAINWATER TANK

ELECTRICAL CONDUIT FOR OUTDOOR CULTIVATION AREA

PROPOSED OUTLET CONTROL STRUCTURE

10,000 GAL

MATCH LINE
MATCH LINE

NO.	DATE	REVISION/ISSUE	BY
	1/25/22	Issue for Special Permit Supplement Only	

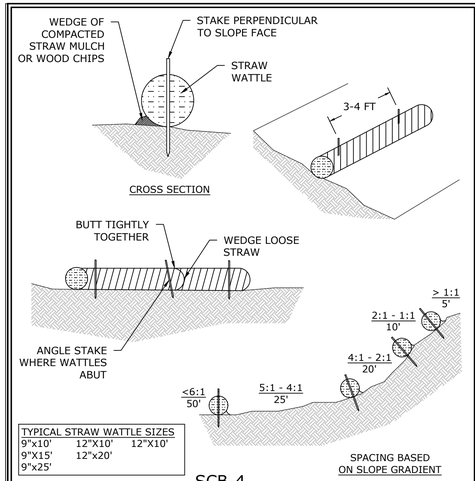
SHEET TITLE: UTILITY PLAN 2

PROJECT TITLE: TETRAHYDRA AGTEK LLC
509 Quarry Road
Becket, MA.

PROJECT NO.: E2988
SCALE: AS NOTED
DATE: 1/25/22
DESIGNED BY: SAM
DRAWN BY: DMW
CHECKED BY:
SHEET NO.: C-6
OF ____ SHEETS
DRAWING NO.: E2988D02

FORESIGHT LAND SERVICES
ENGINEERING SURVEYING PLANNING

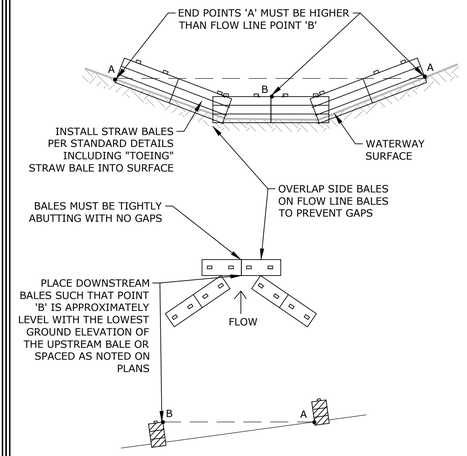
FORESIGHT LAND SERVICES, INC.
1496 WEST HOUSATONIC STREET - PITTSFIELD, MA 01201
TEL: (413) 499-1580 FAX: (413) 499-3307 WWW.FORESIGHTLAND.COM



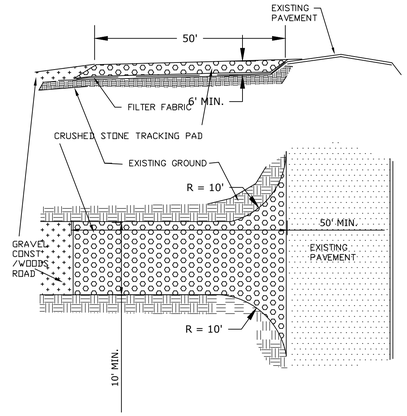
TYPICAL STRAW WATTLE SIZES		
9"x10'	12"X10'	12"X10'
9"X15'	12"x20'	
9"x25'		

SCB-4

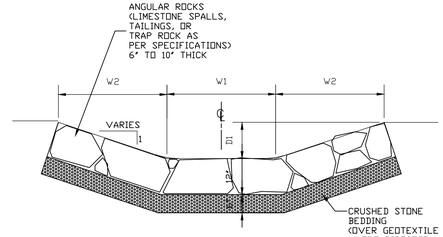
SCB -4 | TYPICAL STRAW WATTLE INSTALLATION | REV# 6



STRAW BALE CHECK DAM | 32712C 11/2/15 REV #2

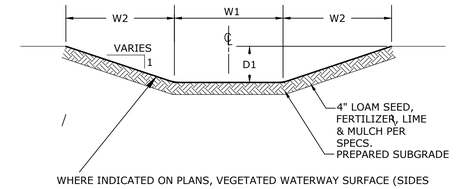


STABILIZED CONSTRUCTION ENTRANCE | 32709A 1/20/93 REV# 1



SIDESLOPE	DEPTH "D1"	BOTTOM WIDTH "W1"	BACKSLOPE WIDTH "W2"
2 : 1	12" 12"	2' 3'	2' 2'
3 : 1	12" 12"	2' 3'	3' 3'
4 : 1	12" 12"	2' 3'	4' 4'

STONE-LINED WATERWAY | 32105A 4/2/93 REV# 2

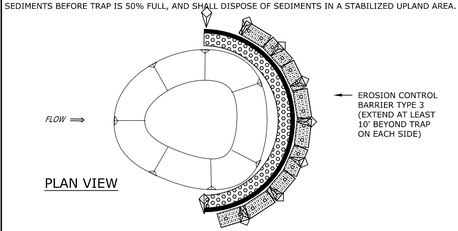


WHERE INDICATED ON PLANS, VEGETATED WATERWAY SURFACE (SIDES AND BOTTOM) SHALL BE REINFORCED WITH GEOTEXTILE: NORTH AMERICAN GREEN # C-125 OR APPROVED EQUAL

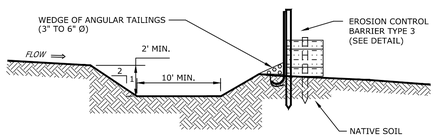
SIDESLOPE	DEPTH "D1"	BOTTOM WIDTH "W1"	BACKSLOPE WIDTH "W2"
2 : 1	12" 12"	2' 3'	2' 2'
3 : 1	12" 12"	2' 3'	3' 3'
4: 1	12" 12"	2' 3'	4' 4'

VEGETATED WATERWAY | 32105B 7/18/2011 REV# 2

SEDIMENT TRAPS SHALL BE INSTALLED DURING THE INITIAL PHASE OF SITE PREPARATION AND BEFORE EARTHMOVING OPERATIONS BEGIN. SITEWORK CONTRACTOR IS RESPONSIBLE FOR INSPECTING ALL SEDIMENT TRAPS AND OTHER EROSION CONTROLS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL, AND MAINTAINING THE MEASURES TO ENSURE PROPER FUNCTION. CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENTS BEFORE TRAP IS 50% FULL, AND SHALL DISPOSE OF SEDIMENTS IN A STABILIZED UPLAND AREA.



