



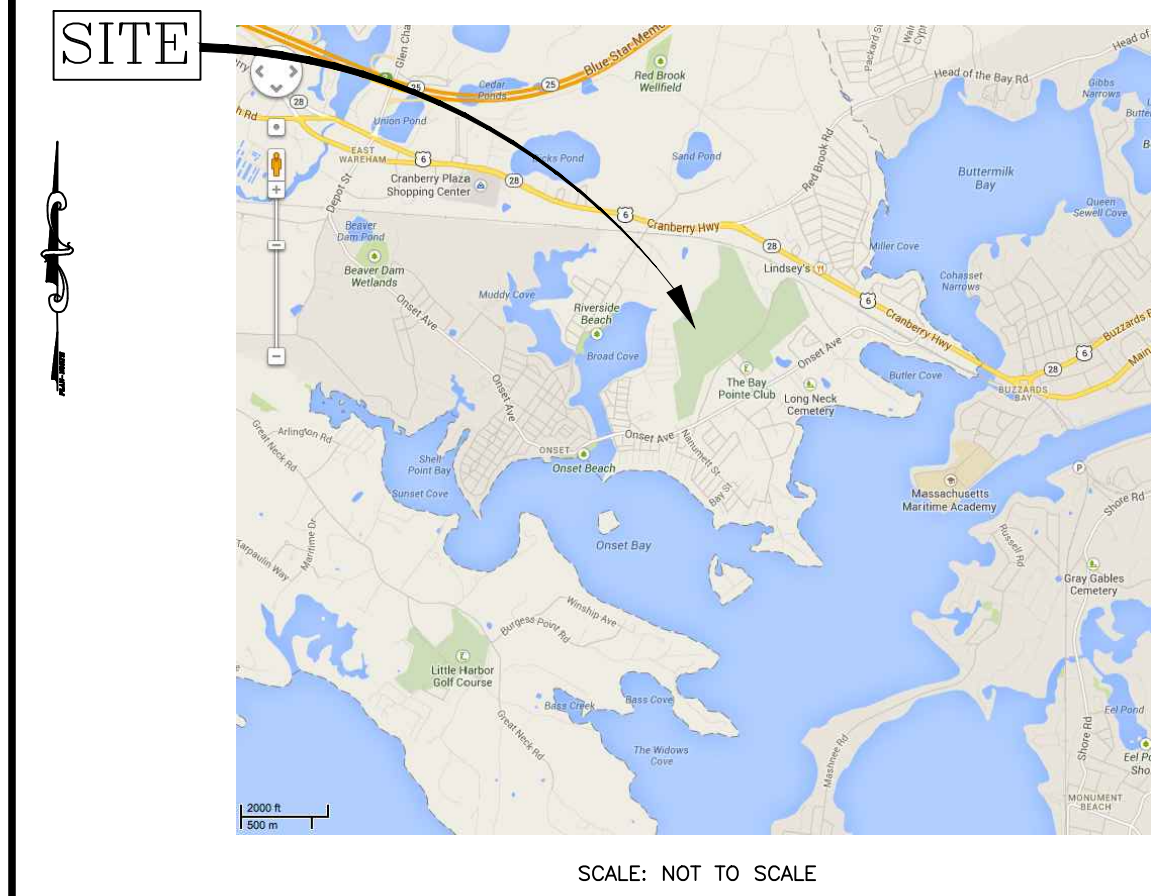
MODIFICATION TO SPECIAL USE PERMIT &  
 SITE PLAN APPROVAL  
 BAY POINTE CLUB MIXED USE  
 DEVELOPMENT PHASE IV  
 in  
 WAREHAM, MASSACHUSETTS

OWNER / APPLICANT:  
 BAY POINTE CLUB, LLC  
 C/O STONESTREET, CORP.  
 501 WAMPANOAG TRAIL, SUITE 400  
 EAST PROVIDENCE, RHODE ISLAND 02915  
 401.433.6900

LIST OF DRAWINGS

- 1) TITLE SHEET
- 2) EXISTING CONDITIONS PLAN
- 3) SITE LAYOUT PLAN
- 4) GRADING & DRAINAGE PLAN
- 5) UTILITY PLAN
- 6-10) LANDSCAPE PLANS
- 11-17) CONSTRUCTION DETAIL SHEETS

Waiver Request from Section 933.1:  
 Parking spaces to be 9' wide x 18' long

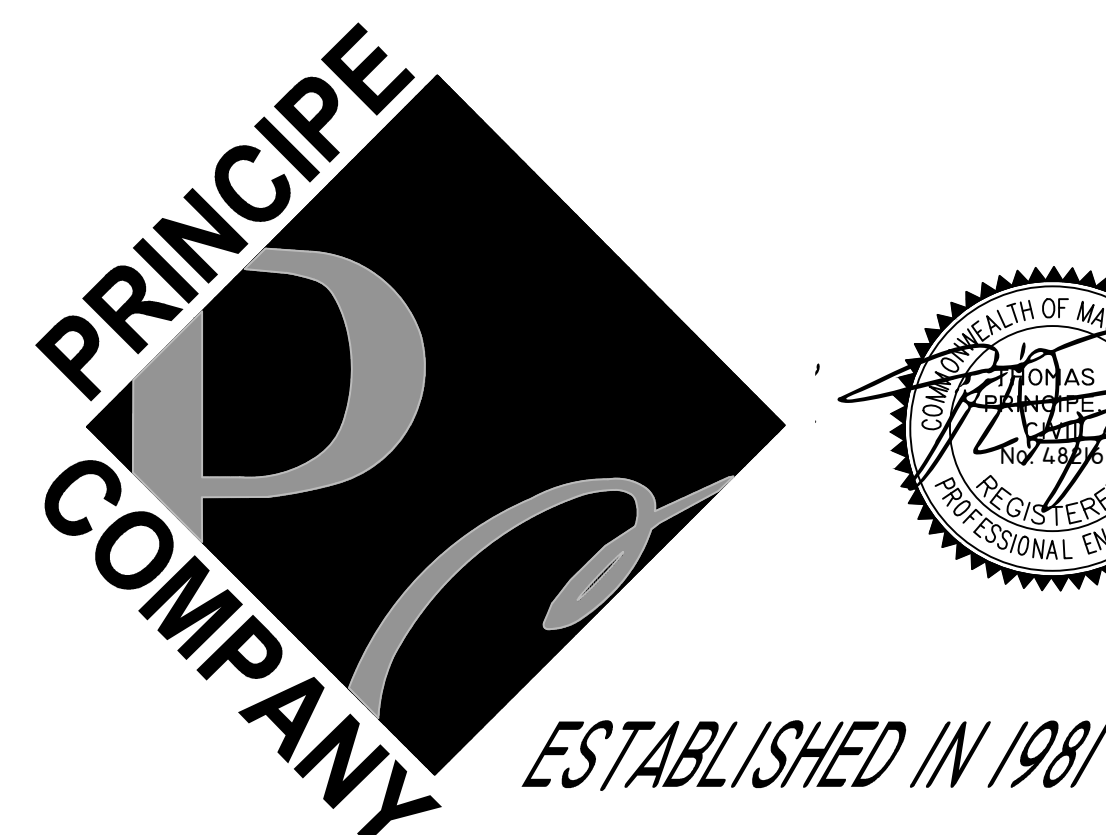


PROJECT DATA:

PLAT: 9                      LOT: 1004.B  
 NUMBER OF CONDO BUILDINGS: 7  
 BUILDING A: 8 UNITS  
 BUILDING B: 6 UNITS  
 BUILDING C: 9 UNITS  
 BUILDING D: 7 UNITS  
 BUILDING E: 8 UNITS  
 BUILDING F: 8 UNITS  
 BUILDING G: 6 UNITS  
 NUMBER OF TOTAL DWELLING UNITS: 52

ZONING CLASSIFICATION:

"CR" CONFERENCE RECREATIONAL DISTRICT



PREPARED BY:  
**PRINCIPE COMPANY, INC.**  
 ENGINEERING DIVISION  
 PO BOX 298  
 TIVERTON, RHODE ISLAND 02878  
 401.816.5385  
 PRINCIPEENGINEERING@GMAIL.COM

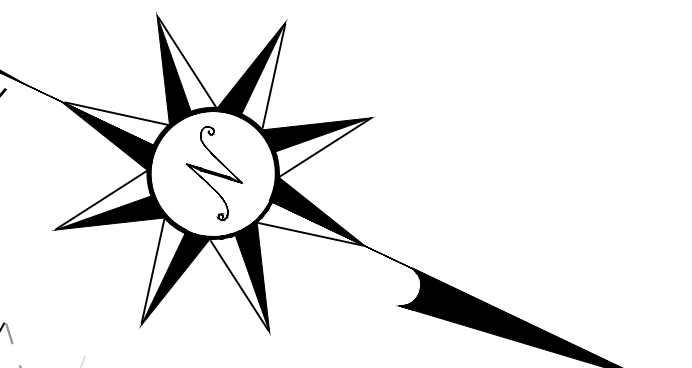
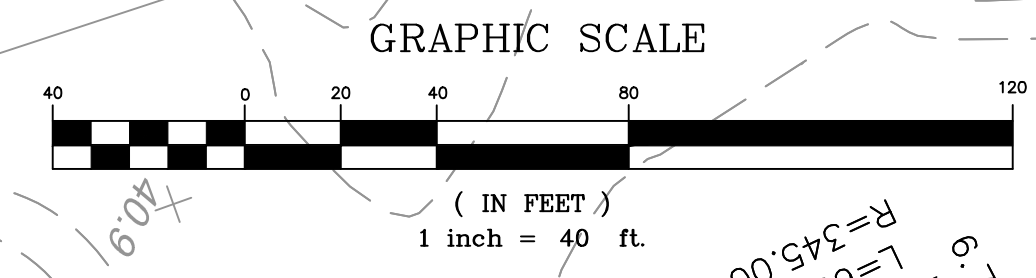
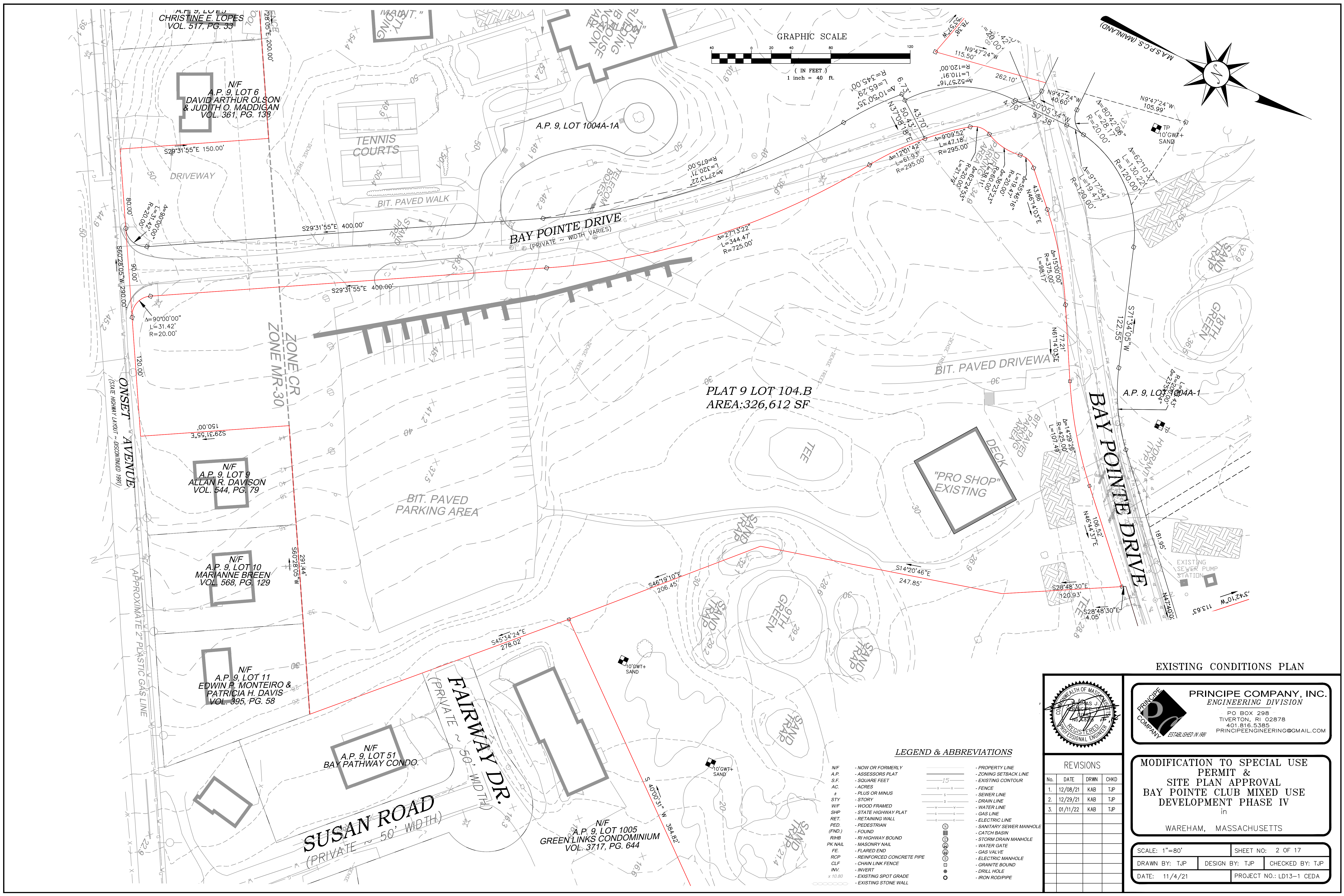
DATE: NOVEMBER 4, 2021  
 REVISED: DECEMBER 8, 2021  
 REVISED: DECEMBER 29, 2021  
 REVISED: JANUARY 11, 2022

EXISTING CONDITIONS AND PROPERTY LINE SURVEY BY:  
 RICHARD LIPSITZ, PLS  
 WARTERMAN ENGINEERING COMPANY  
 46 SUTTON AVENUE  
 EAST PROVIDENCE, RHODE ISLAND 02914  
 PHONE: 401.438.5775  
 FAX: 401.438.5773

DEFINITIVE PLAN APPROVAL GRANTED  
 BY: WAREHAM PLANNING BOARD  
 DATE APPROVED: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 DATE SIGNED: \_\_\_\_\_

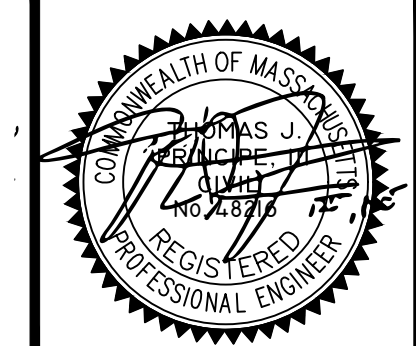
I HEREBY CERTIFY THAT THERE HAS BEEN NO APPEAL TAKEN TO  
 THIS PLANNING BOARD ACTION DURING THE 20-DAY STATUTORY  
 APPEAL PERIOD

TOWN CLERK - WAREHAM MASSACHUSETTS



PLAT 9 LOT 104.B  
 AREA: 326,612 SF

EXISTING CONDITIONS PLAN



**PRINCIPE COMPANY, INC.**  
 ENGINEERING DIVISION  
 PO BOX 298  
 TIVERTON, RI 02878  
 401.816.5385  
 PRINCIPEENGINEERING@GMAIL.COM  
 ESTABLISHED IN 1981

LEGEND & ABBREVIATIONS

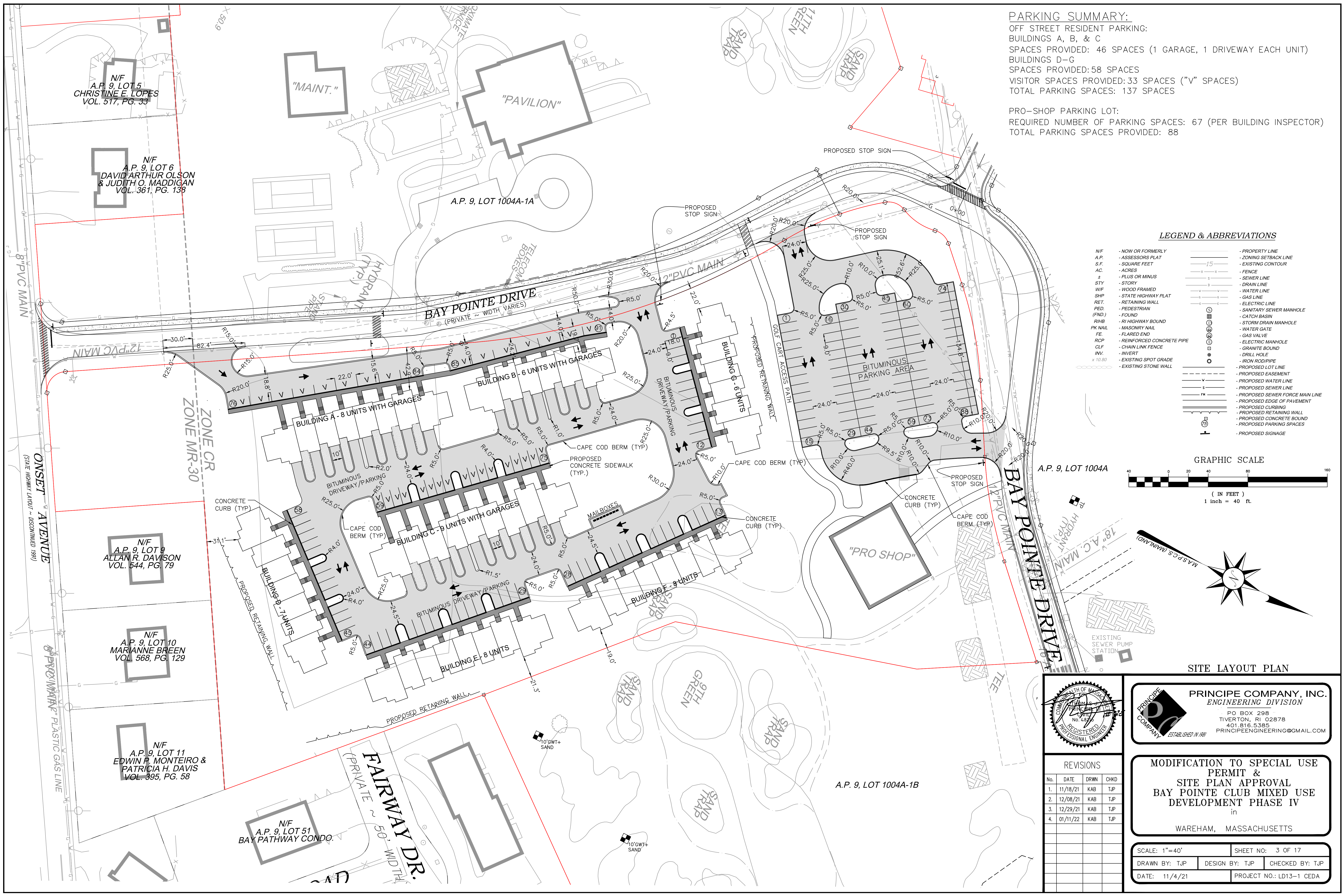
- |         |                            |     |                          |
|---------|----------------------------|-----|--------------------------|
| N/F     | - NOW OR FORMERLY          | --- | - PROPERTY LINE          |
| A.P.    | - ASSESSORS PLAT           | --- | - ZONING SETBACK LINE    |
| S.F.    | - SQUARE FEET              | --- | - EXISTING CONTOUR       |
| AC.     | - ACRES                    | --- | - FENCE                  |
| ±       | - PLUS OR MINUS            | --- | - SEWER LINE             |
| STY     | - STORY                    | --- | - DRAIN LINE             |
| W/F     | - WOOD FRAMED              | --- | - WATER LINE             |
| SH/PL   | - STATE HIGHWAY PLAT       | --- | - GAS LINE               |
| RET.    | - RETAINING WALL           | --- | - ELECTRIC LINE          |
| PED.    | - PEDESTRIAN               | --- | - SANITARY SEWER MANHOLE |
| (FND.)  | - FOUND                    | --- | - CATCH BASIN            |
| R/HB    | - RI HIGHWAY BOUND         | --- | - STORM DRAIN MANHOLE    |
| PK NAIL | - MASONRY NAIL             | --- | - WATER GATE             |
| FE      | - FLARED END               | --- | - GAS VALVE              |
| RCP     | - REINFORCED CONCRETE PIPE | --- | - ELECTRIC MANHOLE       |
| CLF     | - CHAIN LINK FENCE         | --- | - GRANITE BOUND          |
| INV.    | - INVERT                   | --- | - DRILL HOLE             |
| x 10.80 | - EXISTING SPOT GRADE      | --- | - IRON ROD/PIPE          |
| ---     | - EXISTING STONE WALL      | --- |                          |

REVISIONS

No.	DATE	DRWN	CHKD
1.	12/08/21	KAB	TJP
2.	12/29/21	KAB	TJP
3.	01/11/22	KAB	TJP

**MODIFICATION TO SPECIAL USE PERMIT & SITE PLAN APPROVAL BAY POINTE CLUB MIXED USE DEVELOPMENT PHASE IV**  
 in  
 WAREHAM, MASSACHUSETTS

SCALE: 1"=80'  
 SHEET NO: 2 OF 17  
 DRAWN BY: TJP    DESIGN BY: TJP    CHECKED BY: TJP  
 DATE: 11/4/21    PROJECT NO.: LD13-1 CEDA



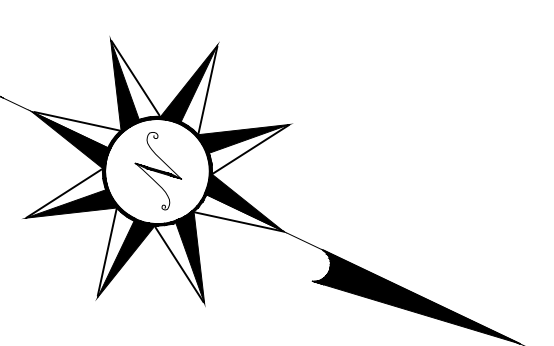
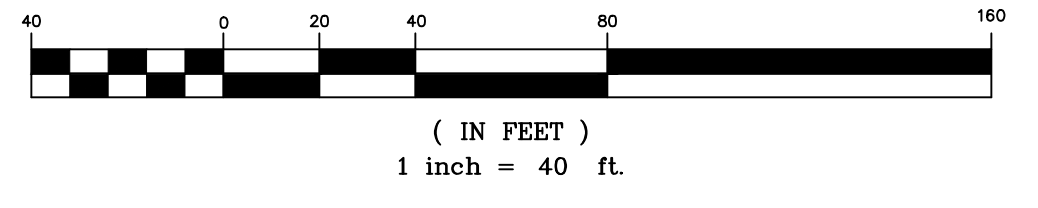
**PARKING SUMMARY:**  
 OFF STREET RESIDENT PARKING:  
 BUILDINGS A, B, & C  
 SPACES PROVIDED: 46 SPACES (1 GARAGE, 1 DRIVEWAY EACH UNIT)  
 BUILDINGS D-G  
 SPACES PROVIDED: 58 SPACES  
 VISITOR SPACES PROVIDED: 33 SPACES ("V" SPACES)  
 TOTAL PARKING SPACES: 137 SPACES

PRO-SHOP PARKING LOT:  
 REQUIRED NUMBER OF PARKING SPACES: 67 (PER BUILDING INSPECTOR)  
 TOTAL PARKING SPACES PROVIDED: 88

**LEGEND & ABBREVIATIONS**

- |         |                            |       |                                  |
|---------|----------------------------|-------|----------------------------------|
| N/F     | - NOW OR FORMERLY          | ---   | - PROPERTY LINE                  |
| A.P.    | - ASSESSORS PLAT           | - - - | - ZONING SETBACK LINE            |
| S.F.    | - SQUARE FEET              | ---   | - EXISTING CONTOUR               |
| AC.     | - ACRES                    | - - - | - FENCE                          |
| ±       | - PLUS OR MINUS            | ---   | - DRAIN LINE                     |
| STY     | - STORY                    | ---   | - SEWER LINE                     |
| W/F     | - WOOD FRAMED              | ---   | - WATER LINE                     |
| SHP     | - STATE HIGHWAY PLAT       | ---   | - GAS LINE                       |
| RET.    | - RETAINING WALL           | ---   | - ELECTRIC LINE                  |
| PED.    | - PEDESTRIAN               | ---   | - SANITARY SEWER MANHOLE         |
| (FND.)  | - FOUND                    | ---   | - CATCH BASIN                    |
| R/HB    | - RI HIGHWAY BOUND         | ---   | - STORM DRAIN MANHOLE            |
| M/N     | - MASONRY NAIL             | ---   | - WATER GATE                     |
| FE.     | - FLARED END               | ---   | - GAS VALVE                      |
| RCP     | - REINFORCED CONCRETE PIPE | ---   | - ELECTRIC MANHOLE               |
| CLF     | - CHAIN LINK FENCE         | ---   | - GRANITE BOUND                  |
| INV.    | - INVERT                   | ---   | - DRILL HOLE                     |
| x 10.80 | - EXISTING SPOT GRADE      | ---   | - IRON ROD/PIPE                  |
| ---     | - EXISTING STONE WALL      | ---   | - PROPOSED LOT LINE              |
|         |                            | ---   | - PROPOSED GASEMENT              |
|         |                            | ---   | - PROPOSED WATER LINE            |
|         |                            | ---   | - PROPOSED SEWER LINE            |
|         |                            | ---   | - PROPOSED SEWER FORCE MAIN LINE |
|         |                            | ---   | - PROPOSED EDGE OF PAVEMENT      |
|         |                            | ---   | - PROPOSED CURBING               |
|         |                            | ---   | - PROPOSED RETAINING WALL        |
|         |                            | ---   | - PROPOSED CONCRETE BOUND        |
|         |                            | ---   | - PROPOSED PARKING SPACES        |
|         |                            | ---   | - PROPOSED SIGNAGE               |

**GRAPHIC SCALE**



**SITE LAYOUT PLAN**



**PRINCIPE COMPANY, INC.**  
 ENGINEERING DIVISION  
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 TIVERTON, RI 02878  
 401.816.5385  
 PRINCIPLEENGINEERING@GMAIL.COM

**REVISIONS**

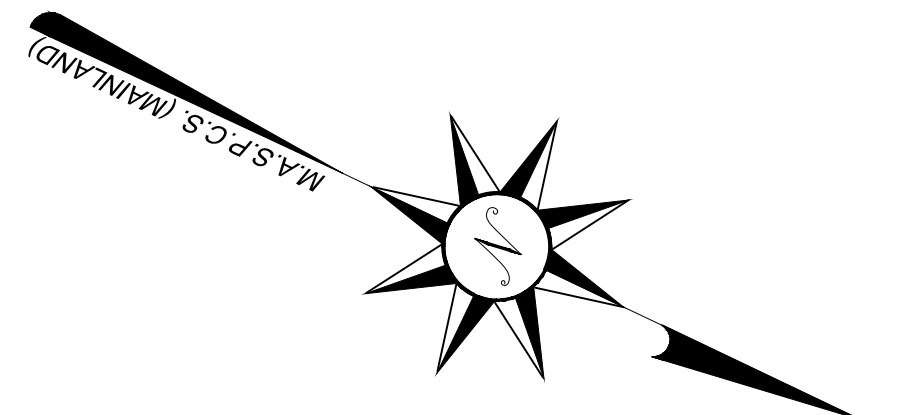
No.	DATE	DRWN	CHKD
1.	11/18/21	KAB	TJP
2.	12/08/21	KAB	TJP
3.	12/29/21	KAB	TJP
4.	01/11/22	KAB	TJP

**MODIFICATION TO SPECIAL USE PERMIT & SITE PLAN APPROVAL BAY POINTE CLUB MIXED USE DEVELOPMENT PHASE IV**  
 in  
 WAREHAM, MASSACHUSETTS

SCALE: 1"=40' SHEET NO: 3 OF 17  
 DRAWN BY: TJP DESIGN BY: TJP CHECKED BY: TJP  
 DATE: 11/4/21 PROJECT NO.: LD13-1 CEDA



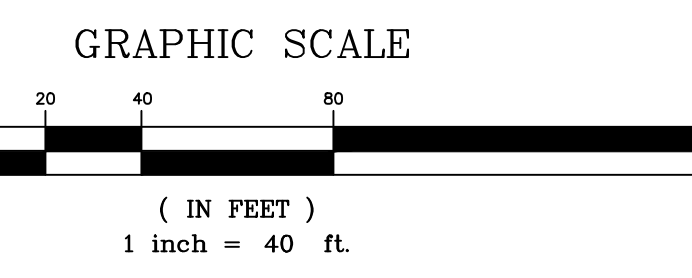
DRAINAGE PIPE SCHEDULE					
FROM/TO STRUCTURE	PIPE DIAMETER/MATERIAL	LENGTH	INV. 'FROM' EL.	INV. 'TO' EL.	SLOPE '1'
CB-A TO SWALE	18" HDPE	100'	38.00'	37.00'	0.01
CB-1 TO CB-2	18" HDPE	53'	27.89'	27.35'	0.01
CB-2 TO CB-3	18" HDPE	31'	27.35'	27.02'	0.01
CB-3 TO CB-4	18" HDPE	39'	27.02'	26.63'	0.01
CB-4 TO FOREBAY	24" HDPE	61'	26.63'	26.03'	0.01
CB-5 TO FOREBAY	24" HDPE	35'	26.75'	26.03'	0.02
CB-6 TO FOREBAY	18" HDPE	86'	31.16'	24.00'	0.08
CB-7 TO MH-1	18" HDPE	59'	30.66'	25.35'	0.09
MH-1 TO MH-2	18" HDPE	38'	25.35'	24.95'	0.01
MH-2 TO MH-3	18" HDPE	72'	24.95'	24.24'	0.01
MH-3 TO FOREBAY	18" HDPE	41'	24.24'	24.00'	0.006



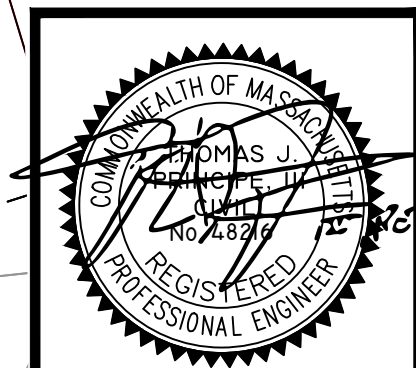
**NOTE:**  
ALL DRAIN LINES TO BE 18" HDPE UNLESS SPECIFIED OTHERWISE.

