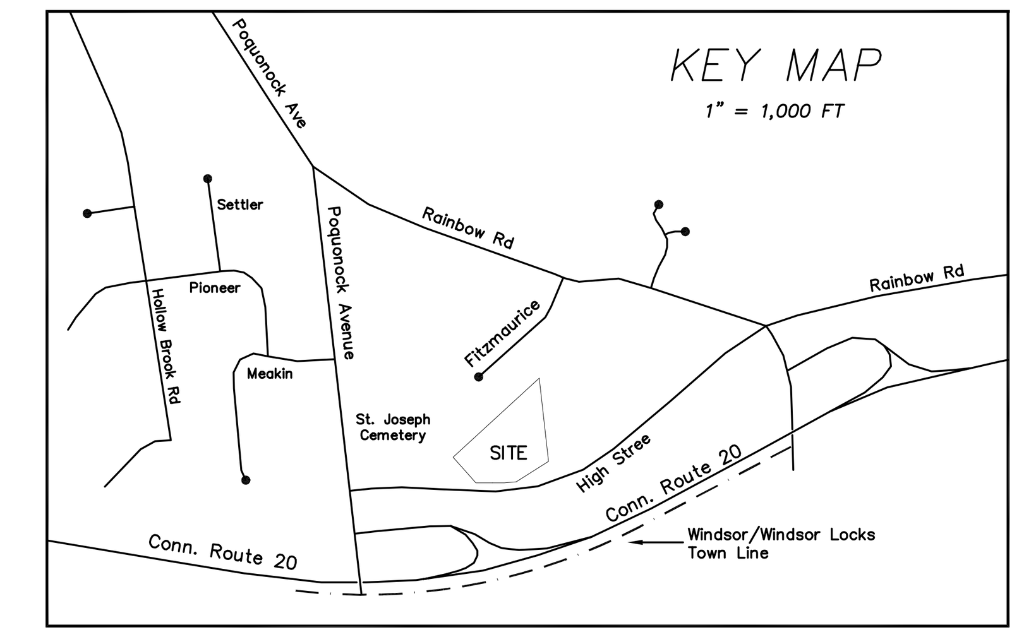

GENERAL NOTES

1. PROPERTY OWNER: EBEX, INC.
460–C SUNRISE HIGHWAY
WEST BAYLO, NY 11704

APPLICANT: EBEX, INC.
460–C SUNRISE HIGHWAY
WEST BAYLO, NY 11704

CONTACT PERSON: John Sin
(516) 233–5051
jsinc21.@gmail.com

2. PARCEL LOCATION: 120 HIGH STREET
3. PARCEL AREA = 234,360 Sq. Ft. = 5.380 Acres
4. PARCEL ZONE: AA–RESIDENTIAL ZONE
5. THE SUBJECT PARCEL HAS DIRECT ACCESS TO A PUBLIC ROAD.

SURVEY NOTES

1. TO MY KNOWLEDGE AND BELIEF, THIS MAP AND SURVEY ARE SUBSTANTIALLY CORRECT AND WERE PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20–300B–1 THROUGH 20–300B–20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
2. THE TYPE OF SURVEY IS A ZONING LOCATION SURVEY
3. BOUNDARY DETERMINATION CATEGORY: DEPENDENT RESURVEY
4. HORIZONTAL CLASS OF ACCURACY: A–2

BOUNDARY INFORMATION REFERENCES

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4. MAP REF.: "PLAN PREPARED FOR SAINT DAMIEN OF MOLOKI PARISH CORPORATION LAND KNWON AS ST. JOSEPH CEMETERY 2101 POQUONOCK AVE, WINDSOR, CONNECTICUT MAP 25 BLOCK 127 LOT 007 ZONE: NZ DATE 9–13–19 SCALE 1"=50' J.R. RUSSO & ASSOCIATES, LLC 1 SHOHAM RD EAST WINDSOR, CT 06088 CT. 860.623.0569 MA 413.785.1158 WWW.JRRUSSO.COM INFO@JRRUSSO.COM"
5. MAP REF.: Sheet 1 of 5, "PLOT PLAN PREPARED FOR SAINT JOSEPH'S CHURCH FITZMAURICE CIRCLE RAINBOW ROAD WINDSOR, CT. SCALE: 1 IN. = 40 FT. DATE: NOV. 17, 1987 ALFORD ASSOCIATES, INC. CIVIL ENGINEERS WINDSOR, CONNECTICUT" REVISED THROUGH 5/5/99 REMOVE EASEMENT, REVISE BL, LOT 2
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TOWN OF WINDSOR CONTACT INFORMATION

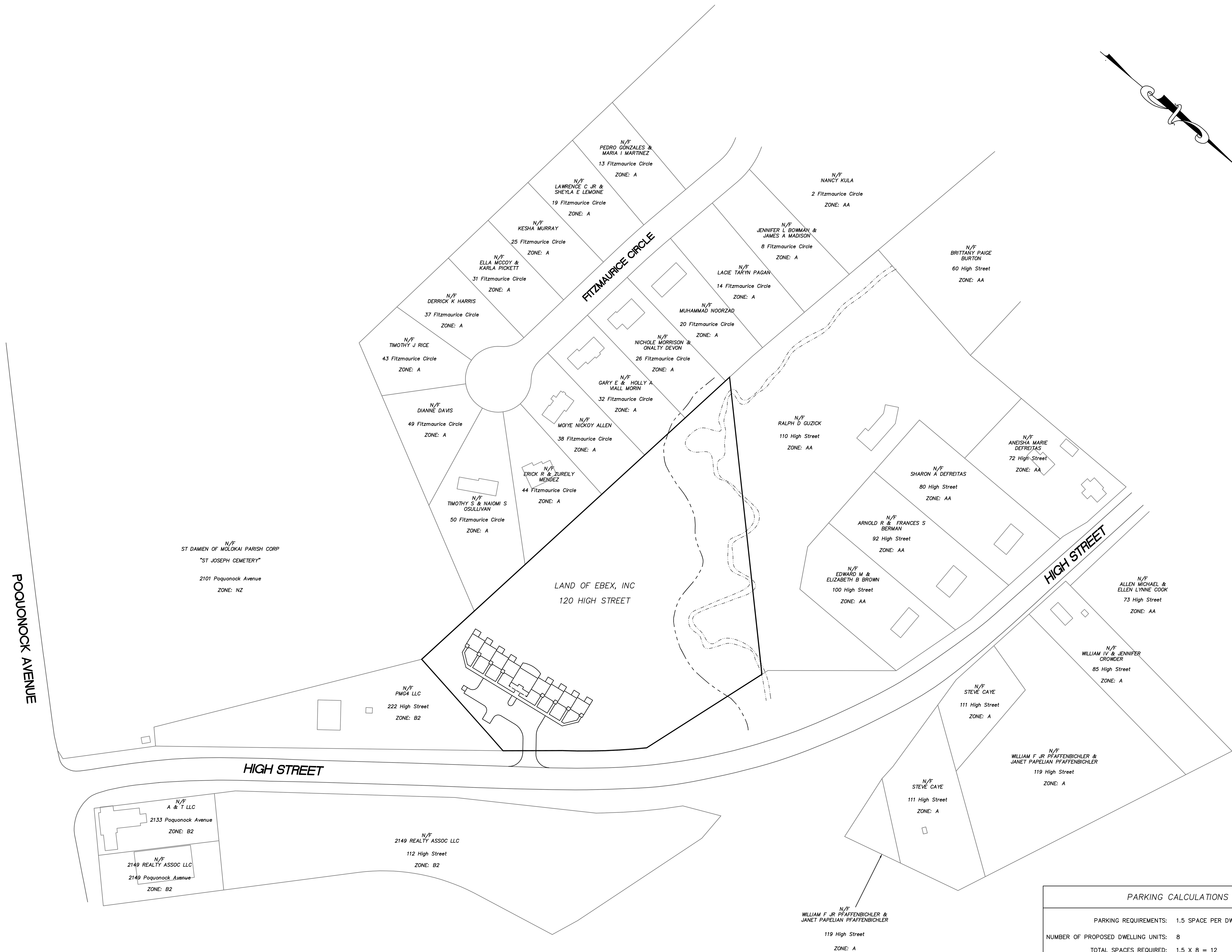
TOWN PLANNER: ERIC BARZ (860) 285–1981
ASSISTANT TOWN PLANNER: TODD SEALY (860) 285–1982
INLAND WETLANDS AGENT: CHLOE THOMPSON (860) 285–1987

TOWN ENGINEER: BOB JARVIS (860) 285–1804
DEPUTY ENGINEER: JENNA ZINKY (860) 285–1874

BUILDING OFFICIAL: DAVID LANGWORTHY (860) 285–1960

FIRE MARSHALL: ROBERT BOLASEVICH (860) 285–1972
FIRE INSPECTOR: LAUIRE VOLKER (860 285–1971

DIRECTOR OF PUBLIC HEALTH: MICHALE PEPE (860 285–1828



PARKING CALCULATIONS	
PARKING REQUIREMENTS:	1.5 SPACE PER DWELLING UNIT
NUMBER OF PROPOSED DWELLING UNITS:	8
TOTAL SPACES REQUIRED:	1.5 X 8 = 12
TOTAL SPACES PROVIDED:	12 STAFF SPACES = 2 TENANT / VISITOR = 10 TOTAL = 12
REQUIRED HANDICAP ACCESSIBLE:	MEDICAL FACILITY = 20% TENANT / VISITOR
TOTAL HANDICAP REQUIRED:	0.20 X 10 = 2
HANDICAP SPACES PROVIDED:	2

Sheet Index

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

Sheet 1
Cover Sheet

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

BARRESI
ASSOCIATES LLC
570 HAYDEN STATION ROAD – UNIT D – WINDSOR, CT 06095
(860) 219–9260 www.barresillc.com

DATE	REVISION
8/15/23	Per Town Engineer

SPECIAL USE PERMIT SITEPLAN
PREPARED FOR
EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

SCALE: 1 IN = 100 FT — JULY 7, 2023

SITE DEVELOPMENT NOTES:

1. THE ZONING REGULATIONS OF THE TOWN OF WINDSOR PLANNING AND ZONING COMMISSION ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT ON COMPLIANCE WITH ALL REQUIREMENTS THEREOF.

2. THE DEVELOPER, PROPERTY OWNER AND/OR BUILDER SHALL CONTACT THE ENGINEERING DEPARTMENT AT TWO WORKING DAYS PRIOR TO STARTING ANY WORK ON THE SITE IN ORDER TO DISCUSS ANY SPECIAL CONDITIONS AND/OR REQUIRED INSPECTIONS.

3. CONTRACTOR MUST VERIFY EXISTING SITE TOPOGRAPHY AND UTILITIES BEFORE BEGINNING CONSTRUCTION. CONTRACTOR MUST NOTIFY DESIGN ENGINEER OF ANY DIFFERENCES BETWEEN CONDITIONS FOUND ON THE SITE AND THOSE DEPICTED ON THE PLAN. CONTRACT OR SHALL CALL "CALL BEFORE YOU DIG" 1-800-922-4455 AT LEAST 48 HOURS PRIOR TO EXCAVATION NEAR PUBLIC UTILITIES.

4. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE TOWN OF WINDSOR STANDARDS AND CONNECTICUT DOT FORM 818.

5. ALL PROPOSED UTILITIES SHALL BE UNDERGROUND. CONSTRUCTION & INSTALLATION OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH INDIVIDUAL UTILITY REQUIREMENTS. CONTRACTOR TO PROVIDE COORDINATION AS REQUIRED.

6. SEPTIC SYSTEM MUST BE APPROVED AND INSPECTED BY THE TOWN OF WINDSOR HEALTH DEPARTMENT. AN AS-BUILT PLAN OF THE SEPTIC SYSTEM IS REQUIRED BY THE PUBLIC HEALTH CODE.

7. A TOWN OF WINDSOR R.O.W. PERMIT IS REQUIRED FOR WORK WITHIN THE TOWN RIGHT-OF-WAYS.

8. OWNER TO PRACTICE EFFECTIVE DUST CONTROL PER THE SOIL CONSERVATION SERVICE HANDBOOK DURING CONSTRUCTION AND UNTIL ALL AREAS ARE STABILIZED OR SURFACE TREATED.

9. EXTERIOR LIGHTING SHALL NOT BE DIRECTED ONTO ABUTTING PROPERTIES OR ABUTTING ROADWAYS. ANY BUILDING MOUNTED LIGHTING SUBJECT TO STAFF AND/OR COMMISSION REVIEW PRIOR TO INSTALLATION.

10. ANY SIGN TO BE INSTALLED ON THE SITE, WITH THE EXCEPTION OF THOSE REQUIRED HEREIN OR BY OTHER TOWN OR STATE REGULATION, SHALL BE SUBJECT TO STAFF AND/OR COMMISSION REVIEW PRIOR TO INSTALLATION.

11. HANDICAP PARKING SPACES ARE TO BE MARKED IN ACCORDANCE WITH STATE OF CONNECTICUT BUILDING CODES AND PUBLIC ACT 88-412 (F) HANDICAPPED PARKING SPACES ARE TO BE CLEARLY MARKED IN ACCORDANCE WITH THE TOWN OF WINDSOR ORDINANCE 79-2 SECTION 19-53.

HANDICAP PARKING SPACES AND HANDICAP PAVEMENT MARKINGS SHALL HAVE A MAXIMM GRADE OF 2%.

12. ANY APPROVED LANDSCAPING WILL BE SUBJECT TO FINAL REVIEW BY THE TOWN PLANNER FOR ADEQUACY AND SUITABILITY OF SPECIES IN THE LOCATION(S) PROPOSED.

13. THE REMOVAL OF TREES OR OTHER VEGETATION OR REGRADING OF SOIL SUBSTANTIALLY DIFFERENT FROM THAT SHOWN ON THE GRADING AND EROSION CONTROL PLAN IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE TOWN ENGINEERING STAFF.

14. LOAM AND SEED ALL DISTURBED AREAS WHICH ARE NOT PAVED, MULCHED OR PLANTED PER THE SEDIMENTATION AND EROSION CONTROL DETAILS PLAN.

15. DEVELOPER SHALL REMOVE ALL DEBRIS. TRASH, METAL AND SIMILAR MATERIAL FROM THE SITE AND DISPOSE OF OFF SITE IN ACCORDANCE WITH D.E.P. AND TOWN REGULATIONS.

16. ANY OUTSIDE STORAGE OF VEHICLES OR MATERIALS WILL REQUIRE A SPECIAL PERMIT BY THE COMMISSION.

17. BUILDING DESIGN AND MATERIALS SUBJECT TO FINAL STAFF AND/OR COMMISSION REVIEW PRIOR TO OBTAINING A BUILDING PERMIT AND/OR BEGINNING CONSTRUCTION.

18. UPON PROJECT COMPLETION, THE APPLICANT IS REUIRED TO SUBMIT AN "AS-BUILT" SURVEY PLAN FOR ALL STORMWATER MANAGEMENT FACILITIES AND PRACTICES PER SECTION 3.156 OF THE TOWN ORDINANACE.

STANDARD WETLAND NOTES:

CARE SHOULD BE TAKEN TO PRESERVE ALL SPECIMEN TREES. ALL SPECIMEN TREES LOCATED IN OR ADJACENT TO REGULATED AREAS SHALL BE FLAGGED AND THEIR REMOVAL APPROVED BY STAFF PRIOR TO REMOVAL. TREES IDENTIFIED TO BE SAVED SHALL BE PROTECTED FROM DAMAGE BY CONSTRUCTION EQUIPMENT BY SUITABLE MEANS APPROVED BY THE WETLANDS AGENT.

THERE SHALL BE NO STOCKPILING OR DISPOSAL OF SURPLUS MATERIAL, WITHIN OR IMMEDIATELY ADJACENT TO REGULATED AREAS, TEMPORARILY OR PERMANENTLY, BEYOND THE EXTENT SHOWN ON THE APPROVED PLANS. ANY EXCESS MATERIAL FROM THE PROPOSED CONSTRUCTION SHALL BE DEPOSITED IN AN OFF-SITE NON-REGULATED AREA AND THE APPLICANT SHALL PROVIDE CERTIFICATION OF ITS DEPOSITION AND QUANTITY. THE APPLICANT SHALL OBTAIN ALL NECESSARY PERMITS FOR THE DEPOSITION OF THIS MATERIAL.

ALL TOPSOIL, WETLAND SOILS AND/OR ORGANIC MATERIAL SHALL REMAIN ON THE SITE UNLESS SPECIFICALLY APPROVED TO BE REMOVED BY THE INLAND WETLANDS AND WATERCOURSES COMMISSION. THIS MATERIAL SHALL BE USED FOR FINAL RESTORATION OF DISTURBED AREAS.

PROPOSED STORM DRAINAGE MANAGEMENT IMPROVEMENTS, CHANNEL WORK, AND ASSOCIATED STABILIZATION SHOULD BE COMPLETED PRIOR TO THE INITIATION OF ANY BUILDING OR ROAD CONSTRUCTION SERVED BY THEM. THIS WORK IS TO BE DONE AS TIMELY AS POSSIBLE DURING EXPECTED PERIODS OF LOW RAINFALL AND COMPLETED THE FIRST CONSTRUCTION SEASON.

THE DEVELOPER SHALL BE RESPONSIBLE FOR THE CLEANING OF NEARBY STREETS AS ORDERED BY THE TOWN OR STATE, OF ANY DEBRIS FROM HIS CONSTRUCTION ACTIVITIES.

ANY ADDITIONAL SEDIMENTATION/EROSION CONTROL MEASURES DEEMED NECESSARY BY THE WETLANDS AGENT DURING ANY CONSTRUCTION PROCESS SHALL BE IMPLEMENTED BY THE DEVELOPER. IN ADDITION, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT/MAINTENANCE OF ALL SEDIMENTATION/EROSION CONTROL MEASURES UNTIL ALL DISTURBED AREAS ARE STABILIZED.

A PRECONSTRUCTION MEETING, WITH THE WETLANDS AGENT, IS REQUIRED FOR ALL PROJECTS. THE DEVELOPER SHALL NOTIFY THE WETLANDS AGENT AT THE FOLLOWING STAGES OF CONSTRUCTION FOR INSPECTIONS:
- PRIOR TO CLEARING OF EXISTING VEGETATION (CLEARING LIMITS FLAGGED)
- AFTER EROSION AND SEDIMENTATION CONTROL MEASURES ARE INSTALLED OR REPAIRED
- PRIOR TO AND AFTER WETLANDS MITIGATION AREAS OR DETENTION BASINS ARE CONSTRUCTED
- AFTER STORM DRAINAGE OUTLETS ARE CONSTRUCTED
- AFTER ROUGH GRADING IS COMPLETED
- AFTER WETLANDS PLANTINGS ARE PLANTED
- PRIOR TO PLACING OF TOPSOIL ON RESTORED AREAS
- AFTER DISTURBED AREAS HAVE BEEN FULLY STABILIZED

THE DEVELOPER SHALL SUBMIT A COPY OF ANY DEPARTMENT OF ENVIRONMENTAL PROTECTION OR ARMY CORPS OF ENGINEERS PERMITS OR REGISTRATIONS THAT ARE REQUIRED FOR THE PROJECT.

