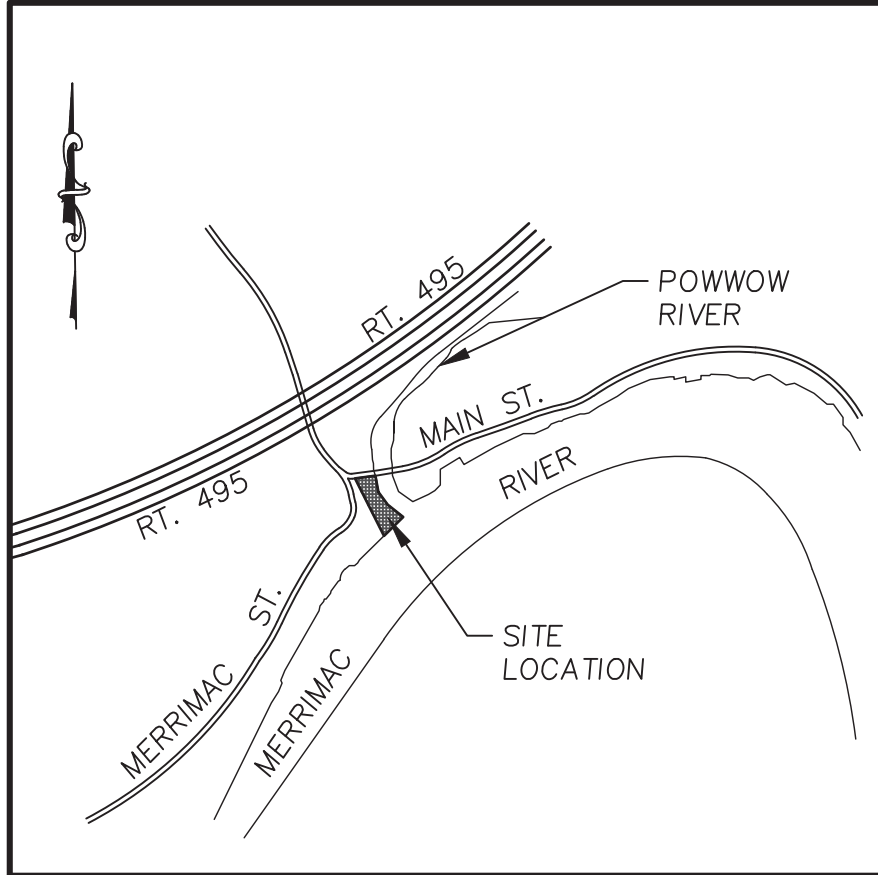




LOCUS MAP
N.T.S.

PROPOSED SITE PLAN
MARINA AT AMESBURY POINT
IN
AMESBURY, MA
MARCH 2024



FOR REGISTRY USE

AMESBURY PLANNING
BOARD APPROVAL

DATE

CITY OF AMESBURY
OFFICE OF THE CITY OF THE CLERK

THIS IS TO CERTIFY THAT ON MARCH 11, 2024
I RECEIVED FROM THE AMESBURY PLANNING
BOARD CERTIFICATION OF ITS APPROVAL OF
THIS PLAN AND THAT DURING THE (20)
TWENTY DAYS NEXT FOLLOWING I HAVE
RECEIVED NO NOTICE OF ANY APPEAL FROM
SAID DECISION.

CLERK _____ DATE _____

PLAN INDEX

SHEET NO.	TITLE
C-1	COVER SHEET
C-2	GENERAL NOTES & LEGEND
C-3	EXISTING CONDITIONS
C-4	SITE PLAN
C-5	GRADING PLAN
C-6	UTILITIES PLAN
C-7	UTILITY PROFILE
C-8	EROSION & SEDIMENTATION CONTROL PLAN
C-9 – C-13	CONSTRUCTION DETAILS
E-1	LIGHTING PLAN
L-1	LANDSCAPE PLAN



WAIVER REQUESTS:

THE FOLLOWING WAIVERS ARE REQUESTED FROM THE CITY OF AMESBURY ZONING ORDINANCE:

- 1) WAIVER FROM SECTION VII G. (OFF STREET PARKING AND LOADING REGULATIONS) OF THE CITY OF AMESBURY ZONING ORDINANCE FOR THE REQUIRED NUMBER OF PARKING SPACES. (120 PARKING SPACES REQUIRED, 99 PROPOSED)
- 2) WAIVER FROM SECTION 8.04A.10F OF THE AMESBURY SUBDIVISION RULES AND REGULATIONS REQUIRING THE USE OF RCP PIPE FOR THE DRAINAGE SYSTEM. HDPE PIPE IS PROPOSED.
- 3) WAIVER FROM SECTION 8.04A.1 OF THE AMESBURY SUBDIVISION RULES AND REGULATIONS REQUIRING A MINIMUM OF 3 FEET OF COVER OVER DRAINAGE PIPES. LESS THAN 3 FEET OF COVER IS PROPOSED.



PREPARED FOR
14 MERRIMAC STREET, LLC
2 MERRIMAC STREET
AMESBURY, MA 01913

NO.	DATE	DESCRIPTION	BY
1	7/24/24	RESPONSE TO PEER REVIEW	J.T.M.



MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

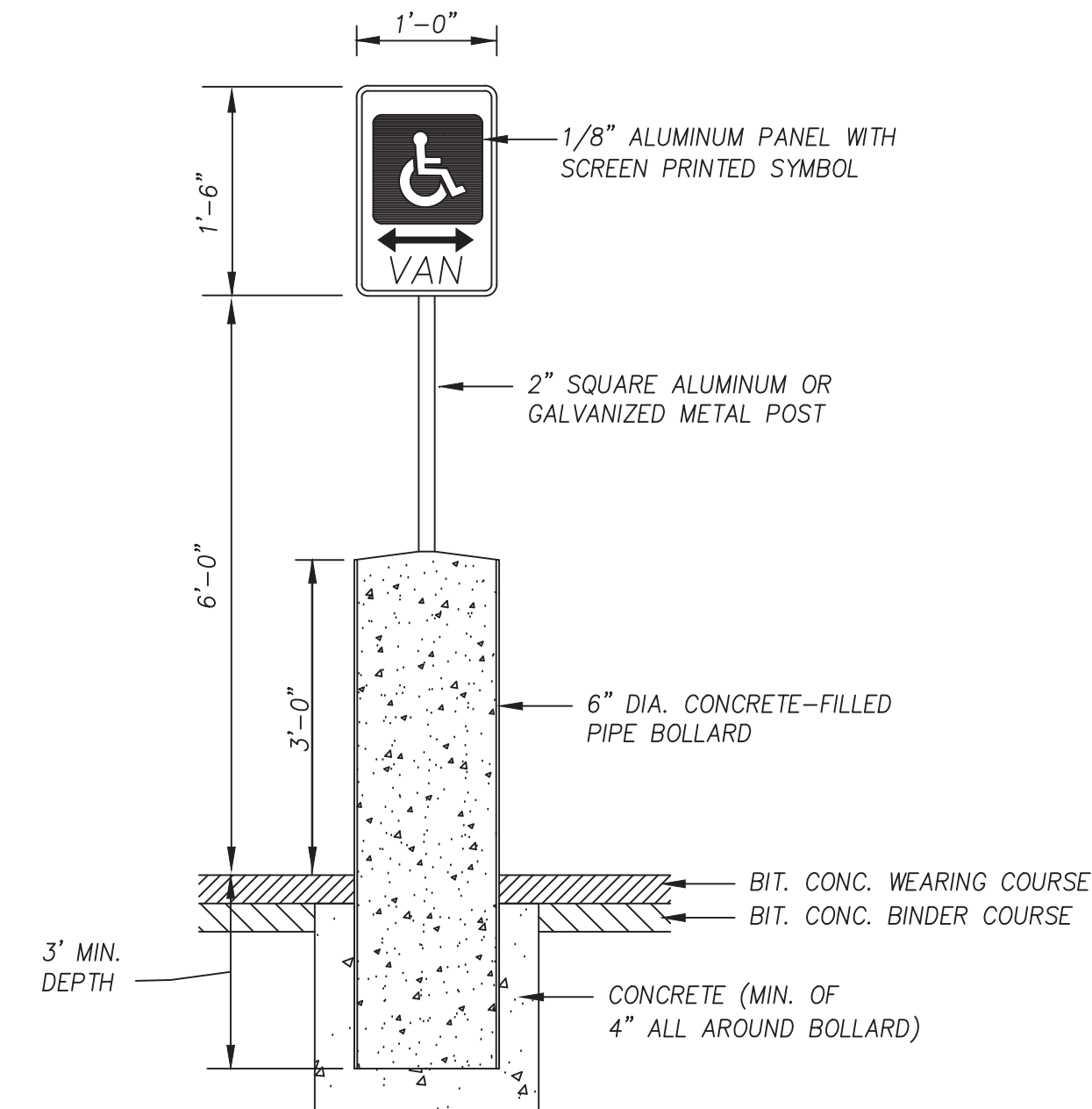
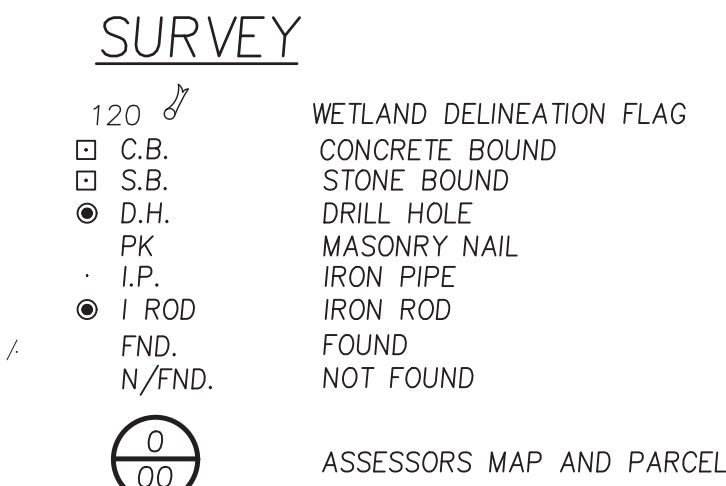
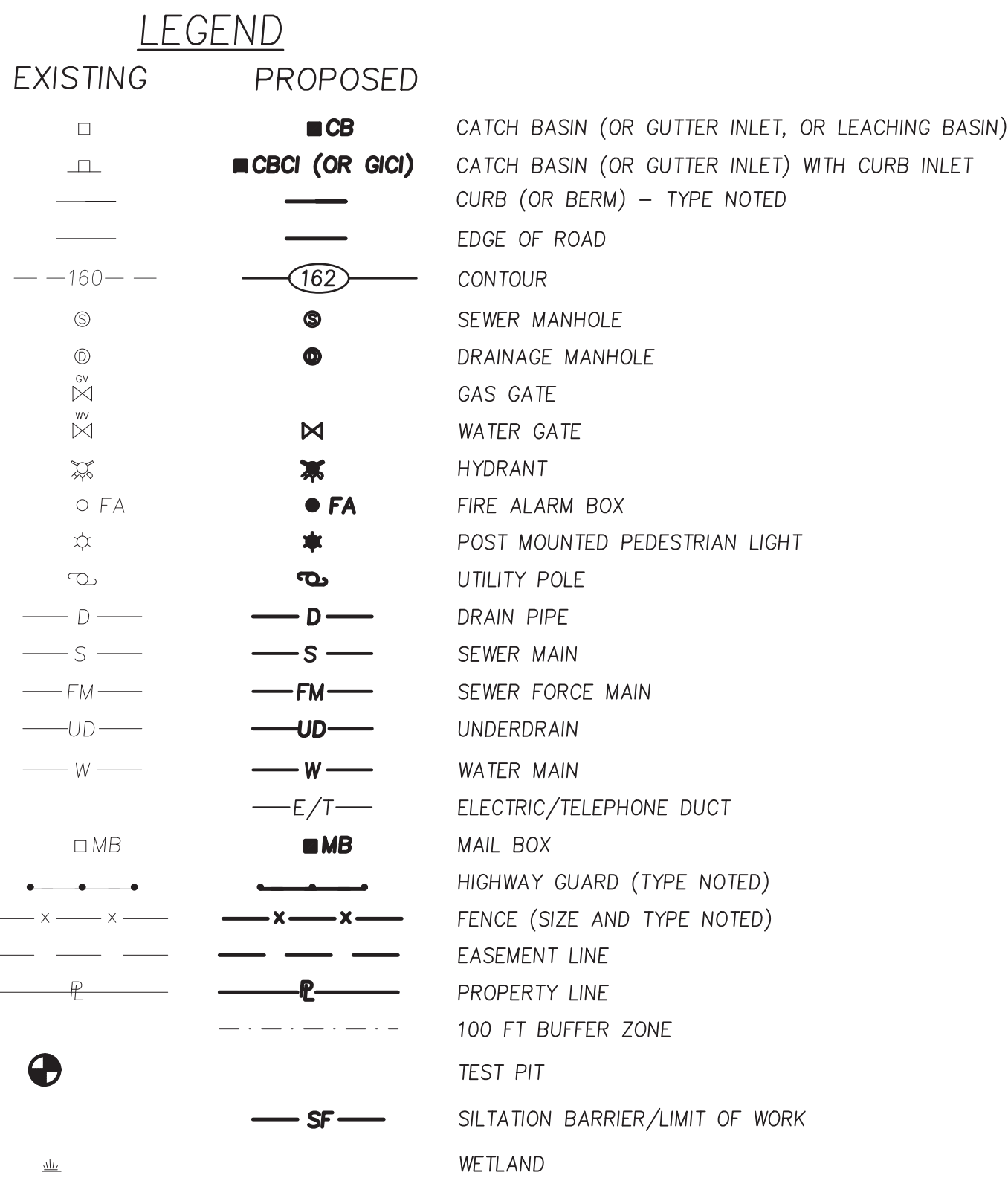
DATE: MAR. 11, 2024
CALC. BY: S.R.C.
CHKD. BY: J.T.M.
PROJECT: M214054

SITE PLAN
IN
AMESBURY, MA

AT
13 & 14 MERRIMAC STREET

**COVER
SHEET**

SHEET: C-1



**HANDICAP PARKING VAN-ACCESSIBLE
SIGN DETAIL**

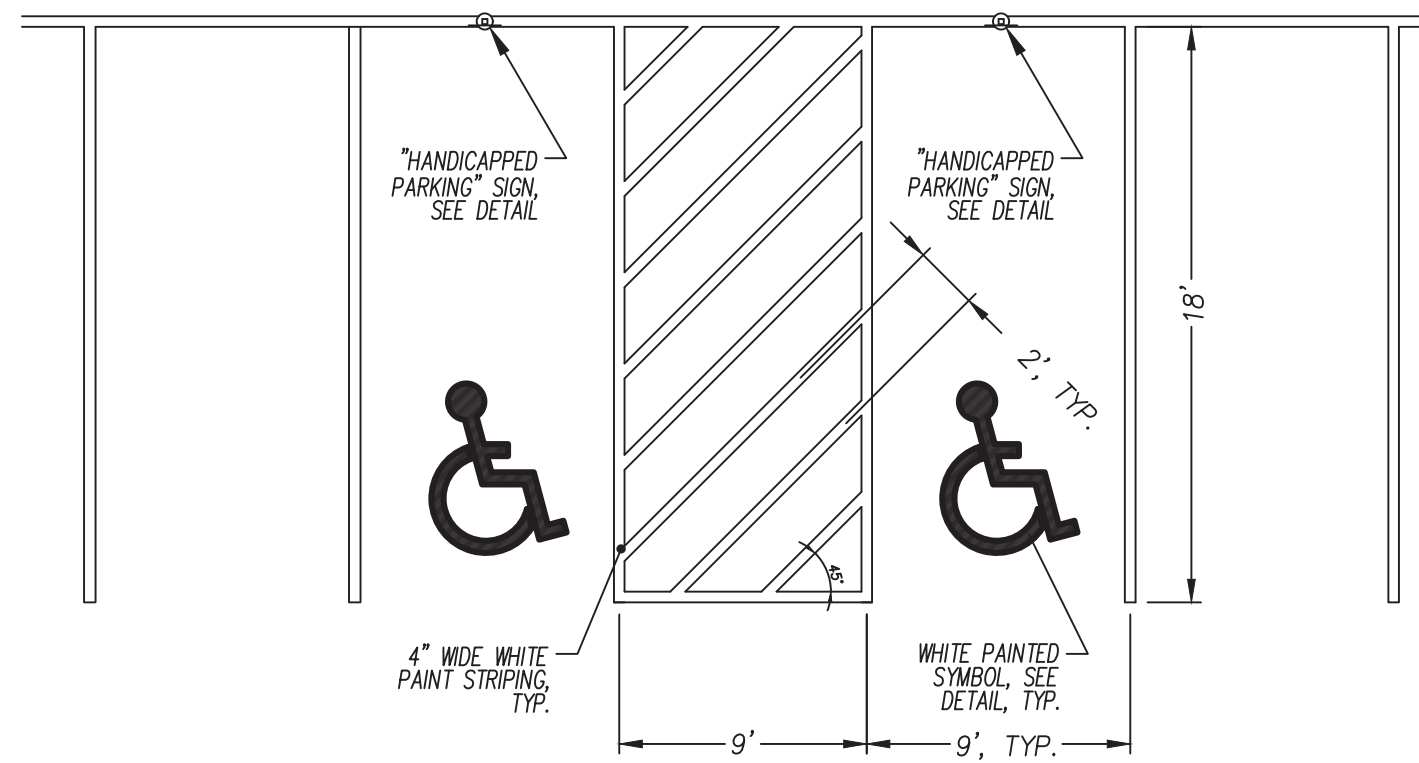
N.T.S.

- THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS. ANY PROPOSED REVISIONS TO THE WORK SHALL NOT BE UNDERTAKEN UNTIL REVIEWED AND APPROVED BY THE OWNER AND REGULATING CITY AND/OR STATE AGENCIES.
- THE CONTRACTOR SHALL INSTALL ALL SYSTEM COMPONENTS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND ALL APPLICABLE ELECTRICAL, PLUMBING, AND SANITARY CODES.
- ALL WORK SHALL CONFORM TO; THE CITY OF AMESBURY SUBDIVISION RULES AND REGULATIONS, THE CITY OF AMESBURY CONSTRUCTION STANDARDS AND DETAILS, THE WETLANDS PROTECTION ACT (310 CMR 10.00), THE ORDER OF CONDITIONS ISSUED BY THE AMESBURY CONSERVATION COMMISSION; NPDES CONSTRUCTION GENERAL PERMIT; AND THESE PLANS.
- THE LOCATION OF ALL UTILITIES, AS SHOWN ON THESE PLANS, ARE BASED UPON PLANS AND RECORD INFORMATION PROVIDED BY MUNICIPAL AND PRIVATE UTILITY COMPANIES AND ARE CONSIDERED APPROXIMATE BOTH AS TO SIZE AND LOCATION. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL NOT RELY ON THESE PLANS FOR SUCH INFORMATION AND SHALL MAKE EXAMINATIONS IN THE FIELD BY VARIOUS AVAILABLE RECORDS, UTILITY COMPANIES AND INDIVIDUALS, AS TO THE LOCATION OF ALL SUBSURFACE STRUCTURES.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BY CONTACTING "DIG-SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION. DIG-SAFE TELEPHONE NUMBER: 1-888-344-7233.
- THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE NEW WORK. HE/SHE SHALL EXCAVATE TO VERIFY PERTINENT DRAINAGE INVERTS AND POTENTIAL UTILITY CONFLICTS. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER IMMEDIATELY.
- ALL EXISTING STRUCTURES AND SURFACES, UNLESS OTHERWISE SHOWN, SHALL BE COMPLETELY REMOVED FROM THE AREAS OF WORK. ALL TREES SCHEDULED FOR REMOVAL SHALL BE FIELD MARKED AND APPROVED FOR REMOVAL BY THE OWNER PRIOR TO CUTTING OPERATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THE PUBLIC, EMPLOYEES, AND ALL OTHER PERSONS ASSOCIATED WITH THE PROJECT. HE/SHE SHALL COORDINATE AND BE RESPONSIBLE FOR ALL SAFETY SIGNING, BARRIERS AND TEMPORARY PAVEMENT MARKINGS NECESSARY TO PROVIDE A SMOOTH AND PROPER TRANSITION FOR TRAFFIC FLOW.

MATERIAL NOTES

ALL MATERIALS OF THE ELEMENTS IN THE SITE PLAN MUST CONFORM TO THE FOLLOWING STANDARDS:

- COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES (LATEST EDITION)
- 521 CMR RULES AND REGULATIONS OF THE ARCHITECTURAL ACCESS BOARD (AAB) AND THE AMERICANS WITH DISABILITIES ACT (ADA)
- SPECIFICATIONS BY THE CITY OF AMESBURY AS SET FORTH BY DESIGN STANDARDS IN THE PLANNING BOARD RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, DATED NOVEMBER 1, 2013
- UTILITIES INSTALLED PER CITY OF AMESBURY WATER DIVISION CONSTRUCTION DETAILS



**HANDICAP PARKING
DETAIL**

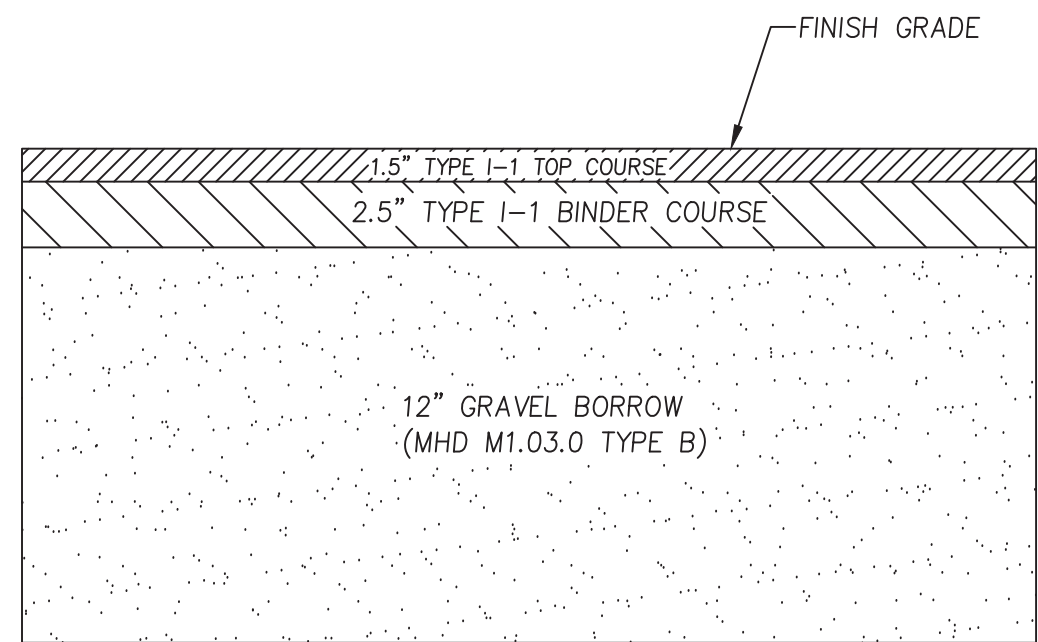
N.T.S.

