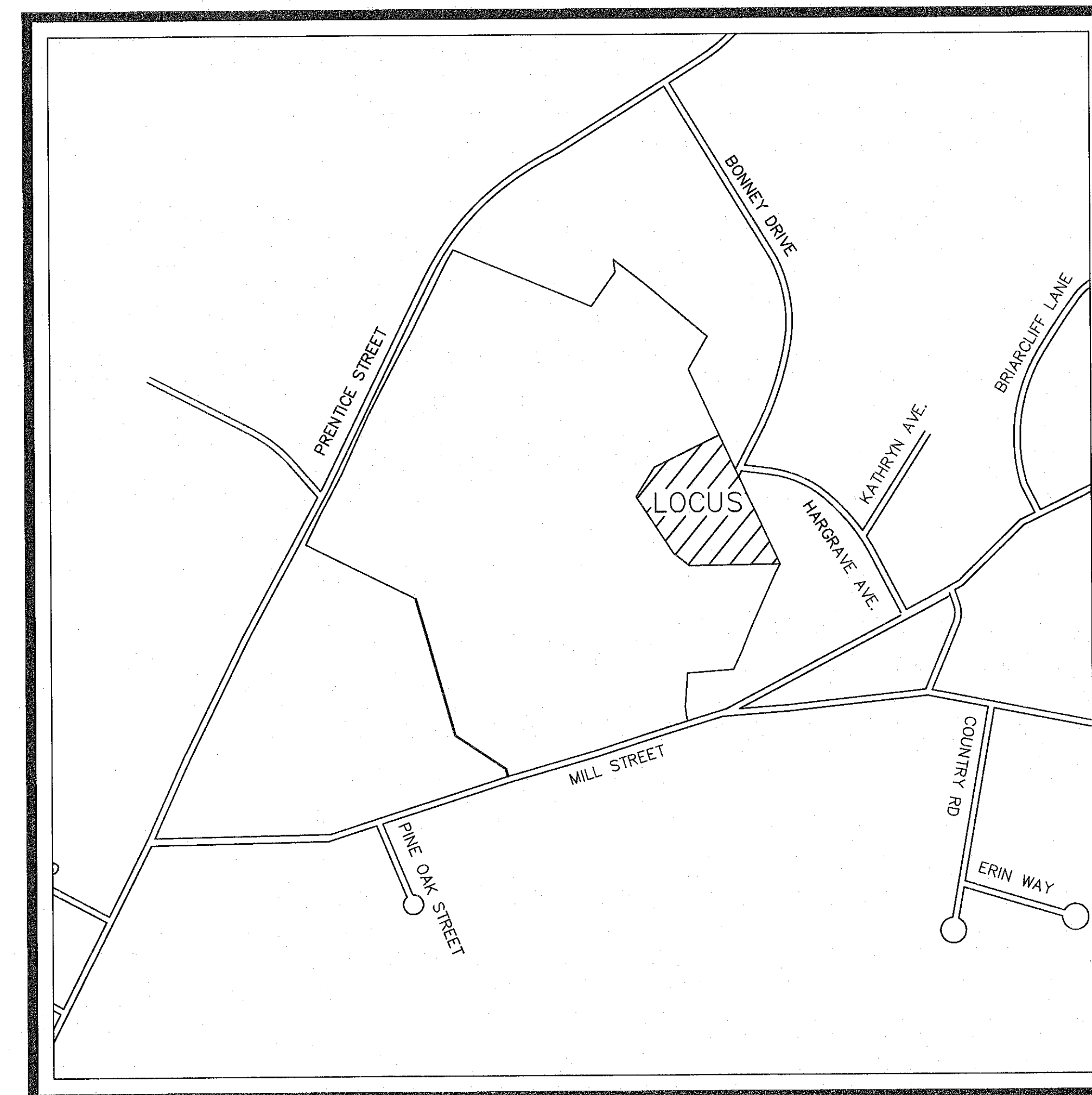


DEFINITIVE OPEN SPACE SUBDIVISION "BONNEY DRIVE EXTENSION" A 3 LOT SINGLE FAMILY RESIDENTIAL SUBDIVISION HOLLISTON, MASSACHUSETTS

DATE: AUG. 29, 2023
REVISED: JAN. 17, 2024



LOCUS MAP

SCALE: 1"=600'

ASSESSOR'S REFERENCE:
MAP 7, BLOCK 4, PARCEL 55.D

DEED REFERENCE:
MIDDLESEX COUNTY REGISTRY OF DEEDS
Bk. 70305, Pg. 336

PLAN REFERENCE:
MIDDLESEX COUNTY REGISTRY OF DEEDS
1. PLAN No. 753 OF 2015
2. PLAN No. 834 OF 2012
3. PLAN No. 142 OF 2001, Bk. 32361, Pg. 140
4. PLAN No. 402 OF 1998, Bk. 28461, Pg. 37

OWNER OF RECORD:
THOMAS MURCH et.al. TRUSTEE
MURCH PRENTICE REALTY TRUST
5855 LYMAN ROAD
TURIN, NY 13473

ZONING CLASSIFICATION:
AG-RES DIST B
GROUNDWATER PROTECTION DISTRICT - ZONE II
LOT AREA: 40,000 S.F.
FRONTAGE: 200 FT.
DEPTH: 180 FT.
SETBACKS:
FRONT: 40'
SIDE: 30'
REAR: 40'

OPEN SPACE INTENSITY REGULATIONS:
AG-RES DIST B
LOT AREA: 15,000 S.F.
FRONTAGE: 50 FT.
DEPTH: N.A.
LOT WIDTH: N.A.
SETBACKS:
FRONT: 30'
SIDE: 10'
REAR: 10'

OPEN SPACE REQUIREMENTS:

TOTAL LAND AREA: 337,650 s.f. (7.75 Acres)
OPEN SPACE AREA REQUIRED: (50%) 168,825 s.f. (3.9 Acres)
OPEN SPACE AREA PROVIDED:
170,851 s.f. (3.92 Acres)
UPLAND AREA: 86,450 S.F. (50.6%)

OWNER/APPLICANT:
THOMAS MURCH et.al. TRUSTEE
MURCH PRENTICE REALTY TRUST
5855 LYMAN ROAD
TURIN, NY 13473

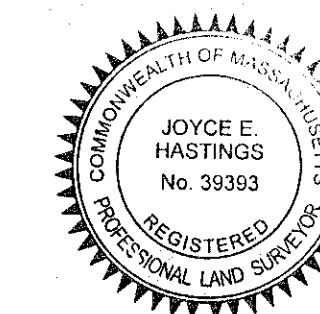
PREPARED BY:
GLM ENGINEERING
CONSULTANTS, INC.
19 EXCHANGE STREET
HOLLISTON, MASSACHUSETTS 01746
(508)429-1100 fax:(508)429-7160

APPROVED BY
HOLLISTON PLANNING BOARD:

APPROVED BY: _____
ENDORSED BY: _____

I CERTIFY THAT THIS PLAN CONFORMS TO THE
RULES & REGULATIONS OF THE REGISTER OF DEEDS.

THIS PLAN WAS PREPARED IN ACCORDANCE WITH
THE PROCEDURAL AND TECHNICAL STANDARDS FOR
THE PRACTICE OF LAND SURVEYING IN THE
COMMONWEALTH OF MASSACHUSETTS.



JOYCE E. HASTINGS P.L.S.

1/17/24
DATE

APPROVED _____ SUBJECT TO COVENANT
CONDITIONS SET FORTH IN A COVENANT EXECUTED
BY _____ DATED _____
AND TO BE RECORDED HERewith.

I, TOWN CLERK OF THE TOWN OF HOLLISTON,
RECEIVED & RECORDED FROM THE PLANNING
BOARD APPROVAL OF THIS PLAN AND NO
APPEAL HAS BEEN TAKEN FOR TWENTY DAYS
NEXT AFTER RECEIPT AND RECORDING OF SAME.

TOWN CLERK

DATE

SHEET INDEX

- | | |
|----|--------------------------|
| 1 | COVER |
| 2 | EXISTING CONDITIONS |
| 3 | OPEN SPACE LOT LAYOUT |
| 4 | CONVENTIONAL SUBDIVISION |
| 5 | GRADING & DRAINAGE |
| 6 | PLAN & PROFILE |
| 7 | EROSION CONTROL PLAN |
| 8 | DRAINAGE DETAILS |
| 9 | DETAILS |
| 10 | DETAILS |

JOB No.	7701DEF
SHEET:	1 of 10
PLAN #:	27,404

REGISTRY USE ONLY

ASSESSOR'S REFERENCE:
MAP 7, BLOCK 4, PARCEL 55.D

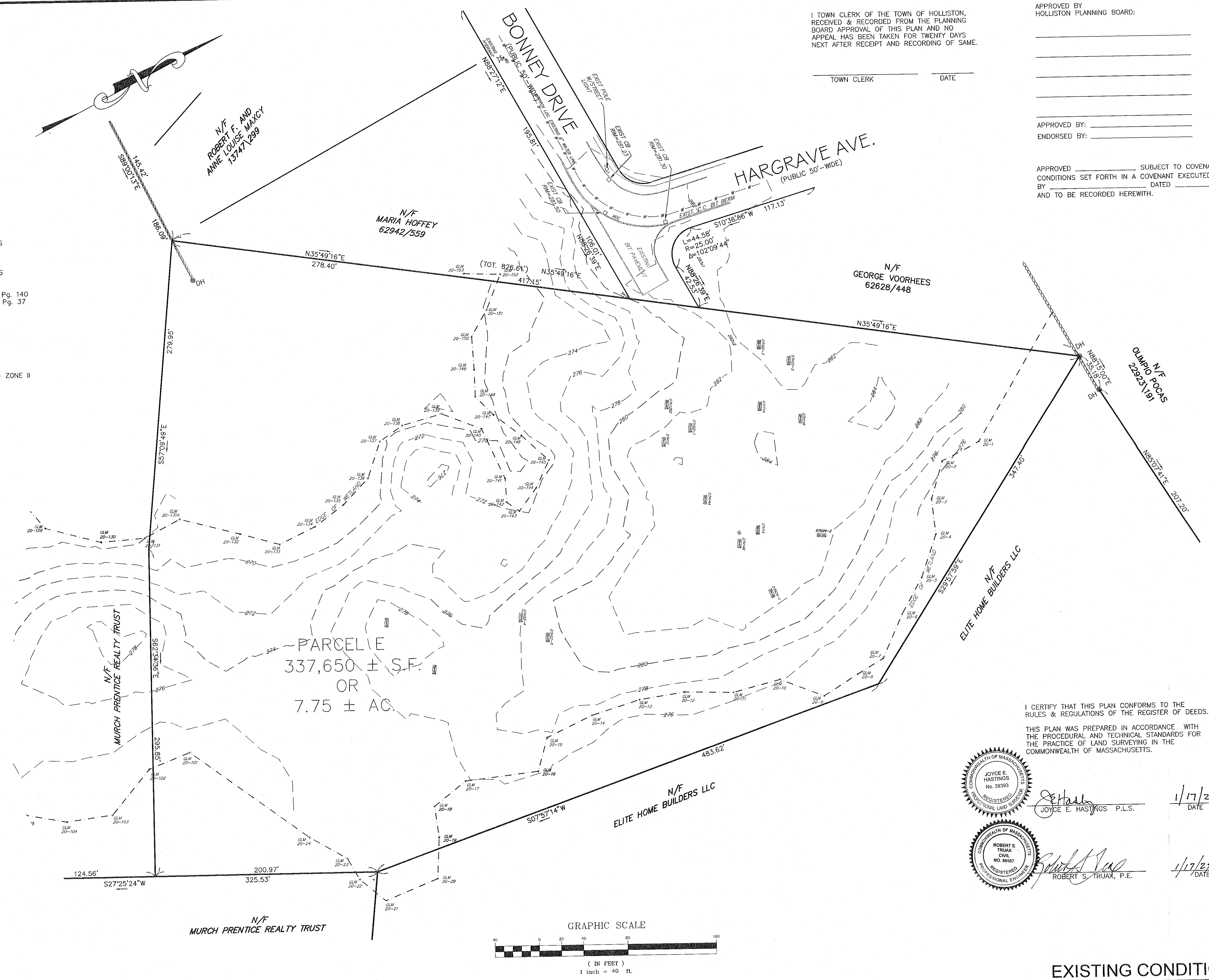
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OWNER OF RECORD:
THOMAS MURCH et.al. TRUSTEE
MURCH PRENTICE REALTY TRUST
5855 LYMAN ROAD
TURIN, NY 13473

ZONING CLASSIFICATION:
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GROUNDWATER PROTECTION DISTRICT - ZONE II
LOT AREA: 40,000 S.F.
FRONTAGE: 200 FT.
DEPTH: 180 FT.
SETBACKS:
FRONT: 40'
SIDE: 30'
REAR: 40'

OPEN SPACE INTENSITY REGULATIONS:
AG-RES DIST B
LOT AREA: 15,000 S.F.
FRONTAGE: 50 FT.
DEPTH: N.A.
LOT WIDTH: N.A.
SETBACKS:
FRONT: 30'
SIDE: 10'
REAR: 10'



I, TOWN CLERK OF THE TOWN OF HOLLISTON, RECEIVED & RECORDED FROM THE PLANNING BOARD APPROVAL OF THIS PLAN AND NO APPEAL HAS BEEN TAKEN FOR TWENTY DAYS NEXT AFTER RECEIPT AND RECORDING OF SAME.

