REGISTERED PROFESSIONAL LAND SURVEYOR

02/05/2020

GENERAL NOTES:

. ZONING DISTRICT: RESIDENTIAL (R-S)

LAND COURT CERTIFICATES: 152669 AND 15267

3. PLAN REFERENCES: P-1.) LAND COURT PLAN 15728 AND 15728

4. COMMUNITY PANEL NUMBER 25021C0161 E THE FLOOD INSURANCE RATE MAP DEFINES THIS AREA AS ZONE X, AREAS OUTSIDE THE 0.2% CHANCE ANNUAL FLOOD.

5.) THE PROPERTY LINE INFORMATION SHOWN IS BASED ON CURRENT AVAILABLE RECORD INFORMATION CONSISTING OF PLANS AND DEEDS AND AN ACTUAL ON THE GROUND FIELD SURVEY PERFORMED BY THIS FIRM ON AND BETWEEN JUNE 7, 2019 AND JULY 7, 2019.

WAIVER REQUESTS:

TABLE 1 GEOMETRIC DESIGN STANDARDS: FROM THE PAVEMENT WIDTH REQUIREMENT FOR A TYPE SECONDARY STREET FROM 26' WIDE TO 22'

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TO INSTALL LIGHTING ALONG ALL STREETS TO AT THE INTERSECTION AND DRIVEWAY LIGHTS ON

5.11 FIRE ALARM & POLICE CALL BOXES: FROM THE REQUIREMENT TO PROVIDE FIRE ALARM AND/OR POLICE CALL BOXES.

CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE MILLIS PLANNING AND ZONING BOARD HAS BEEN RECEIVED AND

115/2020

"Rivendell Woods"

Land Court Plan of Land Being a Definitive Subdivision of Lot 65

on Land Court Plan No. 15728 O

o Causeway Street, Millis, MA 02054

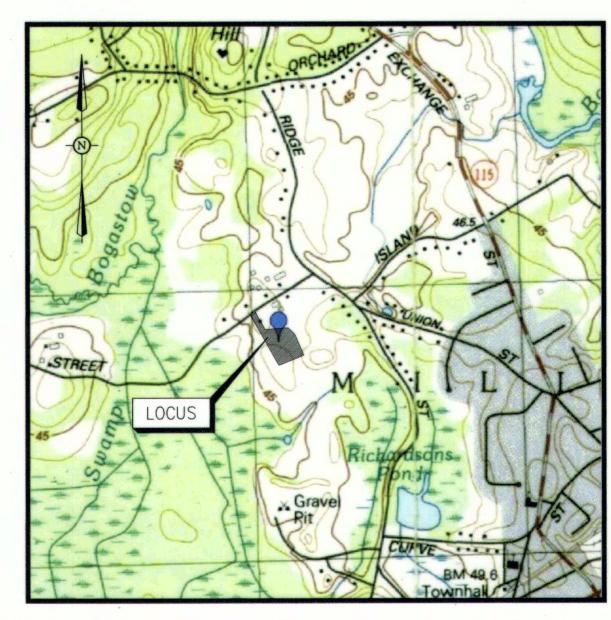
PREPARED FOR:

Stephen Silver

227 Causeway Street Millis, MA 02054

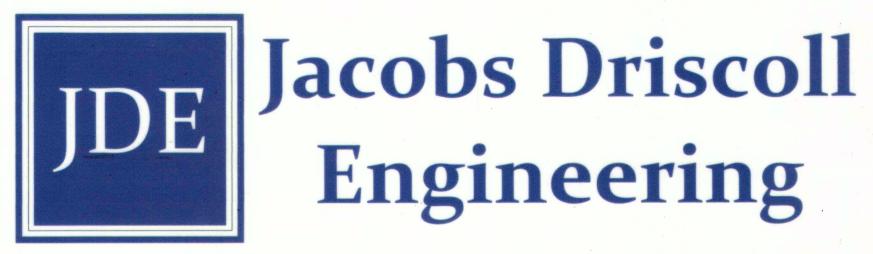
Sheet Index

No.	Drawing Title	Date	Revised
1	Cover Sheet	08-27-2019	01-09-2020
2	General Notes & Legend	08-27-2019	01-09-2020
3	Existing Conditions Plan	08-27-2019	01-09-2020
4	Lot Layout Plan	08-27-2019	01-09-2020
5	Grading, Drainage & Utility Plan	08-27-2019	01-09-2020
6	Plan & Profile	08-27-2019	01-09-2020
7	Construction Details	08-27-2019	01-09-2020
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9	Construction Details	08-27-2019	01-09-2020
10	Construction Details	08-27-2019	01-09-2020
11	Construction Details	08-27-2019	01-09-2020

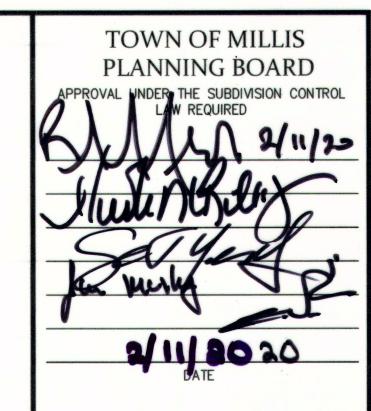


LOCUS MAP Not to Scale

PREPARED BY:



Civil Engineering and Land Surveying Professionals 50 Oliver Street, Suite 101 North Easton, MA 02356



	REVISIONS					
No. DATE DESCRIPTION						
1	10-28-2019	PER REVIEW COMMENTS				
2	11-11-2019	PER REVIEW COMMENTS				
3	12-6-2019	PER REVIEW COMMENTS				
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"RIVENDELL WOODS" Land Court Plan of Land Being A Definitive Subdivision of Lot 65 on Land Court Plan No. 15728^O

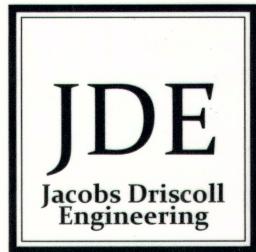
COVER SHEET

0 CAUSEWAY STREET **MILLIS** (NORFOLK COUNTY) MASSACHUSETTS

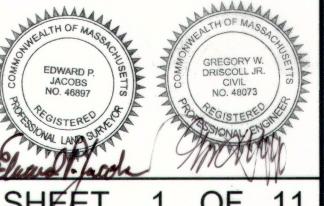
AUGUST 27, 2019

PREPARED FOR:

STEPHEN SILVER 227 CAUSEWAY STREET **MILLIS MASSACHUSETTS** 02054



50 Oliver Street, Suite 101 North Easton, Massachusetts 02356 Phone: 508-928-4400 www.JacobsDriscoll.com



JUTE MAT IN SWALE

GENERAL CONSTRUCTION NOTES

PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSANDED.

1. THE INFORMATION SHOWN ON THIS PLAN IS BASED ON CURRENT AVAILABLE INFORMATION CONSISTING OF DEEDS AND PLANS OF RECORD AND IS ALSO THE RESULT OF AN ACTUAL ON THE GROUND FIELD SURVEY PERFORMED BY THIS FIRM ON AND BETWEEN 6-7-19 AND 7-2-19.

2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE

3. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.

4. THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET". (R&R) 5. JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING

6. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY FROM FIELD OBSERVATIONS AND DIGSAFE MARKINGS AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE THE START OF ANY WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE THE UTILITIES EXACTLY. THE CONTRACTOR SHALL PRESERVE ALL UNDERGROUND UTILITIES. THE CONTRACTOR MUST CALL "DIG SAFE" (AT 1-888-DIG-SAFE) AT LEAST 72 HOURS BEFORE THE START OF CONSTRUCTION.

7. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER, SEPTIC AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY FACILITIES DAMAGED BY CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S

8. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.

9. JACOBS DRISCOLL ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.

10. THE CONTRACTOR SHALL CONFIRM LOCATION AND DEPTH OF EXISTING UTILITY LINES BEFORE COMMENCING UTILITY INSTALLATION.

11. ALL WORK SHALL CONFORM TO ALL OF THE PERMITS ISSUED FOR THE PROJECT (ORDER OF CONDITIONS DECISION FROM CONSERVATION FROM PLANNING BOARD ETC. AS APPLICABLE) AND APPLICABLE REGULATIONS FOR THIS SITE. (IF APPLICABLE)

12. ALL CURBING SHALL BE 12" CAPE COD BERM (CCB), SEE DETAIL #411.

13. MAINTAIN A STOCKPILE OF 100 FEET OF STRAW WATTLES, 100 FEET OF SILT FENCE AND 3 CUBIC YARDS OF RIP-RAP ON SITE AT ALL TIMES UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.

14. STUMPS FROM THE CLEARING OPERATION SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.

15. DISTURBED AREAS SHALL BE PROTECTED AT ALL TIMES TO CONTROL SEDIMENT TRANSPORT BEYOND THE LIMIT OF WORK:

16. DISTURBED AREAS SHALL BE TREATED WITH WATER DURING EXCAVATION, OR APPROVED ALTERNATIVE, TO CONTROL THE DUST.

17. PROJECT BENCHMARKS: BM-A: BONNET BOLT ON HYDRANT STREET SIDE ELEV= 166.92'

18. VERTICAL DATUM: NAVD88

19. NOISE FROM CONSTRUCTION ACTIVITIES SHALL BE KEPT TO A MINIMUM WHENEVER POSSIBLE 20. HOURS OF CONSTRUCTION ACTIVITY ONSITE SHALL BE LIMITED TO THOSE SET FORTH BY THE PLANNING BOARD IN THEIR APPROVAL DECISION.

BM-B: TOP OF CB/DH FND ELEV= 165.40'

TIME IMPLICATION UTILITY NOTES:

1. 12" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN ALL UTILITY CROSSINGS.

2. UNLESS SEWER LINES ARE A MINIMUM OF 18" BELOW THE WATER LINE, A MINIMUM 10' HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER AND SEWER LINES. WHERE WATER LINES CROSS SEWER LINES. THE SEWER LINE SHALL BE LOCATED WITH A MINIMUM VERTICAL CLEARANCE OF 18" BELOW THE WATER LINE. THE SEWER LINE JOINTS SHALL BE LOCATED EQUIDISTANT AND AS FAR AWAY FROM THE WATER LINE AS POSSIBLE. WHEN IT IS IMPOSSIBLE TO ACHIEVE HORIZONTAL AND/OR VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER LINE AND SEWER LINE AT THE CROSSING LOCATION SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT-LINED DUCTILE IRON PIPE FOR ONE FULL 20' PIPE LENGTH OR ANOTHER EQUIVALENT THAT IS WATERTIGHT AND STRUCTURALLY SOUND. THE JOINTS FOR BOTH PIPES SHALL BE LOCATED AS FAR AWAY FROM THE CROSSING AS POSSIBLE. BOTH PIPES SHOULD BE PRESSURE TESTED TO 150 PSI TO ENSURE THAT THEY ARE

3. TYPICAL COVER OVER WATER LINE SHALL BE 5'. IF LESS THAN 4' OF COVER IS PROVIDED, INSULATE WATER LINE AGAINST FREEZING.

4. GAS, ELECTRIC, DATA/COM IS SHOWN SCHEMATICALLY HEREON. THESE UTILITIES SHALL BE INSTALLED WITH A MINIMUM COVER OF 3 FEET UNLESS OTHERWISE NOTED OR OTHERWISE DIRECTED BY THE CONTROLLING UTILITY COMPANY. CONTRACTOR SHALL COORDINATE FINAL LAYOUT WITH APPLICABLE UTILITY COMPANY.

5. ALL UTILITY CUTS THROUGH EXISTING CONCRETE OR BITUMINOUS CONCRETE PAVED SURFACES SHALL BE SAW CUT. BACK FILLING OF TRENCH SHALL INCLUDE 12" IN DEPTH FLOWABLE FILL TO BE THE BASE COURSE OF THE SURFACE TREATMENT. THE SURFACE TREATMENT SHALL THEN BE REPLACED IN KIND. IF THE BITUMINOUS CONCRETE SURFACE IS WITHIN THE ROADWAY THE BITUMINOUS CONCRETE TOP COURSE SHALL BE FINISHED WITH INFRARED TREATMENT TO BLEND EXISTING & NEWLY PAVED

6. ALL DRAINAGE PIPES WILL BE CLASS III REINFORCED CONCRETE (RCP) UNLESS OTHERWISE SPECIFIED.

7. BACKFILLING OF UTILITY TRENCHES SHALL BE IN 12-INCH LIFTS COMPACTED TO 95% DENSITY PER THE ASTM D-1557 MODIFIED PROCTOR TEST.

CONSTRUCTION SEQUENCE

1. INSTALL EROSION CONTROL BARRIER (STRAW WATTLES OR APPROVED EQUAL) TO ESTABLISH THE LIMIT OF WORK AS SHOWN ON PLAN.

2. DISCHARGES FROM DEWATERING OF EXCAVATIONS SHALL NOT BE DIVERTED DIRECTLY INTO ANY WETLANDS, EXISTING STORM DRAINS, OR TO OFF SITE AREAS WITHOUT PRETREATMENT VIA SETTLING BASINS. PROVIDE TEMPORARY CONTAINMENT AREAS OF HAY BALES AND WASHED CRUSH STONE, TO CONTAIN AND SETTLE SILT FROM DEWATERING OPERATIONS. STANDARD CONSTRUCTION PRACTICES SHALL BE FOLLOWED.

3. INSTALL HAY BALE CHECK DAMS ALONG CENTER OF SWALES AT 100' O.C., AS NECESSARY,

4. CLEAR AND GRUB SITE WITHIN THE LIMIT OF WORK.

5. TEMPORARY SEDIMENT BASINS TO BE LOCATED OUTSIDE OF THE AREA OF THE SWM BASIN. NO TEMPORARY SEDIMENTATION DEVICES SHALL BE LOCATED WITHIN THE AREA OF THE PROPOSED PERMANENT SWM BASIN, INSTALL LOW FLOW PERFORATED PIPE WITH FILTER FABRIC AND STONE.

ESTABLISH ROUGH SUB GRADES FOR ROADWAYS, DRIVEWAYS AND BUILDING PLATFORMS.

7. PERFORM STREET AND SITE CONSTRUCTION

8. INSPECT AND MAINTAIN EROSION CONTROL MEASURES AFTER RAINFALL EVENTS AND A MINIMUM OF ONCE PER WEEK.

9. REMOVE SEDIMENT BUILDUP AT EROSION CONTROL DEVICES AS NEEDED. REDISTRIBUTE MATERIAL OVER SITE IN CONFORMANCE WITH EARTHWORK SPECIFICATIONS.

10. ALL OUTFALLS SHALL BE IMMEDIATELY STABILIZED WITH STONE PROTECTION AS REQUIRED.

11. ALL CUT AND FILL SLOPES SHALL BE TEMPORARILY STABILIZED WITH TOP SOIL, SEED AND MULCH OR CURLEX AS REQUIRED IF CONSTRUCTION ACTIVITY CEASES ON SAID SLOPES FOR A PERIOD OF SEVEN DAYS OR GREATER. ALL SLOPES SHALL BE PERMANENTLY STABILIZED AS REQUIRED IMMEDIATELY UPON COMPLETION OF FINAL GRADING.

12. COMPLETE FINISH GRADING AND STABILIZATION OF SITE. PLACE FINAL PAVING COURSE.

13. REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES AFTER COMPLETION OF CONSTRUCTION. REMOVE AND REGRADE TEMPORARY BERMS, SWALES, CHECK DAMS, ETC. STABILIZE DISTURBED AREAS.

14. CLEAN OUT ALL SEDIMENT FROM TEMPORARY SEDIMENT BASIN. REGRADE TO CONTOURS PER DESIGN. STABILIZE ALL SLOPES AS REQUIRED.

15. REMOVE EROSION CONTROL DEVICES UPON ESTABLISHMENT OF PERMANENT GROUND COVER AND PERMISSION FROM THE PLANNING BOARD. STABILIZE ALL AREAS WHERE EROSION CONTROL DEVICES WERE REMOVED.

16. SEE CONSTRUCTION PHASE POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN DOCUMENT FOR MORE SPECIFIC SPECIFICATIONS AND REQUIREMENTS.

OPERATION/MAINTENANCE PLAN

THIS OPERATION AND MAINTENANCE PLAN SHALL BE PERFORMED BY THE GENERAL CONTRACTOR DURING CONSTRUCTION OPERATIONS AND BY THE OWNER ONCE THE FACILITIES ARE COMPLETED AND PUT INTO OPERATION (SEE THE O&M PLANS INCLUDED IN THE DRAINAGE REPORT FOR MORE DETAILED INFORMATION):

PERSONNEL ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT SHALL BE INFORMED THAT THE MAINTENANCE OF SILTATION CONTROLS TAKES PRECEDENCE OVER NORMAL CONSTRUCTION ACTIVITIES. ADJACENT PROPERTIES AND STREETS SHALL BE PROTECTED FROM EROSION OR SILTATION CONDITIONS.