GENERAL NOTES

- IF REQUIRED BY THE CONTRACTOR, OVERHEAD LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT THE CONTRACTORS EXPENSE.
- AREAS OUTSIDE THE LIMITS OF WORK (EROSION CONTROL/SILT FENCE LOCATIONS) DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.
- ALL SEWER MAINS SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM PROPOSED WATER MAINS AND SHALL MAINTAIN 5 FEET OF COVER OVER THE TOP OF THE PIPING, UNLESS OTHERWISE SHOWN OR APPROVED.
- ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 5 FEET OF COVER OVER THE TOP OF THE PIPE, UNLESS OTHERWISE SHOWN OR APPROVED.
- WHENEVER SEWER MAINS MUST CROSS WATER MAINS, THE SEWER SHALL BE CONSTRUCTED AS FOLLOWS; 6" THICK CONCRETE ENCASEMENTS EXTENDING 10' EITHER SIDE OF THE CROSSING.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND/OR SEDIMENT CONTROLS DURING CONSTRUCTION. HE/SHE SHALL INSPECT CONTROLS WEEKLY AND AFTER ALL STORM EVENTS. REPAIRS, IF REQUIRED, SHALL BE MADE IMMEDIATELY.
- 14 DAYS PRIOR TO COMMENCING CONSTRUCTION, THE OWNER/DEVELOPER SHALL PRESENT A CONSTRUCTION SCHEDULE TO THE THE CITY OF AMESBURY PLANNING BOARD.
- TWO HARD COPIES OF AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE THE CITY OF AMESBURY PLANNING BOARD UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL INCLUDE ALL LANDBASE AND UTILITIES INFORMATION.
- ONSITE BURIAL OF STUMPS OR ANY OTHER DEBRIS IS PROHIBITED.
- ELEVATIONS ARE BASED UPON 1988 NAVD DATUM.

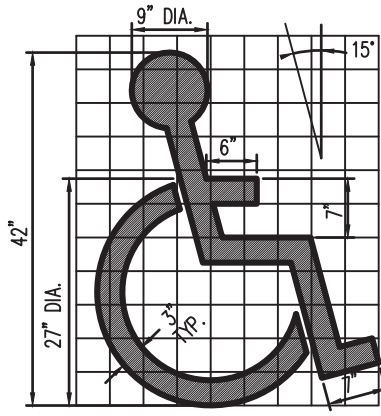
PAVEMENT NOTES

- ALL STUMPS, ROCKS AND LEDGE WITHIN THE LIMITS OF THE PROPOSED PAVED WAY SHALL BE REMOVED. ALL LEDGE SHALL BE REMOVED TO A MINIMUM DEPTH OF 2' BELOW FINISHED PAVEMENT GRADE.
- PAVEMENT SHALL NOT BE CONSTRUCTED DURING FREEZING WEATHER OR ON WET OR FROZEN SUBGRADE.
- GRADING AND ROLLING SHALL BE REQUIRED TO PROVIDE A SMOOTH, EVEN, AND UNIFORM COMPACTED BASE WHICH IS COMPACTED TO A MINIMUM DRY DENSITY OF 95 PERCENT.
- ALL UNSUITABLE MATERIAL SHALL BE EXCAVATED AND REPLACED WITH SATISFACTORY MATERIAL AND BROUGHT UP TO GRADE WITH GRAVEL BORROW CONTAINING NO STONES GREATER THAN 6" DIAMETER.
- AT ALL TIMES DURING CONSTRUCTION, THE SUB-GRADE AND ALL DITCHES SHALL BE CONSTRUCTED AND MAINTAINED SO THAT THE TRACK WILL EFFECTIVELY BE DRAINED.
- THE CONTRACTOR SHALL REFER TO THE AMESBURY PLANNING BOARD RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND.



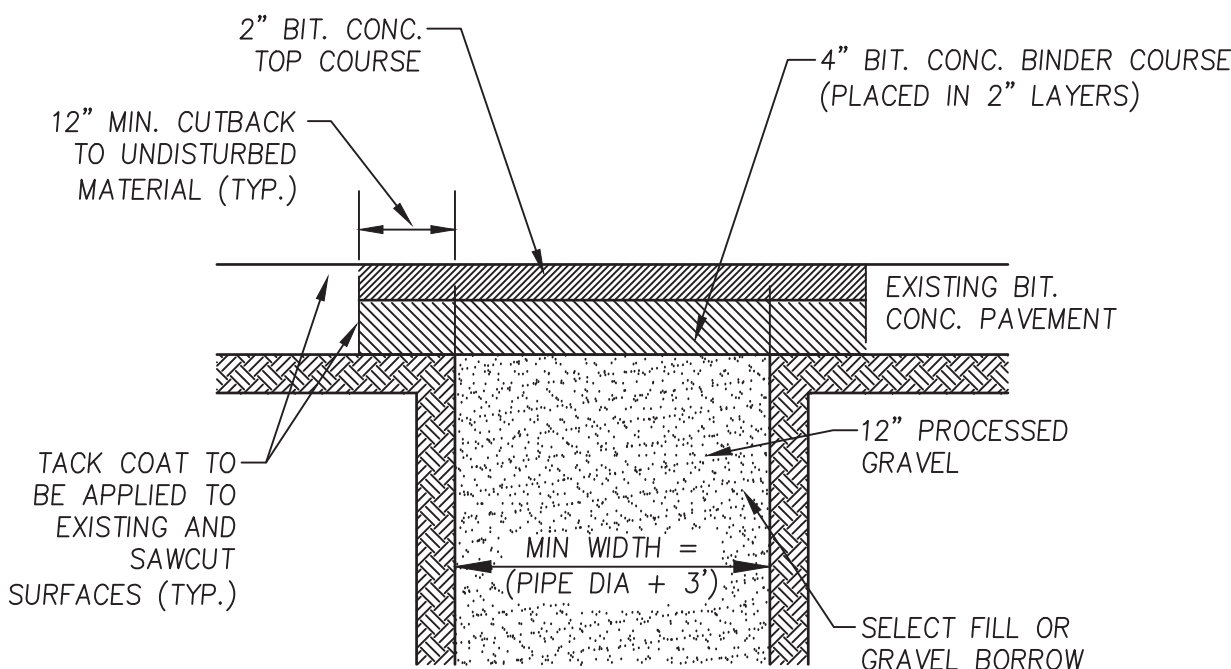
**PAVEMENT
DETAIL**

N.T.S.



**PAINTED HANDICAP
PARKING SYMBOL**

N.T.S.



**PERMANENT TRENCH
PATCH DETAIL**

N.T.S.

FOR REGISTRY USE

AMESBURY PLANNING
BOARD APPROVAL

DATE

CITY OF AMESBURY
OFFICE OF THE CITY OF THE CLERK

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I RECEIVED FROM THE AMESBURY PLANNING
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DATE



PREPARED FOR
14 MERRIMAC STREET, LLC
2 MERRIMAC STREET
AMESBURY, MA 01913



MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
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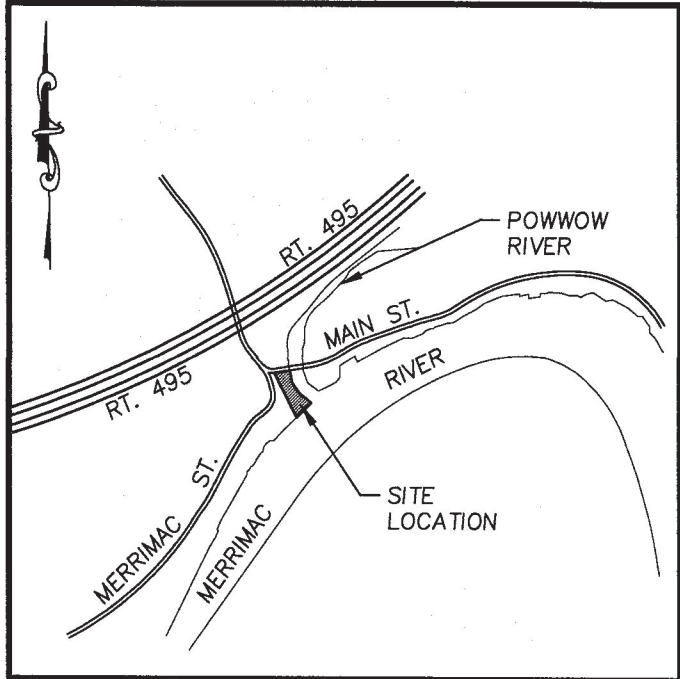
**SITE PLAN
IN
AMESBURY, MA**

AT
13 & 14 MERRIMAC STREET

**GENERAL
NOTES
&
LEGEND**

SHEET: C-2

1	7/24/24	RESPONSE TO PEER REVIEW	J.T.M.	SCALE: AS NOTED	CALC. BY: S.R.C.	PROJECT: M214054
NO.	DATE	DESCRIPTION	BY	DATE: MAR. 11, 2024	CHKD. BY: J.T.M.	



LOCUS MAP
N.T.S.

ZONING TABLE

#2 / 14, & #13 MERRIMAC STREET - ASSESSORS MAP 88 LOT 1 & 82 ZONING DISTRICT R-20			
	REQUIRED	#2 / 14	#13
LOT AREA:	20,000 S.F.	70,903 S.F.	18,281 S.F.
LOT FRONTAGE:	125 FT	440.29 FT	110.06 FT
FRONT SETBACK:	40 FT	7.7 FT	2.0 FT
SIDE SETBACK:	20 FT	9.0 FT	13.4 FT
REAR SETBACK:	40 FT	14.3 FT	5.6 FT
LOT COVERAGE:	20%	28.3%	5.4%
OPEN SPACE:	50%	14.8%	57.3%
BLDG HEIGHT:	35 FT	< 35 FT	< 35 FT

#13 MERRIMAC STREET		
LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	68.06	S13°36'55"E
L2	28.00	S08°47'12"E
L3	14.00	S09°47'02"W
L4	36.20	S68°19'08"W
L5	67.95	N22°39'44"W
L6	125.47	S66°31'03"W
L7	105.00	N49°21'00"W
L8	118.01	N66°59'16"E
L9	25.00	S28°01'41"E
L10	59.00	N74°32'47"E
L11	15.50	S22°24'12"E
L12	55.41	N74°54'28"E

#2 & 14 MERRIMAC STREET		
LINE TABLE		
LINE #	LENGTH	DIRECTION
L13	20.14	N54°56'09"E
L14	216.69	N15°09'35"W
L15	41.20	N12°13'54"W
L16	154.56	N80°42'06"E
L17	172.69	S09°17'19"E
L18	48.85	S83°52'45"E
L19	128.12	S47°41'18"E
L20	245.85	S48°56'50"W
L21	12.00	S28°11'51"E
L22	20.20	S53°35'56"W
L23	175.02	N28°11'45"W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	7.70	4.8	092°56'00"

BASIS OF BEARINGS
MASSACHUSETTS STATE PLANE
COORDINATE SYSTEM
NAD-83

OWNER OF RECORD

- 88 1 14 MERRIMAC STREET LLC
BK. 37984 PG. 435
- 88 82 13 MERRIMAC STREET LLC
BK. 38749 PG. 29

PLAN REFERENCES

E.C.L.O. #1285
E.C.L.O. #2223
E.C.L.O. #2297
PLAN 405 OF 1953
PLAN BOOK 117 PLAN 6
CAMMETT ENGINEERING JOB 06118
PERIMETER SURVEY
CALDERWOOD 13 MERRIMAC STREET
AMESBURY, MA
(NOT RECORDED)

WETLAND DELINEATED BY:
RIMMER ENVIRONMENTAL
CONSULTING
30 GREEN STREET
NEWBURY, MA 01950
(978) 463-9226
(DELINEATED ON: FEBRUARY 2024)

LEGEND

- C.B. CONCRETE BOUND
- S.B. STONE BOUND
- D.H. DRILL HOLE
- PK MASONRY NAIL
- I.P. IRON PIPE
- I ROD IRON ROD
- FND FOUND
- N/F NOW OR FORMERLY
- T.B. TELEPHONE BOX
- E.B. ELECTRIC BOX
- H.H. ELECTRIC HANDHOLE
- LP LIGHTPOLE
- UPOLE UTILITY POLE
- D DRAINAGE
- W WATER
- S SEWER
- G GAS
- OHW OVERHEAD WIRE
- UGT UNDERGROUND TELEPHONE
- UGE UNDERGROUND ELECTRIC
- SF SILT FENCE
- 15X5 SPOT GRADE
- CB CATCH BASIN
- DMH DRAIN MANHOLE
- SMH SEWER MANHOLE
- TMH TELEPHONE MANHOLE
- EMH ELECTRIC MANHOLE
- W WELL
- HYDRANT
- GAS VALVE
- GAS SHUT OFF
- WATER SHUT OFF
- WATER VALVE
- CONIFEROUS TREE
- DECIDUOUS TREE
- ASSESSORS MAP#
- PARCEL#

NOTES:

THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT, VISIBLE USES OF THE LAND; HOWEVER, THIS DOES NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.

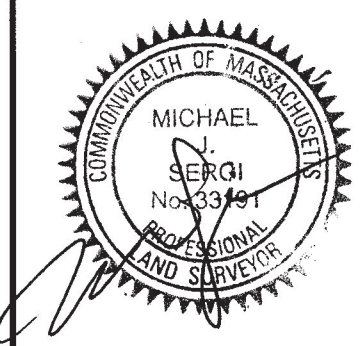
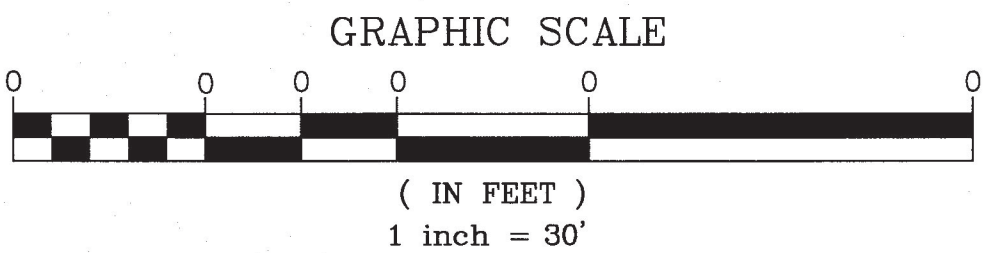
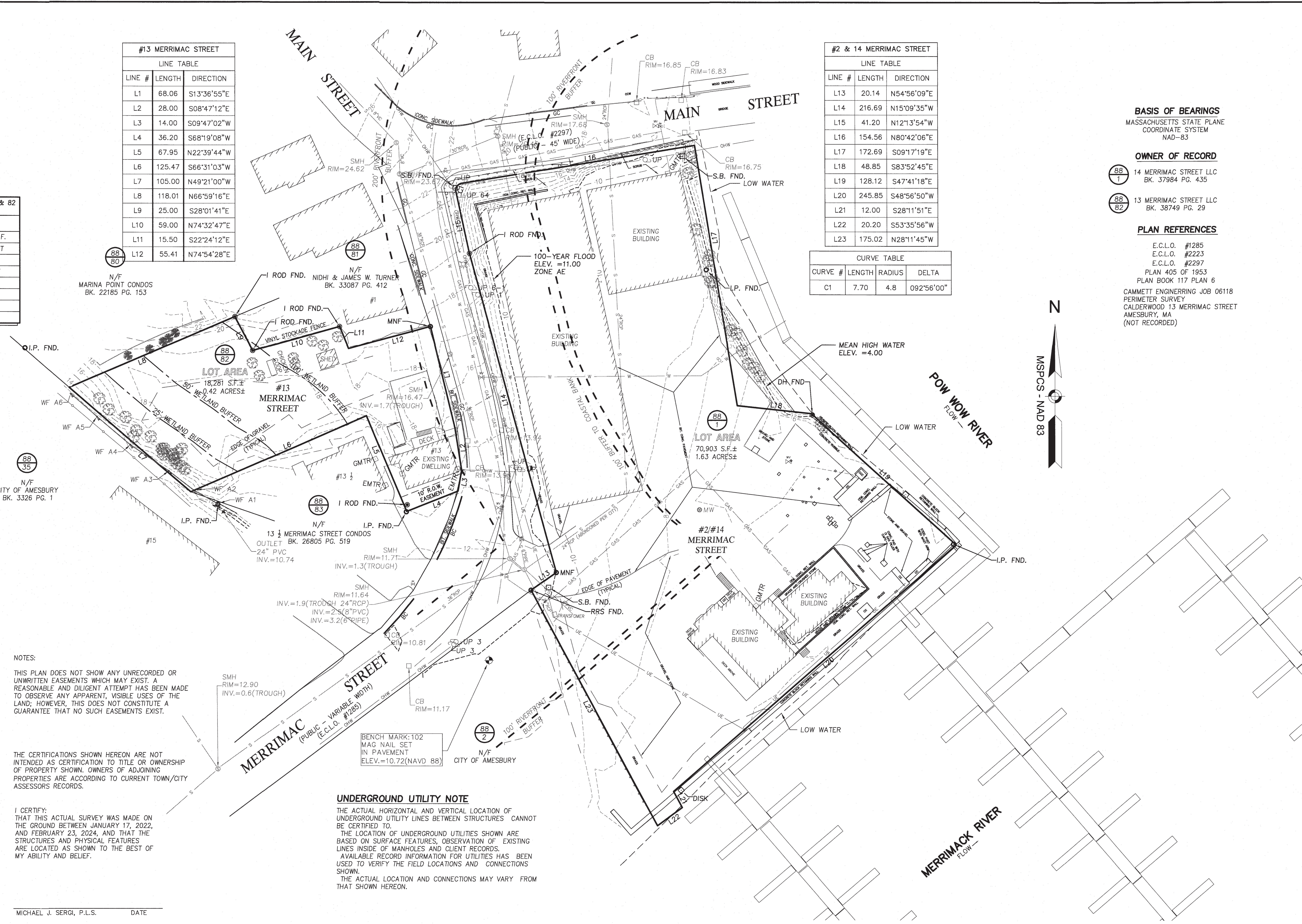
THE CERTIFICATIONS SHOWN HEREON ARE NOT INTENDED AS CERTIFICATION TO TITLE OR OWNERSHIP OF PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT TOWN/CITY ASSESSORS RECORDS.

I CERTIFY:
THAT THIS ACTUAL SURVEY WAS MADE ON
THE GROUND BETWEEN JANUARY 17, 2022,
AND FEBRUARY 23, 2024, AND THAT THE
STRUCTURES AND PHYSICAL FEATURES
ARE LOCATED AS SHOWN TO THE BEST OF
MY ABILITY AND BELIEF.

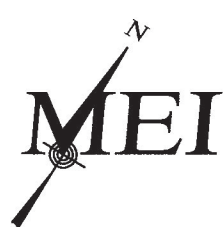
MICHAEL J. SERGI, P.L.S. DATE

UNDERGROUND UTILITY NOTE

THE ACTUAL HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITY LINES BETWEEN STRUCTURES CANNOT BE CERTIFIED TO.
THE LOCATION OF UNDERGROUND UTILITIES SHOWN ARE BASED ON SURFACE FEATURES, OBSERVATION OF EXISTING LINES INSIDE OF MANHOLES AND CLIENT RECORDS.
AVAILABLE RECORD INFORMATION FOR UTILITIES HAS BEEN USED TO VERIFY THE FIELD LOCATIONS AND CONNECTIONS SHOWN.
THE ACTUAL LOCATION AND CONNECTIONS MAY VARY FROM THAT SHOWN HEREON.



PREPARED FOR
14 MERRIMAC STREET, LLC
2 MERRIMAC STREET
AMESBURY, MA 01913



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62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
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SITE PLAN
IN
AMESBURY, MA
AT
2 & 13 MERRIMAC STREET

**EXISTING
CONDITIONS
PLAN**

SHEET: C-3

NO.	DATE	DESCRIPTION	BY
1	7/24/24	RESPONSE TO PEER REVIEW	J.T.M.

SCALE: 1"=30'	CALC. BY: P.D.B.	PROJECT: M214054
DATE: MAR. 11, 2024	CHKD. BY: J.S.H.	

ZONING TABLE			
#2 / 14, & #13 MERRIMAC STREET — ASSESSORS MAP 88 LOT 1 & 82 ZONING DISTRICT R-20			
	REQUIRED	PROP. #2 / 14	PROP. #13
LOT AREA:	20,000 S.F.	70,903 S.F.	18,281 S.F.
LOT FRONTAGE:	125 FT	440.29 FT	110.06 FT
FRONT SETBACK:	40 FT	70.7 FT	2.0 FT
SIDE SETBACK:	20 FT	21 FT	13 FT
REAR SETBACK:	40 FT	40.6 FT	2.5 FT
LOT COVERAGE:	20%	10.3%	8%
OPEN SPACE:	50%	20.0%	59.1%
BLDG HEIGHT:	35 FT	30.6 FT	35 FT
MAX STORIES:	2.5	2	2.5
MAX. BLDG AREA	20%	13.8%	4.7%

PARKING SPACE CALCS.

USE	# OF SPACES REQUIRED
MARINA	0.9 SPACES PER SLIP
RESTAURANT	1 SPACE PER 4 SEATS

MARINA
96 SLIPS
NUMBER OF SPACES REQUIRED = 87

RESTAURANT
120 SEATS
NUMBER OF SPACES REQUIRED = 30

TOTAL NUMBER OF SPACES REQUIRED = 117
NUMBER OF SPACES PROVIDED = 99

OPEN SPACE CALCS.

