

LAFAYETTE PARK

SALEM, MASSACHUSETTS

KIMBERLEY DRISCOLL, MAYOR



DRAWING LIST

EC 1.00	SITE PLAN OF LAND
L 1.00	SITE DEMOLITION AND PREP PLAN
L 2.00	MATERIALS PLAN
L 2.10	LAYOUT PLAN
L 3.00	GRADING PLAN
L 4.00	PLANTING PLAN
L 5.00	PAVING DETAILS
L 5.10	FURNISHING DETAILS
L 5.11	LIGHTING DETAILS
L 5.20	PLANTING DETAILS
E 0.1	ELECTRICAL SPECIFICATIONS SYMBOLS AND DETAILS
E 1.0	ELECTRICAL SITE PLAN

BID SET

June 14, 2017

MICHELLE CROWLEY LANDSCAPE ARCHITECTURE
281 SUMMER STREET, 6TH FLOOR
BOSTON, MA 02210
617.338.8400



HARBOR STREET

LAFAYETTE STREET

WASHINGTON STREET

SITE PLAN OF LAND

316 ESSEX STREET

SALEM

PREPARED FOR

CITY OF SALEM

OCTOBER 25, 2016

NORTH SHORE SURVEY CORPORATION

14 BROWN ST. - SALEM, MA

(978) 744-4800

#4385

GRAPHIC SCALE



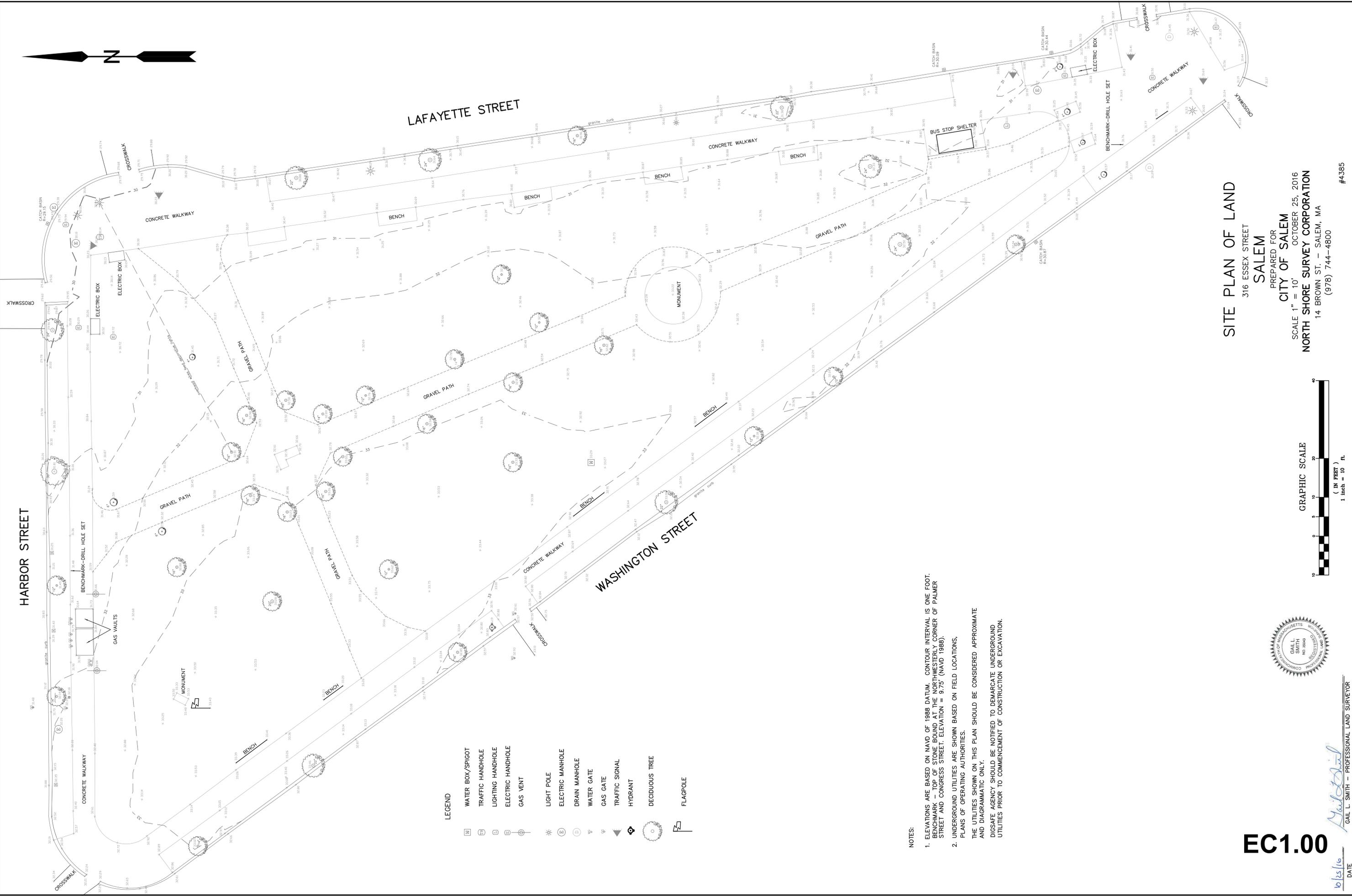
1 inch = 10 ft.



GAIL L. SMITH - PROFESSIONAL LAND SURVEYOR

EC1.00

DATE

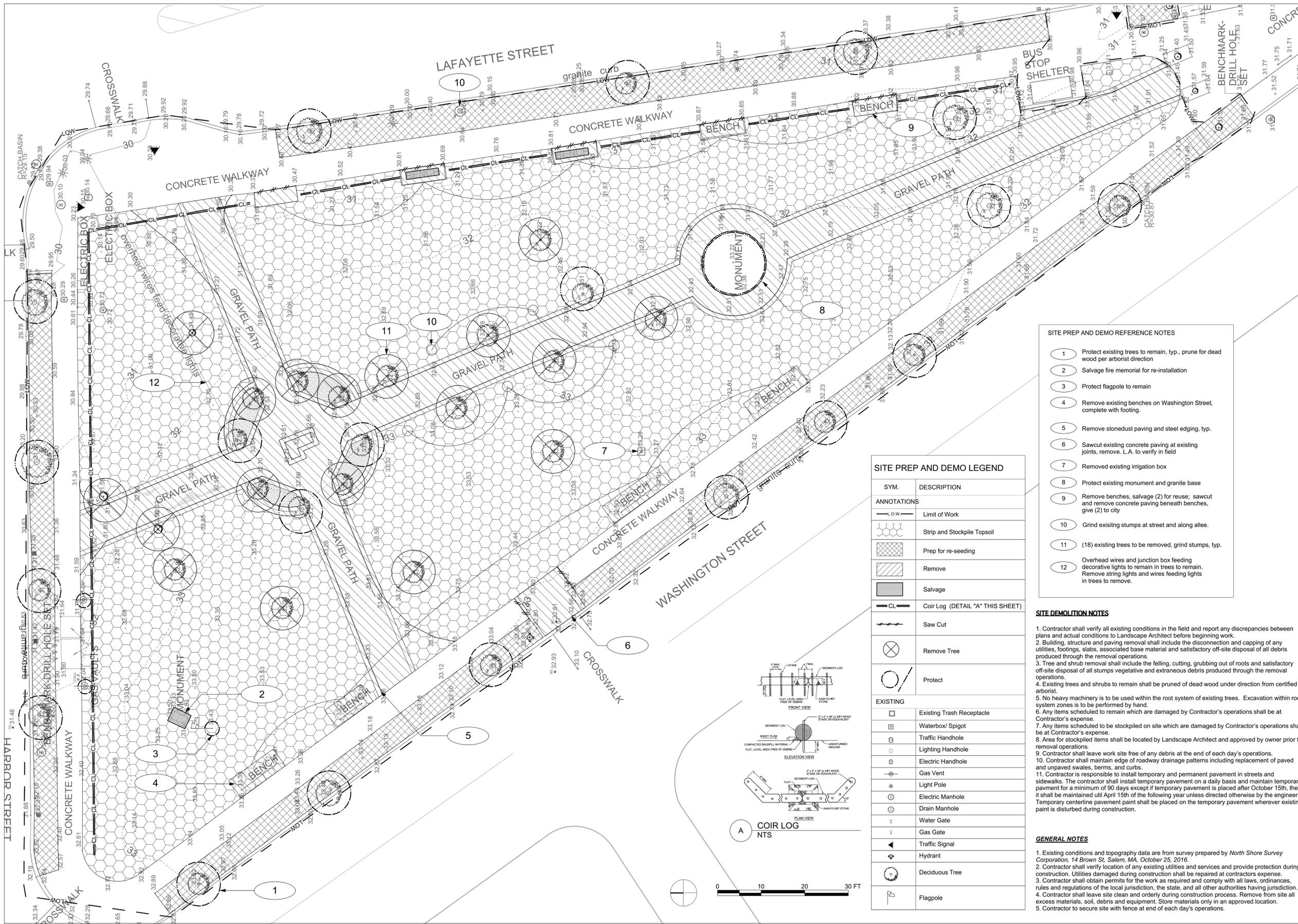


LEGEND

- WATER BOX/SPIGOT
- TRAFFIC HANDHOLE
- LIGHTING HANDHOLE
- ELECTRIC HANDHOLE
- GAS VENT
- LIGHT POLE
- ELECTRIC MANHOLE
- DRAIN MANHOLE
- WATER GATE
- GAS GATE
- TRAFFIC SIGNAL
- HYDRANT
- DECIDUOUS TREE
- FLAGPOLE

NOTES:

1. ELEVATIONS ARE BASED ON NAVD OF 1988 DATUM. CONTOUR INTERVAL IS ONE FOOT. BENCHMARK - TOP OF STONE BOUND AT THE NORTH-WESTERLY CORNER OF PALMER STREET AND CONGRESS STREET. ELEVATION = 9.75 (NAVD 1988).
2. UNDERGROUND UTILITIES ARE SHOWN BASED ON FIELD LOCATIONS, PLANS OF OPERATING AUTHORITIES. THE UTILITIES SHOWN ON THIS PLAN SHOULD BE CONSIDERED APPROXIMATE AND DIAGRAMMATIC ONLY. DIGSAFE AGENCY SHOULD BE NOTIFIED TO DEMARCATe UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION OR EXCAVATION.