**LEGEND & ABBREVIATIONS**

- N/F - NOW OR FORMERLY
- A.P. - ASSESSORS PLAT
- S.F. - SQUARE FEET
- AC. - ACRES
- + - PLUS OR MINUS
- STY - STORY
- WF - WOOD FRAMED
- SHP - STATE HIGHWAY PLAT
- RET. - RETAINING WALL
- PED. - PEDESTRIAN
- (FND) - FOUND
- R/HB - RI HIGHWAY BOUND
- M/NAIL - MASONRY NAIL
- FE. - FLARED END
- RCP - REINFORCED CONCRETE PIPE
- CLF - CHAIN LINK FENCE
- INV. - INVERT
- X 10.00 - EXISTING SPOT GRADE
- - - - - EXISTING STONE WALL
- - - - - PROPERTY LINE
- - - - - ZONING SETBACK LINE
- - - - - EXISTING CONTOUR
- - - - - FENCE
- - - - - SEWER LINE
- - - - - DRAIN LINE
- - - - - WATER LINE
- - - - - GAS LINE
- - - - - ELECTRIC LINE
- - - - - SANITARY SEWER MANHOLE
- - - - - CATCH BASIN
- - - - - STORM DRAIN MANHOLE
- - - - - WATER GATE
- - - - - GAS VALVE
- - - - - ELECTRIC MANHOLE
- - - - - GRANITE BOUND
- - - - - DRILL HOLE
- - - - - IRON ROD/PIPE
- - - - - PROPOSED LOT LINE
- - - - - PROPOSED EASEMENT
- - - - - PROPOSED WATER LINE
- - - - - PROPOSED SEWER LINE
- - - - - PROPOSED EDGE OF PAVEMENT
- - - - - PROPOSED CURBING
- - - - - PROPOSED CONCRETE BOUND
- - - - - PROPOSED RETAINING WALL
- - - - - PROPOSED SIGNAGE



**GRADING & DRAINAGE PLAN**



**PRINCIPE COMPANY, INC.**  
ENGINEERING DIVISION  
PO BOX 298  
TIVERTON, RI 02878  
401.816.5385  
PRINCIPEENGINEERING@GMAIL.COM

REVISIONS				
No.	DATE	DRWN	CHKD	
1.	11/18/21	KAB	TJP	
2.	12/08/21	KAB	TJP	
3.	12/29/21	KAB	TJP	
4.	01/11/22	KAB	TJP	

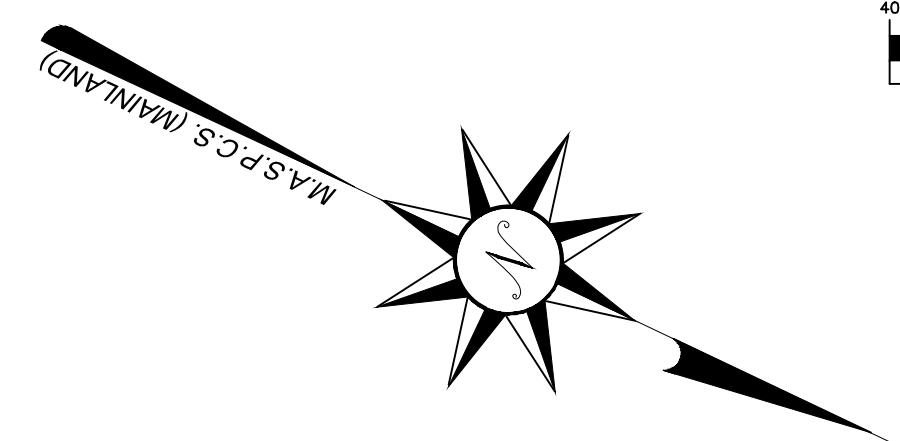
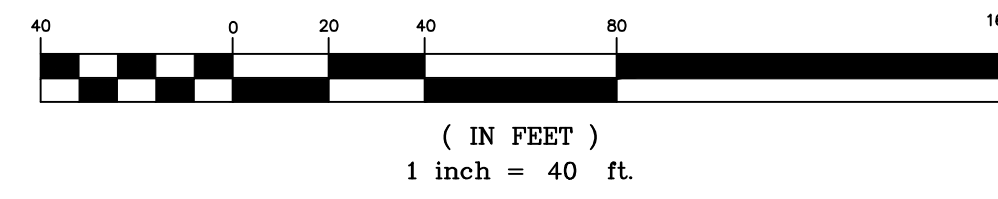
**MODIFICATION TO SPECIAL USE PERMIT & SITE PLAN APPROVAL BAY POINTE CLUB MIXED USE DEVELOPMENT PHASE IV**  
in  
WAREHAM, MASSACHUSETTS

SCALE: 1"=40' SHEET NO: 4 OF 17  
DRAWN BY: TJP DESIGN BY: TJP CHECKED BY: TJP  
DATE: 11/4/21 PROJECT NO.: LD13-1 CEDA

**LEGEND & ABBREVIATIONS**

- N/F - NOW OR FORMERLY
- A.P. - ASSESSORS PLAT
- S.F. - SQUARE FEET
- AC. - ACRES
- ± - PLUS OR MINUS
- STY - STORY
- W/F - WOOD FRAMED
- SWP - STATE HIGHWAY PLAT
- RET. - RETAINING WALL
- PED. - PEDESTRIAN
- (FND.) - FOUND
- RHB - RI HIGHWAY BOUND
- PK NAIL - MASONRY NAIL
- FE. - FLARED END
- ROP - REINFORCED CONCRETE PIPE
- CLF - CHAIN LINK FENCE
- INV. - INVERT
- x 10.80 - EXISTING SPOT GRADE
- - EXISTING STONE WALL
- - PROPERTY LINE
- - ZONING SETBACK LINE
- - EXISTING CONTOUR
- - FENCE
- - SEWER LINE
- - DRAIN LINE
- - WATER LINE
- - GAS LINE
- - ELECTRIC LINE
- - SANITARY SEWER MANHOLE
- - CATCH BASIN
- - STORM DRAIN MANHOLE
- - WATER GATE
- - GAS VALVE
- - ELECTRIC MANHOLE
- - GRANITE BOUND
- - DRILL HOLE
- - IRON ROD PIPE
- - PROPOSED LOT LINE
- - PROPOSED EASEMENT
- - PROPOSED WATER LINE
- - PROPOSED SEWER LINE
- - PROPOSED SEWER FORCE MAIN LINE
- - PROPOSED EDGE OF PAVEMENT
- - PROPOSED CURBING
- - PROPOSED RETAINING WALL
- - PROPOSED CONCRETE BOUND
- - PROPOSED PARKING SPACES
- - PROPOSED SIGNAGE

**GRAPHIC SCALE**

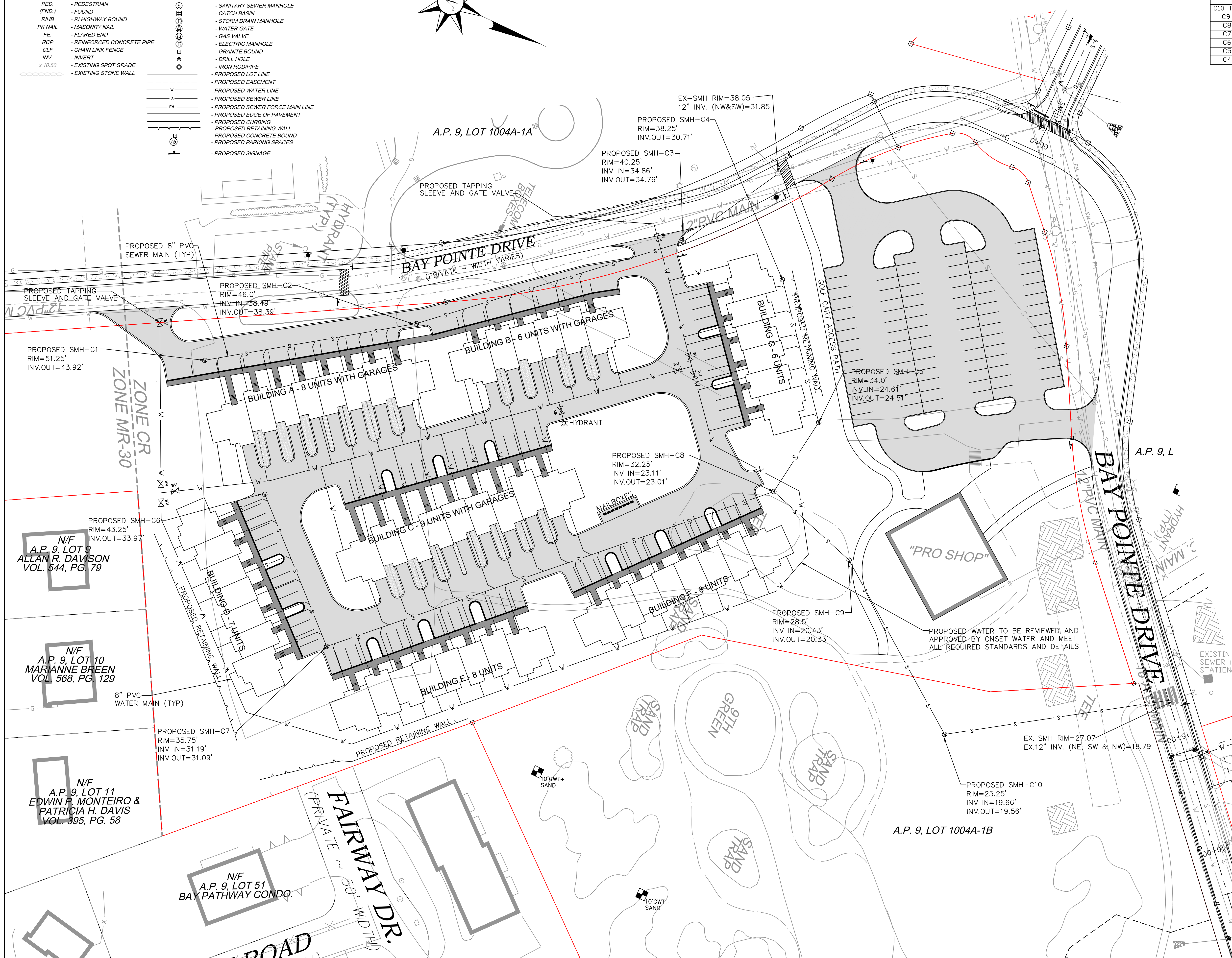


SEWER PIPE SCHEDULE (BUILDINGS A & B)					
FRDM/TO STRUCTURE	PIPE DIAMETER/MATERIAL	LENGTH	INV. OUT	INV. IN	SLOPE ' / '
C3 TO EX SMH	8" PVC	97'	34.76'	31.85'	0.03
C2 TO C3	8" PVC	235'	38.39'	34.86'	0.015
C1 TO C2	8" PVC	181'	43.92'	38.49'	0.03

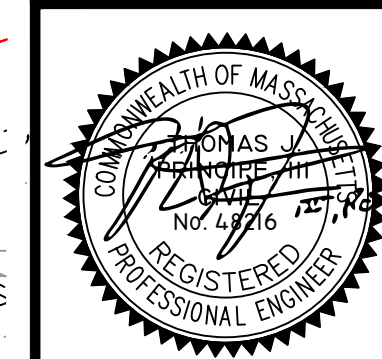
  

SEWER PIPE SCHEDULE (BUILDINGS C-G)					
FRDM/TO STRUCTURE	PIPE DIAMETER/MATERIAL	LENGTH (FT)	INV. OUT (FT)	INV. IN (FT)	SLOPE ' / '
C10 TO EX SMH	8" PVC	193	19.56	18.79	0.004
C9 TO C10	8" PVC	168	20.33	19.66	0.004
C8 TO C9	8" PVC	86	23.01	20.43	0.03
C7 TO C8	8" PVC	399	31.09	23.11	0.02
C6 TO C7	8" PVC	139	33.97	31.19	0.02
C5 TO C6	8" PVC	70	24.51	23.11	0.02
C4 TO C5	8" PVC	122	30.71	24.61	0.05

INVERT TABLE				
BUILDING	LENGTH	BUILDING INV	PIPE INV	PIPE SPECS.
<b>BUILDING A</b>				
1	40.39	46.35	43.53	4" PVC
2	32.68	45.21	42.92	4" PVC
3	34.93	44.77	42.33	4" PVC
4	32.52	43.97	41.70	4" PVC
5	31.09	43.24	41.06	4" PVC
6	30.68	42.58	40.43	4" PVC
7	25.86	41.69	39.88	4" PVC
8	30.66	41.32	39.18	4" PVC
<b>BUILDING B</b>				
1	29.44	45.32	43.26	4" PVC
2	23.93	44.62	42.95	4" PVC
3	28.41	44.62	42.63	4" PVC
4	28.3	44.31	42.34	4" PVC
5	26.52	43.88	42.02	4" PVC
6	33.79	44.07	41.70	4" PVC
<b>BUILDING C</b>				
1	43.34	33.43	29.96	4" PVC
2	50.01	33.53	29.53	4" PVC
3	47.54	32.93	29.13	4" PVC
4	52.68	32.91	28.70	4" PVC
5	53.66	32.37	28.08	4" PVC
6	52.41	31.81	27.62	4" PVC
7	48.15	31.05	27.20	4" PVC
8	51.93	30.92	26.77	4" PVC
9	44.8	29.94	26.36	4" PVC
<b>BUILDING D</b>				
1	45.32	37.44	33.81	4" PVC
2	38.55	36.51	33.42	4" PVC
3	41.46	36.08	32.76	4" PVC
4	40.04	35.55	32.35	4" PVC
5	40.63	35.19	31.94	4" PVC
6	36.9	34.75	31.80	4" PVC
7	42.84	34.82	31.39	4" PVC
<b>BUILDING E</b>				
1	41.92	33.86	30.93	4" PVC
2	35.44	32.97	30.49	4" PVC
3	39.12	32.83	30.09	4" PVC
4	37.94	32.34	29.68	4" PVC
5	37.38	31.65	29.03	4" PVC
6	38.39	31.33	28.64	4" PVC
7	34.69	30.66	28.23	4" PVC
8	40.72	30.72	27.87	4" PVC
<b>BUILDING F</b>				
1	41.09	29.50	26.63	4" PVC
2	32.96	28.53	26.23	4" PVC
3	34.67	28.25	25.83	4" PVC
4	32.19	27.68	25.43	4" PVC
5	29.65	27.04	24.96	4" PVC
6	29.5	26.63	24.57	4" PVC
7	23.81	25.86	24.20	4" PVC
8	28.18	25.74	23.77	4" PVC
<b>BUILDING G</b>				
1	8.13	30.99	30.34	4" PVC
2	14.5	30.40	29.24	4" PVC
3	15.83	29.48	28.21	4" PVC
4	14.62	28.88	27.71	4" PVC
5	13.81	27.89	26.79	4" PVC
6	15.0	25.96	24.76	4" PVC



**UTILITY PLAN**

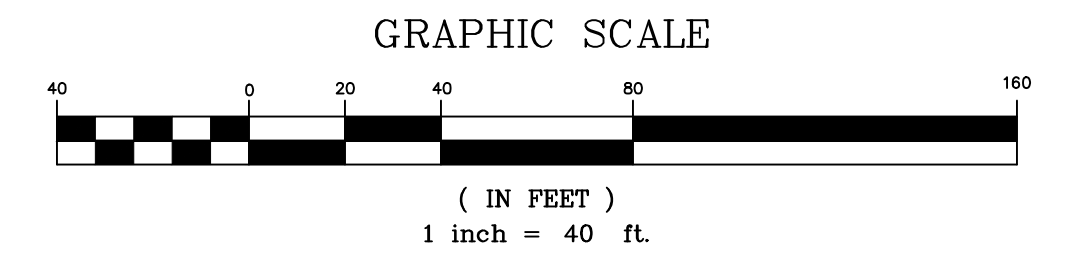
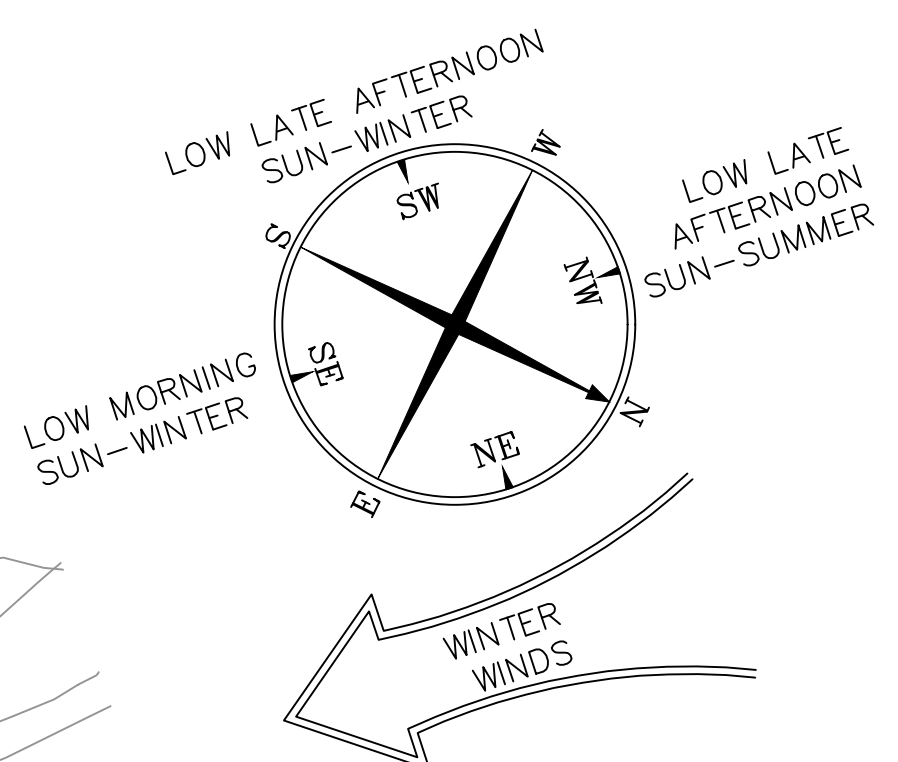
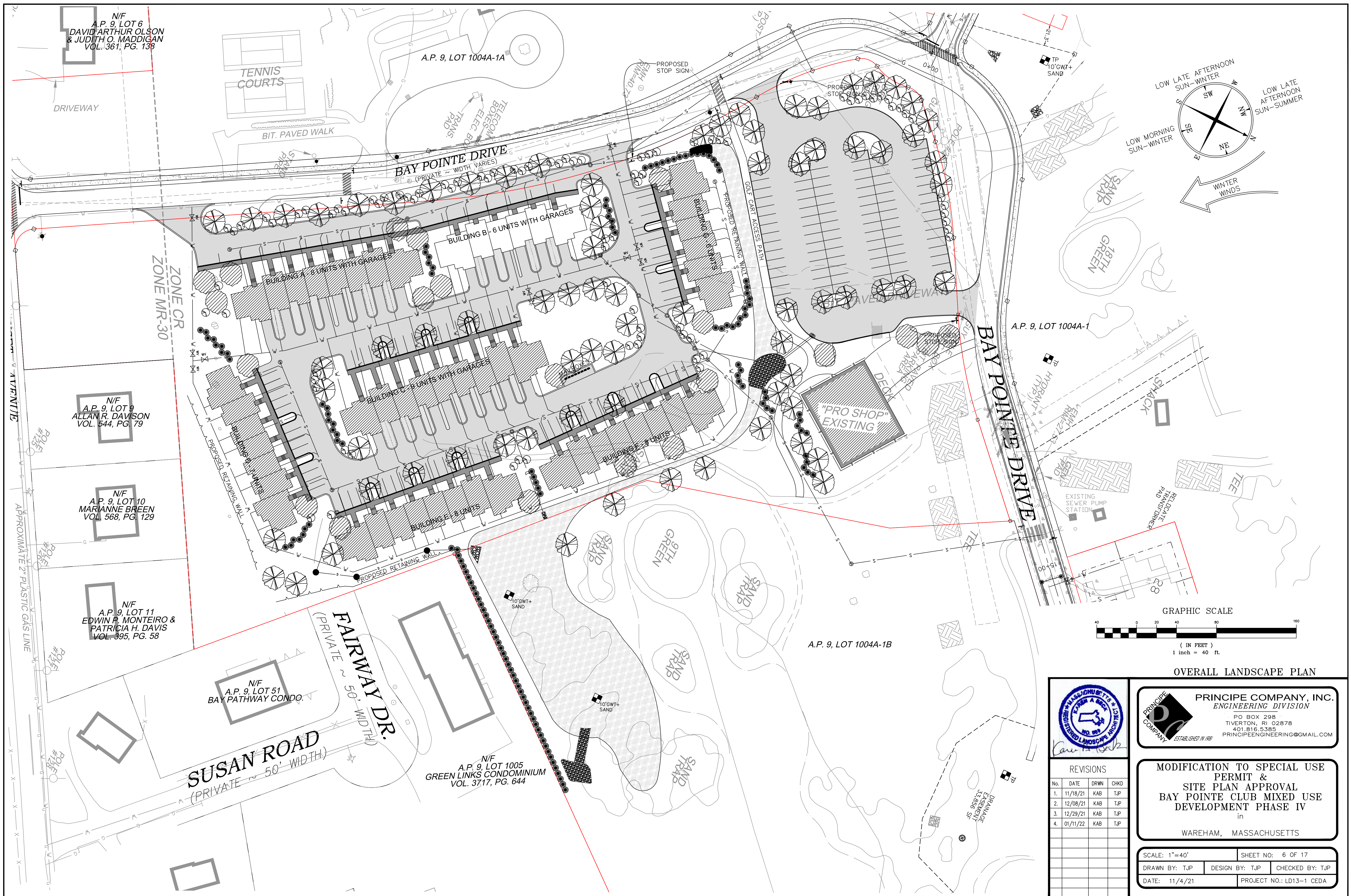


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REVISIONS				
No.	DATE	DRWN	CHKD	
1.	11/18/21	KAB	TJP	
2.	12/08/21	KAB	TJP	
3.	12/29/21	KAB	TJP	
4.	01/11/22	KAB	TJP	

**MODIFICATION TO SPECIAL USE PERMIT & SITE PLAN APPROVAL BAY POINTE CLUB MIXED USE DEVELOPMENT PHASE IV**  
in  
WAREHAM, MASSACHUSETTS

