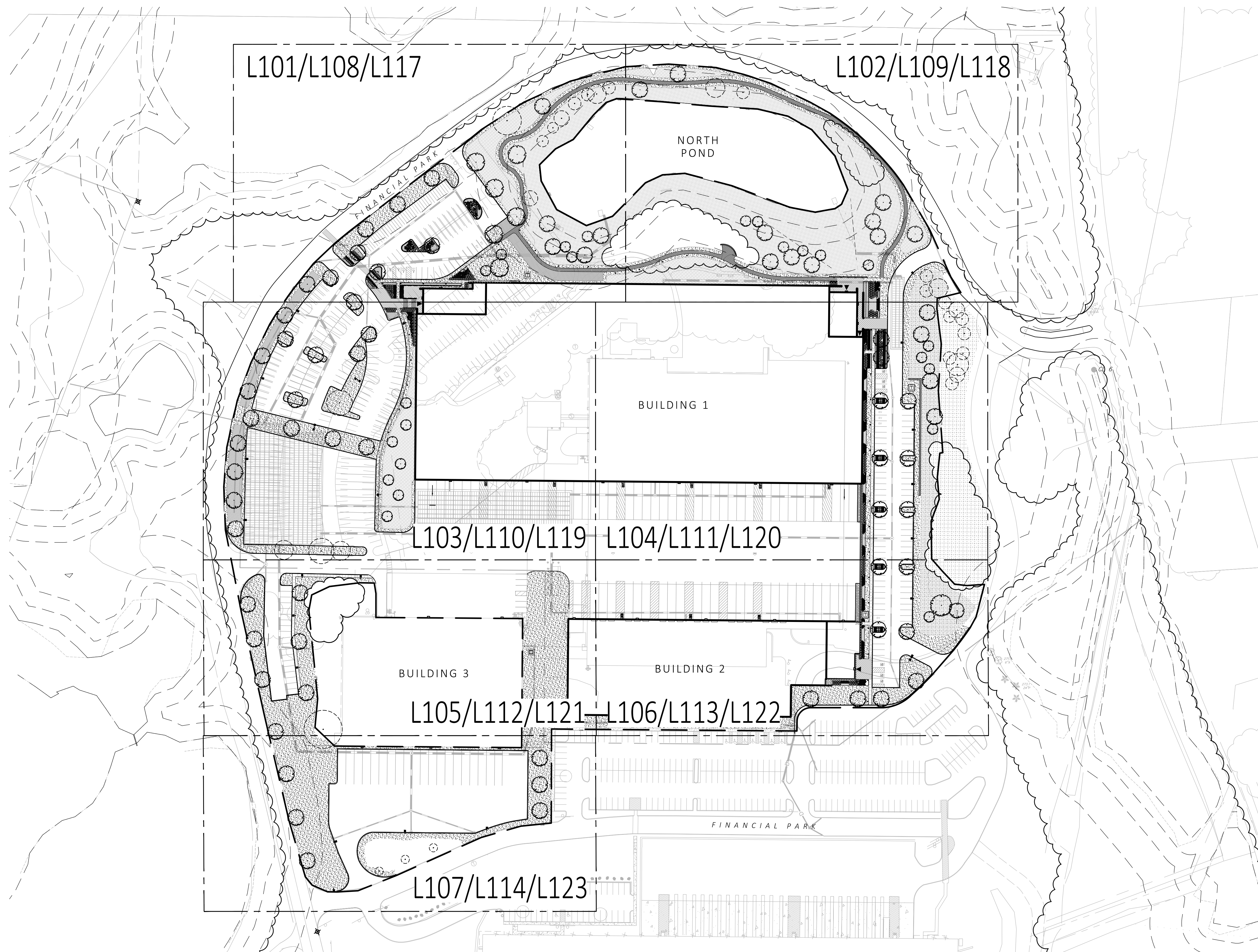


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1 SHEET LAYOUT KEY PLAN
SCALE: 1" = 80'-0"

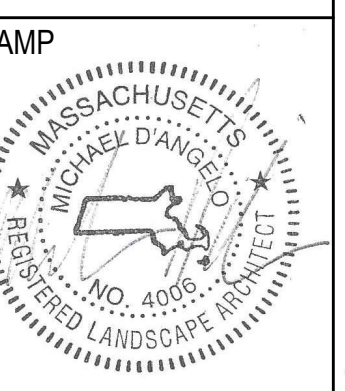


MDLA
MICHAEL D'ANGELO landscape architecture

MICHAEL D'ANGELO
LANDSCAPE ARCHITECTURE LLC
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CLIENT
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1 WASHINGTON MALL, SUITE 701
BOSTON, MA

PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA



REV. NO.	DATE	DESCRIPTION
	5/11/23	FOR PERMIT
1	7/17/23	RESPONSE TO COMMENTS
2	8/10/23	RESPONSE TO COMMENTS
3	8/23/23	RESPONSE TO COMMENTS

KEY PLAN

DRAWN:
NC
CHECKED:
AS NOTED
SCALE:
AS NOTED
DATE:
5/11/2023

L100

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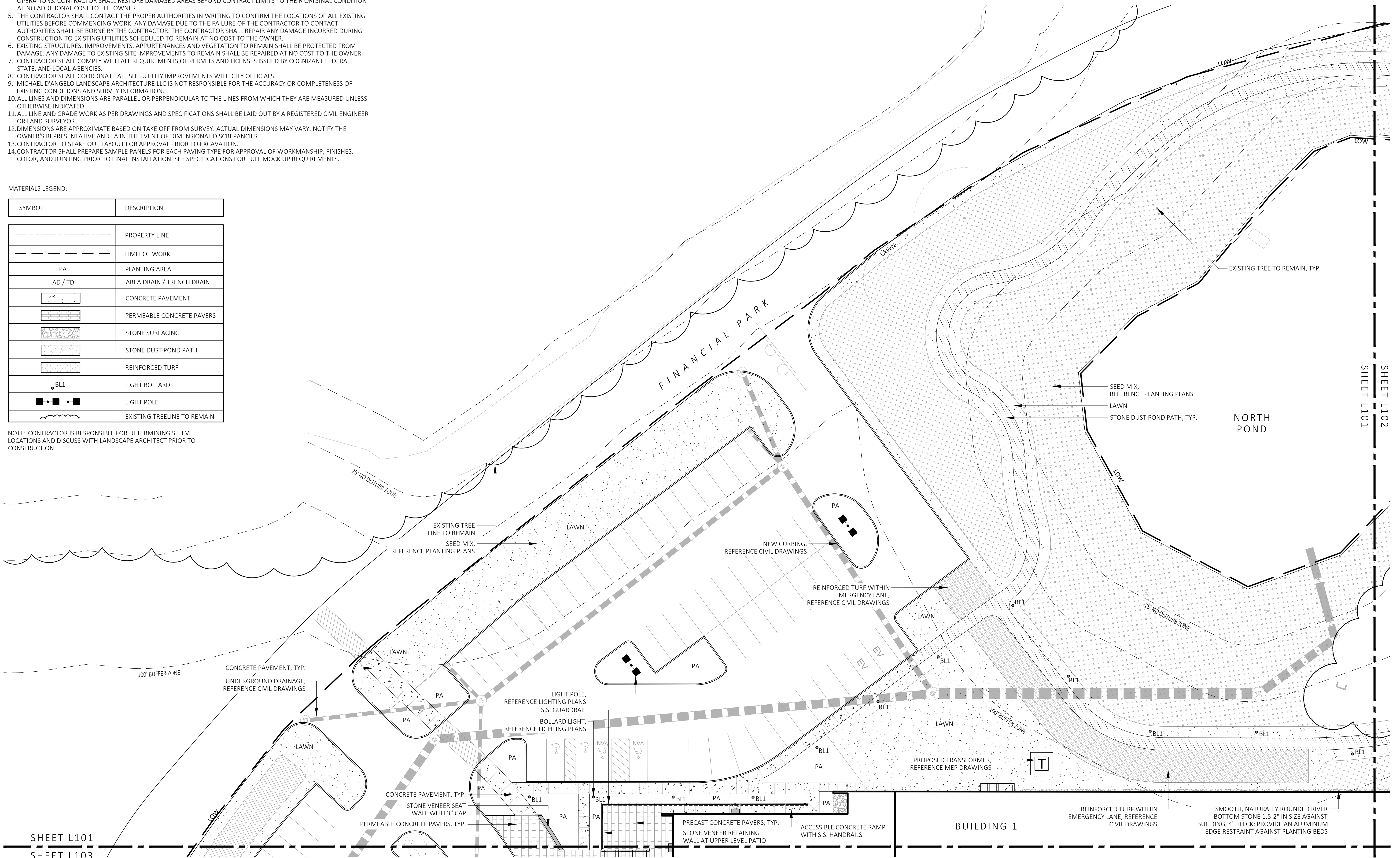
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MATERIALS LEGEND:

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---	PROPERTY LINE
- - -	LIMIT OF WORK
PA	PLANTING AREA
AD / TD	AREA DRAIN / TRENCH DRAIN
[Pattern]	CONCRETE PAVEMENT
[Pattern]	PERMEABLE CONCRETE PAVERS
[Pattern]	STONE SURFACING
[Pattern]	STONE DUST POND PATH
[Pattern]	REINFORCED TURF
BL1	LIGHT BOLLARD
[Symbol]	LIGHT POLE
[Symbol]	EXISTING TREELINE TO REMAIN

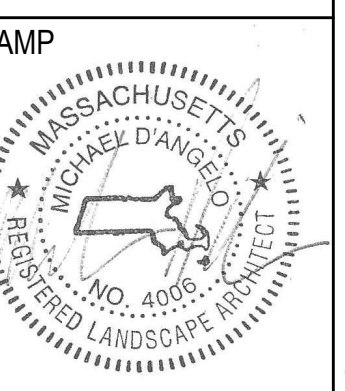
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SHEET L101
SHEET L103

SHEET L101
SHEET L102

1 MATERIALS PLAN
SCALE: 1" = 20'-0"

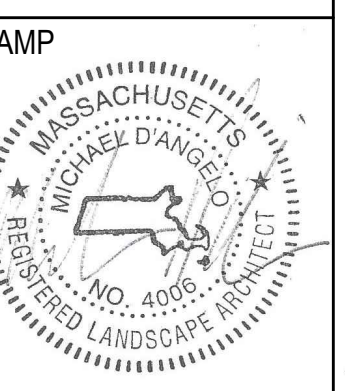


REV. NO.	DATE	DESCRIPTION
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1	7/17/23	RESPONSE TO COMMENTS
2	8/10/23	RESPONSE TO COMMENTS
3	8/28/23	RESPONSE TO COMMENTS

MATERIALS PLAN

DRAWN: NC	L101
CHECKED: AS NOTED	
SCALE: AS NOTED	
DATE: 5/11/2023	
SHEET 02 OF 24	

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REV. NO.	DATE	DESCRIPTION
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2	8/10/23	RESPONSE TO COMMENTS
3	8/23/23	RESPONSE TO COMMENTS

