

SITE DEVELOPMENT PLAN SOLAR ENERGY STORAGE SYSTEM (ESS)

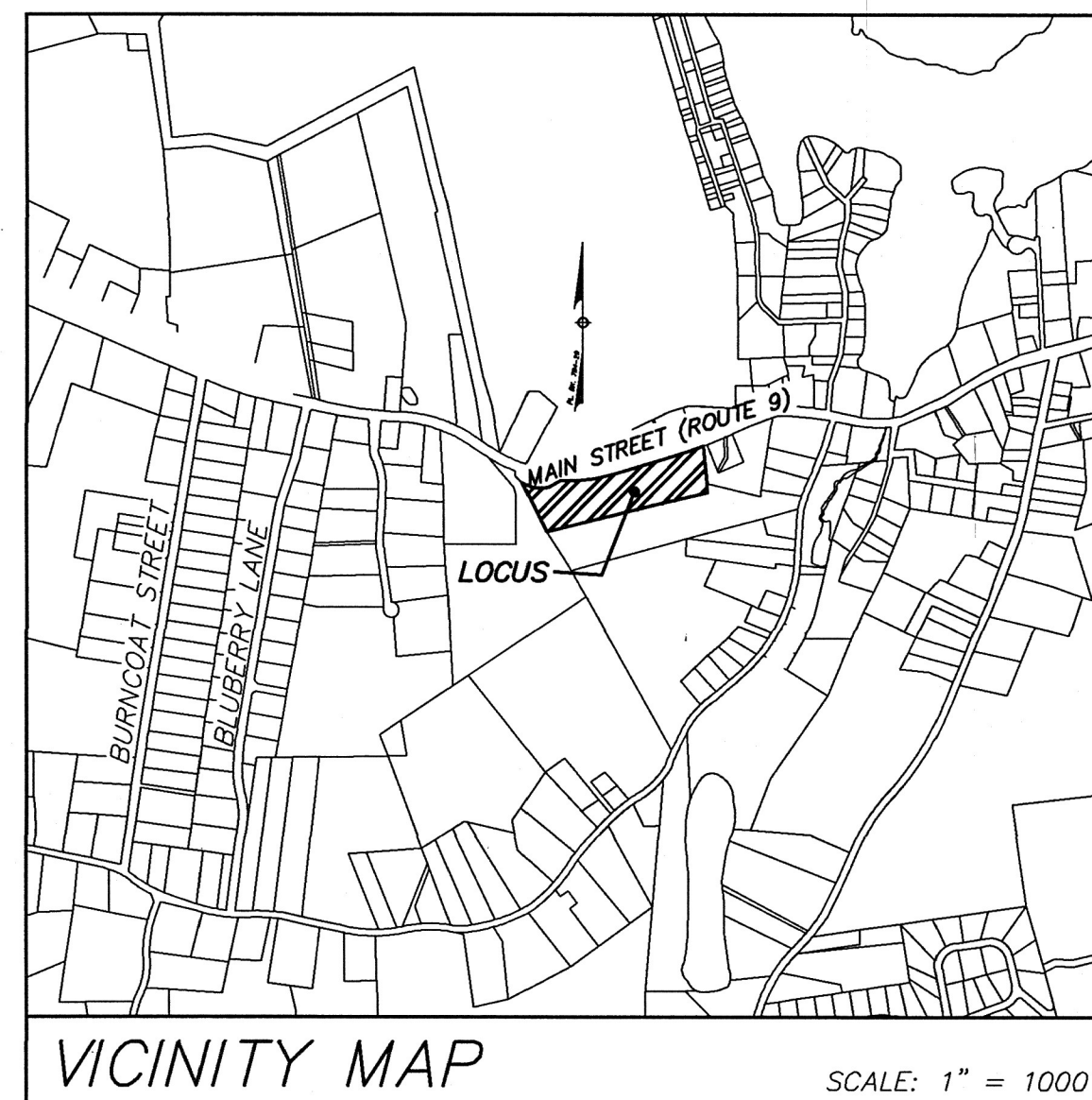
1355 MAIN STREET

IN

LEICESTER, MASSACHUSETTS

SEPTEMBER 21, 2021

REVISIONS THROUGH NOVEMBER 15, 2021



APPLICANT:

ZP BATTERY DEVCO, LLC
BRENDON GOVE
10 E. WORCESTER STREET, SUITE 3A
WORCESTER, MASSACHUSETTS 01604

OWNER:

WR ENTERPRISES, LLC
1323 MAIN STREET
LEICESTER, MASSACHUSETTS 01420

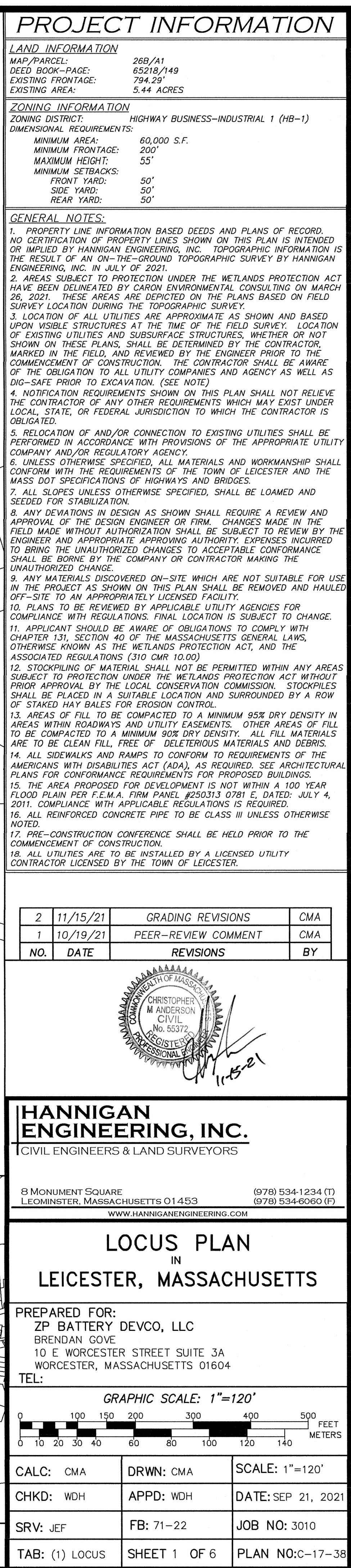
CIVIL ENGINEER & LAND SURVEYOR:

HANNIGAN ENGINEERING, INC.
8 MONUMENT SQUARE
LEOMINSTER, MASSACHUSETTS 01453
TEL: (978) 534-1234

PLAN INDEX

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SHEET 2	INDEX PLAN
SHEET 3	EXISTING CONDITIONS PLAN
SHEET 4	SITE DEVELOPMENT PLAN
SHEETS 5-6	CONSTRUCTION DETAILS

PERMITTING SET - NOT FOR CONSTRUCTION



PROJECT INFORMATION

LAND INFORMATION	
MAP/PARCEL:	26B/A1
DEED BOOK-PAGE:	65218/149
EXISTING FRONTAGE:	794.29'
EXISTING AREA:	5.44 ACRES
ZONING INFORMATION	
ZONING DISTRICT:	HIGHWAY BUSINESS-INDUSTRIAL 1 (HB-1)
DIMENSIONAL REQUIREMENTS:	
MINIMUM AREA:	60,000 S.F.
MINIMUM FRONTAGE:	200'
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MINIMUM SETBACKS:	
FRONT YARD:	50'
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- GENERAL NOTES:
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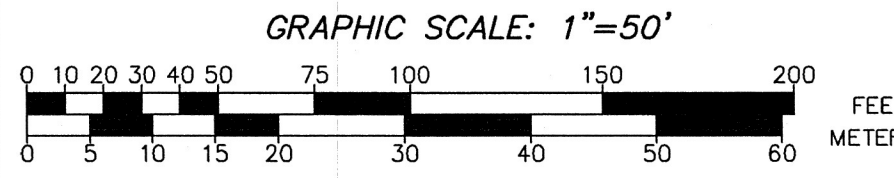


