

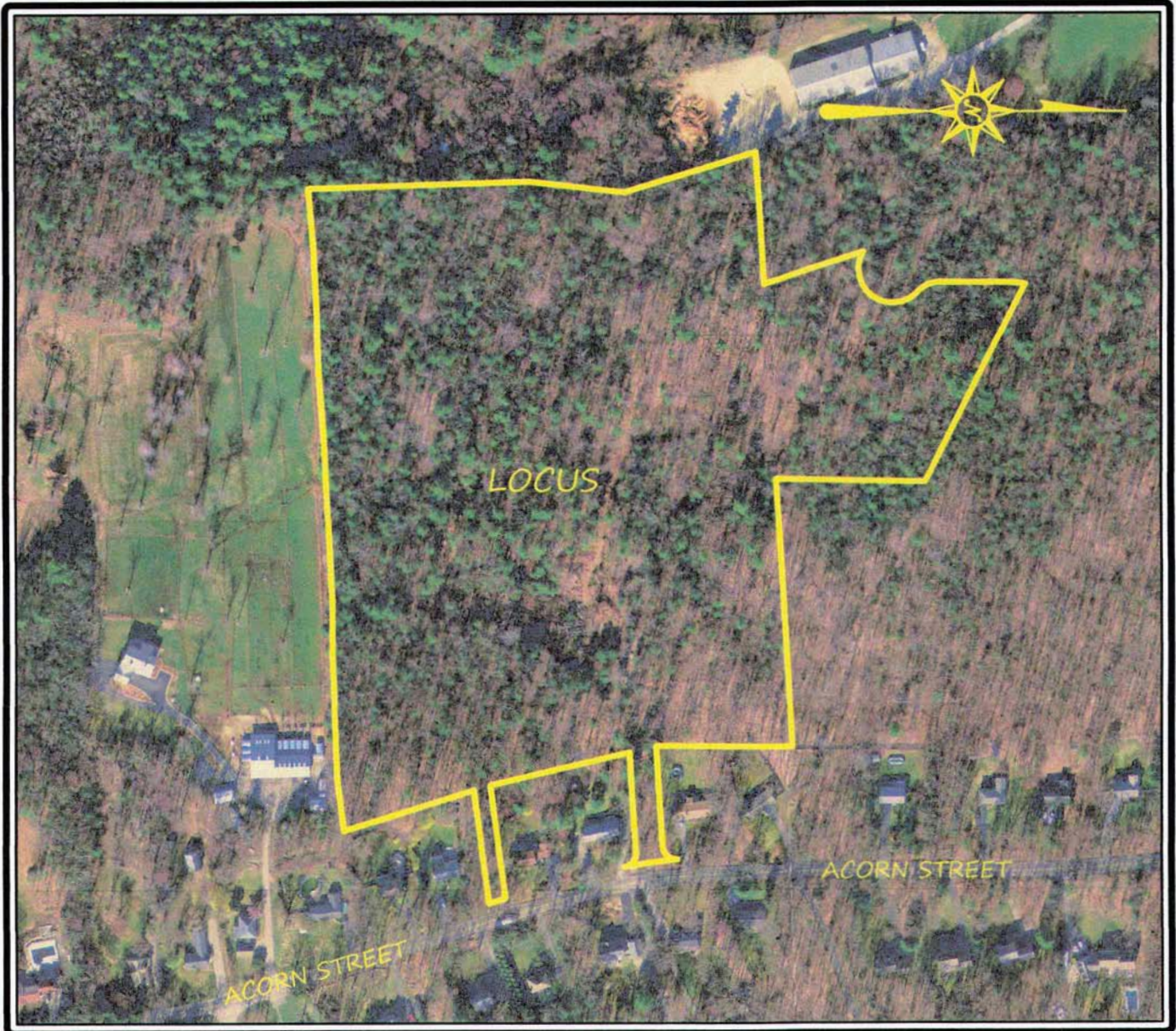
# ACORN PLACE

## SITE PLAN OF LAND IN MILLIS, MASSACHUSETTS

PREPARED BY:  
MERRIKIN ENGINEERING, LLP  
730 MAIN STREET, SUITE 2C  
MILLIS, MA 02054

JULY 12, 2018  
Latest Revision: October 12, 2018

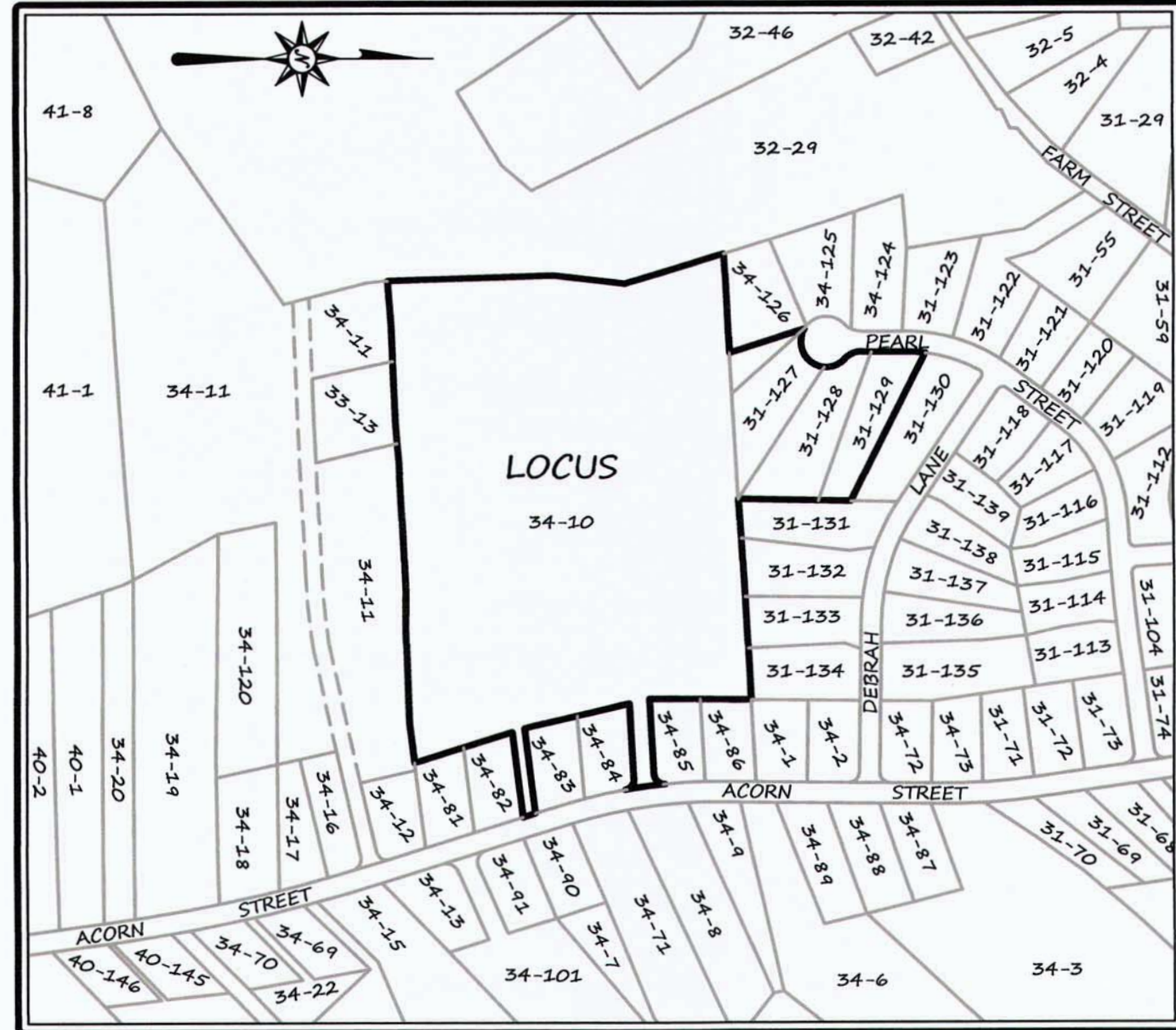
PREPARED FOR:  
ACORN MILLIS RESIDENTIAL, LLC  
38 BENJAMINS GATE  
PLYMOUTH, MA 02360



2013 MASSGIS AERIAL LOCUS  
SCALE: 1" = 300'



LOCUS  
SCALE: 1" = 120'



ASSESSORS LOCUS  
SCALE: 1" = 400'

### WAIVER REQUESTS

1. TO ALLOW AN ENTRANCE STANDING SIGN AS SHOWN ON THIS SITE PLAN.

### PLAN INDEX

- SHEET 1 - COVER
- SHEET 2 - KEY
- SHEET 3 - EXISTING CONDITIONS (1 OF 3)
- SHEET 4 - EXISTING CONDITIONS (2 OF 3)
- SHEET 5 - EXISTING CONDITIONS (3 OF 3)
- SHEET 6 - LAYOUT SHEET (1 OF 3)
- SHEET 7 - LAYOUT SHEET (2 OF 3)
- SHEET 8 - LAYOUT SHEET (3 OF 3)
- SHEET 9 - GRADING SHEET (1 OF 2)
- SHEET 10 - GRADING SHEET (2 OF 2)
- SHEET 11 - UTILITY SHEET (1 OF 2)
- SHEET 12 - UTILITY SHEET (2 OF 2)
- SHEET 13 - DETAIL SHEET
- SHEET 14 - DETAIL SHEET
- SHEET 15 - DETAIL SHEET
- SHEET 16 - DETAIL SHEET

OWNER:  
BRIAN DMYTRYCK  
1275 MAIN STREET  
MILLIS, MA 02054

ACORN OF MILLIS, LLC  
275 TURNPIKE STREET SUITE 300  
CANTON MA, 02021

APPLICANT:  
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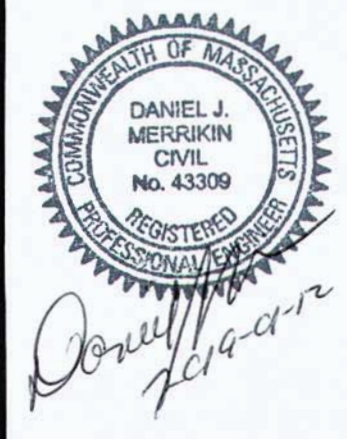
ASSESSORS INFORMATION:  
31-127, 31-128, 31-129, 34-10,  
PORTION OF 34-126

ZONING CLASSIFICATION:  
RESIDENTIAL-SUBURBAN (R-S)

DATE APPROVAL ISSUED: 11/13/18

PLAN ENDORSEMENT DATE: 11/15/19

*[Signature]*  
MILLIS PLANNING BOARD



PLAN SCALE: AS NOTED

| DATE       | BY  |
|------------|-----|
| 2018-07-27 | DJM |
| 2018-10-12 | DJM |
| 2018-10-12 | DJM |

ACORN PLACE  
COVER SHEET  
PLAN OF LAND  
IN  
MILLIS, MA



730 MAIN STREET, SUITE 2C  
MILLIS, MA 02054  
ph. 508-376-8883 fax 508-376-8823



1. SURVEY & PLAN REFERENCES:
  - A. PROPERTY LINE AND TOPOGRAPHICAL SURVEY BY COLONIAL ENGINEERING AND ARE THE RESULT OF AN ON-THE-GROUND SURVEY.
  - B. PLAN REFERENCES AS FOLLOWS:
    - PLAN BOOK NO. 207, NO. 1117 OF 1955
    - PLAN BOOK NO. 275, NO. 117 OF 1975
    - PLAN BOOK NO. 299, NO. 768 OF 1982
    - PLAN BOOK NO. 633, NO. 75 OF 2014
    - PLAN NO. 332(1-7) OF 1944 - ACORN STREET COUNTY LAYOUT
  - C. DEED REFERENCES:
    - BOOK 34694, PAGE 367
    - BOOK 32543, PAGE 200
2. EXISTING UTILITY INFORMATION IS BASED ON BEST AVAILABLE RECORDS FROM THE TOWN OF MILLIS AND OTHER SOURCES AND VISIBLE SURFACE FEATURES SUCH AS MANHOLES, CATCH BASINS, UTILITY POLES, HYDRANTS, VALVE BOXES, ETC... EXISTING UTILITY INFORMATION DEPICTED ON THESE PLANS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS PRIOR TO COMMENCEMENT OF WORK.
3. THE DEVELOPER SHALL RETAIN FEE INTEREST IN THE ROADWAY RIGHT-OF-WAY.
4. DATUM: NAVD88

1. WETLANDS BOUNDARIES WERE DELINEATED BY GODDARD CONSULTING IN 2018.
2. PURSUANT TO THE TOWN OF MILLIS WETLAND PROTECTION BY-LAW (ARTICLE XIX), THE 100' WETLAND BUFFER ZONE SHOWN ON THIS PLAN IS DEFINED AS A "RESOURCE AREA".

1. THE CONTRACTOR SHALL CONTACT DIGSAFE AT 811 PRIOR TO ANY EXCAVATION ACTIVITIES.
2. PATIOS BEHIND EACH UNIT ARE CONSIDERED IMPERVIOUS EXCEPT WHERE PERVIOUS PAVERS ARE REQUIRED.
3. HOURS OF OPERATION FOR SITEWORK, CONSTRUCTION OUTSIDE OF BUILDINGS, AND DELIVERY OR PICKUP OF HEAVY CONSTRUCTION EQUIPMENT SHALL BE MONDAY THROUGH SATURDAY, 7:00 AM - 6:00 PM. SHOULD THE CONTRACTOR DESIRE TO WORK ON A NON-PAID HOLIDAY, THE CONTRACTOR SHALL STATE THE HOLIDAY. I SHALL SUBMIT A REQUEST IN WRITING TO THE BUILDING INSPECTOR AT LEAST FIVE BUSINESS DAYS PRIOR TO THE HOLIDAY IN QUESTION. THE BUILDING INSPECTOR HAS THE DISCRETION TO ALLOW OR DENY THE REQUEST.
4. TRENCHES ARE NOT TO BE LEFT OPEN OVERNIGHT. EXCAVATED AREAS ARE TO BE PROVIDED WITH ADEQUATE FENCING AND "KEEP OUT"/"DANGER" SIGNAGE AS NECESSARY TO THE SATISFACTION OF THE BOARD OF HEALTH.
5. NO BULDER IN EXCESS OF 20 CUBIC YARDS IN VOLUME, TREES, OR TREE STUMPS ARE TO BE BURIED ON-SITE.

1. WATER MAINS SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON.
2. GRAVITY SEWER SHALL BE SDR35 PIPE. CLEANOUTS SHALL BE POSITIONED IN LANDSCAPE AREAS WHERE POSSIBLE. LOW-PRESSURE SEWER PIPE SHALL BE SDR31 EXCEPT AS NOTED.
3. EXISTING WATER AND SEWER MAINS ON PEARL STREET ARE AS NOTED ABOVE.
4. DRAINAGE PIPING SHALL BE HDPE RATED FOR H2O LOADING. (ADS N12 OR EQUAL)
5. THE ELECTRIC COMPANY SHALL DETERMINE THE FINAL LOCATION AND DESIGN OF THE ELECTRIC SERVICE AND TRANSFORMER (IF NEEDED). CONDUITS TO PROPOSED LIGHT POLES SHALL BE DESIGNED BY THE ARCHITECT.
6. MONITORING WELLS IN PROPOSED STORMWATER BASINS SHALL BE 10 FEET DEEP.

1. EROSION CONTROLS SHALL BE INSTALLED PRIOR TO ANY EXCAVATION.
2. ALL SOIL STOCKPILES SHALL BE PROTECTED WITH COMPOST SOCK PERIMETER CONTROLS AND SEEDING/STABILIZATION PROTOCOL.
3. ALL EXISTING CATCH BASINS NEAR THE SITE AND ALL PROPOSED CATCH BASINS ARE TO BE PROTECTED WITH A SILTSCAT UNTIL ALL UPSTREAM AREAS ARE STABILIZED. CLEAN AS NEEDED THROUGHOUT CONSTRUCTION.
4. AFTER ROUGH-GRADING, PROTECT INFILTRATION BASIN BOTTOM FROM COMPACTION FROM EQUIPMENT. SHOULD SUCH COMPACTION OCCUR, TILL THE UPPER 12-INCHES PRIOR TO INSTALLING LOAM.
5. PROTECT STORMWATER INFILTRATION BASIN FROM SEDIMENT WITH CHECKDAMS UNTIL THE UPSTREAM AREA IS GRADED.
6. EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE CONSTRUCTION ACTIVITY AND UNTIL SUCH TIME AS THE UPSTREAM AREAS ACHIEVE FINAL STABILIZATION AS DESCRIBED HEREIN. SEDIMENT WILL BE REMOVED ALONG HAYBALES, SILT FENCE, OR FILTER SOCKS WHEN THE DEPTH EXCEEDS FOUR-INCHES. ALL CONTROL MEASURES WILL BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. IF SITE INSPECTIONS IDENTIFY CONTROL MEASURES THAT ARE NOT OPERATING EFFECTIVELY OR FINDS OTHER PROBLEMS, THE OPERATOR MUST:
  - INITIATE WORK TO CORRECT THE PROBLEM IMMEDIATELY UPON DISCOVERY AND COMPLETE THE WORK BY THE CLOSE OF THE NEXT WORK DAY IF THE PROBLEM CAN BE CORRECTED THROUGH ROUTINE MAINTENANCE;
  - FOR MORE SIGNIFICANT REPAIRS OR WHERE INSPECTIONS DETERMINE THAT ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES ARE NEEDED, SUCH WORK MUST BE COMPLETED AND OPERATION NO LATER THAN 7 CALENDAR DAYS AFTER DISCOVERY OF THE PROBLEM.
7. REFER TO THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR MORE REQUIREMENTS AND PROVISIONS.

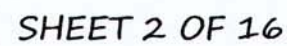
1. THE PROVISIONS OF THIS SECTION ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE.
2. CONSTRUCTION IS EXPECTED TO COMMENCE IN THE FALL OF 2018.
3. THE SITE IS EXPECTED TO BE DEVELOPED IN TWO PRINCIPAL PHASES. IN THE INITIAL PHASE, THE ENTIRE DEVELOPMENT AREA WILL BE CLEARED SO THAT A CONTINUOUS DRIVEWAY FROM PEARL STREET THROUGH THE AORN STREET EMERGENCY EGRESS CAN BE CONSTRUCTED WITH THE INITIAL PHASE.
4. PHASE 1 IS EXPECTED TO INVOLVE THE CONSTRUCTION OF THE REAR VILLAGE AREA (UNITS 1 THROUGH 28, INCLUDING ALL APPURTENANT WORK AND THE ASSOCIATED STORMWATER BASIN). PHASE 1 WILL ALSO INCLUDE THE CONSTRUCTION OF EMERGENCY EGRESS FROM AORN STREET IN A MANNER ACCEPTABLE TO THE MILLIS FIRE DEPARTMENT. PHASE 1 IS ALSO EXPECTED TO INCLUDE THE INSTALLATION OF FILL WITHIN THE PHASE 2 TO SUBGRADE LEVEL IN ORDER TO PREPARE IT FOR DEVELOPMENT.
5. PHASE 2 IS EXPECTED TO INCLUDE THE FRONT VILLAGE AREA (UNITS 29 THROUGH 48), INCLUDING ALL APPURTENANT WORK AND THE ASSOCIATED STORMWATER BASIN. THE TIMING OF PHASE 2 WILL DEPEND ON MARKET CONDITIONS AND THE ASSOCIATED DEMAND FOR UNITS, BUT IS PLANNED TO COMMENCE IN 2019.
6. THE EMERGENCY ACCESS LANE FROM AORN STREET IS NOT PLANNED TO BE USED FOR CONSTRUCTION ACCESS TO THE SITE EXCEPT FOR THE TIME NEEDED TO IMPORT FILL INTO THE FRONT VILLAGE AREA DURING THE PHASE 1 CONSTRUCTION. AT OTHER TIMES, THE EMERGENCY ACCESS LANE WILL NOT BE USED FOR CONSTRUCTION ACCESS TO AND FROM THE SITE.