INSPECTION AND MAINTENANCE. AS OUTLINED HEREIN, SHALL BE PERFORMED FOUR TIMES WITHIN THE FIRST YEAR OF OPERATION. THENCE, INSPECTIONS AND MAINTENANCE SHALL BE CONDUCTED ON A SEMIANNUAL BASIS (2 TIMES A YR.) AND AFTER ALL LARGE STORMS. AN INSPECTION REPORT SHALL BE MAINTAINED.

ACCUMULATED DEBRIS IN VEGETATED FILTER STRIP AND STORMWATER MANAGEMENT (SWM) BASIN SHALL BE REMOVED BEFORE IT EXCEEDS 0.5 FEET IN DEPTH AND DISPOSED OF PROPERLY.

A VISUAL INSPECTION SHALL BE MADE OF ALL STORMWATER MANAGEMENT SYSTEM COMPONENTS FOR THE ENTIRE STORM DRAINAGE SYSTEM. THE GENERAL CONDITION OF THESE STRUCTURES SHOULD BE REVIEWED AND ACCUMULATED DEBRIS SHALL BE REMOVED. THE CONDITION OF ALL OUTLETS SHALL BE NOTED AND A DESCRIPTION OF THE DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE REPORT. DELETERIOUS MATERIALS SHALL BE REMOVED FROM THESE STRUCTURES AND THE DRAINAGE CHANNELS IN ORDER FOR THE SYSTEM TO FUNCTION PROPERLY.

ALL OUTLETS, DRAINING CHANNELS, AND SLOPES SHALL BE KEPT STABILIZED. ANY EROSION SHALL BE REPAIRED IMMEDIATELY.

ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE STORM WATER MANAGEMENT (SWM) BASIN BEFORE IT EXCEEDS 1' IN DEPTH, OR AT LEAST ONCE EVERY 5 YEARS. THE OUTLET ORIFICE SHALL BE CLEANED AND INSPECTED FOR PROPER FUNCTIONING, BASIN AND VEGETATED FILTER STRIP SLOPES SHALL BE MAINTAINED WITH A GRASS STAND OF AT LEAST 3". GRASS SHALL BE MOVED AT LEAST FOUR TIMES A YEAR AND CLIPPINGS SHALL NOT BE LEFT IN BASIN OR ON THE FILTER STRIP. ANY TREES OR OTHER WOODY VEGETATION GROWING IN EMBANKMENTS OR NEAR CONTROL STRUCTURE SHALL BE REMOVED.

THE FOLLOWING MINIMUM INFORMATION SHALL BE RECORDED:

* DATE OF INSPECTION

* GENERAL CONDITION OF THE ENTIRE SYSTEM

* CORRECTIVE MAINTENANCE ACTIONS TAKEN TO ENSURE ADEQUATE FUNCTION AND WHEN PERFORMED. * A COPY OF THESE INSPECTION REPORTS SHALL BE FURNISHED TO THE APPROPRIATE AGENCY UPON REQUEST.

GRADING AND DRAINAGE NOTES:

 DEMOLITION DEBRIS, EXCESS AND UNSUITABLE MATERIALS FROM THE DEMOLITION OPERATION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER BY THE CONTRACTOR.

2. DISTURBED AREAS SHALL BE PROTECTED AT ALL TIMES TO CONTROL SEDIMENT TRANSPORT BEYOND THE LIMIT OF WORK.

3. DISTURBED AREAS SHALL BE TREATED WITH WATER DURING EXCAVATION, OR APPROVED ALTERNATIVE, TO CONTROL THE DUST.

4. ALL DISTURBED AREAS NOT OTHERWISE TREATED SHALL BE STABILIZED WITH 4" LOAM, SEED, & MULCH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AREAS UNTIL VEGETATION HAS BEEN PERMANENTLY ESTABLISHED. SLOPES IN EXCESS OF 3:1 SHALL BE FURTHER STABILIZED WITH EROSION CONTROL BLANKETS (ECB) OF CURLEX OR APPROVED EQUAL.

5. ALL PIPE INSTALLATIONS SHALL FOLLOW PROJECT SPECIFICATIONS AND PIPE MANUFACTURER RECOMMENDATIONS.

6. FILL MATERIAL SHOULD CONSIST OF CLEAN, SAND AND GRAVEL, CRUSHED ROCK, AND CRUSHED UNCOATED CONCRETE FREE OF ORGANIC MATTER, WOOD, TRASH, ICE, FROZEN SOIL AND OTHER DELETERIOUS MATERIALS. THE GRADATION FOR FILL SHOULD SATISFY THE FOLLOWING LIMITS: U.S. SIEVE SIZE AND NUMBER PERCENT FINER BY WEIGHT

19 To Talk | 1

MINIMUM MAXIMUM 100 100 1 INCH NO. 4 NO. 200

ABBREVIATIONS

EXISTING

FOUNDATION

ELEVATION

REMOVE AND RESET

REMOVE AND STACK

BOTTOM OF SLOPE

SLOPED GRANITE EDGING

VERTICAL GRANITE CURB

TOP OF SLOPE

GRANITE CURB

GRANITE EDGING

CONCRETE CURB

BITUMINOUS BERM

BITUMINOUS CURB

NOT IN CONTRACT

LANDSCAPE AREA

FOUND NOT LACATED

NOW OR FORMERLY

NOW OR FORMERLY

UTILITY

CHANGE IN TYPE

FRAME AND GRATE

FRAME AND COVER

VITRIFIED CLAY PIPE

CAST IRON PIPE

HYDRANT

DUCTILE IRON PIPE

INVERT ELEVATION

PAVED WATER WAY

UTILITY POLE

DOWN SPOUT

ON CENTER

PERFORATED DRAIN

INTERCEPTOR DRAIN

CONDUIT

REINFORCED CONCRETE PIPE

POLYVINYL CHLORIDE PIPE

CEMENT LINED DUCTILE IRON PIPE

TAPPING SLEEVE, VALVE AND BOX

CURB STOP FOR WATER LINE

CORRUGATED ALUMINUM PIPE

STORM WATER MANAGEMENT

U.O.N. UNLESS OTHERWISE NOTED

DISTURBED

FOUND

NOT TO SCALE

APPROXIMATE

TYPICAL

EQUAL

MONOLITHIC CONCRETE CURB

CAPE COD BERM

REMOD

ELEV

CCB

NTS

APPROX

VCP

COND

GENERAL APPROVAL BY THE PLANNING BOARD OF THIS PLAN AS SUBMITTED AS A DEFINITIVE **PROPOSED** SUBDIVISION IN NO WAY IS INTENDED TO MINIMUM INDICATE THAT A DETERMINATION HAS ALSO BEEN MADE THAT THE LOTS CREATED ARE IN MAXIMUM COMPLIANCE WITH THE ZONING ORDINANCE OF RETAIN THE TOWN OF MILLIS AND ARE BUILDABLE LOTS REMOVE REMODEL ABANDON

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TOWN OF MILLIS

PLANNING BOARD

PROVAL UNDER THE SUBDIVISION CONTROL

AW REQUIRED

"RIVENDELL WOODS" Land Court Plan of Land Being A Definitive Subdivision of Lot 65 on Land Court Plan No. 15728

GENERAL NOTES & LEGEND

0 CAUSEWAY STREET

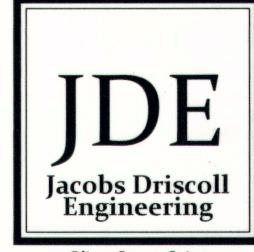
IN **MILLIS** (NORFOLK COUNTY) **MASSACHUSETTS**

AUGUST 27, 2019

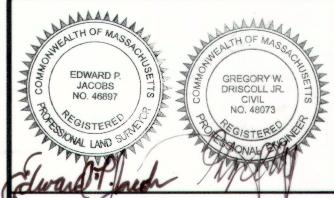
PREPARED FOR:

STEPHEN SILVER 227 CAUSEWAY STREET **MILLIS**

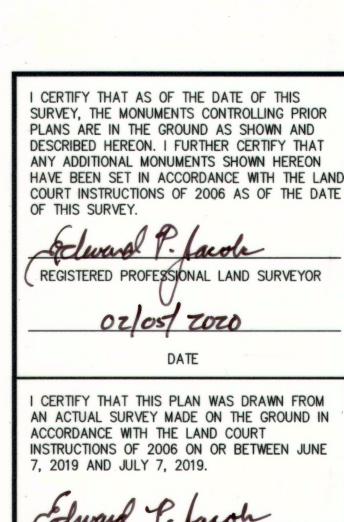
> **MASSACHUSETTS** 02054



50 Oliver Street, Suite 101 North Easton, Massachusetts 02356 Phone: 508-928-4400 www.JacobsDriscoll.com



JOB NUMBER: 2018-079



REGISTERED PROFESSIONAL LAND SURVEYOR 02/05/2020

I CERTIFY THAT THE LOTS SHOWN ON THIS PLAN HAVE FRONTAGE ON A PUBLIC WAY THAT WAS SHOWN ON A PREVIOUS PLAN (9038C) APPROVED IN ACCORDANCE WITH THE SUBDIVISION CONTROL LAW, OF AT LEAST SUCH DISTANCE, IF ANY, AS IS THEN REQUIRED BY ORDINANCE OR BY-LAW OF SAID TOWN OF MILLIS FOR ERECTION OF A BUILDING ON SUCH LOT, AND IF NO DISTANCE IS SO REQUIRED, HAS SUCH FRONTAGE OF AT LEAST TWENTY FEET.

REGISTERED PROFESSIONAL LAND SURVEYOR

02/05 /2020

GENERAL NOTES:

1. ZONING DISTRICT : RESIDENTIAL (R-S) MINIMUM ZONING REQUIREMENTS MIN. LOT AREA = 25,000 S.F. MIN. LOT FRONTAGE = 125' MIN. BUILDING SETBACKS: FRONT = 40' SIDE = 20' REAR = 40'

2. LOCUS PROPERTY IS COMPRISED OF: ASSESSOR'S MAP 15 PLOT 55 LAND COURT CERTIFICATES: 152669 AND 152671 OWNER OF RECORD: STEPHEN & CHIZUKO SILVER

3. PLAN REFERENCES: P-1.) LAND COURT PLAN 15728 AND 15728

4. COMMUNITY PANEL NUMBER 25021C0161 E THE FLOOD INSURANCE RATE MAP DEFINES THIS AREA AS ZONE X, AREAS OUTSIDE THE 0.2% CHANCE ANNUAL FLOOD.

5.) THE PROPERTY LINE INFORMATION SHOWN IS BASED ON CURRENT AVAILABLE RECORD INFORMATION CONSISTING OF PLANS AND DEEDS AND AN ACTUAL ON THE GROUND FIELD SURVEY PERFORMED BY THIS FIRM ON AND BETWEEN JUNE 7, 2019 AND JULY 7, 2019.

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TABLE 1 GEOMETRIC DESIGN STANDARDS: FROM THE PAVEMENT WIDTH REQUIREMENT FOR A TYPE I SECONDARY STREET FROM 26' WIDE TO 22'

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5.10 STREET LIGHTING: FROM THE REQUIREMENT TO INSTALL LIGHTING ALONG ALL STREETS TO AT THE INTERSECTION AND DRIVEWAY LIGHTS ON

5.11 FIRE ALARM & POLICE CALL BOXES: FROM THE REQUIREMENT TO PROVIDE FIRE ALARM AND/OR POLICE CALL BOXES.

I CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE MILLIS PLANNING AND ZONING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE ON



TOWN OF MILLIS PLANNING BOARD APPROVAL UNDER THE SUBDIVISION CONTROL

> APPROVAL BY THE PLANNING BOARD OF THIS PLAN AS SUBMITTED AS A DEFINITIVE SUBDIVISION IN NO WAY IS INTENDED TO INDICATE THAT A DETERMINATION HAS ALSO BEEN MADE THAT THE LOTS CREATED ARE IN COMPLIANCE WITH THE ZONING ORDINANCE OF THE TOWN OF MILLIS AND ARE BUILDABLE LOTS

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"RIVENDELL WOODS" Land Court Plan of Land Being A Definitive Subdivision of Lot 65 on Land Court Plan No. 15728^O

EXISTING CONDITIONS PLAN

0 CAUSEWAY STREET

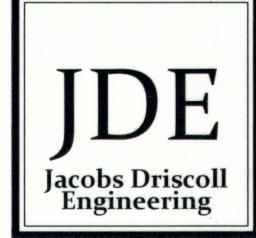
MILLIS (NORFOLK COUNTY) **MASSACHUSETTS**

AUGUST 27, 2019

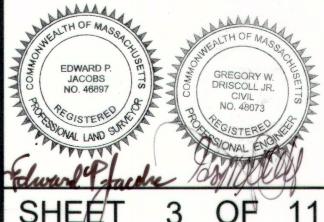
PREPARED FOR:

