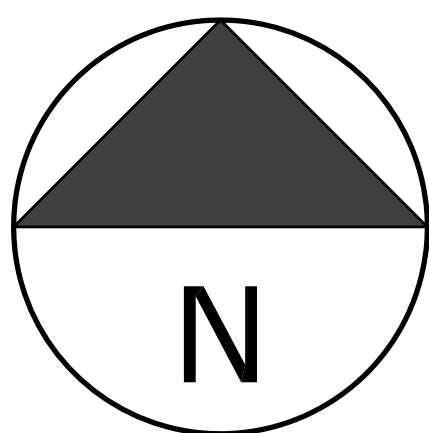


Site Development Plan

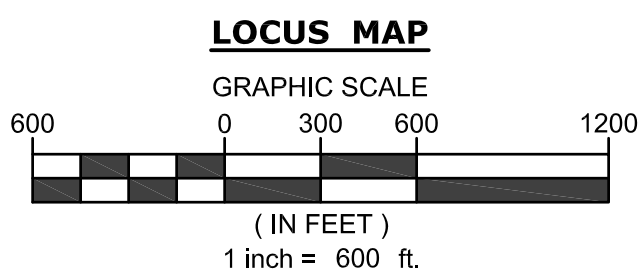
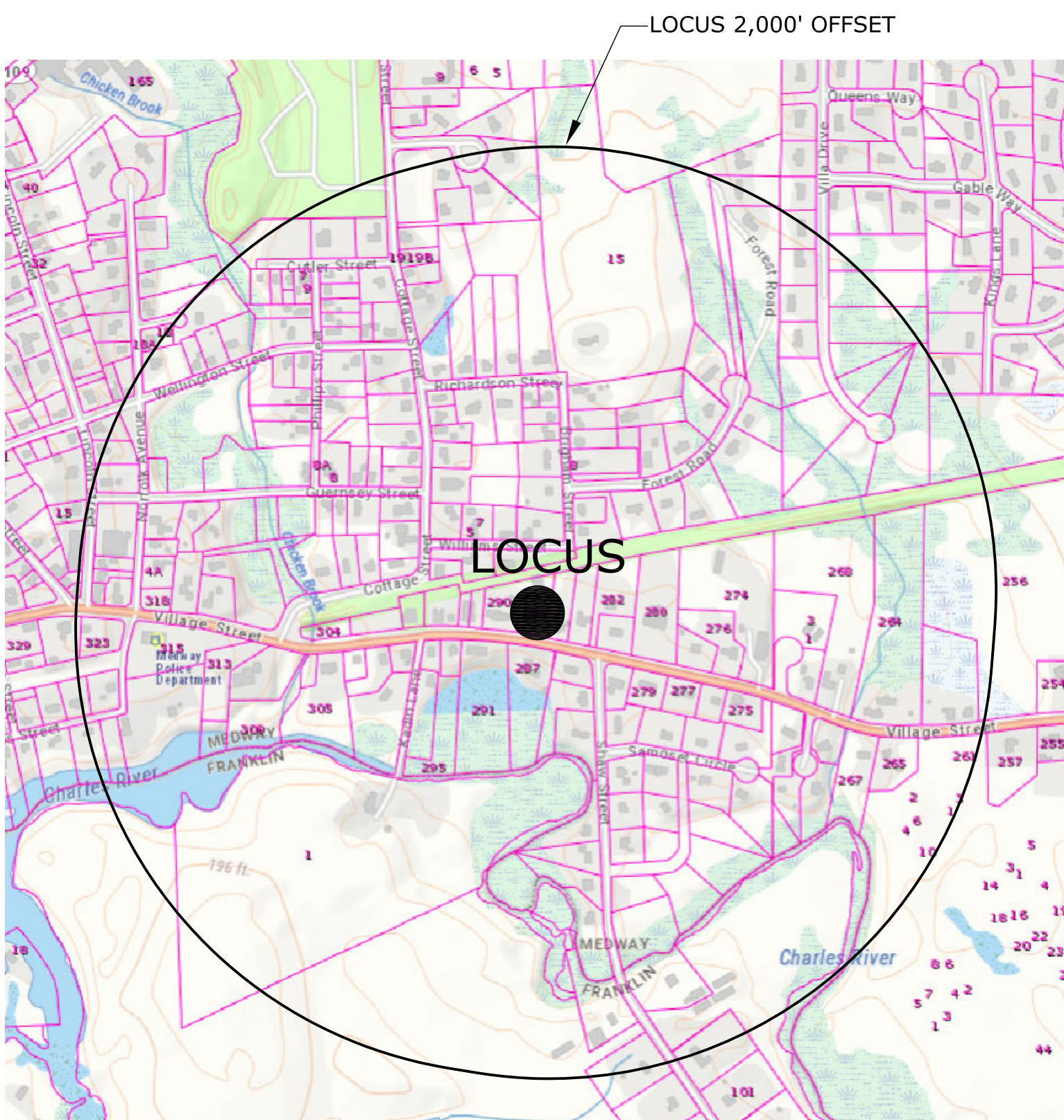
MULTI-FAMILY BUILDING

300' ABUTTERS SCHEDULE		
MAP PARCEL ID	SITE ADDRESS	OWNER*
58-094	6 WILLIAMS ST	LUZETTI RICARDO A JR
58-074	4 BRIGHAM ST	HOPKINS STEPHEN E
58-100	295 VILLAGE ST	RYAN KEVIN
68-010	4 SHAW ST	MANHNKS DANIEL F
58-105	2 SHAW ST	BRANIGAN MARK E
58-081	284 VILLAGE ST	BARRIOS BLANCA ROSA
58-103	287 VILLAGE ST	POWER MICHAEL F
58-082	286 VILLAGE ST	BOUTLER MEGHAN
58-075	2 BRIGHAM ST	GRAY ROBERT A
58-065	11 WILLIAMS ST	MAHONEY CHRISTOPHER J
58-092	41 COTTAGE ST	GALLIHER PETER F
58-101	293 VILLAGE ST	KAIRIT VIRGINIA B LIFE ESTATE
58-079	282 A VILLAGE ST	HUGHES JANE D
58-095	281 VILLAGE ST	HANDVERGER LIFE ESTATE RICHARD A
58-087	294 VILLAGE ST	KELLEY LIFE ESTATE BRENDA J
58-104	283 VILLAGE ST	JOHNSON CYNTHIA DENISE
58-086	292 VILLAGE ST	NEW ENGLAND TELEPHONE COMPANY
58-102	291 VILLAGE ST	PRATT KEVIN C
51-026	0 VILLAGE ST	MEDWAY TOWN OF
58-085	292 VILLAGE ST	NEW ENGLAND TELEPHONE COMPANY
58-093	4 WILLIAMS ST	SKELTON LEE S
58-066	9 WILLIAMS ST	GOLDEN JOHN R
58-067	7 WILLIAMS ST	HEAVEY MICHAEL J.
58-080	282 VILLAGE ST	MACSWAIN DAVID A
58-084	290 VILLAGE ST	LELAND TONY J SR
58-083	288 VILLAGE ST	LELAND TONY J SR

* NOW OR FORMERLY



ABUTTERS LOCUS MAP
1" = 200'



WAIVER REQUESTS INVENTORY

TITLE & NUMBER	REQUIREMENT	REQUEST
Site Plan Rules & Regulations Chapter 200 Section 204-3 F. 1	Full Traffic Impact Assessment	Limit assessment to provided sight distance and trip generation
Site Plan Rules & Regulations Chapter 200 Section 204-3 F. 2	Full Environmental Impact Assessment	Limit to stormwater report
Site Plan Rules & Regulations Chapter 200 Section 204-3 F. 3	Neighborhood Impact Assessment	Eliminate (development is consistent with neighborhood)
Site Plan Rules & Regulations Chapter 200 Section 204-5 D. 15	Lighting Plan per Section 7.1.2 of the Zoning Bylaws	Eliminate (limit to building mounted lighting)
Site Plan Rules & Regulations Chapter 200 Section 204-3 F. 4	Parking Impact Assessment (greater than 30 spaces required)	Eliminate (under threshold)
Site Plan Rules & Regulations Chapter 200 Section 204-5 D. 8	Landscape Architect Plan	Eliminate (use typical residential plantings)
Site Plan Rules & Regulations Chapter 200 Section 207-11 A. 3	Site Entrance Width of 20 feet	Reduce to 16 feet
Site Plan Rules & Regulations Chapter 200 Section 207-11 A. 4	Vertical Granite Curbing at entrance	Eliminated curbing requirement
Site Plan Rules & Regulations Chapter 200 Section 207-11 A. 13	Driveway 15 feet from residential use side lot line	Reduce to 11 feet
Site Plan Rules & Regulations Chapter 200 Section 207-12 H. 1	Parking area perimeter granite curbing	Eliminated curbing requirement
Zoning Bylaw Section 6.1 Table 2. Dimensional And Density Regulations	35' Front Yard Setback	Reduce to 30' (minimize impervious area on-site)
Site Plan Rules & Regulations Chapter 200 Section 204-3. K	Determination of applicability from conservation Commission	Eliminate
Site Plan Rules & Regulations Chapter 200 Section 204-5. D.14	Master signage plan	Eliminate
Site Plan Rules & Regulations Chapter 200 Section 207-11. B.2	Perimeter driveway aisle granite curbing	Eliminate
Site Plan Rules & Regulations Chapter 200 Section 207-12. G.3.b	Parking space 15 feet from property line	Reduce to 9 feet
Site Plan Rules & Regulations Chapter 200 Section 207-12. H.2	3-foot curb radii at driveway apron	Reduce to 2-foot radii

Located at
288 Village Street
Medway, MA

SHEET INDEX	
SHEET NO.	TITLE
1	COVER SHEET
2	EXISTING CONDITIONS PLAN
3	PROPOSED SITE & UTILITIES PLAN
4	PROPOSED DRAINAGE & GRADING PLAN
5	SEDIMENT & EROSION CONTROL PLAN
6	DETAILS & NOTES
7	DETAILS & NOTES

OWNER/ APPLICANT (S):
TONY J. LELAND, SR. & DAWN M. LELAND
290 VILLAGE STREET
MEDWAY, MA

ARCHITECT:
CME ARCHITECTS, INC.
6 WILKINS DRIVE, SUITE 210
PLAINVILLE, MA 02762
(508) 809-2509

ZONING DISTRICT: AGRICULTURAL-RESIDENTIAL II

	REQUIRED	EXISTING	PROPOSED
AREA:	22,500 S.F.	22,600 S.F.	22,600 S.F.
FRONTAGE:	150 FT.	133.22 FT.	133.22 FT.
FRONT YARD:	35 FT.	24.7 FT.	30 FT.
SIDE YARD:	15 FT.	25.6 FT.	17 FT.
REAR YARD:	15 FT.	75.0 FT.	73 FT.
LOT COVERAGE	30% MAX.	8.5%	15%
BLDG. HEIGHT	35 FT.	-	30 FT.
IMPERVIOUS COVERAGE	40% MAX.	21%	39.5%
PARKING	1.5 SPC./UNIT	N/A	9 SPC

THIS PROPERTY IS IN THE MULTI-FAMILY HOUSING OVERLAY DISTRICT

ZONING DISTRICT: MULTI-FAMILY HOUSING OVERLAY DISTRICT

	REQUIRED	PROPOSED
LOT FRONTAGE:	50 FT.	133.22 FT.
BLDG. HEIGHT:	40 FT.	30 FT.
OPEN SPACE:	15%	60.5%
PARKING SPACES:	6	9

PLANNING AND ECONOMIC DEVELOPMENT BOARD ENDORSEMENT
SIGNATURE _____ DATE _____

APPROVED BY PLANNING _____

I, _____, CLERK OF THE TOWN OF MEDWAY, RECEIVED AND RECORDED APPROVAL FROM THE PLANNING AND ECONOMIC DEVELOPMENT BOARD OF THIS PLAN AND ITS CORRESPONDING DECISION ON _____ AND NO APPEAL WAS TAKEN FOR TWENTY (20) DAYS, THEREAFTER.