TOWN CLERK _____ DATE _____

APPROVED BY: _____
ENDORSED BY: _____

APPROVED _____ SUBJECT TO COVENANT
CONDITIONS SET FORTH IN A COVENANT EXECUTED
BY _____ DATED _____
AND TO BE RECORDED HEREWITH.

I CERTIFY THAT THIS PLAN CONFORMS TO THE RULES & REGULATIONS OF THE REGISTER OF DEEDS.

THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE PROCEDURAL AND TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING IN THE COMMONWEALTH OF MASSACHUSETTS.

JOYCE E. HASTINGS
P.L.S.
1/17/24
DATE

ROBERT S. TRUAX
P.E.
1/17/24
DATE

REVISIONS		DESCRIPTION
No.	DATE	REVIEW COMMENTS
1	1/18/2024	

DEFINITIVE OPEN SPACE SUBDIVISION "BONNEY DRIVE EXTENSION" A 3 LOT SINGLE FAMILY SUBDIVISION HOLLISTON, MASSACHUSETTS	
PREPARED FOR: THOMAS MURCH et.al. TRUSTEE MURCH PRENTICE REALTY TRUST 5855 LYMAN ROAD TURIN, NY 13473	

GLM Engineering Consultants, Inc.	19 EXCHANGE STREET HOLLISTON, MA 01746 P: 508-429-1100 F: 508-429-7160 www.GLMengineering.com
JOB No.	7701DEF
DATE:	AUG. 29, 2023
SCALE:	1"=40'
SHEET:	2 of 10
PLAN #:	27,404

ASSESSOR'S REFERENCE:
MAP 7, BLOCK 4, PARCEL 55.D

DEED REFERENCE:
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Bk. 70305, Pg. 336

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OWNER OF RECORD:
THOMAS MURCH et.al. TRUSTEE
MURCH PRENTICE REALTY TRUST
5855 LYMAN ROAD
TURIN, NY 13473

ZONING CLASSIFICATION:
AG-RES DIST B

LOT AREA: 40,000 S.F.
FRONTAGE: 200 FT.
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AG-RES DIST B

LOT AREA: 15,000 S.F.
FRONTAGE: 50 FT.
DEPTH: N.A.
LOT WIDTH: N.A.

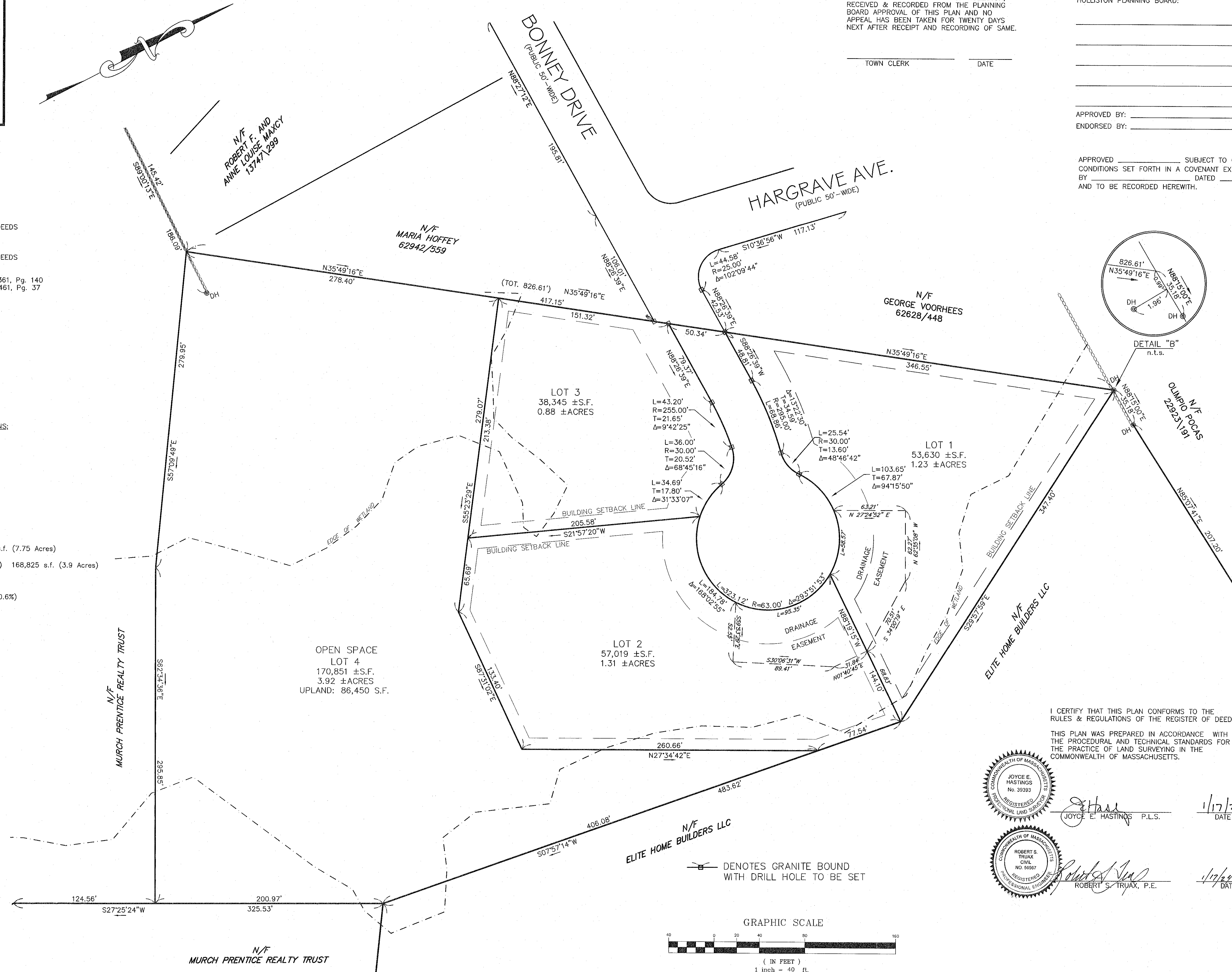
SETBACKS:
FRONT: 30'
SIDE: 10'
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OPEN SPACE REQUIREMENTS:

TOTAL LAND AREA: 337,650 s.f. (7.75 Acres)

OPEN SPACE AREA REQUIRED: (50%) 168,825 s.f. (3.9 Acres)

OPEN SPACE AREA PROVIDED:
170,851 s.f. (3.92 Acres)
UPLAND AREA: 86,450 S.F. (50.6%)



I TOWN CLERK OF THE TOWN OF HOLLISTON,
RECEIVED & RECORDED FROM THE PLANNING
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NEXT AFTER RECEIPT AND RECORDING OF SAME.

TOWN CLERK

DATE

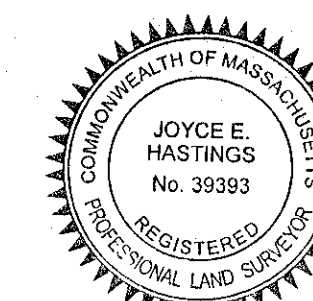
APPROVED BY
HOLLISTON PLANNING BOARD:

APPROVED BY:
ENDORSED BY:

APPROVED _____ SUBJECT TO COVENANT
CONDITIONS SET FORTH IN A COVENANT EXECUTED
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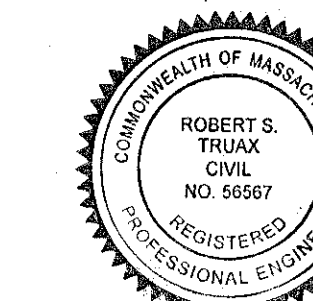
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COMMONWEALTH OF MASSACHUSETTS.



JOYCE E. HASTINGS P.L.S.

1/17/24
DATE



ROBERT S. TRUAX, P.E.

1/17/24
DATE

DEFINITIVE OPEN SPACE SUBDIVISION
"BONNEY DRIVE EXTENSION"
A 3 LOT SINGLE FAMILY SUBDIVISION
HOLLISTON, MASSACHUSETTS

GLM Engineering
Consultants, Inc.
19 EXCHANGE STREET
HOLLISTON, MA 01746
P: 508-429-1100
F: 508-429-7160
www.GLMengineering.com

JOB No. 7701DEF
DATE: AUG. 29, 2023
SCALE: 1"=60'
SHEET: 3 of 10
PLAN #: 27,404

REGISTRY USE ONLY

ASSESSOR'S REFERENCE:
MAP 7, BLOCK 4, PARCEL 55.D

DEED REFERENCE:
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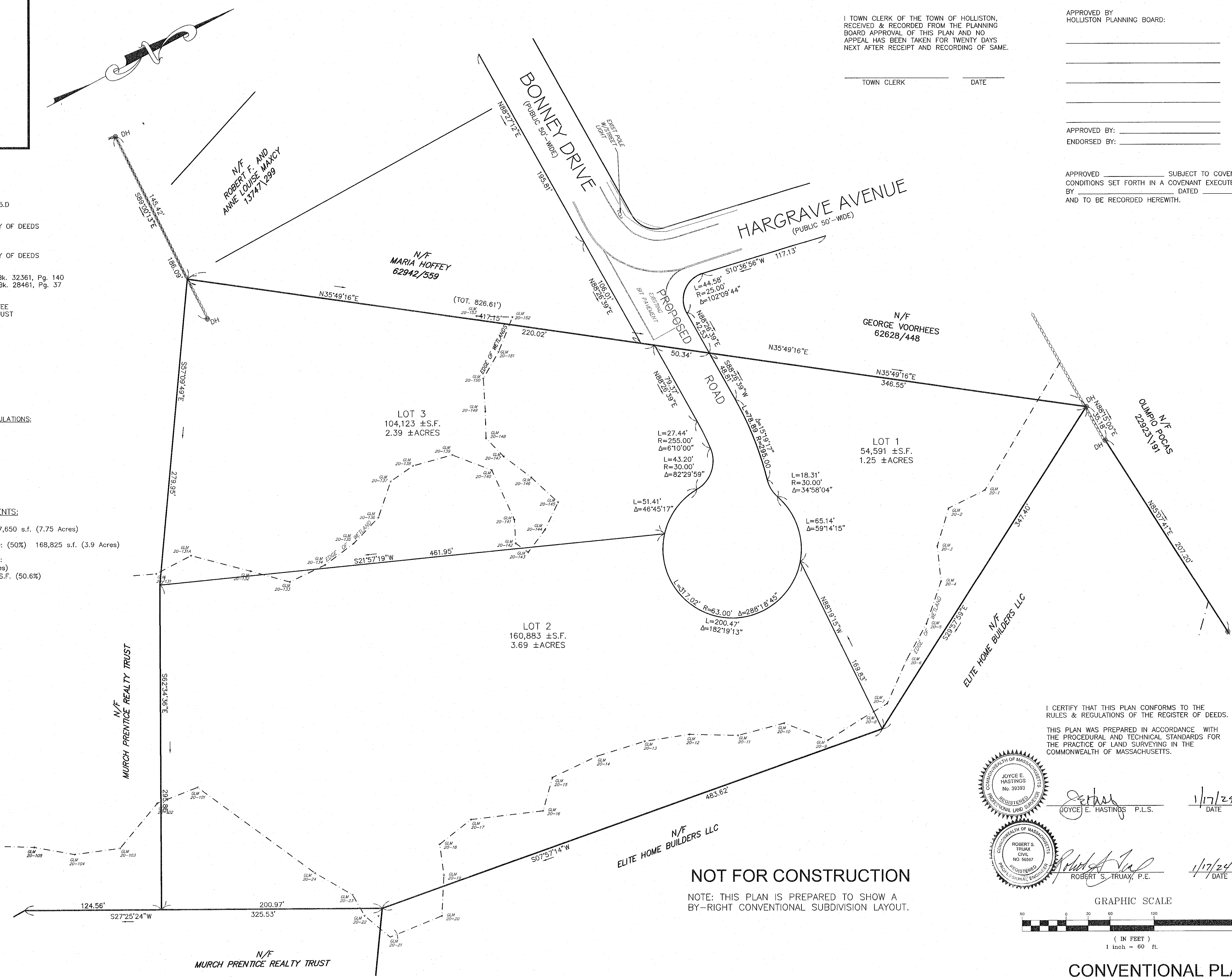
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OWNER OF RECORD:
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MURCH PRENTICE REALTY TRUST
5855 LYMAN ROAD
TURIN, NY 13473

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AG-RES DIST B
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TOWN CLERK _____ DATE _____

APPROVED BY:
HOLLISTON PLANNING BOARD:

APPROVED BY: _____
ENDORSED BY: _____

APPROVED _____ SUBJECT TO COVENANT
CONDITIONS SET FORTH IN A COVENANT EXECUTED
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AND TO BE RECORDED HEREWITH.

NOT FOR CONSTRUCTION

NOTE: THIS PLAN IS PREPARED TO SHOW A
BY-RIGHT CONVENTIONAL SUBDIVISION LAYOUT.