STEPHEN SILVER 227 CAUSEWAY STREET **MILLIS MASSACHUSETTS**

02054

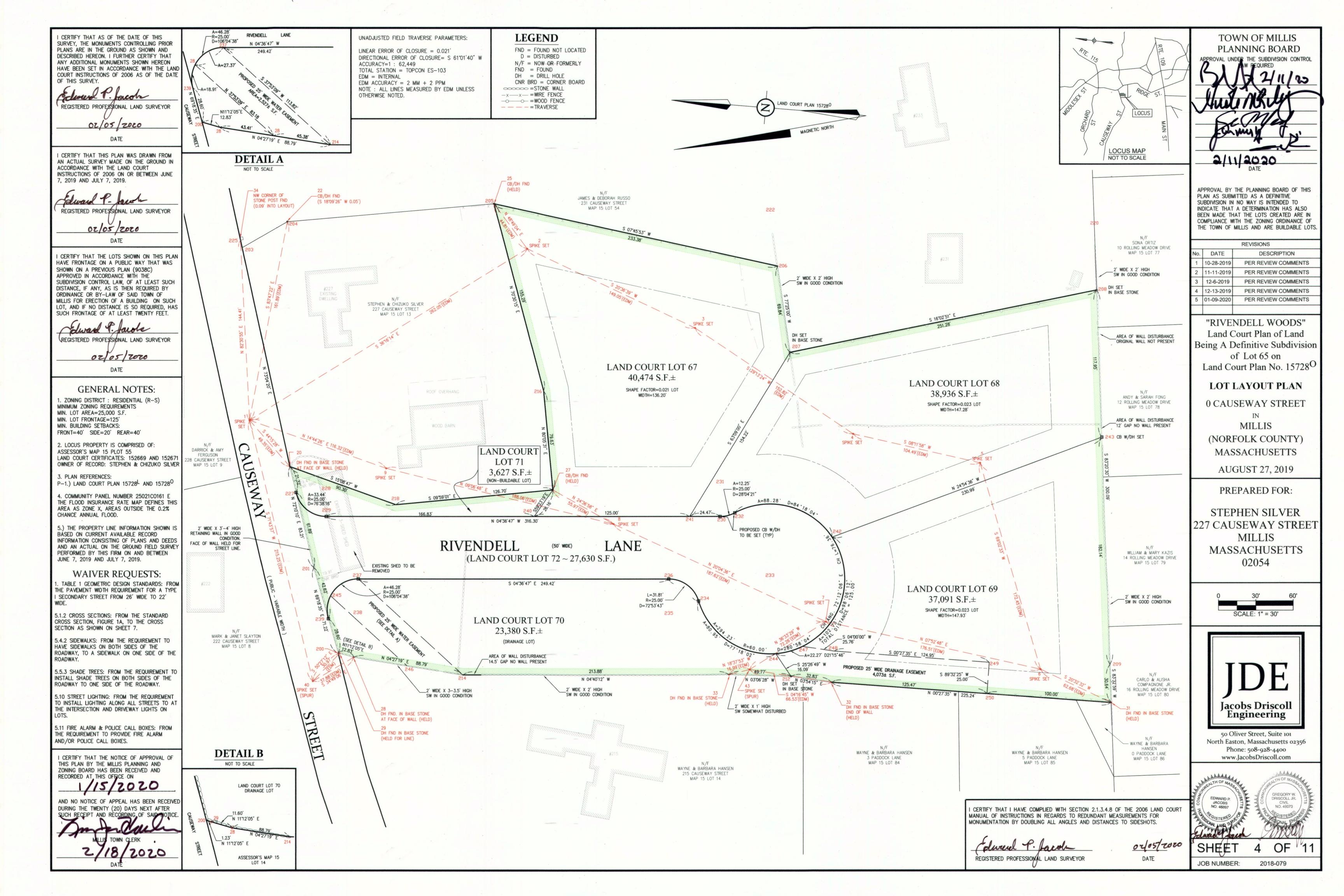


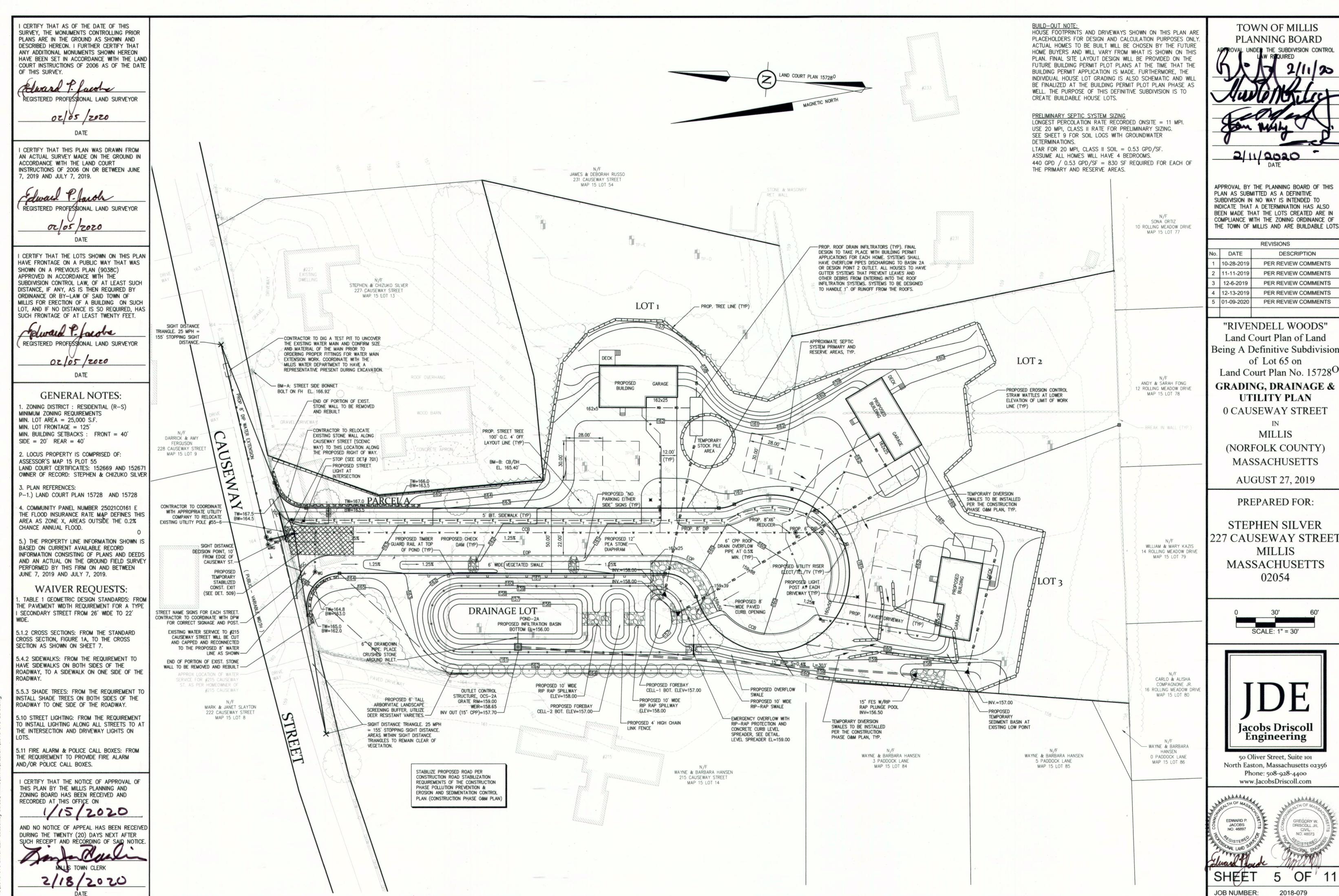
50 Oliver Street, Suite 101 North Easton, Massachusetts 02356 Phone: 508-928-4400 www.JacobsDriscoll.com



2018-079

JOB NUMBER:





X:\2018\2018-079 Silver 227 Causeway Street, Millis\CIVIL\DESIGN\2018-07

REGISTERED PROFESSIONAL LAND SURVEYOR

02/05/2020

I CERTIFY THAT THIS PLAN WAS DRAWN FROM AN ACTUAL SURVEY MADE ON THE GROUND IN ACCORDANCE WITH THE LAND COURT INSTRUCTIONS OF 2006 ON OR BETWEEN JUNE 7, 2019 AND JULY 7, 2019.

REGISTERED PROFESSIONAL LAND SURVEYOR

02/05/2020

HAVE FRONTAGE ON A PUBLIC WAY THAT WAS APPROVED IN ACCORDANCE WITH THE SUBDIVISION CONTROL LAW, OF AT LEAST SUCH LOT, AND IF NO DISTANCE IS SO REQUIRED, HAS SUCH FRONTAGE OF AT LEAST TWENTY FEET.

REGISTERED PROFESSIONAL LAND SURVEYOR

02/05/2020

GENERAL NOTES:

. ZONING DISTRICT : RESIDENTIAL (R-S) MINIMUM ZONING REQUIREMENTS MIN. LOT AREA = 25,000 S.F. MIN. LOT FRONTAGE = 125'MIN. BUILDING SETBACKS: FRONT = 40' SIDE = 20' REAR = 40'

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PLAN REFERENCES: P-1.) LAND COURT PLAN 15728 AND 15728

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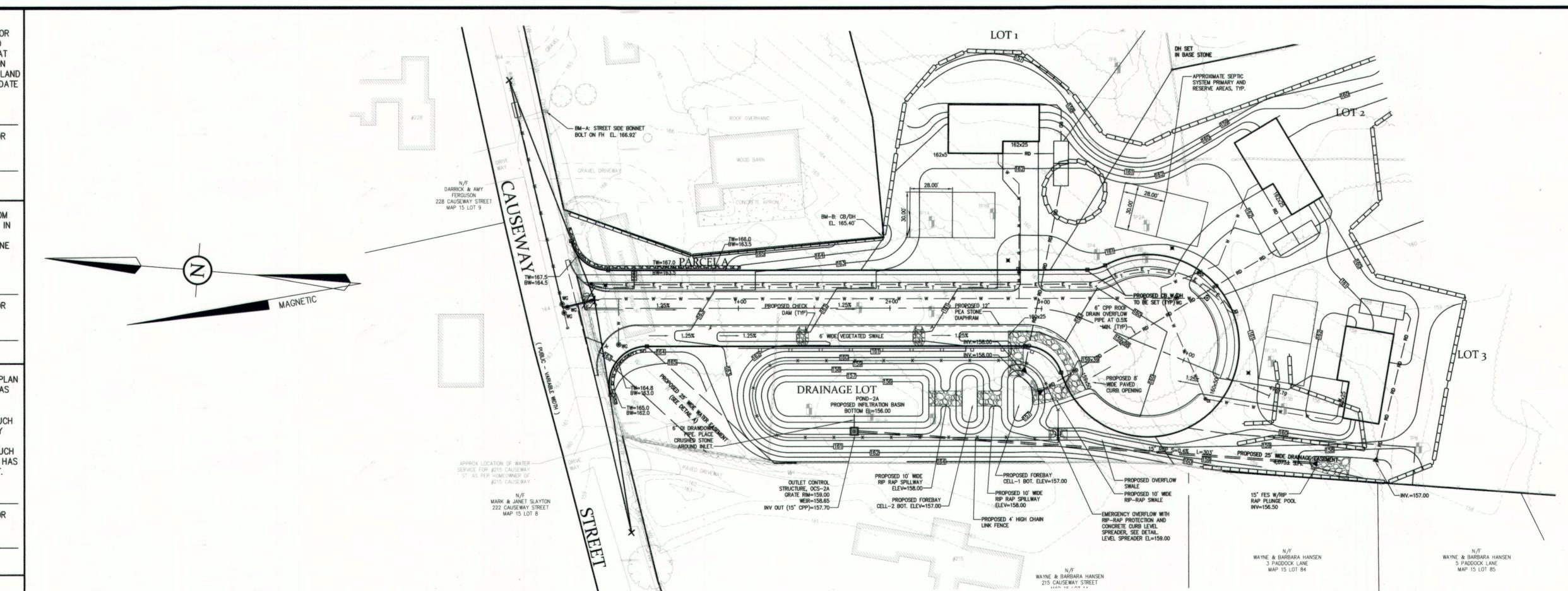
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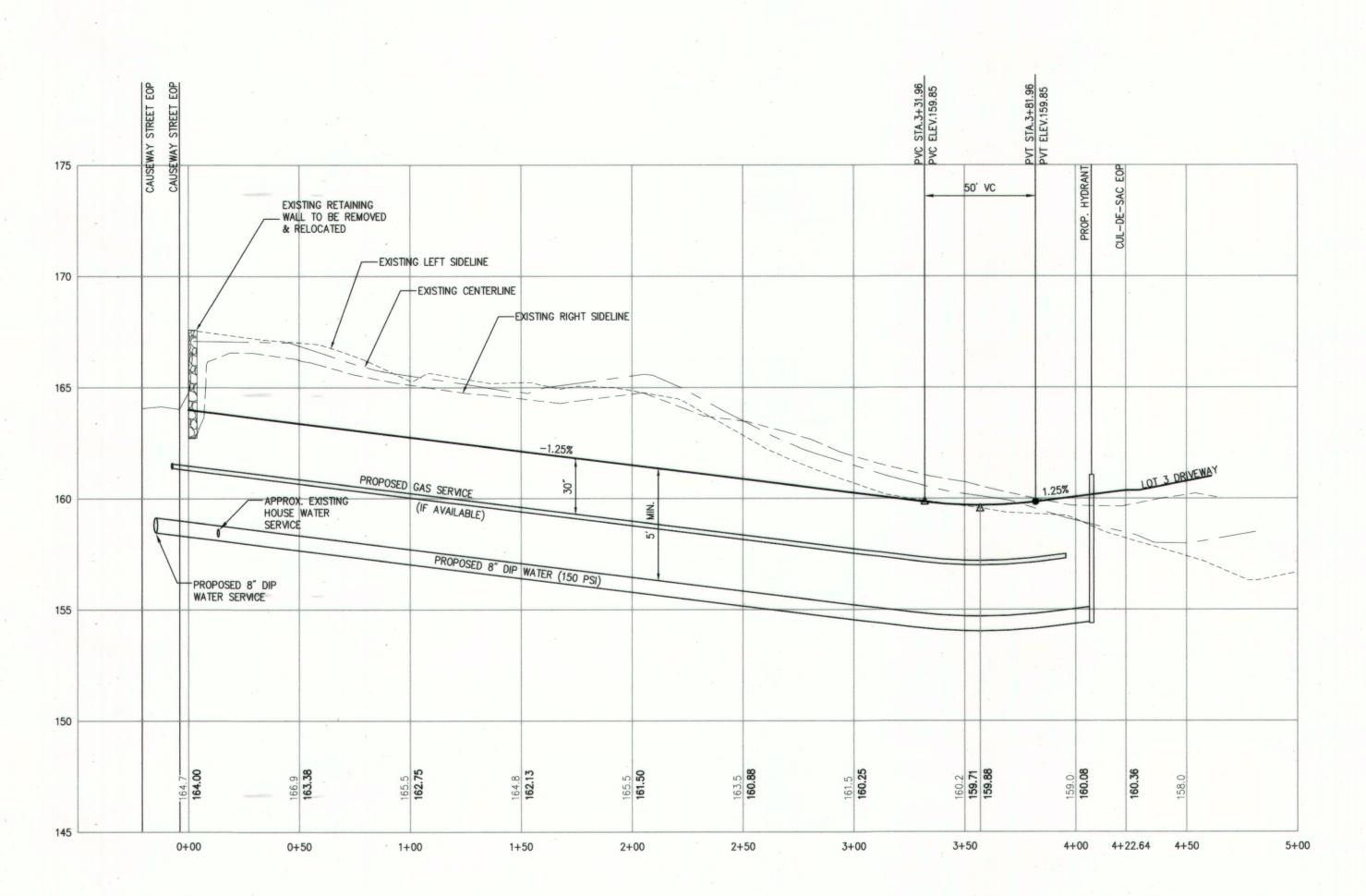
I CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE MILLIS PLANNING AND ZONING BOARD HAS BEEN RECEIVED AND

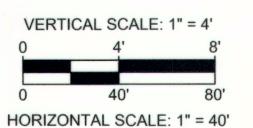
RECORDED AT THIS OFFICE ON

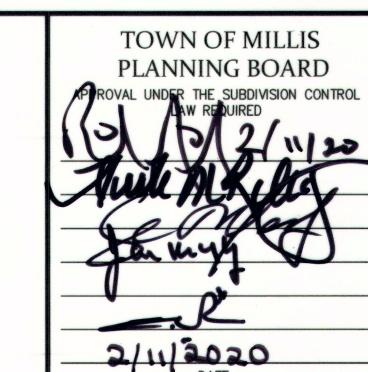


RIVENDELL

TYPE-1 SECONDARY STREET PER MILLIS SUBDIVISION RULES AND REGULATIONS







APPROVAL BY THE PLANNING BOARD OF THIS PLAN AS SUBMITTED AS A DEFINITIVE SUBDIVISION IN NO WAY IS INTENDED TO INDICATE THAT A DETERMINATION HAS ALSO BEEN MADE THAT THE LOTS CREATED ARE IN COMPLIANCE WITH THE ZONING ORDINANCE OF THE TOWN OF MILLIS AND ARE BUILDABLE LOTS

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"RIVENDELL WOODS" Land Court Plan of Land Being A Definitive Subdivision of Lot 65 on Land Court Plan No. 15728^O

PLAN & PROFILE

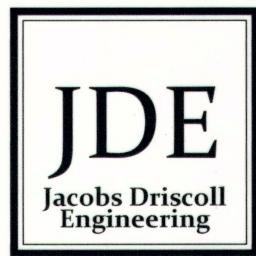
0 CAUSEWAY STREET

MILLIS (NORFOLK COUNTY) MASSACHUSETTS

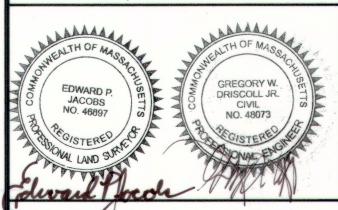
PREPARED FOR:

AUGUST 27, 2019

STEPHEN SILVER 227 CAUSEWAY STREET **MILLIS MASSACHUSETTS** 02054

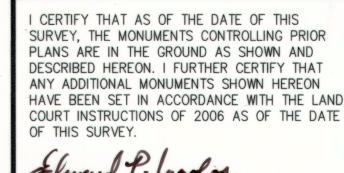


50 Oliver Street, Suite 101 North Easton, Massachusetts 02356 Phone: 508-928-4400 www.JacobsDriscoll.com



JOB NUMBER:

2018-079



Elward P. Jacols REGISTERED PROFESSIONAL LAND SURVEYOR 02/05/2020

I CERTIFY THAT THIS PLAN WAS DRAWN FROM AN ACTUAL SURVEY MADE ON THE GROUND IN ACCORDANCE WITH THE LAND COURT INSTRUCTIONS OF 2006 ON OR BETWEEN JUNE 7, 2019 AND JULY 7, 2019.