PROJECT
LAFAYETTE PARK
Lafayette St
Salem, MA 01970
BID SET

BID SET NOT FOR CONSTRUCTION

No. Date
CONSULTANTS:

mcla
Michelle Crowley Landscape
Architecture, LLC
281 Summer St. 6th Floor
Boston, MA 02210
617.338.8400
www.michellecrowley-la.com



DATE:
June 14, 2017
PROJECT NUMBER:
1612
SCALE:
1" = 10'-0"

DRAWING TITLE:
**SITE DEMOLITION
AND PREP PLAN**

L1.00

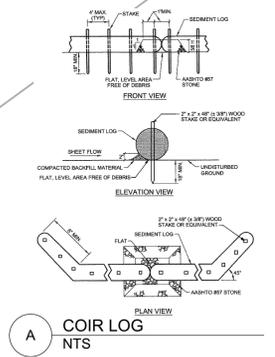
- SITE PREP AND DEMO REFERENCE NOTES**
- 1 Protect existing trees to remain, typ., prune dead wood per arborist direction
 - 2 Salvage fire memorial for re-installation
 - 3 Protect flagpole to remain
 - 4 Remove existing benches on Washington Street, complete with footing.
 - 5 Remove stonedust paving and steel edging, typ.
 - 6 Sawcut existing concrete paving at existing joints, remove, L.A. to verify in field
 - 7 Removed existing irrigation box
 - 8 Protect existing monument and granite base
 - 9 Remove benches, salvage (2) for reuse: sawcut and remove concrete paving beneath benches, give (2) to city
 - 10 Grind existing stumps at street and along allee.
 - 11 (18) existing trees to be removed, grind stumps, typ.
 - 12 Overhead wires and junction box feeding decorative lights to remain in trees to remain. Remove string lights and wires feeding lights in trees to remove.

SITE PREP AND DEMO LEGEND

SYM.	DESCRIPTION
ANNOTATIONS	
— L.O.W. —	Limit of Work
[Hatched Pattern]	Strip and Stockpile Topsoil
[Cross-hatched Pattern]	Prep for re-seeding
[Diagonal Hatched Pattern]	Remove
[Solid Grey Box]	Salvage
— CL —	Coir Log (DETAIL "A" THIS SHEET)
[Saw Cut Symbol]	Saw Cut
[Tree with X]	Remove Tree
[Circle with slash]	Protect
EXISTING	
[Square with X]	Existing Trash Receptacle
[Square with dot]	Waterbox/ Spigot
[Circle with dot]	Traffic Handhole
[Circle with dot]	Lighting Handhole
[Circle with dot]	Electric Handhole
[Circle with dot]	Gas Vent
[Circle with dot]	Light Pole
[Circle with dot]	Electric Manhole
[Circle with dot]	Drain Manhole
[Circle with dot]	Water Gate
[Circle with dot]	Gas Gate
[Triangle with dot]	Traffic Signal
[Diamond with dot]	Hydrant
[Circle with dot]	Deciduous Tree
[Flagpole symbol]	Flagpole

- SITE DEMOLITION NOTES**
1. Contractor shall verify all existing conditions in the field and report any discrepancies between plans and actual conditions to Landscape Architect before beginning work.
 2. Building, structure and paving removal shall include the disconnection and capping of any utilities, footings, slabs, associated base material and satisfactory off-site disposal of all debris produced through the removal operations.
 3. Tree and shrub removal shall include the felling, cutting, grubbing out of roots and satisfactory off-site disposal of all stumps vegetative and extraneous debris produced through the removal operations.
 4. Existing trees and shrubs to remain shall be pruned of dead wood under direction from certified arborist.
 5. No heavy machinery is to be used within the root system of existing trees. Excavation within root system zones is to be performed by hand.
 6. Any items scheduled to remain which are damaged by Contractor's operations shall be at Contractor's expense.
 7. Any items scheduled to be stockpiled on site which are damaged by Contractor's operations shall be at Contractor's expense.
 8. Area for stockpiled items shall be located by Landscape Architect and approved by owner prior to removal operations.
 9. Contractor shall leave work site free of any debris at the end of each day's operations.
 10. Contractor shall maintain edge of roadway drainage patterns including replacement of paved and unpaved swales, berms, and curbs.
 11. Contractor is responsible to install temporary and permanent pavement in streets and sidewalks. The contractor shall install temporary pavement on a daily basis and maintain temporary pavement for a minimum of 90 days except if temporary pavement is placed after October 15th, then it shall be maintained until April 15th of the following year unless directed otherwise by the engineer. Temporary centerline pavement paint shall be placed on the temporary pavement wherever existing paint is disturbed during construction.

- GENERAL NOTES**
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 2. Contractor shall verify location of any existing utilities and services and provide protection during construction. Utilities damaged during construction shall be repaired at contractors expense.
 3. Contractor shall obtain permits for the work as required and comply with all laws, ordinances, rules and regulations of the local jurisdiction, the state, and all other authorities having jurisdiction.
 4. Contractor shall leave site clean and orderly during construction process. Remove from site all excess materials, soil, debris and equipment. Store materials only in an approved location.
 5. Contractor to secure site with fence at end of each day's operations.





PROJECT:
LAFAYETTE PARK
Lafayette St
Salem, MA 01970

BID SET

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No. Date Revision
CONSULTANTS:

mcla
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Architecture, LLC
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Boston, MA 02210

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STAMP:

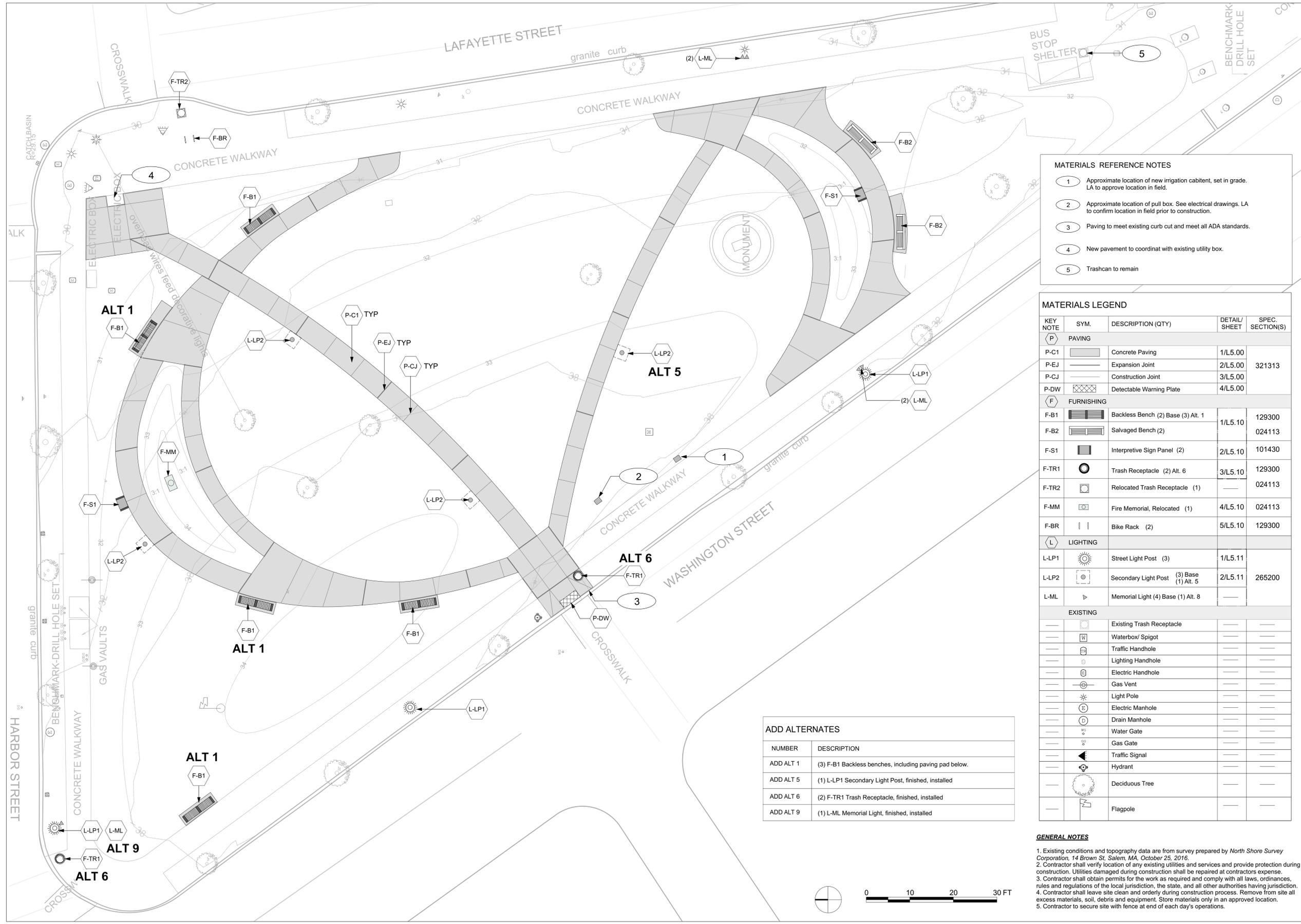


DATE:
June 14, 2017

PROJECT NUMBER: 1612 SCALE: 1" = 10'

DRAWING TITLE:
MATERIALS PLAN

L2.00



MATERIALS REFERENCE NOTES

- 1 Approximate location of new irrigation cabinet, set in grade. LA to approve location in field.
- 2 Approximate location of pull box. See electrical drawings. LA to confirm location in field prior to construction.
- 3 Paving to meet existing curb cut and meet all ADA standards.
- 4 New pavement to coordinate with existing utility box.
- 5 Trashcan to remain

MATERIALS LEGEND

KEY NOTE	SYM.	DESCRIPTION (QTY)	DETAIL/ SHEET	SPEC. SECTION(S)
(P) PAVING				
P-C1	[Symbol]	Concrete Paving	1/L5.00	
P-EJ	[Symbol]	Expansion Joint	2/L5.00	321313
P-CJ	[Symbol]	Construction Joint	3/L5.00	
P-DW	[Symbol]	Detectable Warning Plate	4/L5.00	
(F) FURNISHING				
F-B1	[Symbol]	Backless Bench (2) Base (3) Alt. 1	1/L5.10	129300
F-B2	[Symbol]	Salvaged Bench (2)		024113
F-S1	[Symbol]	Interpretive Sign Panel (2)	2/L5.10	101430
F-TR1	[Symbol]	Trash Receptacle (2) Alt. 6	3/L5.10	129300
F-TR2	[Symbol]	Relocated Trash Receptacle (1)		024113
F-MM	[Symbol]	Fire Memorial, Relocated (1)	4/L5.10	024113
F-BR	[Symbol]	Bike Rack (2)	5/L5.10	129300
(L) LIGHTING				
L-LP1	[Symbol]	Street Light Post (3)	1/L5.11	
L-LP2	[Symbol]	Secondary Light Post (3) Base (1) Alt. 5	2/L5.11	265200
L-ML	[Symbol]	Memorial Light (4) Base (1) Alt. 8		

