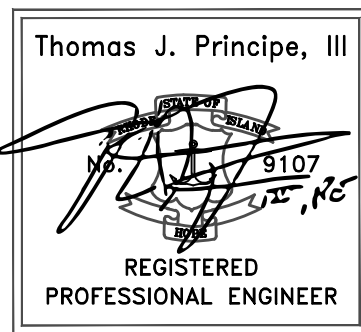


C:\Users\admin\Principe Engineering Dropbox\ERSC PLANS\2024\ERSC PLANS\2024-2\_670 Metacom Avenue Bristol\_Dave Ramos\Drawings\ERSC-2024-2\_670 METACOM AVENUE\_BRISTOL\_PRELIMINARY.dwg, DWG To PDF.pc3

PRELIMINARY SUBMISSION  
FOR  
668 & 670 METACOM AVENUE  
ASSESSORS MAP 128 PARCELS 15 & 16  
IN  
BRISTOL, RHODE ISLAND



APPLICANT:  
DAVID J. RAMOS  
12 RUTH AVENUE  
BRISTOL, RI 02809

OWNER (LOT 15):  
DAVID J. RAMOS  
12 RUTH AVENUE  
BRISTOL, RI 02809

OWNER (LOT 16):  
LIONEL J. RAMOS  
9 SCOTT LANE  
BRISTOL, RI 02809

PREPARED BY:  
**PRINCIPE COMPANY, INC.**  
ENGINEERING DIVISION

27 SAKONNET RIDGE DRIVE  
TIVERTON, RHODE ISLAND 02878  
401.816.5385  
INFO@PRINCIPECOMPANY.COM  
WWW.PRINCIPECOMPANY.COM

AUGUST 8, 2025

LIST OF DRAWINGS

- 1) TITLE SHEET
- 2) EXISTING CONDITIONS PLAN (LOTS 15 & 16)
- 3) PROPOSED LAYOUT PLAN (LOT 16)
- 4) DRAINAGE & GRADING PLAN (LOT 16)
- 5) LANDSCAPE PLAN (LOT 16)
- 6) PROPOSED CONDITIONS PLAN (LOT 15)
- 7) RIDOT PAP PLAN
- 8) CONSTRUCTION DETAILS – 1
- 9) CONSTRUCTION DETAILS – 2
- 10) CONSTRUCTION DETAILS – 3

STREET INDEX  
METACOM AVENUE  
(PUBLIC- STATE HIGHWAY)

SOIL REFERENCE:

NRCS WEB SOIL SURVEY:  
PmA – PITTSBURY SILT LOAM (0-3% SLOPES) [27" GWI]  
Sf – STISSING VERY STONY SILT LOAM [9" GWI]  
CaC – CANTON-CHARLTON-ROCK OUTCROP COMPLEX (3-15% SLOPES)  
DATE ACCESSED: 03/25/24

PLAN REFERENCE:

1.) EXISTING CONDITIONS TAKEN FROM CLASS I SURVEY PLAN ENTITLED:  
"EXISTING CONDITIONS PLAN FOR DAVID J. RAMOS & LIONEL J. RAMOS"  
AP 128 LOT 15 & 16 IN BRISTOL, RI  
DATE: 03/27/2024; REVISED JULY 3, 2025  
PREPARED BY: PRINCIPLE COMPANY, INC. – SURVEYING DIVISION  
SIGNED BY: STEPHEN T. LONG, PLS NO. 1930

REQUESTED RELIEF

WAIVERS REQUESTED

A waiver is requested from Land Development Projects Section:  
Sidewalks shall be required to be installed on one side of new streets in subdivisions and in multifamily developments. No sidewalks is proposed in front of Lot 15.

DRAWING ISSUE:

- ☐ CONCEPT  
☐ CUSTOMER APPROVAL  
☒ PERMITTING  
☐ CONSTRUCTION  
☐ AS-BUILT  
☐ OTHER:

ONLY PLANS ISSUED FOR CONSTRUCTION  
SHALL BE USED FOR CONSTRUCTION

**ZONING-GB: LOT 15**

ROUTE 136 (METACOM AVENUE) OVERLAY	
DIMENSIONAL REQUIREMENTS	EXISTING
MIN. LOT AREA: 10,000 SF	64,406 SF
MIN. LOT WIDTH: 100 FT	323.2 FT
MIN. FRONT YARD: 25 FT	N/A
MIN. REAR YARD: 30 FT	N/A
MIN. SIDE YARD: 10 FT	N/A
MAX. BLDG. LOT COV.: 40%	N/A
MAX. TOTAL LOT COV.: 70%	N/A
MIN. DIST. FROM RES. ZONE: 25 FT	N/A
MAX. FLOOR AREA RATIO: 0.5	N/A

**ZONING-GB: LOT 16**

ROUTE 136 (METACOM AVENUE) OVERLAY	
DIMENSIONAL REQUIREMENTS	EXISTING
MIN. LOT AREA: 10,000 SF	31,403 SF
MIN. LOT WIDTH: 100 FT	157.0 FT
MIN. FRONT YARD: 25 FT	N/A
MIN. REAR YARD: 30 FT	N/A
MIN. SIDE YARD: 10 FT	N/A
MAX. BLDG. LOT COV.: 40%	N/A
MAX. TOTAL LOT COV.: 70%	N/A
MIN. DIST. FROM RES. ZONE: 25 FT	N/A
MAX. FLOOR AREA RATIO: 0.5	N/A

GENERAL NOTES:

1. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
2. THIS SITE LIES IN ZONE X AS SHOWN ON THE FIRM MAP FOR THE CITY OF BRISTOL, RI COMMUNITY PANEL NO.44001C001H, MAP REVISED JULY 7, 2014.
3. THERE ARE NO KNOWN EASEMENTS OR RIGHTS OF WAY WITHIN OR ADJACENT TO THIS PARCEL UNLESS OTHERWISE SHOWN.
4. THE CONTOURS SHOWN HEREIN ARE BASED UPON THE NAVD83 DATUM.
5. THERE ARE UNDERGROUND UTILITIES LOCATED WITHIN METACOM AVENUE ALONG THIS PARCELS FRONTAGE.

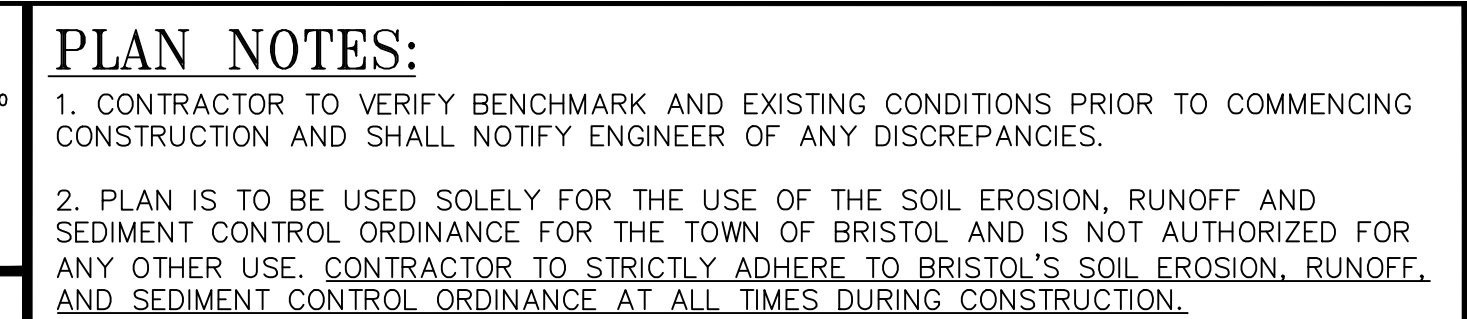


**SITE LOCUS**  
NOT TO SCALE

LEGEND

	EXISTING	PROPOSED
PERIMETER LINE	—————	—————
ABUTTER LINE	—————	—————
EDGE OF PAVEMENT	—————	—————
FENCE	—X—X—X—	—————
EASEMENT	-----	-----
CONTOUR	-----87-----	-----87-----
UTILITY POLE	⊕	⊕
TEST HOLE	⊕	⊕
SAWCUT	—————	—————
BUILDING SETBACK	—————	—————
OVERHEAD WIRE	———OHV———	———OHV———
CATCH BASIN	—————	—————
DRAIN MANHOLE	—————	—————
DRAIN LINE	———D———D———	———D———D———
WATER LINE	———W———W———	———W———W———
WATER GATE VALVE	⊕	⊕
WELL	⊕	⊕
SEWER LINE	———S———S———	———S———S———
WETLAND FLAG	⊕	⊕
SIGN	⊕	⊕
DOWNSPOUT	⊕	⊕
LIGHT POST	⊕	⊕
STONEWALL	⊕	⊕
COMPOST FILTER SOCK	⊕	⊕
RIDOT STD 9.9.0	⊕	⊕
CONSTRUCTION ACCESS	⊕	⊕





ZONING-GB: LOT 15	
ROUTE 136 (METACOM AVENUE) OVERLAY	
<u>DIMENSIONAL REQUIREMENTS</u>	<u>EXISTING</u>
MIN. LOT AREA: 10,000 SF	64,406 SF
MIN. LOT WIDTH: 100 FT	323.2 FT
MIN. FRONT YARD: 25 FT	N/A
MIN. REAR YARD: 30 FT	N/A
MIN. SIDE YARD: 10 FT	N/A
MAX. BLDG. LOT COV.: 40%	N/A
MAX. TOTAL LOT COV.: 70%	N/A
MIN. DIST. FROM RES. ZONE: 25 FT	N/A
MAX. FLOOR AREA RATIO: 0.5	N/A

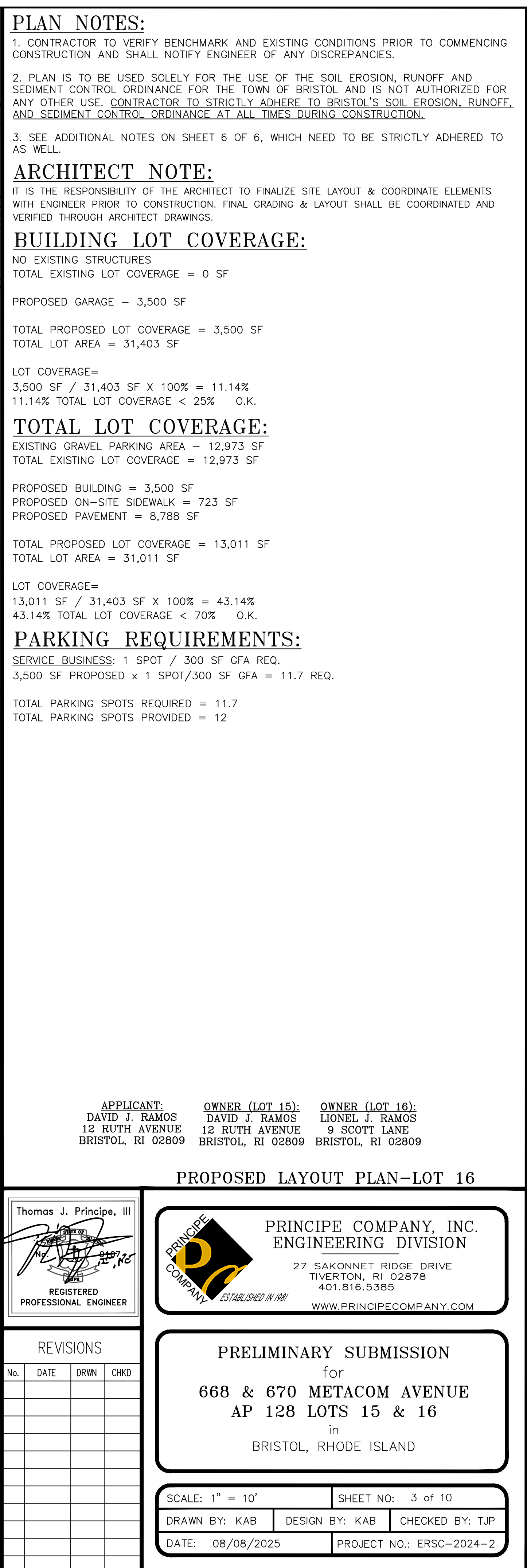
ZONING-GB: LOT 16	
ROUTE 136 (METACOM AVENUE) OVERLAY	
DIMENSIONAL REQUIREMENTS	EXISTING
MIN. LOT AREA: 10,000 SF	31,403 SF
MIN. LOT WIDTH: 100 FT	157.0 FT
MIN. FRONT YARD: 25 FT	N/A
MIN. REAR YARD: 30 FT	N/A
MIN. SIDE YARD: 10 FT	N/A
MAX. BLDG. LOT COV.: 40%	N/A
MAX. TOTAL LOT COV.: 70%	N/A
MIN. DIST. FROM RES. ZONE: 25 FT	N/A
MAX. FLOOR AREA RATIO: 0.5	N/A