REGISTERED PROFESSIONAL LAND SURVEYOR 02/05/2020

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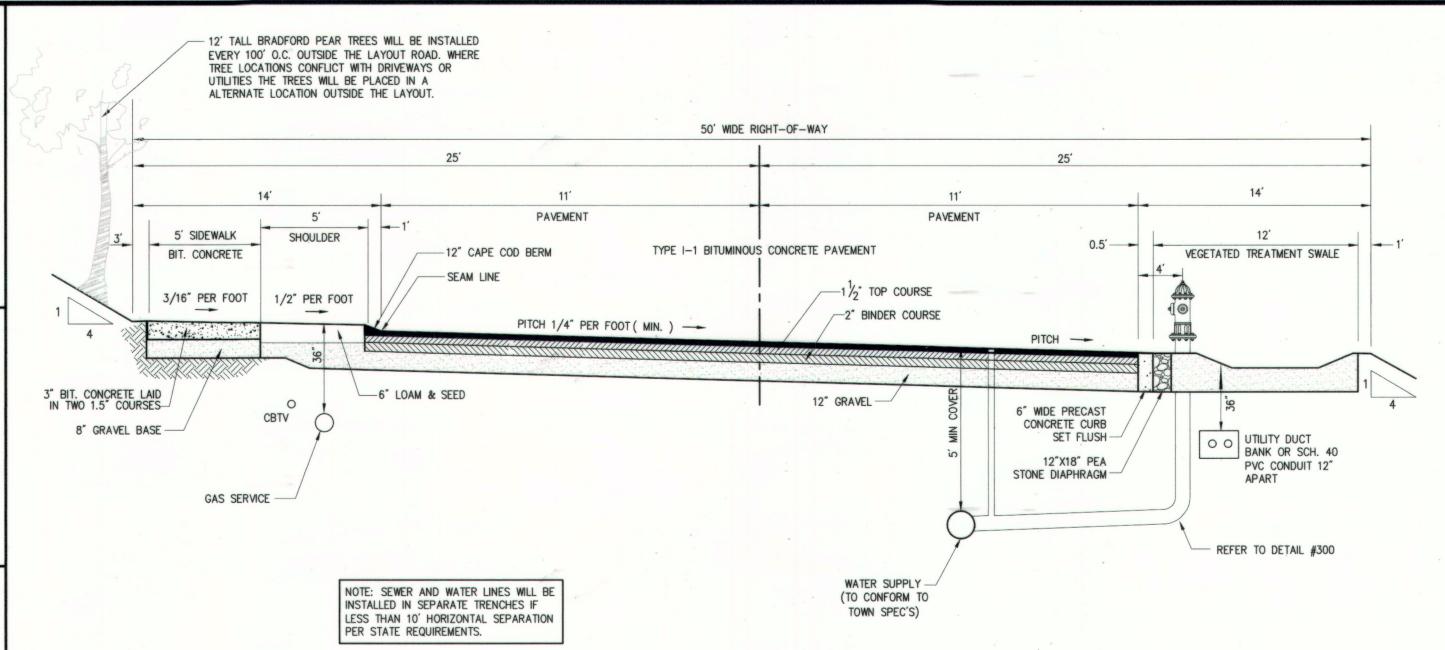
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15/2020



TYPICAL SUPER ELEVATED PAVED ROAD SECTION DETAIL # 437

BITUMINOUS

BITUMINOUS

- COMPACTED

GRAVEL BASE

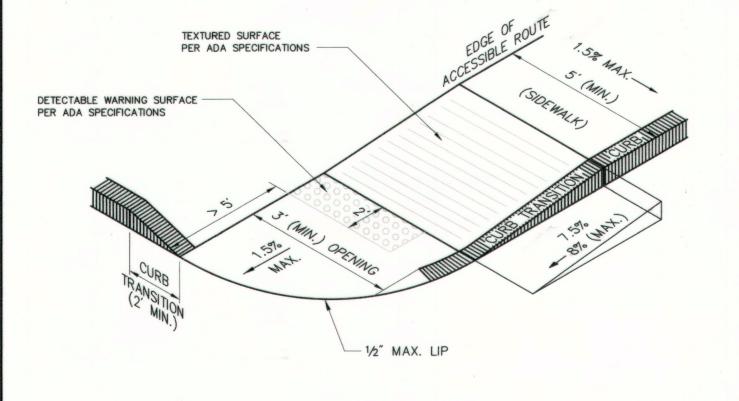
COMPACTED

SUBGRADE

CONC. PAVEMENT (TOP COURSE)

CONC. PAVEMENT

(BINDER COURSE)



DETAIL # 402

TREATMENT

VARIES --

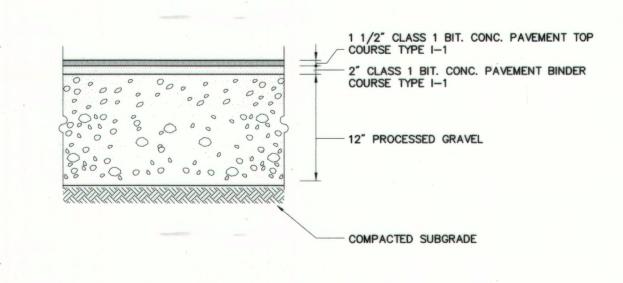
BITUMINOUS TACK COAT

 THE MAXIMUM ALLOWABLE ROUTE (SIDEWALK) AND CURB RAMP CROSS SLOPES SHALL BE 1.5%
 THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%
 THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMPS SHALL BE 8% 4. A MINIMUM OF 4 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E.,

HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.)
5. CURB TREATMENT VARIES, SEE PLANS FOR CURB TYPE.
6. BASE OF RAMP SHALL BE GRADED TO PREVENT PONDING.
7. SEE TYPICAL SIDEWALK SECTION FOR RAMP CONSTRUCTION.

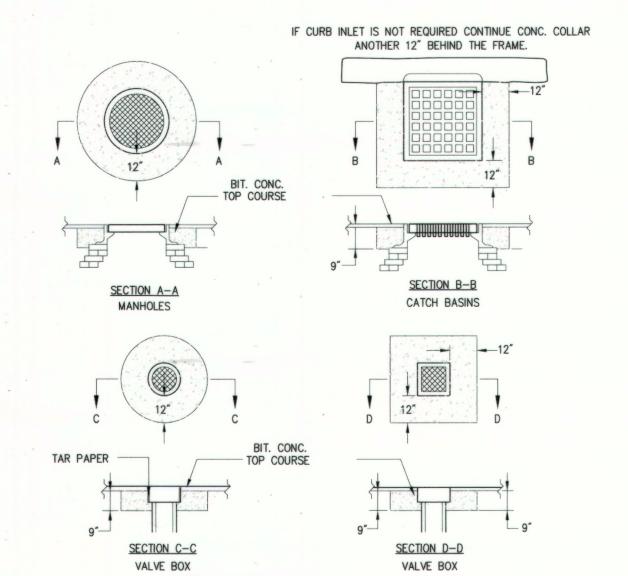
8. DETECTABLE WARNING PANEL LOCATION NOT LESS THAN 6" OR MORE THAN 24" FROM ROADWAY EDGE (GUTTER LINE) TRUNCATED DOMES TO BE ALIGNED WITH DIRECTION OF TRAVEL. FOR DETAIL OF TRUNCATED DOMES SEE

ACCESSIBLE CURB RAMP - TYPE "B"



STANDARD DUTY FLEXIBLE PAVEMENT

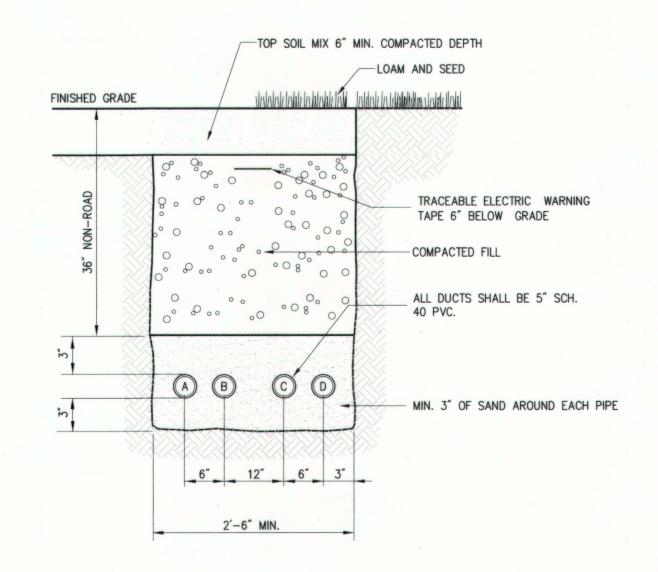
PAVEMENT SECTION DETAIL # 418



1. COLLARS TO BE 4350 PSI (30 MPa), 1-1/2" (40mm), 740 LB. (335 kg) CEMENT CONCRETE MASONRY OR H.E.S. AS DIRECTED (IF HAND MIXED SEE LATEST STANDARD SPECIFICATIONS). NO CONCRETE REQUIRED IN CONCRETE PAVEMENT.

3. ALL WORK SHALL CONFORM TO MHD STANDARD 202.9.0 UNLESS OTHERWISE NOTED

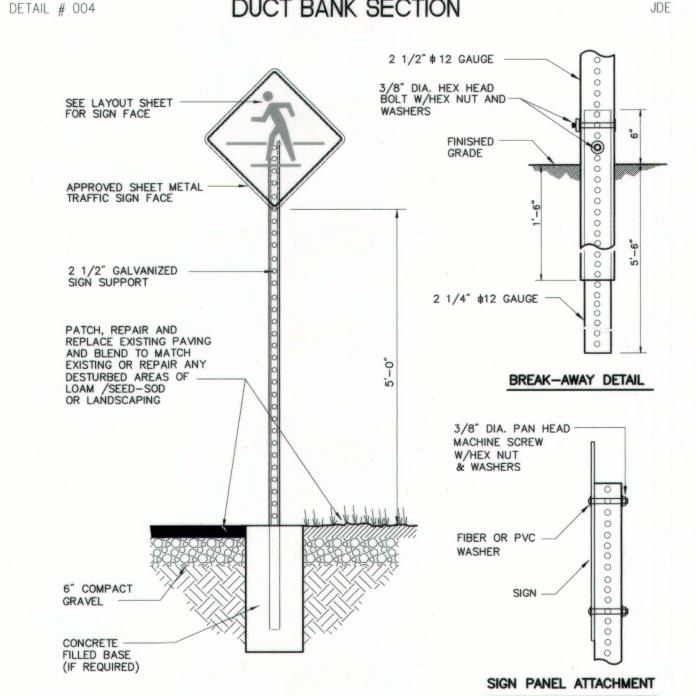
DUCTILE IRON PIPE * WHERE THE SIZE OF THE CONNECTION EXCEEDS THAT GIVEN IN THE MAXIMUM SIZE TABLE A BOSS SHALL BE PROVIDED OR THE TAP SHALL BE MADE BY TAPPED CONNECTION * MEANS OF MUTIPLE CORP. STOPS AND BRANCH FITTINGS, TAPPED TEE, WATER MAIN MAXIMUM TAP OR TAPPED SADDLE. TAPPING SADDLES SHALL BE USED FOR ALL SIZES DIAMETER DIAMETER OF AC AND PVC WATER MAINS 3/4" 3/4" 1" - EDGE TREATMENT 1" 5** 10" - SIDEWALK OR GRASS FINISHED GRADE 1-1/4" 12" - "BUFFALO" STYLE VALVE BOX & COVER IN SIDEWALK OR GRASS - TYPE K COPPER SERVICE - CURB STOP TO BUILDING SERVICE V XX XX XX XX TYPE 2-SAND BLANKET BEDDING -WATER MAIN PLACE BRICK SUPPORT -UNDERNEATH CURBSTOP COPPER SERVICE CONNECTION



NOT TO SCALE

A-TELEPHONE CABLE B-FIRE ALARM CABLE C-SECONDARY ELECTRIC / LAMP CABLE D-ONE PRIMARY ELECTRIC CABLE





TOWN OF MILLIS PLANNING BOARD OVAL UNDER THE SUBDIVISION CONTROL 2/11/2020

APPROVAL BY THE PLANNING BOARD OF THIS PLAN AS SUBMITTED AS A DEFINITIVE SUBDIVISION IN NO WAY IS INTENDED TO INDICATE THAT A DETERMINATION HAS ALSO BEEN MADE THAT THE LOTS CREATED ARE IN COMPLIANCE WITH THE ZONING ORDINANCE OF THE TOWN OF MILLIS AND ARE BUILDABLE LOTS.

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"RIVENDELL WOODS" Land Court Plan of Land Being A Definitive Subdivision of Lot 65 on Land Court Plan No. 15728^O

CONSTRUCTION **DETAILS**

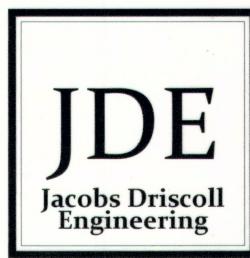
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MILLIS (NORFOLK COUNTY) MASSACHUSETTS

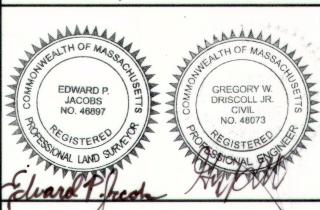
AUGUST 27, 2019

PREPARED FOR:

STEPHEN SILVER 227 CAUSEWAY STREET **MILLIS MASSACHUSETTS** 02054



50 Oliver Street, Suite 101 North Easton, Massachusetts 02356 Phone: 508-928-4400 www.JacobsDriscoll.com



JOB NUMBER: 2018-079

DETAIL # 411

DETAIL # 451

CONCRETE COLLAR

TRAFFIC SIGN POST DETAIL # 704

CAPE COD BERM (CCB)

JDE

CERTIFY THAT AS OF THE DATE OF THIS SURVEY, THE MONUMENTS CONTROLLING PRIOR PLANS ARE IN THE GROUND AS SHOWN AND DESCRIBED HEREON. I FURTHER CERTIFY THAT ANY ADDITIONAL MONUMENTS SHOWN HEREON HAVE BEEN SET IN ACCORDANCE WITH THE LAND COURT INSTRUCTIONS OF 2006 AS OF THE DATE OF THIS SURVEY.

Edward P. Jacobse REGISTERED PROFESSIONAL LAND SURVEYOR

02/05/2020

I CERTIFY THAT THIS PLAN WAS DRAWN FROM AN ACTUAL SURVEY MADE ON THE GROUND IN ACCORDANCE WITH THE LAND COURT INSTRUCTIONS OF 2006 ON OR BETWEEN JUNE 7, 2019 AND JULY 7, 2019.

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Toloward T. Jacobs REGISTERED PROFESSIONAL LAND SURVEYOR 02/05/2020

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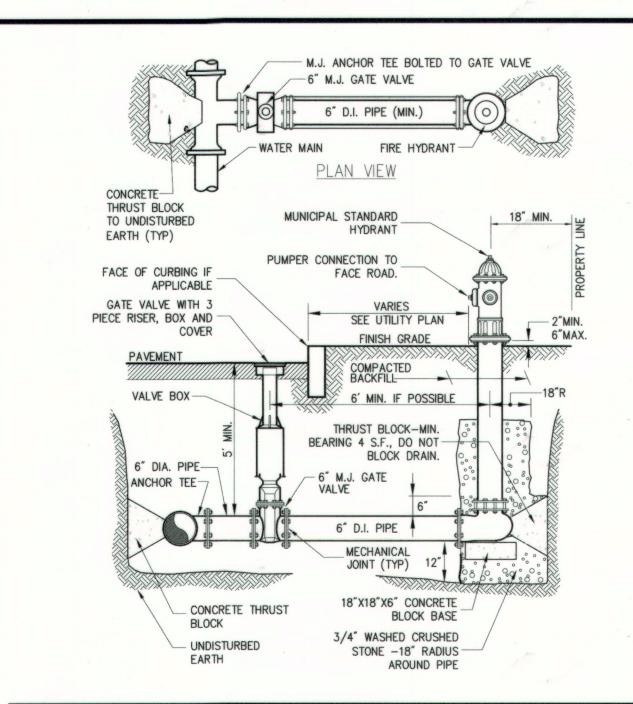
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I CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE MILLIS PLANNING AND ZONING BOARD HAS BEEN RECEIVED AND

15/2020



FIRE HYDRANT CONNECTION DETAIL # 300

SECURE STRAW WATTLE WITH 1" 12" DIA. STRAW WATTLE BY NORTH X 1" X 4' HARDWOOD STAKES AMERICAN GREEN OR APPROVED EQUAL INSTALLED AT TOE OF ANY DISTURBED SLOPE OR LIMITS OF CONSTRUCTION, TYPE FLOW -2" TRENCH MIN. -UNDISTURBED SUBGRADE (PROTECTED AREA)

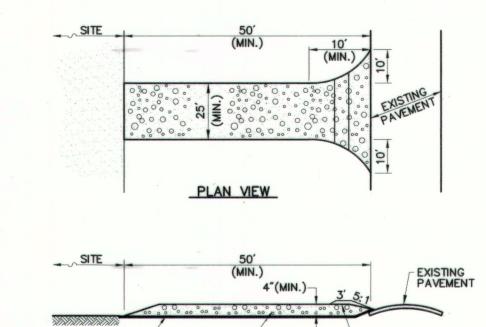
DETAIL # 519

- PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF STRAW WATTLE.
- INSTALL STRAW WATLLES PERPENDICULAR TO THE FLOW DIRECTION AND PARALLEL TO THE SLOPE WITH THE BEGINNING AND END OF THE INSTALLATION POINTING SLIGHTLY UP THE SLOPE CREATING A "J" SHAPE AT EACH END TO PREVENT BYPASS. EXCAVATE A 4" DEEP X 9" WIDE TRENCH, EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR
- PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT OR
- SECURE WATTLES WITH 1"x1"x24" STAKES EVERY 3'-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2"-3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.
- STRAW WATTLE TO BE 12" DIA. MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL.
- EROSION CONTROL MEASURES SHALL FOLLOW THE PERFORMANCE STANDARDS OF THE USDA SOIL CONSERVATION SERVICE, AND ANY APPLICABLE STATE/LOCAL CONSERVATION AUTHORITY.