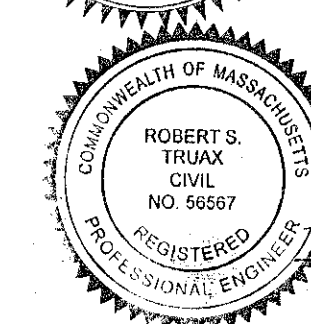
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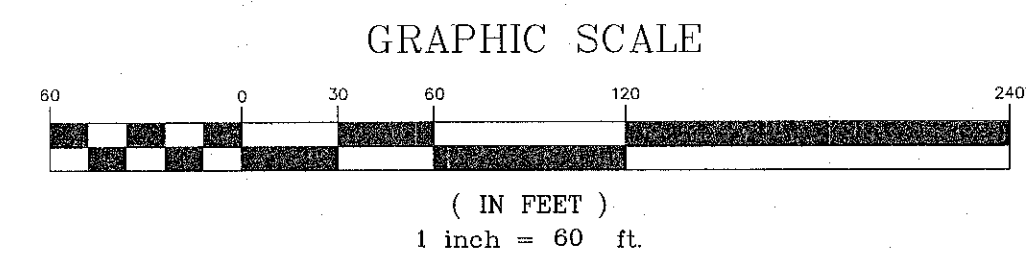
Joyce E. Hastings P.L.S.

1/17/24
DATE



Robert S. Truax, P.E.

1/17/24
DATE



CONVENTIONAL PLAN

DEFINITIVE OPEN SPACE SUBDIVISION
"BONNEY DRIVE EXTENSION"
A 3 LOT SINGLE FAMILY SUBDIVISION
HOLLISTON, MASSACHUSETTS

PREPARED FOR:
THOMAS MURCH et al, TRUSTEE
MURCH PRENTICE REALTY TRUST
5855 LYMAN ROAD
TURIN, NY 13473

GLM Engineering
Consultants, Inc.
19 EXCHANGE STREET
HOLLISTON, MA 01746
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F: 508-429-7160
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JOB No.	7701DEF
DATE:	AUG. 29, 2023
SCALE:	1"=60'
SHEET:	4 of 10
PLAN #:	27,404

REVISIONS	DATE	DESCRIPTION
No.	1/18/2024	REVIEW COMMENTS
1		

ASSESSOR'S REFERENCE:
MAP 7, BLOCK 4, PARCEL 55.D

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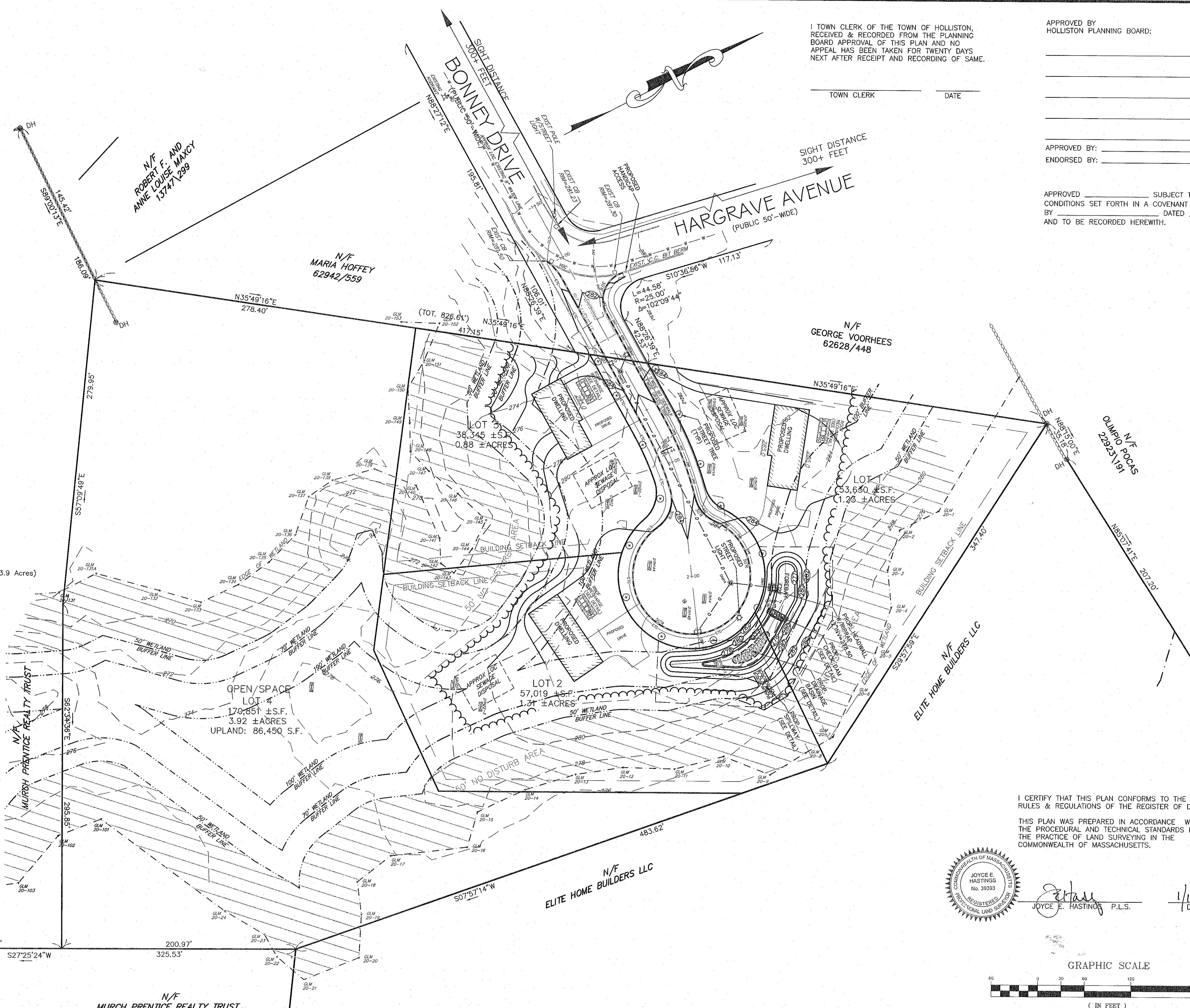
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LEGEND

- 278 — EXISTING CONTOUR LINE
- W — EXISTING WATER LINE
- D — EXISTING DRAIN LINE
- D — EXISTING SLOPE GRANITE CURB
- D — PROPOSED DRAIN LINE
- W — PROPOSED WATER LINE
- 280 — PROPOSED CONTOUR LINE
- D — PROPOSED VERTICAL GRANITE CURB
- — EDGE OF VEGETATED WETLAND
- GLM 20-15 WETLAND FLAG (GLM ENG. CONS INC)
- — STONE WALL



I, TOWN CLERK OF THE TOWN OF HOLLISTON,
RECEIVED & RECORDED FROM THE PLANNING
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TOWN CLERK

DATE

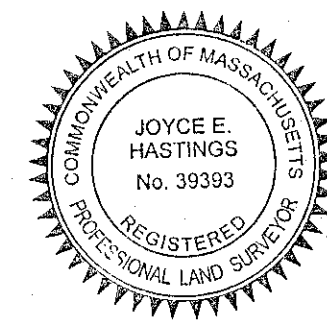
APPROVED BY:
HOLLISTON PLANNING BOARD:

APPROVED BY:
ENDORSED BY:

APPROVED _____ SUBJECT TO COVENANT
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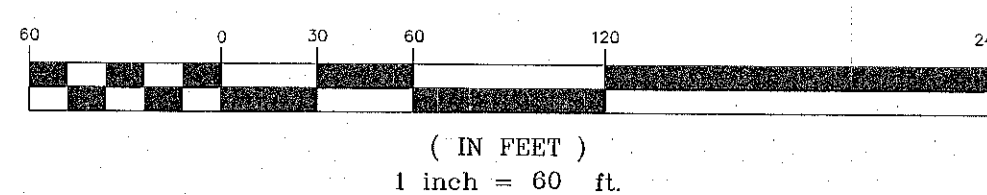
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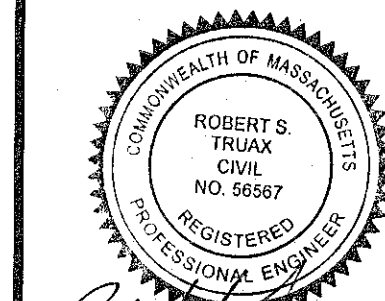
JOYCE E. HASTINGS P.L.S.

1/17/24
DATE

GRAPHIC SCALE



GRADING & DRAINAGE

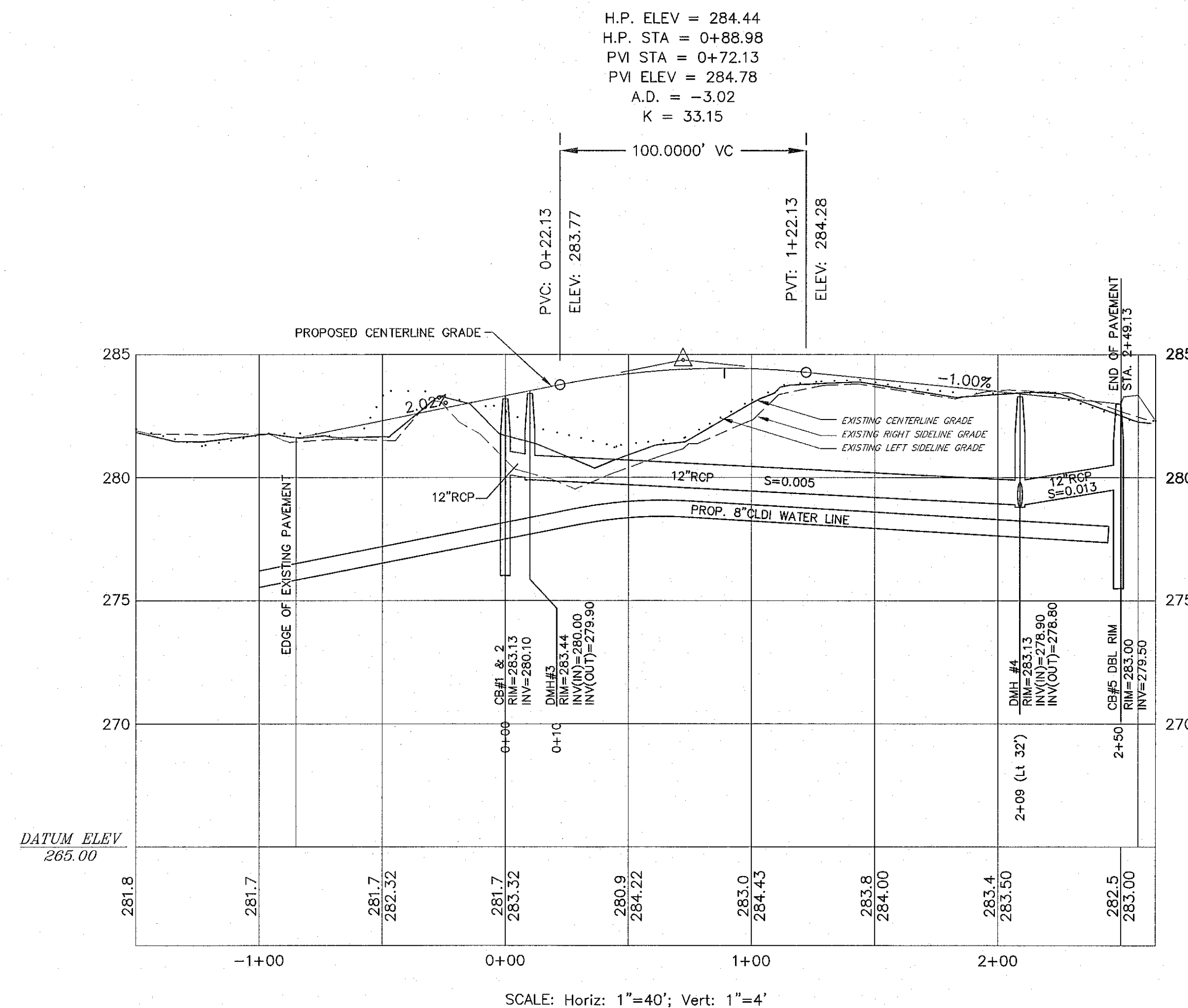
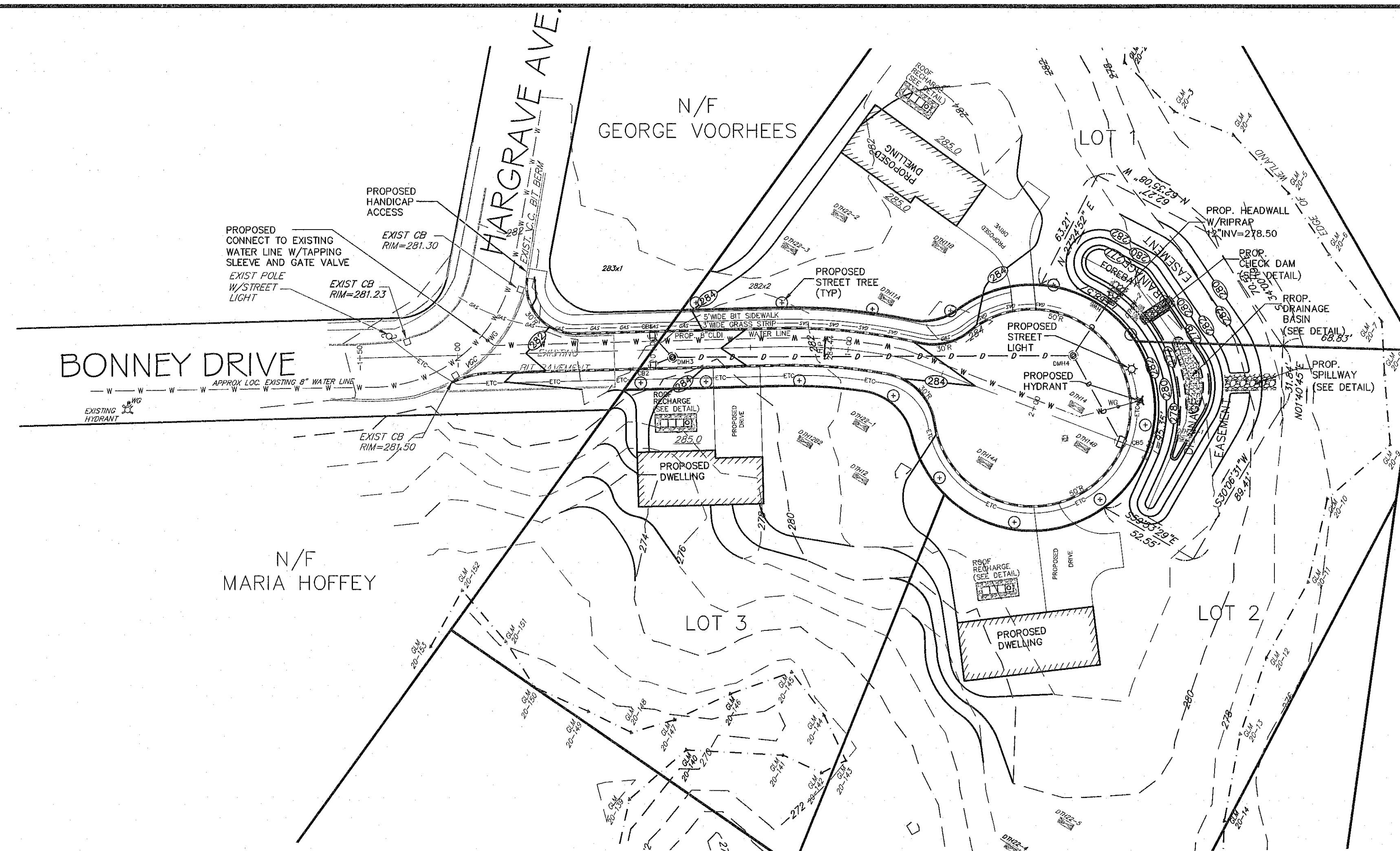