<u>APPLICANT:</u>	<u>OWNER (LOT 15):</u>	<u>OWNER (LOT 16):</u>
DAVID J. RAMOS	DAVID J. RAMOS	LIONEL J. RAMOS
12 RUTH AVENUE	12 RUTH AVENUE	9 SCOTT LANE
BRISTOL, RI 02809	BRISTOL, RI 02809	BRISTOL, RI 02809

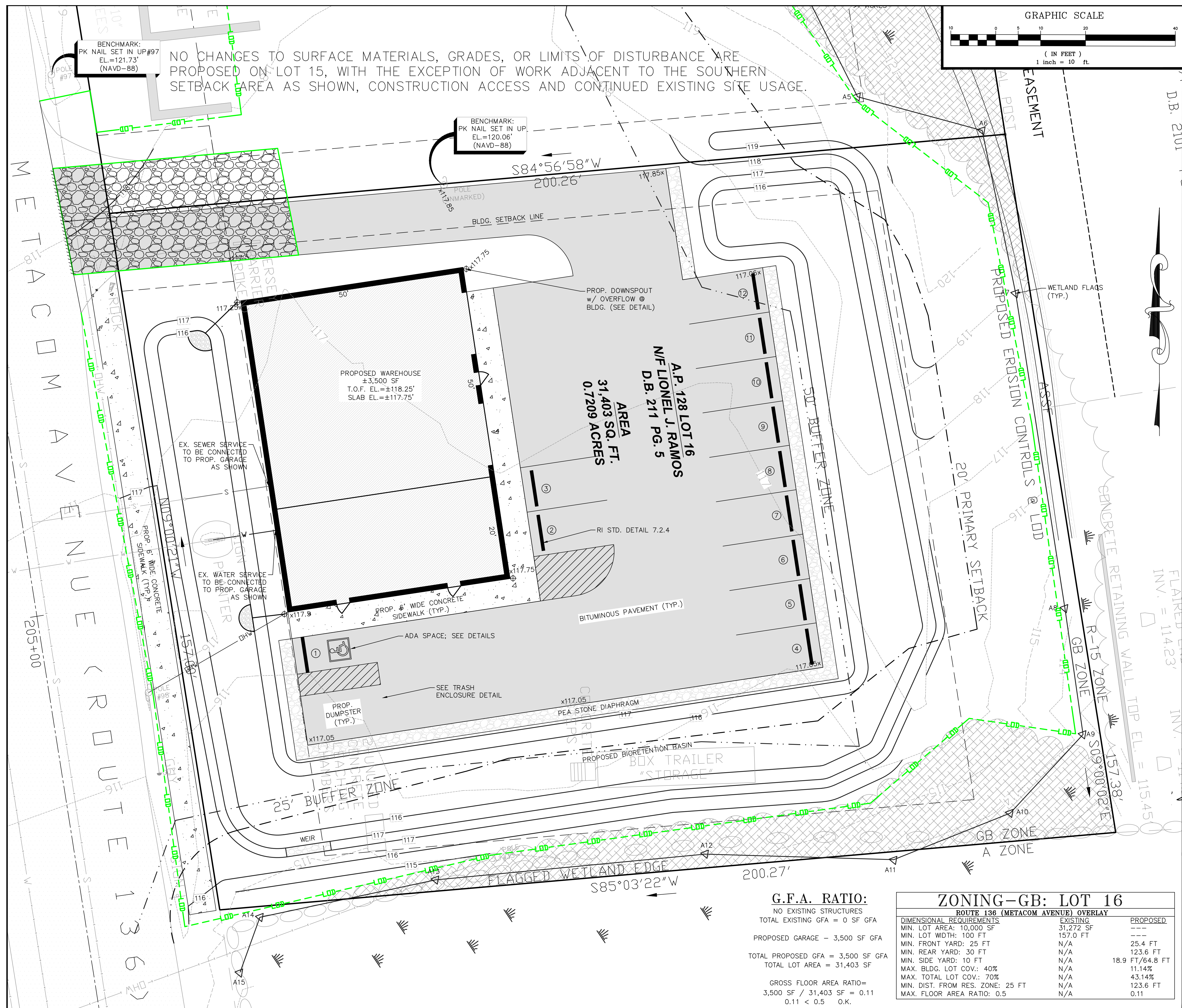
EXISTING CONDITIONS—LOTS 15 & 16

[illegible]









### PLAN NOTES:

1. CONTRACTOR TO VERIFY BENCHMARK AND EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.
2. PLAN IS TO BE USED SOLELY FOR THE USE OF THE SOIL EROSION, RUNOFF AND SEDIMENT CONTROL ORDINANCE FOR THE TOWN OF BRISTOL AND IS NOT AUTHORIZED FOR ANY OTHER USE. CONTRACTOR TO STRICTLY ADHERE TO BRISTOL'S SOIL EROSION, RUNOFF AND SEDIMENT CONTROL ORDINANCE AT ALL TIMES DURING CONSTRUCTION.
3. SEE ADDITIONAL NOTES ON SHEET 6 OF 6, WHICH NEED TO BE STRICTLY ADHERED TO AS WELL.

ARCHITECT NOTE:

IT IS THE RESPONSIBILITY OF THE ARCHITECT TO FINALIZE SITE LAYOUT & COORDINATE ELEMENTS WITH ENGINEER PRIOR TO CONSTRUCTION. FINAL GRADING & LAYOUT SHALL BE COORDINATED AND VERIFIED THROUGH ARCHITECT DRAWINGS.

**BUILDING LOT COVERAGE:**

NO EXISTING STRUCTURES  
TOTAL EXISTING LOT COVERAGE = 0 SF  
PROPOSED GARAGE - 3,500 SF  
TOTAL PROPOSED LOT COVERAGE = 3,500 SF  
TOTAL LOT AREA = 31,403 SF

LOT COVERAGE=  
3,500 SF / 31,403 SF X 100% = 11.14%  
11.14% TOTAL LOT COVERAGE < 25% O.K

## TOTAL LOT COVERAGE:

EXISTING GRAVEL PARKING AREA = 12,973 SF  
TOTAL EXISTING LOT COVERAGE = 12,973 SF

PROPOSED BUILDING = 3,500 SF  
PROPOSED ON-SITE SIDEWALK = 723 SF  
PROPOSED PAVEMENT = 8,788 SF

TOTAL PROPOSED LOT COVERAGE = 13,011 SF  
TOTAL LOT AREA = 31,011 SF

LOT COVERAGE=  
13,011 SF / 31,403 SF X 100% = 43.14%  
43.14% TOTAL LOT COVERAGE < 70% O.K.

### PARKING REQUIREMENTS:


SERVICE BUSINESS: 1 SPOT / 300 SF GFA REQ.  
3,500 SF PROPOSED x 1 SPOT/300 SF GFA = 11.7 REQ.

TOTAL PARKING SPOTS REQUIRED = 11.7  
TOTAL PARKING SPOTS PROVIDED = 12

<u>APPLICANT:</u>	<u>OWNER (LOT 15):</u>	<u>OWNER (LOT 16):</u>
DAVID J. RAMOS	DAVID J. RAMOS	LIONEL J. RAMOS
12 RUTH AVENUE	12 RUTH AVENUE	9 SCOTT LANE
BRISTOL, RI 02809	BRISTOL, RI 02809	BRISTOL, RI 02809

## DRAINAGE &amp; GRADING PLAN-LOT 16

Thomas J. Principe, III



REGISTERED  
PROFESSIONAL ENGINEER



PRINCIPLE COMPANY, INC.  
ENGINEERING DIVISION

27 SAKONNET RIDGE DRIVE  
TIVERTON, RI 02878  
401.816.5385

[WWW.PRINCIPLECOMPANY.COM](http://WWW.PRINCIPLECOMPANY.COM)

[illegible]

PRELIMINARY SUBMISSION  
for  
668 & 670 METACOM AVENUE  
AP 128 LOTS 15 & 16  
in  
BRISTOL, RHODE ISLAND

SCALE: 1" = 10'		SHEET NO: 4 of 10	
DRAWN BY: KAB	DESIGN BY: KAB	CHECKED BY: TJP	
DATE: 08/08/2025		PROJECT NO.: ERSC-2024-2	







**PLAN NOTES:**

1. CONTRACTOR TO VERIFY BENCHMARK AND EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.

2. PLAN IS TO BE USED SOLELY FOR THE USE OF THE SOIL EROSION, RUNOFF AND SEDIMENT CONTROL ORDINANCE FOR THE TOWN OF BRISTOL AND IS NOT AUTHORIZED FOR ANY OTHER USE. CONTRACTOR TO STRICTLY ADHERE TO BRISTOL'S SOIL EROSION, RUNOFF, AND SEDIMENT CONTROL ORDINANCE AT ALL TIMES DURING CONSTRUCTION.

3. SEE ADDITIONAL NOTES ON SHEET 6 OF 6, WHICH NEED TO BE STRICTLY ADHERED TO AS WELL.

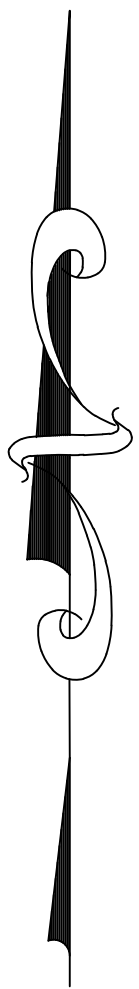
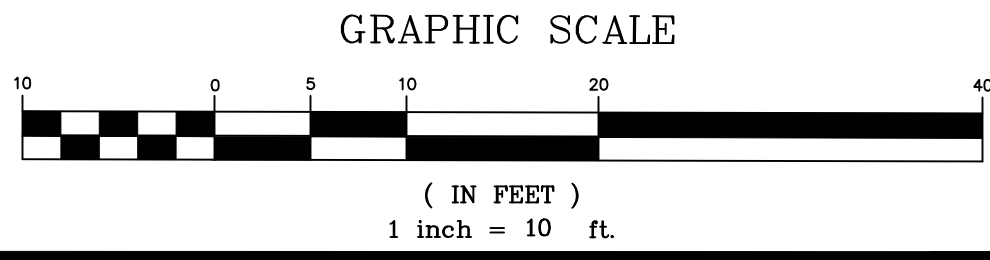
**ARCHITECT NOTE:**

IT IS THE RESPONSIBILITY OF THE ARCHITECT TO FINALIZE SITE LAYOUT & COORDINATE ELEMENTS WITH ENGINEER PRIOR TO CONSTRUCTION. FINAL GRADING & LAYOUT SHALL BE COORDINATED AND VERIFIED THROUGH ARCHITECT DRAWINGS.