STRAW WATTLE EROSION CONTROL

TABLE OF DIMENSIONS 6" 221/2° · 13" 6" 90° 30" 12" 8" 45° 8" 111/4° 22" . 17" 8" 90° 8" 221/2" " 15" 12" 45° 12" 111/4° 12" 221/2" " 35" " 25" 12" 90° 60" BENDS -UNDISTURBED SECTION 1-1 TABLE OF DIMENSIONS TEES 12"x 12"x 6" | 12" | 24" | 24" | 18" 6"x 6"x 6" 12"x 12"x 8" 8"x 8"x 6" 8"x 8"x 8" 12"x 12"x 12" TEES UNDISTURBED SECTION 2-2 1. PROVIDE BLOCKS FOR TAPPING SLEEVES, DEAD ENDS, GATE VALVES, AND VERTICAL BENDS (SAME SIZE AS REQUIRED FOR TEES). PROVIDE ANCHOR RODS AT VERTICAL BENDS AND GATE VALVES. CONCRETE SHALL NOT BE PLACED AGAINST PIPE BEYOND FITTING

CONCRETE THRUST BLOCK DETAIL # 301



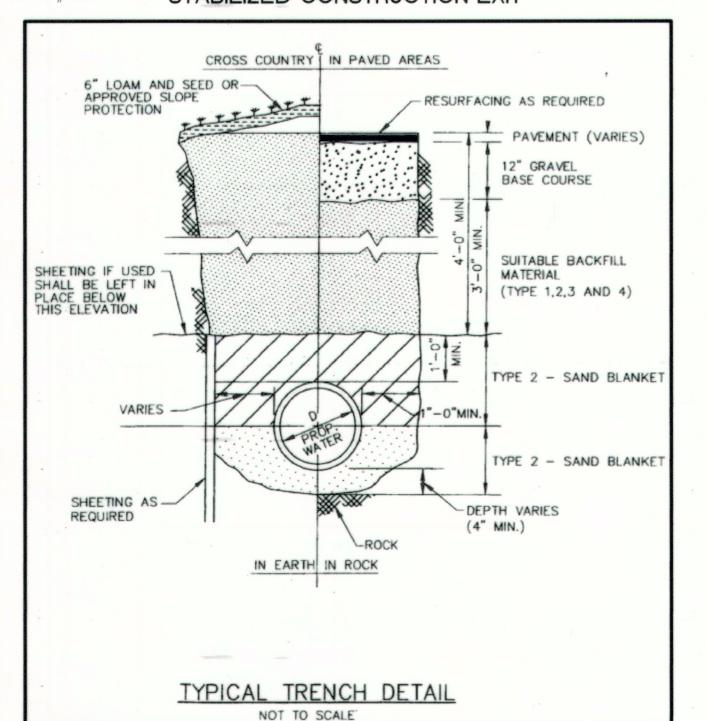
- MOUNTABLE BERM

CROSS-SECTION

1 1/2" CRUSHED STONE-

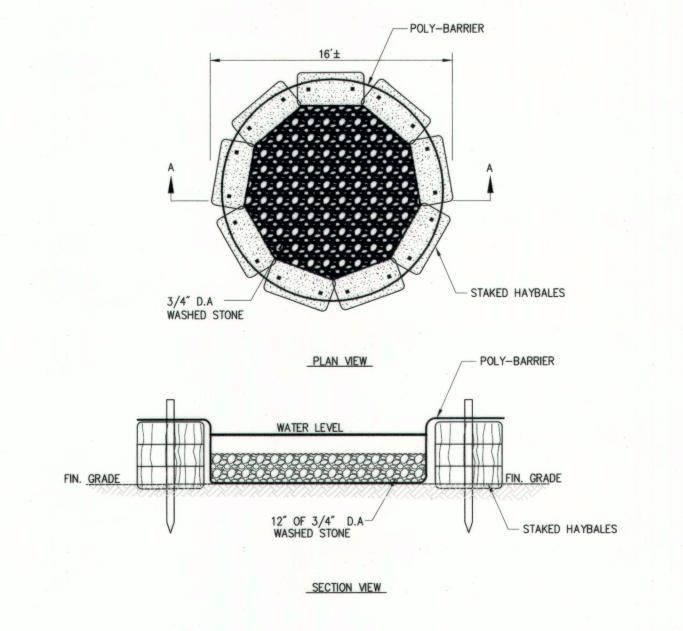
- 1. ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.

STABILIZED CONSTRUCTION EXIT DETAIL # 509



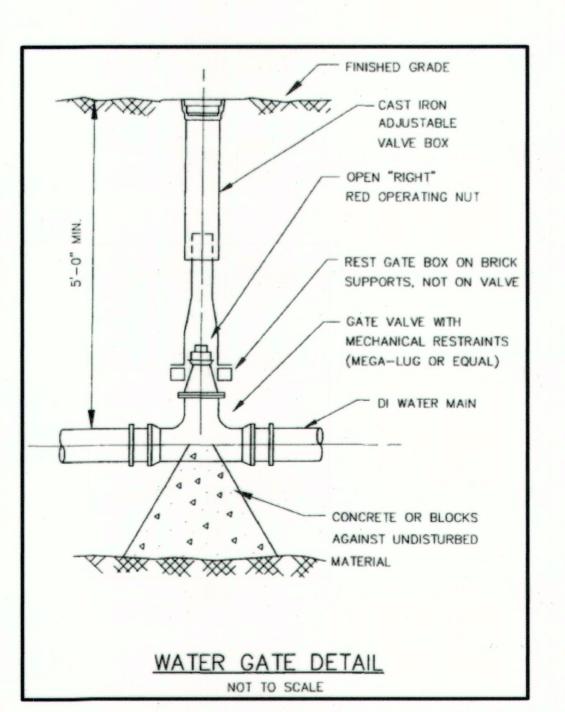
Q LANE LENGTH AS REQUIRED (SEE LAYOUT PLAN) -12" (SWL) WHITE PAINTED STOP LINE (SWL) R1-1-SIGN 4" WHITE PAINT (REFER TO MOST - RESENT EDITION OF M.U.T.C.D. REGULATIONS) 12' MIN. TRAVEL LANE NOTE: PAVEMENT MARKINGS TO BE INSTALLED IN LOCATIONS SHOWN ON THE LAYOUT PLANS. (SWL) = SOLID WHITE LINE

PAINTED TRAFFIC SYMBOL (STOP) DETAIL # 701



TEMPORARY CONCRETE WASH OUT/

DE-WATERING BASIN DETAIL # 523



TOWN OF MILLIS PLANNING BOARD THE SUBDIVISION CONTROL

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CONSTRUCTION **DETAILS**

0 CAUSEWAY STREET

MILLIS (NORFOLK COUNTY) **MASSACHUSETTS**

PREPARED FOR:

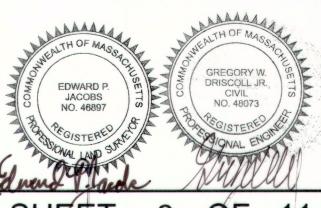
AUGUST 27, 2019

STEPHEN SILVER 227 CAUSEWAY STREET **MILLIS MASSACHUSETTS**

02054

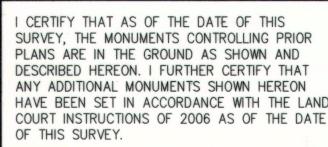


50 Oliver Street, Suite 101 North Easton, Massachusetts 02356 Phone: 508-928-4400 www.JacobsDriscoll.com



2018-079

JOB NUMBER:



Edward P. Jacobs REGISTERED PROFESSIONAL LAND SURVEYOR 02/05/2020

DATE

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5.4.2 SIDEWALKS: FROM THE REQUIREMENT TO HAVE SIDEWALKS ON BOTH SIDES OF THE ROADWAY, TO A SIDEWALK ON ONE SIDE OF THE

5.5.3 SHADE TREES: FROM THE REQUIREMENT TO INSTALL SHADE TREES ON BOTH SIDES OF THE ROADWAY TO ONE SIDE OF THE ROADWAY.

5.10 STREET LIGHTING: FROM THE REQUIREMENT TO INSTALL LIGHTING ALONG ALL STREETS TO AT THE INTERSECTION AND DRIVEWAY LIGHTS ON

5.11 FIRE ALARM & POLICE CALL BOXES: FROM THE REQUIREMENT TO PROVIDE FIRE ALARM AND/OR POLICE CALL BOXES.

I CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE MILLIS PLANNING AND ZONING BOARD HAS BEEN RECEIVED AND

OBSERVATION HOLE DATA (DRAINAGE TEST PITS)

INDICATES PERC TINDICATES OBSERVED = GROUNDWATER

TEST PIT # 1 GRD. EL. 165.2 GW. EL. 154.2 DATE: 6-19-18 MOTTLES @ NONE TEST BY: PATRICK CARRARA WITNESSED BY: _EXPLORATORY SOIL TESTING CERTIFIED BY: NONE

DEPTH (IN)	SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER	
0-11	AP	10YR 4/3	SANDY LOAM		
11-27	BW	10YR 5/6	LOAMY SAND		
27-54	BG	10YR 6/6	SAND		
54-64	C1	2.5Y 6/3	SAND		
64-80	C2	2.5Y 5/2	SANDY LOAM		

WEEPING @ N/A PERC RATE _____N/A __MIN/INCH *APPROVED SOIL EVALUATOR NUMBER SE338

80-132 C3 2.5Y 6/3 SAND

OBSERVATION HOLE DATA (DRAINAGE TEST PITS)

INDICATES PERC INDICATES OBSERVED GROUNDWATER TEST PIT # 1A GRD. EL. ___162.4 GW. EL. <151.4 DATE: 5-29-19 MOTTLES @ NONE TEST BY: PATRICK CARRARA WITNESSED BY: JOHN MCVEIGH

0-9	AP	10YR 3/2	SANDY	
		101K 3/2	LOAM	
9-19	BW	10YR 5/6	LOAMY SAND	
19-48	C1	2.5Y 6/6	LOAMY SAND	
48-132	C2	2.5Y 5/3	LOAMY SAND	41"-5

PERC RATE ______ MIN/INCH

OBSERVATION HOLE DATA

TEST PIT # C GRD. EL. __164.3____

DATE: 10-17-19 MOTTLES @ NONE

TEST BY: GREGORY DRISCOLL, JR. P.E.

DEPTH SOIL SOIL SOIL SOIL OTHER

0-11 AP 10YR 3/4 SANDY

11-27 BW 10YR 5/6 LOAMY SAND

27-56 C1 2.5Y 6/4 FINE SAND

56-150 C2 2.5Y 5/3 LOAMY

PERC RATE N/A MIN/INCH

WEEPING @ N/A

WITNESSED BY:

CERTIFIED BY: NONE

GW. EL. 151.8-

(DRAINAGE TEST PITS)

(DRAINAGE TEST PITS) INDICATES PERC TINDICATES OBSERVED

= GROUNDWATER TEST PIT # 2 GRD. EL. 164.5 GW. EL. 153.75 DATE: 6-19-18 MOTTLES @ NONE TEST BY: PATRICK CARRARA

OBSERVATION HOLE DATA

WITNESSED BY: <u>EXPLORATORY SOIL TESTING</u> CERTIFIED BY: NONE

	Name and Address of the Owner, which we have a second or the Owner, which we have a s		
SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER
AP	10YR 3/3	SANDY LOAM	
BW	10YR 6/6	LOAMY SAND	
C1	2.5Y 6/2	LOAMY SAND	38"-56"
		p.	
	AP BW	HORZ. COLOR AP 10YR 3/3 BW 10YR 6/6	HORZ. COLOR TEXTURE AP 10YR 3/3 SANDY LOAM BW 10YR 6/6 LOAMY SAND C1 2.5Y 6/2 LOAMY SAND

WEEPING @ N/A PERC RATE _____11__MIN/INCH *APPROVED SOIL EVALUATOR NUMBER SE338

OBSERVATION HOLE DATA

NDICATES PERC

✓ INDICATES OBSERVED GROUNDWATER TEST PIT # 1B GRD. EL. 160.2 GW. EL. ___152.2 DATE: __5-29-19 MOTTLES @ __152.2 TEST BY: PATRICK CARRARA

CERTIFIED	BY:	NONE		
DEPTH (IN)	SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER
0-10	AP	10YR 3/2	SANDY	
10-27	BW	10YR 5/8	LOAMY SAND	
27-69	C1	2.5Y 6/3	LOAMY SAND	12"-30"
69-93	C2	2.5Y 5/3	SILT LOAM	
93-125	С3	2.5Y 5/3	SAND	∇
				=

PERC RATE _____ <2 __MIN/INCH *APPROVED SOIL EVALUATOR NUMBER SE338

OBSERVATION HOLE DATA (DRAINAGE TEST PITS) (DRAINAGE TEST PITS)

WITNESSED BY: JOHN MCVEIGH

*APPROVED SOIL EVALUATOR NUMBER SE338

OBSERVATION HOLE DATA (DRAINAGE TEST PITS)

NDICATES PERC

✓ INDICATES OBSERVED GROUNDWATER

TEST PIT # 3 GRD. EL. 162.5 GW. EL. ___153.42 DATE: 6-19-18 MOTTLES @ NONE TEST BY: PATRICK CARRARA WITNESSED BY: EXPLORATORY SOIL TESTING CERTIFIED BY: NONE

SOIL SOIL SOIL TEXTURE OTHER 0-9 AP 10YR 4/3 SANDY 9-23 BW 10YR 5/6 SAND 23-80 C1 2.5Y 6/4 SAND 80-109 C2 5Y 5/3 SANDY

NDICATES PERC

✓ INDICATES OBSERVED

TEST PIT # 2A GRD. EL. __158.5

DATE: 5-29-19 MOTTLES @ 151.7

DEPTH SOIL SOIL SOIL (IN) HORZ. COLOR TEXTURE OTHER

TEST BY: PATRICK CARRARA

WITNESSED BY: JOHN MCVEIGH

0-9 AP 10YR 3/2 SANDY

9-28 BW 10YR 5/6 LOAMY

28-74 C1 2.5Y 6/3

74-120 C2 2.5Y 6/3

PERC RATE _____ <2 __MIN/INCH

*APPROVED SOIL EVALUATOR NUMBER SE338

DETAIL # 823

CERTIFIED BY: NONE

= GROUNDWATER

GW. EL. 151.7

LOAMY

WEEPING @ N/A

WEEPING @ N/A PERC RATE _____N/A __MIN/INCH PERC RATE _____N/A__MIN/INCH *APPROVED SOIL EVALUATOR NUMBER SE338 *APPROVED SOIL EVALUATOR NUMBER SE338

TEST BY: PATRICK CARRARA

0-12 AP 10YR 4/3 SANDY

12-31 BW 10YR 5/8 LOAM

31-62 | C1 | 2.5Y 6/3 | SAND

77-99 C3 2.5Y 4/3 LOAM

99-122 C4 2.5Y 6/3 SAND

OBSERVATION HOLE DATA

TEST PIT # 2B GRD. EL. ___158.7

DATE: 5-29-19 MOTTLES @ 152.0

TEST BY: PATRICK CARRARA

WITNESSED BY: JOHN MCVEIGH

0-9 AP 10YR 3/2 SANDY

9-21 BW 10YR 5/6 LOAMY

PERC RATE <2 MIN/INCH

21-66 C1 2.5Y 6/3 SAND 24"-42

CERTIFIED BY: NONE

INDICATES PERC TINDICATES OBSERVED

SOIL SOIL SOIL OTHER

GROUNDWATER

GW. EL. 152.0

(DRAINAGE TEST PITS)

62-77 C2 5Y 5/3

CERTIFIED BY: NONE

OBSERVATION HOLE DATA (DRAINAGE TEST PITS)

INDICATES PERC INDICATES OBSERVED GROUNDWATER TEST PIT # 5 GRD. EL. __159.5 TEST PIT # 4 GRD. EL. __159.5

GW. EL. 149.33 DATE: 6-19-18 MOTTLES @ NONE TEST BY: PATRICK CARRARA WITNESSED BY: EXPLORATORY SOIL TESTING CERTIFIED BY: NONE DEPTH SOIL SOIL SOIL DEPTH SOIL SOIL SOIL (IN) HORZ. COLOR TEXTURE OTHER