MATERIALS PLAN

DRAWN: NC	L102
CHECKED: AS NOTED	
SCALE: AS NOTED	
DATE: 5/11/2023	

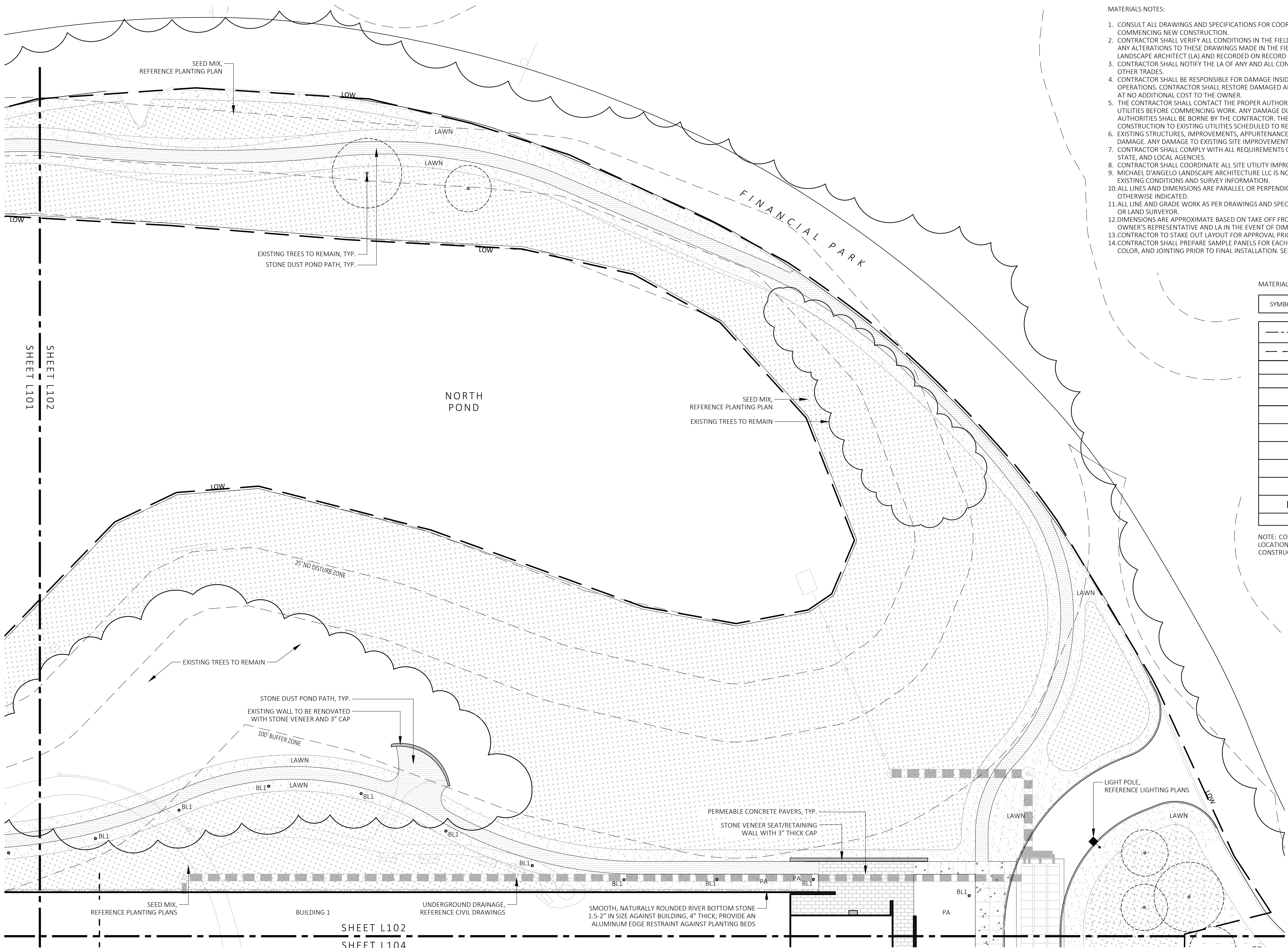
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[Pattern]	REINFORCED TURF
BL1	LIGHT BOLLARD
[Symbol]	LIGHT POLE
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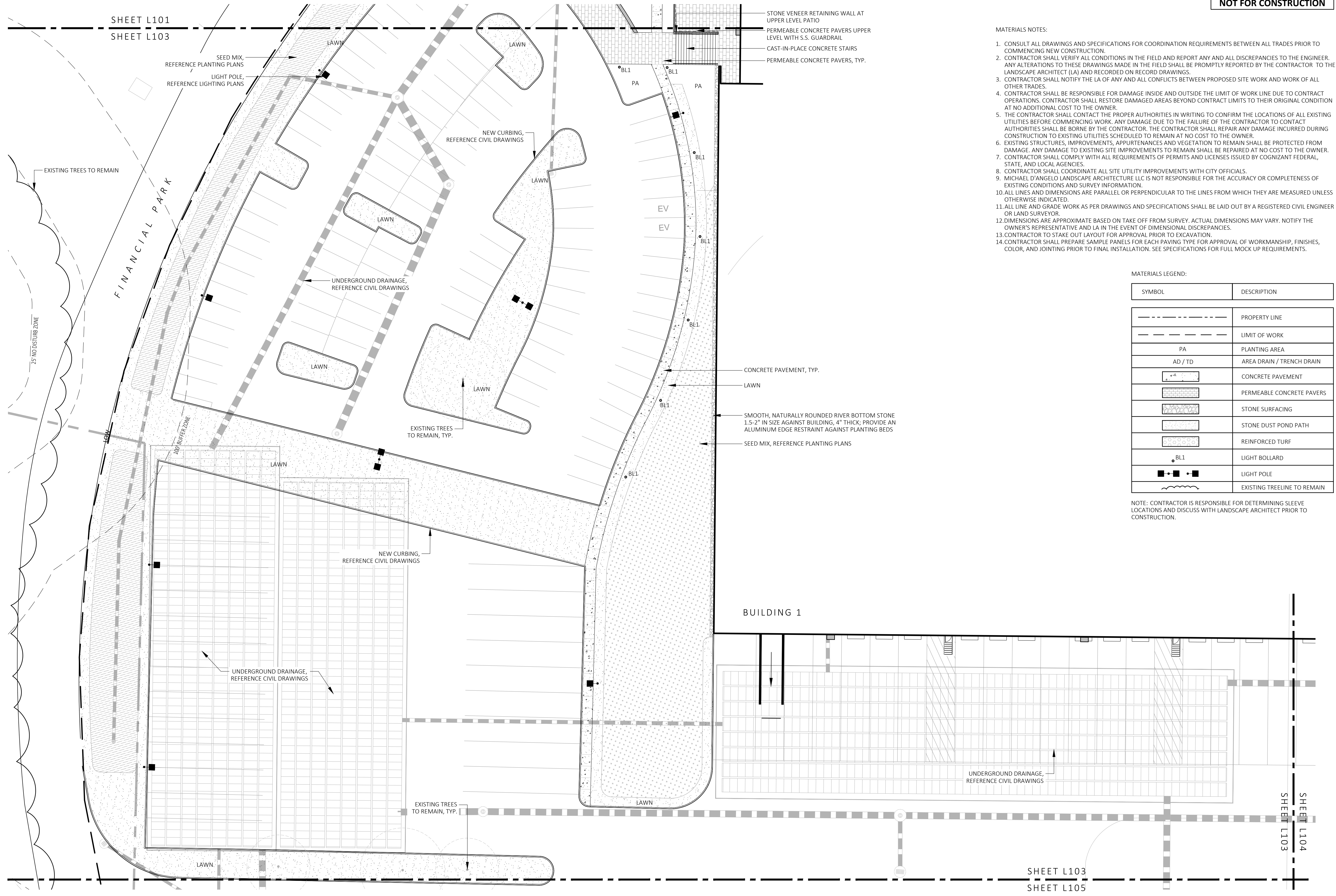


SHEET L102
SHEET L104

1 MATERIALS PLAN
SCALE: 1" = 20'-0"



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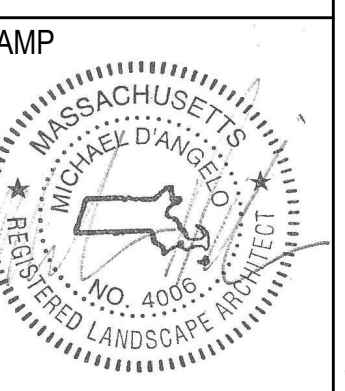


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STAMP

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1	7/17/23	RESPONSE TO COMMENTS
2	8/10/23	RESPONSE TO COMMENTS
3	8/23/23	RESPONSE TO COMMENTS

MATERIALS PLAN

DRAWN: NC	L103
CHECKED: AS NOTED	
SCALE: AS NOTED	
DATE: 5/11/2023	
SHEET 04 OF 24	

1 MATERIALS PLAN
SCALE: 1" = 20'-0"



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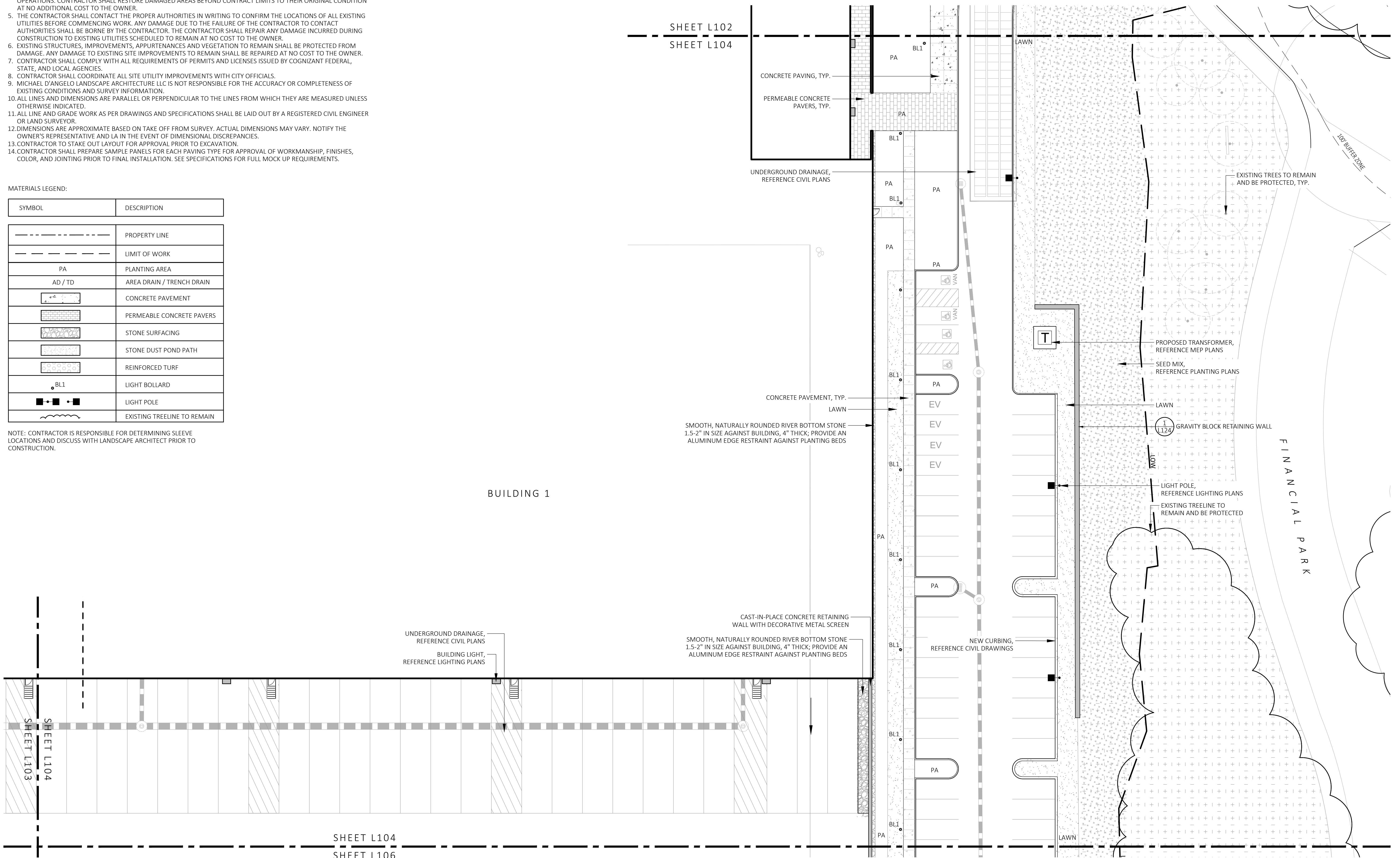
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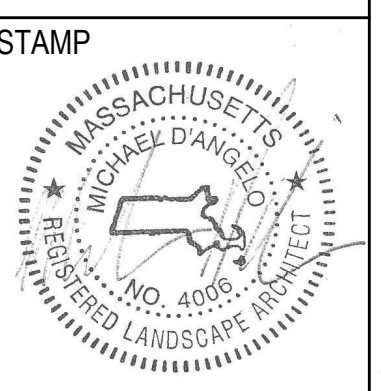
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1 MATERIALS PLAN
SCALE: 1" = 20'-0"