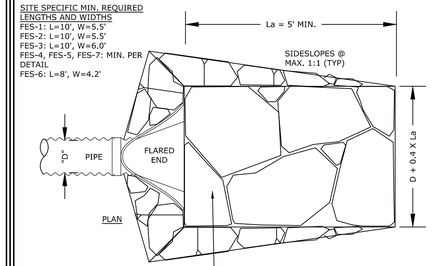
PLAN VIEW

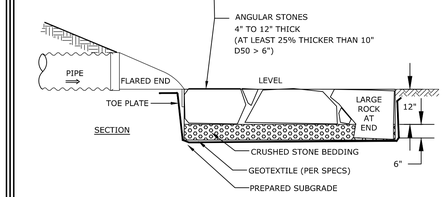


CROSS SECTION

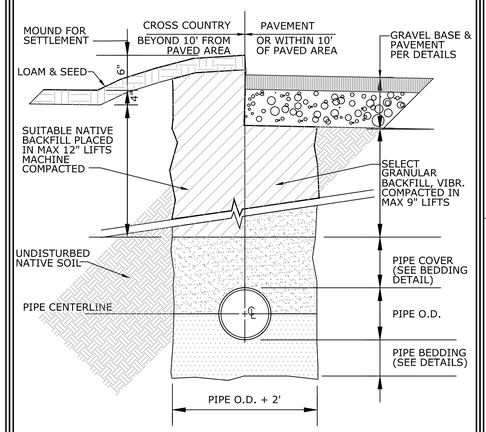
CONSTRUCTION SEDIMENT TRAP | 32705A 1/20/93 REV# 1

SITE SPECIFIC MIN. REQUIRED LENGTHS AND WIDTHS
FES-1: L=10', W=5.5'
FES-2: L=10', W=5.5'
FES-3: L=10', W=6.0'
FES-4, FES-5, FES-7: MIN. PER DETAIL
FES-6: L=8', W=4.2'

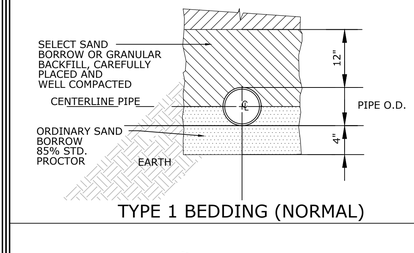




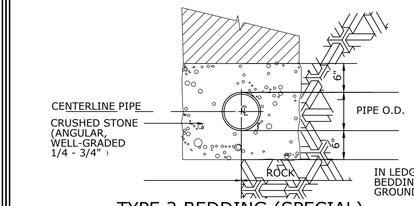
STONE DISCHARGE APRON | 32106A 4/2/93 REV# 2



TRENCH CROSS SECTION | 34003A 7/6/93 REV# 0



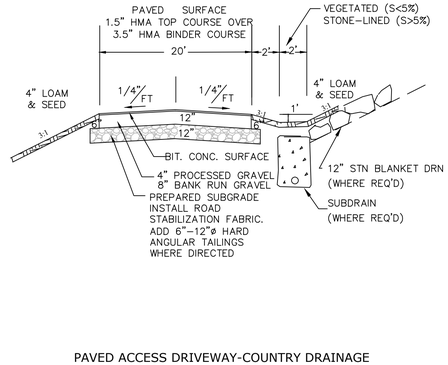
TYPE 1 BEDDING (NORMAL)



TYPE 2 BEDDING (SPECIAL)

PIPE BEDDING | 34004A 1/20/05 REV# 3

GRAVEL COURSE 1	GRAV. COURSE 2	HOT MIX ASPHALT (MASSDOT M3.11.00)	
8" GRAVEL BORROW (MASSDOT M1.03.0 TYPE C)	4" PROC. GRAV. BASE COURSE (MASSDOT M1.03.1)	2.5" HMA BINDER COURSE	1.5" HMA STD. TOP COURSE



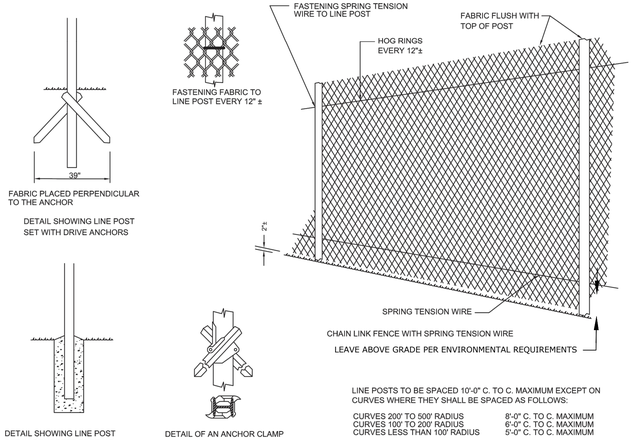
PAVED ACCESS DRIVEWAY-COUNTRY DRAINAGE
20' TRAVELED WAY WITH 1' PAVED SHOULDERS