THE DEVELOPER SHALL SUBMIT WEEKLY REPORTS TO THE WETLANDS AGENT ON THE CONSTRUCTION PROGRESS AND STATUS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES.

THE DEVELOPER SHALL SUBMIT ANNUAL REPORTS, FROM A WETLAND SCIENTIST, ON THE PROGRESS AND STATUS OF ALL MITIGATION AREAS AND IMPLEMENT ANY RECOMMENDATIONS.

THE DEVELOPER SHALL SUBMIT A COPY OF ANY CONSTRUCTION DOCUMENTS, BID PLANS OR SPECIFICATIONS, OR OTHER INFORMATION PROVIDED TO THE CONTRACTOR FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. ALL SUCH INFORMATION SHALL NOT CONFLICT WITH THE REQUIREMENTS OF THE APPROVED PERMIT PLANS.

CHANGES TO THE PLANS APPROVED BY THE WETLANDS COMMISSION CANNOT BE MADE WITHOUT PRIOR APPROVAL OF THE COMMISSION, AND MAY REQUIRE A REVISED PERMIT.

Construction Waste & Litter Control Plan

120 High Street
Windsor, Connecticut

The OWNER hereby adopts strict "WASTE CONTROL" and "NO LITTER" policies which will be required of all CONTRACTORS and TRADESMEN

Contractors and Tradesmen will be sensitized to the importance of their relationship with the environment and local regulations, especially as it related to litter and recycling, and instructed not to litter and to recycle properly.

- Concrete Truck Washout will only occur in the designated Concrete Truck Washout Areas
- Concrete Truck Washout shall be contained where the waste can solidify and water can evaporate
- Weekly inspections of the Washout Areas shall be conducted to assess remaining capacity
- All site and building demolition material shall be immediately placed in construction dumpsters
- No fluid wastes and no prohibited material may be placed in a construction dumpster
- Full dumpsters shall be removed from the site prior to their overtopping
- All litter on site, without regard to its source, shall be collected daily and disposed of properly
- All waste construction material and debris shall be picked up daily and deposited in a dumpster
- Sediment shall be removed as required elsewhere and disposed of in an appropriate location

All waste materials and wastewater shall be disposed of in accordance with Local, State and Federal Law

Operations Waste & Litter Control Plan

120 High Street
Windsor, Connecticut

The OWNER hereby adopts strict "WASTE CONTROL" and "NO LITTER" policies which will be required of all Employees.

Residents Employees will be sensitized to the importance of their relationship with the environment and local regulations, especially as it related to litter and recycling, and instructed not to litter and to recycle properly.

OFFICE
- Recycling will occur within the office.
- Containers will be available for the recycling of white paper, cardboard, and recyclable plastics.
- An outside cigarette disposal container will be provided near the entrance.
- Staff will patrol the grounds daily and remove litter.
- No food or beverage will be consumed outside except on the designated patio areas.
- Outside trash containers will be placed at on the community patio dining area facilitating easy use.
- Outside trash containers will be emptied daily and stored inside at night

LOADING AND PARKING AREAS
- No food or beverage will be consumed outside.
- Wastes will be sorted to cardboard, recyclables and trash and disposed of properly.
- Trash and recycling bins will be placed as shown on the site plan.
- Trash and recycling bins will be emptied weekly.
- Staff will patrol the grounds daily and remove litter.

All waste materials and wastewater shall be disposed of in accordance with Local, State and Federal Law.

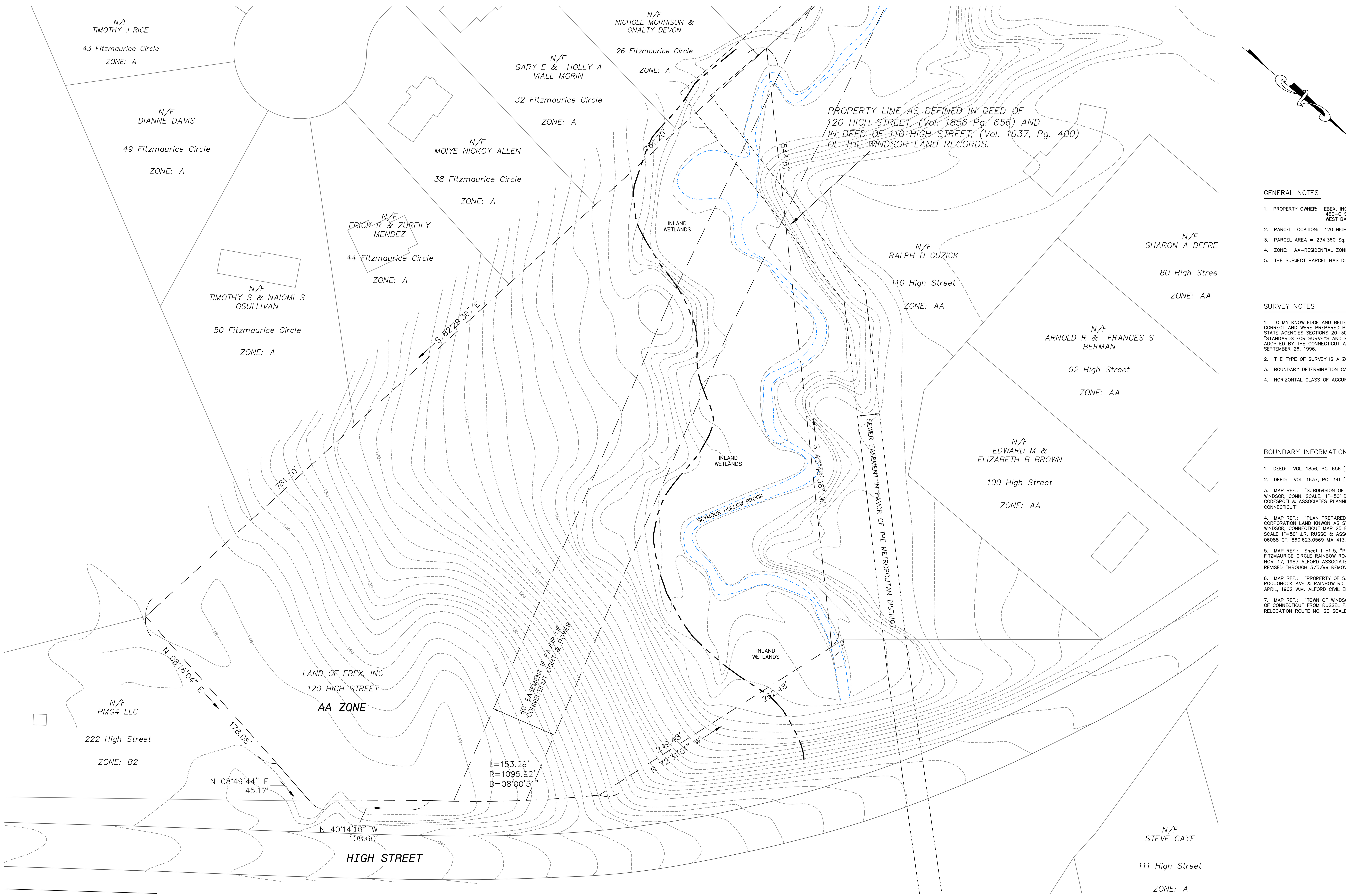
TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

BARRESI
ASSOCIATES LLC
570 HAYDEN STATION ROAD – UNIT D – WINDSOR, CT 06095
(860) 219-9260 www.barresillc.com

DATE	REVISION
8/15/23	Per Town Engineer

SPECIAL USE PERMIT SITEPLAN
PREPARED FOR
EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

SCALE: 1 IN = 80 FT | ----



GENERAL NOTES

1. PROPERTY OWNER: EBEX, INC.
460-C SUNRISE HIGHWAY
WEST BAYLO, NY 11704
2. PARCEL LOCATION: 120 HIGH STREET
3. PARCEL AREA = 234,360 Sq. Ft. = 5.380 Acres
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Sheet 3
Boundary & Existing Conditions

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

STATE OF CONNECTICUT
THOMAS J. BARRESI
No. 70085
LICENSED
LAND SURVEYOR

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

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ASSOCIATES LLC
570 HAYDEN STATION ROAD – UNIT D – WINDSOR, CT 06095
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DATE	REVISION
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SPECIAL USE PERMIT SITEPLAN
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EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

SCALE: 1 IN = 40 FT | JULY 7, 2023

N/F
ST DAMIEN OF MOLOKAI
PARISH CORP

"ST JOSEPH CEMETERY"

2101 Poquonock Avenue

N/F
PMG4 LLC

222 High Street

PROPERTY LINE

PROPERTY LINE

EXISTING VEGETATION TO REMAIN

LIMIT OF VEGETATION TO BE REMOVED

(F/HB): INSTALL SILT FENCE BACKED WITH HAY BALES

F/HB

LIMIT OF VEGETATION TO BE REMOVED

(F/HB): INSTALL SILT FENCE BACKED WITH HAY BALES

F/HB

LIMIT OF VEGETATION TO BE REMOVED

EXISTING VEGETATION TO REMAIN

F/HB

F/HB

(F/HB): INSTALL SILT FENCE BACKED WITH HAY BALES

LIMIT OF VEGETATION TO BE REMOVED

F/HB

EXISTING VEGETATION TO REMAIN

LIMIT OF VEGETATION TO BE REMOVED

LIMIT OF VEGETATION TO BE REMOVED

LIMIT OF VEGETATION TO BE REMOVED

F/HB

F/HB

SAW-CUT, REMOVE 74" CURBING.

(F/HB): INSTALL SILT FENCE

DC

DC

150' UPLAND REVIEW AREA

LIMIT INLAND WETLANDS

SEYMOUR HOLLOW BROOK

LIMIT INLAND WETLANDS

100'-YEAR FLOOD LIMIT

KEY CODES FOR SOIL EROSION & SEDIMENT CONTROL MEASURES

CE	CONSTRUCTION ENTRANCE
DC	DUST CONTROL
F	GEOTEXTILE SILT FENCE
HB	HAY BALE

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

STATE OF CONNECTICUT THOMAS J. BARRESI No. 70085 LICENSED PROFESSIONAL ENGINEER

STATE OF CONNECTICUT THOMAS J. BARRESI No. 70085 LICENSED LAND SURVEYOR

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

BARRESI ASSOCIATES LLC
570 HAYDEN STATION ROAD – UNIT D – WINDSOR, CT 06095
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SPECIAL USE PERMIT SITEPLAN
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120 HIGH STREET
WINDSOR, CONNECTICUT

SCALE: 1 IN = 20 FT

JULY 7, 2023

Sheet 4
Site Prepapration Plan

Plot Date: 8/15/2023

Sheet 5
Layout Plan

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

STATE OF CONNECTICUT
THOMAS J. BARRESI
No. 70065
LICENSED
PROFESSIONAL ENGINEER

STATE OF CONNECTICUT
THOMAS J. BARRESI
No. 70065
LICENSED
LAND SURVEYOR

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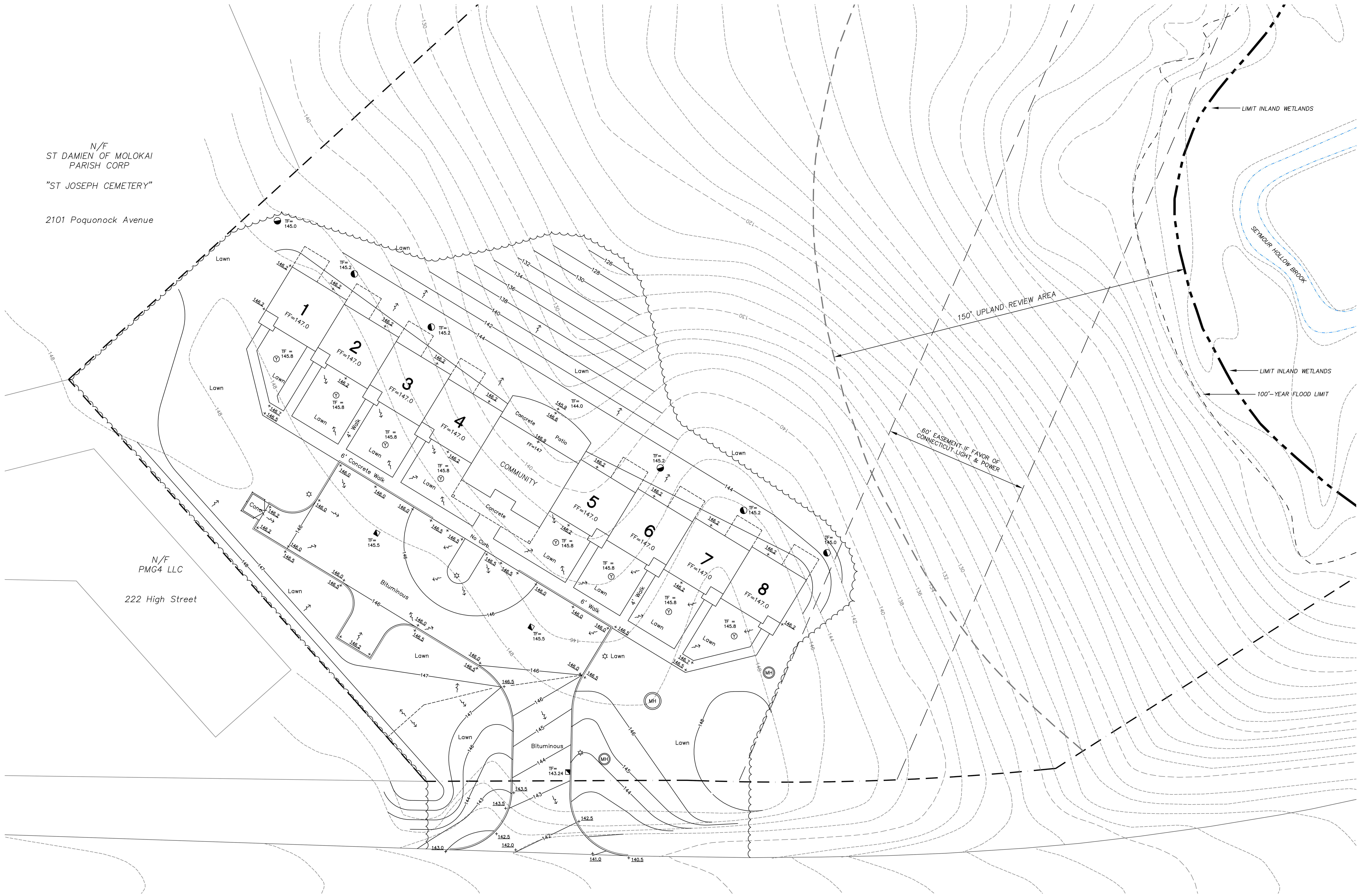

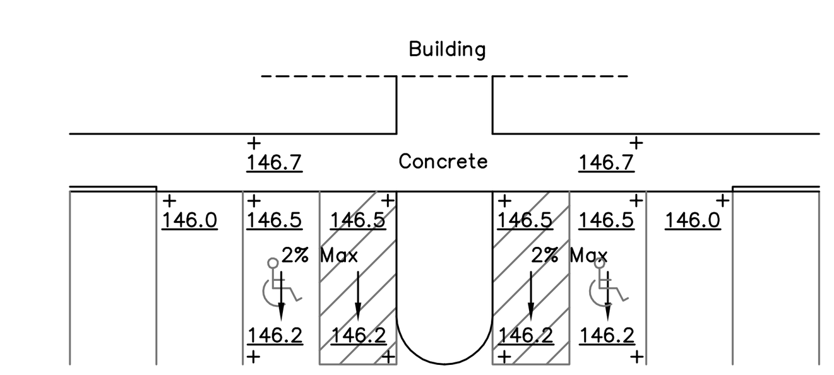

HANDICAP PARKING SPOT GRADES

HANDICAP PARKING SPACES AND
HANDICAP PAVEMENT MARKINGS SHALL
HAVE A MAXIMM GRADE OF 2%.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Sheet 6
Grading Plan

STATE OF CONNECTICUT · THOMAS J. BARRESI · LICENSED PROFESSIONAL ENGINEER · No. 70085

STATE OF CONNECTICUT · THOMAS J. BARRESI · LICENSED LAND SURVEYOR · No. 70085

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N/F
ST DAMIEN OF MOLOKAI
PARISH CORP

"ST JOSEPH CEMETERY"

2101 Poquonock Avenue

N/F
PMG4 LLC

222 High Street

(F/HB): INSTALL SILT FENCE BACKED WITH HAY BALES

(TRM): TURF REINFORCEMENT MAP REQUIRED FOR DISTRUBED AREAS REAR OF BUILDING.

(S): INSTALL SILT SACK

(CE): INSTALL CONSTRUCTION ENTRANCE PAD

DC

LIMIT INLAND WETLANDS

SEYMOUR HOLLOW BROOK

150' UPLAND REVIEW AREA

100'-YEAR FLOOD LIMIT

60' EASEMENT IF FAVOR OF CONNECTICUT LIGHT & POWER

KEY CODES FOR SOIL EROSION & SEDIMENT CONTROL MEASURES

CE	CONSTRUCTION ENTRANCE
DC	DUST CONTROL
F	GEOTEXTILE SILT FENCE
HB	HAY BALE
TSP	TEMPORARY SOIL PROTECTION
WOA	CONCRETE WASHOUT AREA
S	SILT SACK
TRM	TURF REINFORCEMENT MAT
PS	PERMANENT SEEDING

SOIL TYPE

36A WINDSOR LOAMY SAND

Description of Windsor, Loamy Sand

Parent material: Loose sandy glaciofluvial deposits derived from granite and/or loose sandy glaciofluvial deposits derived from schist and/or loose sandy glaciofluvial deposits derived from gneiss

Properties and qualities

Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Low

Sheet 7
Erosion Control Plan

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

STATE OF CONNECTICUT THOMAS J. BARRESI No. 70085 LICENSED PROFESSIONAL ENGINEER

STATE OF CONNECTICUT THOMAS J. BARRESI No. 70085 LICENSED LAND SURVEYOR

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EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

SCALE: 1 IN = 20 FT | JULY 7, 2023

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EROSION AND SEDIMENTATION CONTROL PLAN

REFERENCE IS MADE TO THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002), AS AMENDED, AND TO THE TOWN HIGHWAY ENGINEERING STANDARDS AND SPECIFICATIONS. THE GUIDELINES ARE OBTAINABLE FROM THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, STATE OFFICE BUILDING, HARTFORD, CONNECTICUT 06106, AND SHOULD BE USED AS A REFERENCE IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THESE PLANS.

IN ALL AREAS, REMOVAL OF TREES, BUSHES AND OTHER VEGETATION AS WELL AS DISTURBANCE OF THE SOIL IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.

DURING CONSTRUCTION, EXPOSE AS SMALL AN AREA OF SOIL AS POSSIBLE FOR AS SHORT A TIME AS POSSIBLE.

AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL AND STABILIZE SOIL BY SEEDING AND MULCHING SO AS TO PREVENT EROSION.

THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER AT THE BEGINNING AND END OF EACH STEP OF THE CONSTRUCTION PROCEDURE AND SHALL NOT PROCEED WITH THE NEXT STEP UNTIL THE TOWN ENGINEER HAS INSPECTED THE WORK.

THE STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION OF CONNECTICUT D.O.T. FORM 818 ARE THE OFFICIAL SPECIFICATIONS FOR CONSTRUCTION IN THE TOWN.

SPECIAL PROVISIONS REGARDING WETLANDS AND WATERCOURSES

GENERAL

WHENEVER CONSTRUCTION SHALL TAKE PLACE IN AREAS DESIGNATED AS WETLANDS, REGULATED AREAS OR AREAS TO BE ECOLOGICALLY PROTECTED, THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS CONSTRUCTION METHODS AND SHALL COMPLY WITH THE FOLLOWING REGULATIONS:

ANY PROCEDURES INVOLVING WATERCOURSES SHALL BE CONDUCTED IN SUCH A MANNER AS TO PREVENT INJURY TO PERSONS OR PUBLIC HEALTH, AND TO PREVENT FLOODING OF PUBLIC OR PRIVATE PROPERTY.

ALL EXISTING VEGETATION SHALL BE PROTECTED, AND ONLY THAT CLEARING AND CUTTING WHICH IS ABSOLUTELY NECESSARY FOR THE PROPOSED CONSTRUCTION OR TO CLEAR THE PERMANENT RIGHT-OF-WAY SHALL BE ALLOWED.

ALL REGULATED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOUR EXCEPT AS SHOWN ON THE APPROVED GRADING PLAN.

EXCESS EXCAVATED MATERIAL, INCLUDING THAT RESULTING FROM CLEARING AND GRUBBING, SHALL NOT BE DEPOSITED WITHIN THE REGULATED AREA EXCEPT AS SHOWN ON THE APPROVED GRADING PLAN.

SEDIMENTATION CONTROL

ALL REGULATED AREAS AND WATERCOURSES SHALL BE PROTECTED FROM SEDIMENTATION BOTH DURING AND AFTER CONSTRUCTION. THIS PROVISION APPLIES PARTICULARLY TO DEWATERING ACTIVITIES, STORAGE OF EXCAVATED OR STOCKPILED MATERIAL AND TRENCH OR DITCH EXCAVATION.

WORK WITH REGULATED AREAS

IF PORTIONS OF THIS PROJECT ARE TO BE CONSTRUCTED IN WETLANDS, REGULATED AREAS AND WOODED AREAS, THE INTENT OF THIS CONTRACT IS TO LIMIT DISTURBANCE OF THESE AREAS TO WHAT IS ABSOLUTELY NECESSARY FOR CONSTRUCTION AND TO RESTORE THE AREAS AS CLOSELY AS POSSIBLE TO THEIR ORIGINAL NATURAL STATE. THE DEVELOPER WILL OBTAIN THE NECESSARY PERMIT FROM THE TOWN WETLANDS COMMISSION. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PERMIT, THE MAPS HELD BY THE TOWN INDICATING THE LIMITS OF REGULATED AREAS AND CONDITIONS FOR CONSTRUCTION WITHIN THESE AREAS. THE CONTRACTOR SHALL BE REQUIRED TO STRICTLY ADHERE TO ALL REQUIREMENTS AND RESTRICTIONS IMPOSED BY THE WETLANDS PERMIT.

STRIPPING AND STOCKPILING

THE CONTRACTOR SHALL CAREFULLY STRIP ALL TOPSOIL, LOAM OR ORGANIC MATERIAL PRIOR TO TRENCHING OPERATIONS AND SHALL STORE THEM SEPARATELY FROM ALL OTHER MATERIALS DURING EXCAVATION. IN AREAS DESIGNATED AS REGULATED AREAS, THE UPPER STRATA TO A DEPTH OF 2 FEET SHALL BE STRIPPED AND STORED SEPARATELY. DURING BACKFILLING, THESE MATERIALS SHALL BE REPLACED AND FINISHED AS THEY EXISTED BEFORE CONSTRUCTION BEGAN, EXCEPT FOR SPECIAL ACCESS WAYS AS NOTED ON THE PLANS.

THE CONTRACTOR SHALL NOT INTRODUCE ANY QUANTITIES OF FILL MATERIALS INTO ANY AREAS DESIGNATED AS REGULATED AREAS EXCEPT AS SHOWN ON THE APPROVED GRADING PLANS.

THE CONTRACTOR SHALL MAINTAIN ALL BACKFILLED EXCAVATION IN PROPER CONDITION UNTIL EXPIRATION OF THE MAINTENANCE PERIOD. ALL DEPRESSIONS APPEARING IN THE BACKFILLED EXCAVATION SHALL BE PROPERLY FILLED AND RESEEDED IF NECESSARY.

DISPOSAL OF TREES AND BRUSH

ALL SAPLING TREES AND BRUSH CUT ON THE JOB SHALL BE CHIPPED FOR DISPOSAL. WOOD CHIPS SHALL BE 1/8 INCH NOMINAL THICKNESS WITH NOT LESS THAN 50 PERCENT OF THE CHIPS HAVING AN AREA NOT LESS THAN ONE (1) SQUARE INCH, NOR MORE THAN SIX (6) SQUARE INCHES. THE CHIPS SHALL BE DISPOSED OF BY UNIFORM SPREADING OVER THE PROJECT IN WOODED AREAS DESIGNATED BY THE ENGINEER.

ALL OTHER CUT TREES AND STUMPS SHALL BE REMOVED FROM THE REGULATED AREAS.

TRENCH EXCAVATION AND BACK FILL

CARE SHALL BE TAKEN TO EXCAVATE TO THE CORRECT LINE AND GRADE AND WIDTH AT ALL POINTS. THE METHODS AND EQUIPMENT USED FOR EXCAVATION MUST BE ADAPTED TO THE CONDITIONS AT THE SITE AND THE DIMENSIONS OF THE REQUIRED TRENCH. THE WIDTH OF THE DISTURBED GROUND OR STREET SURFACE, CUT OR DISTURBED, SHALL BE KEPT AS SMALL AS PRACTICABLE TO ACCOMMODATE THE WORK.

TRENCH EXCAVATION BELOW THE TWO FOOT DEPTH WHICH IS TO BE STRIPPED AND STORED SEPARATELY SHALL BE STOCKPILED AND SHALL BE USED AS THE TRENCH BACKFILL MATERIAL IN THE WETLANDS AREA, UNLESS THE ENGINEER DECLARES IT UNSUITABLE FOR BACKFILL MATERIAL. EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN AREA DESIGNATED BY THE ENGINEER.

MINIMIZING STREAM SILTATION

THE CROSSING OF STREAMS WITH UNDERGROUND UTILITIES WILL BE ACCOMPLISHED BY INSTALLING A LARGE DIVERSION PIPE IN THE EXISTING CHANNEL AND THEN TUNNELING UNDER THE BED. ONCE THE UTILITY IS INSTALLED THE DIVERSION PIPE SHALL BE REMOVED LEAVING THE STREAM ESSENTIALLY UNDISTURBED.

SMALL WATERCOURSES THAT CAN BE TEMPORARILY DAMMED UP SHALL BE RESTRICTED WITH BALED HAY, STONES AND/OR TIMBERS TO PREVENT SILTING.

WATER PUMPED FROM POORLY DRAINED AREAS AND THE TRENCH EXCAVATION SHALL BE FREE FROM SILT AND SHALL BE DISCHARGED SO AS TO MINIMIZE TURBULENCE IN ADJACENT WATERCOURSES. IF NECESSARY, WATER SHALL BE DISCHARGED TO SILTATION PONDS PRIOR TO DISCHARGE TO THE STREAM.

RESTORATION

THE FINAL RESTORATION AND RESEEDING SHALL BE DONE IN ACCORDANCE WITH OTHER SPECIFICATIONS IN THIS CONTRACT.

EROSION AND SEDIMENTATION CONTROL MEASURES

F.. SYNTHETIC FILTER BARRIER FENCE AS SPECIFIED IS TO BE INSTALLED AT ALL LOCATIONS AS INDICATED ON THE PLANS TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE DRAINAGE SYSTEM, WETLANDS OR WATERCOURSES. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR TO BE USED AS FILL IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. THE FENCE IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE FENCE IS TO REMAIN IN PLACE AND TO BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE FENCE ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

RR.. RIP-RAP AS SPECIFIED IS TO BE INSTALLED AT THESE POINTS AS ENERGY DISSIPATION STRUCTURES. THE RIP-RAP IS TO BE INSTALLED BEFORE THE OUTLET STRUCTURES ARE ACTIVATED AND ALL ADJACENT AREAS ARE TO BE IMMEDIATELY SEEDED IF IN SEASON, OR THE SOIL IS TO BE STABILIZED BY OTHER METHODS. THIS MAY REQUIRE SODDING OR MULCHING OR OTHER METHODS AS DEFINED IN THE "GUIDELINES".

ESTABLISHING VEGETATION COVER ON DISTURBED AREAS

1. SCARIFY SURFACE OF ALL AREAS TO BE TOPSIDE AND PLACE A MINIMUM OF 4" OF TOPSOIL ON ALL AREAS TO BE SEEDED.
2. APPLY LIME AT A RATE OF TWO TONS OF GROUND LIMESTONE PER ACRE. (100 LBS./1000 SQ. FT.)
3. FERTILIZE
   a) FOR SPRING SEEDING, APPLY 10-10-10 FERTILIZER AT A RATE OF 300 LBS. PER ACRE (7 LBS./1000 SQ. FT.) AND WORK INTO SOIL. SIX TO EIGHT WEEKS LATER, APPLY AN ADDITIONAL 300 LBS. PER ACRE ON THE SURFACE.
   b) FOR FALL SEEDING, APPLY 10-10-10 FERTILIZER AT A RATE OF 600 LBS. PER ACRE (14 LBS./1000 SQ. FT.) AND WORK INTO SOIL.
4. SMOOTH AND FIRM SEEDBED, APPLY SEED UNIFORMLY AT THE RATE SPECIFIED FOR THE SEED TYPE AND COVER SEED WITH NOT MORE THAN 1/4" OF SOIL.
5. MULCH IMMEDIATELY WITH HAY FREE FROM WEAK SEEDS, AT A RATE OF 3 BALES PER 1000 SQ. FT.
6. PERMANENT SEEDINGS, WHERE AN AREA WILL BE EXPOSED FOR MORE THAN ONE YEAR, OR WHERE FINAL GRADING IS COMPLETE,

THIS SEED MIX IS SPECIFICALLY FOR ALL DISTURBED AREAS NOT SPECIFIED ON SHEETS 12 & 13.

AREA WHERE SEED MIX APPLIES	SEEDING MIXTURE BY WEIGHT	RATE PER 1000 SQ. FT.	SEEDING DATES
ALL LAWN AREAS	CREEPING RED FESCUE KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	0.45 LB 0.45 LB 0.10 LB 1.00 LB	APRIL 15 – JUNE 15 OR AUGUST 15 – SEPT 15
ROAD CUTS & FILLS AND DIVERSION DITCHES	CREEPING RED FESCUE REDTOP TALL FESCUE OR SMOOTH BROMEGRASS	0.45 LB 0.05 LB 0.45 LB 0.95 LB	APRIL 15 – JUNE 15 OR AUGUST 15 – SEPT 15
VERY STEEP SLOPES	CREEPING FESCUE REDTOP CROWN VETCH	0.45 LB 0.05 LB 0.35 LB 0.85 LB	APRIL 15 – JUNE 15 OR AUGUST 15 – SEPT 15
NO MAINTENANCE AREAS	NEW ENGLAND CONSERVATION/WILDLIFE MIX	1,750 SF/LB or 0.57 LB/1,000 SF	APRIL 15 – JUNE 15 OR AUGUST 15 – SEPT 15

IF TREES ARE TO BE RETAINED, THE SEED MIX SHOULD BE ADAPTED FOR SHADY CONDITIONS.

7. TEMPORARY SEEDING: TO PROTECT THE SOIL OVER THE WINTER.

SPECIES	RATE/1000 SQ. FT.	OPTIMUM SEEDING DATE[1,3]	OPTIMUM SEED DEPTH[2]
ANNUAL RYEGRASS	1.0	3/1 – 6/15 8/1 – 10/1	0.5
PERENNIAL RYEGRASS	1.0	3/15 – 6/15 8/15 – 10/1	0.5
WINTER RYE	3.0	4/15 – 6/15 8/15 – 10/1	1.0
OATS	2.0	3/1 – 6/15 8/1 – 10/1	1.0
WHEAT	3.0	4/1 – 6/15 8/15 – 10/1	1.0
MILLET	0.5	6/1 – 7/1 5/15 – 8/15	1.0
SUDANGRASS	0.7	5/15 – 8/15	1.0
BUCKWHEAT	0.4	4/1 – 9/15	1.0
WEEPING LOVEGRASS	0.2	6/1 – 7/1	0.25

1 MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR CAN BE IRRIGATED.
2 SEED AT TWICE THE INDICATED DEPTH FOR SANDY SOIL.
3 THE FALL SEEDING DATES MAY BE EXTENDED 15 DAYS IN THE COASTAL TOWNS OF NEW LONDON, MIDDLESEX, NEW HAVEN AND FAIRFIELD COUNTIES.

SOURCE: U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, STORRS, CONN.

ORGANIC MULCH MATERIALS AND APPLICATION RATES

MULCHES	RATES PER ACRE	RATES PER 1000 SQ.FT.[2]	NOTES
STRAW OR HAY	1 1/2 – 2 TONS	70 – 90 LBS. HAND.	FREE FROM WEEDS AND COARSE MATTER. MUST BE ANCHORED. SPREAD WITH MULCH BLOWER OR BY
WOOD FIBER	1000 – 2000 LBS.	25 – 50 LBS. SLURRY.	FIBERS 4MM OR LONGER. DO NOT USE ALONE IN WINTER OR DURING HOT, DRY WEATHER. APPLY AS
CORN STALKS	4 – 6 TONS	185 – 275 LBS.	CUT OR SHREDDED IN 4–6 INCH LENGTHS. AIR DRIED. DO NOT USE IN FINE TURF AREAS. APPLY WITH MULCH BLOWER OR BY HAND.

2 SEED AT TWICE THE INDICATED DEPTH FOR SANDY SOIL.

INSTALLATION REQUIREMENTS FOR ORGANIC MULCHES

ORGANIC MULCHES MAY BE USED IN ANY AREA WHERE MULCH IS REQUIRED, SUBJECT TO THE RESTRICTIONS NOTED IN FIGURE 7-1.

1. MATERIALS

   SELECT MULCH MATERIAL BASED ON SITE CONDITIONS, AVAILABILITY OF MATERIALS, AND LABOR AND EQUIPMENT. FIGURE 7-1 LISTS THE MOST COMMONLY USED ORGANIC MULCHES. OTHER MATERIALS MAY BE USED WITH THE PERMISSION OF THE APPROVING AUTHORITY.

2. PRIOR TO MULCHING

   COMPLETE THE REQUIRED GRADING AND INSTALL NEEDED SEDIMENT CONTROL MEASURES.

3. APPLICATION

   MULCH MATERIALS SHALL BE SPREAD UNIFORMLY, BY HAND OR MACHINE.

   APPROXIMATELY 1000 SQUARE FOOT SECTIONS AND PLACE 70-90 LBS (1-1/2 TO 2 BALES) OF STRAW OR WHEN SPREADING STRAW OR HAY MULCH BY HAND, DIVIDE THE AREA TO BE MULCHED INTO

   HAY IN EACH SECTION TO INSURE UNIFORM DISTRIBUTION.

4. ORGANIC MULCH ANCHORING

   STRAW OR HAY MULCH MUST BE ANCHORED IMMEDIATELY AFTER SPREADING TO PREVENT WINDBLOWING. OTHER ORGANIC MULCHES DO NOT REQUIRE ANCHORING. THE FOLLOWING METHODS OF ANCHORING STRAW OR HAY MAY BE USED.

   A. MULCH ANCHORING TOOL

      THIS IS A TRACTOR-DRAWN IMPLEMENT DESIGNED TO PUNCH MULCH INTO THE SOIL SURFACE. THIS METHOD PROVIDES MAXIMUM EROSION CONTROL WITH STRAW. IT IS LIMITED TO USE ON SLOPES NO STEEPER THAN 3 TO 1 (3 HORIZONTALLY TO 1 VERTICALLY), WHERE EQUIPMENT CAN OPERATE SAFELY. MACHINERY SHALL BE OPERATED ON THE CONTOUR.

   B. TRACKING

      APPLY MULCH AND DRIVE TRACKED EQUIPMENT UP AND DOWN SLOPE OVER ENTIRE SURFACE SO CLEAT MARKS ARE PARALLEL TO CONTOUR.

   C. MULCH NETTINGS

      INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE

ALL MULCHES MUST BE INSPECTED PERIODICALLY. IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. NETTING SHOULD BE INSPECTED AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, REINSTALL NETTING AS NECESSARY AFTER REPAIRING DAMAGE TO THE SLOPE. INSPECTIONS SHOULD TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED. GRASSES SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO CONTROL SOIL EROSION AND TO SURVIVE SEVERE WEATHER CONDITIONS. WHERE MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTING, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE; REPAIR AS NEEDED.

BUILDING & SITE CONSTRUCTION SEQUENCE

1. INSTALL SILT FENCE AND HAY BALES AS NECESSARY TO PROTECT DOWN GRADIENT AREAS.
2. STRIP AREAS TO BE CUT AND FILLED BEING CAREFUL TO CONTROL DUST AT ALL TIMES.
3. ROUGH GRADE SITE. SPREAD EXCESS MATERIAL IN AREAS TO BE FILLED AS SHOWN ON APPROVED PLANS.
4. EXCAVATE FOR BUILDING FOUNDATION AND ROUGH GRADE BUILDING AREA; CONSTRUCT BUILDING FOUNDATION.
5. BOX OUT ACCESS DRIVES AND PARKING AREAS.
6. INSTALL STORMWATER DRAINAGE SYSTEM.
7. INSTALL UTILITIES (WATER SERVICE, SANITARY SEPTIC SYSTEM, GAS SERVICE, ELECTRIC, ETC.)
8. INSTALL PAVEMENT BASE.
9. FINE GRADE AND COMPACT PAVEMENT BASE MATERIAL.
10. INSTALL FIRST COURSE OF BITUMINOUS.
11. INSTALL EXTERIOR LIGHTING.
12. INSTALL LANDSCAPING.
13. INSTALL BITUMINOUS CURBING.
14. PLACE TOPSOIL ON REMAINING DISTURBED AREAS.
15. RAKE, SEED AND FERTILIZE ALL LAWN AREAS WITHIN AREA OF PROPOSED DEVELOPMENT.
16. APPLY TACK COAT AND INSTALL FINISHED COURSE OF PAVEMENT.
17. INSTALL ALL PAVEMENT MARKINGS & SIGNAGE.
18. REMOVE ALL EROSION CONTROLS ONCE ALL UPGRADIENT AREAS ARE STABILIZED.
19. CLEAN ALL CATCH BASINS ON-SITE. CATCH BASINS SHALL BE CLEANED WHEN CONSTRUCTION IS COMPLETE WITH A COPY OF THE INVOICE TO THE WETLANDS AGENT BEFORE A C/O IS ISSUED.

