

# VETERAN'S PARK PEDESTRIAN ENTRY

## IN

### PLYMOUTH, MASSACHUSETTS

#### (Plymouth County)

#### **OWNER**

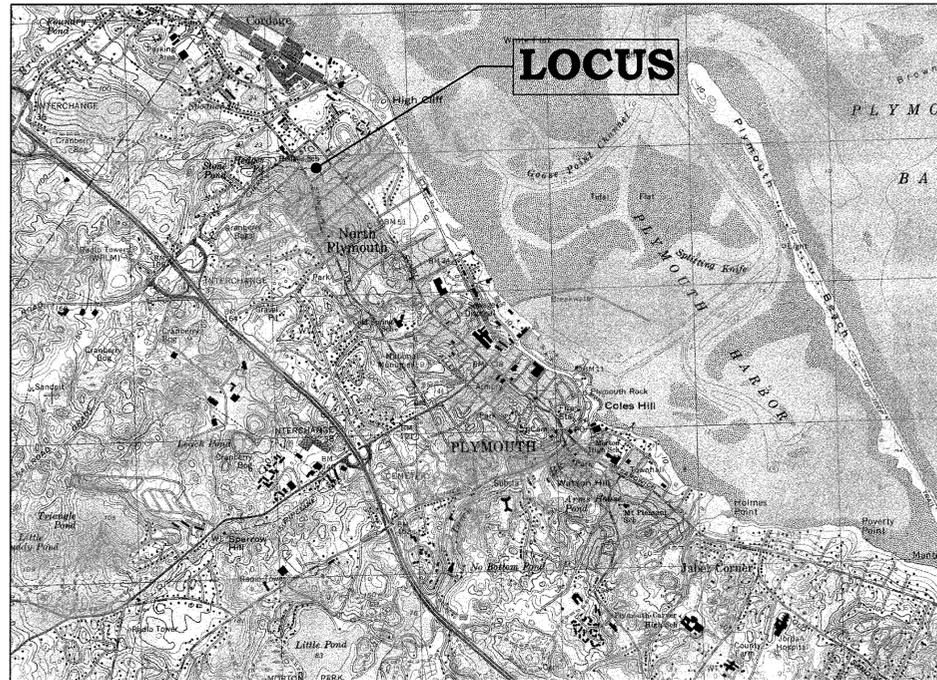
Town of Plymouth  
11 Lincoln Street  
Plymouth, Massachusetts 02360

#### **LANDSCAPE ARCHITECT**

Beals and Thomas, Inc.  
32 Court Street  
Plymouth, Massachusetts 02360

#### **ELECTRICAL ENGINEER**

Power Engineers, LLC  
37 Fox Den Road  
Kingston, Massachusetts 02364



**Locus Map**  
Scale: 1" = 2000'



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Issued for Bidding - May 20, 2015

Revised - July 2, 2015

Job No.: 2502.00  
Plan No.: 250200P005B-001  
Sheet 1 of 11

**GENERAL NOTES**

THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND ARCHITECT AS REQUIRED.

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

LIMIT OF WORK SHALL BE EROSION CONTROL BARRIERS, LIMIT OF GRADING AND SITE PROPERTY LINES AND/OR AS INDICATED ON DRAWINGS.

PORTIONS OF THE ROADWAY, SIDEWALK AND ROADSIDE AREA DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR CONDITIONS PRIOR TO DISTURBANCE.

CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND ELEVATIONS IN THE FIELD PRIOR TO COMMENCING WORK.

ANY ALTERATION TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS.

ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.

EXISTING TREES AND SHRUBS OUTSIDE THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON PRIOR APPROVAL OF THE OWNER.

FOR DRAWING LEGIBILITY, ALL EXISTING TOPOGRAPHIC FEATURES, EXISTING UTILITIES, PROPERTY BOUNDARIES, EASEMENTS, ETC. MAY NOT BE SHOWN ON ALL DRAWINGS. REFER TO ALL REFERENCED DRAWINGS AND OTHER DRAWINGS IN THIS SET FOR ADDITIONAL INFORMATION.

NEW EXCAVATION AND TRENCH SAFETY REGULATIONS ARE IN EFFECT AS OF MARCH 1, 2015. (REFER TO 520 CMR 14.00) ALL EXCAVATORS OR CONTRACTORS MUST OBTAIN A TRENCH PERMIT PRIOR TO ANY CONSTRUCTION RELATED TRENCHES ON SITE.

**LAYOUT AND MATERIALS NOTES**

ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.

PROTECT EXISTING PROPERTY MONUMENTS AND ADJUTING PROPERTIES DURING CONSTRUCTION ACTIVITIES.

**GRADING, DRAINAGE AND UTILITY NOTES**

BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-344-7233 TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE.

ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS DATED XX/XX/XX PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.

AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT, CURBS AND EARTHWORK SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS. PITCH EVENLY BETWEEN SPOT GRADES. GRADE ALL AREAS TO DRAIN.

THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER AND ENGINEER FOR RESOLUTION.

INSTALL ALL UTILITIES (INCLUDING CONCRETE PADS) PER UTILITY COMPANY AND DPW STANDARDS.

CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION.

EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1/8" PER FOOT UNLESS SPECIFIED. ANY DISCREPANCIES NOT ALLOWING THIS MINIMUM PITCH SHALL BE REPORTED TO THE ENGINEER PRIOR TO CONTINUING WORK.

THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PUDDING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN PONDING PRIOR TO APPLICATION OF THE FINISH SUBGRADE AND/OR SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE AS REQUIRED.

UNLESS OTHERWISE INDICATED, ABANDONED EXISTING UTILITY LINES SHALL BE CAPPED AND ABANDONED IN PLACE UNLESS THEY CONFLICT WITH PROPOSED IMPROVEMENTS. CAP REMAINING PORTIONS WHERE PARTIALLY REMOVED.

**PLANTING AND LIGHTING NOTES**

ALL PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.

ANY PROPOSED SUBSTITUTIONS OF PLANT MATERIAL SHALL BE MADE WITH MATERIAL EQUIVALENT TO THE DESIRED MATERIAL IN OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE. PROPOSED SUBSTITUTIONS WILL ONLY BE CONSIDERED IF SUBMITTED WITH ENUMERATED REASONS WHY SUBSTITUTIONS ARE PROPOSED.

ALL PLANTING BEDS TO BE FILLED WITH SOIL AND CROWNED ABOVE ADJACENT LAWN OR IMPROVED AREAS.

PLANT MATERIALS SHALL BEAR SAME RELATIONSHIP TO GRADE AS THEY BORE TO GRADE IN THE NURSERY.

ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.

LOAM AND SEED ALL DISTURBED AREAS UNLESS OTHERWISE INDICATED.

THE LANDSCAPE CONTRACTOR SHALL FURNISH TOPSOIL. TOPSOIL SHALL BE FERTILE, FRIABLE, NATURAL AND PRODUCTIVE TOPSOIL OF GOOD CLAY-LOAM TYPE. IT SHALL BE FREE OF WEED SEEDS. TOPSOIL SHALL BE WITHOUT ADMIXTURE OF SUBSOIL AND SHALL BE REASONABLY FREE OF STONES, LUMPS, ROOTS, STICKS AND OTHER FOREIGN MATTER. TOPSOIL SHALL NOT BE WORKED OR APPLIED IN A MUDDY OR WET CONDITION.

TOPSOIL SHALL BE SPREAD TO A MINIMUM DEPTH OF FOUR (4) INCHES AFTER SETTING ON ALL STRIPPED PLANTED AREAS INCLUDING SLOPE STABILIZATION. LAWN AREAS AND PLANTING BEDS AFTER FILLS ARE PROPERLY SETTLED AND SUBGRADE HAS BEEN APPROVED BY THE OWNER. THE SETTLED TOPSOIL SHALL BE UP TO THE FINISHED GRADE AS CALLED FOR ON THE DRAWINGS. SCARIFY SUBGRADE TO A DEPTH OF TWO (2) INCHES BEFORE PLACING TOPSOIL.

REMOVE ALL ROCKS AND DEBRIS FROM SOIL SURFACE AND GRADE TO AN EVEN SURFACE.

SPREAD 10-10-10 FERTILIZER AT A RATE OF TWENTY-TWO (22) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET AND INCORPORATE INTO THE SOIL UNIFORMLY.

PLANTING SEED SHALL BE SOWN IN SEASONAL CONDITIONS AS APPROPRIATE FOR GOOD SEED SURVIVAL, OR AT SUCH TIMES AS APPROVED BY THE OWNER. PROVIDE SUFFICIENT HOSE AND SPRINKLER HEADS FOR ADEQUATE WATERING TO MAINTAIN A MOIST SEED BED AT ALL TIMES.

PLANTING SEED SHALL BE SOWN EVENLY WITH MECHANICAL SPREADER OR BY HAND AT THE RATE OF SIX (6) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET. ALL SEEDING SHALL BE DONE ON DAYS WHEN THE WIND DOES NOT EXCEED A VELOCITY OF FIVE (5) MILES PER HOUR AND THE SEED SHALL BE DRY.

STRAW MULCH SHALL BE SPREAD UNIFORMLY OVER ALL SEEDED AREAS AT THE RATE OF TWO (2) BALES PER ONE THOUSAND (1,000) SQUARE FEET.

WATER, MULCH AND SEED BED THOROUGHLY AND IMMEDIATELY AFTER COMPLETION OF MULCHING. SOIL SHALL BE MOISTENED TO A DEPTH OF FOUR (4) INCHES. CONTRACTOR SHALL INSTRUCT OWNER'S REPRESENTATIVE ON APPROPRIATE WATERING PROCEDURES DURING INITIAL ESTABLISHMENT.

PROTECT NEWLY TOPSOILED, GRADED AND/OR SEEDED AREAS FROM TRAFFIC AND EROSION. KEEP AREAS FREE OF TRASH AND DEBRIS RESULTING FROM LANDSCAPE CONTRACTOR OPERATIONS.

PLACE WARNING SIGNS IN SEEDED AREAS AND ERECT NECESSARY BARRICADES TO PREVENT DAMAGE BY PERSONS OR MACHINES AND MAINTAIN THESE FOR AT LEAST THIRTY (30) DAYS.