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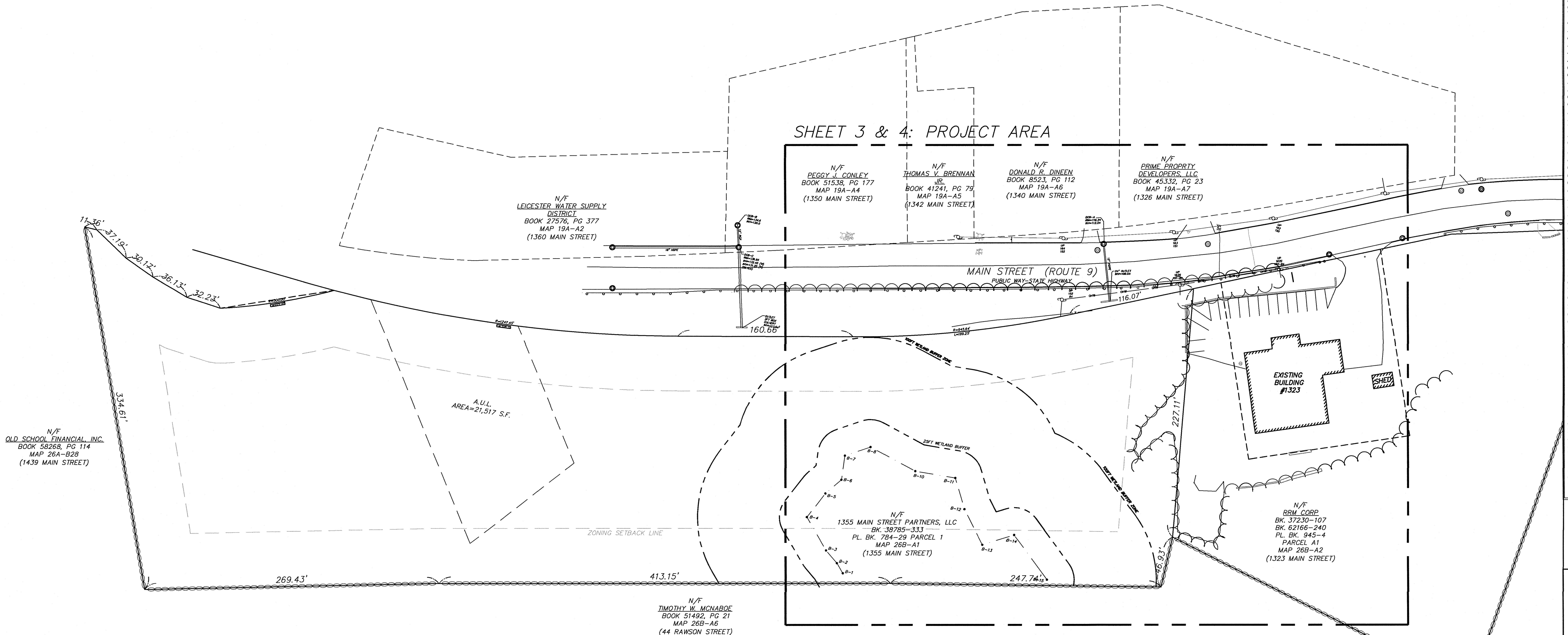
INDEX PLAN
IN
LEICESTER, MASSACHUSETTS

PREPARED FOR:
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10 E WORCESTER STREET SUITE 3A
WORCESTER, MASSACHUSETTS 01604
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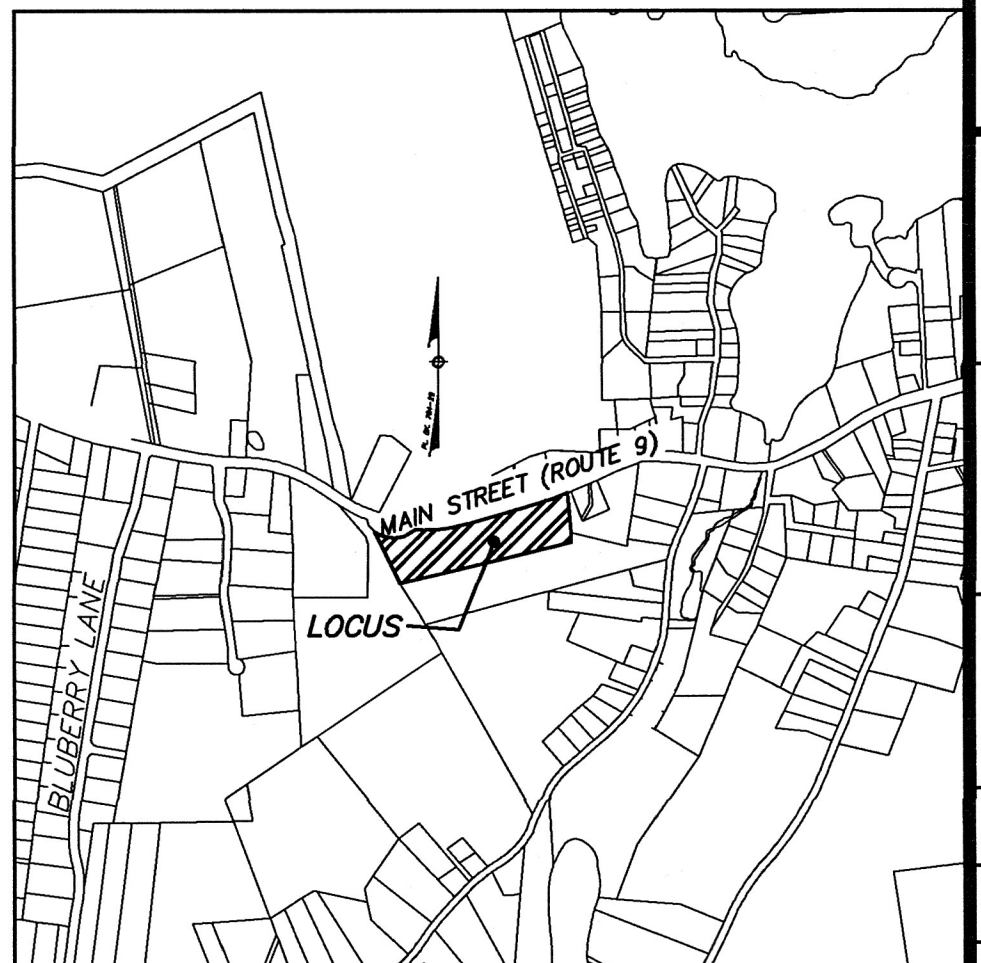


CALC: CMA	DRWN: CMA	SCALE: 1"=50'
CHKD: WDH	APPD: WDH	DATE: SEP 21, 2021
SRV: JEF	FB: 71-22	JOB NO: 3010
TAB: (2) INDEX	SHEET 2 OF 6	PLAN NO: C-17-38

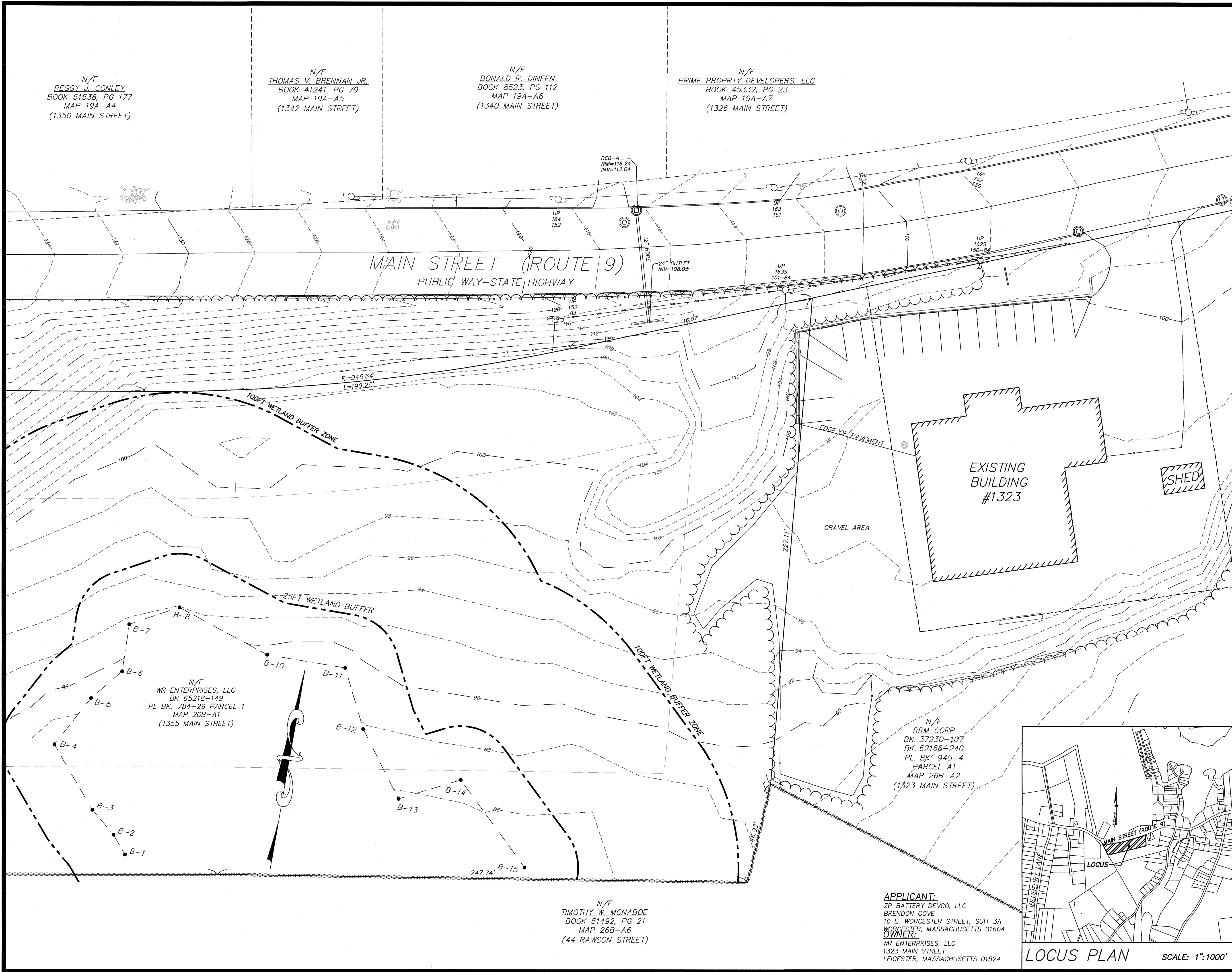
SHEET 3 & 4: PROJECT AREA



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LOCUS PLAN SCALE: 1"=1000'