**BUILDING LOT COVERAGE:**

NO EXISTING STRUCTURES  
TOTAL EXISTING LOT COVERAGE = 0 SF

NO PROPOSED STRUCTURES  
TOTAL PROPOSED LOT COVERAGE = 0 SF

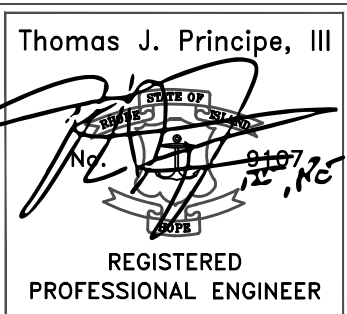


APPLICANT:  
DAVID J. RAMOS  
12 RUTH AVENUE  
BRISTOL, RI 02809

OWNER (LOT 15):  
DAVID J. RAMOS  
12 RUTH AVENUE  
BRISTOL, RI 02809

OWNER (LOT 16):  
LIONEL J. RAMOS  
9 SCOTT LANE  
BRISTOL, RI 02809

**PROPOSED CONDITIONS PLAN-LOT 15**



**PRINCIPE COMPANY, INC.**  
ENGINEERING DIVISION

27 SAKONNET RIDGE DRIVE  
TIVERTON, RI 02878  
401.816.5385  
WWW.PRINCIPECOMPANY.COM

**REVISIONS**

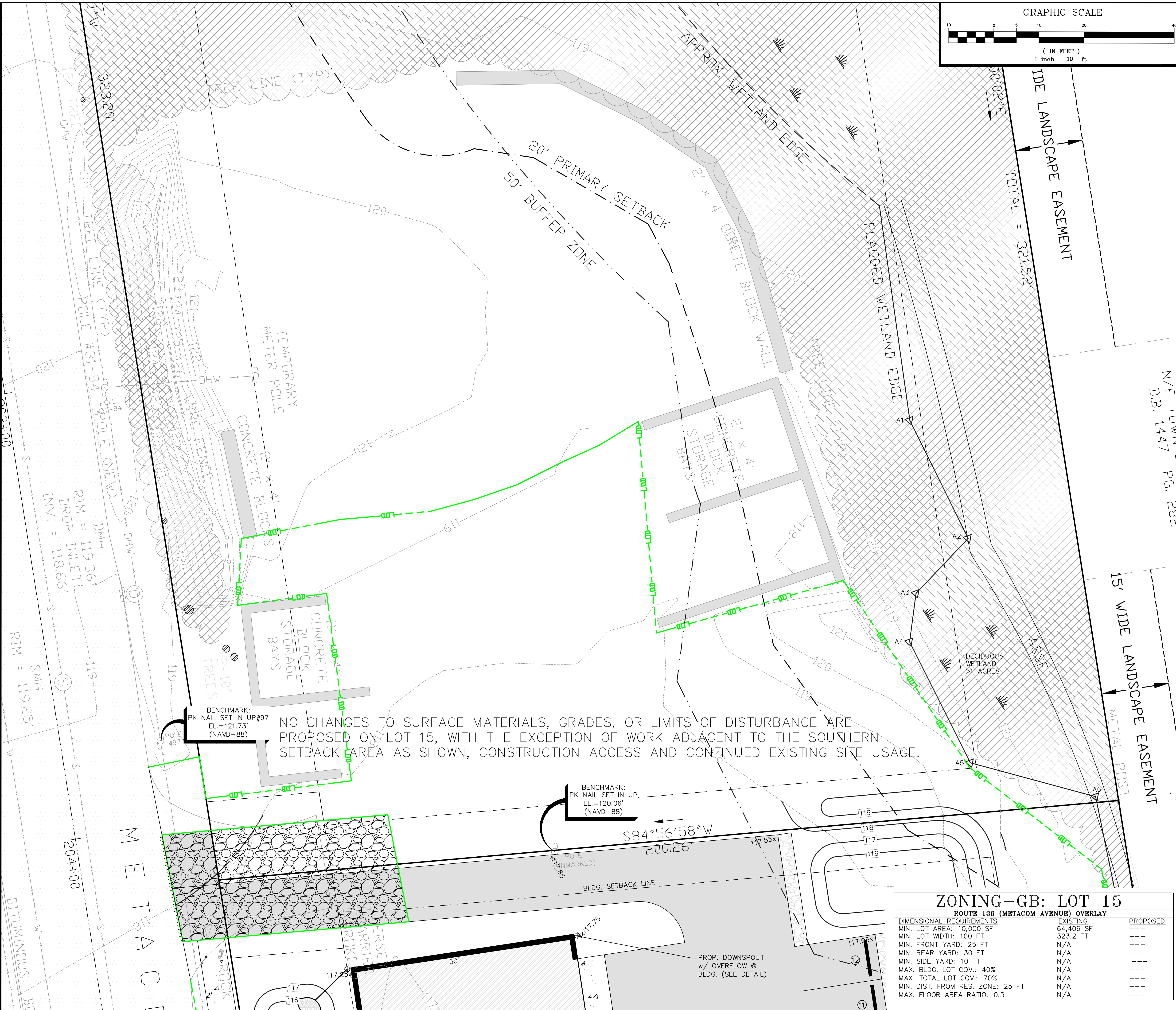
No.	DATE	DRWN	CHKD

**PRELIMINARY SUBMISSION**  
for  
**668 & 670 METACOM AVENUE**  
AP 128 LOTS 15 & 16  
in  
BRISTOL, RHODE ISLAND

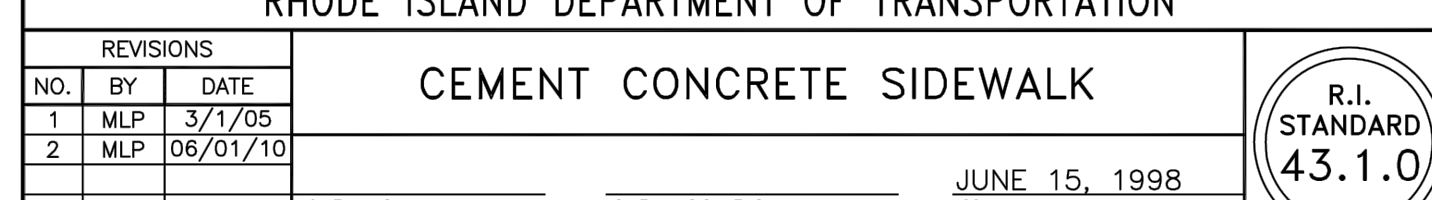
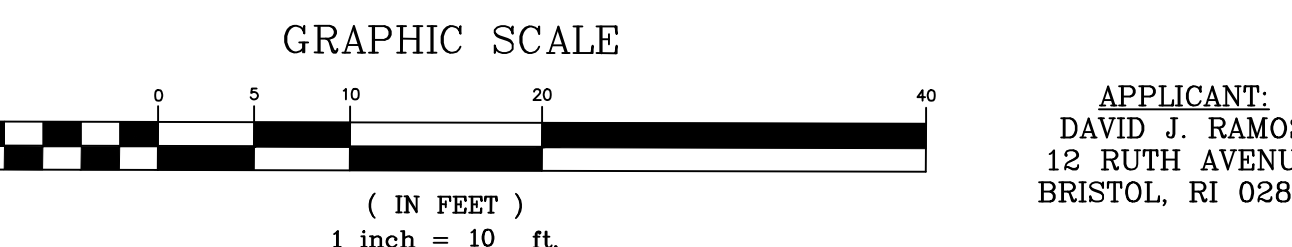
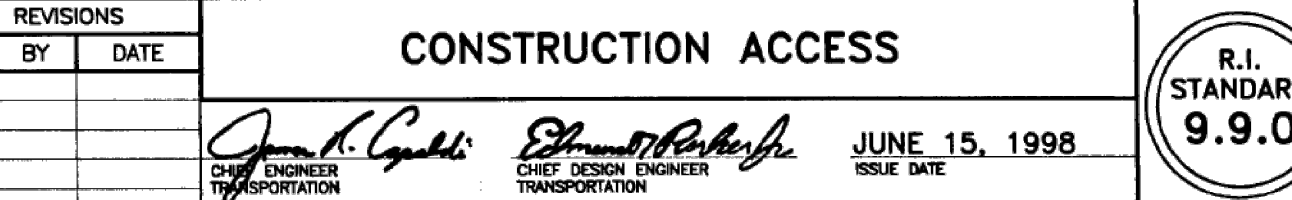
SCALE: 1" = 10'      SHEET NO: 6 of 10

DRAWN BY: KAB      DESIGN BY: KAB      CHECKED BY: TJP

DATE: 08/08/2025      PROJECT NO.: ERSC-2024-2







1. THERE WILL BE NO IMPACT TO THE STATE HIGHWAY DRAINAGE SYSTEM AS THERE IS NO PROPOSED INCREASE IN UNTREATED IMPERVIOUS AREA AND NO CHANGE IN WATERSHED FLOW.
2. ALL WORK TO BE DONE WITHIN THE STATE HIGHWAY RIGHT OF WAY (ROW) SHALL CONFORM TO THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AUGUST 2023 EDITION WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE R.I. STANDARD DETAILS 1998 EDITION (AMENDED OCTOBER 2022) WITH ALL REVISIONS.
3. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009, INCLUDING ALL REVISIONS.
4. 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.
5. 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.
6. 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.

SCALE: 1" = 10'		SHEET NO: 7 of 10	
DRAWN BY: KAB		DESIGN BY: KAB	CHECKED BY: TJP
DATE: 08/08/2025		PROJECT NO.: ERSC-2024-2	

<u>APPLICANT:</u>	<u>OWNER (LOT 15):</u>	<u>OWNER (LOT 16):</u>
DAVID J. RAMOS	DAVID J. RAMOS	LIONEL J. RAMOS
12 RUTH AVENUE	12 RUTH AVENUE	9 SCOTT LANE
BRISTOL, RI 02809	BRISTOL, RI 02809	BRISTOL, RI 02809



C:\Users\admin\Principe Engineering Dropbox\ERSC PLANS\2024\ERSC-2024-2\_670 Metacom Avenue\_Bristol\_Dave Romos\Drawings\ERSC-2024-2\_670 Metacom Avenue\_Bristol\_PRELIMINARY.dwg, DWG To PDF.pc3

GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE STATE OF RHODE ISLAND AND THE MUNICIPALITY PRIOR TO COMMENCING ANY WORK.
- IT SHALL ALSO BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ADJUTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
- BEFORE STARTING ANY CONSTRUCTION THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ANY HYDRANTS, WATER MAINS, BLOWOFF ASSEMBLIES, FITTINGS, AND VALVES WITH THE LOCAL WATER DEPARTMENT AS TO TYPE AND MANUFACTURER.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE MUNICIPAL ENGINEERING DEPARTMENT AND ALL UTILITY INSTALLATIONS AND INSPECTIONS WITH THE APPROPRIATE UTILITY COMPANY. A 48 HOUR ADVANCE NOTICE IS REQUIRED BEFORE WORK COMMENCEMENT.
- ALL WORK PERFORMED HEREIN SHALL BE COVERED BY THE "R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 1997)" WITH ALL CORRECTIONS AND ADDENDA AND THE 1974 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA AND THE TOWN OF BRISTOL STANDARD SPECIFICATIONS AND DETAILS.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR QUANTITY TAKE-OFF IN COMPUTING ANY ESTIMATES.
- EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOPSOIL AND SEEDED, SEE EROSION CONTROL PROGRAM.
- UNLESS OTHERWISE SPECIFIED, ALL STORM DRAINS SHALL BE REINFORCED CONCRETE CLASS III PIPE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION REQUIRED ON THESE PLANS. THAT INCLUDES ANY CONSTRUCTION TO BRING UTILITIES TO SITE, ANY REPAIRS, ANY TRENCHING INDICATED, HYDRANTS, ANY AND ALL CONSTRUCTION FOR ACCEPTANCE OF ROADS AND EASEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. "DIG SAFE" SHALL BE CONTACTED BY THE CONTRACTOR AS PART OF THIS VERIFICATION.
- IN ALL EXCAVATION AND PLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
- ALL WATER MAINS SHALL BE DEFLECTED ALONG A CURVE WITH A MINIMUM RADIUS OF 250' AT ANY LOCATION WHERE THIS IS NOT POSSIBLE, PROPER BENDS AND FITTINGS SHALL BE USED.
- ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS, AND OTHER REFUSE SHALL BE DISCARDED OFF SITE, IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

EROSION CONTROL & SOIL STABILIZATION PROGRAM

- DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
- ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE, FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
- THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH R.I. STD SPECIFICATION M 18.
- THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
- THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING PERMANENT SEEDING MIXTURES:

A. MOWED AREA (ALL FLATS OR SLOPES LESS THAN 3:1)

MIXTURE:	% BY WEIGHT:	SEEDING DATES:
RED FESCUE	75	APRIL 1 - JUNE 15
KENTUCKY BLUEGRASS	15	AUGUST 15 - OCTOBER 15
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	5	
TOTAL:	100 lbs/Ac.	