THE LANDSCAPE CONTRACTOR IS TO CLEAN UP AND REMOVE ANY DEBRIS FROM THE SITE CAUSED BY THE LANDSCAPE CONTRACTOR.

PLANT MATERIAL IS TO BE MAINTAINED BY THE LANDSCAPE CONTRACTOR WHILE THE PROJECT IS UNDERWAY.

**IRRIGATION NOTES**

COORDINATE FINAL LOCATION OF ALL SPRINKLERS AND NOZZLE SELECTION W/ FINAL APPROVED INFIELD LAYOUT

ALL PIPE AND VALVE LOCATIONS ARE DIAGRAMMATIC, CONTRACTOR SHALL FIELD VERIFY.

ALL VALVES AND VALVE BOXES SHALL BE PLACED, AWAY FROM PLAYING SURFACE.

ALL CONTROL WIRE SHALL BE #14 GAUGE SINGLE STRAND, RED FOR TURF ZONES AND COMMON WIRE SHALL BE #14 GAUGE SINGLE STRAND WHITE.

ALL LARGE ROTARY SPRINKLERS SHALL BE INSTALLED ON 1-INCH PVC PREFABRICATED UNITIZED SWING JOINT ASSEMBLIES WITH INTEGRAL O-RINGS.

IRRIGATION SYSTEM IS DESIGNED FOR A SEPARATE WATER SUPPLY TO PROVIDE 18 GPM MAX FROM EXISTING 2-INCH SERVICE. SYSTEM TO PRODUCE 75-PSI DYNAMIC PRESSURE AT IRRIGATION CONTRACTORS POINT OF CONNECTION AT THE EXISTING WATER VALVE.

CONTRACTOR SHALL TEST DYNAMIC PRESSURE BEFORE STARTING WORK, REPORT ANY DEVIATION FROM PRESSURE REQUIRED TO OWNER'S REPRESENTATIVE BEFORE CONTINUING.

INSTALL BATTERY OPERATED CONTROLLER IN THE VALVE BOX, GENERALLY WHERE SHOWN ON THE DRAWINGS.

CONTRACTOR MUST SUBMIT SHOP DRAWINGS PRODUCT SUBMITTALS AS PER THE WRITTEN SPECIFICATIONS TO THE IRRIGATION CONSULTANT FOR APPROVAL PRIOR TO ORDERING MATERIAL AND BEGINNING WORK.

ANY AND ALL MATERIAL SUBSTITUTIONS WHICH VARY FROM THE SPECIFIED PRODUCTS MUST BE SUBMITTED TO THE IRRIGATION CONSULTANT FOR APPROVAL AS PART OF THE SUBMITTAL PROCESS.

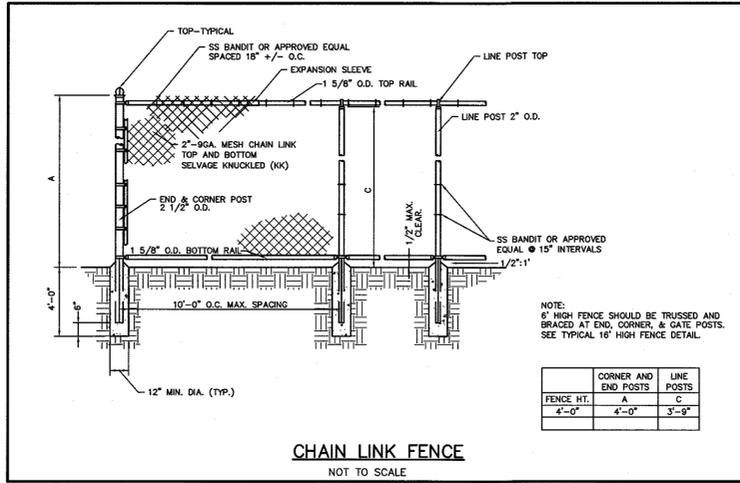
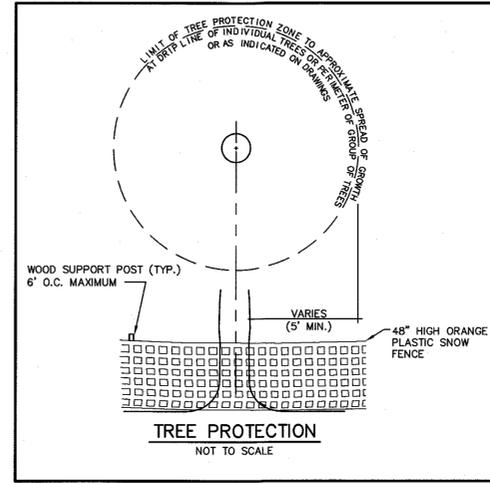
ONCE APPROVED SUBMITTALS HAVE BEEN RETURNED TO THE CONTRACTOR, WORK MAY BEGIN. THE IRRIGATION CONSULTANT MUST BE NOTIFIED A MINIMUM OF 7-DAYS IN ADVANCE OF THE START OF WORK TO COORDINATE ON-SITE SUPERVISION AND ADMINISTRATION.

SEE IRRIGATION DETAILS AND SPECIFICATIONS SECTION FOR ADDITIONAL NECESSARY INFORMATION.

**REFERENCES:**

EXISTING CONDITIONS INFORMATION IS FROM A PLAN TITLED "EXISTING CONDITIONS PLAN" PREPARED FOR TOWN OF PLYMOUTH, DATED JULY 12, 2014 PREPARED BY FLAHERTY & STEFAN, INC.

IRRIGATION LEGEND			
SYMBOL	PSI	SPACING	DESCRIPTION
	60	45'	ROTARY SPRINKLER WITH CHECK VALVE (STANDARD NOZZLES)
			ELECTRIC ZONE VALVE WITH BATTERY OPERATED CONTROLLER (SEE VALVE DESIGNATOR FOR FLOW AND SIZES)
			ISOLATION GATE VALVE (1-1/2 IN SIZE)
			QUICK COUPLING VALVE (EXISTING AND TO REMAIN)
			GLASS-200 PVC LATERAL PIPING (PIPE TO BE 1-1/2 INCH IN SIZE)
			GLASS-200 PVC MAINLINE PIPING (PIPE TO BE 1-1/2 INCH IN SIZE)
			TYPE 'K' COPPER MAINLINE PIPING (PIPE TO BE 1-1/2 INCH IN SIZE)
			BATTERY OPERATED AUTOMATIC CONTROLLER
			IRRIGATION WATER METER (1-INCH IN SIZE)
			BACK FLOW PREVENTION DEVICE (1-INCH IN SIZE)
VALVE DESIGNATION:			
		STATION NO.	
		FLOW	
		VALVE SIZE	



**CHAIN LINK FENCE**  
NOT TO SCALE

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PREPARED FOR:

**TOWN OF PLYMOUTH**  
11 LINCOLN STREET  
PLYMOUTH, MASSACHUSETTS

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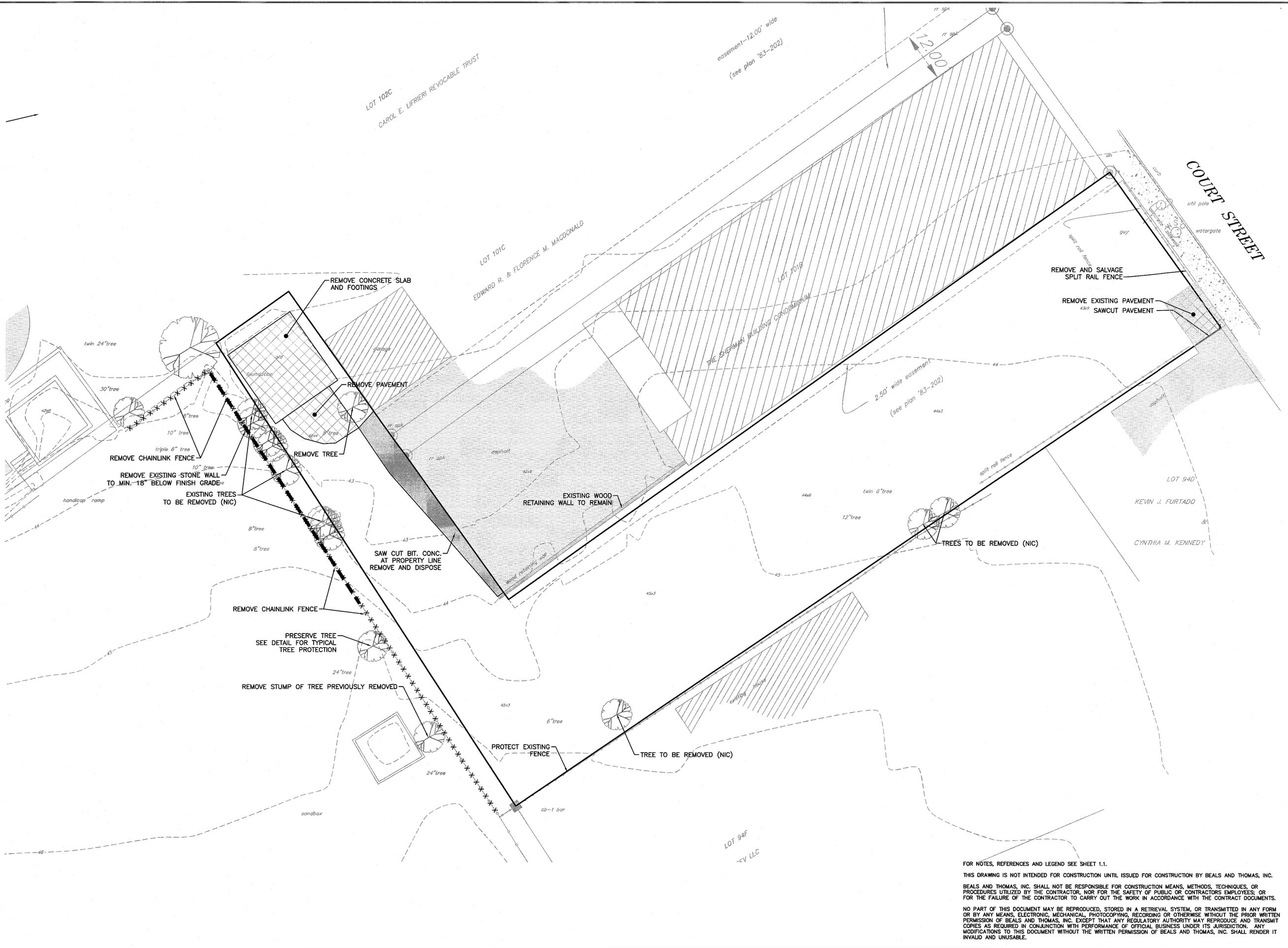
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PROJECT:  
**VETERAN'S PARK PEDESTRIAN ENTRY**  
PLYMOUTH, MASSACHUSETTS