REV. NO.	DATE	DESCRIPTION
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2	8/10/23	RESPONSE TO COMMENTS
3	8/25/23	RESPONSE TO COMMENTS

MATERIALS PLAN

DRAWN: NC	L104
CHECKED: AS NOTED	
SCALE: AS NOTED	
DATE: 5/11/2023	
SHEET 5 OF 24	

MATERIALS NOTES:

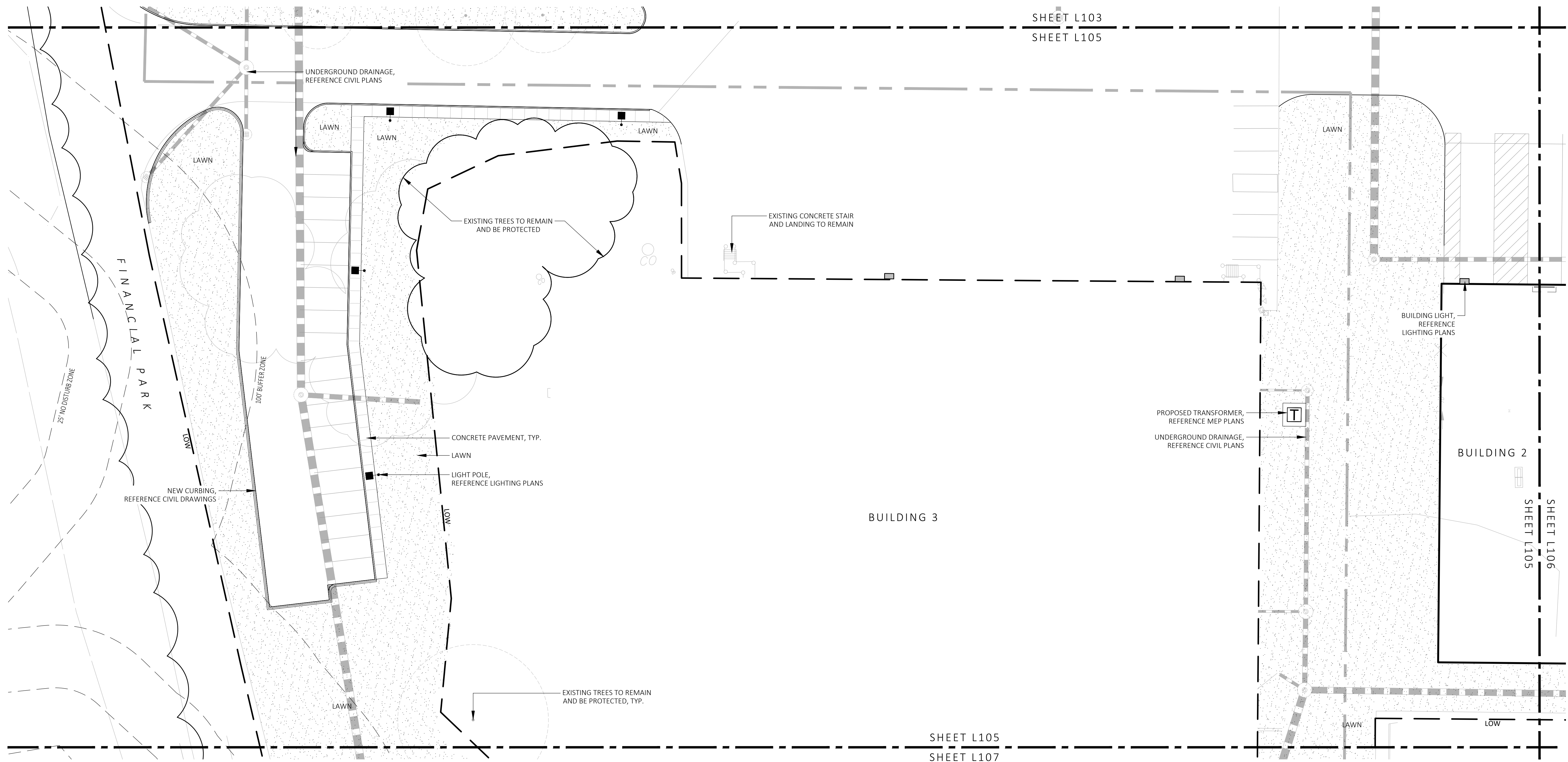
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1 MATERIALS PLAN
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MDLA
MICHAEL D'ANGELO landscape architecture

MICHAEL D'ANGELO
LANDSCAPE ARCHITECTURE LLC

840 SUMMER STREET
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T. 203.592.4788
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CLIENT
BERKELEY PARTNERS
1 WASHINGTON MALL, SUITE 701
BOSTON, MA

PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA

STAMP
MICHAEL D'ANGELO
REGISTERED LANDSCAPE ARCHITECT
NO. 4098

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MATERIALS PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: AS NOTED
DATE: 5/11/2023

L105

SHEET 6 OF 24

plot date: 8/25/2023

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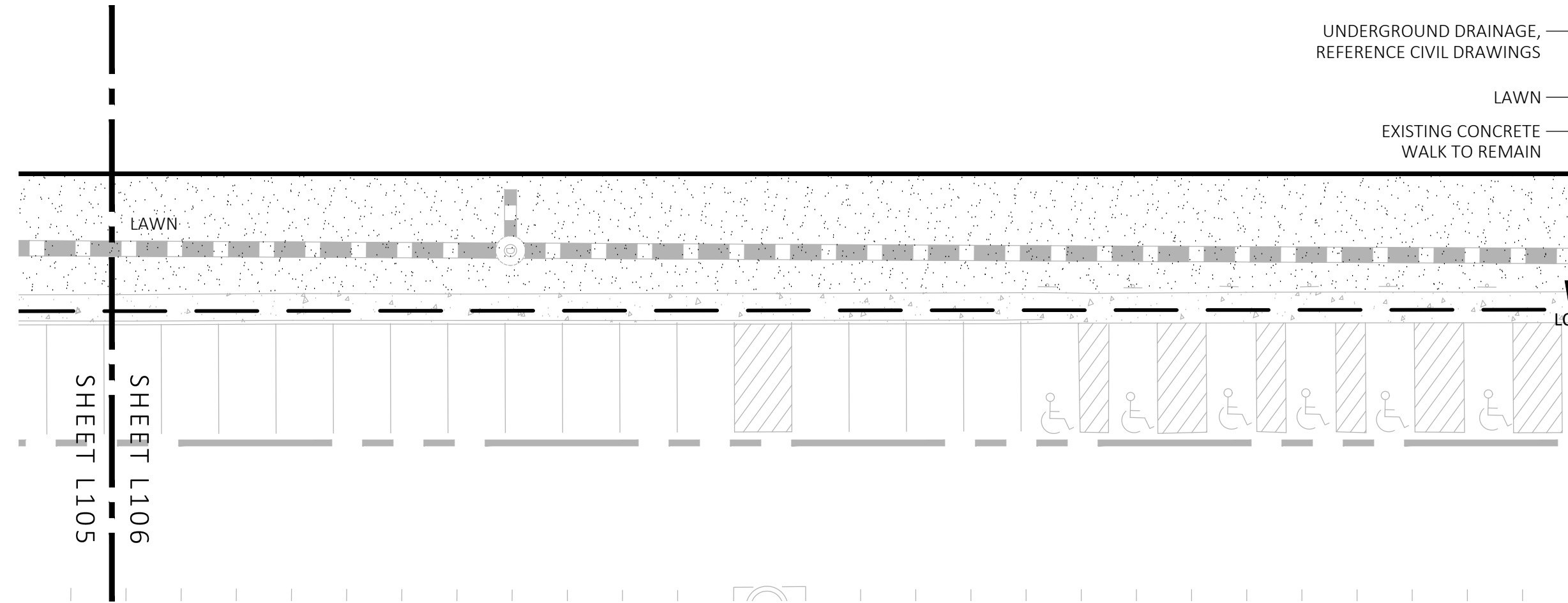
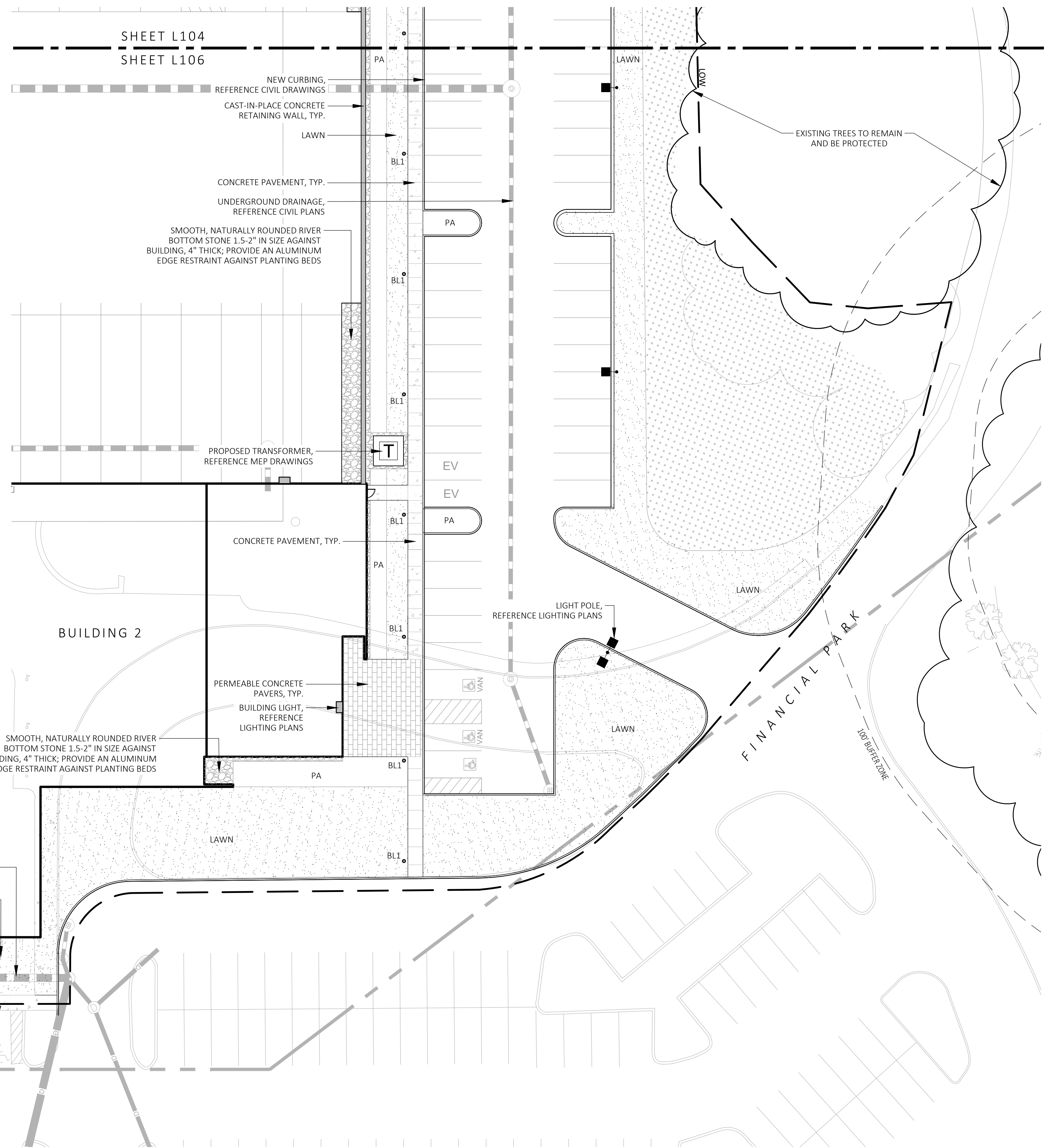
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- DIMENSIONS ARE APPROXIMATE BASED ON TAKE OFF FROM SURVEY. ACTUAL DIMENSIONS MAY VARY. NOTIFY THE OWNER'S REPRESENTATIVE AND LA IN THE EVENT OF DIMENSIONAL DISCREPANCIES.
- CONTRACTOR TO STAKE OUT LAYOUT FOR APPROVAL PRIOR TO EXCAVATION.
- CONTRACTOR SHALL PREPARE SAMPLE PANELS FOR EACH PAVING TYPE FOR APPROVAL OF WORKMANSHIP, FINISHES, COLOR, AND JOINTING PRIOR TO FINAL INSTALLATION. SEE SPECIFICATIONS FOR FULL MOCK UP REQUIREMENTS.