B. UNMOWED AREA OR INFREQUENTLY MOWED (ALL SLOPES GREATER THAN 3:1)

MIXTURE:	% BY WEIGHT:	SEEDING DATES:
RED FESCUE	75	APRIL 1 - JUNE 15
COLONIAL BENTGRASS	5	AUGUST 15 - OCTOBER 15
PERENNIAL RYEGRASS	5	
BIRD'SFOOT TROFOIL	15	
TOTAL:	100 lbs/Ac.	
- TEMPORARY TREATMENTS SHALL CONSIST OF A STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS) THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
- STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000 - 4,000 lbs/Ac.
- STRAW BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP MINIMIZE THE EROSION. A TEMPORARY SEEDING GUIDE MUST BE INCLUDED AS A REFERENCE. THE FOLLOWING SPECIES ARE RECOMMENDED:

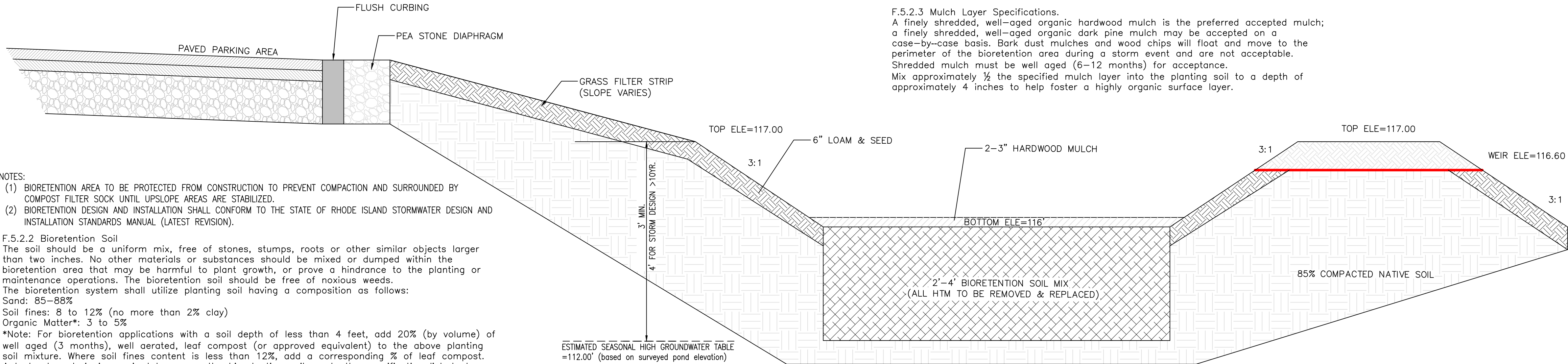
MIXTURE:	lbs./1,000 S.F.	lbs/Ac.	SEEDING DATES:
ANNUAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
PERENNIAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
SUDAN GRASS	0.7 - 1.0	30 - 40	5/15 - 8/15
MILLET	0.7 - 1.0	30 - 40	5/15 - 8/15
WINTER RYE	3.0	120	4/15 - 6/15
OATS	0.5 - 5.0	86 - 120	3/1 - 6/15
WEEPING COVER GRASS	0.5 - 5.0	5 - 20	5/1 - 7/1

ORDER OF PROCEDURE:

- PRIOR TO ANY CLEARING AND GRUBBING OR ANY ROUGH GRADING, TEMPORARY STRAW BALES AND SANDBAGS SHALL BE PLACED OUTSIDE THE LIMITS OF CONSTRUCTION AS PER THE PLANS (I.E. ALONG ROADWAYS, STREAM BANKS, CRITICAL AREAS, ETC.).
- ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.
- IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE EROSION AND SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL.
- TEMPORARY STRAW BALES AND SANDBAGS ALONG AND AT THE ENDS OF ROADWAYS MAY ALSO BE REMOVED AFTER FINAL SOIL STABILIZATION HAS BEEN ACHIEVED AND APPROVED.
- STRAW BALES LOCATED AT DRAINAGE OUTLETS MUST REMAIN UNTIL SUCH TIME THAT A DESIRABLE STAND OF GRASS OR COVER HAS BEEN ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER.

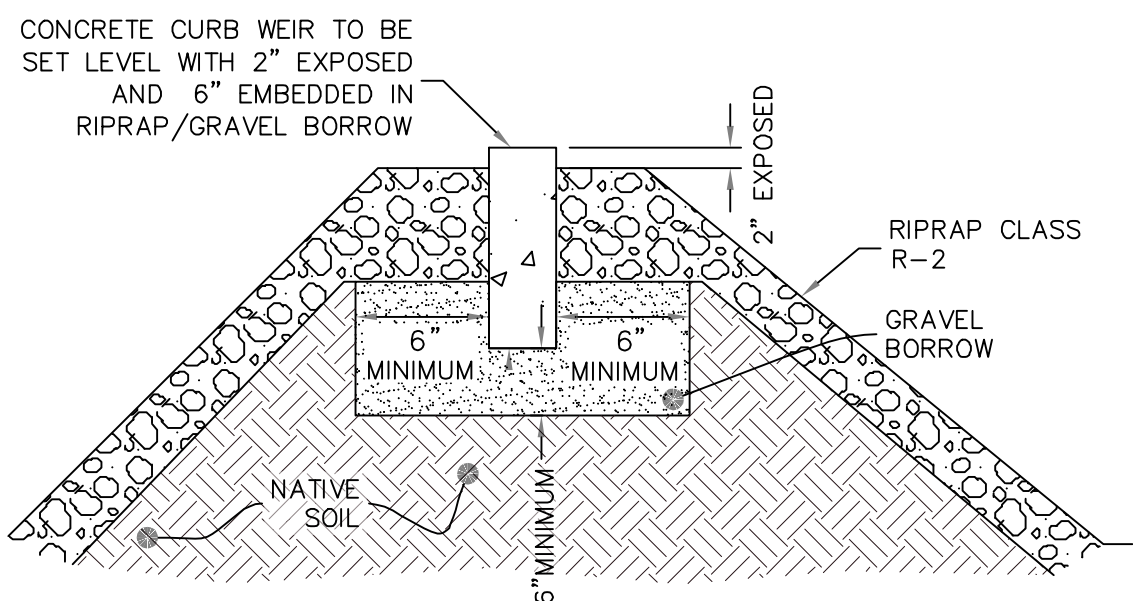
SEDIMENTATION CONTROL PROGRAM:

- RIP RAP SPLASH PADS SHALL BE INSTALLED AT THE OUTLETS FOR ALL CULVERTS DISCHARGING INTO A WATERWAY.
- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL ENTERING THE WETLANDS.
- ALL DISTURBED AREAS SUBJECT TO EROSION TENDENCIES WHETHER THEY ARE NEWLY FILLED OR EXCAVATED SHALL BE SEEDED AND PROTECTED WITH A FIBER MULCH.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
- CARE SHOULD BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECTED TO STORM WATER FLOW.
- ADDITIONAL STRAW BALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT.
- ALL SEDIMENTS SHALL BE REMOVED FROM THE DRAINAGE AND DETENTION FACILITIES AS SCHEDULED FOR EACH FACILITY (SEE DETENTION BASIN MAINTENANCE, THIS SHEET).
- REFERENCE THE "R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, AS A GUIDE.



BIORETENTION AREA DETAIL

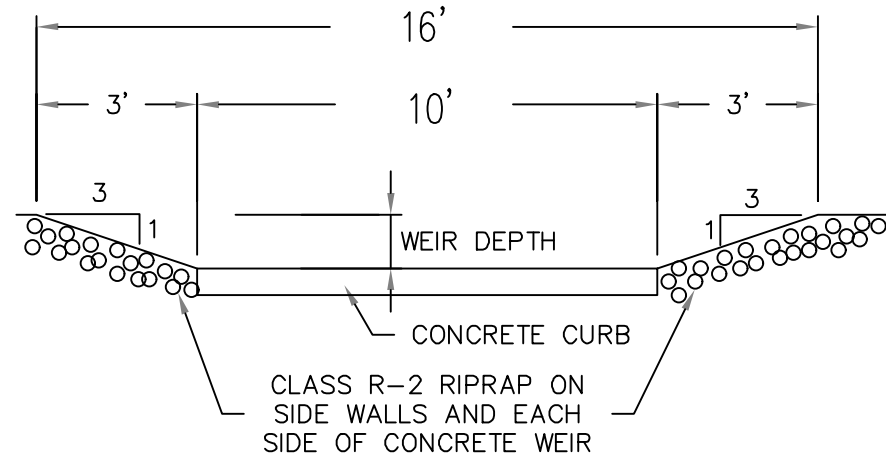
NOT TO SCALE



ALL BACKFILL SHALL BE FREE FROM ORGANIC OR HTM.

Curb Outlet Weir Cross Section

NOT TO SCALE



Emergency Spillway / Overflow Weir Detail

NOT TO SCALE

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 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 DETAIL 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 STRAW BALES OR SILT FENCE. THE STOCK PILES SHALL ALSO BE SEEDED OR STABILIZED IN SOME MANNER TO PREVENT SOIL EROSION.
- THE SMALLEST POSSIBLE SITE AREAS SHALL BE DISTURBED OR EXPOSED AT ONE TIME AND DENUDED 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 SEEDED 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.

Botanical Name

25.60 %	<i>Schizachyrium scoparium, Fort Indiantown Gap-PA Ecotype</i>
20.00 %	<i>Elymus virginicus, Madison-NY Ecotype</i>
9.00 %	<i>Carex vulpinoidea, PA Ecotype</i>
8.00 %	<i>Echinacea purpurea</i>
7.80 %	<i>Chasmanthium latifolium, WV Ecotype</i>
6.80 %	<i>Panicum rigidulum, PA Ecotype</i>
3.00 %	<i>Coreopsis lanceolata</i>
3.00 %	<i>Rudbeckia hirta</i>
2.50 %	<i>Verbena hastata, PA Ecotype</i>
2.00 %	<i>Chamaecrista fasciculata, PA Ecotype</i>
2.00 %	<i>Panicum clandestinum, Tioga</i>
1.50 %	<i>Asclepias incarnata, PA Ecotype</i>
1.50 %	<i>Heliopsis helianthoides, PA Ecotype</i>
1.30 %	<i>Penstemon digitalis, PA Ecotype</i>
1.20 %	<i>Zizia aurea, PA Ecotype</i>
0.70 %	<i>Pycnanthemum tenuifolium</i>
0.50 %	<i>Aster novae-angliae</i>
0.50 %	<i>Baptisia australis, Southern WV Ecotype</i>
0.50 %	<i>Juncus effusus</i>
0.50 %	<i>Juncus tenuis, PA Ecotype</i>
0.50 %	<i>Senna hebecarpa, VA &amp; WV Ecotype</i>
0.50 %	<i>Vernonia noveboracensis, PA Ecotype</i>
0.30 %	<i>Monarda fistulosa, Fort Indiantown Gap-PA Ecotype</i>
0.20 %	<i>Aster lateriflorus</i>
0.20 %	<i>Solidago nemoralis, PA Ecotype</i>
0.10 %	<i>Aster pilosus, PA Ecotype</i>
0.10 %	<i>Eupatorium perfoliatum, PA Ecotype</i>
0.10 %	<i>Mimulus ringens, PA Ecotype</i>
0.10 %	<i>Solidago juncea, PA Ecotype</i>

