

LOCATION MAP SCALE: 1"=2000'±

ZONING DATA	
DISTRICT: RESIDENTIAL A	
MINIMUM REQUIREMENTS:	
LOT AREA	40,000 S.F.
UPLAND 80% CONTIGUOUS	32,000 S.F.
(>30,000 S.F. WITHIN 275' OF WAY)	
(HOUSE PLACED IN 150' DIA. CIRCLE LOCATED TOTALLY WITHIN 80% UPLAND AREA WITH ABILITY TO INSCRIBE CIRCLE FROM LOT'S FRONTAGE TO DESIGN AREA)	
LOT FRONTAGE	150 FT
FRONT YARD	40 FT
SIDE YARD	20 FT
REAR YARD	25 FT

ROADWAY DATA	
"MINOR STREET"	
RIGHT OF WAY	50'
PAVEMENT WIDTH	24'
CAPE COD BERM	12"
SIDEWALK WIDTH	4'
MIN. SIGHT DISTANCE	390'
MAX. GRADE	10%
MIN. GRADE	1%
MIN. CENTERLINE RADIUS	150'
MAX. STREET LENGTH	1000'
TURNAROUND DIAMETER	126'

TOTAL LENGTH OF ROADWAY = 459'
(MEASURED FROM PROPERTYLINE AT RIGHT OF WAY TO CENTER OF CUL-DE-SAC ALONG CENTERLINE)

TOTAL LENGTH OF DEAD END = 644'
(MEASURED FROM THE INTERSECTION OF ORCHARD DRIVE TO CENTER OF CUL-DE-SAC ALONG CENTERLINE)

RECORD OWNER:
ASSESSOR MAP D8 LOT 5b

DIANE SAUNDERS &
STEPHEN V. SAIA
DEED BOOK 37098 PAGE 128
PLAN No. 58 OF 1980
PLAN BOOK 21 PAGE 415

PLAN REFERENCES:
1. PLAN NO. 296 OF 1953, PLAN BOOK 9 PAGE 342
2. PLAN No. 126 OF 1968, PLAN BOOK 14 PAGE 793
3. COUNTY LAYOUT OF MOUNTAIN AVE DECREE NO. 879, MARCH 20, 1934.

PLAN REFERENCES:
BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS NOT LOCATED IN ZONE "X" OF THE FLOOD INSURANCE RATE MAP AS DEPICTED ON COMMUNITY PANEL No. 25023C0216J WHICH BEARS AN EFFECTIVE DATE OF JULY 17, 2012, AND IS NOT IN A SPECIAL FLOOD HAZARD AREA.

NOTES:
1. BENCHMARK - GARAGE SLAB EXISTING DWELLING #70
2. ALL ELEVATIONS ARE BASED ON N.A.V.D.88 DATUM



WAIVER REQUESTS

SECTION V.D. SIDEWALKS

- TO WAIVE THE REQUIREMENT OF SIDEWALKS ON BOTH SIDES OF THE ROAD

SECTION V.L. STREET LIGHTS

- TO WAIVE THE REQUIREMENT OF STREET LIGHTS

FOR REGISTRY USE ONLY

PEMBROKE PLANNING BOARD

APPROVED CONDITIONALLY SUBJECT TO THE COMPLETION OF ALL REQUIRED GROUNDWORK AS SHOWN ON THESE PLANS AND AS SET FORTH IN THE COVENANT.

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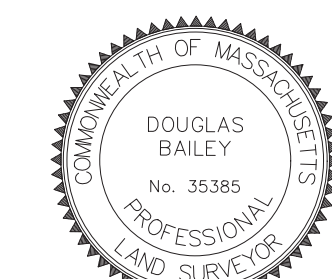
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Douglas Bailey 5/19/20
DOUGLAS BAILEY P.L.S. #35385 DATE



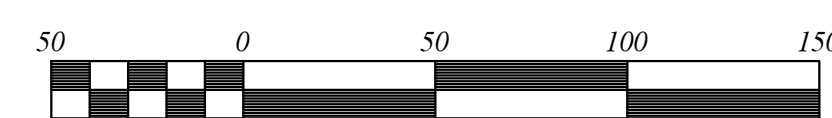
DEFINITIVE SUBDIVISION PLAN
OLD CART PATH LANE EXT.
(70 OLD CART PATH LANE)
PEMBROKE, MASSACHUSETTS

PREPARED FOR:
STEPHEN SAIA
70 OLD CART PATH LANE
PEMBROKE, MA 02359

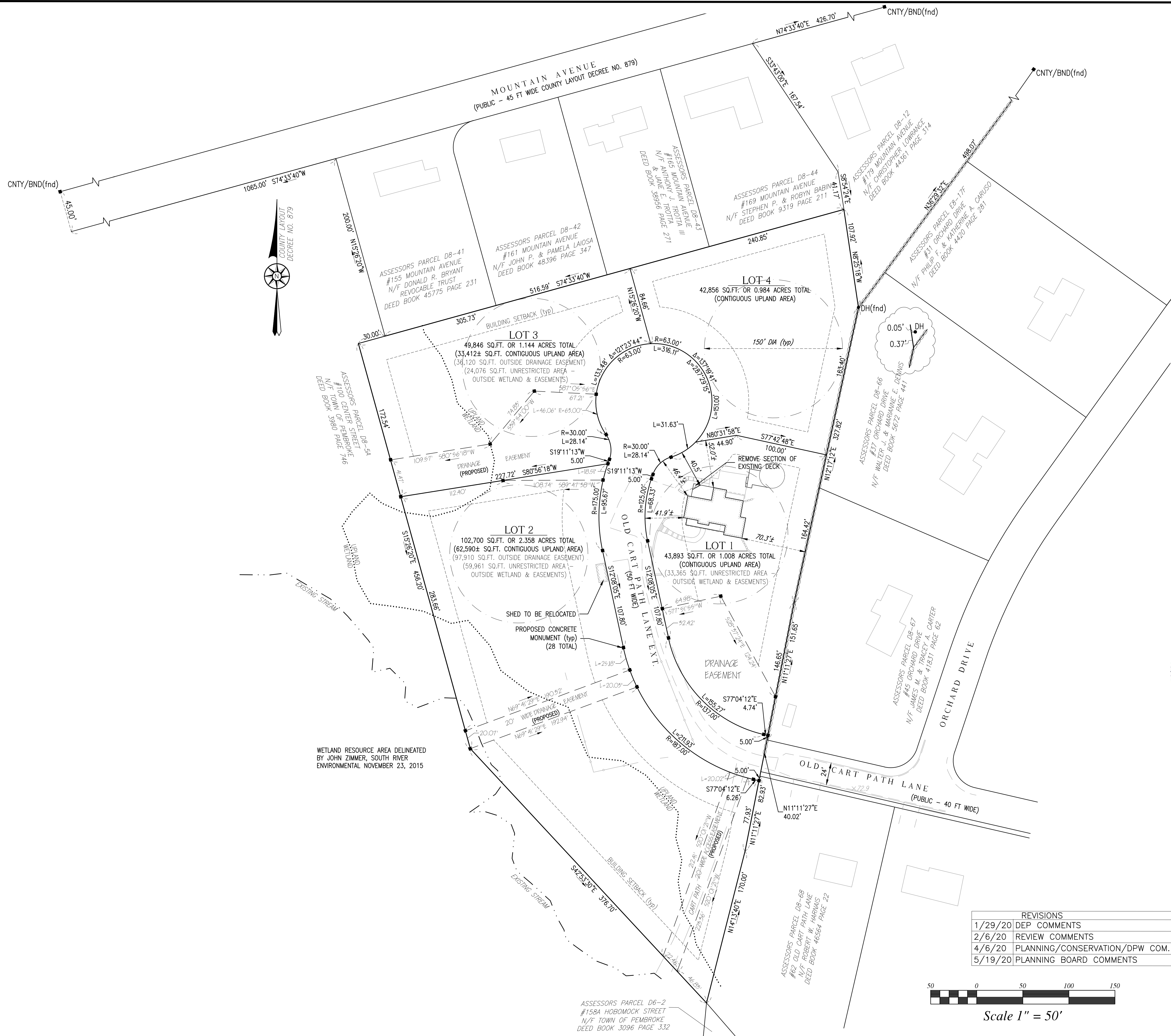
JANUARY 7, 2020
SCALE: AS SHOWN
JOB No. 14-346

GRADY CONSULTING, L.L.C.
Civil Engineers, Land Surveyors & Landscape Architects
71 Evergreen Street, Suite 1, Kingston, MA 02364
Phone (781) 585-2300 Fax (781) 585-2378

REVISIONS	
1/29/20	DEP COMMENTS
2/6/20	REVIEW COMMENTS
4/6/20	PLANNING/CONSERVATION/DPW COM.
5/19/20	PLANNING BOARD COMMENTS



Scale 1" = 50'



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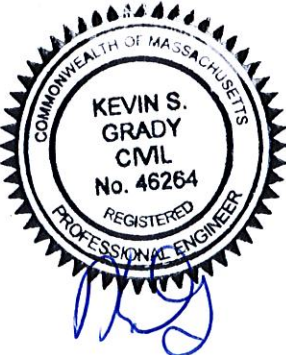
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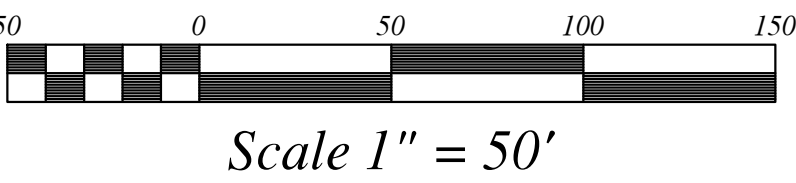
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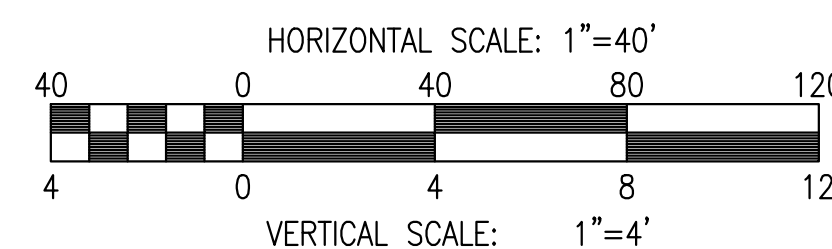
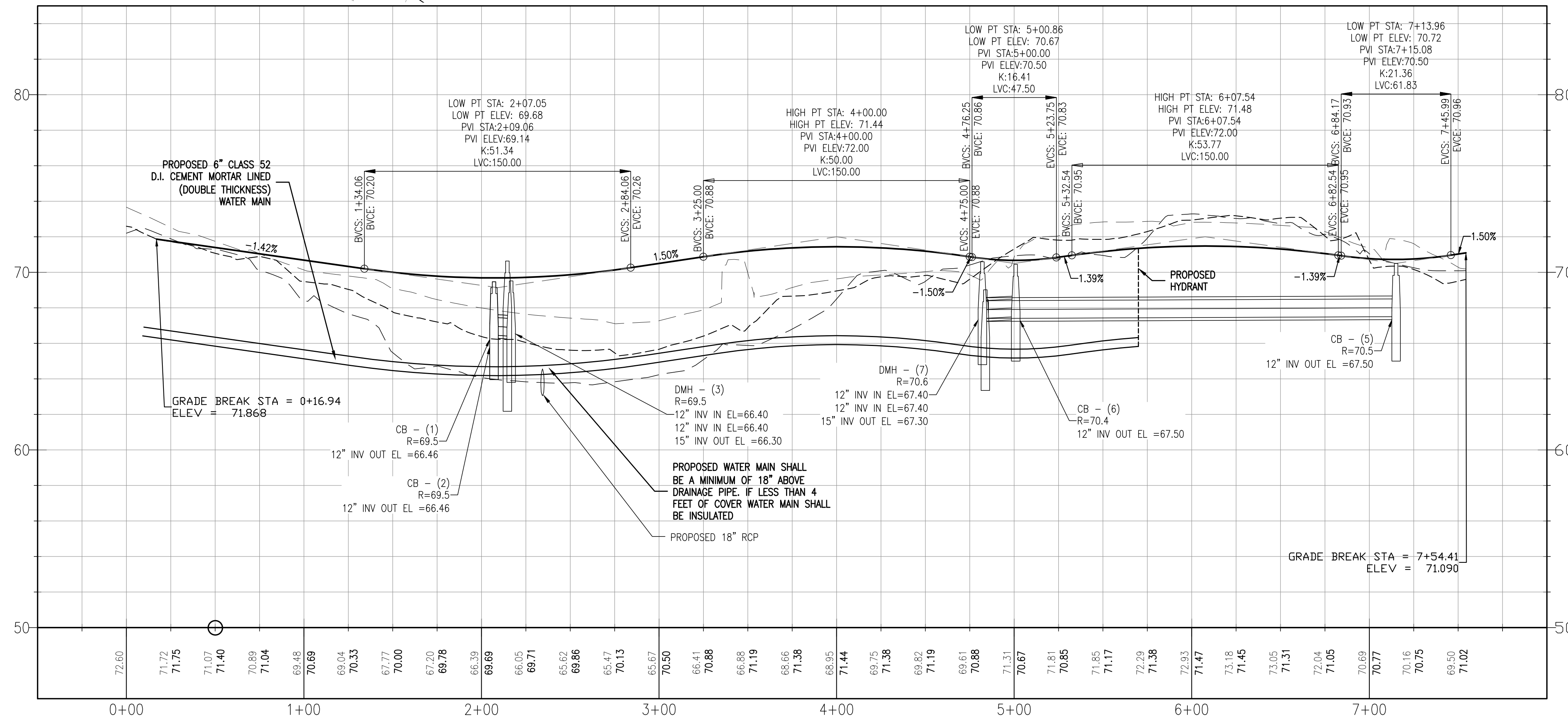
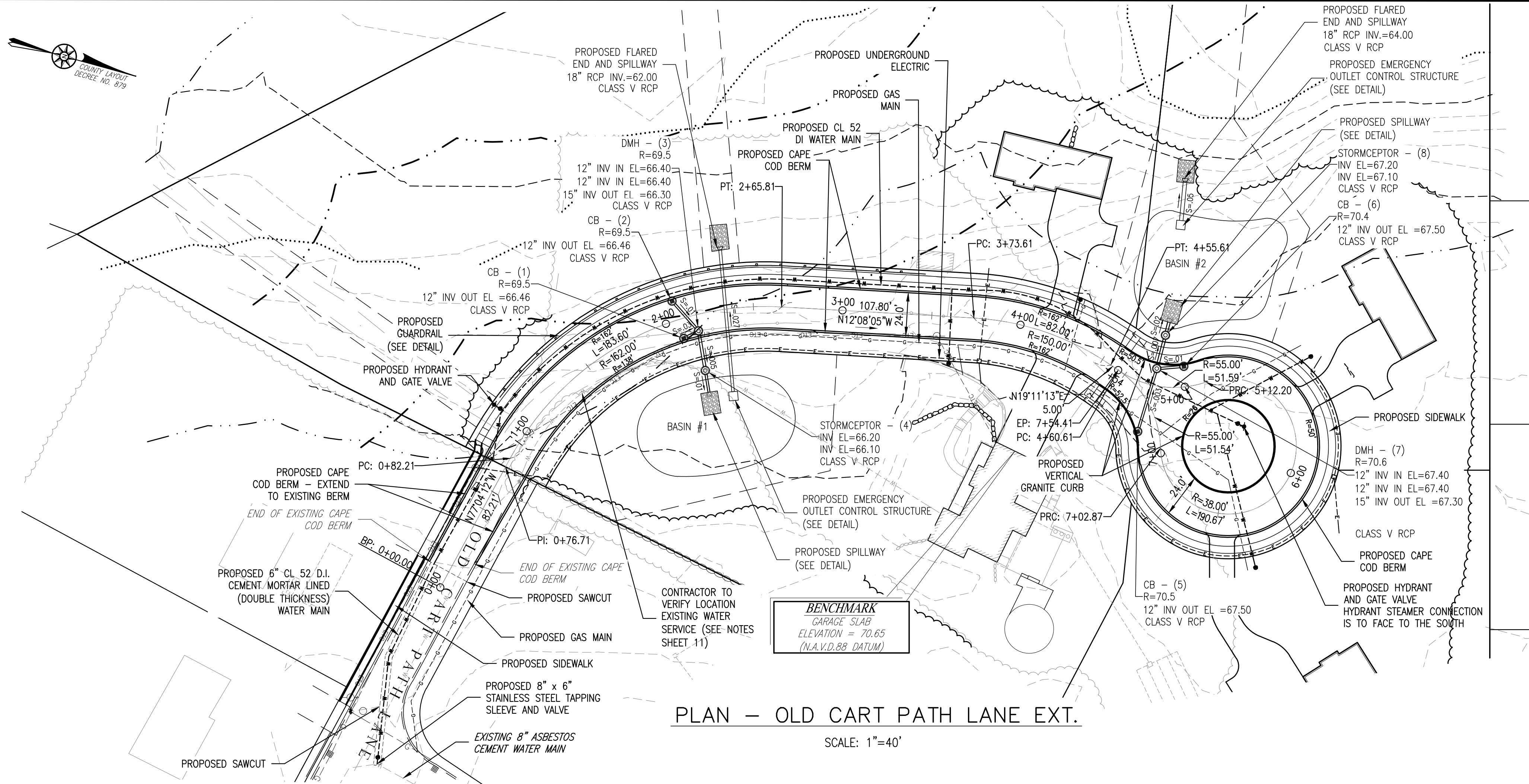
PREPARED FOR:
STEPHEN SAIA
70 OLD CART PATH LANE
PEMBROKE, MA 02359