1. INSTALL CONSTRUCTION ENTRANCE, CATCH BASIN SILT SACKS, AND STAKEOUT EROSION AND PERIMETER CONTROLS (WHICH WILL DELINEATE THE LIMIT OF WORK FOR THE PROJECT);
2. DEMARCATHE THE LOCATION OF EXISTING UTILITIES ON AND AROUND THE CONSTRUCTION AREA;
3. CLEAR THE PROPOSED ENTRY DRIVEWAY AREAS AND INSTALL THE CONSTRUCTION ENTRANCE APRON(S);
4. CLEAR AND GRUB THE REMAINING PORTIONS OF THE DEVELOPMENT AREA;
5. STRIP AND STOCKPILE TOPSOIL;
6. ON THE BALANCE OF THE SITE, COMMENCE ROUGH GRADING TO SUB GRADE ELEVATIONS;
7. INSTALL NEW SITE UTILITIES, INCLUDING THE STORMWATER MANAGEMENT SYSTEM;
8. PAVE THE DRIVEWAY AND SIDEWALK TO BINDER COURSE;
9. COMMENCE DWELLING UNIT CONSTRUCTION (UNIT CONSTRUCTION IS LIKELY TO OCCUR SIMULTANEOUSLY WITH THE WORK NOTED IN ITEMS 6-9 ABOVE);
10. LOAM, SEED, AND STABILIZE DISTURBED AREAS;
11. TOP COURSE PAVE THE DRIVEWAY AND SIDEWALK;
12. CLEANOUT ALL CATCH BASINS IN THE PORTION OF THE SITE AFFECTED BY CONSTRUCTION ACTIVITIES AFTER THE SITE IS FULLY STABILIZED.

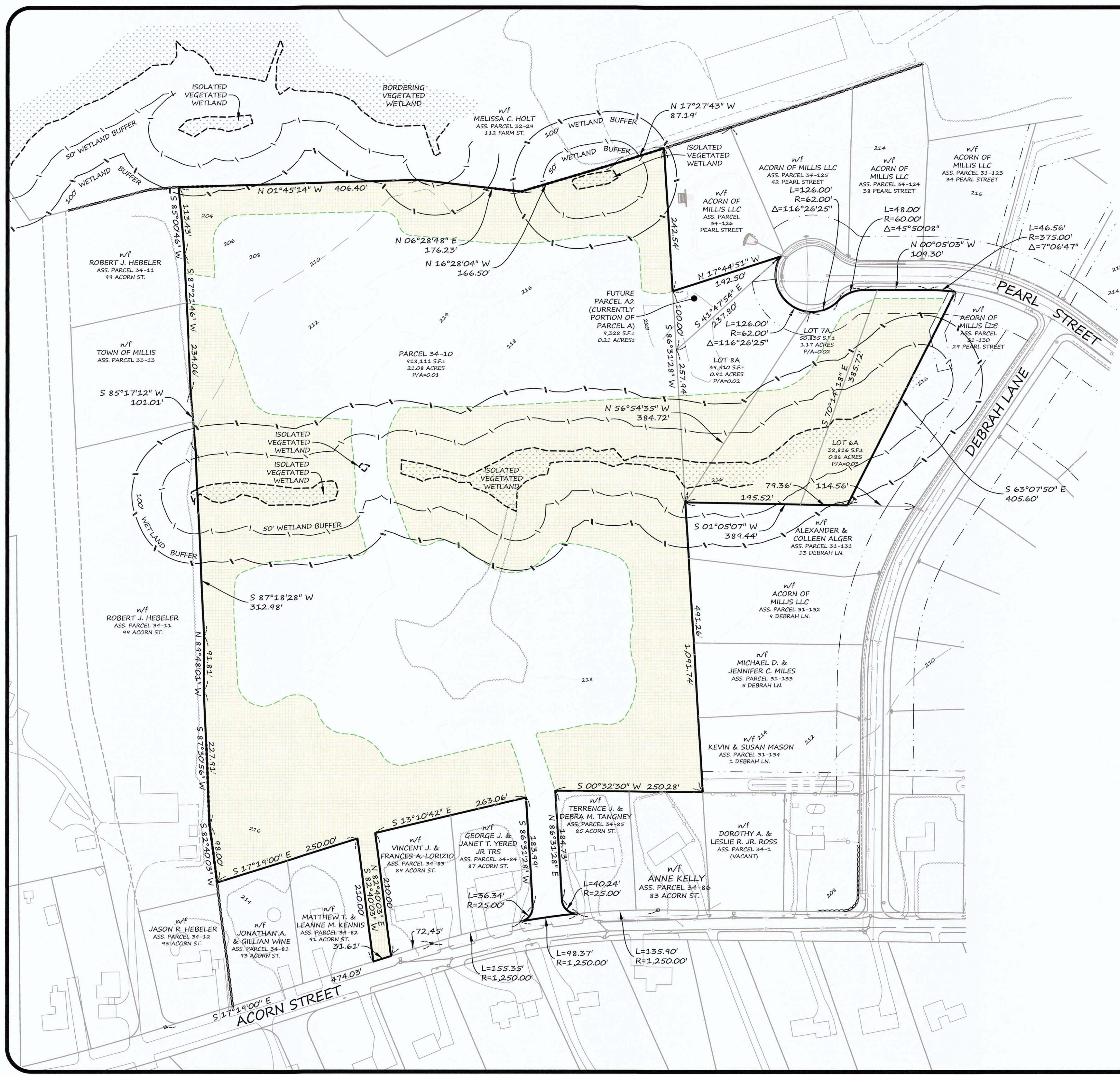


- CB:** EXISTING CATCH BASIN
- CBP:** PROP. SINGLE-GRATE CATCH BASIN
- CCB:** PROP. DOUBLE-GRATE CATCH BASIN
- CDM:** CURB DRAIN TREATMENT UNIT
- ODMH:** DRAIN MANHOLE
- TR:** DRENCH DRAIN
- INFIL TR:** INFILTRATION TRENCH
- RCP:** REINFORCED CONCRETE PIPE
- PVC:** POLYVINYL CHLORIDE PIPE
- S:** SEWER MANHOLE
- X<sup>5</sup>:** "5" SEWER PIPELINE
- X<sup>6</sup>:** "6" SEWER SERVICE CLEANOUT
- X<sup>W</sup>:** "W" WATER MAIN
- H<sup>HYD</sup>:** HYDRANT
- G.V.**: G.WATER GATE VALVE
- C.S.**: WATER SERVICE CURB STOP
- M.B.**: WATER SERVICE METER BOX
- GAS:** GAS PIPELINE
- L.P.**: LIGHT POLE
- U.P.**: UTILITY POLE
- G.C.**: GROUND CURE
- S.P.**: TRAFFIC SIGNAL POLE
- 252                  EXISTING CONTOUR
- 252A               PROPOSED CONTOUR
- E.O.P.**      EDGE OF PAVEMENT
- C.F.**        CAGE COD BITUMINOUS CURB
- V.B.B.**     VERTICAL BITUMINOUS BERM
- S.G.C.**     SLOPED GRANITE CURB
- V.R.C.**     VERTICAL GRANITE CURB
- V.C.C.**     VERTICAL CONCRETE CURB
- E.C.S.**     EDGE CONCRETE SLAB
- G.E.V.**     GATE VALVE
- C.L.F.**     CHAIN LINK FENCE
- W.S.F.**    WOOD STOCKADE FENCE
- P.P.F.**     PVC PICKET FENCE
- G.U.A.R.D.** GUARD RAIL
- C.H.**       HANDICAP CURB CUT

ACORN PLACE  
KEY, LEGEND & NOTES  
PLAN OF LAND  
IN  
MILLIS, MA







OWNER:  
BRIAN DMYTRYCK  
1275 MAIN STREET  
MILLIS, MA 02054

ACORN OF MILLIS, LLC  
275 TURNPIKE STREET SUITE 300  
CANTON MA, 02021

APPLICANT:  
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38 BENJAMINS GATE  
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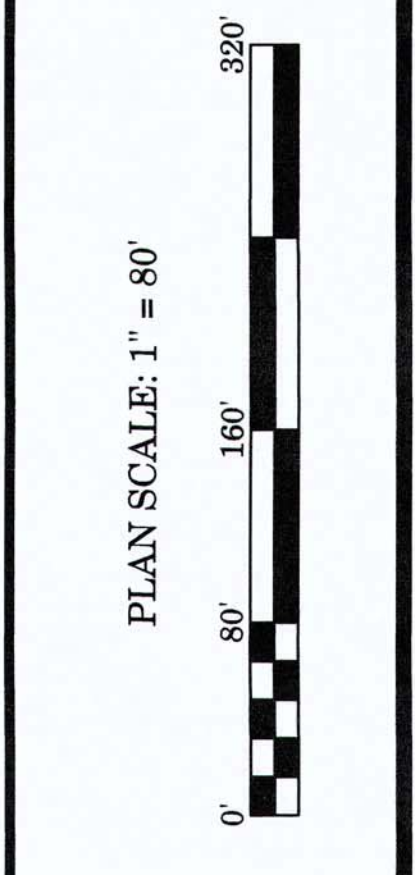
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DATE APPROVAL ISSUED: 11/13/18

PLAN ENDORSEMENT DATE: 1/15/19

*[Signature]*  
MILLIS PLANNING BOARD



| PLAN DATE: JULY 12, 2018    |        |
|-----------------------------|--------|
| REVISION                    | DATE   |
| REVISIONS PER TOWN COMMENTS | BY     |
| 2018-09-27                  | D.J.M. |
| 2018-10-12                  | D.J.M. |
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ACORN PLACE  
EXISTING CONDITIONS  
PLAN OF LAND  
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MILLIS, MA

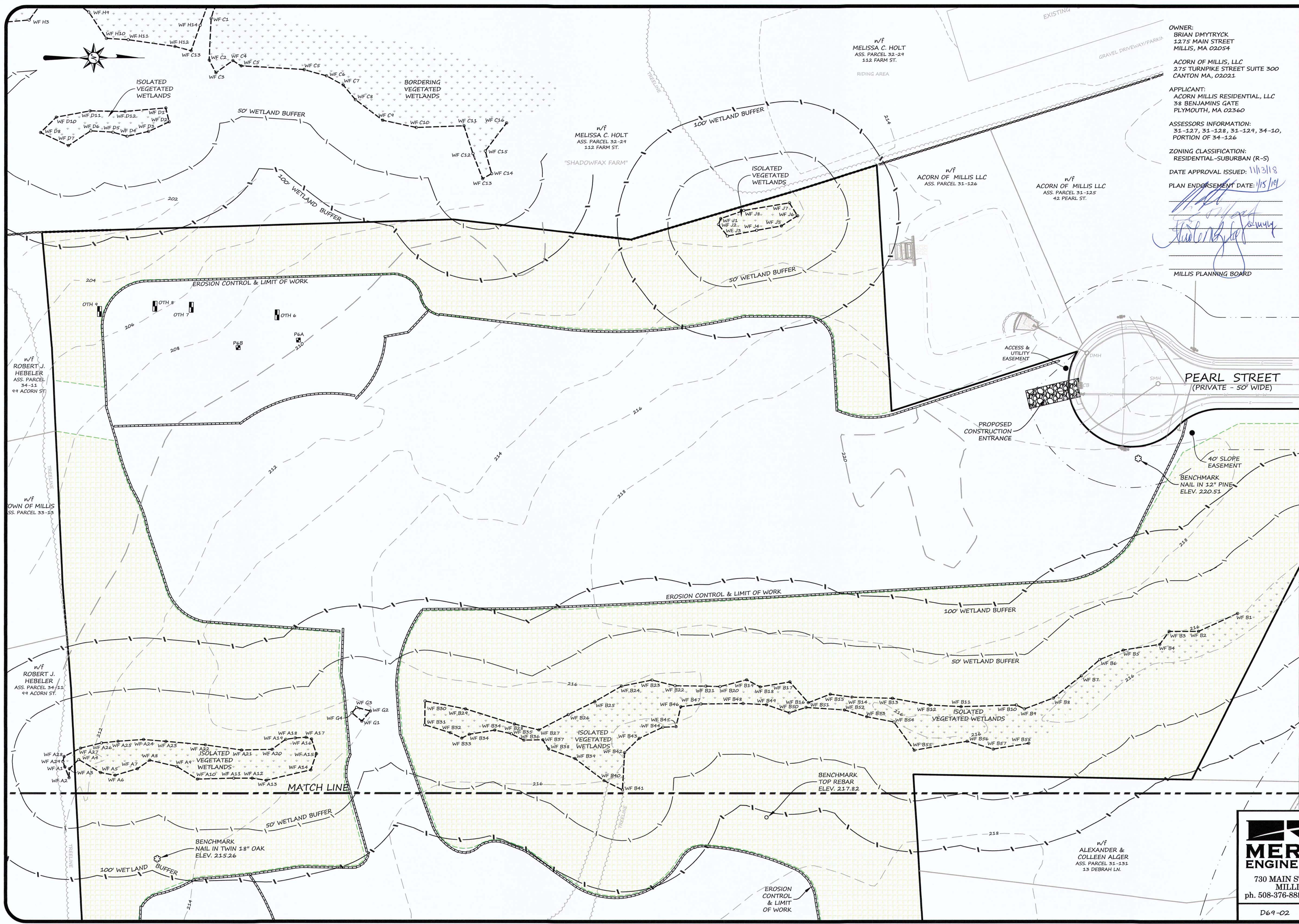
**MERRIKIN**  
ENGINEERING, LLP

730 MAIN STREET, SUITE 2C  
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ph. 508-376-8883 fax 508-376-8823









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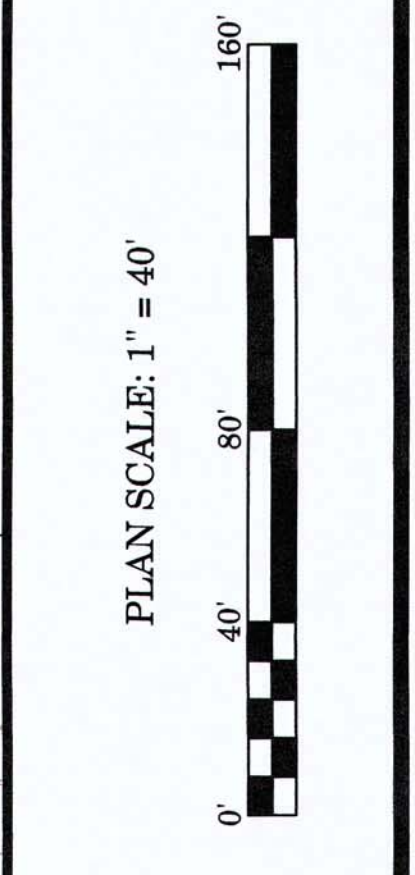
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| REVISIONS PER TOWN COMMENTS | 2018-09-27 | DJM |
| REVISIONS PER TOWN COMMENTS | 2018-10-12 | DJM |

ACORN PLACE  
EXISTING CONDITIONS  
PLAN OF LAND  
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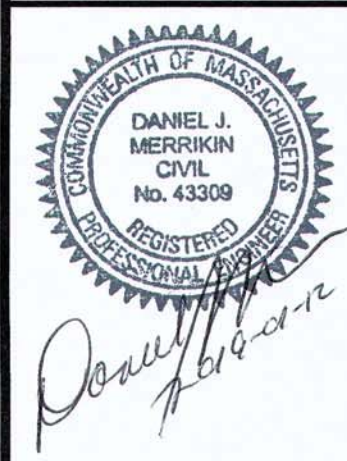
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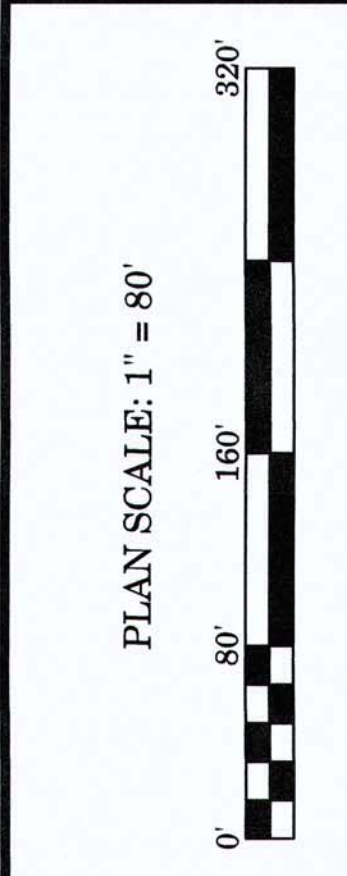
MILLIS PLANNING BOARD



- LANDSCAPE NOTES:**
- TREES SHALL BE 1.5" CALIPER AND SHALL COMPRISE A MIX OF THE FOLLOWING SPECIES:
    - CRIMSON KING MAPLE
    - PYRUS CALLERYANA (PEAR)
    - ACER SACCHARUM (SUGAR MAPLE)
    - GLEDITSIA (HONEY LOCUST)
  - LANDSCAPE AREAS SHALL INCLUDE LAWN AREAS, MULCH AREAS AND PLANTING AREAS.
  - THE STORMWATER BASINS SHALL BE PLANTED WITH A WILDFLOWER SEED MIX.

- LAYOUT NOTES:**
- THE SLOPE OF THE PAVEMENT IN HANDICAP PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION.
  - SNOW STORAGE IN WINDROWS ALONG PAVEMENT EDGE AND IN OTHER AREAS SHOWN ON THIS PLAN.
  - EXCEPT FOR HANDICAP SPACES, PARKING SPACES SHALL BE 9' WIDE X 21' DEEP. HANDICAP SPACES SHALL BE 8' WIDE X 21' DEEP.