100.00 %

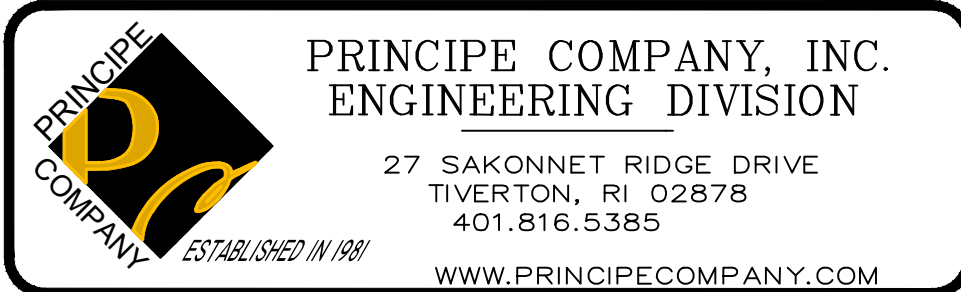
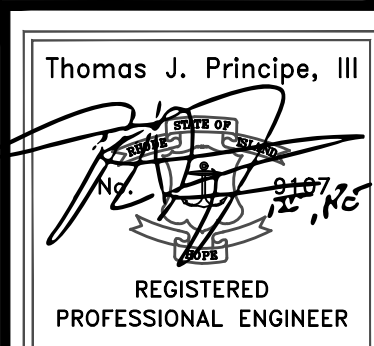
**Seeding Rate:** 20 lb per acre with a cover crop. For sites that drain within 24 hours of a rain event use one of the following cover crops: Oats (1 Jan to 31 Jul; 30 lbs/acre), Japanese Millet (1 May to 31 Aug; 10 lbs/acre), or grain rye (1 Aug to 31 Dec; 30 lbs/acre).

APPLICANT: DAVID J. RAMOS  
12 RUTH AVENUE  
BRISTOL, RI 02809

OWNER (LOT 15): LIONEL J. RAMOS  
12 RUTH AVENUE  
BRISTOL, RI 02809

OWNER (LOT 16): LIONEL J. RAMOS  
9 SCOTT LANE  
BRISTOL, RI 02809

CONSTRUCTION DETAILS-1

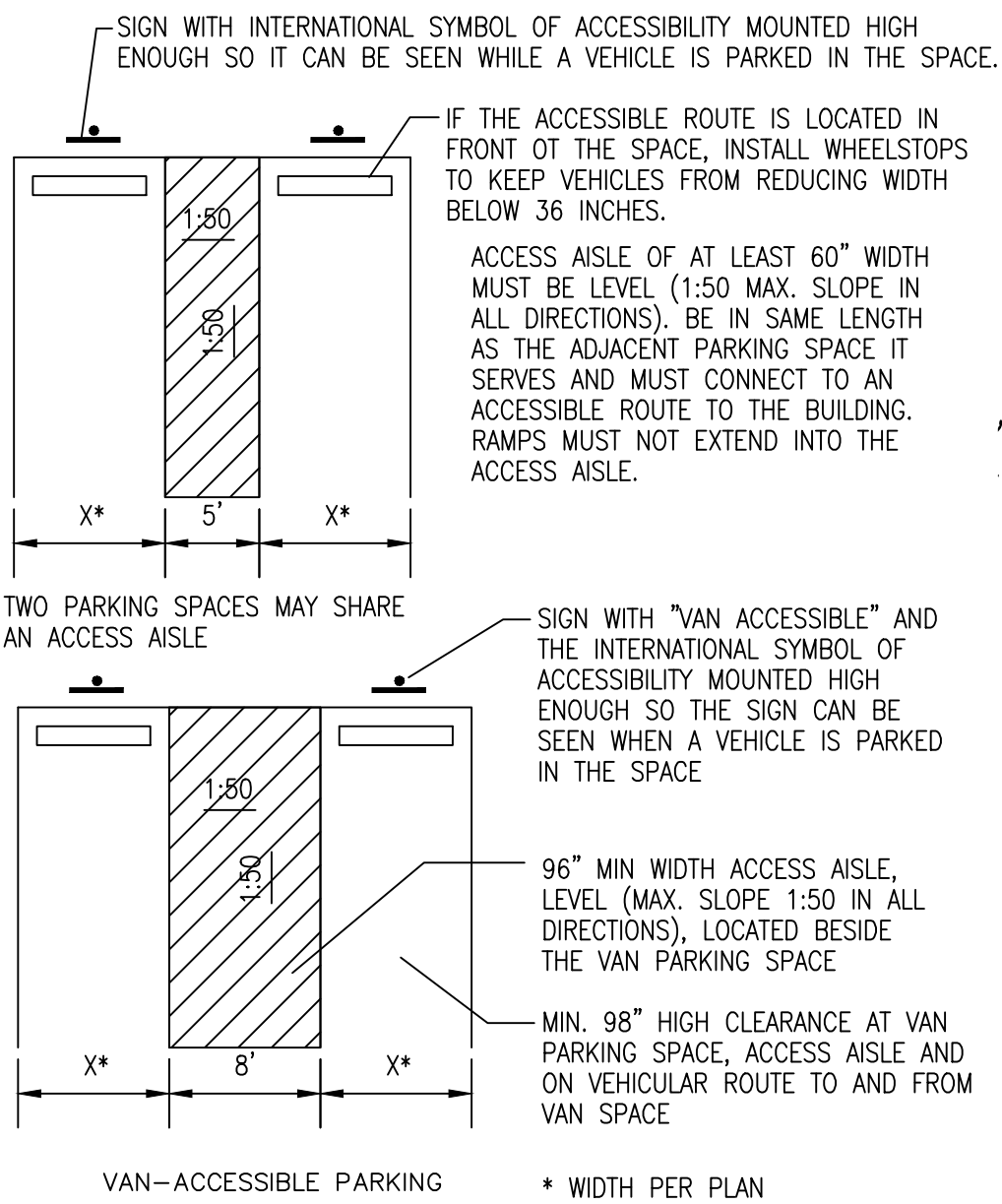


PRELIMINARY SUBMISSION  
for  
668 & 670 METACOM AVENUE  
AP 128 LOTS 15 & 16  
in  
BRISTOL, RHODE ISLAND

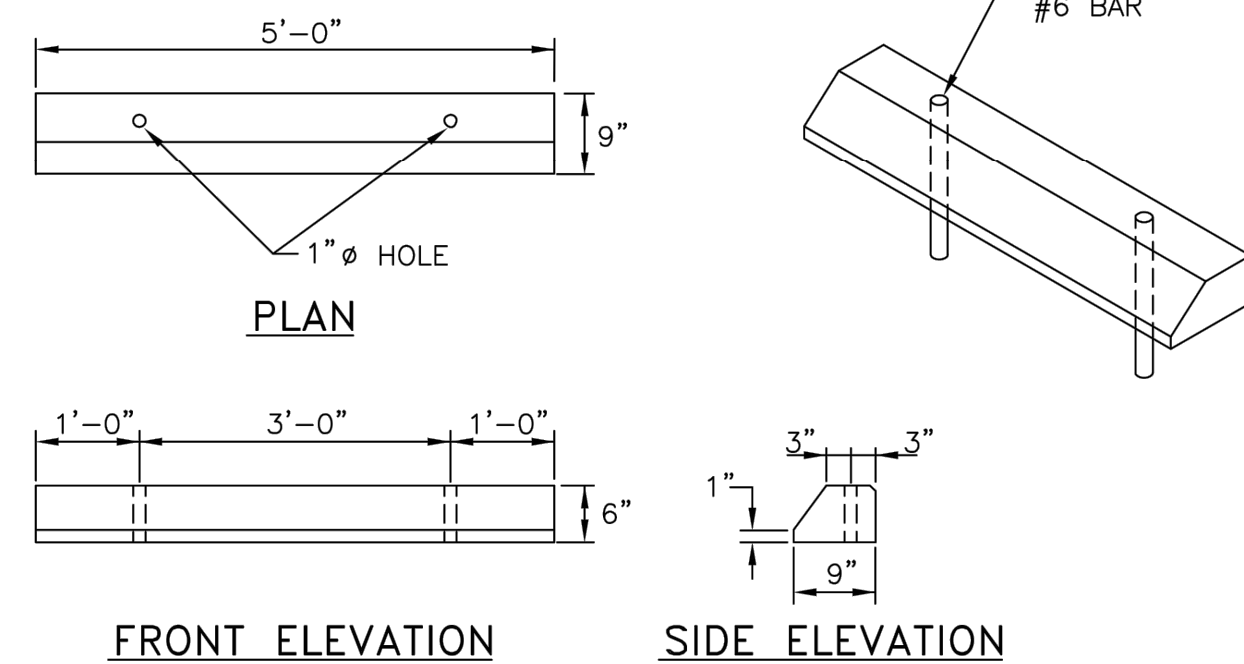
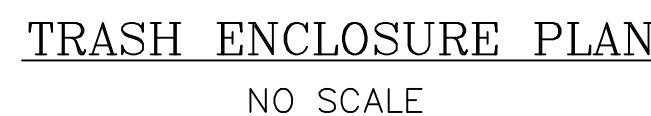
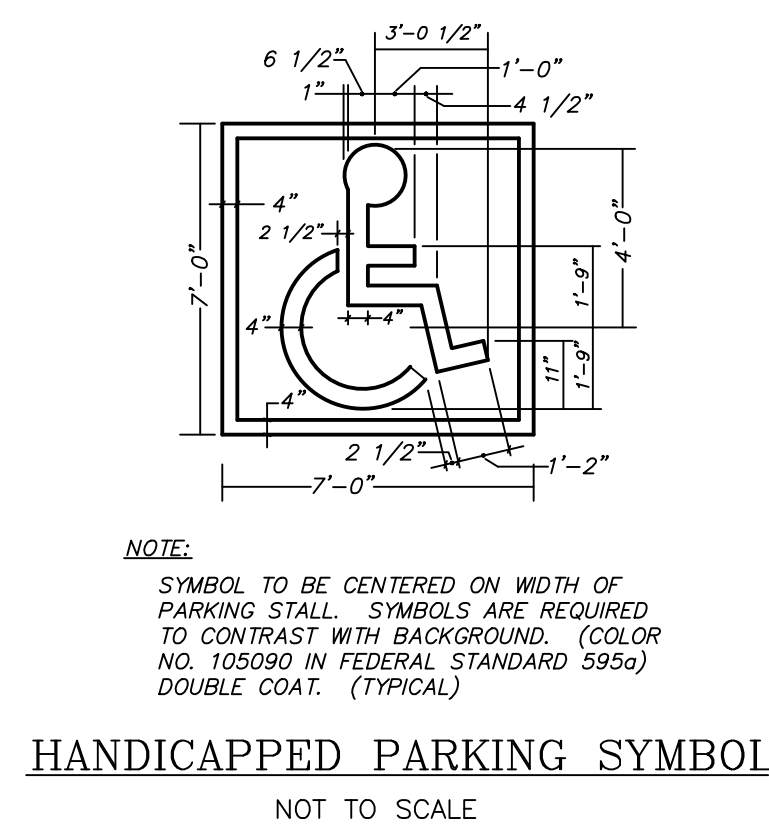
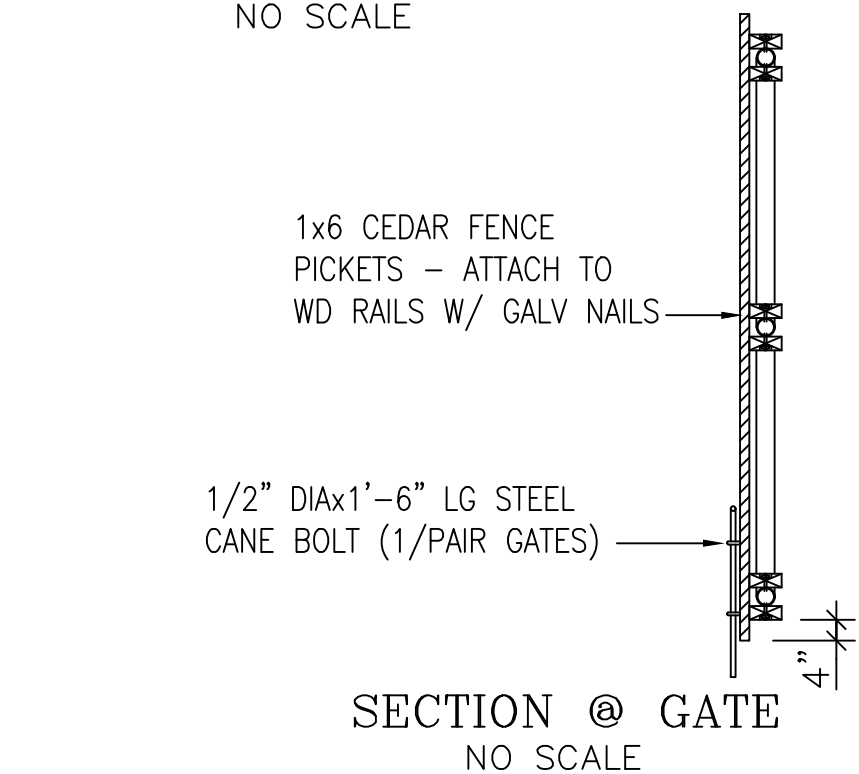
SCALE: AS NOTED SHEET NO: 8 of 10  
DRAWN BY: KAB DESIGN BY: KAB CHECKED BY: TJP  
DATE: 08/08/2025 PROJECT NO.: ERSC-2024-2