SCALE: DATE: MAY 20, 2015

**NOTES, REFERENCES AND LEGEND**

B+T JOB NO.2502.00  
B+T PLAN NO. 250200P005B-001  
**C1.1**



PREPARED FOR:

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 PLYMOUTH,  
 MASSACHUSETTS

SCALE: 1" = 10' DATE: MAY 20, 2015

METERS  
 0 2.5 5 7.5 10  
 FEET  
 0 5 10 20 30

**SITE PREPARATION**

B+T JOB NO.2502.00

B+T PLAN NO.  
 250200P004B-001

**C2.1**

FOR NOTES, REFERENCES AND LEGEND SEE SHEET 1.1.

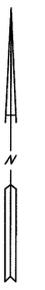
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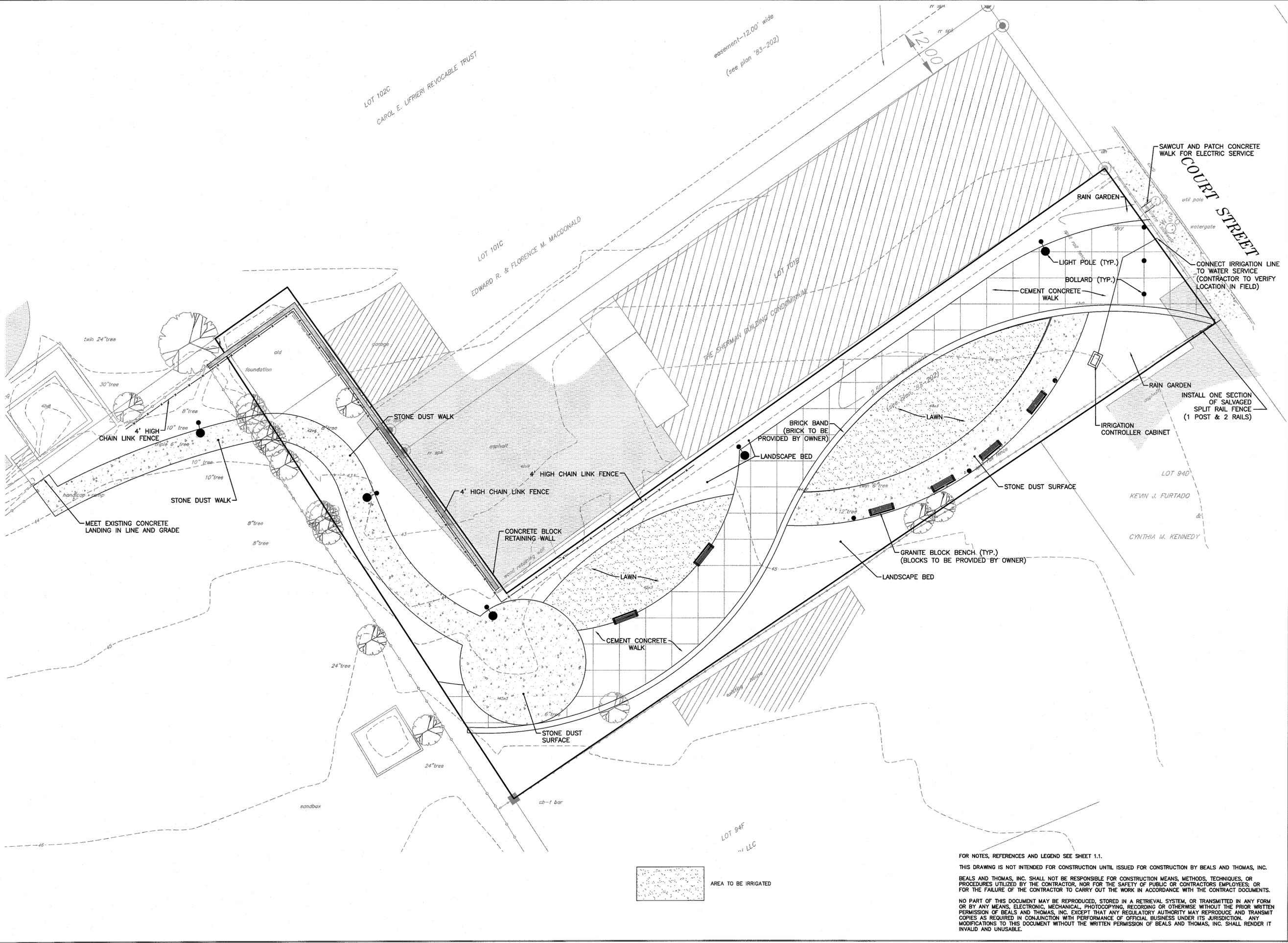
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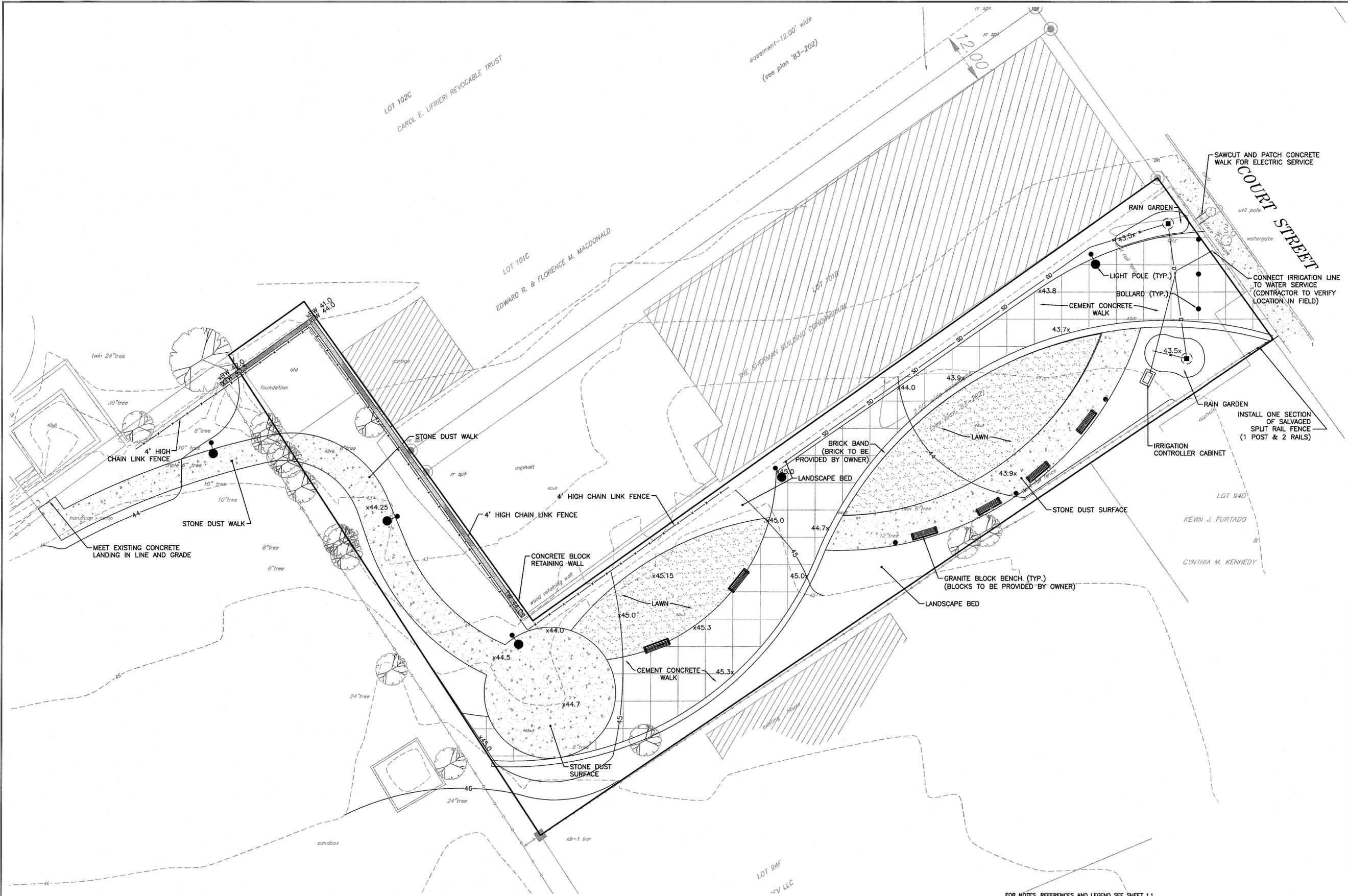
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SCALE: 1" = 10'  
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METERS 0 2.5 5 7.5  
FEET 0 5 10 20 30