(IN)	HORZ.	COLOR	TEXTURE	OTHER
0-7	AP	10YR 4/4	SANDY LOAM	
7-26	BW	10YR 6/6	LOAMY SAND	-
26-35	C1	2.5Y 7/3	SAND	
35-48	C2	2.5Y 6/3	LOAMY SAND	
48-66	С3	2.5Y 5/3	SANDY LOAM	
66-77	C4	2.5Y 5/4	SAND	,
77-146	C5	2.5Y 6/2	LOAMY SAND	-48

WEEPING @ _____132"____ PERC RATE _____N/A__MIN/INCH

OBSERVATION HOLE DATA OBSERVATION HOLE DATA (DRAINAGE TEST PITS) (DRAINAGE TEST PITS)

INDICATES PERC T INDICATES OBSERVED = GROUNDWATER

TEST PIT # 6 GRD. EL. __157.9 GW. EL. 150.67 DATE: 6-19-18 MOTTLES @ 150.67 DATE: 6-19-18 MOTTLES @ NONE TEST BY: PATRICK CARRARA WITNESSED BY: EXPLORATORY SOIL TESTING WITNESSED BY: EXPLORATORY SOIL TESTING CERTIFIED BY: NONE

							***************************************			ement of the second
DEPTH (IN)	SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER		DEPTH (IN)	SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER
0-7	AP	10YR 4/4	SANDY LOAM			0-6	AP	10YR 4/3	SANDY LOAM	
7-26	BW	10YR 6/6	LOAMY SAND			6-17	BW	10YR 4/6	LOAMY SAND	
26-35	C1	2.5Y 7/3	SAND			17-69	C1	2.5Y 6/3	SAND	
35-48	C2	2.5Y 6/3	LOAMY SAND			69-135	C2	2.5Y 6/2	SANDY LOAM	
48-66	С3	2.5Y 5/3	SANDY LOAM							
66-77	C4	2.5Y 5/4	SAND							
77-146	C5	2.5Y 6/2	LOAMY SAND			WEEPING		N/A		
WEEPING @ 132" PERC RATE N/A MIN/INCH										

*APPROVED SOIL EVALUATOR NUMBER SE338

INDICATES PERC INDICATES OBSERVED = GROUNDWATER

TEST BY: PATRICK CARRARA WITNESSED BY: JOHN MCVEIGH

CERTIFIED	BY:	NONE		-
DEPTH (IN)	SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	0
0-7	AP	10YR 3/2	SANDY LOAM	
7-20	BW	10YR 5/8	LOAMY SAND	
20-60	C1	2.5Y 6/4	SAND	2
60-77	C2	5YR 5/3	SANDY LOAM	<u>_</u>
77-120	СЗ	2.5YR 5/	SANDY LOAM	
120-135	C4	5YR 5/2	LOAMY SAND	

PERC RATE _____ MIN/INCH *APPROVED SOIL EVALUATOR NUMBER SE338

OBSERVATION HOLE DATA (DRAINAGE TEST PITS)

TEST PIT # 3A GRD. EL. __156.5 GW. EL. 153.2 DATE: 5-29-19 MOTTLES @ 153.2

RTIFIED	BY:	NONE	-	-
EPTH (IN)	SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER
0-7	AP	10YR 3/2	SANDY LOAM	
7-20	BW	10YR 5/8	LOAMY SAND	
0-60	C1	2.5Y 6/4	SAND	20"-38"
0-77	C2	5YR 5/3	SANDY LOAM	MOTTLES AT 40"
7-120	СЗ	2.5YR 5/	SANDY LOAM	
0-135	C4	5YR 5/2	LOAMY SAND	
FPING (7)	66"		

*APPROVED SOIL EVALUATOR NUMBER SE338

OBSERVATION HOLE DATA

INDICATES PERC INDICATES OBSERVED TEST PIT # 3B GRD. EL. __155.7

GW. EL. 152.0 DATE: 5-29-19 MOTTLES @ 152.0 TEST BY: PATRICK CARRARA WITNESSED BY: JOHN MCVEIGH CERTIFIED BY: NONE

= GROUNDWATER

*APPROVED SOIL EVALUATOR NUMBER SE338

(DRAINAGE TEST PITS)

INDICATES PERC INDICATES OBSERVED

= GROUNDWATER

GW. EL. 146.65

BI:	NONE		
SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER
AP	10YR 3/2	SANDY LOAM	
BW	10YR 5/6	LOAMY SAND	
C1	2.5Y 5/4	SAND	12"-30"
C2	5YR 5/3	SANDY LOAM	MOTTLES AT 44"
R	-	REFUSAL	
	SOIL HORZ. AP BW C1	SOIL SOIL COLOR AP 10YR 3/2 BW 10YR 5/6 C1 2.5Y 5/4 C2 5YR 5/3	SOIL SOIL TEXTURE AP 10YR 3/2 SANDY LOAM BW 10YR 5/6 LOAMY SAND C1 2.5Y 5/4 SAND C2 5YR 5/3 SANDY LOAM

WEEPING @ 54" PERC RATE 4 MIN/INCH *APPROVED SOIL EVALUATOR NUMBER SE338

OBSERVATION HOLE DATA (DRAINAGE TEST PITS)

INDICATES PERC INDICATES OBSERVED GROUNDWATER TEST PIT # 7 GRD. EL. 155.9

GW. EL. ___153.9____ DATE: 6-19-18 MOTTLES @ 153.9 TEST BY: PATRICK CARRARA WITNESSED BY: EXPLORATORY SOIL TESTING CERTIFIED BY. MONE

CERTIFIEL	BY:	NONE		
DEPTH (IN)	SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER
0-10	AP	10YR 3/2	SANDY LOAM	-
10-21	BW	10YR 5/6	SANDY LOAM	
21-42	C1	2.5Y 6/4	LOAMY SAND	
42-63	C2	2.5Y 6/2	SANDY LOAM	
63-98	СЗ	5Y 6/2	SILT	
98-110	C4	10YR 5/4	SANDY LOAM	
WEEDING	<u>a</u>	08"		5

WEEPING @ _____98"____ PERC RATE _____N/A __MIN/INCH *APPROVED SOIL EVALUATOR NUMBER SE338

OBSERVATION HOLE DATA (DRAINAGE TEST PITS)

INDICATES PERC INDICATES OBSERVED = GROUNDWATER TEST PIT # A GRD. EL. __164.0____

GW. EL. 152.0-DATE: 10-17-19 MOTTLES @ NONE TEST BY: GREGORY DRISCOLL, JR. P.E. WITNESSED BY:

CERTIFIE	BA:	NONE		
DEPTH (IN)	SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER
0-12	AP	10YR 3/4	SANDY LOAM	
12-18	BW	10YR 5/6	LOAMY SAND	
18-60	C1	2.5Y 6/3	FINE SAND	
60-144	C2	2.5Y 6/2	LOAMY SAND	

PERC RATE _____N/A __MIN/INCH *APPROVED SOIL EVALUATOR NUMBER SE2816

(DRAINAGE TEST PITS) NDICATES PERC ✓ INDICATES OBSERVED

OBSERVATION HOLE DATA

= GROUNDWATER TEST PIT # 8 GRD. EL. __156.7 GW. EL. 154.0 DATE: 6-19-18 MOTTLES @ 154.0 TEST BY: PATRICK CARRARA WITNESSED BY: EXPLORATORY SOIL TESTING CERTIFIED BY: NONE

CERTIFIED	DI:	NONE		
DEPTH (IN)	SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER
0-9	AP	10YR 3/3	SANDY LOAM	
9-25	BW	7.5YR 5/8	LOAMY SAND	
25-46	BG	7.5YR 6/4	LOAMY SAND	
46-69	C1	5Y 5/3	SANDY LOAM	
69-100	C2	5Y 6/2	SILT LOAM	
100-108	СЗ	2.5Y 5/3	SAND	
		100"	A	

WEEPING @ _____100"____ PERC RATE _____N/A __MIN/INCH

*APPROVED SOIL EVALUATOR NUMBER SE338

OBSERVATION HOLE DATA (DRAINAGE TEST PITS)

INDICATES PERC INDICATES OBSERVED = GROUNDWATER

GW. EL. WITNESSED BY

CERTIFIED		NONE		
DEPTH (IN)	SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER
0-12	AP	10YR 3/4	SANDY LOAM	
12-20	BW	10YR 5/6	LOAMY SAND	
20-48	C1	2.5Y 6/3	FINE SAND	
48-136	C2	2.5Y 5/3	LOAMY SAND	

WEEPING @ N/A PERC RATE _____N/A __MIN/INCH *APPROVED SOIL EVALUATOR NUMBER SE2816

TEST PIT # B GRD. EL. ___164.0

DATE: 10-17-19 MOTTLES @ NONE TEST BY: GREGORY DRISCOLL, JR. P.E.

0-12 AP 10YR 3/4 SANDY 12-20 BW 10YR 5/6 LOAMY 20-48 C1 2.5Y 6/3 FINE SAND 48-136 C2 2.5Y 5/3 LOAMY SAND	DEPTH (IN)	SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER
12-20 BW 10YR 5/6 SAND 20-48 C1 2.5Y 6/3 FINE SAND			10YR 3/4		
20-48 C1 2.51 6/3 SAND	12-20	BW	10YR 5/6		
	20-48	C1	2.5Y 6/3		
	48-136	C2	2.5Y 5/3		

AUGUST 27, 2019

Jacobs Driscoll Engineering

TOWN OF MILLIS

PLANNING BOARD

2/11/2020

APPROVAL BY THE PLANNING BOARD OF THIS

INDICATE THAT A DETERMINATION HAS ALSO

BEEN MADE THAT THE LOTS CREATED ARE IN

COMPLIANCE WITH THE ZONING ORDINANCE OF THE TOWN OF MILLIS AND ARE BUILDABLE LOTS

REVISIONS

"RIVENDELL WOODS"

Land Court Plan of Land

Being A Definitive Subdivision

of Lot 65 on

Land Court Plan No. 15728^O

CONSTRUCTION

DETAILS

0 CAUSEWAY STREET

IN

MILLIS

(NORFOLK COUNTY)

MASSACHUSETTS

PREPARED FOR:

STEPHEN SILVER

227 CAUSEWAY STREET

MILLIS

MASSACHUSETTS

02054

DESCRIPTION

PER REVIEW COMMENTS

PLAN AS SUBMITTED AS A DEFINITIVE SUBDIVISION IN NO WAY IS INTENDED TO

No. DATE

10-28-2019

11-11-2019

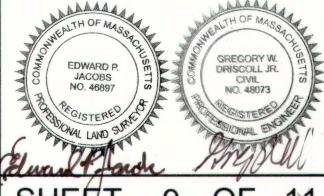
3 12-6-2019

4 12-13-2019

5 01-09-2020

UNDER THE SUBDIVISION CONTROL

Phone: 508-928-4400 www.JacobsDriscoll.com



JOB NUMBER:

PERC RATE _____N/A __MIN/INCH *APPROVED SOIL EVALUATOR NUMBER SE2816

OBSERVATION HOLE DATA (DRAINAGE TEST PITS)

NDICATES PERC

✓ INDICATES OBSERVED = GROUNDWATER

> TEST PIT # D GRD. EL. 155.8 DATE: 10-17-19 MOTTLES @ 153.8

	CERTIFIED	BY:	NONE		
-	DEPTH (IN)	SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER
or other Designation of the last of the la	0-12	AP	10YR 3/2	SANDY LOAM	
And the last of th	12-24	BW	10YR 5/6	SANDY LOAM	
	24-40	C1	2.5Y 6/3	LOAMY	MOTTLES AT 24"
	40-62	C2	2.5Y 6/2	SANDY LOAM	
	62-100	С3	5Y 6/2	SILT	
	100-120	C4	10YR 5/4	SANDY LOAM	

WEEPING @ N/A *APPROVED SOIL EVALUATOR NUMBER SE2816

OBSERVATION HOLE DATA (DDAINACE TEST DITS)

*APPROVED SOIL EVALUATOR NUMBER SE2816

(DRAINAGE LEST PITS)	1
INDICATES PERC INDICATES OBSERVED GROUNDWATER	
TEST PIT # E GRD. EL155.8 GW. EL153.7	
DATE: 10-17-19 MOTTLES @ 153.7	
TEST BY: GREGORY DRISCOLL, JR. P.E.	l

SOIL SOIL SOIL OTHER 0-12 AP 10YR 3/2 SANDY 12-22 BW 10YR 5/6 SANDY 22-40 C1 2.5Y 6/3 LOAMY SAND AT 2 40-64 C2 2.5Y 6/2 SANDY 64-97 C3 5Y 6/2 SILT 97-128 C4 10YR 5/4 SANDY

WEEPING @ 126"

NDICATES PERC

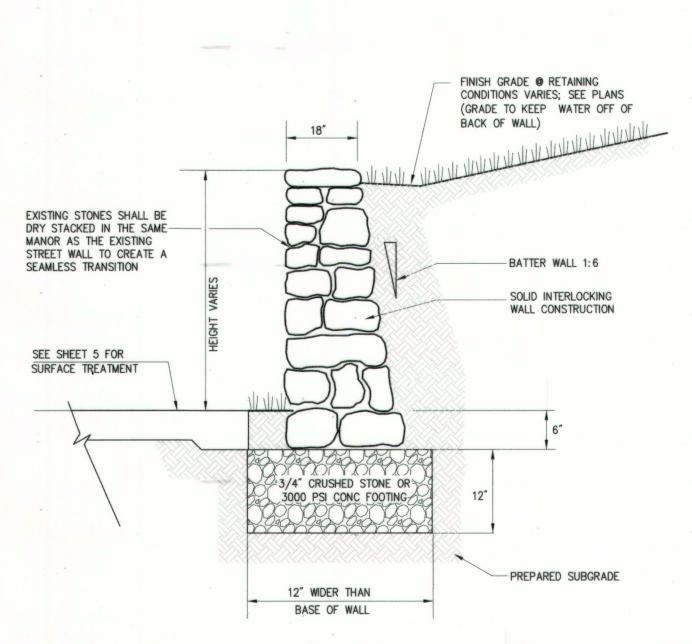
✓ INDICATES OBSERVED = GROUNDWATER

GW. EL. ___153.8 TEST BY: GREGORY DRISCOLL, JR. P.E. WITNESSED BY: ____

	CERTIFIED	BI:	NONE		
	DEPTH (IN)	SOIL HORZ.	SOIL COLOR	SOIL TEXTURE	OTHER
-	0-12	AP	10YR 3/2	SANDY LOAM	
-	12-24	BW	10YR 5/6	SANDY LOAM	
	24-40	C1	2.5Y 6/3	LOAMY	MOTTLES AT 24"
	40-62	C2	2.5Y 6/2	SANDY LOAM	
	62-100	С3	5Y 6/2	SILT	
	100-120	C4	10YR 5/4	SANDY LOAM	
1					

PERC RATE _____N/A__MIN/INCH

EST PIT # E	GRD. EL.	155.8	
	GW. EL.	153.7	
ATE: 10-17-19	MOTTLES	@ _15.	3.7
ST BY: GREGORY	DRISCOLI	, JR. P.E	
TNESSED BY:			
ERTIFIED BY: N	ONE		



FIELD STONE WALL (Dry set)

JDE

- GRASS STRIP PROPOSED SIDEWALK PORTION OF THE EXISTING STONE WALL TO BE REMOVED AS NEEDED FOR NEW ENTRANCE. THE-STONES WILL BE STACKED AND STORED ON SITE DURING CONSTRUCTION. THE CONTRACTOR WILL DRY STACK THE WALL IN THE NEW LOCATION AS SHOWN ON SHEET 5. THE STONE WALL SHALL BE INSTALLED EXACTLY IN THE SAME MANOR AS THE EXISTING WALL TO CREATE A SEAMLESS TRANSITION.

FIELD STONE WALL ENTRANCE DETAIL

50 Oliver Street, Suite 101 North Easton, Massachusetts 02356

2018-079

I CERTIFY THAT AS OF THE DATE OF THIS SURVEY, THE MONUMENTS CONTROLLING PRIOR PLANS ARE IN THE GROUND AS SHOWN AND DESCRIBED HEREON. I FURTHER CERTIFY THAT ANY ADDITIONAL MONUMENTS SHOWN HEREON HAVE BEEN SET IN ACCORDANCE WITH THE LAND COURT INSTRUCTIONS OF 2006 AS OF THE DATE OF THIS SURVEY.