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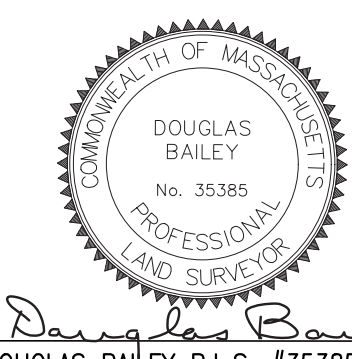
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DEFINITIVE SUBDIVISION PLAN

OLD CART PATH LANE EXT.

(70 OLD CART PATH LANE)

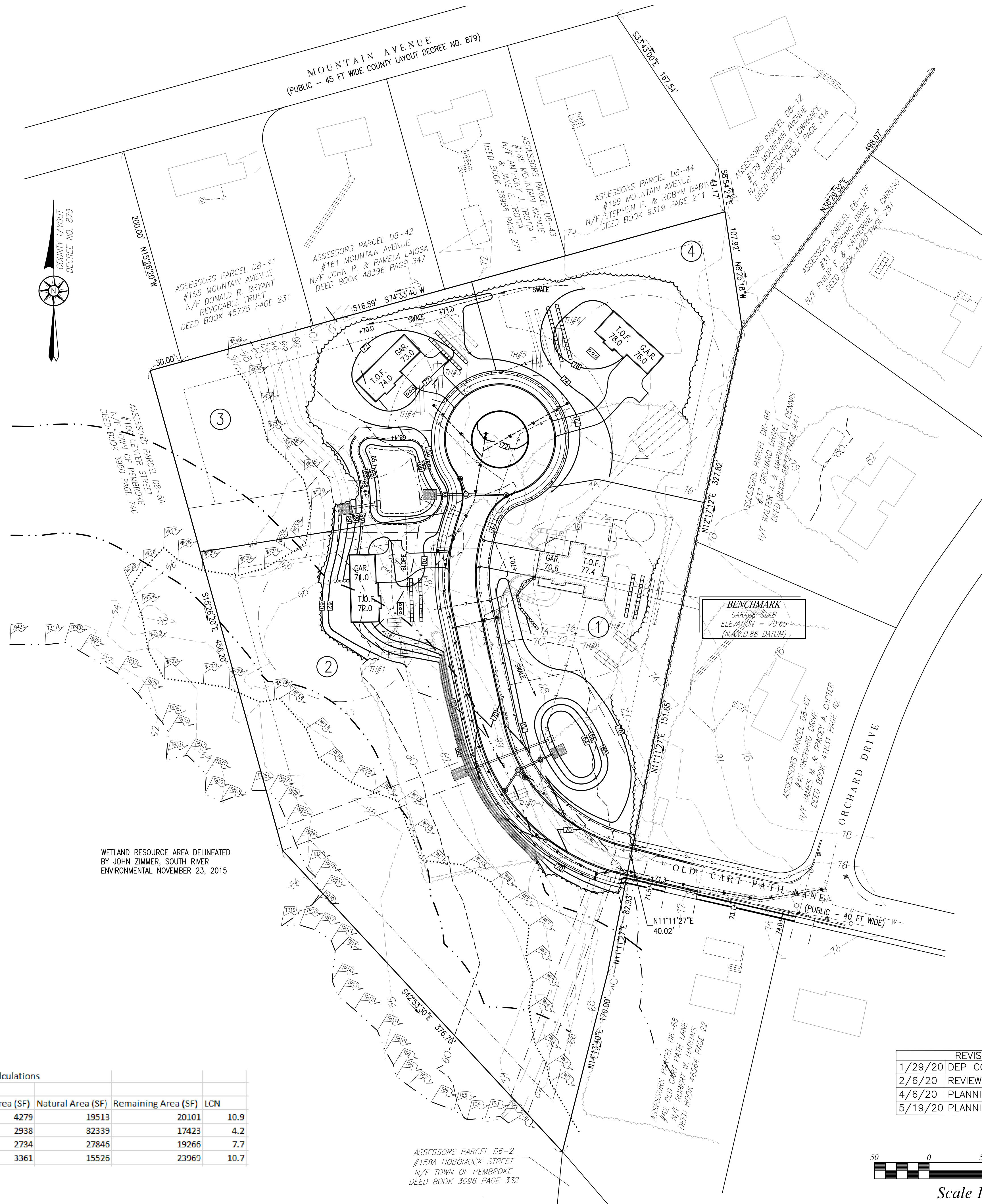
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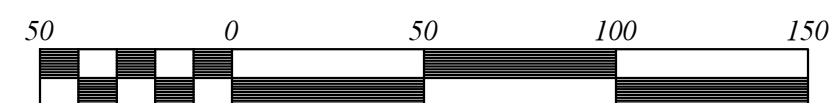
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PLAN & PROFILE



Lot Characterization Number (LCN) Calculations				
Refer to ZBL Section V.10.				
	Lot Area (SF)	Impervious Area (SF)	Natural Area (SF)	Remaining Area (SF)
1	43893	4279	19513	20101
2	102700	2938	82339	17423
3	49846	2734	19266	27846
4	42856	3361	15526	23969

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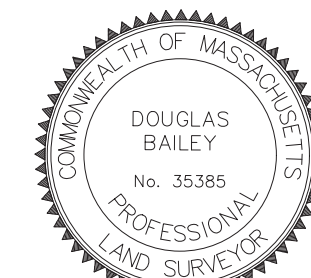
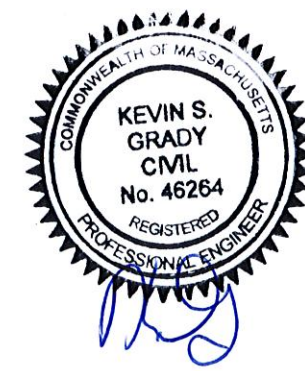
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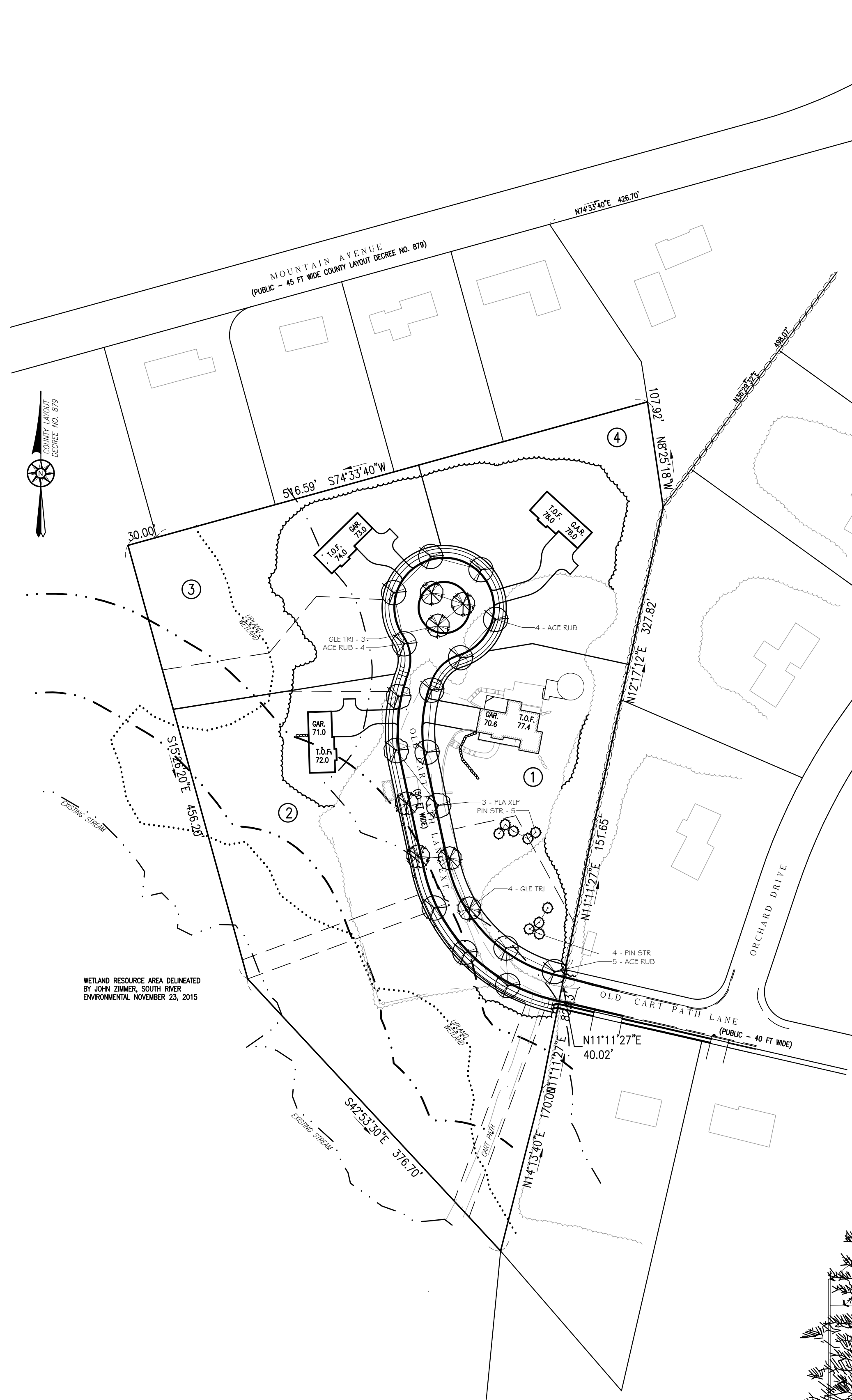
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LOT DEVELOPMENT



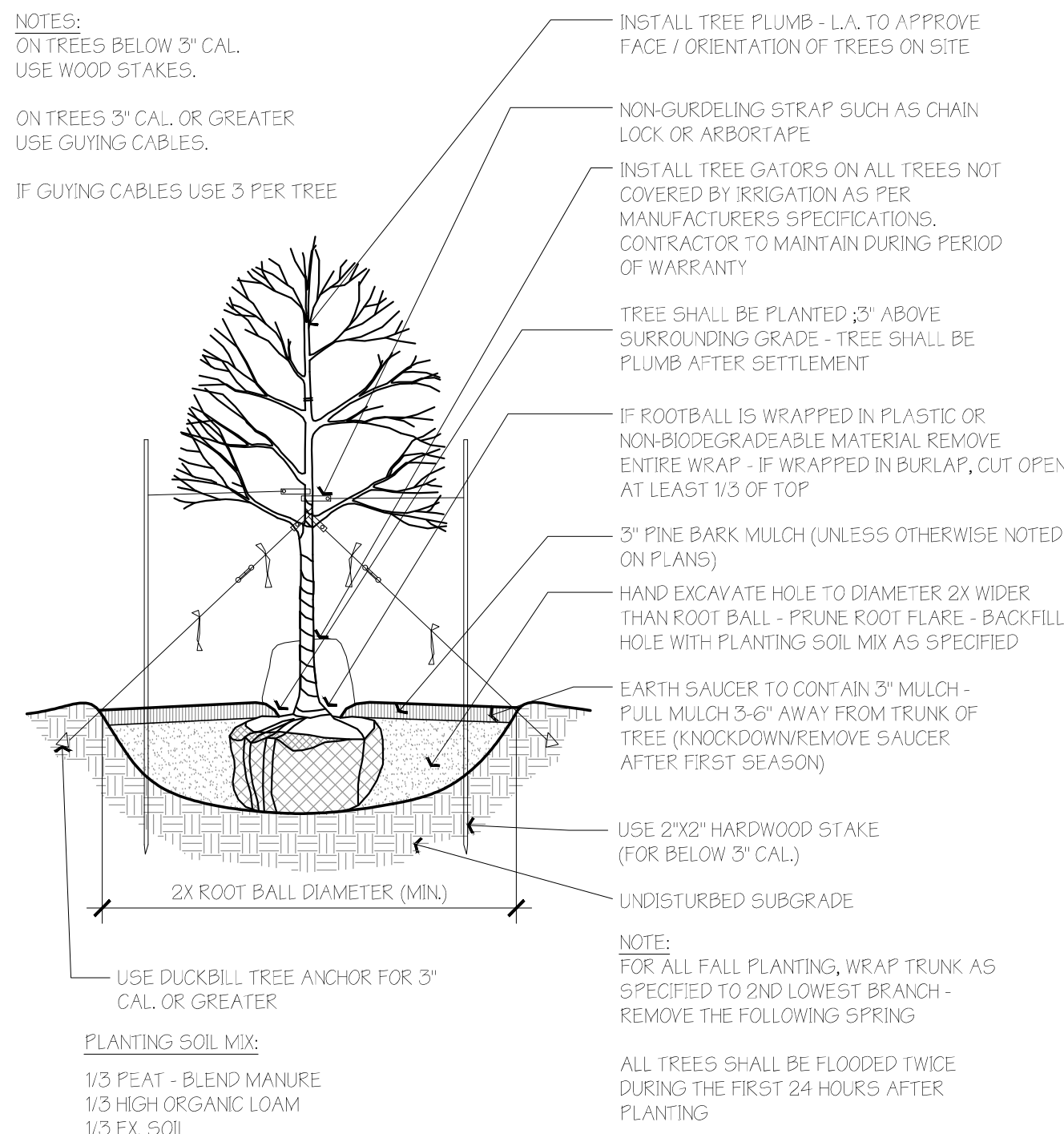
PLANT SCHEDULE

DECIDUOUS TREES	QTY.	BOTANICAL / COMMON NAME	CONT.	CAL.	SIZE
ACE RUB	13	ACER RUBRUM 'RED SUNSET' / RED SUNSET MAPLE	B & B	3"	2020-05-19 10:32
GLE TRI	7	GLEDITSIA TRIACANTHOS INERMIS / THORNLESS COMMON HONEYLOCUST	B & B	3"	
PLA XLP	3	PLATANUS X ACERIFOLIA / LONDON PLANE TREE	B & B	3"	
EVERGREEN TREES	QTY.	BOTANICAL / COMMON NAME	CONT.	CAL.	SIZE
PIN STR	9	PINUS STROBUS / WHITE PINE	B & B		7-8' HGT.