DEFINITIVE OPEN SPACE SUBDIVISION
"BONNEY DRIVE EXTENSION"
A 3 LOT SINGLE FAMILY SUBDIVISION
HOLLISTON, MASSACHUSETTS

PREPARED FOR:
THOMAS MURCH et al. TRUSTEE
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www.GLMengineering.com

JOB No. 7701DEF
DATE: AUG. 29, 2023
SCALE: 1"=60'
SHEET: 5 of 10
PLAN #: 27,404

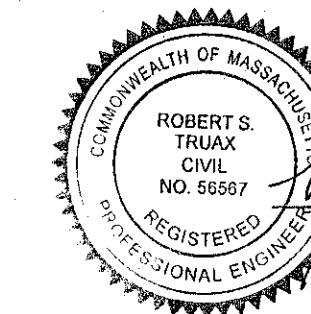


APPROVED BY:
HOLLISTON PLANNING BOARD:

APPROVED BY:
ENDORSED BY:

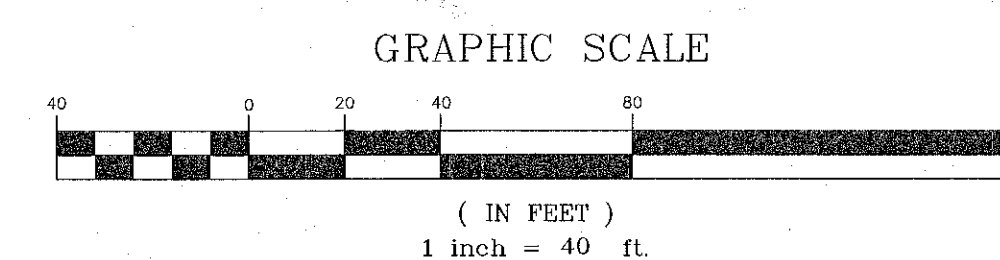
APPROVED _____ SUBJECT TO COVENANT
CONDITIONS SET FORTH IN A COVENANT EXECUTED
BY _____ DATED _____
AND TO BE RECORDED HEREWITH.

TOWN CLERK _____ DATE _____



Robert S. Truax
ROBERT S. TRUAX, P.E.

1/17/24
DATE



PLAN & PROFILE

DEFINITIVE OPEN SPACE SUBDIVISION
"BONNEY DRIVE EXTENSION"
A 3 LOT SINGLE FAMILY SUBDIVISION
HOLLISTON, MASSACHUSETTS

GLM Engineering
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JOB No. 7701DEF
DATE: AUG. 29, 2023
SCALE: 1"=40'
SHEET: 6 of 10
PLAN #: 27,404

No.	DATE	REVISIONS	
		DESCRIPTION	REVIEW COMMENTS
1	1/18/2024		

PREPARED FOR:
THOMAS MURCH et al., TRUSTEE
MURCH PRENTICE REALTY TRUST
5855 LYMAN ROAD
TURIN, NY 13473

EROSION AND SEDIMENTATION CONTROL:

1. PRIOR TO ANY DISTURBANCE OR ALTERATIONS ON ANY AREA ON THE SITE. THE FILTER MITT EROSION CONTROL BARRIERS SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE SITE PLAN.
2. BARRIERS SHALL BE CONSTRUCTED AS SHOWN ON THE FILTER MITT DETAIL WITH FILTER FENCE DETAIL ABOVE.
3. ONCE INSTALLED, THE FILTER MITT SEDIMENT BARRIERS SHALL BE MAINTAINED IN PLACE UNTIL ALL AREAS UPGRADIENT FROM THE BARRIERS HAVE BEEN STABILIZED AS SPECIFIED HEREIN. UPON COMPLETION AND STABILIZATION OF THE PROJECT, THE FILTER MITT AND FENCE SHALL BE REMOVED.
4. THE FILTER MITT BARRIER INTENDED TO ACT AS A LIMIT OF DISTURBANCE. ANY LAND DOWN GRADIENT FROM THE FENCE ACCIDENTALLY DISTURBED SHALL BE IMMEDIATELY REPAIRED AND RESTORED TO ORIGINAL CONDITION.
5. EROSION CONTROL MEASURES SHALL BE MONITORED ON A DAILY BASIS, OR AS NEEDED, AND BE REINFORCED, REPAIRED, OR REPLACED WHEN NEEDED, PER JUDGEMENT OF THE SITE FOREMAN AND/OR TOWN OF HOLLISTON REPRESENTATIVE.
6. TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES TEMPORARILY CEASE FOR AT LEAST 30 DAYS. AREAS SHALL BE STABILIZED WITH TEMPORARY SEED. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A VEGETATIVE COVER, DISTURBED AREAS SHALL BE MULCHED AND THEN SEEDED WHEN WEATHER CONDITIONS ALLOW.
7. THE FIRST ONE-HUNDRED AND FIFTY (150) FEET OF THE PROPOSED ROADWAY ENTRANCE AT THE INTERSECTION OF PRENTICE STREET SHALL BE COVERED WITH TWELVE (12) INCHES OF 3 - 5 INCH CRUSHED STONE TO STABILIZE THE AREA.
8. WATER SPRAYING SHALL BE UTILIZED ON ALL DISTURBED AREAS DURING DRY WEATHER TO PREVENT DUST. A WATER TRUCK SHALL BE KEPT ON SITE AT ALL TIMES DURING THE DURING THE SUMMER MONTHS OF CONSTRUCTION.
9. FOLLOWING CONSTRUCTION OF THE CATCH BASIN STRUCTURES WITHIN THE SITE, SILT SACKS SHALL BE INSTALLED AND MAINTAINED DURING CONSTRUCTION. (SEE DETAIL)

EROSION CONTROL MAINTENANCE:

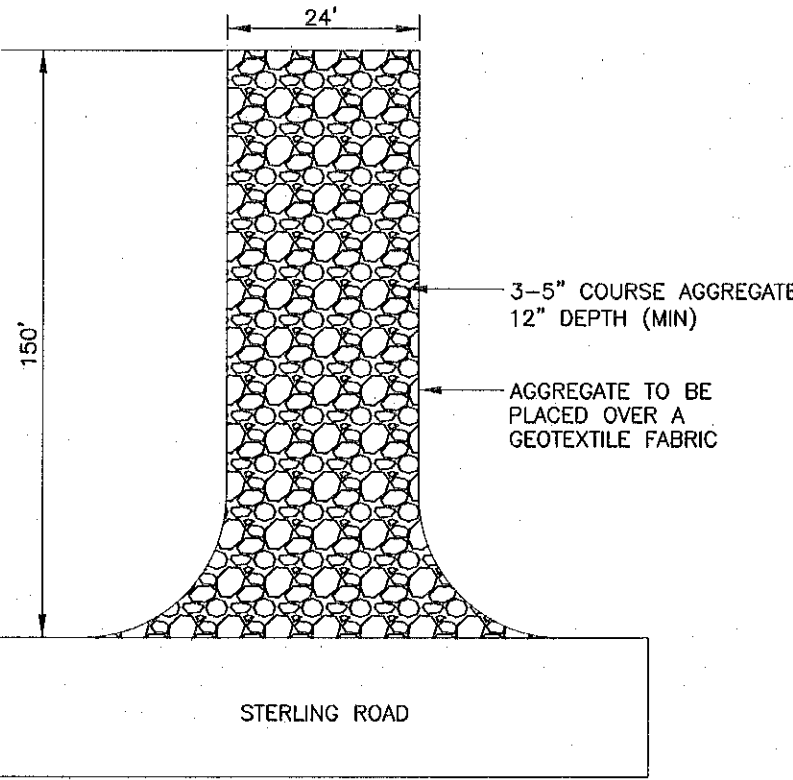
1. SEDIMENT SHALL BE REMOVED ONCE THE VOLUME REACHES $\frac{1}{4}$ HEIGHT OF THE EROSION CONTROL BARRIER.
2. THE CONTRACTOR SHALL HAVE ON THE SITE, AN ADEQUATE QUANTITY OF SUPPLEMENTAL HAYBALES, SILT FENCE AND STAKES TO BE USED FOR CONTROL OF EMERGENCY EROSION PROBLEMS. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER A STORM EVENT OF 1" INCH OR GREATER.

DEWATERING:

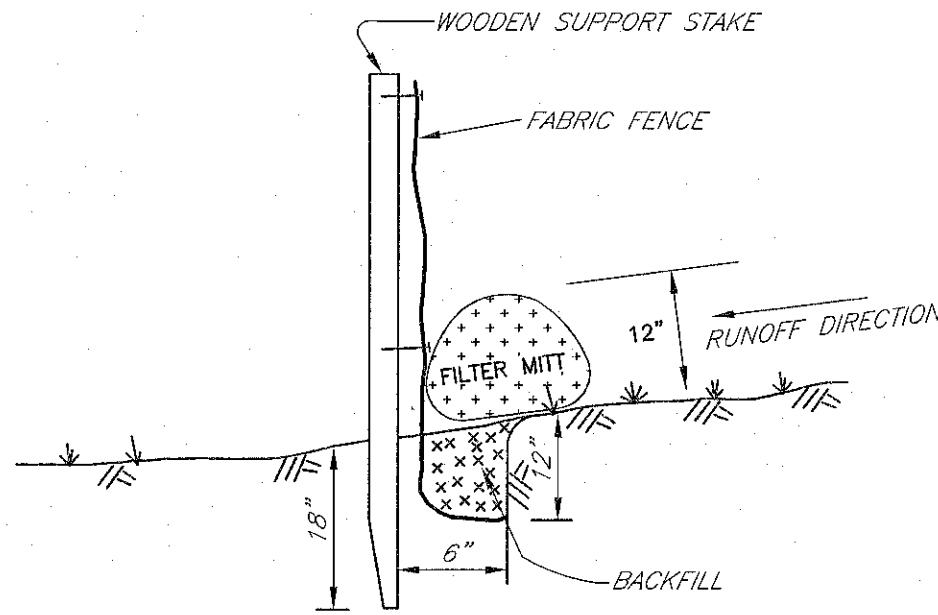
PUMPING AND DEWATERING SHALL BE DONE IN A MANNER WHICH WILL NOT DISCHARGE ANY SILT AND SEDIMENT INTO A RESOURCE AREA. DISCHARGES FROM A DEWATERING CONSTRUCTION PROCEDURE WILL BE FILTERED THROUGH A SILTATION BASIN CONSTRUCTED UPLAND FROM THE WORK SITE. THE SILTATION BASIN SHALL BE A DEPRESSION SURROUNDED BY A HAYBALE DIKE OR SILT FENCE. OVERFLOW FROM THE BASIN SHALL BE PLANNED TO BE LOCATED OVER THICKLY AND NATURALLY MULCHED UPLAND AREA. ALL BASINS SHALL BE LOCATED AT LEAST 100 FEET UPSLOPE FROM ANY WETLAND RESOURCE AREA.