TYPICAL DRIVEWAY APRON SECTION | 36010B 8/26/93 REV# 0

MassDOT CONSTRUCTION STANDARDS

CHAIN LINK FENCE (SPRING TENSION WIRE)

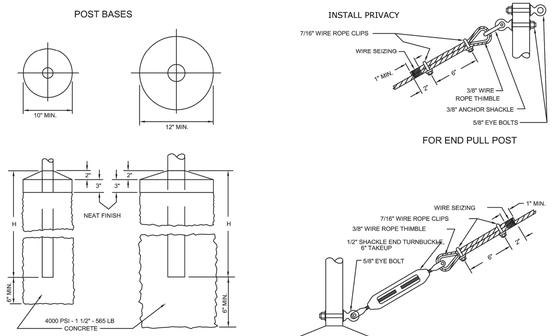
DRAWING NUMBER E 404.1.0 | DATE OF ISSUE MARCH 2012



MassDOT CONSTRUCTION STANDARDS

CHAIN LINK FENCE DETAILS OF CABLE ATTACHMENTS & POST BASES

DRAWING NUMBER E 404.5.0 | DATE OF ISSUE MARCH 2012



FENCE HEIGHT	MIN. H
5' OR LESS	2'-6"
OVER 5'	3'-0"

NOTE:
1. FOR EYE BOLT INSTALLATION THROUGH PIPE SECTIONS, USE 2 WASHERS ON "SHOULDER SIDE" AND 1 WASHER WITH LOCK WASHER ON "NUT SIDE" OF POSTS.

DETAILS OF CABLE ATTACHMENTS

NO.	DATE	REVISION/ISSUE	BY
	1/25/22	Issue for Special Permit Supplement Only	

SHEET TITLE: DETAILS 1

PROJECT TITLE: TETRAHYDRA AGTEK LLC
509 Quarry Road
Becket, MA.

PROJECT NO.	E2988
SCALE	AS NOTED
DATE	1/25/22
DESIGNED BY	SAM
DRAWN BY	DMW
CHECKED BY	
SHEET NO.	C-7
OF SHEETS	
CADFILE NO.	E2988D02

FORESIGHT LAND SERVICES — ENGINEERING SURVEYING PLANNING

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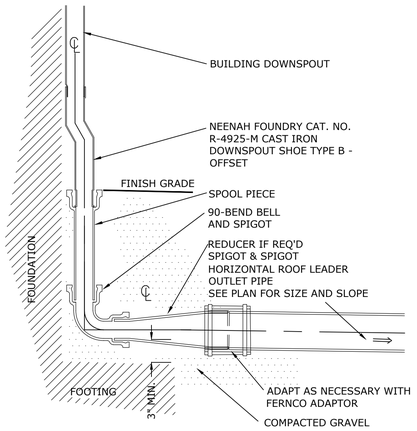
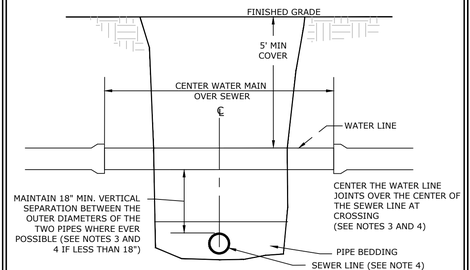
1496 WEST HOUSATONIC STREET - PITTSFIELD, MA 01201
TEL: (413) 499-1560 FAX: (413) 499-3307 WWW.FORESIGHTLAND.COM



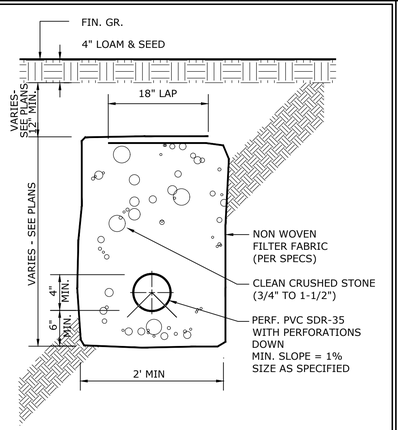
DOWNSPOUT LEADER INLET

NOTES:
1. SEWER LINES SHALL TYPICALLY BE INSTALLED AT LEAST 18" LOWER THAN EXISTING OR PROPOSED WATER MAINS WITHIN 10 FEET HORIZONTALLY UNLESS CONDITIONS PROHIBIT IT.
2. WHERE SEWER MUST CROSS UNDER THE WATER MAIN, THE SEWER SHALL BE LAID SO THE TOP OF THE SEWER IS AT LEAST 18" BELOW THE BOTTOM OF THE WATER MAIN. (SEE DETAIL BELOW)
3. IF THE VERTICAL SEPARATION AT THE WATER/SEWER CROSSING MUST BE LESS THAN 18" FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATER MAIN, THE WATER LINE SHOULD BE RELOCATED TO CONFORM TO THE REQUIRED SEPARATION. ALTERNATIVELY,THE WATER MAIN SHALL BE RECONSTRUCTED WITH MECHANICAL JOINT CEMENT-LINED DUCTILE IRON PIPE FOR A DISTANCE OF 10 FEET EACH SIDE OF THE SEWER; AND ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED OVER THE SEWER SO THE JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
4. IF THE REQUIRED 18" VERTICAL SEPARATION (AND/OR REQUIRED HORIZONTAL SEPARATION) CANNOT BE MET, BOTH THE WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT-LINED DUCTILE IRON PIPE FOR AT LEAST 10 FEET EACH SIDE OF THE CROSSING; AND BOTH PIPES SHALL BE PRESSURE TESTED FOR WATERTIGHTNESS OR BOTH PIPES SHALL BE ENCASED IN CONCRETE.