HANDICAP PARKING SPACES

NOT TO SCALE





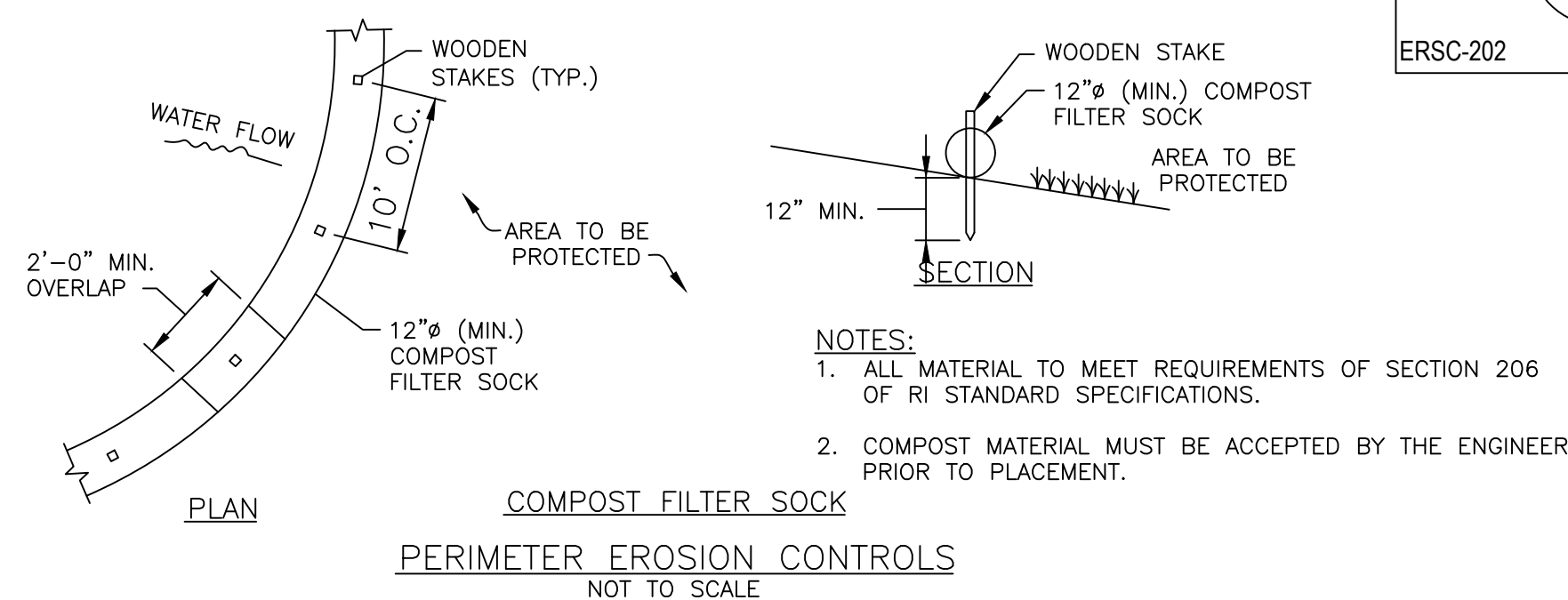
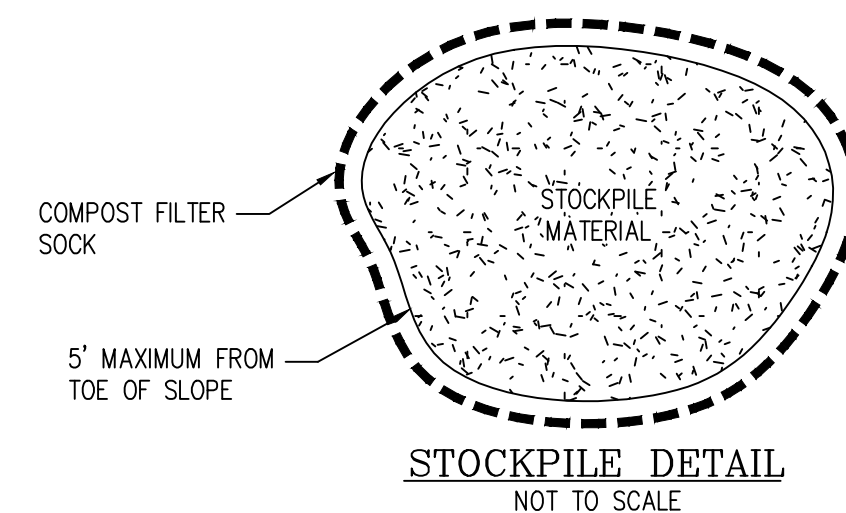
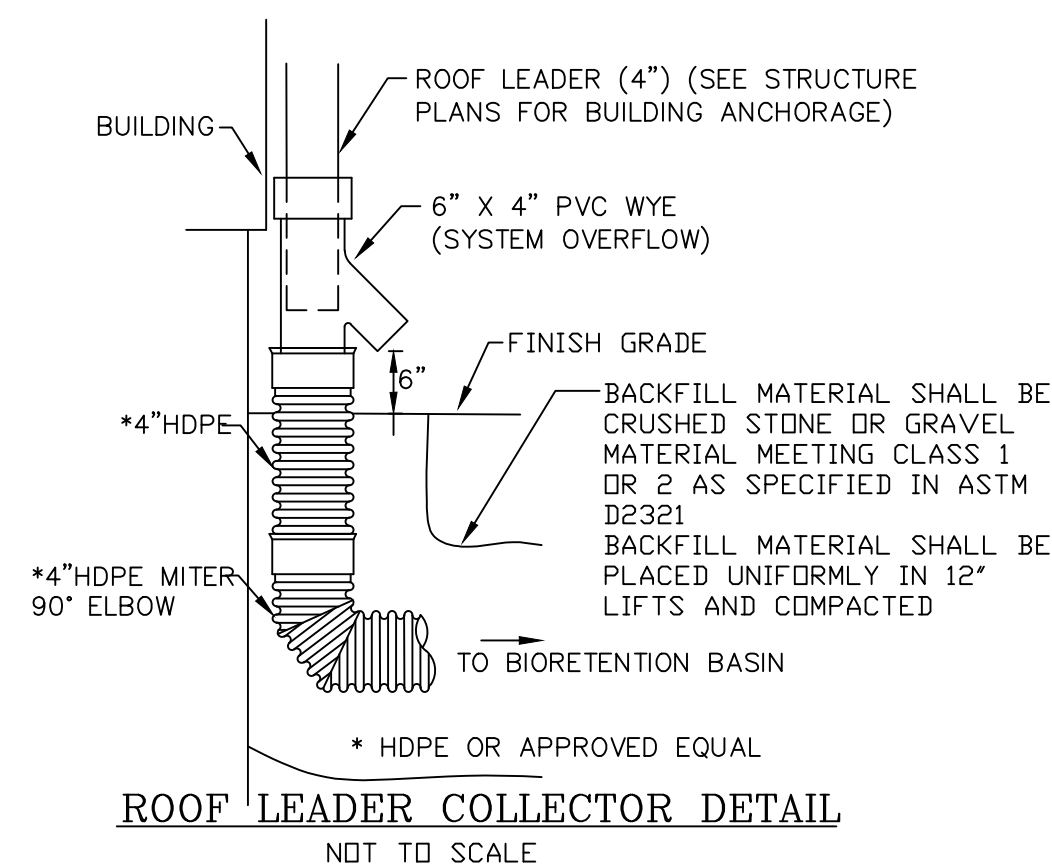
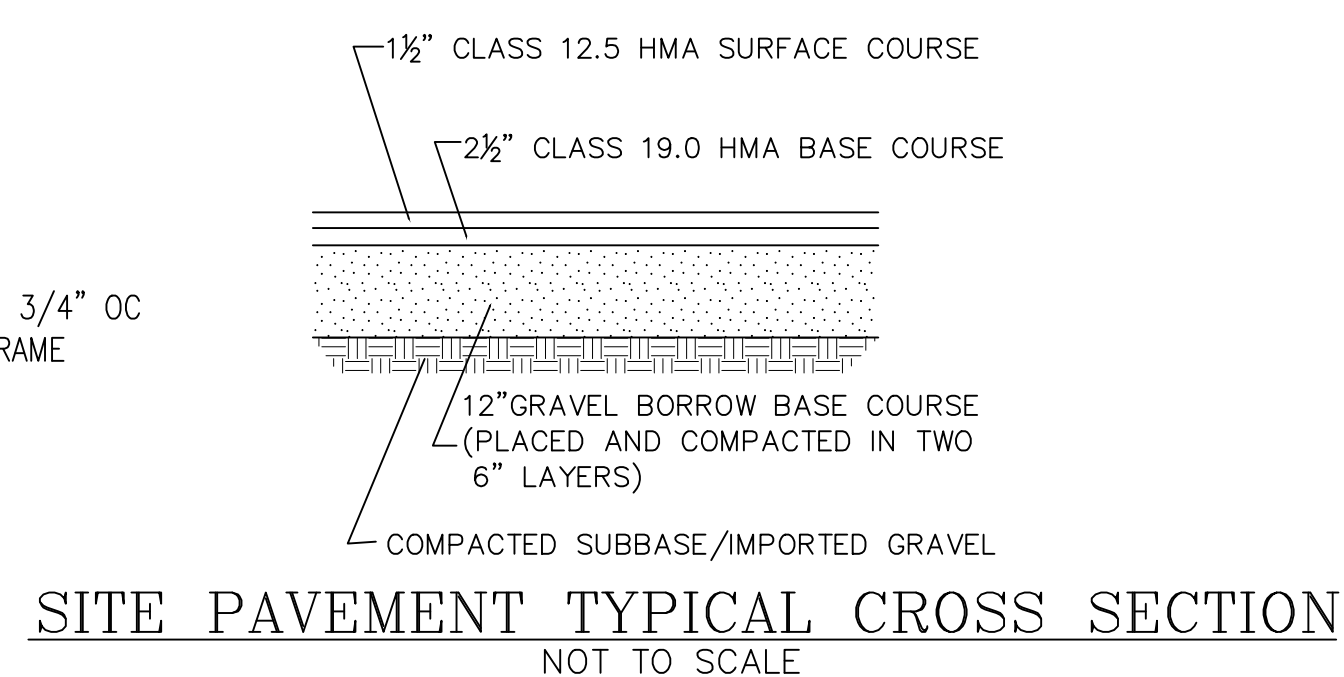




NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. ALL EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
3. ALL SURFACES TO HAVE A SPONGE FLOAT FINISH.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION				
REVISIONS			PRECAST CONCRETE CAR STOPS	<div><div>R.I. STANDARD 7.2.4</div></div>
NO.	BY	DATE		
1	MLP	Mar. 05		
<div><div> JAMES K. GAULT CHIEF ENGINEER TRANSPORTATION</div><div> EDMUND R. PERKINS DESIGN ENGINEER TRANSPORTATION</div><div>JUNE 15, 1998 ISSUE DATE</div></div>				



- NOTES:
1. ALL MATERIAL TO MEET REQUIREMENTS OF SECTION 206 OF RI STANDARD SPECIFICATIONS.
  2. COMPOST MATERIAL MUST BE ACCEPTED BY THE ENGINEER PRIOR TO PLACEMENT.