- ZONING NOTES:**
- USE:  
SENIOR RESIDENTIAL COMMUNITY (SRC)
- LOT FRONTAGE (WIDTH):  
REQUIRED: 125'  
PROVIDED: 384.36'
- LOT AREA:  
REQUIRED AREA: 435,600 S.F.  
PROVIDED: 1,056,599 S.F.±  
REQUIRED UPLAND AREA: 1,045,440 S.F. (0.5 ACRES PER UNIT)  
PROVIDED: 1,056,599 S.F.±
- LOT SHAPE FACTOR:  
REQUIRED: P/A=0.08  
PROVIDED: 0.01
- OPEN SPACE  
REQUIRED: 35% (369,809 S.F.)  
PROVIDED: 52% (549,440 S.F.±)
- COVERAGE BY STRUCTURES:  
MAX. ALLOWED: 25%  
PROVIDED: 7.8%
- PARKING:  
REQUIRED: 2 SPACES/UNIT \* 48 UNITS= 96 SPACES  
PROVIDED: 35+104=139 SPACES (EACH MULTI FAMILY UNIT HAS 1 GARAGE SPACE AND 1 DRIVEWAY SPACE, EACH SINGLE FAMILY UNIT HAS 2 GARAGE SPACES AND 2 DRIVEWAY SPACES. THERE ARE 35 ADDITIONAL SPACES ACROSS THE PROPERTY)
- SETBACKS:  
FRONT YARD:  
MIN. REQUIRED: 40'  
PROVIDED: 40.4'  
REAR YARD:  
MIN. REQUIRED: 40'  
PROVIDED: 110.0'  
RIGHT SIDE YARD:  
MIN. REQUIRED: 20'  
PROVIDED: 44.2'  
LEFT SIDE YARD:  
MIN. REQUIRED: 20'  
PROVIDED: 110.5'
- LOT DEPTH:  
MIN. REQUIRED: 250'  
PROVIDED: 1,000.7'
- BUILDING HEIGHT:  
MAX. ALLOWED: 35'  
PROVIDED: <35'



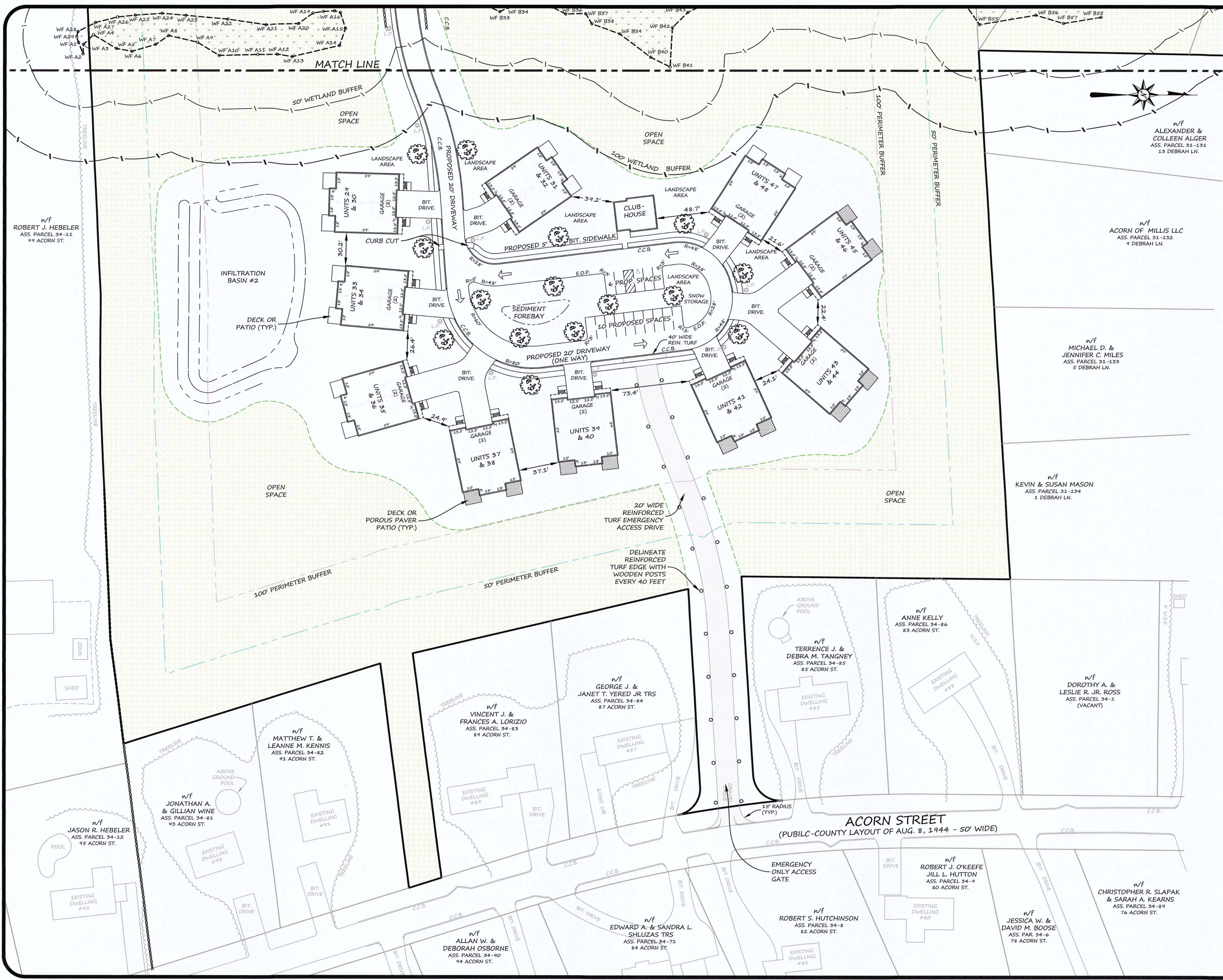
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| REVISIONS PER TOWN COMMENTS | 2018-10-31 | D.J.M. |

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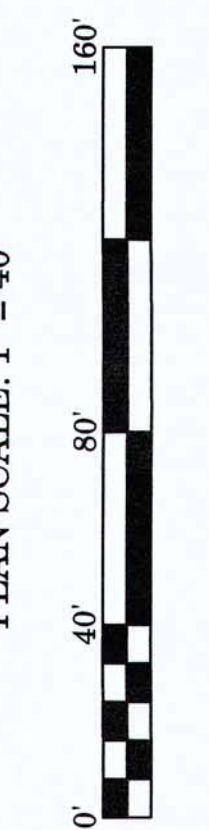
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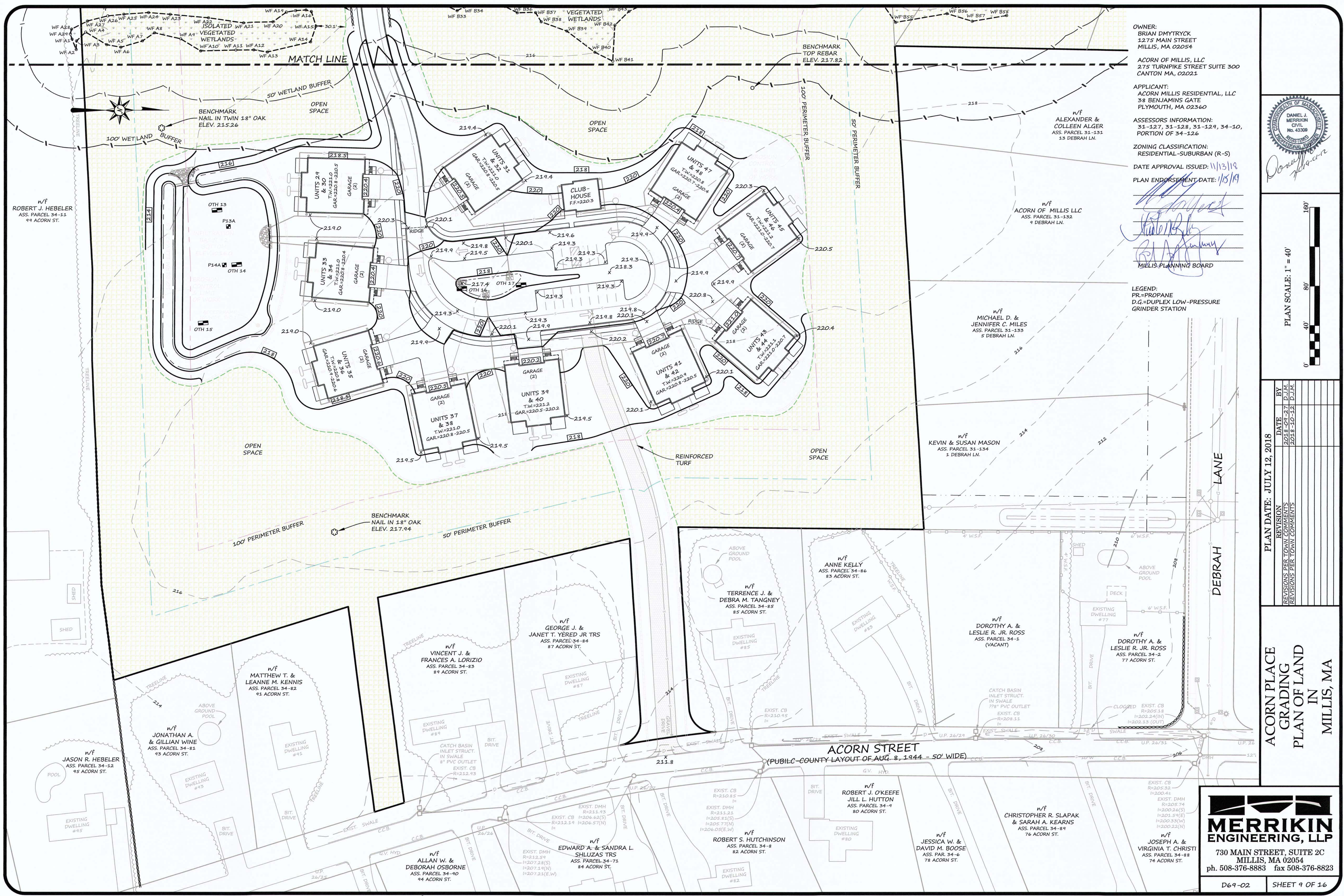


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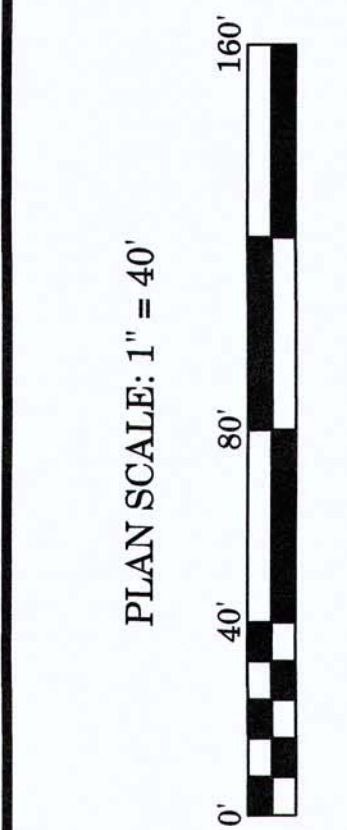
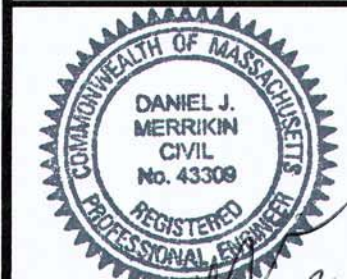
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LEGEND:  
PR=PROPANE  
D.G.=DUPLEX LOW-PRESSURE  
GRINDER STATION



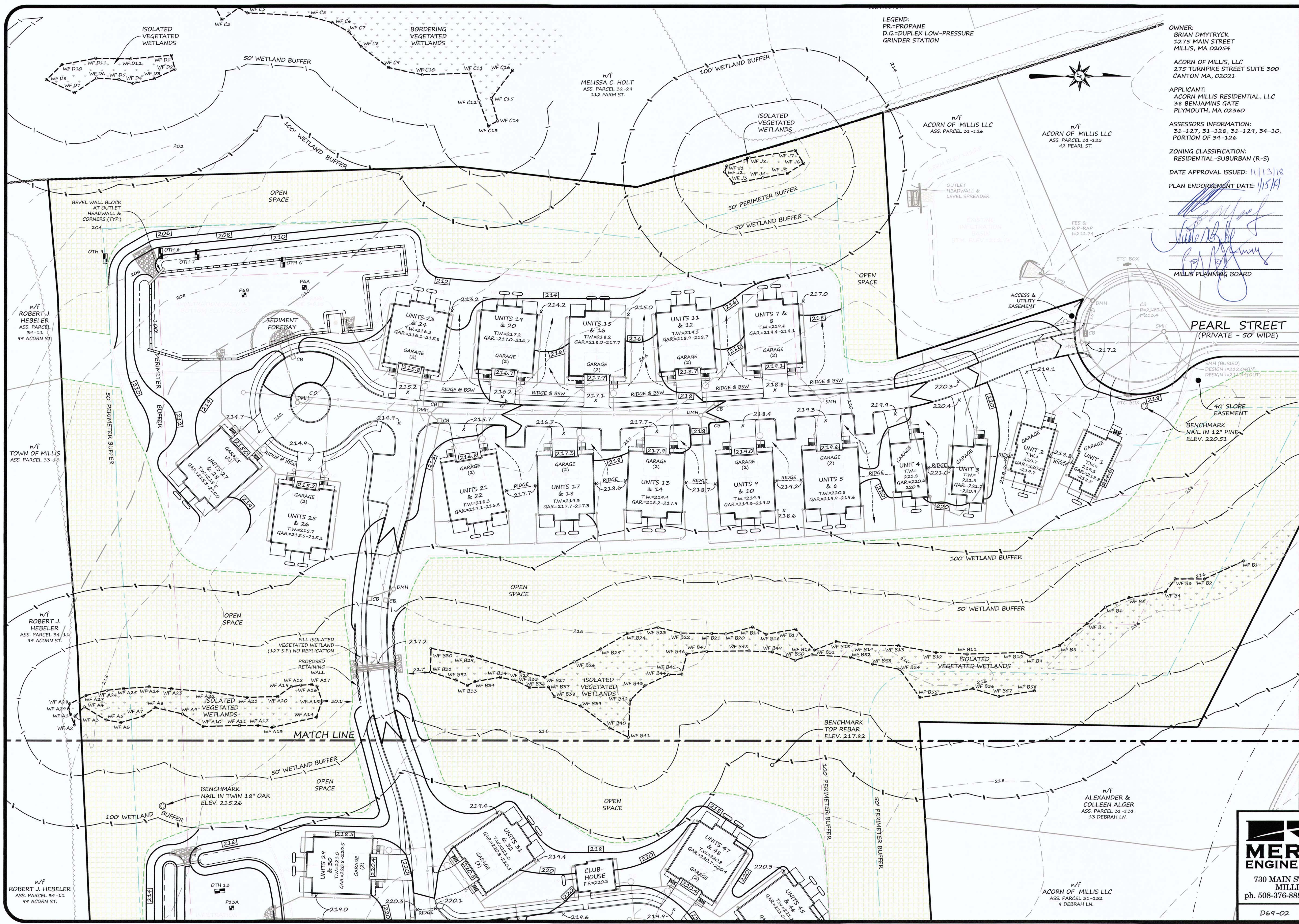
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LEGEND:  
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D.G.=DUPLEX LOW-PRESSURE  
GRINDER STATION

OWNER:  
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275 TURNPIKE STREET SUITE 300  
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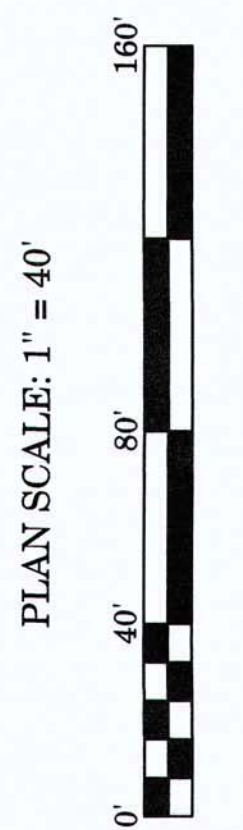
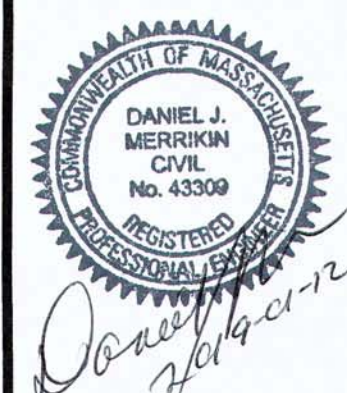
APPLICANT:  
ACORN MILLIS RESIDENTIAL, LLC  
38 BENJAMINS GATE  
PLYMOUTH, MA 02360

ASSESSORS INFORMATION:  
31-127, 31-128, 31-129, 34-10,  
PORTION OF 34-126

ZONING CLASSIFICATION:  
RESIDENTIAL-SUBURBAN (R-S)

DATE APPROVAL ISSUED: 11/13/18  
PLAN ENDORSEMENT DATE: 1/15/19

MILLIS PLANNING BOARD



| REVISION                    | DATE       | BY  |
|-----------------------------|------------|-----|
| REVISIONS PER TOWN COMMENTS | 2018-07-27 | DJM |
| REVISIONS PER TOWN COMMENTS | 2018-10-12 | DJM |

ACORN PLACE  
GRADING  
PLAN OF LAND  
IN  
MILLIS, MA



730 MAIN STREET, SUITE 2C  
MILLIS, MA 02054  
ph. 508-376-8883 fax 508-376-8823





OWNER:  
BRIAN DMYTRYCK  
1275 MAIN STREET  
MILLIS, MA 02054

ACORN OF MILLIS, LLC  
275 TURNPIKE STREET SUITE 300  
CANTON MA, 02021

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ZONING CLASSIFICATION:  
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DATE APPROVAL ISSUED: 11/13/19

PLAN ENDORSEMENT DATE: 1/15/19

w/f  
ALEXANDER &  
COLLEEN ALGER  
ASS. PARCEL 31-131  
13 DEBRAH LN.

w/f  
ACORN OF MILLIS LLC  
ASS. PARCEL 31-132  
9 DEBRAH LN.

w/f  
MICHAEL D. &  
JENNIFER C. MILES  
ASS. PARCEL 31-133  
5 DEBRAH LN.

w/f  
KEVIN & SUSAN MASON  
ASS. PARCEL 31-134  
5 DEBRAH LN.

w/f  
ANNE KELLY  
ASS. PARCEL 34-86  
83 ACORN ST.

w/f  
TERRENCE J. &  
DEBRA M. TANGNEY  
ASS. PARCEL 34-85  
85 ACORN ST.

w/f  
DOROTHY A. &  
LESLIE R. JR. ROSS  
ASS. PARCEL 34-1  
(VACANT)

w/f  
DOROTHY A. &  
LESLIE R. JR. ROSS  
ASS. PARCEL 34-2  
77 ACORN ST.

w/f  
MATTHEW T. &  
LEANNE M. KENNIS  
ASS. PARCEL 34-82  
91 ACORN ST.

w/f  
JONATHAN A. &  
GILLIAN WINE  
ASS. PARCEL 34-81  
93 ACORN ST.

w/f  
VINCENT J. &  
FRANCES A. LORIZIO  
ASS. PARCEL 34-83  
89 ACORN ST.

w/f  
GEORGE J. &  
JANET T. YERED JR TRS  
ASS. PARCEL 34-84  
87 ACORN ST.

w/f  
ROBERT J. O'KEEFE  
JILL L. HUTTON  
ASS. PARCEL 34-9  
80 ACORN ST.

w/f  
ROBERT S. HUTCHINSON  
ASS. PARCEL 34-8  
82 ACORN ST.

w/f  
EDWARD A. & SANDRA L.  
SHLUZAS TRS  
ASS. PARCEL 34-71  
84 ACORN ST.