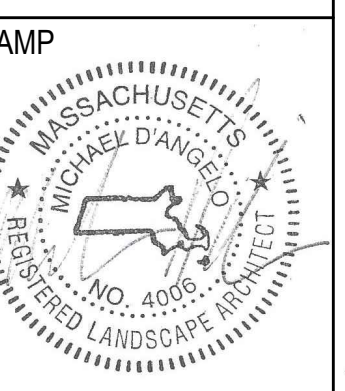
MATERIALS LEGEND:

SYMBOL	DESCRIPTION
---	PROPERTY LINE
- - - -	LIMIT OF WORK
PA	PLANTING AREA
AD / TD	AREA DRAIN / TRENCH DRAIN
[Pattern]	CONCRETE PAVEMENT
[Pattern]	PERMEABLE CONCRETE PAVERS
[Pattern]	STONE SURFACING
[Pattern]	STONE DUST POND PATH
[Pattern]	REINFORCED TURF
BL1	LIGHT BOLLARD
[Symbol]	LIGHT POLE
[Symbol]	EXISTING TREELINE TO REMAIN

NOTE: CONTRACTOR IS RESPONSIBLE FOR DETERMINING SLEEVE LOCATIONS AND DISCUSS WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.



1 MATERIALS PLAN
SCALE: 1" = 20'-0"



REV. NO.	DATE	DESCRIPTION
	5/11/23	FOR PERMIT
1	7/17/23	RESPONSE TO COMMENTS
2	8/10/23	RESPONSE TO COMMENTS
3	8/23/23	RESPONSE TO COMMENTS

MATERIALS PLAN

DRAWN: NC	L106
CHECKED: AS NOTED	
SCALE: AS NOTED	
DATE: 5/11/2023	

MATERIALS NOTES:

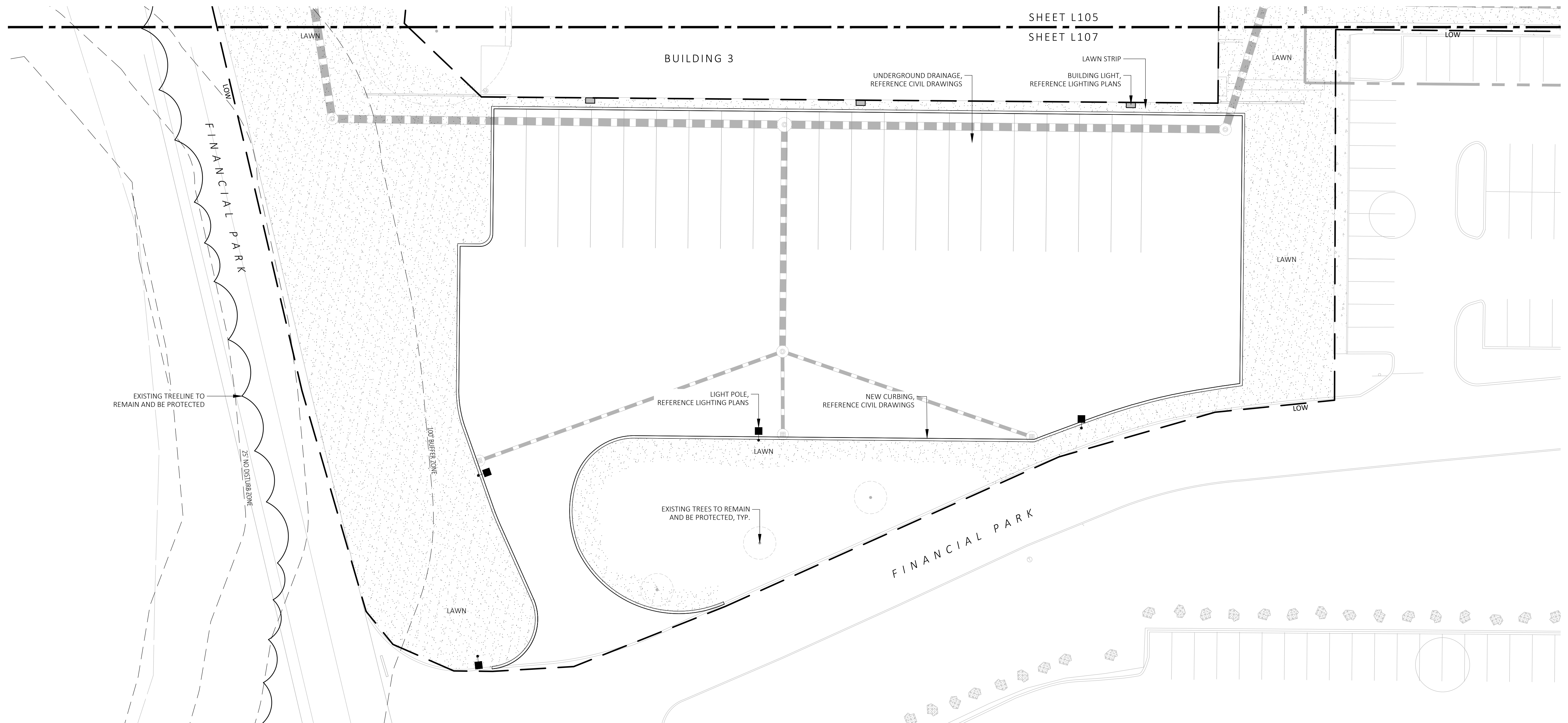
1. CONSULT ALL DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BETWEEN ALL TRADES PRIOR TO COMMENCING NEW CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND REPORT ANY AND ALL DISCREPANCIES TO THE ENGINEER. ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD SHALL BE PROMPTLY REPORTED BY THE CONTRACTOR TO THE LANDSCAPE ARCHITECT (LA) AND RECORDED ON RECORD DRAWINGS.
3. CONTRACTOR SHALL NOTIFY THE LA OF ANY AND ALL CONFLICTS BETWEEN PROPOSED SITE WORK AND WORK OF ALL OTHER TRADES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE INSIDE AND OUTSIDE THE LIMIT OF WORK LINE DUE TO CONTRACT OPERATIONS. CONTRACTOR SHALL RESTORE DAMAGED AREAS BEYOND CONTRACT LIMITS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL CONTACT THE PROPER AUTHORITIES IN WRITING TO CONFIRM THE LOCATIONS OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO THE FAILURE OF THE CONTRACTOR TO CONTACT AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY DAMAGE INCURRED DURING CONSTRUCTION TO EXISTING UTILITIES SCHEDULED TO REMAIN AT NO COST TO THE OWNER.
6. EXISTING STRUCTURES, IMPROVEMENTS, APPURTENANCES AND VEGETATION TO REMAIN SHALL BE PROTECTED FROM DAMAGE. ANY DAMAGE TO EXISTING SITE IMPROVEMENTS TO REMAIN SHALL BE REPAIRED AT NO COST TO THE OWNER.
7. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF PERMITS AND LICENSES ISSUED BY COGNIZANT FEDERAL, STATE, AND LOCAL AGENCIES.
8. CONTRACTOR SHALL COORDINATE ALL SITE UTILITY IMPROVEMENTS WITH CITY OFFICIALS.
9. MICHAEL D'ANGELO LANDSCAPE ARCHITECTURE LLC IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF EXISTING CONDITIONS AND SURVEY INFORMATION.
10. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
11. ALL LINE AND GRADE WORK AS PER DRAWINGS AND SPECIFICATIONS SHALL BE LAID OUT BY A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR.
12. DIMENSIONS ARE APPROXIMATE BASED ON TAKE OFF FROM SURVEY. ACTUAL DIMENSIONS MAY VARY. NOTIFY THE OWNER'S REPRESENTATIVE AND LA IN THE EVENT OF DIMENSIONAL DISCREPANCIES.
13. CONTRACTOR TO STAKE OUT LAYOUT FOR APPROVAL PRIOR TO EXCAVATION.
14. CONTRACTOR SHALL PREPARE SAMPLE PANELS FOR EACH PAVING TYPE FOR APPROVAL OF WORKMANSHIP, FINISHES, COLOR, AND JOINTING PRIOR TO FINAL INSTALLATION. SEE SPECIFICATIONS FOR FULL MOCK UP REQUIREMENTS.