STOCKPILING:

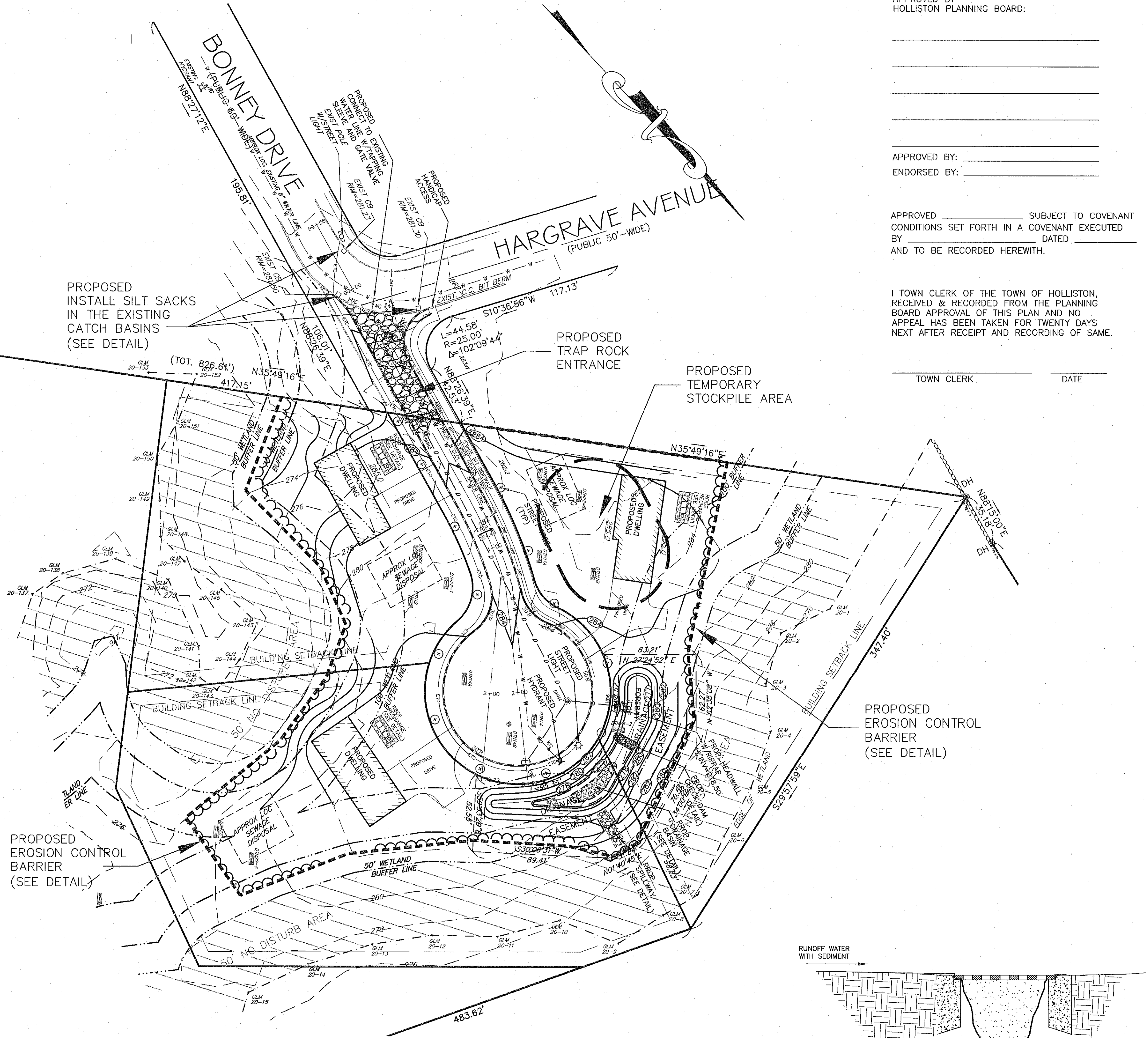
ALL STOCKPILES AREAS SHALL BE SECURED AROUND THE PERIMETER WITH FILTER MITT BARRIER.



TRAP ROCK APRON
CONSTRUCTION ENTRANCE
N.T.S.



EROSION CONTROL BARRIER
WITH FILTER MITT
N.T.S.



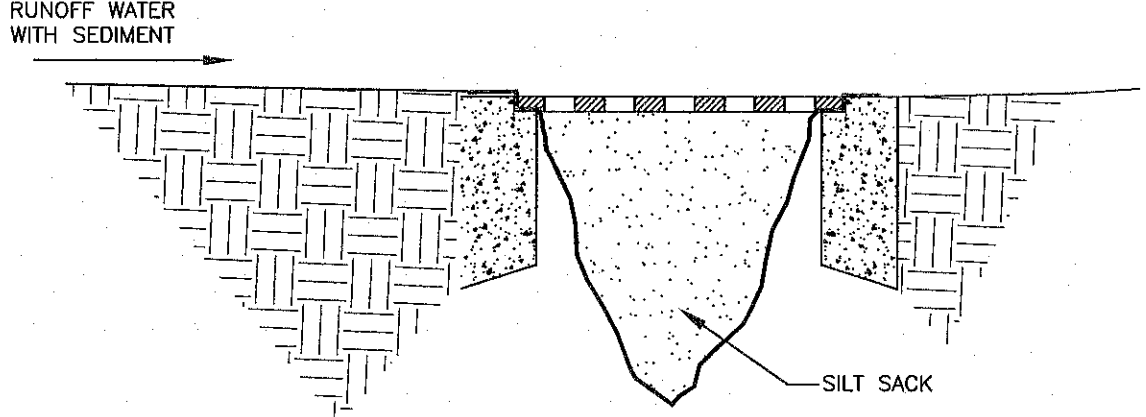
APPROVED BY:
HOLLISTON PLANNING BOARD:

APPROVED BY: _____
ENDORSED BY: _____

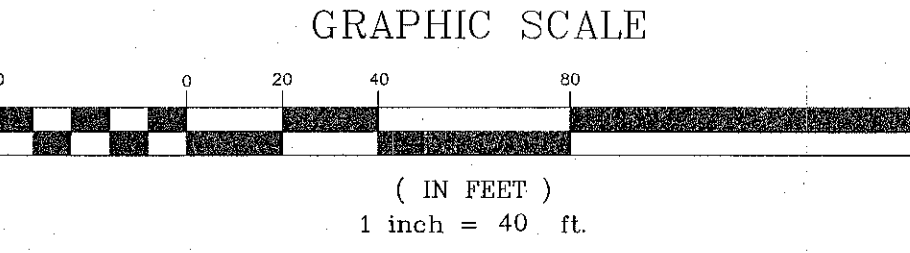
APPROVED _____ SUBJECT TO COVENANT
CONDITIONS SET FORTH IN A COVENANT EXECUTED
BY _____ DATED _____
AND TO BE RECORDED HEREWITH.

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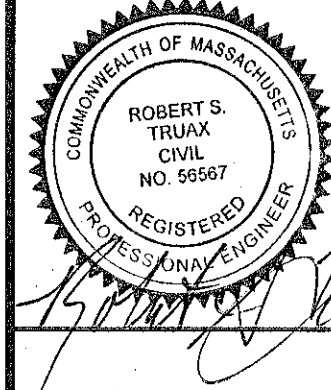
TOWN CLERK _____ DATE _____



SILT SACK CATCH BASIN INLET
NOT TO SCALE



EROSION CONTROL



DEFINITIVE OPEN SPACE SUBDIVISION
"BONNEY DRIVE EXTENSION"
A 3 LOT SINGLE FAMILY SUBDIVISION
HOLLISTON, MASSACHUSETTS

PREPARED FOR:
THOMAS MURCH et al. TRUSTEE
MURCH PRENTICE REALTY TRUST
5855 LYMAN ROAD
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F: 508-429-7160
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JOB No.	7701DEF
DATE:	AUG. 29, 2023
SCALE:	1"=40'
SHEET:	7 of 10
PLAN #:	27,404

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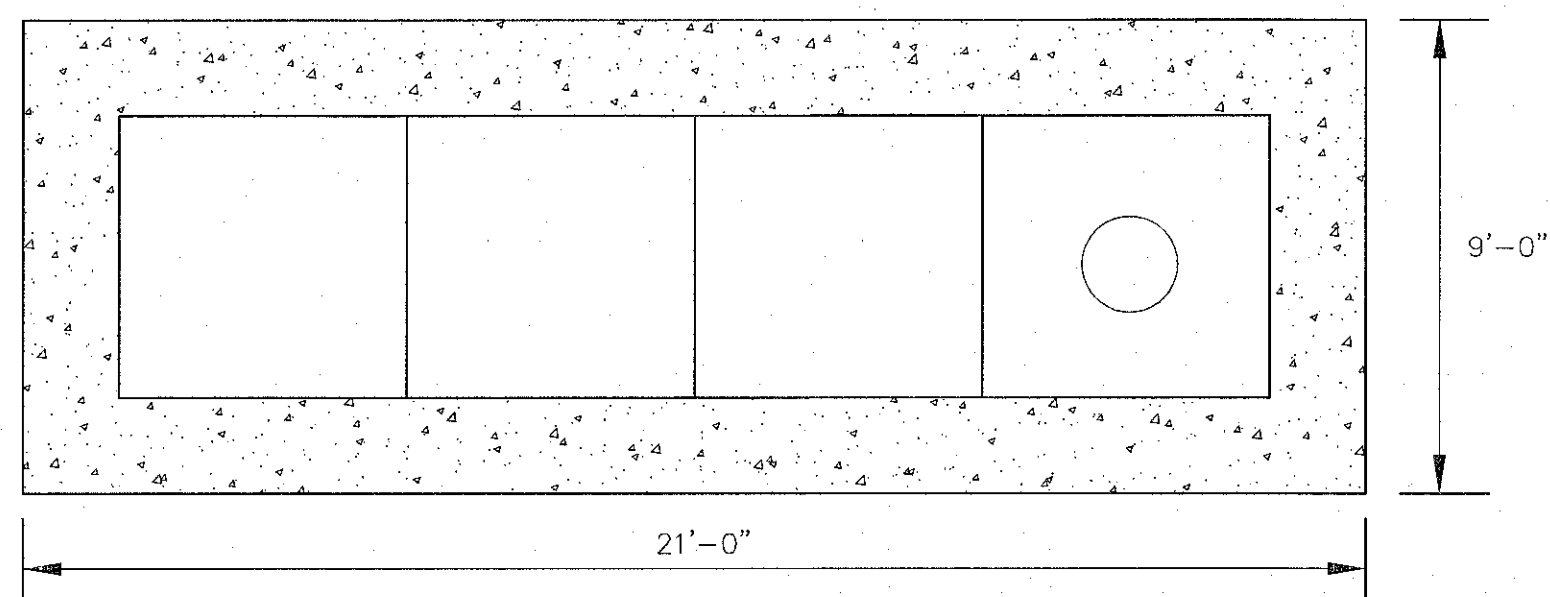
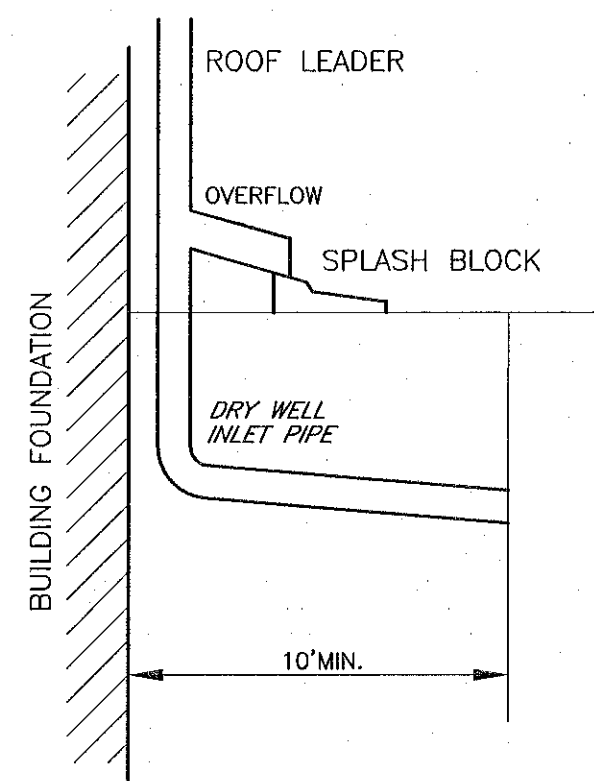
APPROVED BY
HOLLISTON PLANNING BOARD:

TOWN CLERK

DATE

APPROVED BY:

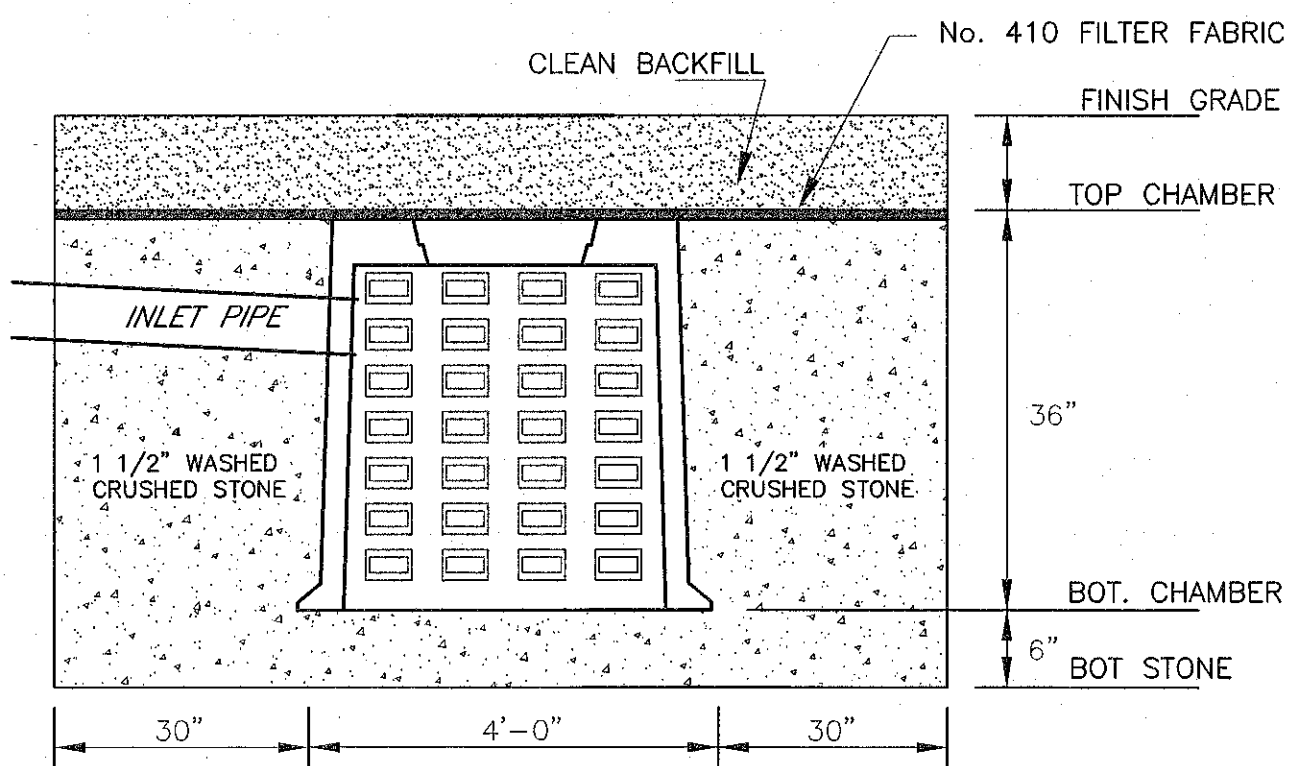
ENDORSED BY:



4 - 4X4X3 GALLEY'S W/STONE

NOTES:
1. ALL ROOF RUNOFF SHALL BE DIRECTED
TO A RECHARGE SYSTEM. (SEE PLAN)

NOTES:
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGNED FOR H-20 LOADING.
3. GALLEYS TO BE PLACED AGAINST ONE ANOTHER AS
INDICATED ON THE GRADING PLAN ON A STONE
BASE, WITH 18" OF STONE ALL AROUND.
4. STONE SHALL MEET SECTION M2.01.2 OF THE
MHD SPECIFICATIONS.



ROOF RECHARGE SYSTEM DETAIL

N.T.S.

DEEP HOLE -- 24-1		
HORIZ DEPTH	DATE: 1/05/24	ELEV.
0"	A LOAM 10YR3/2	282.5
4"		
28"	Bw SANDY LOAM 10YR5/6	280.2
130"	C SAND Med-Coarse Sand 2.5Y5/4	271.7
None	GROUNDWATER OBSERVED	271.7
None	SOIL MOTTLING	271.7
None	GROUNDWATER MONITORED	
None	ESTIMATED SEASONAL HIGH GROUNDWATER	

DEEP HOLE -- 24-2		
HORIZ DEPTH	DATE: 1/05/24	ELEV.
0"	A LOAM 10YR3/2	282.5
4"		
28"	Bw SANDY LOAM 10YR5/6	280.2
120"	C SAND Med-Coarse Sand 2.5Y5/4	272.5
None	GROUNDWATER OBSERVED	272.5
None	SOIL MOTTLING	272.5
None	GROUNDWATER MONITORED	
None	ESTIMATED SEASONAL HIGH GROUNDWATER	

DEEP OBSERVATION HOLE LOGS

DEEP HOLE -- 14A		
HORIZ DEPTH	DATE: 5/14/97	ELEV.
0"	A LOAM 10YR3/2	282.9
8"		
22"	Bw SANDY LOAM 10YR5/6	281.1
45"	C SAND Coarse Gravel 2.5Y5/4	
120"	C2 SAND Fine-Med Sand w/Cobs-stones 2.5Y5/1	272.9
None	GROUNDWATER OBSERVED	
None	SOIL MOTTLING	
9.0'	GROUNDWATER MONITORED 3/20/22	273.9
None	ESTIMATED SEASONAL HIGH GROUNDWATER	

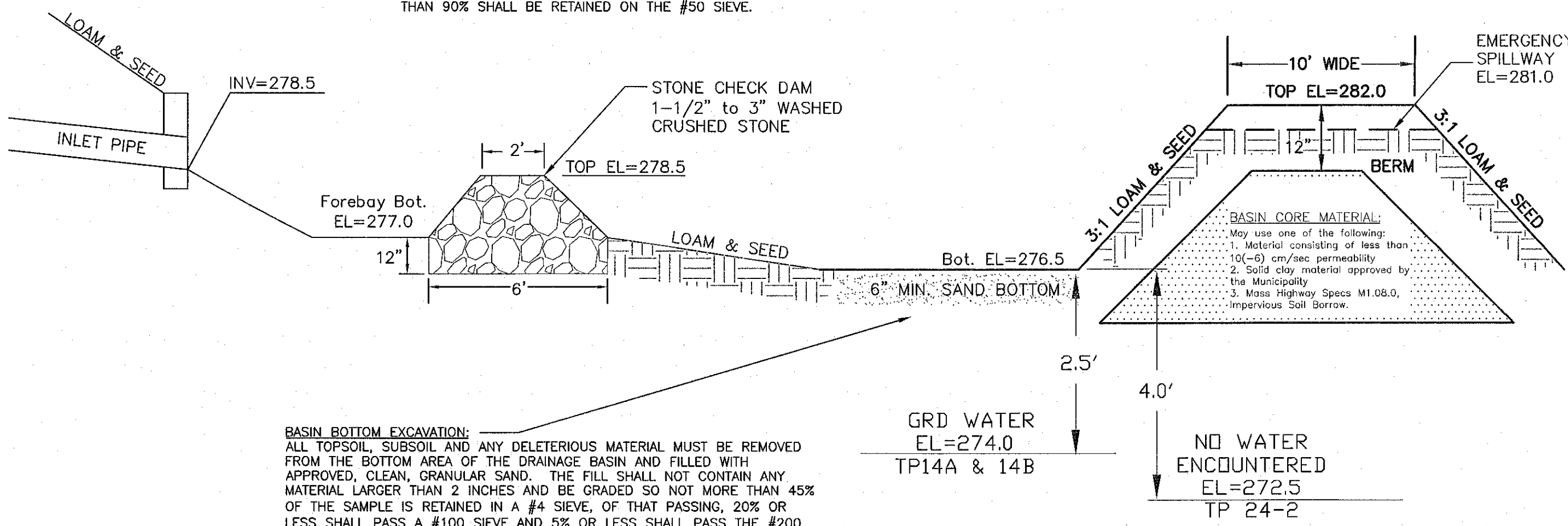
DEEP HOLE -- 14B		
HORIZ DEPTH	DATE: 5/14/97	ELEV.
0"	A LOAM 10YR3/2	283.0
6"		
32"	Bw SANDY LOAM 10YR5/6	280.3
48"	C SAND Coarse Gravel 2.5Y5/4	279.0
132"	C2 SAND Fine-Med Sand w/Cobs-stones 2.5Y5/1	272.0
None	GROUNDWATER OBSERVED	
None	SOIL MOTTLING	
9.1'	GROUNDWATER MONITORED 3/20/22	273.9
None	ESTIMATED SEASONAL HIGH GROUNDWATER	

CERTIFIED SOIL EVALUATOR : ROBERT TRUAX, SE#2476

NOTES:
1. THE AREA BELOW THE INFILTRATION SYSTEM AND 5 FEET BEYOND THE
BOTTOM ELEVATION LIMIT IS TO BE EXCAVATED AND ALL DELETERIOUS
MATERIAL REMOVED TO THE DEPTH OF THE NATURAL PARENT MATERIAL.
2. NO CONSTRUCTION PERIOD RUNOFF SHALL BE DIRECTED TO THE DETENTION
BASIN.

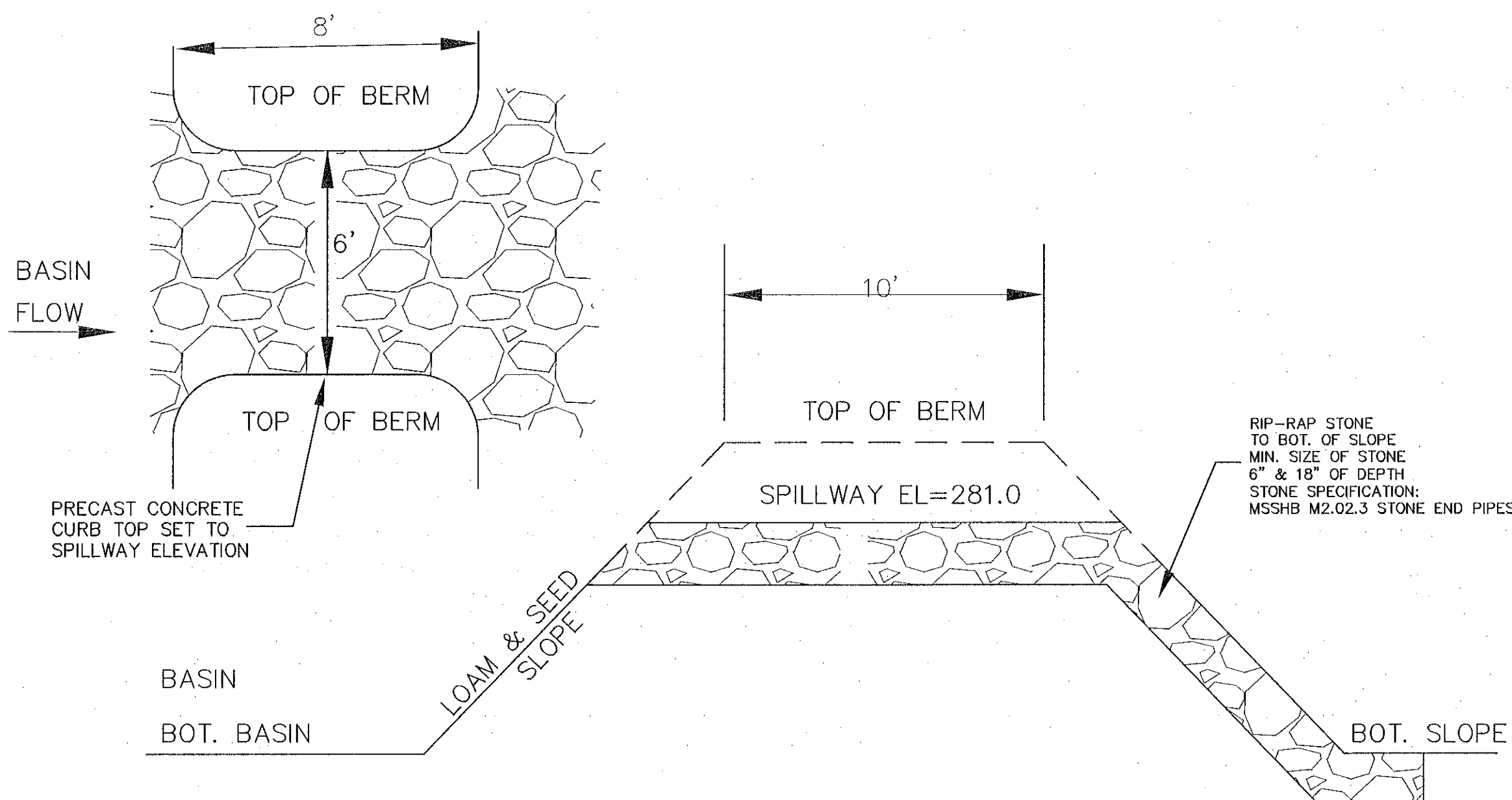
LIMIT OF EXCAVATION
ALL DELETERIOUS MATERIAL MUST BE REMOVED FROM THE AREA OF THE
INFILTRATION SYSTEMS AND OTHER DESIGNATED LIMITS AND FILLED WITH
APPROVED, CLEAN, GRANULAR SAND. THE FILL SHALL NOT CONTAIN ANY
MATERIAL LARGER THAN 2 INCHES AND BE GRADED SO NOT MORE THAN 45% OF
THE SAMPLE IS RETAINED IN A #4 SIEVE, OF THAT PASSING, 20% OR LESS SHALL
PASS A #100 SIEVE AND 5% OR LESS SHALL PASS THE #200 SIEVE. NOT MORE
THAN 90% SHALL BE RETAINED ON THE #50 SIEVE.

