800 LONG RIDGE ROAD

800 LONG RIDGE ROAD, STAMFORD
DESIGN DEVELOPMENT & PERMITTING SET
NOT FOR CONSTRUCTION

GENERAL NOTES

1. BOUNDARY & TOPOGRAPHIC INFORMATION IS BASED UPON FIELD SURVEY CONDUCTED BY: ALL SEASONS LAND SURVEYING OF WALLINGFORD, CT. BEARINGS ARE BASED UPON ON THE CT STATE COORDINATE SYSTEM (N.A.D. – 83). ELEVATIONS ARE IN THE N.A.V.D. 88 DATUM.

2. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1–800–922–4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.

3. CIVIL 1 ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.

4. ALL UTILITY SERVICES ARE TO BE UNDERGROUND. THE EXACT LOCATION AND SIZE OF ELECTRIC, TELEPHONE, CABLE TELEVISION AND GAS ARE TO BE DETERMINED BY THE RESPECTIVE UTILITY COMPANIES.

5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING UTILITY LOCATIONS IN THE FIELD AND TAKING ALL NECESSARY STEPS TO PROTECT THEM FROM DAMAGE. ANY UTILITY THAT IS DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED BY THE CONTROLLING UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.

7. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND STRUCTURES. THOSE OF WHICH HAVE BEEN DAMAGED SHALL BE PROMPTLY REPAIRED TO EXISTING OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.

8. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL CONNECTICUT – 2002, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.

9. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" TOPSOIL AND BE SEEDED WITH GRASS OR SODDED, AS SHOWN ON THE PLANS.

10. ALL STORM DRAIN PIPE SHALL BE HDPE PR SDR–35 PVC UNLESS OTHERWISE INDICATED.

11. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.

12. ALL GRAVITY SANITARY SEWER PIPE SHALL BE PVC SDR–35 UNLESS OTHERWISE INDICATED.

13. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE CITY OF STAMFORD REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 818 AND ADDENDUMS.

14. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER AUTHORITY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.

15. THE PROPOSED BUILDINGS ARE TO BE CONNECTED TO PUBLIC WATER AND SANITARY SEWER UTILIZING EXISTING LATERALS THAT ENTER INTO THE SITE.

16. PRIOR TO CONSTRUCTION EXISTING ON–SITE UTILITIES THAT ARE TO REMAIN IN SERVICE SHALL BE INSPECTED AND REPLACED OR REPAIRED AS NEEDED.

17. COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITTEE.

18. THE PROPERTY OWNER MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) EROSION & SEDIMENT CONTROL MEASURES UNTIL ALL DEVELOPMENT ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.

19. CATCH BASINS DAMAGED OR FILLED WITH DEBRIS DURING CONSTRUCTION SHALL BE REPLACED OR CLEANED AT THE CONTRACTOR'S EXPENSE.

20. THE CONTRACTOR IS REMINDED THAT TITLE 16 CHAPTER 293 OF THE CONNECTICUT GENERAL STATUTES REQUIRES NOTIFICATION TO UTILITY COMPANIES OF PENDING EXCAVATION AT OR NEAR PUBLIC UTILITIES. THE CONTRACTOR SHALL CALL 1–800–922–4455 AT LEAST 72 HOURS PRIOR TO EXCAVATION, BUT NO MORE THAN 30 DAYS IN ADVANCE.

21. LINE AND GRADE FOR CONSTRUCTION LAYOUT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL UTILIZE A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF CONNECTICUT TO PERFORM CONSTRUCTION LAYOUT. THE CONTRACTOR SHALL SUBMIT THE NAME OF THE SURVEYOR TO THE ENGINEER AT LEAST 3 WEEKS PRIOR TO BEGINNING WORK.

22. ANY PUBLIC OR PRIVATE PROPERTY DISTURBED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED AS QUICKLY AS POSSIBLE AND TO THE SATISFACTION OF THE ENGINEER.

23. EACH LAYER OF MATERIAL USED FOR BACKFILL OR SUBGRADE SHALL BE COMPACTED UNTIL THE DRY DENSITY OF EACH LAYER IS AT LEAST 95% OF THE DRY DENSITY ACHIEVED BY THE AASHTO TEST T180, METHOD D FOR THAT SOIL. MAXIMUM LAYER THICKNESS NOT TO EXCEED 12".

24. A STREET OPENING PERMIT IS REQUIRED FOR ANY WORK WITHIN THE CITY OF STAMFORD RIGHT–OF–WAY.

25. ALL WORK WITHIN THE CITY OF STAMFORD RIGHT–OF–WAY SHALL BE CONSTRUCTED TO CITY OF STAMFORD REQUIREMENTS, THE STATE OF CONNECTICUT BASIC BUILDING CODE AND THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL.

26. THE ENGINEERING BUREAU OF THE CITY OF STAMFORD SHALL BE NOTIFIED THREE DAYS PRIOR TO ANY COMMENCEMENT WITHIN THE CITY OF STAMFORD RIGHT–OF–WAY.

27. ALL RETAINING WALLS GREATER THAN FOUR (4) FEET ARE REQUIRED TO BE DESIGNED, AND INSPECTED DURING CONSTRUCTION BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT, CERTIFICATION OF THE RETAINING WALL SHALL BE REQUIRED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY AND/OR BOND RELEASE.

28. CERTIFICATION WILL BE REQUIRED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT THAT WORK HAS BEEN COMPLETED IN COMPLIANCE WITH THE APPROVED DRAWINGS.

29. A FINAL LOCATION PLAN WILL BE REQUIRED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF CONNECTICUT.

30. FINAL PLANS SHALL CLEARLY SHOW THE LIMITS OF UTILITY EASEMENTS. EASEMENTS SHALL BE FILED ON THE CITY LAND RECORDS PRIOR TO ANY CERTIFICATE OF OCCUPANCY.

31. FINAL PLANS SHALL CLEARLY SHOW THE LIMITS OF ANY PUBLIC ACCESS EASEMENT REQUIRED FOR SIDEWALKS. EASEMENT SHALL BE FILED ON THE CITY LAND RECORDS PRIOR TO ANY CERTIFICATE OF OCCUPANCY.

NOTIFICATIONS:

1. A PRE–CONSTRUCTION MEETING WITH BUILDING & LAND TECHNOLOGY PERSONNEL SHALL OCCUR PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.

2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 2 WEEKS BEFORE BEGINNING ANY WORK INVOLVING THEIR UTILITY.

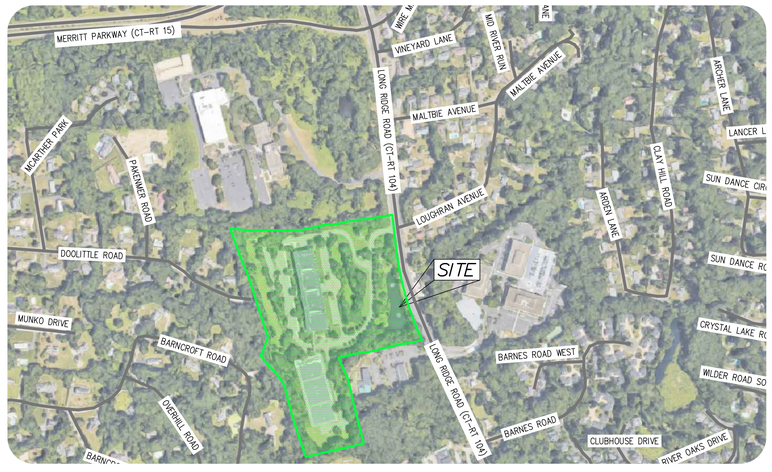
3. HAZARDOUS MATERIALS:

A. IT IS PREFERABLE THAT FUELING AND MAINTENANCE OF EQUIPMENT AND/OR VEHICLES OCCUR OFF–SITE IN A GARAGE OR OTHER SUITABLE AREA. IF OFF–SITE REFUELING NAD/OR MAINTENANCE IS NOT FEASIBLE OR PRACTICAL, THESE ACTIVITIES SHALL OCCUR IN AN AREA WHERE SPILLAGE CAN BE CONTAINED AND REMOVED, NO LESS THAN 50 FEET FROM A WATERCOURSE. ABSORBENT SPILL BLANKET MATERIAL SHOULD BE PLACED NEXT TO THE REFUELING/MAINTENANCE ACTIVITY TO BE USED TO CONTAIN AND REMOVE ANY POTENTIAL SPILLAGE.

B. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHALL BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NONWORK HOURS.

C. AN AMPLE SUPPLY OF ABSORBENT SPILL RESPONSE MATERIAL (BOOMS, BLANKETS, ETC.) SHALL BE AVAILABLE AT CONSTRUCTION SITES AT ALL TIMES TO CLEAN UP POTENTIAL SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE AND OIL.

D. SPILLS OF HAZARDOUS MATERIALS SHALL BE REPORTED IMMEDIATELY TO: CT DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND CHEMICAL SPILLS UNIT AT (860) 424–3338.



PROJECT SITE VICINITY MAP

400 0 200 400 800

1 inch = 400ft.

CIVIL 1

CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY (203) 266 - 0778 CONNECTICUT

OCTOBER 3, 2023
REVISED MAY 31, 2024

STANDARD CITY OF STAMFORD NOTES:

1. A STREET OPENING PERMIT IS REQUIRED FOR ALL WORK WITHIN THE CITY OF STAMFORD RIGHT–OF–WAY.

2. ALL WORK WITHIN THE CITY OF STAMFORD RIGHT–OF–WAY SHALL BE CONSTRUCTED TO CITY OF STAMFORD REQUIREMENTS, THE STATE OF CONNECTICUT BASIC BUILDING CODE AND THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL.

3. THE ENGINEERING BUREAU OF THE CITY OF STAMFORD SHALL BE NOTIFIED THREE DAYS PRIOR TO ANY COMMENCEMENT OF CONSTRUCTION OR WORK WITHIN THE CITY OF STAMFORD RIGHT– OF–WAY.

4. TREES WITHIN THE CITY OF STAMFORD RIGHT–OF–WAY TO BE REMOVED SHALL BE POSTED IN ACCORDANCE WITH THE TREE ORDINANCE.

5. PRIOR TO ANY EXCAVATION THE CONTRACTOR AND/OR APPLICANT/OWNER, IN ACCORDANCE WITH PUBLIC ACT 77–350, SHALL BE REQUIRED TO CONTACT "CALL BEFORE YOU DIG" AT 1– 800–922–4455 FOR MARK OUT OF UNDERGROUND UTILITIES.

6. ALL RETAINING WALLS THREE (3) FEET OR HIGHER MEASURED FROM FINISHED GRADE AT THE BOTTOM OF THE WALL TO FINISHED GRADE AT THE TOP OF THE WALL AND RETAINING WALLS SUPPORTING A SURCHARGE OR IMPOUNDING CLASS I, II OR III–A LIQUIDS ARE REQUIRED TO HAVE A BUILDING PERMIT. RETAINING WALLS SHALL BE DESIGNED AND INSPECTED DURING CONSTRUCTION BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, RETAINING WALLS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.

7. CERTIFICATION WILL BE REQUIRED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT THAT WORK HAS BEEN COMPLETED IN COMPLIANCE WITH THE APPROVED DRAWINGS.

8. A FINAL IMPROVEMENT LOCATION SURVEY WILL BE REQUIRED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF CONNECTICUT.

9. CONNECTION TO A CITY–OWNED STORM SEWER SHALL REQUIRE THE WAIVER COVERING STORM SEWER CONNECTION TO BE FILED WITH THE CITY OF STAMFORD ENGINEERING BUREAU.

10. GRANITE BLOCK OR OTHER DECORATIVE STONE OR BRICK, DEPRESSED CURB, DRIVEWAY APRON AND CURBING WITHIN THE CITY OF STAMFORD RIGHT–OF–WAY SHALL REQUIRE THE WAIVER COVERING GRANITE BLOCK DEPRESSED CURB AND DRIVEWAY APRONS TO BE FILED WITH THE CITY OF STAMFORD ENGINEERING BUREAU.

11. SEDIMENT AND EROSION CONTROLS SHALL BE MAINTAINED AND REPAIRED AS NECESSARY THROUGHOUT CONSTRUCTION UNTIL THE SITE IS STABILIZED.

12. TO OBTAIN A CERTIFICATE OF OCCUPANCY, SUBMITTAL MUST INCLUDE ALL ITEMS OUTLINED IN THE CHECKLIST FOR CERTIFICATE OF OCCUPANCY (APPENDIX D OF THE CITY OF STAMFORD DRAINAGE MANUAL).

13. REFERENCE EPB PERMIT #, ZONING PERMIT #, ZONING BOARD OF APPEALS #, SUBDIVISION #, IF APPLICABLE.

OWNER/APPLICANT
800 LONG RIDGE ROAD, LLC
100 WASHINGTON BOULEVARD
SUITE 200
STAMFORD, CT 06902

ENGINEER
CIVIL 1
43 SHERMAN HILL ROAD, SUITE D–101
WOODBURY, CT 06798

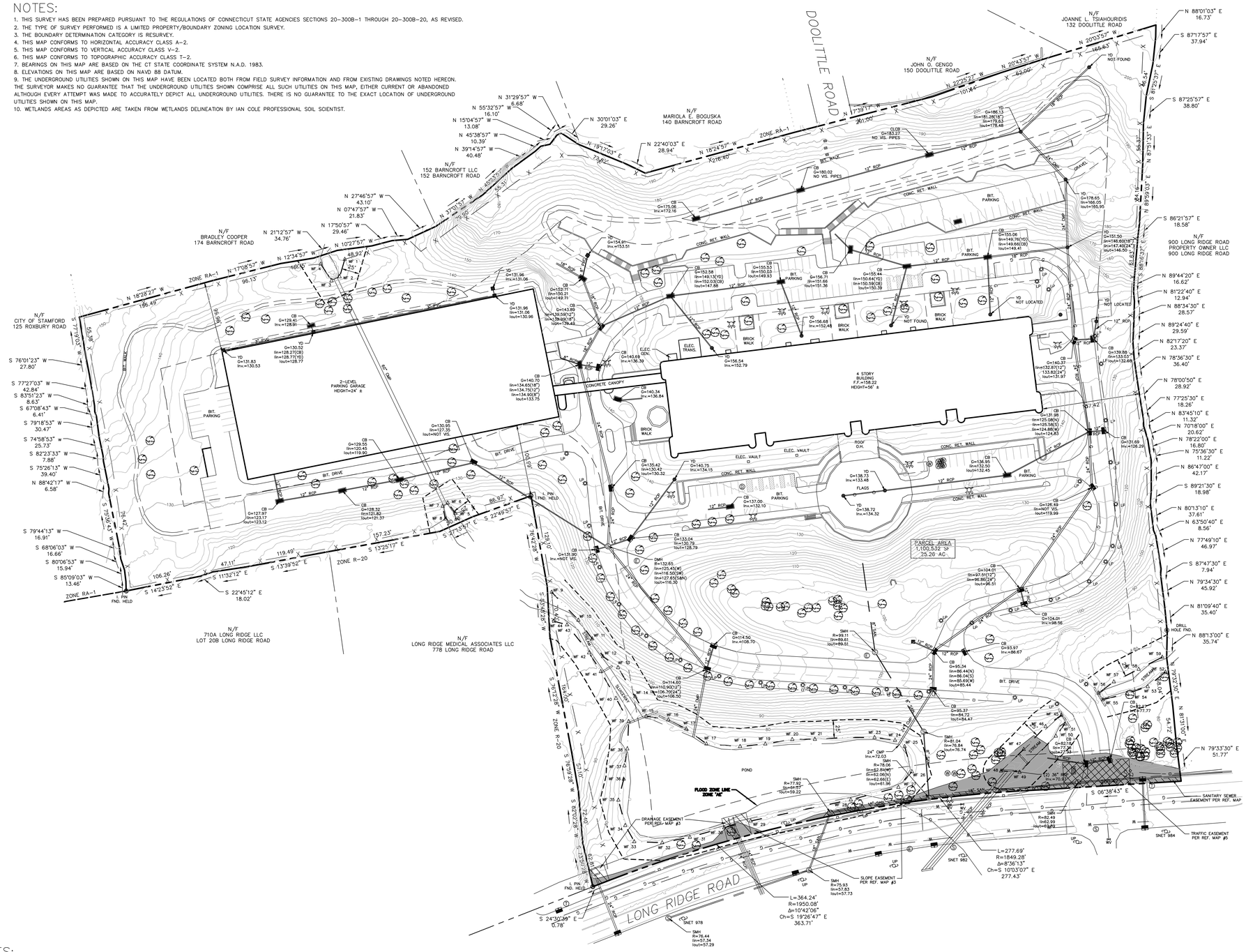
SURVEYOR
ALL SEASONS LAND SURVEYING
31 WEST DAYTON HILL ROAD
WALLINGFORD, CT 06492

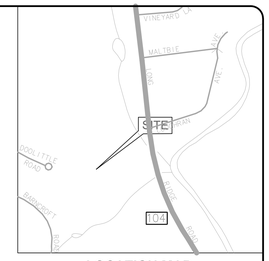
ARCHITECT
EDI INTERNATIONAL
54 EAST 12TH STREET
8TH FLOOR
NEW YORK, NY

SHEET NUMBER	DESCRIPTION
–	ZONING LOCATION SURVEY – EXISTING CONDITIONS
–	ZONING LOCATION SURVEY – PROPOSED CONDITIONS
C 1.1	OVERALL SITE PLAN
C 1.2	SITE PLAN
C 1.3	SITE PLAN
C 1.4	SITE PLAN
C 2.1	OVERALL GRADING & DRAINAGE PLAN
C 2.2	GRADING & DRAINAGE PLAN
C 2.3	GRADING & DRAINAGE PLAN
C 2.4	GRADING & DRAINAGE PLAN
C 2.5	INFILTRATION BASIN SECTION & DETAILS
C 2.6	STORM DRAINAGE DEMO PLAN
C 3.1	OVERALL UTILITY PLAN
C 3.2	UTILITY PLAN
C 3.3	UTILITY PLAN
C 3.4	UTILITY PLAN
C 4.1	OVERALL EROSION CONTROL PLAN
C 4.2	EROSION CONTROL PLAN
C 4.3	EROSION CONTROL PLAN
C 4.4	EROSION CONTROL PLAN
C 5.1	DRIVEWAY & DRAINAGE PROFILES
C 5.2	DRIVEWAY & DRAINAGE PROFILES
C 5.3	DRIVEWAY & DRAINAGE PROFILES
C 5.4	DRIVEWAY & DRAINAGE PROFILES
C 5.5	SANITARY SEWER PROFILE
C 5.6	WALKING TRAIL PROFILES
C 6.1	DETAILS
C 6.2	DETAILS
C 6.3	DETAILS
C 6.4	DETAILS
C 6.5	DETAILS
C 7.1	PROJECT NOTES & EROSION CONTROL NARRATIVE

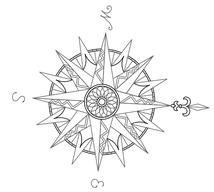
NOTES:

1. THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20–300B–1 THROUGH 20–300B–20, AS REVISED.
2. THE TYPE OF SURVEY PERFORMED IS A LIMITED PROPERTY/BOUNDARY ZONING LOCATION SURVEY.
3. THE BOUNDARY DETERMINATION CATEGORY IS RESURVEY.
4. THIS MAP CONFORMS TO HORIZONTAL ACCURACY CLASS A–2.
5. THIS MAP CONFORMS TO VERTICAL ACCURACY CLASS V–2.
6. THIS MAP CONFORMS TO TOPOGRAPHIC ACCURACY CLASS T–2.
7. BEARINGS ON THIS MAP ARE BASED ON THE CT STATE COORDINATE SYSTEM N.A.D. 1983.
8. ELEVATIONS ON THIS MAP ARE BASED ON NAVD 88 DATUM.
9. THE UNDERGROUND UTILITIES SHOWN ON THIS MAP HAVE BEEN LOCATED BOTH FROM FIELD SURVEY INFORMATION AND FROM EXISTING DRAWINGS NOTED HEREON. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES ON THIS MAP, EITHER CURRENT OR ABANDONED ALTHOUGH EVERY ATTEMPT WAS MADE TO ACCURATELY DEPICT ALL UNDERGROUND UTILITIES. THERE IS NO GUARANTEE TO THE EXACT LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS MAP.
10. WETLANDS AREAS AS DEPICTED ARE TAKEN FROM WETLANDS DELINEATION BY IAN COLE PROFESSIONAL SOIL SCIENTIST.





LOCATION MAP
NTS



STAMFORD ZONING TABLE (C-D (DESIGNED COMMERCIAL DISTRICT)		
STANDARDS	REQUIRED	EXISTING
MINIMUM LOT AREA	15 ACRES	25.26 AC
MAXIMUM BLDG. HEIGHT	4 STORIES/60'	4 STORIES/ 56' ±
BLDG. SETBACKS:		
STREET	50'	> 50'
SIDE/REAR YARD:	100'/50'**	99.96'
MAXIMUM BLDG. COVERAGE	10 %*	13.7 %
MAXIMUM LOT COVERAGE	35 %*	32.7 %

* 4 STORY DEVELOPMENT
** 100' ADJACENT TO SINGLE FAMILY / 50' OTHER

LEGEND

- PROPERTY LINE
- BUILDING SETBACK LINE
- EXISTING CONTOUR
- TREE LINE
- WETLAND LINE
- EXISTING GUIDE RAIL
- HYDRANT
- WATER VALVE
- EXISTING WATER MAIN
- EXISTING STONE WALL
- EXISTING SANITARY SEWER MAIN
- EXISTING GAS LINE
- EXISTING STORM SEWER
- EXISTING ELECTRIC
- EXISTING FENCE
- EXISTING SITE LIGHT
- STORM DRAINAGE MANHOLE
- CATCH BASIN
- SANITARY SEWER MANHOLE
- TREE SYMBOLS
- UTILITY POLE
- DRILL HOLE
- IRON PIN
- DRAINAGE EASEMENT
- TRAFFIC EASEMENT
- SANITARY EASEMENT
- SLOPE EASEMENT
- 25' WETLAND BUFFER

MAP REFERENCES:

1. "DATA ACCUMULATION PLAN PREPARED FOR 800 LONG RIDGE, LLC 824 LONG RIDGE ROAD (AKA 800) STAMFORD, CONNECTICUT"
   SCALE:1"=80' JULY 24, 2008 BY:SPATH–BJORKLUND ASSOCIATES
2. "MAP OF PROPERTY OF ROBERT B. KAHAN, TRUSTEE STAMFORD, CONN." SCALE:1"=100' MAR. 30, 1970 S.L.R. #8927
3. "TOWN OF STAMFORD MAP SHOWING LAND ACQUIRED FROM XEROX CORPORATION BY THE STATE OF CONNECTICUT ROUTE 104"
   SCALE:1"=40' JUNE 1976 S.L.R. #9812
4. "MAP SHOWING SANITARY SEWER EASEMENT IN STAMFORD, CONNECTICUT THROUGH PROPERTY OF XEROX CORPORATION"
   SCALE:1"=30' OCT. 21, 1976 S.L.R. #9878
5. "TOWN OF STAMFORD MAP SHOWING EASEMENT ACQUIRED FROM XEROX CORPORATION BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION ROUTE 104 LONG RIDGE ROAD AT XEROX DR. AND LOUGHRAN AVE." SCALE:1"=500M JULY 18, 1997 S.L.R. #12829

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP AND SURVEY ARE SUBSTANTIALLY CORRECT AS NOTED HEREON.

THIS MAP IS NOT VALID UNLESS IT BEARS THE LIVE SIGNATURE AND SEAL OF THE UNDERSIGNED LAND SURVEYOR.

DANIEL C. LAFERRIERE
LICENSED LAND SURVEYOR, REG# 70492

60 0 30 60 120
1 inch = 60 feet

ZONING LOCATION SURVEY
EXISTING CONDITIONS SURVEY

PREPARED FOR

800 LONG RIDGE LLC
800 LONG RIDGE ROAD
STAMFORD, CONNECTICUT

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SCALE: 1" = 60' AUGUST 15, 2023
REVISED: AUGUST 16, 2023 – GENERAL REVISIONS
AUGUST 29, 2023 – GENERAL REVISIONS
OCTOBER 3, 2023 – REVISE TOTAL COV. CALCS.
PROJ. NO.: 0713

ALL SEASONS Land Surveying

LAND SURVEYING - LAND PLANNING
44 Fair Street
Wallingford, CT 06492
1 John Street
Millerton, NY 12546
Phone: (860) 274-5053
dan@allseasonslandsurveying.com
allseasonslandsurveying.com

NOTES:

1. THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20–300B–1 THROUGH 20–300B–20, AS REVISED.
2. THE TYPE OF SURVEY PERFORMED IS A LIMITED PROPERTY/BOUNDARY ZONING LOCATION SURVEY.
3. THE BOUNDARY DETERMINATION CATEGORY IS RESURVEY.
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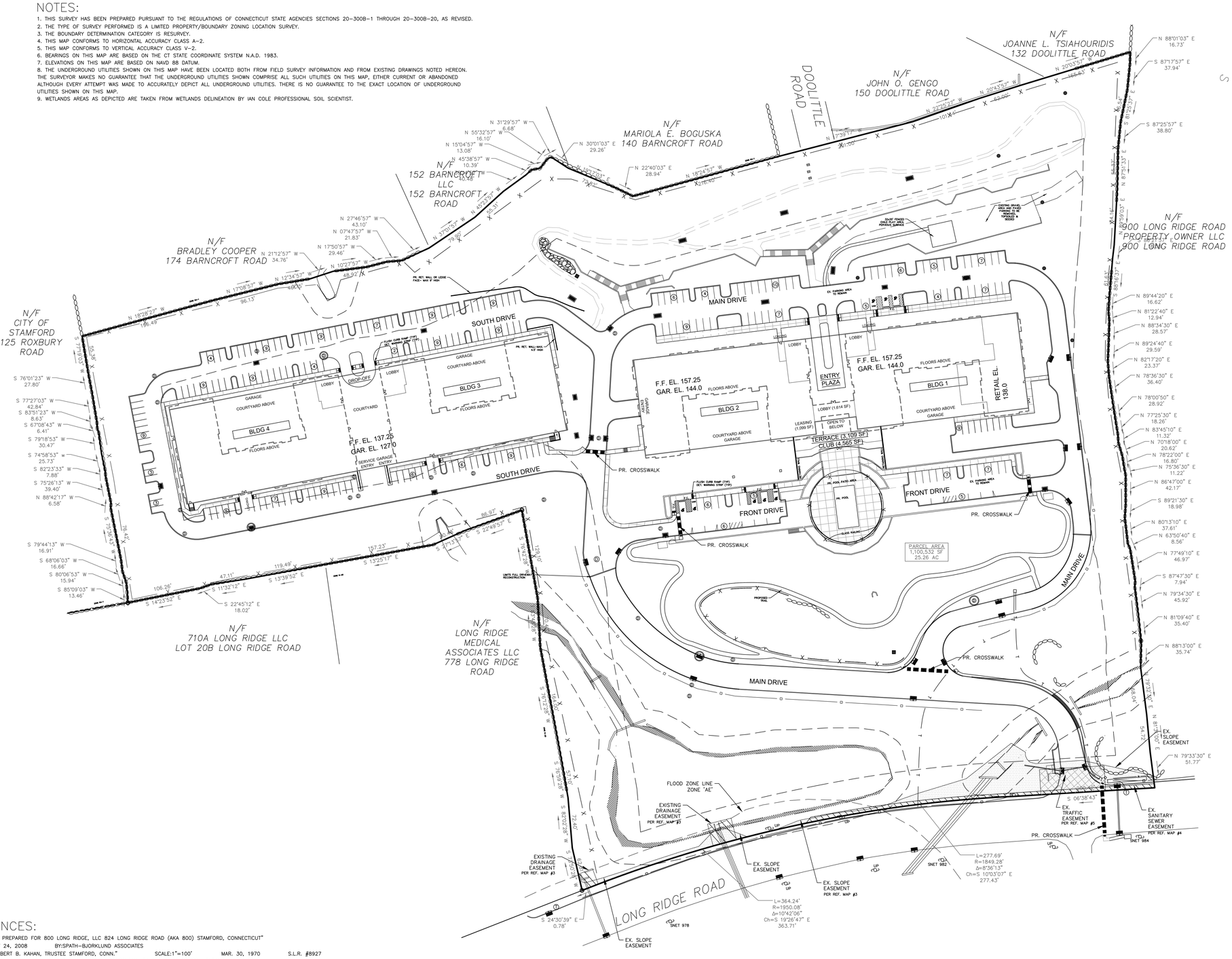