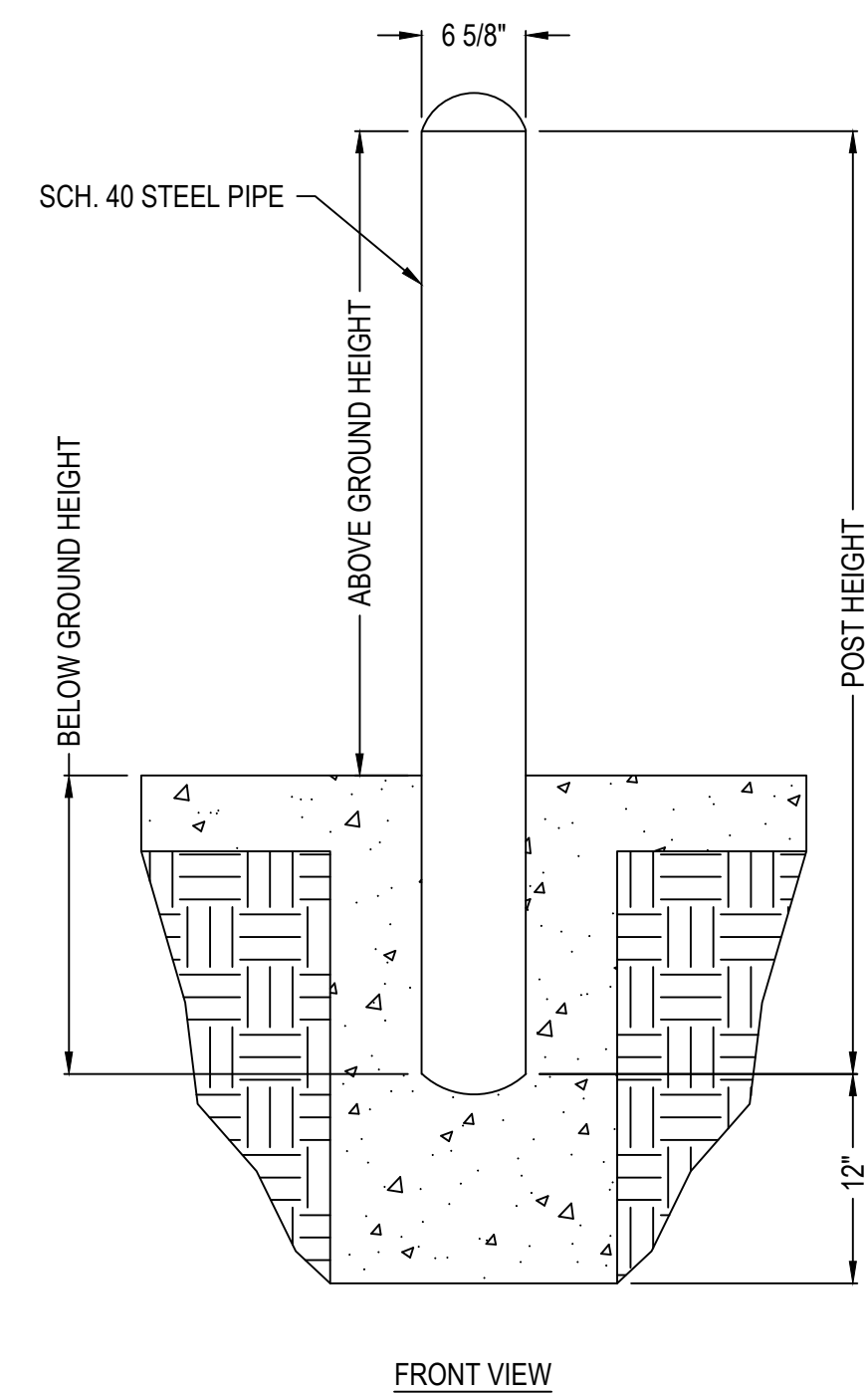


- ☐ BLASTED, PRIMED AND PAINTED\*
- ☐ BLASTED AND PRIMED
- ☐ HOT DIP GALVANIZED
- ☐ POWDER COATED

- ☐ 60"
- ☐ 72"
- ☐ 84"
- ☐ 96"
- ☐ CUSTOM HEIGHT:

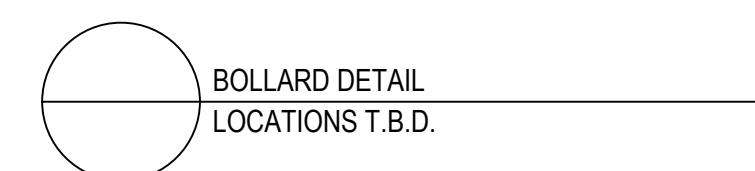
- ☐ 36"
- ☐ 48"

- ☐ 24"
- ☐ 36"



NOTES:

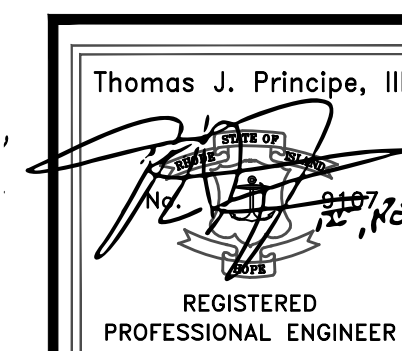
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT [www.CADDetails.com/info](http://www.CADDetails.com/info) AND ENTER REFERENCE NUMBER ERSC-2024.