## LAYOUT AND MATERIALS PLAN

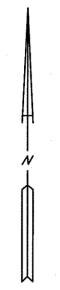
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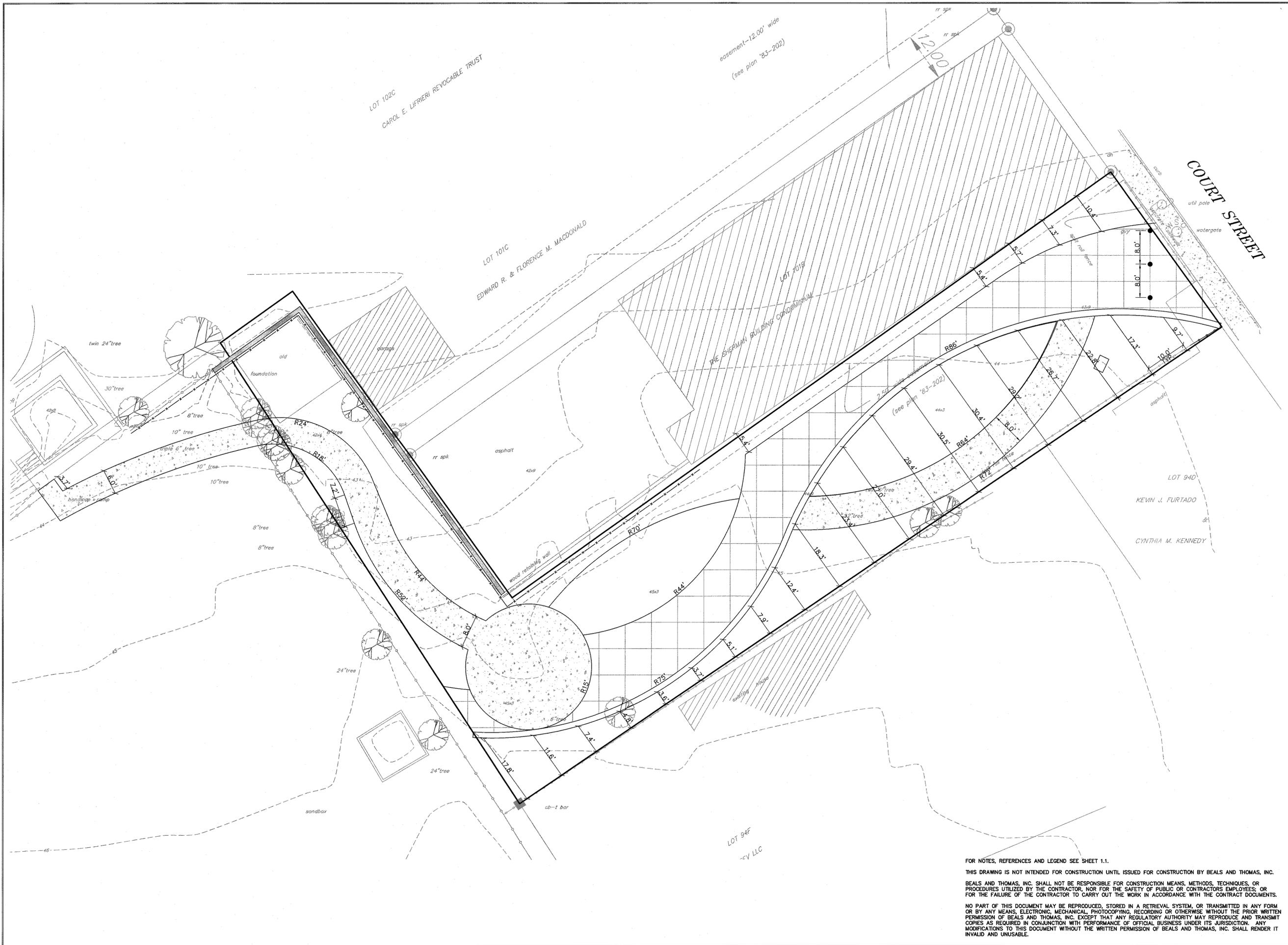
**GRADING, DRAINAGE  
 AND UTILITIES PLAN**

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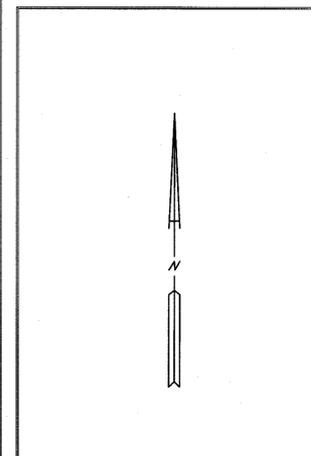
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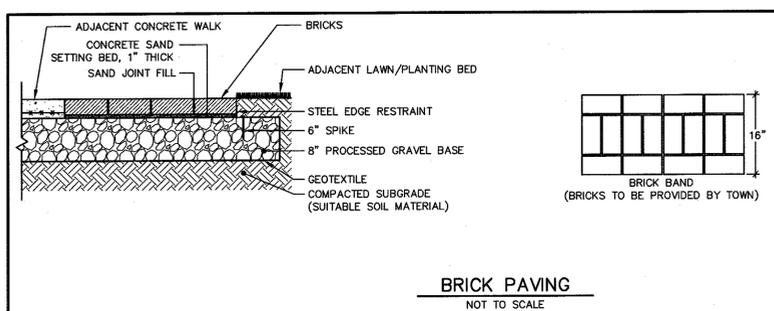
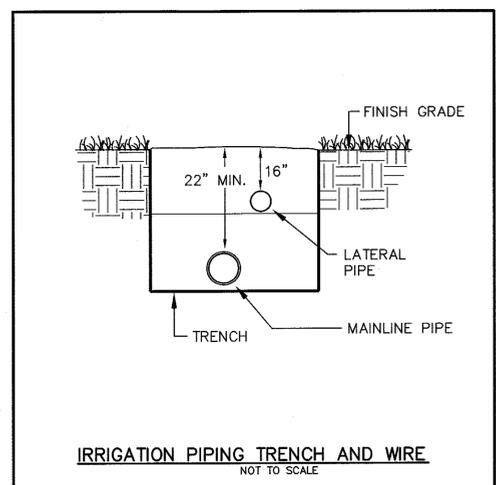
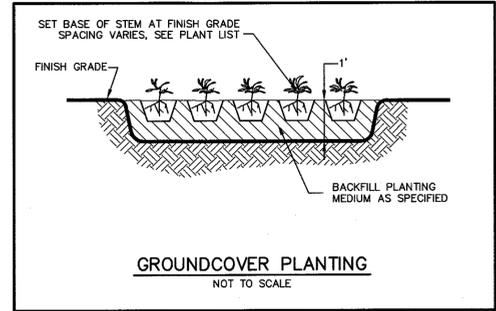
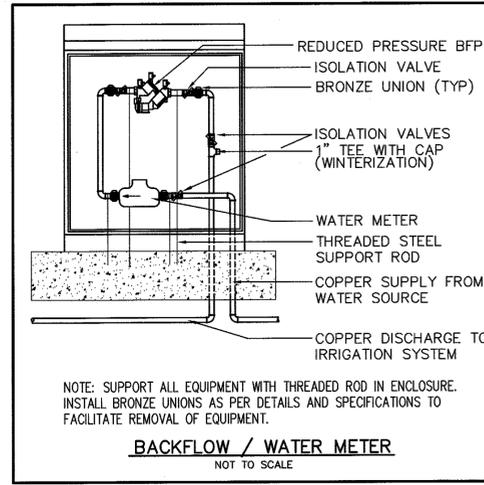