SOIL EROSION & SEDIMENTATION CONTROL NARRATIVE

1. DEVELOPMENT TYPE:

CONSTRUCT NEW RESIDENTIAL BUILDING, PARKING AND ACCESS DRIVE WITH RELATED INFRASTRUCTURE TO A VACANT PARCEL.

2. SCHEDULE:

EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PER THE BUILDING & SITE CONSTRUCTION SEQUENCE ON THIS PLAN. ADDITIONAL SEDIMENTATION CONTROLS ARE TO BE INSTALLED BY THE CONTRACTOR AS REQUESTED BY THE TOWN WETLANDS AGENT AS ARE NECESSARY TO CONTROL EROSION AND PROTECT THE SITE AND ADJACENT PROPERTIES FROM SEDIMENTATION.

3. INSTALLATION REQUIREMENTS:

SEE EROSION CONTROL DETAILS FOR APPROPRIATE CONSTRUCTION AND INSTALLATION REQUIREMENTS FOR EROSION CONTROLS.

4. MAINTENANCE REQUIREMENTS:

THE DEVELOPER SHALL MAINTAIN AND REPLACE ALL EROSION CONTROLS AS NECESSARY TO CONTROL EROSION AND PROTECT THE SITE AND ADJACENT PROPERTIES FROM SEDIMENTATION. CONTRACTOR SHALL HAVE PROVISIONS STORED ON SITE FOR EMERGENCY SOIL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING STOCKPILES OF HAY BALES, STAKES, CRUSHED STONE AND SILT FENCE; PROCEDURES AND CONSTRUCTION METHODS.

CONSTRUCTION AND EROSION CONTROL WASTES:

Waste control

– All waste or discarded building materials shall be stockpiled in the waste building material storage area as shown on the plans. All such material shall be removed from the site at the completion of construction of the building and disposed of in accordance with all local, state and federal regulations, ordinances and laws. No such material shall be buried or otherwise left on the site.

– All litter shall be collected from the site at the end of the working day and stored in metal containers with lids or removed from the site.

– All sediment retained by silt fence or other erosion controls shall be removed from the silt fence or erosion control and buried on site in an area outside of the 150' Wetlands Regulated Area.

– All waste material including waste water and concrete truck wash-out water shall be disposed of in accordance with all local, state and federal regulations, ordinances and laws.

Contingency erosion control provisions

– The developer/contractor shall maintain a minimum of 100 feet of silt fence and 20 hay bales and 40 wooden stakes on site for use in repairing, replacing, or backing up the silt fence in the event of a failure of the silt fence or to contain surface flow to any developing erosion scars.

POST CONSTRUCTION INSPECTION & MAINTENANCE:

GENERAL:

INSPECT SITE AFTER A RAINFALL OF 1" OR MORE IN 24 HOURS TO CHECK FOR EROSION SCARS, SILT, SEDIMENT AND OTHER DEBRIS, STRUCTURAL INTEGRITY OF RETENTION AREAS AND OPERATION OF STORM SYSTEM OUTLET PROTECTION. EROSION SCARS SHALL BE REPAIRED AND STABILIZED. SILT, SEDIMENT AND OTHER DEBRIS SHALL BE REMOVED AND DISPOSED OF APPROPRIATELY. ANY STRUCTURAL OR OPERATIONAL DEFICIENCY SHALL BE CORRECTED TO RETURN THE RETENTION BASIN, STORM SYSTEM OR OTHER ITEM TO A CONDITION CONSISTENT WITH THESE PLANS. INSPECTIONS SHALL CONTINUE UNTIL THESE AREAS AND ANY OTHER DISTURBED AREAS ARE STABILIZED.

PARKING AREA SURFACE CLEANING:

ALL PAVED PARKING AREAS SHALL BE SWEPT BETWEEN APRIL 1ST AND JUNE 1ST, AND AGAIN BETWEEN SEPTEMBER 15TH AND OCTOBER 15TH

CATCH BASINS:

ALL CATCH BASINS SHALL BE INSPECTED ANNUALLY BETWEEN MAY 1ST AND SEPTEMBER 15TH AND SUMPS SHALL BE CLEANED WHEN THE DEPTH OF ACCUMULATED MATERIAL EXCEEDS ONE (1) FOOT. ACCUMULATED SAND, DIRT AND DEBRIS SHALL BE DISPOSED OF IN A PROPER MANNER.

STORM DRAINAGE PIPES AND STRUCTURES:

ALL STORM DRAINAGE STRUCTURES AND PIPES SHALL BE KEPT IN WORKING CONDITION.

MOWING:

SWALES & WETLAND/STORMWATER RETENTION AREAS SHALL BE MOWED DURING THE FIRST WEEK OF JULY AND THE LAST WEEK OF SEPTEMBER OF EACH YEAR.

EROSION AND SEDIMENTATION CONTROL CHECKLIST

PROJECT: SPECIAL USE SITE PLAN
LOCATION: 120 HIGH STREET
PROJECT DESCRIPTION: NEW RESIDENTIAL BUILDING AND RELATED INFRASTRUCTURE
PARCEL AREA: 5.4 ACRES

RESPONSIBLE PERSONNEL:

PETER SINETOS 516-233-5051
460-C Sunrise Highway
West Babylon, NY 11704

EROSION AND SEDIMENT CONTROL PLAN PREPARER:

BARRESI ASSOCIATES LLC (860) 219-9260
570 HAYDEN STATION ROAD
WINDSOR, CONNECTICUT 06095

CHECKLIST:

WORK DESCRIPTION Erosion & Sediment Control Measures	LOCATION	DATE INSTALLED	INITIALS	DATE REMOVED	INITIALS
ENTRANCE PAD	HIGH STREET				
SILT FENCE	TOE OF SLOPES				
	STOCKPILES				
HAY BALES	TOE OF SLOPES				
SILT SACK	DRAINAGE STRUCTURES				
TOPSOIL, MULCH & SEED	ALL DISTURBED AREAS				

MAINTENANCE OF MEASURES:

LOCATION	DESCRIPTION OR NUMBER	DATE	INITIALS
HIGH STREET	ENTRANCE PAD		
TOE OF SLOPES	SILT FENCE		
	HAY BALES		
DRAINAGE STRUCTURES	SILT SACK		
STOCKPILES	SILT FENCE		
ALL DISTURBED AREAS	TOPSOIL, MULCH & SEED		

PROJECT DATES:

DESCRIPTION	DATE	INITIALS
DATE OF GROUNDBREAKING FOR PROJECT		
DATE OF FINAL STABILIZATION		

SITE EROSION CONTROLS AND INSPECTION REQUIREMENTS

1. EROSION & SEDIMENTATION CONTROL MEASURES (SILT FENCING, SEDIMENT TRAPS, DIVERSIONS SWALES, ETC.) MUST BE INSTALLED PRIOR TO ANY MAJOR CLEARING AND/OR GRUBBING OF THE SITE.
2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES, (INCLUDING BUT NOT LIMITED TO DISTURBED/UNSTABLE AREAS, CATCH BASIN SUMPS, DETENTION BASINS, OUTLET CONTROLS AND TEMPORARY SEDIMENTATION TRAPS) ARE TO BE INSPECTED ON A WEEKLY BASIS AND AFTER A RAINFALL OF 0.1 INCHES OR MORE.
3. A WEEKLY INSPECTION REPORT/CHECKLIST IS TO BE COMPLETED AND KEPT ON FILE ON SITE AND PROVIDED, ON A WEEKLY BASIS, TO THE TOWN OF WINDSOR ENGINEERING DEPARTMENT.
4. EACH INSPECTION REPORT/CHECKLIST SHALL PROVIDE A RECOMMENDED CORRECTIVE ACTION FOR EROSION AND SEDIMENTATION CONTROL IMPROVEMENTS, AND A DATE THE RECOMMENDED CORRECTIVE ACTION IS COMPLETED.
5. AN INSPECTION OF THE CATCH BASINS, DETENTION POND, SWALES AND OTHER PORTIONS OF THE STORM WATER MANAGEMENT SYSTEM SHALL BE MADE 12 MONTHS AFTER THE INITIAL CLEANING OF THESE STRUCTURES TO DETERMINE THE NEED FOR ADDITIONAL MAINTENANCE AND CLEANING. ADDITIONAL INSPECTIONS SHALL BE MADE EVERY 12 MONTHS. A REPORT SHALL BE SUBMITTED ANNUALLY TO THE ENGINEERING DEPARTMENT FOR INCLUSION IN THE TOWN'S FILE STATING THE RESULTS OF THE INSPECTION, THE CLEANING AND MAINTENANCE PERFORMED AND THAT THE SILT, SEDIMENT AND OTHER DEBRIS WAS PROPERLY DISPOSED OF OFFSITE.
6. IN AREAS WHERE CONSTRUCTION IS NOT ACTIVE, ALL DISTURBED SOILS ARE TO BE STABILIZED BY TEMPORARY OR PERMANENT SEEDING OF THE DISTURBED AREAS BETWEEN MAY 1ST AND JUNE 15TH OR BETWEEN AUGUST 15TH AND OCTOBER 15TH OF EACH YEAR.
7. CONTRACTOR SHALL PRACTICE EFFECTIVE SOIL EROSION AND SEDIMENT CONTROL, INCLUDING DUST CONTROL PER THE CT EROSION CONTROL MANUAL DURING CONSTRUCTION AND UNTIL ALL AREAS ARE STABILIZED OR SURFACE TREATED. A MOBILE WATER TANK SHALL BE KEPT ON SITE DURING CONSTRUCTION AND USED TO CONTROL DUST.
8. ALL CONSTRUCTION SHALL CONFORM TO THE MATERIALS, CONSTRUCTION METHODS AND TESTING REQUIREMENTS OF THE CONNDOT FORM 816, AND TOWN OF WINDSOR STANDARD DETAILS, UNLESS OTHERWISE SPECIFIED ON THESE PLANS. CONSTRUCTION SEQUENCE
9. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF GREATER THAN 1 INCH RAINFALL.
10. ACCUMULATED SEDIMENT SHALL BE REMOVED AS REQUIRED TO KEEP SILT FENCE FUNCTIONAL. IN ALL CASES, DEPOSITS SHALL BE REMOVED WHEN THE ACCUMULATED SEDIMENT HAS REACHED ONE-HALF ABOVE THE GROUND HEIGHT OF THE SILT FENCE.
11. SOIL STABILIZATION SHALL BE COMPLETED WITHIN FIVE (5) DAYS OF CLEARING ACTIVITIES.

KEY CODES FOR SOIL EROSION & SEDIMENT CONTROL MEASURES

CE	CONSTRUCTION ENTRANCE
DC	DUST CONTROL
F	GEOTEXTILE SILT FENCE
HB	HAY BALE
TSP	TEMPORARY SOIL PROTECTION
WOA	CONCRETE WASHOUT AREA
S	SILT SACK
TRM	TURF REINFORCEMENT MAT
PS	PERMANENT SEEDING

Sheet 8
Sedimentation & Erosion Control Notes

STATE OF CONNECTICUT · THOMAS J. BARRESI · No. 70085 · LICENSED PROFESSIONAL ENGINEER

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

BARRESI ASSOCIATES LLC
570 HAYDEN STATION ROAD – UNIT D – WINDSOR, CT 06095
(860) 219-9260 www.barresillc.com

DATE	REVISION
8/15/23	Per Town Engineer

SPECIAL USE PERMIT SITEPLAN
PREPARED FOR
EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

SCALE: NONE | JULY 7, 2023

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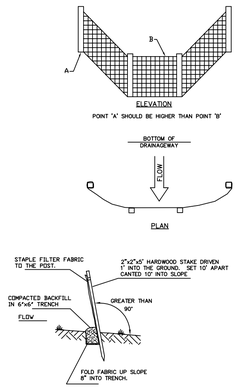
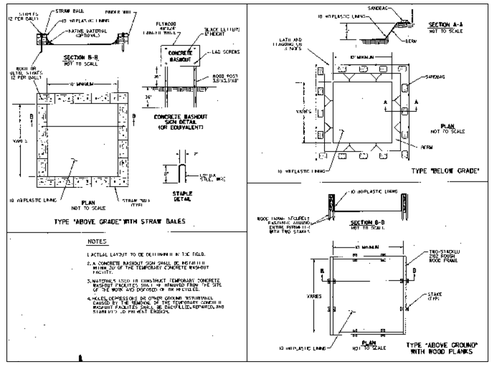
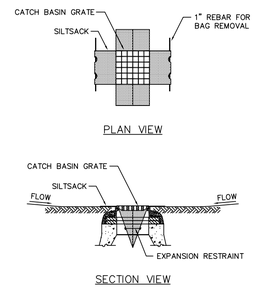


(F) GEOTEXTILE SILT FENCE



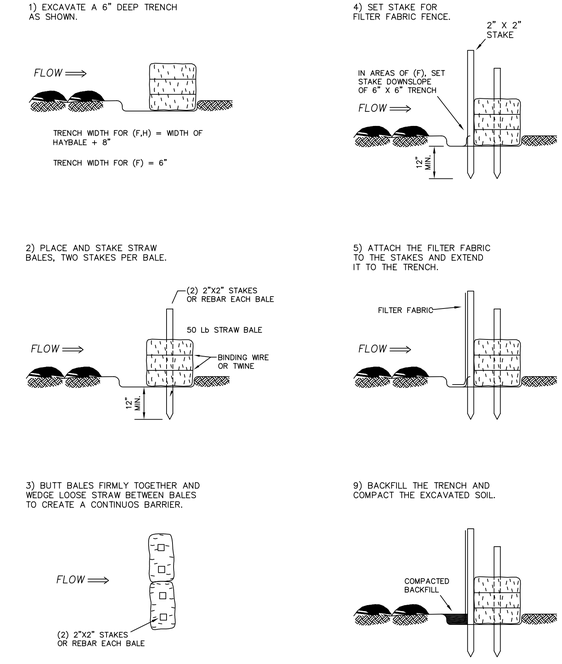
(WOA) CONCRETE WASHOUT AREA



NOTES:

1. INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
2. GRATE TO BE PLACED OVER SILTSACK.
3. SILTSACK SHALL BE INSPECTED WEEKLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED

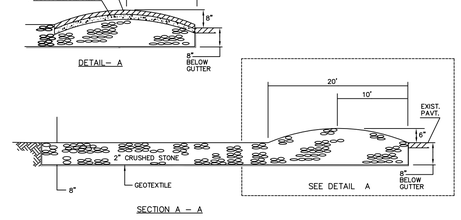
(S) SILT SACK AT CATCH BASIN

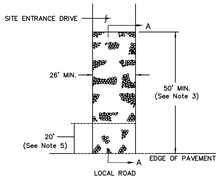


NOTES:

1. FILTER FABRIC FENCE BACKED WITH A ROW OF HAY BALES IS TO BE INSTALLED AS SHOWN ON EROSION CONTROL PLANS BY SYMBOL F,H.
2. FILTER FABRIC FENCE IS TO BE INSTALLED AS SHOWN ON EROSION CONTROL PLANS BY SYMBOL F.
3. HAY BALES SHALL BE MAINTAINED AND/OR REPLACED AS REQUIRED OR AS DIRECTED BY THE TOWN ENGINEER.
4. PLACE HAY BALES SUCH THAT TWINE OR BINDING WIRE IS PARALLEL TO THE EXISTING GROUND.
5. IN AREAS OF FILTER FABRIC FENCE (F), ELIMINATE STEPS 2 AND 3.

(F/HB) FILTER FABRIC FENCE BACKED WITH A ROW OF HAY BALES

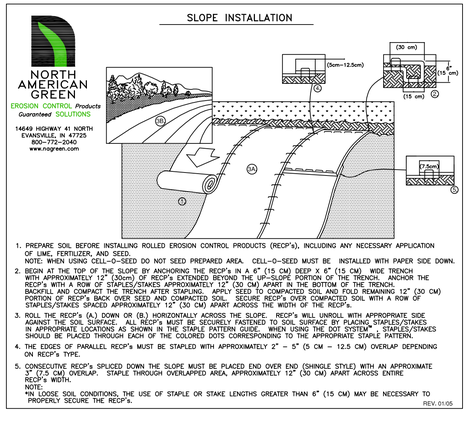




NOTES:

1. THIS ENTRANCE PAD SHALL BE CONSTRUCTED PRIOR TO ANY CLEARING AND GRUBBING ACTIVITIES.
2. MAINTAIN ANTI-TRACKING SYSTEM IN GOOD CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
3. THE LENGTH OF THE ENTRANCE PAD SHALL BE INCREASED IF NECESSARY TO CONTROL THE TRACKING ONTO LOCAL ROADWAYS.
4. THE LOCAL ROADWAY SHALL BE SWEPT AS NECESSARY TO REMOVE ANY MATERIALS THAT HAVE BEEN TRACKED FROM THE SITE ENTRANCE DRIVE.
5. IF THE CONSTRUCTION SITE ENTRANCE WILL BE USED FOR MORE THAN 3 MONTHS, OR IF CONDITIONS REQUIRE, AND AS DIRECTED BY THE ENGINEER, THE SITE ENTRANCE DRIVE SHALL BE PAVED FOR THE FIRST 20 FEET.