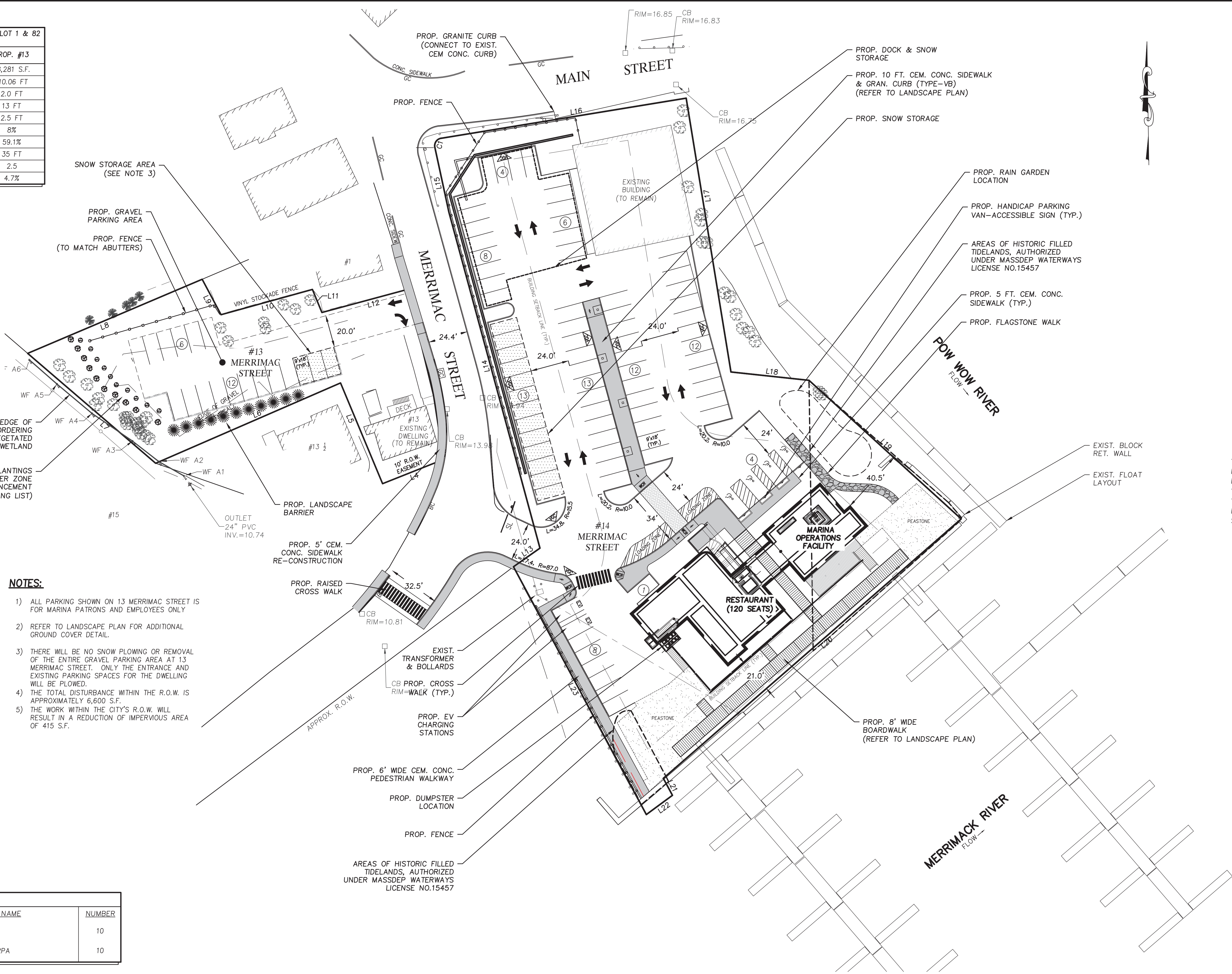
2 MERRIMAC STREET
EXISTING OPEN SPACE = 9,438 S.F.
PROPOSED OPEN SPACE = 14,060 S.F.
NET OPEN SPACE = +4,622 S.F.

13 MERRIMAC STREET
EXISTING OPEN SPACE = 10,485 S.F.
PROPOSED OPEN SPACE = 8,824 S.F.
NET OPEN SPACE = -1,661 S.F.

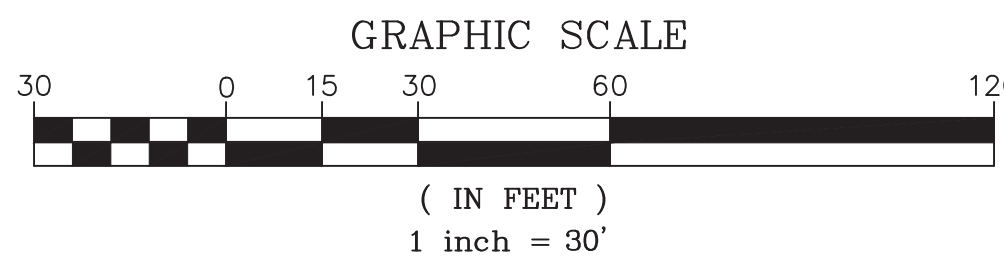
*TOTAL NET OPEN SPACE = +2,961 S.F.

RIVERFRONT CALCULATIONS		
2 MERRIMAC STREET		
EXISTING CONDITIONS		
	0'-100'	100'-200'
IMPERVIOUS AREA	44,648 S.F.	16,181 S.F.
LANDSCAPING	5,623 S.F.	4,451 S.F.
PROPOSED CONDITIONS		
	0'-100'	100'-200'
IMPERVIOUS AREA	36,089 S.F.	17,446 S.F.
LANDSCAPING	14,182 S.F.	3,186 S.F.
13 MERRIMAC STREET		
EXISTING CONDITIONS		
	0'-100'	100'-200'
IMPERVIOUS AREA	0 S.F.	246 S.F.
LANDSCAPING	0 S.F.	558 S.F.
PROPOSED CONDITIONS		
	0'-100'	100'-200'
IMPERVIOUS AREA	0 S.F.	246 S.F.
LANDSCAPING	0 S.F.	558 S.F.

BUFFER ZONE PLANT LIST			
SYMBOL	COMMON NAME	LATIN NAME	NUMBER
⊗	SILKY DOGWOOD	CORNUS AMOMUM	10
⊙	BLACK CHOKEBERRY	ARONIA MELANOCARPA	10



- NOTES:**
- 1) ALL PARKING SHOWN ON 13 MERRIMAC STREET IS FOR MARINA PATRONS AND EMPLOYEES ONLY
 - 2) REFER TO LANDSCAPE PLAN FOR ADDITIONAL GROUND COVER DETAIL.
 - 3) THERE WILL BE NO SNOW PLOWING OR REMOVAL OF THE ENTIRE GRAVEL PARKING AREA AT 13 MERRIMAC STREET. ONLY THE ENTRANCE AND EXISTING PARKING SPACES FOR THE DWELLING WILL BE PLOWED.
 - 4) THE TOTAL DISTURBANCE WITHIN THE R.O.W. IS APPROXIMATELY 6,600 S.F.
 - 5) THE WORK WITHIN THE CITY'S R.O.W. WILL RESULT IN A REDUCTION OF IMPERVIOUS AREA OF 415 S.F.



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2 MERRIMAC STREET
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NO.	DATE	DESCRIPTION	BY
1	7/24/24	RESPONSE TO PEER REVIEW	J.T.M.



MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=30'	CALC. BY: S.R.C.	PROJECT: M214054
DATE: MAR. 11, 2024	CHKD. BY: J.T.M.	

SITE PLAN
IN
AMESBURY, MA
AT
13 & 14 MERRIMAC STREET

SITE PLAN
SHEET: C-4

LIST OF INVERTS

PROP. CB 1
RIM=9.21
INV. OUT=6.21

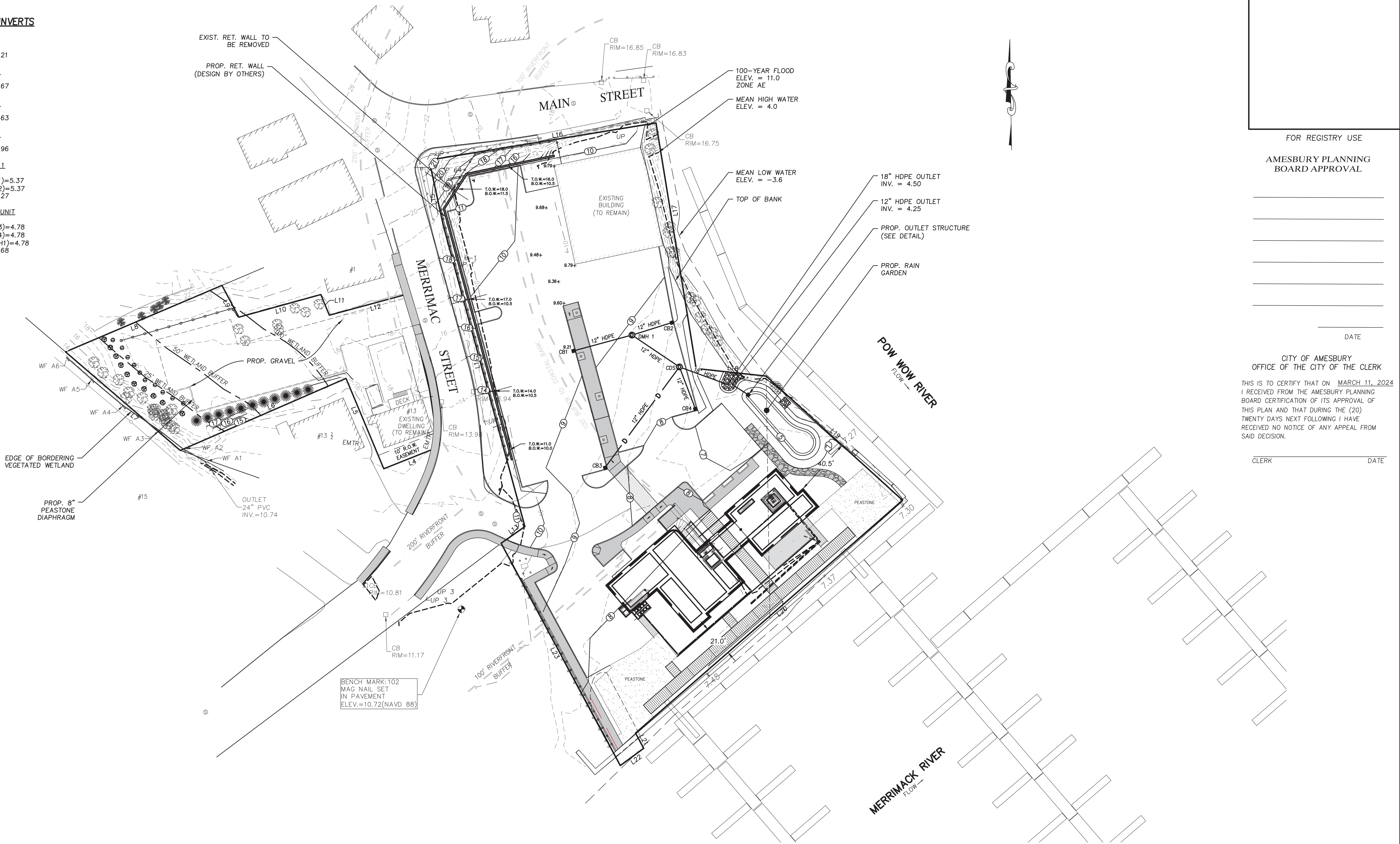
PROP. CB 2
RIM=8.67
INV. OUT=5.67

PROP. CB 3
RIM=8.65
INV. OUT=5.63

PROP. CB 4
RIM=8.00
INV. OUT=4.96

PROP. DMH 1
RIM=8.90
INV. IN (CB1)=5.37
INV. IN (CB2)=5.37
INV. OUT=5.27

PROP. CDS UNIT
RIM=8.37
INV. IN (CB3)=4.78
INV. IN (CB4)=4.78
INV. IN (DMH1)=4.78
INV. OUT=4.68



FOR REGISTRY USE

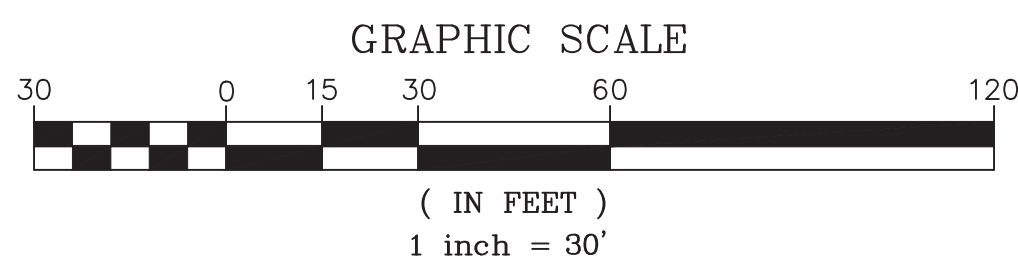
AMESBURY PLANNING
BOARD APPROVAL

DATE

CITY OF AMESBURY
OFFICE OF THE CITY OF THE CLERK

THIS IS TO CERTIFY THAT ON MARCH 11, 2024
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SAID DECISION.

CLERK DATE



PREPARED FOR
14 MERRIMACK STREET, LLC
2 MERRIMACK STREET
AMESBURY, MA 01913

NO.	DATE	DESCRIPTION	BY
1	7/24/24	RESPONSE TO PEER REVIEW	J.T.M.

**MILLENNIUM ENGINEERING, INC.**
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=30'	CALC. BY: S.R.C.	PROJECT: M214054
DATE: MAR. 11, 2024	CHKD. BY: J.T.M.	

SITE PLAN
IN
AMESBURY, MA
AT
13 & 14 MERRIMACK STREET

**GRADING &
DRAINAGE
PLAN**

SHEET: C-5

PROPOSED SEWER SYSTEM FLOW:

THE PROPOSED FLOWS FROM THE MARINA BUILDING AND RESTAURANT HAVE BEEN DERIVED FROM 310 CMR 15.00 (TITLE V).

MARINA OPERATIONS FACILITY:

10 GALLONS/DAY PER BOAT SLIP
96 BOAT SLIPS x 10 GALLONS/SLIP/DAY = 960 GALLONS/DAY

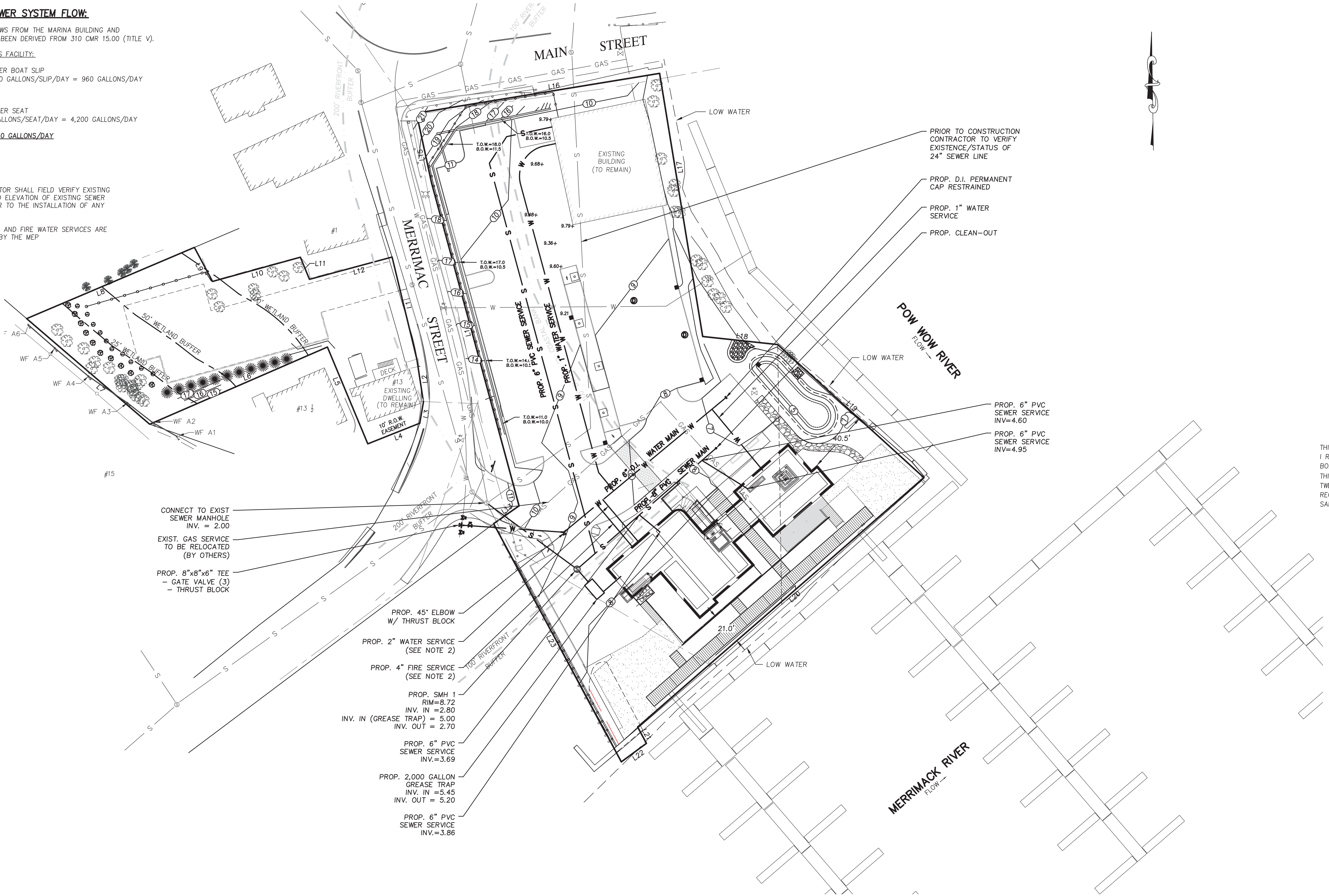
RESTAURANT:

35 GALLONS/DAY PER SEAT
120 SEATS x 35 GALLONS/SEAT/DAY = 4,200 GALLONS/DAY

TOTAL FLOW = 5,160 GALLONS/DAY

NOTES:

- 1) THE CONTRACTOR SHALL FIELD VERIFY EXISTING LOCATION AND ELEVATION OF EXISTING SEWER SERVICE PRIOR TO THE INSTALLATION OF ANY UTILITIES.
- 2) THE DOMESTIC AND FIRE WATER SERVICES ARE TO BE SIZED BY THE MEP



FOR REGISTRY USE

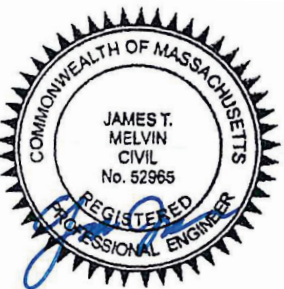
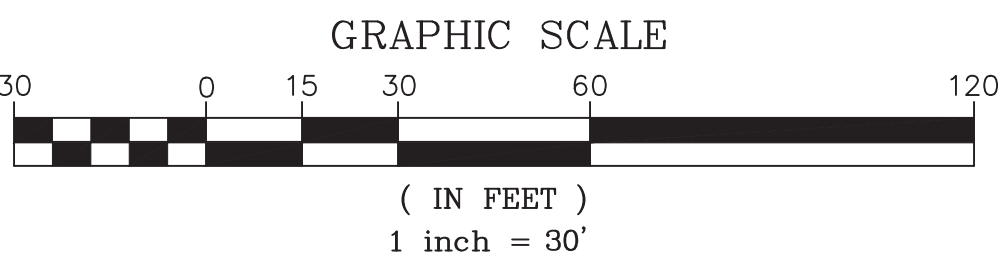
AMESBURY PLANNING BOARD APPROVAL

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2 MERRIMAC STREET
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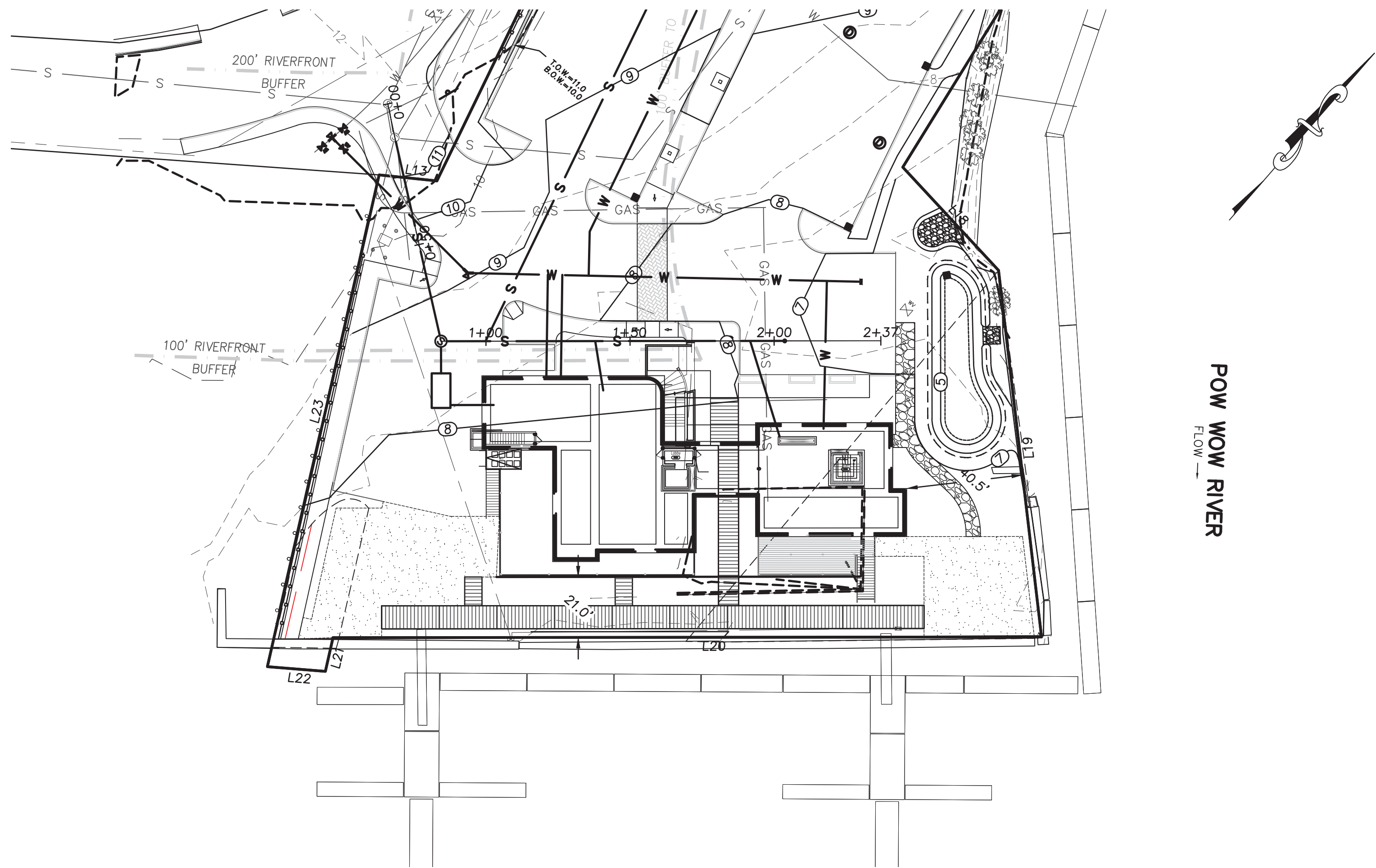
MILLENNIUM ENGINEERING, INC.
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13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=30'
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PROJECT: M214054