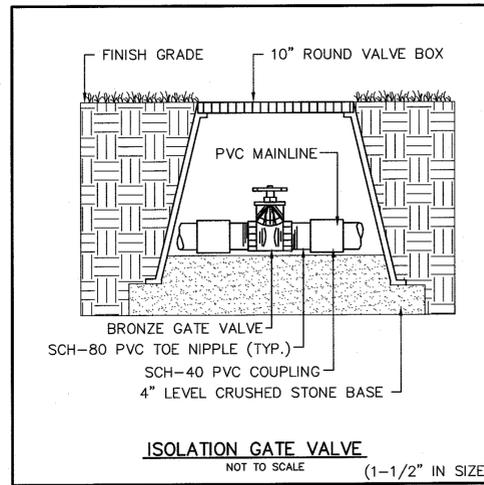
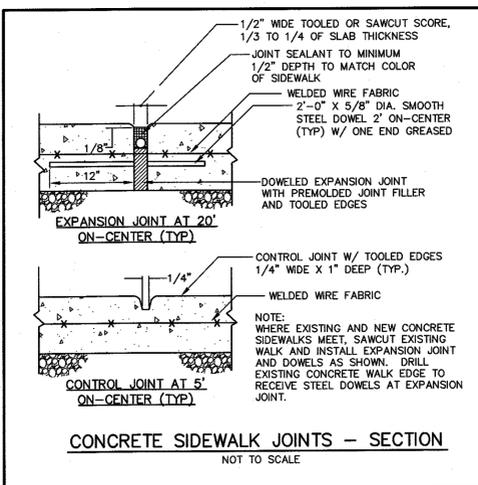
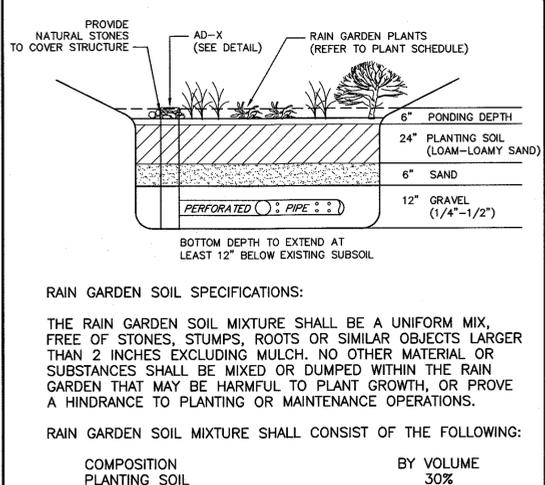
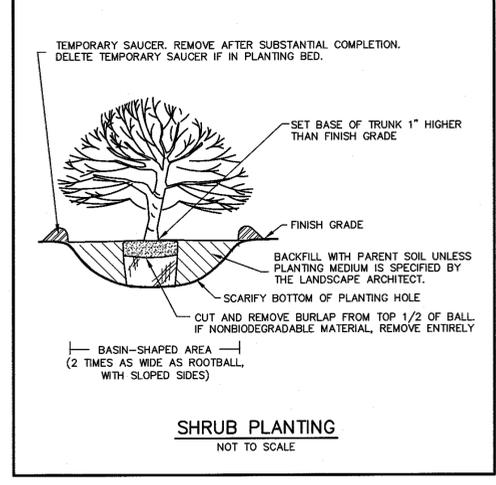
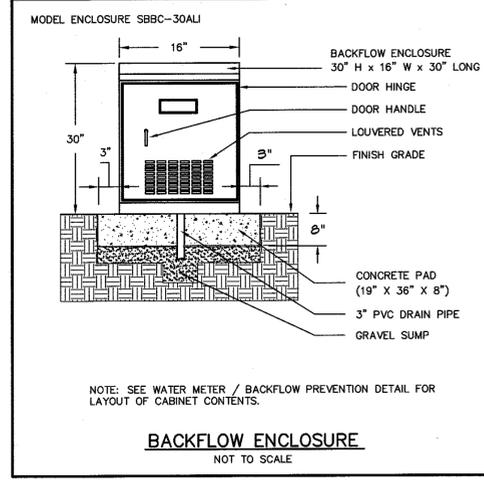
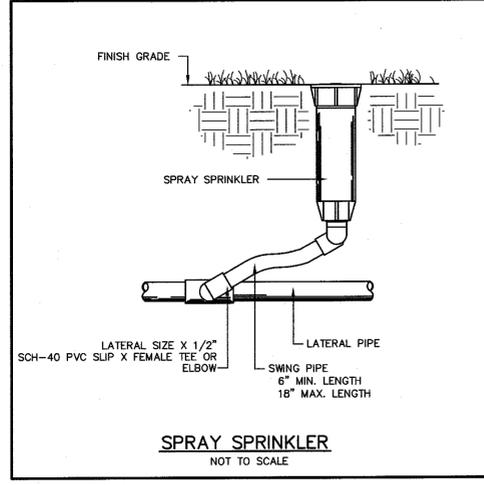
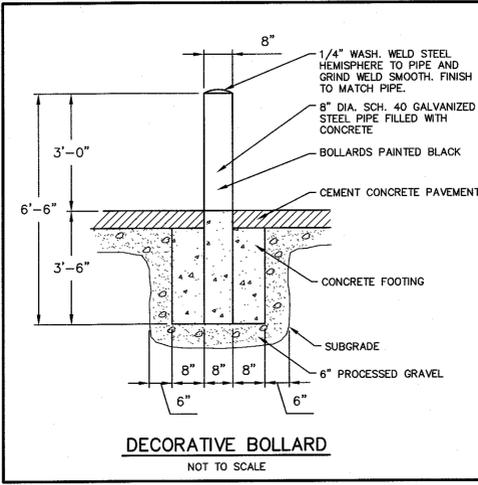
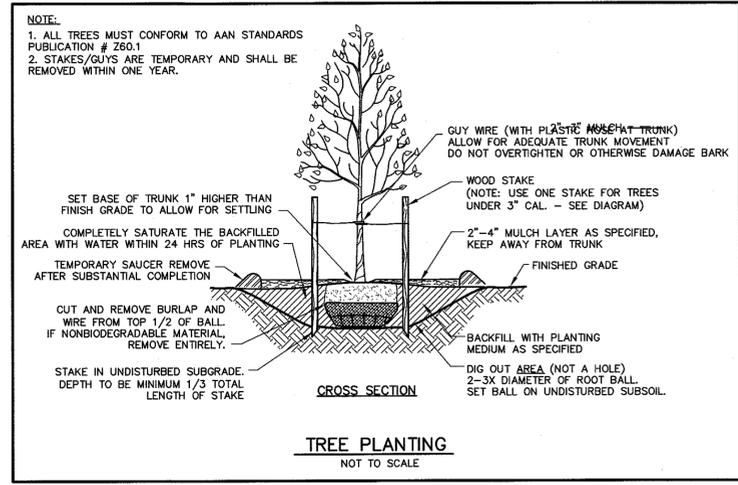
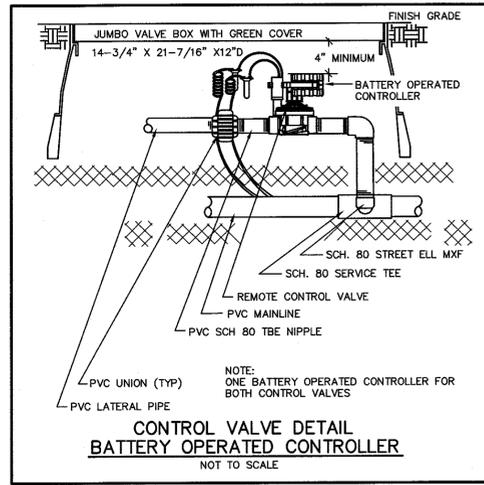
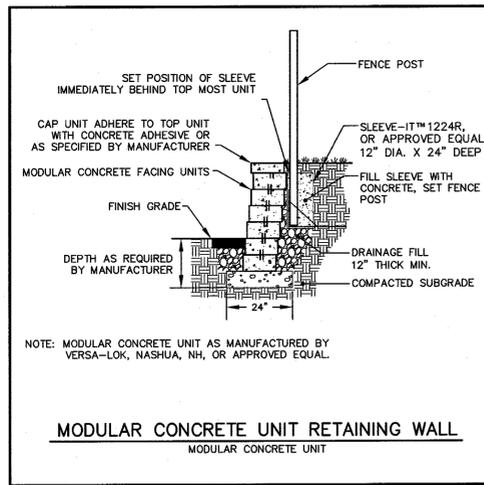
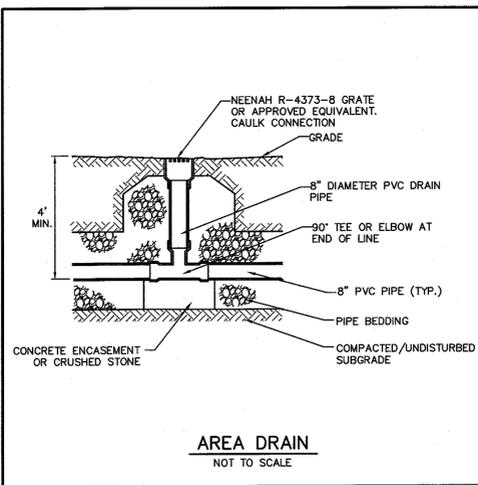
PROJECT:  
**VETERAN'S PARK  
PEDESTRIAN ENTRY**  
PLYMOUTH,  
MASSACHUSETTS