SEWER/WATER CROSSING DETAIL

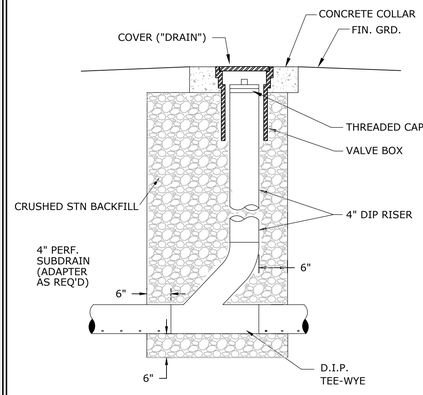
33011B
4/11/08
REV# 2



NOTES: IF SUBDRAIN PIPE IS NOT METAL, PROVIDE A 4' LENGTH OF SOLID-WALL DUCTILE IRON PIPE AT OUTLET TO DAYLIGHT, OR AT CONNECTION TO DRAINAGE STRUCTURE. PROVIDE SMALL ANIMAL GUARD IF OUTLET TO DAYLIGHT.

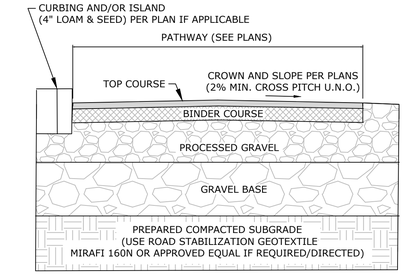
SUBDRAIN

32103A
6/10/2011
REV# 1



SUBDRAIN CLEANOUT

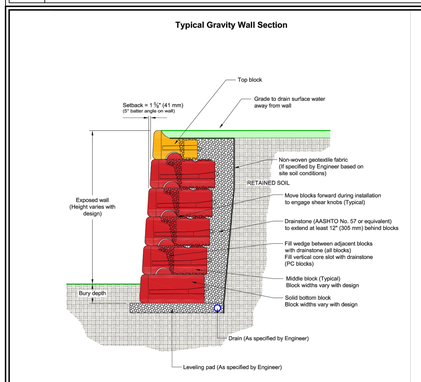
AREA	BANK RUN GRAV. SUBBASE (MassDOT M1.03.0 Type B)	PROC. GRAV. BASE COURSE (MassDOT M1.03.1)	HOT MIX ASPHALT (MassDOT M3.11.00) BINDER COURSE	HOT MIX ASPHALT (MassDOT M3.11.00) TOP COURSE
REGULAR DUTY PAVEMENT	8" MIN.	4" MIN.	2 1/2"	2"



NOTES:
1. PREPARE SUBGRADE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED; REMOVE AND REPLACE ANY UNSUITABLE MATERIAL; COMPACT.
2. INSTALL GEOTEXTILE.
3. PROVIDE TRAFFIC CONTROLS PER TOWN REQ'MTS.
4. WORKMANSHIP & MATERIALS TO CONFORM TO MASSDOT. STANDARD SPECIFICATIONS FOR HIGHWAYS & BRIDGES UNLESS OTHERWISE SPECIFIED.
5. GRAVEL BASE MATERIALS TO BE COMPACTED TO 95% MAX. DRY DENSITY PER ASTM D1557.
6. TRENCHES IN PAVED AREAS TO BE COMPACTED IN MAX. 9" LIFTS TO 95% M.D.D.

PATHWAY PAVEMENT

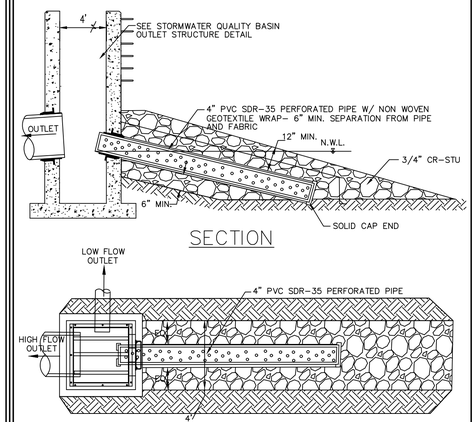
36047A
2019
REV 0



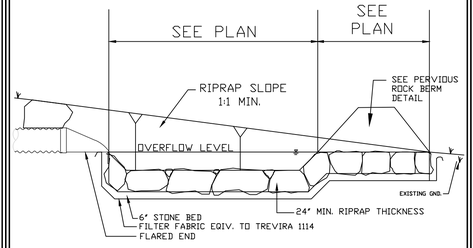
This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site.

DRAWN BY:	JRJ	TITLE: Typical Gravity Wall Detail	RED-ROCK
APPROVED BY:	JRJ		65461 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 532-6400 ext 3310 ✦ engineering@red-rock.com www.red-rock.com
DATE:	17MAR2016		
SHEET:	1 of 1	FILE: 1 Typical Gravity Wall Detail 031716.dwg	