SITE PLAN
IN
AMESBURY, MA
AT
13 & 14 MERRIMAC STREET

UTILITIES PLAN

SHEET: C-6



FOR REGISTRY USE

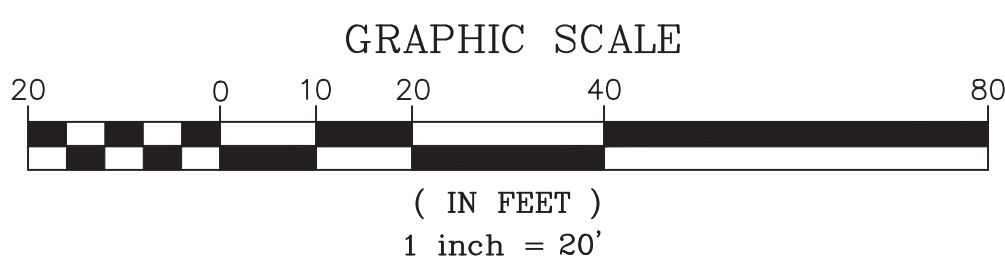
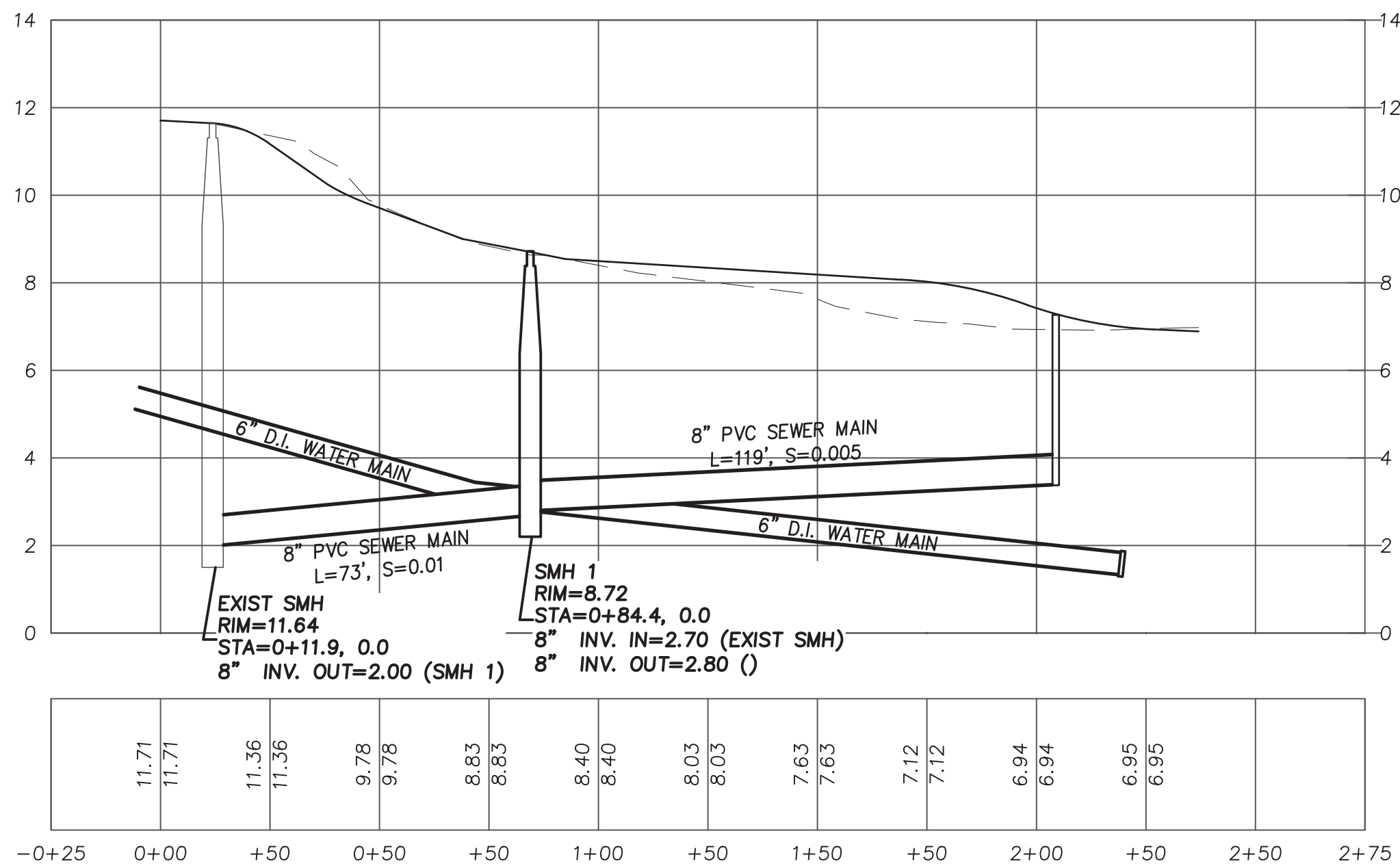
AMESBURY PLANNING
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2 MERRIMAC STREET
AMESBURY, MA 01913

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NO.	DATE	DESCRIPTION	BY	DATE: MAR. 11, 2024	CHKD. BY: J.T.M.



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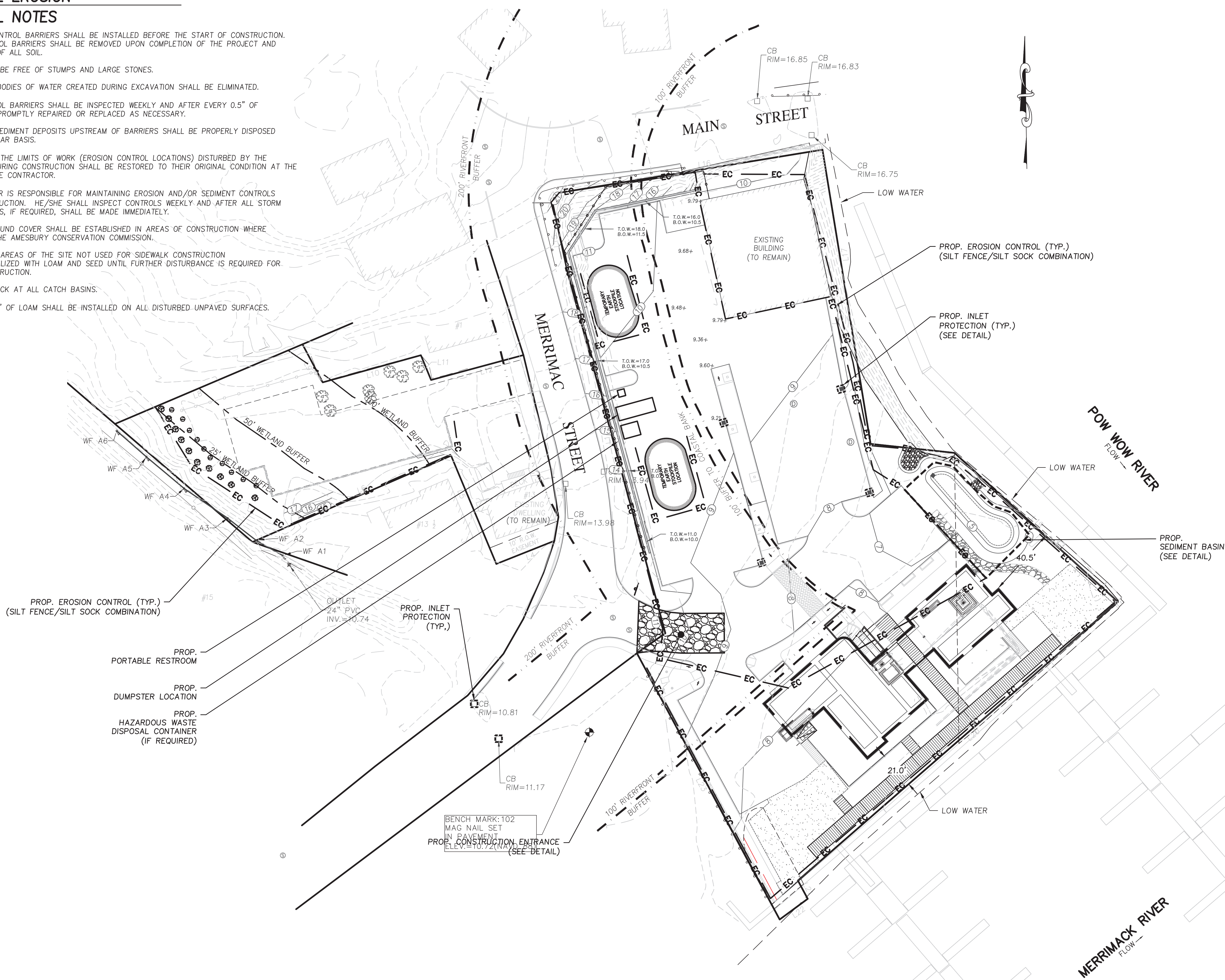
SITE PLAN
IN
AMESBURY, MA
AT
13 & 14 MERRIMAC STREET

**UTILITY
PROFILE**

SHEET: C-7

GENERAL EROSION
CONTROL NOTES

1. ALL EROSION CONTROL BARRIERS SHALL BE INSTALLED BEFORE THE START OF CONSTRUCTION. EROSION CONTROL BARRIERS SHALL BE REMOVED UPON COMPLETION OF THE PROJECT AND STABILIZATION OF ALL SOIL.
2. ALL FILL SHALL BE FREE OF STUMPS AND LARGE STONES.
3. ANY STANDING BODIES OF WATER CREATED DURING EXCAVATION SHALL BE ELIMINATED.
4. EROSION CONTROL BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EVERY 0.5" OF RAINFALL AND PROMPTLY REPAIRED OR REPLACED AS NECESSARY.
5. ACCUMULATED SEDIMENT DEPOSITS UPSTREAM OF BARRIERS SHALL BE PROPERLY DISPOSED OF ON A REGULAR BASIS.
6. AREAS OUTSIDE THE LIMITS OF WORK (EROSION CONTROL LOCATIONS) DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND/OR SEDIMENT CONTROLS DURING CONSTRUCTION. HE/SHE SHALL INSPECT CONTROLS WEEKLY AND AFTER ALL STORM EVENTS. REPAIRS, IF REQUIRED, SHALL BE MADE IMMEDIATELY.
8. TEMPORARY GROUND COVER SHALL BE ESTABLISHED IN AREAS OF CONSTRUCTION WHERE REQUIRED BY THE AMESBURY CONSERVATION COMMISSION.
9. ANY DISTURBED AREAS OF THE SITE NOT USED FOR SIDEWALK CONSTRUCTION SHALL BE STABILIZED WITH LOAM AND SEED UNTIL FURTHER DISTURBANCE IS REQUIRED FOR BUILDING CONSTRUCTION.
10. PROVIDE SILT SACK AT ALL CATCH BASINS.
11. A MINIMUM OF 4" OF LOAM SHALL BE INSTALLED ON ALL DISTURBED UNPAVED SURFACES.



FOR REGISTRY USE

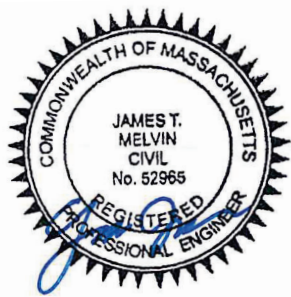
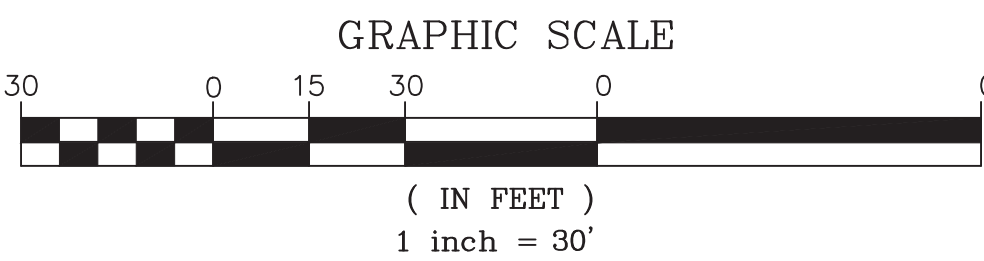
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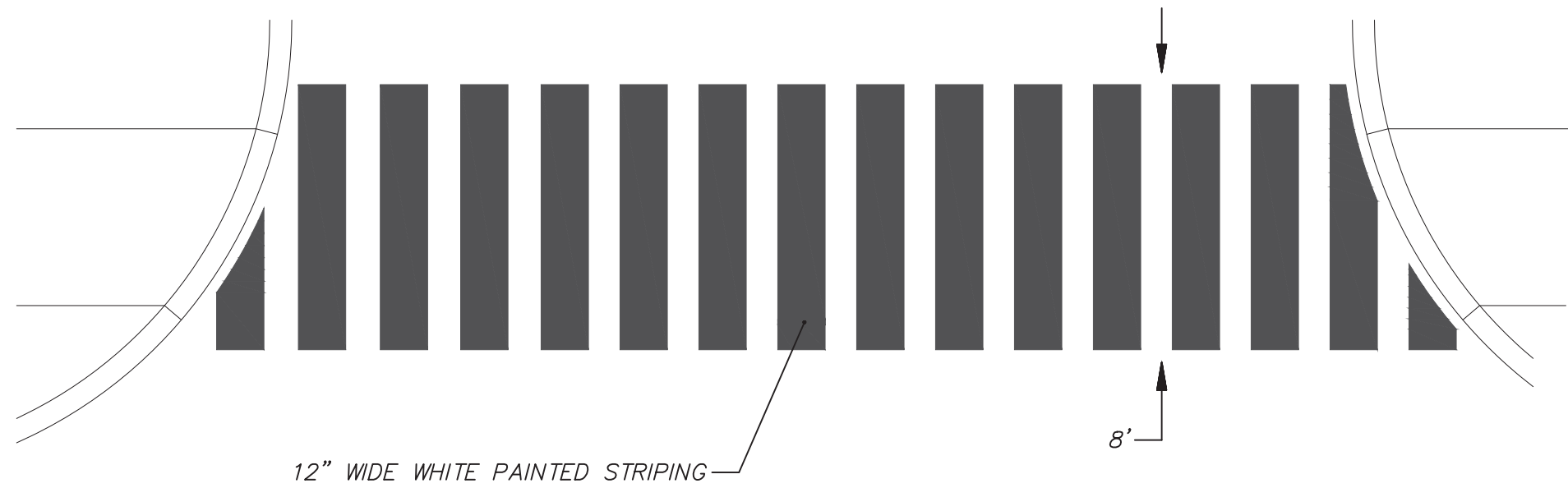
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DATE: MAR. 11, 2024
CALC. BY: S.R.C.
CHKD. BY: J.T.M.
PROJECT: M214054

SITE PLAN
IN
AMESBURY, MA

AT
13 & 14 MERRIMAC STREET

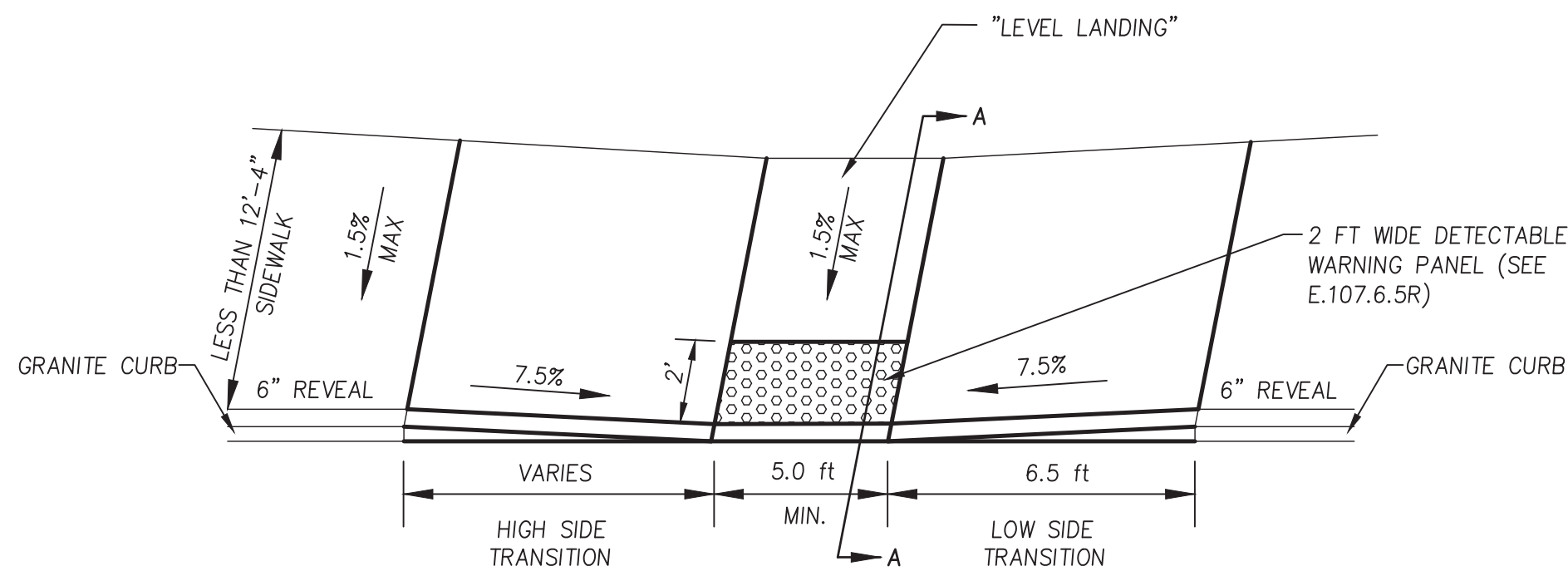
**EROSION
&
SEDIMENTATION
CONTROL
PLAN**

SHEET: C-8

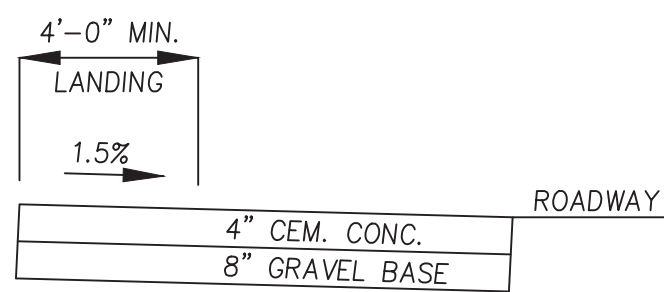


PAINTED CROSSWALK
DETAIL

N.T.S.



PLAN VIEW



SECTION A-A

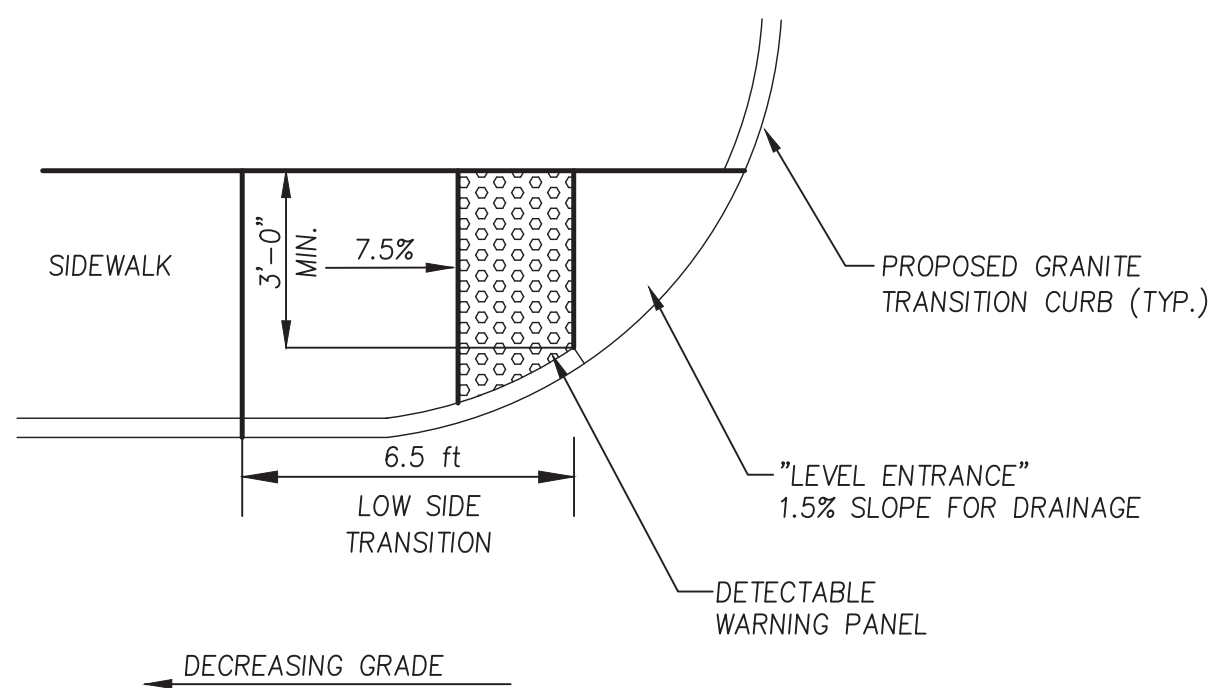
ROADWAY PROFILE GRADE		HIGH SIDE TRANSITION LENGTH ROUNDED LENGTH 4"	
%	G	ENGLISH UNITS	
0	0.00	6'-6"	
1	0.01	7'-8"	
2	0.02	9'-0"	
3	0.03	11'-0"	
4	0.04	14'-0"	
>4	>0.04	15'-0" MAX	

NOTES:

- 1.) RAMP CROSS SECTION TO BE SAME AS SIDEWALK; I.E. DEPTH OF SURFACE AND FOUNDATION.
- 2.) BASE OF RAMP SHALL MEET PAVEMENT GUTTER SUCH THAT THERE IS NO DIFFERENCE IN ELEVATION. RAMP SHALL BE CONSTRUCTED SUCH THAT WATER DOES NOT "PUDDLE" AT THE BASE OF THE RAMP.
- 3.) THE PAVEMENT AT THE BASE OF THE RAMP SHALL BE PART OF THE CONTINUOUS TOP COURSE. THE USE OF A "PAVEMENT PATCH" TO COMPLY WITH THE CONDITIONS IN NOTE 2, ABOVE IS PROHIBITED.
- 4.) RAMPS SHALL CONFORM TO MASS DOT WHEELCHAIR RAMP STANDARDS - LATEST REVISIONS.