SCALE: 1" = 10' DATE: MAY 20, 2015  
METERS  
0 2.5 5 7.5  
FEET  
0 5 10 20 30

**CONSTRUCTION  
LAYOUT PLAN**

B+T JOB NO. 2502.00  
B+T PLAN NO.  
250200P0048-001 **C6.1**

FOR NOTES, REFERENCES AND LEGEND SEE SHEET 1.1.  
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PREPARED FOR:

**TOWN OF PLYMOUTH**  
11 LINCOLN STREET  
PLYMOUTH, MASSACHUSETTS

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PREPARED BY:  
**BEALS + THOMAS**  
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Land Surveyors + Planners +  
Environmental Specialists

BEALS AND THOMAS, INC.  
32 Court Street  
Plymouth, Massachusetts 02360-3866  
T 508.746.3288 | www.btiweb.com

NO.	DATE	DESCRIPTION	
5			
4			
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2			
1	7/2/2015	REVISED	
0	5/20/2015	ISSUED FOR BIDDING	
	ISSUE DATE	DESCRIPTION	
DES	DWN	CHK'D	APP'D

PROJECT:  
**VETERAN'S PARK PEDESTRIAN ENTRY**  
PLYMOUTH, MASSACHUSETTS

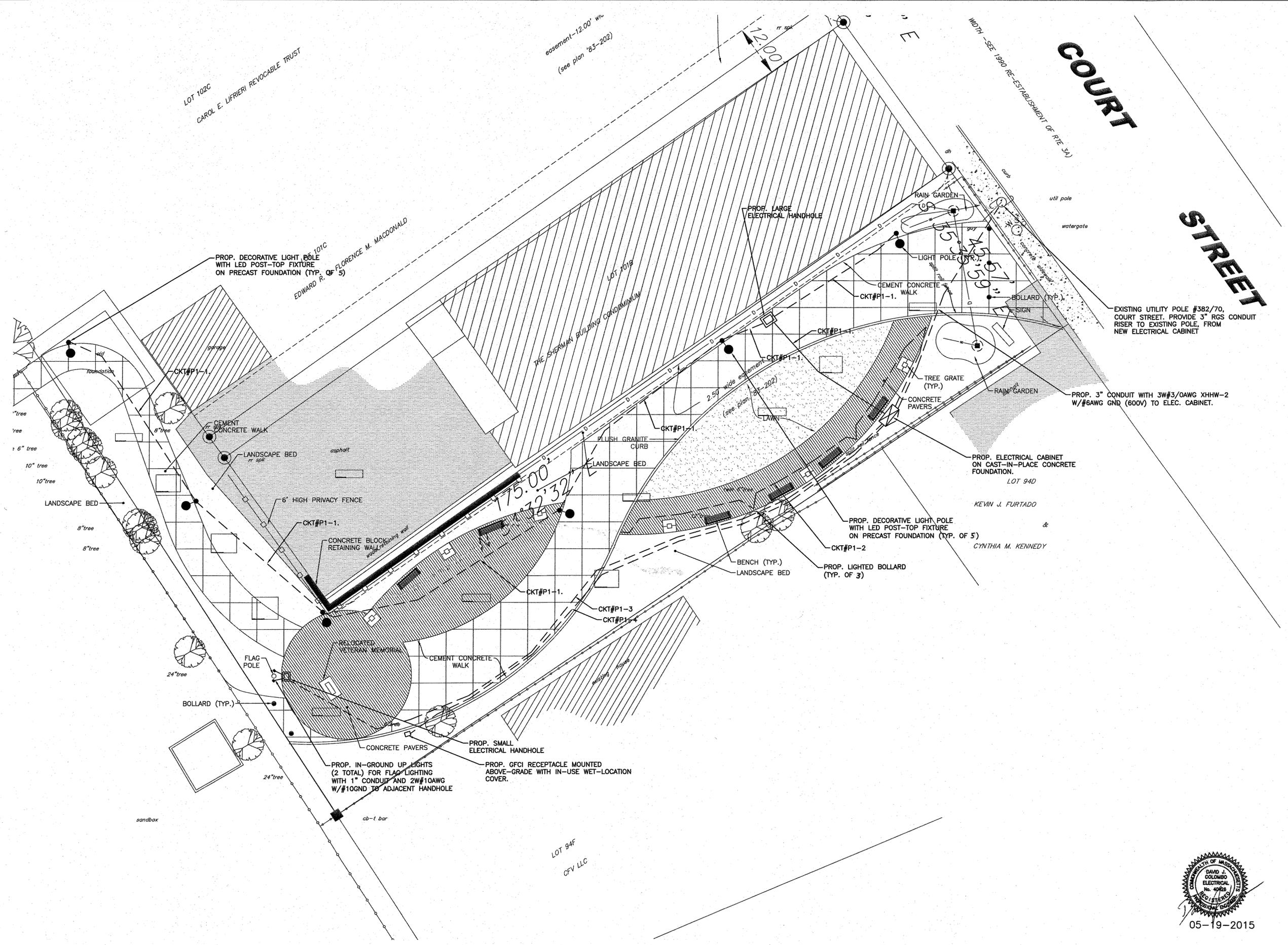
SCALE: AS SHOWN DATE: MAY 20, 2015

**SITE DETAILS**

B+T JOB NO.2502.00  
B+T PLAN NO. 250200P005B-001

**C7.1**

FOR NOTES, REFERENCES AND LEGEND SEE SHEET C1-1.  
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LOT 102C  
CAROL E. LIFRIERI REVOCABLE TRUST

easement-12.00' w/c  
(see plan '83-202)

WIDTH-SEE 1990 RE-ESTABLISHMENT OF RFE 3A)

**COURT STREET**

PROP. DECORATIVE LIGHT POLE WITH LED POST-TOP FIXTURE ON PRECAST FOUNDATION (TYP. OF 5)

EDWARD R. FLORENCE M. MACDONALD

LOT 101B  
THE SHERMAN BUILDING CONDOMINIUM

PROP. LARGE ELECTRICAL HANDHOLE

EXISTING UTILITY POLE #382/70, COURT STREET. PROVIDE 3\"/>

PROP. 3\"/>

PROP. ELECTRICAL CABINET ON CAST-IN-PLACE CONCRETE FOUNDATION.

KEVIN J. FURTADO

PROP. DECORATIVE LIGHT POLE WITH LED POST-TOP FIXTURE ON PRECAST FOUNDATION (TYP. OF 5)

CYNTHIA M. KENNEDY

PROP. LIGHTED BOLLARD (TYP. OF 3)

PROP. IN-GROUND UP LIGHTS (2 TOTAL) FOR FLAG LIGHTING WITH 1\"/>

PROP. GFCI RECEPTACLE MOUNTED ABOVE-GRADE WITH IN-USE WET-LOCATION COVER.



05-19-2015

PREPARED FOR:  
  
TOWN OF PLYMOUTH  
11 LINCOLN STREET  
PLYMOUTH, MASSACHUSETTS

POWER ENGINEERS, LLC  
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Southborough, Massachusetts 01772  
Tel.: 508-366-0560  
Fax: 508-366-4391  
(email) mail@btiweb.com  
(website) http://www.btiweb.com

5			
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1	05/19/2015 ISSUED FOR CONSTRUCTION		
0	04/10/2015 ISSUED FOR REVIEW		
ISSUE DATE	DESCRIPTION		
DES	DWN	CHK'D	APP'D

PROJECT:  
VETERAN'S FIELD PEDESTRIAN ENTRY  
PLYMOUTH, MASSACHUSETTS

SCALE: 1"=10'-0" DATE: MAY 19, 2015  
METERS 0 2.5 5 7.5 30  
FEET 0 5 10 20 30

**ELECTRICAL PLAN**

B+T JOB NO.  
B+T PLAN NO. **E-1**

**ELECTRICAL NOTES:**

- ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE LATEST APPLICABLE STANDARDS OF ANSI, NEMA, UL, NFPA-70, AND THE MASSACHUSETTS ELECTRICAL CODE WITH REGARDS TO MATERIAL, DESIGN, AND CONSTRUCTION.
- THIS DRAWING IS FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS, DEVICES, MATERIALS, AND EQUIPMENT, PRIOR TO THE START OF ANY WORK.
- CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE, AT LEAST 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION.
- PVC CONDUIT AND FITTINGS SHALL CONFORM TO ANSINEMA SPECIFICATIONS, TC-2, TC-3 AND UL-651.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY INSPECTIONS AND COORDINATE ALL WORK WITH THE OWNER AND THE CITY OF WORCESTER. TRENCHES SHALL BE INSPECTED PRIOR TO BACKFILLING.
- LOCATIONS OF ALL UTILITIES ARE APPROXIMATE AND ARE PROVIDED FOR INFORMATION ONLY.
- CONTRACTOR TO BALANCE THE NUMBER OF LIGHTING FIXTURES ON EACH CIRCUIT
- CONTRACTOR TO LOCATE ALL ELECTRICAL EQUIPMENT AS DIRECTED BY THE OWNER, ARCHITECT & ENGINEER.

LEGEND OF FEEDER SIZES -- COPPER CONDUCTORS					
FEEDER SYMBOL	CONDUCTORS (3 PHASE, 3 WIRES WITH GROUND)	MINIMUM RACEWAY SIZE	CONDUCTORS (3 PHASE, 4 WIRES WITH GROUND)	MINIMUM RACEWAY SIZE	MINIMUM AMPERE RATING
①	3-6 AWG & 1-10 AWG GND.	3/4"	4-6 AWG & 1-10 AWG GND.	1"	60
②	3-4 AWG & 1-8 AWG GND.	1"	4-4 AWG & 1-8 AWG GND.	1 1/4"	70
③	3-1 AWG & 1-6 AWG GND.	1 1/4"	4-1 AWG & 1-6 AWG GND.	1 1/2"	100
④	3-1 AWG & 1-6 AWG GND.	1 1/2"	4-1 AWG & 1-6 AWG GND.	2"	125
⑤	3-1/2 AWG & 1-6 AWG GND.	1 1/2"	4-1/2 AWG & 1-6 AWG GND.	2"	150
⑥	3-2/0 AWG & 1-6 AWG GND.	2"	4-2/0 AWG & 1-6 AWG GND.	2"	175
⑦	3-3/0 AWG & 1-6 AWG GND.	2"	4-3/0 AWG & 1-6 AWG GND.	2"	200
⑧	3-4/0 AWG & 1-6 AWG GND.	2"	4-4/0 AWG & 1-6 AWG GND.	2 1/2"	225
⑨	3-250 KCMIL & 1-4 AWG GND.	2 1/2"	4-250 KCMIL & 1-4 AWG GND.	3"	250
⑩	3-350 KCMIL & 1-4 AWG GND.	3"	4-350 KCMIL & 1-4 AWG GND.	3"	300
⑪	3-500 KCMIL & 1-3 AWG GND.	3"	4-500 KCMIL & 1-3 AWG GND.	4"	350
⑫	3-600 KCMIL & 1-3 AWG GND.	3"	4-600 KCMIL & 1-3 AWG GND.	4"	400
⑬	6-250 KCMIL & 2-2 AWG GND.	2-2 1/2"	8-250 KCMIL & 2-2 AWG GND.	2-3"	500
⑭	6-350 KCMIL & 2-1 AWG GND.	2-3"	8-350 KCMIL & 2-1 AWG GND.	2-3 1/2"	600
⑮	6-500 KCMIL & 2-1/0 AWG GND.	2-3 1/2"	8-500 KCMIL & 2-1/0 AWG GND.	2-4"	800
⑯	6-600 KCMIL & 3-2/0 AWG GND.	3-3"	12-600 KCMIL & 3-2/0 AWG GND.	3-3 1/2"	1000
⑰	6-600 KCMIL & 3-3/0 AWG GND.	3-3 1/2"	12-600 KCMIL & 3-3/0 AWG GND.	3-3 1/2"	1200
⑱	12-600 KCMIL & 4-4/0 AWG GND.	4-3 1/2"	16-600 KCMIL & 4-4/0 AWG GND.	4-3 1/2"	1600
⑲	15-600 KCMIL & 5-250 KCMIL GND.	5-3 1/2"	20-600 KCMIL & 5-250 KCMIL GND.	5-3 1/2"	2000
⑳	18-600 KCMIL & 6-350 KCMIL GND.	6-3 1/2"	24-600 KCMIL & 6-350 KCMIL GND.	6-3 1/2"	2500
㉑	24-500 KCMIL & 8-400 KCMIL GND.	8-3 1/2"	32-500 KCMIL & 8-400 KCMIL GND.	8-4"	3000
㉒	24-600 KCMIL & 8-500 KCMIL GND.	8-3 1/2"	32-600 KCMIL & 8-500 KCMIL GND.	8-3 1/2"	3200
㉓	27-600 KCMIL & 9-500 KCMIL GND.	9-3 1/2"	36-600 KCMIL & 9-500 KCMIL GND.	9-3 1/2"	3500
㉔	30-600 KCMIL & 10-500 KCMIL GND.	10-3 1/2"	40-600 KCMIL & 10-500 KCMIL GND.	10-3 1/2"	4000

■ DENOTES ADDITIONAL INSULATED/SOLATED GROUND WIRE REQUIRED FOR ALL FEEDERS TO PANELBOARDS SERVING ISOLATED GROUND RECEPTABLES REFER TO ISOLATED GROUNDING DETAIL FOR ADDITIONAL INFORMATION