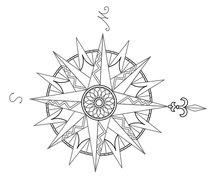

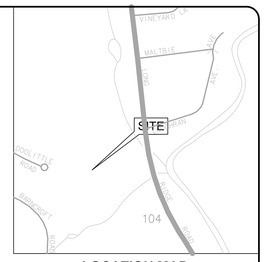

LOCATION MAP
NTS

LEGEND

- PROPERTY LINE
- BUILD–TO LINE
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT TO REMAIN
- EXISTING & PROPOSED BIT. PAVEMENT
- CONCRETE SIDEWALK/PAVER AREA
- EXISTING STONE WALL
- PROPOSED DRAINAGE MANHOLE
- EXISTING DRAINAGE MANHOLE
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- WETLANDS
- 25' WETLANDS REGULATED AREA
- UTILITY POLE
- DRILL HOLE
- IRON PIN
- DRAINAGE EASEMENT
- TRAFFIC EASEMENT
- SANITARY EASEMENT
- SLOPE EASEMENT

ZONING LOCATION SURVEY
PROPOSED CONDITIONS SURVEY

PREPARED FOR

800 LONG RIDGE LLC
800 LONG RIDGE ROAD
STAMFORD, CONNECTICUT

COPYRIGHT © 2023

SCALE: 1" = 60' OCTOBER 6, 2023
REVISED: JANUARY 3, 2024 – GENERAL REVISIONS
REVISED: JANUARY 22, 2024 – GENERAL REVISIONS
REVISED: MAY 28, 2024 – GENERAL REVISIONS

PROJ. NO.: 0713

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6. "ZONING LOCATION SURVEY – EXISTING CONDITIONS PREPARED FOR 800 LONG RIDGE LLC" SCALE" 1" = 60' AUGUST 15, 2023, REV. OCTOBER 3, 2023 BY: ALL SEASONS LAND SURVEYING

60 0 30 60 120
1 inch = 60 feet

LAND SURVEYING - LAND PLANNING
44 Fair Street
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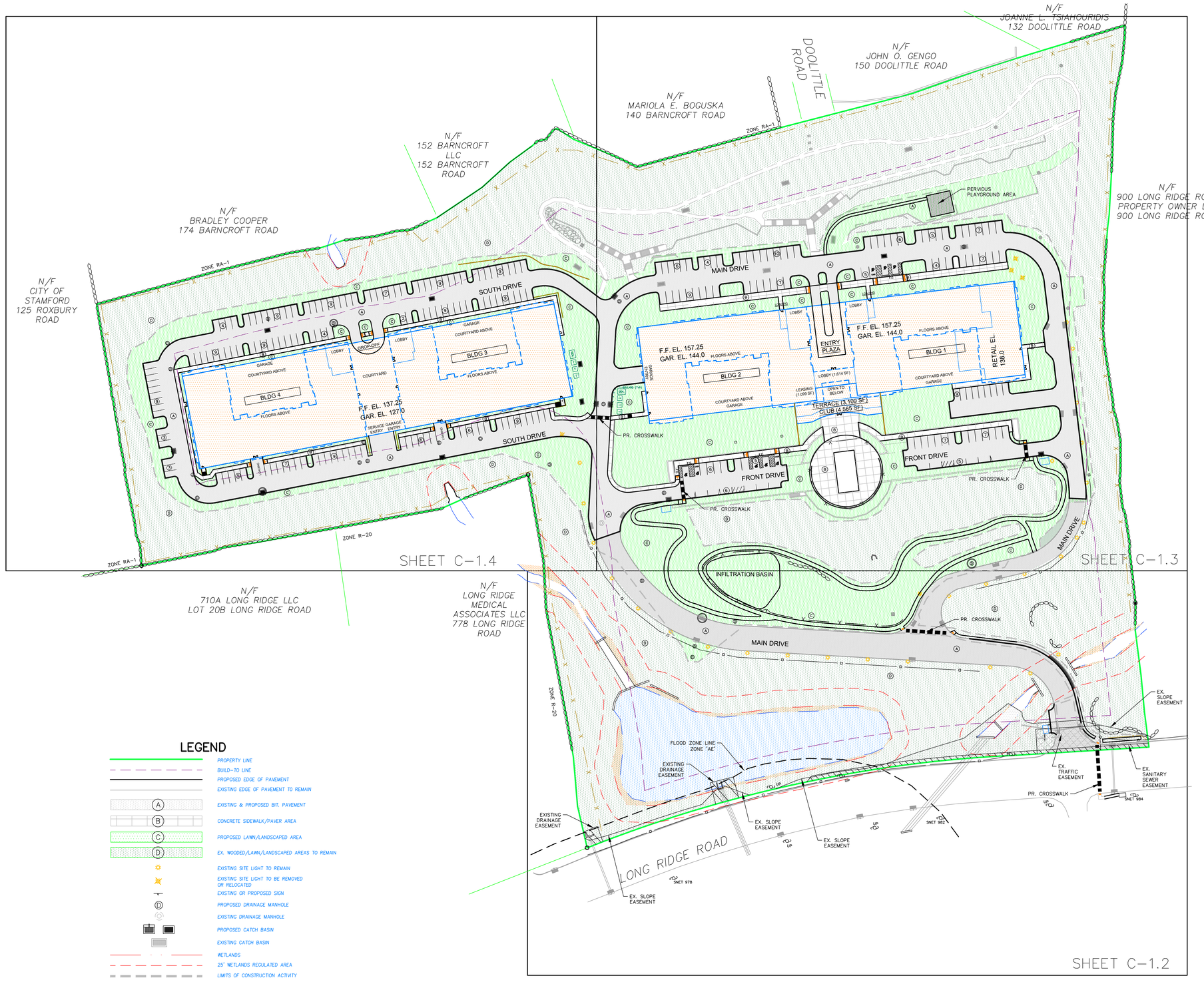
dan@allseasonslandsurveying.com
allseasonslandsurveying.com



LEGEND

- PROPERTY LINE
- BUILD-TO LINE
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT TO REMAIN
- (A) EXISTING & PROPOSED BIT. PAVEMENT
- (B) CONCRETE SIDEWALK/PAVER AREA
- (C) PROPOSED LAWN/LANDSCAPED AREA
- (D) EX. WOODED/LAWN/LANDSCAPED AREAS TO REMAIN
- EXISTING SITE LIGHT TO REMAIN
- EXISTING SITE LIGHT TO BE REMOVED OR RELOCATED
- EXISTING OR PROPOSED SIGN
- (D) PROPOSED DRAINAGE MANHOLE
- EXISTING DRAINAGE MANHOLE
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- WETLANDS
- 25' WETLANDS REGULATED AREA
- LIMITS OF CONSTRUCTION ACTIVITY

NOTES:

1. REFER TO LANDSCAPING PLAN PREPARED BY ENVIRONMENTAL LAND SOLUTIONS FOR DETAILED LIGHTING PLAN, LANDSCAPING PLAN AND COURTYARD AREA DETAILING.

NO.	REVISION	DATE
1	REVISED PER ARCHITECT & CLIENT	03 JAN 24
2	REVISED PER CLIENT	22 JAN 24
3	REVISED PER ENGINEERING REVIEW	14 MAY 24
4	REVISED PER CLIENT & STAFF	28 MAY 24

Previous Editions Obsolete

60 0 30 60 120

1 inch = 60 feet

800 LONG RIDGE ROAD, LLC
100 WASHINGTON BLVD.
SUITE 200
STAMFORD, CT 06902

OVERALL SITE PLAN

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

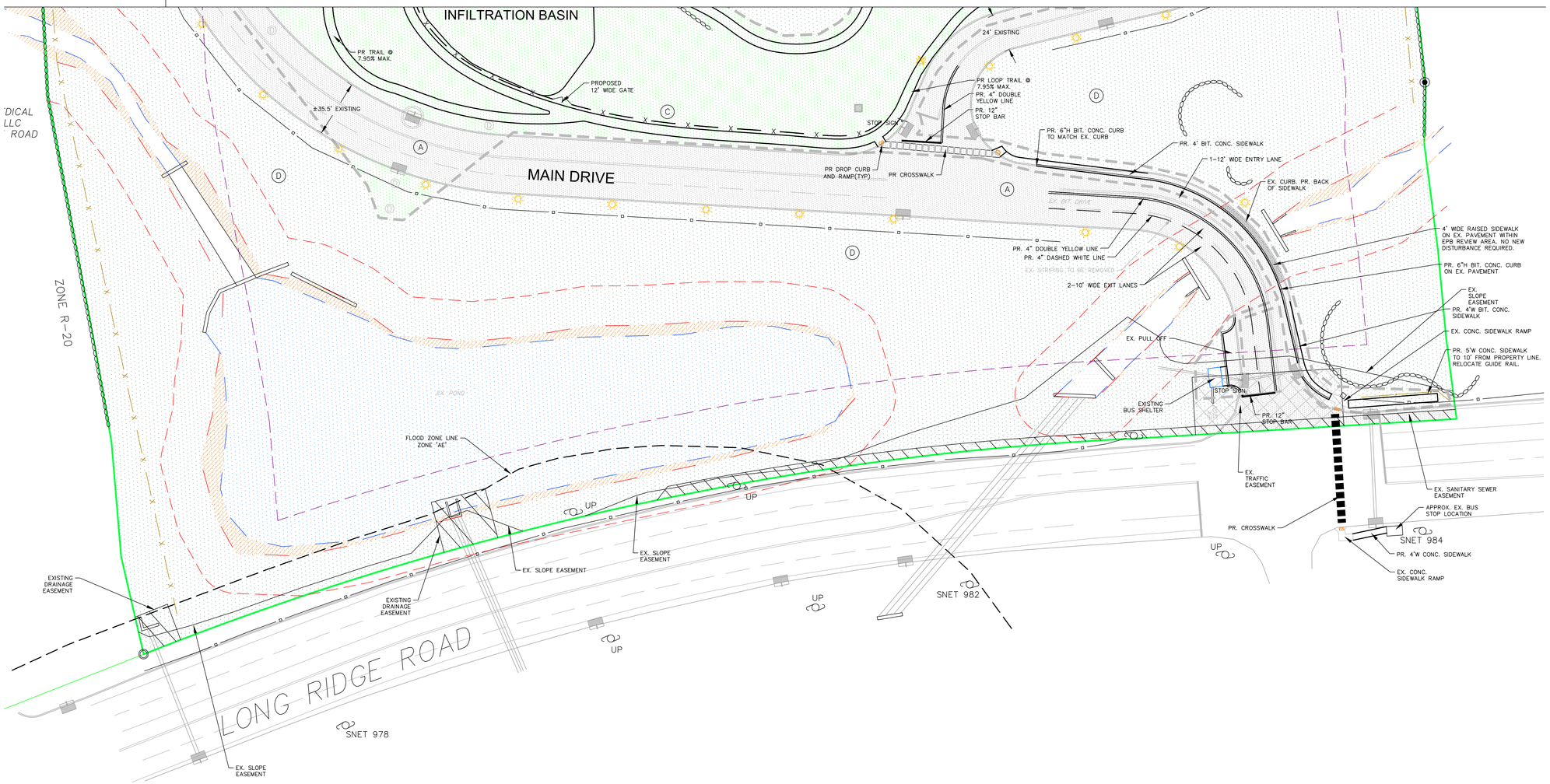
CIVIL C1
CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY (203) 266 - 0778 CONNECTICUT

STATE OF CONNECTICUT CLAYTON C. JOHNSON No. 18198 LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 60'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 1.1	

MATCH LINE SHEET C-1.4

MATCH LINE SHEET C-1.3



LEGEND

- PROPERTY LINE
- BUILD-TO LINE
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT TO REMAIN
- (A) EXISTING & PROPOSED BIT. PAVEMENT
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- (C) PROPOSED LAWN/LANDSCAPED AREA
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- EXISTING SITE LIGHT TO REMAIN
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- EXISTING OR PROPOSED SIGN
- PROPOSED DRAINAGE MANHOLE
- EXISTING DRAINAGE MANHOLE
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- WETLANDS
- 25' WETLANDS REGULATED AREA
- LIMITS OF CONSTRUCTION ACTIVITY

NOTES:

1. REFER TO LANDSCAPING PLAN PREPARED BY ENVIRONMENTAL LAND SOLUTIONS FOR DETAILED LIGHTING PLAN, LANDSCAPING PLAN AND COURTYARD AREA DETAILING.

NO.	REVISION	DATE
1	REVISED PER ARCHITECT & CLIENT	03 JAN 24
2	REVISED PER ENGINEERING REVIEW	14 MAY 24

Previous Editions Obsolete

30 0 15 30 60

1 inch = 30 feet

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STAMFORD, CT 06902

SITE PLAN

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

CIVIL 1

CORNERSTONE PROFESSIONAL PARK, SUITE D-101
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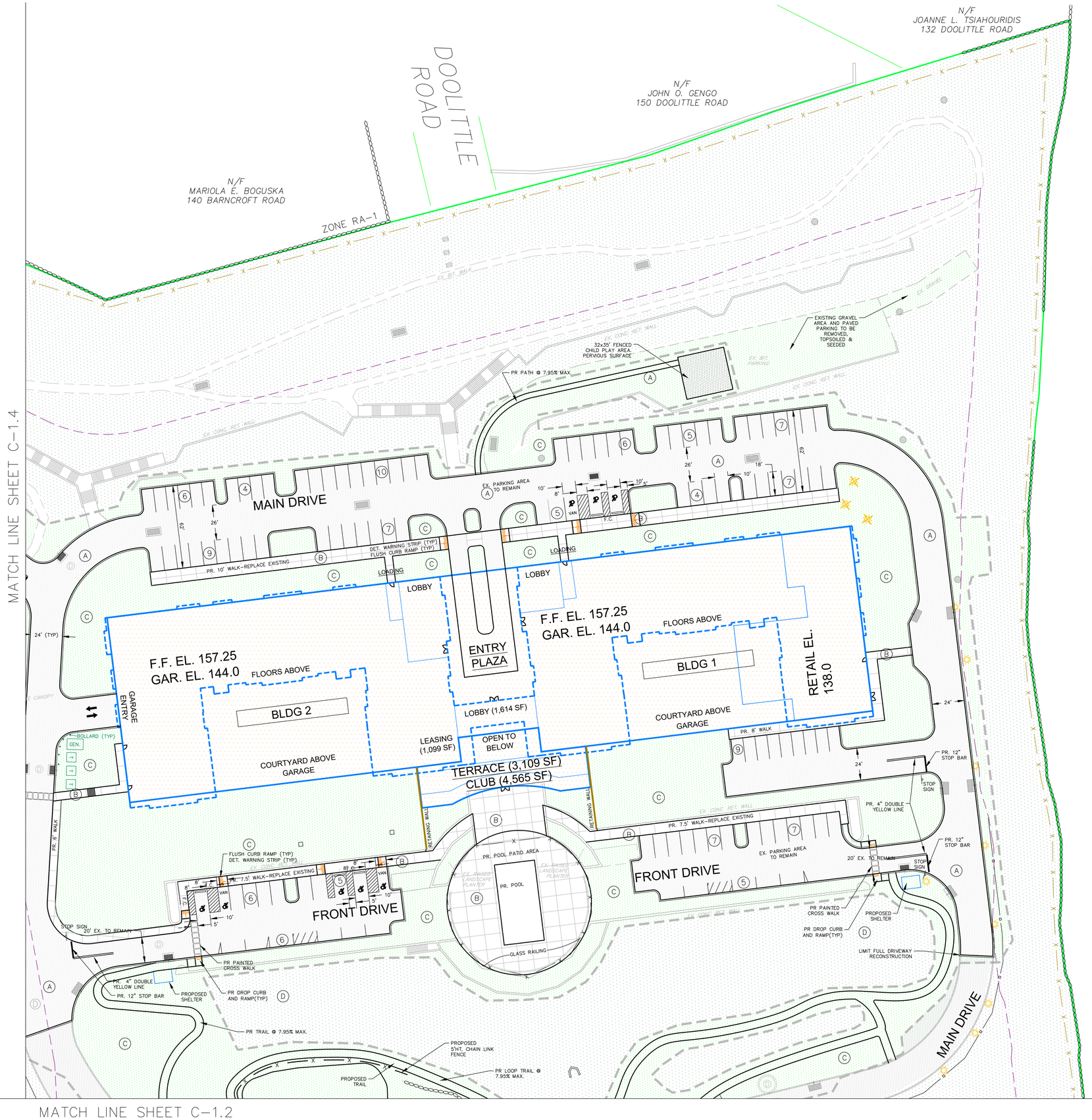
(203) 266 - 0778

WOODBURY CONNECTICUT

STATE OF CONNECTICUT · CURTIS C. JOHNSON · No. 22008 · LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 30'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 1.2	



LEGEND

- PROPERTY LINE
- BUILD-TO LINE
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT TO REMAIN
- (A) EXISTING & PROPOSED BIT. PAVEMENT
- (B) CONCRETE SIDEWALK/PAVER AREA
- (C) PROPOSED LAWN/LANDSCAPED AREA
- (D) EX. WOODED/LAWN/LANDSCAPED AREAS TO REMAIN
- EXISTING SITE LIGHT TO REMAIN
- EXISTING SITE LIGHT TO BE REMOVED OR RELOCATED
- EXISTING OR PROPOSED SIGN
- (D) PROPOSED DRAINAGE MANHOLE
- EXISTING DRAINAGE MANHOLE
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- WETLANDS
- 25' WETLANDS REGULATED AREA
- LIMITS OF CONSTRUCTION ACTIVITY

NOTES:

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Previous Editions Obsolete

30 0 15 30 60
1 inch = 30 feet

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STAMFORD, CT 06902

SITE PLAN

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

CIVIL 1
CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY (203) 266 - 0778 CONNECTICUT

STATE OF CONNECTICUT CHRIS C. JOHNSON No. 18308 LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 30'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 1.3	

LEGEND

- PROPERTY LINE
- BUILD-TO LINE
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT TO REMAIN
- (A) EXISTING & PROPOSED BIT. PAVEMENT
- (B) CONCRETE SIDEWALK/PAVER AREA
- (C) PROPOSED LAWN/LANDSCAPED AREA
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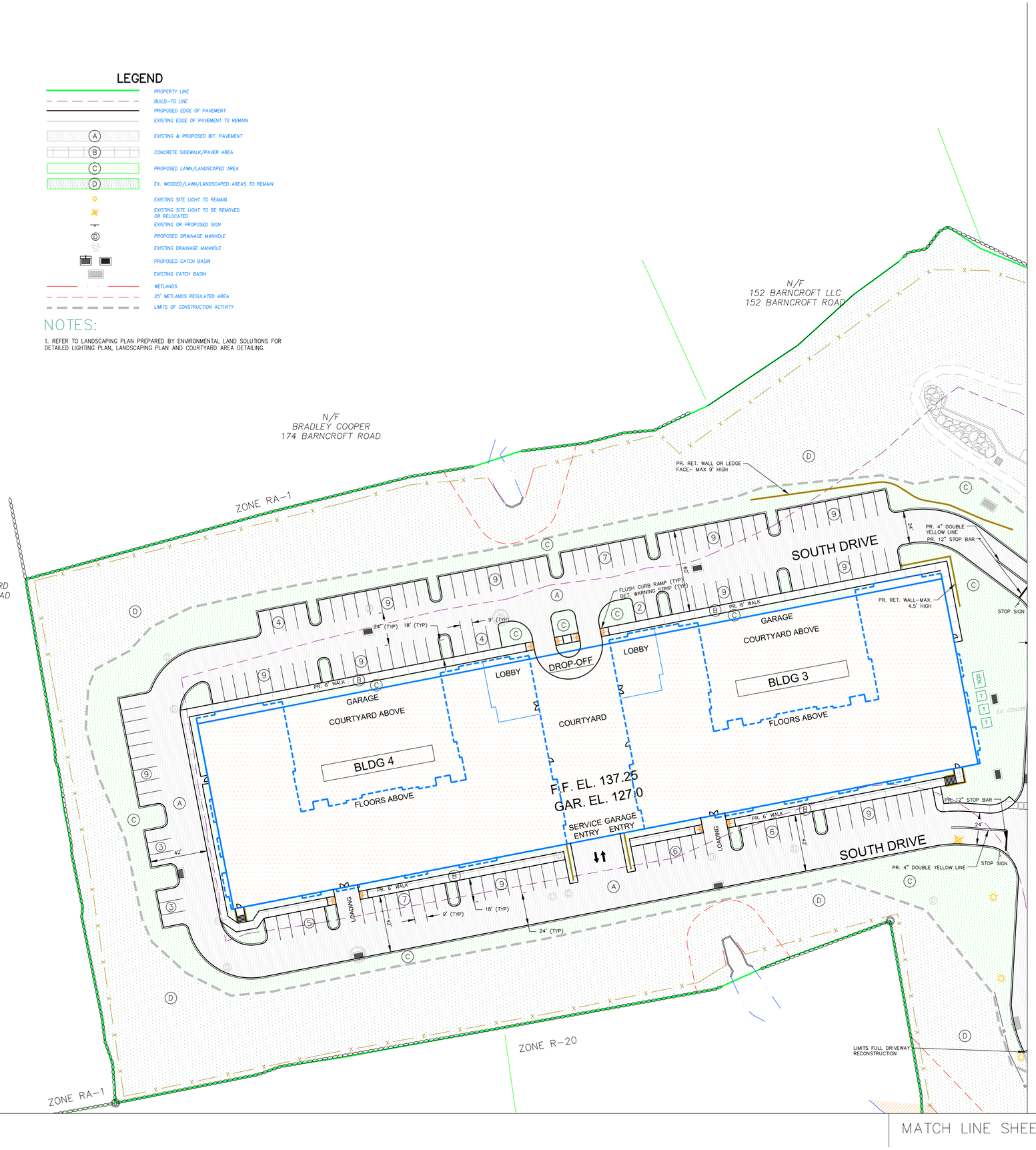
- PROPOSED DRAINAGE MANHOLE
- EXISTING DRAINAGE MANHOLE
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- WETLANDS
- 25' WETLANDS REGULATED AREA
- LIMITS OF CONSTRUCTION ACTIVITY

NOTES:

1. REFER TO LANDSCAPING PLAN PREPARED BY ENVIRONMENTAL LAND SOLUTIONS FOR DETAILED LIGHTING PLAN, LANDSCAPING PLAN AND COURTYARD AREA DETAILING.



NO.	REVISION	DATE
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SITE PLAN

800 LONG RIDGE ROAD

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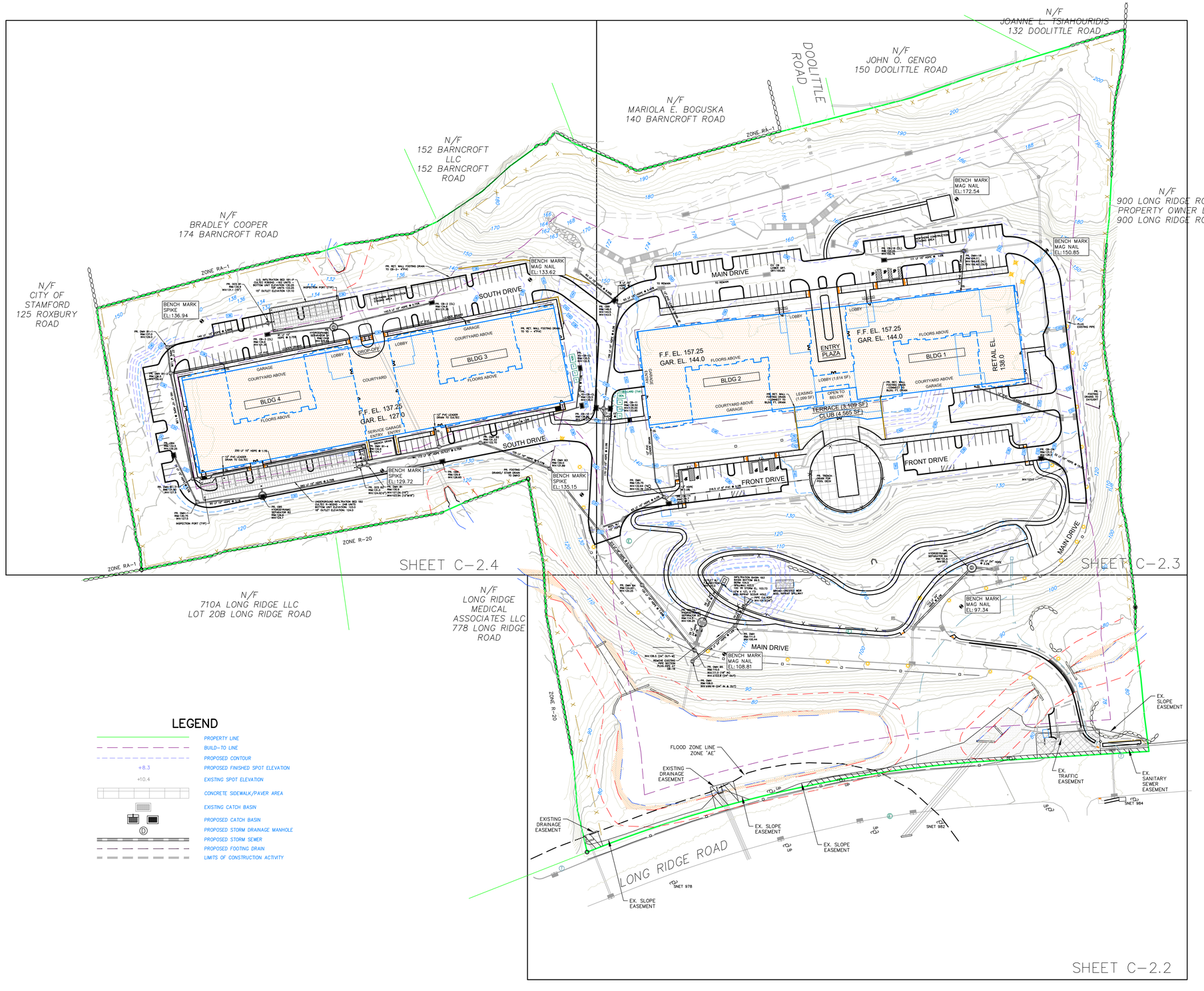
STATE OF CONNECTICUT · CHRIS C. JOHNSON · No. 18308 · LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 30'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 1.4	



LEGEND

- PROPERTY LINE
- BUILD-TO LINE
- PROPOSED CONTOUR
- +8.3 PROPOSED FINISHED SPOT ELEVATION
- +10.4 EXISTING SPOT ELEVATION
- CONCRETE SIDEWALK/PAVER AREA
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- PROPOSED STORM DRAINAGE MANHOLE
- PROPOSED STORM SEWER
- PROPOSED FOOTING DRAIN
- LIMITS OF CONSTRUCTION ACTIVITY

NOTES

1. ALL EXISTING DRAIN STRUCTURES TO REMAIN ARE TO BE TV INSPECTED. DESIGN ENGINEER TO REVIEW THE RESULTS.
2. TWO (2') DEEP SUMPS ARE TO BE PROVIDED ON ALL NEW AND EXISTING CATCH BASINS.
3. HOODS / BELL TRAPS ARE TO BE PROVIDED ON ALL OUTLET PIPES OF EXISTING OR PROPOSED CATCH BASINS.