(CE) CONSTRUCTION ENTRANCE PAD



TO BE USED ON ALL SLOPES STEEPER THAN 3:1

(TRM) TURF REINFORCEMENT MAT

STATE OF CONNECTICUT
THOMAS J. BARRESI
No. 70085
LICENSED PROFESSIONAL ENGINEER

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS

BARRESI ASSOCIATES LLC

DATE	REVISION
8/15/23	Per Town Engineer

SPECIAL USE PERMIT SITEPLAN
PREPARED FOR
EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

SCALE: NONE | JULY 7, 2023

N/F
ST DAMIEN OF MOLOKAI
PARISH CORP

"ST JOSEPH CEMETERY"

2101 Poquonock Avenue

N/F
PMG4 LLC

222 High Street

Existing Vegetation

Lawn

YARD DRAIN 63
TF=145.0 [Overflow TF]
18"ø PERF. HDPE
FL=140.5

(FACE YD to FACE YD)
36' – 18"ø PERF. HDPE
ABSORPTION TRENCH @ 0.0%

YARD DRAIN 62
TF=145.2
18"ø PERF. HDPE
FL=140.0

(FACE YD to FACE YD)
36' – 18"ø PERF. HDPE
ABSORPTION TRENCH @ 0.0%

YARD DRAIN 61
TF=145.2
18"ø PERF. HDPE
FL=140.0

UNIT 1
UNIT 2
UNIT 3
UNIT 4
UNIT 5
UNIT 6
UNIT 7
UNIT 8
COMMUNITY
Deck
Concrete
Patio
Concrete Walk

YARD DRAIN 41
TF=145.80
24"ø FL=140.5

36' – 24"ø HDPE

YARD DRAIN 42
TF=145.80
24"ø FL=140.5

Sanitary Septic Lateral

YARD DRAIN 44
TF=145.80
24"ø FL=140.5
12"ø HDPE
FL=143.2

YARD DRAIN 33
TF=145.80
24"ø FL=140.5

YARD DRAIN 51
TF=145.80
24"ø FL=140.5

YARD DRAIN 52
TF=145.80
24"ø FL=140.5

YARD DRAIN 53
TF=145.80
24"ø FL=140.5

YARD DRAIN 71
TF=145.2
18"ø PERF. HDPE
FL=140.0

(FACE YD to FACE YD)
36' – 18"ø PERF. HDPE
ABSORPTION TRENCH @ 0.0%

YARD DRAIN 72
TF=145.2
18"ø PERF. HDPE
FL=140.0

(FACE YD to FACE YD)
36' – 18"ø PERF. HDPE
ABSORPTION TRENCH @ 0.0%

YARD DRAIN 73
TF=145.0
[Overflow TF]
18"ø PERF. HDPE
FL=140.5

YARD DRAIN 54
TF=145.80
24"ø HDPE
OUT FL=140.5
12"ø HDPE
OVERFLOW PIPE
OUT FL=143.2

TEST PIT
5

TEST PIT
6

TEST PIT

Septic
MH

Septic
Tank

CATCH BASIN 1
TF=145.50
12"ø SOLID HDPE
IN/OUT FL=142.5

36' – 12"ø
SOLID HDPE @
1.94%

Bituminous

75' – 12"ø SOLID HDPE @ 1.0%

CATCH BASIN 2
TF=145.50
12"ø HDPE
IN FL=141.75
36"ø SOLID HDPE
OUT FL=140.0

12'–36"ø SOLID
HDPE @ 0.0%

42' – 36"ø PERF. HDPE
STONE ABSORPTION
TRENCH @ 0.0%

14' – 12"ø SOLID
HDPE @ 3.57%

MH 22
TF=147.0
12"ø HDPE
IN FL=142.70
36"ø HDPE
FL=140.0

MH 21
[6.0' ø MH]
TF=147.0
36"ø FL=140.0

44' – 36"ø PERF. HDPE
STONE ABSORPTION
TRENCH @ 0.0%

MH YD 23
TF=144.8
36"ø FL=140.0

26' – 36"ø PERF. HDPE
STONE ABSORPTION
TRENCH @ 0.0%

W(D): PROPOSED
DOMESTIC WATER
SERVICE

W(F): PROPOSED FIRE
WATER SERVICE

W (D)

W (F)

11'

METER
PIT

M

TYPE "C"
CATCH BASIN 3
TF=143.24
18"ø HDPE
OUT FL=139.0

WG

12' – 18"ø SOLID
HDPE @ 0.0%

20' – 18"ø PERF. HDPE
STONE ABSORPTION
TRENCH @ 0.0%

PROPOSED 8"ø D.I. WATER MAIN EXTENSION

W

WG RD

BO

15'

150' UPLAND REVIEW AREA

60' EASEMENT IF FAVOR OF
CONNECTICUT LIGHT & POWER

LIMIT INLAND WETLANDS

SEYMOUR HOLLOW BROOK

LIMIT INLAND WETLANDS

100'–YEAR FLOOD LIMIT

SEE THE FOLLOWING SHEETS FOR ADDITIONAL DESIGN DETAILS

Sheet 10
Utility Plan

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

STATE OF CONNECTICUT
THOMAS J. BARRESI
No. 70085
LICENSED
PROFESSIONAL ENGINEER

STATE OF CONNECTICUT
THOMAS J. BARRESI
No. 70085
LICENSED
LAND SURVEYOR

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

BARRESI
ASSOCIATES LLC

570 HAYDEN STATION ROAD – UNIT D – WINDSOR, CT 06095
(860) 219–9260 www.barresillc.com

DATE	REVISION
8/15/23	Per Town Engineer

SPECIAL USE PERMIT SITEPLAN
PREPARED FOR
EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

SCALE: 1 IN = 20 FT

JULY 7, 2023

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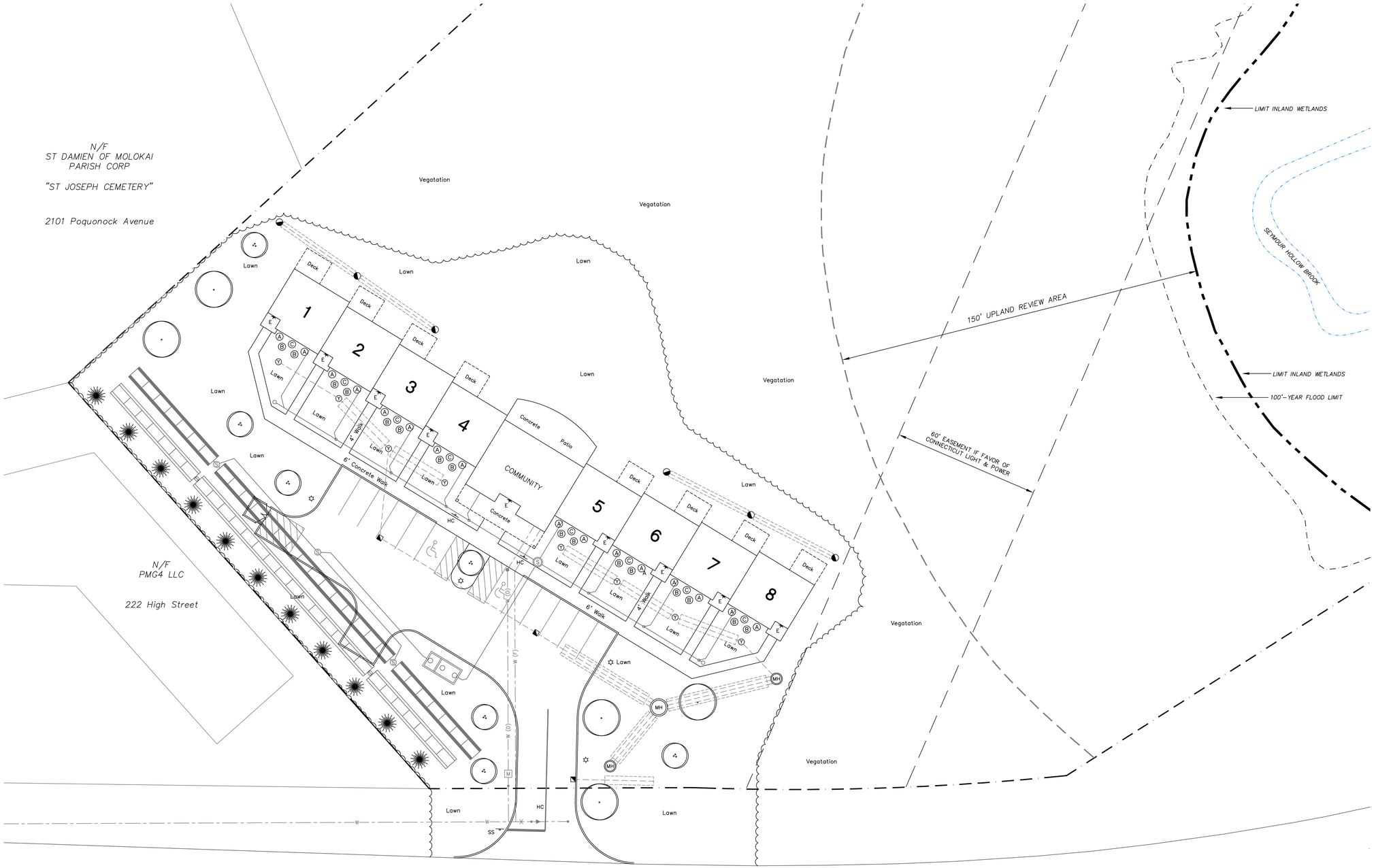

SITE PLANTING LIST			
SYMBOL	DESCRIPTION	QUANTITY	SIZE
•	ACER RUBRUM RED MAPLE ACER SACCHARUM SUGAR MAPLE QUERCUS MUEHLENBERGII CHINKAPIN OAK LIQUIDAMBAR STYRACIFLUA AMERICAN SWEETGUM	5	2.5" cal
∴	MALUS ZUMI CALOCARPA ZUMI CRABAPPLE PYRUS CALLERYANA "CHANTICLEER" CHANTICLEER PEAR CORNUS FLORIDA FLOWERING DOGWOOD PRUNUS AMERICANA AMERICAN PLUM AMELANCHIER CANADENSIS SHADBLOW SERVICEBERRY	6	2.5" cal
✹	PINUS NIGRA AUSTRIAN PINE TSUGA CANADENSIS CANADIAN HEMLOCK	11	5-6' HT.
Ⓐ	RHODODENDRON CATAWBIENSE ALBUM CATAWBA RHODODENDRON RHODODENDRON PJM PJM RHODODENDRON	8	24"
Ⓑ	JUNIPERUS PLUMOSA COMPACTA ANDORRA JUNIPER JUNIPERUS CHIN. PFITZ. COMPACTA COMPACT PFITZER JUNIPER	8	15" - 18"
Ⓒ	WEIGELA FLORIDA OLD FASHIONED WEIGELA	4	24"

LIGHTING LEGEND	
E	DECORATIVE WALL MOUNTED ENTRY LIGHT
☼	STANDARD DECORATIVE TOWN VILLAGE CENTER STREETSCAPE LIGHT FIXTURE (CL&P STANDARD DECORATIVE LIGHT WITH 15' HIGH POLE & 8,500 LUMEN WATT LUMINAIRE)

HC = HANDICAP SIGN

SS = STOP SIGN

Sheet 11
Landscape & Lighting Plan

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

STATE OF CONNECTICUT THOMAS J. BARRESI No. 70085 LICENSED PROFESSIONAL ENGINEER

STATE OF CONNECTICUT THOMAS J. BARRESI No. 70085 LICENSED LAND SURVEYOR

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

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570 HAYDEN STATION ROAD - UNIT D - WINDSOR, CT 06095
(860) 219-9260 www.barresillc.com

DATE	REVISION
8/15/23	Per Town Engineer

SPECIAL USE PERMIT SITEPLAN
PREPARED FOR
EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

SCALE: 1 IN = 20 FT | JULY 7, 2023

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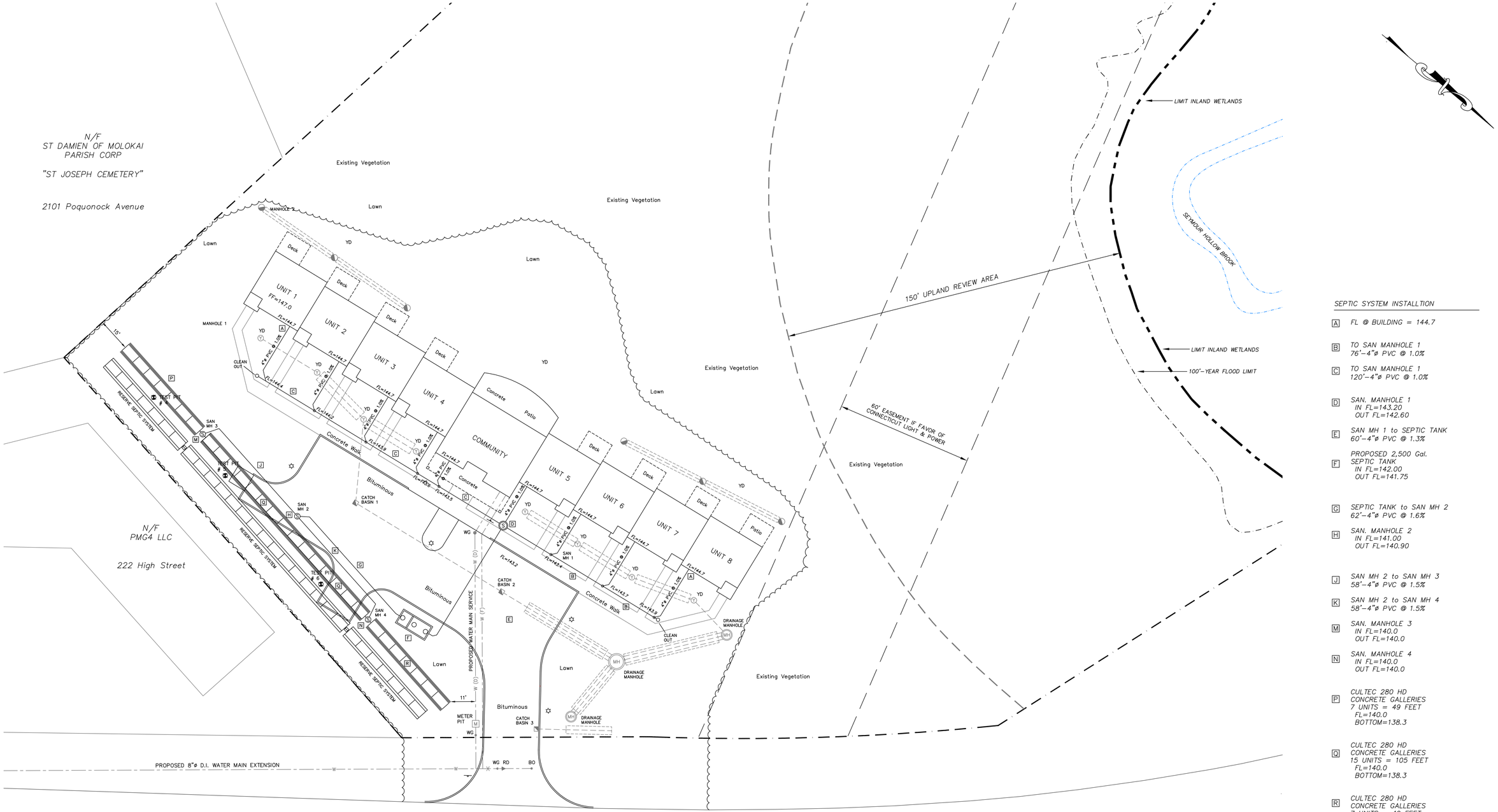

SEPTIC SYSTEM INSTALLTION

- [A] FL @ BUILDING = 144.7
- [B] TO SAN MANHOLE 1 76'–4"ø PVC @ 1.0%
- [C] TO SAN MANHOLE 1 120'–4"ø PVC @ 1.0%
- [D] SAN. MANHOLE 1 IN FL=143.20 OUT FL=142.60
- [E] SAN MH 1 to SEPTIC TANK 60'–4"ø PVC @ 1.3%
- [F] PROPOSED 2,500 Gal. SEPTIC TANK IN FL=142.00 OUT FL=141.75
- [G] SEPTIC TANK to SAN MH 2 62'–4"ø PVC @ 1.6%
- [H] SAN. MANHOLE 2 IN FL=141.00 OUT FL=140.90
- [J] SAN MH 2 to SAN MH 3 58'–4"ø PVC @ 1.5%
- [K] SAN MH 2 to SAN MH 4 58'–4"ø PVC @ 1.5%
- [M] SAN. MANHOLE 3 IN FL=140.0 OUT FL=140.0
- [N] SAN. MANHOLE 4 IN FL=140.0 OUT FL=140.0
- [P] CULTEC 280 HD CONCRETE GALLERIES 7 UNITS = 49 FEET FL=140.0 BOTTOM=138.3
- [Q] CULTEC 280 HD CONCRETE GALLERIES 15 UNITS = 105 FEET FL=140.0 BOTTOM=138.3
- [R] CULTEC 280 HD CONCRETE GALLERIES 7 UNITS = 49 FEET FL=140.0 BOTTOM=138.3

ALL PVC TO BE:

ASTM D 304, SDR 35
ASTM F 789, PS–46
ASTM F 891, PS–50 or PS–100
ASTM D 1760, SDR 35

Sheet 12
Septic System Plan

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

STATE OF CONNECTICUT THOMAS J. BARRESI No. 70085 LICENSED PROFESSIONAL ENGINEER

STATE OF CONNECTICUT THOMAS J. BARRESI No. 70085 LICENSED LAND SURVEYOR

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(860) 219–9260 www.barresillc.com

DATE	REVISION
8/15/23	Per Town Engineer

SPECIAL USE PERMIT SITEPLAN
PREPARED FOR
EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

SCALE: 1 IN = 20 FT | JULY 7, 2023

Vaccaro
prod

6/15/23 SOILS TESTS: 120 HIGH STREET

TEST HOLE	MIN. UNIFORM SEEPAGE RATE (MIN./INCH)	SOIL PROFILE (DEPTH IN INCHES)
4	1.0 @ 79"	0–8 Topsoil w/Forest Litter 8–34 Orange Fine Loamy Sand 34–132 Medium Fine Tan Sand No Mottles No Water No Hardpan No Ledge 72 Roots
5	1.0 @ 70"	0–6 Topsoil w/Forest Litter 6–28 Orange Fine Loamy Sand 28–53 Medium Tan Sand 53–138 Medium Fine White Sand No Mottles No Water No Hardpan No Ledge 54 Roots
6	0.6 @ 74"	0–9 Forest Litter 9–34 Orange Fine Loamy Sand 34–70 Medium Tan Sand 70–132 Medium Fine White Sand No Mottles No Water No Hardpan No Ledge 60 Roots

SOIL TEST DATA TAKEN FROM REPORT OF SUBSURFACE SOIL EXAMINATION BY ED LALLY AND ASSOCIATES.