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David LeRoy 10-22-21

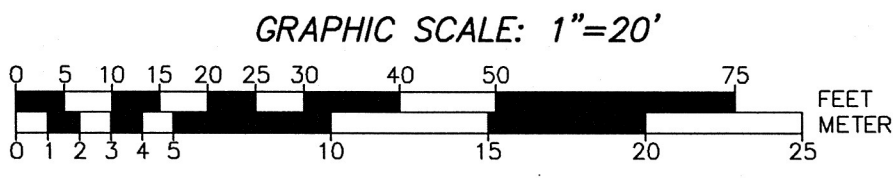
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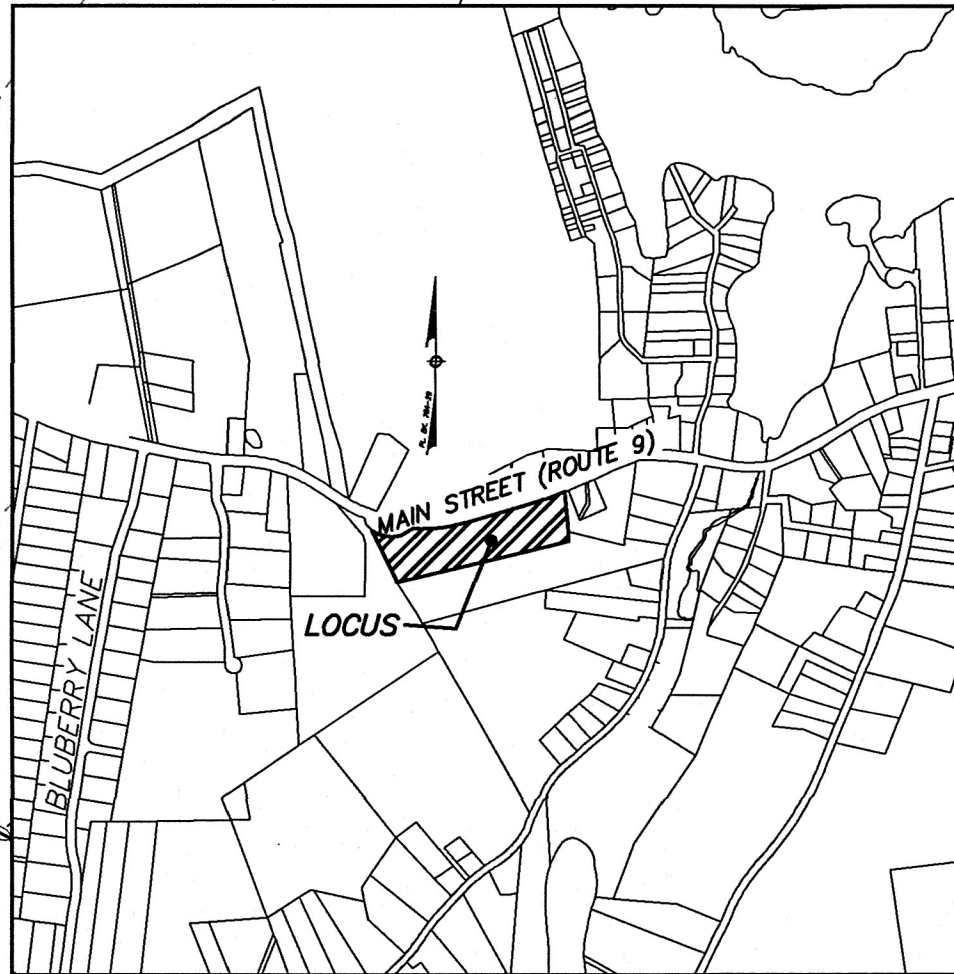
(978) 534-1234 (T)
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EXISTING CONDITIONS PLAN
IN
LEICESTER, MASSACHUSETTS

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TEL:



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TAB:	(3) EXCOND	SHEET	3 OF 6	PLAN NO:	C-17-38



LOCUS PLAN SCALE: 1"=1000'

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N/F
TIMOTHY W. MCNABOE
BOOK 51492, PG 21
MAP 26B-A6
(44 RAWSON STREET)

N/F
RRM CORP
BK. 37230-107
BK. 62166-240
PL. BK. 945-4
PARCEL A1
MAP 26B-A2
(1323 MAIN STREET)

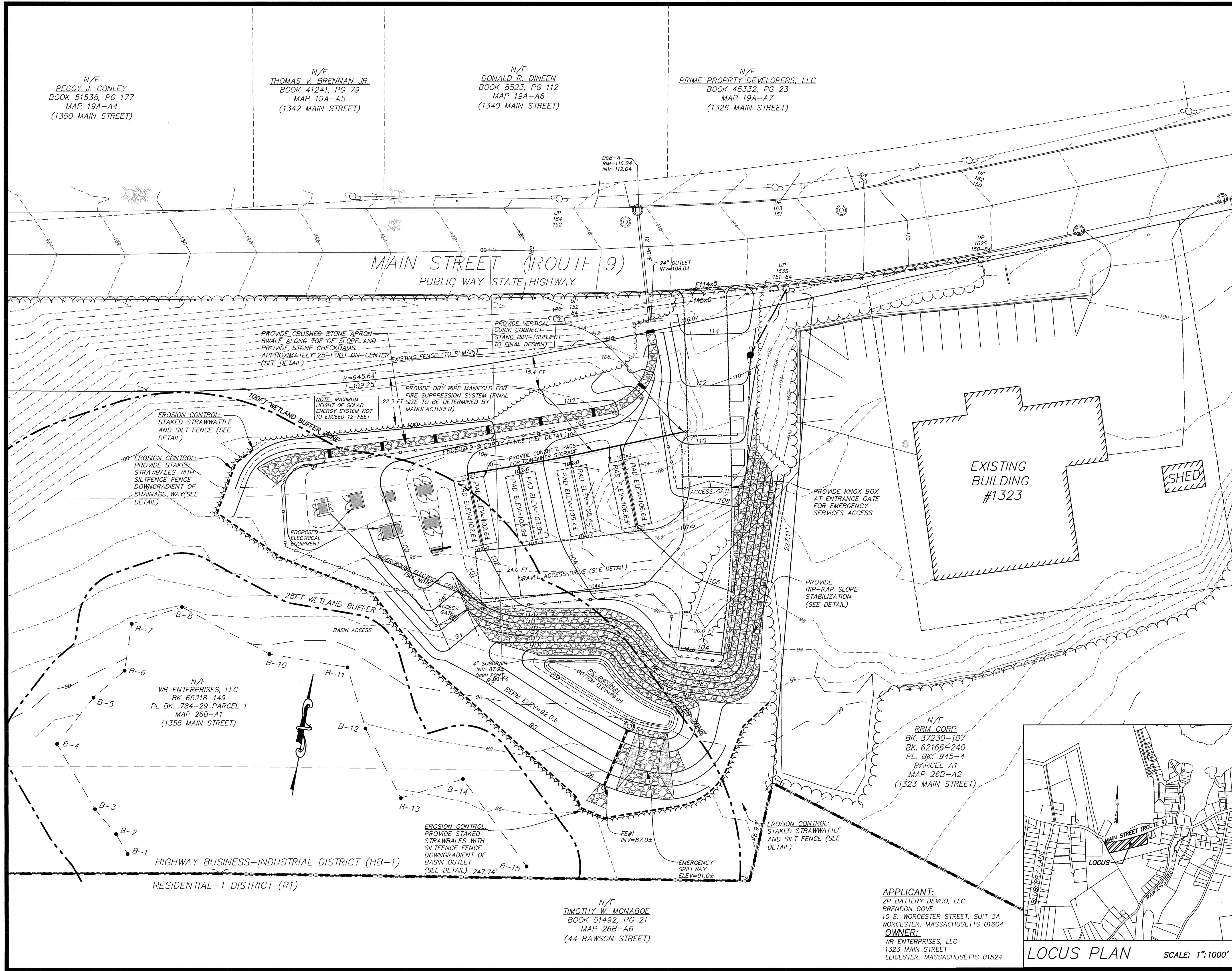
N/F
WR ENTERPRISES, LLC
BK 65218-149
PL BK. 784-29 PARCEL 1
MAP 26B-A1
(1355 MAIN STREET)

N/F
PEGGY J. CONLEY
BOOK 51538, PG 177
MAP 19A-A4
(1350 MAIN STREET)

N/F
THOMAS V. BRENNAN JR.
BOOK 41241, PG 79
MAP 19A-A5
(1342 MAIN STREET)

N/F
DONALD R. DINEEN
BOOK 8523, PG 112
MAP 19A-A6
(1340 MAIN STREET)

N/F
PRIME PROPERTY DEVELOPERS, LLC
BOOK 45332, PG 23
MAP 19A-A7
(1326 MAIN STREET)