SCALE: 1"=40' SHEET NO: 5 OF 17  
DRAWN BY: TJP DESIGN BY: TJP CHECKED BY: TJP  
DATE: 11/4/21 PROJECT NO.: LD13-1 CEDA



OVERALL LANDSCAPE PLAN



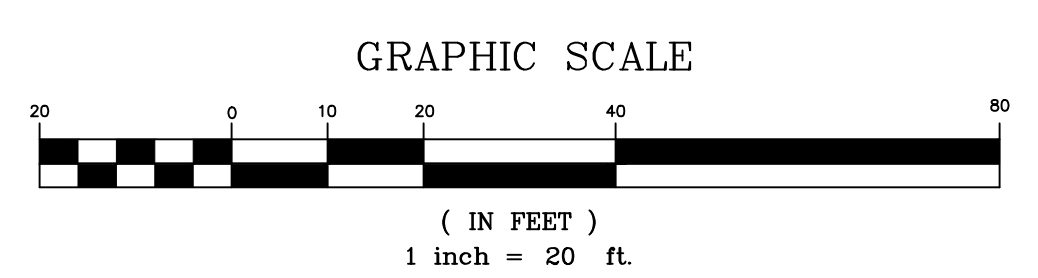
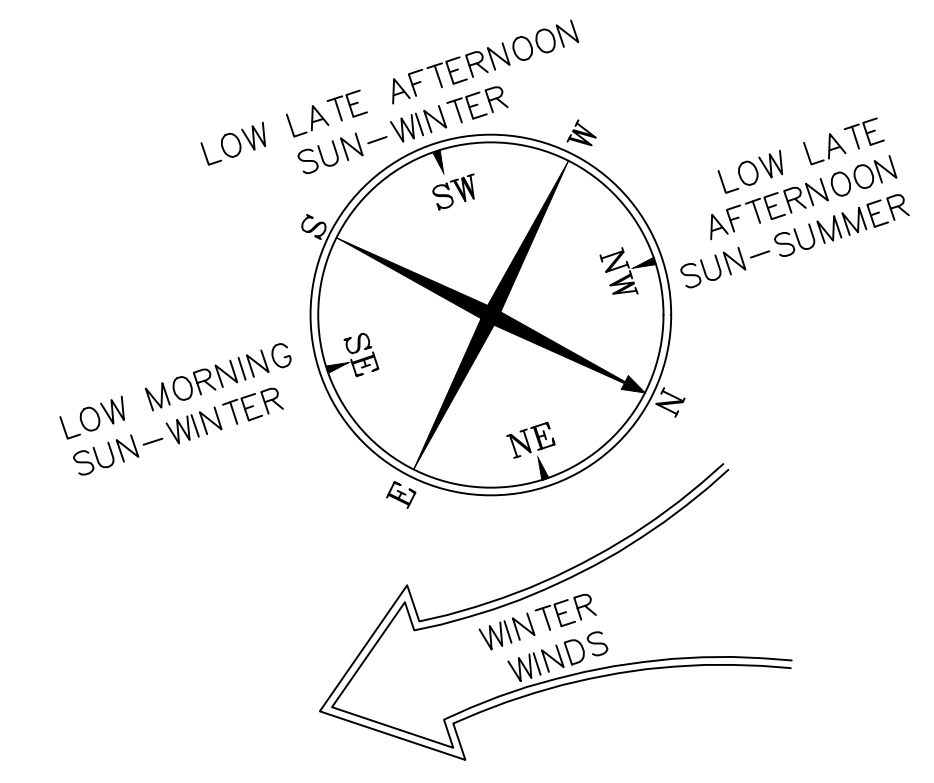
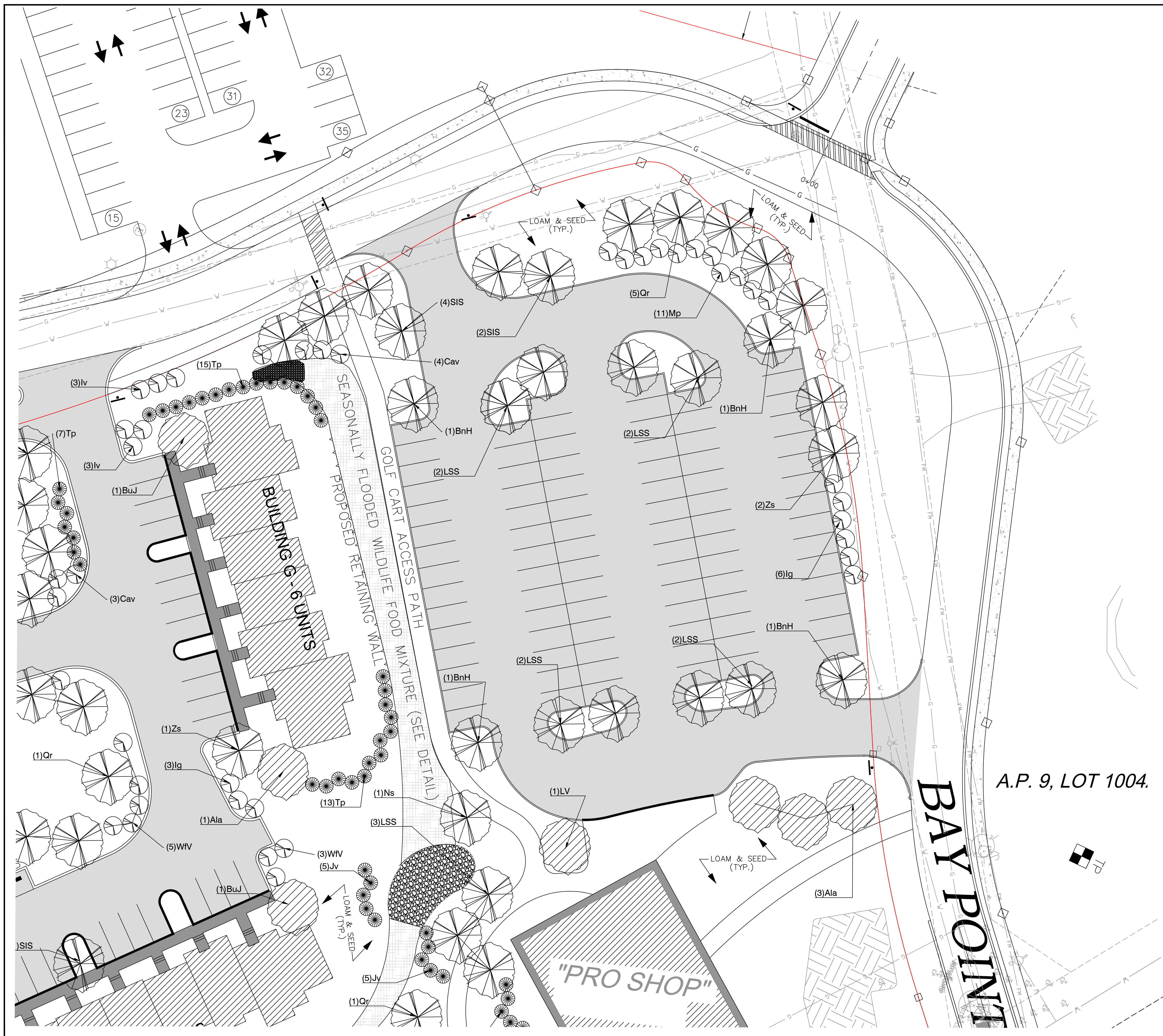
**PRINCIPE COMPANY, INC.**  
 ENGINEERING DIVISION  
 PO BOX 298  
 TIVERTON, RI 02878  
 401.816.5385  
 PRINCIPLEENGINEERING@GMAIL.COM  
 ESTABLISHED IN 1971

REVISIONS

No.	DATE	DRWN	CHKD
1.	11/18/21	KAB	TJP
2.	12/08/21	KAB	TJP
3.	12/29/21	KAB	TJP
4.	01/11/22	KAB	TJP

MODIFICATION TO SPECIAL USE PERMIT & SITE PLAN APPROVAL  
 BAY POINTE CLUB MIXED USE DEVELOPMENT PHASE IV  
 in  
 WAREHAM, MASSACHUSETTS

SCALE: 1"=40' SHEET NO: 6 OF 17  
 DRAWN BY: TJP DESIGN BY: TJP CHECKED BY: TJP  
 DATE: 11/4/21 PROJECT NO.: LD13-1 CEDA



A.P. 9, LOT 1004.

BAY POINT

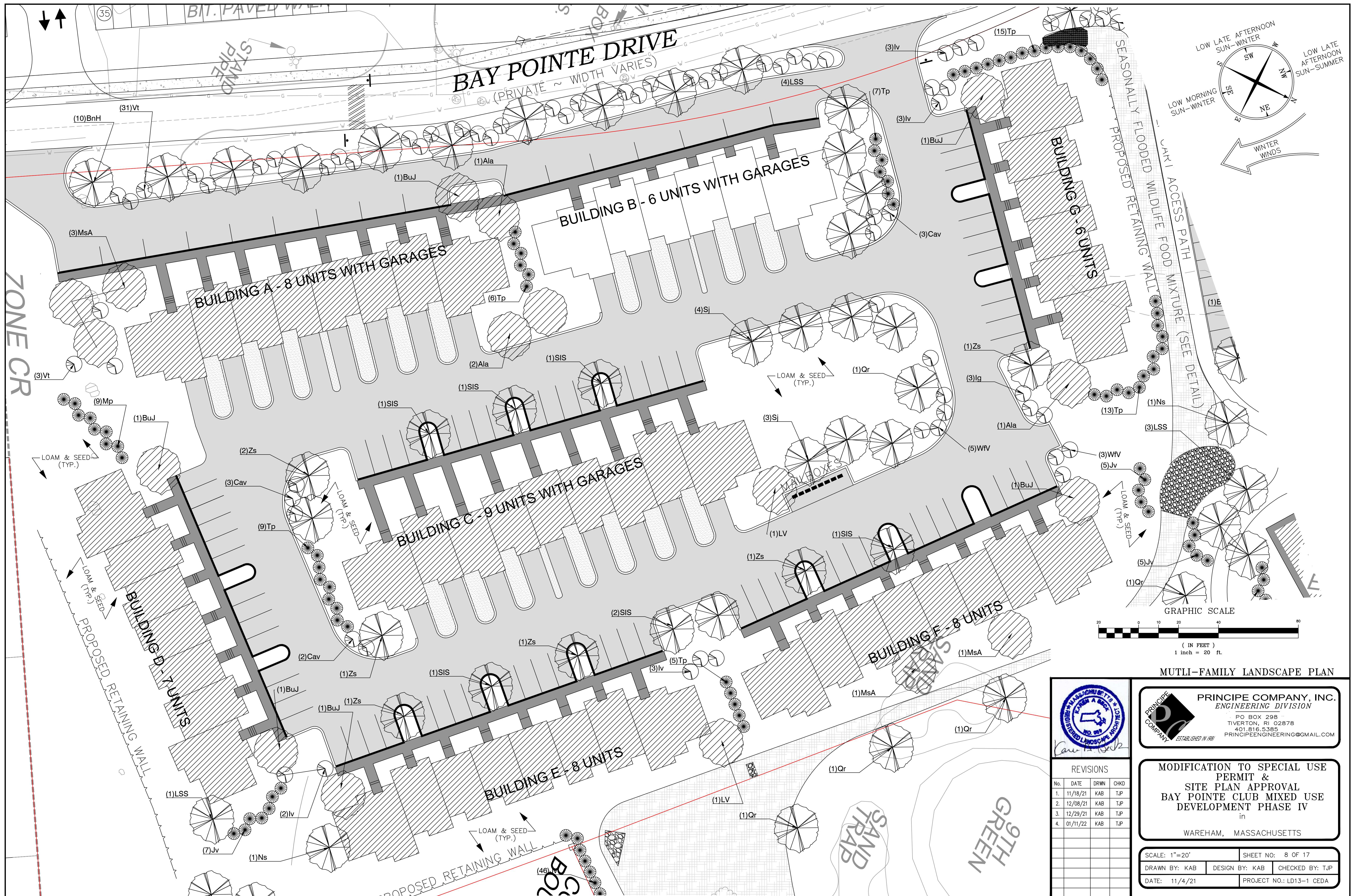


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MODIFICATION TO SPECIAL USE PERMIT & SITE PLAN APPROVAL  
 BAY POINTE CLUB MIXED USE DEVELOPMENT PHASE IV  
 in  
 WAREHAM, MASSACHUSETTS

SCALE: 1"=20'  
 SHEET NO.: 7 OF 17  
 DRAWN BY: KAB    DESIGN BY: KAB    CHECKED BY: TJP  
 DATE: 11/4/21    PROJECT NO.: LD13-1 CEDA



MULTI-FAMILY LANDSCAPE PLAN



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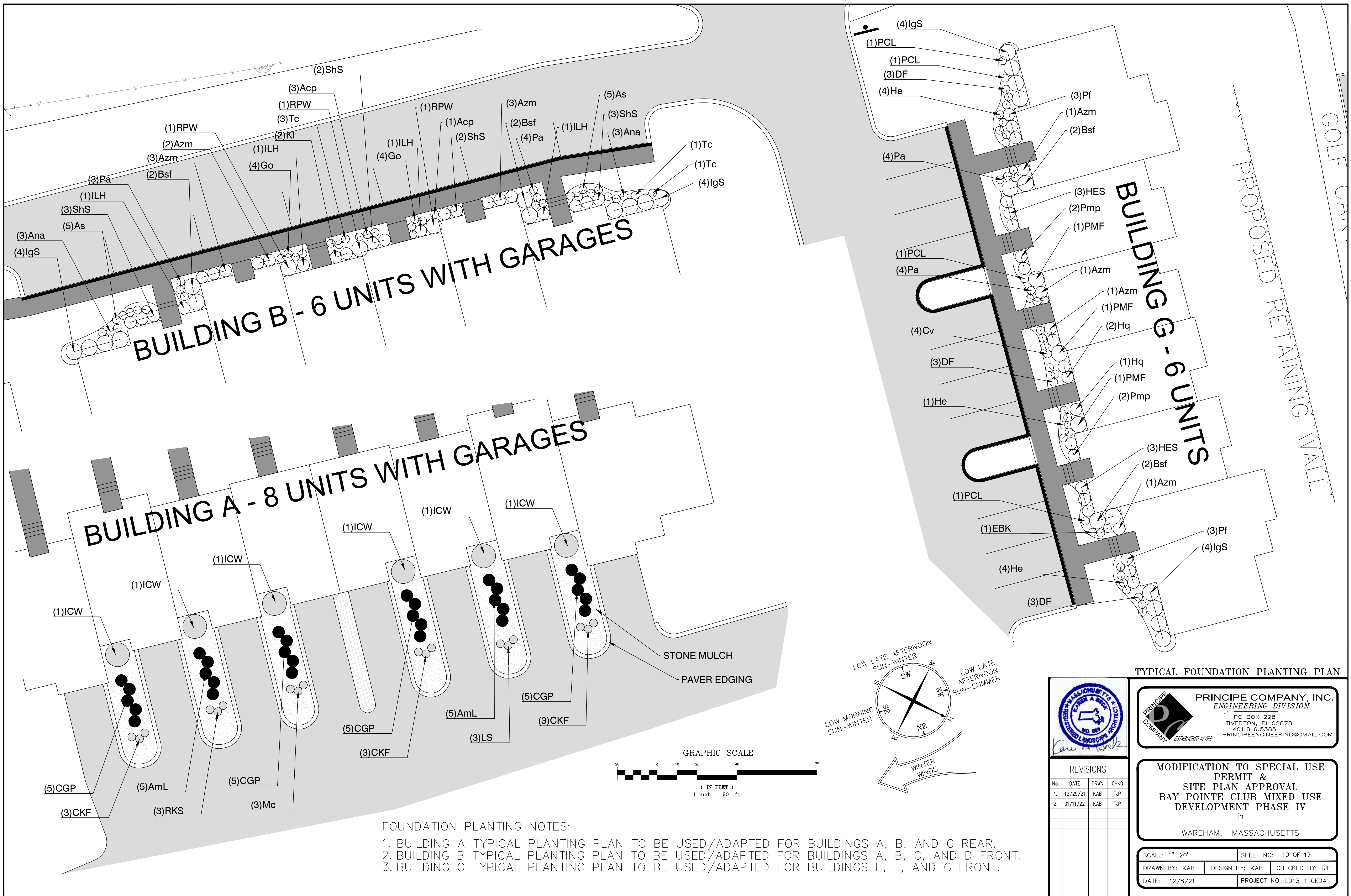
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1.	11/18/21	KAB	TJP	
2.	12/08/21	KAB	TJP	
3.	12/29/21	KAB	TJP	
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**MODIFICATION TO SPECIAL USE PERMIT & SITE PLAN APPROVAL**  
**BAY POINTE CLUB MIXED USE DEVELOPMENT PHASE IV**  
in  
WAREHAM, MASSACHUSETTS

SCALE: 1"=20'  
DRAWN BY: KAB    DESIGN BY: KAB    CHECKED BY: TJP  
DATE: 11/4/21    SHEET NO.: 8 OF 17    PROJECT NO.: LD13-1 CEDA







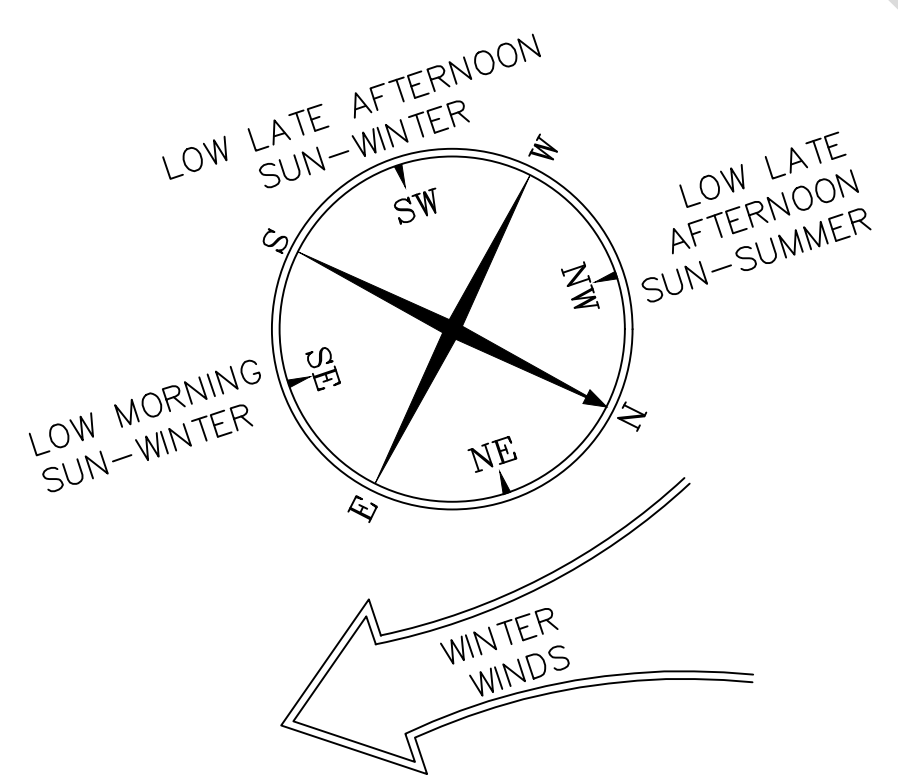
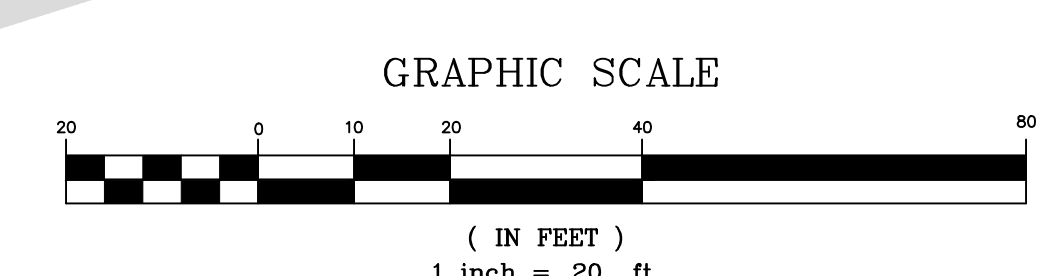
**BUILDING B - 6 UNITS WITH GARAGES**

**BUILDING A - 8 UNITS WITH GARAGES**

**BUILDING G - 6 UNITS**

PROPOSED RETAINING WALL

GOLF CART



- FOUNDATION PLANTING NOTES:
1. BUILDING A TYPICAL PLANTING PLAN TO BE USED/ADAPTED FOR BUILDINGS A, B, AND C REAR.
  2. BUILDING B TYPICAL PLANTING PLAN TO BE USED/ADAPTED FOR BUILDINGS A, B, C, AND D FRONT.
  3. BUILDING G TYPICAL PLANTING PLAN TO BE USED/ADAPTED FOR BUILDINGS E, F, AND G FRONT.

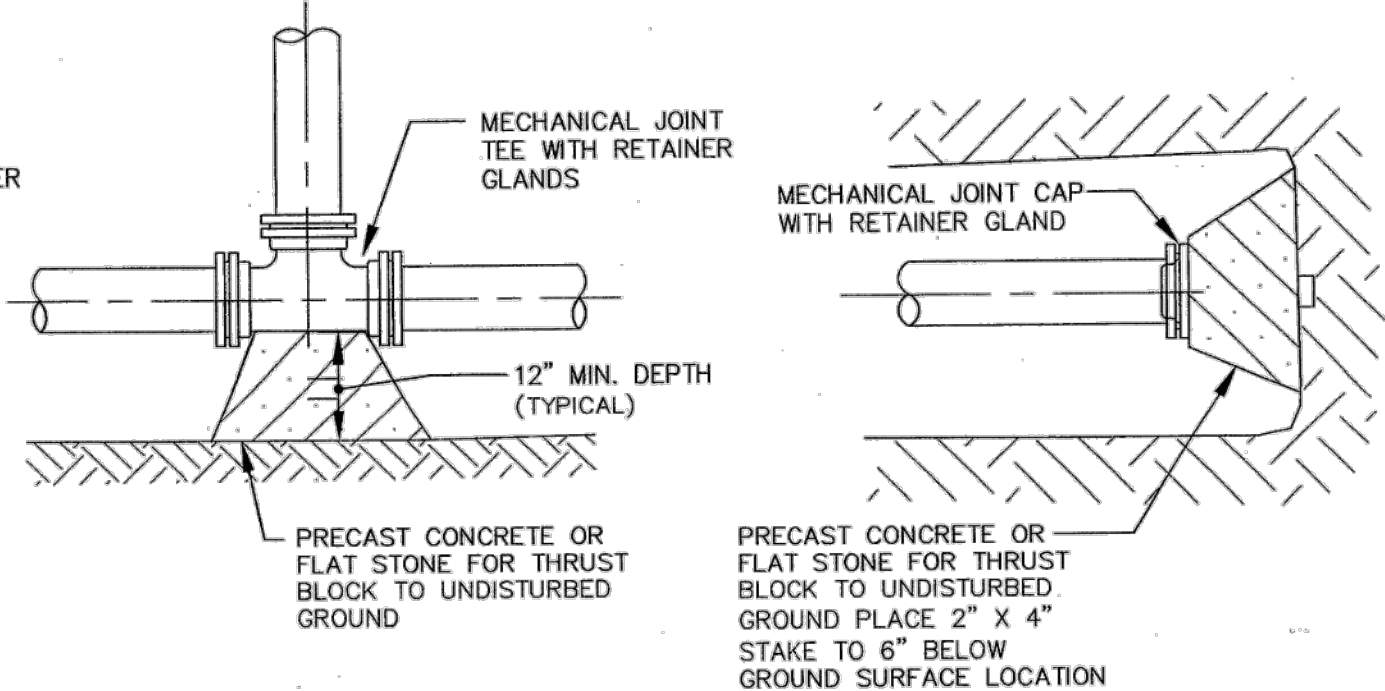
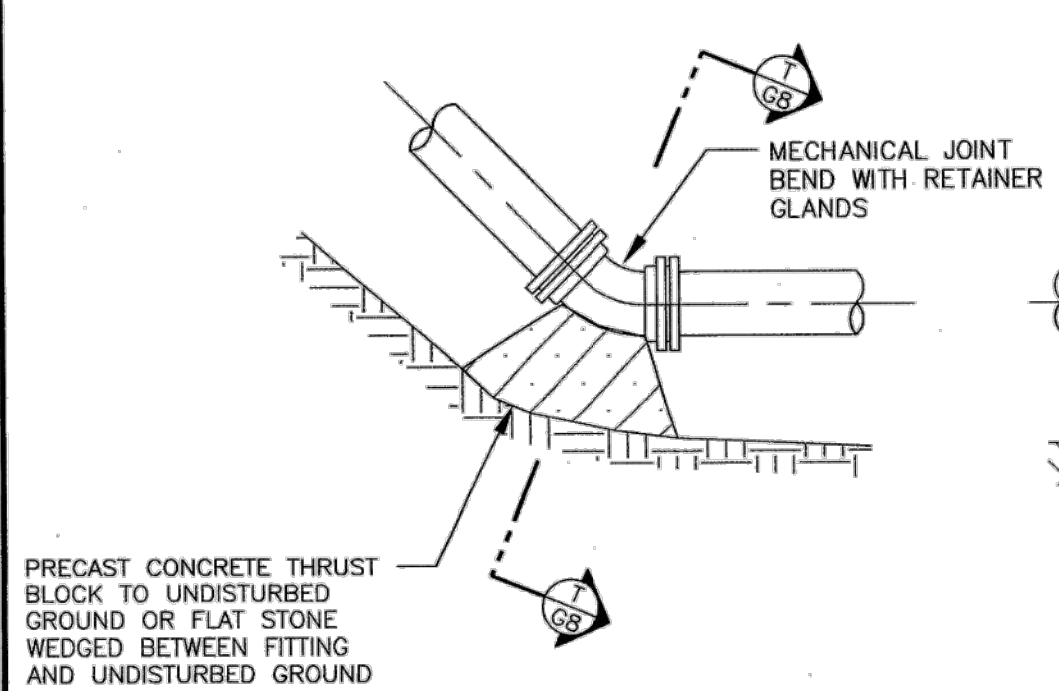
TYPICAL FOUNDATION PLANTING PLAN

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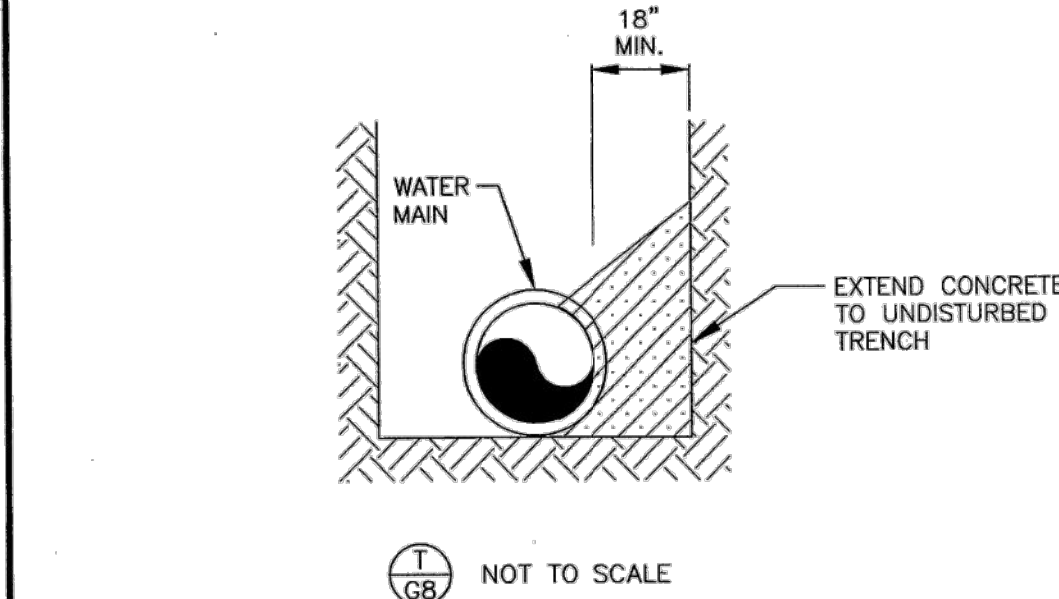
**MODIFICATION TO SPECIAL USE PERMIT & SITE PLAN APPROVAL**  
**BAY POINTE CLUB MIXED USE DEVELOPMENT PHASE IV**  
in  
WAREHAM, MASSACHUSETTS