RETAINING WALL

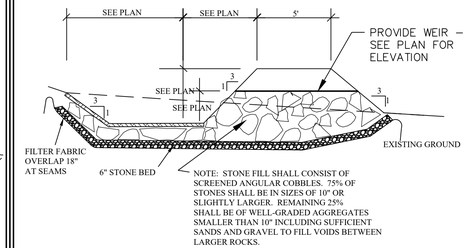


SWMA REVERSE SLOPE TRICKLE FILTER



ROCK RIP RAP DISCHARGE / SUMP

32109A
6/22/93
REV# 0

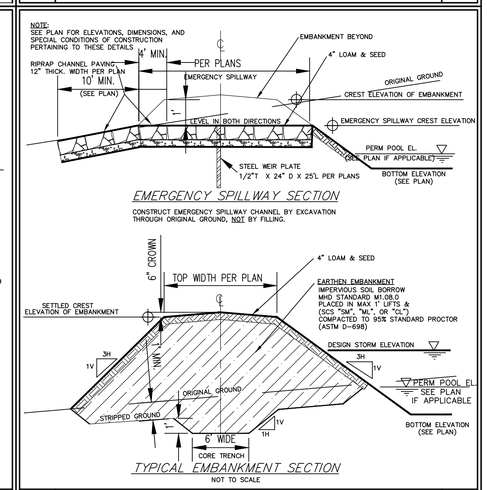


NOTE: STONE FILL SHALL CONSIST OF SCREENED ANGULAR COBBLES. 75% OF STONES SHALL BE IN SIZES OF 10" OR SLIGHTLY LARGER. REMAINING 25% SHALL BE OF WELL-GRADED AGGREGATES SMALLER THAN 10" INCLUDING SUFFICIENT SANDS AND GRAVEL TO FILL VOIDS BETWEEN LARGER ROCKS.

SITE SPECIFIC MINIMUM WEIR LENGTH (L) & VOLUME (V) REQUIRED
WQS-1: L=22', V=592 CF
WQS-2: L=5', V=53 CF
WQS-3: L=10', V=78 CF

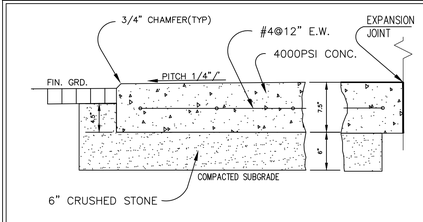
PERVIOUS ROCK BERM

32108A
6/22/93
REV# 0



STORMWATER BASIN EMBANKMENT

32115A
9/26/95
REV# 0



CONCRETE DUMPSTER PAD

NO.	DATE	REVISION/ISSUE	BY
	1/25/22	Issue for Special Permit Supplement Only	

SHEET TITLE: DETAILS 2

PROJECT TITLE: TETRAHYDRA AGTEK LLC
509 Quarry Road
Becket, MA.

PROJECT NO.: E2988
SCALE: AS NOTED
DATE: 1/25/22
DESIGNED BY: SAM
DRAWN BY: DMW
CHECKED BY:
SHEET NO.: C-8
OF SHEETS
CADFILE NO.: E2988D02

FORESIGHT LAND SERVICES — ENGINEERING SURVEYING PLANNING

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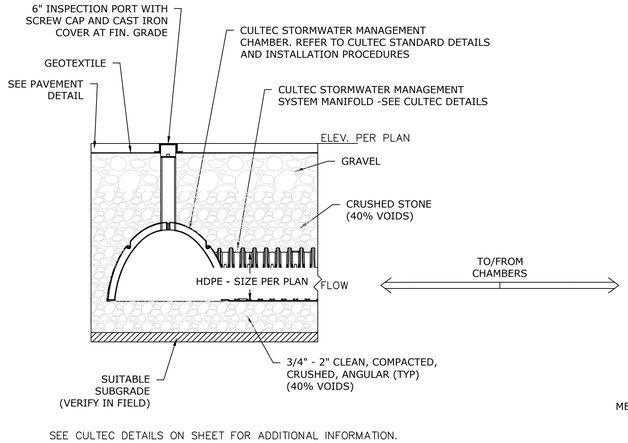
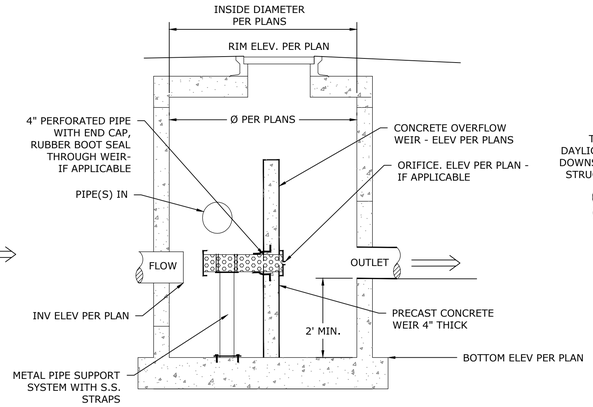
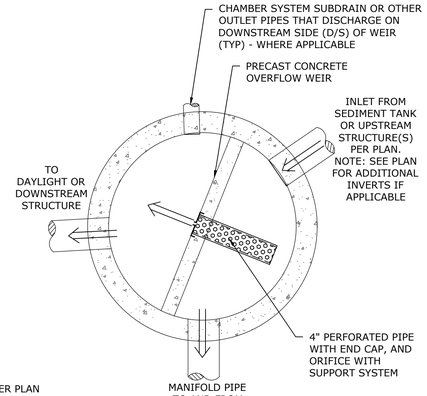
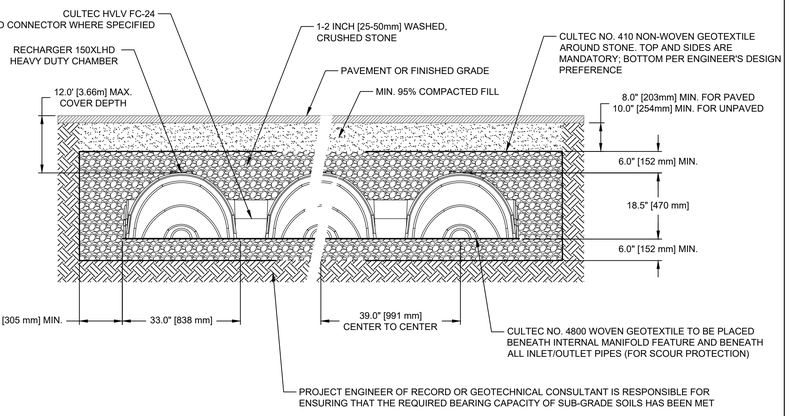