EXISTING

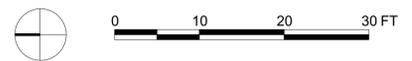
[Symbol]	Existing Trash Receptacle		
[Symbol]	Waterbox/ Spigot		
[Symbol]	Traffic Handhole		
[Symbol]	Lighting Handhole		
[Symbol]	Electric Handhole		
[Symbol]	Gas Vent		
[Symbol]	Light Pole		
[Symbol]	Electric Manhole		
[Symbol]	Drain Manhole		
[Symbol]	Water Gate		
[Symbol]	Gas Gate		
[Symbol]	Traffic Signal		
[Symbol]	Hydrant		
[Symbol]	Deciduous Tree		
[Symbol]	Flagpole		

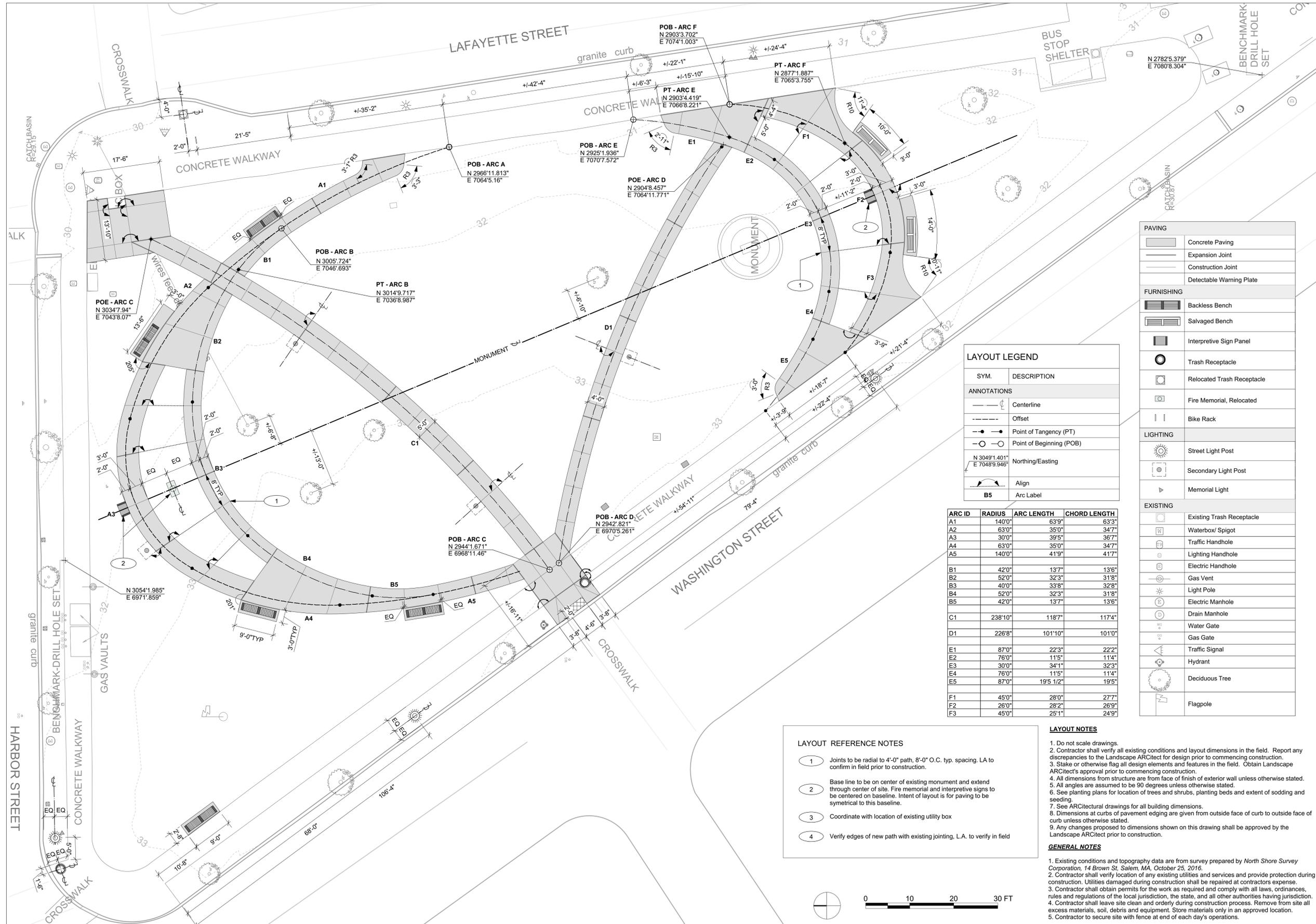
ADD ALTERNATES

NUMBER	DESCRIPTION
ADD ALT 1	(3) F-B1 Backless benches, including paving pad below.
ADD ALT 5	(1) L-LP1 Secondary Light Post, finished, installed
ADD ALT 6	(2) F-TR1 Trash Receptacle, finished, installed
ADD ALT 9	(1) L-ML Memorial Light, finished, installed

GENERAL NOTES

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- Contractor shall obtain permits for the work as required and comply with all laws, ordinances, rules and regulations of the local jurisdiction, the state, and all other authorities having jurisdiction.
- Contractor shall leave site clean and orderly during construction process. Remove from site all excess materials, soil, debris and equipment. Store materials only in an approved location.
- Contractor to secure site with fence at end of each day's operations.





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DATE:
June 14, 2017

PROJECT NUMBER: 1612 SCALE: 1" = 10'

DRAWING TITLE:
LAYOUT PLAN

L2.10

PAVING	
	Concrete Paving
	Expansion Joint
	Construction Joint
	Detectable Warning Plate
FURNISHING	
	Backless Bench
	Salvaged Bench
	Interpretive Sign Panel
	Trash Receptacle
	Relocated Trash Receptacle
	Fire Memorial, Relocated
	Bike Rack
LIGHTING	
	Street Light Post
	Secondary Light Post
	Memorial Light
EXISTING	
	Existing Trash Receptacle
	Waterbox/ Spigot
	Traffic Handhole
	Lighting Handhole
	Electric Handhole
	Gas Vent
	Light Pole
	Electric Manhole
	Drain Manhole
	Water Gate
	Gas Gate
	Traffic Signal
	Hydrant
	Deciduous Tree
	Flagpole

LAYOUT LEGEND	
SYM.	DESCRIPTION
	Centerline
	Offset
	Point of Tangency (PT)
	Point of Beginning (POB)
	Northing/Easting
	Align
	Arc Label

ARC ID	RADIUS	ARC LENGTH	CHORD LENGTH
A1	140'0"	63'9"	63'3"
A2	63'0"	35'0"	34'7"
A3	30'0"	39'5"	36'7"
A4	63'0"	35'0"	34'7"
A5	140'0"	41'9"	41'7"
B1	42'0"	13'7"	13'6"
B2	52'0"	32'3"	31'8"
B3	40'0"	33'8"	32'8"
B4	52'0"	32'3"	31'8"
B5	42'0"	13'7"	13'6"
C1	238'10"	118'7"	117'4"
D1	226'8"	101'10"	101'0"
E1	87'0"	22'3"	22'2"
E2	76'0"	11'5"	11'4"
E3	30'0"	34'1"	32'3"
E4	76'0"	11'5"	11'4"
E5	87'0"	19'5 1/2"	19'5"
F1	45'0"	28'0"	27'7"
F2	26'0"	28'2"	26'9"
F3	45'0"	25'1"	24'9"

LAYOUT REFERENCE NOTES

- 1 Joints to be radial to 4'-0" path, 8'-0" O.C. typ. spacing. LA to confirm in field prior to construction.
- 2 Base line to be on center of existing monument and extend through center of site. Fire memorial and interpretive signs to be centered on baseline. Intent of layout is for paving to be symmetrical to this baseline.
- 3 Coordinate with location of existing utility box
- 4 Verify edges of new path with existing jointing, L.A. to verify in field

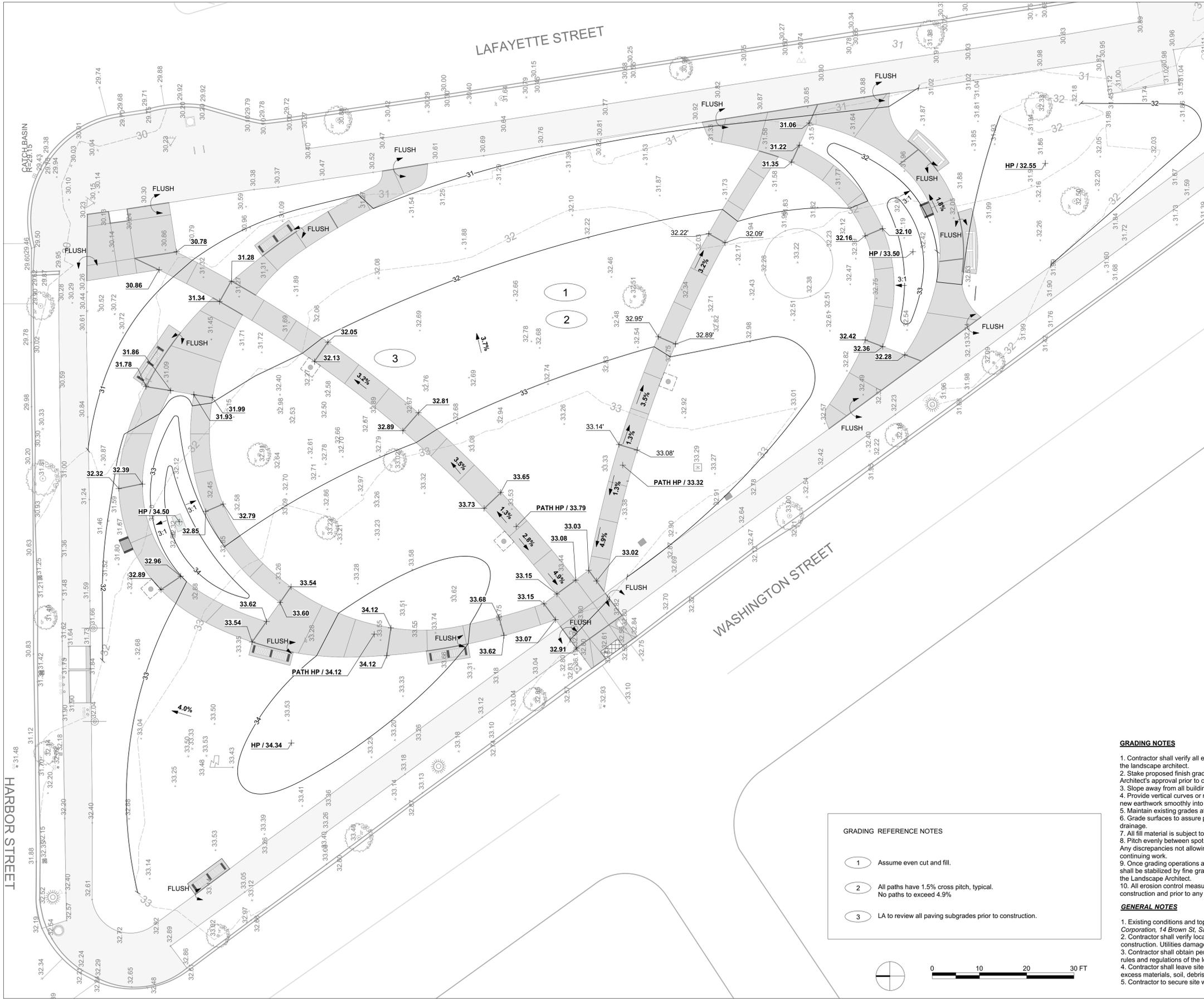
LAYOUT NOTES

1. Do not scale drawings.
2. Contractor shall verify all existing conditions and layout dimensions in the field. Report any discrepancies to the Landscape Architect for design prior to commencing construction.
3. Stake or otherwise flag all design elements and features in the field. Obtain Landscape Architect's approval prior to commencing construction.
4. All dimensions from structure are from face of finish of exterior wall unless otherwise stated.
5. All angles are assumed to be 90 degrees unless otherwise stated.
6. See planting plans for location of trees and shrubs, planting beds and extent of sodding and seeding.
7. See Architectural drawings for all building dimensions.
8. Dimensions at curbs of pavement edging are given from outside face of curb to outside face of curb unless otherwise stated.
9. Any changes proposed to dimensions shown on this drawing shall be approved by the Landscape Architect prior to construction.