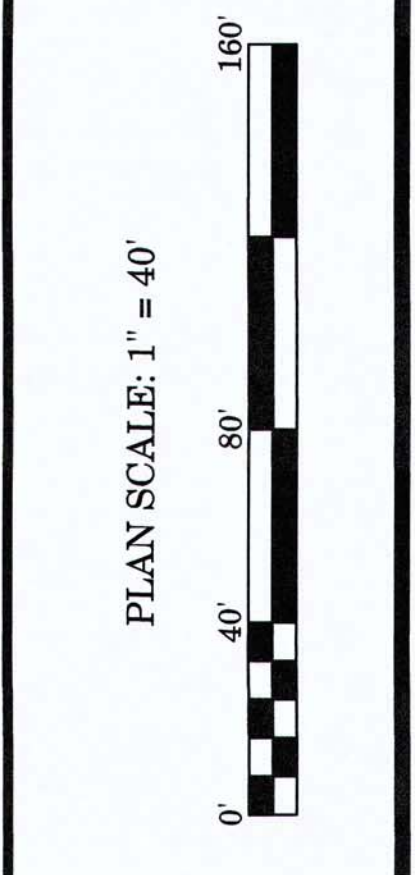
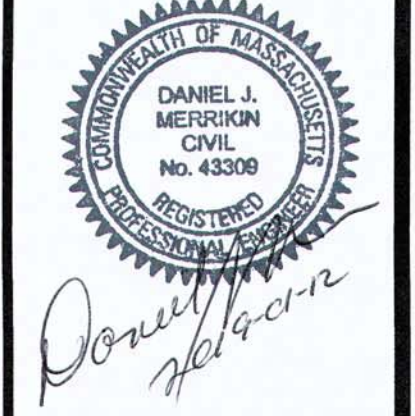
w/f  
ALLAN W. &  
DEBORAH OSBORNE  
ASS. PARCEL 34-90  
94 ACORN ST.

w/f  
JESSICA W. &  
DAVID M. BOOSE  
ASS. PAR. 34-6  
78 ACORN ST.

w/f  
CHRISTOPHER R. SLAPAK  
& SARAH A. KEARNS  
ASS. PARCEL 34-89  
76 ACORN ST.

w/f  
JOSEPH A. &  
VIRGINIA T. CHRISTI  
ASS. PARCEL 34-88  
74 ACORN ST.

LEGEND:  
PR=PROPANE  
D.G.=DUPLEX LOW-PRESSURE  
GRINDER STATION



| REVISION                    | DATE       | BY     |
|-----------------------------|------------|--------|
| REVISIONS PER TOWN COMMENTS | 2018-09-27 | D.J.M. |
| REVISIONS PER TOWN COMMENTS | 2018-10-12 | D.J.M. |
|                             |            |        |
|                             |            |        |
|                             |            |        |
|                             |            |        |
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|                             |            |        |
|                             |            |        |
|                             |            |        |

ACORN PLACE  
UTILITY  
PLAN OF LAND  
IN  
MILLIS, MA

**MERRIKIN ENGINEERING, LLP**

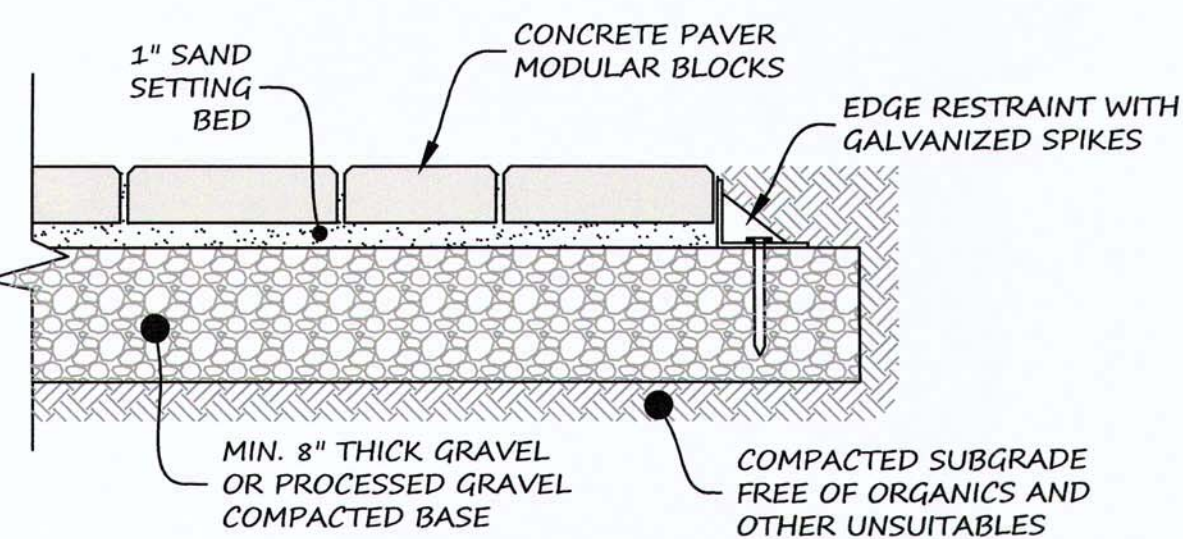
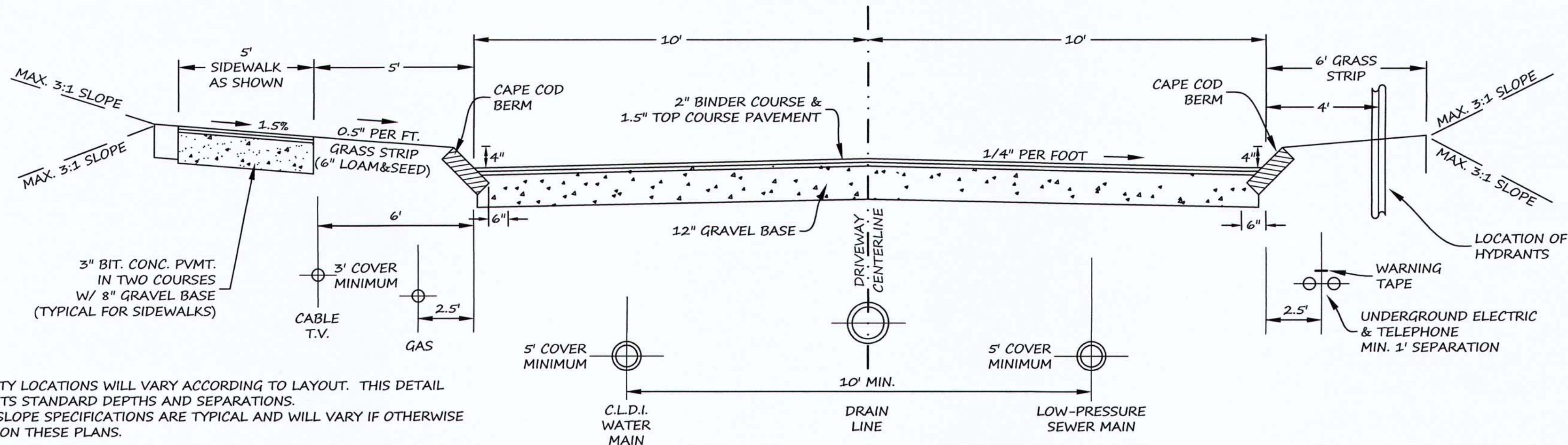
730 MAIN STREET, SUITE 2C  
MILLIS, MA 02054  
ph. 508-376-8883 fax 508-376-8823

D69-02 SHEET 11 OF 16

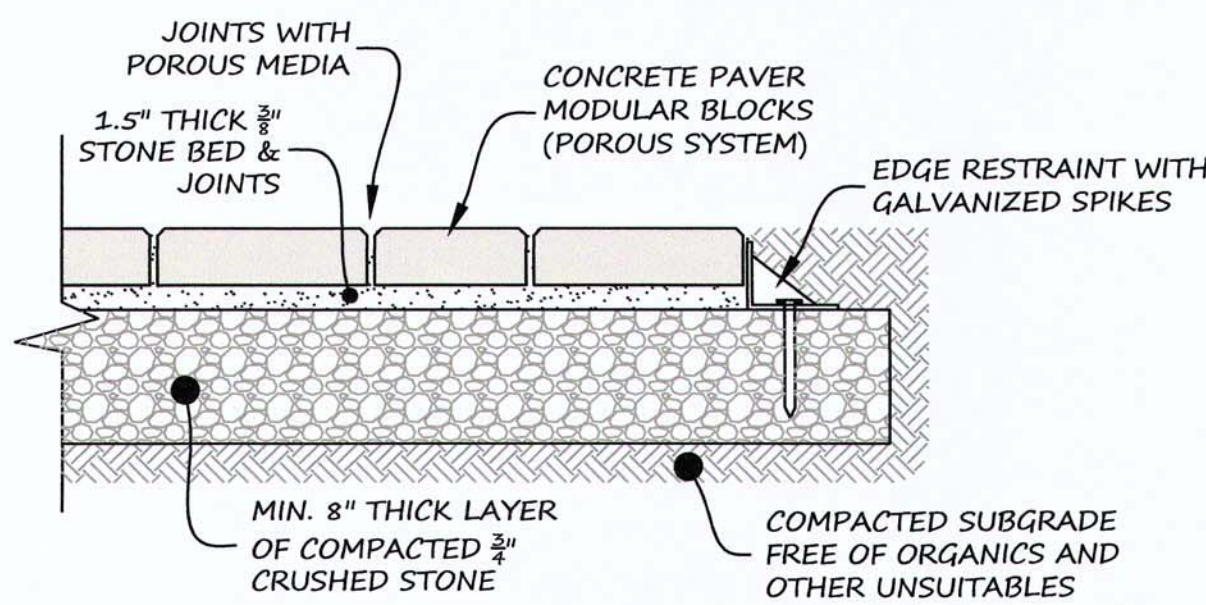




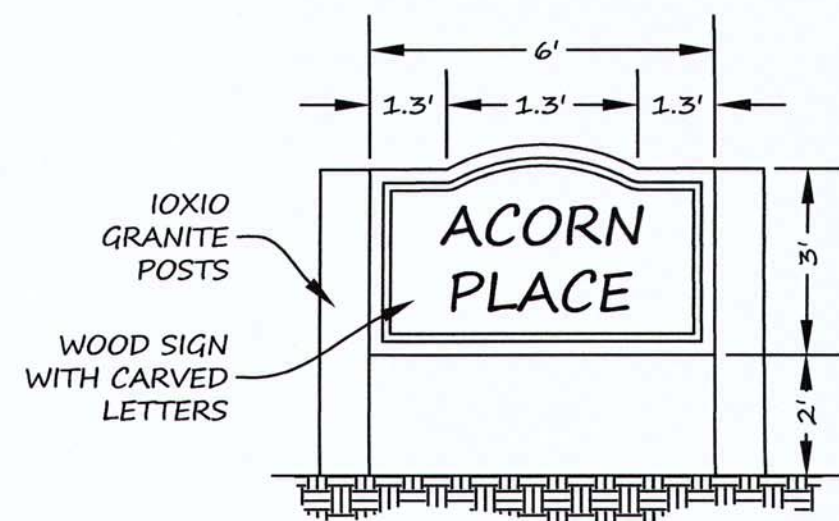




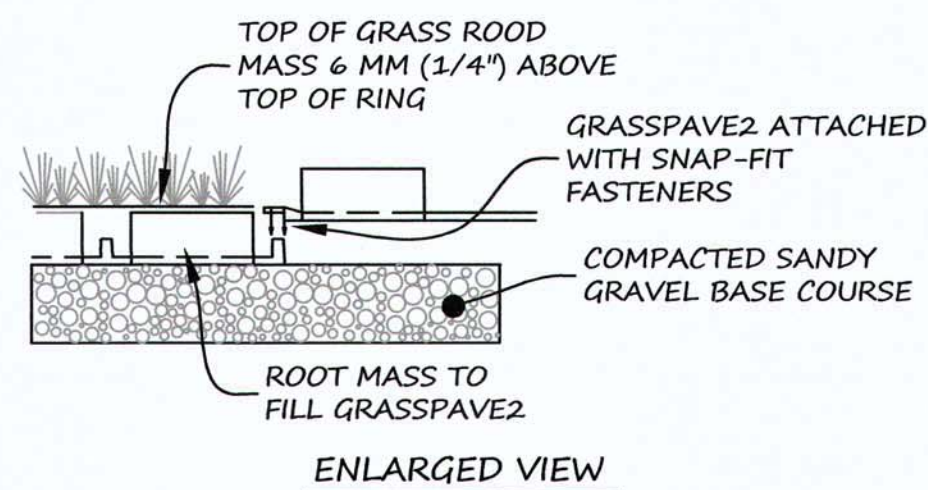
**CONCRETE PAVER DETAIL**  
NOT TO SCALE



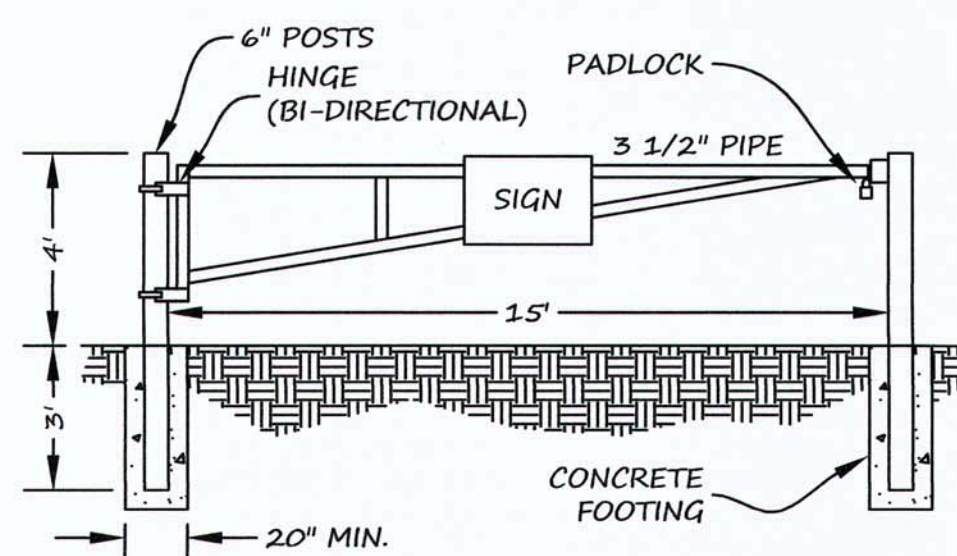
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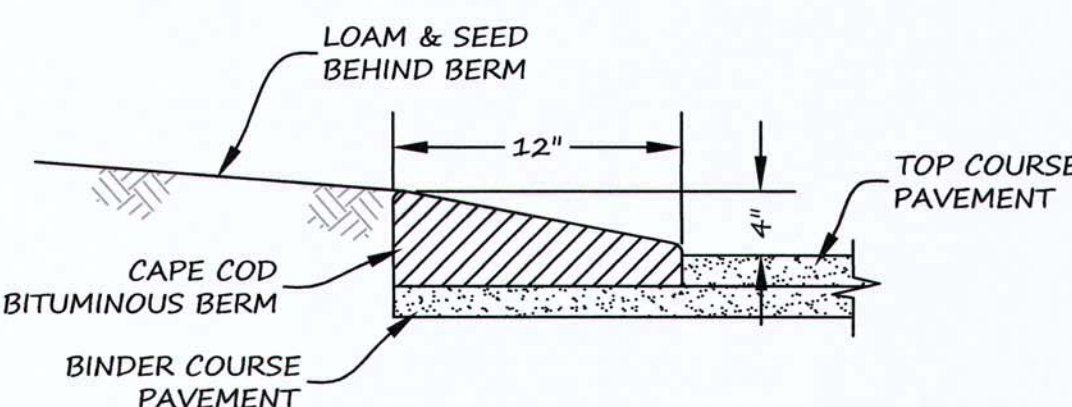
**SIGN DETAIL**  
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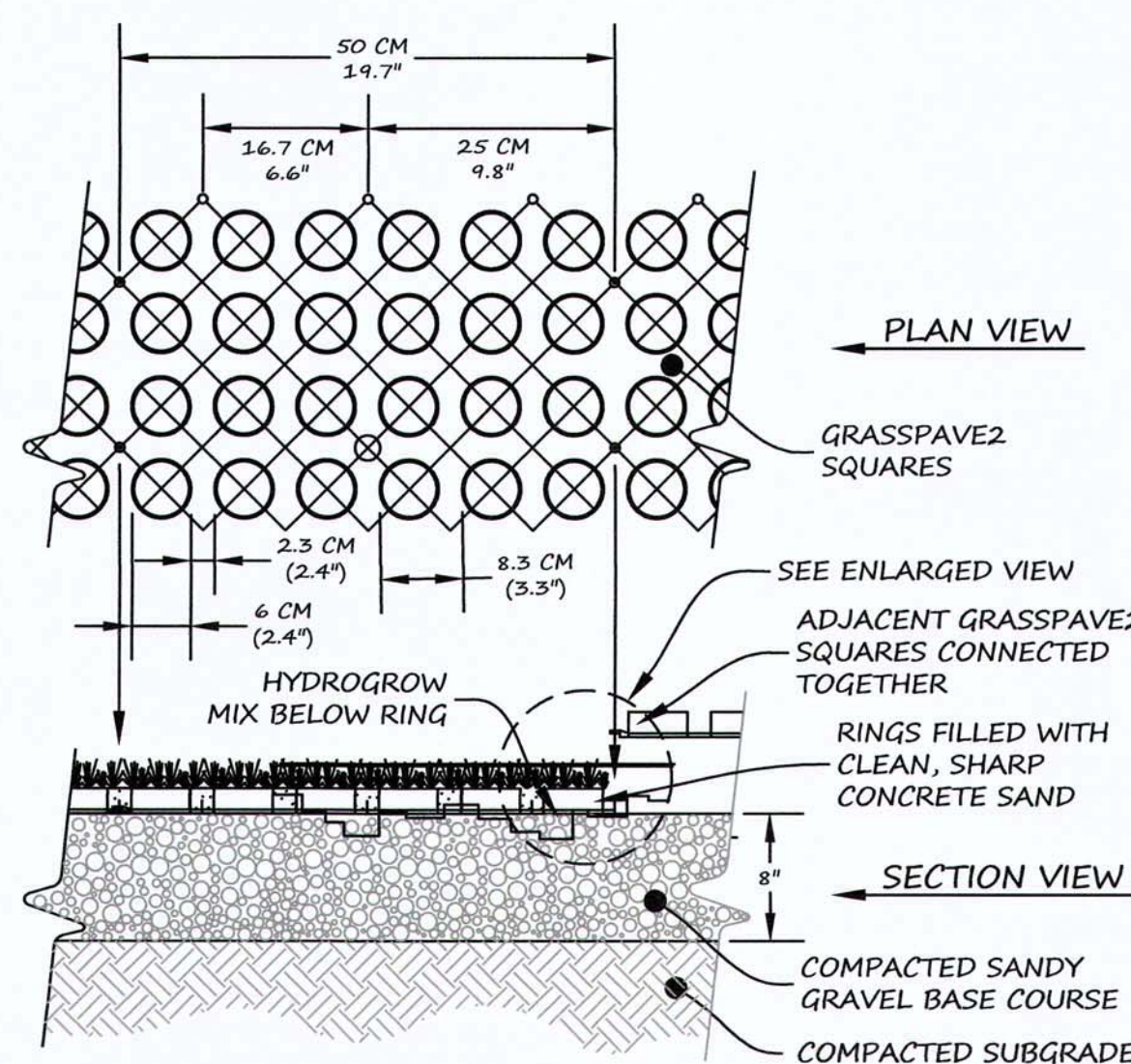
**REINFORCED TURF DETAIL**  
(NOT TO SCALE)