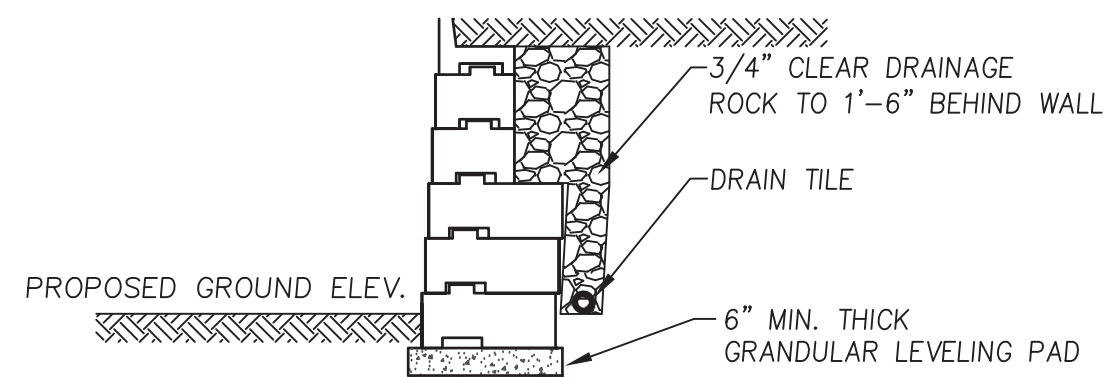
CEMENT CONCRETE WHEELCHAIR
RAMP DETAIL

N.T.S.



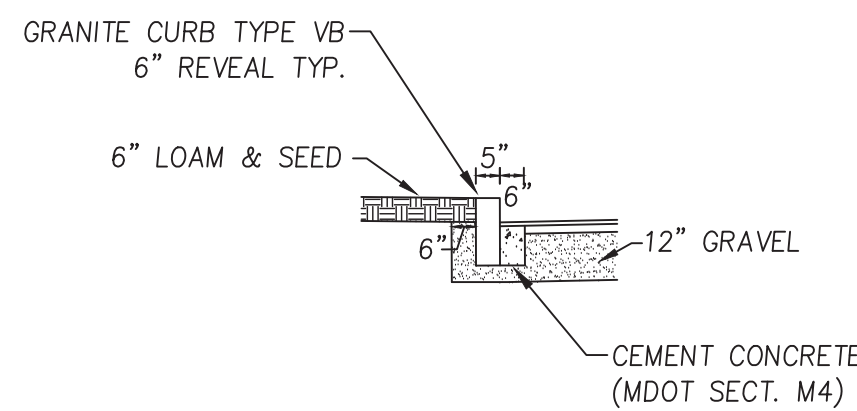
CEMENT CONCRETE WHEELCHAIR
RAMP DETAIL

N.T.S.



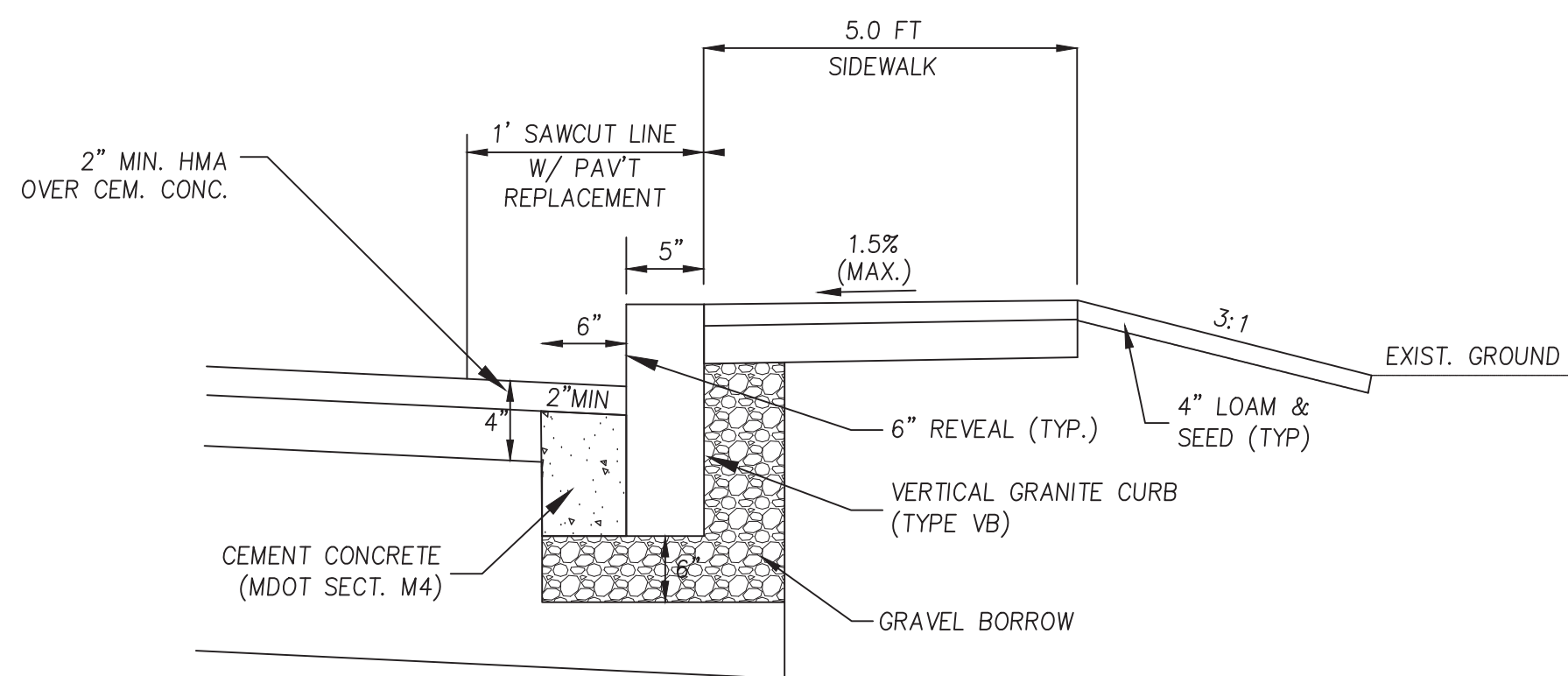
SEGMENTAL BLOCK
RETAINING WALL

N.T.S.



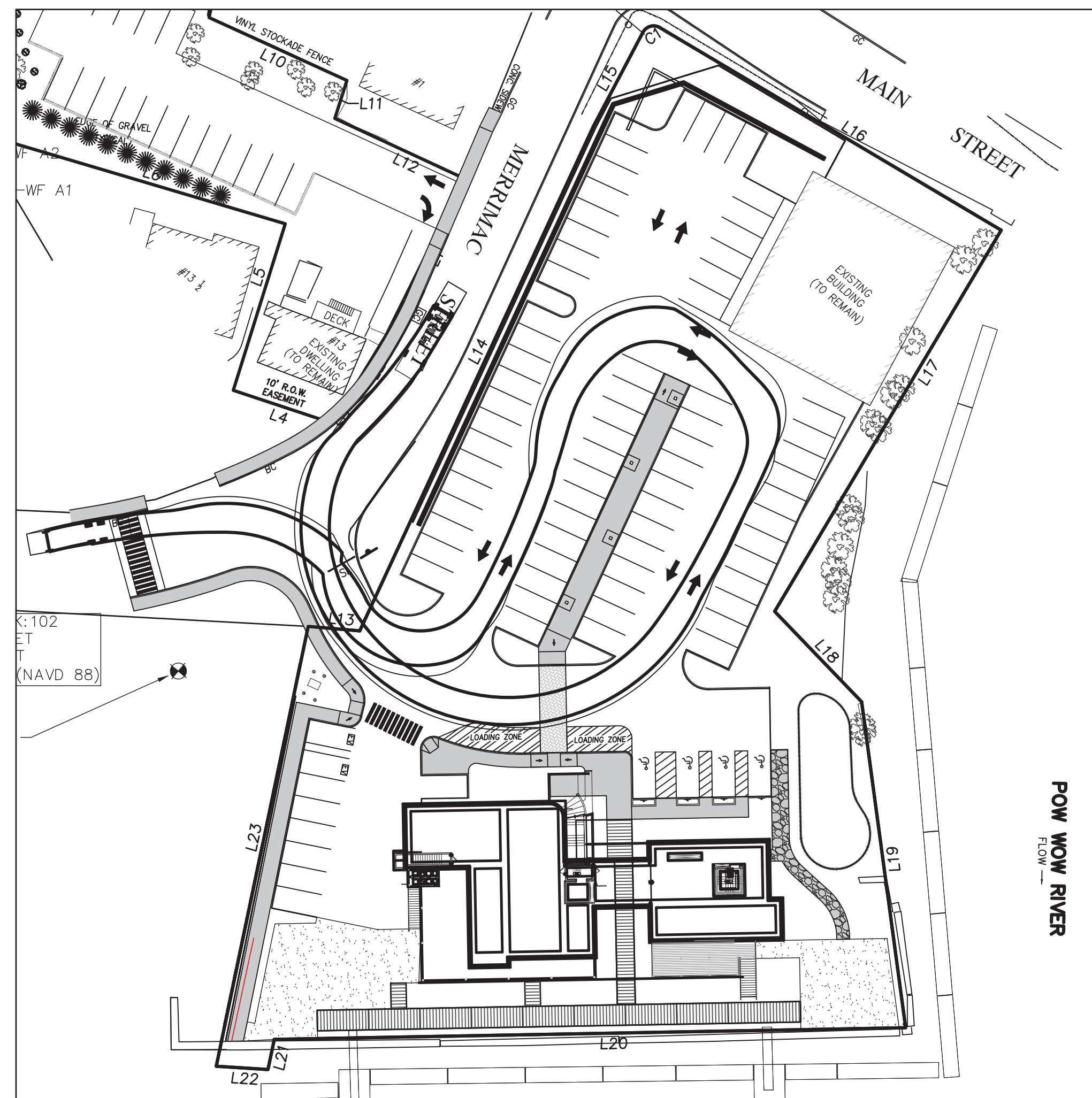
TYPICAL GRANITE CURBING
INSTALLATION DETAIL

N.T.S.



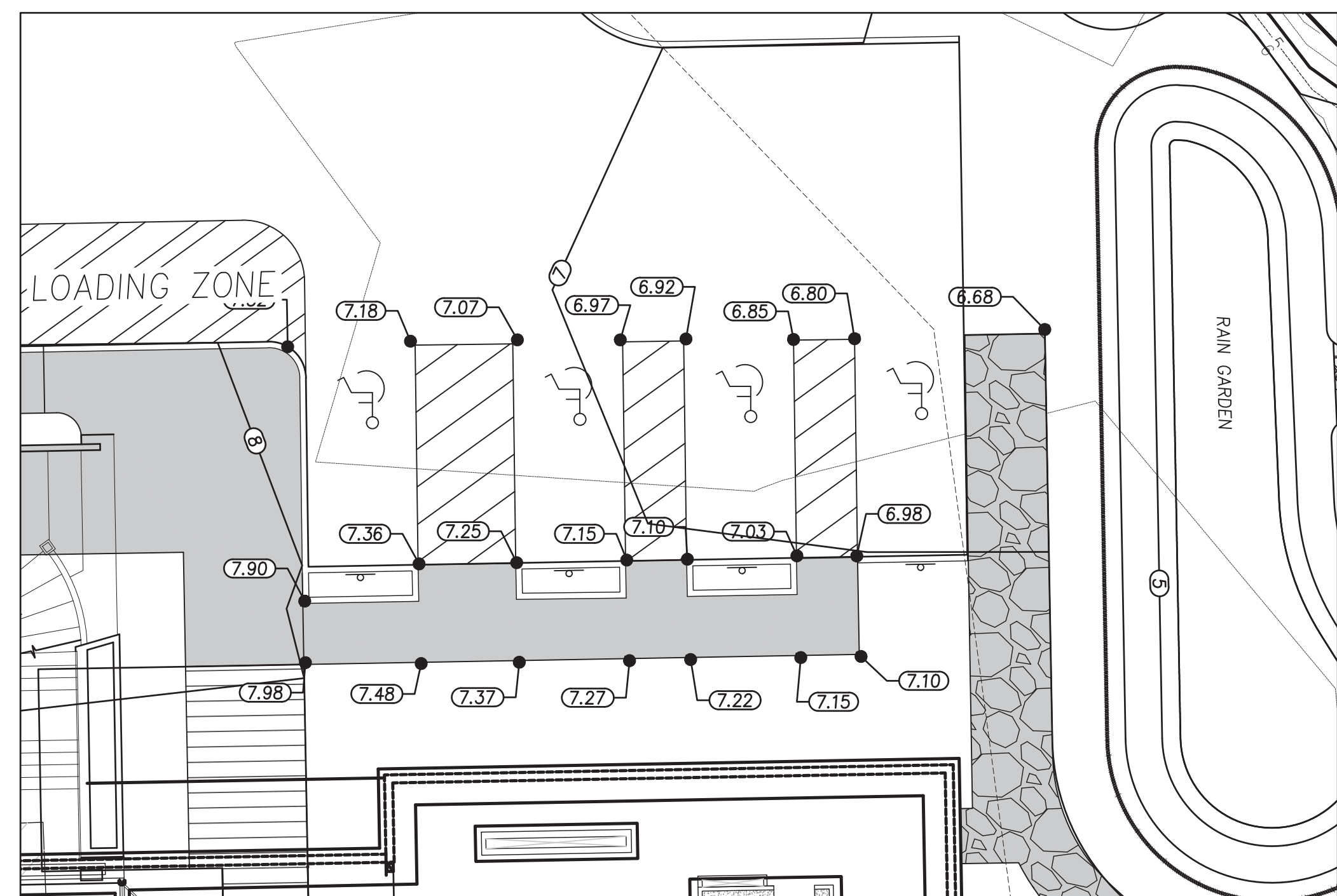
CURB/SIDEWALK
INSTALLATION DETAIL

N.T.S.



FIRE TRUCK TURNING
DETAIL

SCALE: 1"=40'



SITE GRADING
DETAIL

SCALE: 1"=10'

FOR REGISTRY USE

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2 MERRIMAC STREET
AMESBURY, MA 01913

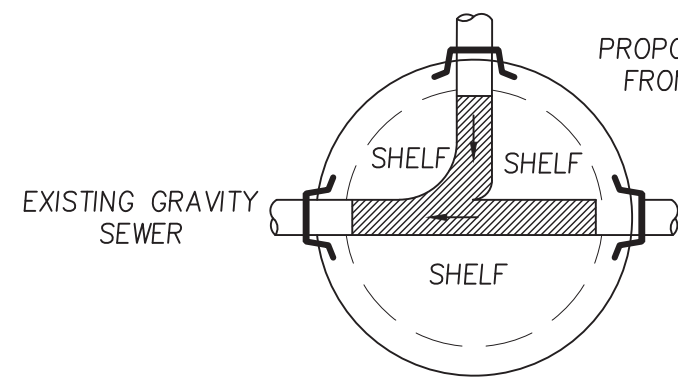
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MEI MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM ST. SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528	
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PROJECT: M214054	

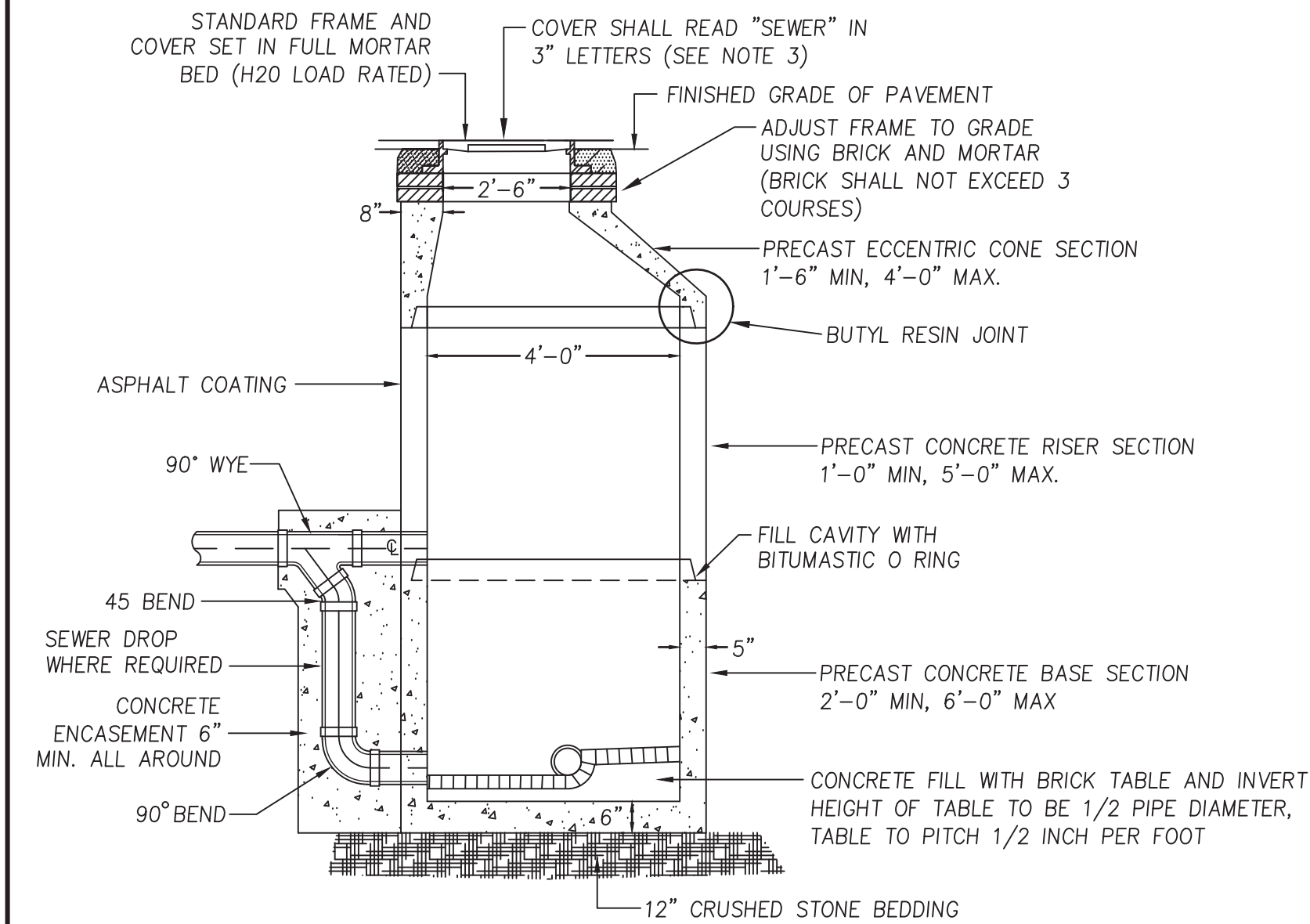
SITE PLAN
IN
AMESBURY, MA
AT
13 & 14 MERRIMAC STREET

DETAILS

SHEET: C-9



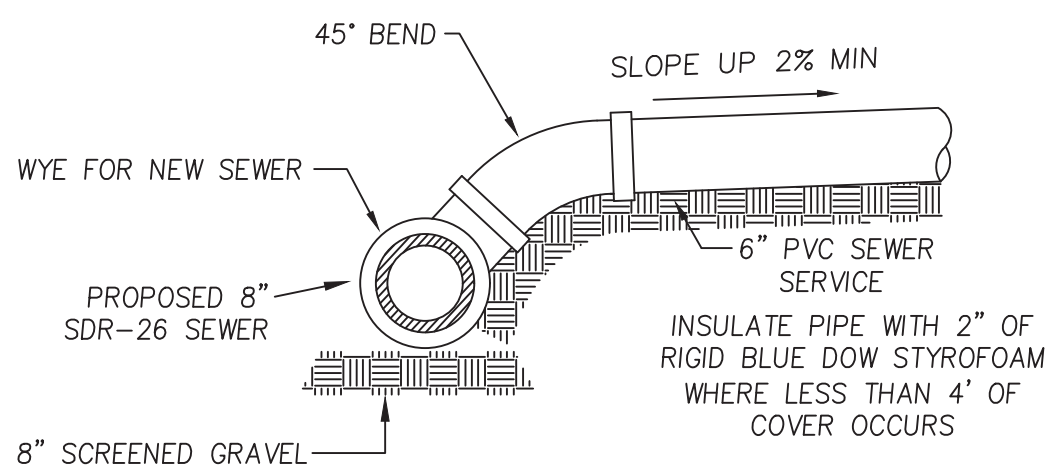
SMH #1 PLAN VIEW



- NOTES: 1) SEWER MANHOLES SHALL CONFORM TO ASTM C478 AND ASTM C185
2) STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC STEPS SHALL CONFORM TO LATEST ASTM C478 SPEC.
3) COVER SHALL BE LEBARON FOUNDRY (MODEL NO. LA246), MECHANICS IRON FOUNDRY, NEEHAN FOUNDRY, OR EQUAL.
4) ALL PENETRATIONS IN THE MANHOLE FOR INSERTION OF PIPING SHALL BE SEALED WITH KOR-N-SEAL FLEXIBLE PIPE CONNECTION.
5) FLAT TOP STRUCTURES SHALL BE PRECAST SECTIONS AND HAVE A 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI REINFORCED FOR AASHTO H-20 LOADING.
6) CONICAL SECTIONS MAY BE SUBSTITUTED FOR FLAT-TOP STRUCTURES IN AREAS WHERE MORE THAN 4 FEET OF COVER IS PROVIDED FOR DRAIN PIPE.