PLANTING NOTES

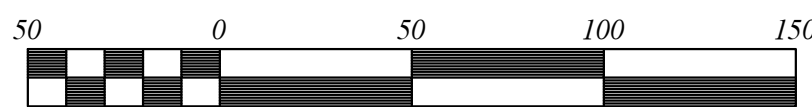
- NOTIFY DIG-SAFE AND LOCAL AUTHORITIES PRIOR TO ANY TYPE OF SITE PREPARATION OR CONSTRUCTION
- ALL PLANTS TO HAVE THE SAME RELATIONSHIP TO FINISH GRADE AFTER SETTLEMENT AS TO THEIR ORIGINAL GRADE BEFORE DIGGING. LOCATE PLANT COLLAR TWO OR THREE INCHES HIGHER THAN PLANTING SOIL MIX TO INSURE CORRECT FINAL RELATIONSHIP.
- APPLY AN APPROVED ANTI-DESSICANT TO ALL PLANTS IN LEAF AT PLANTING TIME, AND TO ALL EVERGREENS BEFORE THEIR FIRST WINTER.
- FLOOD ALL PLANTS WITH CLEAN WATER TWICE IN THE FIRST 24 HOURS AFTER PLANTING. CONTRACTOR TO ARRANGE FOR ALL PLANTS TO BE PLANTED WITHIN THREE DAYS AFTER DELIVERY TO THE SITE UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT.
- NEVER CUT A LEADER.
- TRIM ONLY BROKEN OR DEAD BRANCHES FROM EVERGREEN PLANTS.
- THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL AND MULCH IN SUFFICIENT QUANTITIES TO COMPLETE PLANTING AS SHOWN ON THE DRAWINGS. DRAWING QUANTITIES TAKE PRECEDENCE OVER PLANT LIST QUANTITIES.
- ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES BY "THE AMERICAN STANDARD FOR NURSERY STOCK," PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- ALL TREES SHALL HAVE "BEST FACE" SIDE TAGGED AT NURSERY PRIOR TO DIGGING.
- ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT.
- CONTRACTOR TO STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT.
- LANDSCAPE ARCHITECT TO APPROVE IN PLACE ALL SHRUBS, PERENNIALS AND VINES PRIOR TO PLANTING.
- ALL TREES TO RECEIVE A MINIMUM OF THREE INCHES OF MULCH. ALL SHRUBS, VINES AND GROUND COVERS TO RECEIVE A MINIMUM OF TWO INCHES OF MULCH.
- WHERE SPECIFIED, CALIPER SIZE TO BE OVERRIDING FACTOR IN TREE SELECTION.
- STAKE OR GUY ALL TREES AND LARGE EVERGREEN MATERIAL.
- CONTRACTOR TO PROVIDE TWO YEAR GUARANTEE ON ALL MATERIAL. CONTRACTOR TO MAINTAIN ALL PLANTING AND LAWNS UNTIL FINAL PROJECT ACCEPTANCE. GUARANTEE PERIOD TO BEGIN AT FINAL ACCEPTANCE.
- ALL PLANT MATERIAL SHALL BE INSTALLED PRIOR TO FINAL TOP-DRESSING AND SODDING/SEEDING.
- COORDINATE LANDSCAPE INSTALLATION WITH INSTALLATION OF UNDERGROUND SPRINKLER SYSTEM & LANDSCAPE LIGHTING (IF APPLICABLE).
- NO PLANTING BEFORE THE ACCEPTANCE OF ROUGH GRADING.
- CONTRACTOR TO PROVIDE SOIL TESTS IN AREAS DESIGNATED BY LANDSCAPE ARCHITECT IN FIELD FOR EXISTING SOILS TO DETERMINE APPROPRIATE SOIL AMENDMENTS PRIOR TO THE DISTURBANCE OF SITE.
- ALL PLANTING BEDS TO BE TREATED WITH PREEN AND GREEN OR APPROVED EQUAL TO PROHIBIT WEED GERMINATION AND GROWTH PRIOR TO THE SPREADING OF MULCH.
- ALL PERENNIALS ARE TO BE PLANTED INTO DAMP SOIL.
- PLANT LIST: A COMPLETE LIST OF PLANTS INCLUDING A SCHEDULE OF QUANTITIES, SIZES, TYPES AND NAMES IS INCLUDED IN THIS SET OF DRAWINGS. IN THE EVENT OF DISCREPANCIES BETWEEN QUANTITIES OF PLANTS IN THE PLANT LIST AND THE QUANTITIES SHOWN ON THE DRAWINGS, THE PLAN SHALL GOVERN. WHEN MULTIPLE PLANT SPECIES ARE LISTED IN ONE PLANT CATEGORY, THE GOAL IS TO PROVIDE THE BEST PLANTS AVAILABLE AT THE TIME OF INSTALLATION. THE LANDSCAPE ARCHITECT SHALL SELECT OR COORDINATE THE SELECTION OF THE APPROPRIATE PLANTS AT LOCAL NURSERIES. GRADY CONSULTING HAS THE RIGHT TO REJECT ANY PLANT THAT DOES NOT MEET THE SPECIFICATIONS LISTED IN THE PLANT TABLE.
- PLANT SUBSTITUTION ARE NOT ALLOWED UNLESS APPROVED BY LANDSCAPE ARCHITECT.
- ALL DISTURBED AREAS TO BE LOAMED AND SEEDED AND BLENDED INTO EXISTING GRADE AND CONDITIONS (REFER TO ENGINEER'S SOIL STABILIZATION AND EROSION CONTROL PLAN FOR FURTHER INFORMATION).
- CONTRACTOR SHALL (IF APPLICABLE) REVIEW WITH CLIENT ALL IRRIGATION PROCEDURES AND PROCESSES (i.e. TIMERS, ZONES AND ALL OTHER ITEMS INVOLVED W/ THE IRRIGATION SYSTEM).

SECTION V.V. STREET TREES
STREET TREES NOT LESS THAN 3" CALIPER 3' FROM GRADE AND OF A SPECIES APPROVED BY THE PLANNING BOARD SHALL BE PLANTED ON EACH SIDE OF EVERY STREET IN THE SUBDIVISION WHEREVER, IN THE OPINION OF THE PLANNING BOARD, EXISTING WOODLANDS OR SUITABLE INDIVIDUAL TREES ARE NOT RETAINED. TREES SHALL BE LOCATED INSIDE THE LAYOUT NOT GREATER THAN 60 FEET APART IN THE LAYOUT WITH NOT FEWER THAN TWO TREES PER LOT. TREES ARE TO BE PLANTED 15 MONTHS PRIOR TO SIGNING OF THE AS-BUILT PLAN. TYPES OF TREES, WHICH WILL BE ACCEPTED, ARE: LOCUSTS, CRIMSON KING MAPLES, ORNAMENTAL BROADFORD PEARS AND LITTLE LEAF LINDENS. ALL TREES SHALL BE GUARANTEED FOR ON FULL YEAR AFTER ACCEPTANCE OF AS-BUILT PLAN. A ROOT SHIELD SHALL BE PLACED 12 INCHES DOWN AND 1 INCH BELOW GRADE FOR A DISTANCE OF 3 TO 4 FEET ON THE SIDEWALK SIDE.