**ACCESS GATE**  
NOT TO SCALE



**CAPE COD BERM DETAIL**  
(NO SCALE)

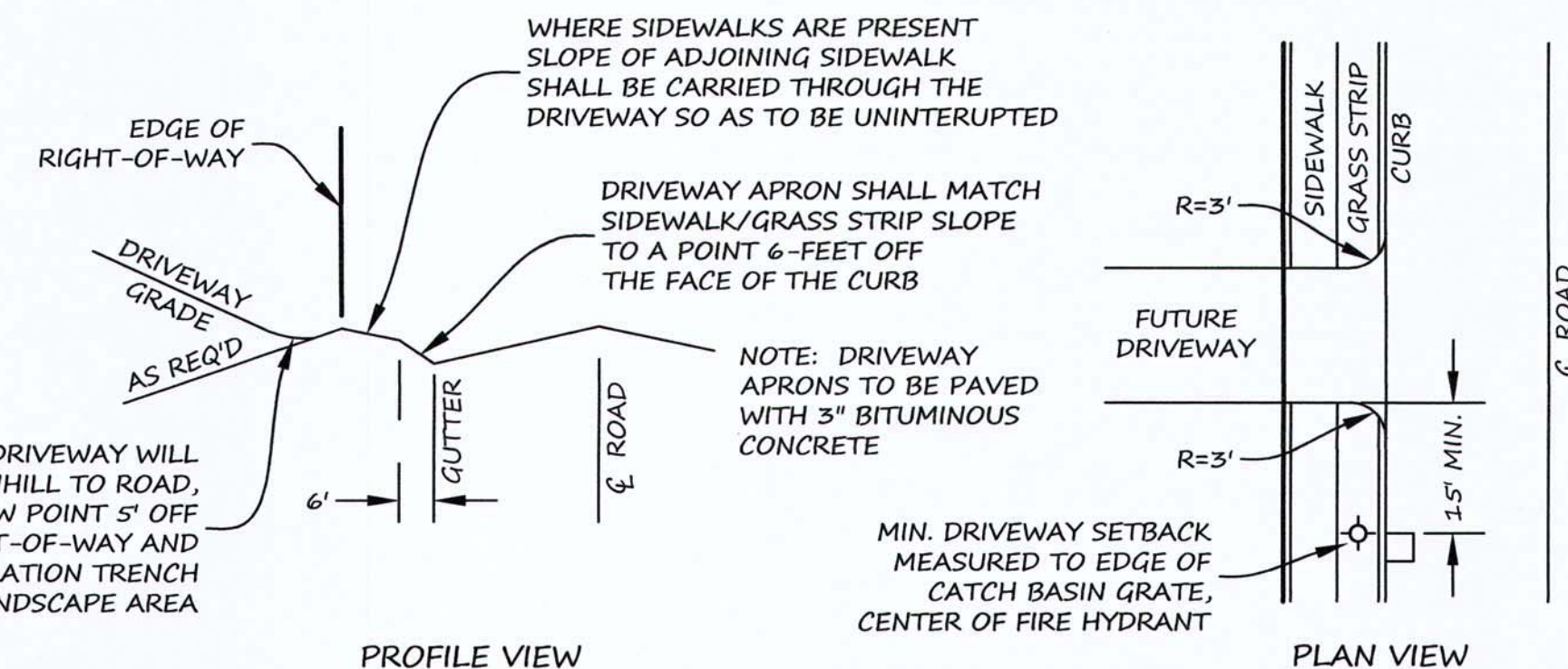


BLACK LANTERN-STYLE FIXTURE. MIN. HEIGHT: 15". MIN. LIGHT SOURCE: 2-60 WATT BULBS.

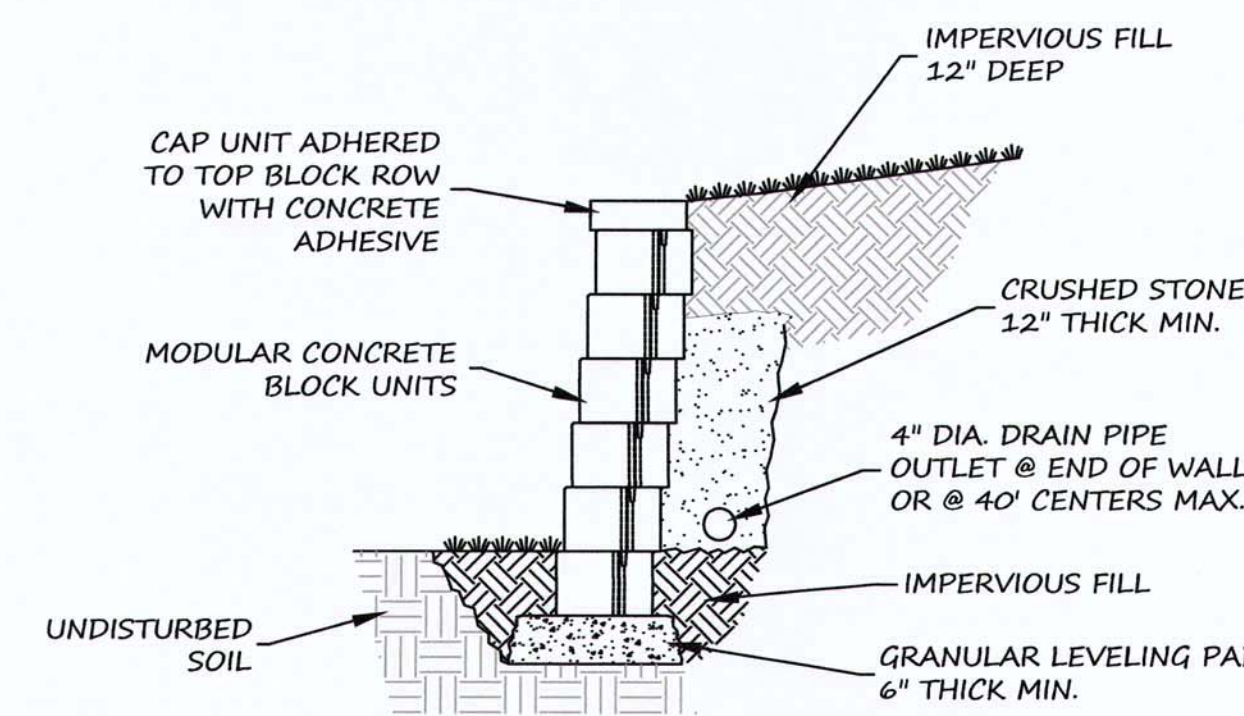
DECORATIVE SQUARE OR ROUND POST (MIN. 3"x3"). COLOR: WHITE OR BLACK.

POST EMBEDDED IN MIN. 18" DEEP x 12" WIDE CONCRETE BASE

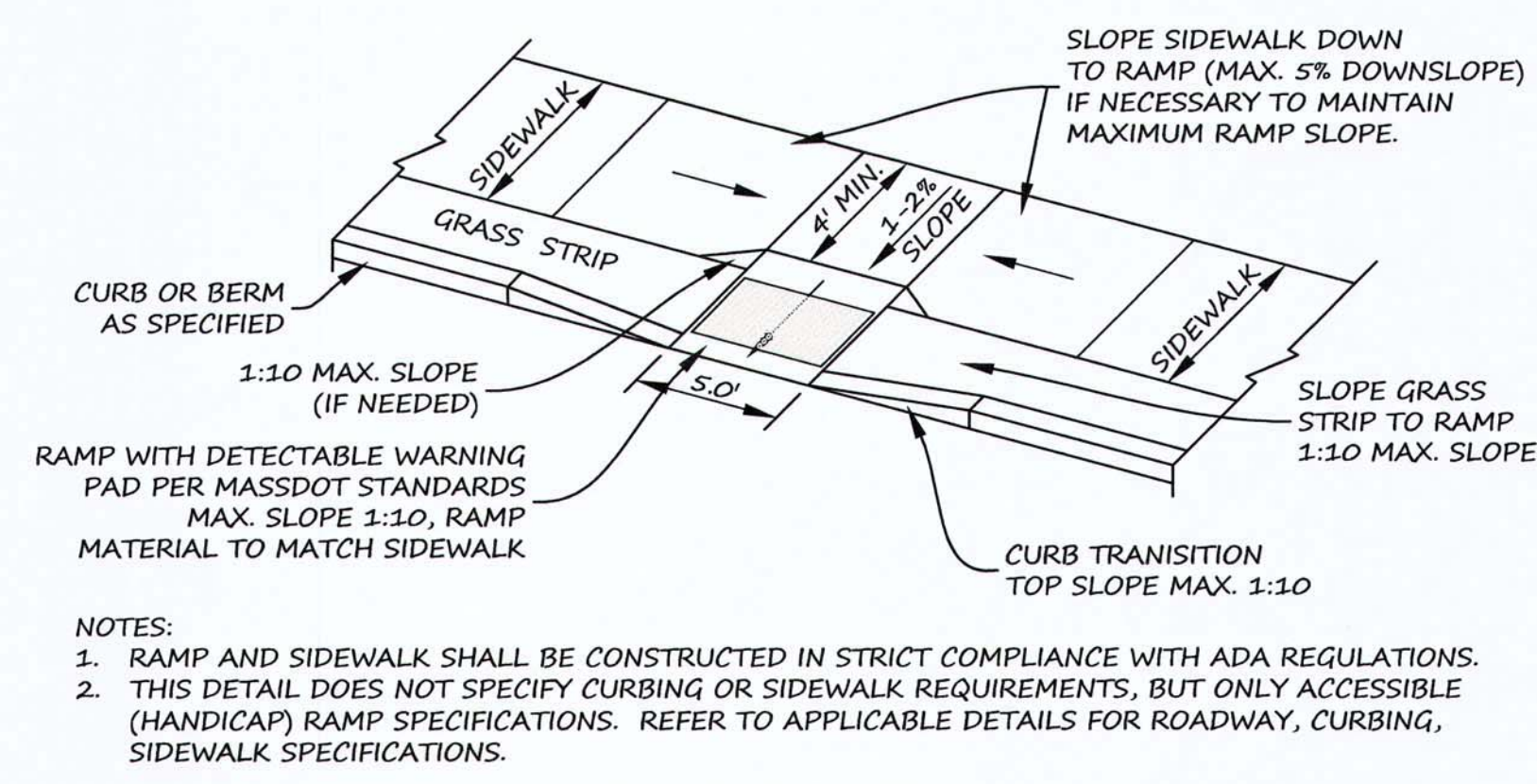
**RESIDENTIAL LAMP POST**  
NOT TO SCALE



**TYPICAL DRIVEWAY APRON DETAIL**  
NOT TO SCALE



**TYPICAL "SMALL BLOCK" RETAINING WALL**  
NOT TO SCALE



**CURB CUT DETAIL**  
NOT TO SCALE

OWNER:  
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ACORN OF MILLIS, LLC  
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PLAN ENDORSEMENT DATE: 11/15/19

MILLIS PLANNING BOARD

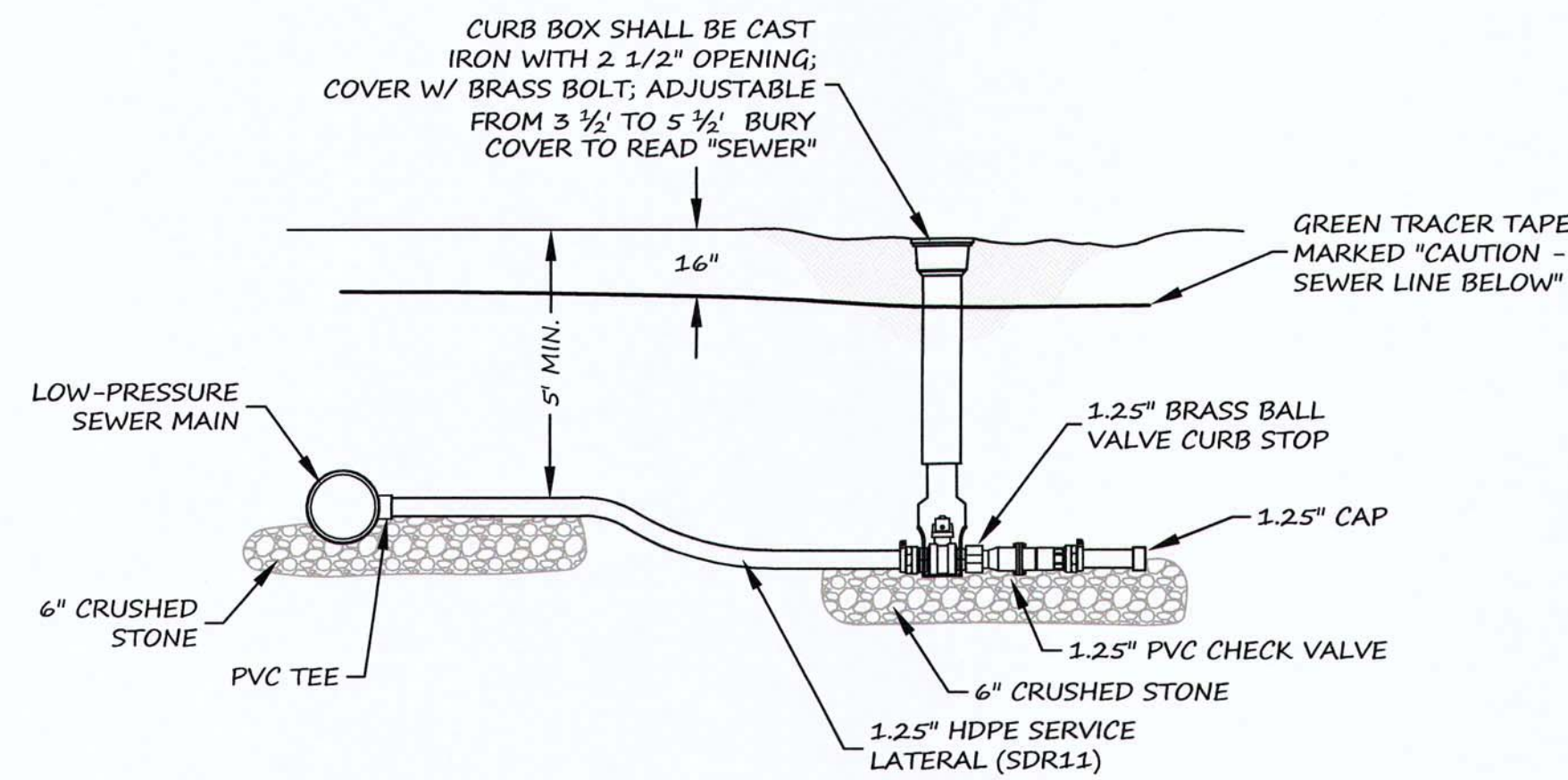
PLAN SCALE: NOT TO SCALE

| REVISION   | DATE | BY |
|------------|------|----|
| 2018-09-27 | DJM  |    |
| 2018-10-12 | DJM  |    |

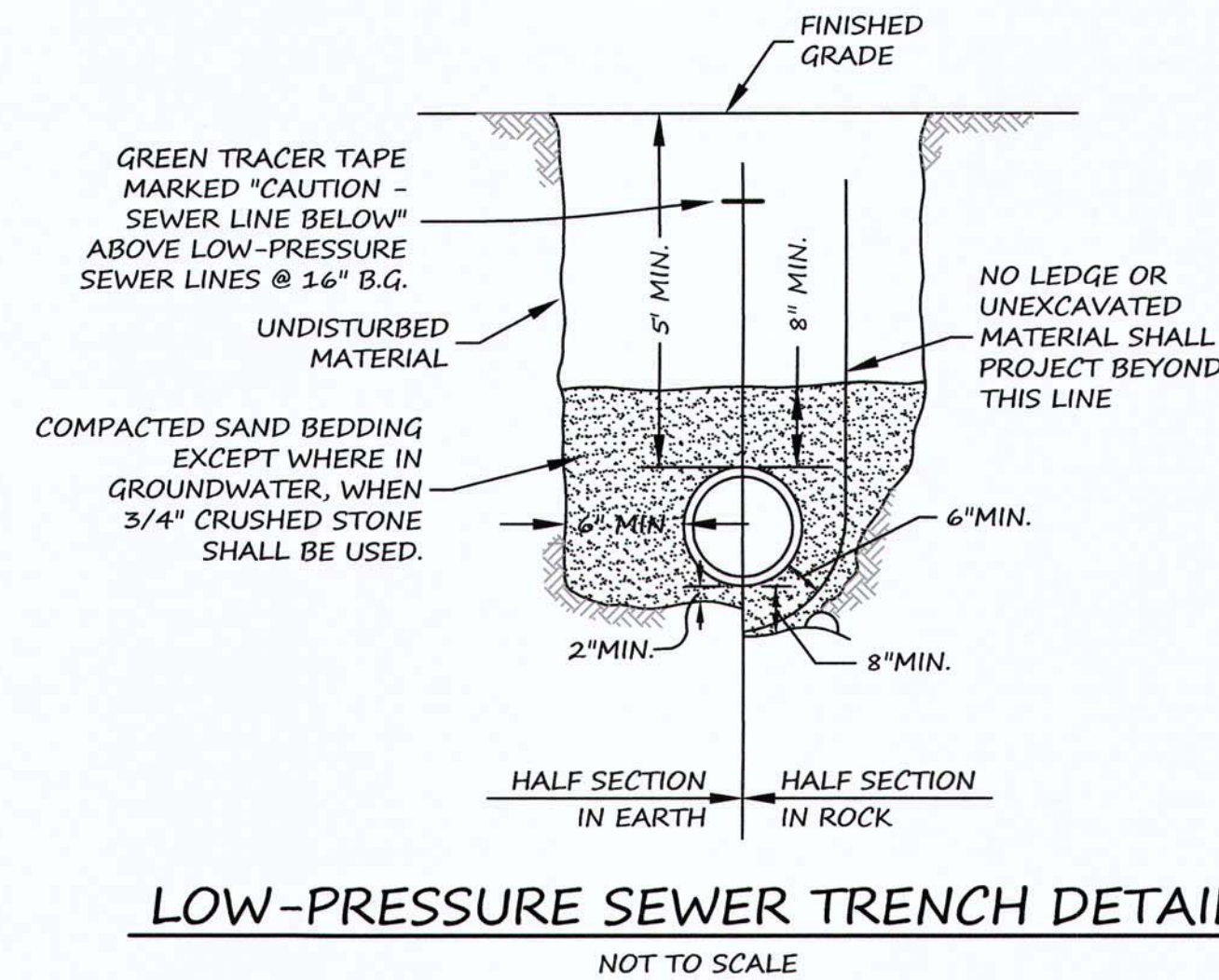
ACORN PLACE  
DETAIL  
PLAN OF LAND  
IN  
MILLIS, MA