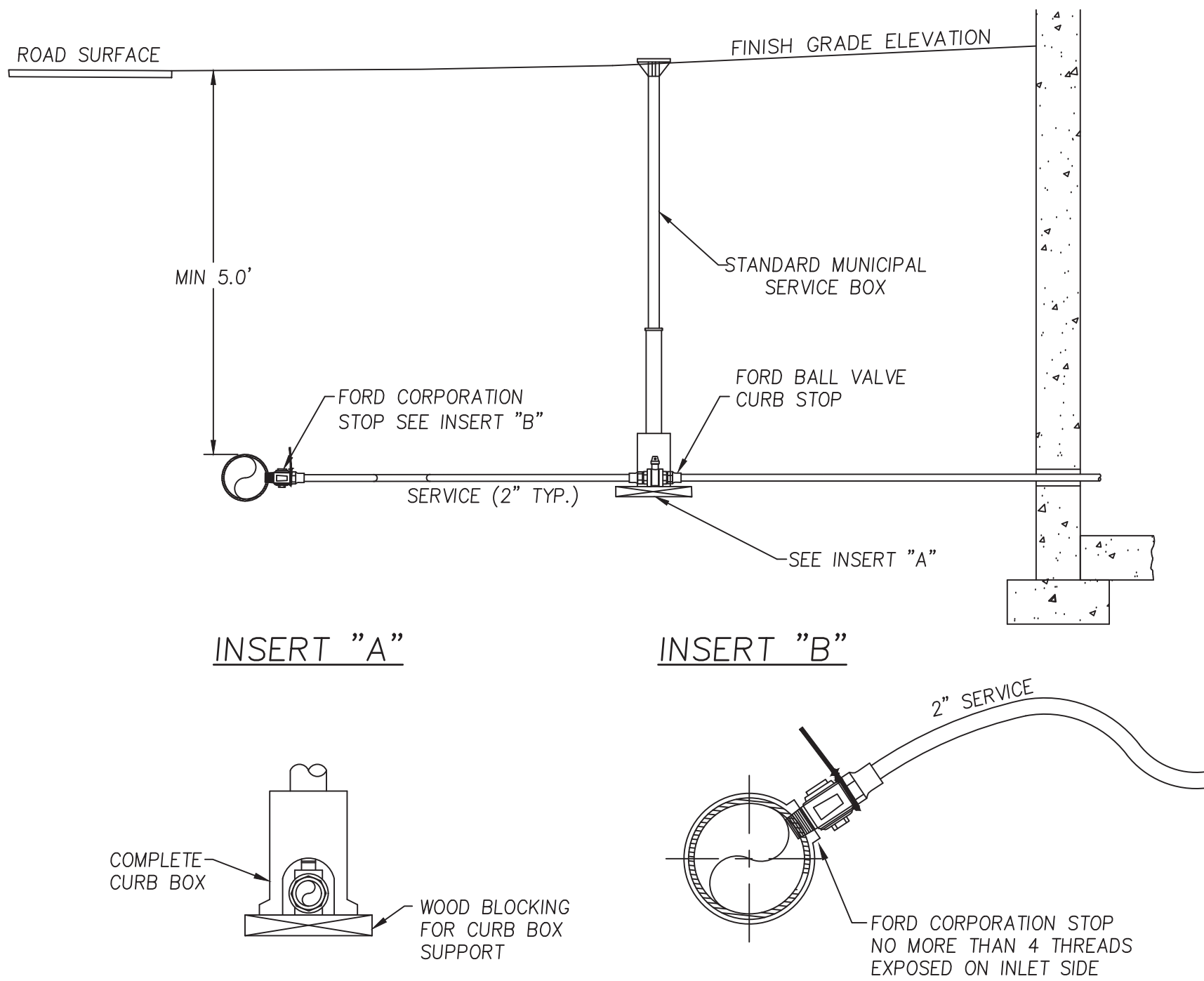
PRECAST SEWER
DETAIL

N.T.S.



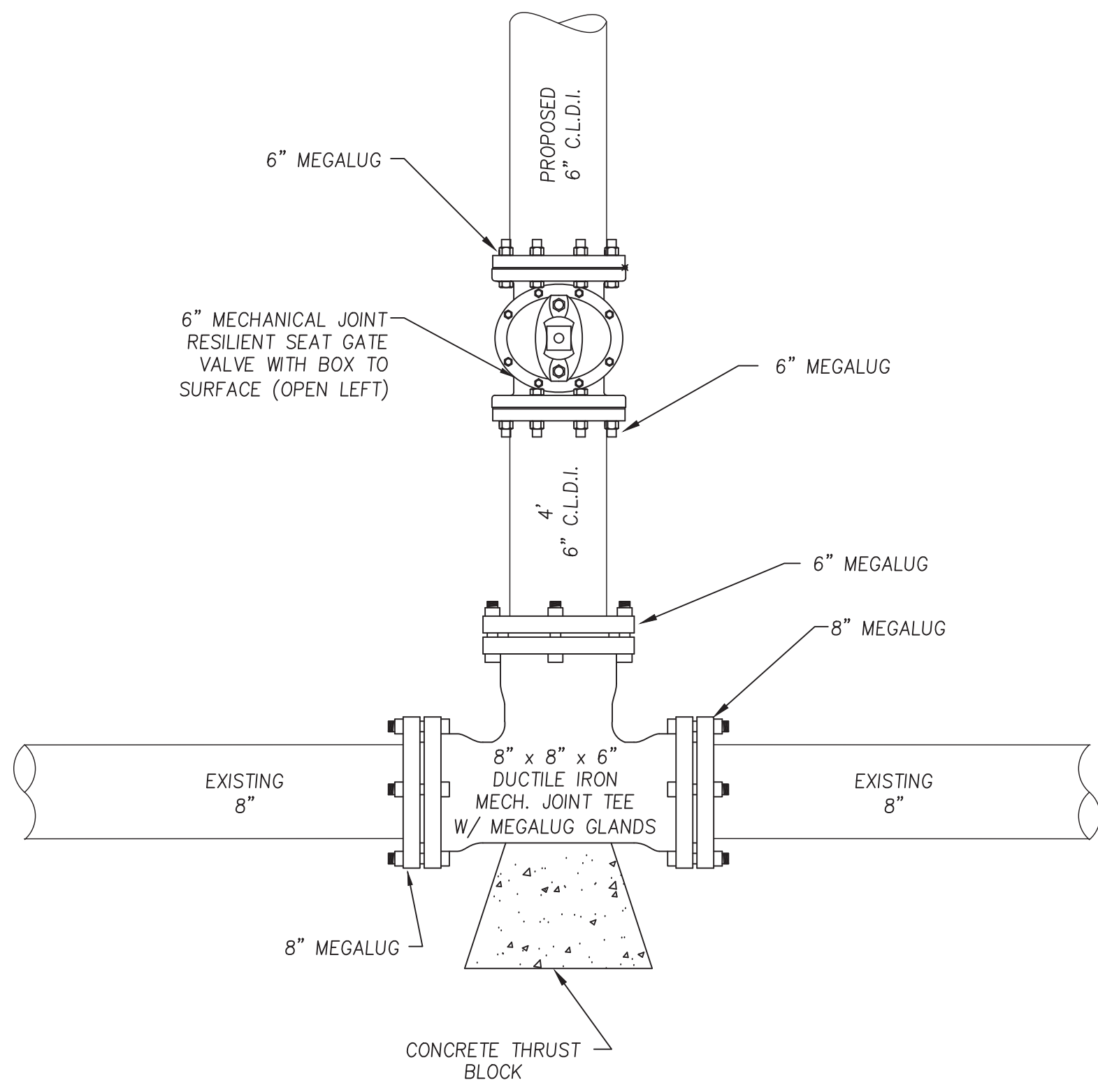
SEWER SERVICE
DETAIL

N.T.S.



TYPICAL
SERVICE CONNECTION

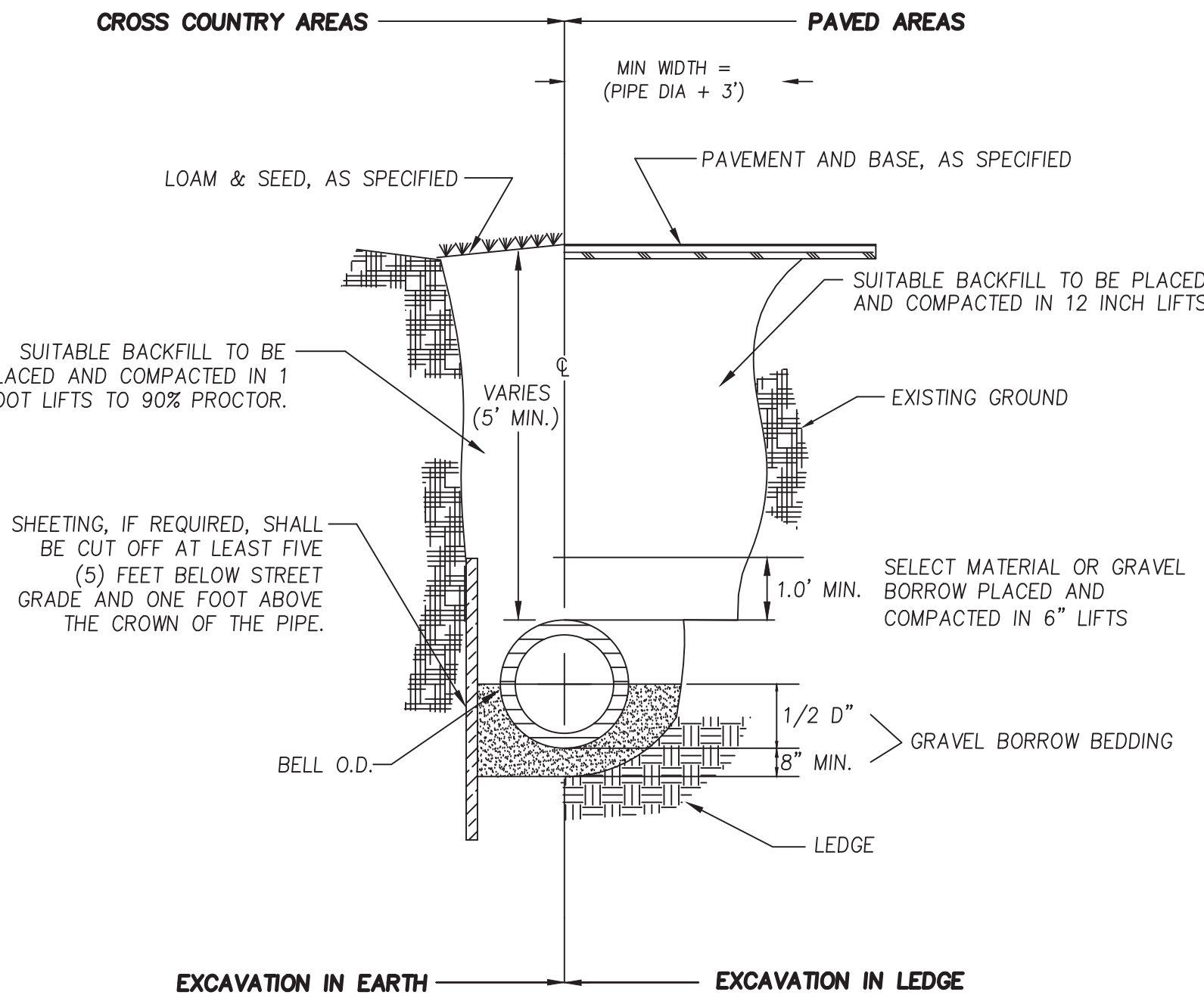
N.T.S.



- NOTES: 1) TIE IN SHALL BE COORDINATED WITH THE WATER DEPARTMENT.
2) THE CONTRACTOR IS RESPONSIBLE FOR ALL OFF-SITE NOTIFICATIONS TO IMPACTED PROPERTIES.

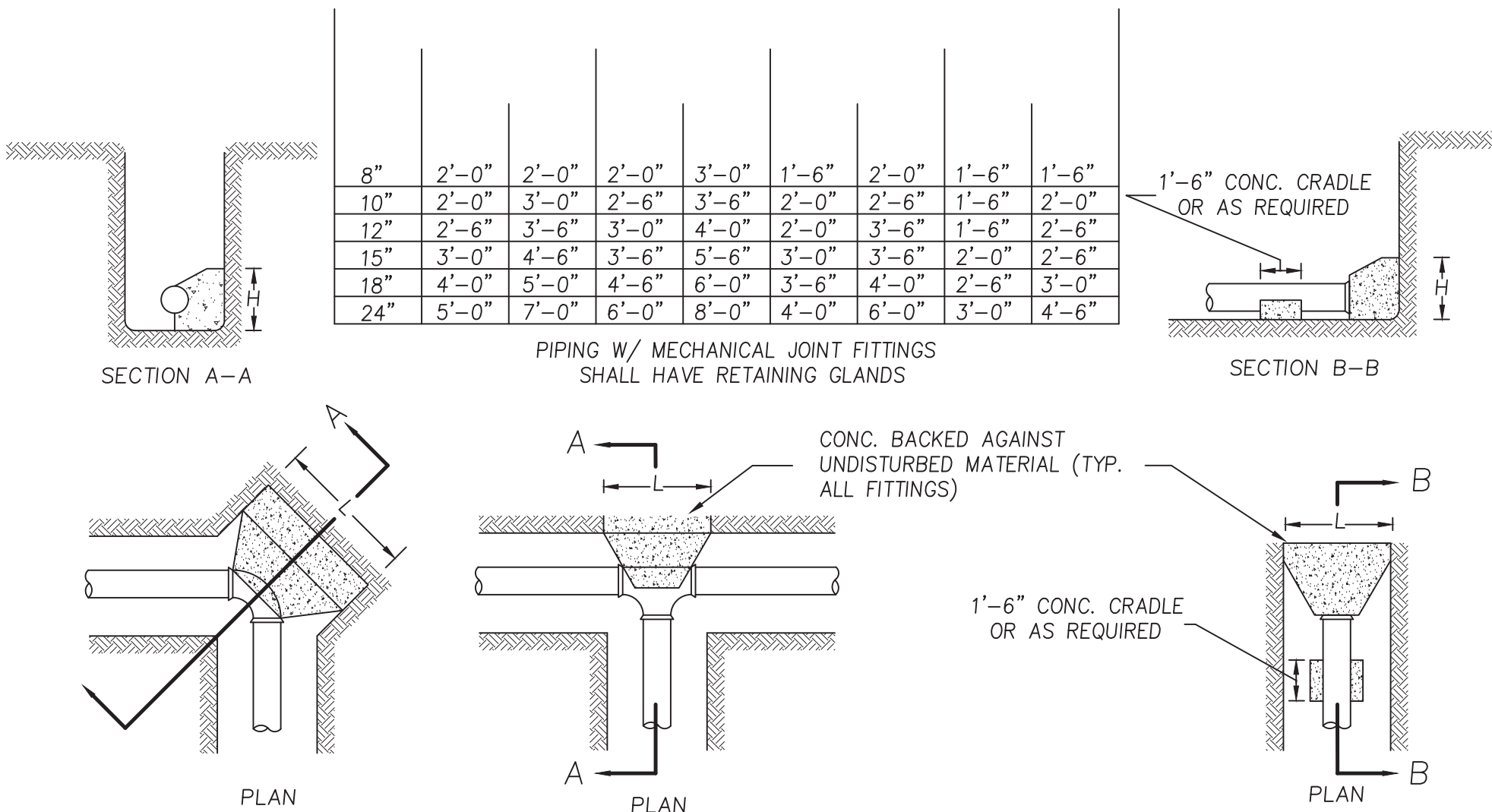
WATER MAIN
CONNECTION DETAIL

N.T.S.



TYPICAL TRENCH
DETAIL

N.T.S.

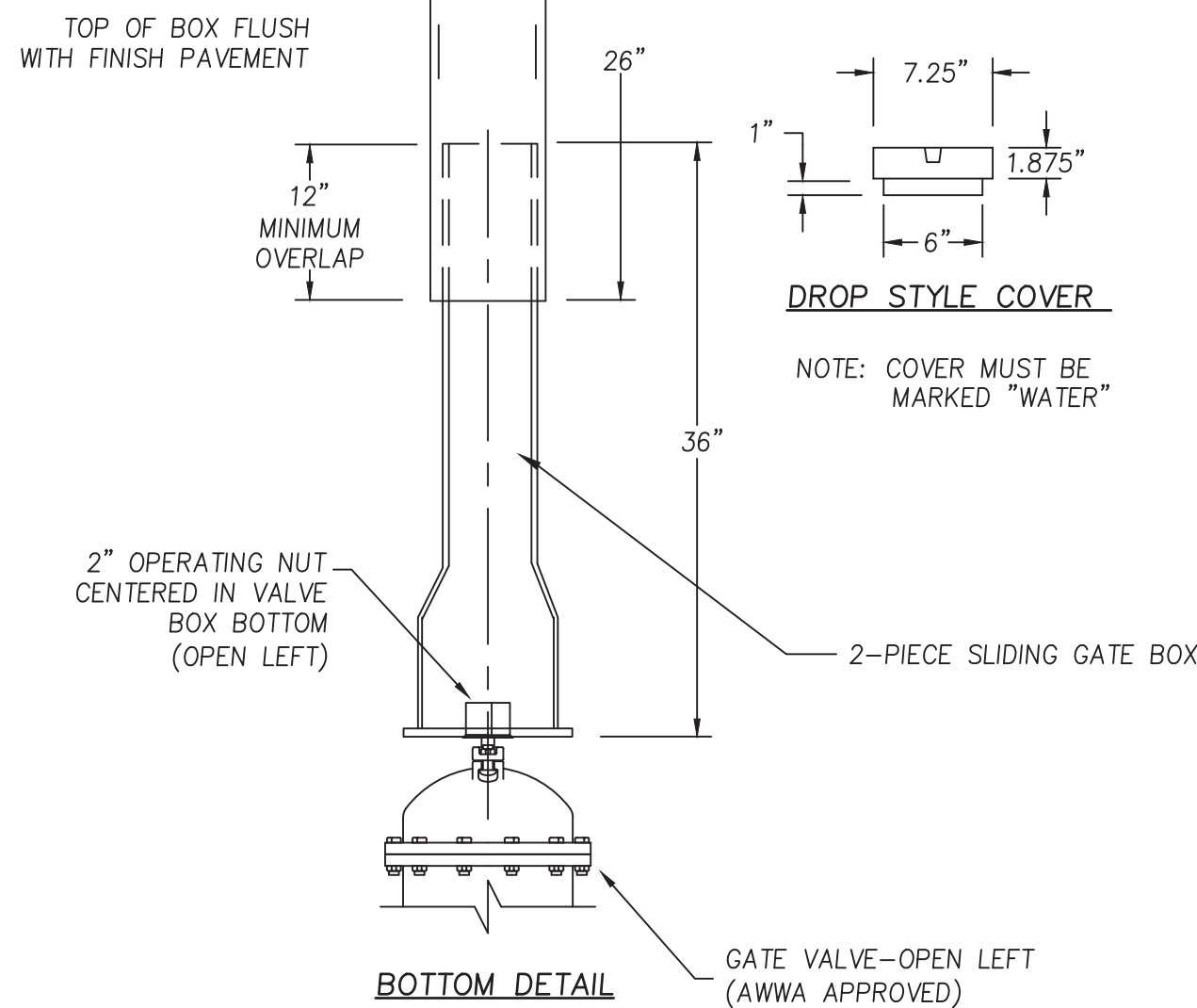


NOTES

1. VALUES SHOWN ARE FOR TEST PRESSURE OF 150 PSI WITH A 100 PSI SURGE ALLOWANCE.
2. THRUST BLOCKS SHALL NOT BE PLACED AGAINST THE FOLLOWING SOILS: PEAT, ORGANIC SILT AND ORGANIC SOILS, SOFT CLAY, RUBBISH FILL AND OTHER UNSUITABLE ARTIFICIAL FILL, SHATTERED SHALE, INORGANIC SILT AND VERY FINE SANDS.
3. POURED CONCRETE THRUST BLOCKS SHALL NOT COVER ANY JOINTS, CLAMPS, NUTS, BOLTS, ETC.

THRUST BLOCK
DETAILS

N.T.S.



TYPICAL GATE VALVE
BOX DETAIL

N.T.S.

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AMESBURY PLANNING
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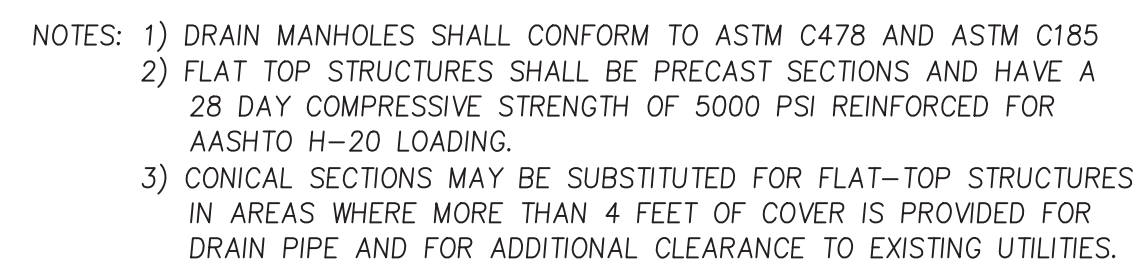
SITE PLAN
IN
AMESBURY, MA

AT
13 & 14 MERRIMAC STREET

DETAILS

SHEET: C-10

1	7/24/24	RESPONSE TO PEER REVIEW	J.T.M.	SCALE: AS NOTED	CALC. BY: S.R.C.	PROJECT: M214054
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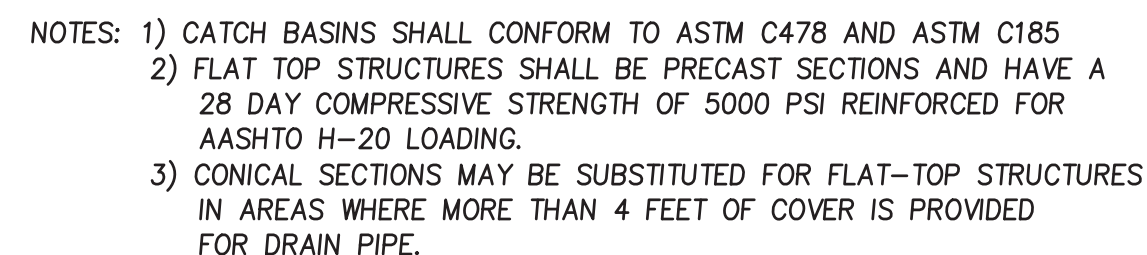
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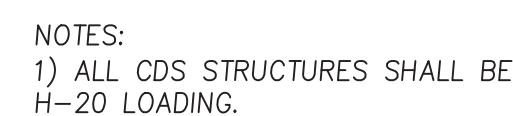
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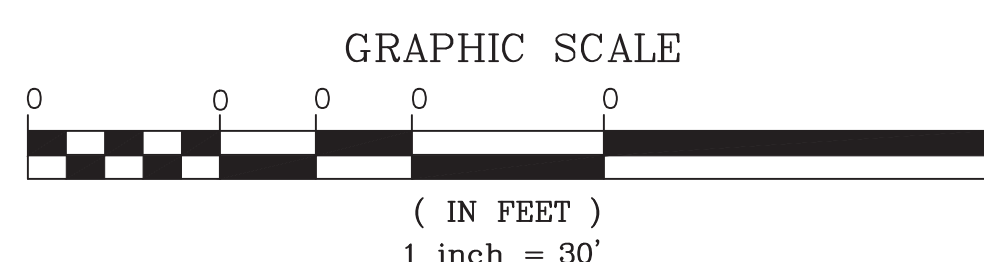
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N.T.S.