NO.	REVISION	DATE
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60 0 30 60 120
1 inch = 60 feet

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OVERALL GRADING AND DRAINAGE PLAN

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

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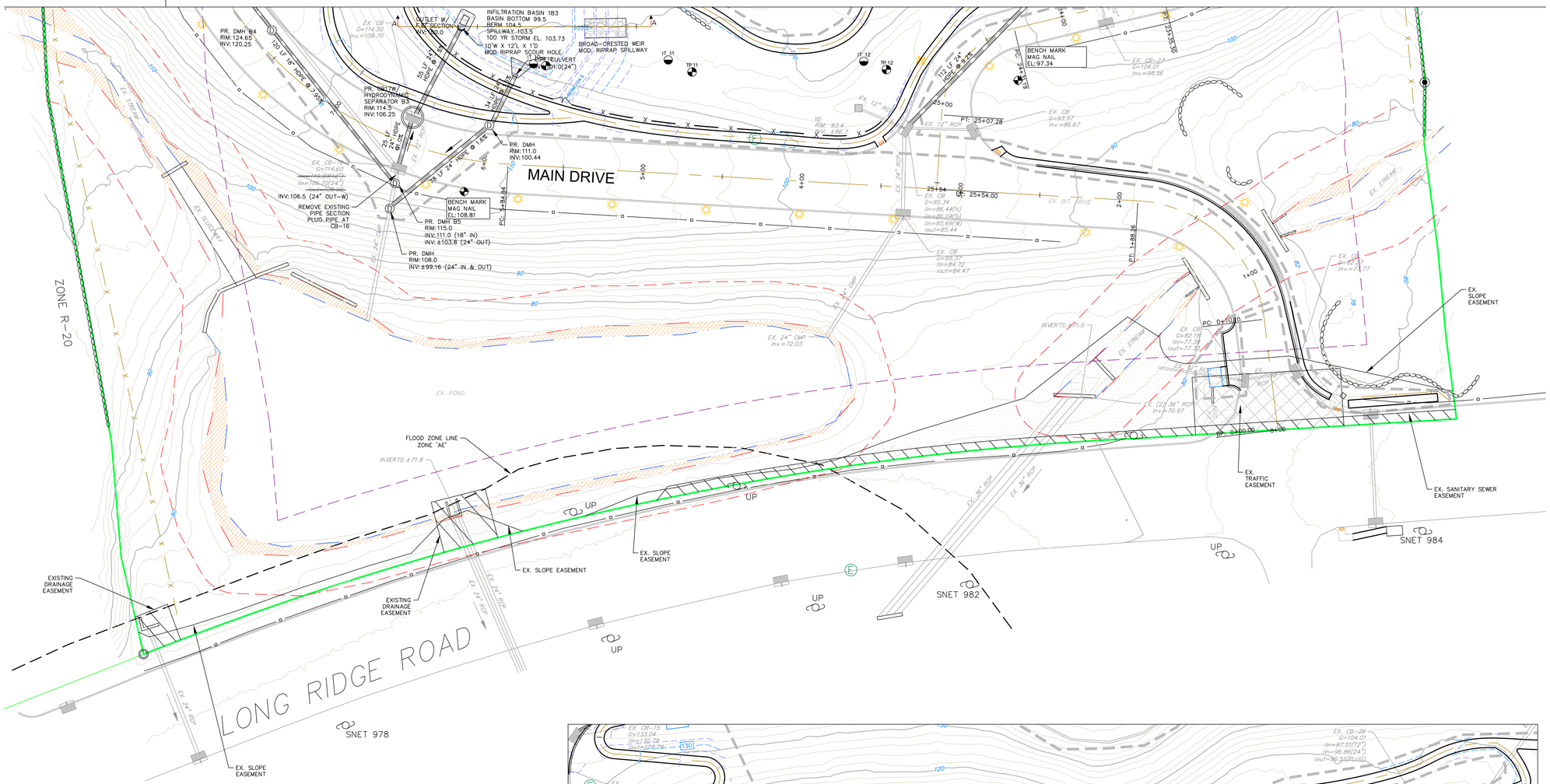
WOODBURY (203) 266 - 0778 CONNECTICUT

STATE OF CONNECTICUT · CHRIS C. JOHNSON · No. 18208 · LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 60'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 2.1	

MATCH LINE SHEET C-2.4

MATCH LINE SHEET C-2.3



SOIL TESTING RESULTS

Deep Test Pit #9 March 14, 2024
0–24" Topsoil
24–50" Orange Fine Silty Loam
50–70" Moderately Compact Sandy Silt
Mottling at 60"
Groundwater Seep at 60"

Deep Test Pit #10 March 14, 2024
0–15" Misc Fill
15–26" Original Topsoil
26–40" Orange Sandy Loam with Silt
40–96" Compact Wet Silty Sand
Restrictive Layer at 40"
Roots to 60"
Groundwater Seep at 67"

Deep Test Pit #11 March 14, 2024
0–24" Topsoil
24–48" Orange Mottled Sandy Loam with Silt
48–96" Compact Medium Sand & Gravel
Mottling at 24"
Roots to 48"
Groundwater at 90"

Deep Test Pit #12 March 14, 2024
0–28" Fill
28–32" Original Topsoil
32–40" Orange Brown Compact Sand
40–72" Compact Sand & Gravel
Roots to 32"
Groundwater seep at 24"

Infiltration Test #9 May 2, 2024
Depth = 30"
Time Reading
3:45 13 – 1/2"
3:55 14 – 1/8"
4:05 14 – 1/2"
4:15 14 – 7/8"
4:25 15 – 3/8"
4:35 15 – 5/8"
4:45 15 – 7/8"
Percolation Rate = 40 Minutes per Inch

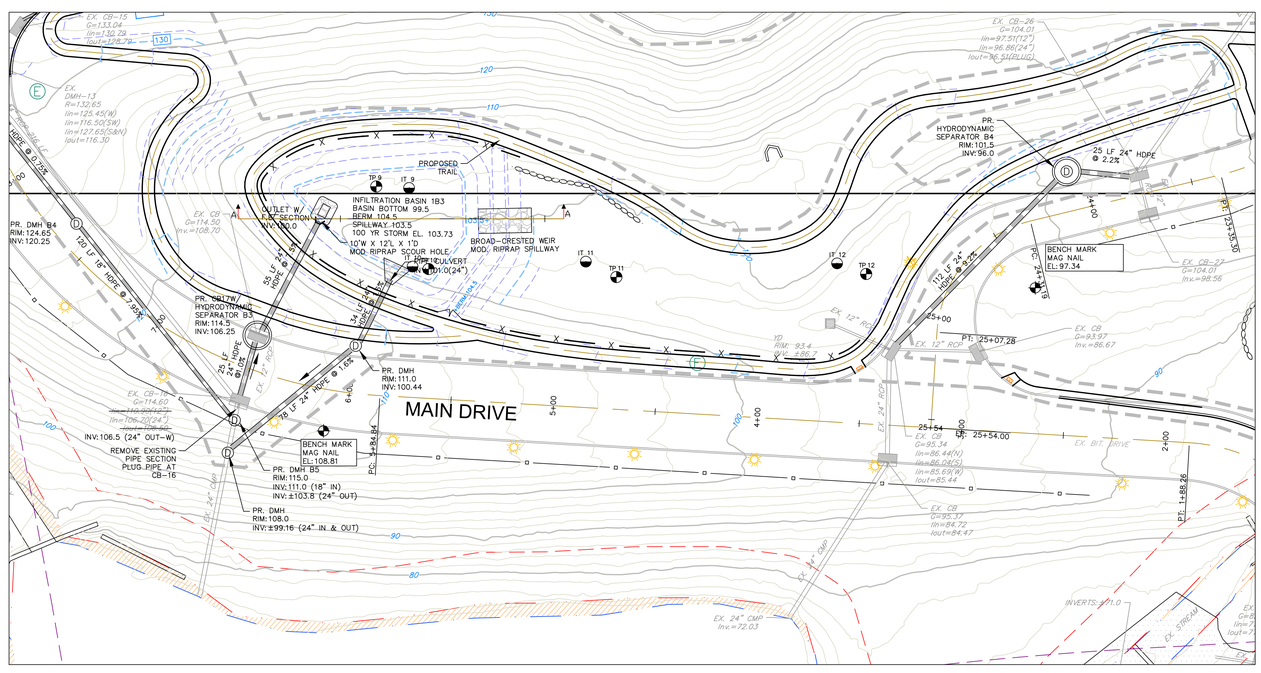
Infiltration Test #10 May 2, 2024
Depth = 30"
Time Reading
3:45 5 – 3/4"
3:55 6 – 1/4"
4:05 6 – 1/2"
4:15 6 – 3/4"
4:25 7"
4:35 7 – 1/4"
4:45 7 – 1/2"
Percolation Rate = 40 Minutes per Inch

Infiltration Test #11 March 14, 2024
Depth = 50"
Time Reading
00:00 4 – 3/8"
00:10 5"
00:20 5 – 5/8"
00:30 6 – 1/8"
00:40 6 – 5/8"
00:50 7 – 1/8"
01:00 8 – 5/8"
Percolation Rate = 20 minutes per inch

Infiltration Test #12 March 14, 2024
Depth = 64"
Time Reading
00:00 13 – 1/2"
00:10 22 – 3/4"
00:20 24 – 1/2"
00:30 26 – 1/2"
00:40 28 – 1/2"
00:50 30" – DRY
Percolation Rate = 5 minutes per inch

LEGEND

	PROPERTY LINE
	BUILD-TO LINE
	PROPOSED CONTOUR
+8.3	PROPOSED FINISHED SPOT ELEVATION
+10.4	EXISTING SPOT ELEVATION
	CONCRETE SIDEWALK/PAVER AREA
	EXISTING CATCH BASIN
	PROPOSED CATCH BASIN
	PROPOSED STORM DRAINAGE MANHOLE
	PROPOSED STORM SEWER
	PROPOSED FOOTING DRAIN
	LIMITS OF CONSTRUCTION ACTIVITY
TP 2	DEEP TEST PIT LOCATION
IT 2	INFILTRATION TEST LOCATION



INFILTRATION BASIN AREA DETAIL

1" = 30'

NO.	REVISION	DATE
1	REVISED PER ARCHITECT & CLIENT	03 JAN 24
2	REVISED PER ENGINEERING REVIEW	14 MAY 24

Previous Editions Obsolete

30 0 15 30 60
1 inch = 30 feet

800 LONG RIDGE ROAD, LLC
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SUITE 200
STAMFORD, CT 06902

GRADING & DRAINAGE PLAN

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

CIVIL 1
CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY (203) 266 - 0778 CONNECTICUT

STATE OF CONNECTICUT · CURTIS C. JOHNSON · No. 22008 · LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 30'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 2.2	

LEGEND

- PROPERTY LINE
- BUILD-TO LINE
- PROPOSED CONTOUR
- +8.3 PROPOSED FINISHED SPOT ELEVATION
- +10.4 EXISTING SPOT ELEVATION
- CONCRETE SIDEWALK/PAVER AREA
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- PROPOSED STORM DRAINAGE MANHOLE
- PROPOSED STORM SEWER
- PROPOSED FOOTING DRAIN
- LIMITS OF CONSTRUCTION ACTIVITY
- TP 2 DEEP TEST PIT LOCATION
- IT 2 INFILTRATION TEST LOCATION

SOIL TESTING RESULTS

Deep Test Pit #5 March 14, 2024
0–6" Topsoil
6–28" Orange Granular Sand
28–65" Blast Rock Backfill
Groundwater Seep at 28"

Deep Test Pit #6 March 14, 2024
0–4" Topsoil
4–14" Orange Granular Sand
14–40" Gray Proceed Gravel
Ledge at 40"

Deep Test Pit #7 March 14, 2024
0–6" Topsoil
6–48" Misc Fill w/ Rocks
Groundwater Seep at 26"

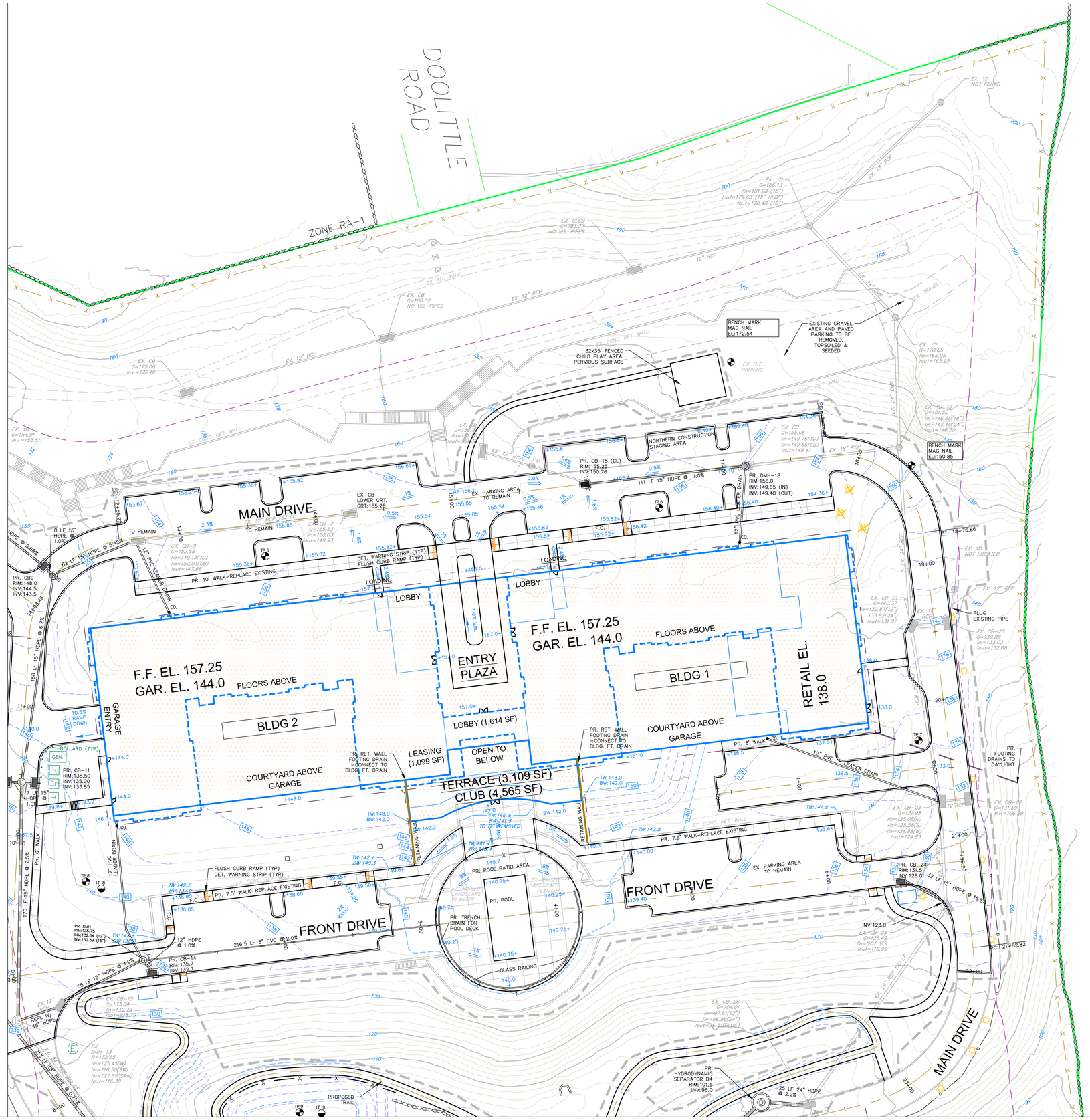
Deep Test Pit #8 March 14, 2024
0–64" Blasted Rock Fill
64–90" Original Top Soil and Stone Mix

Deep Test Pit #9 March 14, 2024
0–24" Topsoil
24–50" Orange Fine Silty Loam
50–70" Moderately Compact Sandy Silt
Mottling at 60"
Groundwater Seep at 60"

Infiltration Test #8 March 14, 2024
Depth = 20" + 74"
Time Reading
00:00 5 – 3/4"
00:10 5 – 3/4"
00:20 5 – 3/4"
Percolation Rate = Does Not Drain

Infiltration Test #9 May 2, 2024
Depth = 30"
Time Reading
3:45 13 – 1/2"
3:55 14 – 1/8"
4:05 14 – 1/2"
4:15 14 – 7/8"
4:25 15 – 3/8"
4:35 15 – 5/8"
4:45 15 – 7/8"
Percolation Rate = 40 Minutes per Inch

MATCH LINE SHEET C–2.4



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30 0 15 30 60
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GRADING & DRAINAGE PLAN

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

CIVIL 1
CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY (203) 266 - 0778 CONNECTICUT

STATE OF CONNECTICUT CURTIS C. ADWIN No. 20208 LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 30'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 2.3	

SOIL TESTING RESULTS

Deep Test Pit #1 March 13, 2024
0–8" Topsoil
8–80" Fine Medium Sand
No Roots
Groundwater Seep at 52"
Ledge at 80"

Deep Test Pit #2 March 13, 2024
0–18" Topsoil/Misc. Fill
18–32" Orange Sandy Loam
32–60" Mottled Sand
Roots to 32"
Groundwater Seep at 32"
Ledge at 60"

Deep Test Pit #3 March 13, 2024
0–5" Topsoil
5–29" Silty Sand
29–54" Gray Fine Silty Sand
No Groundwater
No Ledge
Large Boulder at 31–54"

Deep Test Pit #3A March 13, 2024
0–93" Fill
93–105" Original TS/Root Mat
105–110" Orange Sand, trace Silt
No Groundwater
Large Rocks in Fill

Deep Test Pit #4 March 13, 2024
0–38" Misc. Fill
38–40" Gray Stone/Gravel
40–72" Orange Sand, trace Silt
No Groundwater
Large Boulders and Rocks in Fill

Infiltration Test #2 March 13, 2024
Depth = 15" + 36"
Time Reading
00:00 13"
00:10 15–1/2"
00:20 16–1/2"
00:30 17–1/4"
00:40 17–1/2"
00:50 18"
01:00 18–1/4"
Percolation Rate = 40 minutes per inch

Infiltration Test #3A March 13, 2024
Depth = 17" + 65"
Time Reading
00:00 6"
00:10 16"
00:20 19" – DRY
Percolation Rate = 1.0 minutes per inch

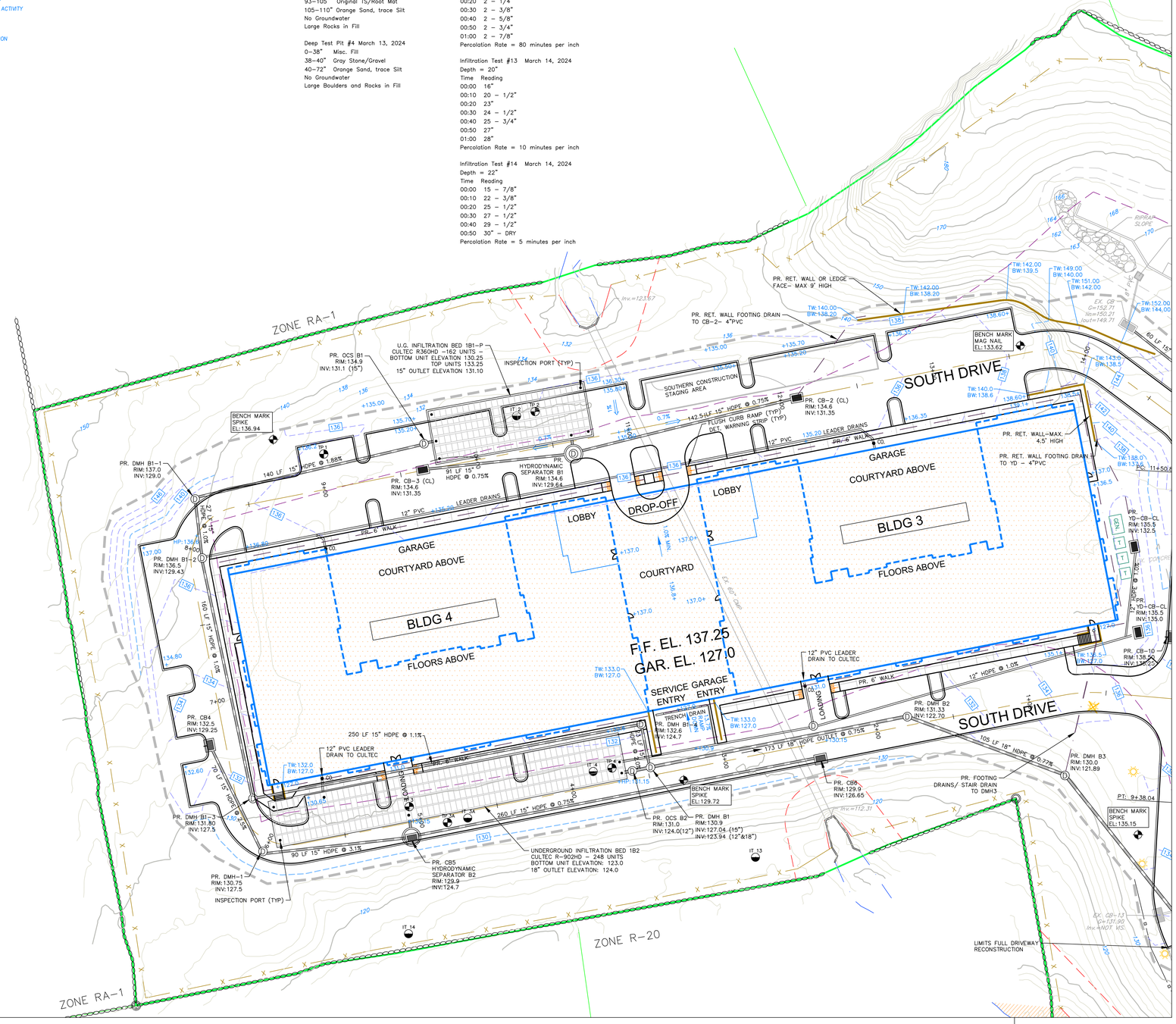
Infiltration Test #4 March 13, 2024
Depth = 19" + 42"
Time Reading
00:00 1 – 1/2"
00:10 2"
00:20 2 – 1/4"
00:30 2 – 3/8"
00:40 2 – 5/8"
00:50 2 – 3/4"
01:00 2 – 7/8"
Percolation Rate = 80 minutes per inch

Infiltration Test #13 March 14, 2024
Depth = 20"
Time Reading
00:00 16"
00:10 20 – 1/2"
00:20 23"
00:30 24 – 1/2"
00:40 25 – 3/4"
00:50 27"
01:00 28"
Percolation Rate = 10 minutes per inch

Infiltration Test #14 March 14, 2024
Depth = 22"
Time Reading
00:00 15 – 7/8"
00:10 22 – 3/8"
00:20 25 – 1/2"
00:30 27 – 1/2"
00:40 29 – 1/2"
00:50 30" – DRY
Percolation Rate = 5 minutes per inch

LEGEND

- PROPERTY LINE
- BUILD-TO LINE
- PROPOSED CONTOUR
- +8.3 PROPOSED FINISHED SPOT ELEVATION
- +10.4 EXISTING SPOT ELEVATION
- CONCRETE SIDEWALK/PAVER AREA
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- PROPOSED STORM DRAINAGE MANHOLE
- PROPOSED STORM SEWER
- PROPOSED FOOTING DRAIN
- LIMITS OF CONSTRUCTION ACTIVITY
- TP-2 DEEP TEST PIT LOCATION
- IT-2 INFILTRATION TEST LOCATION



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GRADING & DRAINAGE PLAN

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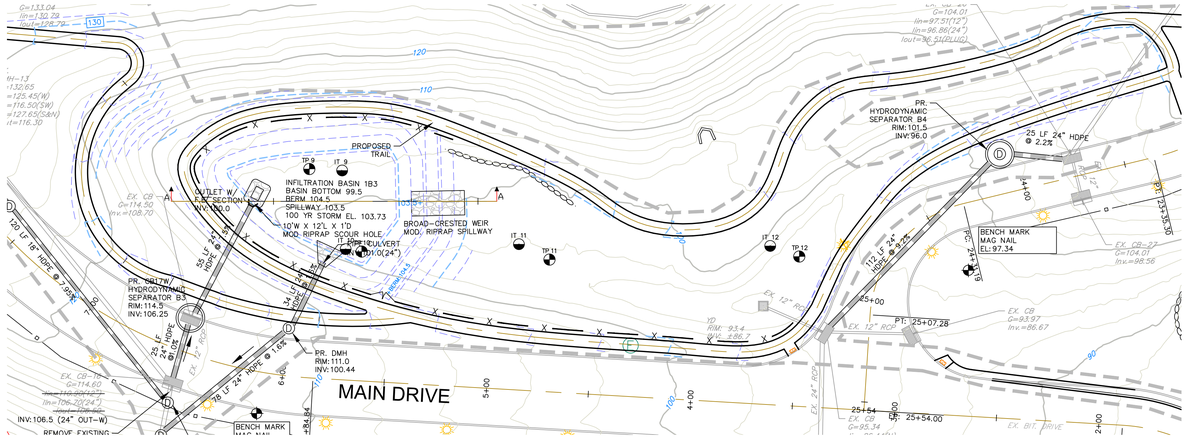
WOODBURY (203) 266 - 0778 CONNECTICUT

STATE OF CONNECTICUT CHRIS C. JOHNSON No. 18308 LICENSED PROFESSIONAL ENGINEER

DRAWN: BB APPROVED: CJ
SCALE: 1" = 30'
DATE: 03 OCT 23
PROJ. NO.: 4084
CADD FILE NAME: 4084
DRAWING NO.: C - 2.4

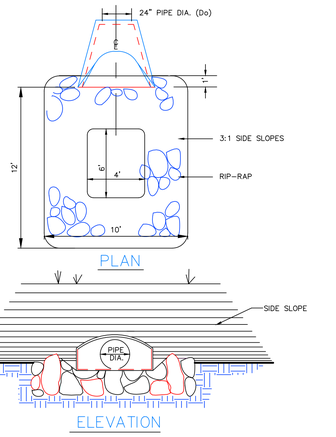
LEGEND

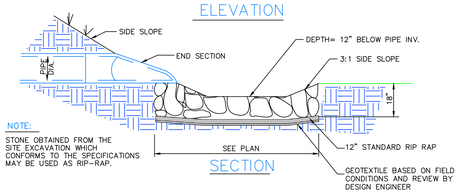
- PROPERTY LINE
- BUILD-TO LINE
- PROPOSED CONTOUR
- +8.3 PROPOSED FINISHED SPOT ELEVATION
- +10.4 EXISTING SPOT ELEVATION
- CONCRETE SIDEWALK/PAVER AREA
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- PROPOSED STORM DRAINAGE MANHOLE
- PROPOSED STORM SEWER
- PROPOSED FOOTING DRAIN
- LIMITS OF CONSTRUCTION ACTIVITY
- TP 9 DEEP TEST PIT LOCATION
- IT 2 INFILTRATION TEST LOCATION



INFILTRATION BASIN B3 PLAN VIEW

SCALE: 1"=30'

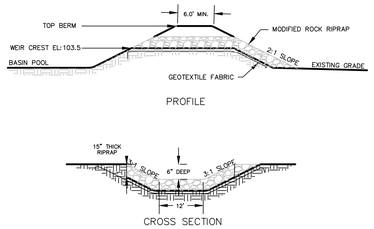




NOTE:
STONE OBTAINED FROM THE SITE EXCAVATION WHICH CONFORMS TO THE SPECIFICATIONS MAY BE USED AS RIP-RAP.

PREFORMED SCOUR HOLE

(Concrete End Section)



EMERGENCY SPILLWAY FOR STORMWATER BASINS

N.T.S

CONSTRUCTION OF INFILTRATION BASIN EXTERIOR BERMS

MATERIALS

1. Fill material shall be free of frozen material, sod, brush, roots, stumps and other organic material. Earth embankments shall contain no stones over six inches in diameter. The material used in the core portion of the embankment shall be the most impervious material obtained from the borrow areas, as required. The more pervious materials shall be used in the outer fill portion of the embankment as shown on the plans.

2. The impervious core fill material shall be glacial till, to be provided in sufficient quantities to complete the work. Fill to be approved by the Engineer prior to placement. Glacial till to consist of hard and durable particles or fragments and shall be free from organic matter and other objectionable materials. Glacial till shall conform to the following gradation requirements.

U. S. Standard Sieve Size	Percentage Passing By Weight
3 inch	100
No. 4	60– 95
No. 10	50– 95
No. 40	30– 95
No. 100	20– 65
No. 200	10– 40

PLACEMENT OF FILL

1. No fill shall be placed until the foundation preparation and excavations in the foundation have been completed and approved by the Engineer. No fill shall be placed on a frozen surface nor shall frozen material be incorporated.

2. Embankment material shall be placed in horizontal layers in 12 inch loose lifts. During construction, the surface of the fill shall be sloped to drain. Each layer or lift shall extend over the entire area of the fill.

3. The fill shall be free from lenses, pockets, streaks, or layers of material differing substantially in texture or gradation from the surrounding material. The more pervious material shall be placed in the outside portion of the berm or as indicated on the drawings. The finished fill shall be shaped and graded to the lines and grade shown on the drawings.

4. Pipe backfill shall be placed in horizontal layers not to exceed 6– 8 inch loose lifts and shall be brought up uniformly around the outlet pipe and flared end section.