⊕ DENOTES ADDITIONAL NEUTRAL CONDUCTOR REQUIRED (2000) FOR ALL FEEDERS TO PANELBOARDS

\* DENOTES ADDITIONAL NEUTRAL CONDUCTOR REQUIRED (2000) FOR ALL FEEDERS TO PANELBOARDS

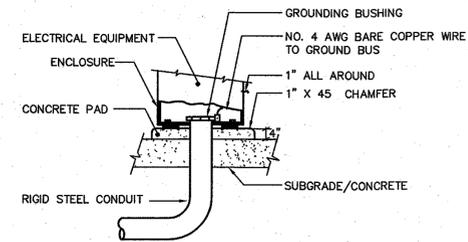
EXAMPLES

■ ② 4-6 AWG, 1-10 AWG GND & 1-10 AWG GND. - 1" CONDUIT

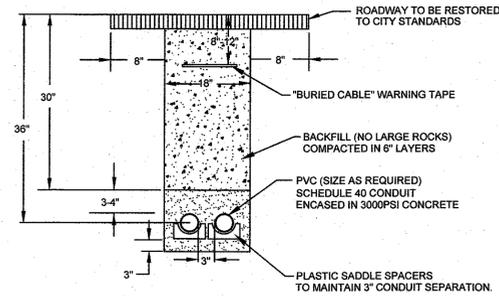
\* ③ 3-6 AWG, 1-1 AWG NEUTRAL & 1-10 AWG GND. - 1 1/2" CONDUIT

BRANCH CIRCUITS SCHEDULE	
120 OR 277 VOLT 1Φ, 2W. CIRCUITS	
CIRCUIT BREAKER	CONDUCTOR
30A-1P	2#12+1#10 GND. - 3/4"
40A-1P	2#8+1#10 GND. - 3/4"
50A-1P	2#6+1#10 GND. - 3/4"
60A-1P	2#4+1#10 GND. - 3/4"
208 VOLT 1Φ, 2W. CIRCUITS	
CIRCUIT BREAKER	CONDUCTOR
20A-2P	2#12+1#12 GND. - 3/4"
30A-2P	2#10+1#10 GND. - 3/4"
40A-2P	2#8+1#10 GND. - 3/4"
50A-2P	2#6+1#10 GND. - 3/4"
60A-2P	2#4+1#10 GND. - 3/4"
208/120 VOLT, 1Φ, 3W CIRCUITS	
CIRCUIT BREAKER	CONDUCTOR
20A-3P	3#12+1#12 GND. - 3/4"
30A-3P	3#10+1#10 GND. - 3/4"
40A-3P	3#8+1#10 GND. - 3/4"
50A-3P	3#6+1#10 GND. - 3/4"
60A-3P	3#4+1#10 GND. - 3/4"
208Y/120 & 480Y/277 VOLT, 3Φ, 3W CIRCUITS	
CIRCUIT BREAKER	CONDUCTOR
20A-3P	4#12+1#12 GND. - 3/4"
30A-3P	4#10+1#10 GND. - 3/4"
40A-3P	4#8+1#10 GND. - 3/4"
50A-3P	4#6+1#10 GND. - 1"
60A-3P	4#4+1#10 GND. - 1"

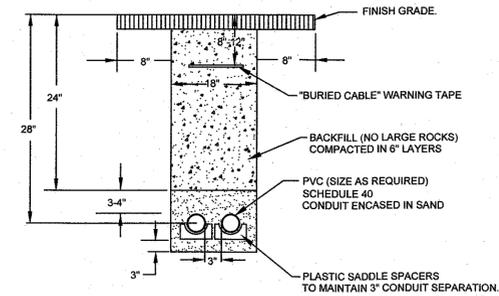
DISTRIBUTION PANEL SCHEDULE - ELEC CABINET PANEL (30CKT MIN.)				
PHASE 1		WIRES: 3	VOLTAGE: 120/240V	MINS: 200A. MAIN C.B.
CIRCUIT	BREAKER	TRIP	DESCRIPTION OF LOAD	REMARKS
M 200	2P	200	MAIN CIRCUIT BREAKER	3W#3/0AWG W/#6GND IN 3" PVC
1 20	2P	20	PATHWAY LIGHTING	3W#4AWG W/#4GND IN 2" PVC
2 20	1P	20	BOLLARD LIGHTING VIA TIME CLOCK	2W#8AWG W/#8GND IN 1" PVC
3 20	1P	30	FLAG POLE LIGHTING VIA TIMECLOCK	2W#10AWG W/#10GND IN 1" PVC
4 20	1P	20	GFCI RECEPTACLE NEAR MONUMENT	2W#10AWG W/#10GND IN 1" PVC
5 20	1P	20	IRRIGATION CONTROLLER	2W#10AWG W/#10GND IN 1" PVC
6 20	1P	20	GFCI IN CABINET & LIGHT	2W-#12 W/GND IN 3/4" EMT
7 20	1P	20	SPARE	
8 20	1P	20	SPARE	
9				
10				



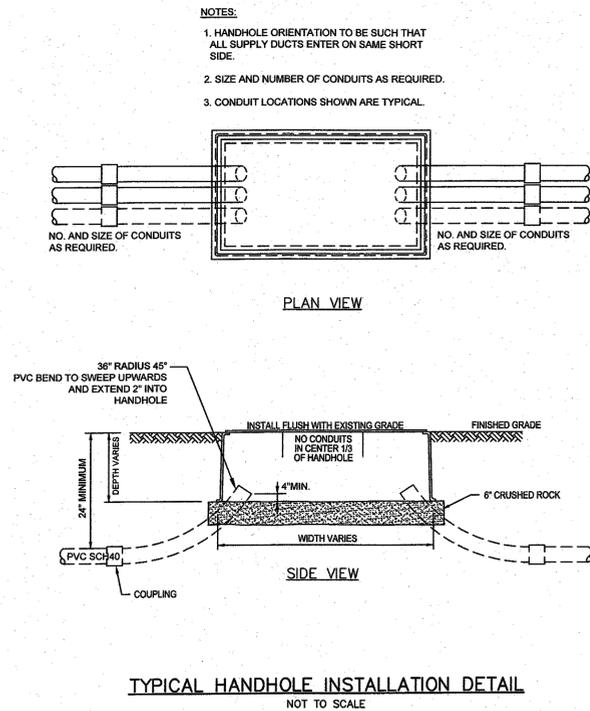
CONDUIT ENTRANCE FROM BELOW  
NOT TO SCALE



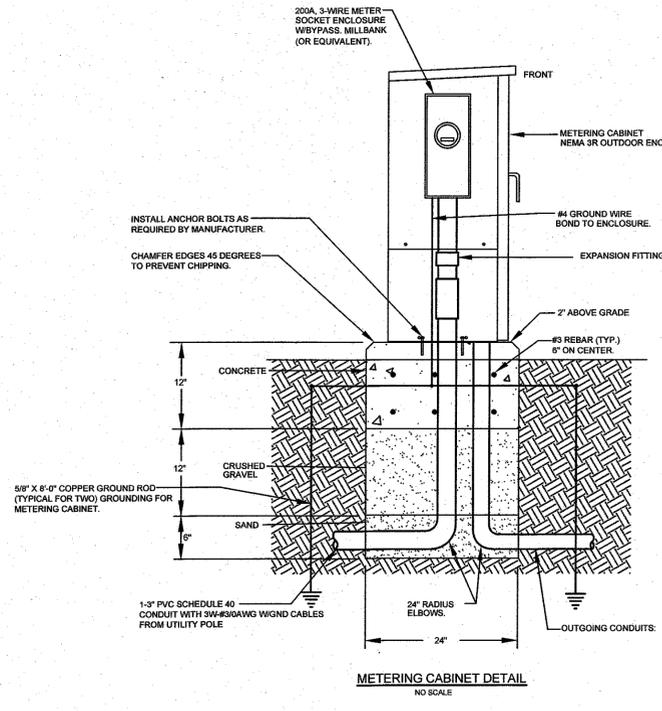
TYPICAL TRENCH SECTION UNDER ROADWAY/PATHWAY  
NO SCALE



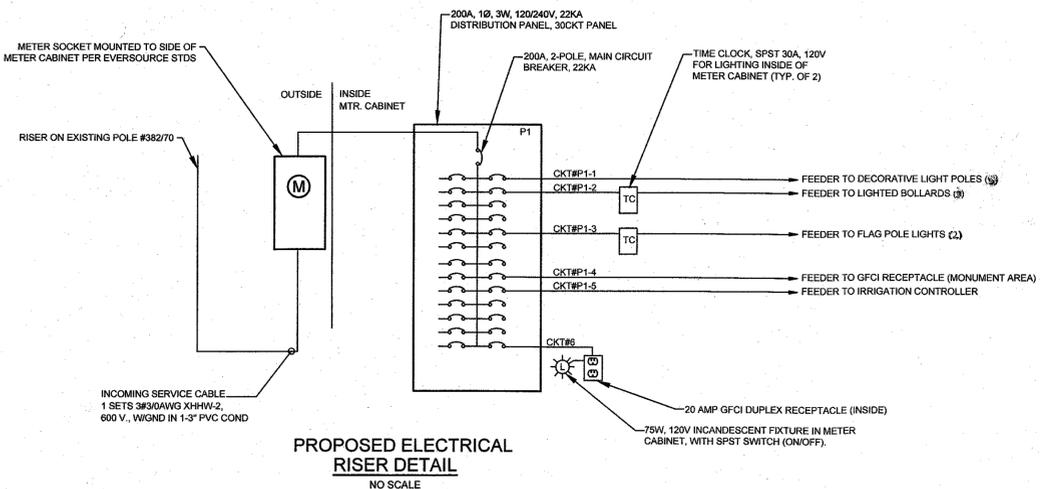
TYPICAL TRENCH SECTION OFF ROADWAY  
NO SCALE



TYPICAL HANDHOLE INSTALLATION DETAIL  
NOT TO SCALE



METERING CABINET DETAIL  
NO SCALE



PROPOSED ELECTRICAL RISER DETAIL  
NO SCALE

PREPARED FOR:

TOWN OF PLYMOUTH  
11 LINCOLN STREET  
PLYMOUTH, MASSACHUSETTS

POWER ENGINEERS, LLC  
37 Fox Den Road  
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Reservoir Corporate Center  
144 Turnpike Road  
Southborough, Massachusetts 01772-2104  
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1	05/19/2015	ISSUED FOR CONSTRUCTION	
0	04/10/2015	ISSUED FOR REVIEW	
	ISSUE DATE	DESCRIPTION	
DES	DWN	CHK'D	APP