MATERIALS LEGEND:

SYMBOL	DESCRIPTION
---	PROPERTY LINE
- - - - -	LIMIT OF WORK
PA	PLANTING AREA
AD / TD	AREA DRAIN / TRENCH DRAIN
[Symbol]	CONCRETE PAVEMENT
[Symbol]	PERMEABLE CONCRETE PAVERS
[Symbol]	STONE SURFACING
[Symbol]	STONE DUST POND PATH
[Symbol]	REINFORCED TURF
BL1	LIGHT BOLLARD
[Symbol]	LIGHT POLE
[Symbol]	EXISTING TREELINE TO REMAIN

NOTE: CONTRACTOR IS RESPONSIBLE FOR DETERMINING SLEEVE LOCATIONS AND DISCUSS WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

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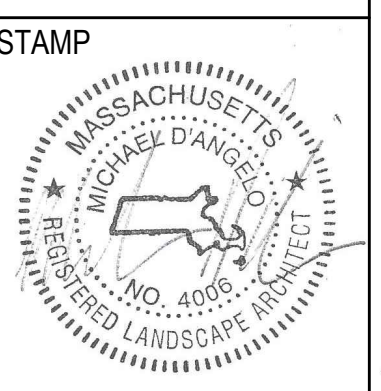
1 MATERIALS PLAN
SCALE: 1" = 20'-0"



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BOSTON, MA

PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA



REV. NO.	DATE	DESCRIPTION
	5/11/23	FOR PERMIT
1	7/17/23	RESPONSE TO COMMENTS
2	8/10/23	RESPONSE TO COMMENTS
3	8/23/23	RESPONSE TO COMMENTS

MATERIALS PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: L107
AS NOTED
DATE: 5/11/2023

BIORETENTION PLANT SCHEDULE			
SYMBOL	QTY.	LATIN NAME	COMMON NAME
TREES			
NS	2	NYSSA SYLVATICA	BLACK GUM
QB	2	QUERCUS BICOLOR	SWAMP WHITE OAK
QP	3	QUERCUS PALUSTRIS	PIN OAK
SHRUBS			
CA		CLETHRA ALNIFOLIA	SWEET PEPPERBUSH
CS		CORNUS SERICEA	RED OSIER DOGWOOD
IG		ILEX GLABRA	INKBERRY
IV		ILEX VERTICILLATA	WINTERBERRY
LB		LINDERA BENZOIN	SPICEBUSH
VD		VIBURNUM DENTATUM	ARROWWOOD
GRASSES			
AG		ANDROPOGON VIRGINICUS	BROOMSEDE
DC		DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS
HH		HEDERA HELIX	ENGLISH IVY
LC		LOTUS CORNICULATUS	BIRD'S-FOOT TREFOIL
PV		PANICUM VIRGATUM	SWITCH GRASS
RL		RUDBECKIA LACINIATA	GREEN-HEADED CONEFLOWER
SS		SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM

PLANT SCHEDULE				
SYMBOL	QTY.	LATIN NAME	COMMON NAME	SIZE
TREES				
AR	24	ACER RUBRUM	RED MAPLE	3"-3.5" CAL.
AC	5	AMELANCHIER CANADENSIS	SHADBLow SERVICEBERRY	8-10' HT
BP	10	BETULA POPULIFOLIA	GRAY BIRCH	3"-3.5" CAL.
PS	10	PINUS STROBUS	EASTERN WHITE PINE	3"-3.5" CAL.
PSC	17	PRUNUS SEROTINA	BLACK CHERRY	3"-3.5" CAL.
PH	16	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	3"-3.5" CAL.
TA	16	TILIA AMERICANA	BASSWOOD	3"-3.5" CAL.
SHRUBS & ORNAMENTAL GRASSES - TYPE A				
		CLETHRA ALNIFOLIA	PEPPERBUSH	5 GAL
		HYDRANGEA QUERCIFOLIA	OAK-LEAVED HYDRANGEA	3"-3.5" TALL
		ILEX GLABRA	INKBERRY	36" O.C. B&B
		ILEX VERTICILLATA	COMMON WINTERBERRY	36" O.C. B&B
		KALMIA LATIFOLIA	MOUNTAIN LAUREL	3" TALL
		RHUS AROMATICA	FRAGRANT SUMAC	36" O.C. B&B
		VIBURNUM DENTATUM	ARROWWOOD	36" O.C. B&B
SHRUBS & ORNAMENTAL GRASSES - TYPE B				
		COMPTONIA PEREGRINA	SWEET-FERN	2 GAL
		IRIS VERSICOLOR	BLUE FLAG IRIS	24" O.C. CONTAINER
		PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	24" O.C. B&B
PERENNIALS				
		CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	1 GAL
		ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL
		GERANIUM DALMATIUM	CRANESBILL	1 GAL
SEED MIX				
		ERNST SEEDS 800-873-3321	ERNST MIX (ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX	75 LB/ACRE
		ERNST SEEDS 800-873-3321	ERNST MIX (ERNMX-180) RAIN GARDEN MIX	20 LB/ACRE

LIGHT SCHEDULE					
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS
BL1	ARLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U		CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY
SL3	BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-3-U BEACON 555-B POLE 555-B-20-40-A-1-83-FINISH		CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK
SL4	BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON 555-B POLE 555-B-20-40-A-1-83-FINISH		CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK
SL4-2	BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON 555-B POLE 555-B-20-40-A-1-83-FINISH		CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	BACK BACK	COLOR: BLK
WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U		BUILDING MOUNT	SINGLE	COLOR: BLK
WL2	BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U		BUILDING MOUNT	SINGLE	COLOR: BLK
WL3	DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8		ALUMINUM CHANNEL	RECESSED WALL LIGHT	COLOR: BLK

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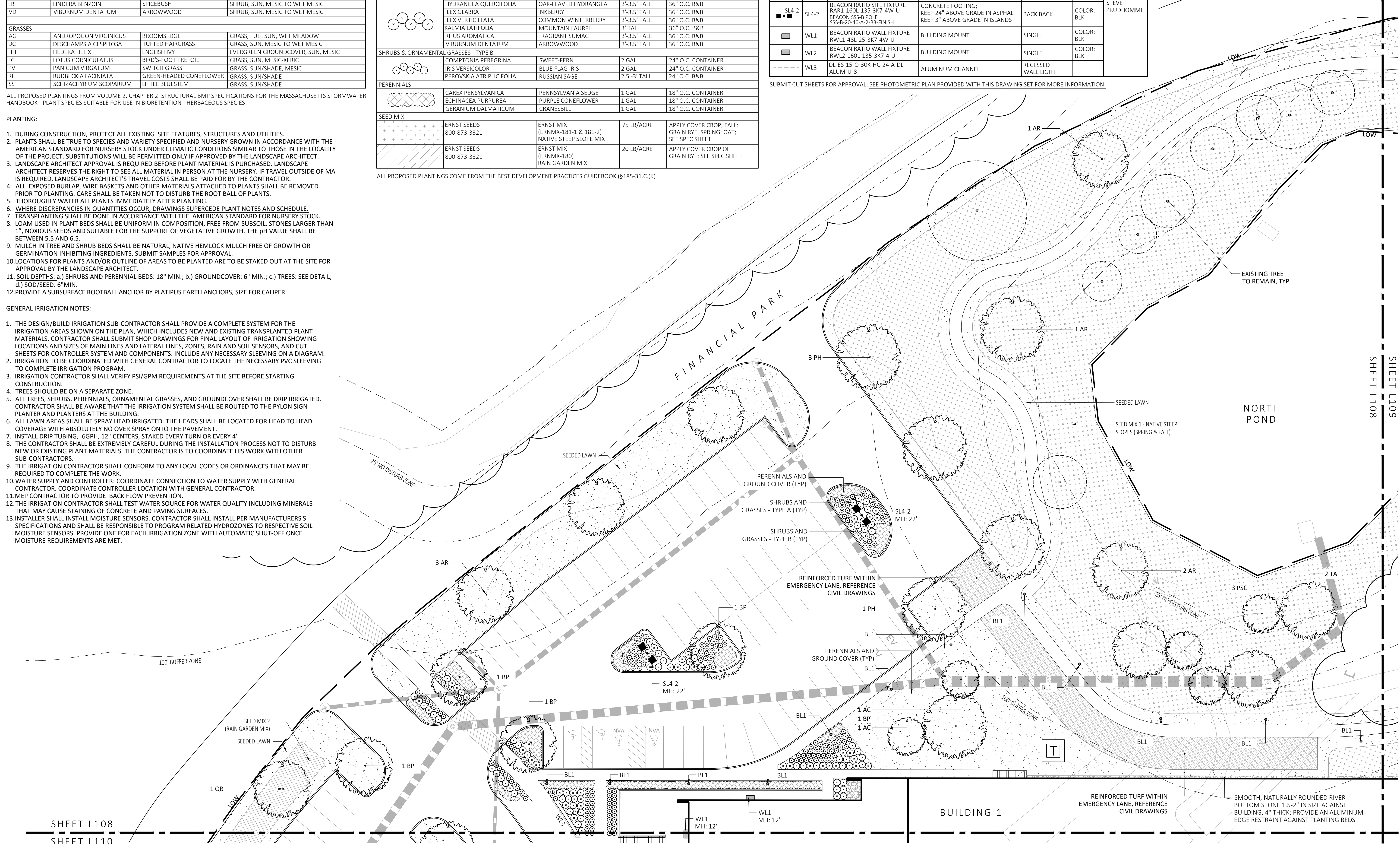
ALL PROPOSED PLANTINGS FROM VOLUME 2, CHAPTER 2: STRUCTURAL BMP SPECIFICATIONS FOR THE MASSACHUSETTS STORMWATER HANDBOOK - PLANT SPECIES SUITABLE FOR USE IN BIORETENTION - HERBACEOUS SPECIES

- PLANTING:**
- DURING CONSTRUCTION, PROTECT ALL EXISTING SITE FEATURES, STRUCTURES AND UTILITIES.
 - PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. SUBSTITUTIONS WILL BE PERMITTED ONLY IF APPROVED BY THE LANDSCAPE ARCHITECT.
 - LANDSCAPE ARCHITECT APPROVAL IS REQUIRED BEFORE PLANT MATERIAL IS PURCHASED. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO SEE ALL MATERIAL IN PERSON AT THE NURSERY. IF TRAVEL OUTSIDE OF MA IS REQUIRED, LANDSCAPE ARCHITECT'S TRAVEL COSTS SHALL BE PAID FOR BY THE CONTRACTOR.
 - ALL EXPOSED BURLAP, WIRE BASKETS AND OTHER MATERIALS ATTACHED TO PLANTS SHALL BE REMOVED PRIOR TO PLANTING. CARE SHALL BE TAKEN NOT TO DISTURB THE ROOT BALL OF PLANTS.
 - THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING.
 - WHERE DISCREPANCIES IN QUANTITIES OCCUR, DRAWINGS SUPERCEDE PLANT NOTES AND SCHEDULE.
 - TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK.
 - LOAM USED IN PLANT BEDS SHALL BE UNIFORM IN COMPOSITION, FREE FROM SUBSOIL, STONES LARGER THAN 1", NOXIOUS SEEDS AND SUITABLE FOR THE SUPPORT OF VEGETATIVE GROWTH. THE pH VALUE SHALL BE BETWEEN 5.5 AND 6.5.
 - MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL.
 - LOCATIONS FOR PLANTS AND/OR OUTLINE OF AREAS TO BE PLANTED ARE TO BE STAKED OUT AT THE SITE FOR APPROVAL BY THE LANDSCAPE ARCHITECT.
 - SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUND COVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOD/SEED: 6" MIN.
 - PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER

- GENERAL IRRIGATION NOTES:**
- THE DESIGN/BUILD IRRIGATION SUB-CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM FOR THE IRRIGATION AREAS SHOWN ON THE PLAN, WHICH INCLUDES NEW AND EXISTING TRANSPLANTED PLANT MATERIALS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR FINAL LAYOUT OF IRRIGATION SHOWING LOCATIONS AND SIZES OF MAIN LINES AND LATERAL LINES, ZONES, RAIN AND SOIL SENSORS, AND CUT SHEETS FOR CONTROLLER SYSTEM AND COMPONENTS. INCLUDE ANY NECESSARY SLEEVING ON A DIAGRAM.
 - IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO LOCATE THE NECESSARY PVC SLEEVING TO COMPLETE IRRIGATION PROGRAM.
 - IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE STARTING CONSTRUCTION.
 - TREES SHOULD BE ON A SEPARATE ZONE.
 - ALL TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUND COVER SHALL BE DRIP IRRIGATED. CONTRACTOR SHALL BE AWARE THAT THE IRRIGATION SYSTEM SHALL BE ROUTED TO THE PYLON SIGN PLANTER AND PLANTERS AT THE BUILDING.
 - ALL LAWN AREAS SHALL BE SPRAY HEAD IRRIGATED. THE HEADS SHALL BE LOCATED FOR HEAD TO HEAD COVERAGE WITH ABSOLUTELY NO OVER SPRAY ONTO THE PAVEMENT.
 - INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4'
 - THE CONTRACTOR SHALL BE EXTREMELY CAREFUL DURING THE INSTALLATION PROCESS NOT TO DISTURB NEW OR EXISTING PLANT MATERIALS. THE CONTRACTOR IS TO COORDINATE HIS WORK WITH OTHER SUB-CONTRACTORS.
 - THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK.
 - WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR.
 - MFP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION.
 - THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING SURFACES.
 - INSTALLER SHALL INSTALL MOISTURE SENSORS. CONTRACTOR SHALL INSTALL PER MANUFACTURER'S SPECIFICATIONS AND SHALL BE RESPONSIBLE TO PROGRAM RELATED HYDROZONES TO RESPECTIVE SOIL MOISTURE SENSORS. PROVIDE ONE FOR EACH IRRIGATION ZONE WITH AUTOMATIC SHUT-OFF ONCE MOISTURE REQUIREMENTS ARE MET.

ALL PROPOSED PLANTINGS COME FROM THE BEST DEVELOPMENT PRACTICES GUIDEBOOK (\$185-31-C.(K))

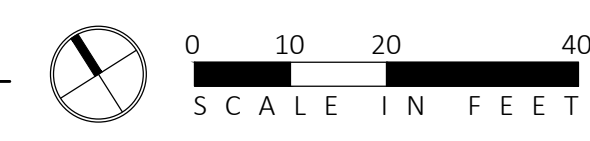
SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.



SHEET L108
SHEET L110

SHEET L108
SHEET L109

1 PLANTING & LIGHTING PLAN
SCALE: 1" = 20'-0"



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MICHAEL D'ANGELO
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FRANKLIN, MA

STAMP
MICHAEL D'ANGELO
LANDSCAPE ARCHITECT
NO. 4098

REV. NO.	DATE	DESCRIPTION
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2	7/17/23	RESPONSE TO COMMENTS
3	8/10/23	RESPONSE TO COMMENTS
4	8/23/23	RESPONSE TO COMMENTS

PLANTING & LIGHTING PLAN

DRAWN:
NC
CHECKED:
AS NOTED
SCALE:
AS NOTED
DATE:
5/11/2023

L108

SHEET 9 OF 24
plot date: 8/25/2023

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LIGHT SCHEDULE					
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS REP
○	BL1	ARLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY
■	SL3	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON 555-B POLE 555-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK
■	SL4	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON 555-B POLE 555-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK
■	SL4-2	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON 555-B POLE 555-B-20-40-A-2-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	BACK BACK	COLOR: BLK
■	WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U	BUILDING MOUNT	SINGLE	COLOR: BLK
■	WL2	BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U	BUILDING MOUNT	SINGLE	COLOR: BLK
---	WL3	DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8	ALUMINUM CHANNEL	RECESSED WALL LIGHT	

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

PLANT SCHEDULE					
SYMBOL	QTY.	LATIN NAME	COMMON NAME	SIZE	NOTES
TREES					
AR	24	ACER RUBRUM	RED MAPLE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
AC	5	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	8-10' HT	B&B, MULTI-STEM
BP	10	BETULA POPULIFOLIA	GRAY BIRCH	3"-3.5" CAL.	B&B, MULTI-STEM
PS	10	PINUS STROBUS	EASTERN WHITE PINE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
PSC	17	PRUNUS SEROTINA	BLACK CHERRY	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
PH	16	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
TA	16	TILIA AMERICANA	BASSWOOD	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
SHRUBS & ORNAMENTAL GRASSES - TYPE A					
		CLETHRA ALNIFOLIA	PEPPERBUSH	5 GAL	36" O.C. B&B
		HYDRANGEA QUERCIFOLIA	OAK-LEAVED HYDRANGEA	3"-3.5" TALL	36" O.C. B&B
		ILEX GLABRA	INKBERRY	3"-3.5" TALL	36" O.C. B&B
		ILEX VERTICILLATA	COMMON WINTERBERRY	3"-3.5" TALL	36" O.C. B&B
		KALMIA LATIFOLIA	MOUNTAIN LAUREL	3" TALL	36" O.C. B&B
		RHUS AROMATICA	FRAGRANT SUMAC	3"-3.5" TALL	36" O.C. B&B
		VIBURNUM DENTATUM	ARROWWOOD	3"-3.5" TALL	36" O.C. B&B
SHRUBS & ORNAMENTAL GRASSES - TYPE B					
		COMPTONIA PEREGRINA	SWEET-FERN	2 GAL	24" O.C. CONTAINER
		IRIS VERSICOLOR	BLUE FLAG IRIS	2 GAL	24" O.C. CONTAINER
		PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	2.5"-3" TALL	24" O.C. B&B
PERENNIALS					
		CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	1 GAL	18" O.C. CONTAINER
		ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL	18" O.C. CONTAINER
		GERANIUM DALMATIUM	CRANESBILL	1 GAL	18" O.C. CONTAINER
SEED MIX					
		ERNST SEEDS 800-873-3321	ERNST MIX (ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX	75 LB/ACRE	APPLY COVER CROP: FALL; GRAIN RYE, SPRING; OAT; SEE SPEC SHEET
		ERNST SEEDS 800-873-3321	ERNST MIX (ERNMX-180) RAIN GARDEN MIX	20 LB/ACRE	APPLY COVER CROP OF GRAIN RYE; SEE SPEC SHEET

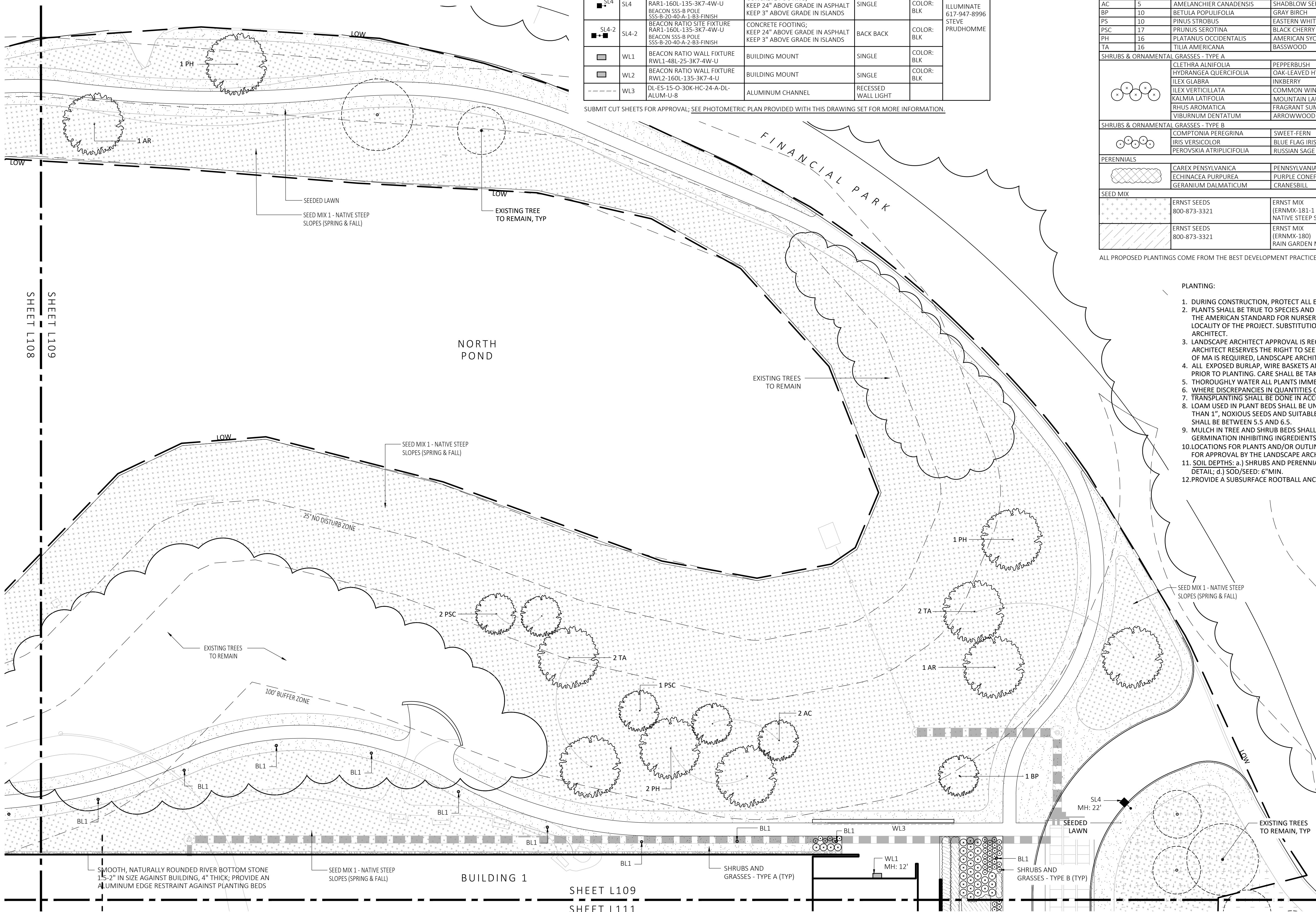
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PLANTING:

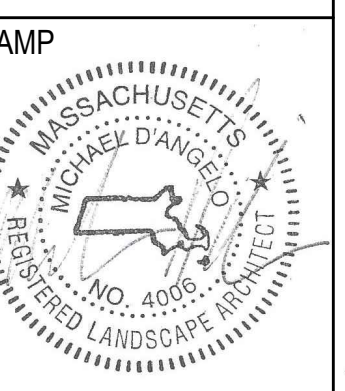
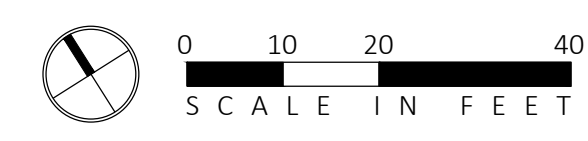
- DURING CONSTRUCTION, PROTECT ALL EXISTING SITE FEATURES, STRUCTURES AND UTILITIES.
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- ALL EXPOSED BURLAP, WIRE BASKETS AND OTHER MATERIALS ATTACHED TO PLANTS SHALL BE REMOVED PRIOR TO PLANTING. CARE SHALL BE TAKEN NOT TO DISTURB THE ROOT BALL OF PLANTS.
- THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING.
- WHERE DISCREPANCIES IN QUANTITIES OCCUR, DRAWINGS SUPERCEDE PLANT NOTES AND SCHEDULE.
- TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK.
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- MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL.
- LOCATIONS FOR PLANTS AND/OR OUTLINE OF AREAS TO BE PLANTED ARE TO BE STAKED OUT AT THE SITE FOR APPROVAL BY THE LANDSCAPE ARCHITECT.
- SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUND COVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOD/SEED: 6" MIN.
- PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATYPUS EARTH ANCHORS, SIZE FOR CALIPER

GENERAL IRRIGATION NOTES:

- THE DESIGN/BUILD IRRIGATION SUB-CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM FOR THE IRRIGATION AREAS SHOWN ON THE PLAN, WHICH INCLUDES NEW AND EXISTING TRANSPLANTED PLANT MATERIALS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR FINAL LAYOUT OF IRRIGATION SHOWING LOCATIONS AND SIZES OF MAIN LINES AND LATERAL LINES, ZONES, RAIN AND SOIL SENSORS, AND CUT SHEETS FOR CONTROLLER SYSTEM AND COMPONENTS. INCLUDE ANY NECESSARY SLEEVING ON A DIAGRAM.
- IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO LOCATE THE NECESSARY PVC SLEEVING TO COMPLETE IRRIGATION PROGRAM.
- IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE STARTING CONSTRUCTION.
- TREES SHOULD BE ON A SEPARATE ZONE.
- ALL TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUND COVER SHALL BE DRIP IRRIGATED. CONTRACTOR SHALL BE AWARE THAT THE IRRIGATION SYSTEM SHALL BE ROUTED TO THE PYLON SIGN PLANTER AND PLANTERS AT THE BUILDING.
- ALL LAWN AREAS SHALL BE SPRAY HEAD IRRIGATED. THE HEADS SHALL BE LOCATED FOR HEAD TO HEAD COVERAGE WITH ABSOLUTELY NO OVER SPRAY ONTO THE PAVEMENT.
- INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4'
- THE CONTRACTOR SHALL BE EXTREMELY CAREFUL DURING THE INSTALLATION PROCESS NOT TO DISTURB NEW OR EXISTING PLANT MATERIALS. THE CONTRACTOR IS TO COORDINATE HIS WORK WITH OTHER SUB-CONTRACTORS.
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- WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR.
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- THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING SURFACES.
- INSTALLER SHALL INSTALL MOISTURE SENSORS. CONTRACTOR SHALL INSTALL PER MANUFACTURER'S SPECIFICATIONS AND SHALL BE RESPONSIBLE TO PROGRAM RELATED HYDROZONES TO RESPECTIVE SOIL MOISTURE SENSORS. PROVIDE ONE FOR EACH IRRIGATION ZONE WITH AUTOMATIC SHUT-OFF ONCE MOISTURE REQUIREMENTS ARE MET.



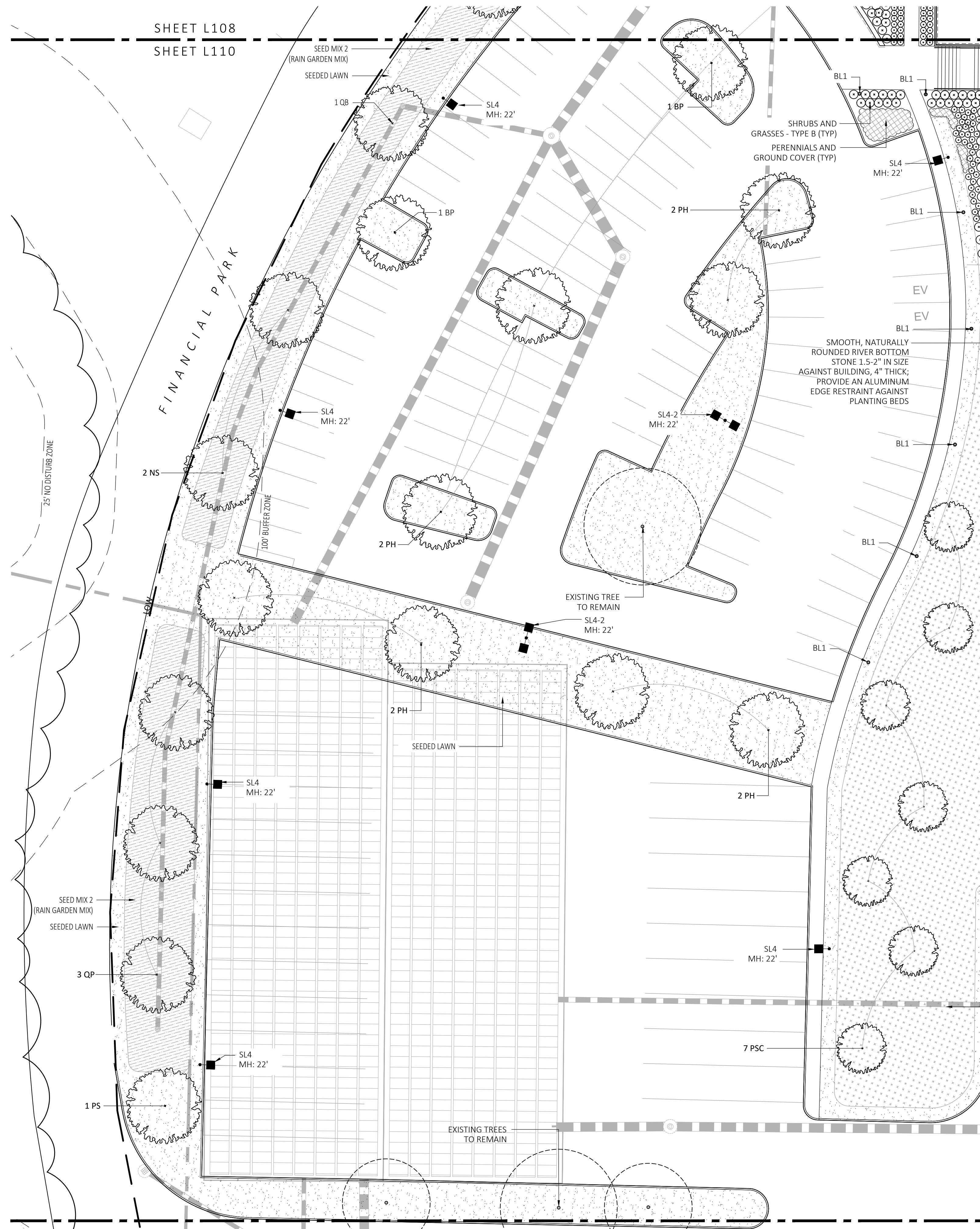
1 PLANTING & LIGHTING PLAN
SCALE: 1" = 20'-0"



REV. NO.	DATE	DESCRIPTION
	5/11/23	FOR PERMIT
1	7/17/23	RESPONSE TO COMMENTS
2	8/10/23	RESPONSE TO COMMENTS
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PLANTING & LIGHTING PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: L109
AS NOTED
DATE: 5/11/2023



PLANT SCHEDULE					
SYMBOL	QTY.	LATIN NAME	COMMON NAME	SIZE	NOTES
TREES					
AR	24	ACER RUBRUM	RED MAPLE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
AC	5	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	8-10" HT	B&B, MULTI-STEM
BP	10	BETULA POPULIFOLIA	GRAY BIRCH	3"-3.5" CAL.	B&B, MULTI-STEM
PS	10	PINUS STROBUS	EASTERN WHITE PINE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
PSC	17	PRUNUS SEROTINA	BLACK CHERRY	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
PH	16	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
TA	16	TILIA AMERICANA	BASSWOOD	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING

SHRUBS & ORNAMENTAL GRASSES - TYPE A					
		CLETHRA ALNIFOLIA	PEPPERBUSH	5 GAL	36" O.C. B&B
		HYDRANGEA QUERCIFOLIA	OAK-LEAVED HYDRANGEA	3"-3.5" TALL	36" O.C. B&B
		ILEX GLABRA	INKBERRY	3"-3.5" TALL	36" O.C. B&B
		ILEX VERTICILLATA	COMMON WINTERBERRY	3"-3.5" TALL	36" O.C. B&B
		KALMIA LATIFOLIA	MOUNTAIN LAUREL	3" TALL	36" O.C. B&B
		RHUS AROMATICA	FRAGRANT SUMAC	3"-3.5" TALL	36" O.C. B&B
		VIBURNUM DENTATUM	ARROWWOOD	3"-3.5" TALL	36" O.C. B&B

SHRUBS & ORNAMENTAL GRASSES - TYPE B					
		COMPTONIA PEREGRINA	SWEET-FERN	2 GAL	24" O.C. CONTAINER
		IRIS VERSICOLOR	BLUE FLAG IRIS	2 GAL	24" O.C. CONTAINER
		PEROVSKIA ATRIPPLICIFOLIA	RUSSIAN SAGE	2.5"-3" TALL	24" O.C. B&B

PERENNIALS					
		CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	1 GAL	18" O.C. CONTAINER
		ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL	18" O.C. CONTAINER
		GERANIUM DALMATIUM	CRANESBILL	1 GAL	18" O.C. CONTAINER

SEED MIX					
		ERNST SEEDS 800-873-3321	ERNST MIX (ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX	75 LB/ACRE	APPLY COVER CROP; FALL: GRAIN RYE, SPRING: OAT; SEE SPEC SHEET
		ERNST SEEDS 800-873-3321	ERNST MIX (ERNMX-180) RAIN GARDEN MIX	20 LB/ACRE	APPLY COVER CROP OF GRAIN RYE; SEE SPEC SHEET