1 SHADE / FLOWERING TREE DETAIL

2 EVERGREEN TREE DETAIL



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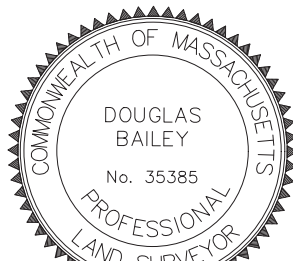
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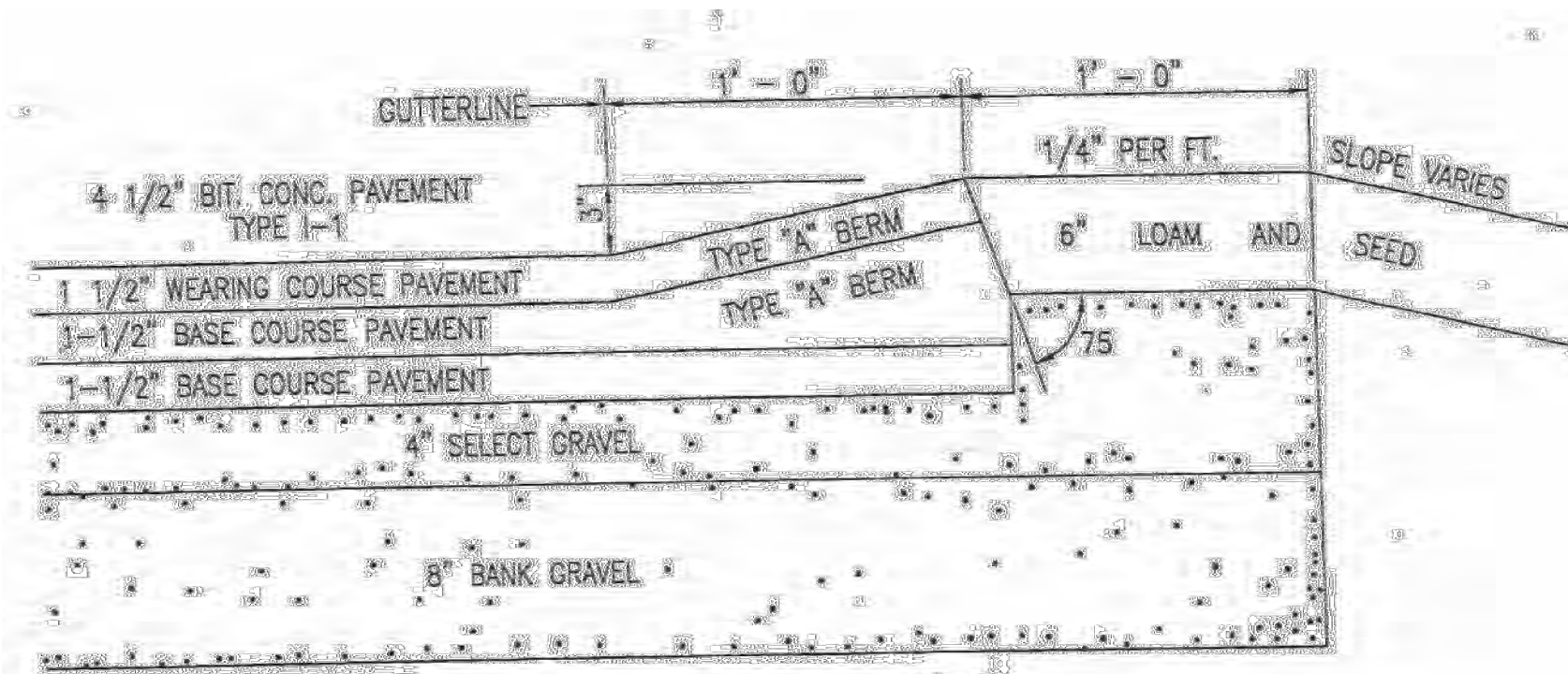
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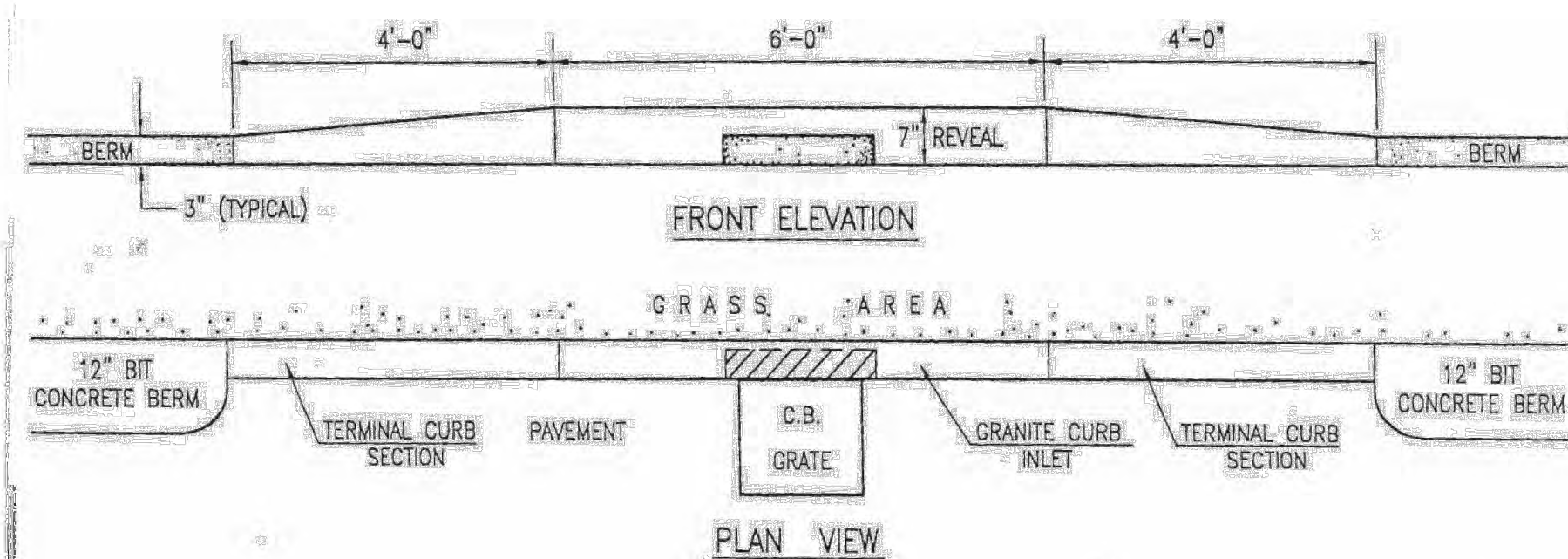
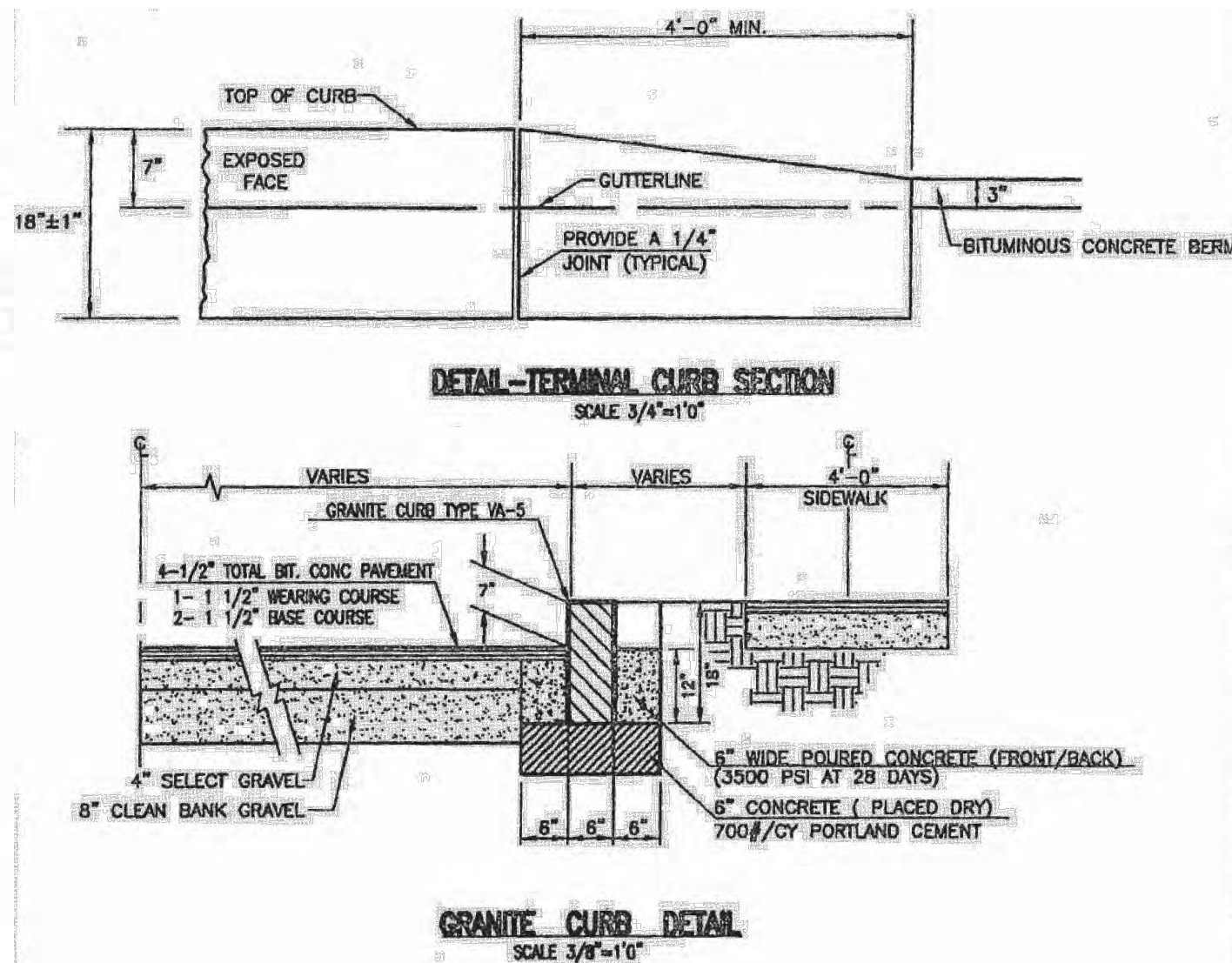
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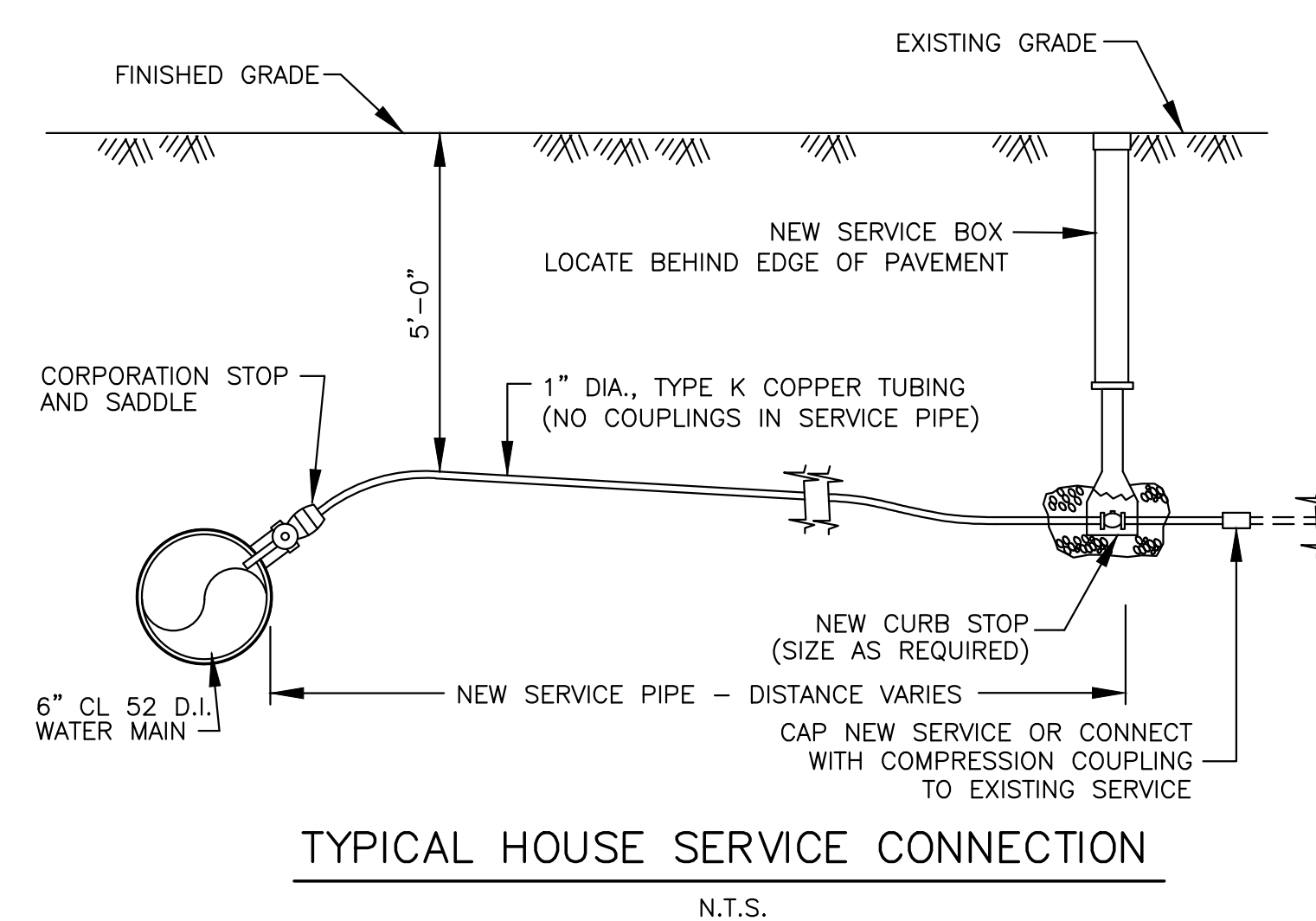
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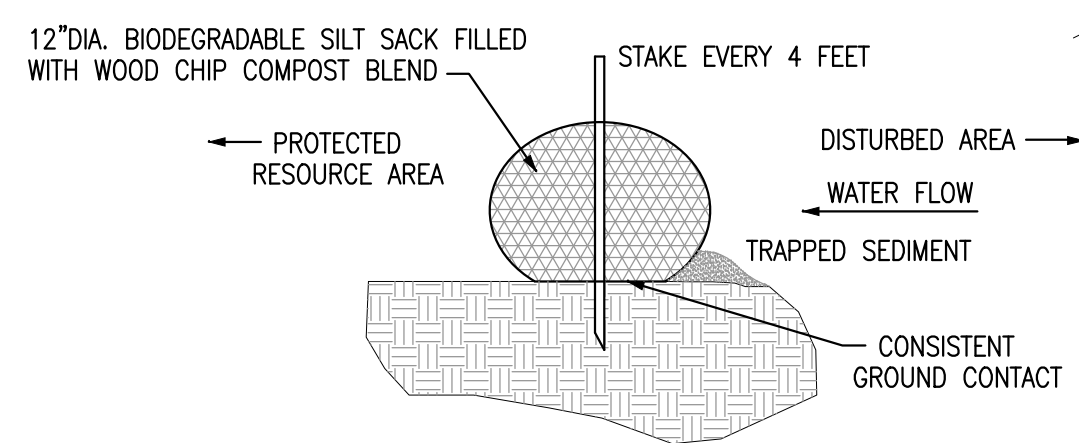
NOTE:
BITUMINOUS CONCRETE BERM SHALL BE CONSTRUCTED MONOLITHICALLY USING BOTH THE 3\"/>



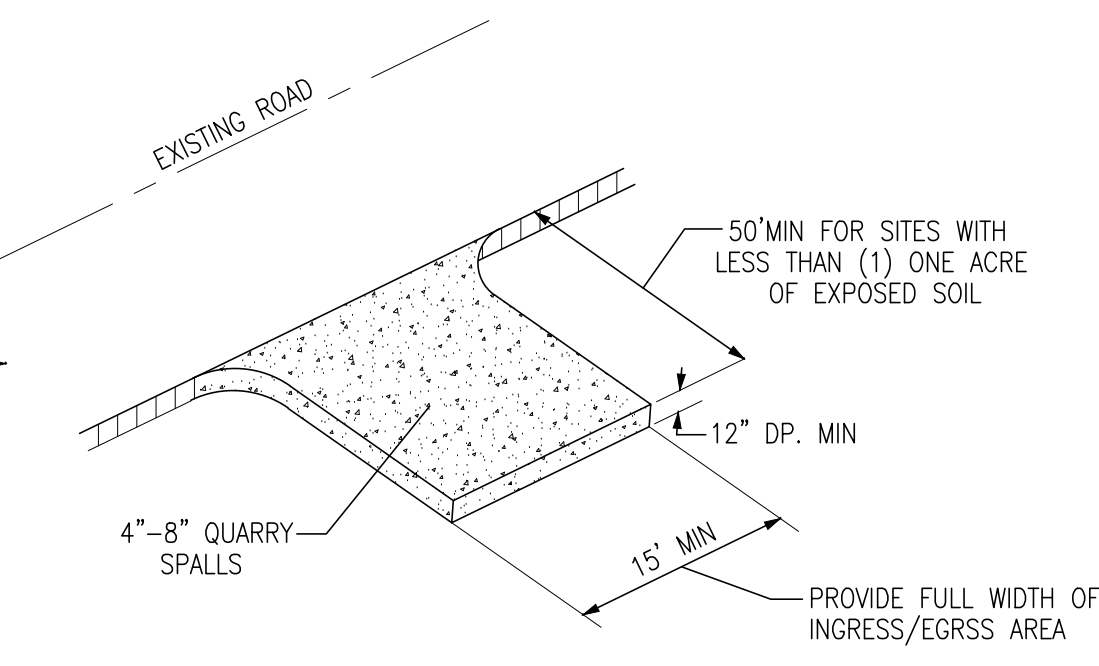
**TYPICAL GRANITE CURB INLET INSTALLATION
WITH BITUMINOUS CONCRETE BERM**
(NOT TO SCALE)



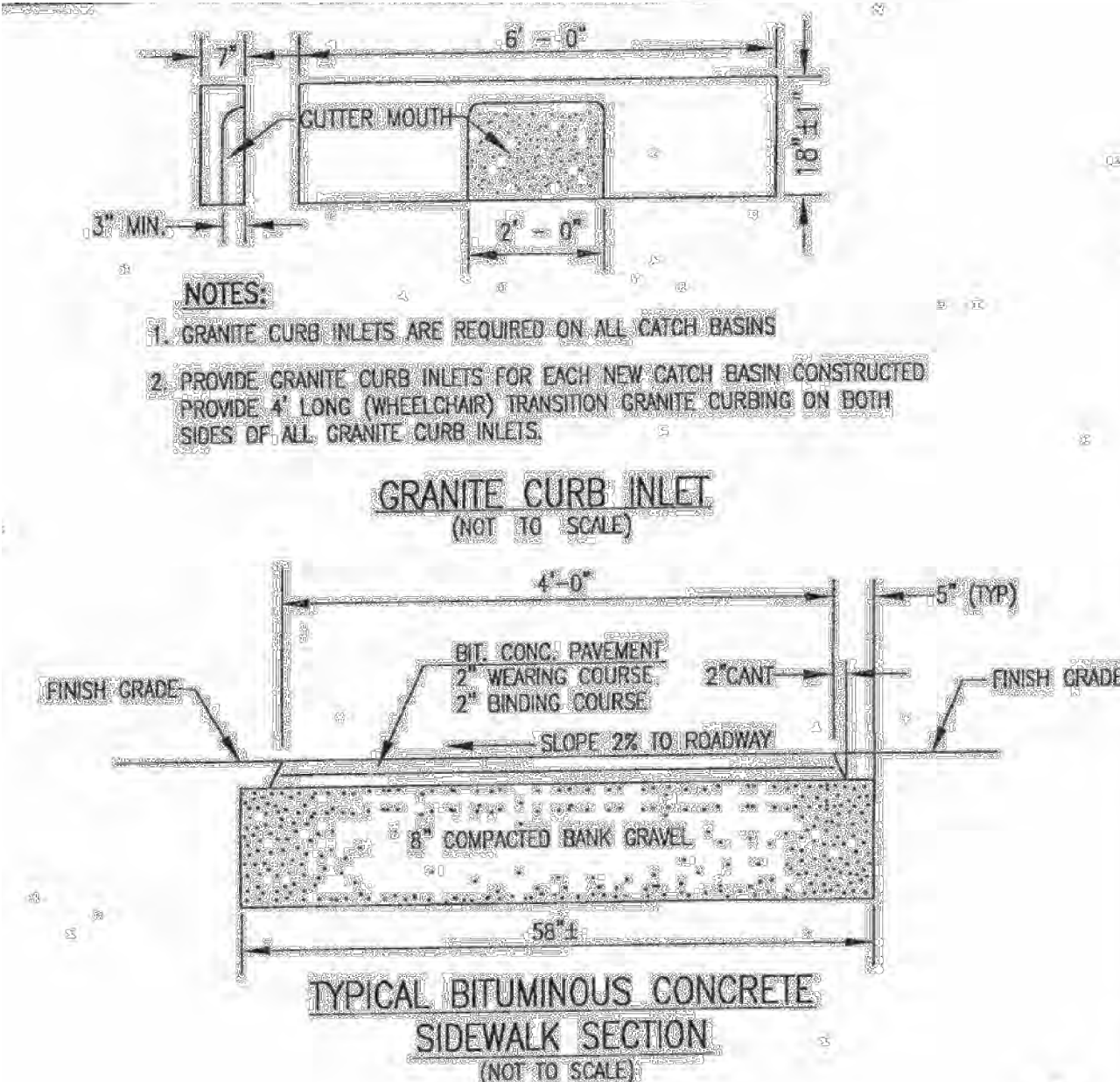
TYPICAL HOUSE SERVICE CONNECTION
N.T.S.