PERC TEST 4

Depth of Hole = 79

Time	Depth	dT	dD	dT/dD
9:02	2.0			
9:03	4.5	1	2.5	0.4
9:05	6.0	2	1.5	1.3
9:06	7.0	1	1.0	1.0
9:07	8.0	1	1.0	1.0
9:08	9.0	1	1.0	1.0
9:09	10.0	1	1.0	1.0

PERC TEST 5

Depth of Hole = 70

Time	Depth	dT	dD	dT/dD
9:41	5.5			
9:42	9.25	1	3.75	0.3
9:43	11.0	1	1.75	0.6
9:44	12.5	1	1.5	0.7
9:45	13.5	1	1.0	1.0
9:46	14.5	1	1.0	1.0
9:47	16.5	1	2.0	0.5
9:48	17.25	1	.75	1.3
9:49	18.25	1	1.0	1.0

PERC TEST 6

Depth of Hole = 74

Time	Depth	dT	dD	dT/dD
10:12	9.0			
10:13	13.25	1	4.5	0.2
10:14	15.5	1	2.25	0.4
10:15	17.5	1	2.0	0.5
10:16	19.5	1	2.0	0.5
10:17	21.0	1	1.5	0.7
10:18	22.75	1	1.75	0.6

SEPTIC DESIGN FLOW

1.) Design flow GPD / Bedroom = 150 Gallons

2.) Number of Bedrooms = 8

3.) Septic Design Flow
= 8 x 150
= 1200 Gallons

SEPTIC TANK CAPACITY (GAL.),
Multi–family Septic Tank

4.) Septic Tank / 3 bedrooms = 1,250 Gallons
5.) Additional Bedroom = 250 Gallons / Bedroom
6.) Additional Bedrooms = 5 Bedrooms
7.) Additional Capacity
= 5 x 250
= 1,250 Gallons
8.) Total Septic Tank Capacity
= 1,250 + 1,250
= 2,500 Gallons

MULTI–FAMILY LEACHING SYSTEM

9.) Effective Leaching Area, 3 Bedrooms = 495 sf
10.) Additional per Bedroom = 165 sf
11.) Additional Bedrooms = 5
12.) Additional ELA
= 5 x 165
= 825 sf
13.) Total Required ELA
= 495 + 825
= 1,320 sf

LEACHING TRENCH DESIGN
CULTEC – RECHARGER 280

14.) ELA / Unit = 6.5
15.) Total Required ELA = 1,320
16.) Length Required
= 1,320 / 6
= 203.1'
17.) Effective Langth / Unit = 7
18.) Number Required Units
= 203.1 / 7
= 29.0

SEPTIC SYSTEM NOTES / SPECIFICATIONS

1. SEPTIC SYSTEM CONSTRUCTION AND MATERIALS SHALL CONFORM TO "CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS" (LATEST REVISION).
2. DEVELOPER'S ENGINEER TO STAKE AREA OF SEPTIC FIELD AND DEVELOPER TO "FENCE OFF" THE AREA SO THAT IT REMAINS UNDISTURBED DURING CONSTRUCTION OF THE HOUSE.
3. BUILDING SEWER PIPE SHALL BE:
40' – 6"ø SCH 40 PVC ASTM ASTM D1785 (or APPROVED EQUAL) @ 2.0%
4. SEPTIC TANK SHALL BE 2,500 GALLON TWO COMPARTMENT ARROW SERIES AC–4 SEPTIC TANK OR APPROVED EQUAL. TANK SHALL HAVE CLEANOUT RISERS WITH ACCESS COVERS SET AT FINISHED GRADE GRADE. SEPTIC TANK MUST CONFORM TO H–20 LOADING CAPACITY.
5. SOLID PIPE FROM SEPTIC TANK TO DISTRIBUTION BOX 1 SHALL BE 6"ø PVC SCH 40, ASTM D 1785, OR APPROVED EQUAL, AT 1/8" / FT. MIN.
6. SOLID PIPE BETWEEN DISTRIBUTION BOXES SHALL BE 6"ø PVC ASTM D3034 SDR 35, OR APPROVED EQUAL, AT 1/8" / FT. MIN.
7. SELECT FILL PLACED WITHIN AND ADJACENT TO THE LEACHING SYSTEM SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY A PROFESSIONAL ENGINEER FOR USE WITHIN THE LEACHING AREA:
   - THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE 3 INCH SIEVE.
   - UP TO 45 % OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
   - THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
   - THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

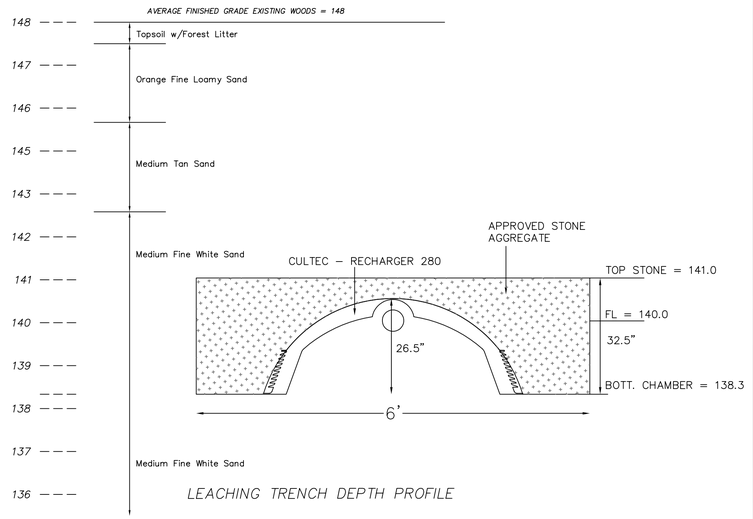
SIEVE SIZE	PERCENT PASSING	
	WET SIEVE	DRY SIEVE
#4	100	100
#10	70 – 100	70 – 100
#40	10 – 50 *	10 – 75
#100	0 – 20	0 – 5
#200	0 – 5	0 – 2.5

* PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75 % IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10 % AND THE #200 SIEVE DOES NOT EXCEED 5 %.

8. STONE AGGREGATE SHALL MEET THE GRADATIONS FOR NO. 4 STONE AGGREGATE OR NO. 6 STONE AGGREGATE.
9. DISTRIBUTION BOXES SHALL BE "ARROW DB–3", OR APPROVED EQUAL. D–BOX SHALL CONFORM TO H–20 LOADING CAPACITY.
10. BITMUNINOUS PAVING SHALL BE INSTALLED AS FINSIHED SURFACE TREATMENT OVER THE SEPTIC SYSTEM.

SEPTIC SYSTEM INSTALLATION SCHEDULE:

1. CONTRACTOR SHALL OBTAIN APPROVAL TO START CONSTRUCTION FROM THE TOWN OF WINDSOR HEALTH DEPARTMENT (TWHD). CONSTRUCTION SHALL OCCUR DURING LOW SOIL MOISTURE CONDITIONS.
2. REMOVE BRUSH, ROOTS, TOPSOIL, ETC. FROM SYSTEM AREA. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR RESPREADING AFTER CONSTRUCTION.
3. INSTALL SEPTIC TANK AND BUILDING SEWER.
4. SCARIFY SURFACE OF LEACHING AREA.
5. SYSTEM SHALL BE INSTALLED IN AN EXISTING PAVED AREA. SELECT FILL SHALL EXTEND A MINIMUM OF 5 FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE LEACHING SYSTEM.
6. CONSTRUCT LEACHING TRENCHES IN SELECT FILL AND COVER STONE AGGREGATE WITH NON–WOVEN FILTER FABRIC. FILTER FABRIC MUST BE APPROVED BY THE TOWN HEALTH DEPARTMENT.
7. PLACE COMMON FILL DOWN–GRADIENT OF THE SELECT FILL. THE TOP OF THE EMBANKMENT OF THE COMMON FILL SHALL EXTEND A MINIMUM OF 10 FEET LATERALLY FROM THE DOWN–GRADIENT SIDE OF THE LOWEST LEACHING TRENCH BEFORE SLOPING TO EXISTING GRADE AT 50 % MAXIMUM SLOPE.
8. CAREFULLY BACKFILL WITH APPROVED MATERIAL AFTER INSPECTION. DO NOT BACKFILL WITH BOULDERS. DO NOT RUN EQUIPMENT OVER BACKFILLED TRENCH.
9. BITMUNINOUS PAVING SHALL BE INSTALLED AS FINSIHED SURFACE TREATMENT OVER THE SEPTIC SYSTEM.



LEACHING TRENCH DEPTH PROFILE

SEPTIC SYSTEM DESIGN

SPECIAL CONDITIONS

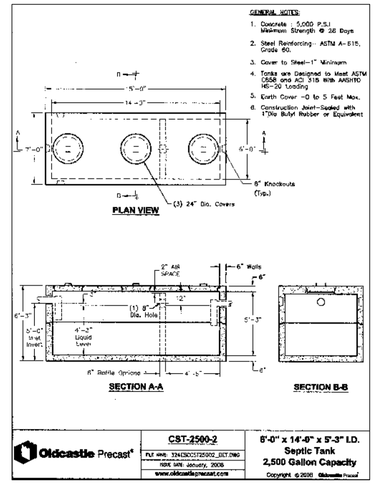
_____	SYSTEM DESIGN LARGER THAN 2,000 GPD.	_____	WATER SUPPLY WATERSHED
_____	HIGH GROUND WATER (< 3 FT.)	_____	POSSIBLE SEASONAL HIGH GROUND WATER
_____	WATERCOURSE, MARSH OR PON		
_____	LIMITED SUITABLE AREA	_____	POSSIBLE SEASONAL FLOODING
_____	MARGINAL SOIL (30–60 MINS./IN)	_____	EXCESSIVE SLOPE (OVER 25%)
_____	UNDERLYING TIGHT SOIL (< 4 FT.)	_____	SHALLOW LEDGE (< 5 FT)
_____	OTHER _____		

CONCLUSIONS

__X__	SUITABLE FOR SEWAGE DISPOSAL	_____	RETEST DURING WET SEASON
_____	UNSUITABLE FOR SEWAGE DISPOSAL	__X__	ENGINEER'S PLAN REQUIRED
_____	ADDITIONAL INVESTIGATION REQUIRED		

ALL PVC TO BE:

ASTM D 304, SDR 35
ASTM F 789, PS–46
ASTM F 891, PS–50 or PS–100
ASTM D 1760, SDR 35



Sheet 13
Septic System Design & Details

STATE OF CONNECTICUT THOMAS J. BARRESI No. 70085 LICENSED PROFESSIONAL ENGINEER

STATE OF CONNECTICUT THOMAS J. BARRESI No. 70085 LICENSED LAND SURVEYOR

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

BARRESI ASSOCIATES LLC

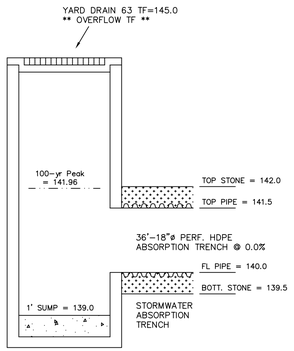
570 HAYDEN STATION ROAD – UNIT D – WINDSOR, CT 06095
(860) 219–9260 www.barresillc.com

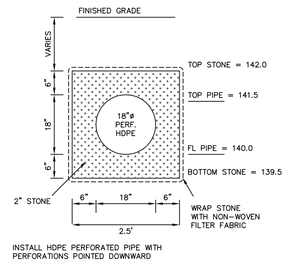
DATE	REVISION
8/15/23	Per Town Engineer

SPECIAL USE PERMIT SITEPLAN
PREPARED FOR
EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

SCALE: NONE | MARCH 23, 2023

Version 3.0 final

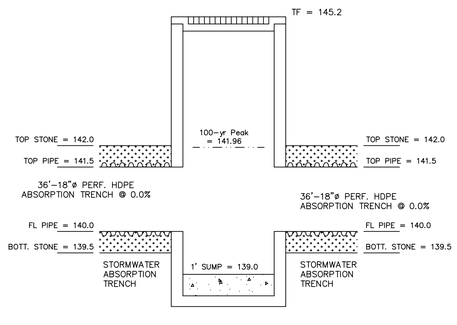




STORMWATER ABSORPTION TRENCH

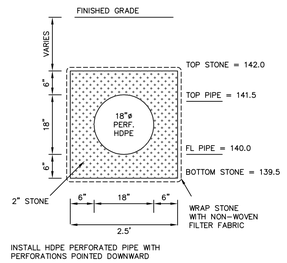
REAR YARD-DRAIN # 63

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.

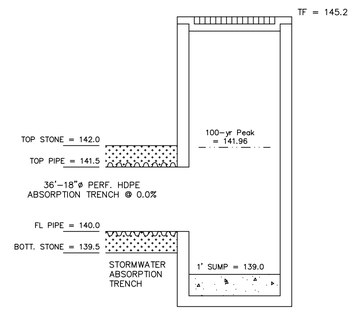


REAR YARD-DRAIN # 62

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.

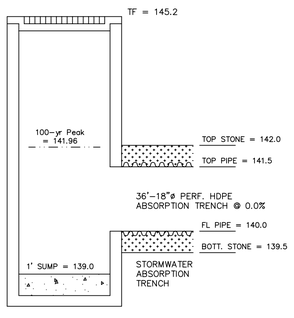


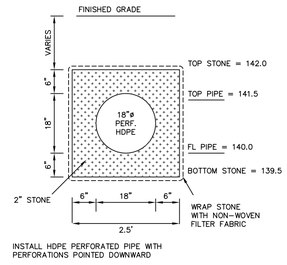
STORMWATER ABSORPTION TRENCH



REAR YARD-DRAIN # 61

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.

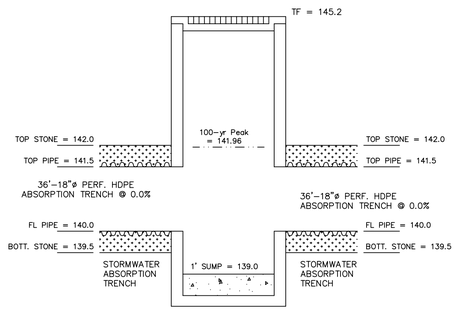




STORMWATER ABSORPTION TRENCH

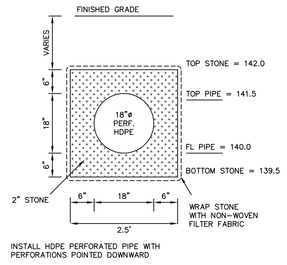
REAR YARD-DRAIN # 71

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.

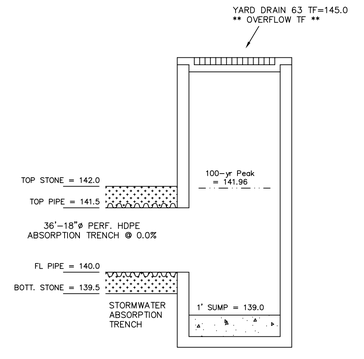


REAR YARD-DRAIN # 72

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.



STORMWATER ABSORPTION TRENCH



REAR YARD-DRAIN # 73

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.

NOTE: YARD DRAINS SHALL BE 24"ø (MINIMUM)

Sheet 14

Drainage Design Details – Rear Yard Drain System

STATE OF CONNECTICUT
THOMAS J. BARRESI
No. 70085
LICENSED
PROFESSIONAL ENGINEER

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

BARRESI
ASSOCIATES LLC
570 HAYDEN STATION ROAD – UNIT D – WINDSOR, CT 06095
(860) 219-9260 www.barresillc.com

DATE	REVISION
8/15/23	Per Town Engineer

SPECIAL USE PERMIT SITEPLAN

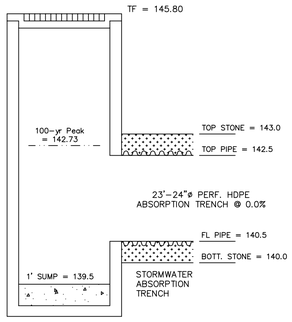
PREPARED FOR

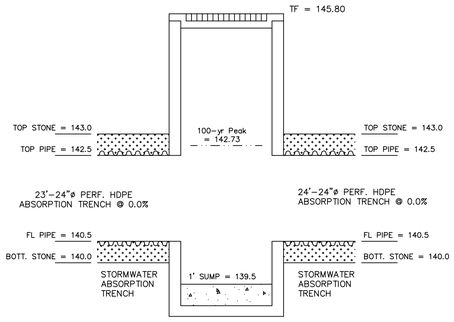
EBEX, INC.

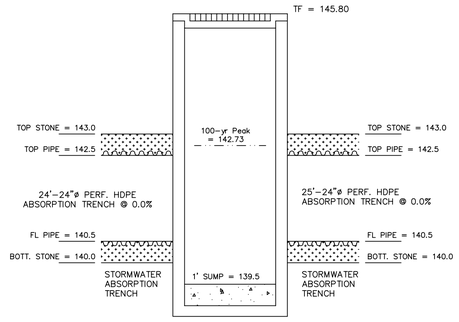
120 HIGH STREET

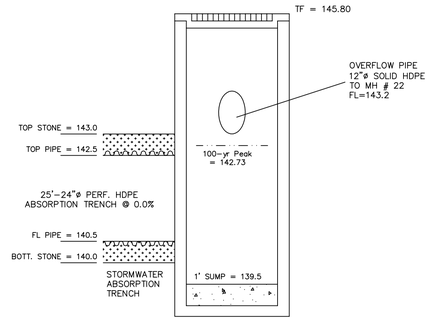
WINDSOR, CONNECTICUT

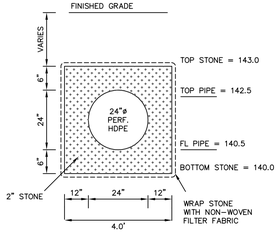
SCALE: AS SHOWN | JULY 7, 2023









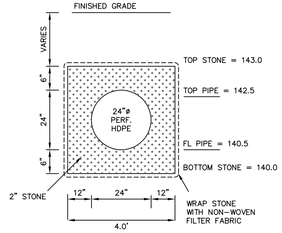


INSTALL HDPE PERFORATED PIPE WITH PERFORATIONS POINTED DOWNWARD

STORMWATER ABSORPTION TRENCH

NORTH FRONT YARD-DRAIN # 51

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.

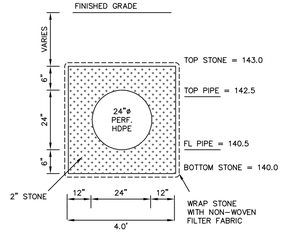


INSTALL HDPE PERFORATED PIPE WITH PERFORATIONS POINTED DOWNWARD

STORMWATER ABSORPTION TRENCH

NORTH FRONT YARD-DRAIN # 52

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.

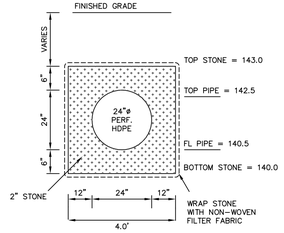


INSTALL HDPE PERFORATED PIPE WITH PERFORATIONS POINTED DOWNWARD

STORMWATER ABSORPTION TRENCH

NORTH FRONT YARD-DRAIN # 53

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.

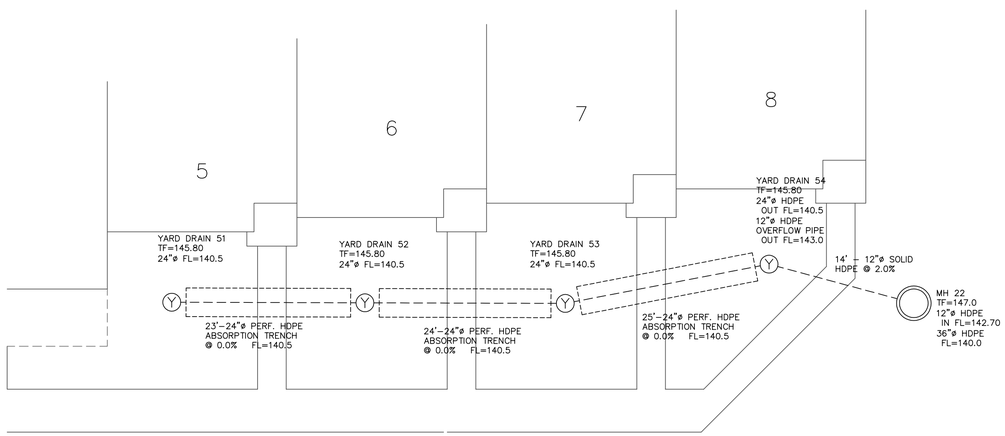


INSTALL HDPE PERFORATED PIPE WITH PERFORATIONS POINTED DOWNWARD

STORMWATER ABSORPTION TRENCH

NORTH FRONT YARD-DRAIN # 54

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.