SPECIAL DRAINAGE CONTROL STRUCTURE



CULTEC RECHARGER 150XLHD HEAVY DUTY CROSS SECTION

CULTEC RECHARGER® 150XLHD SPECIFICATIONS

GENERAL
CULTEC RECHARGER® 150XLHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR
3. THE CHAMBER SHALL BE ARCHED IN SHAPE.
4. THE CHAMBER SHALL BE OPEN-BOTTOMED.
5. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
6. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 150XLHD SHALL BE 18.5 INCHES (470 mm) TALL, 33 INCHES (838 mm) WIDE AND 11 FEET (3.35 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 150XLHD SHALL BE 10.25 FEET (3.12 m).
7. MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 12 INCHES (300 mm) HDPE OR 15" (375 mm) SMOOTH-WALL PVC.
8. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV® FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL INSIDE DIMENSIONS OF EACH SIDE PORTAL SHALL BE 8.5 INCHES (216 mm) HIGH BY 12 INCHES (304 mm) WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 10.25 INCHES (260 mm).
9. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV® FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (615 mm) LONG.
10. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 150XLHD CHAMBER SHALL BE 2.650 FT³ / FT (0.246 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 150XLHD SHALL BE 27.16 FT3 / UNIT (0.77 m³ / UNIT) - WITHOUT STONE.
11. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
12. THE RECHARGER 150XLHD CHAMBER SHALL HAVE THIRTY DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
13. THE RECHARGER 150XLHD CHAMBER SHALL HAVE 20 CORRUGATIONS.
14. THE ENDWALL OF THE CHAMBER, WHEN PRESENT, SHALL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
15. THE RECHARGER 150XLRHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE ENDWALLS.
16. THE RECHARGER 150XLSHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 mm) HIGH X 20.5 INCHES (521 mm) WIDE.
17. THE RECHARGER 150XLIHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 mm) HIGH X 20.5 INCHES (521 mm) WIDE.
18. THE RECHARGER 150XLEHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
19. THE HVLV® FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE RECHARGER 150XLHD AND ACT AS CROSS FEED CONNECTIONS.
20. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
21. THE CHAMBER SHALL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
22. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
23. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.
24. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
25. THE CHAMBER SHALL BE DESIGNED AND MANUFACTURED TO MEET THE MATERIAL AND STRUCTURAL REQUIREMENTS OF IAPMO PS 63-2019, INCLUDING RESISTANCE TO AASHTO H-10 AND H-20 HIGHWAY LIVE LOADS, WHEN INSTALLED IN ACCORDANCE WITH CULTEC'S INSTALLATION INSTRUCTIONS.
26. THE CHAMBER SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE SPECIFICATION OF NSAI IRISH AGREEMENT BOARD CERTIFICATE FOR CULTEC ATTENUATION AND INFILTRATION.
27. MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.65 m).

CULTEC HVLV® FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL
CULTEC HVLV FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER 150XLHD STORMWATER CHAMBERS.

CHAMBER PARAMETERS

1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
3. THE CHAMBER SHALL BE ARCHED IN SHAPE.
4. THE CHAMBER SHALL BE OPEN-BOTTOMED.
5. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 MM) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT3 / FT (0.085 m³ / m) - WITHOUT STONE.
7. THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
8. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
9. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
10. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE
CULTEC NO. 410™ NON-WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE.

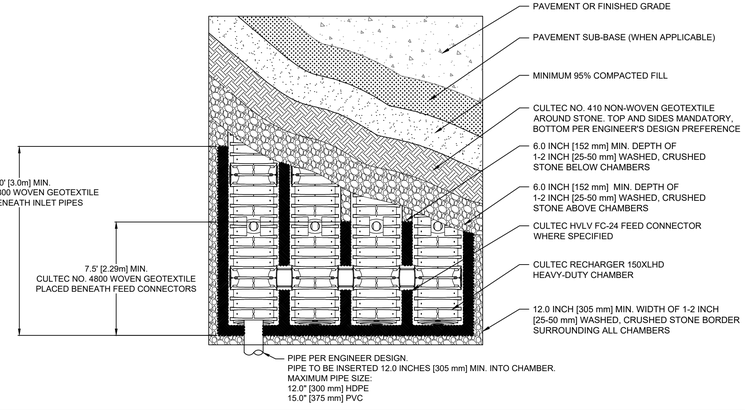
GEOTEXTILE PARAMETERS

1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).
4. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632 TESTING METHOD.
5. THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING METHOD.
6. THE GEOTEXTILE SHALL HAVE A MULLEN BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786 TESTING METHOD.
7. THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833 TESTING METHOD.
8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241 TESTING METHOD.
9. THE GEOTEXTILE SHALL HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533 TESTING METHOD.
10. THE GEOTEXTILE SHALL HAVE A AOS VALUE OF 70 U.S. SIEVE (0.212 MM) PER ASTM D4751 TESTING METHOD.
11. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4491 TESTING METHOD.
12. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 L/MIN/SM) PER ASTM D4491 TESTING METHOD.
13. THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD.

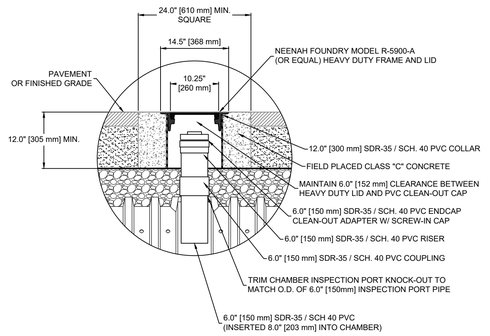
CULTEC NO. 4800™ WOVEN GEOTEXTILE
CULTEC NO. 4800 WOVEN GEOTEXTILE IS DESIGNED AS A UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.