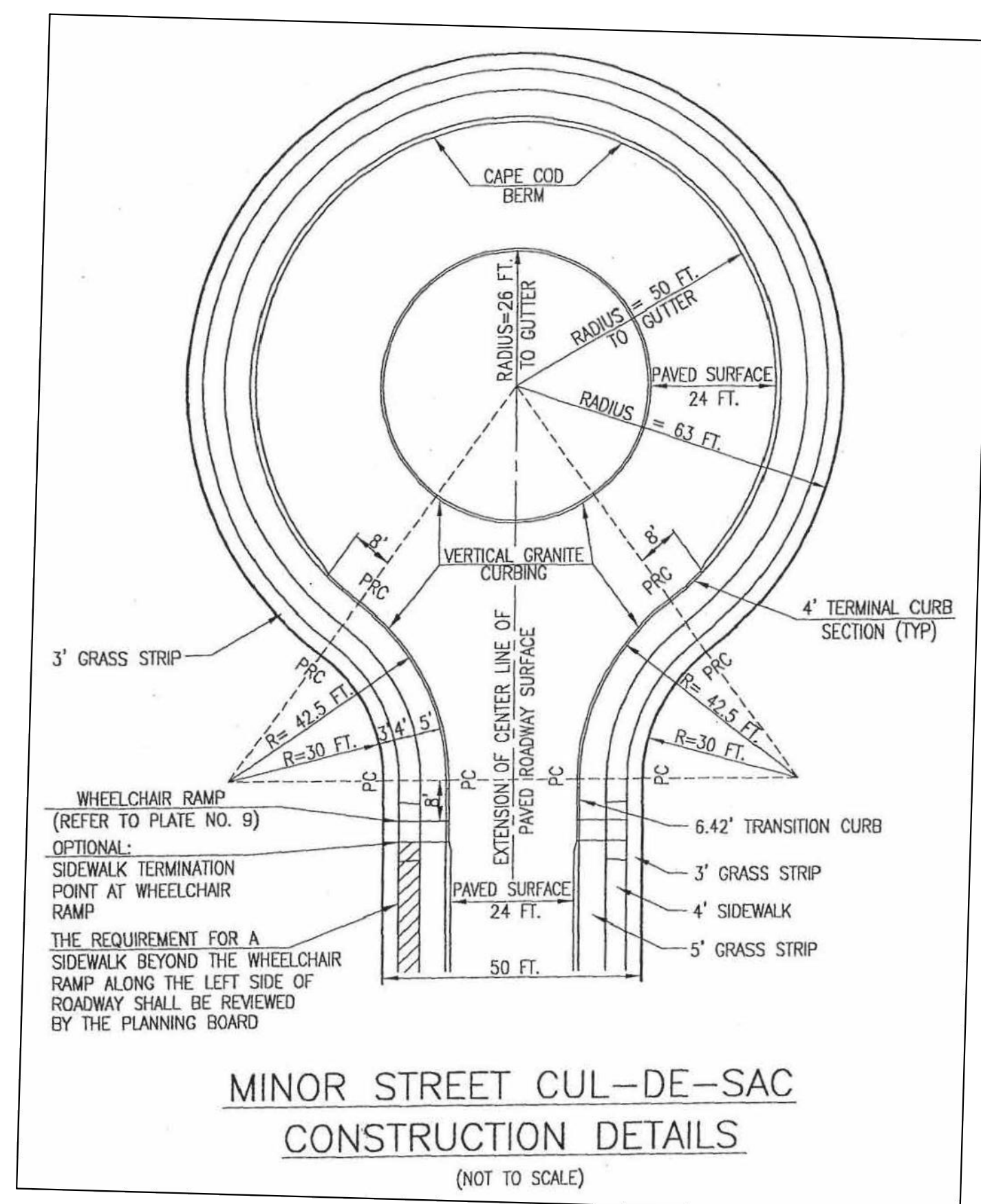
SILT SOCK DETAIL
NOT TO SCALE



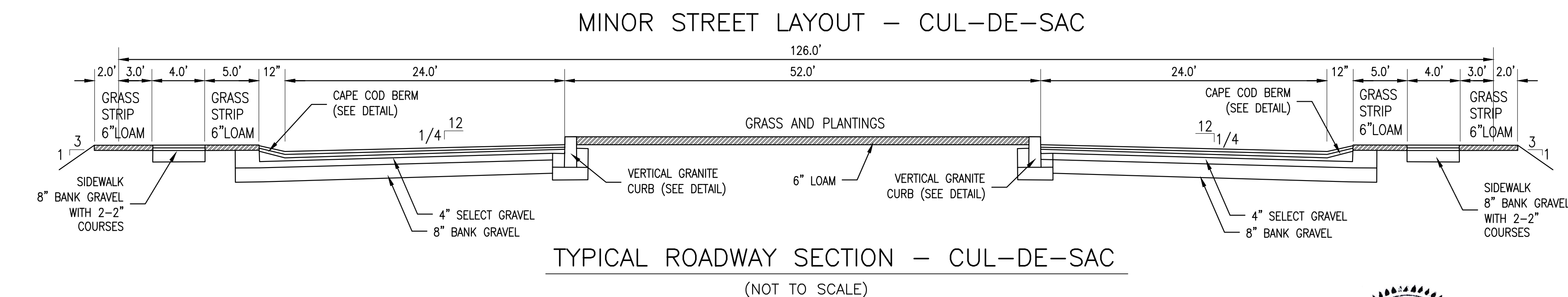
STONE CONSTRUCTION ENTRANCE
(NOT TO SCALE)



**TYPICAL BITUMINOUS CONCRETE
SIDEWALK SECTION**
(NOT TO SCALE)

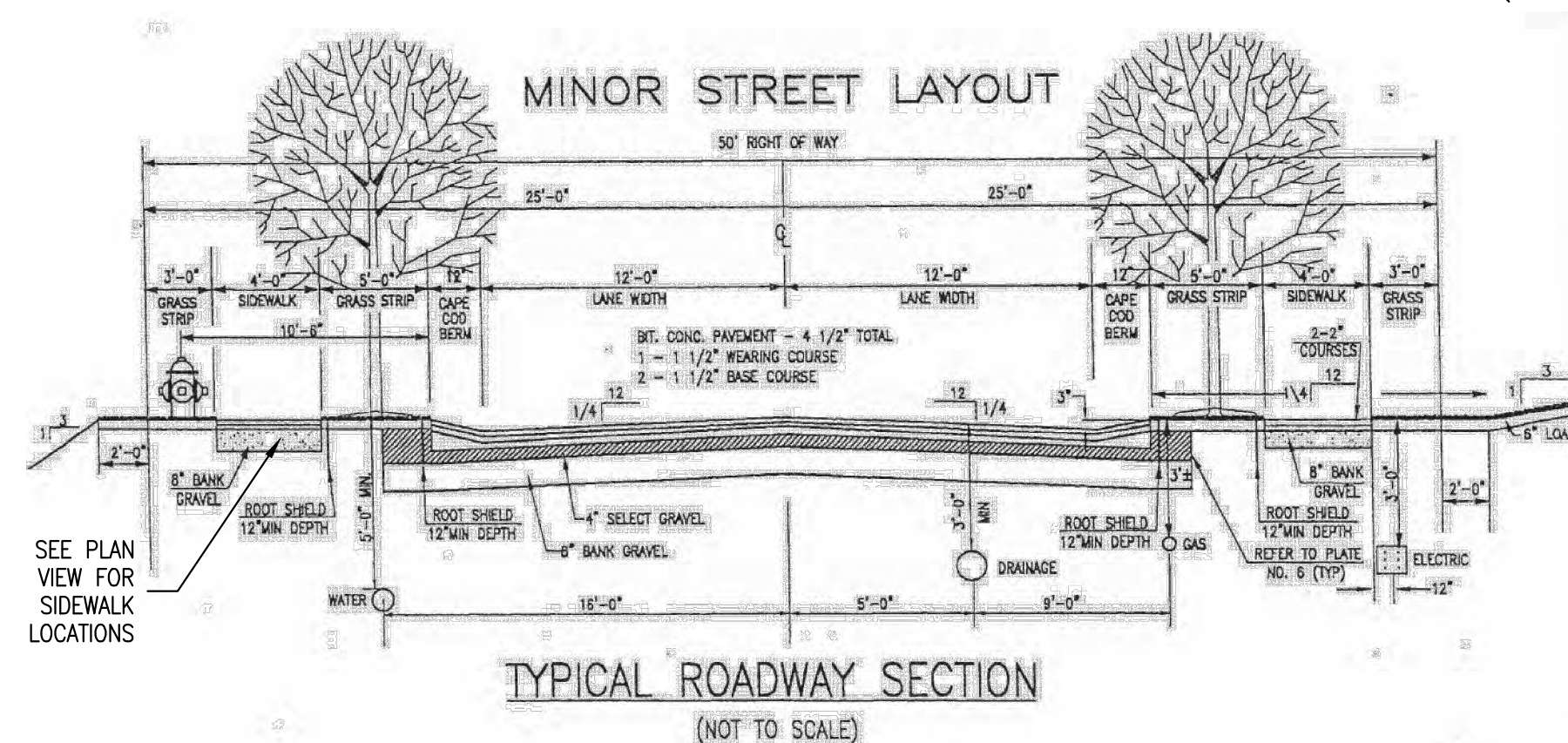


**MINOR STREET CUL-DE-SAC
CONSTRUCTION DETAILS**
(NOT TO SCALE)

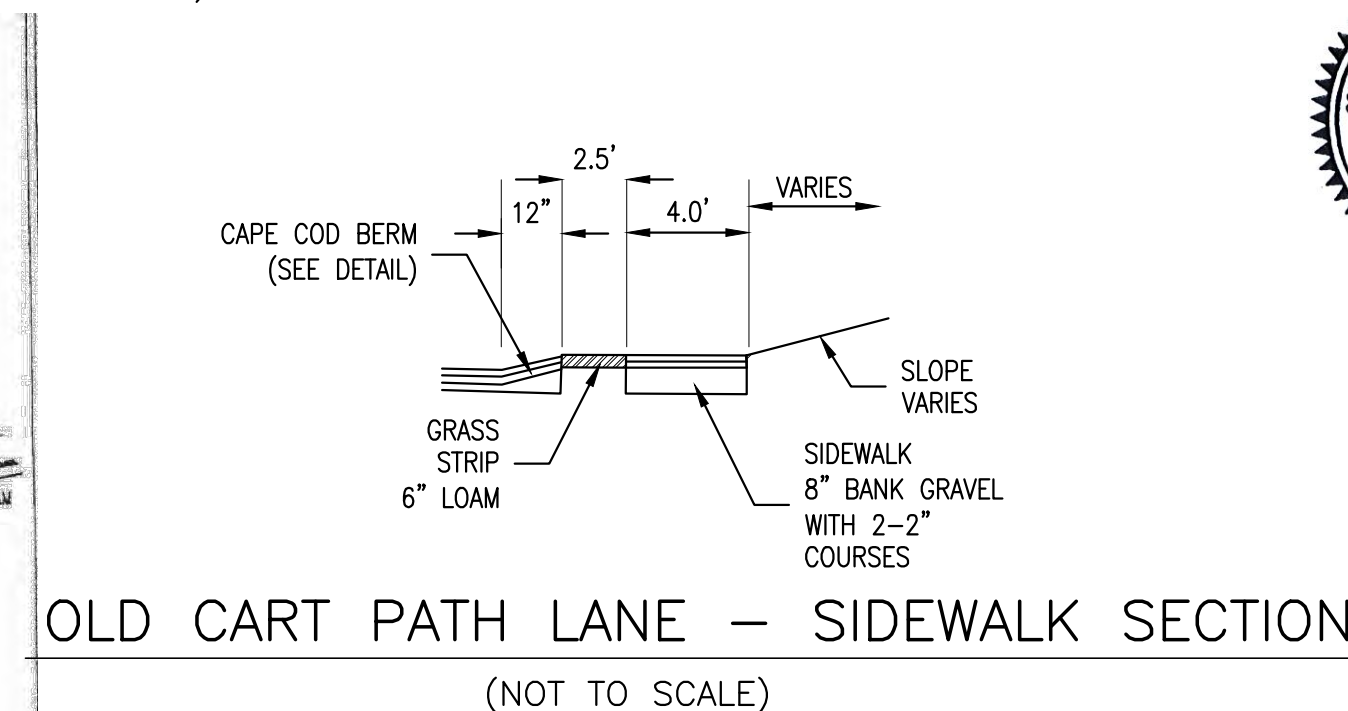


MINOR STREET LAYOUT - CUL-DE-SAC

TYPICAL ROADWAY SECTION - CUL-DE-SAC
(NOT TO SCALE)



TYPICAL ROADWAY SECTION
(NOT TO SCALE)



OLD CART PATH LANE - SIDEWALK SECTION
(NOT TO SCALE)



DEFINITIVE SUBDIVISION PLAN OLD CART PATH LANE EXT. (70 OLD CART PATH LANE) PEMBROKE, MASSACHUSETTS

PREPARED FOR:
STEPHEN SAIA
70 OLD CART PATH LANE
PEMBROKE, MA 02359

JANUARY 7, 2020
SCALE: AS SHOWN
JOB No. 14-346

GRADY CONSULTING, L.L.C.
*Civil Engineers, Land Surveyors &
Landscape Architects*
71 Evergreen Street, Suite 1, Kingston, MA 02364
Phone (781) 585-2300 Fax (781) 585-2378

REVISIONS	
1/29/20	DEP COMMENTS
2/6/20	REVIEW COMMENTS
4/6/20	PLANNING/CONSERVATION/DPW COM.
5/19/20	PLANNING BOARD COMMENTS

FOR REGISTRY USE ONLY

PEMBROKE PLANNING BOARD

APPROVED CONDITIONALLY SUBJECT TO THE COMPLETION OF ALL
REQUIRED GROUNDWORK AS SHOWN ON THESE PLANS AND AS SET
FORTH IN THE COVENANT.

DATE APPROVED: _____

DATE SIGNED: _____

THIS APPROVAL IS SUBJECT TO A COVENANT DULY EXECUTED DATED
THE _____ DAY OF _____ 2020, RUNNING WITH THE
LAND TO BE DULY RECORDED BY OR FOR THE OWNER OF THE
RECORD.

THIS PLAN IS SUBJECT TO ALL CONDITIONS OF THE PEMBROKE PLANNING BOARD
CERTIFICATE OF ACTION DATED _____ FILED WITH THE PEMBROKE TOWN
CLERK ON _____ AND HEREWITH RECORDED AS PART OF THIS PLAN.

PEMBROKE TOWN CLERK

I HEREBY CERTIFY THAT THERE HAS BEEN NO APPEAL TAKEN TO THIS PLANNING
BOARD ACTION DURING THE TWENTY DAY STATUTORY APPEAL PERIOD.