BASIN BOTTOM EXCAVATION:
ALL TOPSOIL, SUBSOIL AND ANY DELETERIOUS MATERIAL MUST BE REMOVED
FROM THE BOTTOM AREA OF THE DRAINAGE BASIN AND FILLED WITH
APPROVED, CLEAN, GRANULAR SAND. THE FILL SHALL NOT CONTAIN ANY
MATERIAL LARGER THAN 2 INCHES AND BE GRADED SO NOT MORE THAN 45%
OF THE SAMPLE IS RETAINED IN A #4 SIEVE, OF THAT PASSING, 20% OR
LESS SHALL PASS A #100 SIEVE AND 5% OR LESS SHALL PASS THE #200
SIEVE.



OUTLET STRUCTURE DETAIL BASIN #1

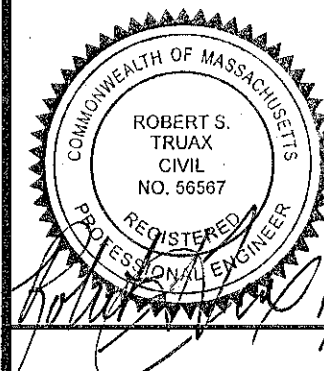
(PRECAST CONCRETE STRUCTURE)
NOT TO SCALE



DRAINAGE BASIN SPILLWAY DETAIL

NOT TO SCALE

DRAINAGE DETAILS



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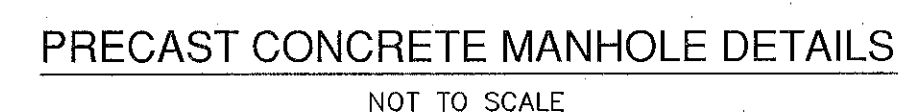
JOB No. 7701DEF
DATE: AUG. 29, 2023
SCALE: 1"=40'
SHEET: 8 of 10
PLAN #: 27,404

APPROVED BY: _____

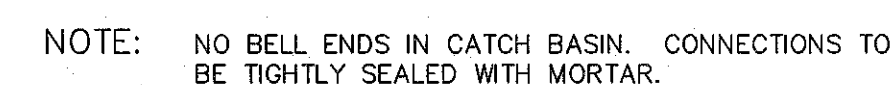
ENDORSED BY: _____

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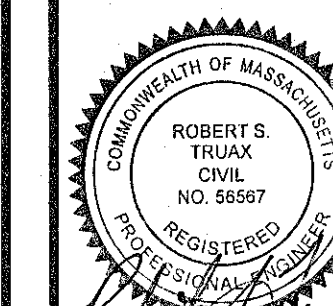
ALL STEEL SHALL BE #3 REINFORCED BARS,
SPACED 12" ON CENTER



1. STREET TREES SHALL BE A MINIMUM HEIGHT OF 8 FEET.
2. TREES SHALL BE PLANTED NO MORE THAN 50 FT. SPACING.

TYP. DECIDUOUS TREE PLANTING

DETAILS

[illegible]

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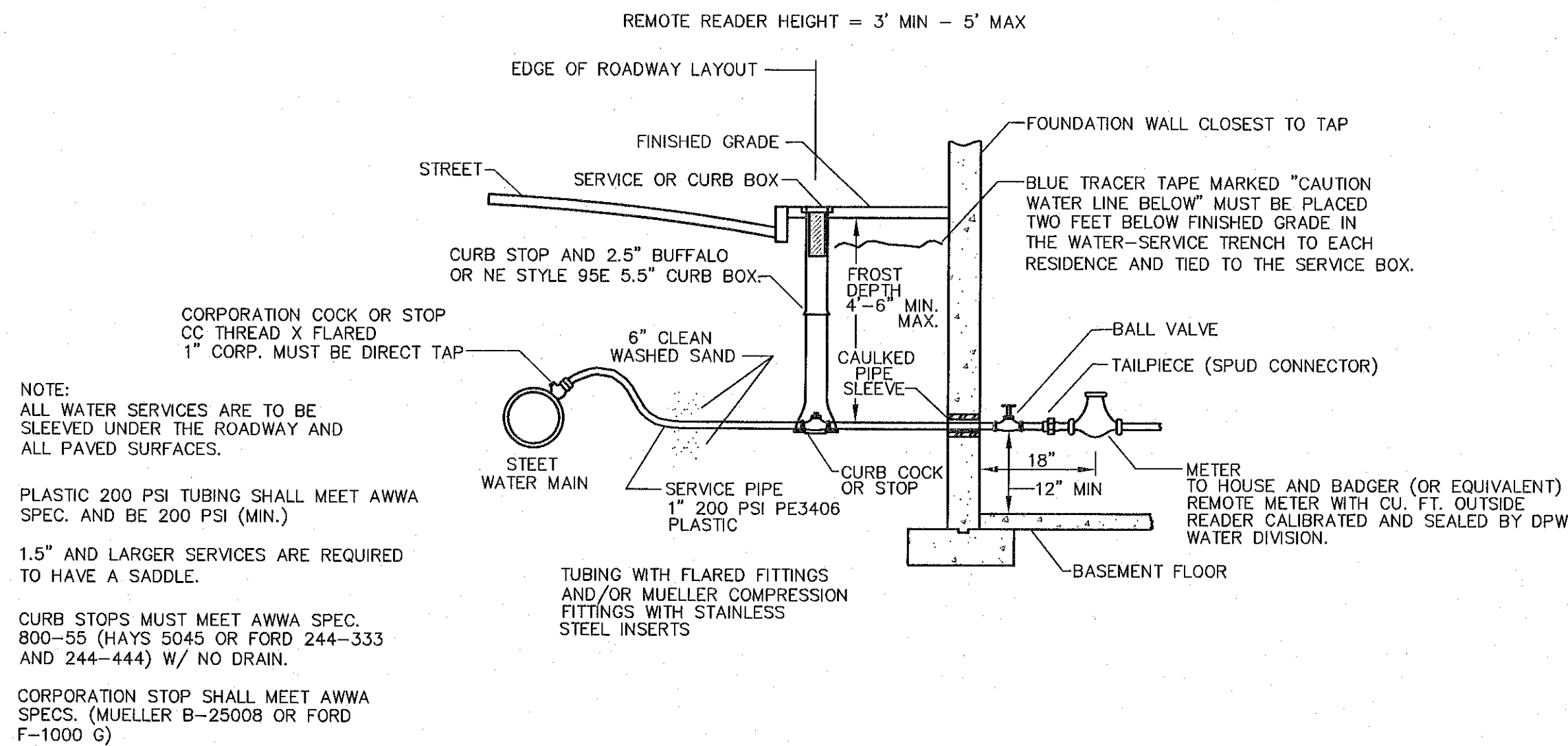
ELISTON, MASSACHUSETTS

PREPARED FOR:

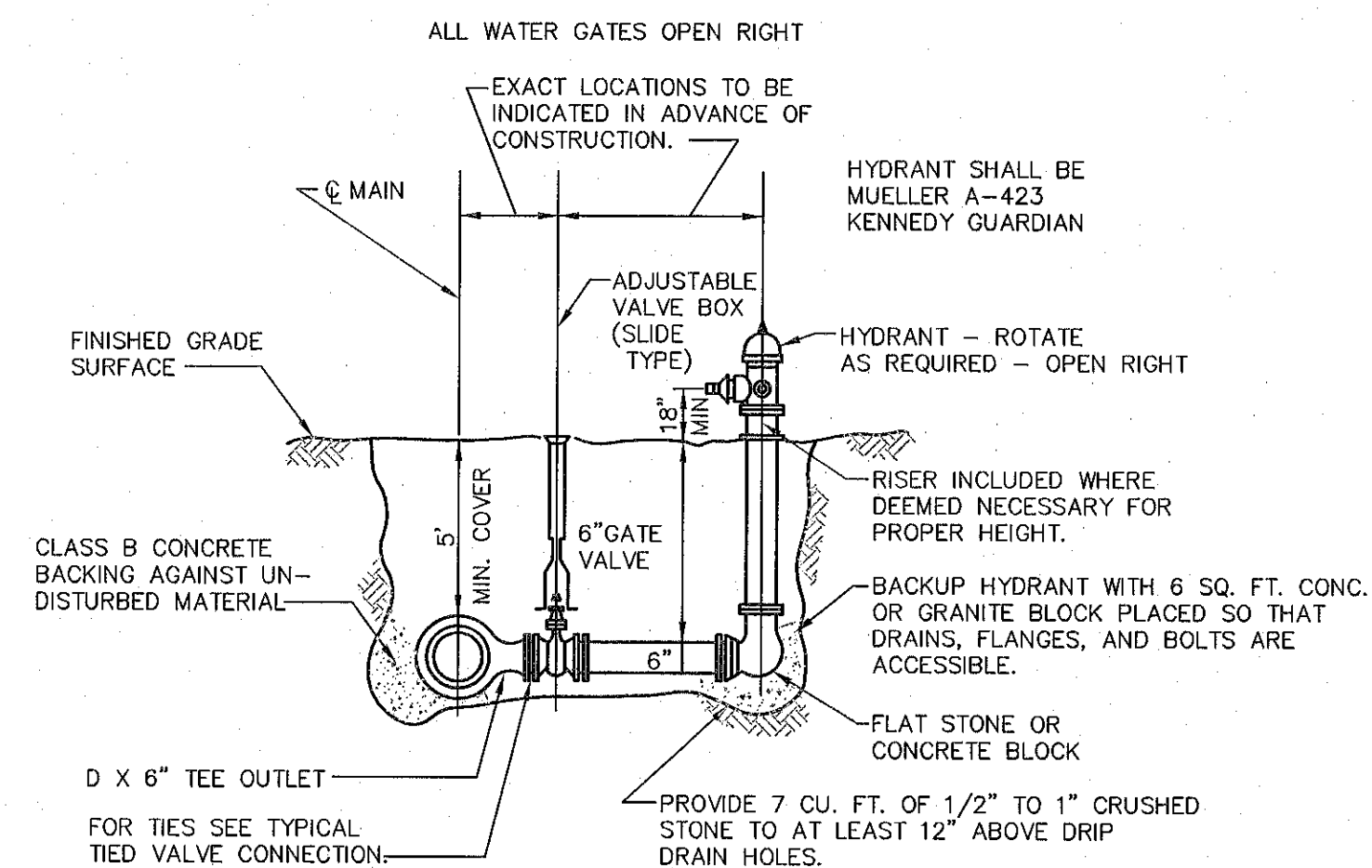
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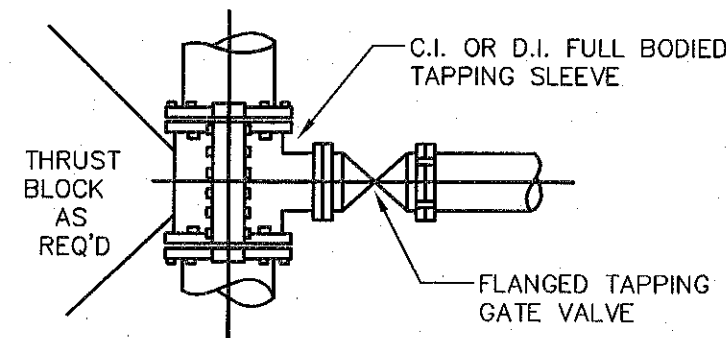
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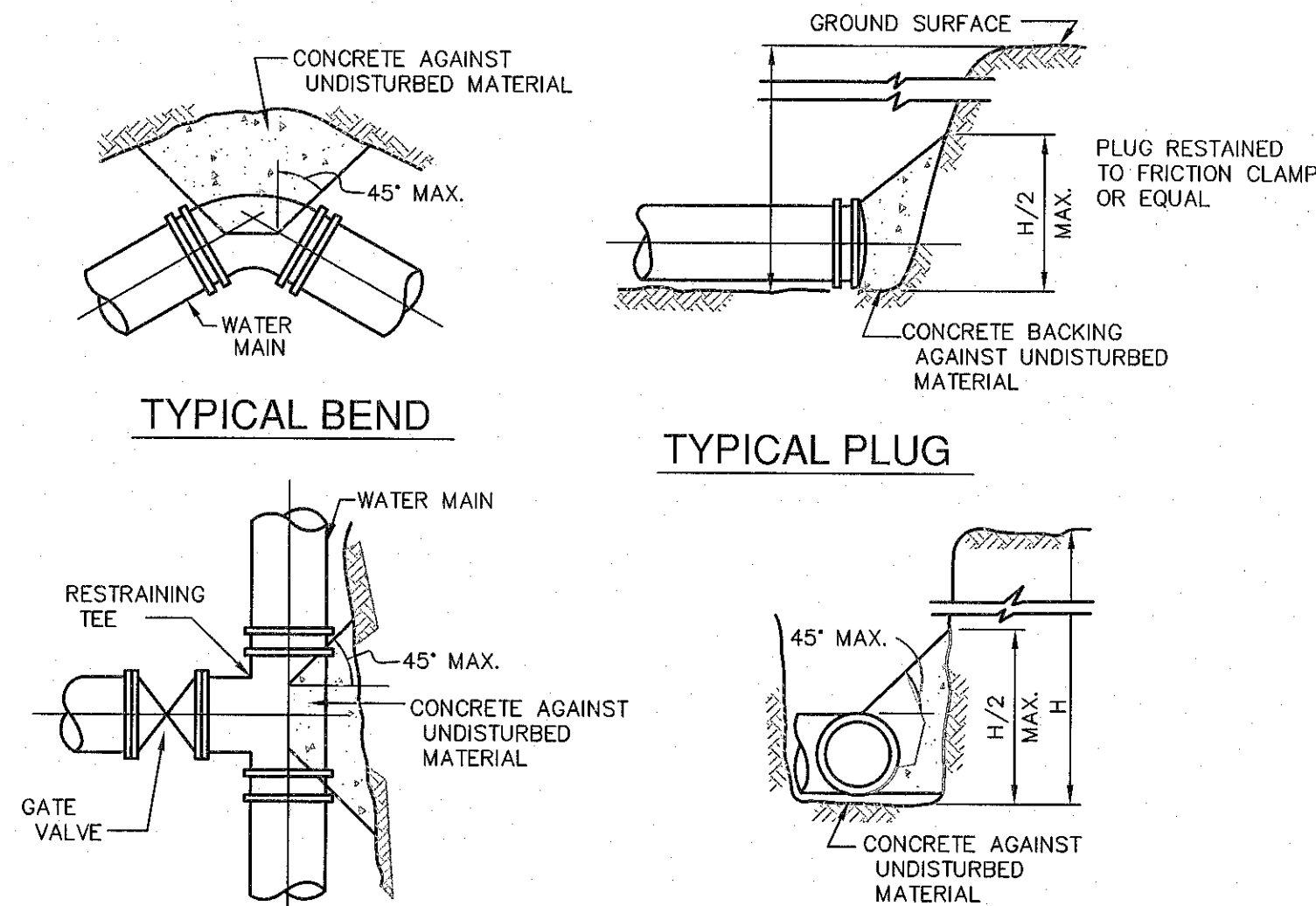
TYPICAL WATER SERVICE CONNECTION
NOT TO SCALE