REGISTERED PROFESSIONAL LAND SURVEYOR 2020

I CERTIFY THAT THIS PLAN WAS DRAWN FROM AN ACTUAL SURVEY MADE ON THE GROUND IN ACCORDANCE WITH THE LAND COURT INSTRUCTIONS OF 2006 ON OR BETWEEN JUNE 7, 2019 AND JULY 7, 2019.

I CERTIFY THAT THE LOTS SHOWN ON THIS PLAN HAVE FRONTAGE ON A PUBLIC WAY THAT WAS SHOWN ON A PREVIOUS PLAN (9038C) APPROVED IN ACCORDANCE WITH THE SUBDIVISION CONTROL LAW, OF AT LEAST SUCH DISTANCE, IF ANY, AS IS THEN REQUIRED BY ORDINANCE OR BY-LAW OF SAID TOWN OF MILLIS FOR ERECTION OF A BUILDING ON SUCH LOT, AND IF NO DISTANCE IS SO REQUIRED, HAS SUCH FRONTAGE OF AT LEAST TWENTY FEET.

REGISTERED PROFESSIONAL LAND SURVEYOR 02 05 2020

1. ZONING DISTRICT: RESIDENTIAL (R-S) MINIMUM ZONING REQUIREMENTS MIN. LOT AREA = 25,000 S.F. MIN. LOT FRONTAGE = 125' MIN. BUILDING SETBACKS: FRONT = 40' SIDE = 20' REAR = 40'

GENERAL NOTES:

2. LOCUS PROPERTY IS COMPRISED OF: ASSESSOR'S MAP 15 PLOT 55 LAND COURT CERTIFICATES: 152669 AND 152671 OWNER OF RECORD: STEPHEN & CHIZUKO SILVER

PLAN REFERENCES: P-1.) LAND COURT PLAN 15728 AND 15728

4. COMMUNITY PANEL NUMBER 25021C0161 E THE FLOOD INSURANCE RATE MAP DEFINES THIS AREA AS ZONE X, AREAS OUTSIDE THE 0.2% CHANCE ANNUAL FLOOD.

5.) THE PROPERTY LINE INFORMATION SHOWN IS BASED ON CURRENT AVAILABLE RECORD INFORMATION CONSISTING OF PLANS AND DEEDS AND AN ACTUAL ON THE GROUND FIELD SURVEY PERFORMED BY THIS FIRM ON AND BETWEEN JUNE 7, 2019 AND JULY 7, 2019.

WAIVER REQUESTS:

TABLE 1 GEOMETRIC DESIGN STANDARDS: FROM THE PAVEMENT WIDTH REQUIREMENT FOR A TYPE SECONDARY STREET FROM 26' WIDE TO 22'

5.1.2 CROSS SECTIONS: FROM THE STANDARD CROSS SECTION, FIGURE 1A, TO THE CROSS SECTION AS SHOWN ON SHEET 7.

5.4.2 SIDEWALKS: FROM THE REQUIREMENT TO HAVE SIDEWALKS ON BOTH SIDES OF THE ROADWAY, TO A SIDEWALK ON ONE SIDE OF THE

5.5.3 SHADE TREES: FROM THE REQUIREMENT TO INSTALL SHADE TREES ON BOTH SIDES OF THE ROADWAY TO ONE SIDE OF THE ROADWAY.

5.10 STREET LIGHTING: FROM THE REQUIREMENT TO INSTALL LIGHTING ALONG ALL STREETS TO AT THE INTERSECTION AND DRIVEWAY LIGHTS ON

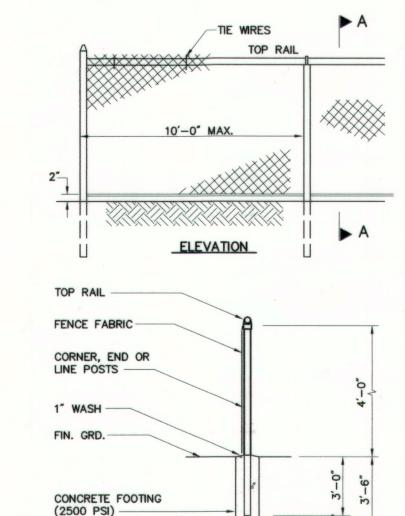
5.11 FIRE ALARM & POLICE CALL BOXES: FROM THE REQUIREMENT TO PROVIDE FIRE ALARM AND/OR POLICE CALL BOXES.

I CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE MILLIS PLANNING AND ZONING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE ON

AND NO NOTICE OF APPEAL HAS BEEN RECEIVED

DURING THE TWENTY (20) DAYS NEXT AFTER

DETAIL # 169



SECTION

. PULL POSTS SHALL BE SPACED AT INTERVALS NOT EXCEEDING 500 FEET.

. END, GATE AND CORNER POSTS SHALL BE BRACED TO ADJACENT LINE POSTS. (MORE THAN 30° CHANGE IN DIRECTION

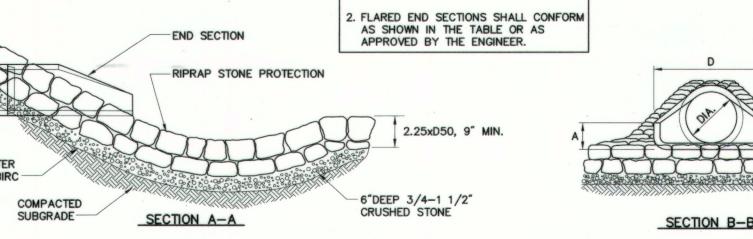
CONSTITUTES A CORNER) FABRIC SHALL BE 0.148" WRE, WOVEN INTO APPROXIMATELY 1-1/2" DIAMOND MESH.

- 4. ZINC-COATED STEEL FABRIC BASE METAL SHALL BE COATED WITH PRIME WESTERN SPELTER OR EQUASL.
- 5. ALUMINUM COATED STEEL FABRIC BASE METAL SHALL BE COATED WITH ALUMINUM ALLOY.
- 6. FENCE POSTS AND RAILS SHALL RECEIVE THE SAME COATING AND TREATMENT AS THE FENCE FABRIC (DESCRIBED ABOVE).

7. SEE SPECIFICATIONS FOR POST

THE FLARED END SECTION PIPE JOINT SHALL BE SIMILAR TO THE MAIN RUN OF PIPE JOINTS. END SECTION -RIPRAP STONE PROTECTION 2.25xD50, 9" MIN. 6"DEEP 3/4-1 1/2" CRUSHED STONE SECTION A-A

RIPRAP APRON SIZING TABLE APRON LENGTH OUTLET 3Do La 3' 18' 6" 16' 4' 18' 6" 16' 8" 16' 5' 18' 6" 16' 6'



5:1 MIN. TO

SECTION B-B

CHAIN LINK FENCE (CLF) DETAIL # 806

10" DIA. @ LINE POSTS

OR 1'-4" @ CORNER

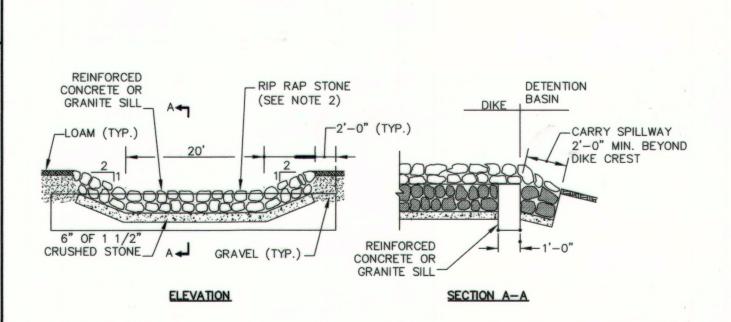
OR END POSTS -

DETAIL # 114

DETAIL # 127

FLARED END SECTION W/ STONE PROTECTION

4'-0" O.C.

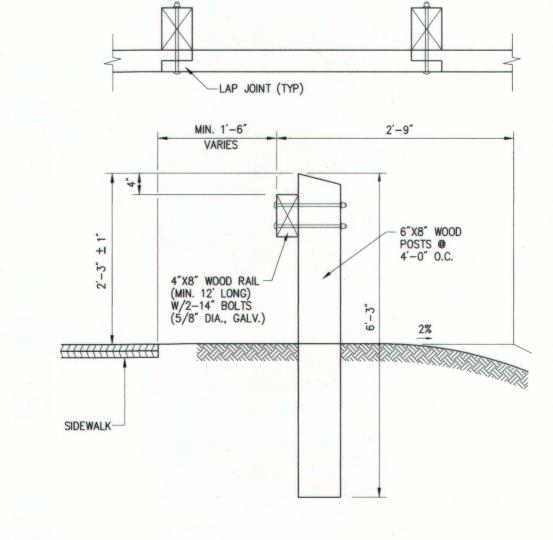


1. DIMENSIONS VARY TO SUIT CAPACITY REQUIREMENTS 2. RIP RAP TO BE HAND CHINKED WITH A SMOOTH SURFACE ALONG THE TOP OF THE DIKE AND A ROUGH SURFACE

STONE TO MEET M2.02.3 REQUIREMENTS.

ALONG THE DOWNSTREAM FACE AND TOE OF THE DIKE.

BIO-RETENTION/ WATER SWALE 1% SLOPE SLOPE BIT. CONC. PAVEMENT SEE TYPICAL BITUMINOUS PAVING - 1 1/2" CRUSHED COMPACTED SUBGRADE



SPILLWAY DETAIL

STONE DIAPHRAGM STRIP

DETAIL # 801

TIMBER GUARD RAIL

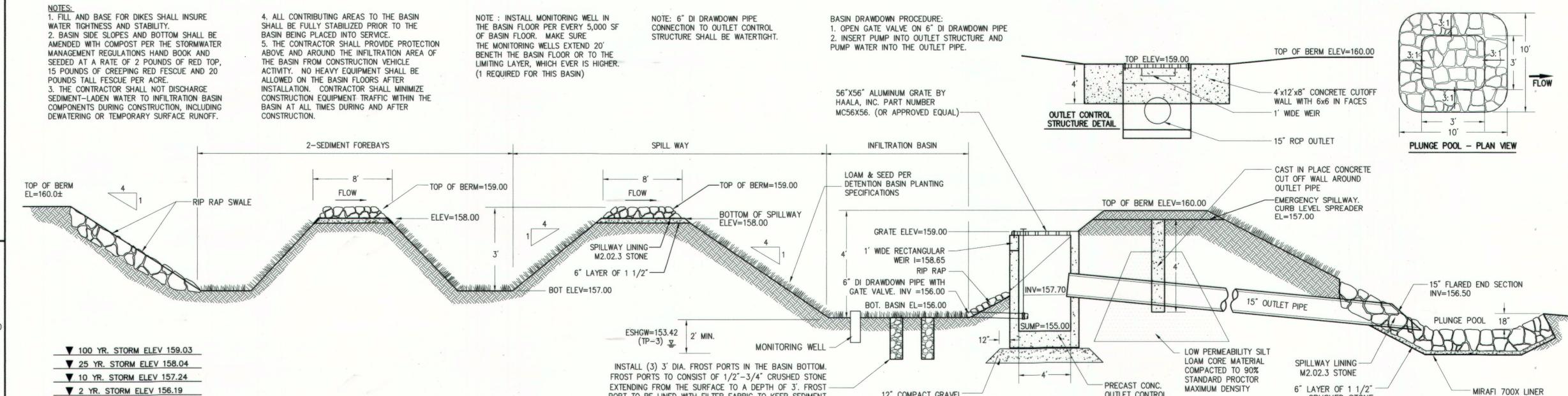
OUTLET CONTROL

STRUCTURE

SECTION

CRUSHED STÓNE

OR EQUAL



OUT OF THE PORT.

PORT TO BE LINED WITH FILTER FABRIC TO KEEP SEDIMENT

TOWN OF MILLIS PLANNING BOARD THE SUBDIVISION CONTROL

APPROVAL BY THE PLANNING BOARD OF THIS PLAN AS SUBMITTED AS A DEFINITIVE SUBDIVISION IN NO WAY IS INTENDED TO INDICATE THAT A DETERMINATION HAS ALSO BEEN MADE THAT THE LOTS CREATED ARE IN COMPLIANCE WITH THE ZONING ORDINANCE OF THE TOWN OF MILLIS AND ARE BUILDABLE LOTS.

REVISIONS			
No.	DATE	DESCRIPTION	
1	10-28-2019	PER REVIEW COMMENTS	
2	11-11-2019	PER REVIEW COMMENTS	
3	12-6-2019	PER REVIEW COMMENTS	
4	12-13-2019	PER REVIEW COMMENTS	
5	01-09-2020	PER REVIEW COMMENTS	

"RIVENDELL WOODS" Land Court Plan of Land Being A Definitive Subdivision of Lot 65 on Land Court Plan No. 15728^O

CONSTRUCTION **DETAILS**

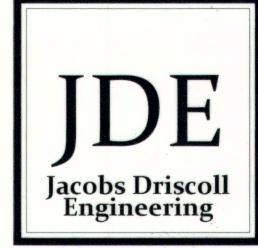
0 CAUSEWAY STREET **MILLIS** (NORFOLK COUNTY)

AUGUST 27, 2019

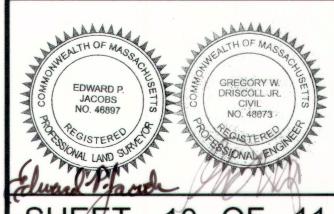
MASSACHUSETTS

PREPARED FOR:

STEPHEN SILVER 227 CAUSEWAY STREE **MILLIS MASSACHUSETTS** 02054



50 Oliver Street, Suite 101 North Easton, Massachusetts 02356 Phone: 508-928-4400 www.JacobsDriscoll.com



JOB NUMBER:

2018-079

SEDIMENT FOREBAY AND INFILTRATION BASIN SECTION (POND-2A)

12" COMPACT GRAVEL-

BORROW TYPE C

CERTIFY THAT AS OF THE DATE OF THIS SURVEY, THE MONUMENTS CONTROLLING PRIOR PLANS ARE IN THE GROUND AS SHOWN AND DESCRIBED HEREON. I FURTHER CERTIFY THAT ANY ADDITIONAL MONUMENTS SHOWN HEREON HAVE BEEN SET IN ACCORDANCE WITH THE LAND COURT INSTRUCTIONS OF 2006 AS OF THE DATE OF THIS SURVEY.

Folward P. Jacobs REGISTERED PROFESSIONAL LAND SURVEYOR 02/05/2020

I CERTIFY THAT THIS PLAN WAS DRAWN FROM AN ACTUAL SURVEY MADE ON THE GROUND IN ACCORDANCE WITH THE LAND COURT INSTRUCTIONS OF 2006 ON OR BETWEEN JUNE 7, 2019 AND JULY 7, 2019.

REGISTERED PROFESSIONAL LAND SURVEYOR

02/05/ 2020

I CERTIFY THAT THE LOTS SHOWN ON THIS PLAN HAVE FRONTAGE ON A PUBLIC WAY THAT WAS SHOWN ON A PREVIOUS PLAN (9038C) APPROVED IN ACCORDANCE WITH THE SUBDIVISION CONTROL LAW, OF AT LEAST SUCH DISTANCE, IF ANY, AS IS THEN REQUIRED BY ORDINANCE OR BY-LAW OF SAID TOWN OF MILLIS FOR ERECTION OF A BUILDING ON SUCH LOT, AND IF NO DISTANCE IS SO REQUIRED, HAS SUCH FRONTAGE OF AT LEAST TWENTY FEET.

DETAIL # 001

DETAIL # 602

DETAIL # 901

REGISTERED PROFESSIONAL LAND SURVEYOR

02/05/2020

GENERAL NOTES:

 ZONING DISTRICT : RESIDENTIAL (R-S) MINIMUM ZONING REQUIREMENTS MIN. LOT AREA = 25,000 S.F. MIN. LOT FRONTAGE = 125' MIN. BUILDING SETBACKS: FRONT = 40' SIDE = 20' REAR = 40'

2. LOCUS PROPERTY IS COMPRISED OF: ASSESSOR'S MAP 15 PLOT 55 LAND COURT CERTIFICATES: 152669 AND 152671 OWNER OF RECORD: STEPHEN & CHIZUKO SILVER

PLAN REFERENCES: P-1.) LAND COURT PLAN 15728 AND 15728

4. COMMUNITY PANEL NUMBER 25021C0161 E THE FLOOD INSURANCE RATE MAP DEFINES THIS AREA AS ZONE X, AREAS OUTSIDE THE 0.2% CHANCE ANNUAL FLOOD.