NOTE: YARD DRAINS SHALL BE 24"ø (MINIMUM)

Sheet 15

Drainage Design Details – Northerly Front Yard Drain System

STATE OF CONNECTICUT
THOMAS J. BARRESI
No. 70085
LICENSED
PROFESSIONAL ENGINEER

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

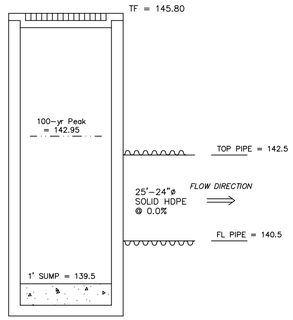
BARRESI
ASSOCIATES LLC
570 HAYDEN STATION ROAD – UNIT D – WINDSOR, CT 06095
(860) 219-9260 www.barresillc.com

DATE	REVISION
8/15/23	Per Town Engineer

SPECIAL USE PERMIT SITEPLAN
PREPARED FOR
EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

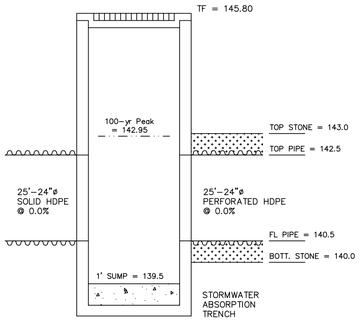
SCALE: AS SHOWN | JULY 7, 2023

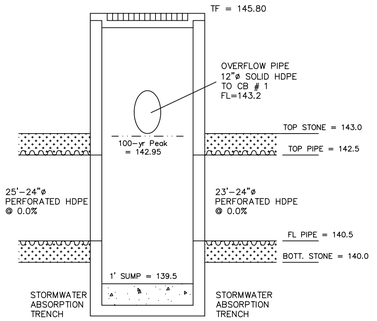
proj. 35initdr
g:\docs\windsor\tradeport\international north\35 int. drwg\2016 siteplan\40scale

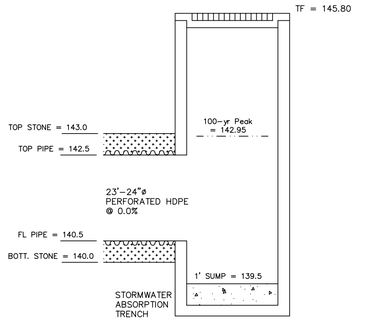


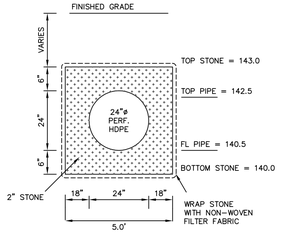
SOUTH FRONT YARD-DRAIN # 41

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.







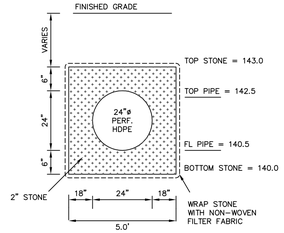


INSTALL HDPE PERFORATED PIPE WITH PERFORATIONS POINTED DOWNWARD

STORMWATER ABSORPTION TRENCH

SOUTH FRONT YARD-DRAIN # 42

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.

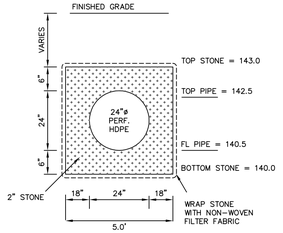


INSTALL HDPE PERFORATED PIPE WITH PERFORATIONS POINTED DOWNWARD

STORMWATER ABSORPTION TRENCH

SOUTH FRONT YARD-DRAIN # 44

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.

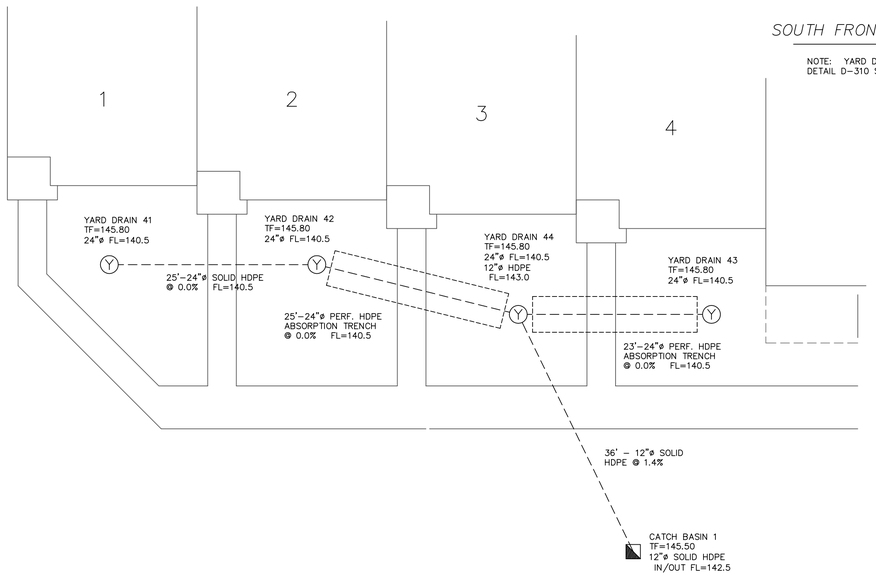


INSTALL HDPE PERFORATED PIPE WITH PERFORATIONS POINTED DOWNWARD

STORMWATER ABSORPTION TRENCH

SOUTH FRONT YARD-DRAIN # 43

NOTE: YARD DRAIN TO MEET TOWN STANDARD DETAIL D-310 SPECIFICATIONS.



Sheet 16

Drainage Design Details – Southerly Front Yard Drain System

STATE OF CONNECTICUT
THOMAS J. BARRESI
No. 70085
LICENSED
PROFESSIONAL ENGINEER

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

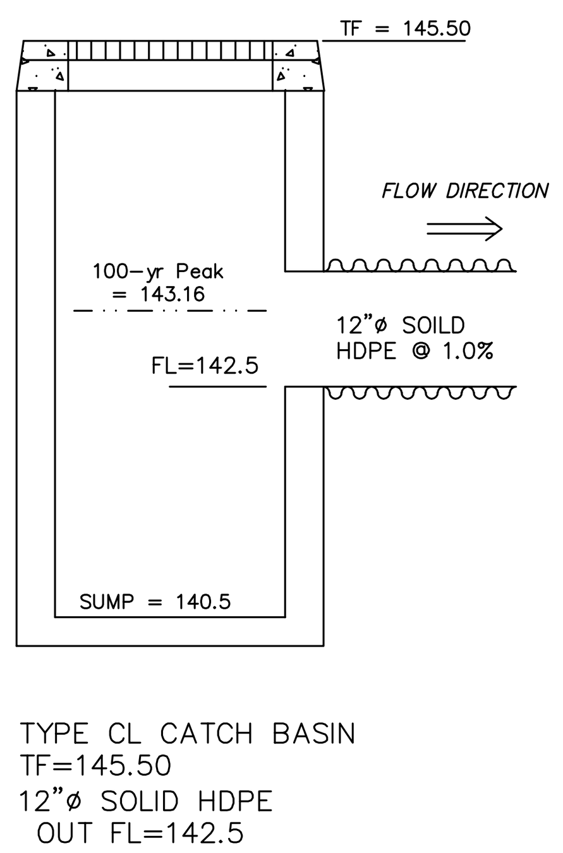
BARRESI
ASSOCIATES LLC
570 HAYDEN STATION ROAD – UNIT D – WINDSOR, CT 06095
(860) 219-9260 www.barresillc.com

DATE	REVISION
8/15/23	Per Town Engineer

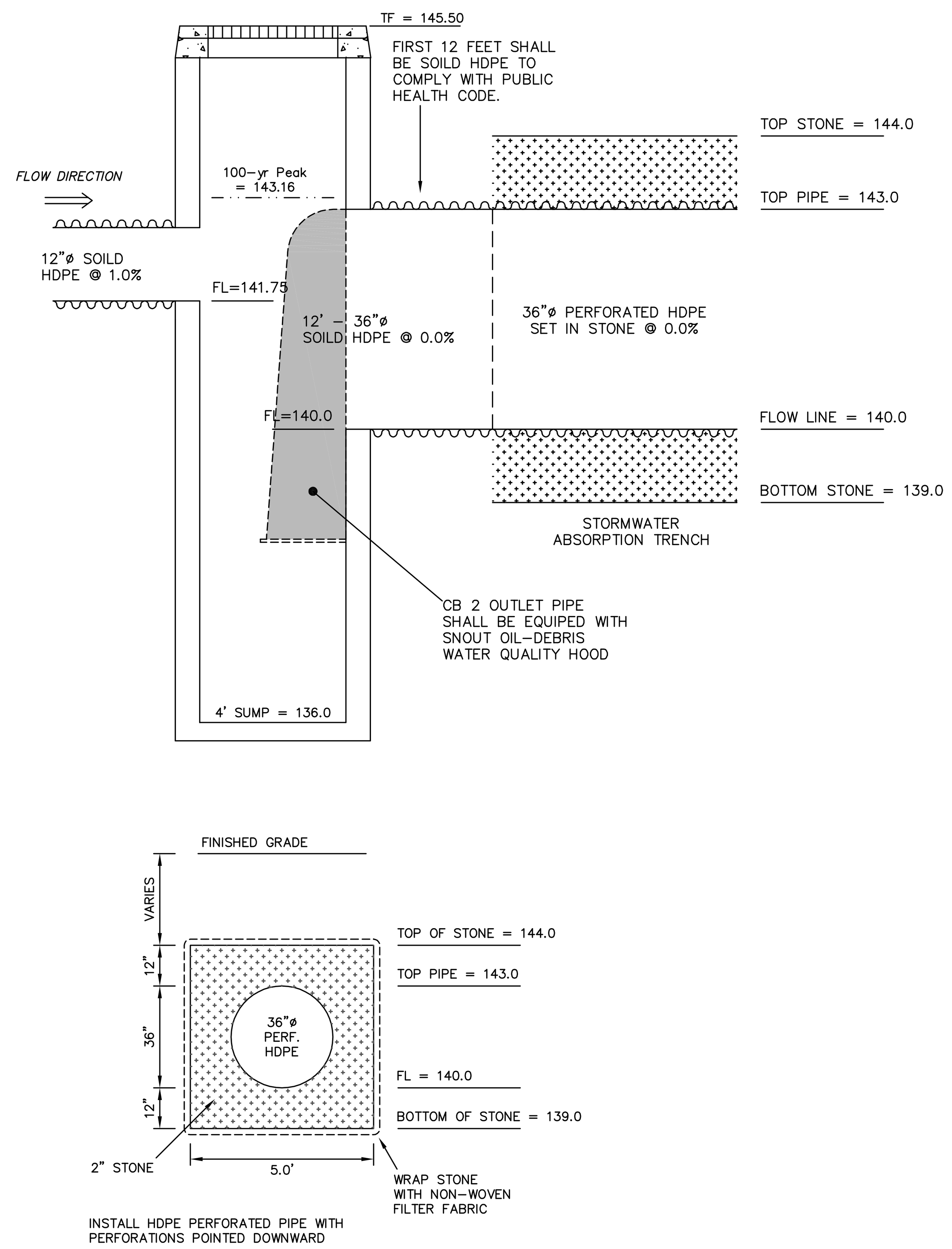
SPECIAL USE PERMIT SITEPLAN
PREPARED FOR
EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

SCALE: AS SHOWN | JULY 7, 2023

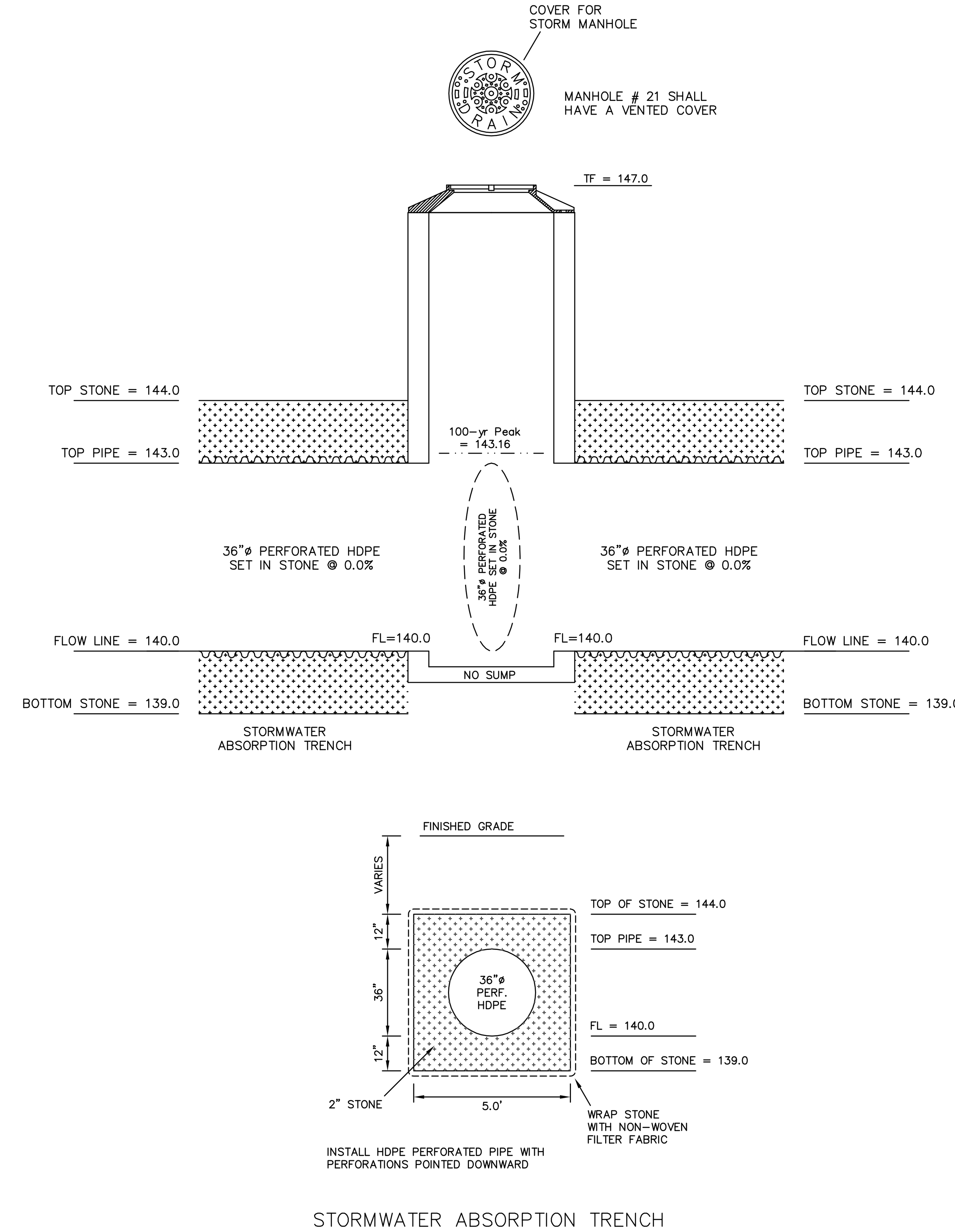
proj. 35sitdr
g:\cad\windsor\bradport\international north\35 int drive\2016 siteplan\40scale