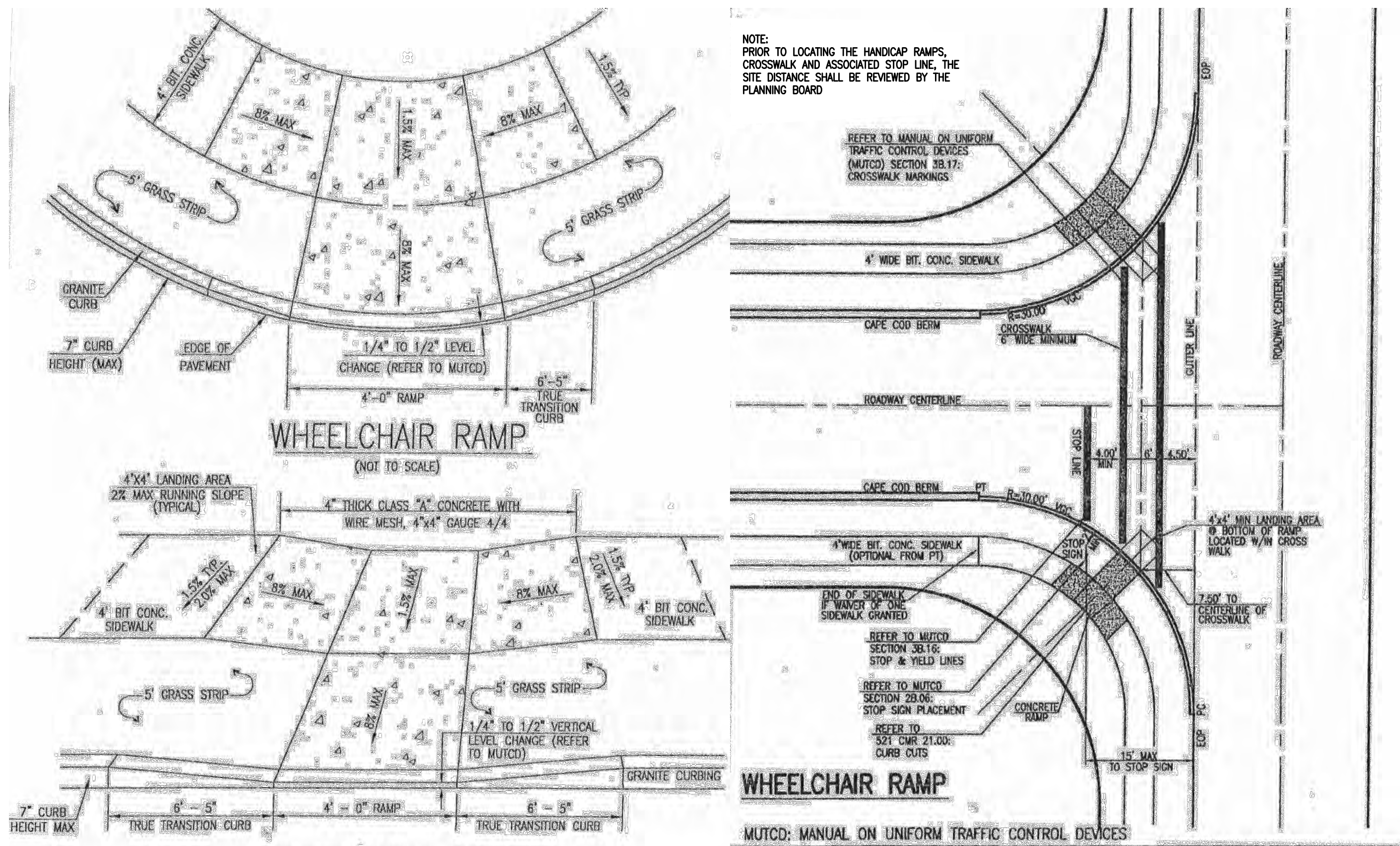
DATE: _____

TOWN CLERK, TOWN OF PEMBROKE

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH
THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH
OF MASSACHUSETTS.



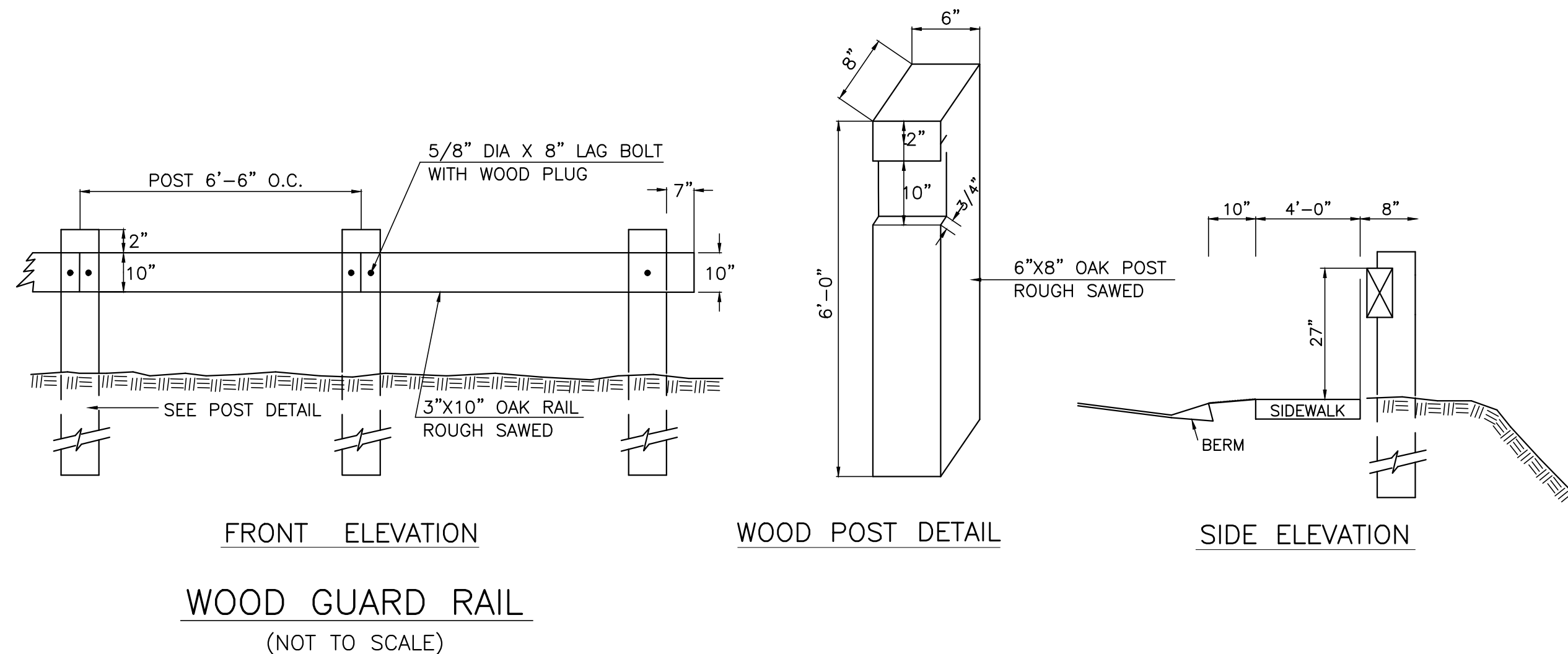
Douglas Bailey
DOUGLAS BAILEY P.L.S. #35385
DATE 5/19/20



SOIL LOGS

T.H.#1 EL. 61.5	T.H.#2 EL. 63.3	T.H.#3 EL. 70.2	T.H.#4 EL. 70.1	T.H.#5 EL. 73.1	T.H.#6 EL. 73.0	T.H.#7 EL. 73.5	T.H.#8 EL. 70.5	T.H. D-1 EL. 65.8
0'-20" FILL LOAM 59.83	0'-6" A LOAM 62.80	0'-6" A LOAM 69.70	0'-6" A LOAM 69.60	0'-6" A LOAM 72.60	0'-6" A LOAM 72.60	0'-6" A LOAM 73.00	0'-6" A LOAM 70.00	0'-6" A LOAM 65.30
20'-24" A LOAM 59.50	6'-24" B LOAMY SAND 61.30	6'-24" B LOAMY SAND 68.20	6'-24" B LOAMY SAND 68.10	6'-24" B LOAMY SAND 71.10	6'-24" B LOAMY SAND 71.10	6'-24" B LOAMY SAND 71.50	6'-24" B LOAMY SAND 68.50	6'-24" B LOAMY SAND 63.80
24'-36" B LOAMY SAND 58.50	24'-144" C1 GRAVELLY COARSE SAND 52.50	24'-144" C1 FINE SAND 58.20	24'-150" C FINE SAND 57.60	24'-132" C1 FINE LOAMY SAND 62.10	24'-144" C FINE LOAMY SAND 62.10	24'-80" C1 FINE SAND 66.83	24'-120" C1 FINE SAND 60.50	24'-66" C1 GRAVELLY SAND 60.30
36'-54"/108" C1 GRAVELLY COARSE SAND 57.00	PERC @ 32"-50" P.R.<2 MIN/IN	PERC @ 30"-48" P.R.<2 MIN/IN	PERC @ 36"-54" P.R.<2 MIN/IN	PERC @ 36"-54" P.R.<2 MIN/IN	PERC @ 36"-54" P.R.<2 MIN/IN	PERC @ 36"-54" P.R.<2 MIN/IN	PERC @ 30"-48" P.R.<2 MIN/IN	66'-84" C2 MEDIUM SAND 58.80
54'/108"-168" C2 FINE LOAMY SAND 47.50	D= 12'-0" MOTTLING @ 6'-0" (EL.=57.30)	D= 12'-0" MOTTLING @ 7'-10" (EL.=62.36)	D= 12'-6" MOTTLING @ 7'-0" (EL.=63.10)	D= 11'-0" MOTTLING @ 4'-6" (EL.=68.60)	D= 12'-0" MOTTLING @ 3'-6" (EL.=69.50)	D= 6'-8" NO WATER	D= 10'-0" MOTTLING @ 6'-0" (EL.=64.50)	84'-120" C3 SILT LOAM 55.80

TH#1-8 AND D-1 PERFORMED BY GRADY CONSULTING LLC, OCTOBER 5, 2017, WITNESSED BY LISA CULLITY



CONSTRUCTION NOTES

GENERAL:

- TOPOGRAPHIC DATA BY GRADY CONSULTING, L.L.C.
- THE ACCURACY OF EXISTING UTILITY LOCATIONS, DIMENSIONS AND LINES IS FROM EXISTING INFORMATION OF RECORD AND IS NOT WARRANTED. CONTRACTOR TO VERIFY PRIOR TO INITIATING CONSTRUCTION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SECURE ALL NECESSARY STATE, MUNICIPAL AND OTHER UTILITY PERMITS AND VERIFY THE PROPOSED LOCATIONS OF UTILITIES WITH UTILITY COMPANIES.
- CONTRACTOR SHALL NOTIFY "DIG SAFE" (1-888-344-7233) AT LEAST 4 DAYS PRIOR TO CONSTRUCTION.
- UNDERGROUND UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE APPROPRIATE DEPARTMENT OR COMPANY. THE CONTRACTOR SHALL NOTIFY THE PEMBROKE D.P.W. (293-5620) AT LEAST 4 DAYS PRIOR TO CONSTRUCTION OF DRAINAGE & WATER SYSTEMS.
- ALL CONSTRUCTION SHALL CONFORM TO TOWN OF PEMBROKE PLANNING BOARD RULES AND REGULATIONS,
- ALL STUMPS SHALL BE DISPOSED OFF SITE AND IN ACCORDANCE WITH DEP

EROSION CONTROL:

- ALL CUT AND FILL AREAS, AND DISTURBED DRAINAGE AREAS ARE TO BE BROUGHT TO FINISHED GRADE WITH A MIN. OF 4" OF LOAM, SEEDED WITH A MIXTURE OF ANNUAL RYEGRASS AND PERENNIAL GRASSES, AND MAINTAINED UNTIL VEGETATION STABILIZES THESE AREAS.
- HAY MULCH, OR OTHER SUITABLE EROSION PROTECTION, SHALL BE UTILIZED ON ALL EXPOSED SLOPES.

FOR REGISTRY USE ONLY

PEMBROKE PLANNING BOARD

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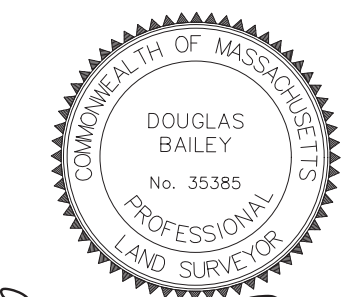
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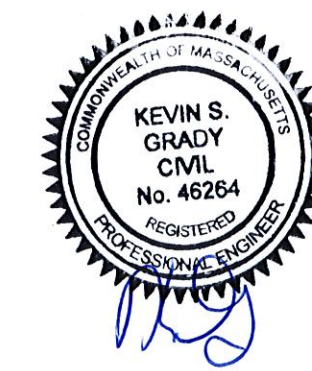
DATE: _____

TOWN CLERK, TOWN OF PEMBROKE

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.



Douglas Bailey 5/19/20
DOUGLAS BAILEY P.L.S. #35385 DATE



DEFINITIVE SUBDIVISION PLAN
OLD CART PATH LANE EXT.
(70 OLD CART PATH LANE)
PEMBROKE, MASSACHUSETTS

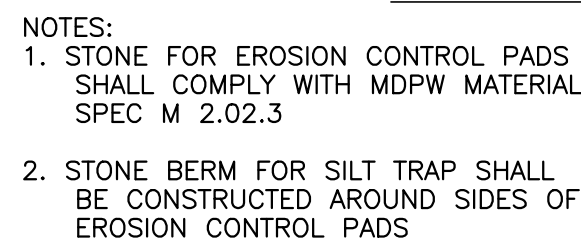
PREPARED FOR:
STEPHEN SAIA
70 OLD CART PATH LANE
PEMBROKE, MA 02359

JANUARY 7, 2020
SCALE: AS SHOWN
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DETAILS

[illegible]

PRECAST FLARED END SECTION

A

B

C

2'-0" WEIR

D

16" (MIN)

12" (MIN)

6" MIN 3/4" - 1 1/2" CRUSHED STONE

18" RIP RAP STONE
MASS HIGHWAY SPEC. M2.02.3

STONE @ 2:1 SLOPE ALONG
EDGE OF SWALE

SECTION B-B

A

CEL BARS

STONE TO EXTEND TO
TOP OF PIPE

2'-0" WEIR

2:1 SLOPE

2:1 SLOPE

A

6'-0"

3

EL=VARIES

*SEE ELEVATION TABLE

3

1

3 : 1 MAX

NOTES:
FILL DIKES SHALL BE A COMBINATION OF COMPACTED
GRAVEL, SAND AND SILT TO INSURE WATER TIGHTNESS
AND STABILITY. (ASTM D2487 TYPE GM OR GC)

LOAM AND SEED
SLOPES

REMOVE UNSUITABLE MATERIAL
AND FILL WITH SAND-BONE GRAVEL

BERM DETAIL

MANHOLE FRAME & COVER
LEARNER LX 110 A WITH THE
WORD "DRAIN" EMBOSSED ON THE
COVER OR APPROVED EQUAL
FRAME TO BE SET IN FULL
BED OF MORTAR.

BRICK LEVELING COURSE
AS REQUIRED FOR GRADE
ADJUSTMENTS (2 MIN.-5 MAX.)
(CONCRETE BRICK SHALL
NOT BE USED)

MIN. 0.12 SQ. IN. STEEL PER
VERTICAL FOOT PLACED
ACCORDING TO AASHTO
DESIGNATION M19.9 SPECS

1-#3 BAR AROUND OPENINGS
FOR PIPES 18" DIAMETER
AND OVER 1" COVER

PIPE OPENINGS TO BE
PRECAST IN RISER SECTIONS

FLOOR OF STRUCTURE TO
BE HEADERS LAD FLAT

BRICK CHIPS AND MORTAR OR
CLASS "A" CEMENT CONCRETE

INVERTED ARCH WITH BRICKS
LAD ON EDGE OR CLASS "A"
CEMENT CONCRETE

BRICK CHIPS AND MORTAR OR
CLASS "A" CEMENT CONCRETE

BRICK CHIPS AND MORTAR OR
CLASS "A" CEMENT CONCRETE

5" MIN.