SCALE: 1"=20'	SHEET NO: 10 OF 17	
DRAWN BY: KAB	DESIGN BY: KAB	CHECKED BY: TJP
DATE: 12/8/21	PROJECT NO.: LD13-1 CEDA	



**TYPICAL THRUST BLOCK DETAILS**

NOT TO SCALE



PIPE DIAMETER	BENDS				TEE
	11.25	22.5	45	90	
6	1	1	1	2	1.5
8	1	1	2	3	2.5
12	1	2	3.5	6.5	5

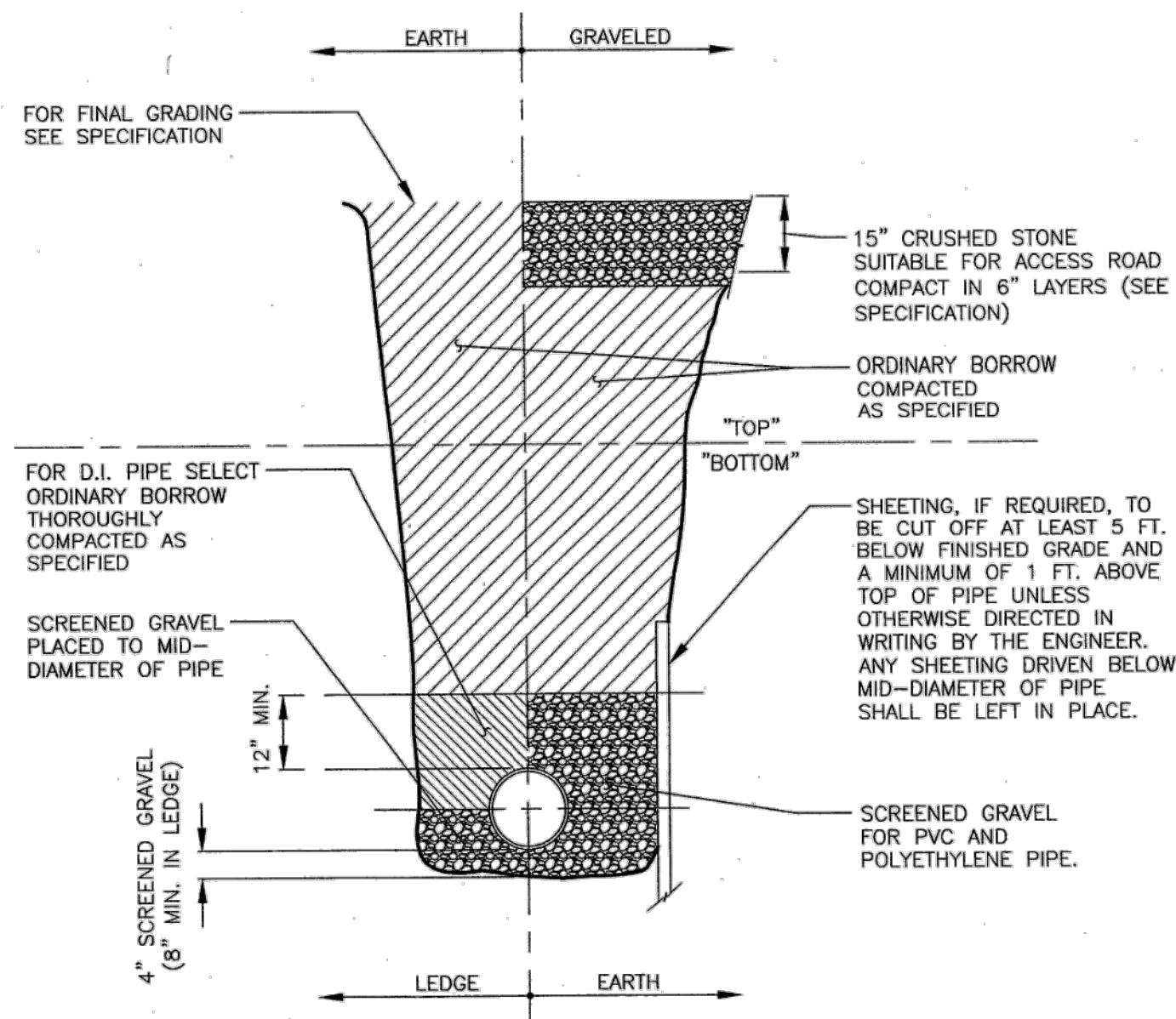
THRUST BLOCK BEARING AREA (SF)  
(BASED UPON 100 PSI WATER PRESSURE AND 3000 PSF BEARING LOAD CAPACITY)

**THRUST BLOCK TABLE**

	FITTINGS	RESTRAINED LENGTH (ft)
DUCTILE IRON WATER MAIN	8" 90° BEND	31
	8" 60° BEND	18
	8" 45° BEND	13
	8" 30° BEND	8
	8" 22.5° BEND	6
	8" 11.25° BEND	3
	8" x 8" TEE	52
PVC WATER MAIN	10" x 8" REDUCER	45
	8" x 6" REDUCER	34
	12" 90° BEND	58
	12" 60° BEND	35
	12" 45° BEND	24
	12" 30° BEND	16
	12" 22.5° BEND	12
	12" x 11.25° BEND	6
	12" x 12" TEE	87
	12" x 8" REDUCER	59
12" DEAD END	104	

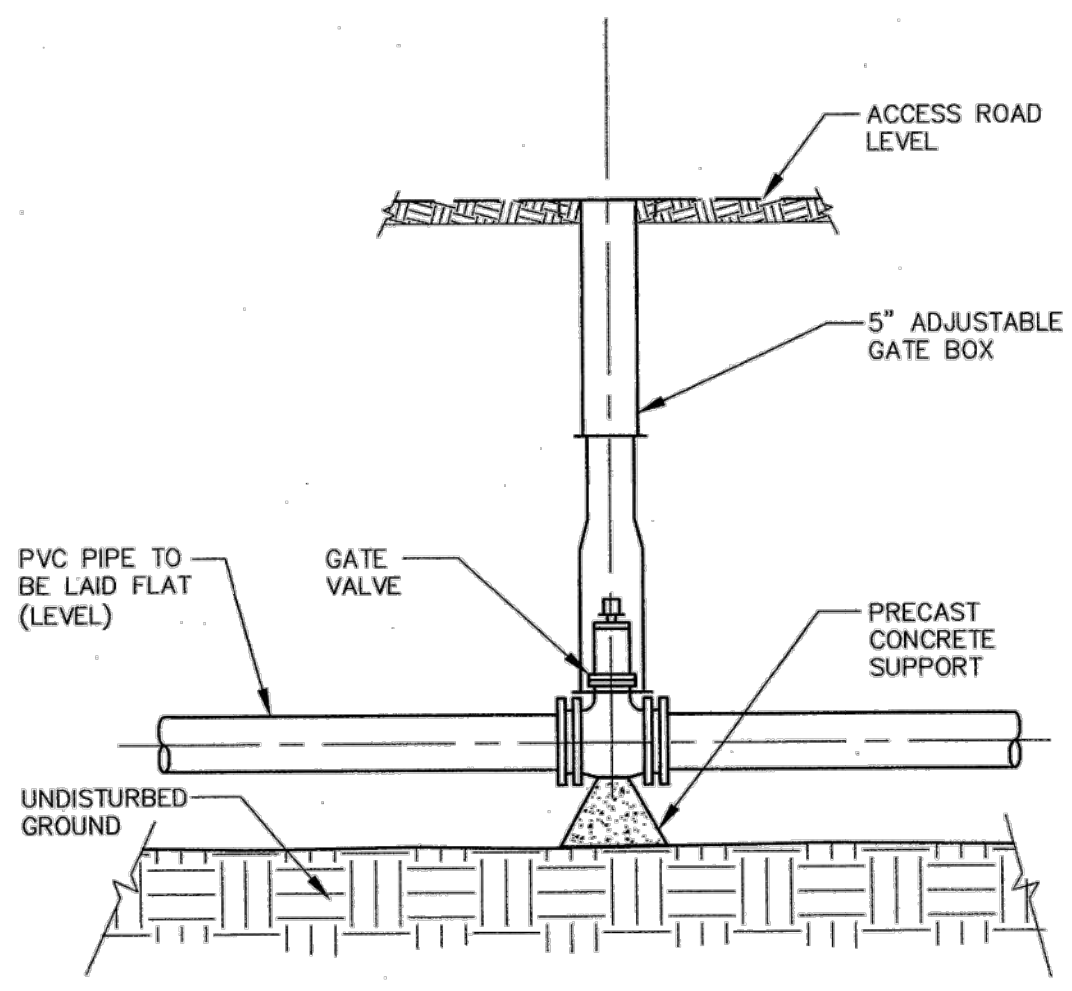
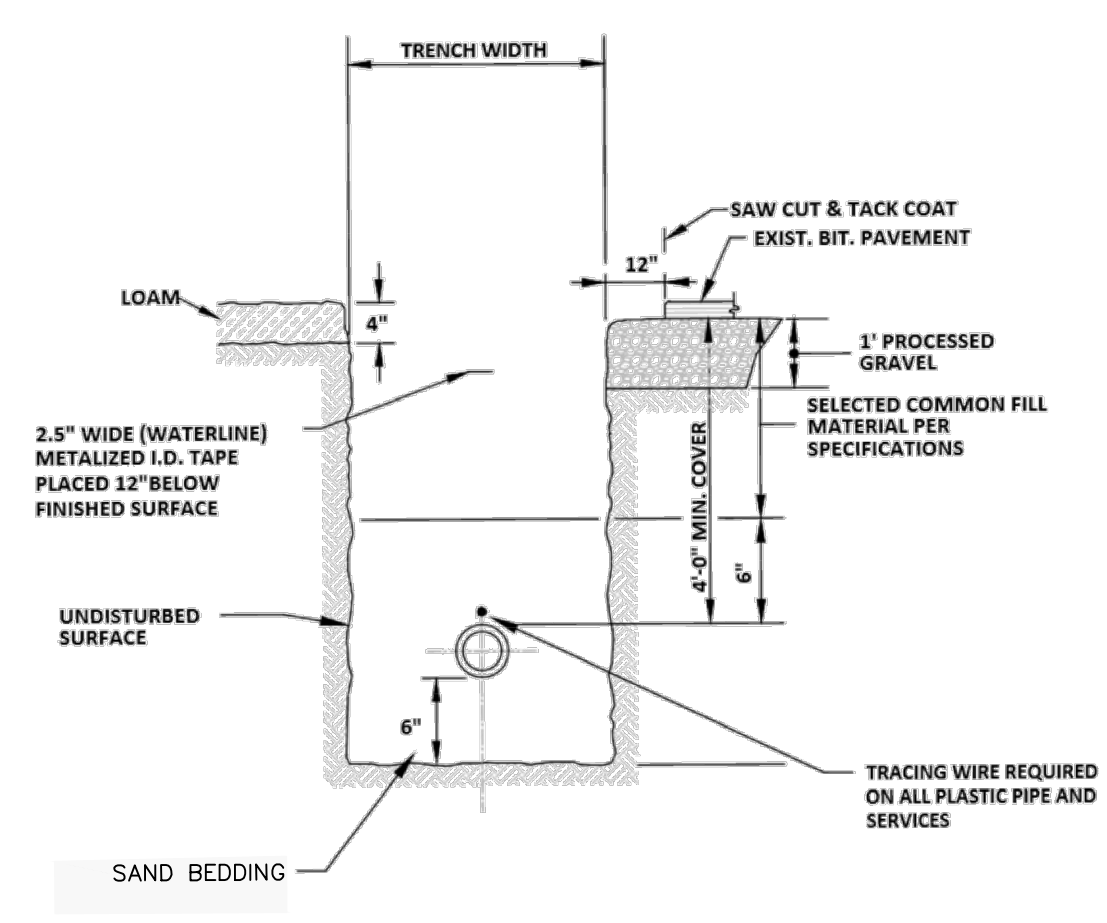
MINIMUM ONE RESTRAINED PIPE TO PIPE JOINT

**PUSH-ON-JOINT RESTRAINT TABLE**



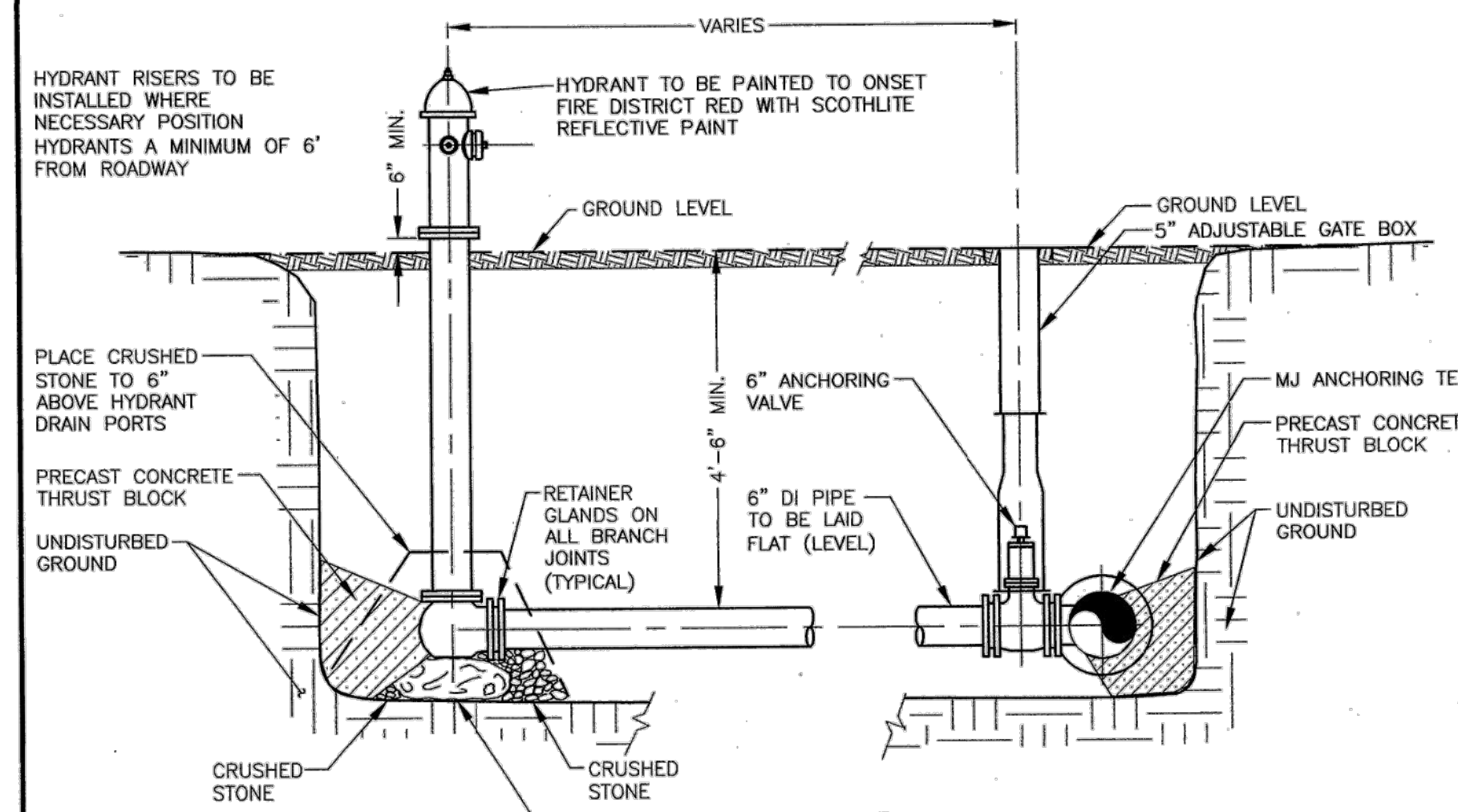
**TYPICAL TRENCH**

NOT TO SCALE



**TYPICAL GATE VALVE INSTALLATION**

NOT TO SCALE

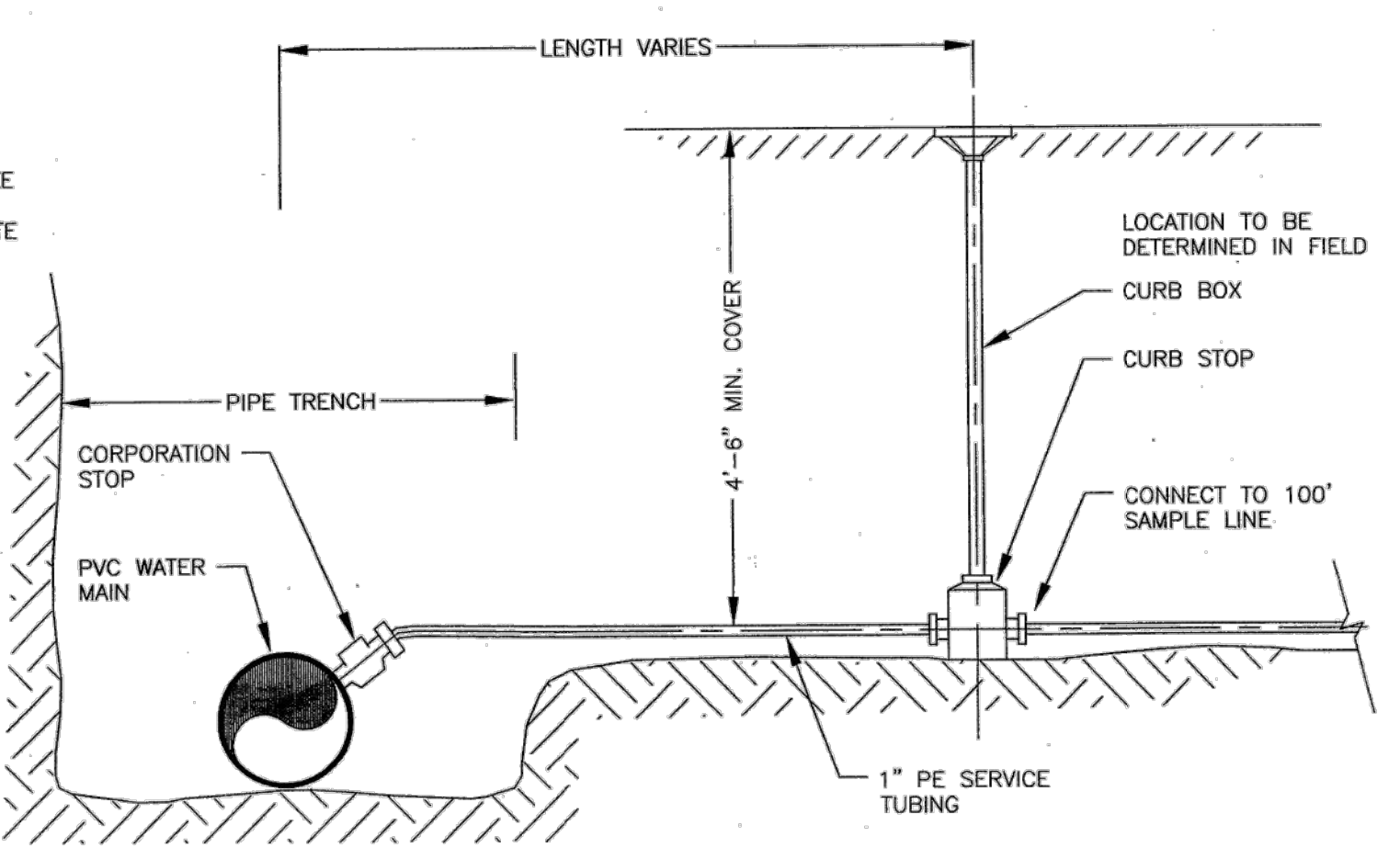


**TYPICAL HYDRANT ASSEMBLY INSTALLATION**

NOT TO SCALE

**NOTES:**

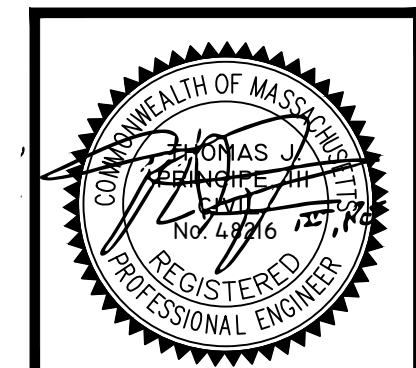
- FOR HYDRANTS INSTALLED AT DEAD END OF WATER MAINS: INSTALL VALVE WITH RESTRAINED JOINTS AND ONE FULL LENGTH OF PIPE BETWEEN VALVE AND HYDRANT WITH RESTRAINED JOINTS.



**100' SAMPLE LINE**

NOT TO SCALE

**DETAIL SHEET - 1**



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**MODIFICATION TO SPECIAL USE PERMIT & SITE PLAN APPROVAL BAY POINTE CLUB MIXED USE DEVELOPMENT PHASE IV**  
in  
WAREHAM, MASSACHUSETTS

SCALE: AS NOTED	SHEET NO: 11 OF 17
DRAWN BY: TJP	DESIGN BY: TJP
CHECKED BY: TJP	
DATE: 11/4/21	PROJECT NO.: LD13-1 CEDA

**GENERAL NOTES:**

- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH ANY APPLICABLE LOCAL, STATE AND FEDERAL LAWS GOVERNING HIS INTENDED ACTIVITIES. OSHA REGULATIONS ARE APPLICABLE OF PROJECT SITE CONSTRUCTION ACTIVITIES.
- ALL CONSTRUCTION WILL BE UNDERTAKEN IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE TOWN OF WARREN.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ABUTTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
- IF THE MUNICIPALITY REQUIRES A PROJECT PRE-CONSTRUCTION CONFERENCE, THE PROJECT DEVELOPER AND THE PROJECT CONTRACTOR WILL ATTEND AND WILL PROVIDE ALL REQUESTED MATERIALS PRIOR TO COMMENCING ANY WORK.
- IF CEMENT CONCRETE MIX TRUCKS ARE TO BE WASHED OUT ON SITE, THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING A WASH OUT AREA WITH APPROPRIATE PROTECTION CONTROLS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING COLLECTION AND STORAGE LOCATIONS ON-SITE FOR ALL CONSTRUCTION DEBRIS AND TRASH SO THAT THIS MATERIAL DOES NOT BECOME A NEIGHBORHOOD NUISANCE.
- ALL REQUIRED SITE IMPROVEMENTS SHALL BE INSPECTED BY THE TOWN ENGINEER TO ENSURE SATISFACTORY COMPLETION. IN NO CASE SHALL THE INSTALLATION OF ANY IMPROVEMENTS BE STARTED UNTIL PRIOR NOTIFICATION IS GIVEN TO THE TOWN ENGINEER. AT LEAST A 48-HOUR NOTICE SHALL BE GIVEN TO THE TOWN ENGINEER PRIOR TO ANY SUCH START OF CONSTRUCTION. A FINAL INSPECTION OF ALL SITE IMPROVEMENTS, UTILITIES AND GRADING WILL BE MADE TO DETERMINE WHETHER THE WORK IS SATISFACTORY AND IN SUBSTANTIAL AGREEMENT WITH THE APPROVED FINAL CONSTRUCTION DRAWING AND THE TOWN SPECIFICATIONS.
- LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES BOTH UNDERGROUND AND OVERHEAD. ANY DAMAGE TO EXISTING UTILITIES AS SHOWN OR NOT SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE BORNE BY THE CONTRACTOR. NO EXCAVATION SHALL BE DONE UNTIL ALL INVOLVED UTILITY COMPANIES ARE NOTIFIED 48-HOURS IN ADVANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY DIG-SAFE (1-800-344-7233) A MINIMUM OF 48 WORKING HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO THE START OF ANY EXCAVATION AND/OR BLASTING WORK. THE NAME OF THE COMPANY PERFORMING THE EXCAVATION AND/OR BLASTING WORK MUST BE SUPPLIED TO DIG-SAFE, IF IT IS DIFFERENT FROM THE CALLER.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY, BUT NOT LIMITED TO, THE COMMONWEALTH OF MASSACHUSETTS, THE FEDERAL GOVERNMENT, THE TOWN OF NORTH ATTLEBOROUGH AND ALL INDIVIDUAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK.
- ALL MATERIAL FOR FILL SHALL BE CLEAN AND FREE OF MATTER WHICH COULD POLLUTE ANY DOWN STREAM WATERCOURSE.
- FILL MATERIAL SHALL BE COMPACTED IN ONE FOOT (MAXIMUM) LIFTS TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-1557 (MODIFIED PROCTOR TEST).

Seasonally Flooded Wildlife Food Mix (LIMITS SHOWN ON LANDSCAPE PLAN SHEETS 5-8).

Mix Composition  
 21.5% Panicum clandestinum, Tioga (Deertongue, Tioga)  
 20.0% Elymus virginicus, Madison-NY Ecotype (Virginia Wildrye, Madison-NY Ecotype)  
 16.6% Andropogon gerardii, 'Niagara' (Big Bluestem, Niagara)  
 15.0% Echinochloa crusgalli var. frumentacea (Japanese Millet)  
 10.0% Carex vulpinoidea, PA Ecotype (Fox Sedge, PA Ecotype)  
 8.0% Panicum virgatum, 'Shawnee' (Switchgrass, Shawnee)  
 4.0% Chamaecrista fasciculata, PA Ecotype (Partridge Pea, PA Ecotype)  
 1.5% Verbena hastata, PA Ecotype (Blue Vervain, PA Ecotype)  
 1.0% Helianthus annuus, PA Ecotype (Oxeye Sunflower, PA Ecotype)  
 1.0% Juncus effusus (Soft Rush)  
 0.8% Agrostis perennans, Albany Pine Bush-NY Ecotype (Autumn Bentgrass, Albany Pine Bush-NY Ecotype)  
 0.1% Asclepias incarnata, PA Ecotype (Swamp Milkweed, PA Ecotype)  
 0.1% Aster novae-angliae, PA Ecotype (New England Aster, PA Ecotype)  
 0.1% Eupatorium fistulosum, PA Ecotype (Joe Pye Weed, PA Ecotype)  
 0.1% Eupatorium perfoliatum, PA Ecotype (Boneset, PA Ecotype)  
 0.1% Monarda fistulosa, Fort Indiantown Gap-PA Ecotype (Wild Bergamot, Fort Indiantown Gap-PA Ecotype)  
 0.1% Pycnanthemum tenuifolium (Narrowleaf Mountainmint)

General Product Information:  
 This combination of annual and perennial grasses, forbs and grass-like plants provide food and cover in wet or flooded riparian areas, as well as in draw-down areas in retention basins or wetlands. Seed from October-May. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

Item Number: ERNMX-128  
 Product Categories:  
 Wet Meadows & Wetlands, Wildlife Habitat & Food Plots  
 Height: 0.3 - 7.0 Ft  
 Seeding Rate: 20 lb per acre, or 1/2 lb per 1,000 sq ft with a cover crop. For a cover crop use one of the following: grain rye (1 Sep to 30 Apr; 30 lbs/acre), Japanese millet (1 May to 31 Aug; 10 lbs/acre), or barnyard grass (1 May to 31 Aug; 10 lbs/acre).