**MERRIKIN ENGINEERING, LLP**  
730 MAIN STREET, SUITE 2C  
MILLIS, MA 02054  
ph. 508-376-8883 fax 508-376-8823

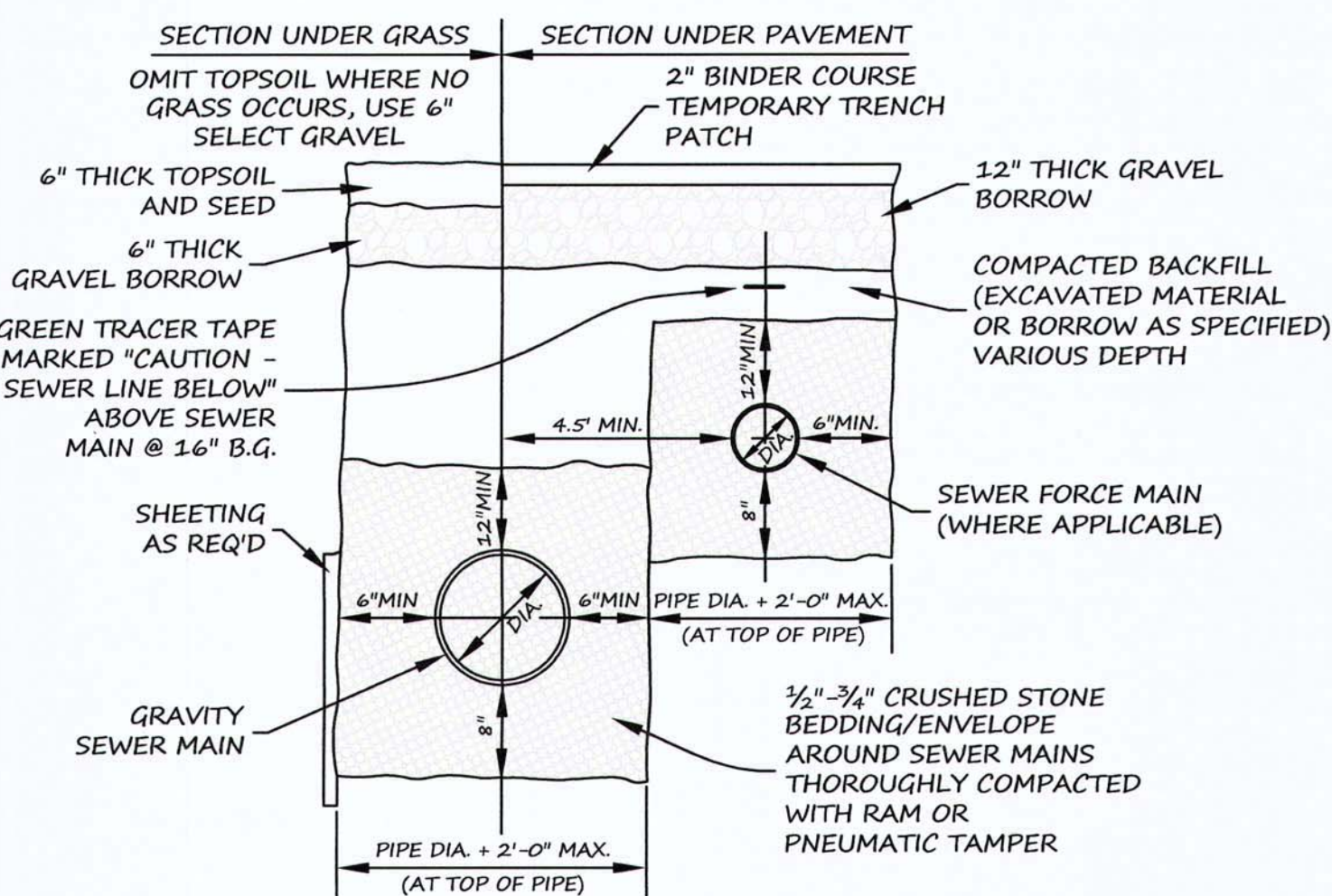




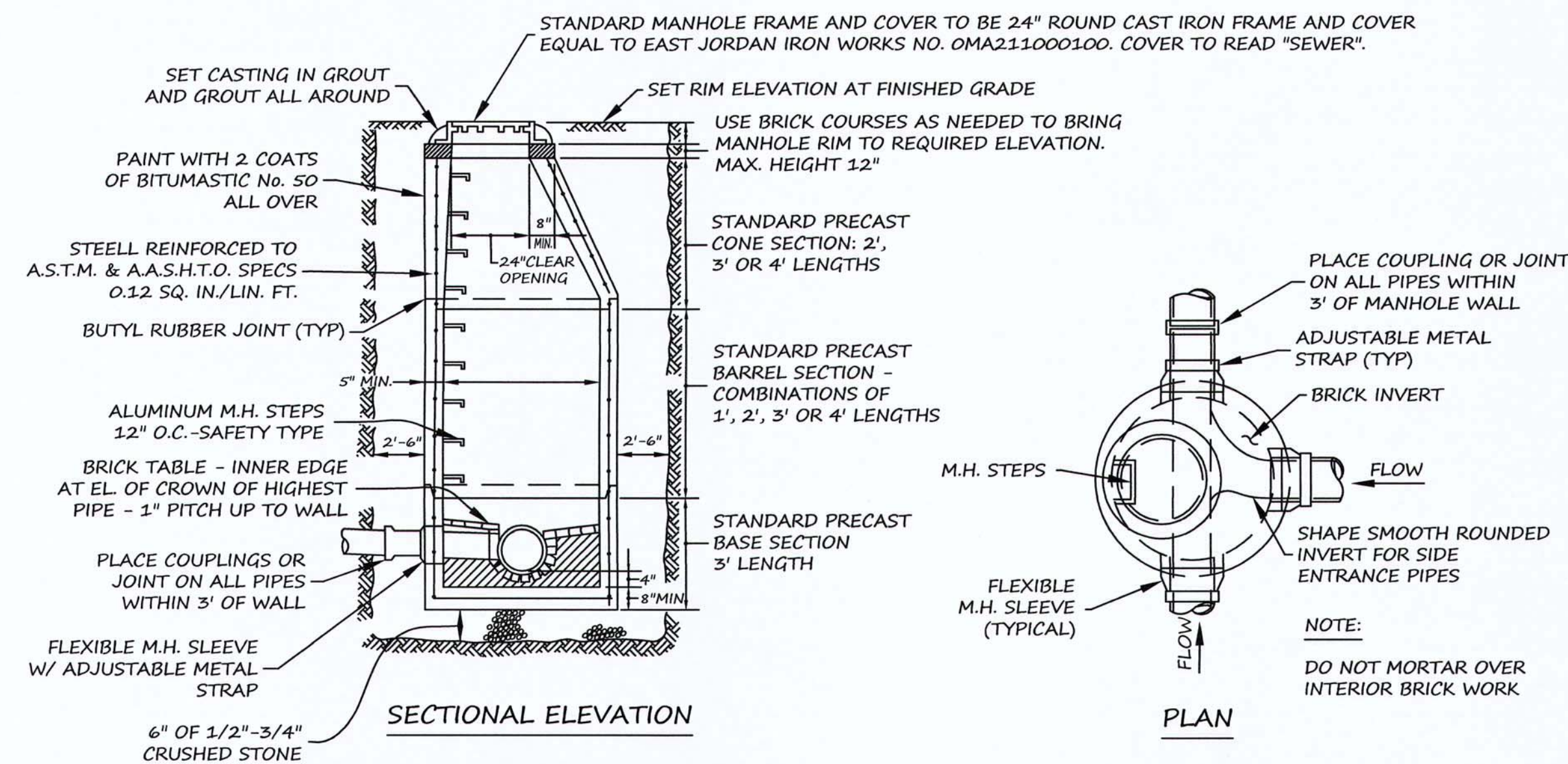
**LOW PRESSURE SEWER SERVICE LATERAL DETAIL**  
NOT TO SCALE



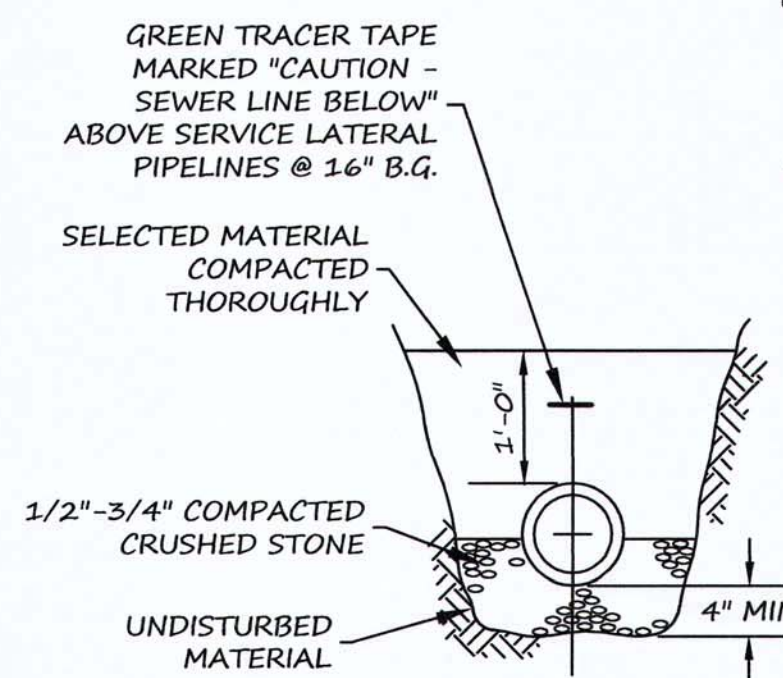
**LOW-PRESSURE SEWER TRENCH DETAIL**  
NOT TO SCALE



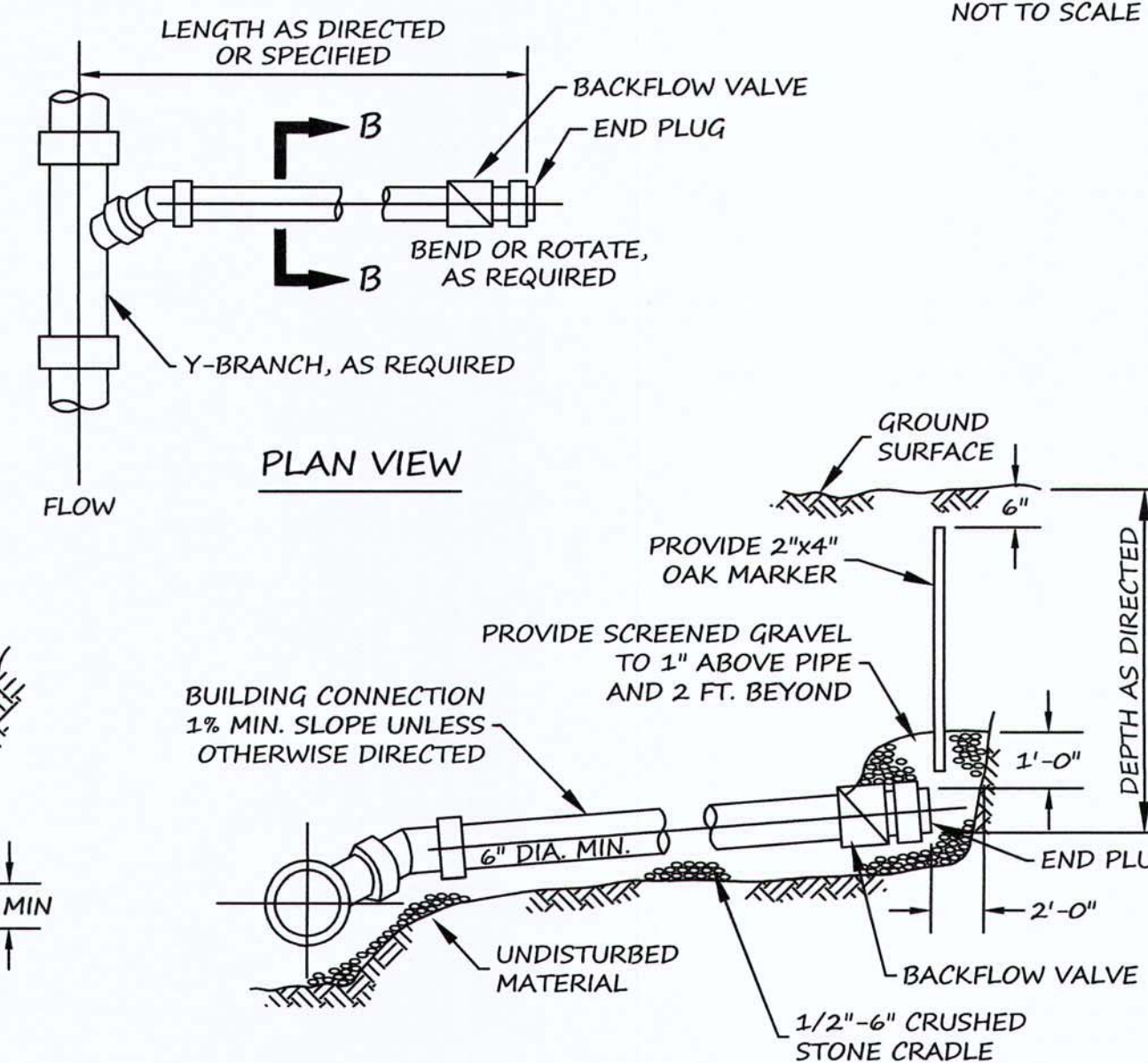
**TYPICAL SEWER TRENCH**  
NOT TO SCALE



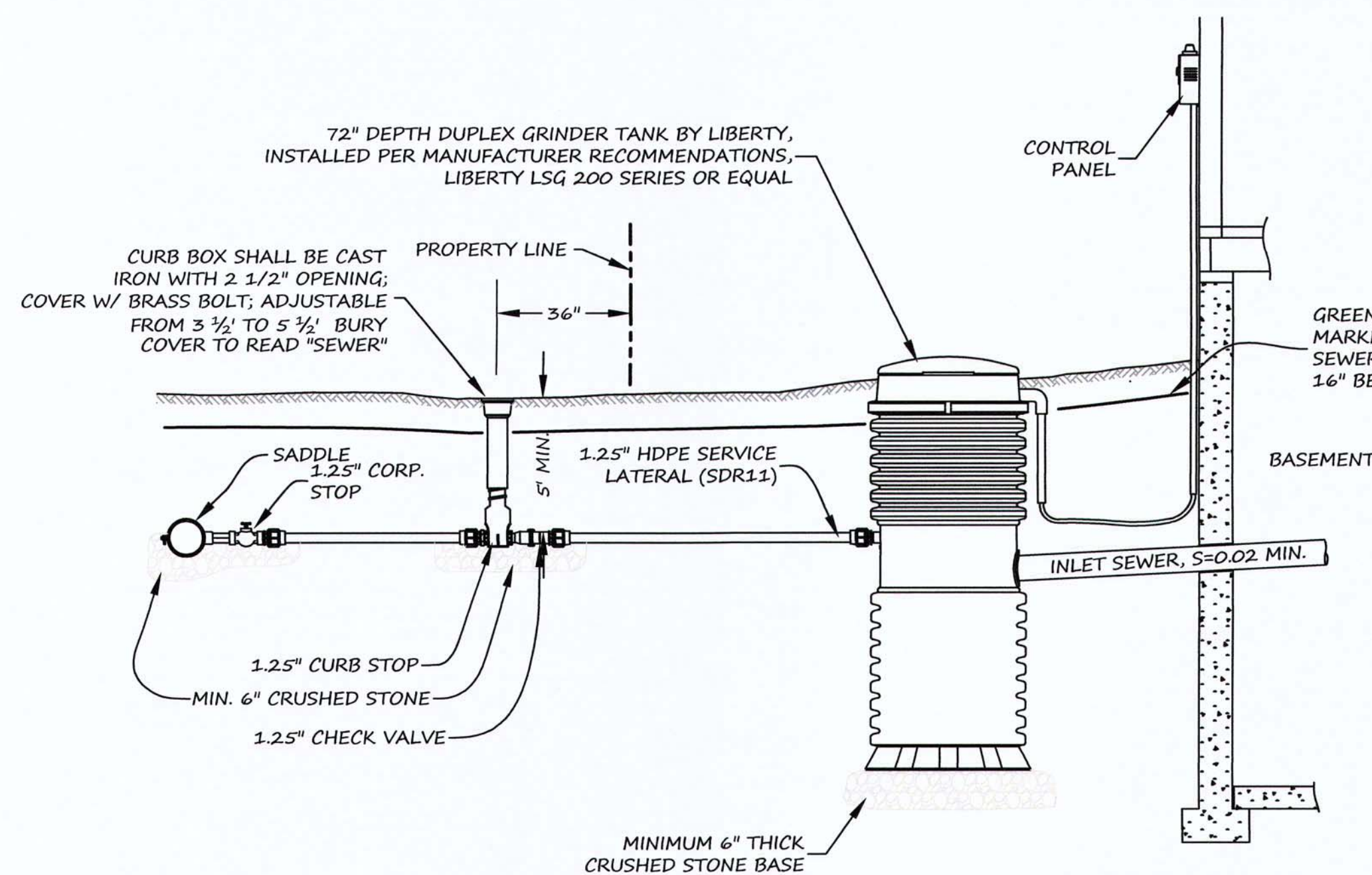
**TYPICAL PRECAST CONCRETE MANHOLE DETAILS**  
NOT TO SCALE



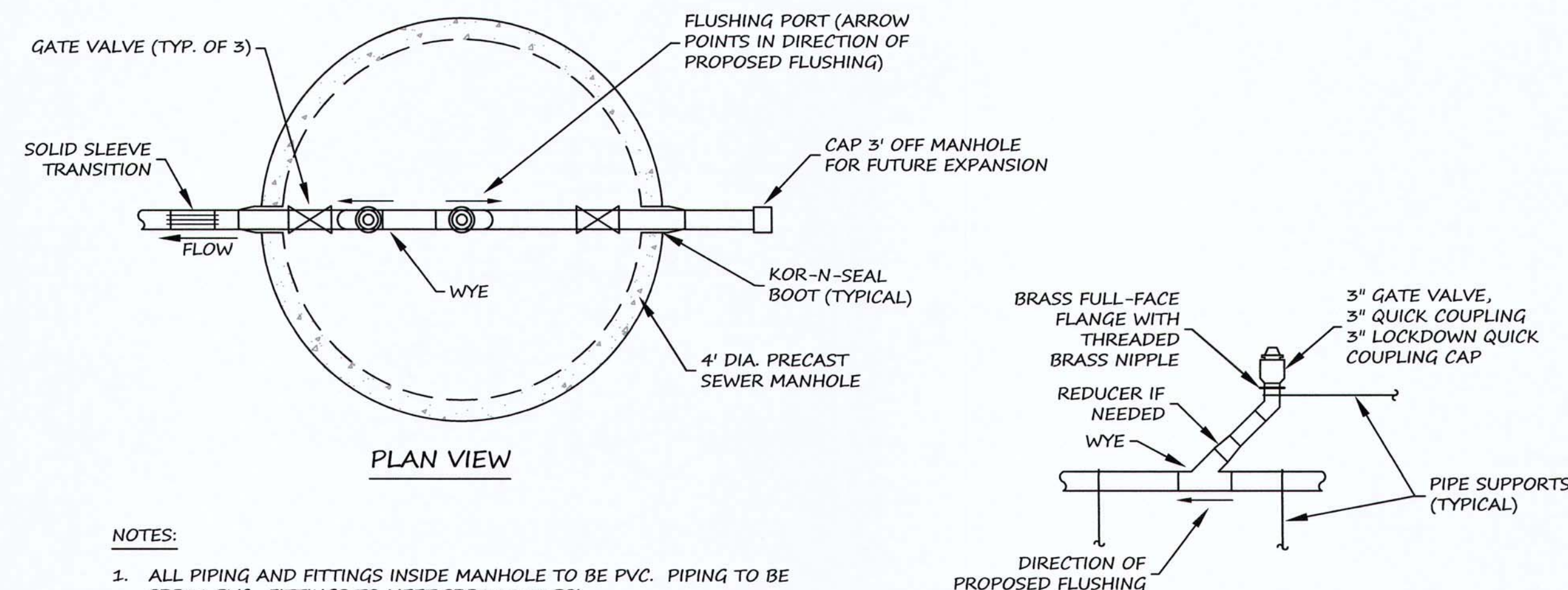
**SECTION B-B**



**TYPICAL BUILDING SEWER SERVICE CONNECTION**  
NOT TO SCALE



**LOW-PRESSURE SEWER PUMP SYSTEM DETAIL**  
NOT TO SCALE



- NOTES:**
1. ALL PIPING AND FITTINGS INSIDE MANHOLE TO BE PVC. PIPING TO BE SDR21 PVC. FITTINGS TO MEET SDR17 250 PSI.
  2. VALVES TO BE BRASS AND RATED FOR 200 PSI.
  3. ALL PIPES, VALVES AND FITTINGS TO BE FULLY SUPPORTED WITH PIPE SUPPORTS, BRACKETS AND/OR HANGERS.