GENERAL NOTES

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5. Contractor to secure site with fence at end of each day's operations.





GRADING LEGEND	
SYM.	DESCRIPTION
GRADING ANNOTATIONS	
---30---	Existing Major Contour
---33---	Existing Minor Contour
---10---	Proposed Major Contour
---11---	Proposed Minor Contour
+ 33.53	Existing Spot Elevation
+ 9.77	Proposed Spot Elevation
FLUSH	Surfaces to Align
1.0% MIN	Slope
PAVING	
[Pattern]	Concrete Paving
[Line]	Expansion Joint
[Line]	Construction Joint
[Pattern]	Detectable Warning Plate
FURNISHING	
[Symbol]	Backless Bench
[Symbol]	Salvaged Bench
[Symbol]	Interpretive Sign Panel
[Symbol]	Trash Receptacle
[Symbol]	Relocated Trash Receptacle
[Symbol]	Fire Memorial, Relocated
[Symbol]	Bike Rack
LIGHTING	
[Symbol]	Street Light Post
[Symbol]	Secondary Light Post
[Symbol]	Memorial Light
EXISTING	
[Symbol]	Existing Trash Receptacle
[Symbol]	Waterbox/ Spigot
[Symbol]	Traffic Handhole
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[Symbol]	Hydrant
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[Symbol]	Flagpole

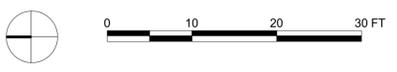
- GRADING REFERENCE NOTES**
- 1 Assume even cut and fill.
 - 2 All paths have 1.5% cross pitch, typical. No paths to exceed 4.9%.
 - 3 LA to review all paving subgrades prior to construction.

GRADING NOTES

1. Contractor shall verify all existing grades in the field and report any discrepancies immediately to the landscape architect.
2. Stake proposed finish grade and cut/fills of existing grade in the field. Obtain Landscape Architect's approval prior to commencing construction.
3. Slope away from all buildings.
4. Provide vertical curves or roundings at abrupt changes in grade unless otherwise noted. Blend new earthwork smoothly into existing grades.
5. Maintain existing grades at existing plant material to remain.
6. Grade surfaces to assure positive drainage from all structures and to prevent ponding of surface drainage.
7. All fill material is subject to approval by Landscape Architect.
8. Pitch evenly between spot grades. All paved areas must pitch to drain at a minimum 1% slope. Any discrepancies not allowing this to occur shall be reported to the Landscape Architect prior to continuing work.
9. Once grading operations are completed, all disturbed areas within or outside of the limits of work shall be stabilized by fine grading and seeding, sod or mulching as indicated on plan and directed by the Landscape Architect.
10. All erosion control measures are to be constructed to meet field conditions at the time of construction and prior to any grading or disturbance of existing material on balance of site.

GENERAL NOTES

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DATE:
June 14, 2017
PROJECT NUMBER:
1612
SCALE:
1" = 10'

DRAWING TITLE:
GRADING PLAN

L3.00



PROJECT
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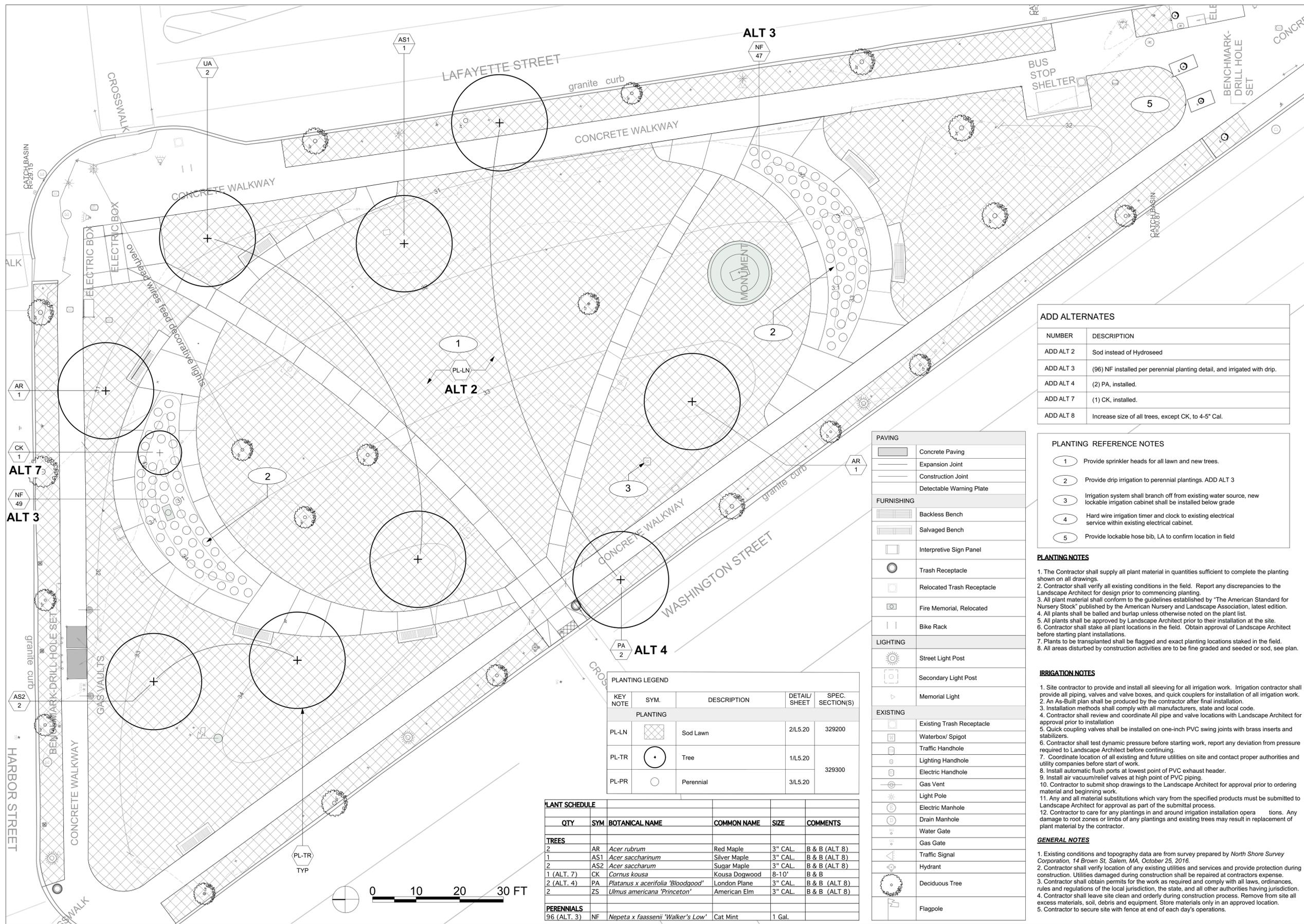
DATE:
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PROJECT NUMBER: 1612 SCALE: 1" = 10'-0"

DRAWING TITLE:

PLANTING PLAN

L4.00



ADD ALTERNATES

NUMBER	DESCRIPTION
ADD ALT 2	Sod instead of Hydroseed
ADD ALT 3	(96) NF installed per perennial planting detail, and irrigated with drip.
ADD ALT 4	(2) PA, installed.
ADD ALT 7	(1) CK, installed.
ADD ALT 8	Increase size of all trees, except CK, to 4-5" Cal.

PLANTING REFERENCE NOTES

- Provide sprinkler heads for all lawn and new trees.
- Provide drip irrigation to perennial plantings. ADD ALT 3
- Irrigation system shall branch off from existing water source, new lockable irrigation cabinet shall be installed below grade
- Hard wire irrigation timer and clock to existing electrical service within existing electrical cabinet.
- Provide lockable hose bib, LA to confirm location in field

- PLANTING NOTES**
- The Contractor shall supply all plant material in quantities sufficient to complete the planting shown on all drawings.
 - Contractor shall verify all existing conditions in the field. Report any discrepancies to the Landscape Architect for design prior to commencing planting.
 - All plant material shall conform to the guidelines established by "The American Standard for Nursery Stock" published by the American Nursery and Landscape Association, latest edition.
 - All plants shall be balled and burlap unless otherwise noted on the plant list.
 - All plants shall be approved by Landscape Architect prior to their installation at the site.
 - Contractor shall stake all plant locations in the field. Obtain approval of Landscape Architect before starting plant installations.
 - Plants to be transplanted shall be flagged and exact planting locations staked in the field.
 - All areas disturbed by construction activities are to be fine graded and seeded or sod, see plan.

- IRRIGATION NOTES**
- Site contractor to provide and install all sleeving for all irrigation work. Irrigation contractor shall provide all piping, valves and valve boxes, and quick couplers for installation of all irrigation work.
 - An As-Built plan shall be produced by the contractor after final installation.
 - Installation methods shall comply with all manufacturers, state and local code.
 - Contractor shall review and coordinate all pipe and valve locations with Landscape Architect for approval prior to installation.
 - Quick coupling valves shall be installed on one-inch PVC swing joints with brass inserts and stabilizers.
 - Contractor shall test dynamic pressure before starting work, report any deviation from pressure required to Landscape Architect before continuing.
 - Coordinate location of all existing and future utilities on site and contact proper authorities and utility companies before start of work.
 - Install automatic flush ports at lowest point of PVC exhaust header.
 - Install air vacuum/relief valves at high point of PVC piping.
 - Contractor to submit shop drawings to the Landscape Architect for approval prior to ordering material and beginning work.
 - Any and all material substitutions which vary from the specified products must be submitted to Landscape Architect for approval as part of the submittal process.
 - Contractor to care for any plantings in and around irrigation installation operations. Any damage to root zones or limbs of any plantings and existing trees may result in replacement of plant material by the contractor.