**VEGETATIVE COVER AND PLANTING**

- THE NORMAL ACCEPTABLE SEASONABLE SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
- TOP SOIL FOR PERMANENT OR LONG TERM TEMPORARY SEEDING SHOULD HAVE A SANDY LOAM TEXTURE, RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS. TOP SOIL SHALL CONFORM WITH RHODE ISLAND SPECIFICATIONS M18.01.
- THE DESIGN SEED MIX UTILIZED IN ALL DISTURBED AREAS TO BE SEEDDED SHALL BE COMPRISED OF THE FOLLOWING:

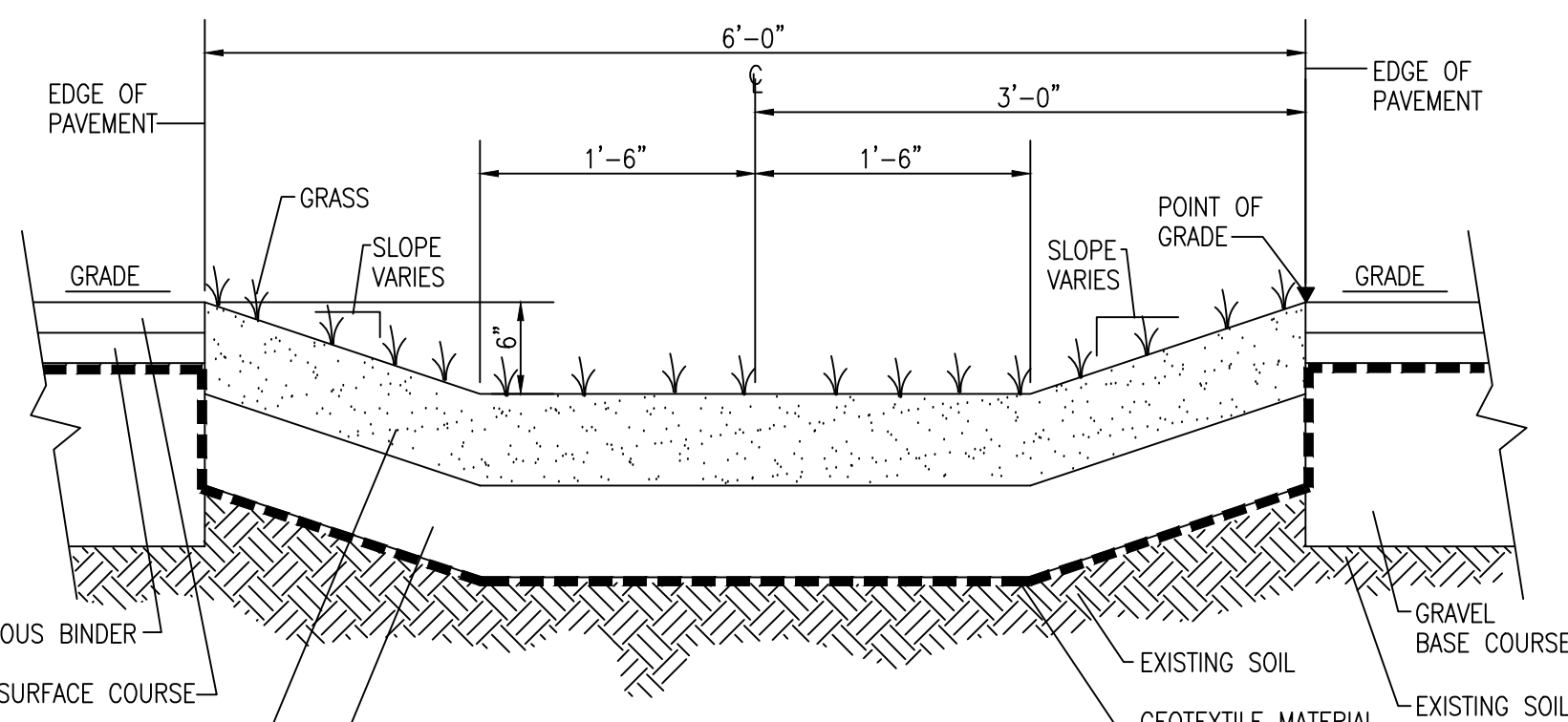
TYPE	% BY WEIGHT	SEEDING DATE
CREeping RED FESCUE	70	
ASTORIA BENTGRASS	5	APRIL 1 - JUNE 15
BIRDFOOT TREFOIL	15	AUG. 15 - OCT. 15
PERENNIAL RYE GRASS	10	

APPLICATION RATE - 100 LBS PER ACRE

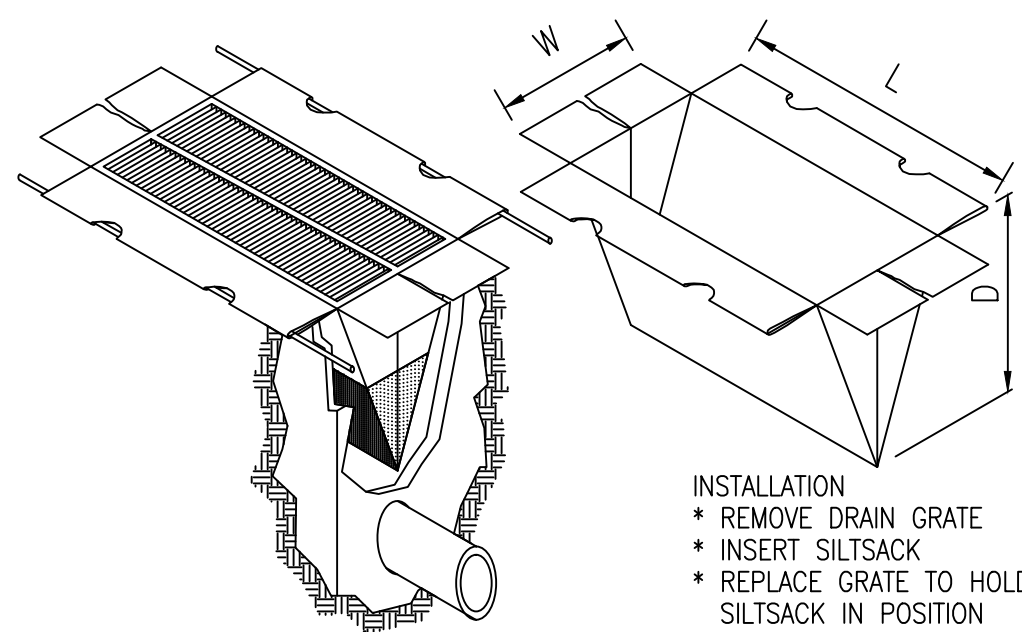
SEED MIX SHALL BE INOCULATED WITHIN 24 - HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULATION FOR EACH SEED VARIETY. ALTERNATE SEED TYPES DUE TO SITE SPECIFIC CONDITIONS AND SOILS ARE ACCEPTABLE WITH THE ENGINEER'S APPROVAL.

4. IN TOPSOIL SEEDING AREAS, THE CONTRACTOR WILL LIME AND FERTILIZE AS REQUIRED TO COMPLIMENT OR UPGRADE SOIL CONDITIONS.

5. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY PERMANENT VEGETATIVE COVER AREAS THAT DO NOT DEVELOP OR WHICH ERODE WITHIN A ONE (1) YEAR PERIOD.

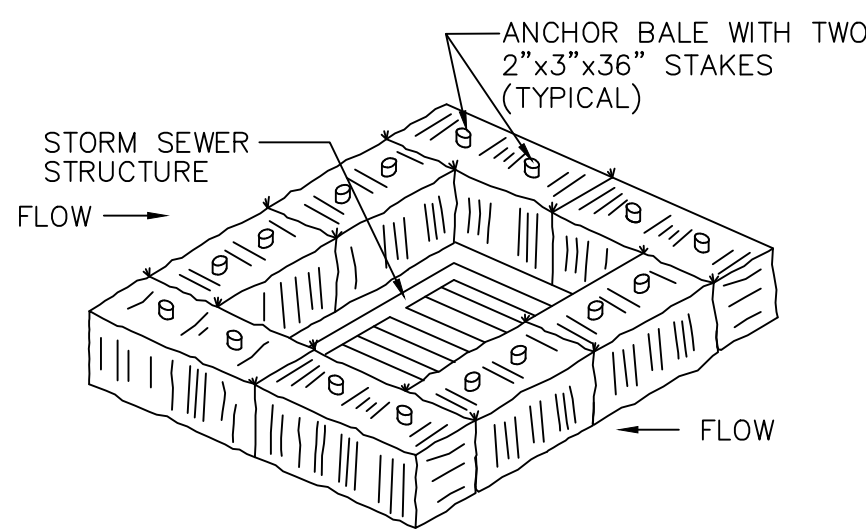


**TYPICAL GRASSED SWALE**  
NOT TO SCALE

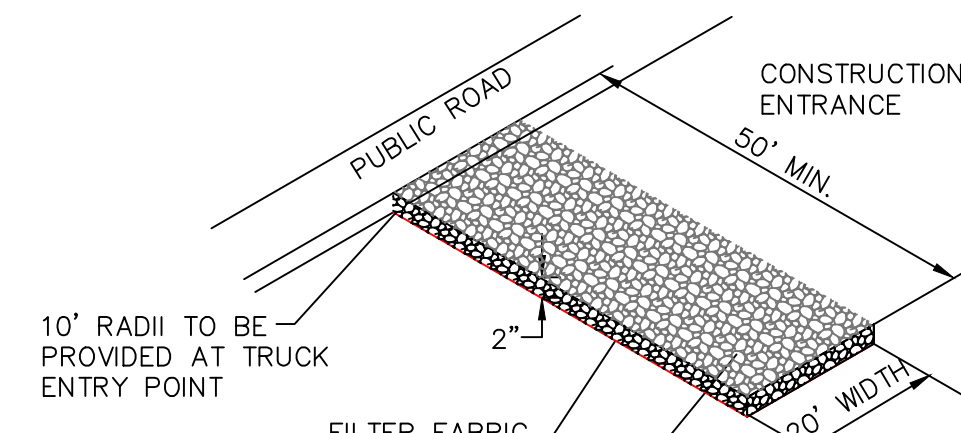


AS MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL  
**SILTSACK DETAIL**  
NOT TO SCALE

NOTE: WHERE INDICATED ON THE PLANS, CATCH BASIN GRATE SHALL INITIALLY BE SET 1'-0" HIGHER THAN DESIGN ELEVATION TO ALLOW FOR SEDIMENTATION. AFTER VEGETATIVE COVER HAS BEEN ESTABLISHED, RIM SHALL BE LOWERED TO DESIGN ELEVATION.

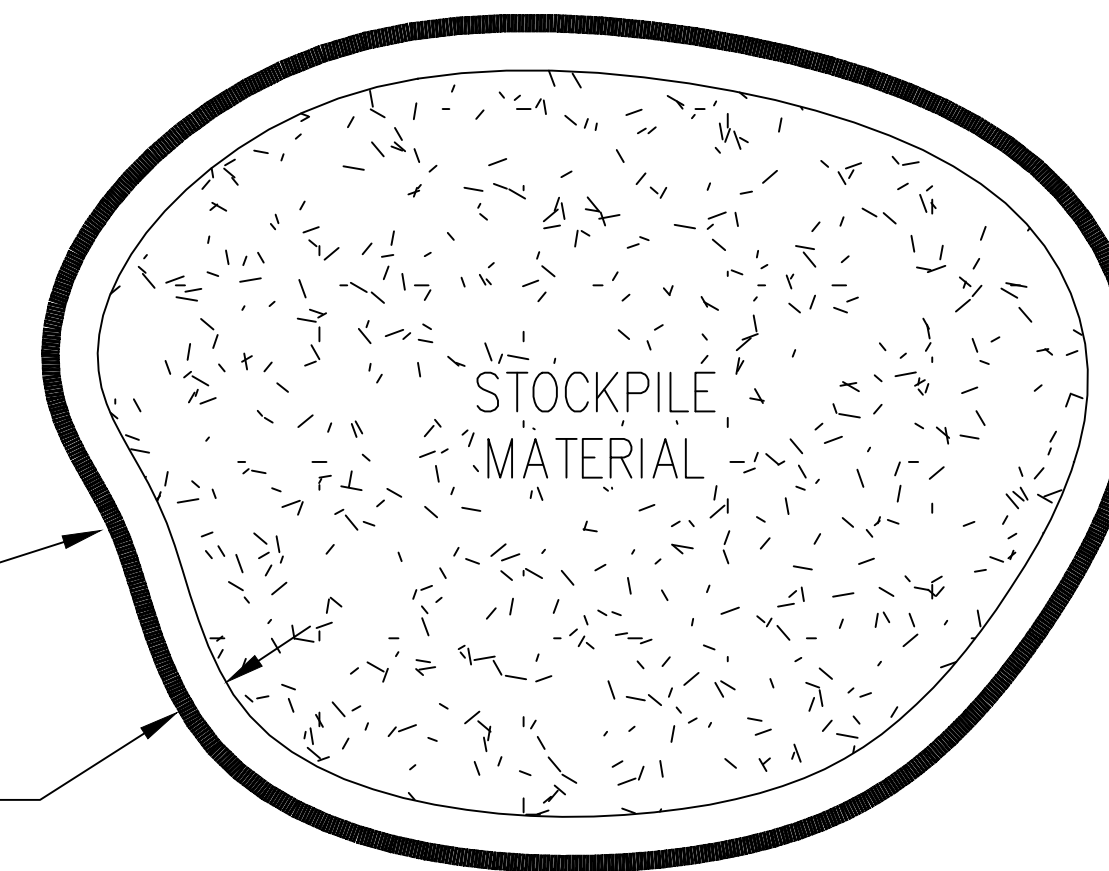


**STRAW BALE CATCH BASIN PROTECTION**  
NOT TO SCALE

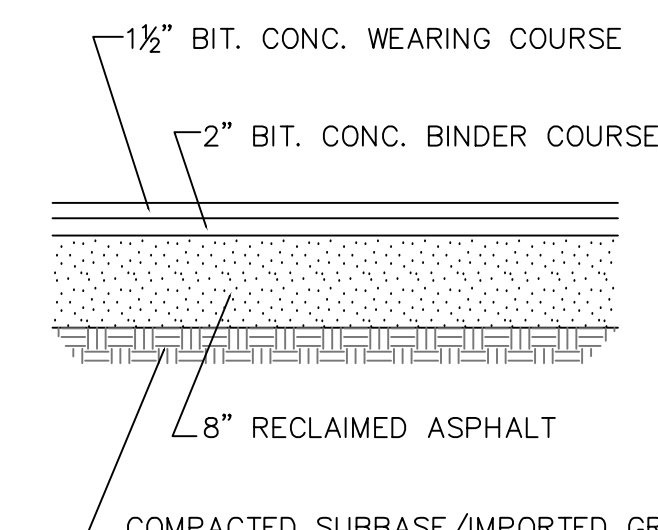


MATERIALS SIZE			
SQUARE MESH SIEVES	2" CRUSHED STONE OR GRAVEL	ASTM C-33 NO. 2	ASTM C-33 NO. 3
	% FINER	% FINER	% FINER
2-1/2 INCHES	100	90-100	100
2 INCHES	95-100	35-70	90-100
1-1/2 INCHES	30-55	0-15	35-70
1-1/4 INCHES	0-25	-	-
1 INCH	0-5	-	0-15
3/4 INCH	-	0-5	-
1/2 INCH	-	-	0-5
3/8 INCH	-	-	-

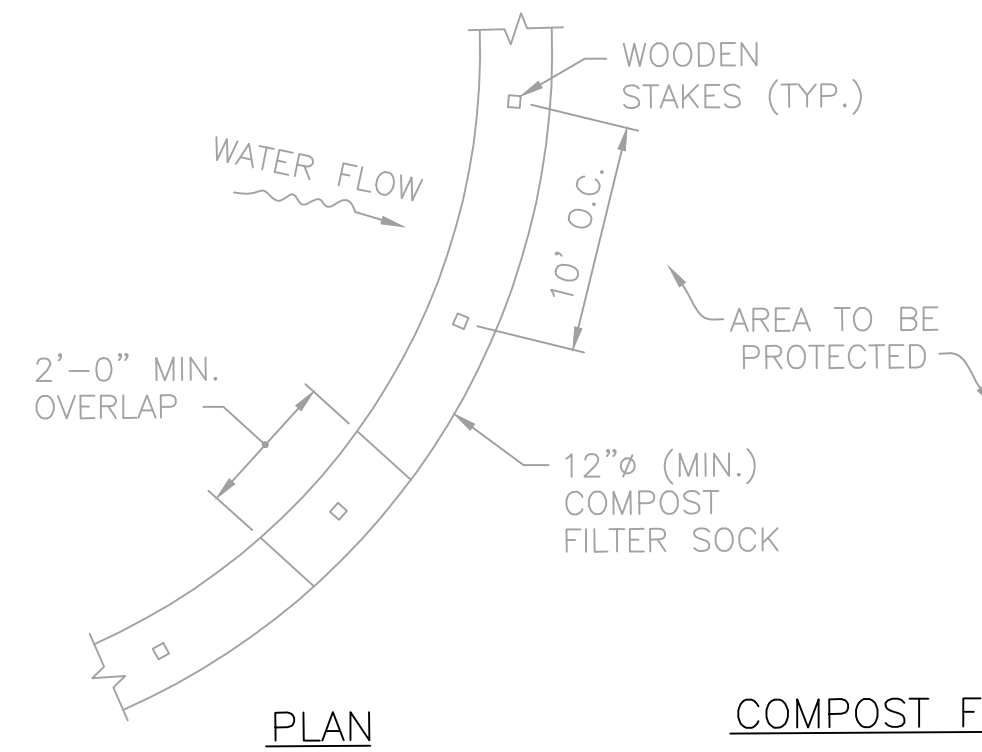
**RIP-RAP STABILIZATION PAD @ CONSTRUCTION ENTRANCE**  
NOT TO SCALE



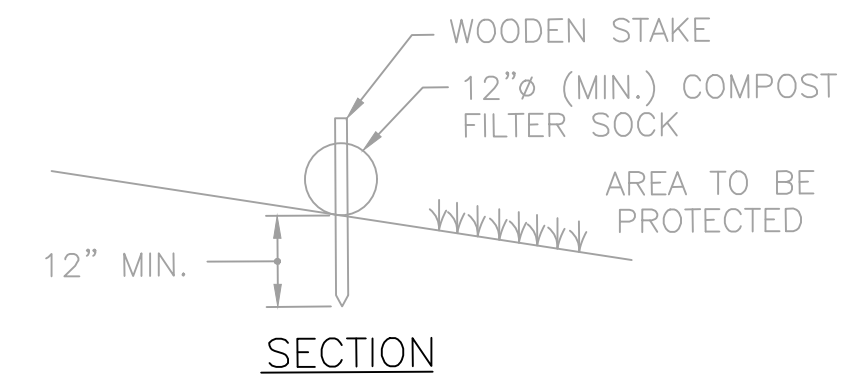
**STOCKPILE DETAIL**  
NOT TO SCALE



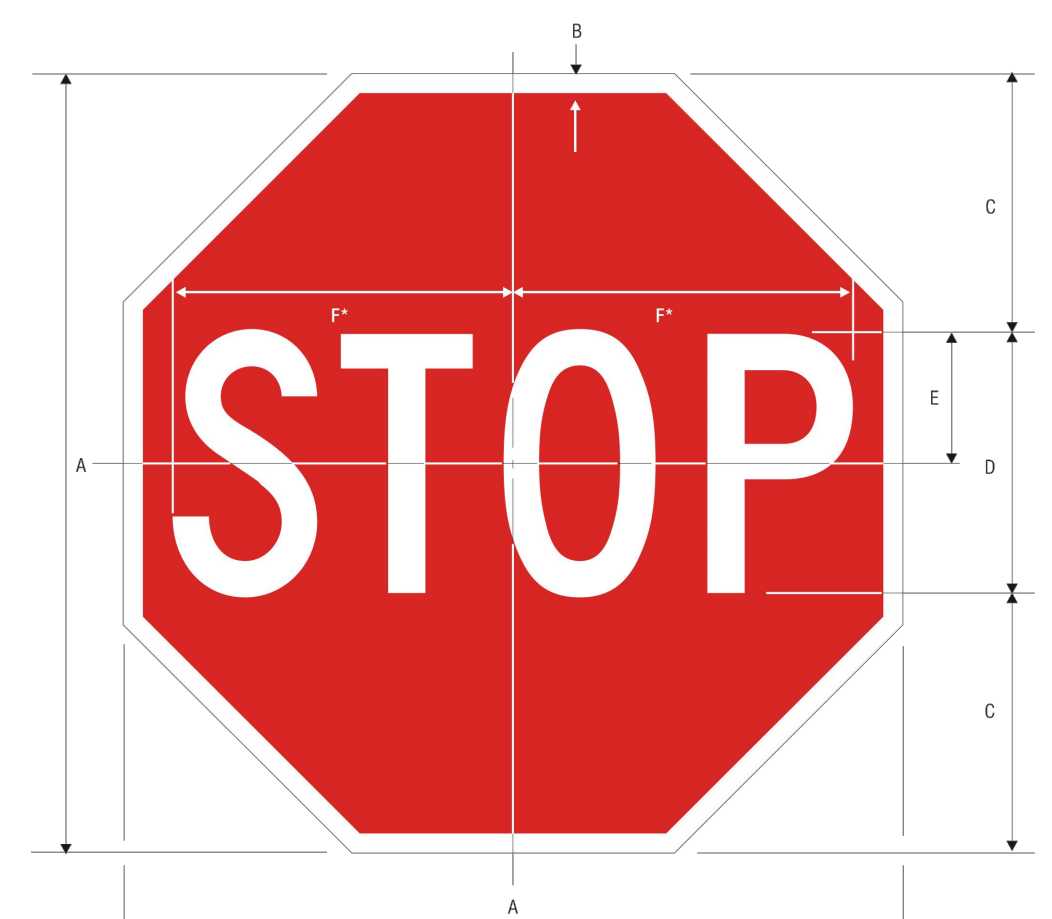
**PAVEMENT TYPICAL CROSS SECTION**  
NOT TO SCALE



**COMPOST FILTER SOCK**



**PERIMETER EROSION CONTROLS**  
NOT TO SCALE



**R1-1 STOP**

\*Reduce spacing 40%

A	B	C	D	E	F
18	.375	6	6 C	3	7.75
24	.625	8	8 C	4	10
30	.75	10	10 C	5	12.5
36	.875	12	12 C	6	15
48	1.25	16	16 C	8	20

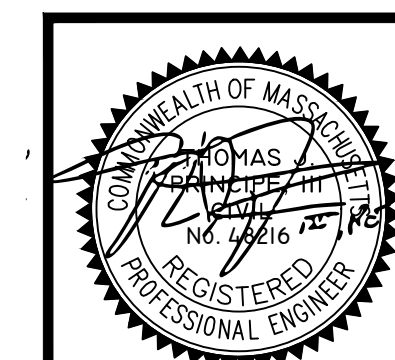
COLORS: LEGEND - WHITE (RETROREFLECTIVE)  
BACKGROUND - RED (RETROREFLECTIVE)

1-1

**DETAIL SHEET - 2**

**EROSION CONTROL, SOIL STABILIZATION AND SEDIMENT CONTROL PLAN**

- PRIOR TO THE COMMENCEMENT OF ANY CLEARING, GRUBBING, DEMOLITION OR EARTHWORK ACTIVITY, TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE PLANS ARE TO BE INSTALLED BY THE CONTRACTOR.
- CONSTRUCTION ACCESS STABILIZATION ENTRANCE PADS ARE TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF SITE GRUBBING OR EARTHWORK ACTIVITY.
- EXISTING CATCH BASINS ARE TO BE PROTECTED WITH HAY BALES AND/OR SILT SACS PRIOR TO THE START OF SITE GRUBBING, EARTHWORK OR UNDERGROUND UTILITY AND DRAINAGE INFRASTRUCTURE INSTALLATION TO SERVE THE DEVELOPMENT SITE.
- THE PROJECT CONSTRUCTION SEQUENCE, TO THE EXTENT PRACTICAL, SHOULD REQUIRE THE INSTALLATION OF DOWN GRADE AND OFF SITE STORM DRAINAGE SYSTEM IMPROVEMENTS BEFORE THE START OF SITE GRUBBING AND EARTHWORK ACTIVITY.
- TEMPORARY SITE SLOPE TREATMENTS FOR SOIL STABILIZATION SHALL CONSIST OF HAY, STRAW, FIBER MULCH, RIP RAP OR PROTECTIVE COVERS SUCH AS MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, AND EXCELSIOR OR EQUAL PRODUCTS). THESE AND OTHER ACCEPTABLE MEASURES SHALL BE INCORPORATED INTO THE SITE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
- CONSTRUCTION SITES ARE DYNAMIC. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND OR MOVEMENT AND MAINTENANCE OF EROSION CONTROLS, SOIL STABILIZATION AND SEDIMENT CONTROL MEASURES AS NEEDED TO MAXIMIZE THE INTENT OF THE PLAN FOR ALL SITE CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERIODIC INSPECTION, MAINTENANCE, REPAIR, AND REPLACEMENT OF EROSION CONTROLS, SOIL STABILIZATION AND SEDIMENT CONTROL DEVICES UNTIL AN ACCEPTABLE PERMANENT VEGETATIVE GROWTH IS ESTABLISHED. THE CONTRACTOR SHALL MAINTAIN A DETAILED LOG OF ALL EROSION CONTROL INSPECTIONS, COMPLAINTS RELATED TO EROSION OR SEDIMENT, AND CORRECTIVE REMEDIAL MEASURES TAKEN THROUGHOUT THE COURSE OF THE PROJECT CONSTRUCTION.
- SOIL EROSION AND SEDIMENT CONTROL IS NOT LIMITED TO DAMAGES CAUSED BY WATER BUT ALSO INCLUDES EROSION AND SEDIMENT RESULTING FROM WINDS. MEASURES, SUCH AS TEMPORARY GROUND COVERS, WATER AND CALCIUM APPLICATIONS ARE TO BE UNDERTAKEN AS NEEDED TO MINIMIZE WIND RELATED SOIL AND DUST CONTROL.
- STOCK PILES OF EARTH MATERIALS SHALL NOT BE LOCATED NEAR WATERWAYS OR WETLANDS. STOCK PILES SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%). STOCK PILES SHALL BE SURROUNDED ON THE DOWN GRADIENT OF THE EXISTING GROUND SURFACE BY HAY BALES OR SILT FENCE. THE STOCK PILES SHALL ALSO BE SEEDDED OR STABILIZED IN SOME MANNER TO PREVENT SOIL EROSION.
- THE SMALLEST POSSIBLE SITE AREAS SHALL BE DISTURBED OR EXPOSED AT ONE TIME AND DENUDE SLOPES OR WORK AREAS SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME, SUCH AS INACTIVE PERIODS OR SITE WORK SHUT DOWNS.
- TO THE EXTENT POSSIBLE, ALL DISTURBED AREAS MUST BE SEEDDED OR STABILIZED WITHIN THE CONSTRUCTION SEASON. STABILIZATION OF ONE FORM OR ANOTHER SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
- EXPOSED STEEP OR LONG SLOPES SHOULD BE TREATED WITH "CRIMPING" OR "TRACKING" TO REDUCE EROSION AND SEDIMENT AND TO TACK DOWN SEEDING OR MULCH APPLICATIONS.
- IF CONCRETE IS TO BE USED ON SITE, THE CONTRACTOR MUST ESTABLISH AND MAINTAIN SPECIFIC WASHOUT AREAS FOR THE CONCRETE TRUCKS WITH APPROPRIATE PROTECTION CONTROLS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING COLLECTION AND STORAGE LOCATIONS ON-SITE FOR ALL CONSTRUCTION DEBRIS AND TRASH SO THAT THIS MATERIAL DOES NOT BECOME A NEIGHBORHOOD NUISANCE.
- EXISTING TREES AND VEGETATION WILL BE RETAINED WHENEVER FEASIBLE.
- SITE SOIL EROSION AND SOIL STABILIZATION AND SEDIMENT CONTROLS MUST CONFORM TO ALL REQUIREMENTS OF THE APPLICABLE LOCAL COMMUNITY ORDINANCES AND STATE REGULATIONS.