MOISTURE CONTROL

1. The moisture content of materials in the berm shall be controlled to meet the requirements of Section E "Compaction of Berm". When necessary, moisture shall be added by the use of approved sprinkling equipment. Water shall be added uniformly and each layer shall be thoroughly disked or harrowed t provide proper mixing. Any layer found too wet for compaction shall be allowed to dry before rolling. Placing or rolling of materials on earth fills will not be permitted during or immediately after rainfalls which increase the moisture content beyond the limit of satisfactory compaction. The earth fill shall be brought up uniformly and its top shall be kept graded and sloped so that a minimum of rain water will be retained thereon. Compacted earth fill damaged by runoff shall be replaced immediately by the contractor.

Compaction

1. Berm material shall be compacted to 95% of the standard proctor density at or near optimum moisture content and by the compaction equipment specified herein. The compaction equipment shall traverse the entire surface of each layer of fill material.

2. Approved tamping rollers shall be used for compacting all parts of the berm. The contractor shall demonstrate the effectiveness of the roller by actual soil compaction test results of the soil to be used in the berm with laboratory work performed by an approved soil testing laboratory. Compaction tests shall include modified proctor and nuclear density tests made at the Engineer's discretion. A minimum of three proctor tests shall be performed and density tests shall be performed every 1500 square feet.

3. Pipe backfill shall be compacted by hand tamping with mechanical tampers. Heavy equipment shall not be operated within three feet of any structure. Equipment shall not be allowed to operate over the outlet culverts until there is at least two feet of cover over the pipes.

FINISHING EMBANKMENTS

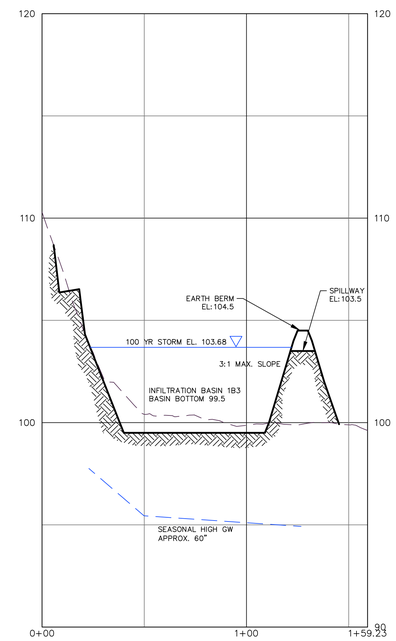
1. The berm shall be constructed to the elevations, lines and grades and cross sections as shown on the plans. The berm shall be maintained in a manner satisfactory to the Engineer and the Town and surfaces shall be compact and and accurately graded before topsoil is placed on them.

MISCELLANEOUS CONDITIONS

1. Clearing limits for the berm area shall be as staked in the field by a licensed surveyor.

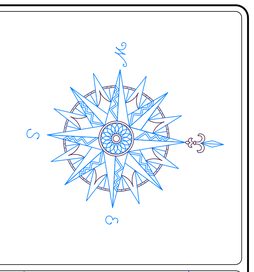
2. Test pits can be ordered by the Engineer or the Town at any time during construction to locate or confirm the elevation and condition of existing soils or the content of the embankment fill. This work shall be done at no additional cost to the Owner.

3. If apparent changes occur in the fill material, additional sieve analyses can be ordered by the Engineer at no additional cost to the Owner.



INFILTRATION BASIN 1B3 SECTION A–A

SCALE: 1"=30' HOR.
1"= 3' VER.



NO.	REVISION	DATE
1	REVISED PER ENGINEERING REVIEW	14 MAY 24

Previous Editions Obsolete

30 0 15 30 60
1 inch = 30 feet

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SUITE 200
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INFILTRATION
BASIN SECTION & DETAILS

800 LONG RIDGE ROAD

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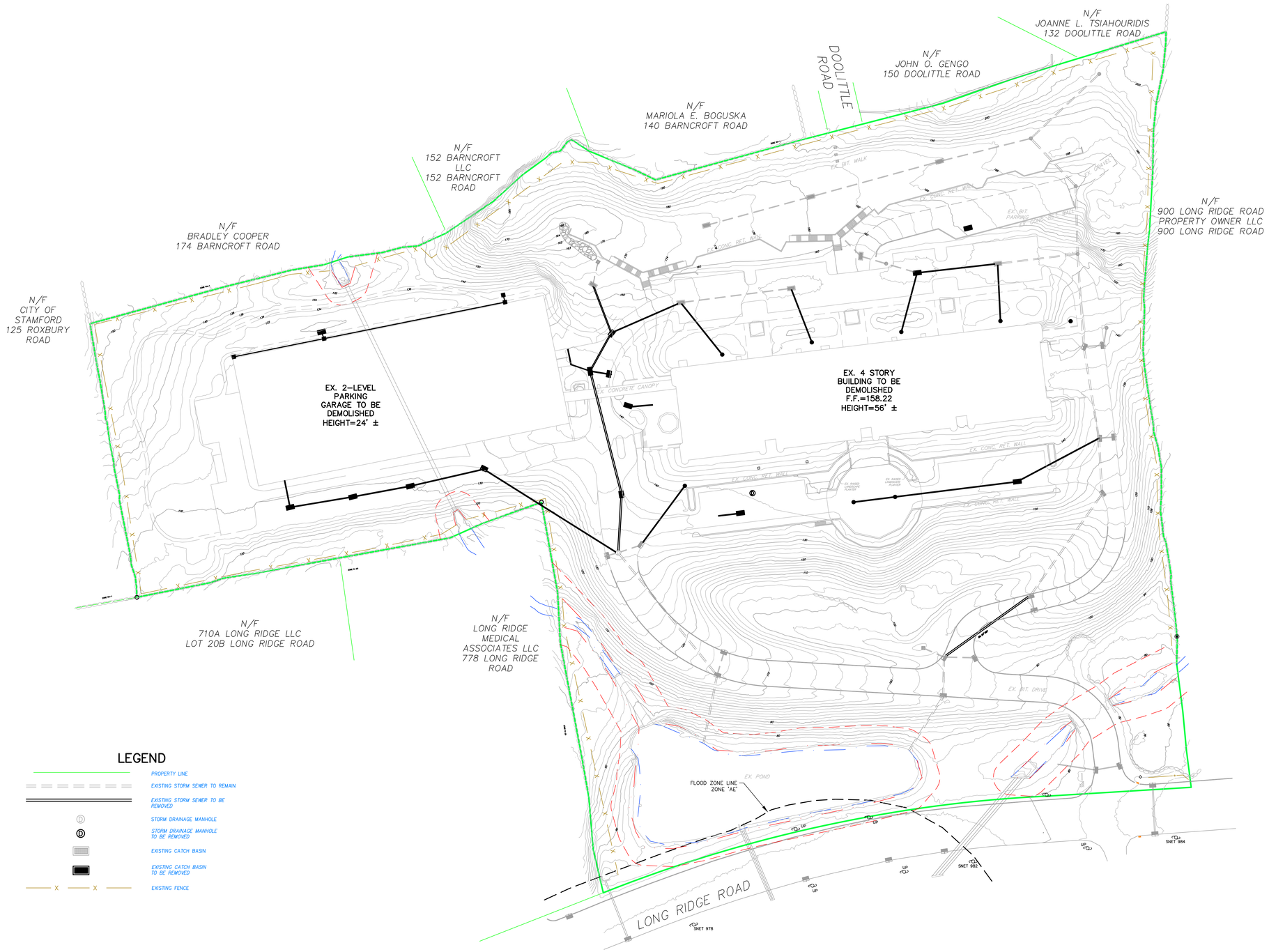
WOODBURY (203) 266-0778 CONNECTICUT

STATE OF CONNECTICUT CURTIS C. JOHNSON No. 18288 LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 30'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 2.5	



LEGEND

- PROPERTY LINE
- EXISTING STORM SEWER TO REMAIN
- EXISTING STORM SEWER TO BE REMOVED
- STORM DRAINAGE MANHOLE
- STORM DRAINAGE MANHOLE TO BE REMOVED
- EXISTING CATCH BASIN
- EXISTING CATCH BASIN TO BE REMOVED
- EXISTING FENCE

NO.	REVISION	DATE
1	REVISED PER ENGINEERING REVIEW	14 MAY 24

Previous Editions Obsolete

60 0 30 60 120

1 inch = 60 feet

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STORM DRAINAGE DEMO PLAN

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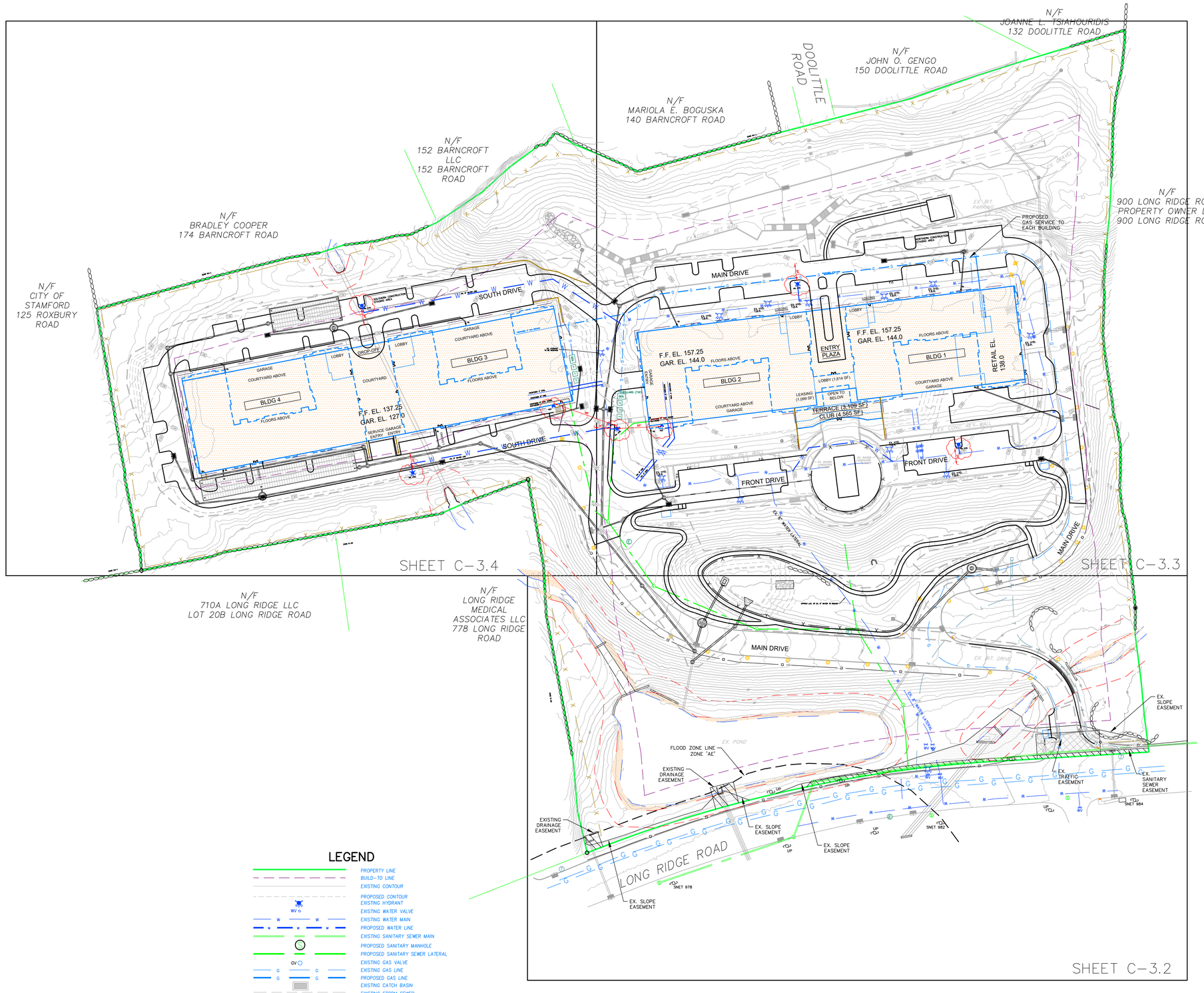
STATE OF CONNECTICUT CURTIS C. JONES No. 18208 LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 60'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 2.6	



LEGEND

- PROPERTY LINE
- BUILD-TO LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER MAIN
- PROPOSED WATER LINE
- EXISTING SANITARY SEWER MAIN
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY SEWER LATERAL
- EXISTING GAS VALVE
- EXISTING GAS LINE
- PROPOSED GAS LINE
- EXISTING CATCH BASIN
- EXISTING STORM SEWER
- PROPOSED CATCH BASIN
- PROPOSED STORM DRAINAGE MANHOLE
- PROPOSED STORM SEWER
- EXISTING SITE LIGHT
- EXISTING SITE LIGHT TO BE REMOVED

NO.	REVISION	DATE
1	REVISED PER ARCHITECT & CLIENT	03 JAN 24
2	REVISED PER CLIENT	22 JAN 24
3	REVISED PER ENGINEERING REVIEW	14 MAY 24
4	REVISED PER CLIENT & STAFF	28 MAY 24
5	REVISED PER FIRE MARSHAL	31 MAY 24

Previous Editions Obsolete

60 0 30 60 120

1 inch = 60 feet

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OVERALL UTILITY PLAN

800 LONG RIDGE ROAD

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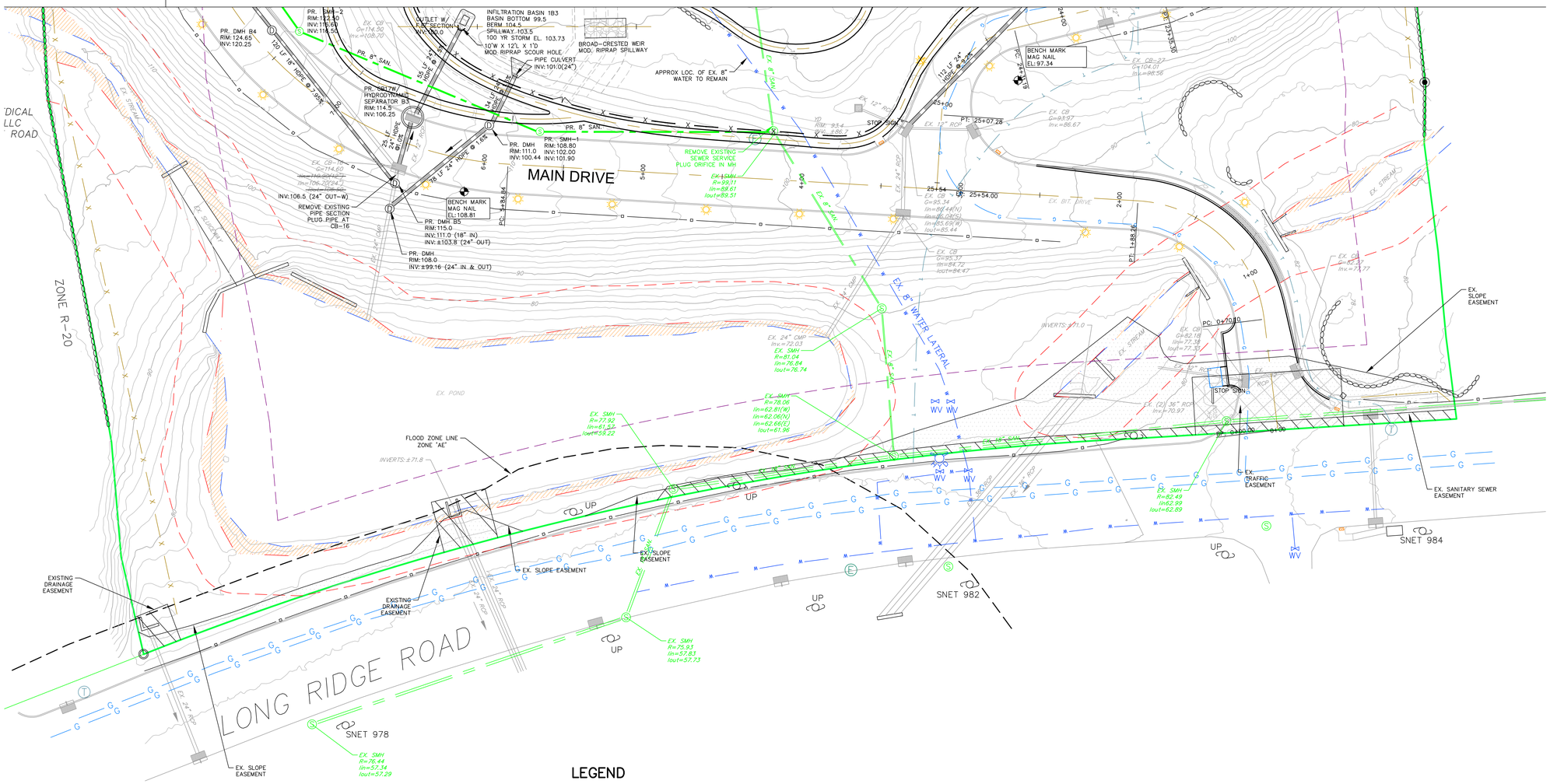
STATE OF CONNECTICUT CLAYTON C. JOHNSON No. 18198 LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 60'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 3.1	

MATCH LINE SHEET C-3.4

MATCH LINE SHEET C-3.3



LEGEND

- PROPERTY LINE
- BUILD-TO LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER MAIN
- PROPOSED WATER LINE
- EXISTING SANITARY SEWER MAIN
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY SEWER LATERAL
- EXISTING GAS VALVE
- EXISTING GAS LINE
- PROPOSED GAS LINE
- EXISTING CATCH BASIN
- EXISTING STORM SEWER
- PROPOSED CATCH BASIN
- PROPOSED STORM DRAINAGE MANHOLE
- PROPOSED STORM SEWER
- EXISTING SITE LIGHT
- EXISTING SITE LIGHT TO BE REMOVED

NO.	REVISION	DATE
1	REVISED PER ARCHITECT & CLIENT	03 JAN 24
2	REVISED PER ENGINEERING REVIEW	14 MAY 24

Previous Editions Obsolete

30 0 15 30 60

1 inch = 30 feet

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UTILITY PLAN

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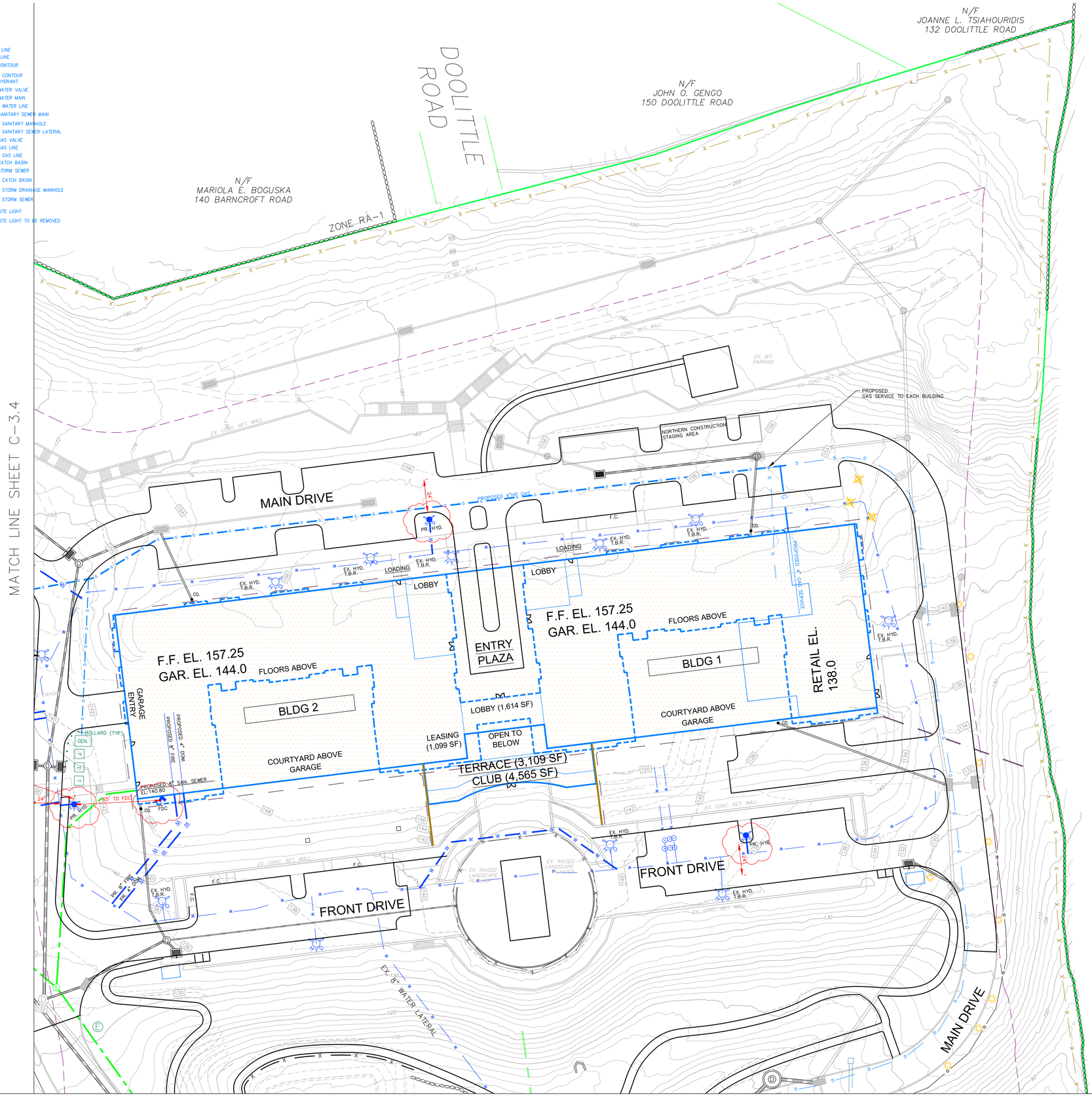
STATE OF CONNECTICUT
CURTIS C. JOHNSON
No. 18208
LICENSED
PROFESSIONAL ENGINEER

DRAWN: BB APPROVED: CJ
SCALE: 1" = 30'
DATE: 03 OCT 23
PROJ. NO.: 4084
CADD FILE NAME: 4084
DRAWING NO.:
C - 3.2

LEGEND

- PROPERTY LINE
- BUILD-TO LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER MAIN
- PROPOSED WATER LINE
- EXISTING SANITARY SEWER MAIN
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY SEWER LATERAL
- EXISTING GAS VALVE
- EXISTING GAS LINE
- PROPOSED GAS LINE
- EXISTING CATCH BASIN
- EXISTING STORM SEWER
- PROPOSED CATCH BASIN
- PROPOSED STORM DRAINAGE MANHOLE
- PROPOSED STORM SEWER
- EXISTING SITE LIGHT
- EXISTING SITE LIGHT TO BE REMOVED



NO.	REVISION	DATE
1	REVISED PER ARCHITECT & CLIENT	03 JAN 24
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3	REVISED PER ENGINEERING REVIEW	14 MAY 24
4	REVISED PER CLIENT & STAFF	28 MAY 24
5	REVISED PER FIRE MARSHAL	31 MAY 24

Previous Editions Obsolete

30 0 15 30 60

1 inch = 30 feet

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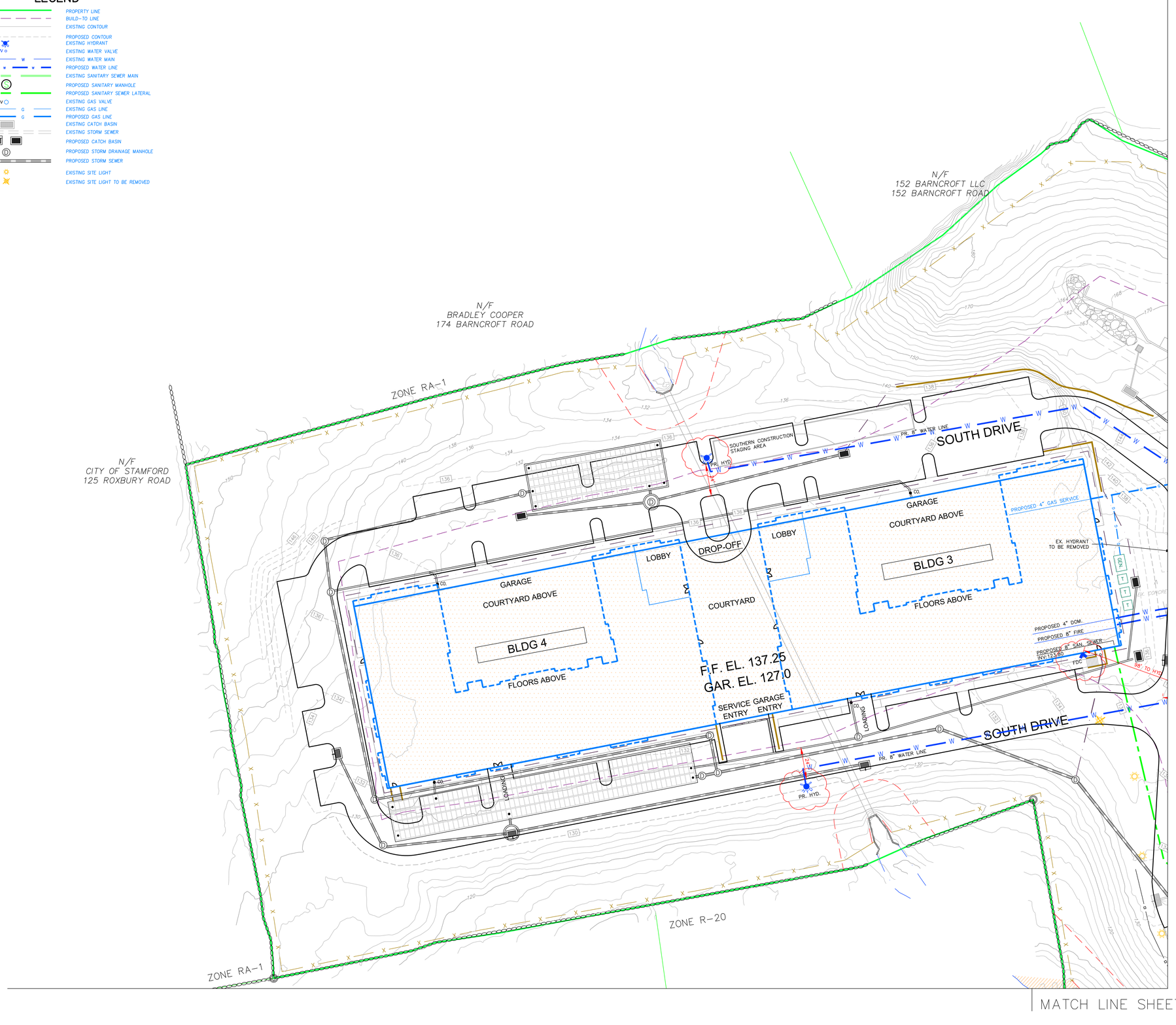
STATE OF CONNECTICUT CURTIS C. JOHN LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 30'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 3.3	

LEGEND

- PROPERTY LINE
- BUILD-TO LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER MAIN
- PROPOSED WATER LINE
- EXISTING SANITARY SEWER MAIN
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY SEWER LATERAL
- EXISTING GAS VALVE
- EXISTING GAS LINE
- PROPOSED GAS LINE
- EXISTING CATCH BASIN
- EXISTING STORM SEWER
- PROPOSED CATCH BASIN
- PROPOSED STORM DRAINAGE MANHOLE
- PROPOSED STORM SEWER
- EXISTING SITE LIGHT
- EXISTING SITE LIGHT TO BE REMOVED



NO.	REVISION	DATE
1	REVISED PER ARCHITECT & CLIENT	03 JAN 24
2	REVISED PER CLIENT	22 JAN 24
3	REVISED PER ENGINEERING REVIEW	14 MAY 24
4	REVISED PER CLIENT & STAFF	28 MAY 24
5	REVISED PER FIRE MARSHAL	31 MAY 24