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PAVING

- Concrete Paving
- Expansion Joint
- Construction Joint
- Detectable Warning Plate

FURNISHING

- Backless Bench
- Salvaged Bench
- Interpretive Sign Panel
- Trash Receptacle
- Relocated Trash Receptacle
- Fire Memorial, Relocated
- Bike Rack

LIGHTING

- Street Light Post
- Secondary Light Post
- Memorial Light

EXISTING

- Existing Trash Receptacle
- Waterbox/ Spigot
- Traffic Handhole
- Lighting Handhole
- Electric Handhole
- Gas Vent
- Light Pole
- Electric Manhole
- Drain Manhole
- Water Gate
- Gas Gate
- Traffic Signal
- Hydrant
- Deciduous Tree
- Flagpole

PLANTING LEGEND

KEY NOTE	SYM.	DESCRIPTION	DETAIL/ SHEET	SPEC. SECTION(S)
PLANTING				
PL-LN	[Symbol]	Sod Lawn	2/L.5.20	329200
PL-TR	[Symbol]	Tree	1/L.5.20	329300
PL-PR	[Symbol]	Perennial	3/L.5.20	

PLANT SCHEDULE

QTY	SYM	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
TREES					
2	AR	<i>Acer rubrum</i>	Red Maple	3" CAL.	B & B (ALT 8)
1	AS1	<i>Acer saccharinum</i>	Silver Maple	3" CAL.	B & B (ALT 8)
2	AS2	<i>Acer saccharum</i>	Sugar Maple	3" CAL.	B & B (ALT 8)
1 (ALT. 7)	CK	<i>Cornus kousa</i>	Kousa Dogwood	8-10'	B & B
2 (ALT. 4)	PA	<i>Platanus x acerifolia</i> 'Bloodgood'	London Plane	3" CAL.	B & B (ALT 8)
2	ZS	<i>Ulmus americana</i> 'Princeton'	American Elm	3" CAL.	B & B (ALT 8)
PERENNIALS					
96 (ALT. 3)	NF	<i>Nepeta x faassenii</i> 'Walker's Low'	Cat Mint	1 Gal.	





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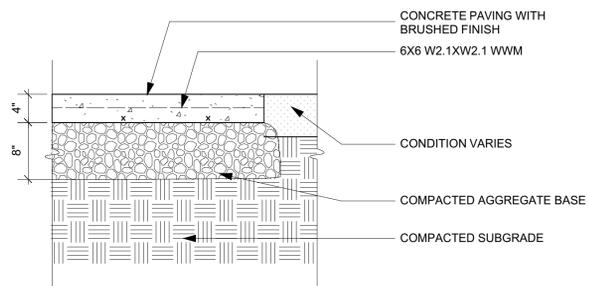
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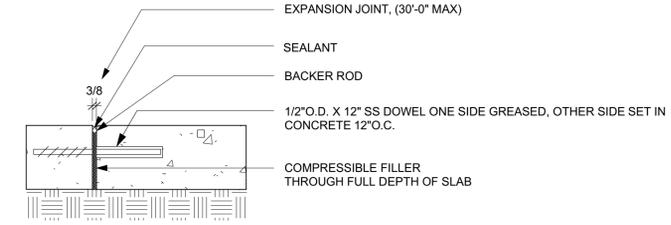
DATE:
June 14, 2017
PROJECT NUMBER: 1612 SCALE: As Noted

DRAWING TITLE:
PAVING
DETAILS

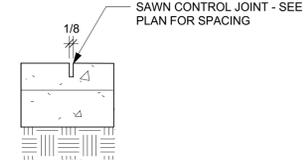
L5.00



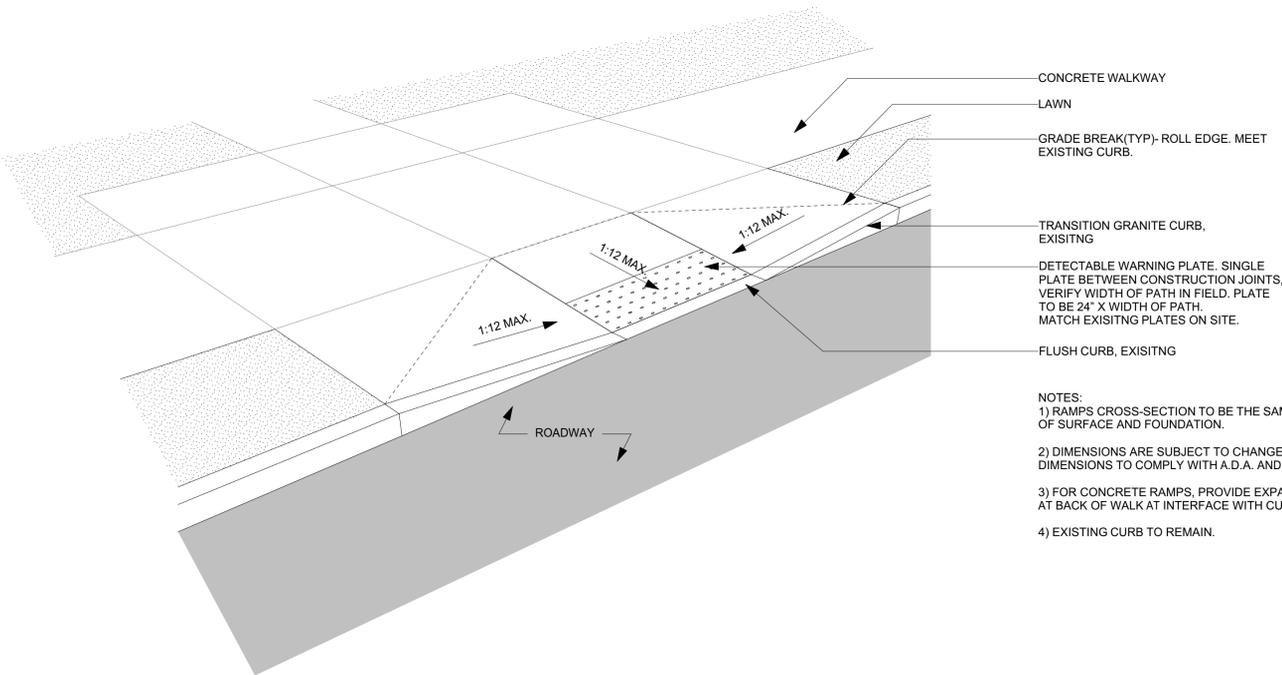
1 (P-C1) CONCRETE PAVING
Scale: 1" = 1'-0"



2 (P-EJ) EXPANSION JOINT
Scale: 1 1/2" = 1'-0"



3 (P-CJ) CONSTRUCTION JOINT
Scale: 1 1/2" = 1'-0"



NOTES:
1) RAMPS CROSS-SECTION TO BE THE SAME AS ADJACENT SIDEWALK; I.E. DEPTH OF SURFACE AND FOUNDATION.
2) DIMENSIONS ARE SUBJECT TO CHANGE IN FIELD. ALL SLOPES AND DIMENSIONS TO COMPLY WITH A.D.A. AND MAAB REQUIREMENTS.
3) FOR CONCRETE RAMPS, PROVIDE EXPANSION JOINT AT TOPS OF RAMPS AND AT BACK OF WALK AT INTERFACE WITH CURB.
4) EXISTING CURB TO REMAIN.

4 (P-DW) DETECTABLE WARNING PLATE
Scale: 1" = 1'-0"



PROJECT
LAFAYETTE PARK

Lafayette St
Salem, MA 01970

BID SET

BID SET NOT FOR CONSTRUCTION

No. Date Revision

CONSULTANTS:

mcla
Michelle Crowley Landscape
Architecture, LLC
281 Summer St. 6th Floor
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STAMP:

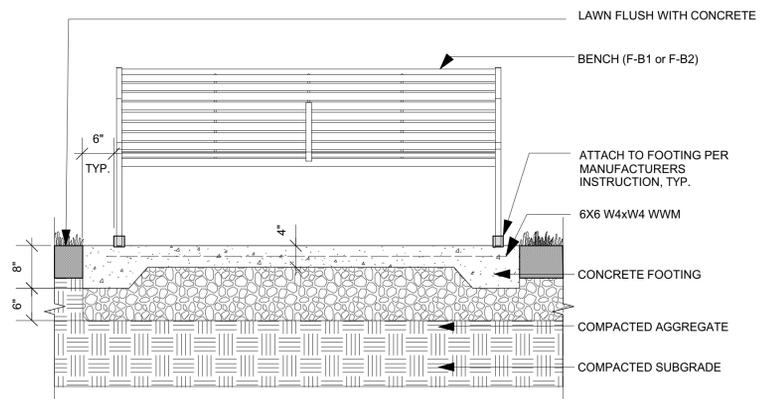


DATE:
June 14, 2017

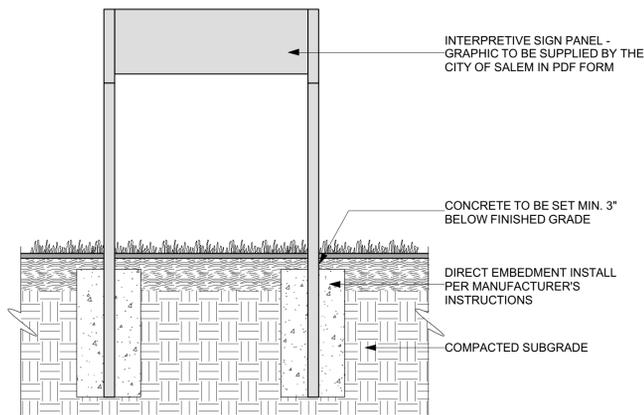
PROJECT NUMBER: 1612 SCALE: As Noted

DRAWING TITLE:
FURNISHING
DETAILS

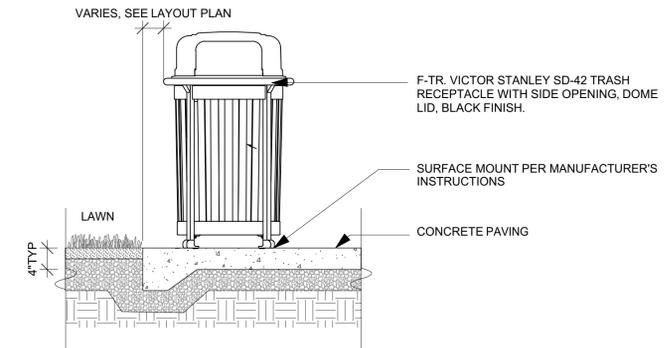
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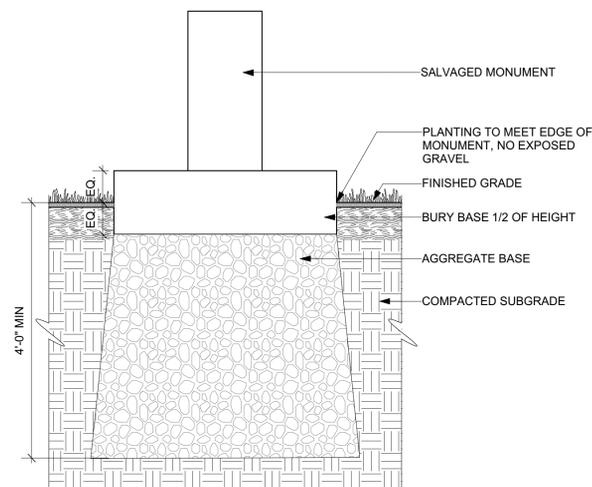
1 (F-B1) (F-B2) BACKLESS BENCH, SALVAGED BENCH
Scale: 3/4" = 1'-0"