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**REVISIONS**

No.	DATE	DRWN	CHKD
1.	12/08/21	KAB	TJP
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**MODIFICATION TO SPECIAL USE PERMIT & SITE PLAN APPROVAL BAY POINTE CLUB MIXED USE DEVELOPMENT PHASE IV**  
in  
WAREHAM, MASSACHUSETTS

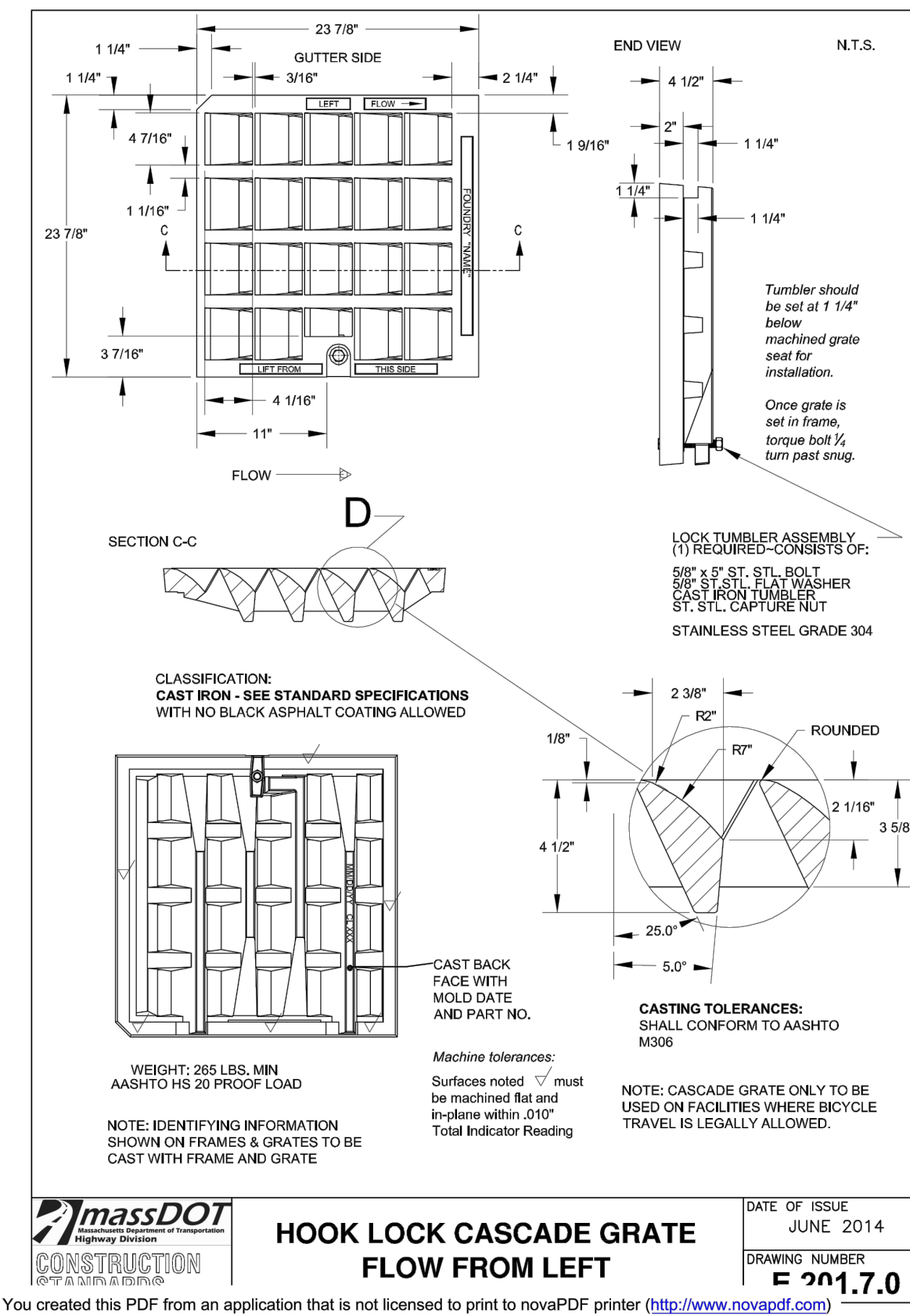
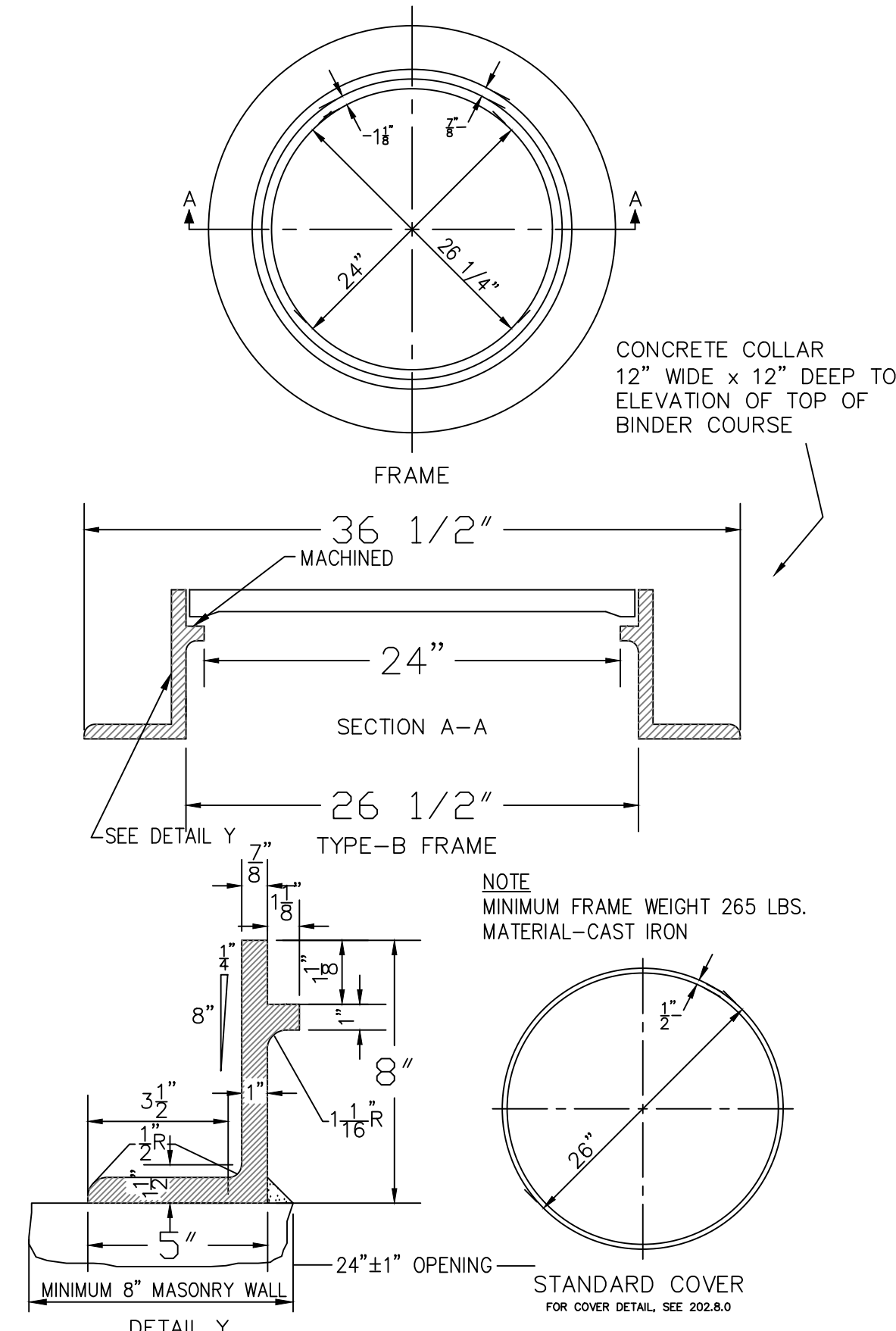
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DRAWN BY: TJP	DESIGN BY: TJP
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DATE: 11/4/21	PROJECT NO.: LD13-1 CEDA

**STORM DRAINAGE SYSTEM MAINTENANCE PLAN:**

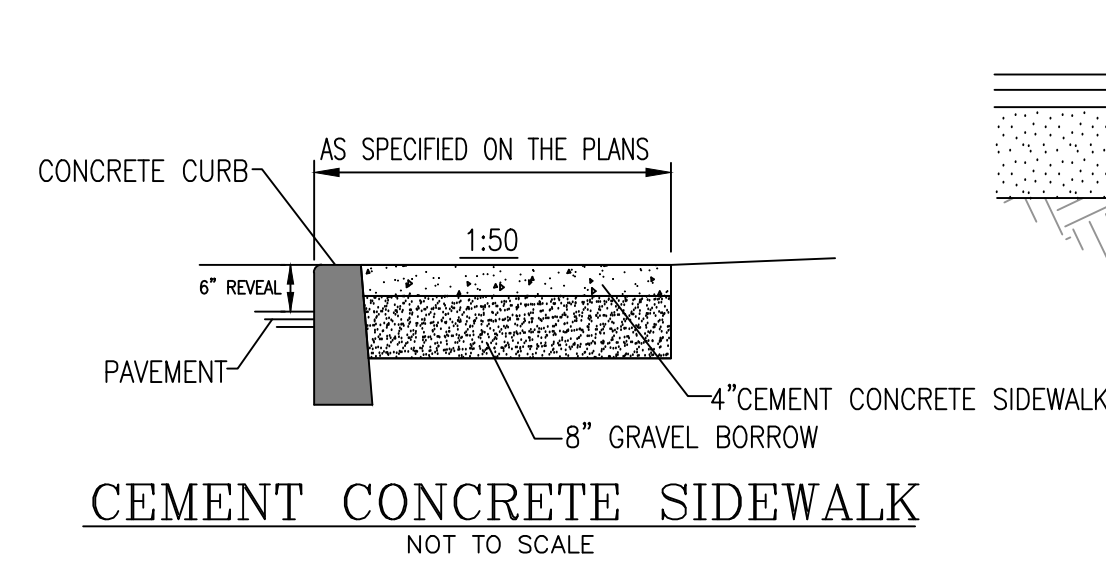
- THE FOLLOWING LIST OF MAINTENANCE TASKS AND FREQUENCIES MUST BE ADHERED TO IN ORDER TO INSURE A SUCCESSFUL LONG TERM OPERATION OF THE STORM DRAINAGE SYSTEM.
1. DURING CONSTRUCTION ACTIVITIES ALL EROSION CONTROLS ON THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY FOUR (24) HOURS AFTER AN EVENT WHICH GENERATES AT LEAST 0.25 INCHES OF RAIN IN A TWENTY FOUR (24) HOUR PERIOD.
  2. SEDIMENTS SHALL BE REMOVED FROM ALL BASINS IMMEDIATELY AFTER SITE STABILIZATION.
  3. ALL TRASH, LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ALL STORM WATER INLET AND OUTLET STRUCTURES A MINIMUM OF TWICE PER YEAR. THESE STRUCTURES SHALL ALSO BE INSPECTED TWICE PER YEAR. INSPECTIONS SHALL BE PERFORMED SEVERAL TIMES WITHIN THE FIRST SIX MONTHS OF OPERATION.
  4. INSPECTIONS OF ALL CATCH BASINS SHALL OCCUR ON AN ANNUAL BASIS TO CHECK FOR DEBRIS REMOVAL (SEDIMENT AND HYDROCARBONS) AND STRUCTURAL INTEGRITY OR DAMAGE. SUCH DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.
  5. REPAIRS OR REPLACEMENT OF INLET/OUTLET STRUCTURES OR ANY ELEMENT OF THE FACILITY SHALL BE DONE WITHIN THIRTY (30) DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT SHALL BE DONE IMMEDIATELY TO AVERT FAILURE OR DANGER TO NEARBY RESIDENTS.
  6. MAKE REPAIRS IMMEDIATELY USING APPROPRIATE STONE SIZES. DO NOT PLACE STONES ABOVE FINISHED GRADE.
  7. ALL REMOVED SEDIMENTS AND DEBRIS SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
  8. ALL OUTLET STRUCTURES AND OUTFLOW CHANNELS WILL BE INSPECTED ANNUALLY. INSPECTIONS WILL BE ACCOMPLISHED SEVERAL TIMES DURING THE FIRST SIX MONTHS OF OPERATION, ESPECIALLY AFTER RAINFALL EVENTS TO CHECK FOR CLOGGING OR, CONVERSELY, TOO RAPID OF A RELEASE.
  9. REPAIRS OR REPLACEMENT OF INLET/OUTLET STRUCTURES, RIP-RAP CHANNELS, FENCES, OR OTHER ELEMENTS OF THE FACILITY WILL BE DONE WITHIN 30 DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT MUST BE DONE IMMEDIATELY TO AVERT FAILURE OR DANGER TO NEARBY RESIDENTS.
  10. ALL SEDIMENT GENERATED DURING CONSTRUCTION AND AS A RESULT OF MAINTENANCE OF THE DRAINAGE SYSTEM MUST BE DISPOSED OF PROPERLY. SEDIMENT SHALL NOT BE DISPOSED OF IN OR NEAR STATE OR FEDERAL REGULATED WATERS.
  11. ADDITIONAL BMP INSPECTION/MAINTENANCE MEASURES OUTLINED WITHIN THE PROJECT STORMWATER POLLUTION PREVENTION PLAN SHALL BE ADHERED TO.

**DRAINAGE AND UTILITY NOTES:**

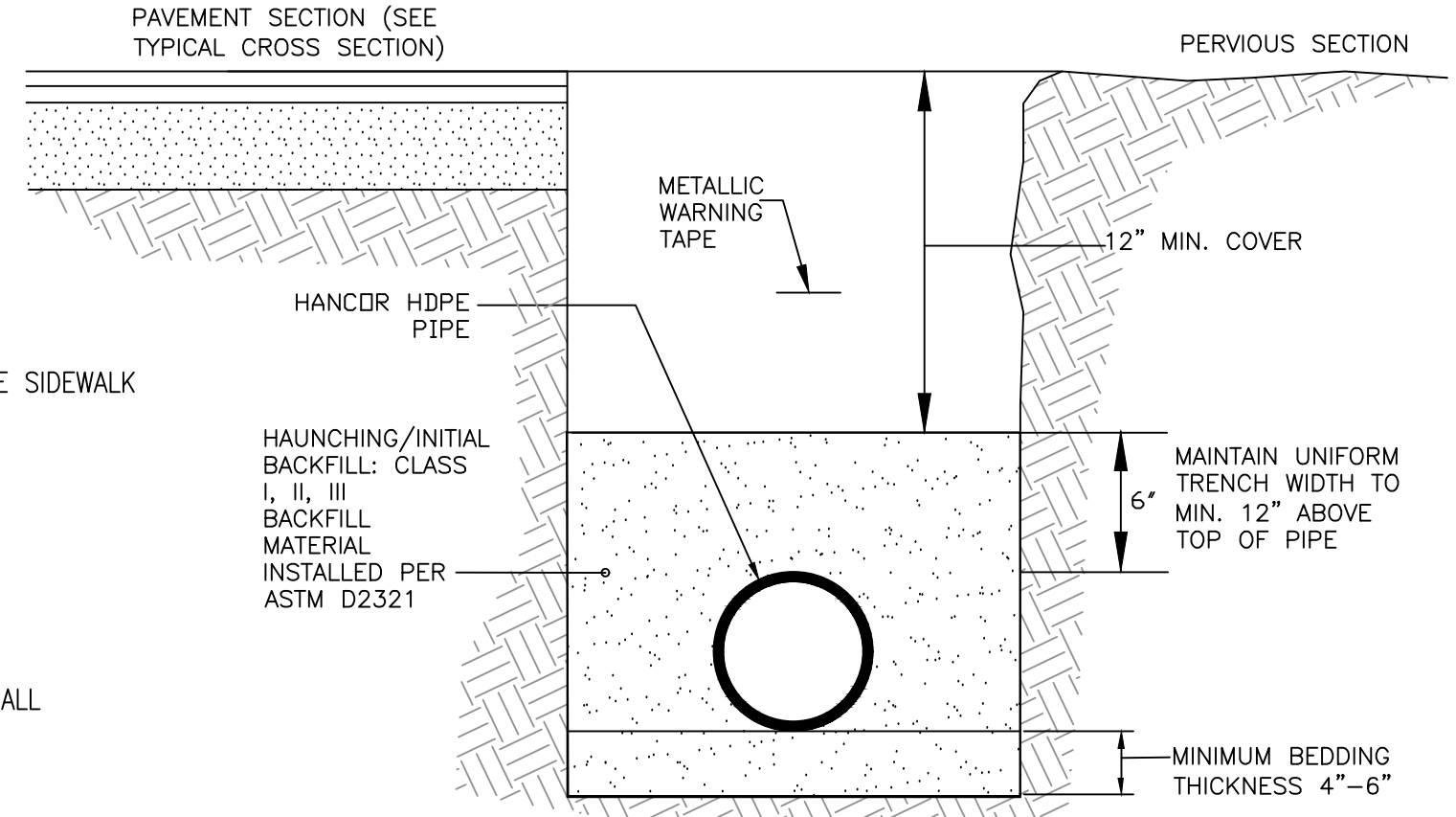
1. UTILITY LOCATION VERIFICATION IS TO INCLUDE TEST HOLES AS NEEDED.
2. WATER MAINS AND APPURTENANCES, INCLUDING SERVICE CONNECTIONS SHALL BE INSTALLED IN CONFORMITY WITH THE SPECIFICATIONS OF THE ONSET WATER DEPARTMENT AND IN ACCORDANCE WITH THE TOWN'S MASTER OR STUDY WATER PLAN.
3. THE CONTRACTOR IS REQUIRED TO SCHEDULE AND COORDINATE WATER SERVICE INSTALLATIONS, SHUT DOWNS AND DISRUPTIONS WHICH AFFECT THE SITE AND SITE ADJACENT USERS WITH THE LOCAL WATER AUTHORITY AND THE LOCAL FIRE DEPARTMENT.
4. UNDERGROUND UTILITIES, ELECTRIC, TELEPHONE, FIRE ALARM CABLE, TELEVISION AND GAS SERVICES SHALL BE INSTALLED PER THE REQUIREMENTS OF THE APPLICABLE SITE UTILITY PROVIDER
5. METALLIC WARNING TAPE SHALL BE INSTALLED 12" ABOVE ALL STORM DRAIN AND OTHER UTILITIES.
6. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES AND ABUTTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.



- FRAME FOR MASSACHUSETTS CASCADE GRATE**  
NOT TO SCALE
- NOTES:
1. THE MASSACHUSETTS STANDARD FRAME IS TO BE USED, DETAILS AND DIMENSIONS NOT SHOWN ABOVE ARE TO BE THE SAME AS THOSE SHOWN ON CONSTRUCTION STANDARD 201.6.0.
  2. A (3)THREE FLANGE FRAME IS TO BE USED WHEN A CURB INLET IS REQUIRED.
  3. GRATE DETAILS ARE SHOWN ON CONSTRUCTION STANDARD 201.7.0.
  4. THE GRATE AS PLACED ABOVE IS FOR WATER COMING FROM THE RIGHT. TURN THE GRATE 180° FOR A WATER FLOW FROM THE LEFT. SEE NOTE No. 2 ON CONSTRUCTION STANDARD 201.7.0. (TO BE USED AT ALL CATCH BASINS)
  5. THE GRATE IS ONLY SHOWN SCHEMATICALLY.



- NOTES:
1. CONCRETE SCORING PATTERN TO BE APPROVED BY OWNER.
  2. UNLESS SPECIFIED ON PROJECT DRAWINGS, CONTROL JOINTS SHALL OCCUR AT THE SAME DIMENSION AS THE SIDEWALK WIDTH.
  3. UNLESS SPECIFIED OTHERWISE, ISOLATION JOINTS SHALL OCCUR AT THE FOLLOWING LOCATIONS:
    - BETWEEN CURB AND WALK
    - INTERSECTION OF WALKS
    - BETWEEN WALK AND BUILDING WALLS
    - BETWEEN WALK AND ALL STRUCTURES, I.E., WALLS AND PLANTERS
    - ON CONTINUOUS WALKS, ISOLATION JOINTS SHALL BE AT A MAXIMUM OF (30') THIRTY FEET APART.
  4. CONCRETE WALKS AND DRIVEWAYS SHALL BE ACCORDANCE WITH SECTION MASSDOT SPECIFICATIONS.
  5. CONCRETE SHALL BE 5% AIR ENTRAINED, 4000 PSI WITH 3/4" STONE.
  6. SAME REQUIREMENT WITHOUT CURB