SIGNATURE: _____

DATE: _____

THIS PROJECT IS SUBJECT TO A PERFORMANCE SECURITY COVENANT TO BE RECORDED HEREWITH.

COVER SHEET

Located at
288 Village Street
Medway, MA

Owned By
Tony J. Leland, Sr.
&
Dawn M. Leland
290 Village Street
Medway, MA

Prepared For
Tony J. Leland, Sr.
290 Village Street
Medway, MA

Scale: As Noted

LOCUS REFERENCES

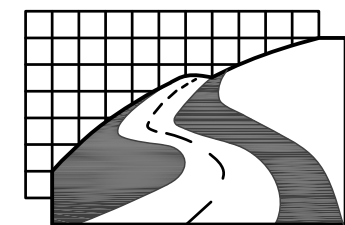
Deed (Book / Page): 36356 / 499
Plan (Plan Book / Plan): 676 / 87
Assessors: 58 - 083



Norman G. Hill, P.E.
Date: 6-03-22
Norman G. Hill, PE #31887

REVISIONS

Date	Description
5/25/22	Revised per Tetra Tech review
Field By:	SB/DL 1/26/2022
Designed By:	SB 2/10/2022
Drawn By:	SB 2/10/2022
Checked By:	NGH 2/18/2022



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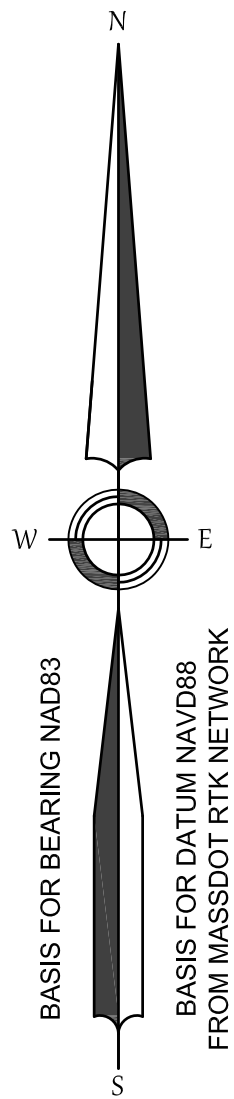
Bellingham
167 Hartford Ave.
Bellingham, MA 02019
508-966-4130

North Grafton
214 Worcester St.
N. Grafton, MA 01536
508-839-9526

Hanson
1115 Main Street
Hanson, MA 02341
781-294-4144
www.landplanninginc.com

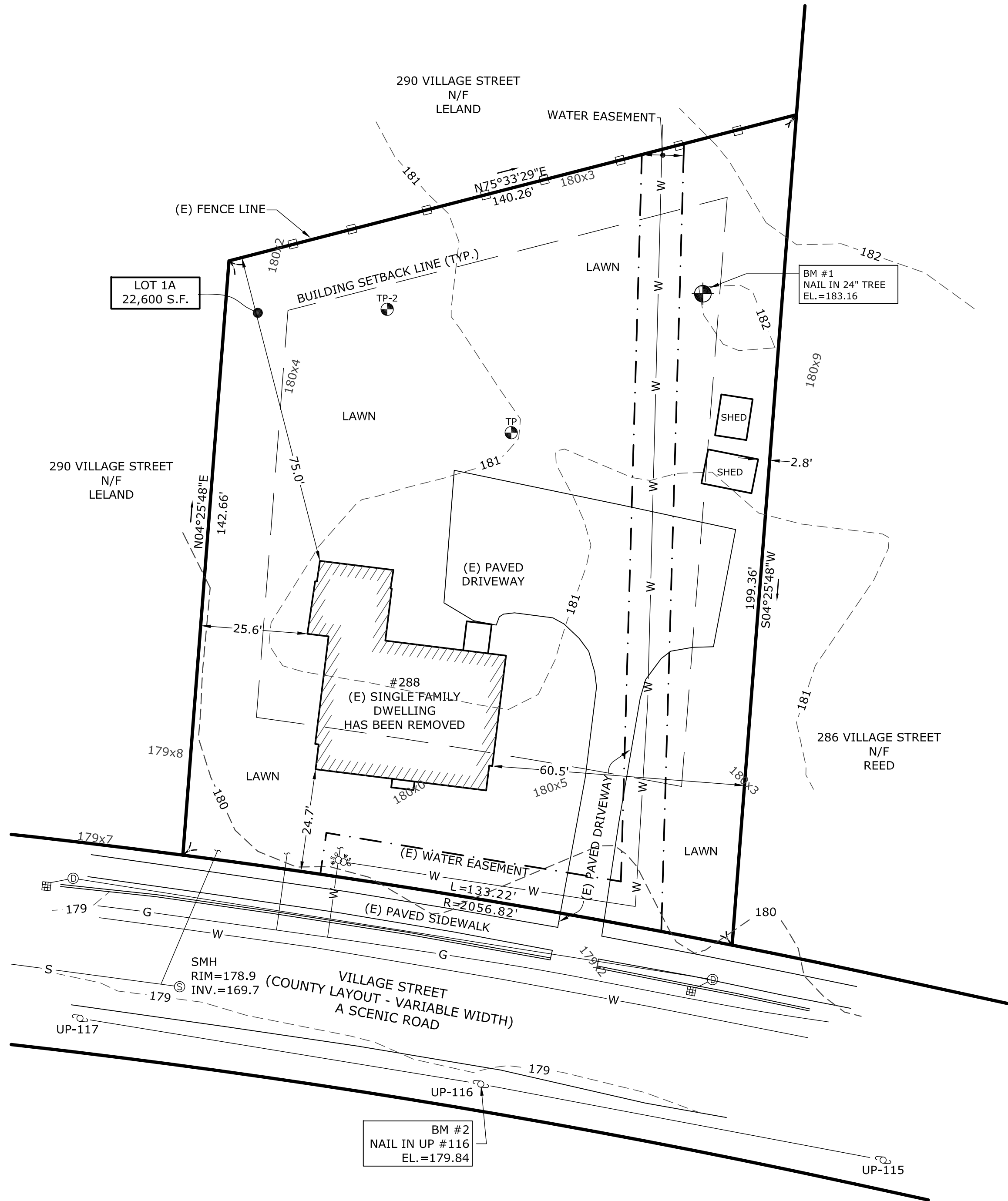
Date: April 1, 2022
Job No. B1483

Sheet No. 1

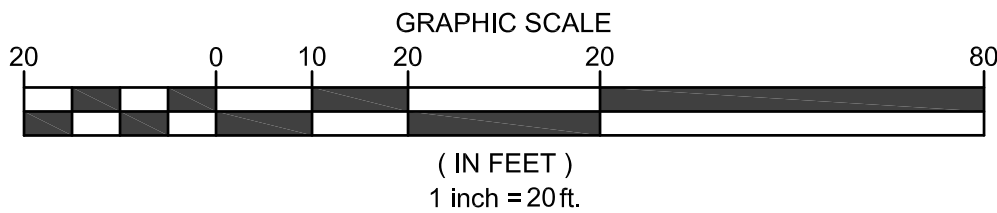


TEST PIT RESULTS- TP-1			
DEPTH (IN.)	HORIZON	TEXTURE	COLOR
0 - 4	FILL	-	-
4 - 28	B	LOAMY SAND	10YR 6/8
28 - 112	C	SAND	7.5YR 7/2
MOTTLES:N/A		STANDING:N/A	WEEPING: 100"

TEST PIT RESULTS- TP-2			
DEPTH (IN.)	HORIZON	TEXTURE	COLOR
0 - 4	FILL	-	-
4 - 24	B	LOAMY SAND	10YR 6/8
24 - 108	C	SAND	7.5YR 7/2
MOTTLES:N/A		STANDING:N/A	WEEPING: N/A



IMPERVIOUS COVERAGE	
EXISTING AREA:	4,784 S.F.
EXISTING COVERAGE	21% (40% ALLOWABLE)



GENERAL NOTES

- TOPOGRAPHY DETERMINED BY AN ON-THE-GROUND SURVEY BY LAND PLANNING, INC. ALL ELEVATIONS REFER TO NAVD 1988 DATUM.
- THE ENTIRE SITE IS NOT LOCATED WITHIN THE LIMITS OF THE 100 YEAR FLOOD ZONE AS SHOWN ON THE FIRM MAP #25021C0143E DATED JULY 17, 2012.
- CONSERVATION COMMISSION APPROVAL IS NOT REQUIRED.
- ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE BASED ON FIELD EVIDENCE AND RECORDS PROVIDED TO LAND PLANNING, INC.. THESE LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. OTHER UTILITIES MAY EXIST WHICH ARE NOT EVIDENT OR FOR WHICH RECORD INFORMATION WAS NOT FOUND. THE CONTRACTOR MUST CONTACT ALL UTILITY COMPANIES AND "DIG SAFE" (888-DIG-SAFE) BEFORE EXCAVATION BEGINS. WE ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.