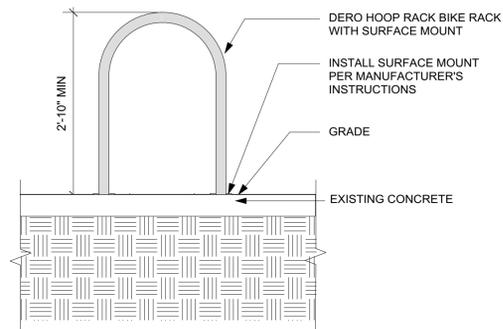
2 (F-S1) INTERPRETIVE SIGN PANEL
Scale: 3/4" = 1'-0"



3 (F-TR) TRASH RECEPTACLE
Scale: 3/4" = 1'-0"



4 (F-MM) FIRE MEMORIAL RELOCATED
Scale: 3/4" = 1'-0"



5 (F-BR) BIKE RACK
Scale: 3/4" = 1'-0"



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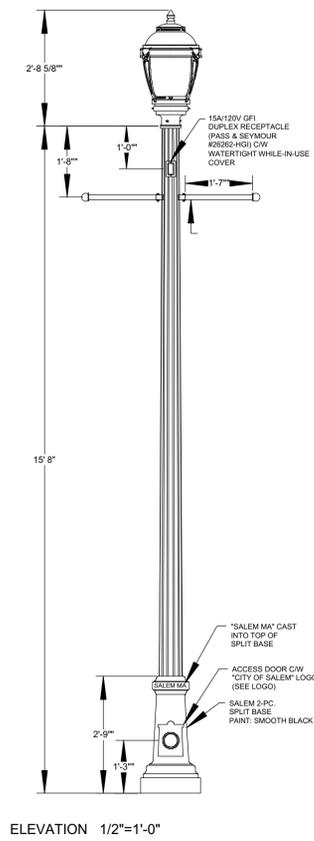
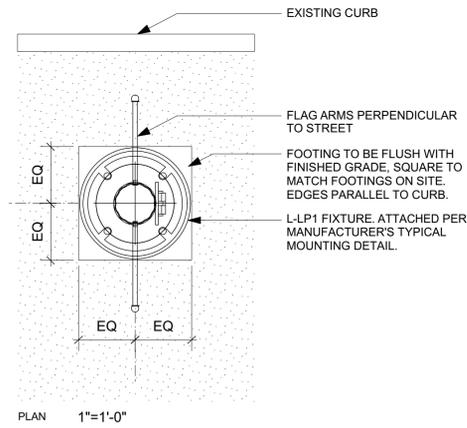
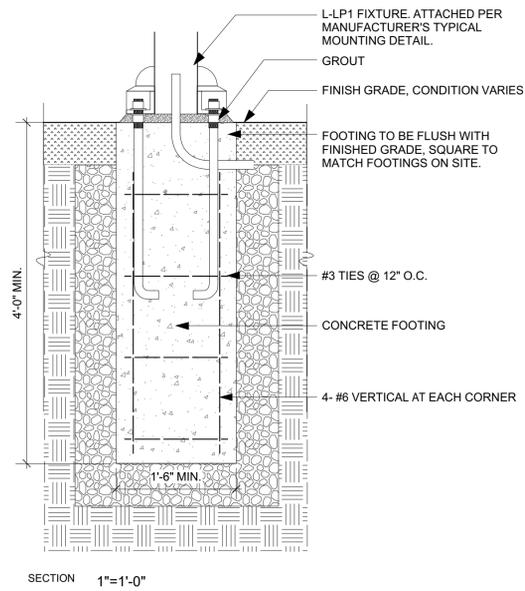


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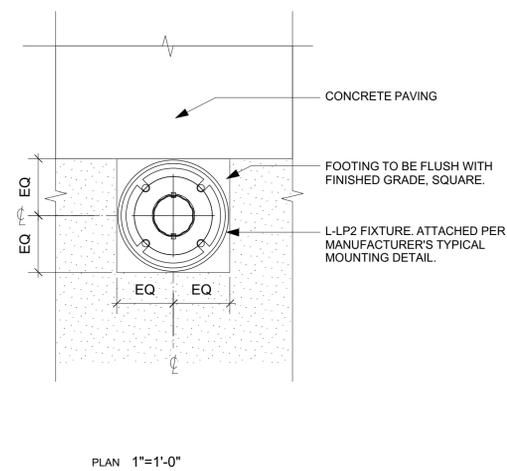
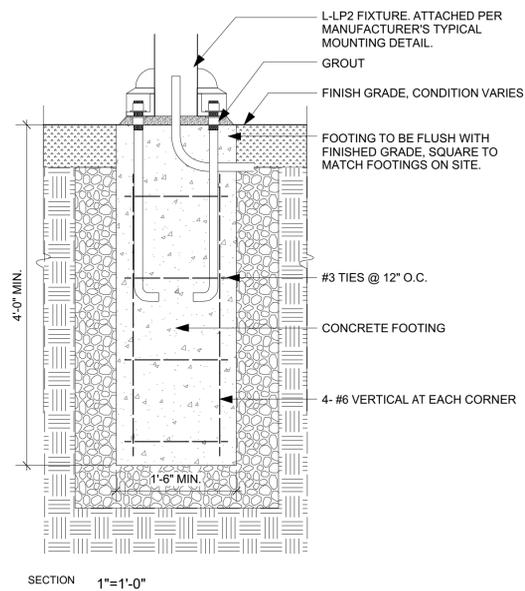
PROJECT NUMBER: 1612 SCALE: As Noted

DRAWING TITLE:
LIGHTING
DETAILS

L5.11



1 (F-LP) LIGHT POST AS NOTED



2 (F-LP) LIGHT POST AS NOTED



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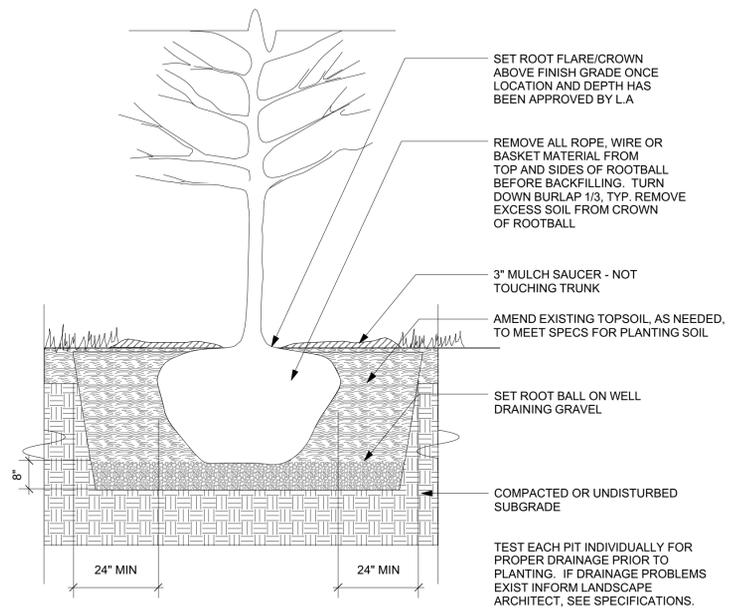


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June 14, 2017

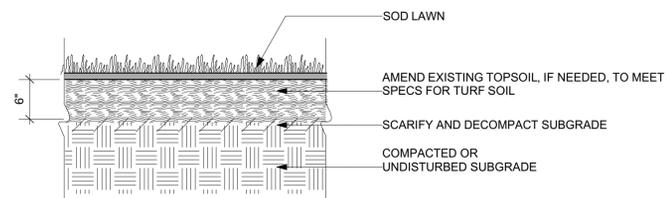
PROJECT NUMBER: 1612 SCALE: As Noted

DRAWING TITLE:
PLANTING
DETAILS

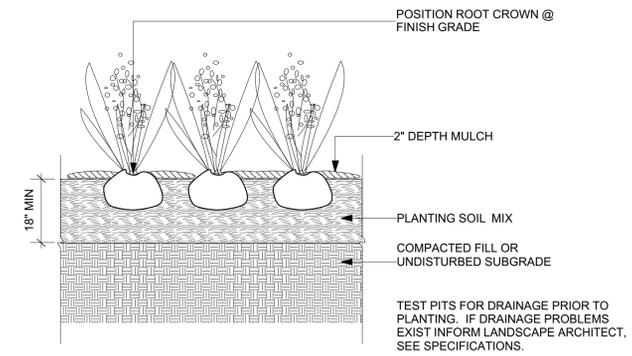
L5.20



1 (PL-TR) TREE
Scale: 1/2" = 1'-0"



2 (PL-SD) SOD
Scale: 1" = 1'-0"



3 (PL-PR) PERENNIAL
Scale: 1/2" = 1'-0"