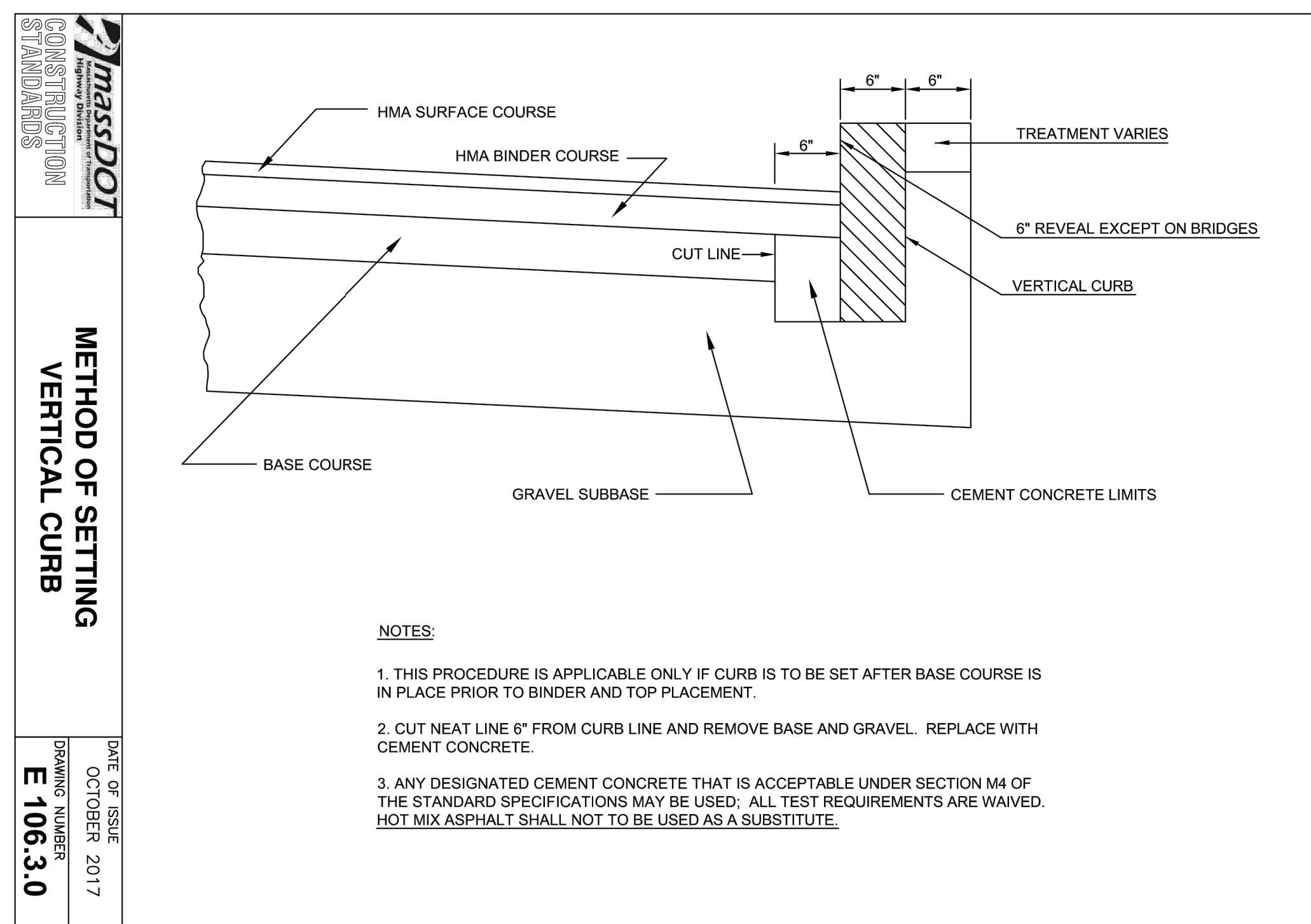
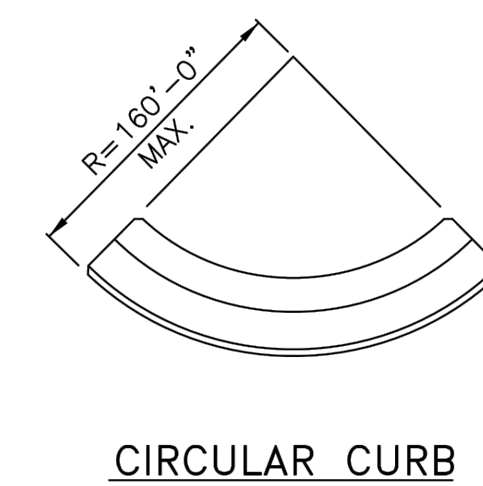
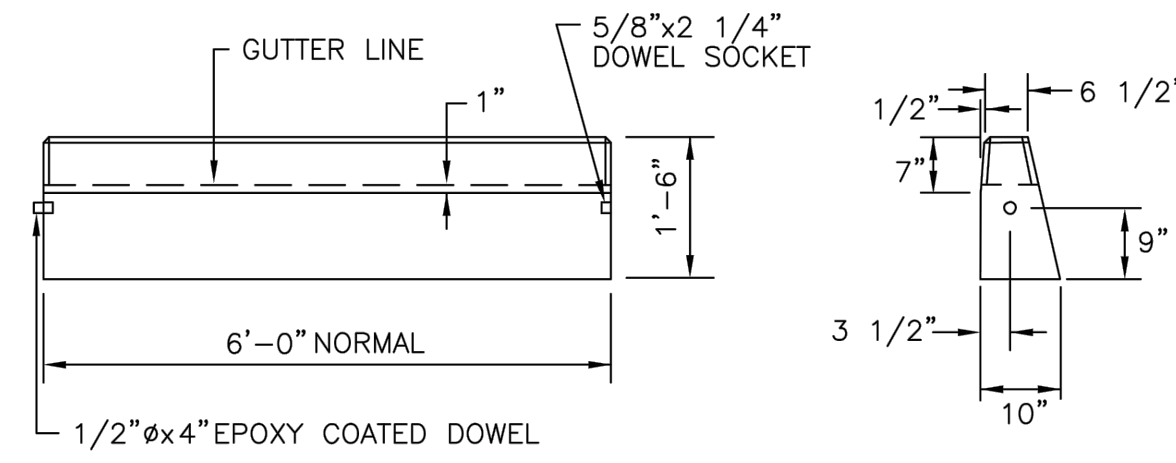
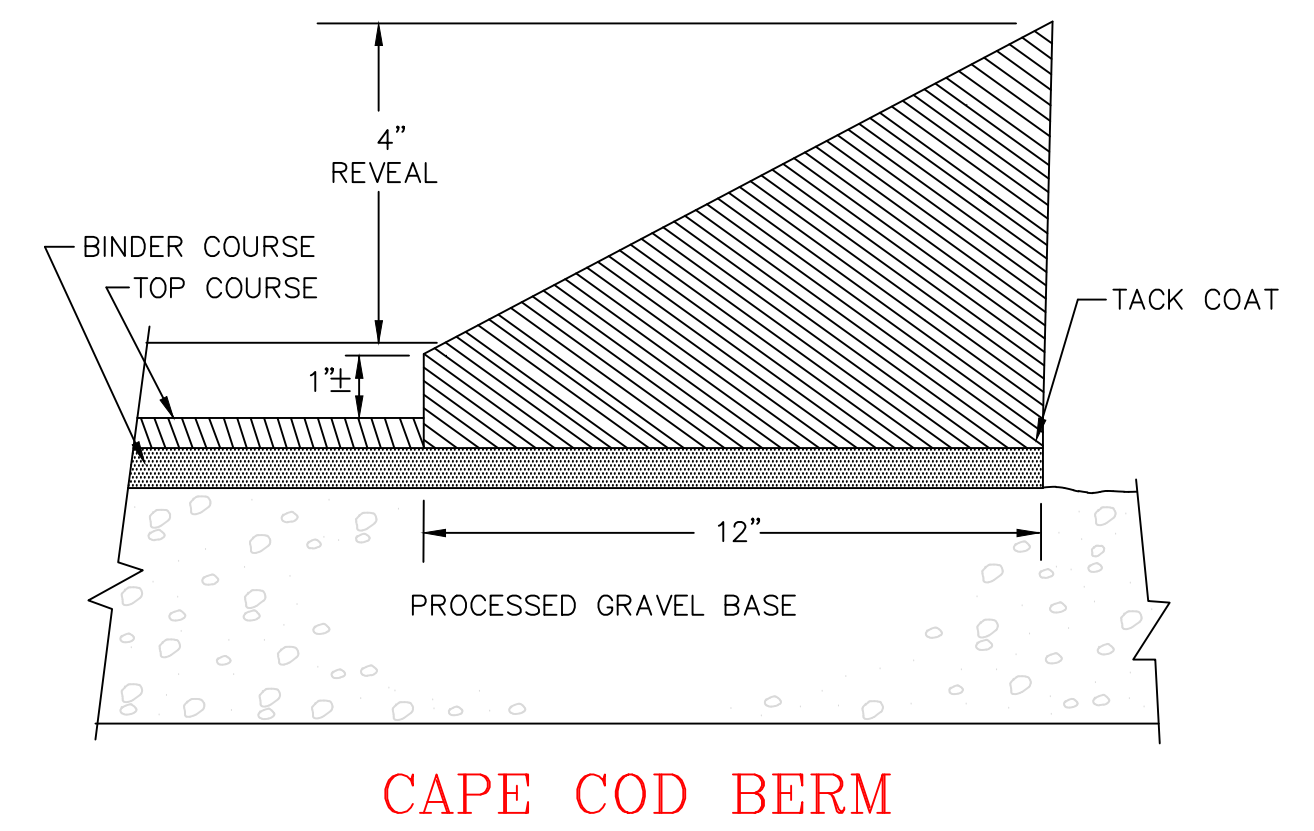
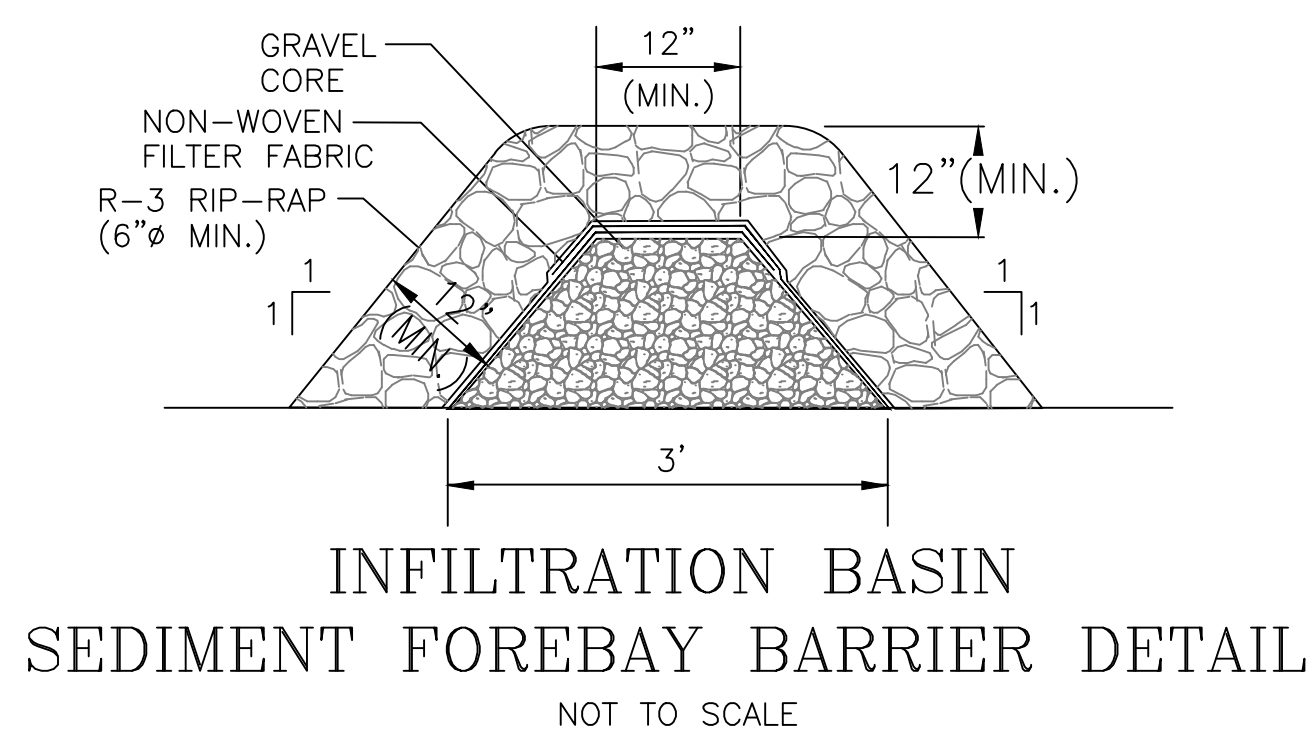
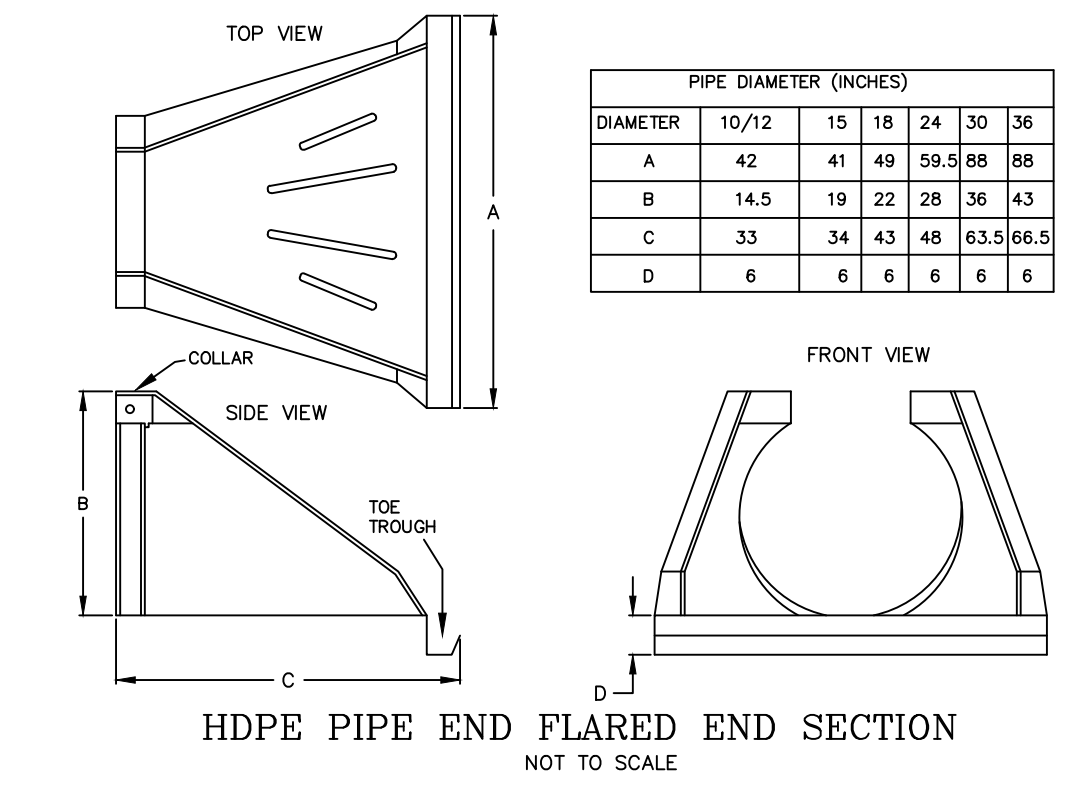
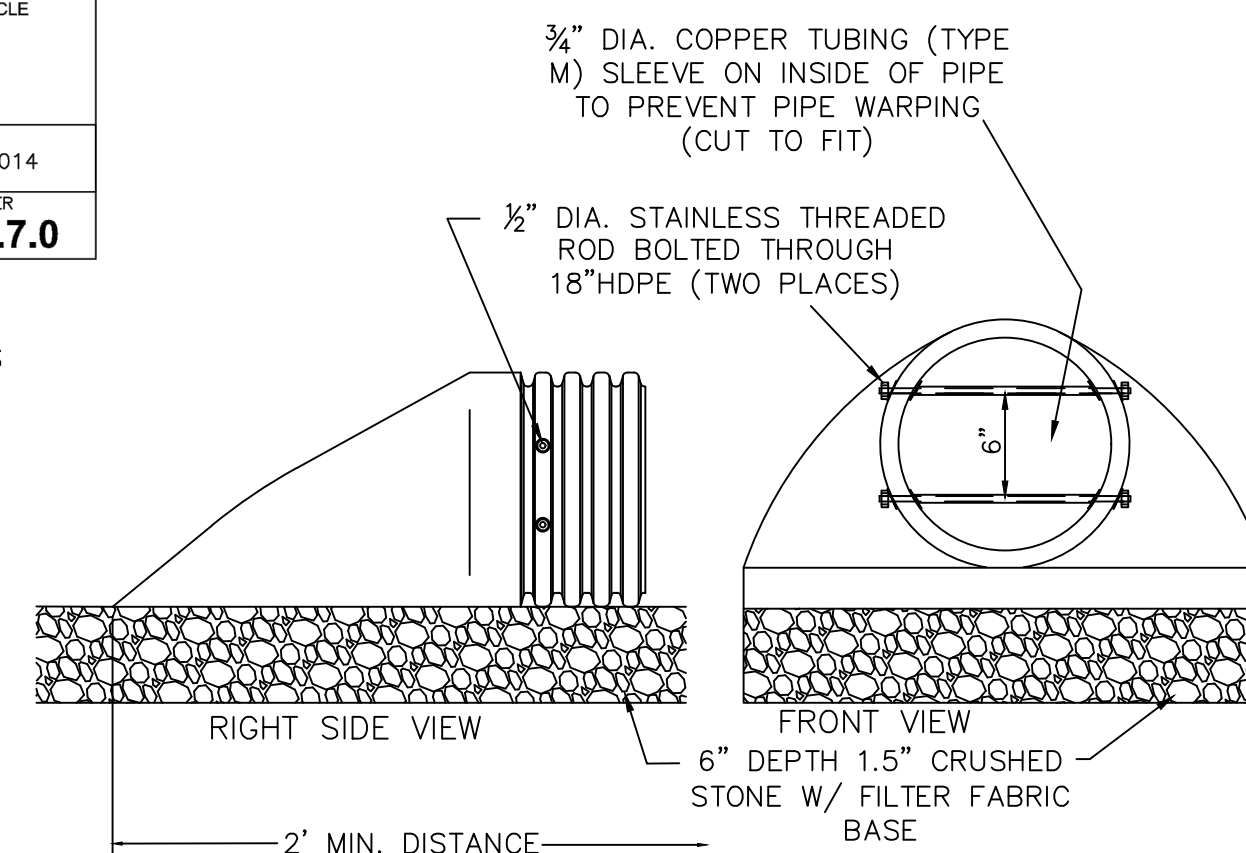


REFERENCE ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS."

**RECOMMENDED MINIMUM TRENCH WIDTH**

PIPE DIAMETER IN. (MM)	TRENCH WIDTH IN. (M)	PIPE DIAMETER IN. (MM)	TRENCH WIDTH IN. (M)
4 - 8 (100-200)	*	30 (750)	60 (1.5)
10 (250)	24 (0.6)	36 (900)	65 (1.7)
12 (300)	28 (0.7)	42 (1050)	84 (2.1)
15 (375)	35 (0.9)	48 (1200)	91 (2.3)
18 (450)	43 (1.1)	54 (1350)	97 (2.5)
24 (600)	56 (1.4)	60 (1500)	103 (2.6)

\* USUALLY BASED ON SMALLEST BUCKET SIZE AVAILABLE



- NOTES:
1. THIS PROCEDURE IS APPLICABLE ONLY IF CURB IS TO BE SET AFTER BASE COURSE IS IN PLACE PRIOR TO BINDER AND TOP PLACEMENT.
  2. CUT NEAT LINE 6" FROM CURB LINE AND REMOVE BASE AND GRAVEL. REPLACE WITH CEMENT CONCRETE.
  3. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED; ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT TO BE USED AS A SUBSTITUTE.

**MAINTENANCE RESPONSIBILITY**

1. THE APPLICANT IS RESPONSIBLE FOR THE MAINTENANCE OF ALL DRAINAGE STRUCTURES.

**DETAIL SHEET - 3**



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in  
WAREHAM, MASSACHUSETTS

SCALE: AS NOTED | SHEET NO: 13 OF 17  
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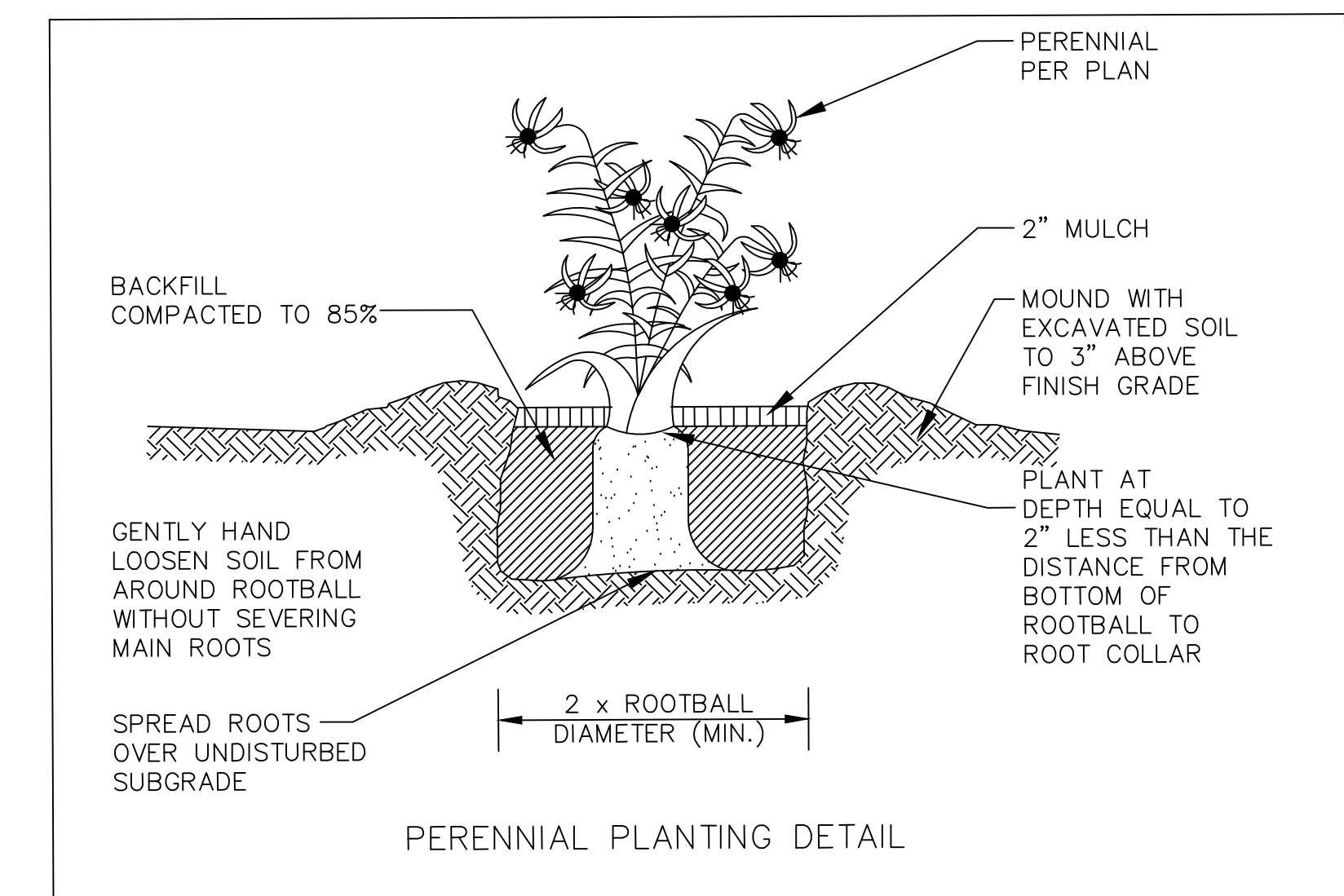
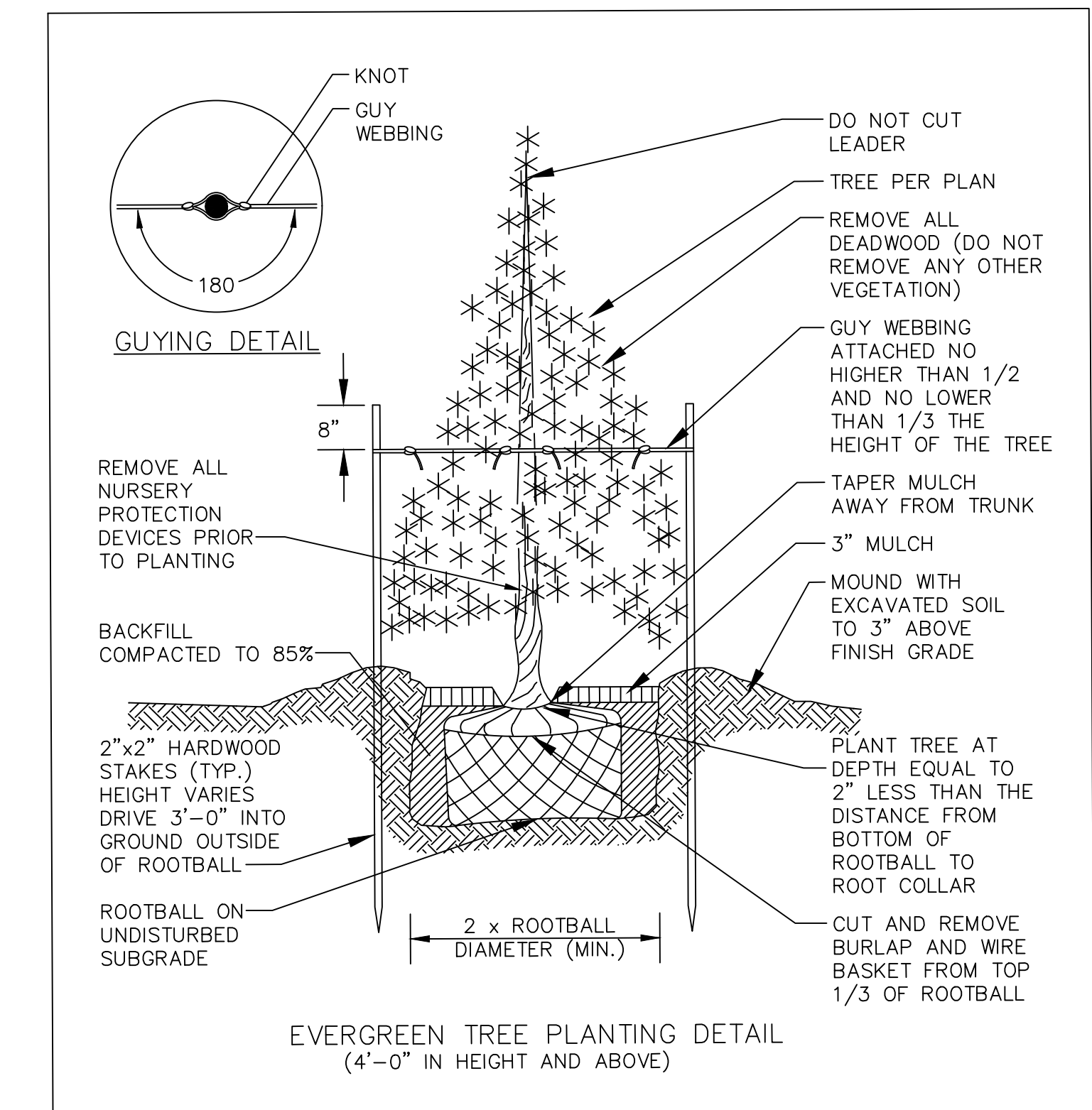
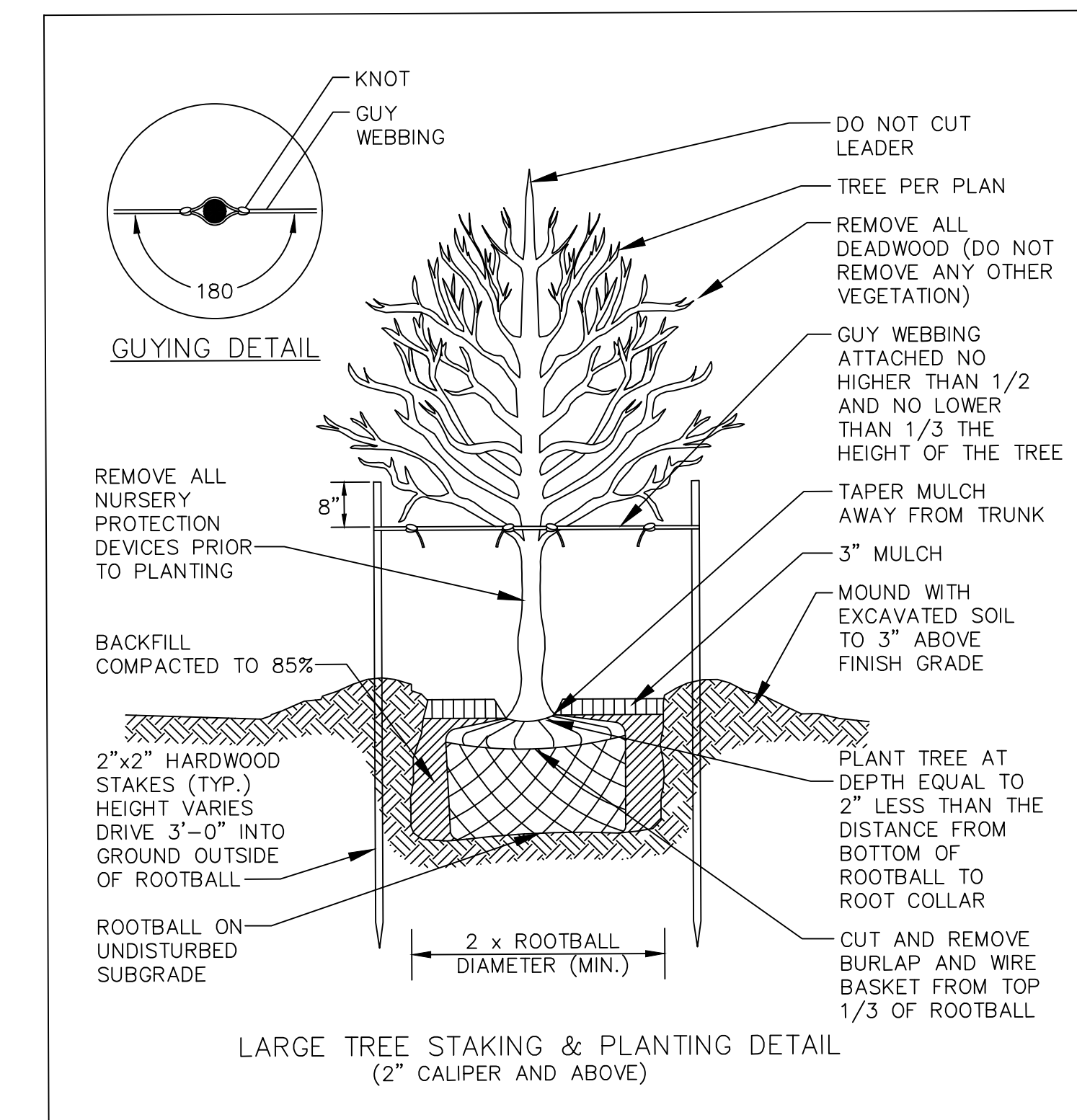
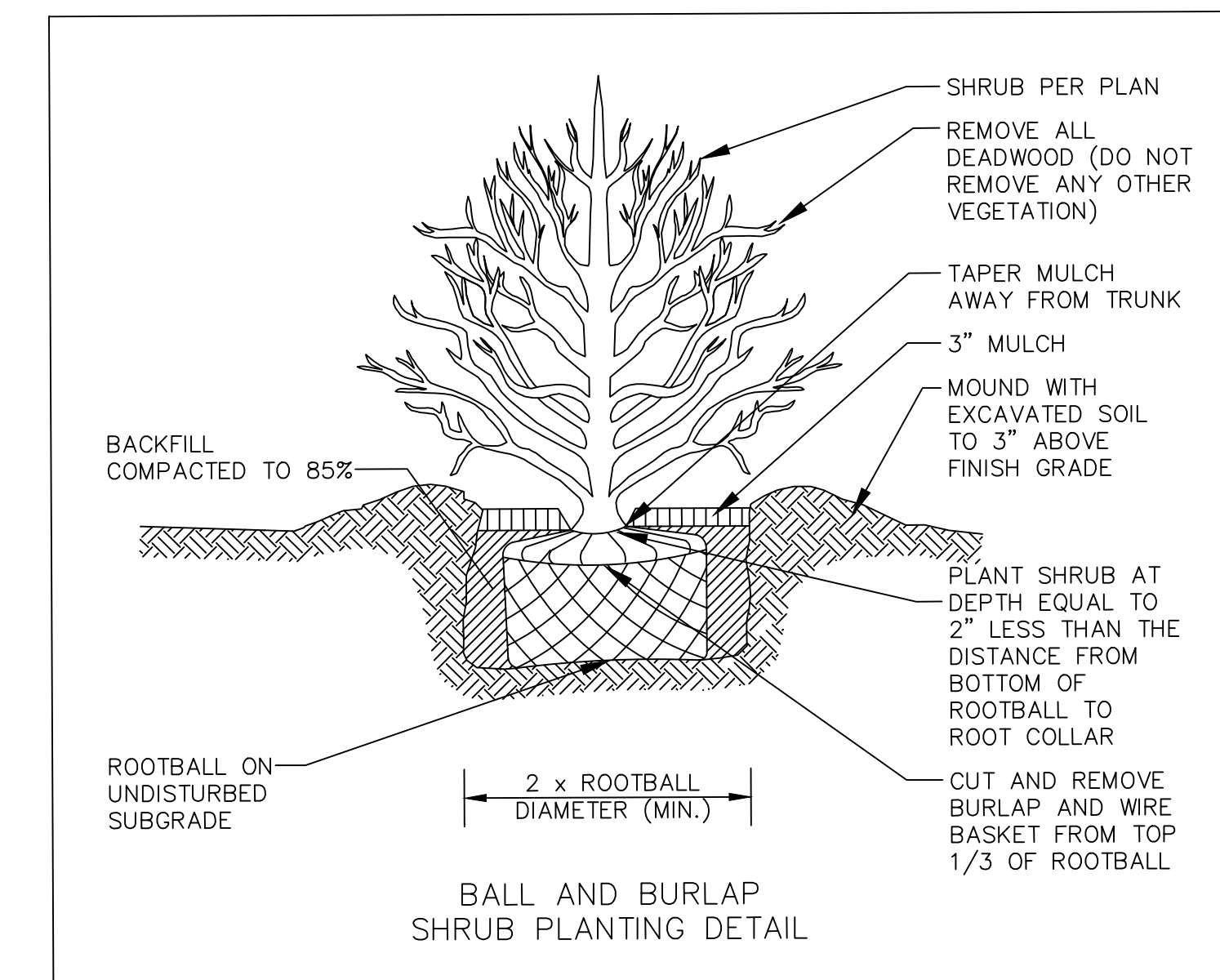
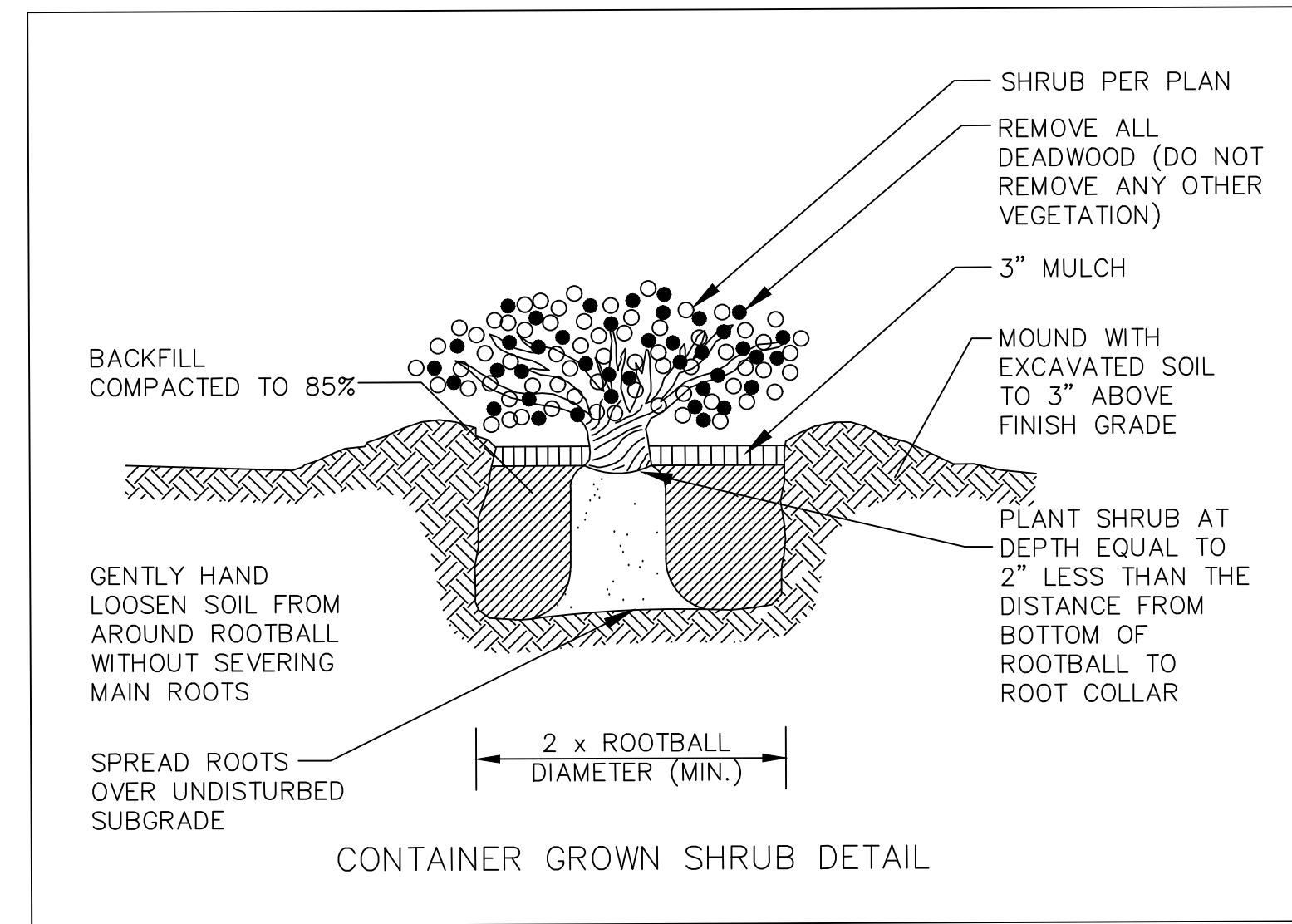
MASTER PLANT SCHEDULE