EXISTING CONDITIONS PLAN

Located at
288 Village Street
Medway, MA

Owned By
Tony J. Leland, Sr.
&
Dawn M. Leland
290 Village Street
Medway, MA

Prepared For
Tony J. Leland, Sr.
290 Village Street
Medway, MA

Scale: As Noted

LEGEND

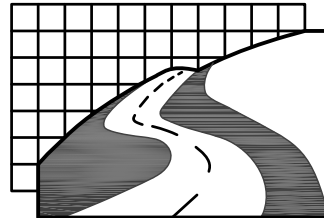
⊕	BENCHMARK
(E)	EXISTING
(P)	PROPOSED
(F)	FOUND
(S)	SET
□	BOUND (BND)
○	IRON ROD (IR)
○	IRON PIPE (IP)
●	DRILL HOLE (DH)
---	EXISTING CONTOUR
000x0	EXISTING SPOT GRADE
---	ZONING SETBACK



Norman G. Hill, P.E.
Date: 6-03-22
Norman G. Hill, PE #31887

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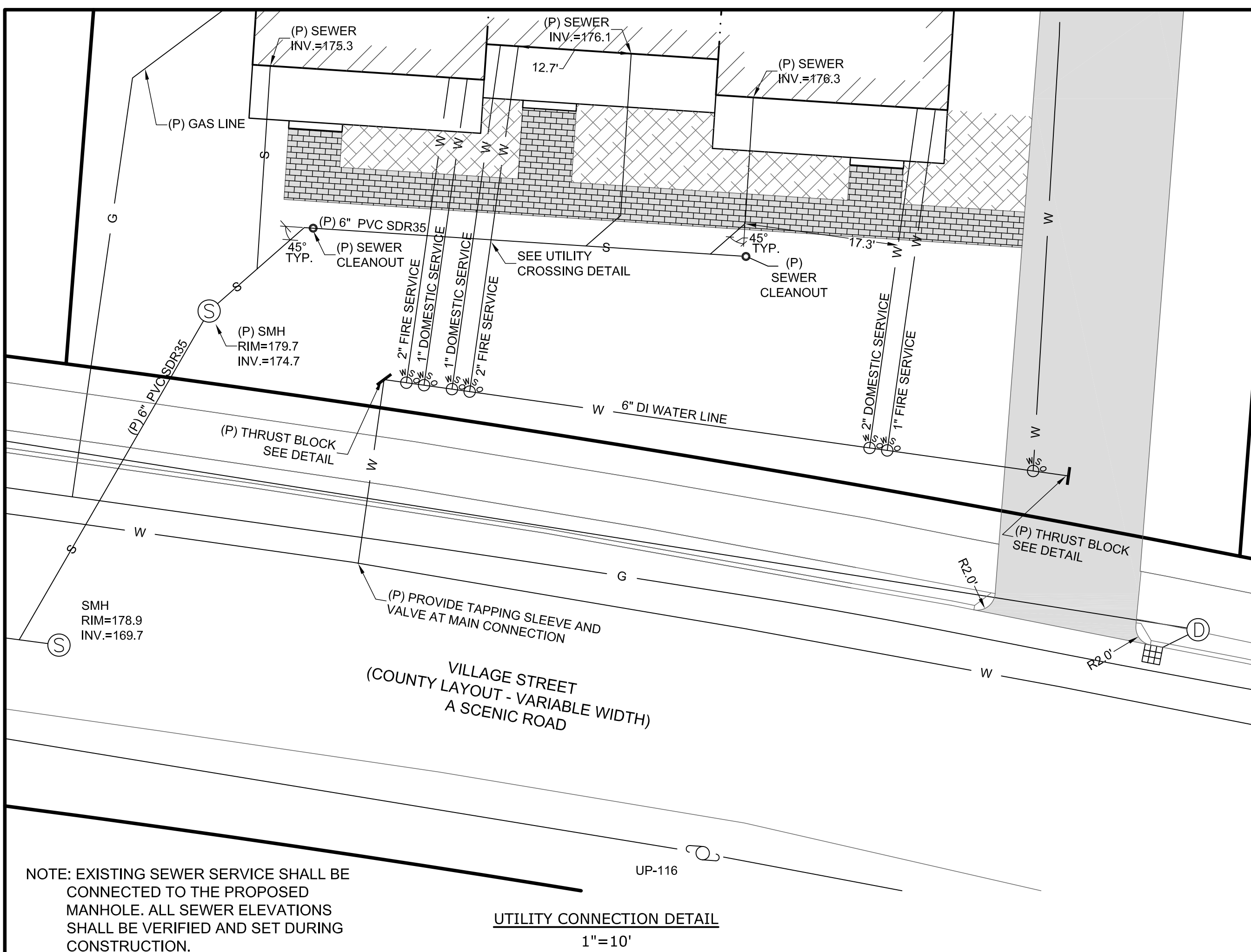
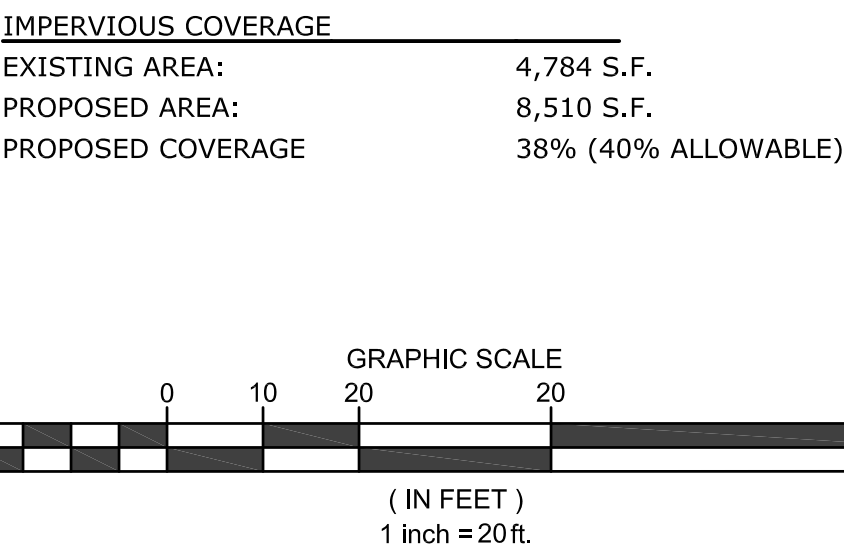
Bellingham
167 Hartford Ave.
Bellingham, MA 02019
508-966-4130

North Grafton
214 Worcester St.
N. Grafton, MA 01536
508-839-9526

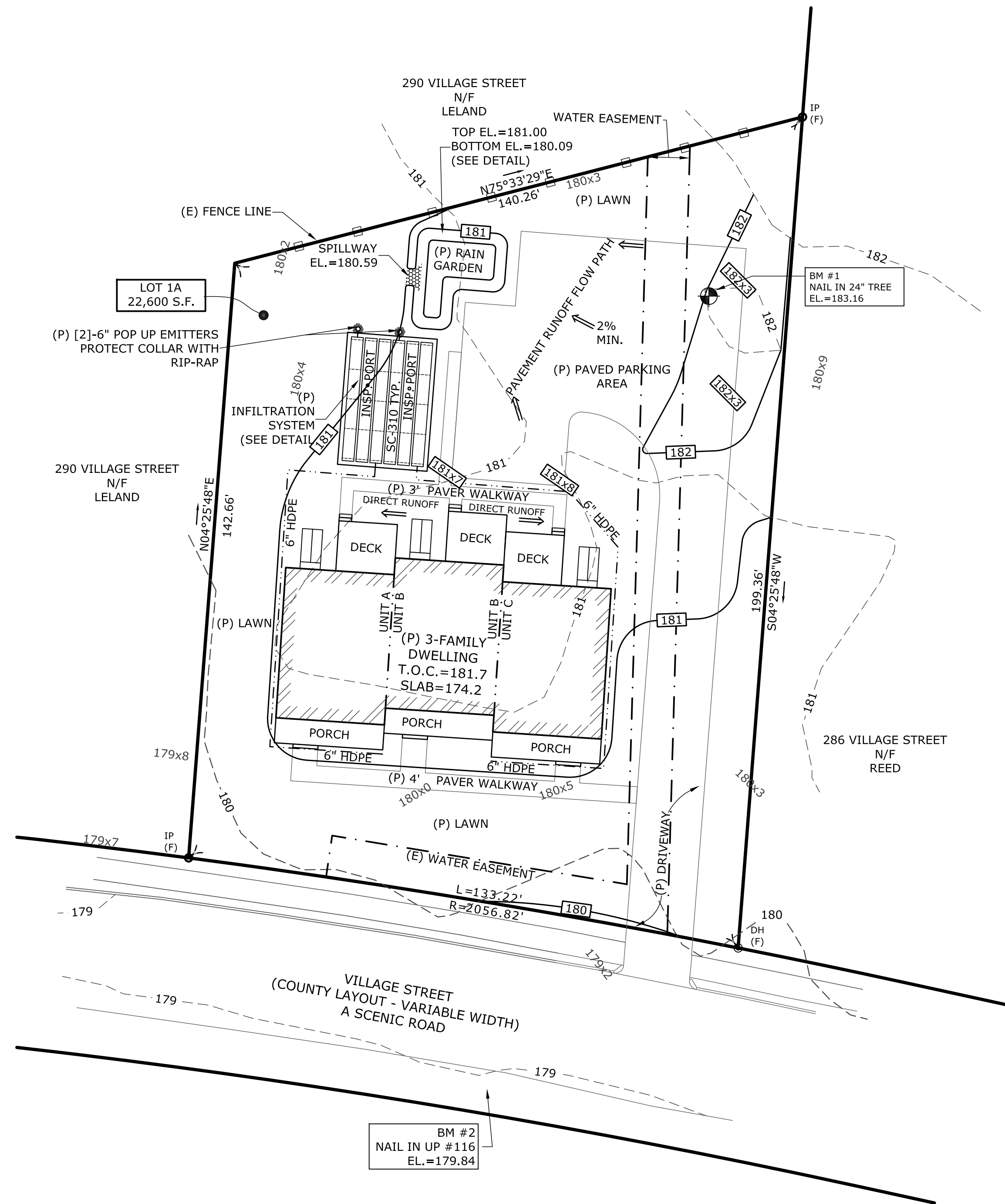
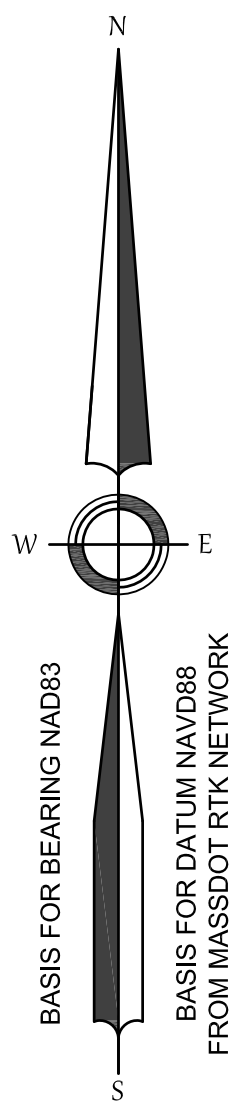
Hanson
1115 Main Street
Hanson, MA 02341
781-294-4144

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Date	April 1, 2022	Sheet No.
Job No.	B1483	2



(1)



PROPOSED DRAINAGE & GRADING PLAN

Located at
288 Village Street
Medway, MA

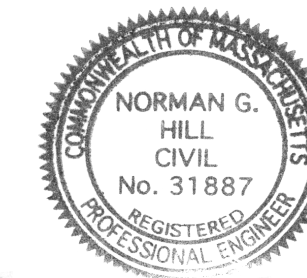
Owned By
Tony J. Leland, Sr.
&
Dawn M. Leland
290 Village Street
Medway, MA