N.T.S.



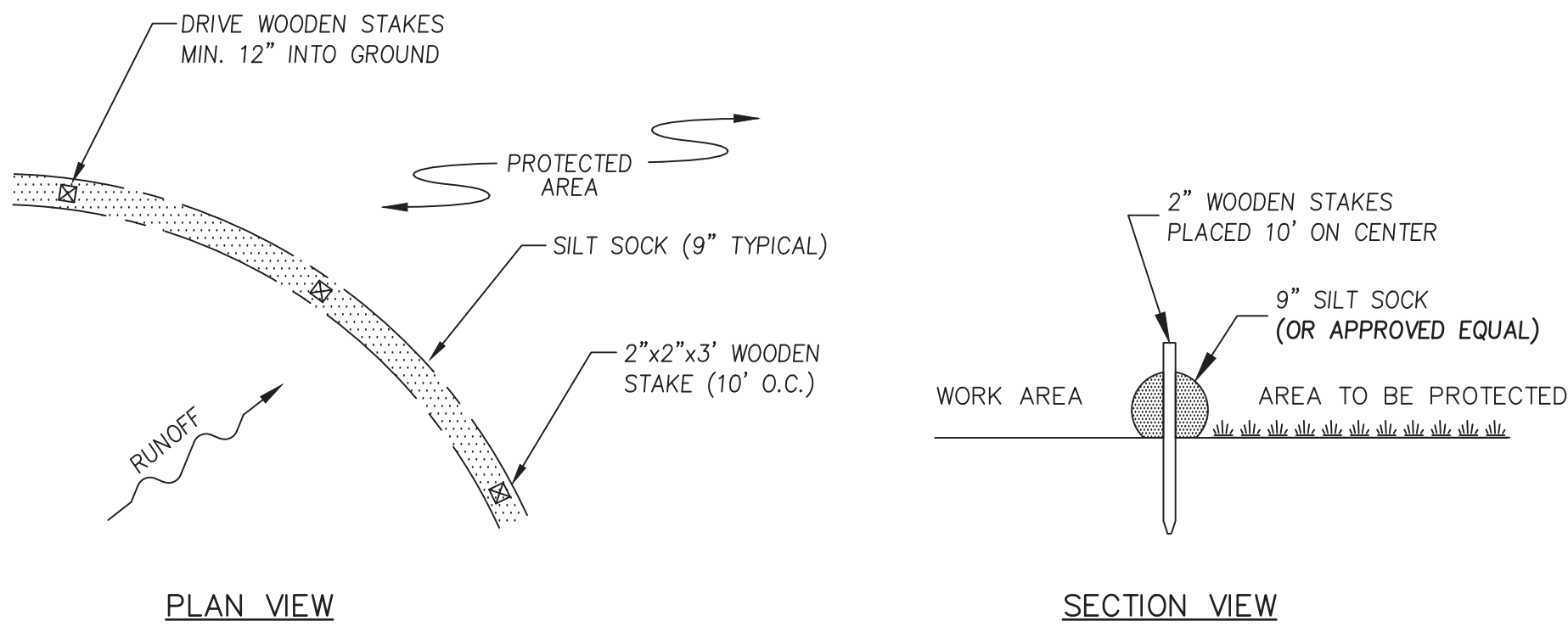
MILLENNIUM ENGINEERING, INC.
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62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

AT
13 & 14 MERRIMAC STREET

DETAILS

SHEET: C-11

					 MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM ST, SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528		
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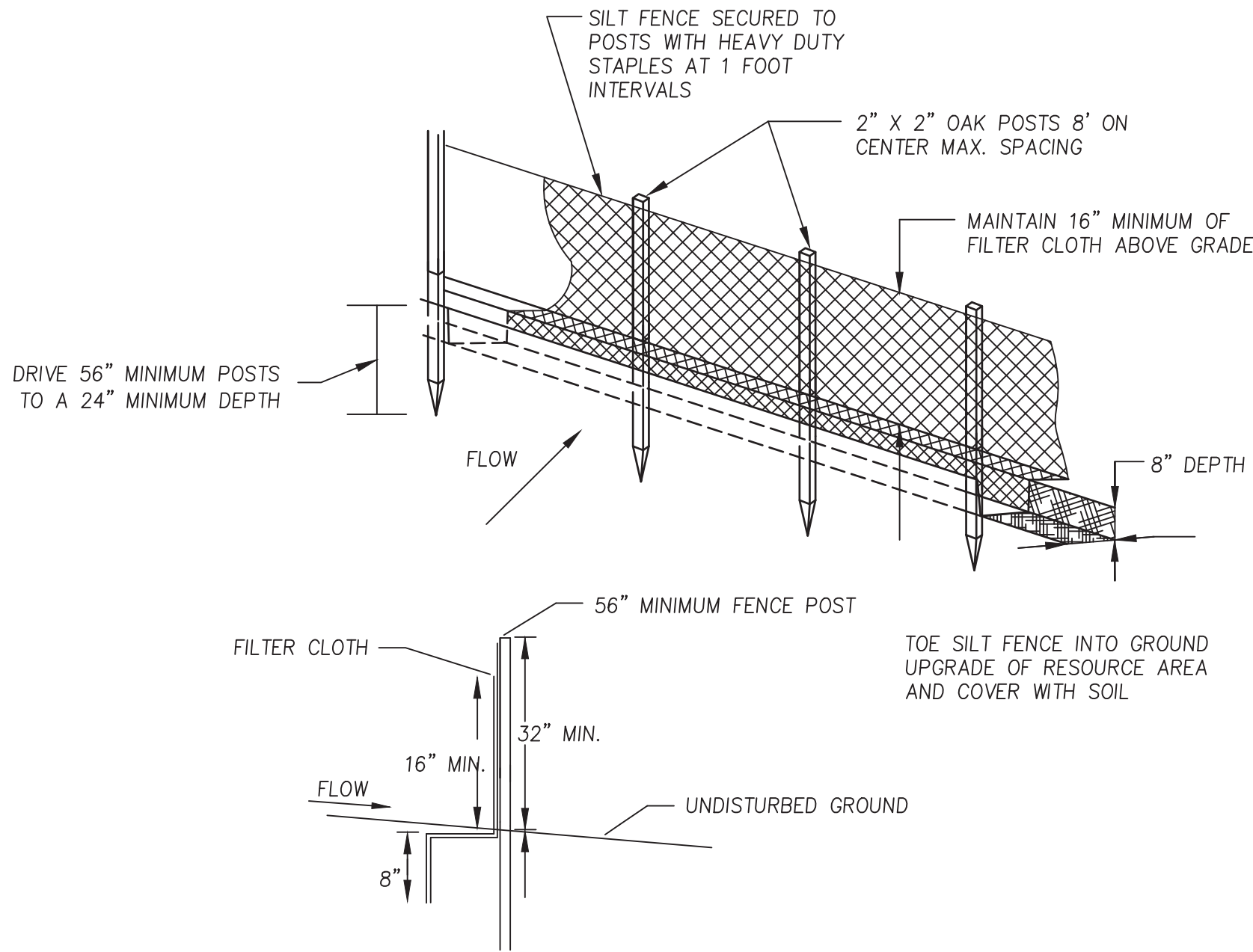


- NOTES**
- ALL MATERIAL SHALL MEET SPECIFICATIONS BY FILTREXX OR APPROVED EQUAL.
 - SILT SOCK SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
 - THE CONRACTOR SHALL REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE SILT SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFECTIVE HEIGHT OF THE SILT SOCK.
 - SILT SOCK SHALL BE MAINTAINED UNTIL DISTURBED AREA ABOVE THE DEVICE HAS BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
 - SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE SOCK HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SILT SOCK INSTALLATION

DETAIL

N.T.S.

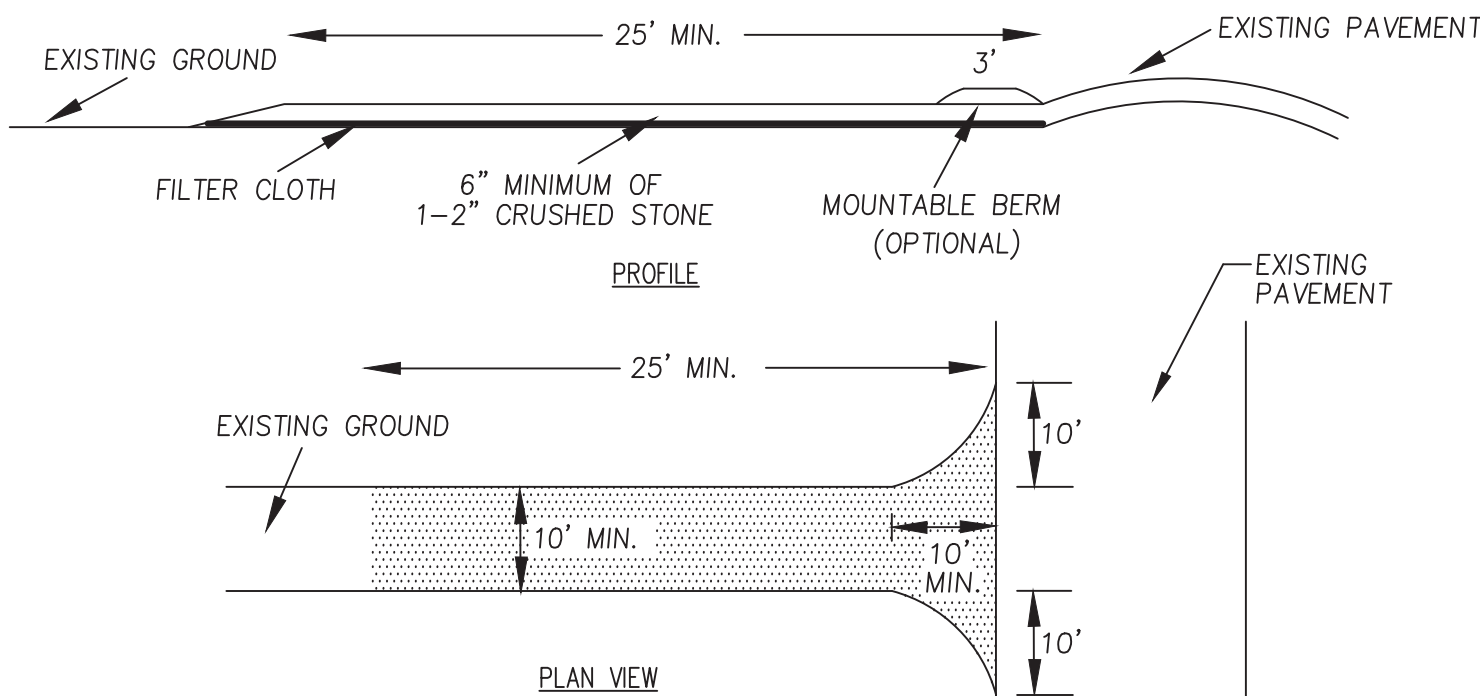


- POSTS SHALL BE DOUBLED AND COUPLED AT FILTER CLOTH SEAMS.
- FILTER CLOTH TO BE FASTENED SECURELY TO SUPPORT NETTING WITH TIES SPACED EVERY 24" AT TOP, MID SECTION, AND BOTTOM.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE

INSTALLATION

N.T.S.

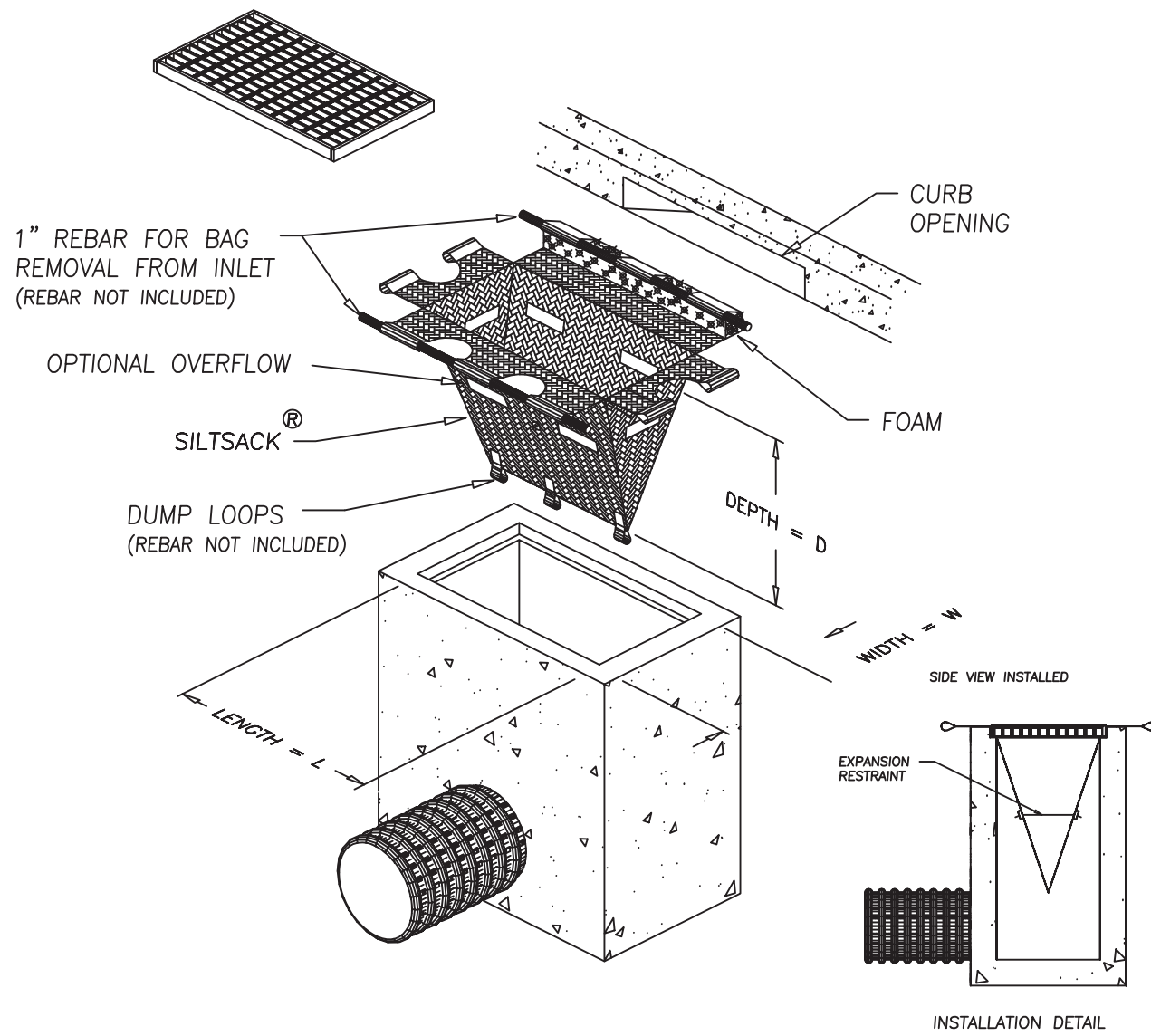


- NOTES**
- STONE SHALL BE 1-1/2"-2" STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
 - THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 25'.
 - THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6".
 - GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
 - ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR 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 MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED PROMPTLY.
 - WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

STABILIZED CONSTRUCTION

ENTRANCE

N.T.S.