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
Ala	7	Amelanchier laevis	Alleghany shadblow	5-6' clump	B&B	SPECIMEN
AmL	30	Aronia melanocarpa Lowscape	Lowscape black chokeberry	#3	CAN	---
As	30	Asarum splendens	Splendens ginger	#1	CAN	---
Ana	18	Aster novae-angliae	New England aster	#1	CAN	---
Acp	45	Astilbe chinensis pumila	False spiraea	#1	CAN	---
Azm	40	Azalea ReBloom Marie Hoffman	Marie Hoffman azalea	#2	CAN	---
BnH	14	Betula nigra Cully	Heritage river birch	7-8' clump	B&B	SPECIMEN
BuJ	6	Betula utilis Jacquemontii	Himalayan birch	8-10'	B&B	SPECIMEN
Bsf	28	Buxus sempervirens fastigiata	Upright common boxwood	2.5-3'	B&B	---
CKF	9	Calamagrostis Karl Foerster	Karl Foerster feather reed grass	#2	CAN	---
Cv	16	Coreopsis verticillata Zagreb	Zagreb tickseed	#1	CAN	---
Cav	12	Cornus alba variegata	Variegated redtwig dogwood	#5	CAN	---
CGP	30	Cryptomeria japonica Golden Promise	Golden Promise cryptomeria	#3	CAN	---
DF	36	Dianthus Firewitch	Firewitch pink	#1	CAN	---
EBK	12	Echinacea Butterfly Kisses	Butterfly Kisses coneflower	#1	CAN	---
Go	24	Galium odoratum	Sweet woodruff	#1	CAN	---
He	52	Hemerocallis Stella D'Oro	Stella D'Oro daylily	#1	CAN	---
HES	24	Hydrangea macro. Endless Summer	Endless Summer hydrangea	#2	CAN	---
Hq	12	Hydrangea quercifolia PeeWee	PeeWee oakleaf hydrangea	#2	CAN	---
IgS	65	Ilex glabra Shamrock	Shamrock inkberry	2.5-3'	B&B	---
Iv	11	Ilex verticillata	Winterberry	#3	CAN	---
ICW	12	Ilex x. meserveae Castle Wall	Castle Wall holly	#3	CAN	---
ILH	12	Itea virginica Little Henry	Little Henry sweetspire	#3	CAN	---
Jv	46	Juniperus virginiana Emerald Sentinel	Emerald Sentinel red cedar	6-7'	B&B	---
Kl	6	Kalmia latifolia Minuet	Minuet mountain laurel	#3	CAN	---
LV	3	Laburnum x. watereri Vossi	Vossi hybrid goldenchain tree	#25	CAN	SPECIMEN
LS	9	Lavandula Sensational	Sensational lavender	#1	CAN	---
LSS	17	Liquidambar styraciflua Slender Silhouette	Slender Silhouette sweetgum	2-2.5' cal.	B&B	SPECIMEN
MsA	5	Magnolia x. soulangeana Alexandrina	Alexandrina magnolia	7-8' clump	B&B	SPECIMEN
Mc	9	Muhlenbergia capillaris	Pink hair grass	#1	CAN	---
Mp	20	Myrica pensylvanica	Bayberry	2.5-3'	B&B	---
--	500	Narcissus	Daffodils	---	bulb	---
Ns	4	Nyssa sylvatica	Tupelo	7-8'	B&B	SPECIMEN
PCL	16	Paeonia ltoh Cora Louise	Cora Louise ltoh peony	#2	CAN	---
PMF	12	Pieris Mountain Fire	Mountain Fire andromeda	#3	CAN	---
Pmp	16	Pinus mugo pumilio	Dwarf mugo pine	#3	CAN	---
Pa	53	Polystichum acrostichoides	Christmas fern	#1	CAN	---
Pf	24	Potentilla fruticosa Goldfinger	Goldfinger potentilla	#2	CAN	---
Qr	10	Quercus rubra	Red oak	2.5-3" cal.	B&B	5' STD.
RPW	9	Rhododendron Percy Wiseman	Percy Wiseman rhododendron	#3	CAN	---
RKS	9	Rosa Knockout Sunny	Sunny Knockout rose	#3	CAN	---
ShS	30	Sarcococca humilis Sarsid1	Fragrant Valley sweet box	#3	CAN	---
SIS	13	Syringa reticulata Ivory Silk	Ivory Silk tree lilac	2.5-3" cal.	B&B	5' STD.
Sj	7	Styphnolobium japonicum Regent	Regent scholar tree	2.5-3" cal.	B&B	5' STD.
Tp	65	Thuja plicata Green Giant	Green Giant arbor-vitae	7-8'	B&B	---
Tc	15	Tiarella cordifolia	Foamflower	#1	CAN	---
Vt	34	Viburnum trilobum	Highbush cranberry	#7	CAN	---
WfV	8	Weigela florida Variegatum	Variegated weigela	#3	CAN	---
Zs	9	Zelkova serrata Green Vase	Green Vase zelkova	2.5-3" cal.	B&B	5' STD.

\*\*\*Narcissus to be planted randomly in all plant beds.

LANDSCAPE NOTES:

- 1) ALL PLANT MATERIAL TO CONFORM TO AAN/ANSI STANDARDS.
- 2) ALL PLANT MATERIAL TO RECEIVE THREE INCHES OF SHREDDED PINE BARK MULCH, EXCEPT FOR THOSE PLANT MATERIALS WITHIN THE AREAS TO BE GRAVEL MULCHED.
- 3) GRAVEL MULCH AREAS TO RECEIVE THREE INCHES OF 3/8" INCH CRUSHED STONE, TAN IN COLOR. COLOR SAMPLE TO BE APPROVED BY LANDSCAPE ARCHITECT.
- 4) ALL PLANT MATERIAL TO BE GUARANTEED TO SURVIVE AT LEAST ONE GROWING SEASON, OR THEY SHALL BE REPLACED AT THE LANDSCAPE CONTRACTOR'S EXPENSE.
- 5) ALL PLANT MATERIAL SUBJECT TO VERIFICATION AS TO LOCATION AND SPECIES.
- 6) THERE WILL BE NO PLANT MATERIAL SUBSTITUTIONS WITHOUT THE WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT.
- 7) DISTURBED SOILS WITHIN THE PROJECT LIMITS ARE TO BE LOAMED AND SEEDED WITH APPLICABLE MIXTURE.
- 8) PROPOSED LANDSCAPE STONES/BOULDERS ARE TO BE NATURALLY-COLORED, BURIED AT LEAST ONE-THIRD OF THEIR OVERALL HEIGHT AND APPROVED IN PLACE BY THE LANDSCAPE ARCHITECT.



LANDSCAPE DETAILS

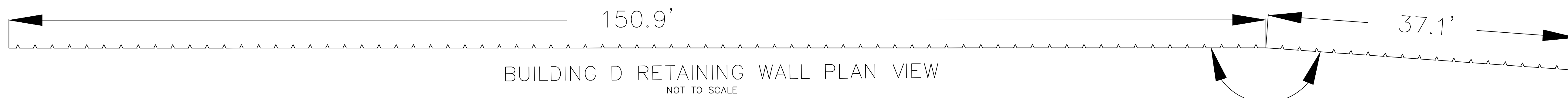


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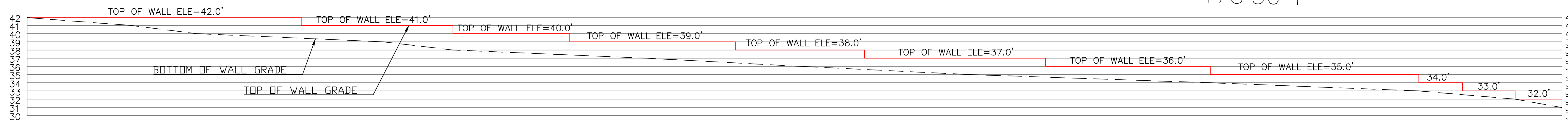
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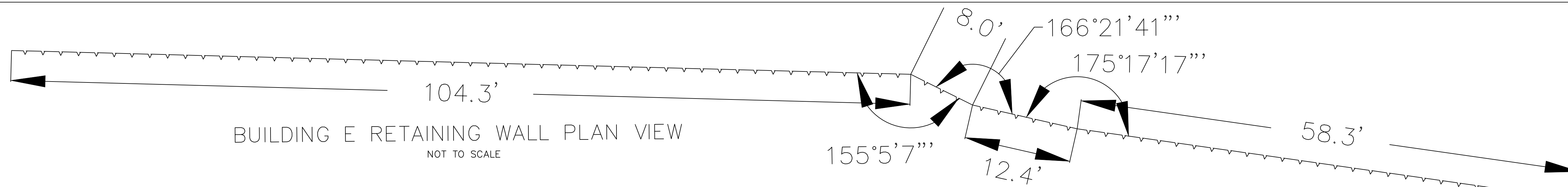
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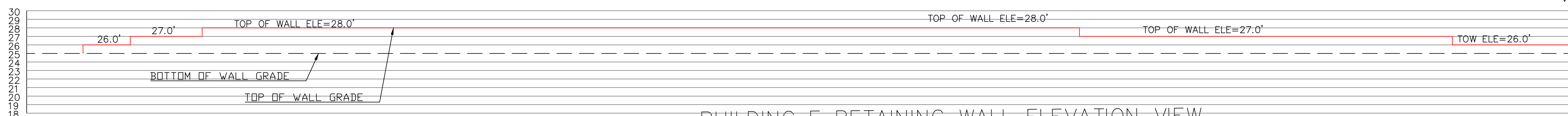
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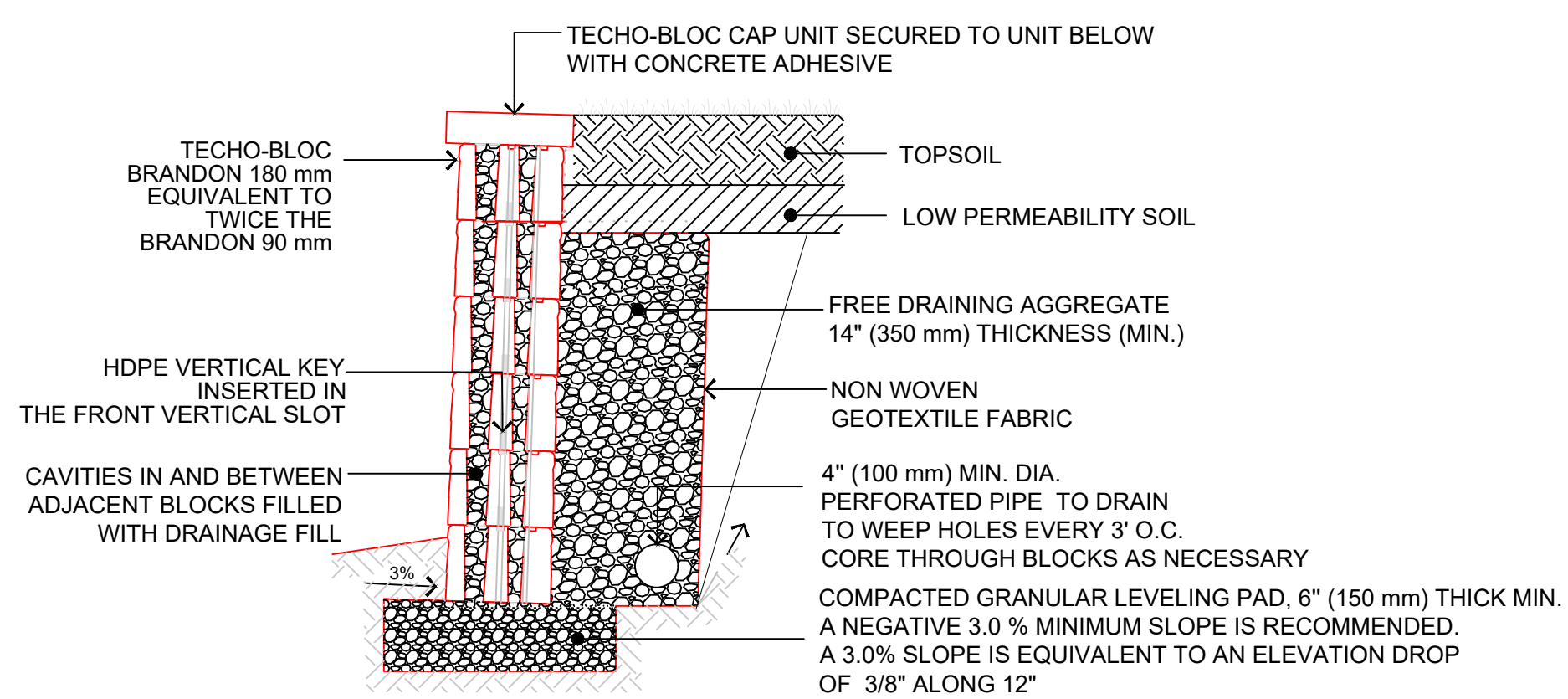
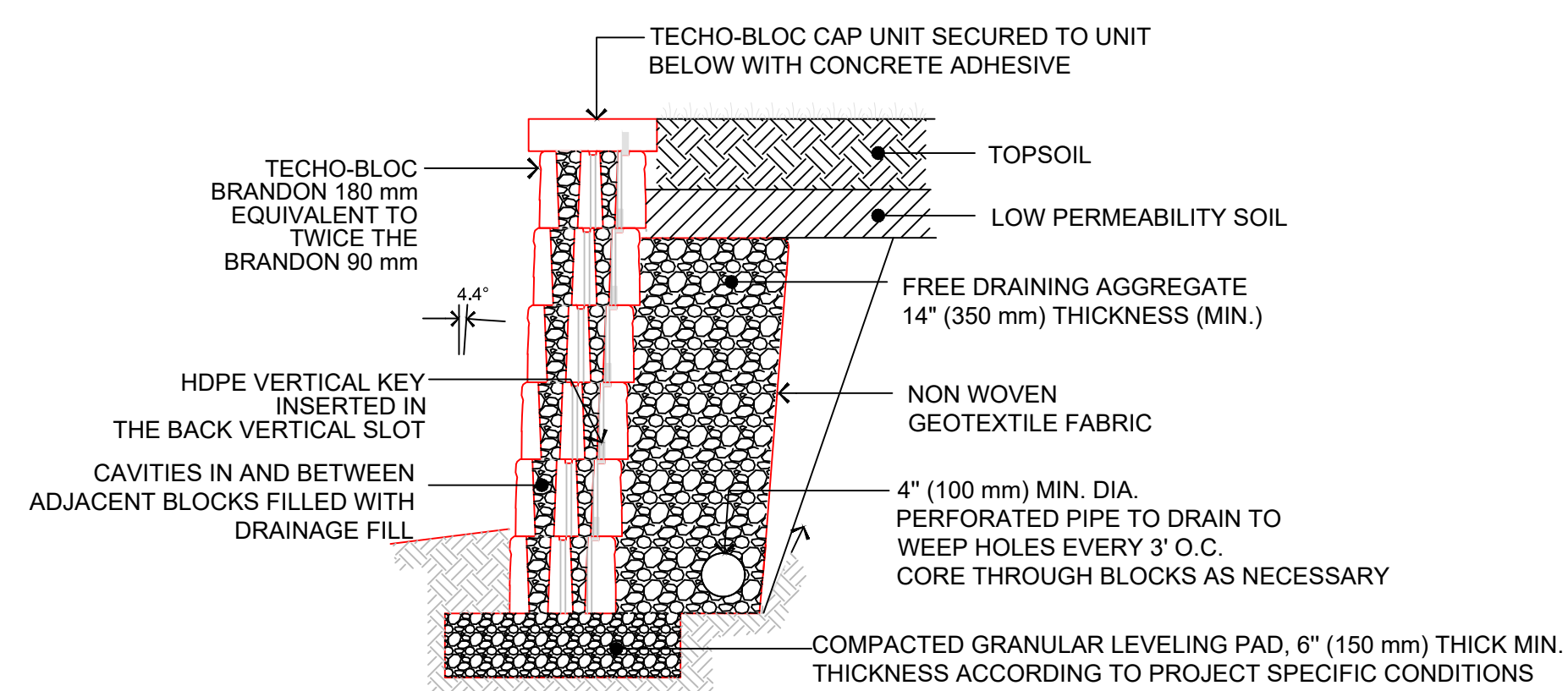
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BUILDING E RETAINING WALL PLAN VIEW  
NOT TO SCALE



BUILDING E RETAINING WALL ELEVATION VIEW  
NOT TO SCALE



**TECHO—BLOC**

**BRANDON BLOCK  
TYPICAL GRAVITY WALL  
CROSS SECTION**

TECHO-BLOC RETAINING WALL SYSTEMS  
TYPICAL WALL DETAILS

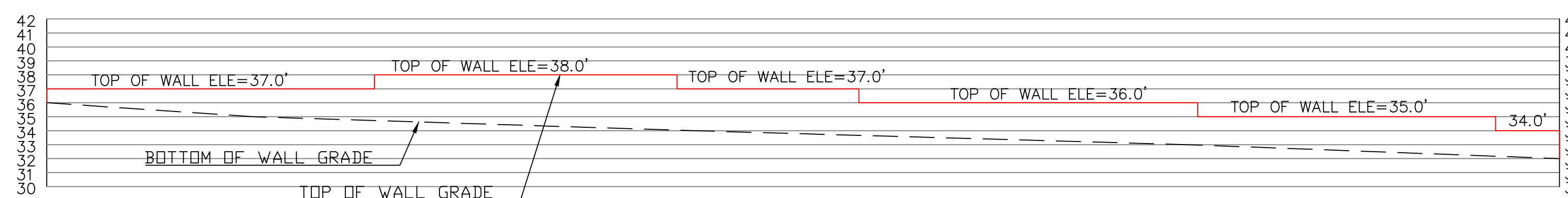
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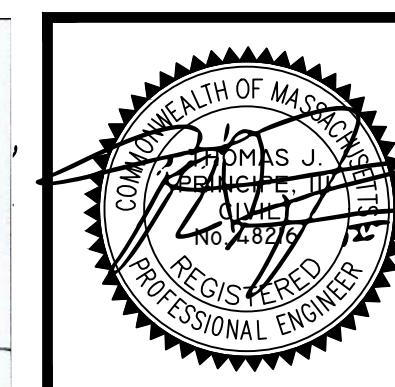
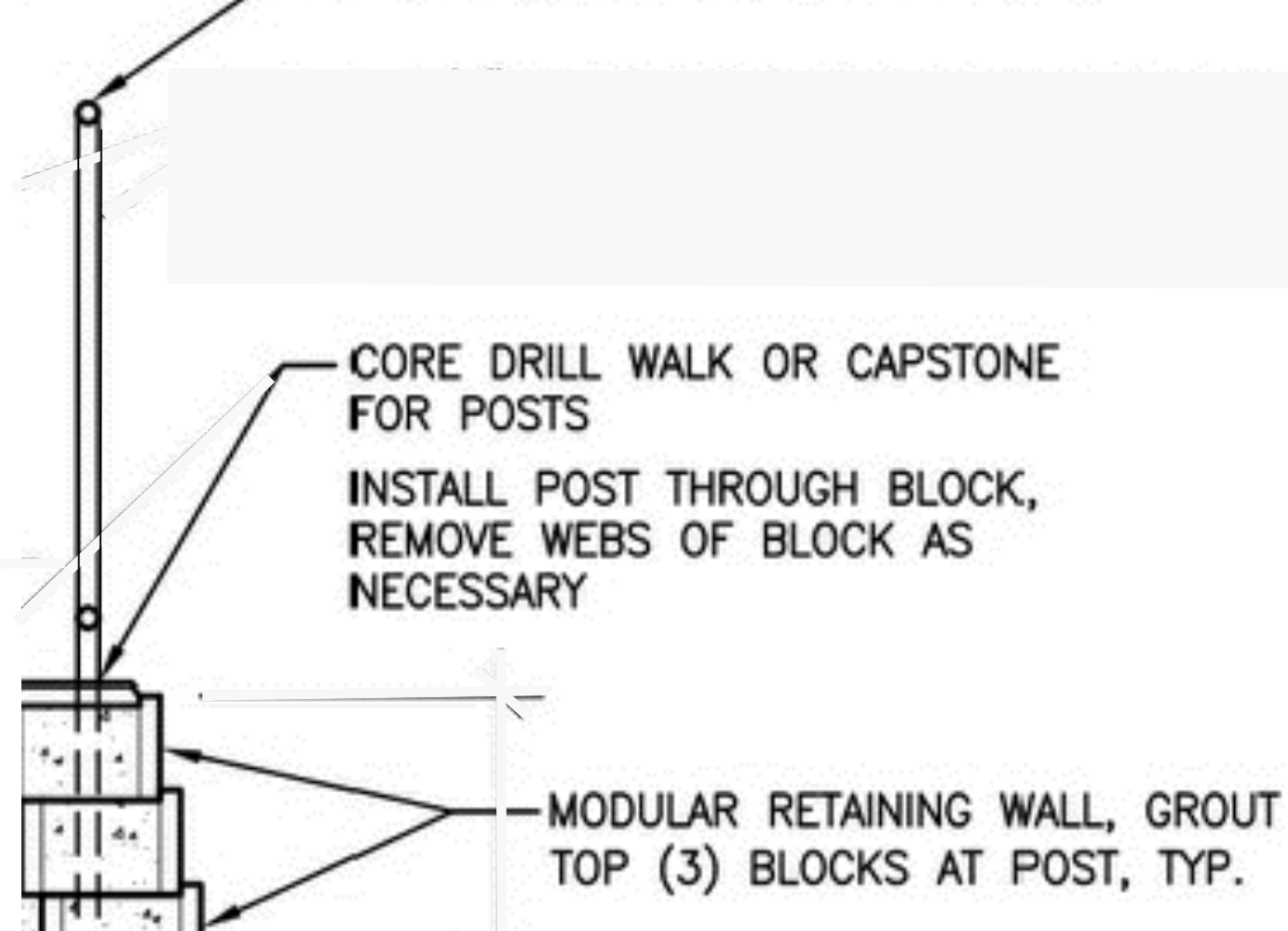


BUILDING G RETAINING WALL PLAN VIEW



BUILDING G RETAINING WALL ELEVATION VIEW  
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**RAILING LOCATION @ EMBANKMENTS**



**LANDSCAPE DETAILS**

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