TYPICAL HYDRANT ASSEMBLY DETAIL
NOT TO SCALE



TAPPING SLEEVE AND VALVE DETAILS
NOT TO SCALE

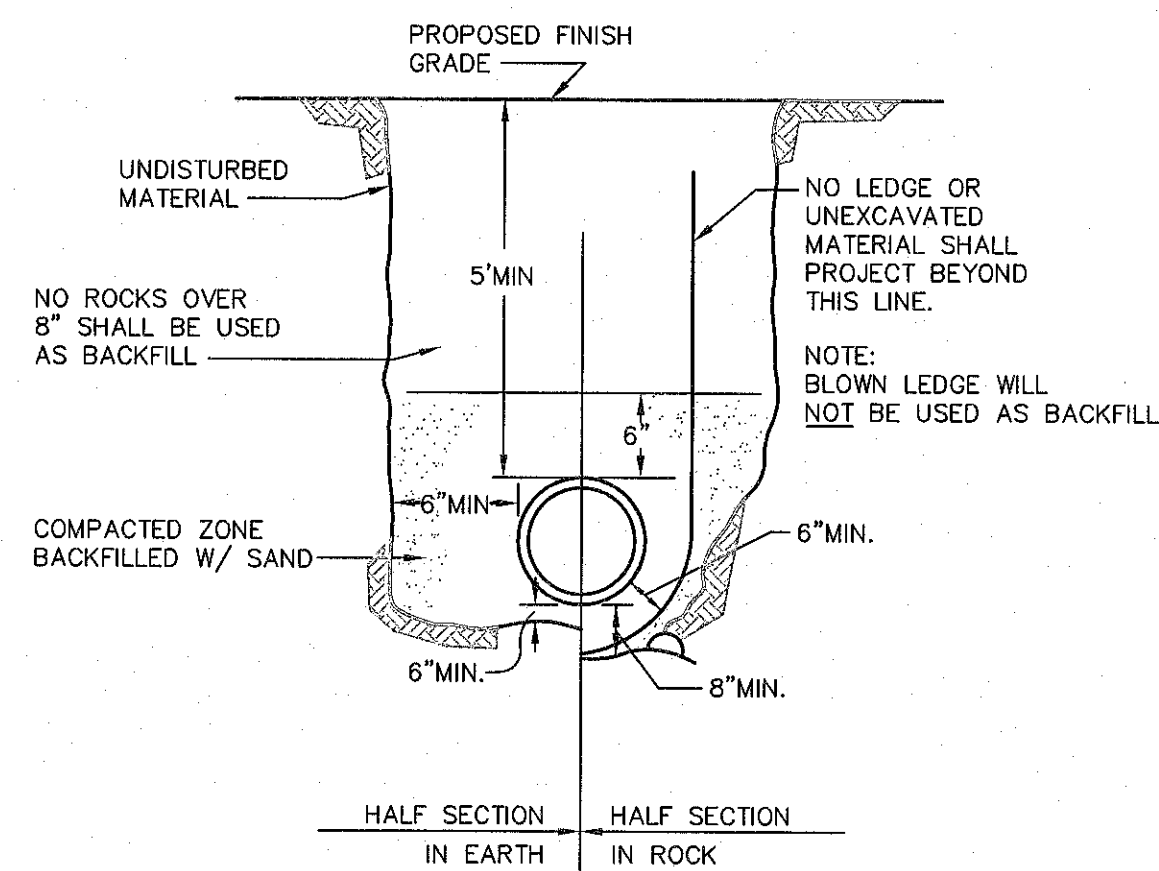


TYPICAL BEND TYPICAL PLUG TYPICAL TEE TYPICAL SECTION

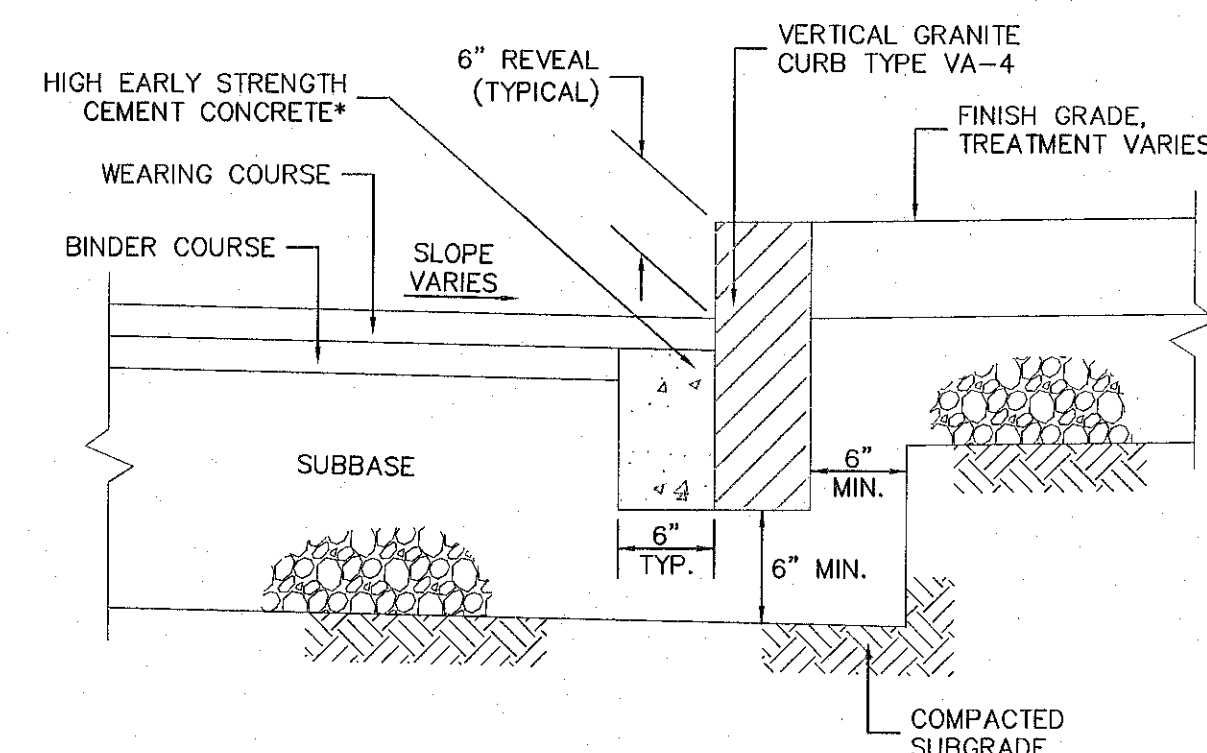
NOTE: CONCRETE FOR THRUST BLOCKS SHALL BE NO LONGER THAN THE RATIO OF 2 1/2 : 5 1/2 AND SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 2000 PSI (SO THAT FLANGES AND BOLTS ARE ACCESSIBLE.)

BEARING AREAS OF THRUST BLOCKS (BEARING AREA IN SQUARE FT.)				
PIPE SIZE INCHES	1/4 BEND	1/8 BEND	1/16 BEND OR LESS	PLUG TEES
6 AND 8	8	8		8
10 AND 12	22	13	8	16

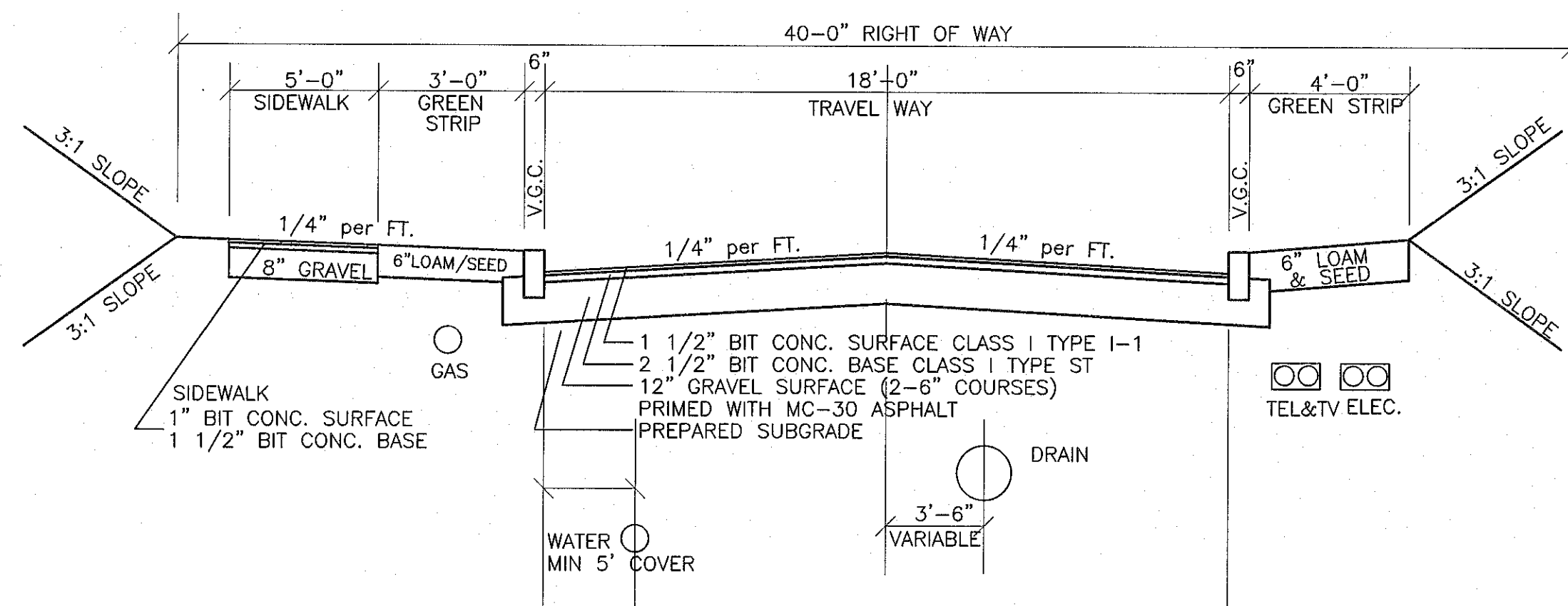
TYPICAL THRUST BLOCK DETAIL
NOT TO SCALE



WATER MAIN TRENCH DETAIL
NOT TO SCALE



VERTICAL GRANITE CURB DETAIL
NOT TO SCALE



TYPICAL RIGHT OF WAY CROSS SECTION

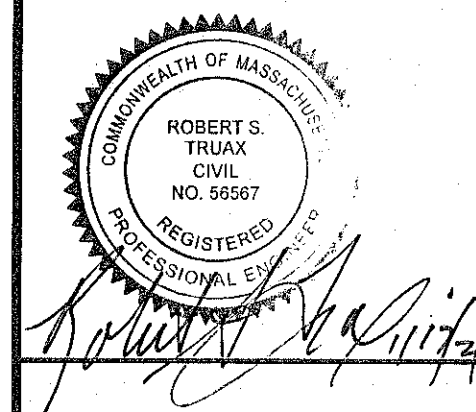
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HOLLISTON PLANNING BOARD:

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ENDORSED BY: _____

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