Prepared For
Tony J. Leland, Sr.
290 Village Street
Medway, MA

Scale: As Noted

LEGEND

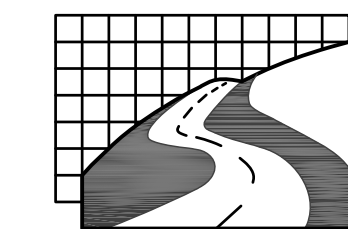
- BENCHMARK
- (E) EXISTING
- (P) PROPOSED
- (F) FOUND
- (S) SET
- BOUND (BND)
- IRON ROD (IR)
- IRON PIPE (IP)
- DRILL HOLE (DH)
- EXISTING CONTOUR
- EXISTING SPOT GRADE
- PROPOSED CONTOUR
- PROPOSED SPOT GRADE
- PROPOSED TREE
- SEDIMENT BARRIER
- ZONING SETBACK



Norman G. Hill, P.E.
Date: 6-03-22
Norman G. Hill, PE #31887

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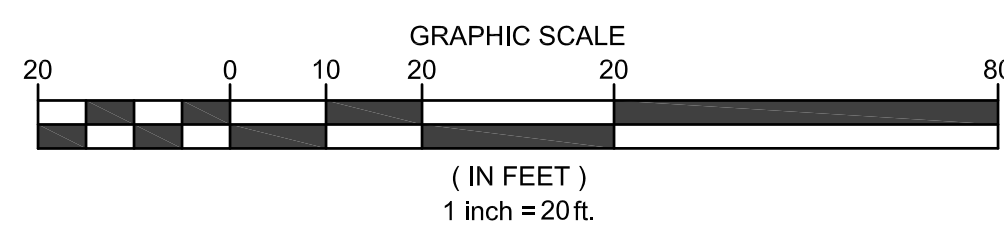
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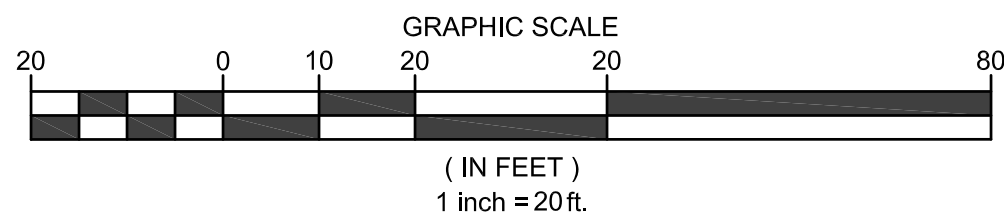
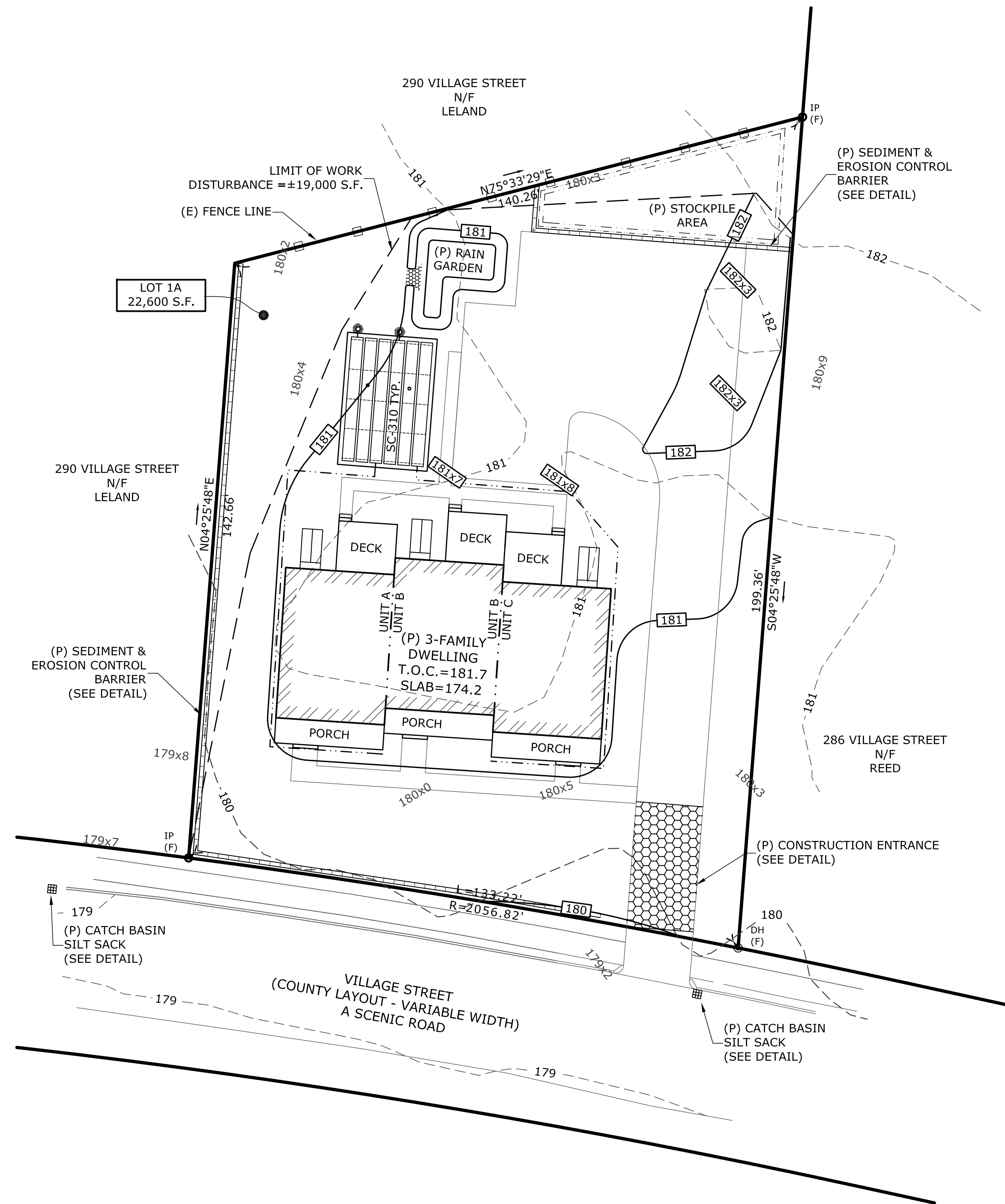
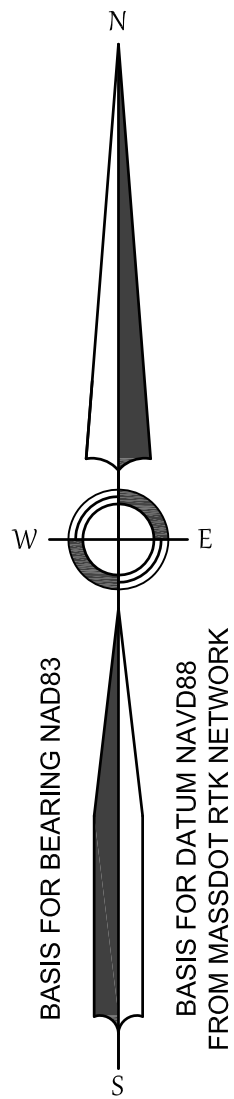
Date
April 1, 2022

Job No.
B1483

Sheet No.

4





SEDIMENT & EROSION CONTROL PLAN

Located at
288 Village Street
Medway, MA

Owned By
Tony J. Leland, Sr.
&
Dawn M. Leland
290 Village Street
Medway, MA

Prepared For
Tony J. Leland, Sr.
290 Village Street
Medway, MA

Scale: As Noted

LEGEND

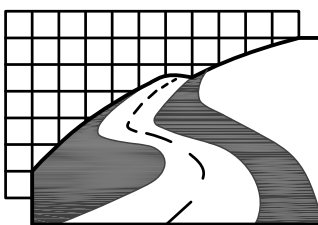
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- (E) EXISTING
- (P) PROPOSED
- (F) FOUND
- (S) SET
- BOUND (BND)
- IRON ROD (IR)
- IRON PIPE (IP)
- DRILL HOLE (DH)
- EXISTING CONTOUR
- EXISTING SPOT GRADE
- PROPOSED CONTOUR
- PROPOSED SPOT GRADE
- PROPOSED TREE
- SEDIMENT BARRIER
- ZONING SETBACK



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167 Hartford Ave.
Bellingham, MA 02019
508-966-4130

North Grafton

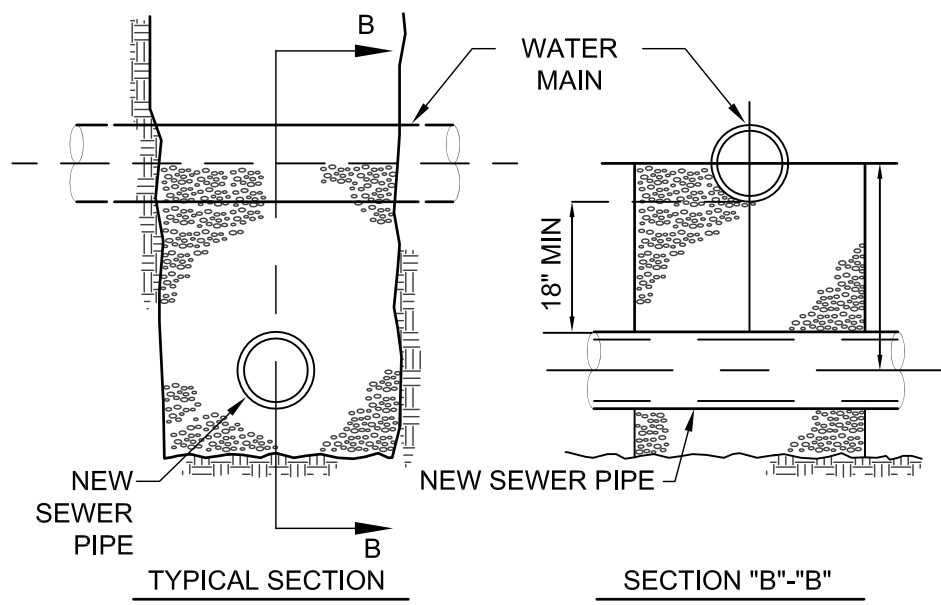
214 Worcester St.
N. Grafton, MA 01536
508-839-9526