**LOW-PRESSURE SEWER MANHOLE CLEANOUT**  
NOT TO SCALE

OWNER:  
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APPLICANT:  
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PLYMOUTH, MA 02360

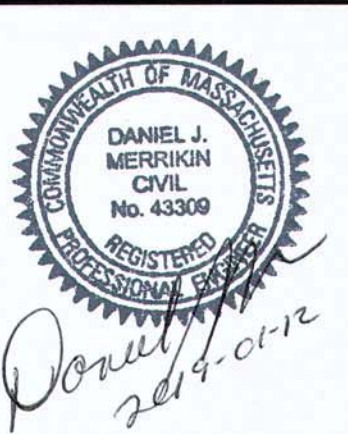
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MILLIS PLANNING BOARD



PLAN SCALE: NOT TO SCALE

| REVISION                    | DATE       | BY     |
|-----------------------------|------------|--------|
| REVISIONS PER TOWN COMMENTS | 2018-09-27 | D.J.M. |
| REVISIONS PER TOWN COMMENTS | 2018-10-12 | D.J.M. |

ACORN PLACE  
DETAIL  
PLAN OF LAND  
IN  
MILLIS, MA

**MERRIKIN  
ENGINEERING, LLP**

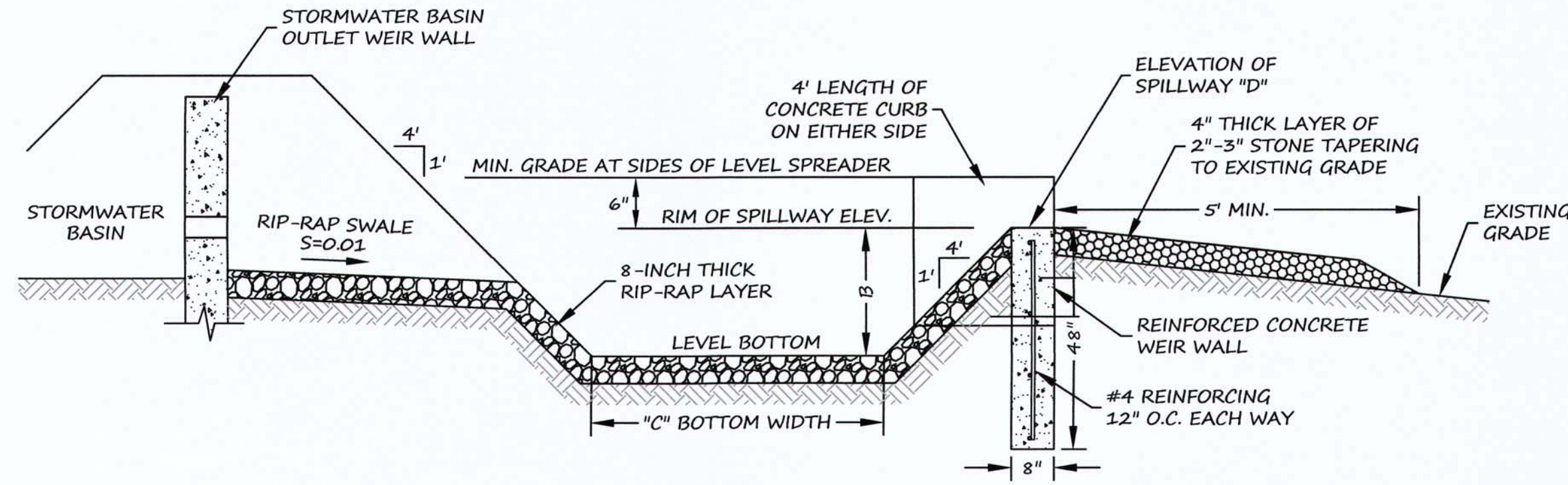
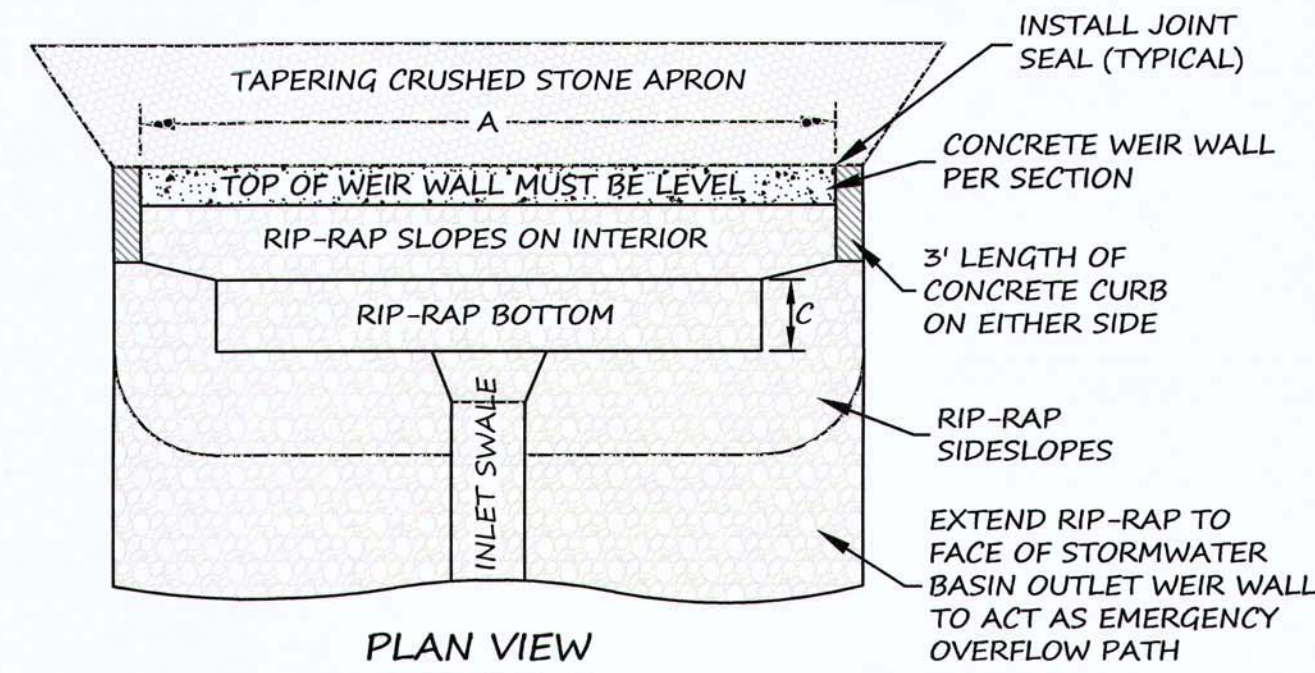
730 MAIN STREET, SUITE 2C  
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ph. 508-376-8883 fax 508-376-8823

D69-02

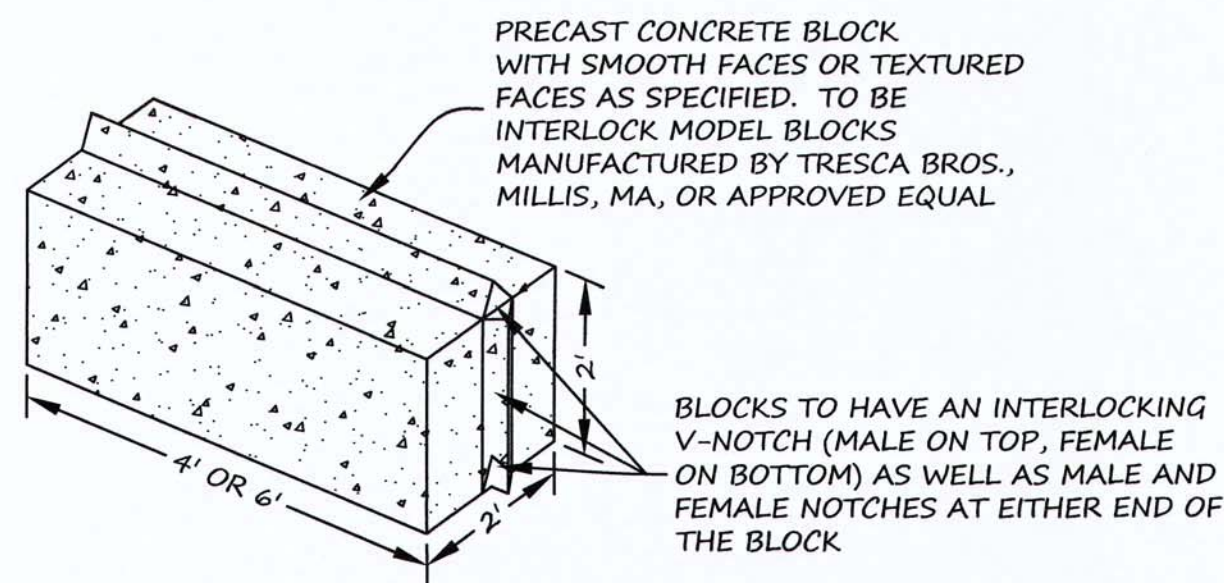
SHEET 14 OF 16



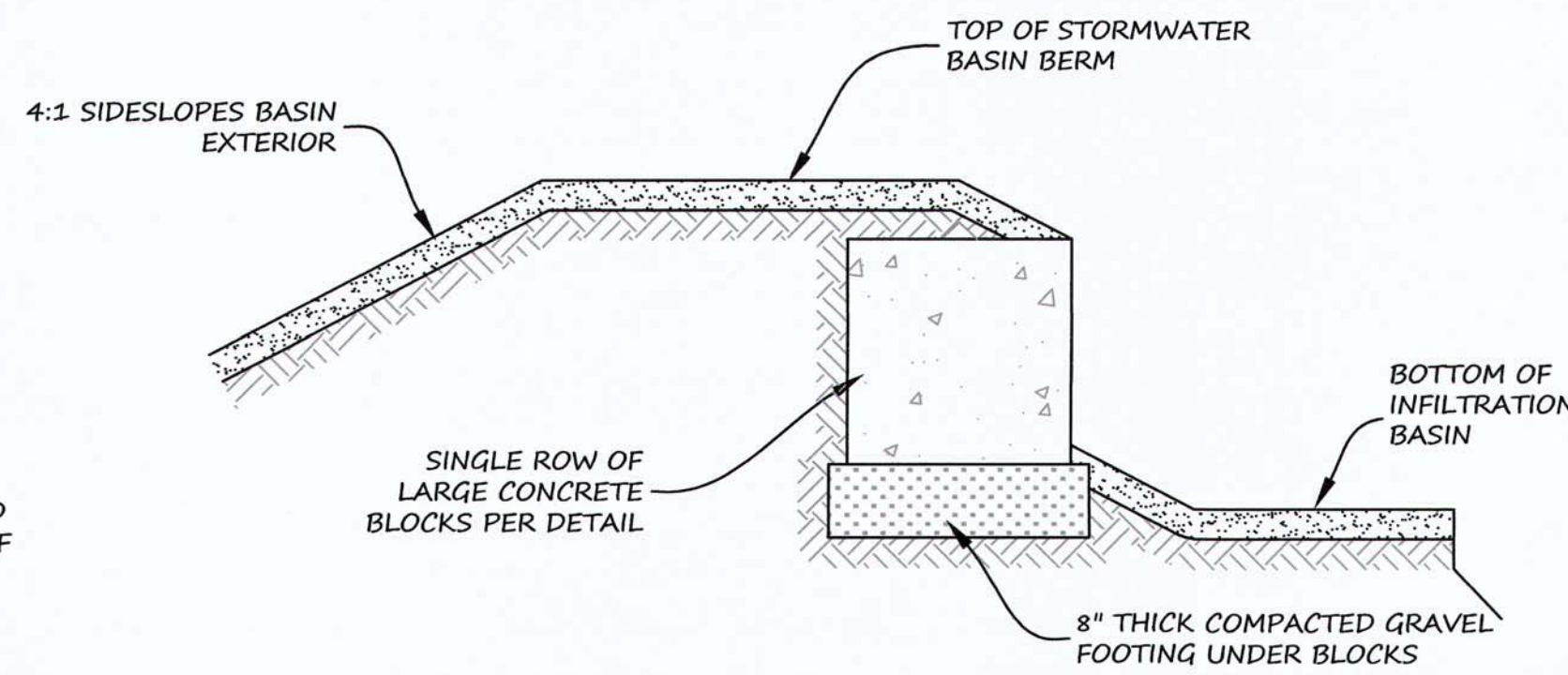
- NOTES:
- WEIR LENGTH (A), DEPTH (B), & BOTTOM WIDTH (C) OF SPILLWAY AND ELEVATION OF THE SPILLWAY LIP SHALL BE AS SPECIFIED ON THE GRADING AND PROFILE SHEETS.
  - WEIR LIP SHALL FOLLOW EXISTING GRADES AS CLOSELY AS POSSIBLE.



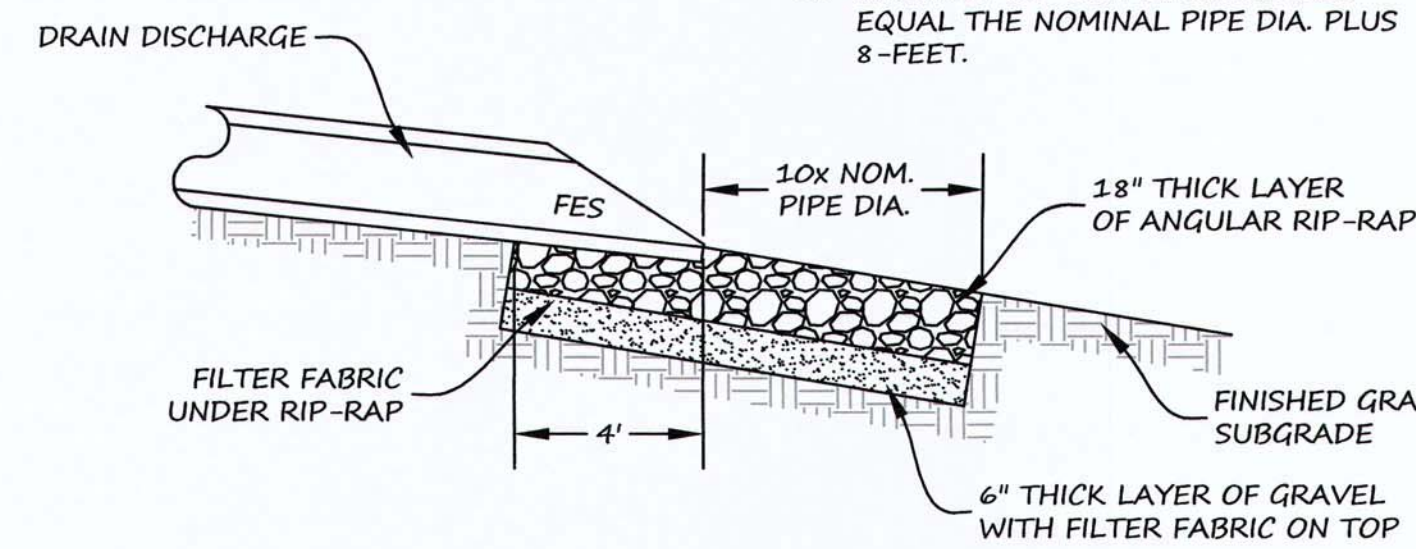
LEVEL SPREADER DETAIL  
NOT TO SCALE



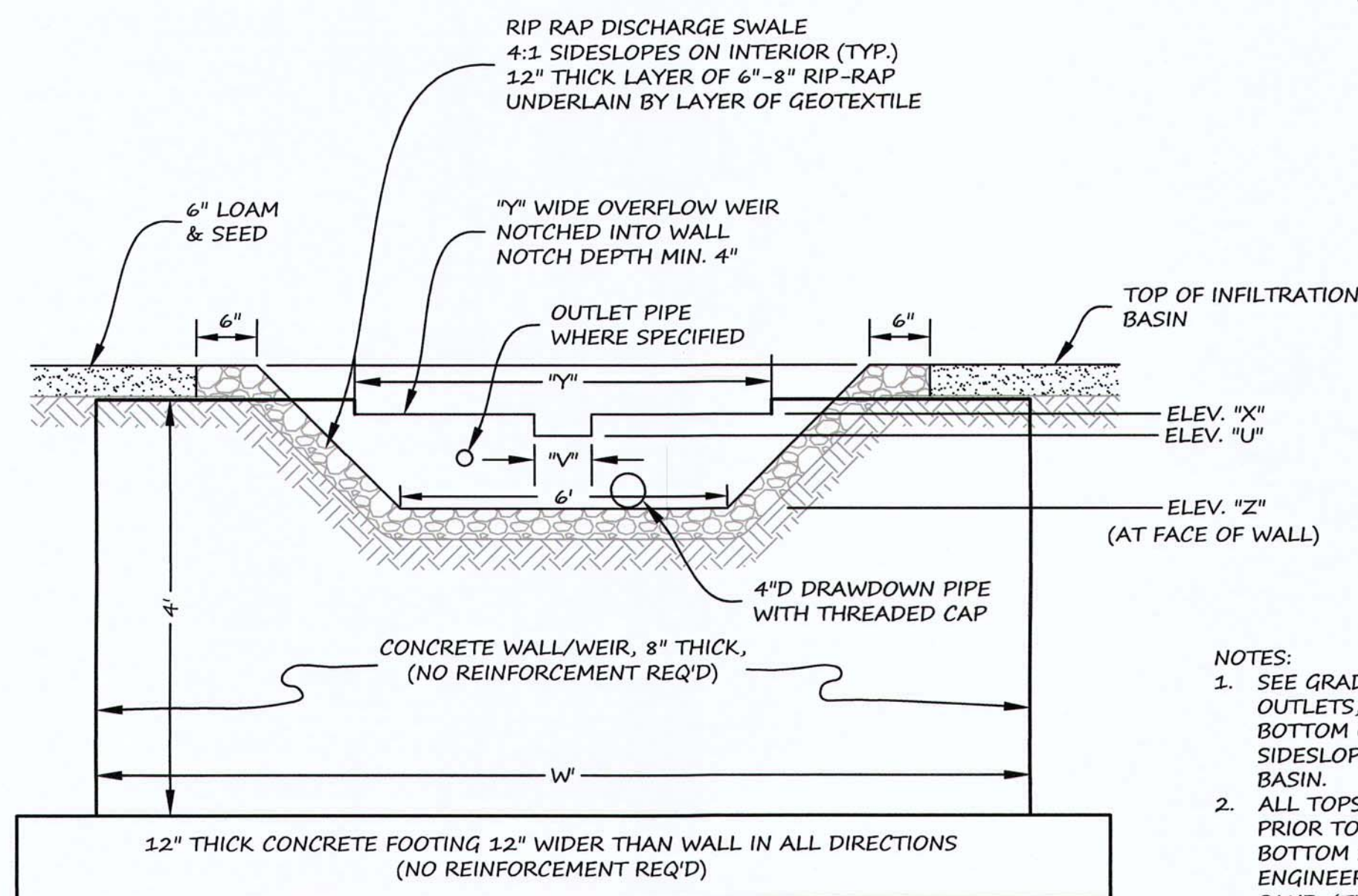
LARGE CONCRETE BLOCK DETAIL  
NOT TO SCALE