ERSC-202

REVISION DATE 04/08/2025

## CONSTRUCTION DETAILS-2



PRINCIPE COMPANY, INC.  
ENGINEERING DIVISION

27 SAKONNET RIDGE DRIVE  
TIVERTON, RI 02878  
401.816.5385  
WWW.PRINCIPECOMPANY.

PRELIMINARY SUBMISSION

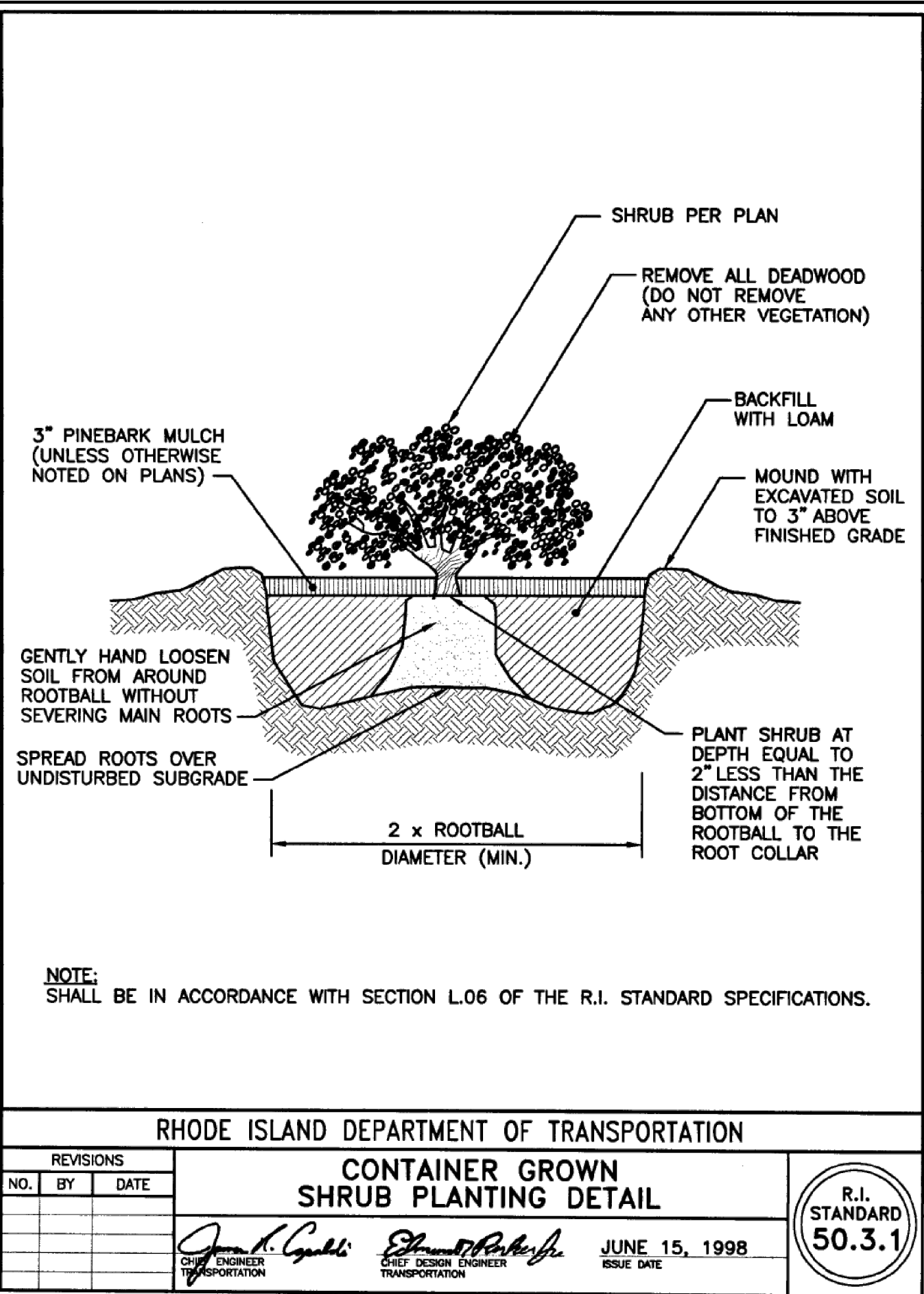
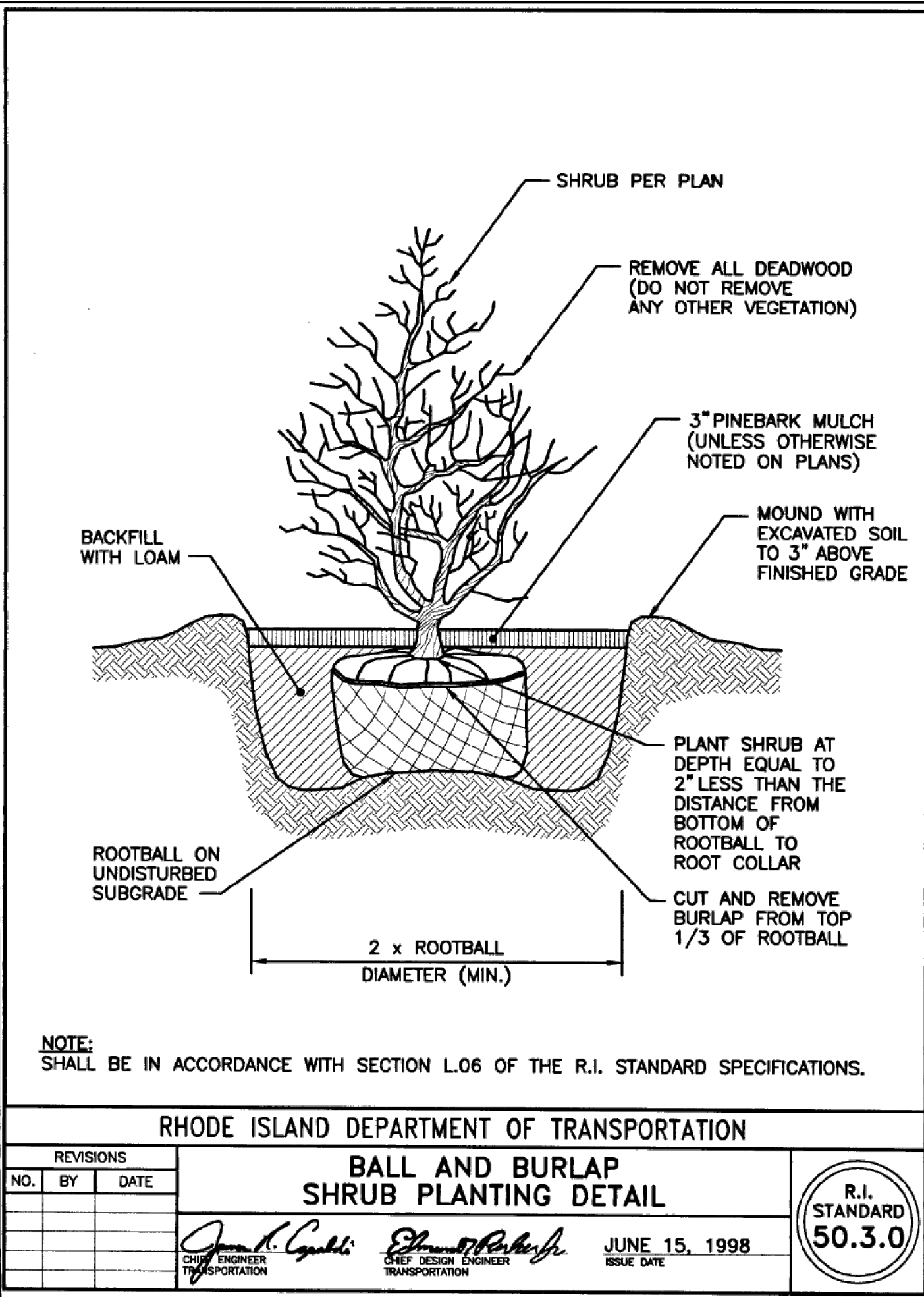
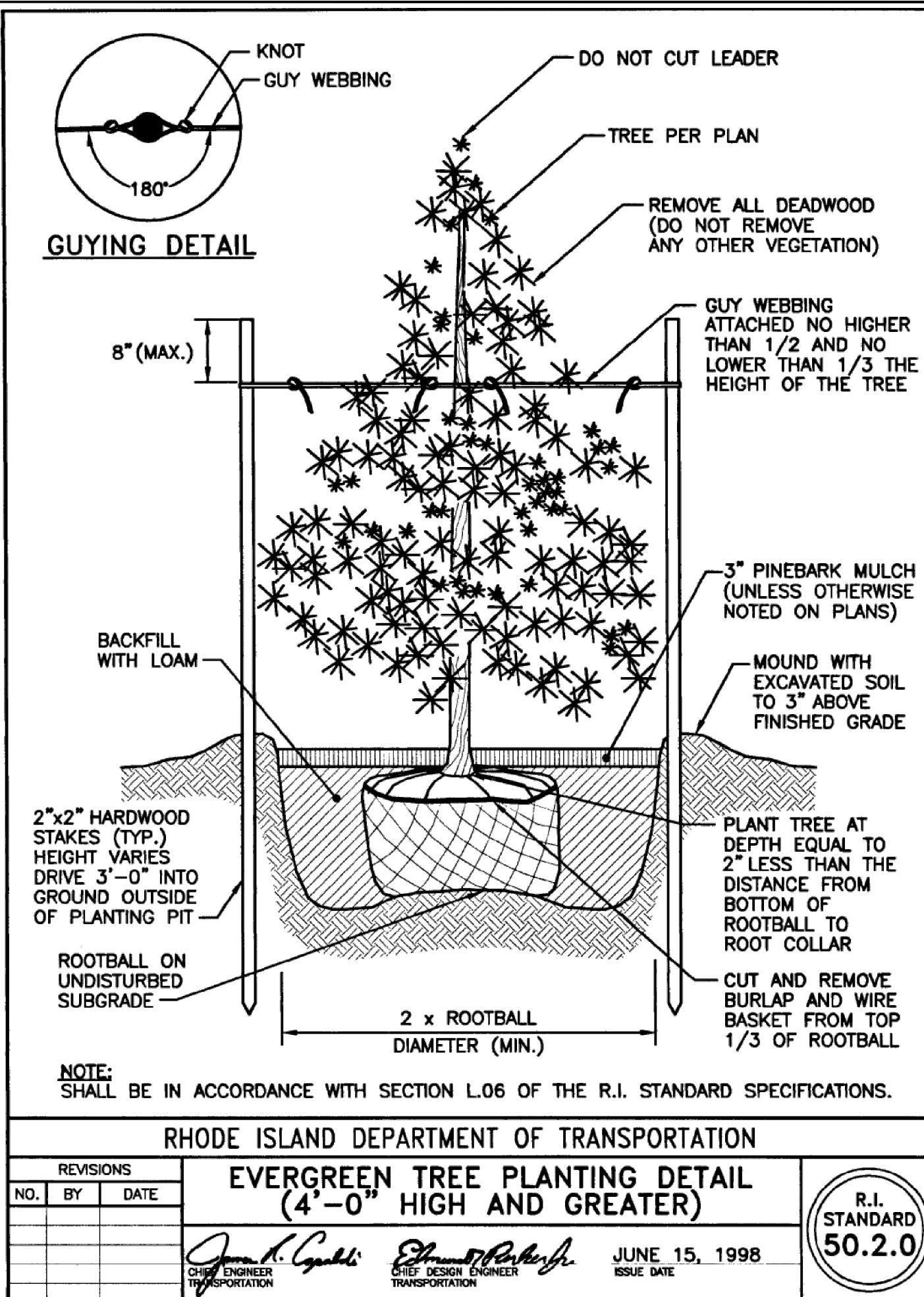
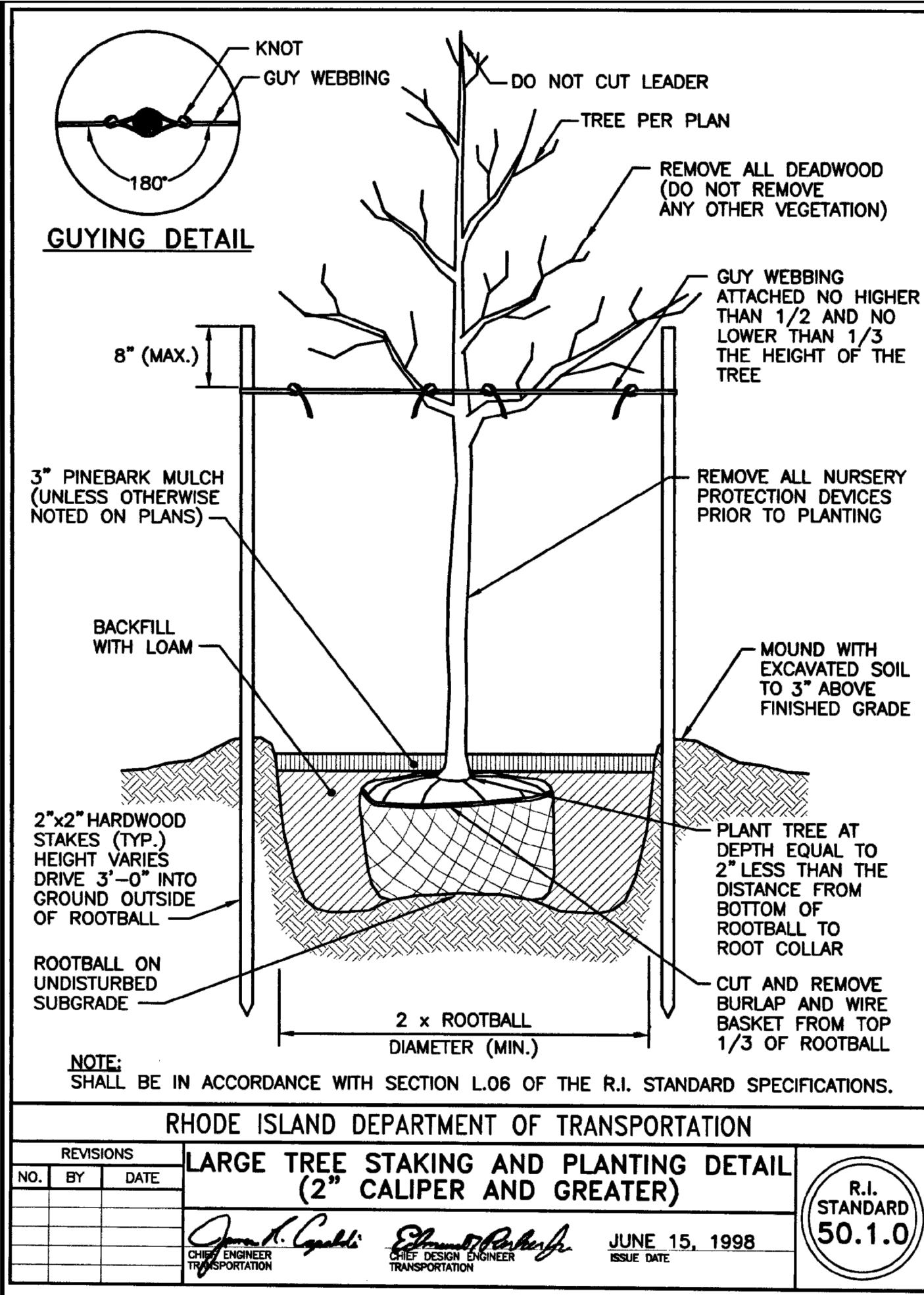
for  
668 & 670 METACOM AVENUE  
AP 128 LOTS 15 & 16  
in  
BRISTOL, RHODE ISLAND

SCALE: AS NOTED		SHEET NO: 9 of 10	
DRAWN BY: KAB	DESIGN BY: KAB	CHECKED BY: TJF	
DATE: 08/08/2025		PROJECT NO.: ERSC-2024-2	

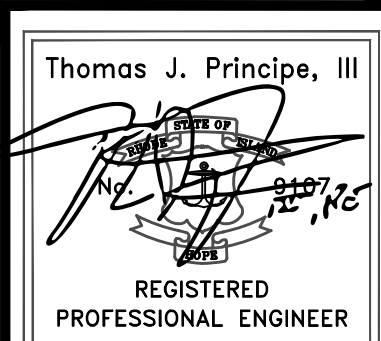
[illegible]



C:\Users\admin\Principle Engineering Dropbox\ERSC PLANS\2024\ERSC-2024-2\_670 Metacom Avenue Bristol\_Dave Romos\Drawings\ERSC-2024-2\_670 Metacom Avenue Bristol\_Preliminary.dwg, DWG To PDF.pcl3



CONSTRUCTION DETAILS--3



**PRINCIPE COMPANY, INC.**  
ENGINEERING DIVISION  
27 SAKONNET RIDGE DRIVE  
TIVERTON, RI 02878  
401.816.5385  
WWW.PRINCIPECOMPANY.COM

REVISIONS			
No.	DATE	DRWN	CHKD

PRELIMINARY SUBMISSION  
for  
668 & 670 METACOM AVENUE  
AP 128 LOTS 15 & 16  
in  
BRISTOL, RHODE ISLAND

SCALE: AS NOTED	SHEET NO: 10 of 10	
DRAWN BY: KAB	DESIGN BY: KAB	CHECKED BY: TJP
DATE: 08/08/2025	PROJECT NO.: ERSC-2024-2	