5.) THE PROPERTY LINE INFORMATION SHOWN IS BASED ON CURRENT AVAILABLE RECORD INFORMATION CONSISTING OF PLANS AND DEEDS AND AN ACTUAL ON THE GROUND FIELD SURVEY PERFORMED BY THIS FIRM ON AND BETWEEN JUNE 7, 2019 AND JULY 7, 2019.

WAIVER REQUESTS:

TABLE 1 GEOMETRIC DESIGN STANDARDS: FROM THE PAVEMENT WIDTH REQUIREMENT FOR A TYPE SECONDARY STREET FROM 26' WIDE TO 22'

5.1.2 CROSS SECTIONS: FROM THE STANDARD CROSS SECTION, FIGURE 1A, TO THE CROSS SECTION AS SHOWN ON SHEET 7.

5.4.2 SIDEWALKS: FROM THE REQUIREMENT TO HAVE SIDEWALKS ON BOTH SIDES OF THE ROADWAY, TO A SIDEWALK ON ONE SIDE OF THE ROADWAY.

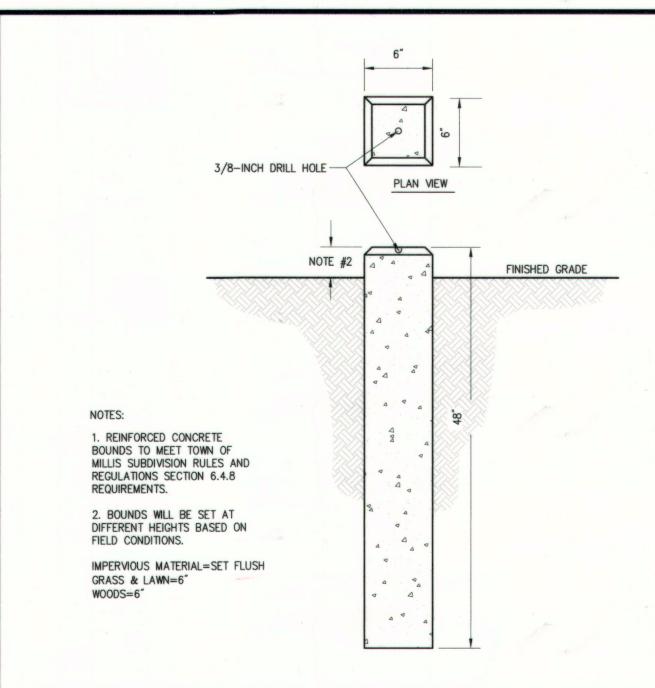
5.5.3 SHADE TREES: FROM THE REQUIREMENT TO INSTALL SHADE TREES ON BOTH SIDES OF THE ROADWAY TO ONE SIDE OF THE ROADWAY.

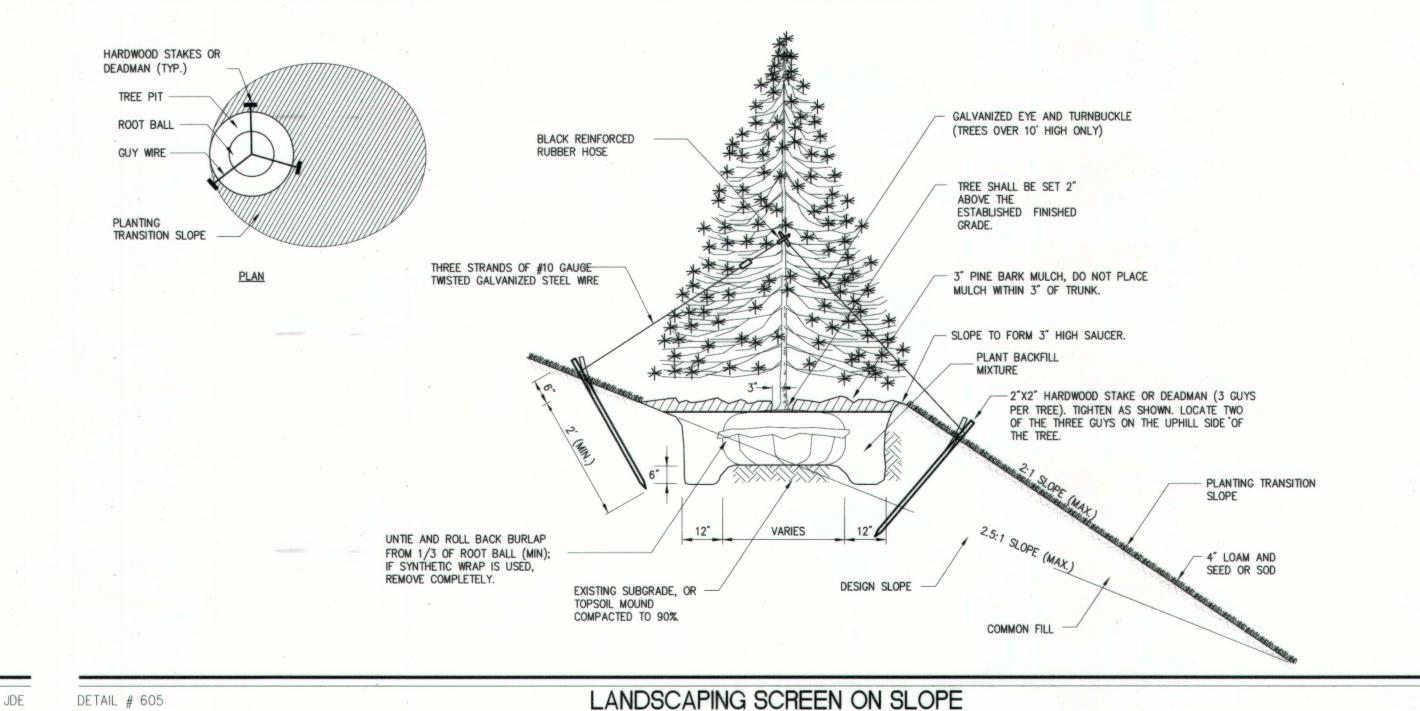
5.10 STREET LIGHTING: FROM THE REQUIREMENT TO INSTALL LIGHTING ALONG ALL STREETS TO AT THE INTERSECTION AND DRIVEWAY LIGHTS ON

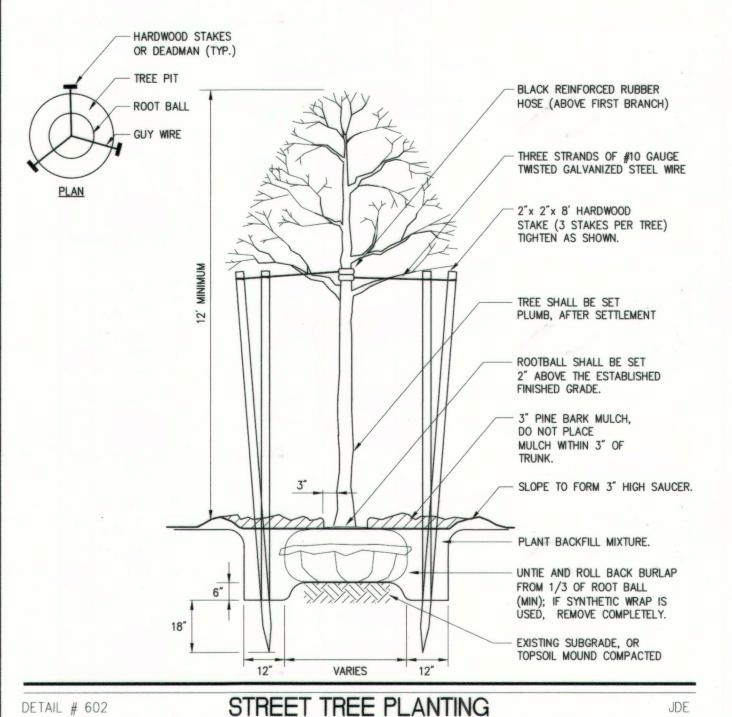
5.11 FIRE ALARM & POLICE CALL BOXES: FROM THE REQUIREMENT TO PROVIDE FIRE ALARM AND/OR POLICE CALL BOXES.

I CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE MILLIS PLANNING AND ZONING BOARD HAS BEEN RECEIVED AND

DURING THE TWENTY (20) DAYS NEXT AFTER







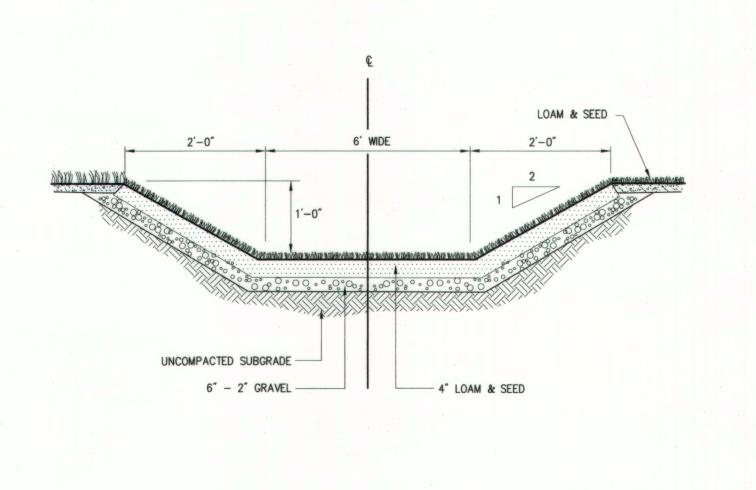
PRECAST REINFORCED CONC. BOUND

CAST-IN-PLACE 3000 CONC. ENCASEMENT PSI CONCRETE (TYPE I) NOT REQUIRED IF ENCASEMENT CLEAR DISTANCE BETWEEN PIPES IS GREATER THAN 18" SEE PLANS FOR - INVERT OF COMPACTED SEWER PIPE SUBGRADE " THICK SHEET -CONCRETE TO BE POLYURETHANE SUPPORT PIPE ON PLACED AGAINST INSULATION CUT AND CONCRETE BLOCK UNDISTURBED EARTH PIPE INSULATION WIRED IN PLACE BOTTOM-WHEN PLACING OR SHEETING IF THE AROUND PIPE **ENCASEMENT** SHEETING IS TO PIPE CROSSING REMAIN IN PLACE. -SURFACE TREATMENT (VARIES) PIPE INSULATION NOTE SEWER LINE SHALL BE INSULATED WHEN MINIMUM . 88. COVER AS REQUIRED CANNOT BE ACHIEVED. MINIMUM COVER ORDINARY REQUIREMENT SHALL BE BORROW DETERMINED BY THE MORE RESTRICTIVE REGULATION, LOCAL PIPE CROSSING NOTE BACKFILL PIPE MUST BE BRACED -HAND TAMPED VERTICALLY & HORIZONTALLY HAUNCHING TO PREVENT FLOATATION DURING PLACEMENT OF CONC. - COMPACTED COMPACTED STANDARD TRENCH SUBGRADE

COMMON FILL/

ORDINARY BORROW

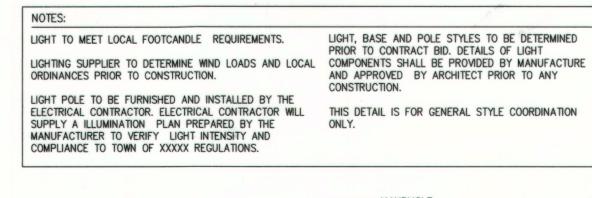
DETAIL # 605

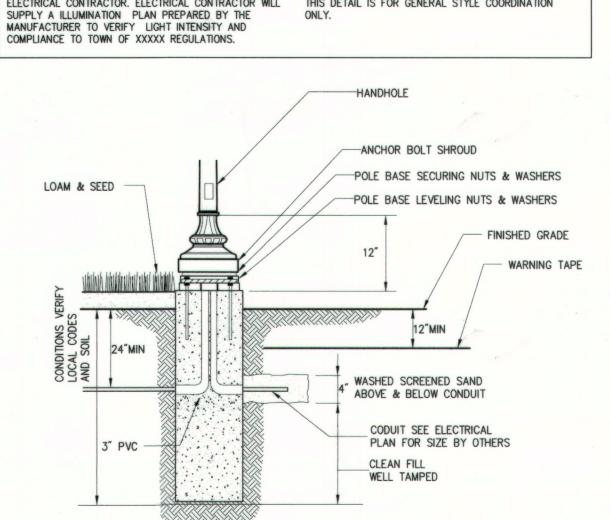


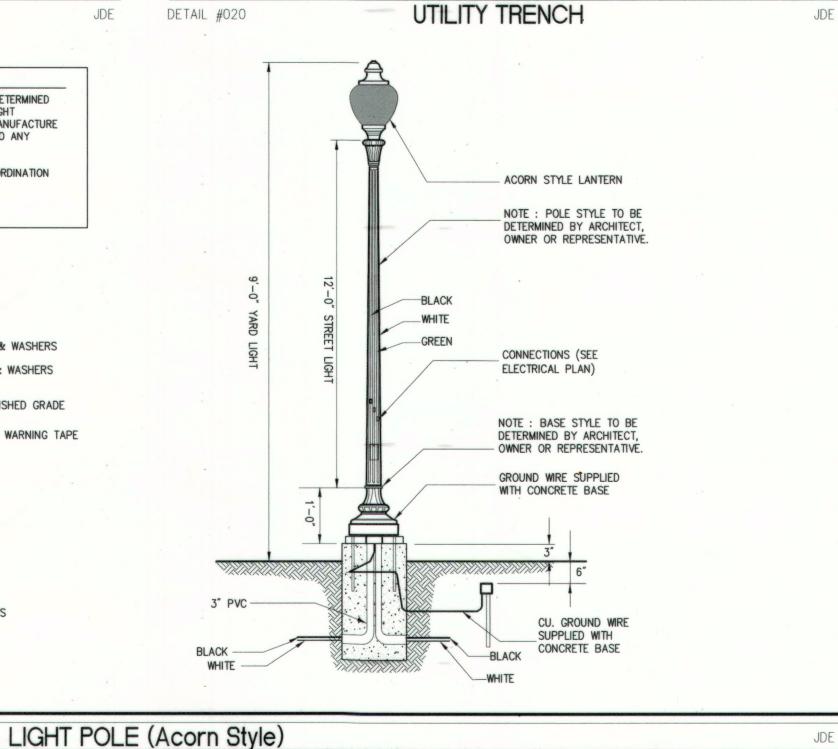
GRASS INFILTRATION SWALE

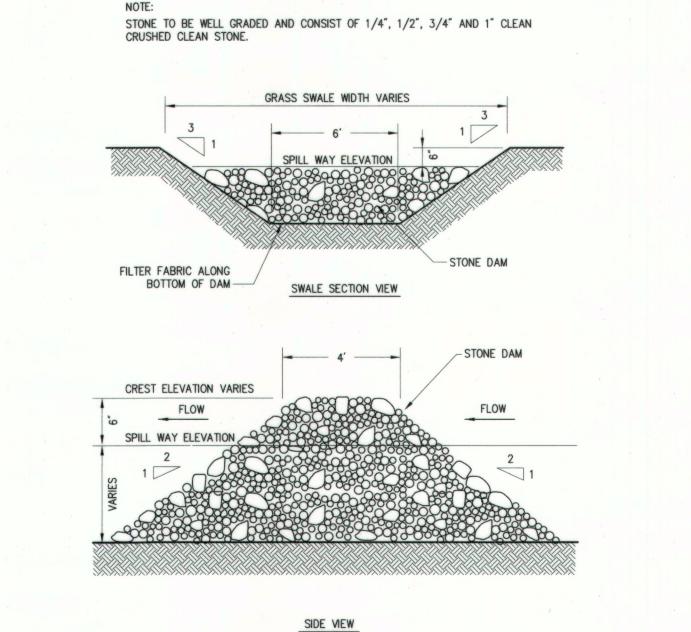
DETAIL # 134

JDE









STONE CHECK DAM DETAIL # 165

TOWN OF MILLIS PLANNING BOARD ER THE SUBDIVISION CONTROL 2/11/2020

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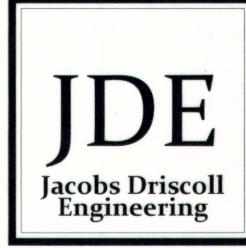
CONSTRUCTION **DETAILS** 0 CAUSEWAY STREET

MILLIS (NORFOLK COUNTY) MASSACHUSETTS

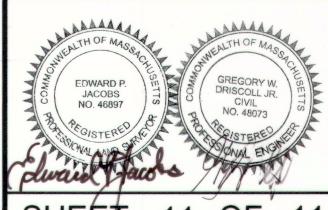
PREPARED FOR:

AUGUST 27, 2019

STEPHEN SILVER 227 CAUSEWAY STREET **MILLIS MASSACHUSETTS** 02054



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JOB NUMBER:

2018-079