INFILTRATION BASIN #1 BERM DETAIL  
NOT TO SCALE



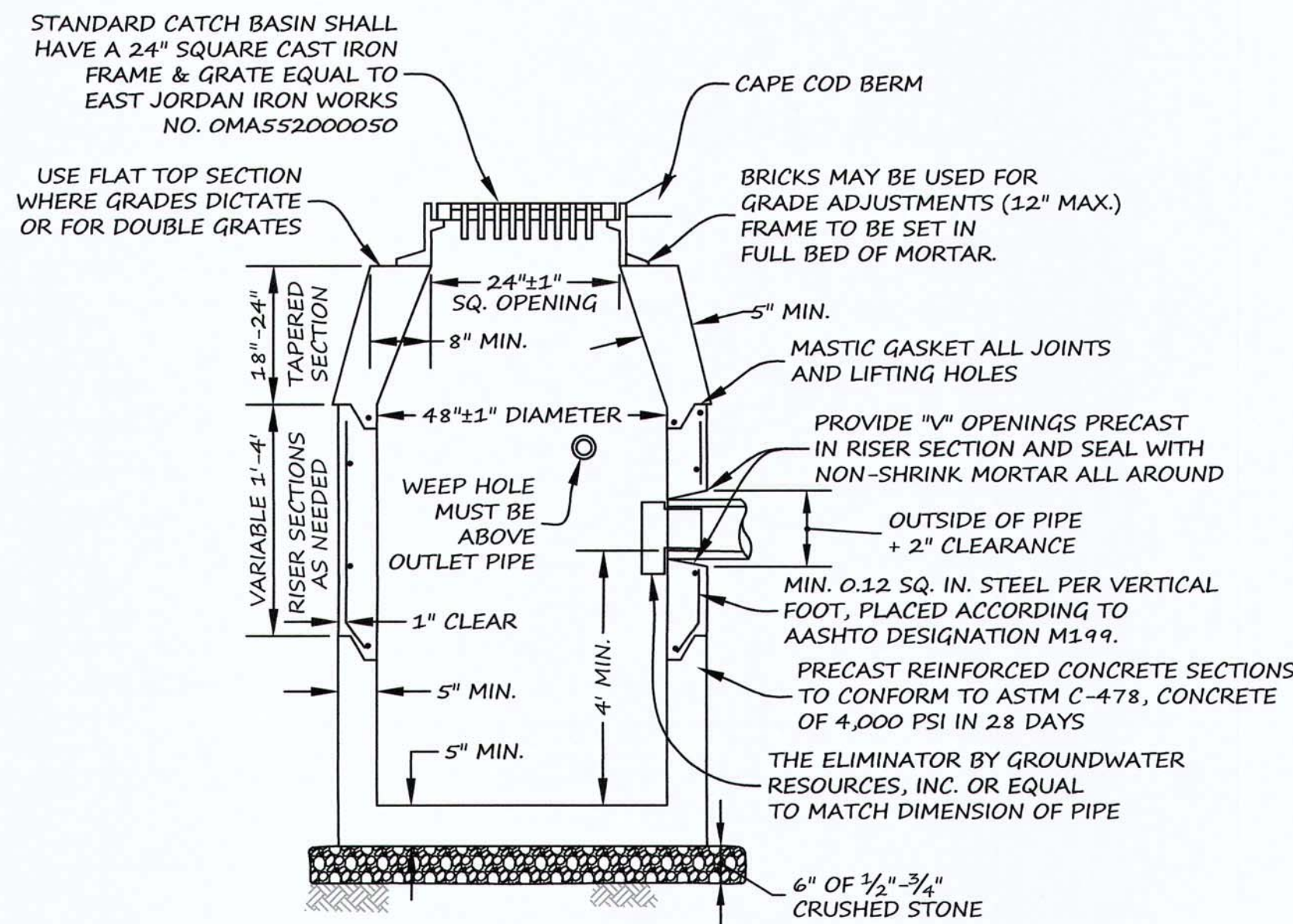
TYPICAL RIP-RAP APRON DETAIL  
NOT TO SCALE



INFILTRATION BASIN #1 & 2 OUTLET WEIR AND RIP-RAP SWALE DETAIL

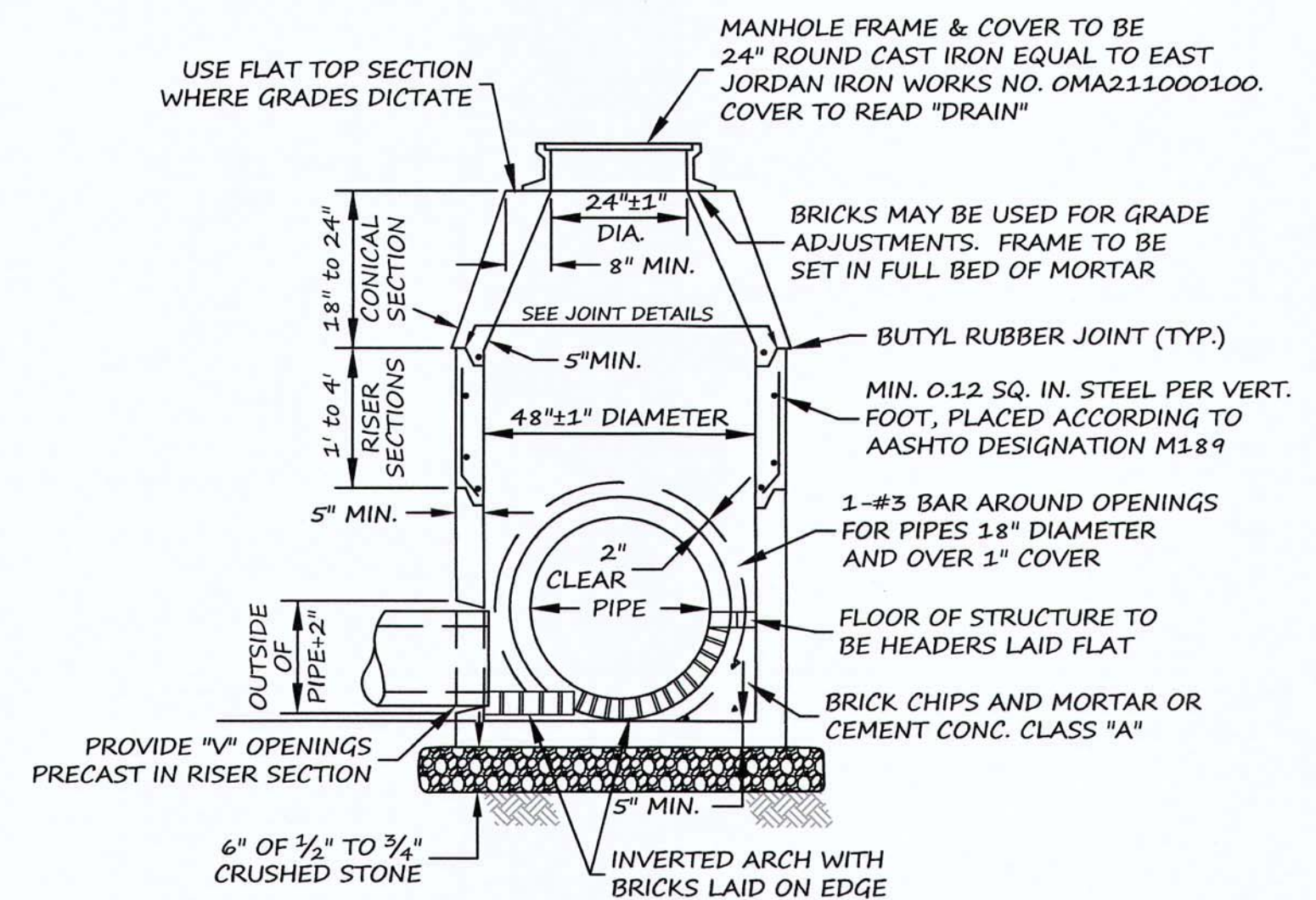
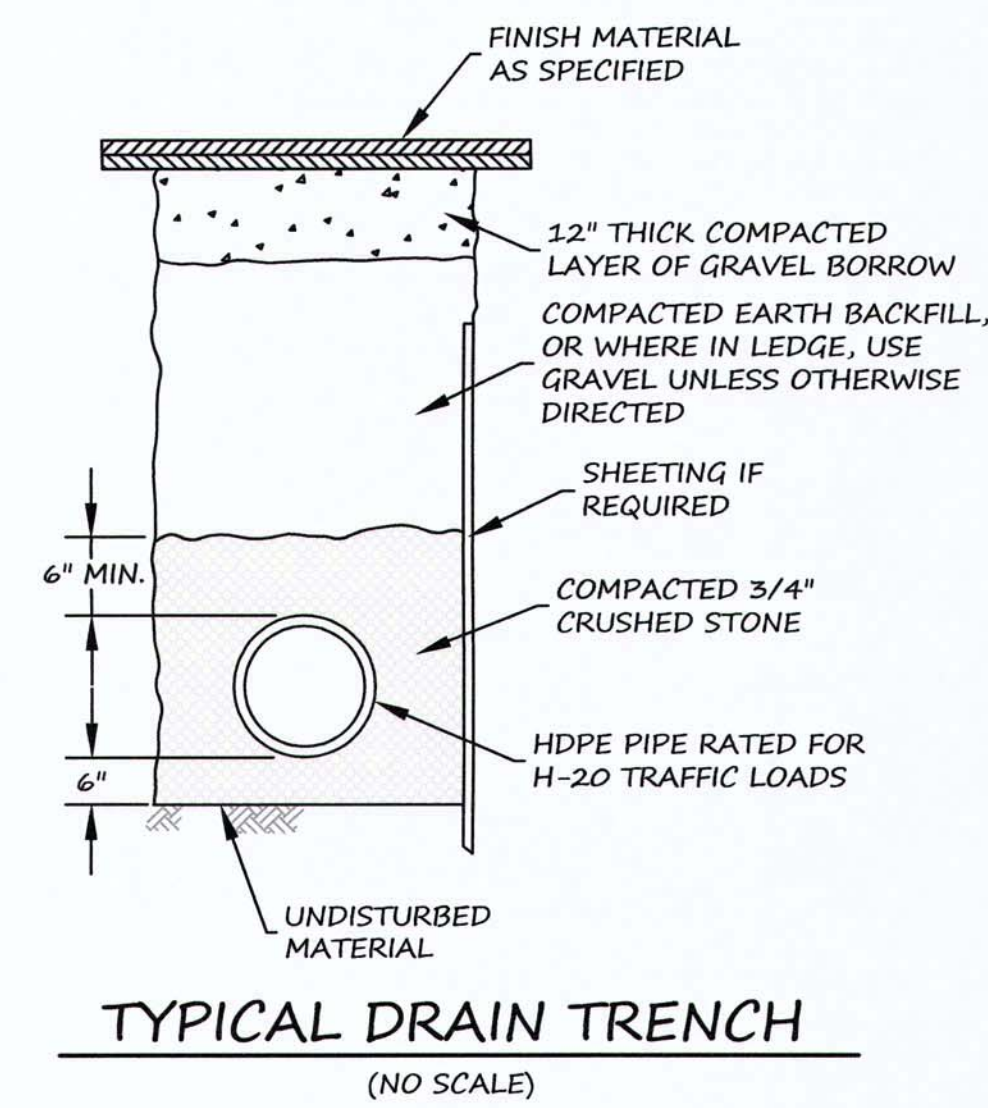
- NOTES:
- SEE GRADING SHEETS AND PROFILE SHEETS FOR SIZE OF INLETS AND OUTLETS, OUTLET STRUCTURE SPECIFICATIONS, ELEVATION OF BOTTOM OF BASIN, ELEVATION OF TOP OF BASIN, SLOPE OF SIDESLOPES, AND OTHER DIMENSIONAL REQUIREMENTS FOR EACH BASIN.
  - ALL TOPSOIL BELOW THE BOTTOM OF THE BASIN SHALL BE REMOVED PRIOR TO BASIN CONSTRUCTION. FILL MATERIALS UNDER THE BASIN BOTTOM SHALL BE CLEAN SAND OR LOAMY SAND MEETING ENGINEER'S APPROVAL. FILL FOR BERMS MAY BE SAND OR LOAMY SAND. (TITLE V CLASSIFICATIONS).
  - BERM AREAS SHALL BE REMOVED OF ALL TOP AND OTHER UNSUITABLE SOILS. BERM CORE SHALL CONSIST OF ORDINARY BORROW INSTALLED IN 12-INCH LIFTS TO A MINIMUM 93% PROCTOR DENSITY.

TYPICAL INFILTRATION BASIN DETAILS  
NOT TO SCALE



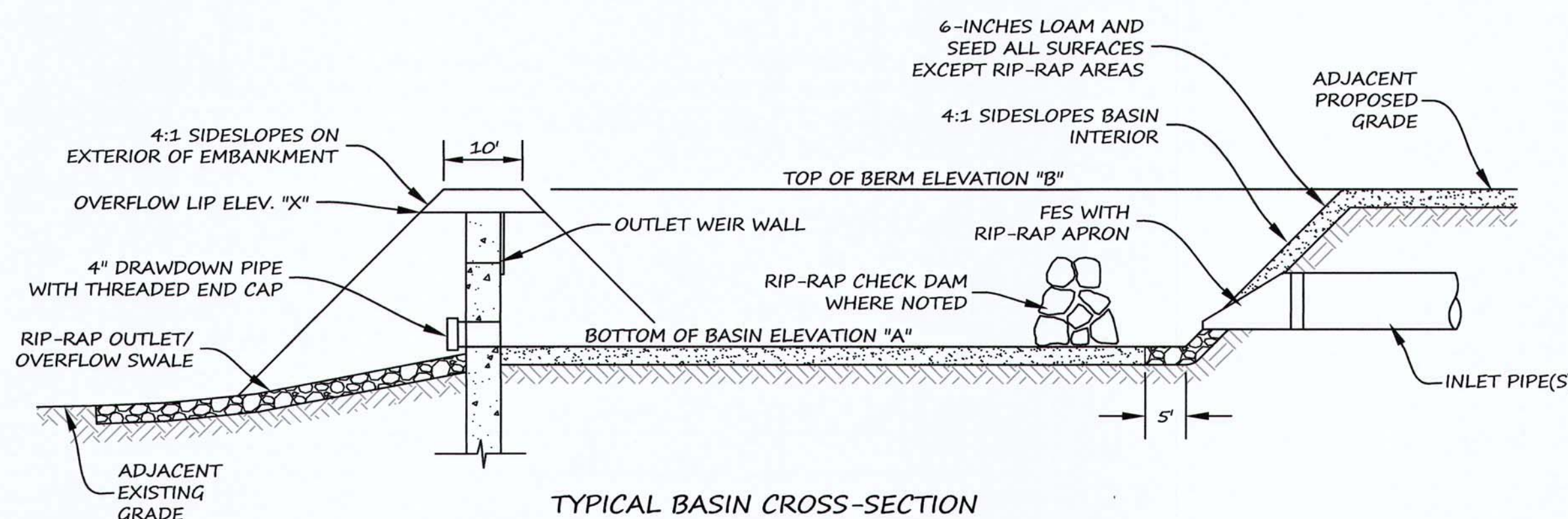
PRECAST CONCRETE CATCH BASIN  
NOT TO SCALE

- NOTES:
- RIP-RAP TO BE PLACED ON EMBANKMENTS TO A POINT 1' ABOVE TOP OF FES (WHERE APPLICABLE).
  - RIP-RAP D50 SHALL BE 5-INCH DIAMETER.
  - WIDTH OF RIP-RAP APRON SHALL EQUAL THE NOMINAL PIPE DIA. PLUS 8- FEET.



- NOTES:
- MANHOLE DIAMETER SHALL BE INCREASED IF NUMBER, SIZE, AND CONFIGURATION OF INLET/OUTLET PIPING NECESSITATES A LARGER MANHOLE DIAMETER.
  - SUBSTITUTE FRAME AND COVERS SHALL BE MADE IN USA AND SHALL BE APPROVED BY THE ENGINEERING DEPARTMENT OR PLANNING BOARD PRIOR TO CONSTRUCTION.

PRECAST CONCRETE MANHOLE  
NOT TO SCALE



SCHEDULE OF DIMENSIONS AND ELEVATIONS

|                                                  | BASIN #1    | BASIN #2    |
|--------------------------------------------------|-------------|-------------|
| BOTTOM OF BASIN ELEVATION "A"                    | 210.5       | 216.0       |
| SEASONAL HIGH GROUNDWATER                        | 208.5-204.5 | 214.0-212.0 |
| TOP OF BERM ELEVATION "B"                        | 213.6       | 218.5       |
| WEIR NOTCH ELEV. "U"                             | N/A         | 216.3       |
| WEIR NOTCH WIDTH "V"                             | N/A         | 1.4'        |
| OUTLET WEIR WALL LENGTH "W"                      | 22'         | 22'         |
| OVERFLOW WEIR INVERT "X"                         | 212.32      | 217.2       |
| OVERFLOW WEIR WIDTH "Y"                          | 15.0'       | 2.0'        |
| OUTLET PIPE DIAMETER                             | 1"          | NONE        |
| OUTLET PIPE ELEVATION                            | 211.0       | N/A         |
| RIP RAP SWALE OUTLET ELEV. "Z" (AT FACE OF WALL) | 210.0       | 216.0       |

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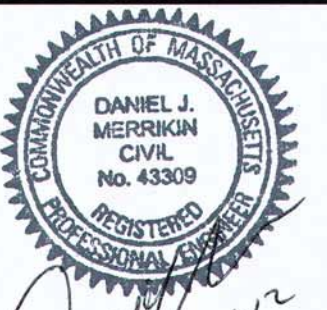
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MILLIS PLANNING BOARD



PLAN SCALE: NOT TO SCALE

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| 2018-09-27 | D.J.M. |
| 2018-10-12 | D.J.M. |
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ACORN PLACE  
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D69-02

SHEET 15 OF 16