Hanson

1115 Main Street
Hanson, MA 02341
781-294-4144

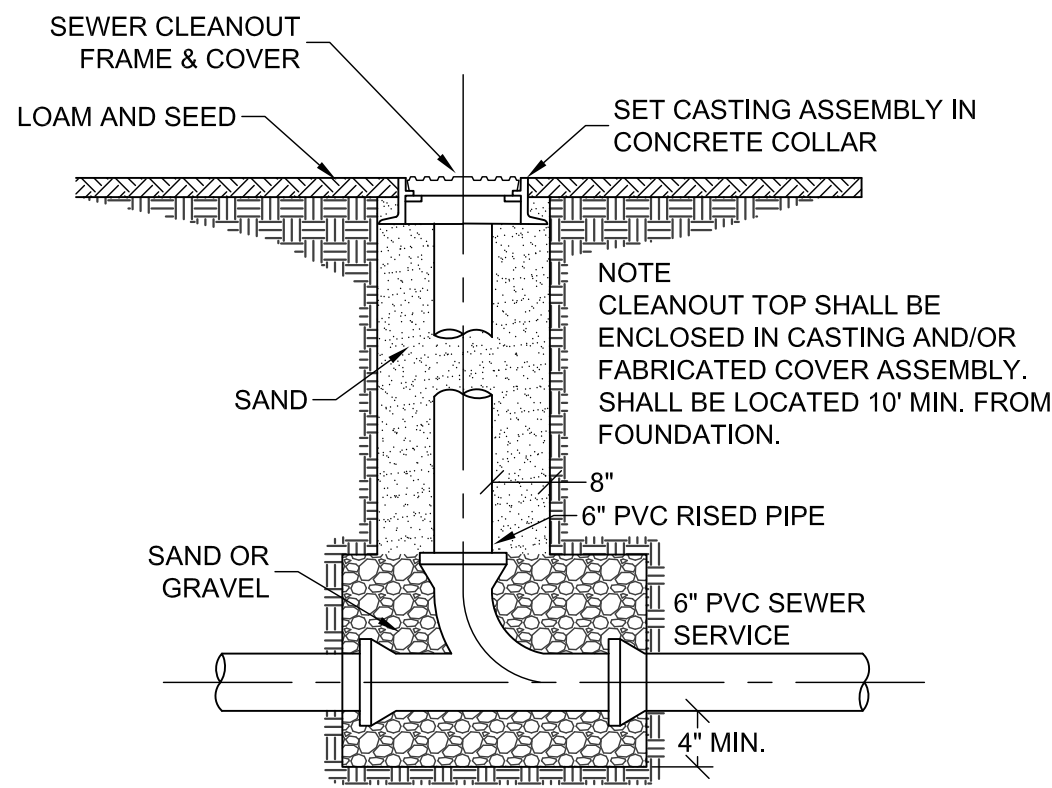
www.landplanninginc.com

Date	April 1, 2022	Sheet No.
Job No.	B1483	5

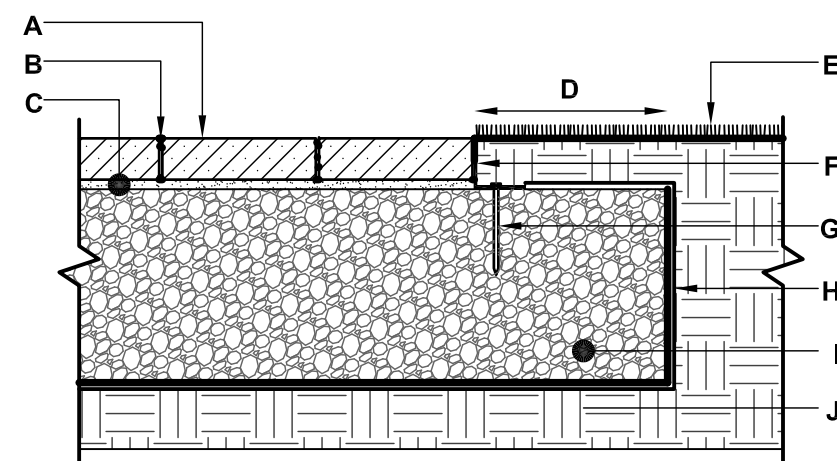


NOTE: IN THE EVENT OF A SEWER MAIN OR SEWER SERVICE CROSSING A WATER MAIN OR WATER SERVICE CLOSER THAN 10', THE SEWER MAIN OR SERVICE SHALL BE COMPLETELY ENCASED IN 6" OF 3,000 P.S.I. CONCRETE FOR A DISTANCE OF 10' ON EACH SIDE OF THE CROSSING.

UTILITY CROSSING DETAIL
not to scale

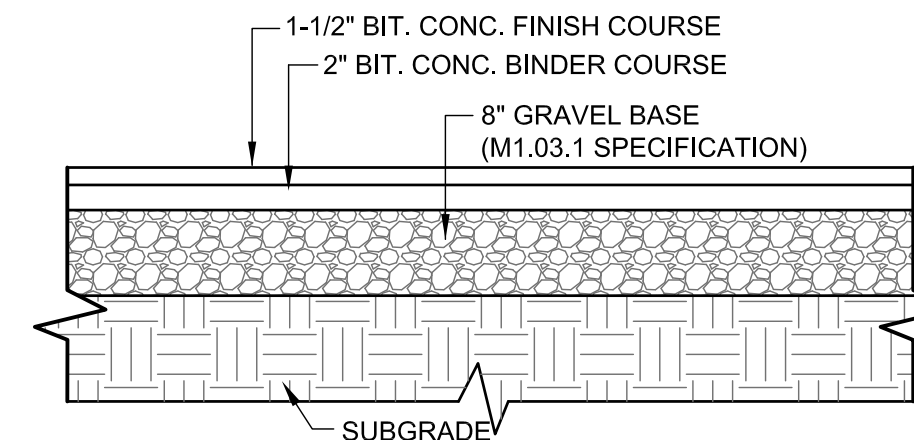


SEWER CLEANOUT
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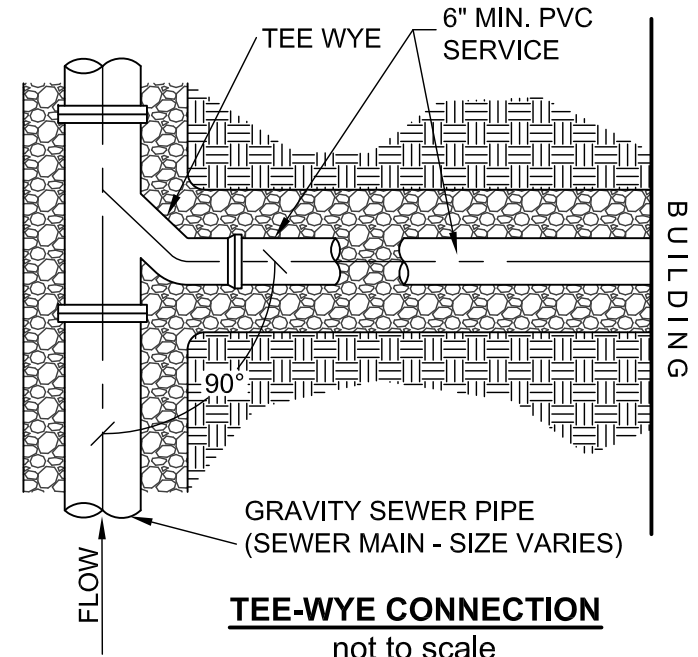


GRANULAR BASE PAVERS
NOT TO SCALE

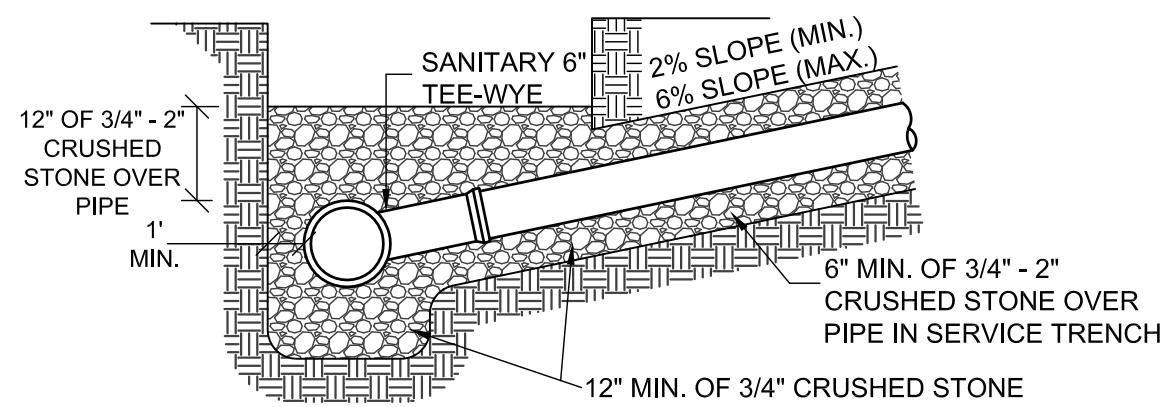
- A. TECHO-BLOC OR EQUIVALENT PRECAST CONCRETE PAVER 2 3/8" THICK MIN.
B. SAND JOINT FILL
C. SAND SETTING BED (CONCRETE SAND) 1" THICKNESS
D. EXTRA WIDTH EQUAL TO FOUNDATION
E. LAWN
F. ALUMINIUM / STEEL / PLASTIC EDGE RESTRAIN
G. SPIKE
H. GEOTEXTILE
I. COMPACTED GRANULAR BASE 0-3/4"
J. SUBGRADE