Previous Editions Obsolete

30 0 15 30 60

1 inch = 30 feet

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UTILITY PLAN

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

CIVIL 1

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STATE OF CONNECTICUT · CHRIS C. JOHNSON · No. 18598 · LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 30'	
DATE: 03 OCT 23	
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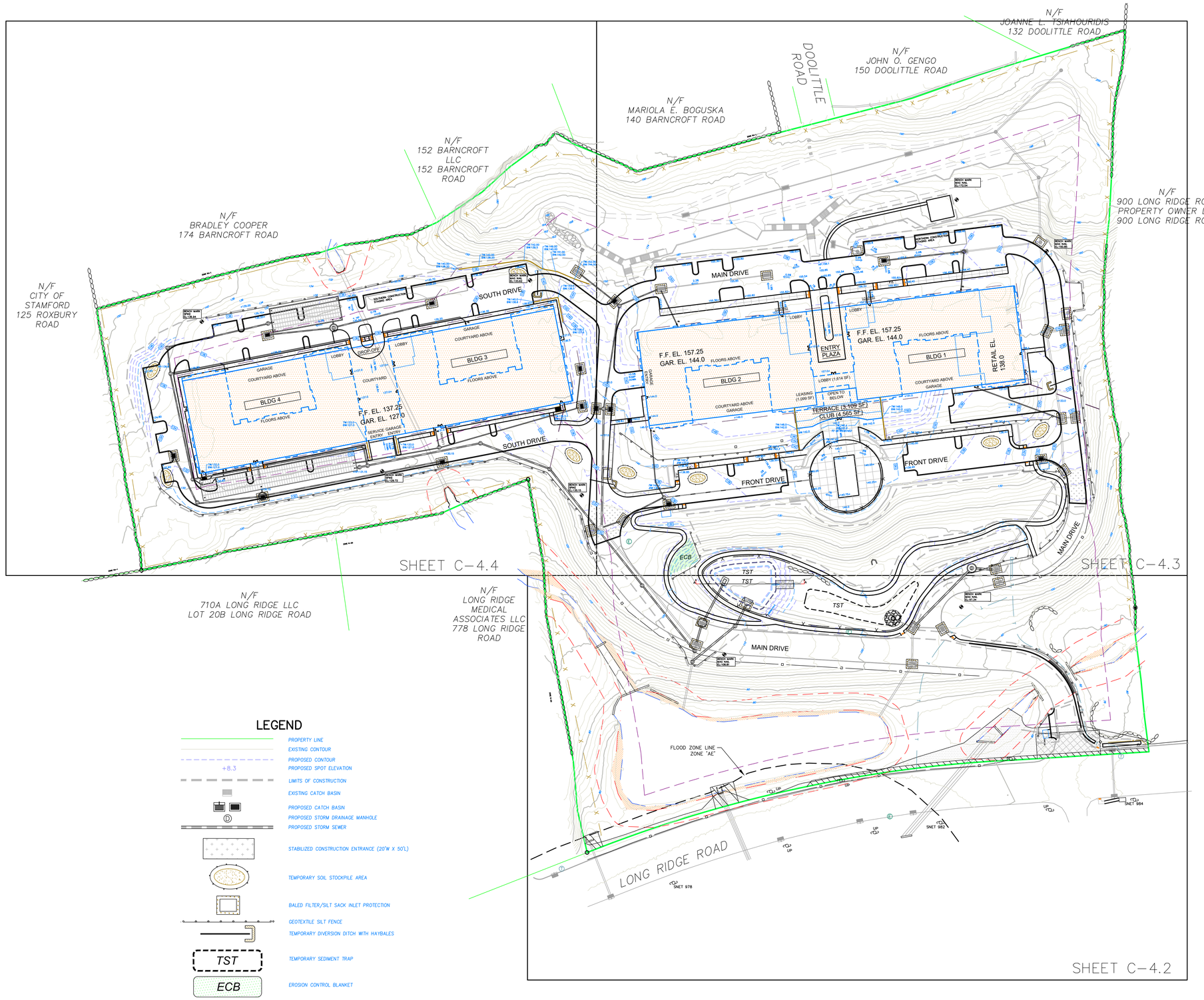

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- +8.3 PROPOSED SPOT ELEVATION
- LIMITS OF CONSTRUCTION
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- PROPOSED STORM DRAINAGE MANHOLE
- PROPOSED STORM SEWER
- STABILIZED CONSTRUCTION ENTRANCE (20'W X 50'L)
- TEMPORARY SOIL STOCKPILE AREA
- BALED FILTER/SILT SACK INLET PROTECTION
- GEOTEXTILE SILT FENCE
- TEMPORARY DIVERSION DITCH WITH HAYBALES
- TST TEMPORARY SEDIMENT TRAP
- ECB EROSION CONTROL BLANKET

NO.	REVISION	DATE
1	REVISED PER ARCHITECT & CLIENT	03 JAN 24
2	REVISED PER CLIENT	22 JAN 24
3	REVISED PER ENGINEERING REVIEW	14 MAY 24
4	REVISED PER CLIENT & STAFF	28 MAY 24

Previous Editions Obsolete

60 0 30 60 120
1 inch = 60 feet

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OVERALL EROSION CONTROL PLAN

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

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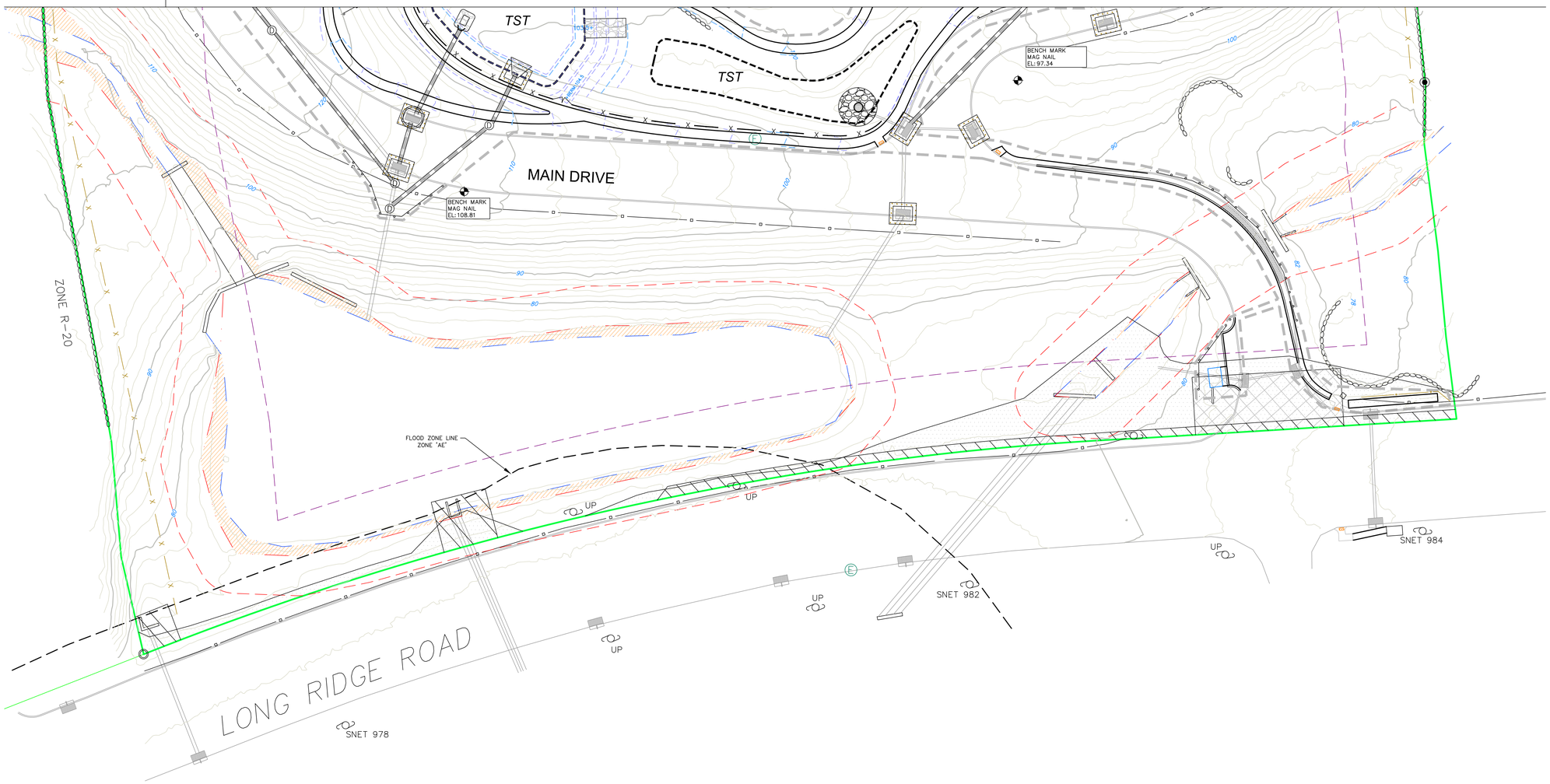
STATE OF CONNECTICUT CLAYTON C. JOHNSON No. 18798 LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 60'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 4.1	

MATCH LINE SHEET C-4.4

MATCH LINE SHEET C-4.3



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- +8.3 PROPOSED SPOT ELEVATION
- LIMITS OF CONSTRUCTION
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- PROPOSED STORM DRAINAGE MANHOLE
- PROPOSED STORM SEWER
- STABILIZED CONSTRUCTION ENTRANCE (20'W X 5
- TEMPORARY SOIL STOCKPILE AREA
- BALED FILTER/SILT SACK INLET PROTECTION
- GEOTEXTILE SILT FENCE
- TEMPORARY DIVERSION DITCH WITH HAYBALES
- TST TEMPORARY SEDIMENT TRAP
- ECB EROSION CONTROL BLANKET

NO.	REVISION	DATE
1	REVISED PER ARCHITECT & CLIENT	03 JAN 24
2	REVISED PER ENGINEERING REVIEW	14 MAY 24

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30 0 15 30 60

1 inch = 30 feet

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EROSION CONTROL PLAN

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

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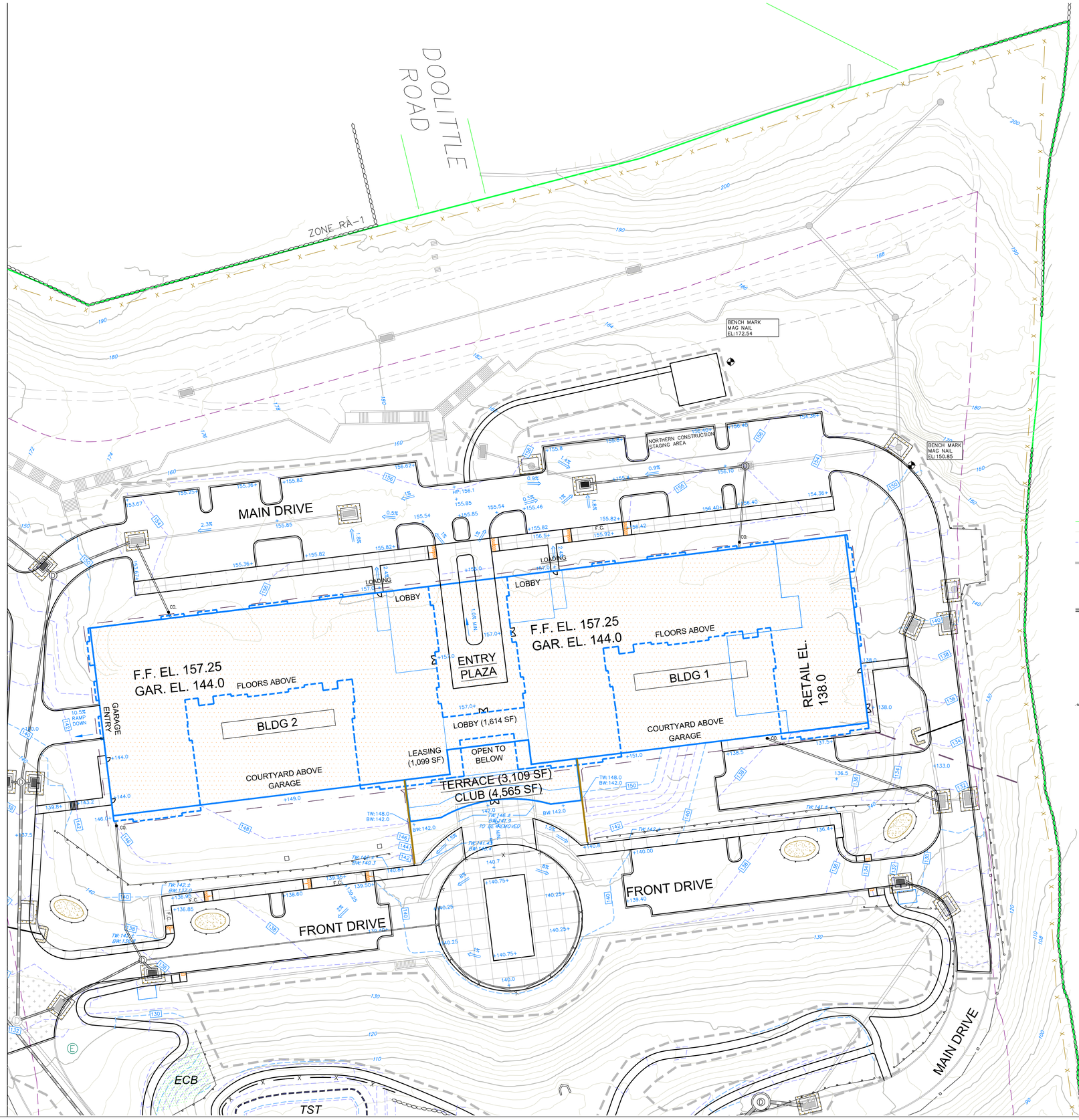
(203) 266 - 0778

WOODBURY CONNECTICUT

STATE OF CONNECTICUT
CURTIS C. JOHNSON
No. 22008
LICENSED
PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 30'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 4.2	

MATCH LINE SHEET C-4.4



MATCH LINE SHEET C-4.2

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- +8.3 PROPOSED SPOT ELEVATION
- LIMITS OF CONSTRUCTION
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- PROPOSED STORM DRAINAGE MANHOLE
- PROPOSED STORM SEWER
- STABILIZED CONSTRUCTION ENTRANCE (20'W X 50'L)
- TEMPORARY SOIL STOCKPILE AREA
- BALED FILTER/SILT SACK INLET PROTECTION
- GEOTEXTILE SILT FENCE
- TEMPORARY DIVERSION DITCH WITH HAYBALES
- TST TEMPORARY SEDIMENT TRAP
- ECB EROSION CONTROL BLANKET

NO.	REVISION	DATE
1	REVISED PER ARCHITECT & CLIENT	03 JAN 24
2	REVISED PER CLIENT	22 JAN 24
3	REVISED PER ENGINEERING REVIEW	14 MAY 24
4	REVISED PER CLIENT & STAFF	28 MAY 24

Previous Editions Obsolete

30 0 15 30 60
1 inch = 30 feet

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EROSION CONTROL PLAN

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

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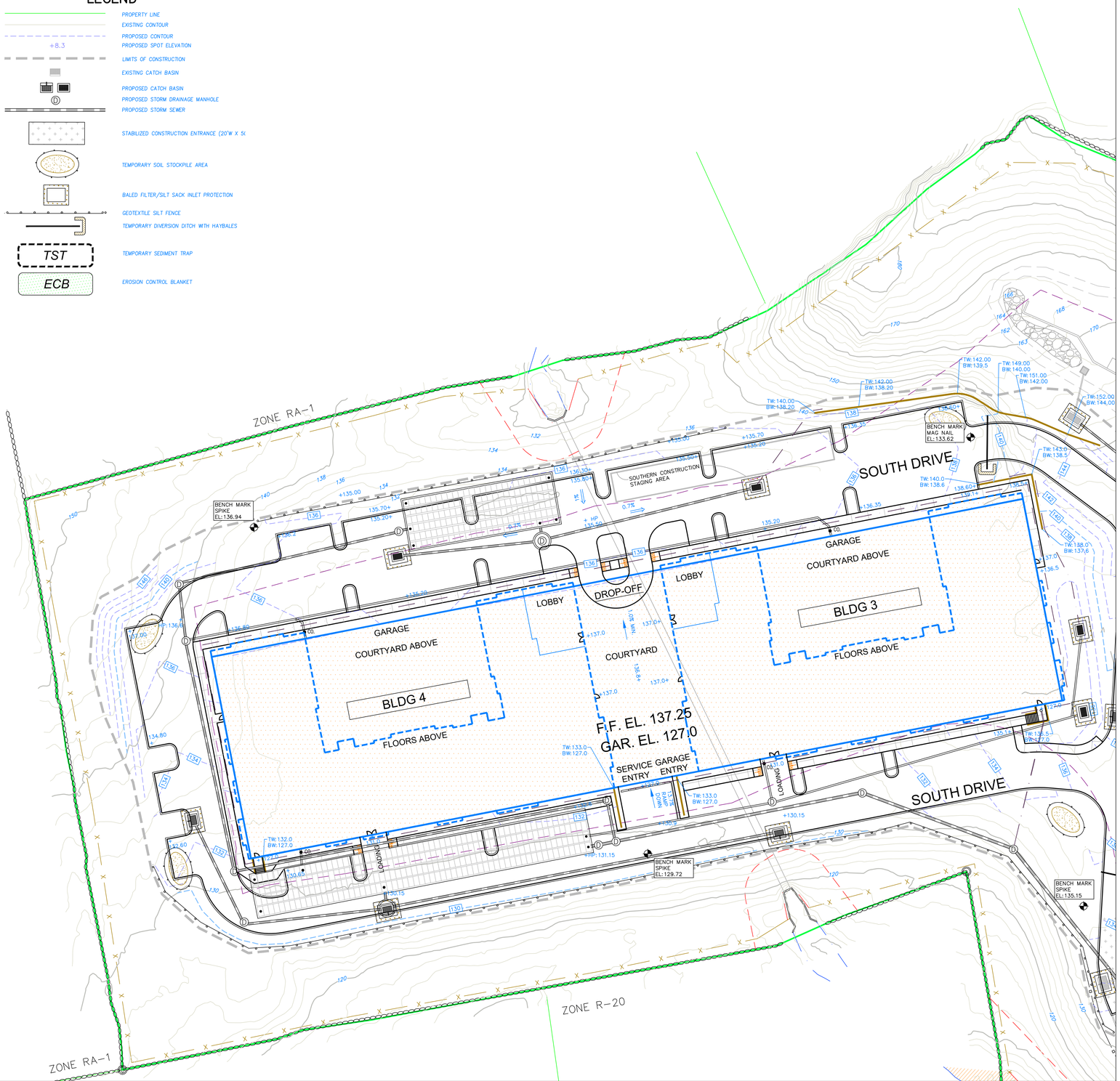
STATE OF CONNECTICUT · CURTIS C. JOHNSON · No. 12006 · LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 30'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 4.3	

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- +8.3 — PROPOSED SPOT ELEVATION
- LIMITS OF CONSTRUCTION
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- PROPOSED STORM DRAINAGE MANHOLE
- PROPOSED STORM SEWER
- STABILIZED CONSTRUCTION ENTRANCE (20'W X 50
- TEMPORARY SOIL STOCKPILE AREA
- BALED FILTER/SILT SACK INLET PROTECTION
- GEOTEXTILE SILT FENCE
- TEMPORARY DIVERSION DITCH WITH HAYBALES
- TST — TEMPORARY SEDIMENT TRAP
- ECB — EROSION CONTROL BLANKET



NO.	REVISION	DATE
1	REVISED PER ARCHITECT & CLIENT	03 JAN 24
2	REVISED PER CLIENT	22 JAN 24
3	REVISED PER ENGINEERING REVIEW	14 MAY 24
4	REVISED PER CLIENT & STAFF	28 MAY 24

Previous Editions Obsolete

30 0 15 30 60

1 inch = 30 feet

800 LONG RIDGE ROAD, LLC
100 WASHINGTON BLVD.
SUITE 200
STAMFORD, CT 06902

EROSION CONTROL PLAN

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

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STATE OF CONNECTICUT CURTIS C. JOHNSON No. 12008 LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: 1" = 30'	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
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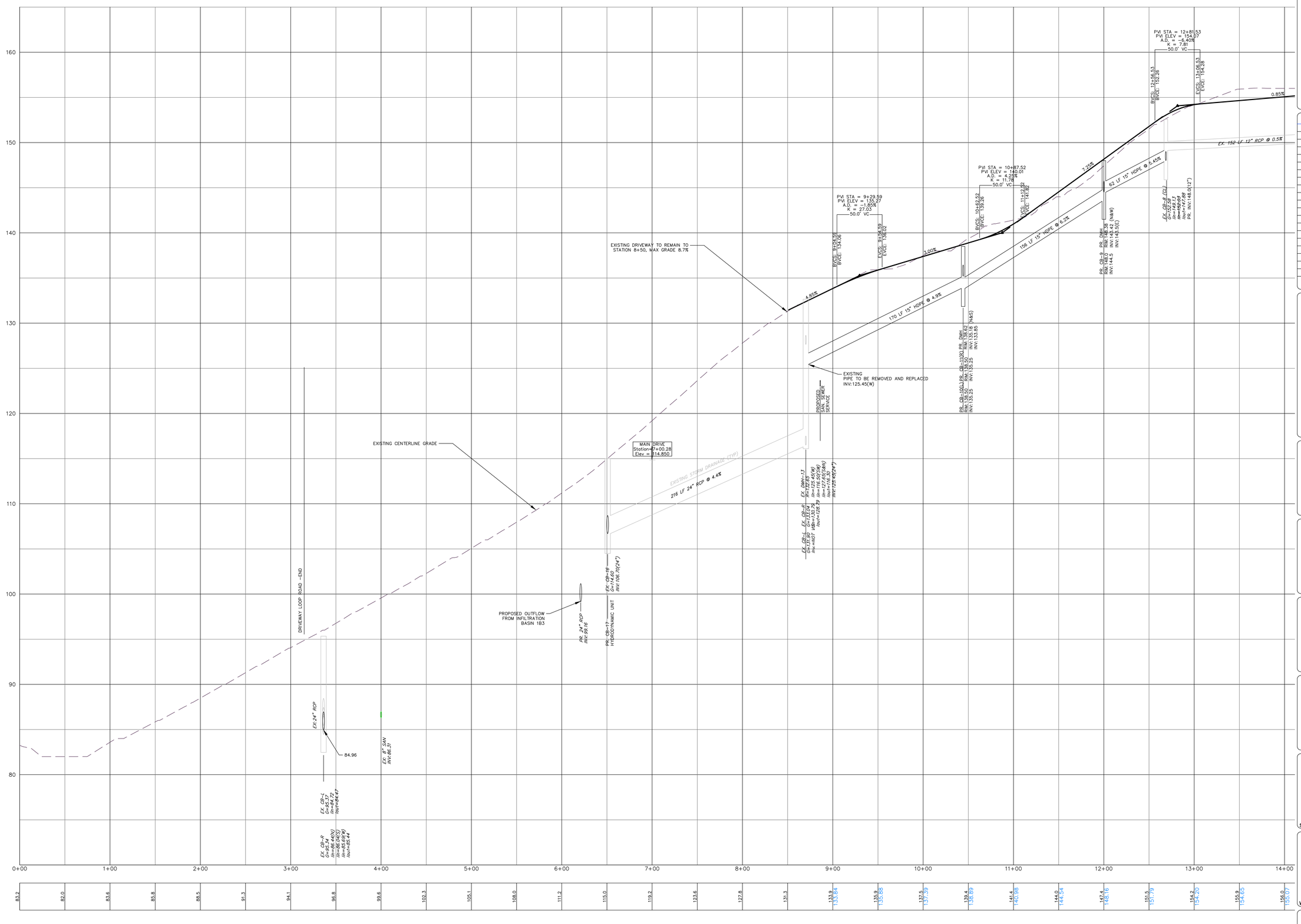

MAIN DRIVE

NO.	REVISION	DATE
1	REVISED PER ENGINEERING REVIEW	14 MAY 24

Previous Editions Obsolete

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100 WASHINGTON BLVD.
SUITE 200
STAMFORD, CT 06902

DRIVEWAY & DRAINAGE PROFILES

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

CIVIL C1
CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY (203) 266 - 0778 CONNECTICUT

STATE OF CONNECTICUT
CHRIS C. JOHNSON
No. 28208
LICENSED
PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE:	1" = 40' HOR. 1" = 4' VER
DATE:	03 OCT 23
PROJ. NO.:	4084
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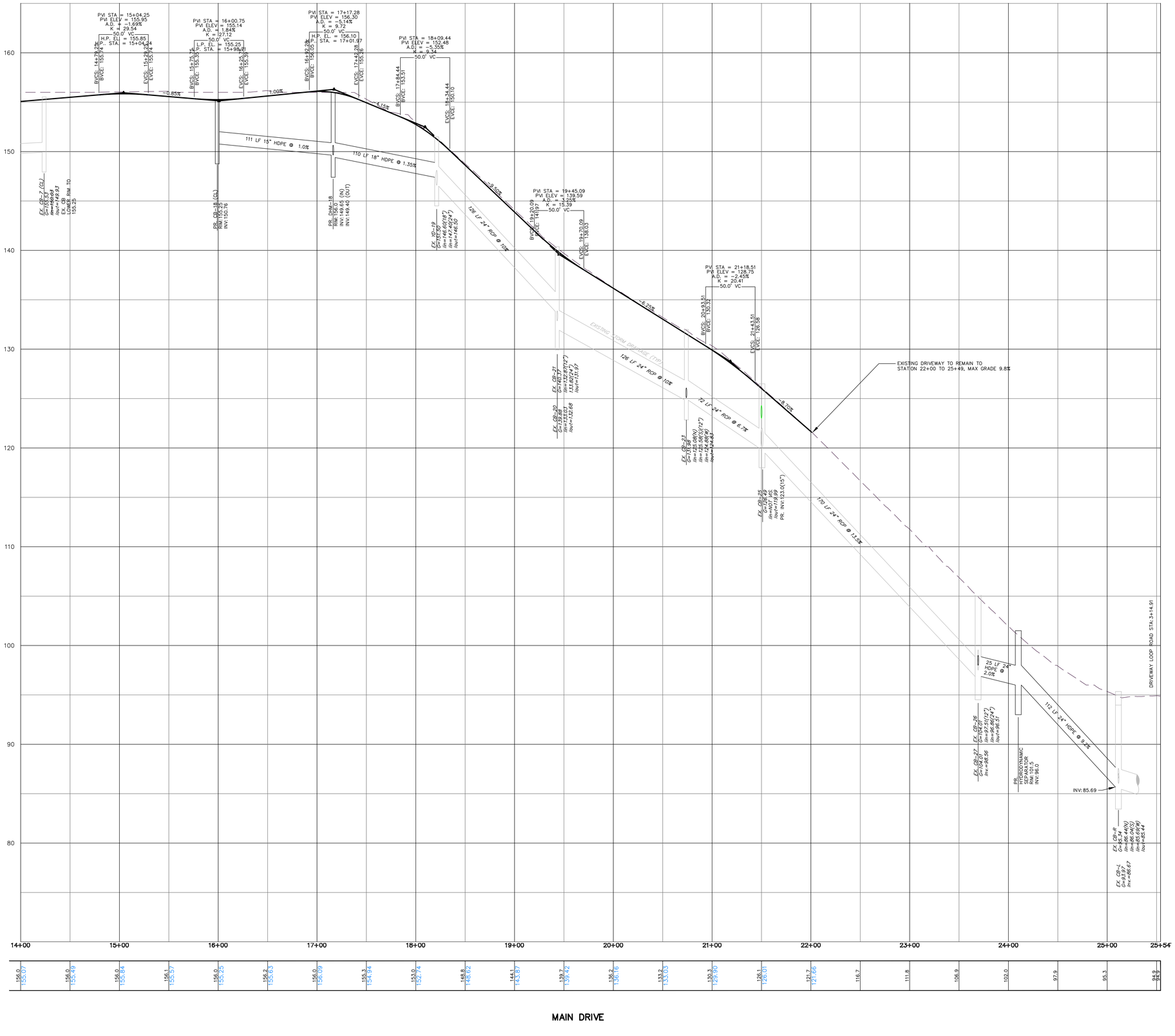

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DRIVEWAY & DRAINAGE PROFILES

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CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY (203) 266 - 0778 CONNECTICUT