PROJECT INFORMATION

LAND INFORMATION

MAP/PARCEL: 26B/A1
DEED BOOK-PAGE: 65218/149
EXISTING FRONTAGE: 794.29'
EXISTING AREA: 5.44 ACRES

ZONING INFORMATION

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SITE DEVELOPMENT PLAN IN LEICESTER, MASSACHUSETTS

PREPARED FOR:
ZP BATTERY DEVCO, LLC
BRENDAN GOVE
10 E. WORCESTER STREET SUITE 3A
WORCESTER, MASSACHUSETTS 01604
TEL:

GRAPHIC SCALE: 1"=20'
0 5 10 15 20 25 30 40 50 75 FEET
0 1 2 3 4 5 10 15 20 25 METERS

CALC: CMA	DRWN: CMA	SCALE: 1"=20'
CHKD: WDH	APPD: WDH	DATE: SEP 21, 2021
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TAB: (4) SDP	SHEET 4 OF 6	PLAN NO: C-17-38

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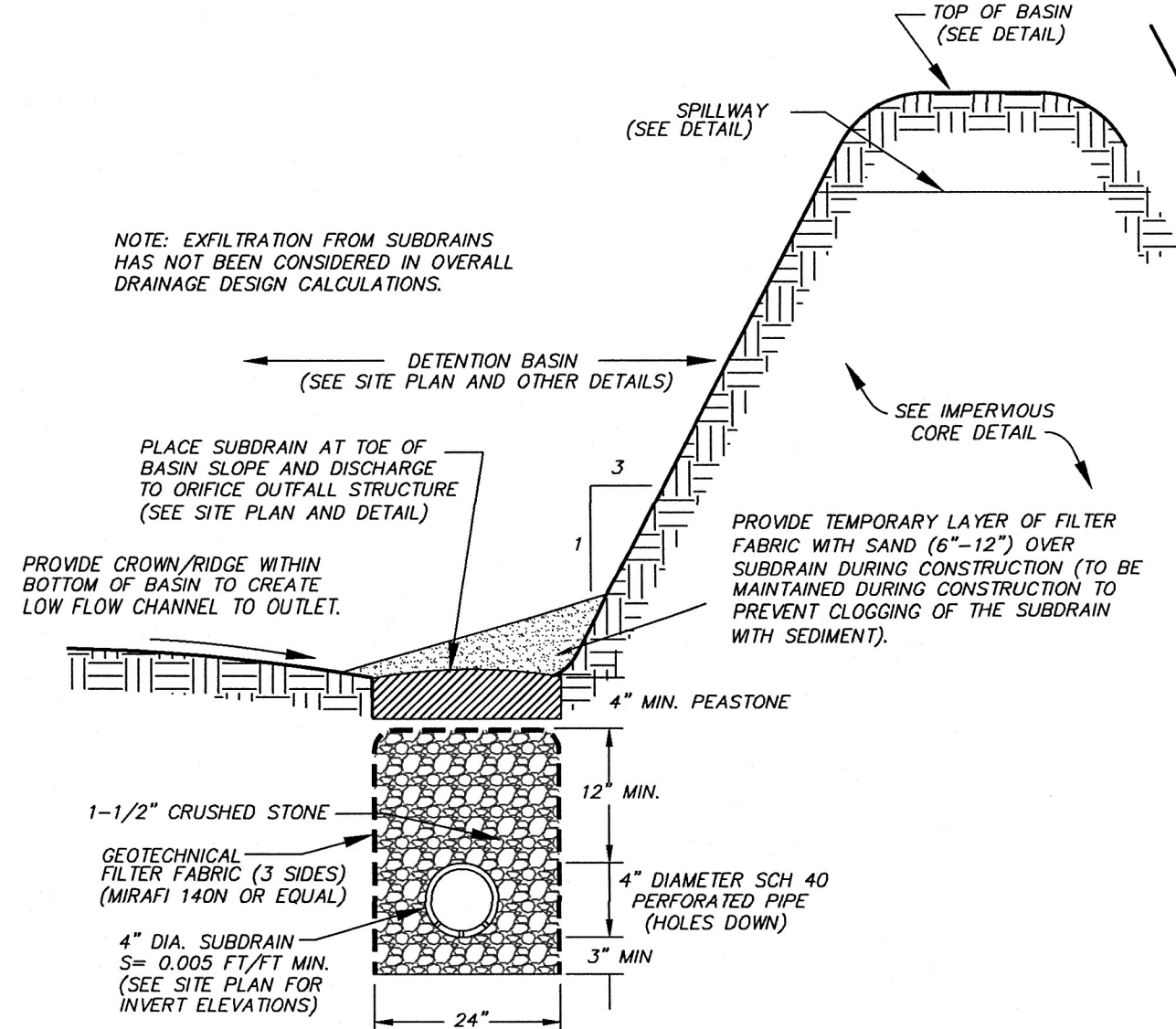
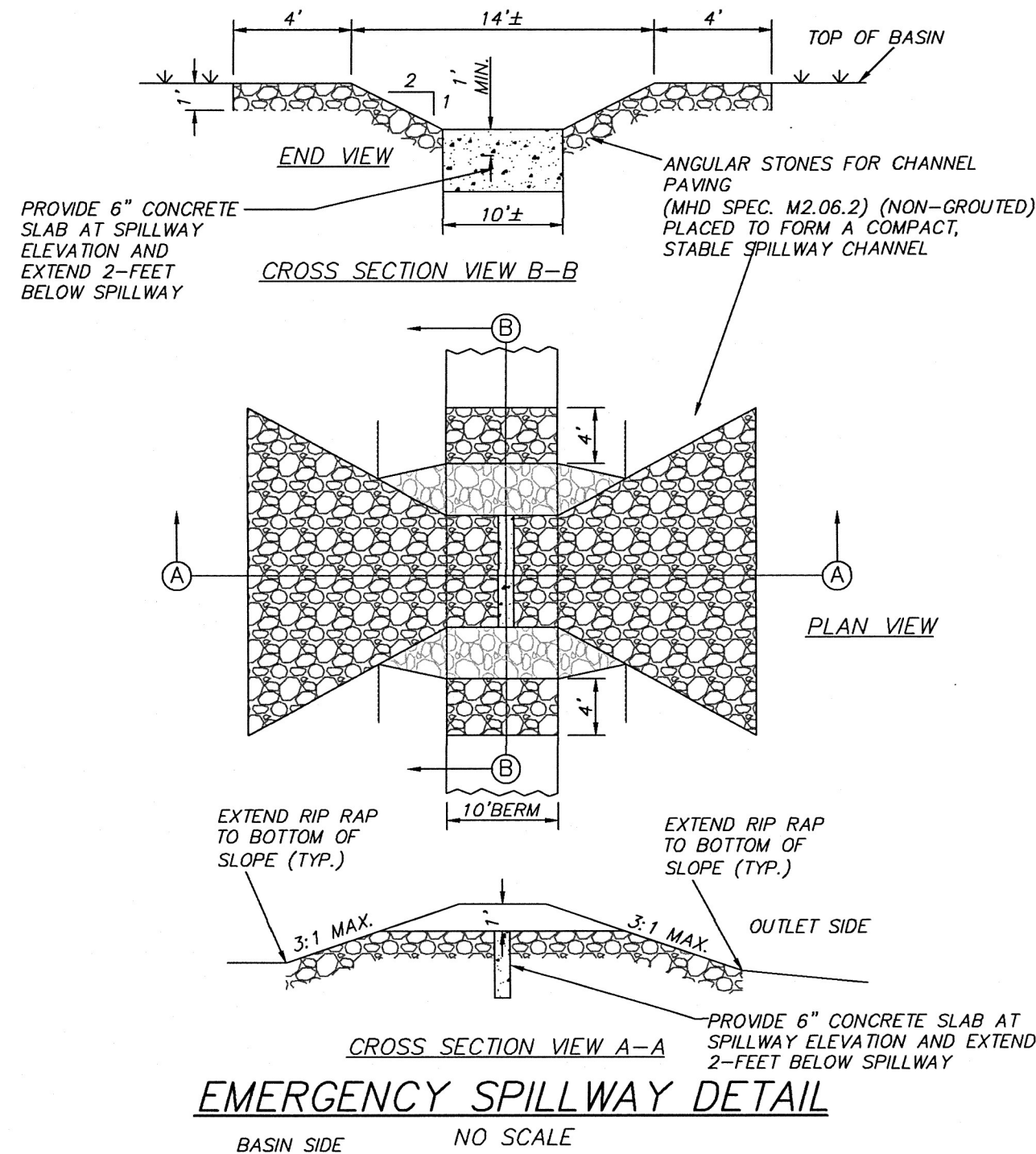
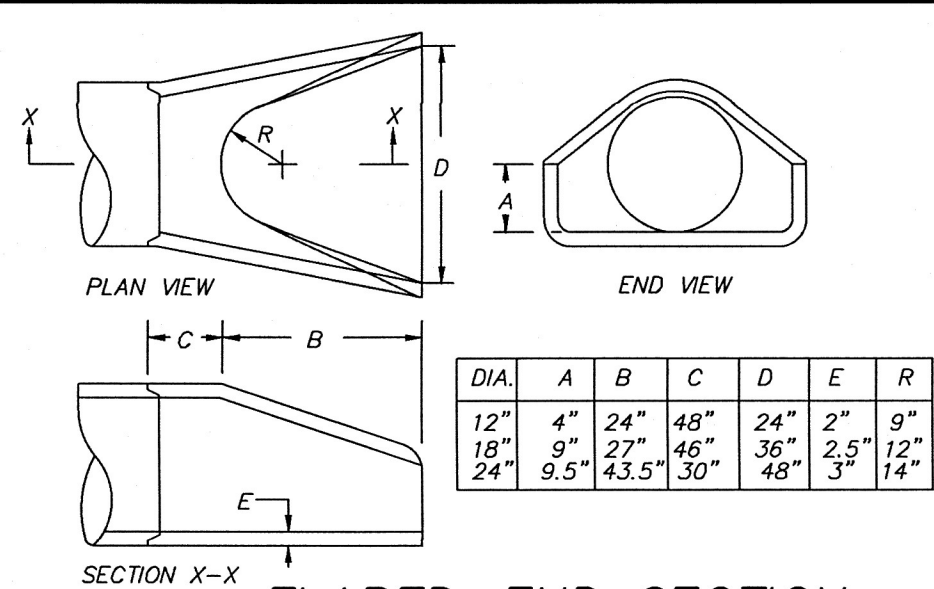
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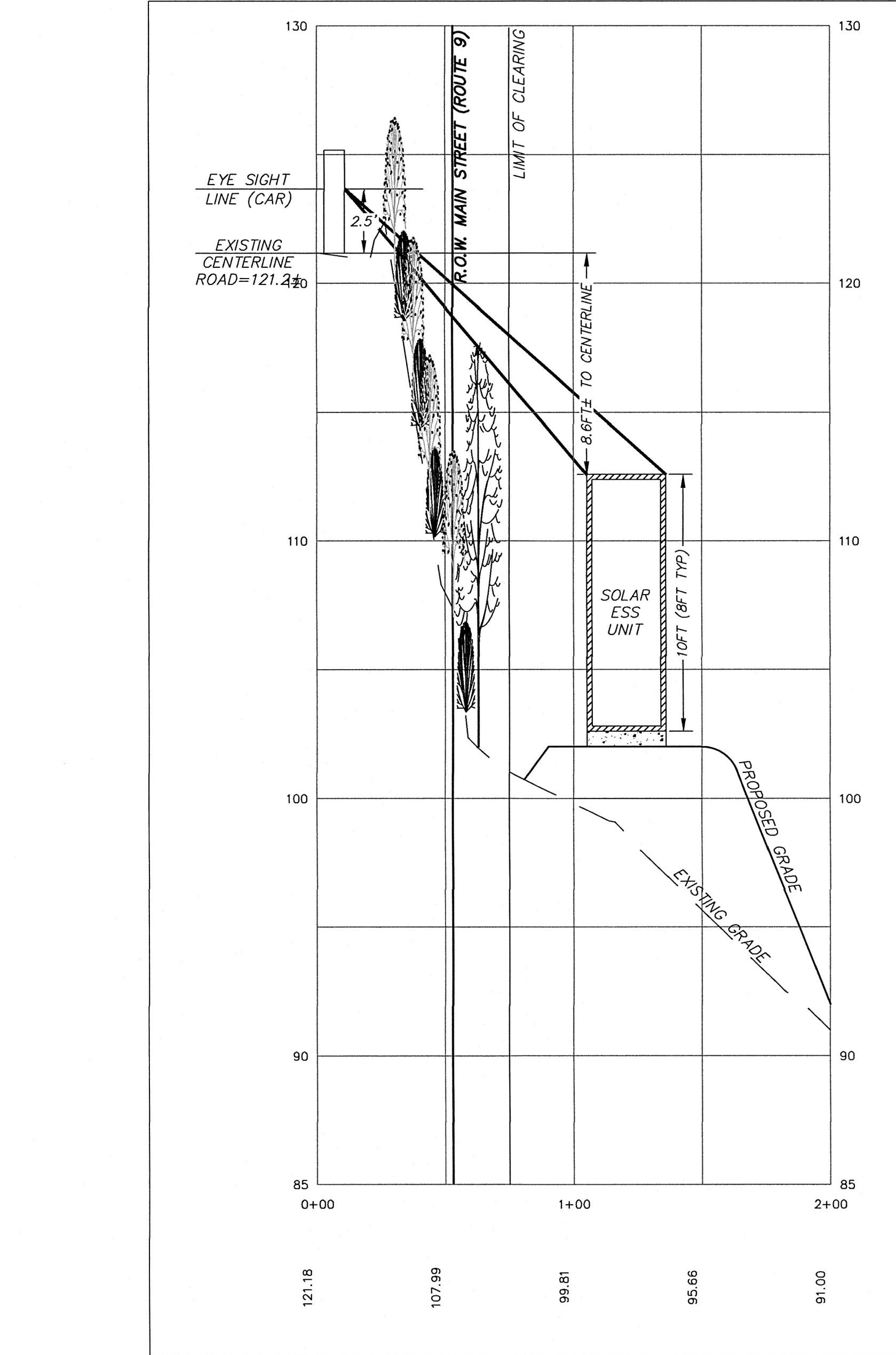
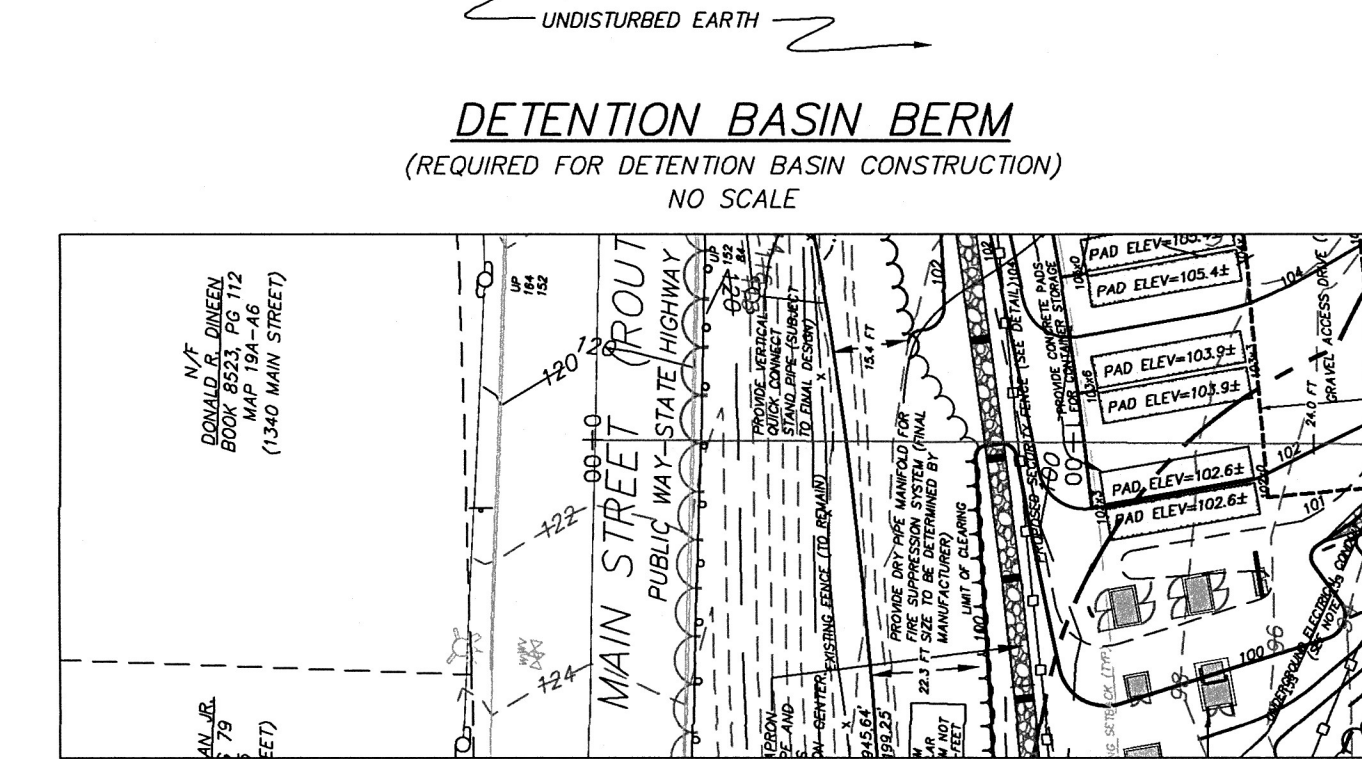
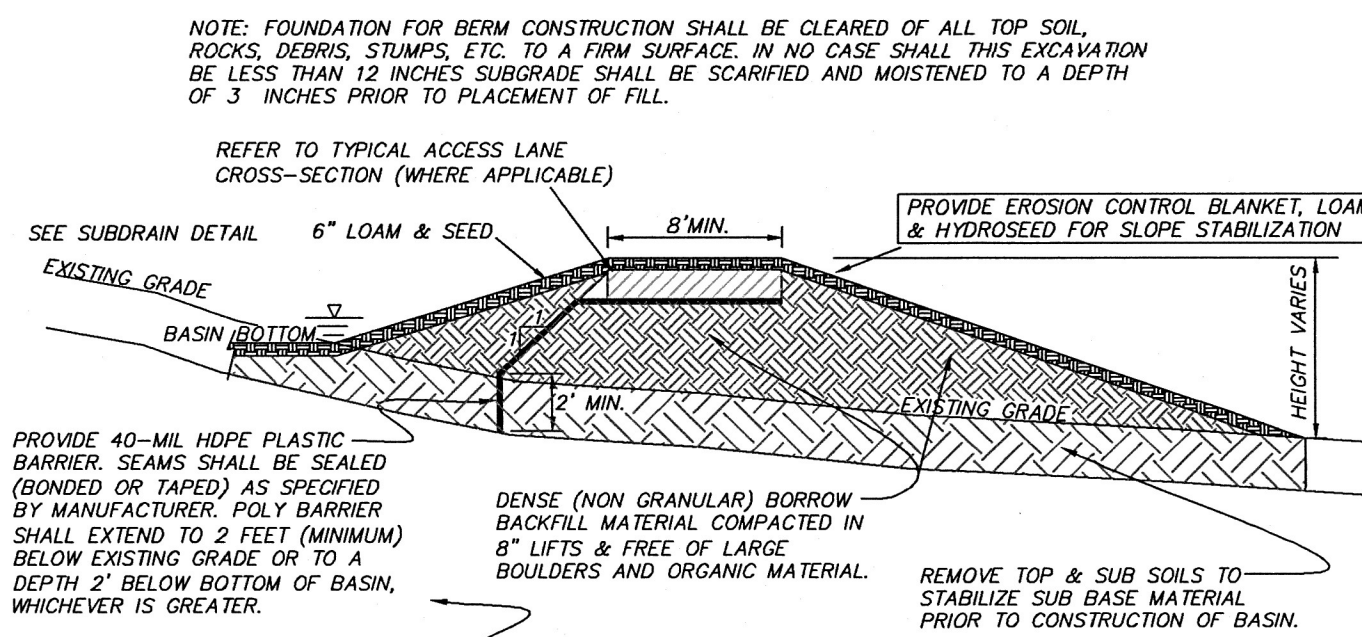