24" ± 1"

8" MIN

12"

48" ± 1" DIAMETER

2" CLEAR

30" MAX.
DIAMETER
RCP

CEMENT MORTAR

26" DIAMETER
COVER

POLYPROPYLENE
MANHOLE STEPS

10"-24"
CONICAL
SECTIONS

HEIGHT OF
RISER SECTIONS
VARY FROM 1' TO 4'

VARIES

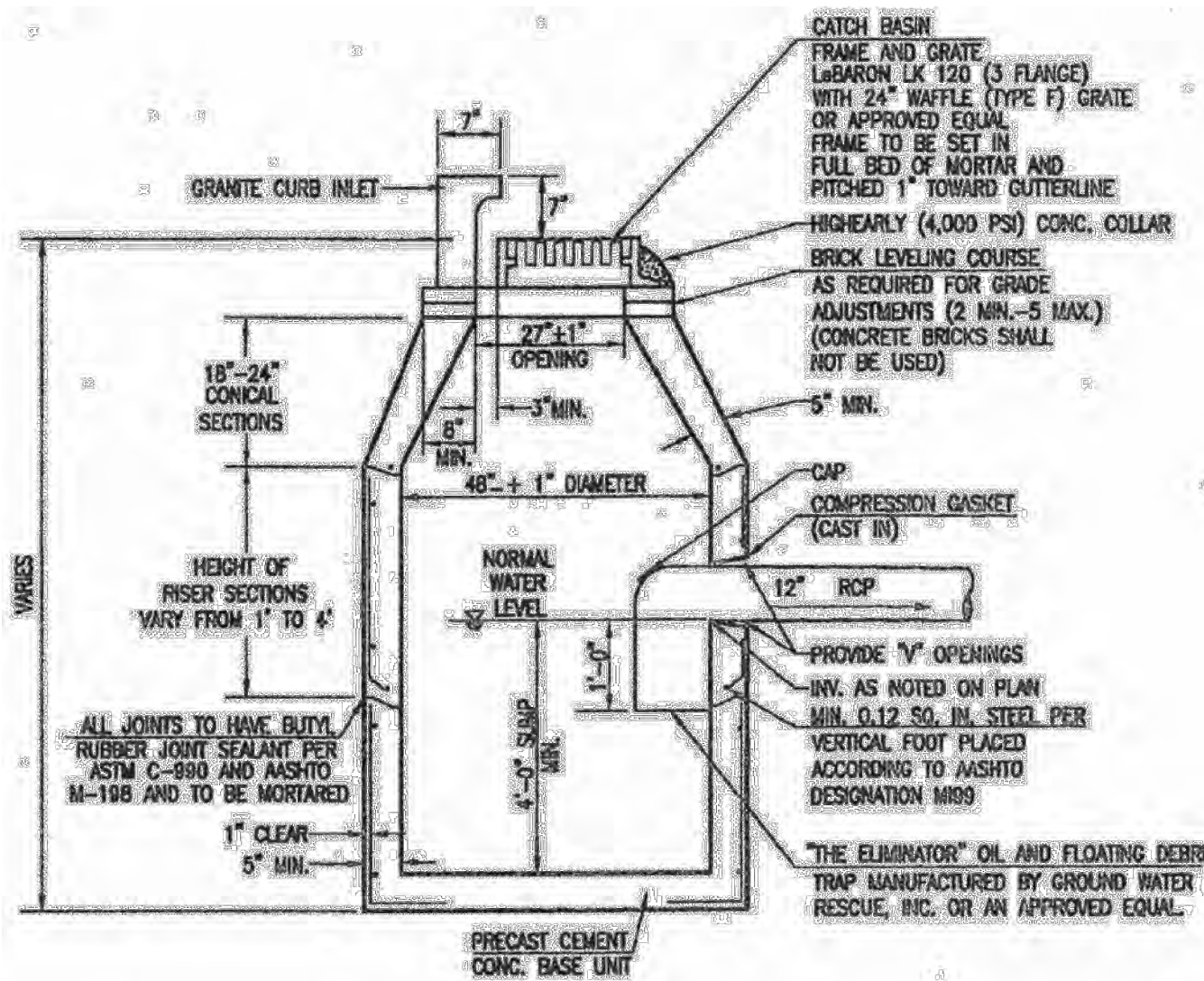
OUTSIDE PIPE
DA AND 2"

REINFORCED
CONCRETE
PIPE

PROVIDE 1" OPENINGS
COMPRESSION GASKET (CAST IN)

ALL JOINTS TO HAVE BUTYL
RUBBER JOINT SEALANT PER
ASTM C-990 AND AASHTO
M-198 AND TO BE MORTARED

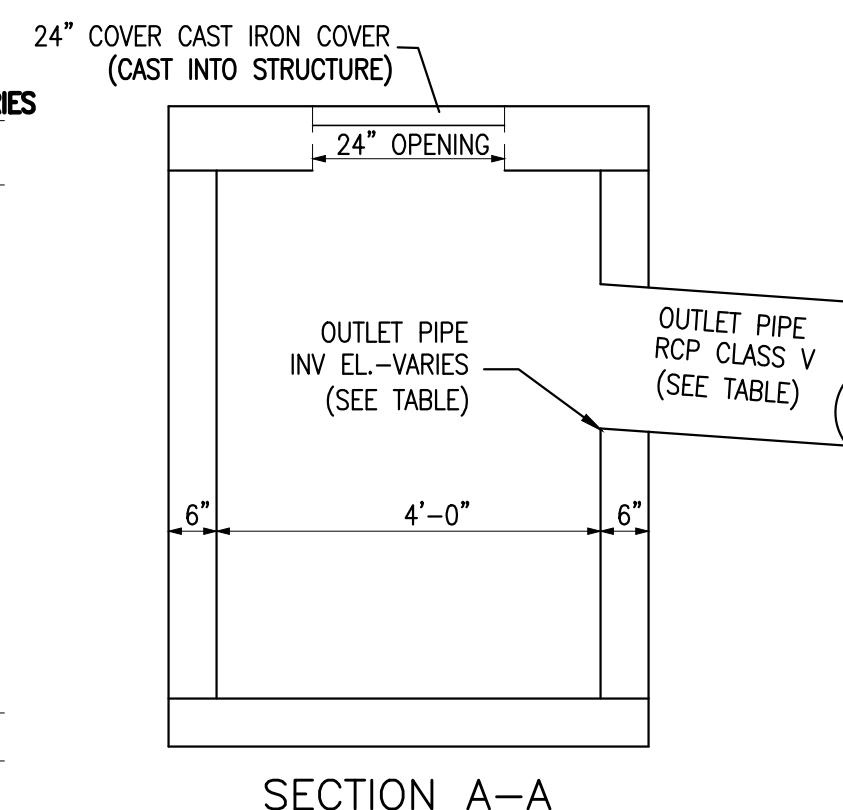
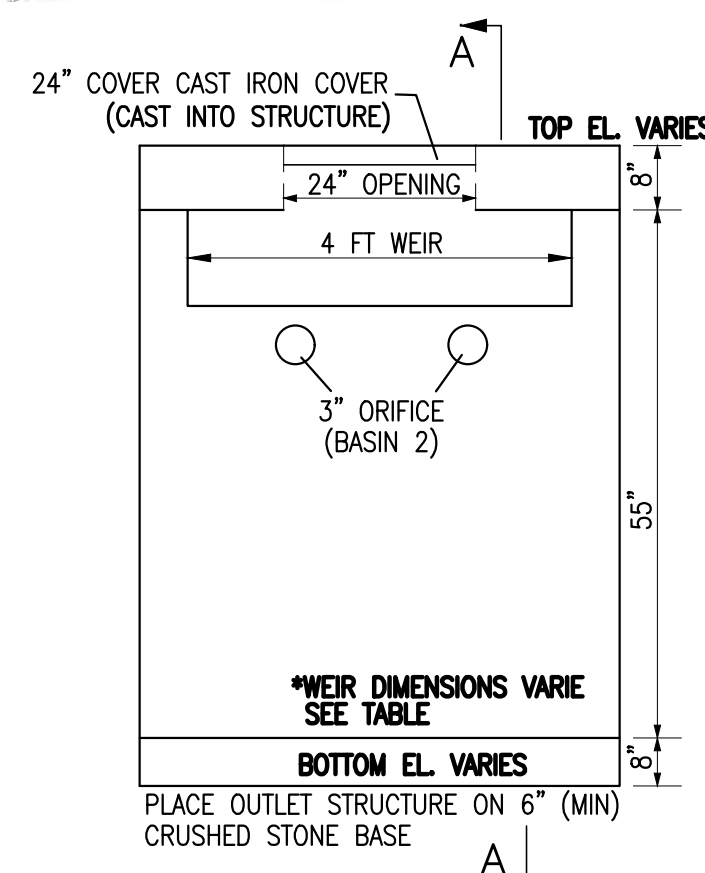
PRECAST CONCRETE MANHOLE
(NOT TO SCALE)



24"Ø CAST IRON COVER
(CAST INTO STRUCTURE)

6" 4'-0" 6" 4'-0" 6"

PLAN VIEW



OVERFLOW OUTLET CONTROL STRUCTURE
(NOT TO SCALE)

[illegible]

DETAIL — STORMCEPTOR

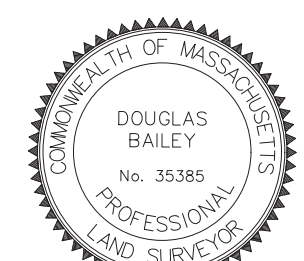
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PREPARED FOR:
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70 OLD CART PATH LANE
PEMBROKE, MA 02359

JANUARY 7, 2020
SCALE: AS SHOWN
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Douglas Bailey 5/19/20
DOUGLAS BAILEY P.L.S. #35385 DATE