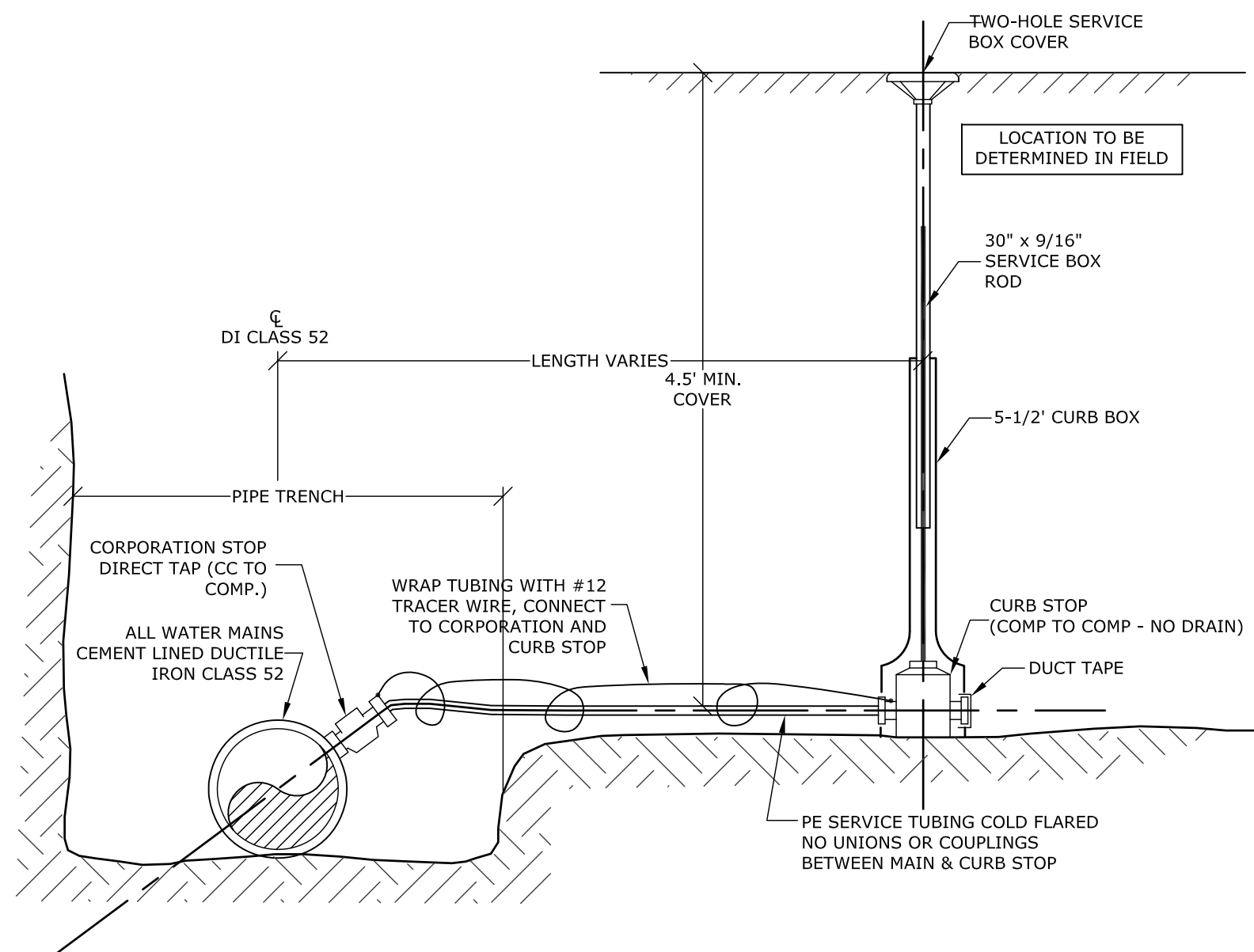
BITUMINOUS CONCRETE PAVEMENT CROSS SECTION
not to scale



TEE-WYE CONNECTION
not to scale

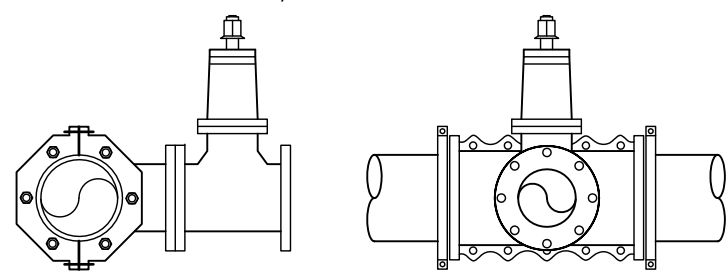


TEE-WYE CROSS SECTION
not to scale



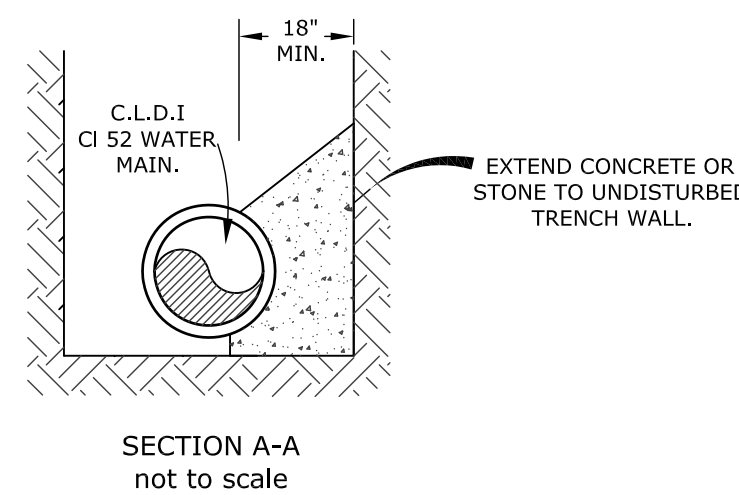
TYPICAL SERVICE CONNECTION
NOT TO SCALE

NOTE:
ALL MAIN LINE VALVES - (OPEN LEFT, NON RISING STEM)
SIZES 3" TO 12" - (GATE VALVES)
SIZES GREATER THAN 12" - (BUTTERFLY VALVES)
MUELLER - KENNEDY - DARLING - EPOXY COATED MUELLER
RESILIENT SEAT EPOXY COATED, A.W.W.A. APPROVED

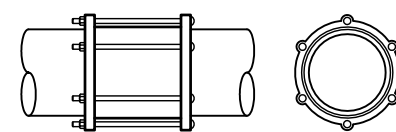


MJ TAPPING SLEEVE WITH MUELLER T-2360 (OR EQUIVALENT) RESILIENT WEDGE
TAPPING VALVE - MJ x FL ENDS OPEN LEFT

TAPPING SLEEVE & VALVE
NOT TO SCALE

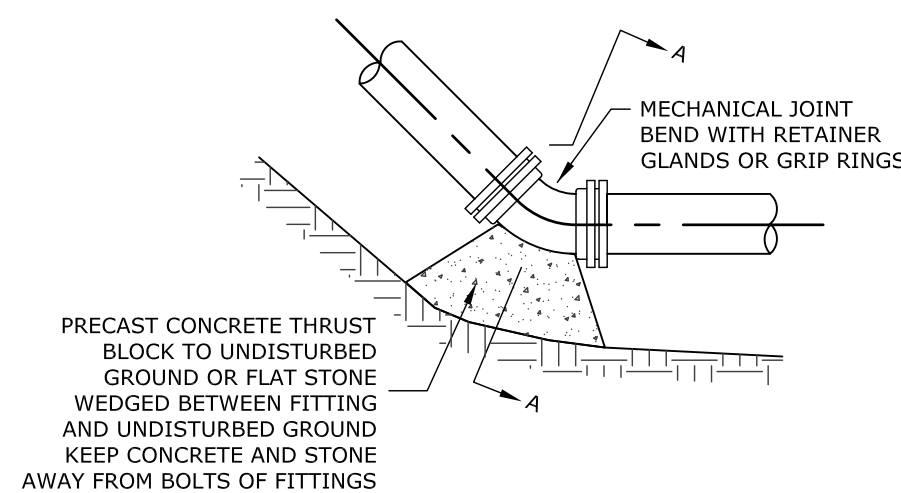


SECTION A-A
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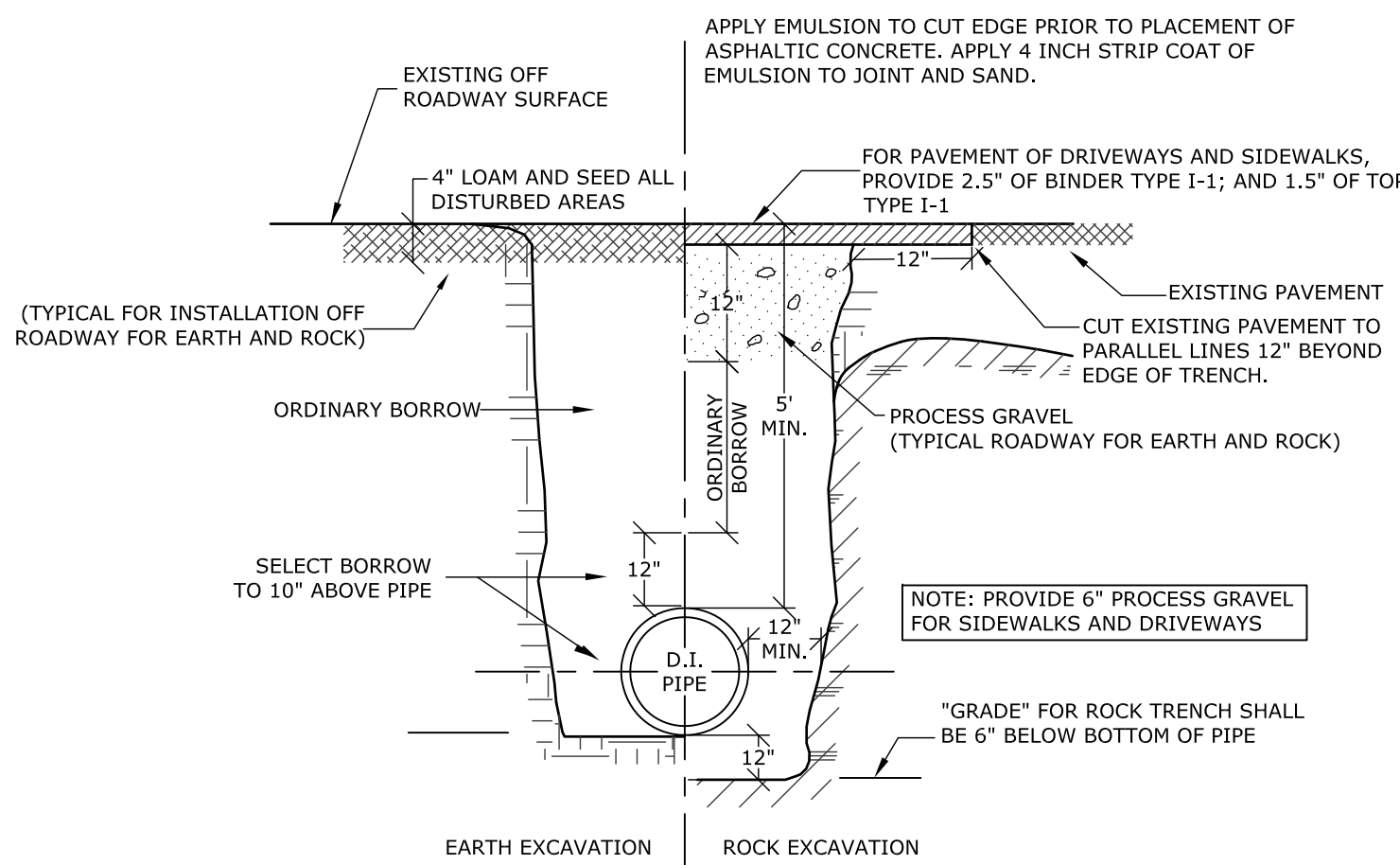


STYLE 501 & RC 501 BY ROMAC INDUSTRIES OR EQUIVALENT
TO BE USED FOR PIPE REPAIRS, "CUT-INS", COUPLING DIFFERENT TYPES OF PIPE, & CORRECTING MISALIGNED PIPE (DI TO C-900; DI TO AC; C-900 TO AC)