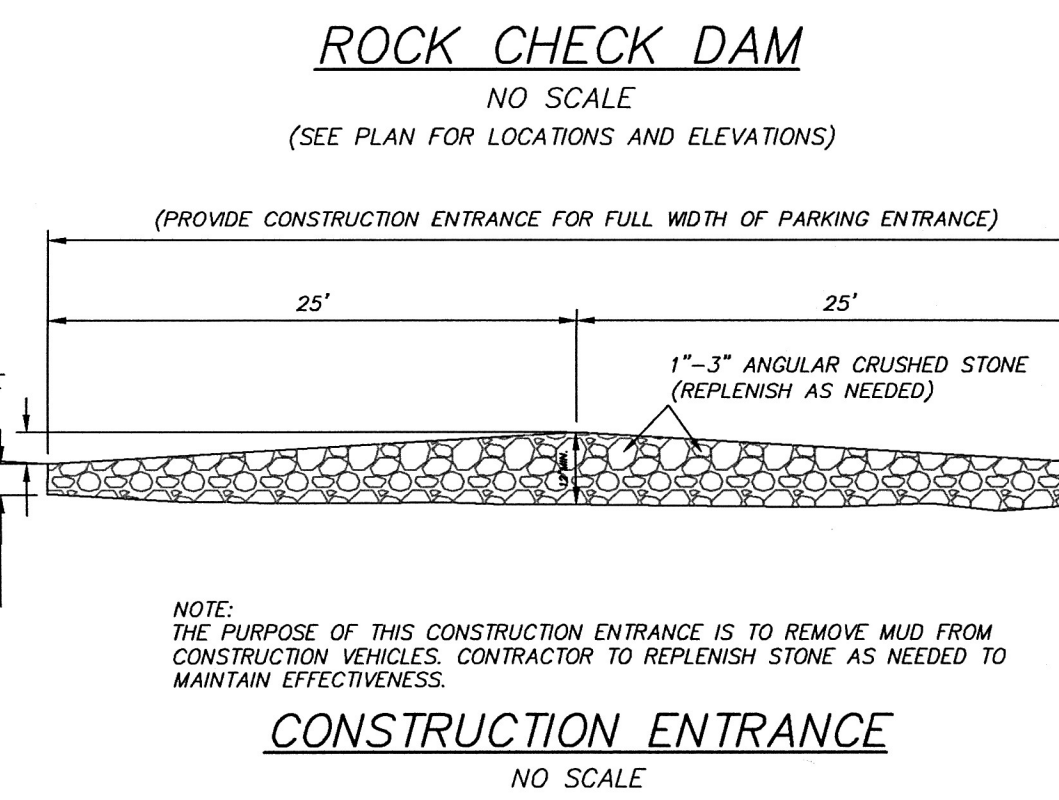
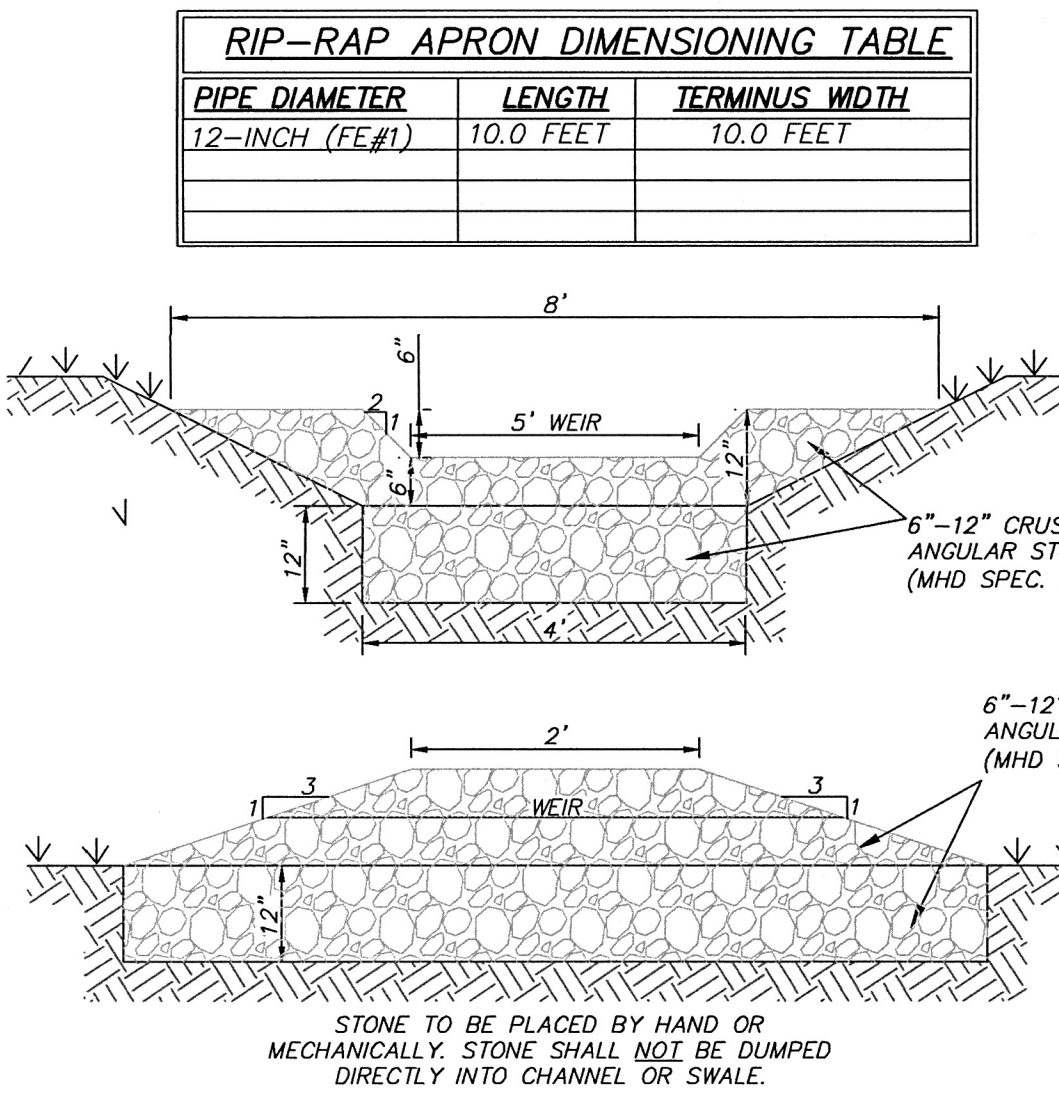
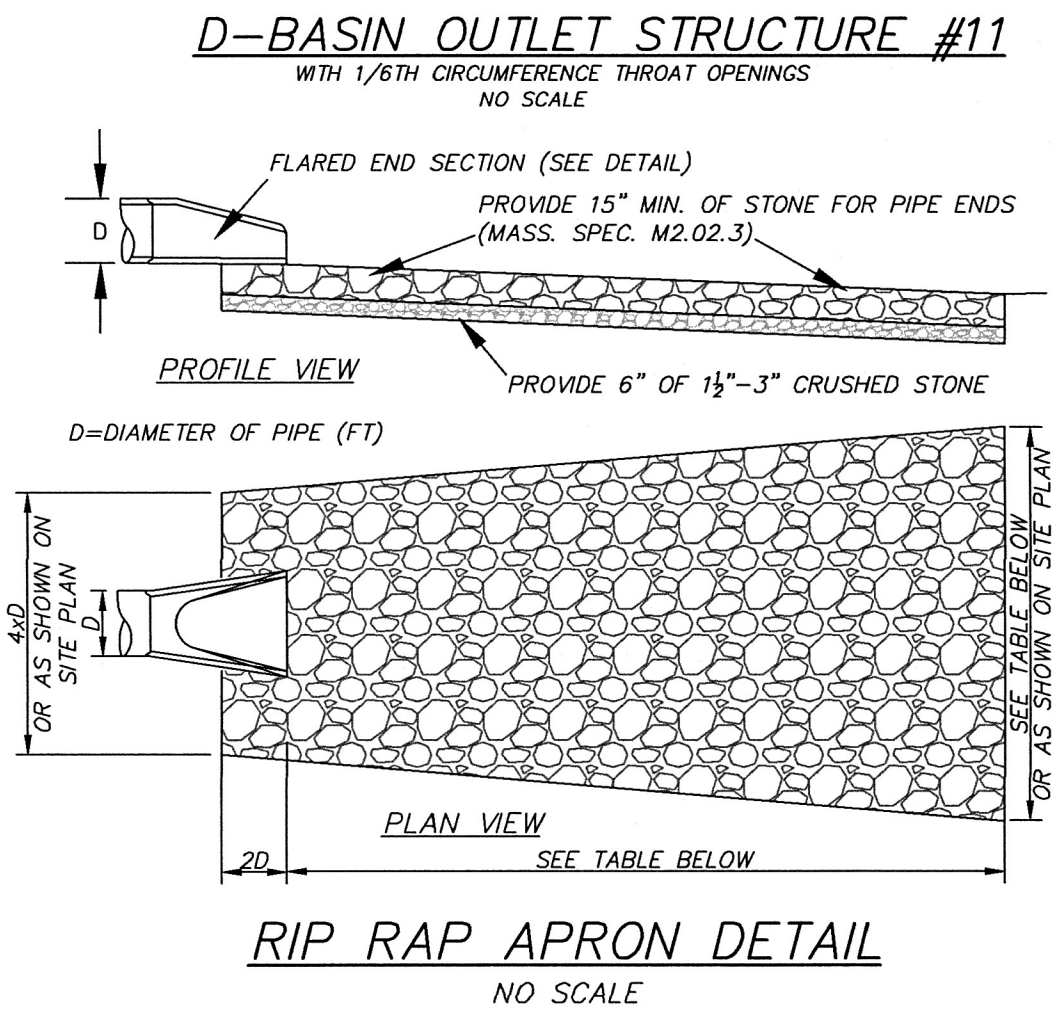
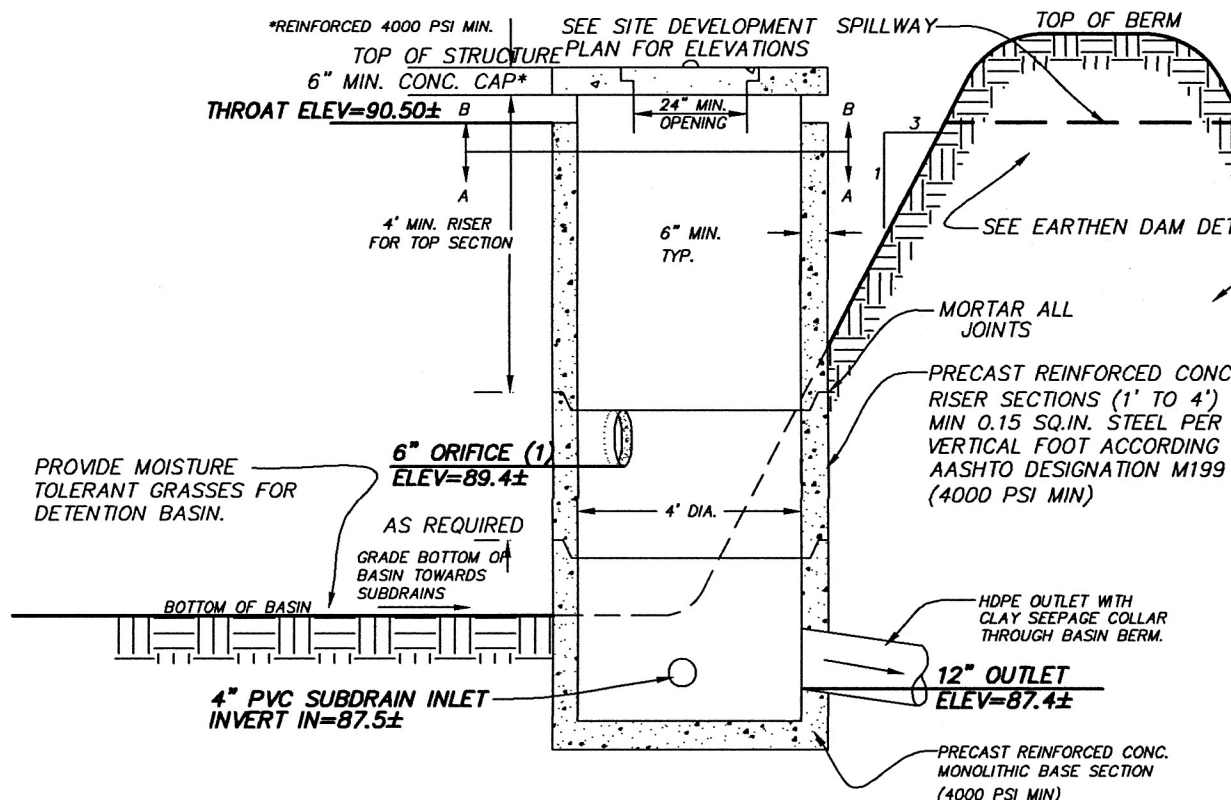
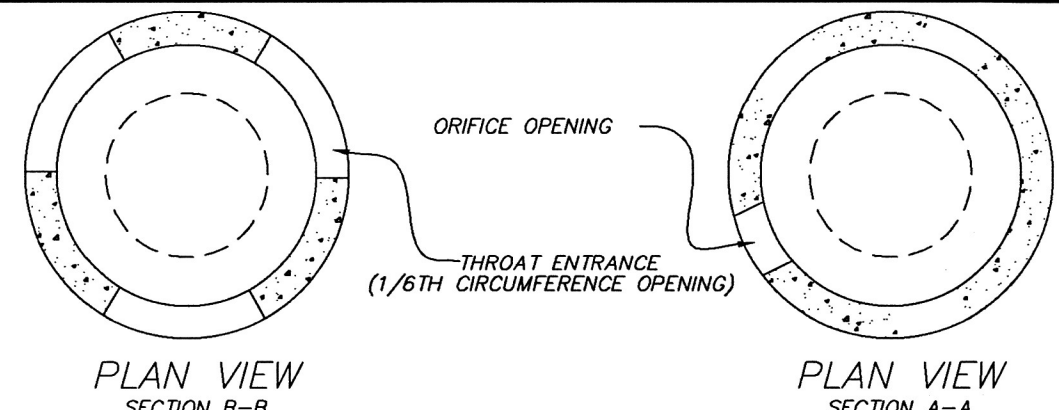
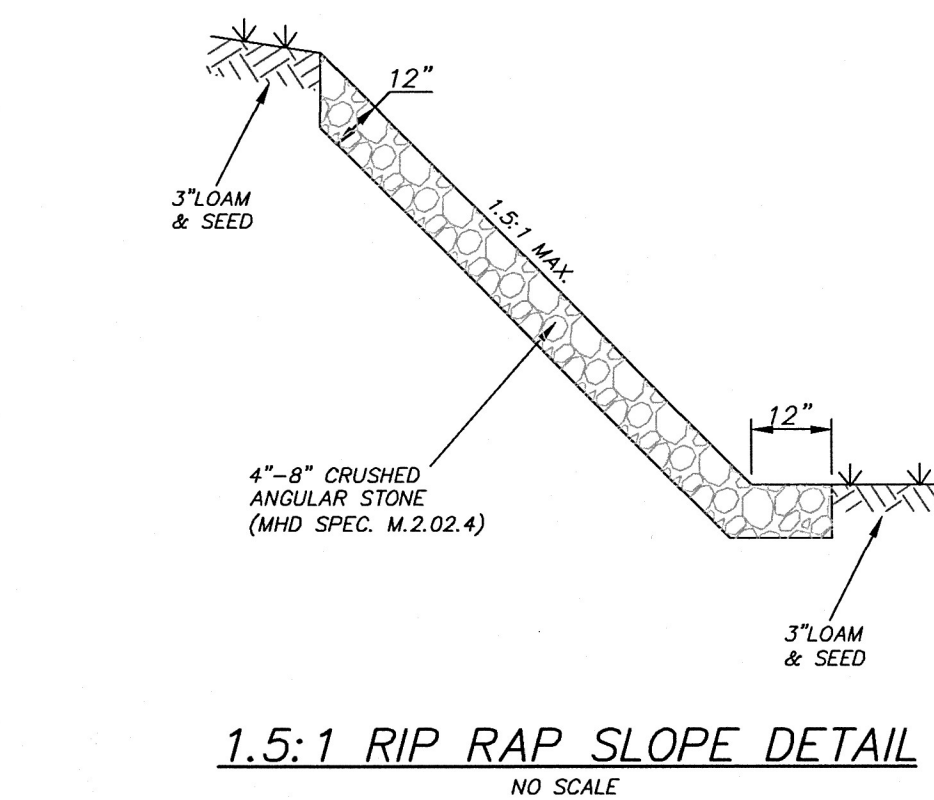
N/F
PRIME PROPERTY DEVELOPERS, LLC
BOOK 45332, PG 23
MAP 19A-A7
(1326 MAIN STREET)