GEOTEXTILE PARAMETERS

1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 550 X 550 LBS (2,448 X 2,448 N) PER ASTM D4632 TESTING METHOD.
4. THE GEOTEXTILE SHALL HAVE A ELONGATION @ BREAK RESISTANCE OF 20 X 20% PER ASTM D4632 TESTING METHOD.
5. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 5,070 X 5,070 LBS/FT (74 X 74 KN/M) PER ASTM D4595 TESTING METHOD.
6. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 2% STRAIN OF 960 X 1,096 LBS/FT (14 X 16 KN/M) PER ASTM D4595 TESTING METHOD.
7. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 5% STRAIN OF 2,740 X 2, 740 LBS/FT (40 X 40 KN/M) PER ASTM D4595 TESTING METHOD.
8. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 10% STRAIN OF 4,800 X 4,800 LBS/FT (70 X 70 KN/M) PER ASTM D4595 TESTING METHOD.
9. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,700 LBS (7,560 N) PER ASTM D6241 TESTING METHOD.
10. THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 180 X 180 LBS (801 X 801 N) PER ASTM D4533 TESTING METHOD.
11. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD.
12. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.15 SEC-1 PER ASTM D4491 TESTING METHOD.
13. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 11.5 GPM/FT2 (470 LPM/M2) PER ASTM D4491 TESTING METHOD.
14. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 80% @ 500 HRS. PER ASTM D4355 TESTING METHOD.



CULTEC RECHARGER 150XLHD HEAVY DUTY PLAN VIEW



INSPECTION PORT - ZOOM DETAIL

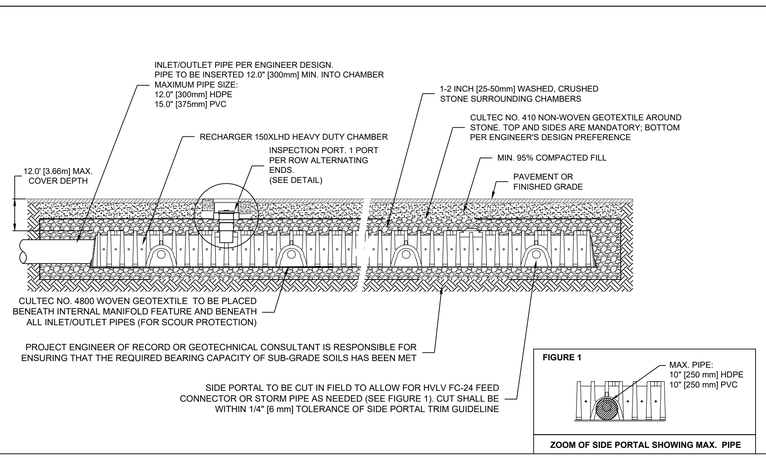


FIGURE 1

ZOOM OF SIDE PORTAL SHOWING MAX. PIPE

CULTEC INTERNAL MANIFOLD - INSPECTION PORT DETAIL

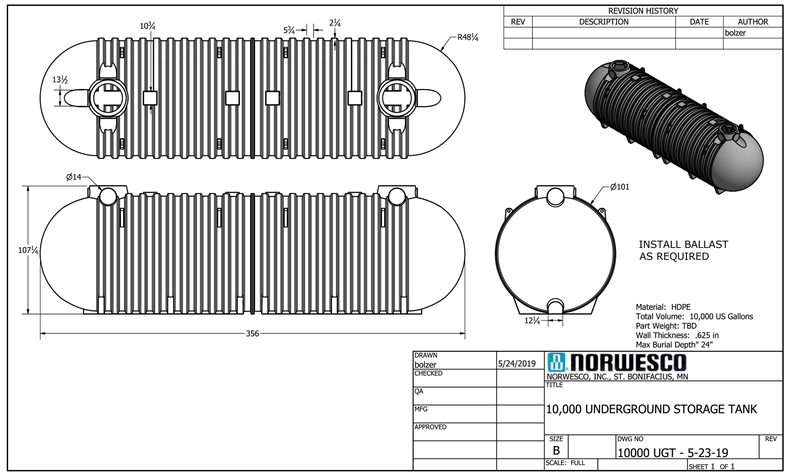
NO.	DATE	REVISION/ISSUE	BY
	1/25/22	Issue for Special Permit Supplement Only	

SHEET TITLE: DETAILS 3

PROJECT TITLE: TETRAHYDRA AGTEK LLC
509 Quarry Road
Becket, MA.

PROJECT NO.: E2988
SCALE: AS NOTED
DATE: 1/25/22
DESIGNED BY: SAM
DRAWN BY: DMW
CHECKED BY:
SHEET NO.: C-9
OF SHEETS
CAD FILE NO.: E2988D02

FORESIGHT LAND SERVICES — ENGINEERING SURVEYING PLANNING
FORESIGHT LAND SERVICES, INC.
1496 WEST HOUSATONIC STREET - PITTSFIELD, MA 01201
TEL: (413) 499-1560 FAX: (413) 499-3307 WWW.FORESIGHTLAND.COM