DUCTILE IRON PIPE COUPLING
NOT TO SCALE

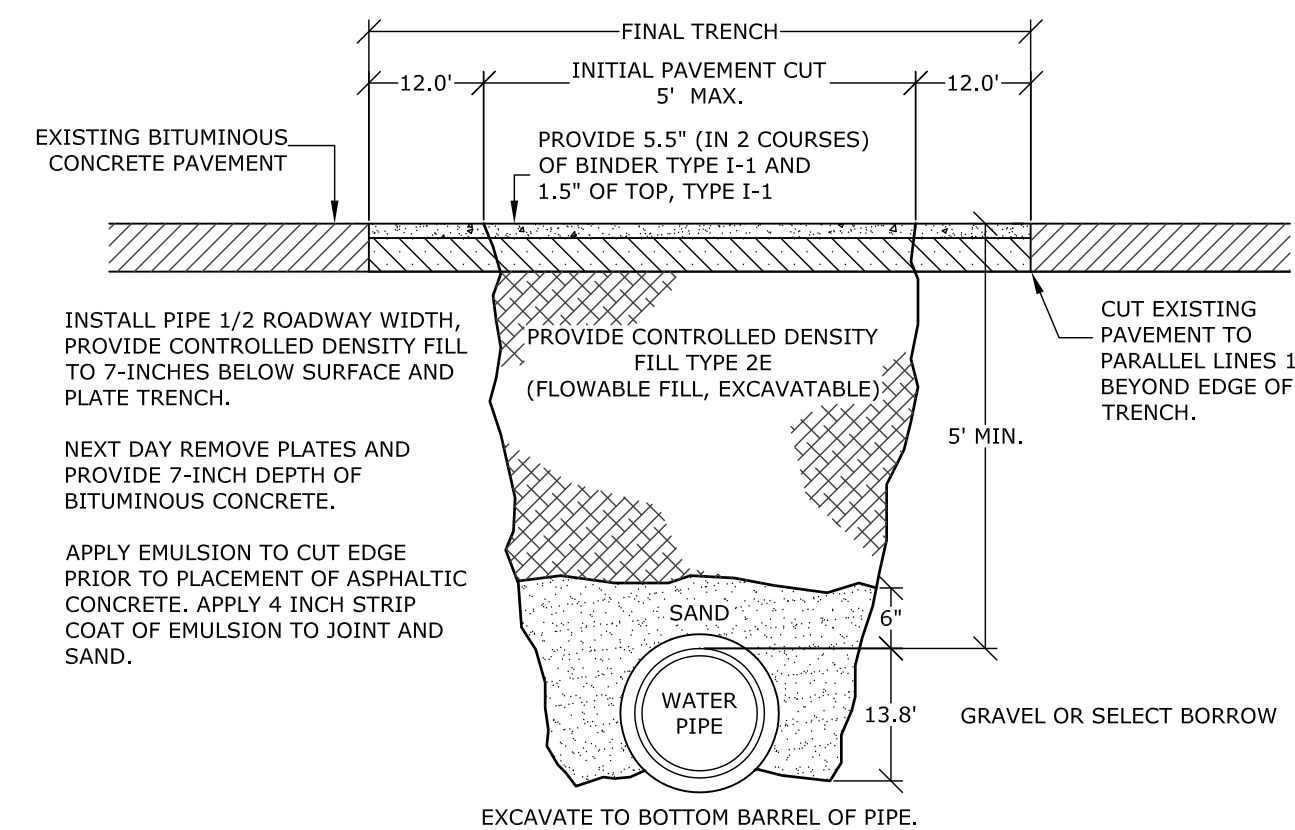


TYPICAL THRUST BLOCK DETAILS
NOT TO SCALE



NOTE:
ALL PIPES INSTALLED UNDER BROOKS, CULVERTS OR WITHIN 6" OF ANY STRUCTURES (CB, MH, PITS, VAULTS) MUST BE DUCTILE IRON.

DUCTILE IRON WATER MAINS TRENCH SECTION
NOT TO SCALE



TRENCH RESURFACING IN STATE HIGHWAY & ON MAIN ROADS
NOT TO SCALE

UTILITY CONSTRUCTION NOTES

- ALL BACKFILL SHALL BE PLACED AND COMPACTED IN 6" LIFTS OR 12" LIFTS WHEN MECHANICAL MEANS ARE UTILIZED.
- MEASURES SHALL BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL.
- FOUNDATION- WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE DESIGN ENGINEER AND REPLACEMENT WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING GEOTEXTILE MATERIAL.
- BEDDING- PIPE BEDDING FOR WATER UTILITIES SHALL BE SAND. PIPE BEDDING FOR SANITARY SEWER AND STORMWATER UTILITIES SHALL BE 3/4" DIAMETER CRUSHED STONE.
- BACKFILL- SUITABLE MATERIAL SHALL BE CLASS I, II, OR III IN THE PIPE ZONE NOT LESS THAN 6" ABOVE THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATIONS TO THE DESIGN ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN THE LATEST EDITION OF ASTM D2321.
- WHERE FEASIBLE, SEWERS SHALL BE SEPARATED A MINIMUM OF 10 FEET, HORIZONTALLY, FROM ANY EXISTING WATER MAIN OR IT SHALL BE ENCASED IN CONCRETE.
- WHERE A 10 FOOT LATERAL SEPARATION BETWEEN SEWER AND WATER CAN NOT BE MAINTAINED, THE WATER MAIN SHALL BE LOCATED WITHIN A SEPARATE TRENCH AND THE CROWN OF THE SEWER SHALL BE PLACED A MINIMUM OF 18" BELOW THE INVERT OF THE WATER MAIN.
- WHERE SEWERS CROSS WATER MAINS, THE CROWN OF THE SEWER SHALL BE LAID 18" BELOW THE INVERT OF THE WATER MAIN. WHERE THIS REQUIREMENT CAN NOT BE MET, THE WATER LINE SHALL BE CONSTRUCTED OF MECHANICAL-JOINT PIPE FOR A DISTANCE OF 10 FEET OF EITHER SIDE OF THE CROSSING. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR AS POSSIBLE FROM THE SEWER. BOTH THE WATER AND SEWER LINES SHALL BE ENCASED IN CONCRETE FOR 10 FEET EITHER SIDE OF THE CROSSING WHERE THE REQUIRED VERTICAL SEPARATION CAN NOT BE PROVIDED.
- THE CONTRACTOR MUST CONTACT ALL UTILITY COMPANIES AND "DIG SAFE" BEFORE EXCAVATION BEGINS. WE ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURACIES SHOWN.
- IN THE EVENT THAT UTILITY INSTALLATION DETAIL CONFLICTS WITH THE TOWN OF MEDWAY DEPARTMENT OF PUBLIC WORKS STANDARDS FOR UTILITY MATERIALS AND INSTALLATION, THE TOWN STANDARDS SHALL GOVERN.

DETAILS & NOTES

Located at
288 Village Street
Medway, MA

Owned By
Tony J. Leland, Sr.
&
Dawn M. Leland
290 Village Street
Medway, MA

Prepared For
Tony J. Leland, Sr.
290 Village Street
Medway, MA

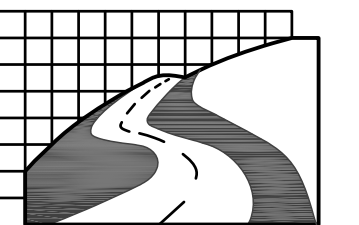
Scale: As Noted



Norman G. Hill, P.E.
Date: 6-03-22
Norman G. Hill, PE #31887

REVISIONS

Date	Description
5/25/22	Revised per Tetra Tech review
Field By:	SB/DL 1/26/2022
Designed By:	SB 2/10/2022
Drawn By:	SB 2/10/2022
Checked By:	NGH 2/18/2022



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Date
April 1, 2022

Job No.
B1483

Sheet No.

6

1. THE CONTRACTOR AND ALL SUB-CONTRACTORS ARE TO BE MADE AWARE THAT THIS PROJECT IS SUBJECT TO AN ORDER OF CONDITIONS FROM THE CONSERVATION COMMISSION AND ITS REGULATIONS ARE APPLICABLE TO THIS PROJECT. A COPY OF THIS ORDER IS TO BE READILY AVAILABLE ON SITE AT ALL TIMES.
2. SEDIMENT BARRIERS ARE TO BE INSTALLED WHERE SHOWN ON THIS PLAN. THE CONTRACTOR AND THE OWNER SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE OF THE SEDIMENT BARRIERS AND TO IDENTIFY AND CORRECT ALL SOURCES OF EROSION. EXTRA SEDIMENT BARRIER MATERIALS ARE TO BE STORED ON SITE IN ORDER TO QUICKLY REPAIR EROSION PRONE AREAS. PERIODIC MAINTENANCE OF THE EROSION CONTROL STRUCTURES IS REQUIRED IN ORDER TO INSURE THE PROPER PROTECTION OF THE RESOURCE AREAS.
3. STOCKPILED MATERIAL THAT IS SUBJECT TO EROSION SHALL BE PROTECTED AT ITS BASE ON THE DOWN-SLOPE SIDE WITH A SILT FENCE.
4. TEMPORARY STABILIZATION OF DISTURBED AREAS IS REQUIRED TO LIMIT EROSION TOWARD ABUTTING PROPERTIES AND PUBLIC WAYS. ALL GRADED SLOPES ARE TO BE STABILIZED ON A DAILY BASIS WITH SPECIAL CARE TAKEN TO AVOID ROUTING RAINFALL THROUGH GULLIES TOWARD THE RESOURCE AREAS. AREAS OF EROSION ARE TO BE REPAIRED ON A DAILY BASIS.
5. THE CONTRACTOR IS TO USE PROPER JUDGMENT RELATIVE TO CONSTRUCTION PRACTICES DURING ADVERSE WEATHER CONDITIONS OR PERIODS OF HIGH GROUNDWATER. NO WORK IS TO BE PERFORMED NEAR THE WETLAND AREAS DURING PERIODS OF HEAVY RAINFALL. INSPECTION IS REQUIRED AFTER MORE THAN 1/2" OF RAINFALL IN 24 HOURS.
6. ALL GRADED AREAS ARE TO BE LOAMED AND SEEDED AS SOON AS POSSIBLE IN ORDER TO INSURE THE RAPID STABILIZATION OF THE EROSION PRONE AREAS. A GRASS SEED MIXTURE OF 20% RED TOP, 60% CHEWINGS FESCUE AND 20% KENTUCKY BLUEGRASS IS RECOMMENDED. "HYDROSEED" WITH HIGH FIBER CONTENT.
7. THE SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL ALL UPGRADIENT AREAS HAVE BEEN STABILIZED.
8. DURING PERIODS OF HEAVY RAINFALL, IT WILL BE EXPECTED TO EXPERIENCE EROSION OF THE UNSTABILIZED SLOPES. IMMEDIATE ATTENTION TO THE MAINTENANCE OF THESE ERODED AREAS WILL FURTHER INSURE THE SUCCESSFUL STABILIZATION OF THE EXPOSED SLOPES WHILE LIMITING THE IMPACTS TO NEARBY RESOURCE AREAS.
9. PERIODIC INSPECTIONS OF THE ENTIRE CONSTRUCTION SITE ARE TO BE PERFORMED BY A COMPETENT REPRESENTATIVE WHO WILL INSURE THE ADHERENCE TO THE REGULATIONS AS SET FORTH IN 310 CMR 10.00. NO UNAUTHORIZED INDIVIDUALS ARE TO ENTER THE CONSTRUCTION AREA WITHOUT THE EXPRESSED CONSENT OF THE OWNER.
10. THE APPLICANT IS TO NOTIFY THE CONSERVATION COMMISSION ONCE THE JURISDICTIONAL WORK HAS BEEN COMPLETED AND THE ENTIRE SITE HAS BEEN PROPERLY STABILIZED. UPON APPROVAL OF THE WORK SUBJECT TO THE ORDER OF CONDITIONS, THE APPLICANT IS TO RECEIVE A CERTIFICATE OF COMPLIANCE.