STATE OF CONNECTICUT
CHRIS C. JOHNSON
No. 28008
LICENSED
PROFESSIONAL ENGINEER

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DATE:	03 OCT 23
PROJ. NO.:	4084
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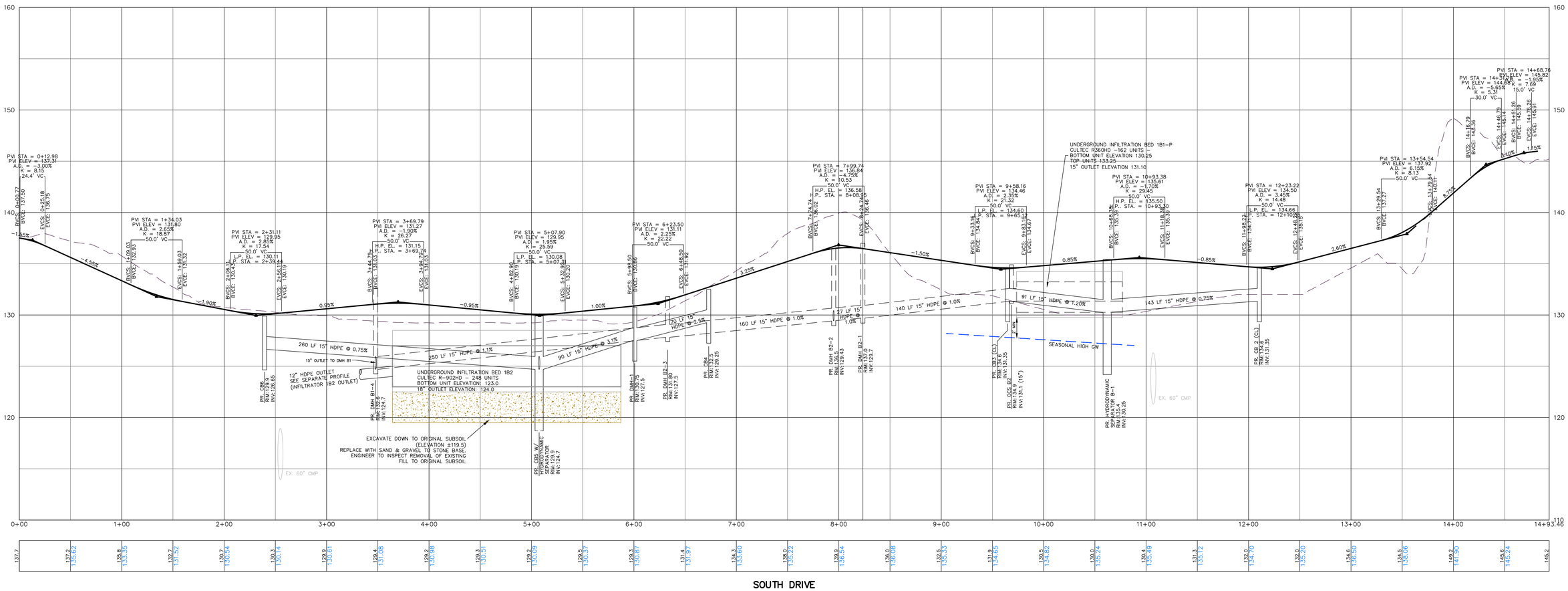

SOUTH DRIVE

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DRIVEWAY & DRAINAGE PROFILES

STATE OF CONNECTICUT
CURTIS C. JOHNSON
No. 20808
LICENSED
PROFESSIONAL ENGINEER

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SCALE:	1" = 40' HOR. 1" = 4' VER
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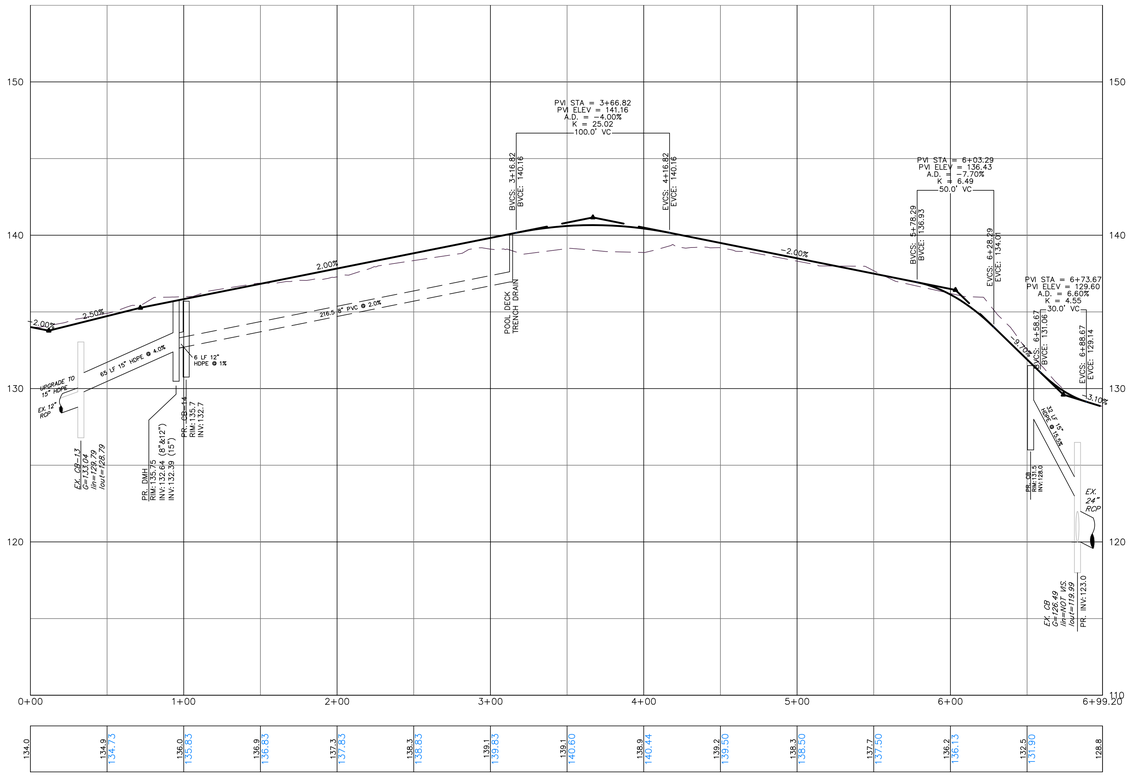
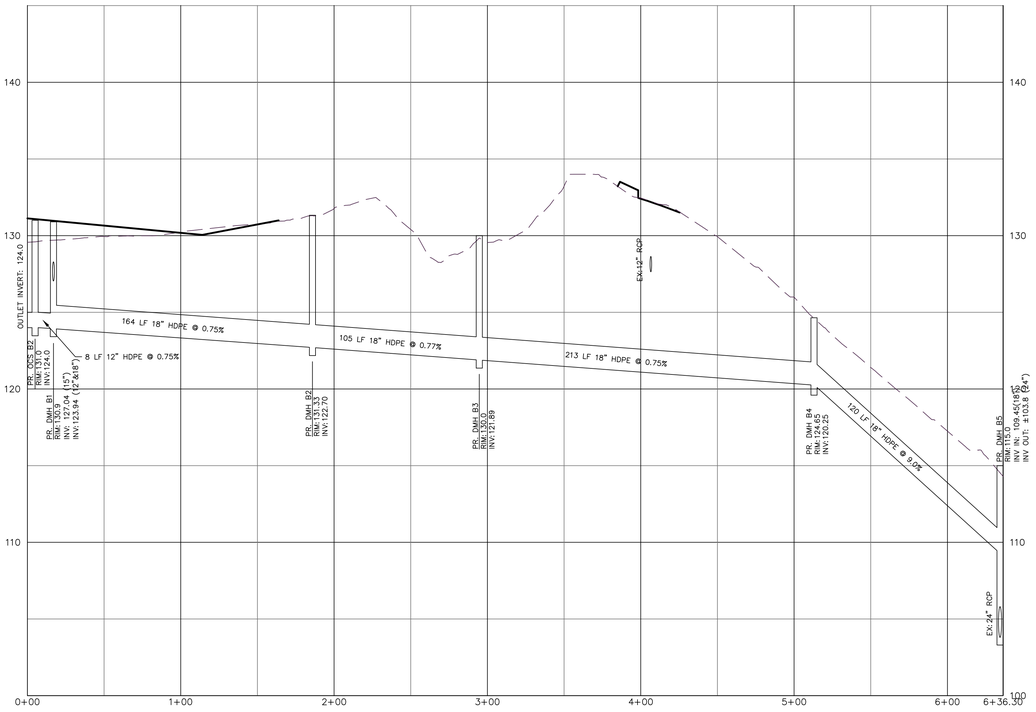


FRONT DRIVE



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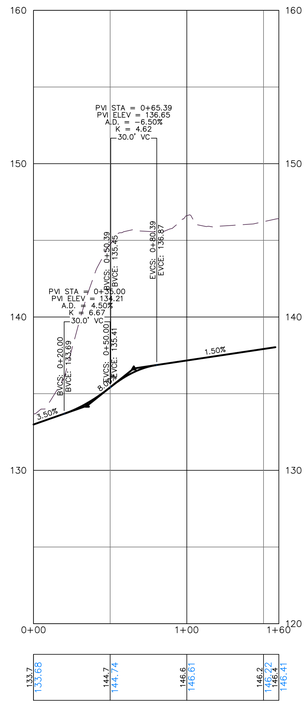

RETAIL DRIVE

NO.	REVISION	DATE
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STAMFORD CONNECTICUT

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DRIVEWAY & DRAINAGE PROFILES

CIVIL C1
CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY CONNECTICUT
(203) 266 - 0778

STATE OF CONNECTICUT
CURTIS C. JOHNSON
No. 12006
LICENSED
PROFESSIONAL ENGINEER

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SCALE:	1" = 40' HOR. 1" = 4' VER
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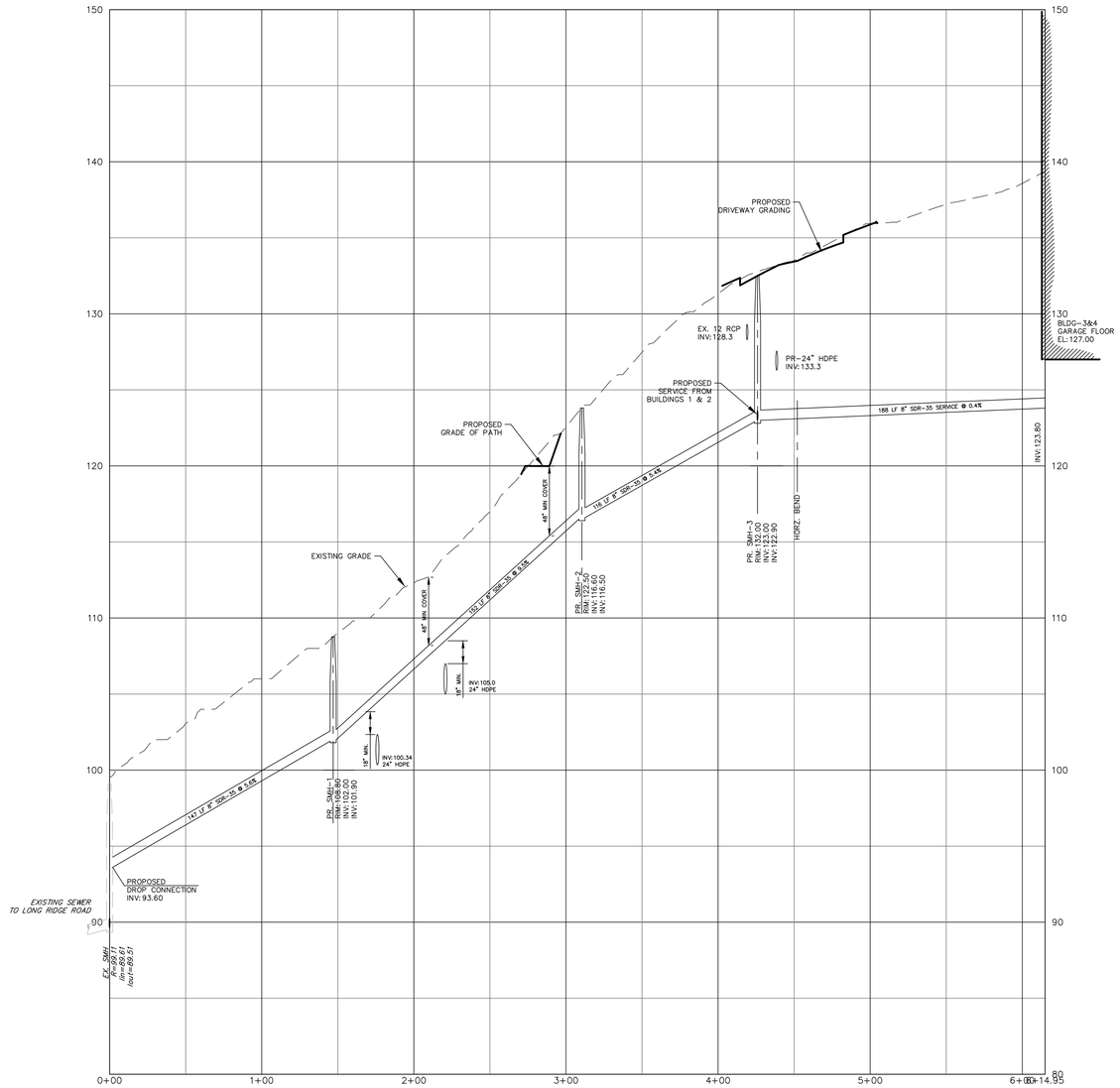

SANITARY SEWER PROFILE

NO.	REVISION	DATE
1	SHEET ADDED PER ENG. COMMENTS	2 MAR 24
2	REVISED PER ENGINEERING REVIEW	14 MAY 24

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SANITARY SEWER PROFILE

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CIVIL C1

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WOODBURY (203) 266 - 0778 CONNECTICUT

STATE OF CONNECTICUT
CURTIS C. JOHNSON
No. 18286
LICENSED
PROFESSIONAL ENGINEER

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SCALE:	1" = 40' HOR. 1" = 4' VER
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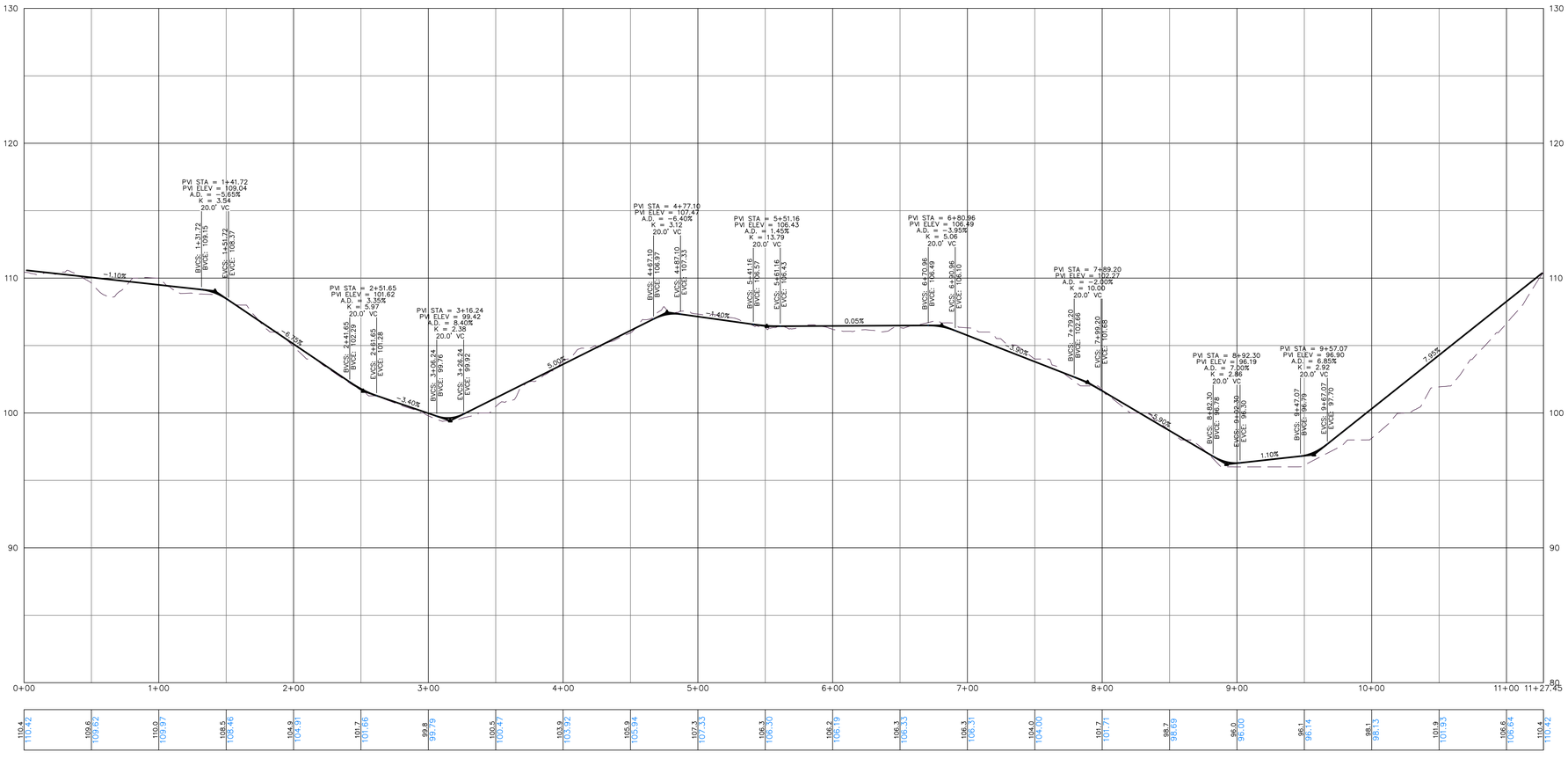
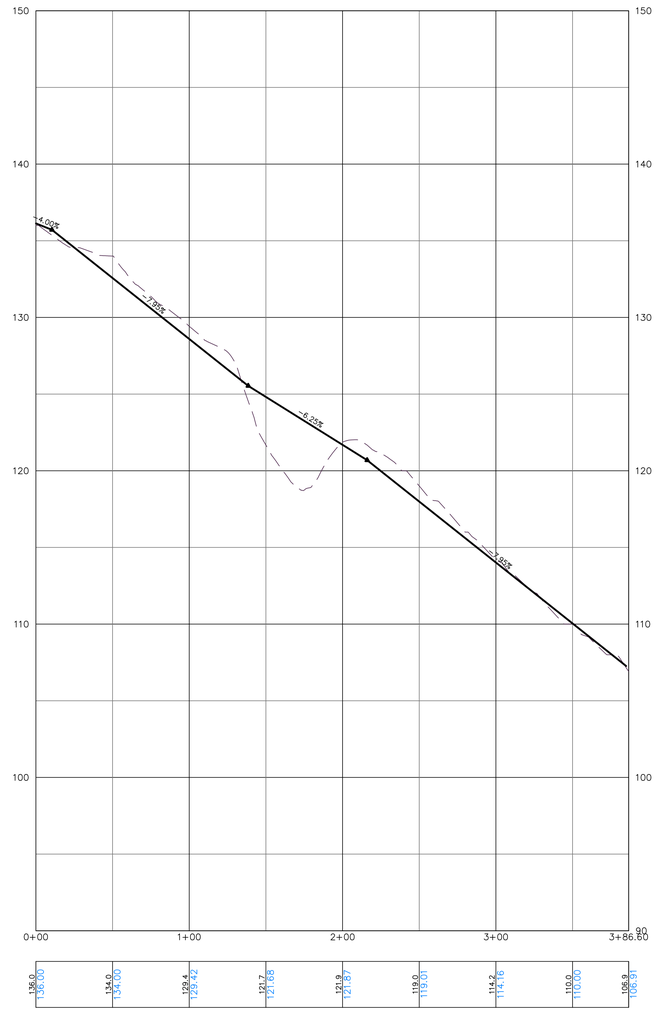


PR. LOOP TRAIL



PR. TRAIL FROM PARKING TO LOOP TRAIL

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WALKING TRAIL PROFILES

CIVIL 1
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43 SHERMAN HILL ROAD
WOODBURY (203) 266 - 0778 CONNECTICUT

STATE OF CONNECTICUT
CHRIS C. JOHNSON
No. 18208
LICENSED
PROFESSIONAL ENGINEER

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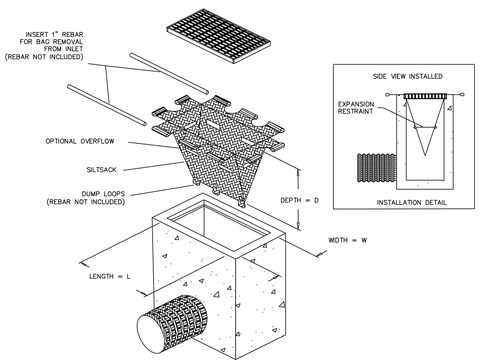
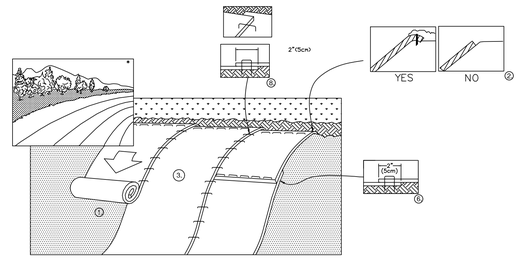


SILT SACK DETAIL

N.T.S.



INSTALLATION PROCEDURE

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
   NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. START UNROLLING THE FUTERRA F4 NETLESS 1-2' ABOVE THE SLOPE CREST.
3. ANCHOR TOP OF BLANKET ON 1' CENTERS
4. APPLY PINS OR STAPLES ALONG BLANKET LENGTH, ONE EVERY 2.5 LINEAR FEET. PLACE PIN OR STAPLE EVERY EVERY 5' DOWN CENTER OF BLANKET, CREATING AN X PATTERN WITH THE ANCHORING SYSTEM.
5. RAKE LOOSE SOIL OVER TOP EDGE ALONG BLANKET WIDTH; MOUND TO A MIN. HEIGHT OF 4".
6. OVERLAP SHINGLE STYLE A MAX. OF 2'. ANCHOR ON 1' CENTER ACROSS THE ROLL WIDTH.
7. UNROLL THE NEXT BLANKET DOWN THE SLOPE.
8. OVERLAP ROLLS A MAX. OF 2'. USE ONE PIN OR STAPLE EVERY 5'.

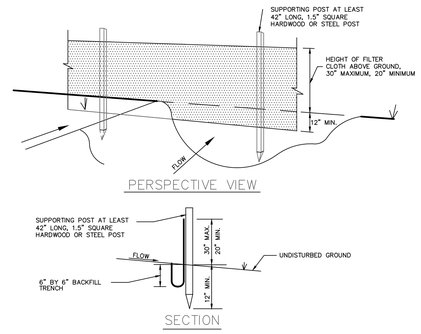
FUTERRA F4 NETLESS EROSION CONTROL BLANKETS
MATERIAL:
THERMALLY REFINED WOOD AND DEGRADABLE MAN-MADE FIBERS

CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE
1. HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
2. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENTHS IN EXCESS OF 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.
3. SLOPE CREST TRENCHING MAY BE SPECIFIED ON SOME PROJECTS. TOP EDGE WIDTH OF THE FUTERRA F4 NETLESS SHOULD THEN BE STAPLED OR STAKED IN THE TRENCH BOTTOM. BACKFILL AND COMPACT SOIL.IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
4. FUTERRA F4 NETLESS CAN BE APPLIED HORIZONTALLY ON SHALLOW SLOPES.*

FUTERRA F4 NETLESS EROSION CONTROL BLANKET

N.T.S.



CONSTRUCTION NOTES FOR SILT FENCE

1. EXCAVATE A TRENCH A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE ON THE UP SIDE OF THE FENCE LOCATION.

2. DRIVE SUPPORT POSTS ON THE DOWN SLOPE SIDE OF THE TRENCH TO A DEPTH OF AT LEAST 12 INCHES INTO ORIGINAL GROUND.

3. STAPLE OR SECURE THE GEOTEXTILE TO THE SUPPORT POSTS PER MANUFACTURER'S INSTRUCTIONS SUCH THAT AT LEAST 6 INCHES OF GEOTEXTILE LIES WITHIN THE TRENCH.

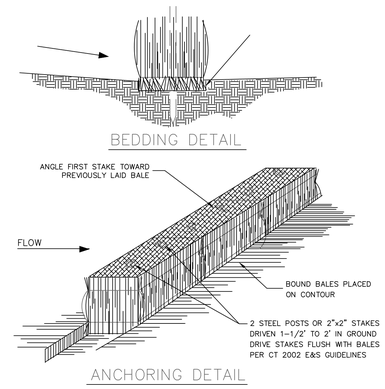
4. BACKFILL THE TRENCH WITH TAMPED SOIL OR AGGREGATE OVER THE GEOTEXTILE.

POSTS: 1.5" SQUARE HARDWOOD OR STEEL

FILTER CLOTH: MIRAFI 100X, ENVIROFENCE OR APPROVED EQUAL

SILT FENCE DETAIL

N.T.S.



NOTES:

1. BALES SHALL BE EITHER STRAW OR HAY.
2. BALES SHALL BE PLACED AT THE TOE OF SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
3. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
4. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
5. INSPECTION SHALL BE FREQUENT, AND REPAIR AND/OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED TO MAINTAIN EFFECTIVENESS OF INSTALLATION.
6. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STAKED HAY BALE BARRIER

N.T.S.

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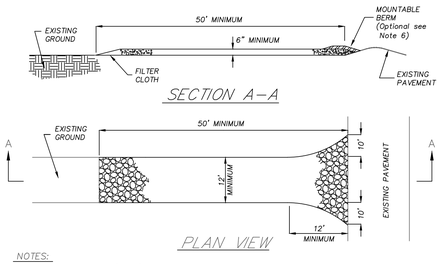
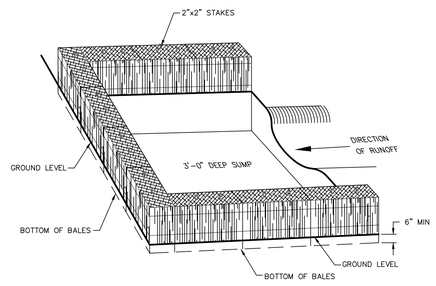


NOTES:

1. *STONE SIZE – USE 1" – 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.*
2. *LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET.*
3. *THICKNESS – NOT LESS THAN SIX (6) INCHES.*
4. *WIDTH – 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24 FOOT MINIMUM IF SINGLE ENTRANCE TO SITE.*
5. *FILTER CLOTH – TO BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.*
6. *SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.*
7. *MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DRIPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.*
8. *WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.*
9. *PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.*

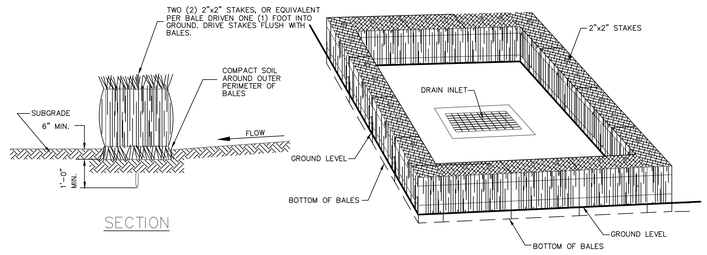
STABILIZED CONSTRUCTION ENTRANCE



NOTES:

1. ALL BALES ARE TO BE TIGHTLY BUTTED TOGETHER.
2. BALES SHALL BE EITHER STRAW OR HAY.
3. PROVIDE FREQUENT INSPECTION AND MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AND REPLACE CLOGGED BALES TO RESTORE EFFECTIVENESS OF INSTALLATION.

TEMPORARY DIVERSION DITCH WITH HAY BALE TRAP



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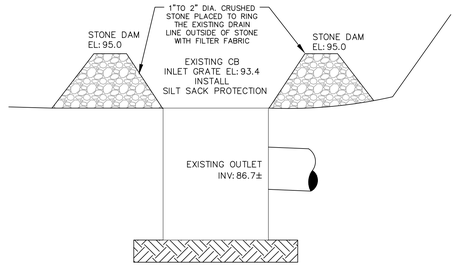
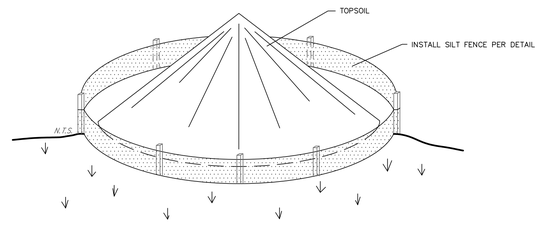
BALED FILTER



TEMPORARY STONE FILTRATION DAM FOR TST



STOCKPILE MANAGEMENT PER 2002 CT GUIDELINES FOR E & S CONTROL:

1. LOCATE STOCKPILE SO THAT NATURAL DRAINAGE IS NOT OBSTRUCTED.
2. DIVERT RUNOFF WATER AWAY FROM OR AROUND THE STOCKPILE.
3. INSTALL A GEOTEXTILE SILT FENCE OR HAY BALE BARRIER AROUND THE STOCKPILE AREA APPROXIMATELY 10 FEET FROM PROPOSED TOE OF THE SLOPE.
4. THE SIDE SLOPES OF STOCKPILED MATERIAL SHOULD BE NO STEEPER THAN 2:1.
5. STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS NEED TO BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE.
6. AFTER STOCKPILE HAS BEEN REMOVED, THE SITE SHOULD BE GRADED AND PERMANENTLY STABILIZED.