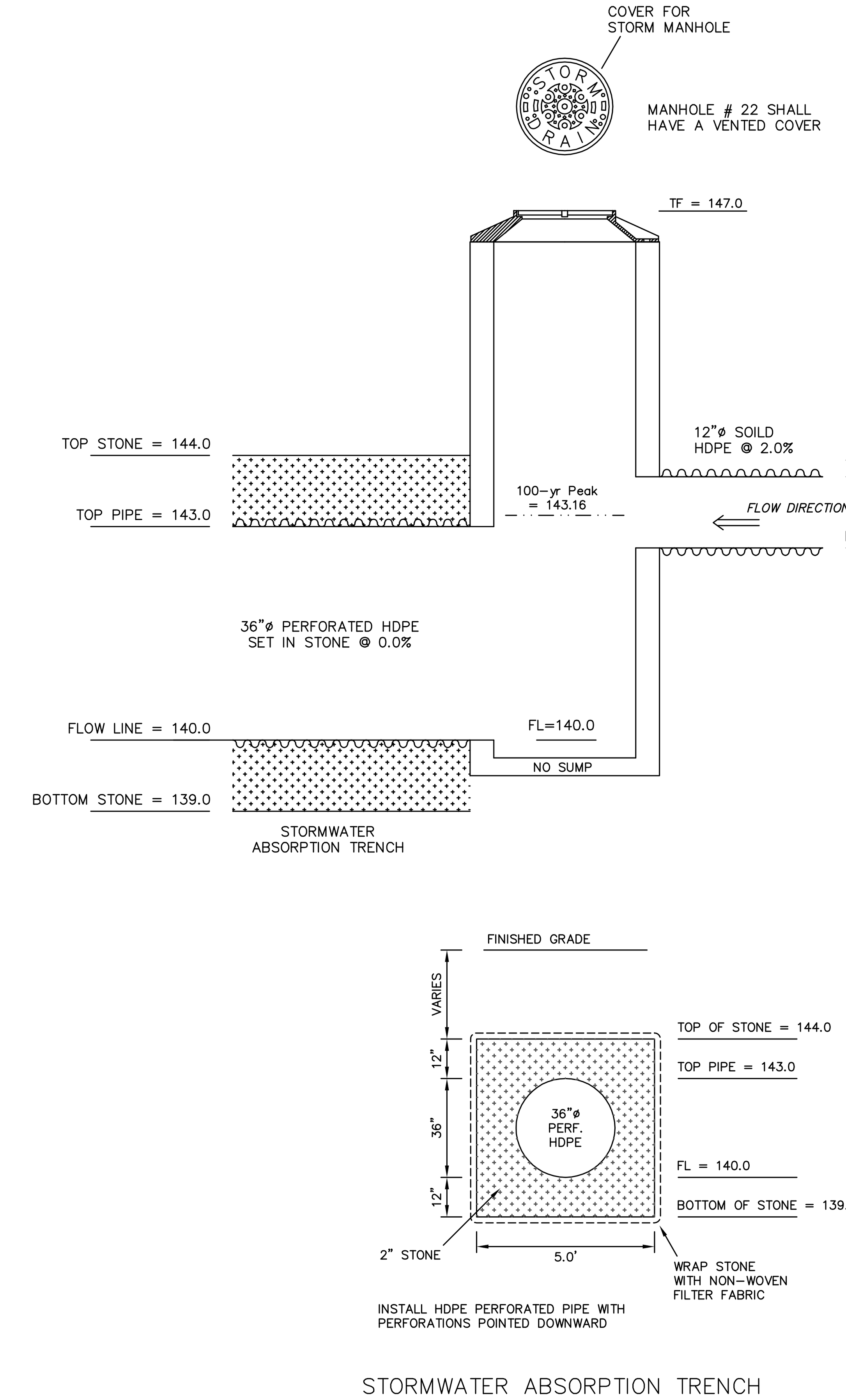
CATCH BASIN # 1



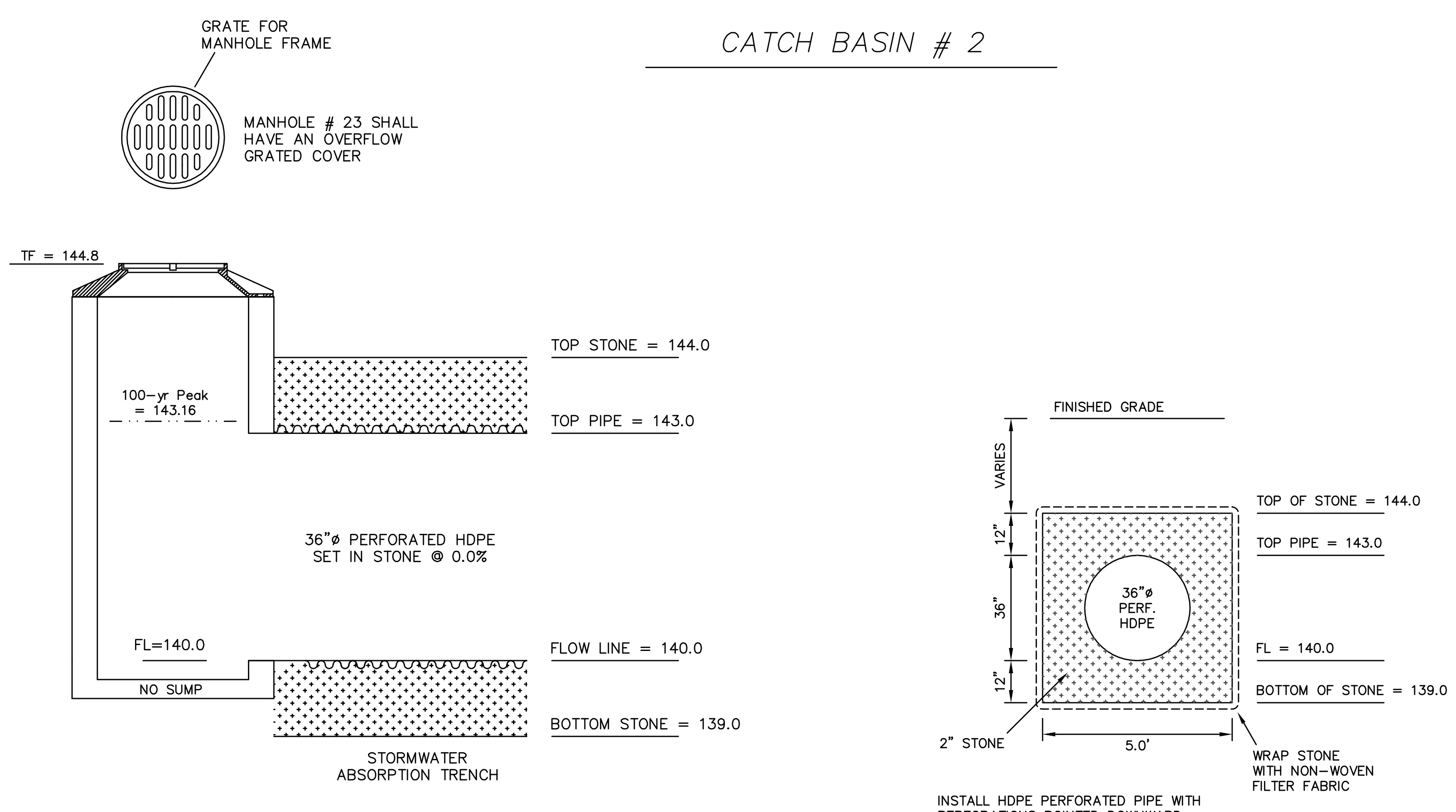
CATCH BASIN # 2



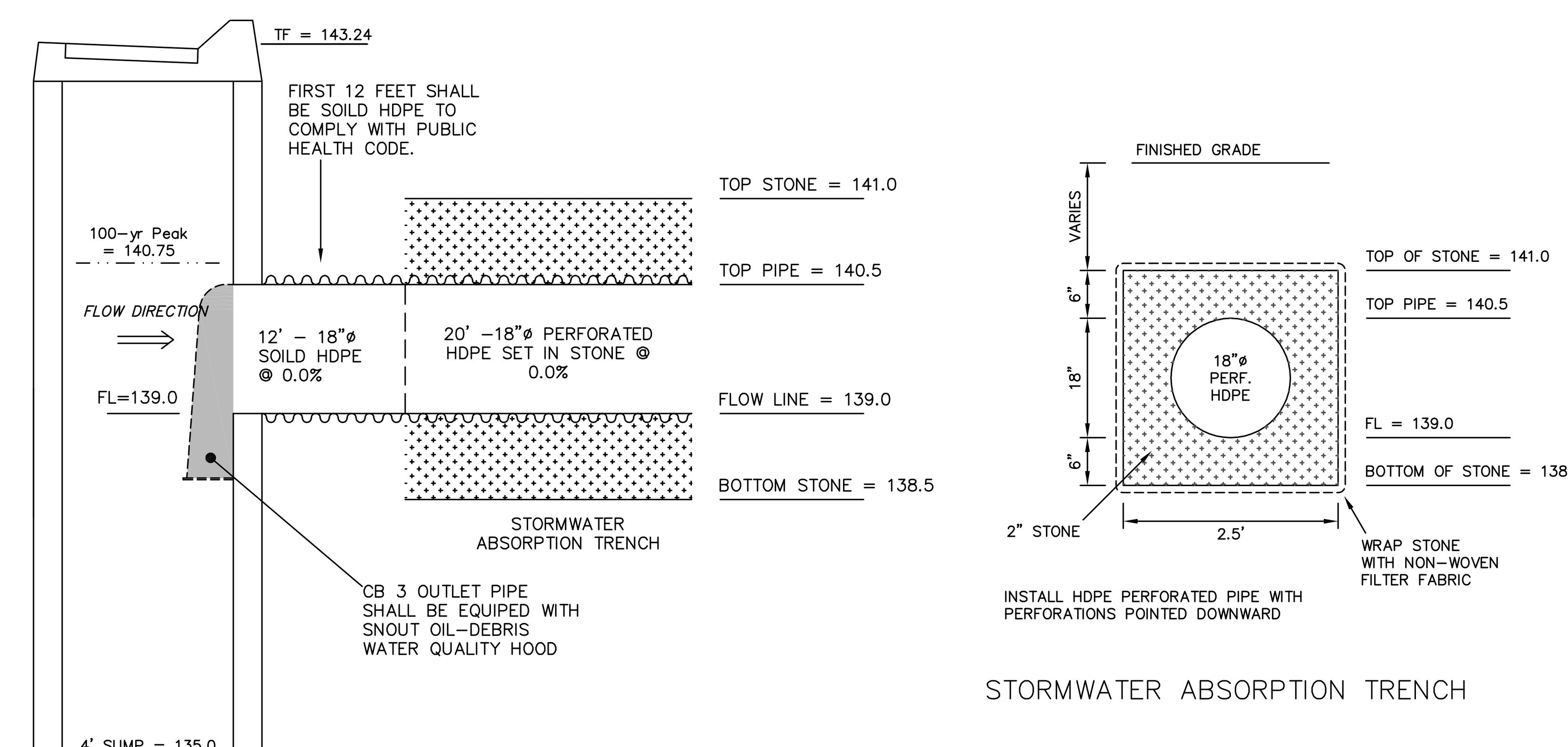
MANHOLE # 21



MANHOLE # 22

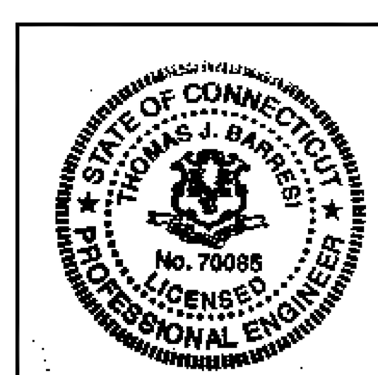


MANHOLE # 23



CATCH BASIN # 3

Sheet 17
Drainage Design Details – Pavement & Parking Lot



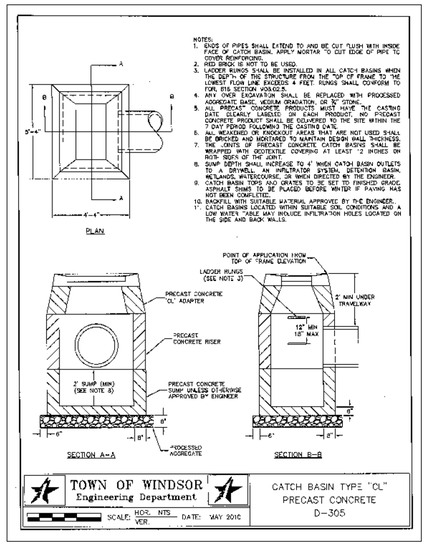
TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

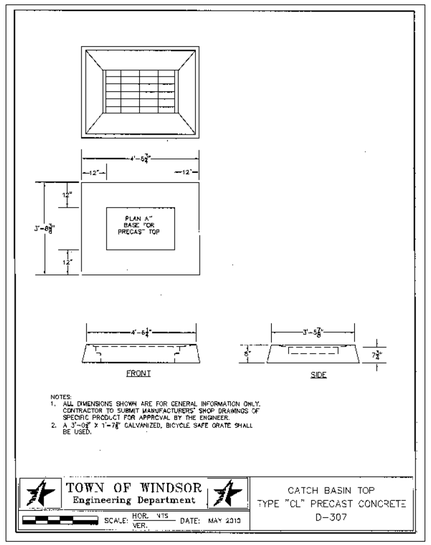
BARRESI
ASSOCIATES LLC
570 HAYDEN STATION ROAD – UNIT D – WINDSOR, CT 06095
(860) 219-9260 www.barresillc.com

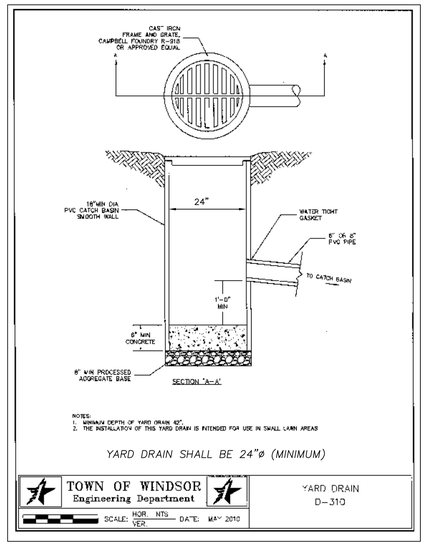
DATE	REVISION
8/15/23	Per Town Engineer

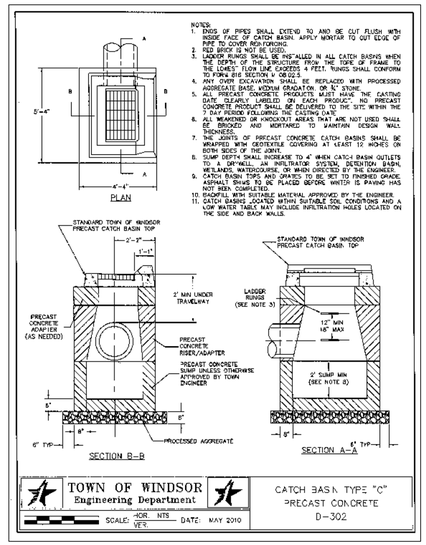
SPECIAL USE PERMIT SITEPLAN
PREPARED FOR
EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

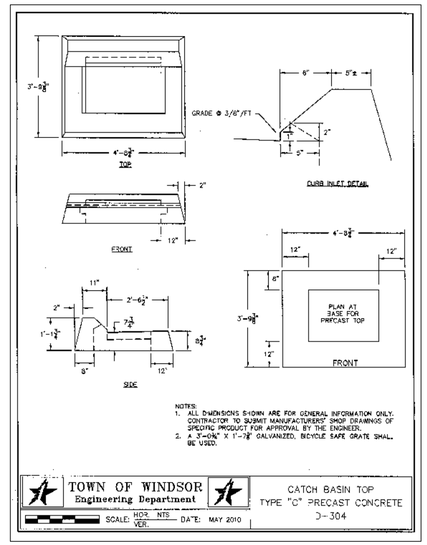
SCALE: AS SHOWN | JULY 7, 2023











MANHOLE # 21

MANHOLE # 22 & 23

CATCH BASIN HOODED OUTLET

(CATCH BASIN #106)

Sheet 18
Construction Details – 1

STATE OF CONNECTICUT THOMAS J. BARRESI No. 70085 LICENSED PROFESSIONAL ENGINEER

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

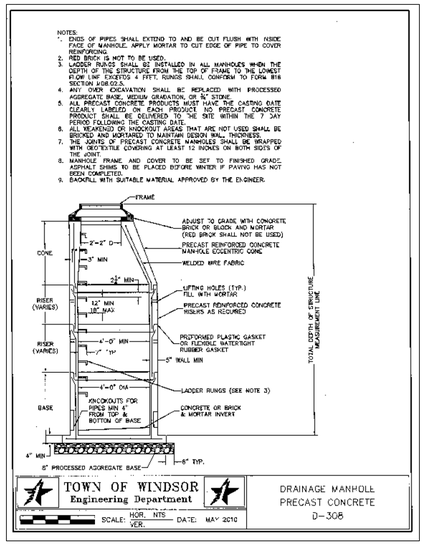
BARRESI ASSOCIATES LLC
570 HAYDEN STATION ROAD – UNIT D – WINDSOR, CT 06095
(860) 219-9260 www.barresillc.com

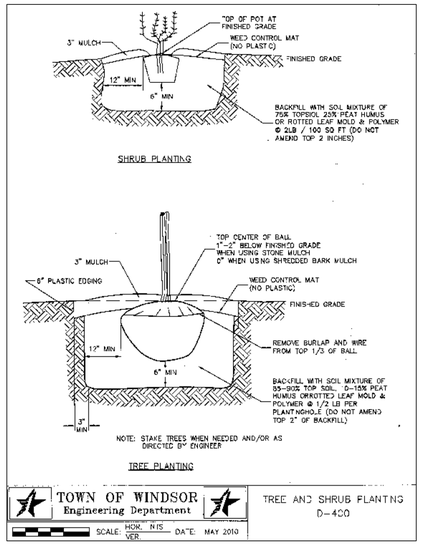
DATE	REVISION
8/15/23	Per Town Engineer

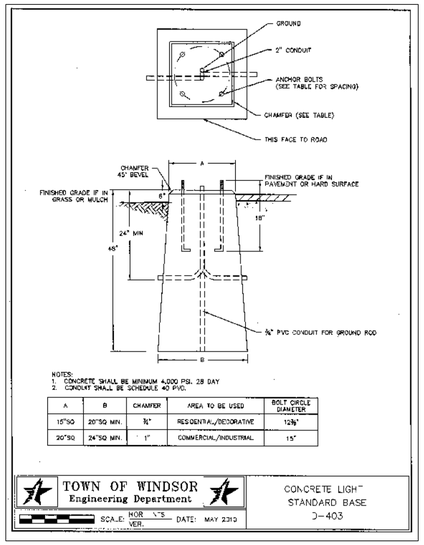
SPECIAL USE PERMIT SITEPLAN
PREPARED FOR
EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

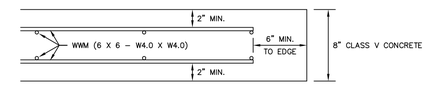
SCALE: AS SHOWN | JULY 7, 2023

proj. 35initial
g:\wood\windsor\roadsport\international north\35 lot drwg\2016 siteplan\40scale

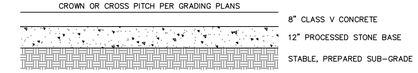








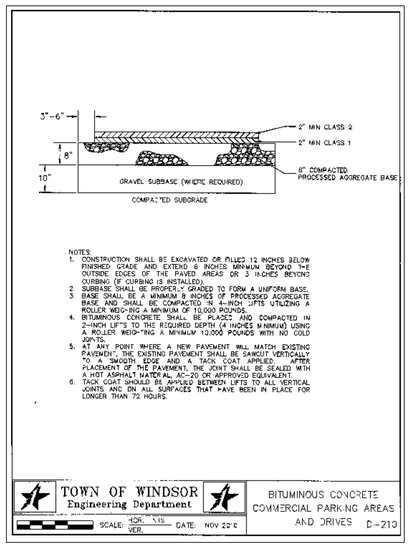
CONCRETE REINFORCEMENT

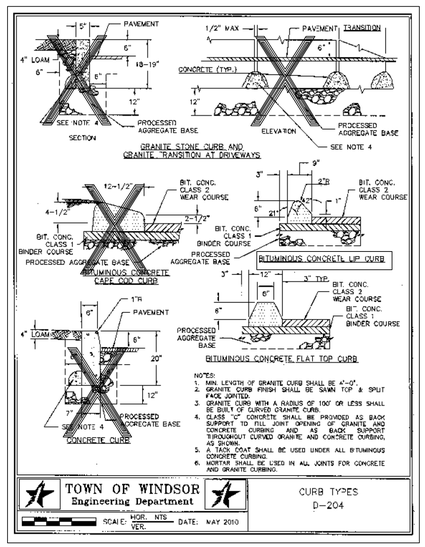


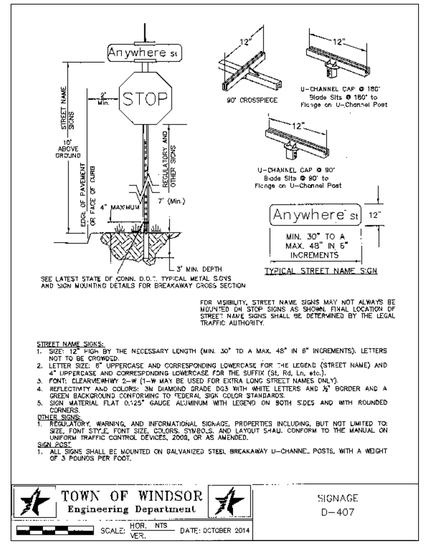
IF THE EXISTING SUBGRADE IS DEEMED UNSUITABLE BY TOWN ENGINEERING STAFF, IT SHALL BE REPLACED WITH 12" OF COMPACTED BANK RUN GRAVEL.

SECTION

CONCRETE DUMPSTER PAD







NOTE: (BCLC) BITUMINOUS CONCRETE LIP CURBING TO BE USED.

STATE OF CONNECTICUT THOMAS J. BARRESI No. 70085 LICENSED PROFESSIONAL ENGINEER

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

BARRESI ASSOCIATES LLC

570 HAYDEN STATION ROAD – UNIT D – WINDSOR, CT 06095
(860) 219-9260 www.barresillc.com

DATE	REVISION
8/15/23	Per Town Engineer

SPECIAL USE PERMIT SITEPLAN
PREPARED FOR
EBEX, INC.
120 HIGH STREET
WINDSOR, CONNECTICUT

SCALE: AS SHOWN | JULY 7, 2023

proj 25nitde
P:\Land\Windsor\Windsor\International north\35 int drive\2016 siteplan\03cade