GENERAL SPECIFICATIONS

- CONDITIONS OF THE CONTRACT AND DIVISION 1, GENERAL REQUIREMENTS APPLY TO WORK SHOWN ON THESE DRAWINGS. EXAMINE DRAWINGS AND OTHER SPECIFICATIONS FOR REQUIREMENTS THAT AFFECT WORK SHOWN ON THESE DRAWINGS.
- PROVIDE ITEMS REFERRED TO IN SINGULAR NUMBER IN CONTRACT DOCUMENTS IN QUANTITIES NECESSARY TO COMPLETE WORK.
- VISIT SITE AND EXAMINE CONDITIONS UNDER WHICH WORK MUST BE PERFORMED, REPORT ADVERSE CONDITIONS IN WRITING TO ENGINEER. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS INCLUDING PREPARATORY WORK DONE BY OTHERS.
- PERFORM WORK AND PROVIDE MATERIALS AND EQUIPMENT AS SHOWN ON DRAWINGS. COORDINATE ELECTRICAL WORK WITH WORK SHOWN ON THESE DRAWINGS.
- GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.
- PERFORM WORK AS REQUIRED BY CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL JURISDICTION.
- MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, ANSI, IEEE, ADA & CBM APPROVED FOR INTENDED SERVICE. MATERIAL AND INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND STATE ELECTRICAL CODE.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS.
- UTILIZE EXITING MOLDED CASE CIRCUIT BREAKERS. MINIMUM INTERRUPTING CAPACITY SHALL BE 10,000 AMP SYMMETRICAL AT 208 VOLTS.
- ADDRESS QUESTIONS REGARDING DRAWINGS TO ARCHITECT IN WRITING BEFORE AWARD OF CONTRACT. OTHERWISE, ARCHITECT INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.
- SUBMIT SHOP DRAWINGS AND PRODUCT DATA WITHIN TEN (10) DAYS AFTER AWARD OF CONTRACT. CHECK, STAMP AND MARK WITH PROJECT NAMES SUBMITTALS BEFORE TRANSMITTING TO ENGINEER. INDICATE DEVIATIONS FROM CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE PROVIDED FOR ALL EQUIPMENT SHOWN ON THE DRAWINGS. PROVIDE SHOP DRAWINGS ON LIGHTING, CIRCUIT BREAKERS, CONDUIT, WIRING DEVICES, TIME CLOCK, PHOTOCELL, CABLE AND CONDUCTORS.
- SCHEDULE AT LEAST FIVE (5) WORKING DAYS, EXCLUSIVE ON TRANSMITTAL TIME FOR SUBMITTAL REVIEW.
- ALL WIRING SHALL BE RUN CONCEALED UNLESS SPECIFIED OTHERWISE.
- CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ENGINEER.
- BRANCH CIRCUIT WIRING MAY NOT BE SHOWN GRAPHICALLY ON DRAWINGS AND MAY BE INDICATED BY CIRCUIT NUMBERS BESIDE FIXTURES, DEVICES AND EQUIPMENT. PROVIDE COMPLETE WIRING SYSTEM WHETHER OR NOT INDICATED GRAPHICALLY.
- ALL NEW WIRING SHALL BE TYPE THHN/THWN RATED 75-90°C, 600V. WET-DRY LOCATIONS. MINIMUM BRANCH CIRCUIT WIRING SHALL BE NO. 10 AWG SOLID COPPER.
- EXTERIOR WIRING SHALL BE IN GALVANIZED RIGID METALLIC CONDUIT AND PVC SCHEDULE 40.
- ALL GROUNDING SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AS AMENDED BY THE STATE OF MASSACHUSETTS.
- PROVIDE TYPED IDENTIFICATION DIRECTORY IN LOADCENTER INDICATING CIRCUIT FUNCTION OR EQUIPMENT SERVED.
- ALL CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD, EXCEPT WHERE SPECIFIC DIMENSIONS AND DETAILS ARE SHOWN. ALL CONDUIT RUNS SHALL BE RIGIDLY SUPPORTED.
- NO CONDUIT SMALLER THAN 3/4 INCH ELECTRICAL TRADE SIZE SHALL BE USED, UNLESS SPECIFICALLY CALLED FOR ON THE DRAWINGS.
- PERFORM WORK AND PROVIDE MATERIALS AND EQUIPMENT TO MAKE INSTALLATION COMPLETE IN EVERY DETAIL UNDER THIS CONTRACT WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS.
- CONDUCTORS AND CABLE SHALL BE MINIMUM #10 AWG, 600 VOLT, COPPER WITH TYPE THHN/THWN INSULATION. PROVIDE SEPARATE GREEN GROUND IN ALL BRANCH CIRCUITS. #12 AWG AND SMALLER SHALL BE SOLID. COLOR CODE CONDUCTORS BLACK, RED, BLUE, WITH WHITE NEUTRAL AND GREEN GROUND EXCEPT AS NOTED FOR 120 VOLT.

ABBREVIATIONS

A/AMP	AMPERE	IMC	INTERMEDIATE METALLIC CONDUIT
AC	ALTERNATING CURRENT	JB	JUNCTION BOX
AF	AMPERE FRAME	KVA	KILOVOLT-AMPERE
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AFG	ABOVE FINISHED GRADE	LTG	LIGHTING
AIC	APRERE INTERRUPTING CAPACITY	PWR	POWER
AL	ALUMINUM	MCB	MAIN CIRCUIT BREAKER
AT	AMPERE TRIP	MEC	MASSACHUSETTS ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUGS ONLY
AWG	AMERICAN WIRE GAUGE	MTG	MOUNTING
C	CONDUIT	MTD	MOUNTED
CKT	CIRCUIT	MCC	MOTOR CONTROL CENTER
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
CJ	COPPER	NS	NON-SYSTEM
CL	CENTERLINE	NTS	NOT TO SCALE
DC	DIRECT CURRENT	No., #	NUMBER
DE	DUAL ELEMENT	PC	PLUMBING CONTRACTOR
DWG	DRAWING	RPM	REVOLUTIONS PER MINUTE
EC	ELECTRICAL CONTRACTOR	RMS	ROOT MEAN SQUARE VALUE
EMH	ELECTRICAL MANHOLE	RGS	RIGID STEEL CONDUIT
EWC	ELECTRIC WATER COOLER	SF	SQUARE FOOT
EMT	ELECTRIC METALLIC CONDUIT	SN	SOLID NEUTRAL
FLMT	FLEXIBLE LIQUID TIGHT METALLIC TUBING	SWBD	SWITCHBOARD
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GND	GROUND	V	VOLTS
GF	GROUND FAULT INTERRUPTING	VA	VOLT-AMPERE
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSEPOWER	WP	WEATHERPROOF

BRANCH CIRCUIT AND FEEDER SYMBOLS

- BRANCH CIRCUIT OR FEEDER CONCEALED UNLESS OTHERWISE NOTED
- BRANCH CIRCUIT DIAGONAL LINES INDICATE NUMBER OR CONDUCTORS, NO DIAGONAL LINES INDICATES TWO (2) CONDUCTORS (1 PHASE AND 1 NEUTRAL). GROUND WIRE(S) NOT INDICATED. MINIMUM SIZE CONDUCTOR #10 AWG AND 3/4" CONDUIT, UNLESS OTHERWISE NOTED
- 4#1,1#6G-1/2" INDICATES (3) #1 AWG(PHASE), (1)#1 AWG(NEUTRAL), (1) #6 GROUND IN A 1-1/2" CONDUIT
- PP1-1 20A/1P HOMERUN TO PANELBOARD "P1" CIRCUIT NUMBER 1. DIAGONAL LINES INDICATE (1) PHASE AND (1) NEUTRAL CONDUCTOR. (1) GROUNDING CONDUCTOR UNDERSTOOD.
- PP1-1,3 (2)20A/1P HOMERUN TO PANELBOARD "P1" CIRCUIT NUMBER 1 & 3. DIAGONAL LINES INDICATE (2) PHASE AND (2) NEUTRAL CONDUCTOR. (2) GROUNDING CONDUCTOR UNDERSTOOD.

LIGHTING FIXTURE SYMBOLS

- POLE TOP MOUNTED LIGHT FIXTURE, "B" DENOTES LIGHTING FIXTURE TYPE, "4" DENOTES CIRCUIT NUMBER. SEE DETAIL 1, THIS DRAWING.
- SIDE POLE MOUNTED SPOT LIGHT LIGHT FIXTURE, "A" DENOTES LIGHTING FIXTURE TYPE, "4" DENOTES CIRCUIT NUMBER.

RECEPTACLES AND OUTLETS

- DUPLEX GROUND FAULT INTERRUPTING RECEPTACLE, RATED 20A, 125V TYPE, "5" DENOTES CIRCUIT NUMBER, MOUNTING HEIGHT 18" TO CENTERLINE AFF. WP DENOTES A WATER TIGHT WHILE IN USE ENCLOSURE. PASS&SEYMOUR#26262-HGI

LOADCENTER AND CONTROLS

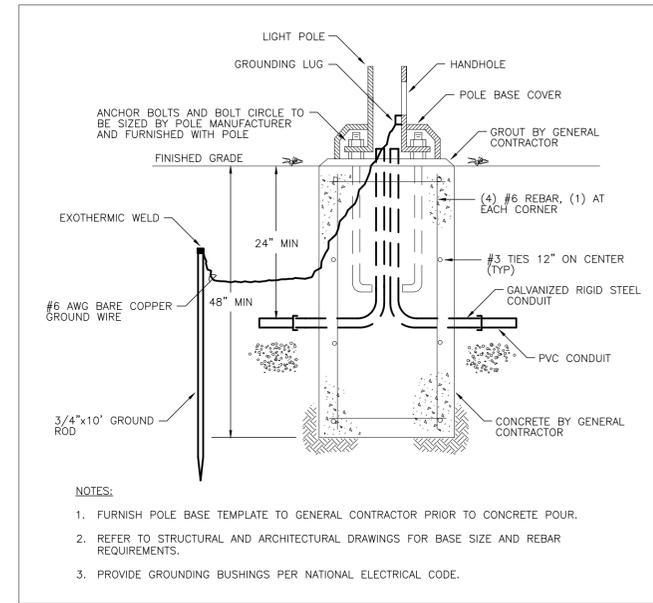
- POWER LOADCENTER, SURFACE MOUNTED, 120/208 VOLT
- EQUIPMENT CONTROL PANEL

SITE SYMBOLS

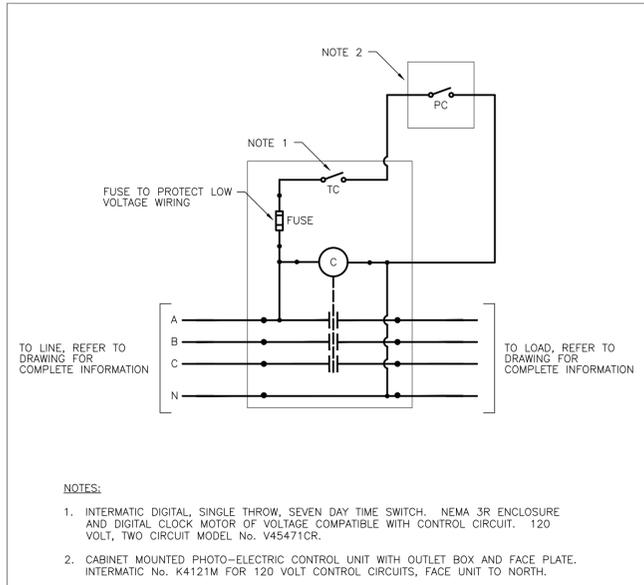
- UNDERGROUND CONDUIT OR DUCTBANK

MISCELLANEOUS

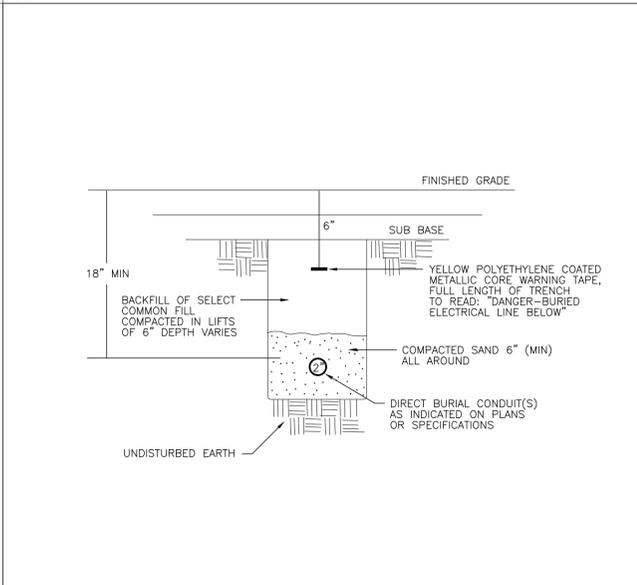
- UTILITY METER
- TIME CLOCK.