TEMPORARY TOPSOIL STOCKPILE

N.T.S.

800 LONG RIDGE ROAD, LLC
100 WASHINGTON BLVD.
SUITE 200
STAMFORD, CT 06902

DETAILS

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

CIVIL C1
CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY (203) 266 - 0778 CONNECTICUT

STATE OF CONNECTICUT
CURTIS C. JOHNSON
No. 28008
LICENSED
PROFESSIONAL ENGINEER

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SCALE: N.T.S.	
DATE: 03 OCT 23	
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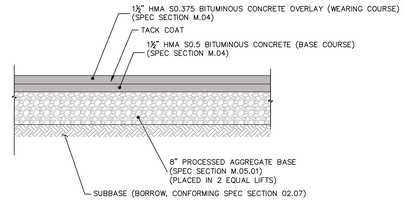
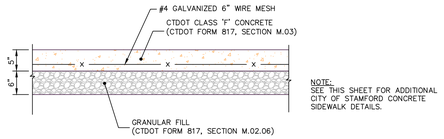
CADD FILE NAME: 4084	
DRAWING NO.: C - 6.1	

SURFACE TREATMENTS

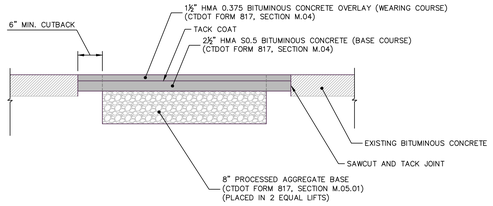


(A) BITUMINOUS CONCRETE PAVEMENT – DRIVEWAYS & PARKING LOTS
N.T.S.



NOTE:
SEE THIS SHEET FOR ADDITIONAL CITY OF STAMFORD CONCRETE SIDEWALK DETAILS.

(B) CONCRETE SIDEWALKS
N.T.S.



BITUMINOUS CONCRETE PAVEMENT – TRENCH REPAIR
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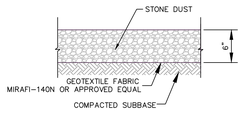
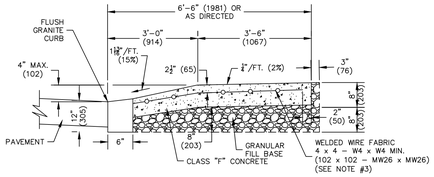
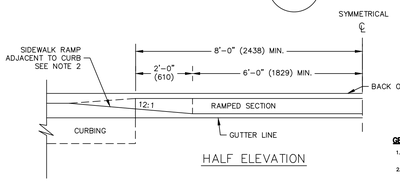


WALKING TRAIL
N.T.S.



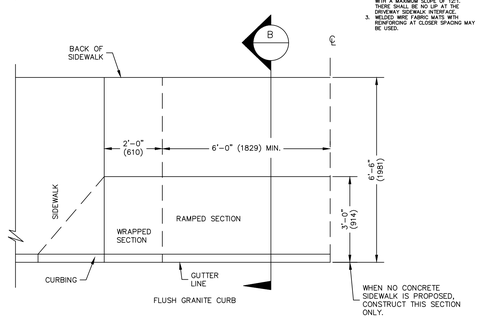
SECTION B



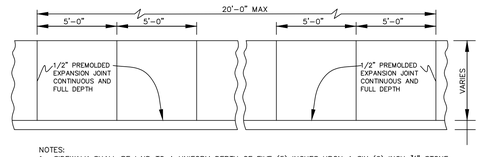
HALF ELEVATION

GENERAL NOTES:

1. DRIVEWAY ENTRANCES SHALL BE A MINIMUM OF 12' (3658) WIDE, EXCLUDING CURBING WHEN PRESENT.
2. SIDEWALK RAMPS SHALL BE MINIMUM OF 36" (914) TO 48" (1219) MAXIMUM, WITH A MAXIMUM SLOPE OF 12:1. THERE SHALL BE NO LIP AT THE DRIVEWAY SIDEWALK INTERFACE.
3. WELDED WIRE FABRIC MATS WITH SMALLER SPACING AT CLOSER SPACING MAY BE USED.

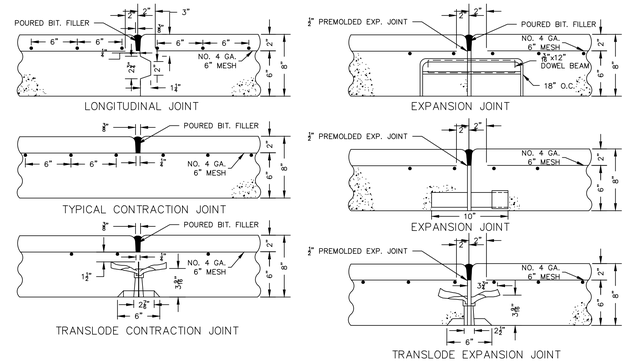


HALF PLAN OF
CONCRETE DRIVEWAY RAMP WHERE
SIDEWALK ADJOINS CURBING



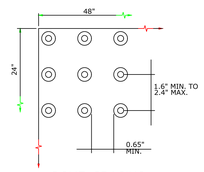
NOTES:

1. SIDEWALK SHALL BE LAID TO A UNIFORM DEPTH OF FIVE (5) INCHES UPON A SIX (6) INCH ¾" STONE BASE.
2. THE SURFACE EDGES SHALL BE ROUNDED TO A RADIUS OF 3/32 INCH.
3. A ½ INCH APPROVED BITUMINOUS JOINT SHALL BE PLACED TRANSVERSELY EVERY 20 FT. MAX., AND BETWEEN NEW CONCRETE CURBING AND SIDEWALKS.
4. A CONTROL JOINT SHALL BE MADE AT 5 FT. INTERVALS BETWEEN BITUMINOUS JOINTS.
5. CONTROL JOINTS SHALL BE A MIN. DEPTH OF 1" OR D/4.
6. ANY CHANGES REQUIRED BY LOCAL CONDITIONS SHALL BE MADE ONLY BY ORDER OF THE CITY ENGINEER.

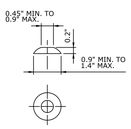


TYPICAL PAVEMENT JOINTS

ADDITIONAL CITY OF STAMFORD CONCRETE SIDEWALK DETAILS
N.T.S.

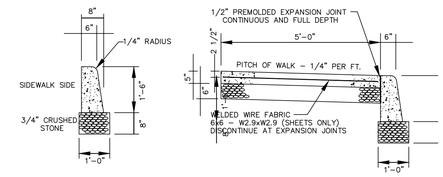


DOME SPACING



DOME SECTION

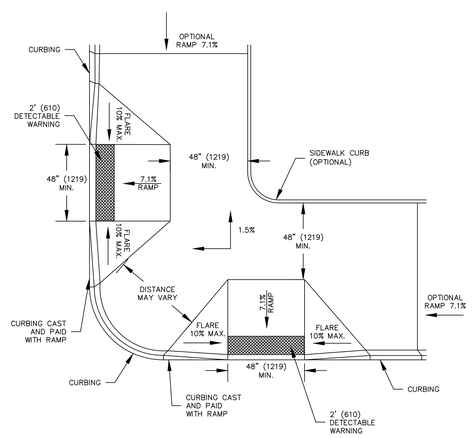
DETECTABLE WARNING DETAILS
N.T.S.



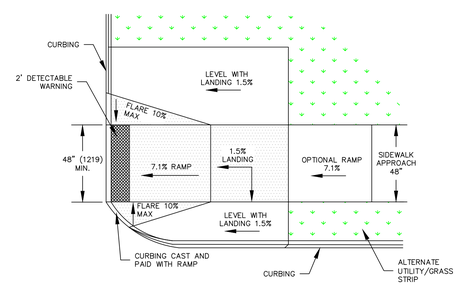
NOTE: A 1/8" STEEL DIVISION PLATE SHALL BE PLACED AT EVERY 10 FEET OF CURBING & REMOVED AFTER CONCRETE HAS SET. A 1/2" APPROVED BITUMINOUS JOINT SHALL BE PLACED AT A MAX. OF EVERY 20 FEET COINCIDING WITH EXPANSION JOINT IN SIDEWALK

CONTRACTOR TO CONSTRUCT 2" BATTER ON CONCRETE CURBING (STREET SIDE ONLY)

CONCRETE CURB
N.T.S.



DUAL PERPENDICULAR SIDEWALK RAMPS (TYPE 3)
N.T.S.



PERPENDICULAR SIDEWALK RAMP ONE
DIRECTION ON CORNER (TYPE 6a)
N.T.S.

NO.	REVISION	DATE
1	REVISED PER ENGINEERING REVIEW	14 MAY 24

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DETAILS

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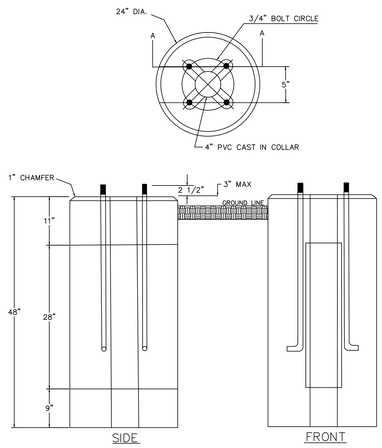
STATE OF CONNECTICUT · CHARLES C. JOHNSON · No. 12009 · LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: N.T.S.	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 6.2	

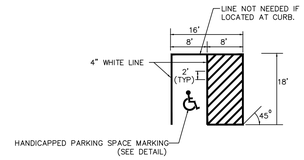


DESIGN NOTES:

1. CONCRETE – 5,000 PSI, 28 DAYS
2. ANCHOR BOLTS TO BE STEEL PER ASTM A38 – 1987E1, 3/4" X 24" W/3" LEG, ROLLED THREADS PREFERRED, 4" THREAD W/GALVANIZED HEX NUT AND ROUND FLAT GALVANIZED WASHER. THREADED END TO BE GALVANIZED A MAXIMUM OF 6"
3. THE 4" HANDHOLE AT CENTER OF BOLT CIRCLE PROJECTS INTO A 6" WIDE SLOT 28" HIGH THROUGH THE BASE
4. MANUFACTURER'S IDENTIFICATION AND MONTH/YEAR WHEN MANUFACTURED SHALL BE LEGIBLY MARKED IN/ON CONCRETE WITHIN 3" OF THE TOP
5. NUSCO SC 0415436 SHALL BE WRITTEN ON SIDE OF BASE WITH AN INDELIBLE MARKER
6. PRODUCT AS MANUFACTURED BY ARROW CONCRETE PRODUCTS, MILFORD CT OR APPROVED EQUAL.

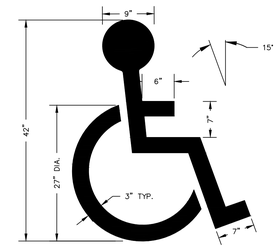
LIGHT POLE BASE

N.T.S.

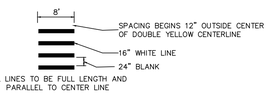


HANDICAPPED PARKING STALL DETAIL (VAN ACCESSIBLE)

N.T.S.



HANDICAPPED PARKING SPACE MARKING

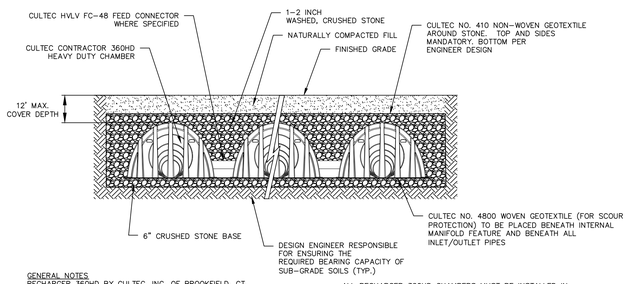


PEDESTRIAN CROSSWALK DETAIL

N.T.S.

STRIPING NOTES:

1. STOP BARS TO BE 12" UNLESS OTHERWISE NOTED ON PLANS.
2. STOP BARS TO BE PLACED A MINIMUM OF 5' IN ADVANCE OF NEAREST EDGE OF CROSSWALK.
3. IN ABSENCE OF MARKED CROSSWALK THE STOP BAR SHALL BE PLACED AT DESIRED STOPPING POINT IN NO CASE MORE THAN 30' OR LESS THAN 5' FROM THE NEAREST EDGE OF THE INTERSECTION ROADWAY AND 90° TO CENTERLINE OF ROADWAY.
4. THE STOP BAR SHALL ORDINARILY BE PLACED IN LINE WITH THE STOP SIGN. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP BAR SHOULD BE PLACED AT THE STOPPING POINT.
5. STOP BARS (AND CENTERLINE, WHEN SIDE STREET WIDTHS ARE 16' OR MORE) TO BE PAINTED ON SIDE STREETS WITHIN LIMITS OF CONSTRUCTION, UNLESS OTHERWISE INDICATED, OR AS DIRECTED BY THE ENGINEER.
6. ALL STOP BAR AND CROSSWALK MARKINGS SHALL BE INSTALLED SO THAT THE EDGE OF THE PAVEMENT MARKING DOES NOT BUTT THE CURB. THE MARKINGS SHALL END TWELVE (12) INCHES FROM THE FACE OF CURB AND THE CUT LINE SHALL BE PARALLEL WITH THE CURB.
7. PAVEMENT MARKINGS SHALL BE PREFORMED PLASTIC UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

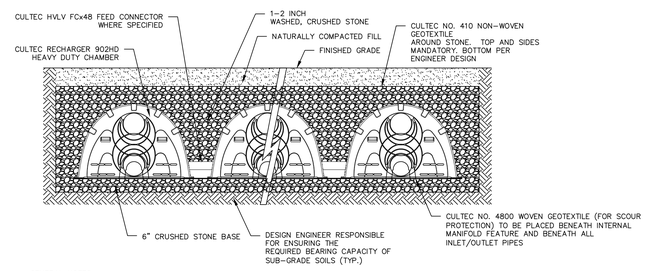


GENERAL NOTES
RECHARGER 360HD BY CULTEC, INC. OF BROOKFIELD, CT.
STORAGE PROVIDED = 15.199 CF/FT [1.58 M³] PER DESIGN UNIT.
REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
MAXIMUM ALLOWED COVER ON TOP OF UNIT SHALL BE 12.0' [3.66 m]
THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS

ALL RECHARGER 360HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

CULTEC RECHARGER 360HD

N.T.S.

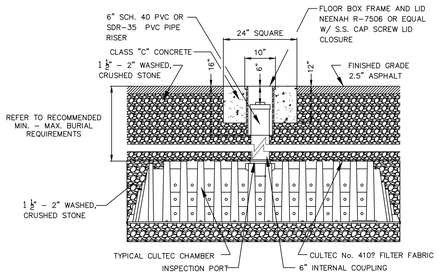


GENERAL NOTES
RECHARGER 902HD BY CULTEC, INC. OF BROOKFIELD, CT.
STORAGE PROVIDED = 27.06 CF/FT [2.81 M³] PER DESIGN UNIT.
REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
MAXIMUM ALLOWED COVER ON TOP OF UNIT SHALL BE 8.3' [2.53 m]
THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS

ALL RECHARGER 902HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

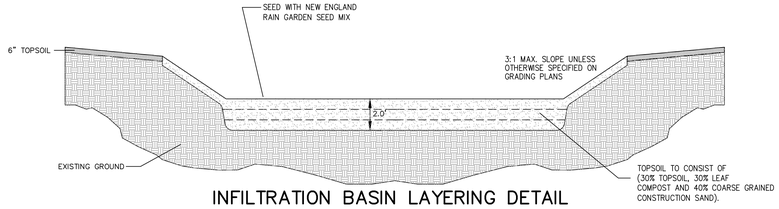
CULTEC RECHARGER 902HD

N.T.S.



TYPICAL CULTEC INSPECTION PORT

N.T.S.



INFILTRATION BASIN LAYERING DETAIL

N.T.S.

NOTES:
–EXCAVATE INFILTRATION BASIN AREAS TO PROPOSED INVERT DEPTHS AND SCARIFY EXISTING SOIL SURFACES, TAKING CARE NOT TO COMPACT THE IN–SITU MATERIALS
–PLACE TOPSOIL IN 8"–12" LIFTS, DO NOT COMPACT
–LIFTS MAY BE LIGHTLY WATERED TO ENCOURAGE NATURAL COMPACTION
–OVERFILL OF TOPSOIL IS REQUIRED TO ACCOMMODATE NATURAL SETTLEMENT TO PROPER GRADE

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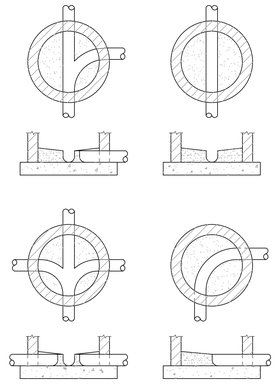
STATE OF CONNECTICUT · CURTIS C. JOHNSON · No. 22008 · LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: N.T.S.	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 6.3	

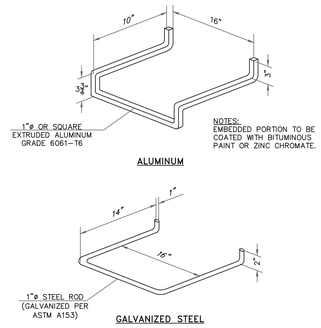
NOTES:

1. ALL PRECAST SECTIONS SHALL BE CONSTRUCTED OF REINFORCED CONCRETE, INCLUDING THE SUMP. REINFORCING SHALL CONFORM TO ASTM A615, GRADE 40 OR BETTER. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.
2. COMPACTION AROUND ALL STRUCTURES TO BE HAND TAMPED IN ACCORDANCE WITH SECTION 2.05 OF CONNDOT STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, LATEST EDITION.
3. UNREINFORCED PIPES SHALL BE CUT FLUSH WITH INSIDE FACE OF C.B. WALL. REINFORCED PIPES SHALL BE CUT TO PROVIDE 1" RECESS INTO FACE OF C.B. WALL. CUT END SHALL THEN BE PATCHED WITH MORTAR FLUSH WITH WALL.
4. ALL UNUSED KNOCK-OUTS SHALL BE BRICKED UP WHERE DIRECTED BY THE ENGINEER.
5. TYPE "C" CATCH BASIN HEAVY DUTY FRAME AND GRATE TO BE CAMPBELL FOUNDRY CO. NO. 2617 OR ENGINEER APPROVED EQUAL.
6. TYPE "C-L" CATCH BASIN HEAVY DUTY FRAME AND GRATE TO BE CAMPBELL FOUNDRY CO. NO. 3408 OR ENGINEER APPROVED EQUAL.
7. FOR OUTLET PIPES 18"I.D. OR SMALLER C.B. TRAPS TO BE CAMPBELL FOUNDRY NO. 2564 OR ENGINEER APPROVED EQUAL. FOR LARGER PIPES, LARGER TRAPS SHALL BE USED, SUBJECT TO THE APPROVAL OF THE ENGINEER. TRAPS SHALL BE HUNG FROM TWO 1/2" SQUARE STAINLESS STEEL HANGER HOOKS EMBEDDED IN WALL OF C.B.
8. AS DIRECTED, THE CONTRACTOR SHALL ADHERE THE APPROPRIATE "DON'T DUMP" PLAQUE FURNISHED BY THE CITY, TO TOPS OF CATCH BASIN FRAMES, AS SHOWN. IN ADDITION TO THE PEEL AND STICK BACKING, CONTRACTOR SHALL BOND PLAQUE TO SUBSTRATE USING EXTERIOR GRADE CONSTRUCTION ADHESIVE. COST OF THIS SHALL BE INCLUDED IN THE COST OF CATCH BASIN WORK.
9. CASTINGS DESIGNATED AS "HEAVY DUTY" SHALL SAFELY WITHSTAND AASHTO HS20 HIGHWAY LOADING.
10. ALL STEEL TO BE STRUCTURAL GRADE CONFORMING TO ASTM A36.
11. CAST IRON SHALL CONFORM TO ASTM A48 CLASS 30.
12. SEAT OF MANHOLE FRAMES, EDGES AND BOTTOM OF COVERS SHALL BE MACHINED TO A TRUE SURFACE SO COVERS WILL NOT BIND OR ROCK ON FRAMES.
13. FIRST STEP FROM TOP OF MANHOLE SHALL BE SHORTENED SO AS TO EXTEND NOT MORE THAN 4" FROM WALL OF MANHOLE. ALL OTHER STEPS SHALL EXTEND 6" FROM WALL.
14. APPROVED CONCRETE BLOCK MAY BE USED IN LIEU OF BRICK IN THE CONSTRUCTION OF CATCH BASINS AND STORM MANHOLES.
15. WHERE SHOWN, STEEL ITEMS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 FOR STEEL SHAPES AND PLATES, OR ASTM A153 FOR HARDWARE.
16. REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING: BAR REINFORCEMENT – ASTM A615, GRADE 60 WELDED WIRE FABRIC – ASTM A184, WELDED DEFORMED WIRE FABRIC – ASTM A497
17. UNREINFORCED PIPES SHALL BE CUT FLUSH WITH INSIDE FACE OF C.B. WALL. REINFORCED PIPES SHALL BE CUT TO PROVIDE 1" RECESS INTO FACE OF C.B. WALL. CUT END SHALL THEN BE PATCHED WITH MORTAR FLUSH WITH WALL.
18. ALL UNUSED KNOCK-OUTS SHALL BE BRICKED UP WHERE DIRECTED BY THE ENGINEER.
19. EXISTING CATCH BASINS TO REMAIN MUST HAVE 2' DEEP SUMPS AND CB BELL TRAPS. IF THEY CAN NOT SUPPORT A 2' DEEP SUMP AND CB BELL TRAP THEY WILL BE REPLACED.



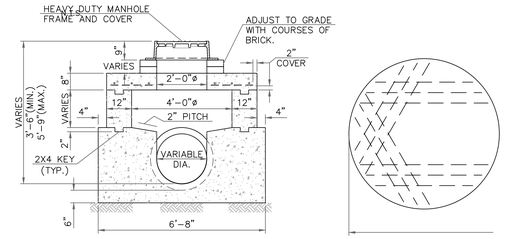
TYPICAL INVERTS

N.T.S



MANHOLE STEPS

N.T.S



SECTION

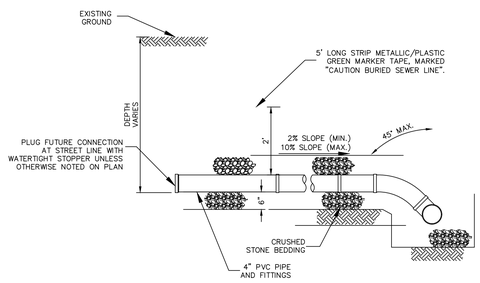
PLAN-TOP SLAB

NOTES

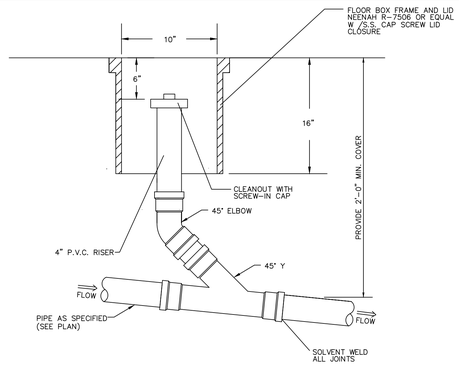
1. ALL CONCRETE TO BE CLASS "A" CONCRETE.

SHALLOW MANHOLE (SW-2)

SCALE: 1/2" = 1'-0"



BUILDING SEWER LATERAL DETAIL



SANITARY SEWER CLEANOUT

NO.	REVISION	DATE
1	REVISED PER ENGINEERING REVIEW	14 MAY 24
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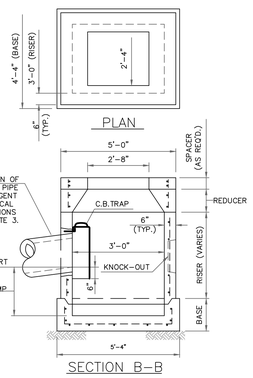


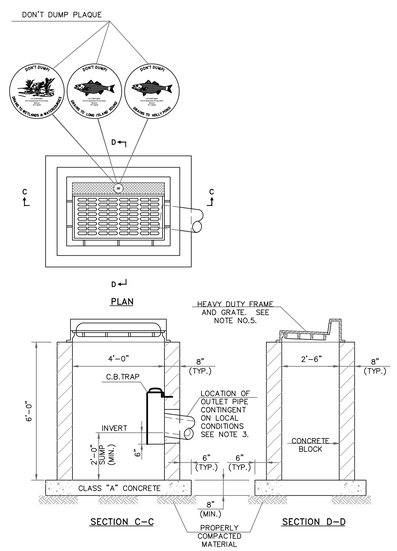
SECTION B-B

NOTES:

1. APPLICABLE FOR TYPE "C" AND TYPE "C-L" CATCH BASINS.
2. HEAVY DUTY GRATE AND FRAME NOT SHOWN.
3. EXISTING CATCH BASINS TO REMAIN MUST HAVE 2' DEEP SUMPS AND CB BELL TRAPS. IF THEY CAN NOT SUPPORT A 2' DEEP SUMP AND CB BELL TRAP THEY WILL BE REPLACED.

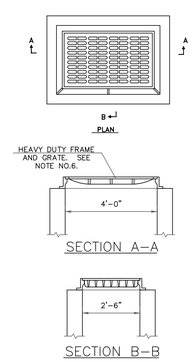
TYPICAL PRECAST CATCH BASIN (STANDARD)

N.T.S.



STANDARD CATCH BASIN (MASONRY) TYPE B-1 AND TYPE "C"

N.T.S.

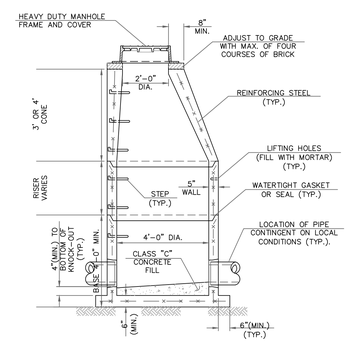


NOTES:

1. MASONRY CATCH BASIN SHOWN, PRECAST CATCH BASIN SIMILAR.
2. SEE STANDARD CATCH BASIN DETAIL FOR ADDITIONAL INFORMATION.

C-L CATCH BASIN FRAME AND GRATE

N.T.S.

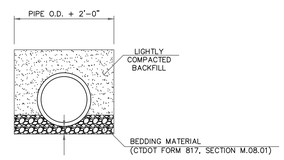


NOTES:

1. 5 FT. & 6 FT. DIA. PRECAST BASES MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE.
2. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' AND 6' BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS TO INCREASE 1 INCH FOR EACH 1 FOOT OF INSIDE DIAMETER INCREASE.
3. FOR ADDITIONAL INFORMATION, SEE "STANDARD MANHOLE (LESS THAN 36" PIPE)" DETAIL, THIS SHEET.

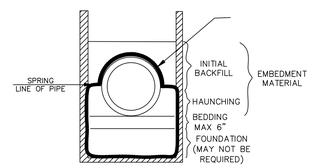
STANDARD MANHOLE (PRECAST CONCRETE UNITS)

N.T.S



BEDDING DETAIL FOR REINFORCED CONCRETE PIPES

N.T.S.



ASTMD 2321 STANDARD RECOMMENDED PRACTICE FOR UNDERGROUND INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE DEFINES ACCEPTABLE MATERIALS AS FOLLOWS:

CLASS I – ANGULAR, 6 TO 40 mm (1/4" TO 1 1/2") GRADE STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL SLAG, CINDERS, CRUSHED STONE, AND CRUSHED SHELLS.

CLASS II – COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 140 mm (1 1/2"), INCLUDING VARIOUSLY GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER WET OF DRY. SOIL TYPES GW, SW, AND SP ARE INCLUDED IN THIS CLASS.