WATERTIGHT (WT) JOINTS SHOWN. SOIL-TIGHT (ST) FITTINGS ARE ALSO AVAILABLE

WATERTIGHT (WT) JOINTS SHOWN. SOIL-TIGHT (ST) FITTINGS ARE ALSO AVAILABLE.

ALL HDPE PIPES TO BE ADS N-12. ALL FITTINGS TO BE ADS WATER TIGHT

FINISHED GRADE

NYLOPLAST CLEANOUT END CAP ADJUST GRADE PER ENGINEERS PLAN

INJECTION MOLDED, GASKETED SPIGOT BY BELL REDUCER

INJECTION MOLDED WT TEE

INJECTION MOLDED WT 45° WYE

DOWNSPOUT ADAPTER INSERTED IN RISER PIPE

FABRICATED HDPE ST DBL. MITER 90° BEND

FABRICATED HDPE ST DBL. MITER 90° BEND

HDPE PIPE (TYP.)

WT BELL-BELL COUPLER (TYP.)

BUILDING FACE

NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16A (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STAGING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, A) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN/IN. AND B) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

12" MIN.

Diagram illustrating the installation of a straw filter post. The post is supported by a mesh at the top. The post is 36" MAX. in length and 12" MIN. in length. The straw filter element is 12" Ø and 4" DEEP T. COMPACTED AT SILT FE. The flow direction is indicated by an arrow pointing right.

- NOTES:**
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
 3. REINFORCEMENT SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 4. DO NOT PLACE SILT FENCE IN STREAMS OR CONCENTRATED FLOW CONDITIONS.

EXTRA STRENGTH FILTER FABRIC NEEDED WITHOUT WIRE MESH SUPPORT

IF PONDING IS ANTICIPATED OR OCCURS, DOUBLE NUMBER OF STAKES FOR SUPPORT.

ATTACH FILTER FABRIC SECURELY TO UPSTREAM SIDE OF POST.

PRE-FABRICATED SILT FENCE IS ACCEPTABLE IF INSTALLED PER MANUFACTURER.

STRAW WATTLE

FLOW

DRAIN

STAKE SPACING
SILT FENCE: 10' MAX. SPACING WITH WIRE SUPPORT FENCE.
6' MAX. SPACING WITHOUT WIRE SUPPORT FENCE.

STRAW WATTLES: 4' MAX

[illegible]

CONCRETE COLLAR

PAVEMENT

12" MIN WIDTH

CONCRETE COLLAR NOT REQUIRED FOR UNPAVED APPLICATIONS

8" NYLOPLAST INSPECTION PORT BODY (PART# 2708AG4IPKIT) OR TRAFFIC RATED BOX W/SOLID LOCKING COVER

4" SDR 35 PIPE

CONCRETE SLAB 6" MIN THICKNESS

STORMTECH CHAMBER

NOTE: INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

CHAMBER TYPE:	STORMTECH SC-310
DESIGN:	24 CHAMBERS TOTAL 12 END CAPS (2 PER ROW)
ROW SPACING:	3.33' O.C.
OVERALL LENGTH:	4 CHAMBERS + 2 END CAPS + 2' OF STONE = 31.68'
OVERALL WIDTH:	6 ROWS + 5'(6" STONE SPACING) + 2' OF STONE = 21.50'

1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (MAX) LIFTS USING TWO FULL COVERS WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

RAIN GARDEN DETAIL
not to scale

PLANTS TO BE FIELD LOCATED IN A NATURAL MANNER TO COVER THE ENTIRE BOTTOM OF THE RAIN GARDEN. SEE PLANT LIST FOR RECOMMENDED PLANT SPECIES.

TYPICAL 4-6" PLANTING MOUND
PLACE A FEW 3" MIN. STONES AROUND BASE TO PROTECT ROOTS FROM FLOODING DAMAGE

2" GRASS BERM
EL.=181.00

GRASS PRE-TREATMENT FILTRATION STRIP MAX SLOPE 2%

WATER QUALITY VOLUME

2"-3" of mulch

WEED BARRIER GARDEN FABRIC

PLANTING MEDIUM DEPTH 30" MIN.
USE A WELL BLENDED MIXTURE (BY VOLUME):
40% SAND, 30-40% ORGANIC LEAF COMPOST, 20-30% TOPSOIL*

EL.=178.76

2' MIN.

GRASS FILTRATION STRIP MAX SLOPE 2%

EL.=180.59 RIP RAP OVERFLOW SPILLWAY
EL.=180.09
EL.=179.76

1:3 TO GRADE

EXISTING GRADE

MAINTENANCE SCHEDULE

MONTHLY: INSPECT AND REMOVE TRASH, MOW GRASS FILTRATION AREA REGULARLY.

ANNUALLY: REMOVE AND REPLACE DEAD PLANTS, PRUNE & FERTILIZE PLANTS, ADD MULCH AND WEED GARDEN AS NEEDED TO PREVENT INVASIVE SPECIES.

UNDISTURBED, UNCOMPACTED SOIL

GROUNDWATER ELEV=172.67

A cross-sectional diagram of a tree planting. The tree's root system is shown above a horizontal line representing the ground surface. Below this line, a rectangular area represents the root ball, which is surrounded by a layer of mulch. Labels with leader lines point to various components: '3" SHREDDED BARK MULCH' points to the mulch layer; 'REMOVE TOP 1/3 OF BURLAP' points to the top portion of the root ball's outer wrapping; 'TOP OF BALL AT FINISHED GRADE' points to the top edge of the root ball; 'PLANTING SOIL' points to the soil immediately surrounding the root ball; '2" MOUND' points to a raised area of soil in front of the tree; '6" MIN' points to the width of the planting hole; and 'UNDISTURBED SOIL' points to the native soil on the left side of the planting area.

D

Diagram illustrating a tree staking system using turnbuckles and cables. The diagram shows a tree trunk supported by a central stake and two side stakes, all secured with turnbuckles and cables. The system is anchored into the ground using 3" saucers and 2"x3" stakes. The ground is labeled as "SCARIFIED SOIL MIXED WITH 50% 3" SHREDDED BARK MULCH". A "REINFORCED RUBBER HOSE" is shown running along the side stakes. Dimensions include a 12" height for the central stake and a 12" width for the base of the side stakes. A note specifies: "NOTE: GUYING SYSTEMS EMPLOYING BUCKLES & CABLES SHALL BE BROUGHT TO TENSION & TURNBUCKLE THREADS BE FLATTENED TO PREVENT LOOSENING."

REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA GRADE AND CROWN FOUNDATION FOR POSITIVE DRAINAGE.

PAD DIMENSIONS: THE MINIMUM LENGTH OF THE GRAVEL PAD SHOULD BE 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH MAY BE USED. LONGER ENTRANCES WILL PROVIDE BETTER CLEANING ACTION. THE PAD SHOULD EXTEND THE FULL WIDTH OF THE CONSTRUCTION ACCESS ROAD OR 10 FEET WHICHEVER IS GREATER. THE AGGREGATE SHOULD BE PLACED AT LEAST SIX INCHES THICK.

IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE, 6 TO 8 INCHES HIGH WITH 3:1 SIDE SLOPES, ACROSS THE FOUNDATION APPROXIMATELY 15 FT FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.

ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHOULD BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.

WASHING: IF THE SITE CONDITIONS ARE SUCH THAT THE MAJORITY OF MUD IS NOT REMOVED FROM THE VEHICLE TIRES BY THE GRAVEL PAD, THEN THE TIRES SHOULD BE WASHED BEFORE THE VEHICLE ENTERS THE ROAD OR STREET. THE WASH AREA SHOULD BE A LEVEL AREA WITH 3-INCH WASHED STONE MINIMUM. OR A COMMERCIAL RACK. WASH WATER SHOULD BE DIRECTED INTO A SEDIMENT TRAP, A VEGETATED FILTER STRIP, OR OTHER APPROVED SEDIMENT TRAPPING DEVICE. SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY WATERCOURSES.

A FILTER FABRIC FENCE SHOULD BE INSTALLED DOWN-GRADIENT FROM THE CONSTRUCTION ENTRANCE IN ORDER TO CONTAIN ANY SEDIMENT-LADEN RUNOFF FROM THE ENTRANCE.

THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE.

INSPECT ENTRANCE/EXIT PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER HEAVY RAINS OR HEAVY USE.

REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROAD IMMEDIATELY.

MUD AND SOIL PARTICLES WILL EVENTUALLY CLOG THE VOIDS IN THE GRAVEL AND THE EFFECTIVENESS OF THE GRAVEL PAD WILL NOT BE SATISFACTORY. WHEN THIS OCCURS, THE PAD SHOULD BE TOPDRESSED WITH NEW STONE. COMPLETE REPLACEMENT OF THE PAD MAY BE NECESSARY WHEN THE PAD BECOMES COMPLETELY CLOGGED.

IF WASHING FACILITIES ARE USED, THE SEDIMENT TRAPS SHOULD BE CLEANED OUT AS OFTEN AS NECESSARY TO ASSURE THAT ADEQUATE TRAPPING EFFICIENCY AND STORAGE VOLUME IS AVAILABLE. VEGETATIVE FILTER STRIPS SHOULD BE MAINTAINED TO INSURE A VIGOROUS STAND OF VEGETATION AT ALL TIMES.

RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL

REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.

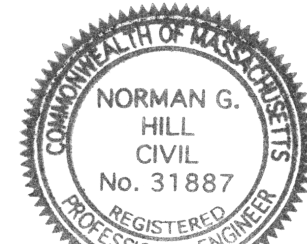
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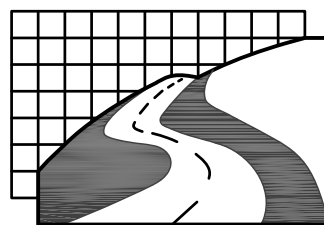


Norman G. Hill, P.E.
Date: 6-03-2011

Norman G. Hill, PE #31887

Date	Description
5/25/22	Revised per Tetra Tech review

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Designed By:	SB	2/10/2018
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