PROJECT:  
VETERAN'S FIELD PEDESTRIAN ENTR  
PLYMOUTH, MASSACHUSETTS

SCALE: AS-NOTED DATE: MAY 19, 2015  
METERS  
0 5 10 15  
FEET

ELECTRICAL DETAILS

B+T JOB NO.  
B+T PLAN NO. E-2



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1	05/19/2015	ISSUED FOR CONSTRUCTION
0	04/10/2015	ISSUED FOR REVIEW
	ISSUE DATE	DESCRIPTION
DES	DWN	CHK'D
		APP

PROJECT:  
VETERAN'S FIELD  
PEDESTRIAN ENTR  
PLYMOUTH,  
MASSACHUSETTS

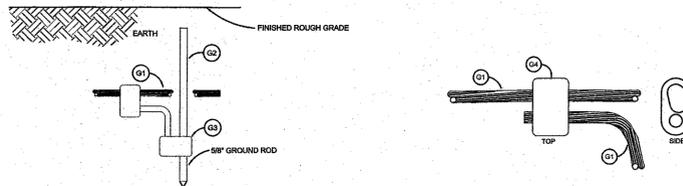
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FEET  
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**ELECTRICAL  
DETAILS**

B+T JOB NO.  
B+T PLAN NO. **E-3**

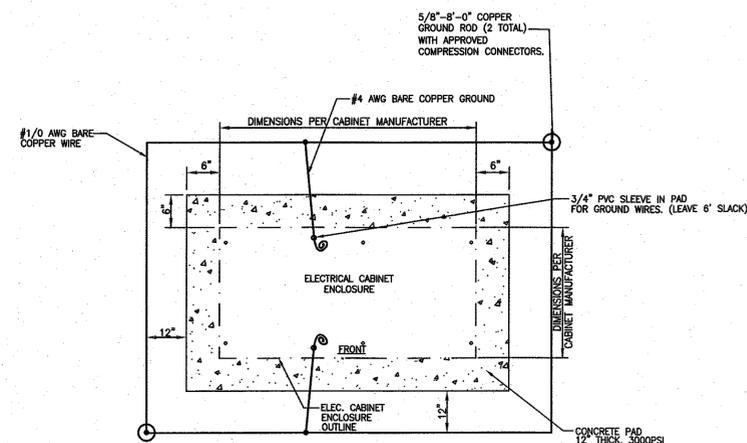
SYMBOL	DESCRIPTION	VENDOR	CATALOG #
GROUNDING MATERIALS LIST			
GROUNDING MATERIALS			
G1	#10 CU SOFT DRAWN STRANDED BARE COPPER CONDUCTOR		
G2	5/8" X 8'-0" COPPERWELD GROUND ROD	BLACKBURN	82888
G3	COMPRESSION CONNECTOR - #10 TO 5/8" GROUND ROD (GROUND ROD GRID CONNECTOR)	BURNIDY	YGLP28C53
G4	COMPRESSION CONNECTOR - #10 TO #10, #10 TO #10 AND #10 TO #10	BURNIDY	YORP28C29

**GROUNDING DETAILS**

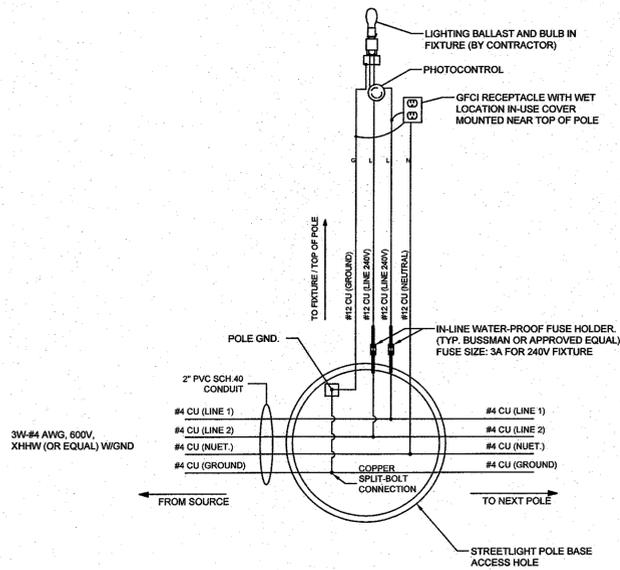


**ROD TO CABLE CONNECTION**

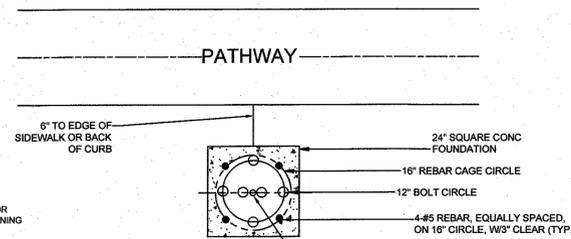
**TAP CABLE CONNECTION**



**ELECTRICAL CABINET FOUNDATION PLAN**  
NOT TO SCALE

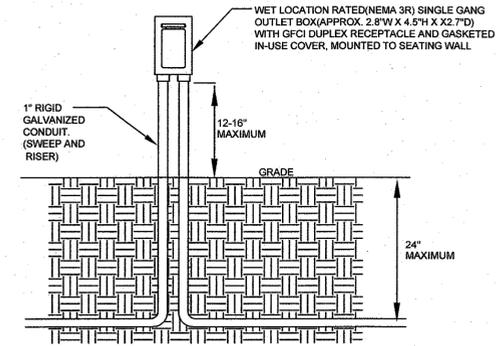


**TYPICAL STREETLIGHT WIRING DETAIL**  
NOT TO SCALE

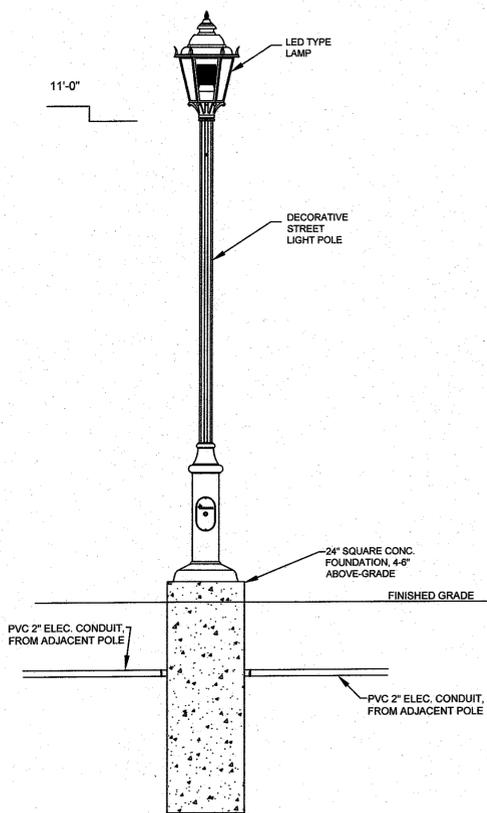


**PATHWAY**

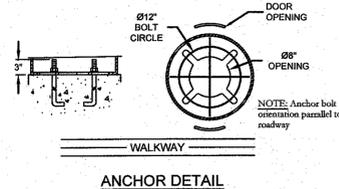
**BASE FOOTPRINT**  
NO SCALE



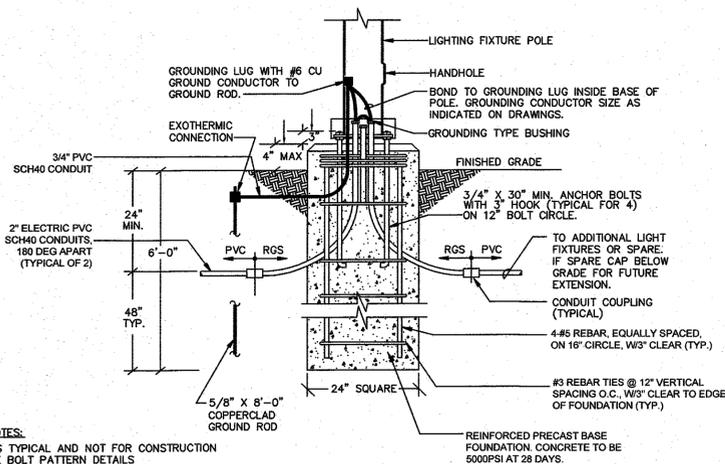
**ABOVE GRADE DUPLEX RECEPTACLE**  
NO SCALE



**PROPOSED LIGHT POLE INSTALLATION**  
NOT TO SCALE

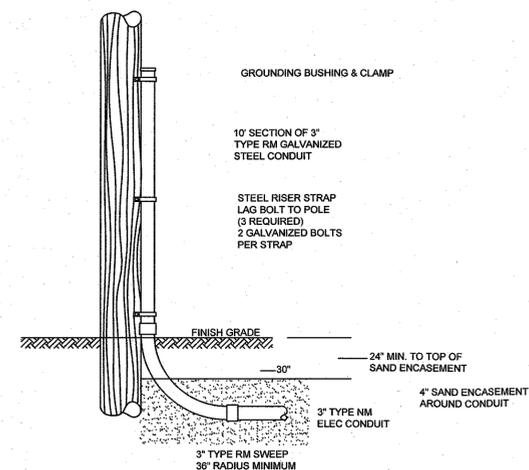


**ANCHOR DETAIL**



**LIGHT POLE FOUNDATION DETAIL**  
NOT TO SCALE

- LIGHT POLE FOUNDATION NOTES:**
- BOLT PATTERN SHOWN IS TYPICAL AND NOT FOR CONSTRUCTION CONTRACTOR TO PROVIDE BOLT PATTERN DETAILS BASED ON SELECTED MANUFACTURER.
  - PROVIDE REBAR DETAIL FROM PRECAST CONCRETE VENDOR FOR APPROVAL.
  - CONDUIT LOCATIONS SHOWN ARE TYPICAL.



**TYPICAL UTILITY  
RISER POLE DETAIL**  
NOT TO SCALE