REVISION HISTORY			
REV	DESCRIPTION	DATE	AUTHOR
			bolzer

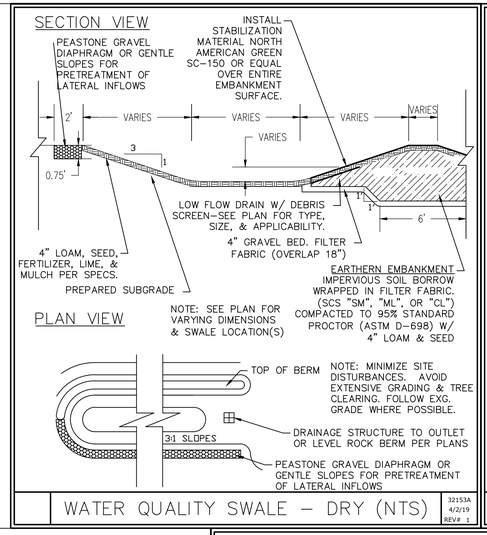
DRAWN	bolzer	5/24/2019
CHECKED		
QA		
MFG		
APPROVED		

NORWESCO, INC., ST. BONIFACIUS, MN

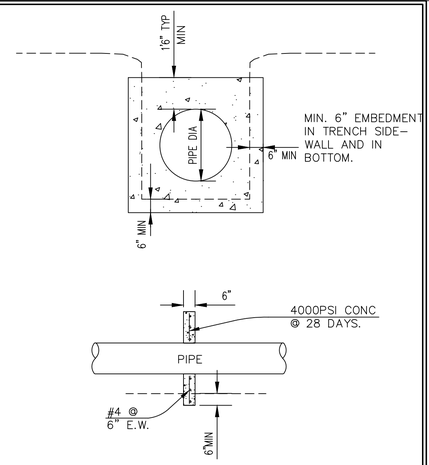
TITLE: 10,000 UNDERGROUND STORAGE TANK

SIZE: B | DWG NO: 10000 UGT - 5-23-19 | REV

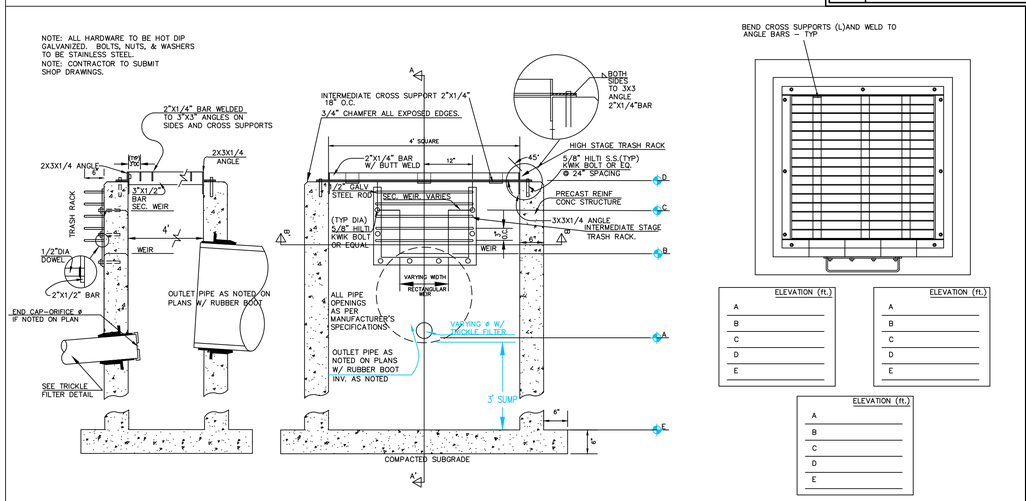
SCALE: FULL | SHEET 1 OF 1



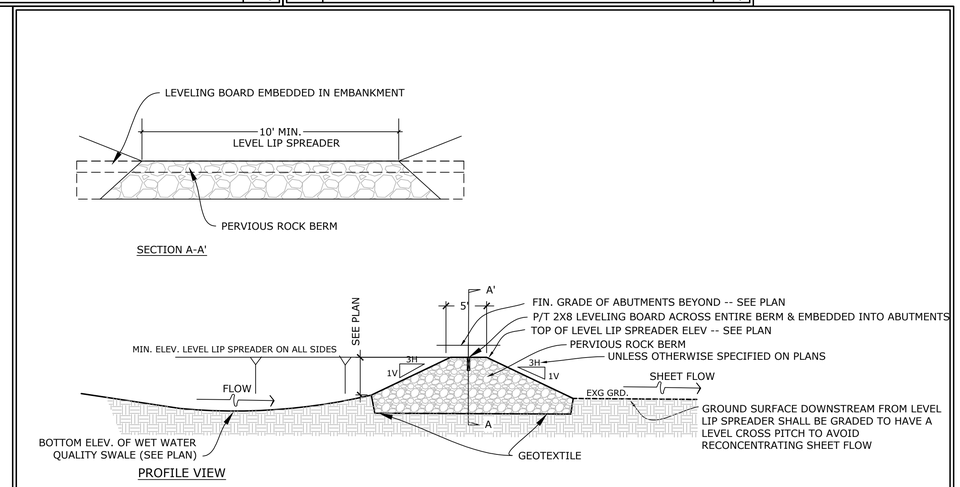
WATER QUALITY SWALE – DRY (NTS) | 32153A 4/2/19 REV# 1



ANTI-SEEP COLLAR | 32130b 3/6/97 REV# C



SWMA MULTI-STAGE OUTLET STRUCTURE



LEVEL LIP SPREADER AND PERVIOUS ROCK BERM | 32144F 4-2-19 REV 0

NO.	DATE	REVISION/ISSUE	BY
	1/25/22	Issue for Special Permit Supplement Only	

SHEET TITLE: DETAILS 4

PROJECT NO: E2988
SCALE: AS NOTED
DATE: 1/25/22
DESIGNED BY: SAM
DRAWN BY: DMW
CHECKED BY:
SHEET NO.: C-10 OF ___ SHEETS
LSHYLA NO: E2988D02

PROJECT TITLE: TETRAHYDRA AGTEK LLC
509 Quarry Road
Becket, MA.

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