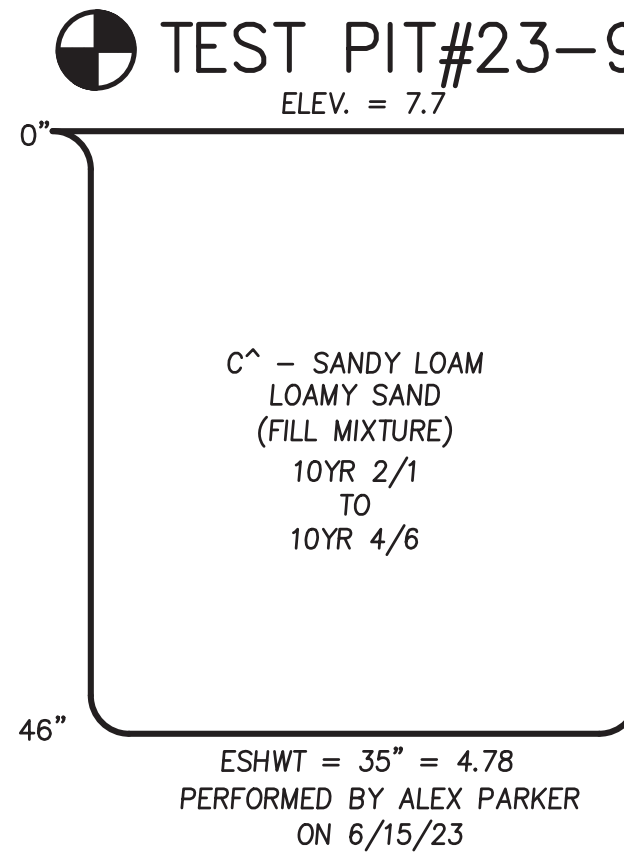
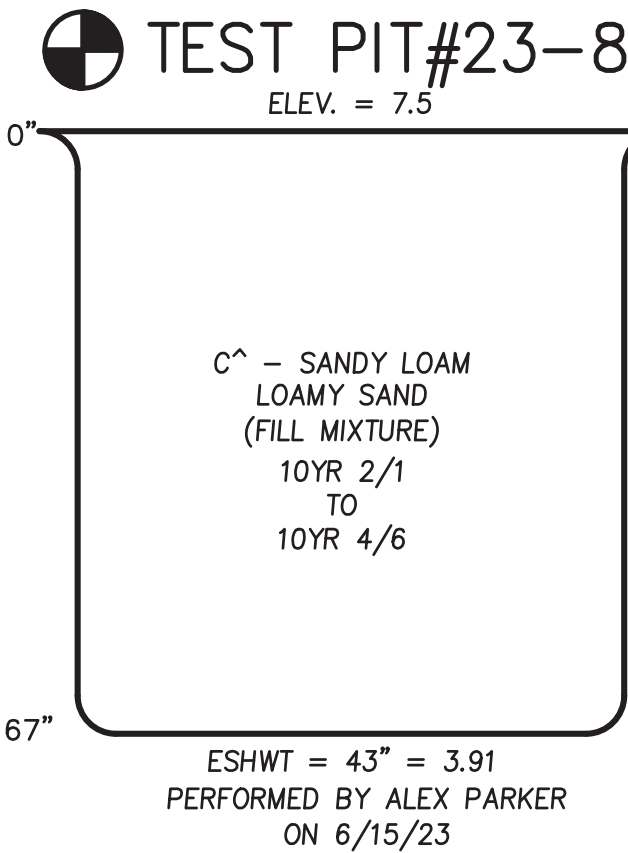
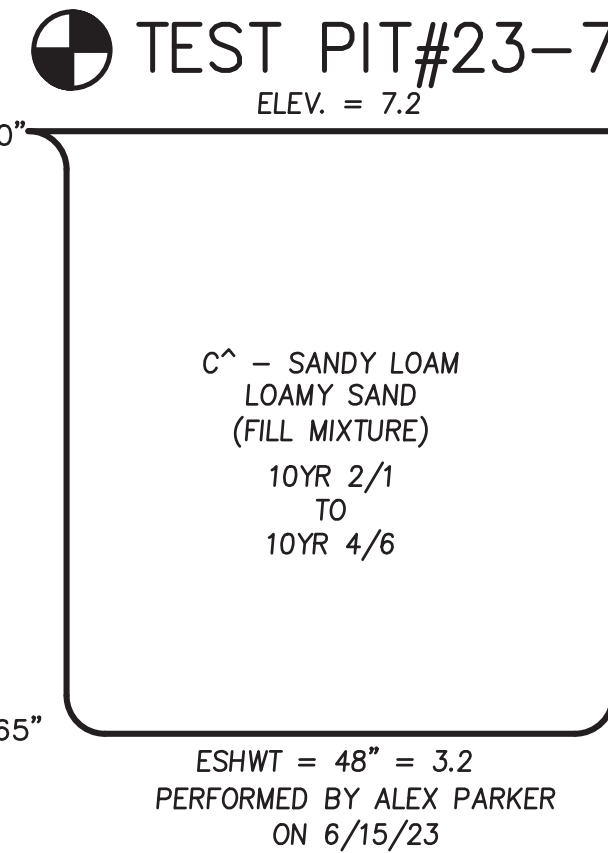
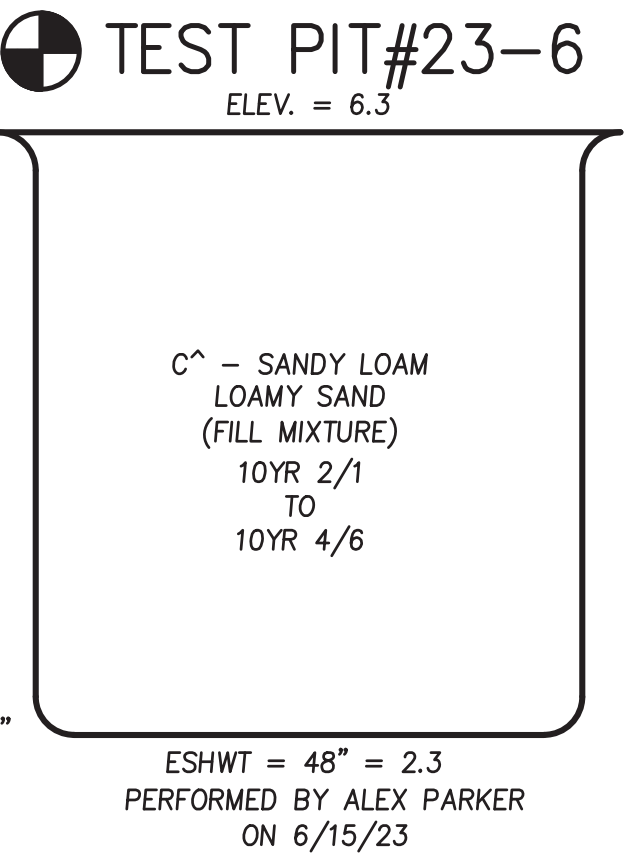
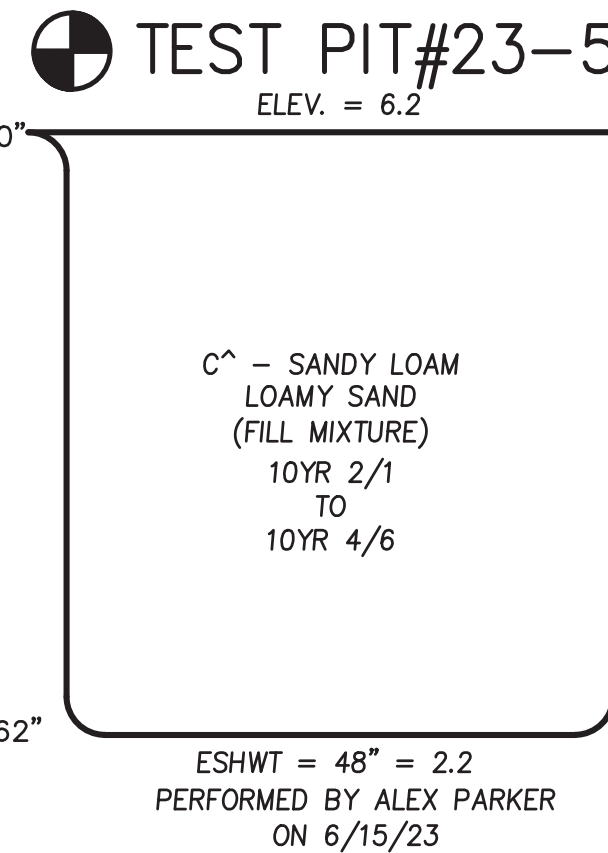
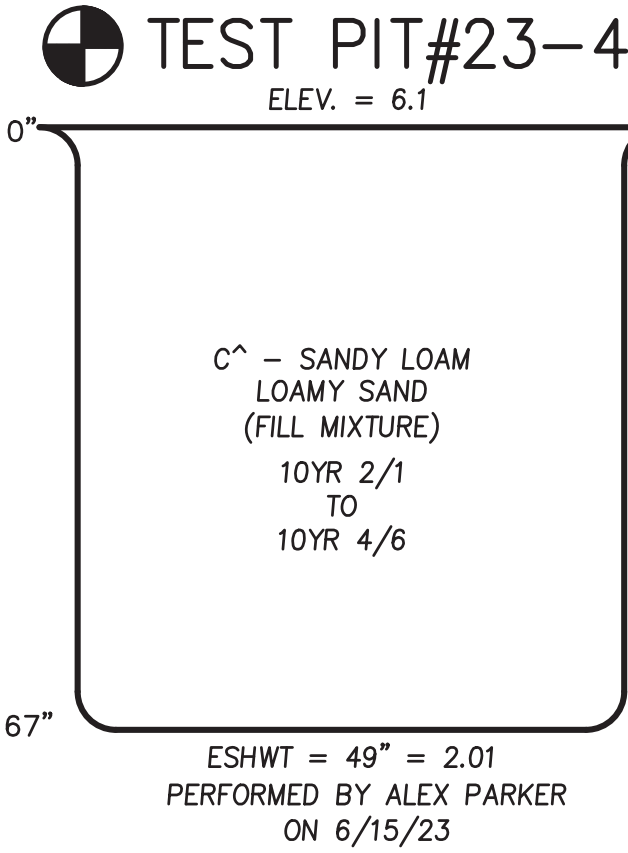
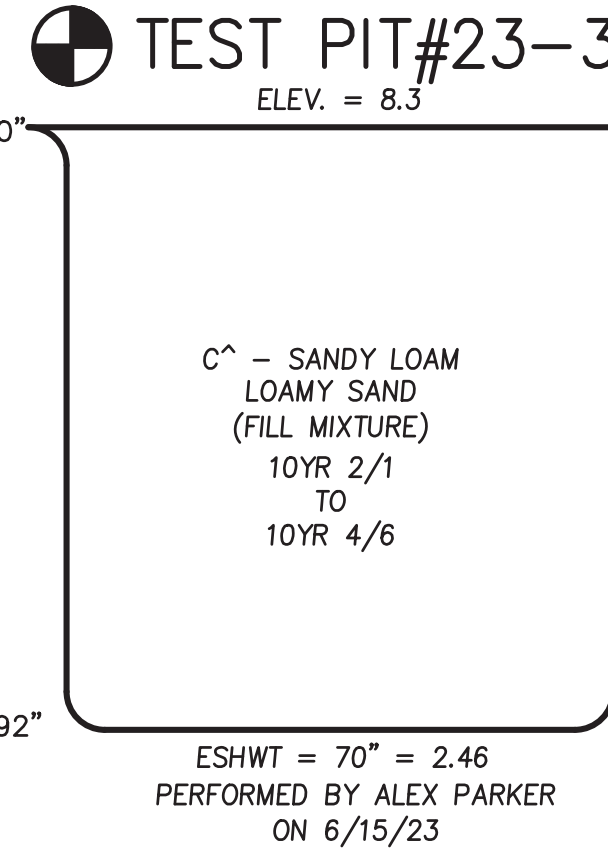
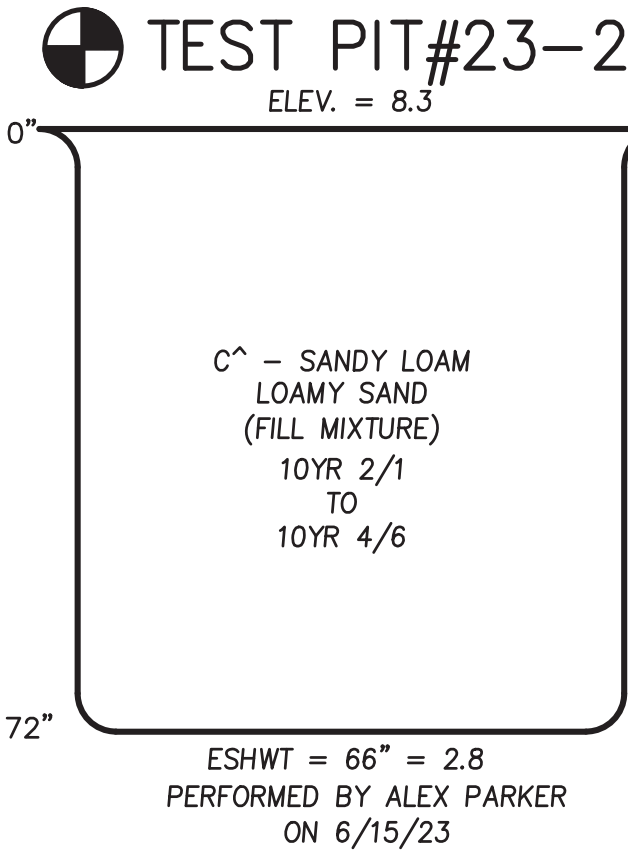
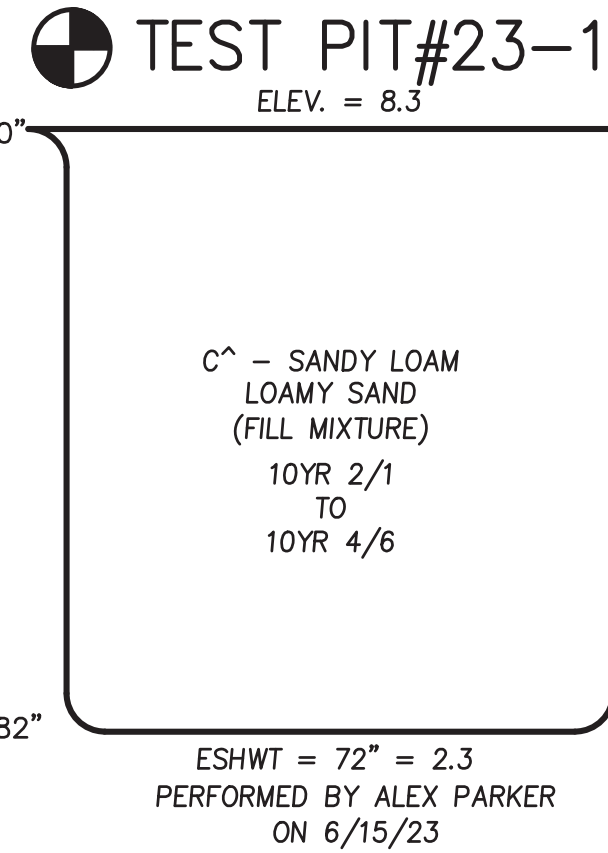


- NOTES**
- TO INSTALL SILTSACK IN THE CATCH BASIN, REMOVE THE GRATE AND PLACE THE SACK IN THE OPENING. HOLD APPROXIMATELY SIX INCHES OF THE SACK OUTSIDE THE FRAME. THIS IS THE AREA OF THE LIFTING STRAPS. REPLACE THE GRATE TO HOLD THE SACK IN PLACE.
 - WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, SILTSACK IS FULL AND SHOULD BE EMPTIED.
 - TO REMOVE SILTSACK, TAKE TWO PIECES OF 1" DIAMETER REBAR AND PLACE THROUGH THE LIFTING LOOPS ON EACH SIDE OF THE SACK TO FACILITATE THE LIFTING OF SILTSACK.
 - TO EMPTY SILTSACK, PLACE UNIT WHERE THE CONTENTS WILL BE COLLECTED. PLACE THE REBAR THROUGH THE LIFT STRAPS (CONNECTED TO THE BOTTOM OF THE SACK) AND LIFT. THIS WILL LIFT SILTSACK FROM THE BOTTOM AND EMPTY THE CONTENTS. CLEAN OUT AND RINSE. RETURN SILTSACK TO ITS ORIGINAL SHAPE AND PLACE BACK IN THE BASIN.
 - SILTSACK IS REUSABLE. ONCE THE CONSTRUCTION CYCLE IS COMPLETE, REMOVE SILTSACK FROM THE BASIN AND CLEAN. SILTSACK SHOULD BE STORED OUT OF SUNLIGHT UNTIL NEXT USE.

SILT SACK

DETAIL

N.T.S.



FOR REGISTRY USE

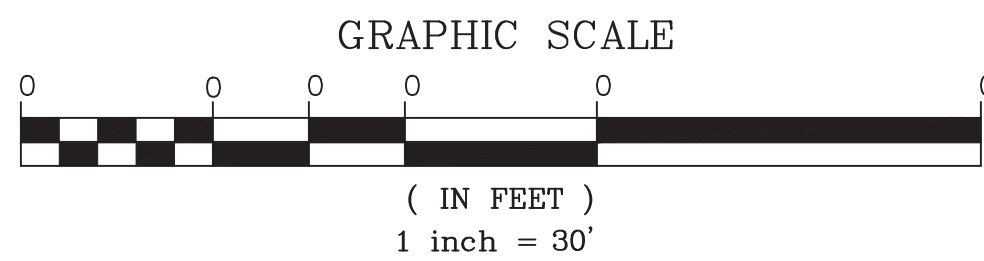
AMESBURY PLANNING BOARD APPROVAL

DATE

CITY OF AMESBURY
OFFICE OF THE CITY OF THE CLERK

THIS IS TO CERTIFY THAT ON MARCH 11, 2024
I RECEIVED FROM THE AMESBURY PLANNING BOARD CERTIFICATION OF ITS APPROVAL OF THIS PLAN AND THAT DURING THE (20) TWENTY DAYS NEXT FOLLOWING I HAVE RECEIVED NO NOTICE OF ANY APPEAL FROM SAID DECISION.

CLERK DATE



PREPARED FOR

14 MERRIMAC STREET, LLC

2 MERRIMAC STREET
AMESBURY, MA 01913

1	7/24/24	RESPONSE TO PEER REVIEW	J.T.M.	SCALE: AS NOTED	CALC. BY: S.R.C.
NO.	DATE	DESCRIPTION	BY	DATE: MAR. 11, 2024	CHKD. BY: J.T.M.

 MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM ST. SAUSBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528			PROJECT: M214054
DATE: MAR. 11, 2024			CHKD. BY: J.T.M.

SITE PLAN

IN

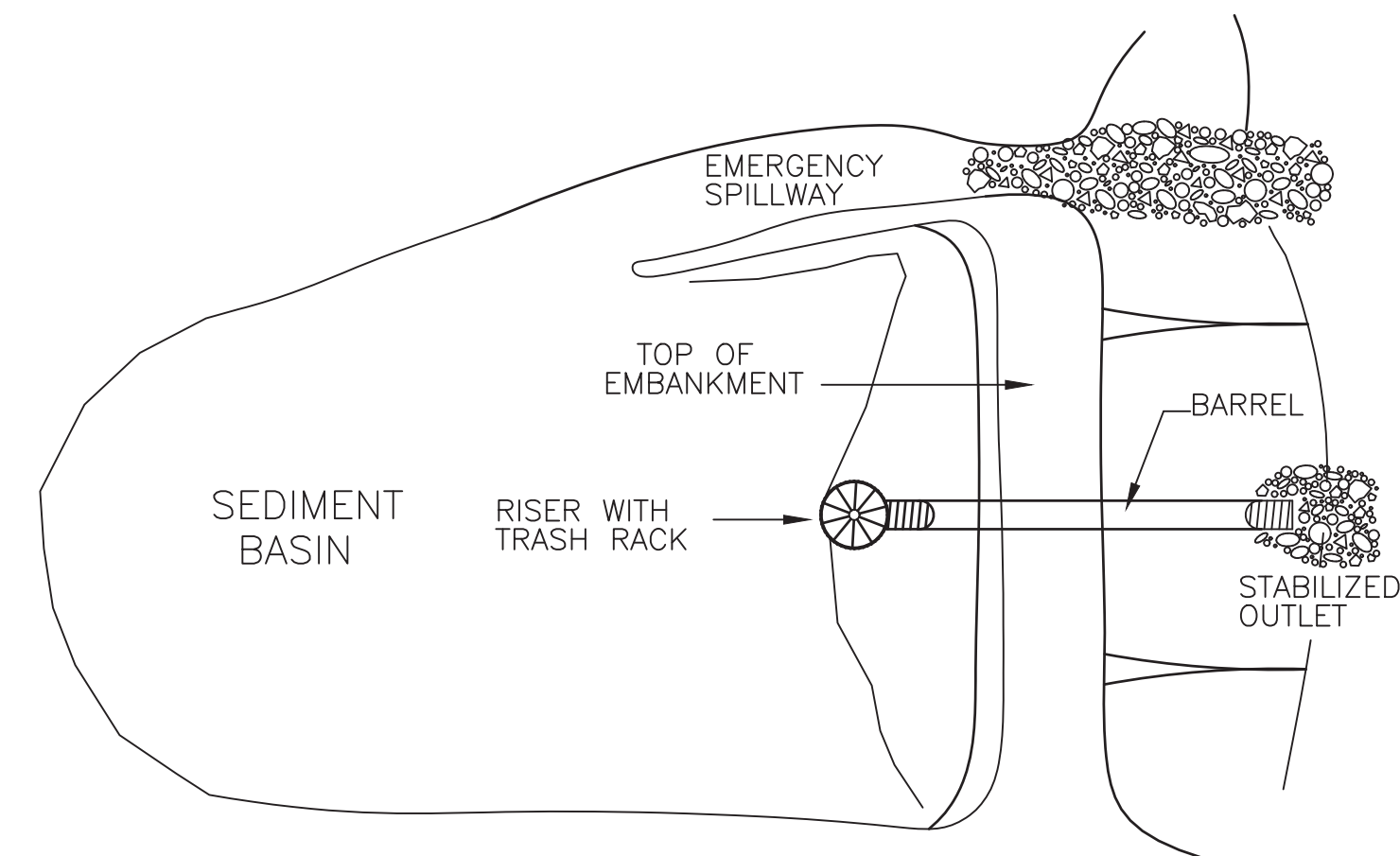
AMESBURY, MA

AT

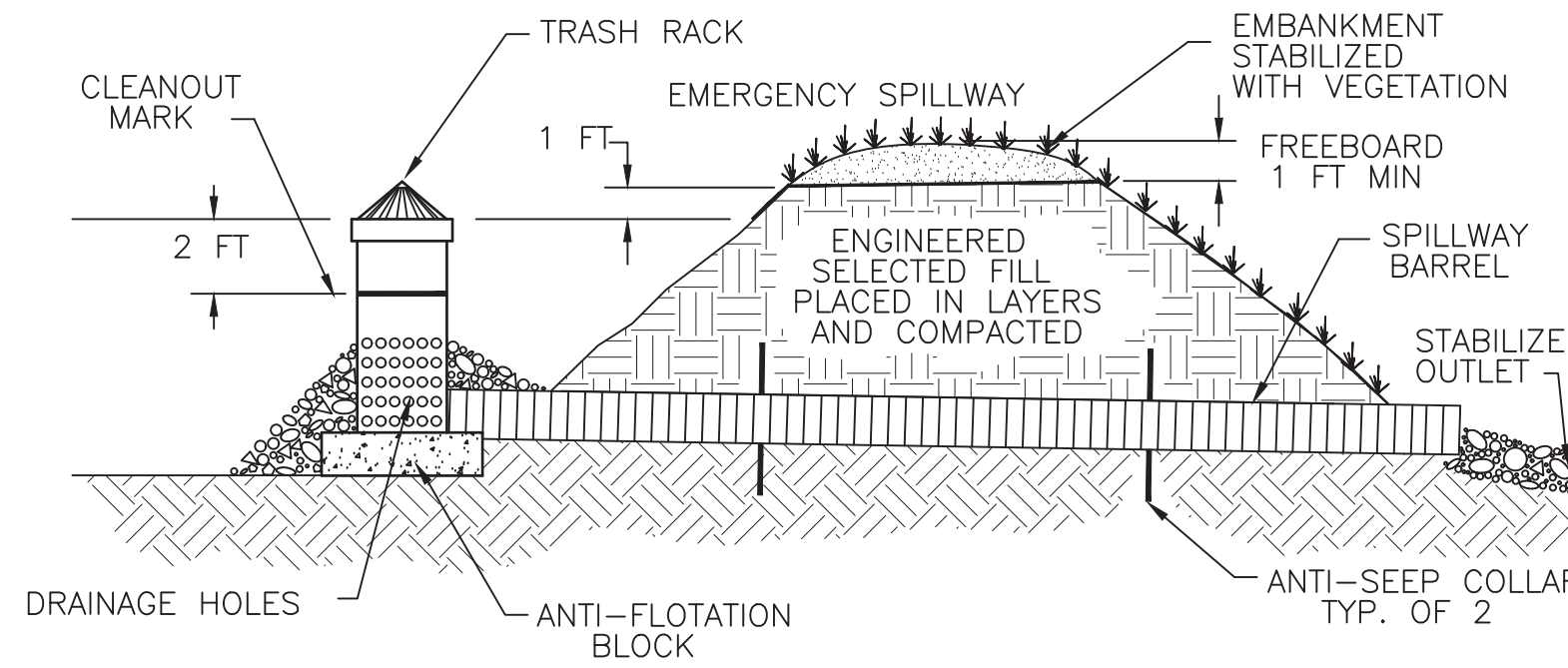
13 & 14 MERRIMAC STREET

DETAILS

SHEET: C-12



PLAN



SECTION

SEDIMENT BASIN
DETAIL

N.T.S.

FOR REGISTRY USE

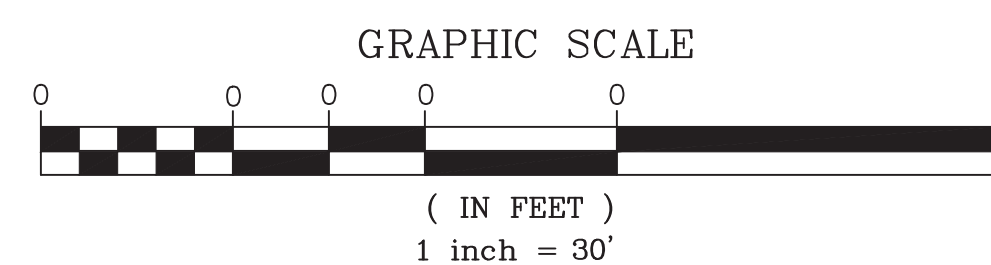
AMESBURY PLANNING
BOARD APPROVAL

DATE

CITY OF AMESBURY
OFFICE OF THE CITY OF THE CLERK

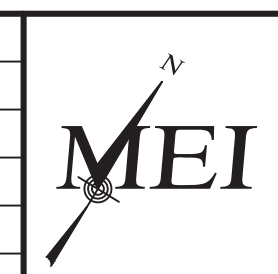
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TWENTY DAYS NEXT FOLLOWING I HAVE
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SAID DECISION.

CLERK DATE



PREPARED FOR
14 MERRIMAC STREET, LLC
2 MERRIMAC STREET
AMESBURY, MA 01913

NO.	DATE	DESCRIPTION	BY
1	7/24/24	RESPONSE TO PEER REVIEW	J.T.M.

 MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM ST. SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528	SCALE: AS NOTED	CALC. BY: S.R.C.	PROJECT: M214054
	DATE: MAR. 11, 2024	CHKD. BY: J.T.M.	

SITE PLAN
IN
AMESBURY, MA
AT
13 & 14 MERRIMAC STREET

DETAILS

SHEET: C-13