CLASS III – FINE SAND AND CLAYEY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES, AND GRAVEL-CLAY MIXTURES. SOIL TYPES GW, GC, SM, AND SC ARE INCLUDED IN THIS CLASS

BEDDING DETAIL FOR P.V.C. PIPE (SANITARY SEWER)

N.T.S.

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DATE: 03 OCT 23	
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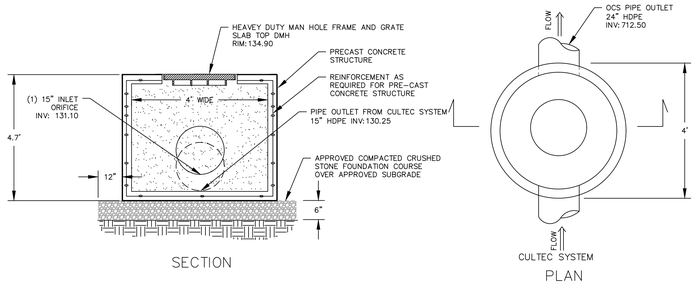
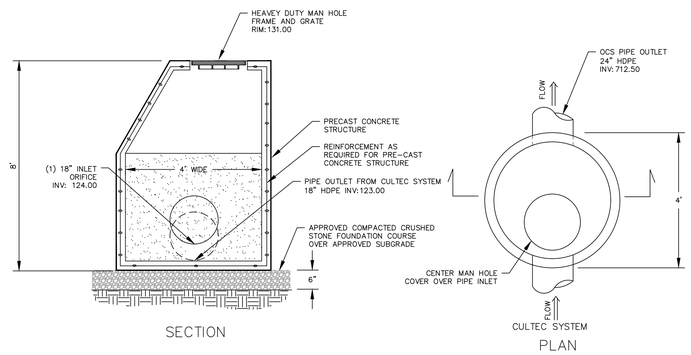
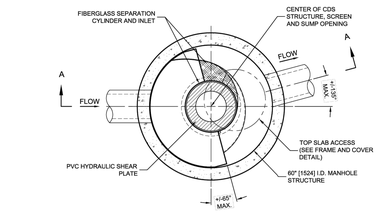
CADD FILE NAME: 4084	
DRAWING NO.: C - 6.4	



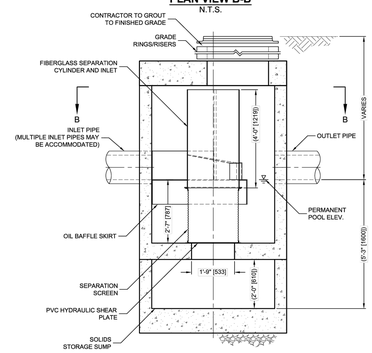
OUTLET CONTROL STRUCTURE – BASIN #B1



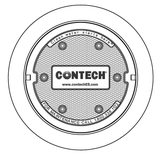
OUTLET CONTROL STRUCTURE – BASIN #B2



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

CDS2020-5-C DESIGN NOTES

THE STANDARD CDS2020-5-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (CFS OR L/s)			*
PEAK FLOW RATE (CFS OR L/s)			*
RETURN PERIOD OF PEAK FLOW (YRS)			*
SCREEN APERTURE (2400 OR 4700)			*
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
INLET PIPE 2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION			*
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
		*	*
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			

GENERAL NOTES
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2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
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INSTALLATION NOTES
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B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
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CDS2020-5-C
INLINE CDS
STANDARD DETAIL

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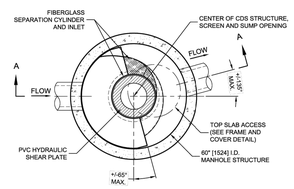
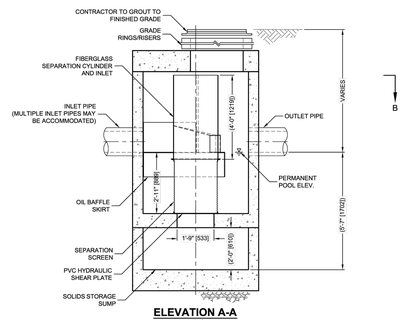
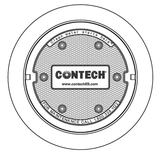
HYDRODYNAMIC SEPARATOR STRUCTURE "B3"



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

CDS2025-5-C DESIGN NOTES

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CONFIGURATION DESCRIPTION

GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (CFS OR L/s)			*
PEAK FLOW RATE (CFS OR L/s)			*
RETURN PERIOD OF PEAK FLOW (YRS)			*
SCREEN APERTURE (2400 OR 4700)			*
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
INLET PIPE 2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION			*
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
		*	*
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			

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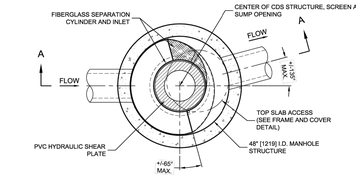
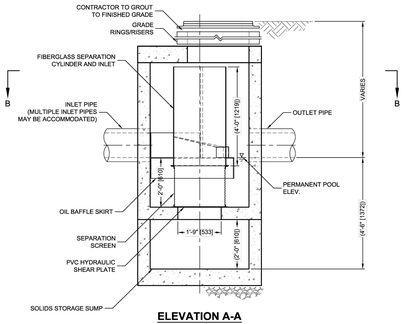
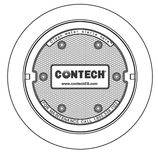
HYDRODYNAMIC SEPARATOR STRUCTURE "B4"



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

CDS2015-4-C DESIGN NOTES

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OUTLET PIPE	*	*	*
RIM ELEVATION			*
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
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HYDRODYNAMIC SEPARATOR STRUCTURE "B1" & "B2"

NO.	REVISION	DATE
1	REVISED PER ENGINEERING REVIEW	14 MAY 24

Previous Editions Obsolete

800 LONG RIDGE ROAD, LLC
100 WASHINGTON BLVD.
SUITE 200
STAMFORD, CT 06902

DETAILS

800 LONG RIDGE ROAD

STAMFORD CONNECTICUT

CIVIL 1
CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY (203) 266 - 0778 CONNECTICUT

STATE OF CONNECTICUT · CHRISTOPHER C. JOHNSON · No. 28309 · LICENSED PROFESSIONAL ENGINEER

DRAWN: BB	APPROVED: CJ
SCALE: N.T.S.	
DATE: 03 OCT 23	
PROJ. NO.: 4084	
CADD FILE NAME: 4084	
DRAWING NO.: C - 6.5	

MAINTENANCE PLAN FOR STORM DRAINAGE SYSTEM

CATCH BASINS, SWALES AND PIPE OUTFALLS:

1. Catch basins, swales & all pipe outfalls will be inspected on an annual basis. Any floatables, trash, debris or sediment build up shall be removed by a licensed contractor.

2. Swales will be grass-lined and will be mowed regularly as part of typical landscaping maintenance.

3. The swale outfalls to the infiltration beds will inspected on a semi-annual basis for any sediment & debris build up. Any accumulated sediment or debris will be removed.

INFILTRATION BASINS:
First Year of Operation:

1. Watering of newly planted vegetation shall be as necessary to maintain healthy plants during the first growing season.

2. Inspections shall take place after significant rainfall events (one inch or greater) and at least every 6 months thereafter.

Semi-Annual: (Generally Spring and Fall).

1. Cut or mow grass lined slopes and swales. Areas with slopes steeper than 3H:1V shall be cut with a line trimmer.

2. Inspect for and remove invasive vegetation

3. Clean and remove any trash or debris paying particular attention to inlet and outlet areas.

4. Monitor filter bed for evidence of standing water or clogging from accumulated sediments. Sediment shall be removed when the accumulation exceeds one inch, or the capacity of the filter bed is significantly reduced (observed standing water above the design level or drawdown time exceeds 36-48 hours).

5. If standing water remains ponded for more than the above times then the filter media must be mitigated or repaired to correct this condition. This typically involves removal and replacement of the top several inches of discolored material (preferably by hand raking).

6. Remove sediment once it has built up to a depth of 2" or greater near the inlets in the forebay area.

7. Remove excess leaves and debris. Plant matter shall be left in place over winter months to insulate the soil and add organic matter to the soil. Removal criteria shall include when plant matter is smothering or killing vegetation and aesthetics.

8. Add supplemental plantings or seed as needed to maintain 80% area cover for turf areas and 50% area cover for tree/shrub areas.

CULTEC RECHARGER BEDS:

1. The Cultec Recharger beds will be inspected on a biannual basis. the inspection will take place through the provided inspection ports. if sediment has built up to a depth of 3" or greater in the bottom of the units then sediment build up shall be removed by a licensed contractor with a vac truck and which shall use the up gradient catch basins as the access points for maintenance.

HYDRODYNAMIC SEPARATORS (CONTECH CDS 2015-4 UNITS):

1. Maintenance

The hydrodynamic separator unit must be inspected at regular intervals and maintained in order to ensure optimum performance. inspections shall be done on a biannual basis as listed below.

The hydrodynamic separator must be cleaned when inspection reveals that the sediment depth has accumulated to within six inches of the dry-weather water surface elevation. This determination is made by taking 2 measurements with a stadia rod or similar measuring device; one measurement from the manhole opening to the top of the sediment pole and the other from the manhole opening to the water surface. The system must be cleaned out if the difference between the two measurements is six inches or less. note: to avoid underestimating the volume of sediment in the chamber, the measuring device must be lowered to the top of the sediment pile carefully. Finer, silty particles at the top of the pile typically offer less resistance to the end of the rod than larger particles toward the bottom of the pile.

2. Cleaning

Maintaining the hydrodynamic separator is easiest when there is no flow entering the system. For this reason, cleanouts must be performed during dry weather. Cleanout of the unit will be done with a vacuum truck as it is the most effective and convenient method of excavating pollutants from the system. Trash will be netted out to separate it from the other pollutants.

Accumulated sediment shall be evacuated through the manhole over the grit chamber. Simply remove the cover and insert the vacuum hose into the grit chamber.

Manhole covers must be securely sealed following cleaning activities, to ensure that surface runoff does not leak into the unit from above unless the unit has been specified with an inlet grate.

RESPONSIBILITY:

The onsite catch basins, hydrodynamic separators, infiltration basins AND the underground stormwater rechargers and all aspects of the storm drainage system must be maintained in good working condition. responsibility for any necessary repairs to storm drainage systems will be the responsibility of the property owner and/or manager.

INSPECTION REPORTS:

After each inspection an inspection report confirming that the maintenance listed above was completed must be submitted to the Stamford Engineering Department.

The the on-site catch basins, swales, infiltration beds, rain gardens pervious pavement and all aspects of the storm drainage system must be maintained in good working condition in accordance with the intent of these site plans.

CONSTRUCTION SEQUENCE

THE SEQUENCE OF CONSTRUCTION WILL BE AS FOLLOWS:

Field stakeout the limits of all construction activities. Establish staging areas for construction equipment and trailers in locations indicated on site plans. There will be a northern and souther staging area.

Haybales and/or siltation fence and other erosion control features will be placed as shown on the enclosed plan prior to the start of any construction.

Remove stumps and vegetation from the area of construction.

Demolish existing building and remove or abandon existing infrastructure that will not be used for the proposed project.

Install the anti-tracking pad as shown on the plan. At the end of each working day any accumulated silt shall be swept from the existing town roads.

Grade out proposed infiltration basin to be used as temporary sediment traps if necessary during construction. Install filter fabric in bottom of basin for sediment removal after stabilization for conversion to infiltration basin. Intall temporary perforated riser pipe and stone filtration ring at existing catch basin north of proposed infiltration basin as shown on plans.

Strip and stockpile topsoil and subsoil material at the locations shown on the plans outside of the wetlands regulated area.

The cuts and fills will be made and all slopes loamed, seeded and mulched.

The drainage systems will now be installed. Haybales shall be placed around the catch basins to stop silt from entering the drainage system. The gravel around the catch basin rim shall be graded to ensure that no water enters the catch basin until pavement is installed. Use additional water bars to divert surface runoff away from catch basins, if necessary. The haybales around the catch basins shall be kept in place until the road is paved and the area has sufficient ground cover to control erosion.

Place gravel on driveway and parking area.

The building slab will be excavated and the slab constructed.

The area surrounding the building slab will be final graded and seeded.

Install any underground utilities.

Construct the building

Pave driveway and parking areas.

Provide temporary seeding measures on all exposed soils which were damaged due to construction activities and are not to be permanently restored or are outside of construction traffic zones for a period in access of 30 days.

Seed all disturbed areas.

Clean all silt from drainage structures.

The starting time for the construction is unknown, however the time limit for the site construction and building is approximately 360 days.

The following general specifications will also be adhered to:

Land disturbance will be kept to a minimum. Restabilization will be scheduled as soon as practical.

Haybale filters will be installed at all culvert outlets and along the toe of all critical cut and fill slopes.

Catch basins will be protected with haybale filters throughout the construction period and until all disturbed areas are thoroughly stabilized.

All erosion and sediment control measures will be constructed in accordance with the standards and specifications of the Guidelines for Erosion and Sediment Control (2002) of the State of Connecticut.

Erosion and sediment control measures will be installed prior to construction whenever possible.

All control measures will be maintained in effective condition throughout the construction period.

Additional control measures will be installed during construction if necessary or required.

GENERAL PRINCIPLES

The following general principles shall be maintained as effective means of minimizing erosion and sedimentation during the development process.

Stripping away of vegetation, regrading or other development shall be done in such a way as to minimize erosion.

Grading and development plans shall preserve important natural features, keep cut and fill operations to a minimum, and insure conformity with topography so as to create the least erosion potential and adequately handle the volume and velocity of surface water runoff.

Whenever feasible, natural vegetation shall be retained, protected and supplemented wherever indicated on the site development plan.

The undisturbed area and the duration of exposure shall be kept to a practical minimum.

Disturbed soils shall be stabilized as quickly as possible.

Temporary vegetation and/or mulching shall be used to protect exposed critical areas during development when expected to be exposed in excess of 30 days.

The permanent (final) vegetation and mechanical erosion control measures shall be installed as soon as practical during construction.

Sediment in the runoff water shall be trapped until the disturbed areas is stabilized by the use of debris basins, sediment basins, silt traps or similar measures.

Concentration of surface runoff shall be only permitted by piping and/or through drainage swales or natural watercourses.

Excavation and Fills --

Slopes created by cuts or fills shall not be steeper than 2:1 and shall be restabilized by temporary or permanent measures, as required during the development process and shown on the site plans.

Adequate provisions shall be made to prevent surface water from damaging the cut face of excavations or the sloping surfaces of fills.

Cut and fills shall not endanger adjoining property.

All fills shall be compacted to provide stability of material and to prevent undesirable settlement. The fill shall be spread in a series of layers each not exceeding twelve (12) inches in thickness and shall be compacted by a sheep roller or other approved method after each layer is spread.

Fills shall not encroach on natural watercourses, constructed channels or regulated flood plain areas, unless permitted by license or permit from authority having jurisdiction in accordance with approved site plans.

Fills placed adjacent to natural watercourses, constructed channels or flood plains shall have suitable protection against erosion during periods of flooding.

Grading shall not be done in such a way as to divert water onto the property of another landowner without their express written consent.

During grading operations, necessary measures for dust control shall be exercised.

Sedimentation and erosion control shall be implemented in accordance with the Guidelines for Soil Erosion and Sediment Control (2002) - State of Connecticut DEP Bulletin 34.

The following general specifications will also be adhered to:

Land disturbance will be kept to a minimum. Restabilization will be scheduled as soon as practical.

Haybale filters will be installed at all culvert outlets and along the toe of all critical cut and fill slopes.

Catch basins will be protected with haybale filters throughout the construction period and until all disturbed areas are thoroughly stabilized.

All erosion and sediment control measures will be constructed in accordance with the standards and specifications of the Guidelines for Erosion and Sediment Control (2002) - State of Connecticut DEP Bulletin 34.

Erosion and sediment control measures will be installed prior to construction whenever possible.

All control measures will be maintained in effective condition throughout the construction period.

Additional control measures will be installed during construction if necessary or required.

All erosion control measures shall be inspected weekly and within 24 hours of a rainfall event of 0.5 inches or greater.

RESPONSIBILITY FOR THE PLAN

Whenever sedimentation is caused by stripping vegetation and/or grading, it shall be the responsibility of the person, corporation or other entity having responsibility to remove sedimentation from all lower properties, drainage systems and watercourses and to repair any damage at their expense as quickly as possible.

All control measures will be maintained in effective condition throughout the construction period. Surface inlets shall be kept open and free of sediment and debris. The system shall be checked after every major storm and sediment shall be disposed of at an approved location consistent with the plan.

It shall be the responsibility of any person, corporation or other entity engaging in any act on or near any stream, watercourse or swale or upon the flood plain or right-of-way thereof to maintain as nearly as possible in its present state that same stream, watercourse, swale, flood plain or right-of-way for the duration of the activity and to return it to its original or equal condition after such activity is completed.

No person, corporation or other entity shall block, impede the flow of, alter, construct any structure or deposit any material or thing or commit any act which affects normal or flood flow in any communal stream or watercourse without having obtained prior approval from the Town.

SEEDING AND PLANTING REQUIREMENTS

Seedbed Preparation
Fine grade and rake surface to remove stones larger than 2" in diameter. Install needed erosion control devices such as surface water diversions. Grade stabilization structures, sediment basins or drainage channels to maintain grassed areas. Apply limestone at a rate of 2 tons/Ac. or 90 lbs/1000 SF unless otherwise required according to soil test results. Apply fertilizers with 10-10-10 at a rate of 300 lbs./Ac. or 7.5 lbs/1000 SF. At least 50% of the nitrogen shall be from organic sources. Work lime and fertilizer into soil uniformity to a depth of 4" with a whisk, springtooth harrow or other suitable equipment following the contour lines.

Seed Application
Apply grass mixtures at rates specified by hand, cyclone seeder or hydroseeder. Increase seed mixture by 10% if hydroseeder is used. Lightly drag or roll the seeded surface to cover seed. Seeding for selected fine grasses should be done between April 1 and June 1 or between August 15 and October 15. If seeding cannot be done during these times, repeat mulching procedure below until seeding can take place or seed with a quick germinating seed mixture to stabilize slopes. A quick germinating seed mixture (Domestic Rye) can be applied between June 15 through August 15 as approved by the Architect or Engineer.

Mulching
Immediately following seeding, mulch the seeded surface with straw, hay or wood fiber at a rate of 1.5 to 2 tons/Ac. except as otherwise specified elsewhere. Mulches should be free of weeds and coarse matter. Spread mulch by hand or mulch blower. Punch mulch into soil surface with track machine or disk harrow set straight up. Mulch material should be "tucked" approximately 2- 3" into the soil surface. Chemical mulch binders or netting, in combination with the straw, hay or wood fibers, will be used where difficult slopes do not allow harrowing by machines.

Grass Seed Mixtures

Temporary Covers		Permanent Covers	
Perennial ryegrass	20 lbs/Ac.	Creeping Red Fescue	40 lbs/Ac.
Annual ryegrass	20 lbs/Ac.	Canada Bluegrass	20 lbs/Ac.

EROSION CONTROL NARRATIVE

TEMPORARY CONTROL DEVICES

Soil Erosion and sediment control during construction will be accomplished using the temporary devices and procedures described below:

1. Silt Fences - Silt fences consist of a woven filter fabric stabilized and installed with vertical posts. The fence will be no less than three feet high (refer to detail). Fences will be secured in place by 1-1/2" x 1-1/2" wooden or metal stakes, set at upgradient face of the run and compacted. Join section by overlapping ends to prevent any silt bypassing adjoining sections. Sufficient extension of each end section should be installed upgrade to ensure run-off will be contained and will not flow around the ends. The primary purpose of silt fence is to intercept and detain sediment contained within overland runoff from disturbed areas. In addition, silt fence will physically delineate the down gradient limits of construction. Offset areas shall be provided periodically along long runs of silt fence for wildlife passage.

Installation and Maintenance

a. Silt fences will be installed where the disturbed land is located 200 feet or less from critical areas (streams and wetlands).

b. Silt fences will be installed on down slope of work areas five to ten feet from the base of slope.

c. At the base of drainage ways or where the disturbance will remove natural vegetation within 100 feet of critical areas, the silt fencing will be augmented by a single row of staked hay bales.

d. Filter fabric will be Trevira 1127 or equal.

e. Sediment will be removed from behind siltation fences when sediment has accumulated to 25% of original height of the fence.

2. Hay Bale Barrier - Hay bale barriers will be utilized to intercept sediment and reduce runoff velocities around stockpiled earth materials and diver runoff away from disturbed areas of limited extent. This device will be used both upgradient/downgradient of grading operations.

Installation and Maintenance:

a. The contributory drainage area will be less than one acre.

b. The bales will be tightly bound, steel pin or hardwood stake anchored, and imbedded four inches below grade, with ends tightly abutting each other.

c. The hay bale berms shall be inspected periodically and deteriorated bales replaced until such time as construction is completed and exposed slopes have been stabilized.

3. Hydroseeding - Hydroseeding will be the primary means of stabilizing areas of disturbed earth. Hydroseeding will not be permitted, however, within cut areas or steep slopes. The seed mix, fertilizer, water, and mulch will be applied as a mixture utilizing power equipment. Fertilizer will not be included in the mix for disturbance within the regulated area adjacent to wetlands. The mix will be applied in two equal applications. Dyes will be used to determine the extent of coverage upon application. After grass has appeared, those areas which fail to show a uniform stand of grass will be reseeded. This process will be repeated until all areas are covered with satisfactory growth. Hydroseeding will be completed with 48 hours following completion of rough grading.

4. Erosion Control Blankets - Blankets will be utilized for slopes > 4:1 to stabilize areas of disturbed earth. The type of blanket shall be as manufactured by North American Green or approved equal in accordance with the following schedule:

a. For slopes from 4:1 to 3:1 and low flow swales use S75 Straw Blankets.

b. For slopes from 3:1 to 2:1 and low flow swales use S150 Straw Blankets.

c. For slopes steeper than 2:1 stone slope protection or retaining walls shall be designed by a professional engineer.

Install all blankets in accordance with all manufacturers recommendations.

5. Dust Control = Water will be applied by sprinkler or water truck as necessary during grading operations to minimize sediment transport and maintain acceptable air quality conditions. Repetitive treatments will be done as needed until grades are paved.

6. Stabilized Construction Entrance - A ramp of crushed stone extending a minimum distance of 50 feet will be installed at each point of ingress and egress to the site. The purpose of the device is to minimize the potential of tracking mud from the site onto public rights-of-way.

Installation and Maintenance:

a. Minimum length will be 50 feet

b. Stone size will be 1.5 to 2.5 inches

c. Stone will be placed upon the full width of the entrance roads

d. Thickness of stone will be six inches or greater

e. Additions of stone will be done periodically to maintain the entrance

f. All sediment spilled, dropped, washed or tracked onto public rights-of-way will be removed immediately.

7. Water Bars - A channel with a supporting berm on the down slope side constructed across a construction access road, driveway, log road, or other access way. The Purpose is to minimize the concentration of sheet flow across down slopping roadways and accessways or similar sloping and unstable areas.

Maximum spacing of water bars shall be as follows:

Access way slope	Spacing (ft.)
1%	400
2%	245
5%	125
10%	78
15%	58

8. Sediment Traps - At appropriate intervals, runoff collected in diversion berms or swales will be directed, via a small dike or ditch, to a sediment trap. The trap consists of a small excavation and/or embankment. The purpose of the trap is to collect runoff, promote settling of sediment and deconcentrate and distribute clean runoff overland through vegetation before entering watercourses and wetlands.

a. Contributory drainage areas less than or equal to five acres.

b. Utilize as part of swales prior to discharge to natural slopes.

c. Traps will be placed such that runoff discharging from the trap will flow at least 30 feet overland through natural vegetation before entering stream channels or wetlands.

d. Traps will be designated for a minimum of 134 cubic yards of storage/acre of drainage area received by the trap.

e. Maximum depth of trap will be five feet.

f. Trap embankments shall not exceed five feet in height. Top width shall be four feet and sides shall have a 2:1 or flatter slope.

g. Trap sides shall be compacted during construction.

h. The trap outlet shall have crushed stone rip-rap hand placed over the trap.

i. Traps will be cleaned when sediment has accumulated to 50 percent of design volume and removed sediment deposited so it will not erode.

9. Temporary/Permanent Swales - Both grassed swales and rock-lined swales will be utilized (depending on grade) o convey runoff during construction. Swales generally will be located adjacent to roads, car paths and at the base of slopes. At frequent intervals, runoff in the roadway swales will pass through stone check dams and sediment traps to reduce velocities and remove sediment. As often as possible, runoff in the swales will be directed overland and allowed to filter through natural vegetation.

a. All swales shall be evaluated on an individual basis. Swales should be designed so that the velocity of flow from a 10-year frequency storm shall not exceed the permissible velocity for the type of lining used.

10. Diversion Berm (Soil) - This is a temporary raised berm of compacted soil, placed across a disturbed slope, that intercepts runoff from disturbed areas and directs it to an appropriate outlet. This device will be used mostly on steep slopes above deep excavations. Soil diversion berms should only be used where the intended use is 5 days or less.

a. Diversion berms may be placed on cut and fill slopes exceeding ten feet in height.

b. Use of temporary fill berms shall be restricted to areas with a contributing drainage area not greater than one acre. For areas with a contributing drainage area exceeding 1 acre and less than 5 acres, design the temporary diversion to the permanent diversion measure standards using the 2-year storm as the design storm. For areas with a contributing drainage area of 25 acres or less employ the use of a permanent diversion designed in accordance with the CT DOT drainage manual.

c. Runoff will be diverted overland by the berms to sediment traps, sedimentation basins, swales, check dams, or bio-infiltration basins.

d. On slopes over two percent, additional stabilization is required in the form of stone rip-rap eight inches vertically along the upslope side of the berm and seven feet upslope from the upslope toe of the berm.

e. Top width of berm will be two feet. The upslope side of the berm slope should be no steeper than 3:1, while the down slope side of the berm shall be no steeper than 1:1.

f. All berms shall be machine compacted.

11. Rock Check Dams = Temporary rock check dams are small dikes (approximately three feet high) constructed at frequent intervals in drainage ways where silt fences and hay bale check dams are impractical due to high flow velocities. The primary function of these devices is to promote deposition of sediment and provide some filtering of runoff water, Check dams will be constructed with a 1.5 to 2.0 inch crushed stone core.

a. Check dams will be placed in drainage ways:

b. Downstream of stream crossing where high flow velocities make other sediment filtering devices impractical.

c. Sediment shall be removed from rock check dams when sediment has accumulated to 50 percent of original height.

d. Peat or other wetlands material will be excavated and stockpiled prior to rock check dam installation and replaced once construction is complete.

12. Temporary Mulching - Temporary mulching of slopes and bare earth shall be provided where areas are left undisturbed from continuing earthwork operations. Hay or straw are to be spread over areas, in particular disturbed areas in close proximity of wetlands and watercourses. Apply a minimum of 2 to 3 inches to a scarified surface.

13. Dewatering - Dewatering measures will be utilized as necessary to treat water that is generated during dewatering operations.

a. Dewatering of earth materials shall be utilized where excessively wet soil is encountered. Topsoil shall be stripped from the containment area and any surface water shall be diverted away from this area as necessary. Construction of berm around perimeter of containment area shall utilize suitable stable soils. Saturated soil within containment area shall be placed such that drainage can occur.

b. Locate pumps, intake sumps, and other intake structures in areas which will not require constant moving, when possible. Provide protection at outlets from pumping operations to dissipate pumping surges and prevent erosion at the point of discharge.

CONTROL PLAN IMPLEMENTATION

In addition to the devices and schedules outlined in this soil erosion and sediment control plan, the following procedures will be followed by the earthwork contractor:

1. The contractor shall inspect the effectiveness and condition of erosion control devices during storm events, after each rainfall of one-half inch magnitude or greater, prior to weekends, and prior to forecasted storm events.

2. The contractor shall repair or replace damaged erosion control devices immediately, and in no case, more than four hours after observing such deficiencies.

3. The contractor shall be prepared to implement interim drainage controls and erosion control measures as may be necessary during the course of construction.

4. The contractor shall make available on-site all equipment, materials and labor necessary to effect emergency erosion control and drainage improvement within four hours of any impending emergency situation.

5. The contractor shall make a final inspection, clean all cross culverts and sweep off roadways before the road is either accepted by owner or dedicated to the City.

NO.	REVISION	DATE
1	REVISED PER ENGINEERING REVIEW	14 MAY 24

Previous Editions Obsolete

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PROJECT NOTES & EROSION CONTROL NARRATIVE

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