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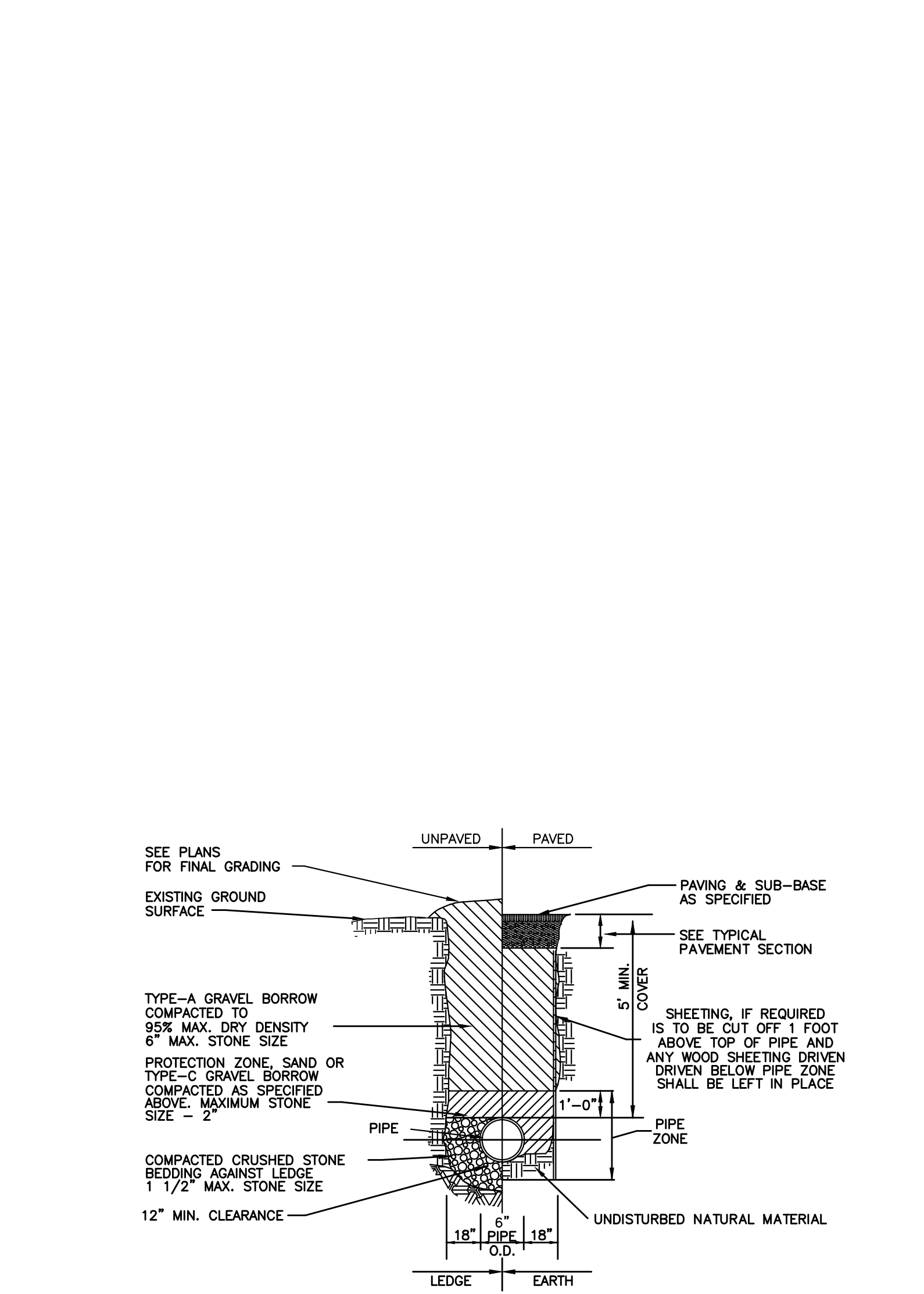
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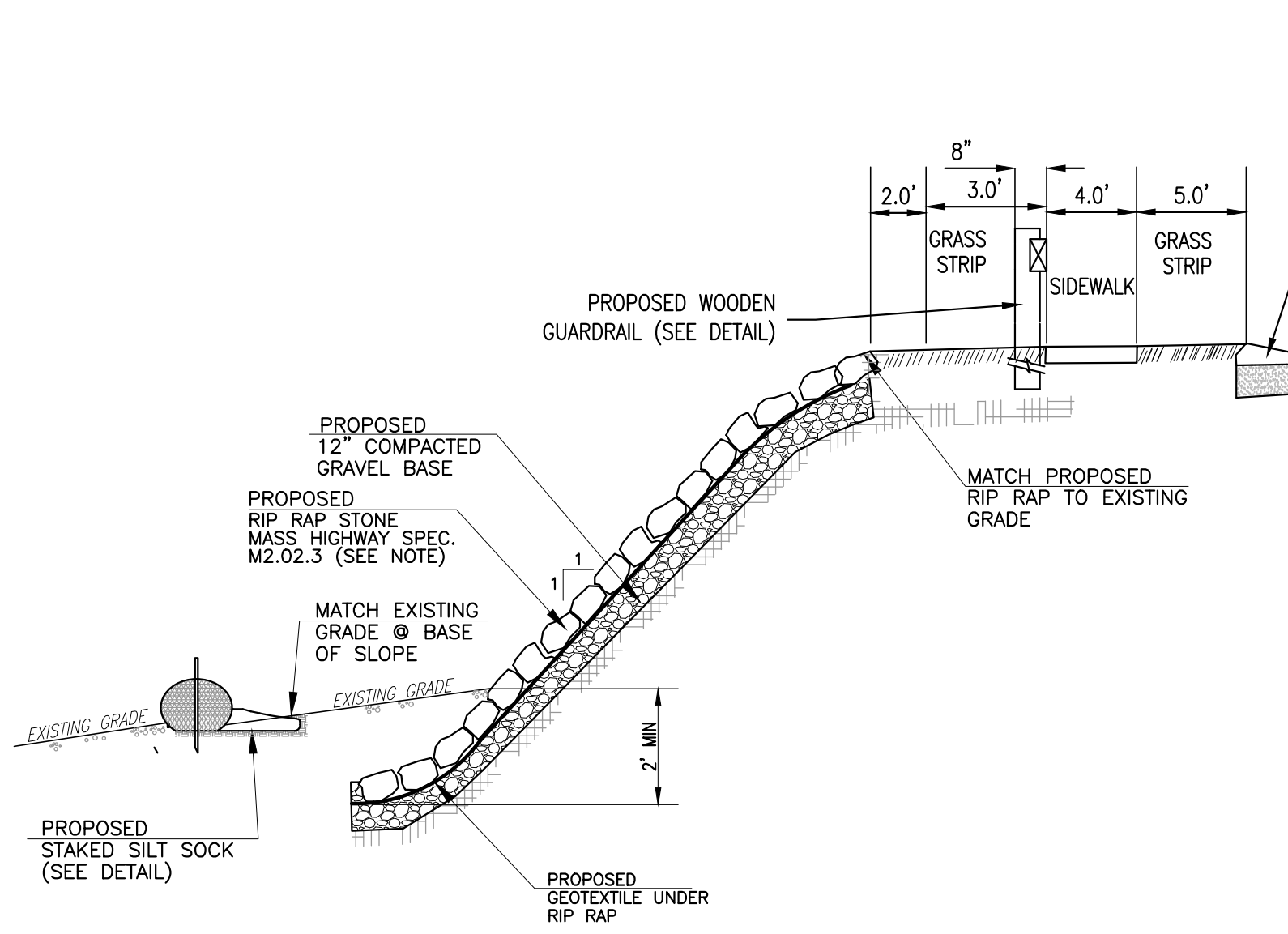
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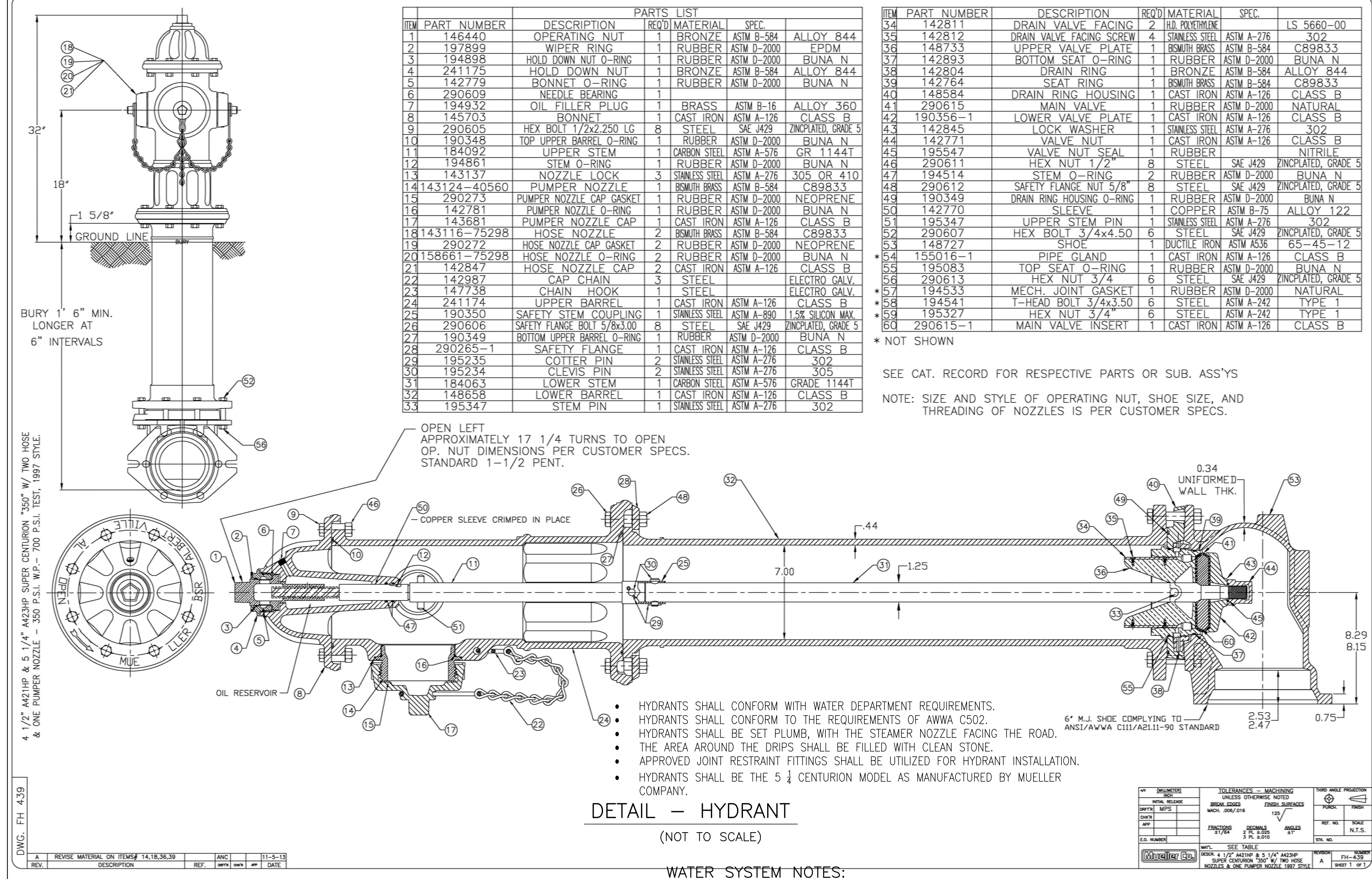
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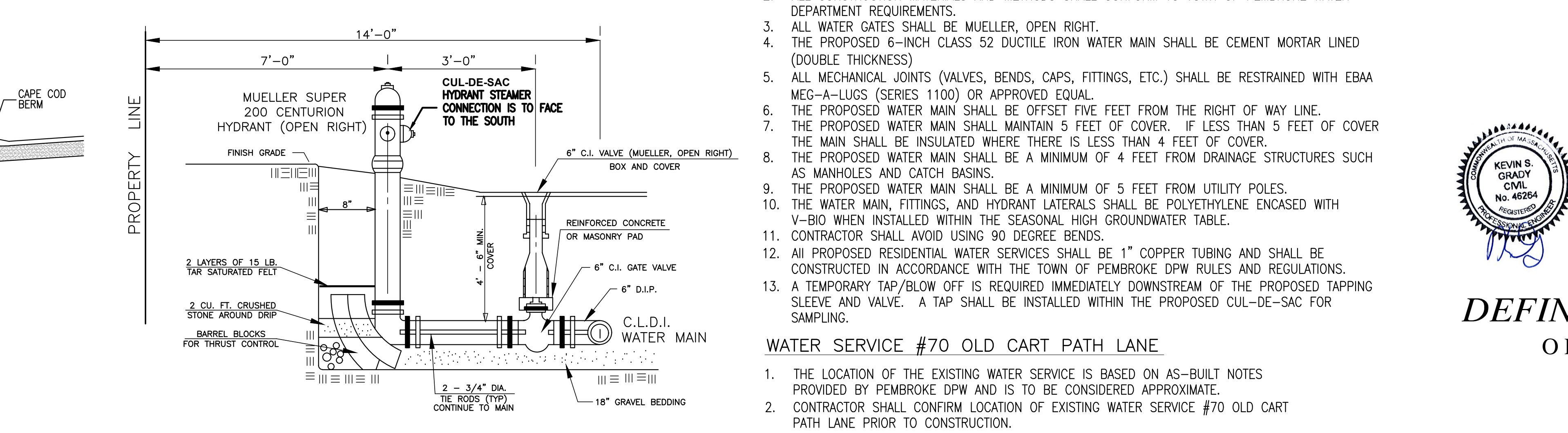
TYPICAL WATER TRENCH DETAIL
NOT TO SCALE



RIP RAP SLOPE
NOT TO SCALE



DETAIL - HYDRANT
(NOT TO SCALE)



HYDRANT DETAIL
(NOT TO SCALE)

- HYDRANTS SHALL CONFORM WITH WATER DEPARTMENT REQUIREMENTS.
- HYDRANTS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C502.
- HYDRANTS SHALL BE SET PLUMB, WITH THE STEAMER NOZZLE FACING THE ROAD.
- THE AREA AROUND THE DRIPS SHALL BE FILLED WITH CLEAN STONE.
- APPROVED JOINT RESTRAINT FITTINGS SHALL BE UTILIZED FOR HYDRANT INSTALLATION.
- HYDRANTS SHALL BE THE 5 1/4 CENTURION MODEL AS MANUFACTURED BY MUELLER COMPANY.

ITEM	PART NUMBER	DESCRIPTION	REQD	MATERIAL	SPEC	ALLOY
1	146440	OPERATING NUT	1	BRONZE	ASTM B-584	ALLOY 844
2	197899	WIPER RING	1	RUBBER	ASTM D-2000	EPDM
3	194898	HOLD DOWN NUT O-RING	1	RUBBER	ASTM D-2000	BUNA N
4	241175	HOLD DOWN NUT	1	BRONZE	ASTM B-584	ALLOY 844
5	142779	BONNET O-RING	1	RUBBER	ASTM D-2000	BUNA N
6	290609	NEEDLE BEARING	1			
7	194932	OIL FILLER PLUG	1	BRASS	ASTM B-16	ALLOY 360
8	145703	BONNET	1	CAST IRON	ASTM A-126	CLASS B
9	290605	HEX BOLT 1/2x2.250 LG.	8	STEEL	SAE J429	ZINCPLATED, GRADE 5
10	190348	TOP UPPER BARREL O-RING	1	RUBBER	ASTM D-2000	BUNA N
11	184092	UPPER STEM	1	CARBON STEEL	ASTM A-576	GR 1144T
12	194861	STEM O-RING	1	RUBBER	ASTM D-2000	BUNA N
13	143137	NOZZLE LOCK	3	STAINLESS STEEL	ASTM A-276	305 OR 410
14	143124-40560	PUMPER NOZZLE	1	BRASS	ASTM B-584	C89833
15	290273	PUMPER NOZZLE CAP GASKET	1	RUBBER	ASTM D-2000	NEOPRENE
16	142781	PUMPER NOZZLE O-RING	1	RUBBER	ASTM D-2000	BUNA N
17	143681	PUMPER NOZZLE CAP	1	CAST IRON	ASTM A-126	CLASS B
18	143116-75298	HOSE NOZZLE	2	BRASS	ASTM B-584	C89833
19	290272	HOSE NOZZLE CAP GASKET	2	RUBBER	ASTM D-2000	NEOPRENE
20	158661-75298	HOSE NOZZLE O-RING	2	RUBBER	ASTM D-2000	BUNA N
21	142847	HOSE NOZZLE CAP	2	CAST IRON	ASTM A-126	CLASS B
22	142987	CAP CHAIN	3	STEEL		ELECTRO GALV.
23	147738	CHAIN HOOK	1	STEEL		ELECTRO GALV.
24	241174	UPPER BARREL	1	CAST IRON	ASTM A-126	CLASS B
25	190350	SAFETY STEM COUPLING	1	STAINLESS STEEL	ASTM A-890	1.5% SILICON MAX.
26	290606	SAFETY FLANGE BOLT 5/8x3.00	8	STEEL	SAE J429	ZINCPLATED, GRADE 5
27	190349	BOTTOM UPPER BARREL O-RING	1	RUBBER	ASTM D-2000	BUNA N
28	290265-1	SAFETY FLANGE	1	CAST IRON	ASTM A-126	CLASS B
29	195235	COTTER PIN	2	STAINLESS STEEL	ASTM A-276	302
30	195234	CLEVIS PIN	2	STAINLESS STEEL	ASTM A-276	305
31	184063	LOWER STEM	1	CARBON STEEL	ASTM A-576	GRADE 1144T
32	148658	LOWER BARREL	1	CAST IRON	ASTM A-126	CLASS B
33	195347	STEM PIN	1	STAINLESS STEEL	ASTM A-276	302

ITEM	PART NUMBER	DESCRIPTION	REQD	MATERIAL	SPEC.	ALLOY
34	142811	DRAIN VALVE FACING	2	HD POLYETHYLENE		LS 5660-00
35	142812	DRAIN VALVE FACING SCREW	4	STAINLESS STEEL	ASTM A-276	302
36	148733	UPPER VALVE PLATE	1	BRASS	ASTM B-584	C89833
37	142893	BOTTOM SEAT O-RING	1	RUBBER	ASTM D-2000	BUNA N
38	142804	DRAIN RING	1	BRONZE	ASTM B-584	ALLOY 844
39	142764	SEAT RING	1	BRASS	ASTM B-584	C89833
40	148584	DRAIN RING HOUSING	1	CAST IRON	ASTM A-126	CLASS B
41	290615	MAIN VALVE	1	RUBBER	ASTM D-2000	NATURAL
42	190356-1	LOWER VALVE PLATE	1	CAST IRON	ASTM A-126	CLASS B
43	142845	LOCK WASHER	1	STAINLESS STEEL	ASTM A-276	302
44	142771	VALVE NUT	1	CAST IRON	ASTM A-126	CLASS B
45	195547	VALVE NUT SEAL	1	RUBBER		NITRILE
46	290611	HEX NUT 1/2"	8	STEEL	SAE J429	ZINCPLATED, GRADE 5
47	194514	STEM O-RING	2	RUBBER	ASTM D-2000	BUNA N
48	290612	SAFETY FLANGE NUT 5/8"	8	STEEL	SAE J429	ZINCPLATED, GRADE 5
49	190349	DRAIN RING HOUSING O-RING	1	RUBBER	ASTM D-2000	BUNA N
50	142770	SLEEVE	1	COPPER	ASTM B-75	ALLOY 122
51	195347	UPPER STEM PIN	1	STAINLESS STEEL	ASTM A-276	302
52	290607	HEX BOLT 3/4x4.50	6	STEEL	SAE J429	ZINCPLATED, GRADE 5
53	148727	SHOE	1	DUCTILE IRON	ASTM A536	65-45-12
54	155016-1	PIPE GLAND	1	CAST IRON	ASTM A-126	CLASS B
55	195083	TOP SEAT O-RING	1	RUBBER	ASTM D-2000	BUNA N
56	290613	HEX NUT 3/4"	6	STEEL	SAE J429	ZINCPLATED, GRADE 5
57	194533	MECH. JOINT GASKET	1	RUBBER	ASTM D-2000	NATURAL
58	194541	T-HEAD BOLT 3/4x3.50	6	STEEL	ASTM A-242	TYPE 1
59	195327	HEX NUT 3/4"	6	STEEL	ASTM A-242	TYPE 1
60	290615-1	MAIN VALVE INSERT	1	CAST IRON	ASTM A-126	CLASS B

SEE CAT. RECORD FOR RESPECTIVE PARTS OR SUB. ASS'YS

NOTE: SIZE AND STYLE OF OPERATING NUT, SHOE SIZE, AND THREADING OF NOZZLES IS PER CUSTOMER SPECS.

PEMBROKE PLANNING BOARD

APPROVED CONDITIONALLY SUBJECT TO THE COMPLETION OF ALL REQUIRED GROUNDWORK AS SHOWN ON THESE PLANS AND AS SET FORTH IN THE COVENANT.

DATE APPROVED: _____

DATE SIGNED: _____

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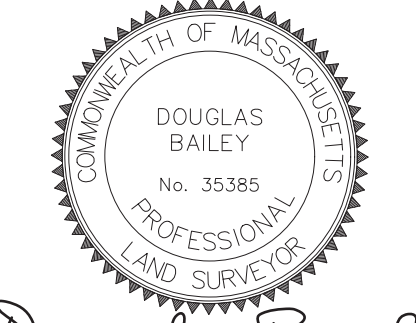
PEMBROKE TOWN CLERK

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DATE: _____

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Douglas Bailey 5/19/20
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