N/F
THOMAS V. BRENNAN JR.
BOOK 41241, PG 79
MAP 19A-A5
(1342 MAIN STREET)

N/F
PEGGY J. CONLEY
BOOK 51538, PG 177
MAP 19A-A4
(1350 MAIN STREET)



DETENTION BASIN 4"-SUBDRAIN DETAIL
NO SCALE



PROJECT SIGHT LINE
HORIZONTAL SCALE=1": 40' VERTICAL SCALE=1": 4'

STORMWATER OPERATION AND MAINTENANCE PLAN

THE FOLLOWING SHALL BE CONSIDERED THE OPERATION & MAINTENANCE PLAN (OMP) FOR THE STORMWATER COLLECTION FACILITY FOR THIS DEVELOPMENT. THIS OMP HAS BEEN PREPARED IN ACCORDANCE WITH THE STORMWATER MANAGEMENT POLICY AS ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

I. SYSTEM OWNERSHIP

THE SYSTEM SHALL INCLUDE THE DRAINAGE INFRASTRUCTURE AND ALL OF ITS COMPONENTS AS SHOWN ON THE SITE DEVELOPMENT PLANS, INCLUDING THE DETENTION FACILITIES AND OUTFALL AREAS OF THE DRAINAGE SYSTEM. THE STRUCTURES OF THE SYSTEM SHALL INCLUDE THE DRAINAGE SWALES AND THE OUTFALL & CONTROL STRUCTURES. THE SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION DETAILS AND THE APPROVED PLANS.

UPON THE COMPLETION OF CONSTRUCTION THE DRAINAGE SYSTEM DESCRIBED ABOVE AND AS DEPICTED ON THE SITE PLANS SHALL BECOME PROPERTY OF THE LAND OWNER, WITH SPECIFIC EASEMENT RIGHTS TO THE OPERATOR OF THE SOLAR SYSTEM TO MAINTAIN THE DRAINAGE SYSTEM AS DEPICTED ON THE APPROVED PLANS. SAID EASEMENT RIGHTS SHALL BE SPECIFICALLY DESCRIBED IN LEASE DOCUMENTS FOR THE PROJECT.

II. RESPONSIBLE PARTIES

THE OPERATOR OF THE SOLAR SYSTEM SHALL BE CONSIDERED THE RESPONSIBLE PARTY FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM. THE SYSTEM SHALL INCLUDE THE DRAINAGE INFRASTRUCTURE AND ALL OF ITS COMPONENTS AS SHOWN ON THE APPROVED PLANS. THE SYSTEM SHALL ALSO INCLUDE THE DETENTION FACILITIES AND THE OUTFALL AREAS OF THE DRAINAGE SYSTEM.

III. INSPECTION & MAINTENANCE SCHEDULE

THE FOLLOWING MAINTENANCE SCHEDULE SHALL BE FOLLOWED IN ORDER TO MAINTAIN THE EFFECTIVENESS OF THE STORMWATER MANAGEMENT SYSTEM.

STRUCTURE TYPE	INSPECTION	MAINTENANCE	TASK
RIP/RAP APRONS	TWICE A YEAR	EVERY 10 YEARS	REMOVE DEBRIS & ADD STONE
SUBDRAINS	TWICE A YEAR	EVERY 4 YEARS	REPLACE PEASTONE
DETENTION BASINS	MONTHLY (MAY-OCT)	MONTHLY (MAY-OCT)	MOW GRASS AREAS & REMOVE DEBRIS
OUTFALL STRUCTURES:			
SPILLWAYS	TWICE A YEAR	EVERY 10 YEARS	REMOVE SEDIMENT IF PRESENT REMOVE DEBRIS & ADD STONE

NOTE: THE DETENTION BASINS ON THIS PROJECT MAY GROW VEGETATION IN THE BOTTOM WHICH MAY INCLUDE SPECIES PART OF THE WETLAND PROTECTION ACT. THESE PLANTS SHALL NOT BE CONSTRUED AS HAVING PROTECTION UNDER THE ACT AND SHALL BE CONSIDERED OPPORTUNISTIC GROWTH PLANTS. ADDITIONALLY, THIS AREA SHALL NOT BE CONSIDERED A CONSTRUCTED WETLAND.

SEEDING OPERATION AND MAINTENANCE PLAN

I. RESPONSIBLE PARTIES

THE OPERATOR OF THE SOLAR SYSTEM SHALL BE CONSIDERED THE RESPONSIBLE PARTY FOR THE OPERATION AND MAINTENANCE OF THE GRASS & VEGETATION. THE VEGETATION SHALL INCLUDE ALL OF ITS AREAS AS SHOWN ON THE APPROVED PLANS. THE SYSTEM SHALL ALSO INCLUDE THE GRASSED AREAS AROUND THE PANELS AND DRAINAGE STRUCTURES.

II. INSPECTION & MAINTENANCE SCHEDULE

THE FOLLOWING MAINTENANCE SCHEDULE SHALL BE FOLLOWED IN ORDER TO MAINTAIN THE VEGETATED AREAS

ACTIVITY	MAINTENANCE	TASK
GRASS CUTTING	MONTHLY	GRASS HEIGHT TO BE ALLOWED TO GROW TO A HEIGHT OF NO MORE THAN 18 INCHES AND BE CUT TO A HEIGHT OF 4 TO 6 INCHES.

III. APPROPRIATE SEED MIX AND APPLICATION RATES

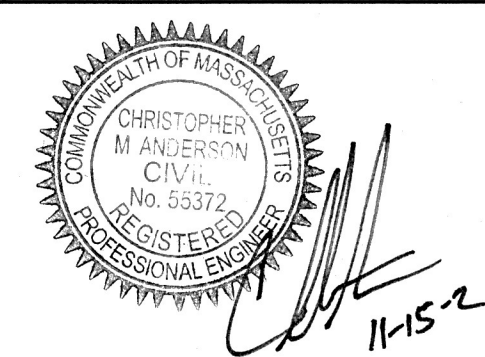
THE FOLLOWING SEED SCHEDULE SHALL BE FOLLOWED IN ORDER TO PROPERLY MAINTAIN VEGETATED AREAS

SEED TYPE (NATIVE SEED REQUIRED)	APPLICATION RATE	% OF MIX
WILDFLOWER SEED MIX	5 TO 10 POUNDS PER ACRE	50%
WHITE CLOVER SEED MIX	3 TO 5 POUNDS PER ACRE	10%
KENTUCKY BLUEGRASS	80 TO 100 POUNDS PER ACRE	40%

IV. HERBICIDES & PESTICIDES

THERE WILL NO HERBICIDES OR PESTICIDES USED ON THIS PROJECT.

2	11/15/21	GRADING REVISIONS	CMA
1	10/19/21	PEER-REVIEW COMMENT	CMA
NO.	DATE	REVISIONS	BY



HANNIGAN ENGINEERING, INC.

CIVIL ENGINEERS & LAND SURVEYORS

8 MONUMENT SQUARE
LEOMINSTER, MASSACHUSETTS 01453
WWW.HANNIGANENGINEERING.COM

(978) 534-1234 (T)
(978) 534-6060 (F)

CONSTRUCTION DETAILS IN LEICESTER, MASSACHUSETTS

PREPARED FOR:
ZP BATTERY DEVCO, LLC
BRENDON GOVE
10 E WORCESTER STREET SUITE 3A
WORCESTER, MASSACHUSETTS 01604
TEL:

CALC: CMA	DRWN: CMA	SCALE: NA
CHKD: WDH	APPD: WDH	DATE: SEP 21, 2021
SRV: JEF	FB: 71-22	JOB NO: 3010
TAB: (5-6) DET	SHEET 6 OF 6	PLAN NO: C-17-38

APPLICANT:
ZP BATTERY DEVCO, LLC
BRENDON GOVE
10 E. WORCESTER STREET, SUIT 3A
WORCESTER, MASSACHUSETTS 01604
OWNER:
WR ENTERPRISES, LLC
1323 MAIN STREET
LEICESTER, MASSACHUSETTS 01524