1 SITE LIGHTING POLE BASE DETAIL N.T.S.



2 TIME SWITCH PHOTOCELL CONTROLLED CONTACTOR DETAIL N.T.S.



3 DIRECT BURIAL CONDUIT DETAIL N.T.S.



PROJECT
LAFAYETTE PARK

Lafayette St
Salem, MA 01970

BID SET

No. Date Revision
CONSULTANTS:
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311 Great Road, Post Office Box 1551
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T: 978.486.4301 F: 978.428.0067
www.blweng.com
IFC-ELECTRICAL *PLUMBING *FIRE PROTECTION

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DATE:
June 14, 2017
PROJECT NUMBER:
1612
SCALE:
NTS
DRAWING TITLE:
ELECTRICAL
SPECIFICATIONS
SYMBOLS AND
DETAILS

E0.1



PROJECT
LAFAYETTE PARK
Lafayette St
Salem, MA 01970

BID SET

No. Date Revision
CONSULTANTS:



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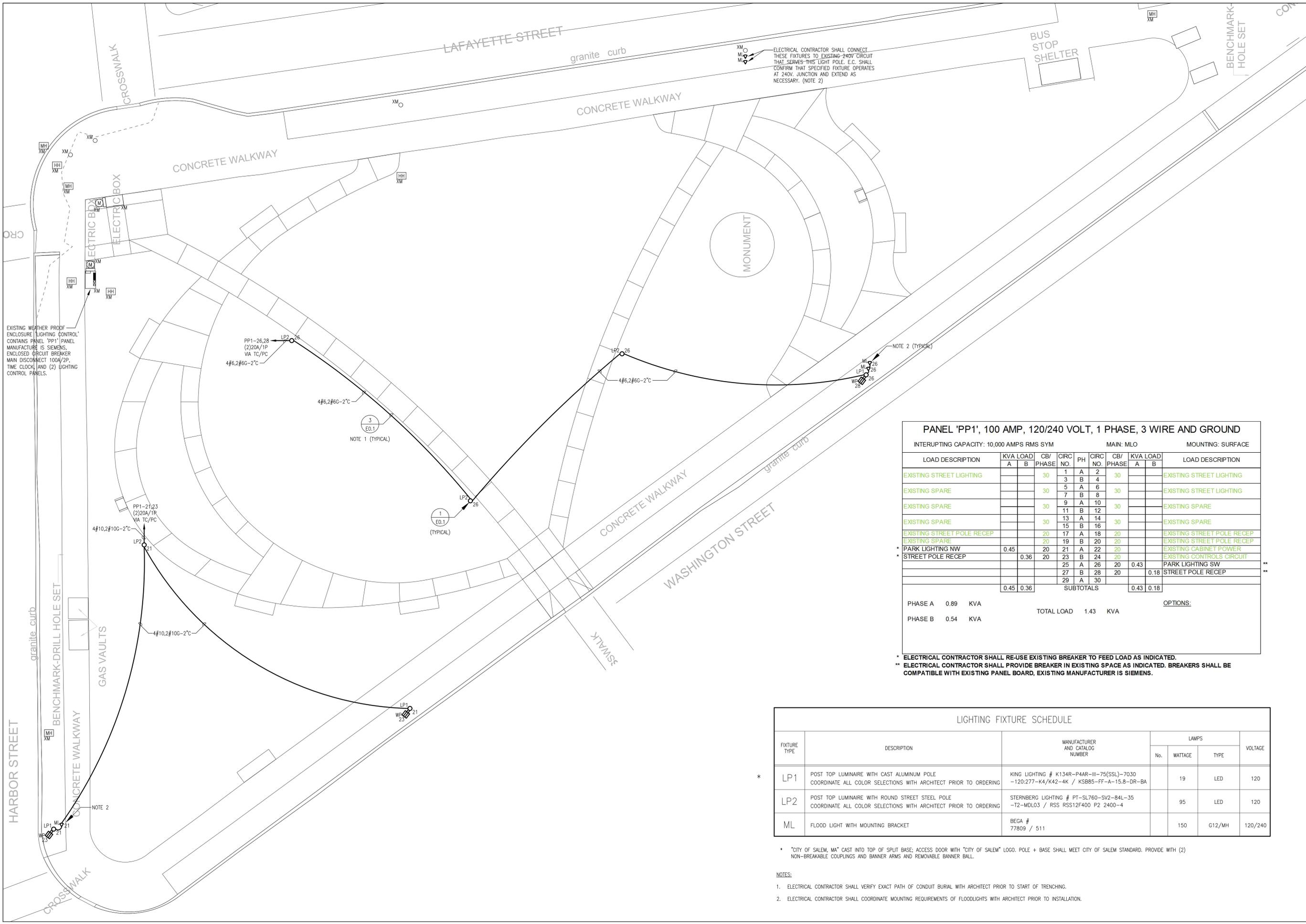


DATE:
June 14, 2017

PROJECT NUMBER: 1612 SCALE: 1"=10'-0"

DRAWING TITLE:
ELECTRICAL
SITE PLAN

E1.0



ELECTRICAL CONTRACTOR SHALL CONNECT THESE FIXTURES TO EXISTING 240V CIRCUIT THAT SERVES THIS LIGHT POLE. E.C. SHALL CONFIRM THAT SPECIFIED FIXTURE OPERATES AT 240V. JUNCTION AND EXTEND AS NECESSARY. (NOTE 2)

EXISTING WEATHER PROOF ENCLOSURE LIGHTING CONTROL CONTAINS PANEL 'PP1' PANEL MANUFACTURE IS SIEMENS. ENCLOSED CIRCUIT BREAKER MAIN DISCONNECT 100A/2P, TIME CLOCK, AND (2) LIGHTING CONTROL PANELS.

PANEL 'PP1', 100 AMP, 120/240 VOLT, 1 PHASE, 3 WIRE AND GROUND											
INTERUPTING CAPACITY: 10,000 AMPS RMS SYM						MAIN: MLO			MOUNTING: SURFACE		
LOAD DESCRIPTION	KVA LOAD		CB/ PHASE	CIRC NO.	PH	CIRC NO.	CB/ PHASE	KVA LOAD		LOAD DESCRIPTION	
	A	B						A	B		
EXISTING STREET LIGHTING			30	1	A	2	30			EXISTING STREET LIGHTING	
EXISTING SPARE			30	3	A	6	30			EXISTING STREET LIGHTING	
EXISTING SPARE			30	7	B	8				EXISTING SPARE	
EXISTING SPARE			30	9	A	10	30			EXISTING SPARE	
EXISTING SPARE			30	11	B	12				EXISTING SPARE	
EXISTING STREET POLE RECEP			20	13	A	14	20			EXISTING STREET POLE RECEP	
EXISTING SPARE			20	15	B	16	20			EXISTING STREET POLE RECEP	
* PARK LIGHTING NW	0.45		20	17	A	18	20			EXISTING CABINET POWER	
* STREET POLE RECEP		0.36	20	19	B	20	20			EXISTING CONTROLS CIRCUIT	
				21	A	22	20			PARK LIGHTING SW	
				23	B	24	20			STREET POLE RECEP	
				25	A	26	20	0.43			
				27	B	28	20		0.18		
				29	A	30					
SUBTOTALS								0.43	0.18		
PHASE A	0.89	KVA	TOTAL LOAD		1.43	KVA	OPTIONS:				
PHASE B	0.54	KVA									

* ELECTRICAL CONTRACTOR SHALL RE-USE EXISTING BREAKER TO FEED LOAD AS INDICATED.
** ELECTRICAL CONTRACTOR SHALL PROVIDE BREAKER IN EXISTING SPACE AS INDICATED. BREAKERS SHALL BE COMPATIBLE WITH EXISTING PANEL BOARD. EXISTING MANUFACTURER IS SIEMENS.

LIGHTING FIXTURE SCHEDULE						
FIXTURE TYPE	DESCRIPTION	MANUFACTURER AND CATALOG NUMBER	LAMPS			VOLTAGE
			No.	WATTAGE	TYPE	
* LP1	POST TOP LUMINAIRE WITH CAST ALUMINUM POLE COORDINATE ALL COLOR SELECTIONS WITH ARCHITECT PRIOR TO ORDERING	KING LIGHTING # K134R-P44R-III-75(SSU)-7030 -120-277-K4/K42-4K / KSB85-FF-A-15.8-DR-BA	19		LED	120
LP2	POST TOP LUMINAIRE WITH ROUND STREET STEEL POLE COORDINATE ALL COLOR SELECTIONS WITH ARCHITECT PRIOR TO ORDERING	STERNBERG LIGHTING # PT-SL760-SV2-84L-35 -T2-MDL03 / RSS RSS12F400 P2 2400-4	95		LED	120
ML	FLOOD LIGHT WITH MOUNTING BRACKET	BEGA # 77809 / 511	150		G12/MH	120/240

* "CITY OF SALEM, MA" CAST INTO TOP OF SPLIT BASE; ACCESS DOOR WITH "CITY OF SALEM" LOGO. POLE + BASE SHALL MEET CITY OF SALEM STANDARD. PROVIDE WITH (2) NON-BREAKABLE COUPLINGS AND BANNER ARMS AND REMOVABLE BANNER BALL.

- NOTES:
- ELECTRICAL CONTRACTOR SHALL VERIFY EXACT PATH OF CONDUIT BURIAL WITH ARCHITECT PRIOR TO START OF TRENCHING.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE MOUNTING REQUIREMENTS OF FLOODLIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.