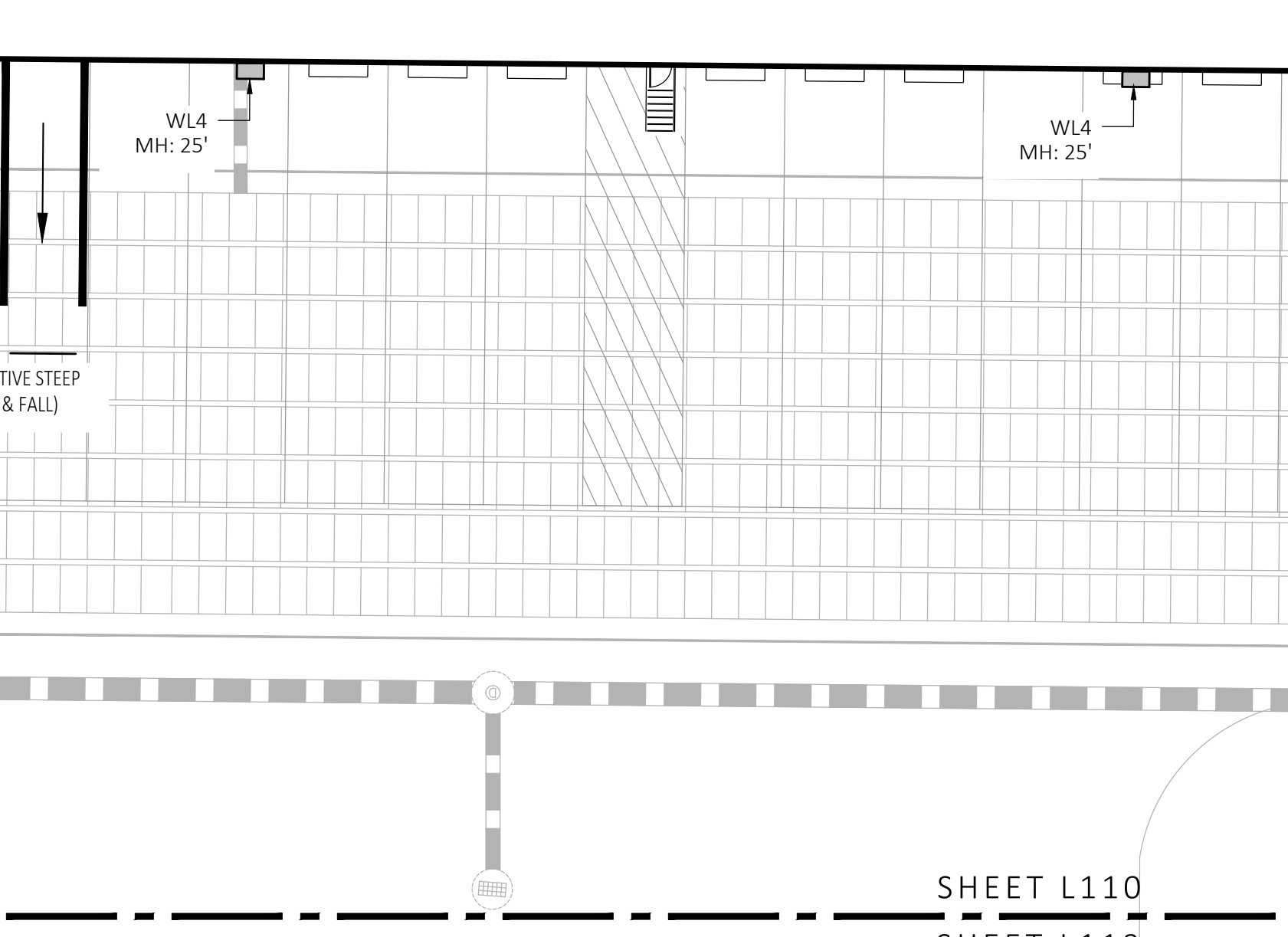
ALL PROPOSED PLANTINGS COME FROM THE BEST DEVELOPMENT PRACTICES GUIDEBOOK (\$185-31-C.K.)

BIORETENTION PLANT SCHEDULE					
SYMBOL	QTY.	LATIN NAME	COMMON NAME	NOTES	
TREES					
NS	2	NYSSA SYLVATICA	BLACK GUM	TREE, SUN, MESIC-HYDRIC	
QB	2	QUERCUS BICOLOR	SWAMP WHITE OAK	TREE, SUN/PARTIAL SUN, MESIC TO WET MESIC	
QP	3	QUERCUS PALUSTRIS	PIN OAK	TREE, SUN, MESIC-HYDRIC	
SHRUBS					
CA		CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	SHRUB, SUN/PARTIAL SUN, MESIC TO WET MESIC	
CS		CORNUS SERICEA	RED OSIER DOGWOOD	SHRUB, SUN/SHADE, MESIC-HYDRIC	
IG		ILEX GLABRA	INKBERRY	SHRUB, SUN/PARTIAL SUN, MESIC TO WET MESIC	
IV		ILEX VERTICILLATA	WINTERBERRY	SHRUB, SUN/PARTIAL SUN, MESIC TO WET MESIC	
LB		LINDERA BENZOIN	SPICEBUSH	SHRUB, SUN, MESIC TO WET MESIC	
VD		VIBURNUM DENTATUM	ARROWWOOD	SHRUB, SUN, MESIC TO WET MESIC	
GRASSES					
AG		ANDROPOGON VIRGINICUS	BROOMSEDGE	GRASS, FULL SUN, WET MEADOW	
DC		DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	GRASS, SUN, MESIC TO WET MESIC	
HC		HEDERA HELIX	ENGLISH IVY	EVERGREEN GROUND COVER, SUN, MESIC	
LL		LOTUS CORNICULATUS	BIRD'S-FOOT TRIFOLIUM	GRASS, SUN, MESIC-XERIC	
PV		PANICUM VIRGATUM	SWITCH GRASS	GRASS, SUN/SHADE, MESIC	
RL		RUDBECKIA LACINIATA	GREEN-HEADED CONEFLOWER	GRASS, SUN/SHADE	
SS		SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	GRASS, SUN/SHADE	

ALL PROPOSED PLANTINGS FROM VOLUME 2, CHAPTER 2: STRUCTURAL BMP SPECIFICATIONS FOR THE MASSACHUSETTS STORMWATER HANDBOOK - PLANT SPECIES SUITABLE FOR USE IN BIORETENTION - HERBACEOUS SPECIES

LIGHT SCHEDULE						
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
BL1		ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
SL3		BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	
SL4		BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	ILLUMINATE 617-947-8996 STEVE PRUDHOMME
SL4-2		BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40A-2-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	BACK BACK	COLOR: BLK	
WL1		BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
WL2		BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
WL3		DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8	ALUMINUM CHANNEL	RECESSED WALL LIGHT	COLOR: BLK	

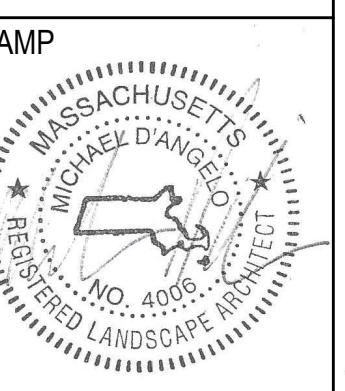
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 - ALL EXPOSED BURLAP, WIRE BASKETS AND OTHER MATERIALS ATTACHED TO PLANTS SHALL BE REMOVED PRIOR TO PLANTING. CARE SHALL BE TAKEN NOT TO DISTURB THE ROOT BALL OF PLANTS.
 - THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING.
 - WHERE DISCREPANCIES IN QUANTITIES OCCUR, DRAWINGS SUPERCEDE PLANT NOTES AND SCHEDULE.
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2	8/10/23	RESPONSE TO COMMENTS
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PLANTING & LIGHTING PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: L110
AS NOTED
DATE: 5/11/2023

1 PLANTING & LIGHTING PLAN
SCALE: 1" = 20'-0"



SHEET L110
SHEET L112

SHEET L111
SHEET L110

FOR PERMIT ONLY
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		VIBURNUM DENTATUM	ARROWWOOD	3"-3.5" TALL	36" O.C. B&B
SHRUBS & ORNAMENTAL GRASSES - TYPE B					
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		IRIS VERSICOLOR	BLUE FLAG IRIS	2 GAL	24" O.C. CONTAINER
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SEED MIX					
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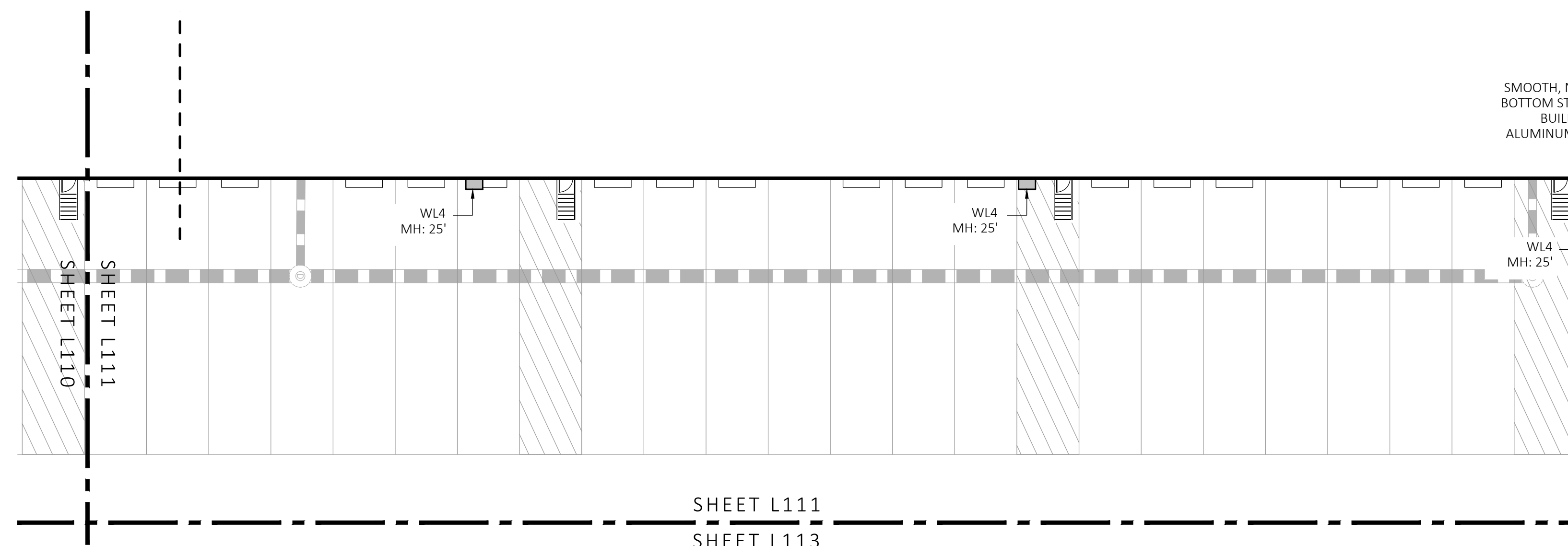
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LIGHT SCHEDULE						
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
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---	WL3	DL-ES-15-0-30K-HC-24-A-DL- ALUM-U-8	ALUMINUM CHANNEL	RECESSED WALL LIGHT	COLOR: BLK	

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

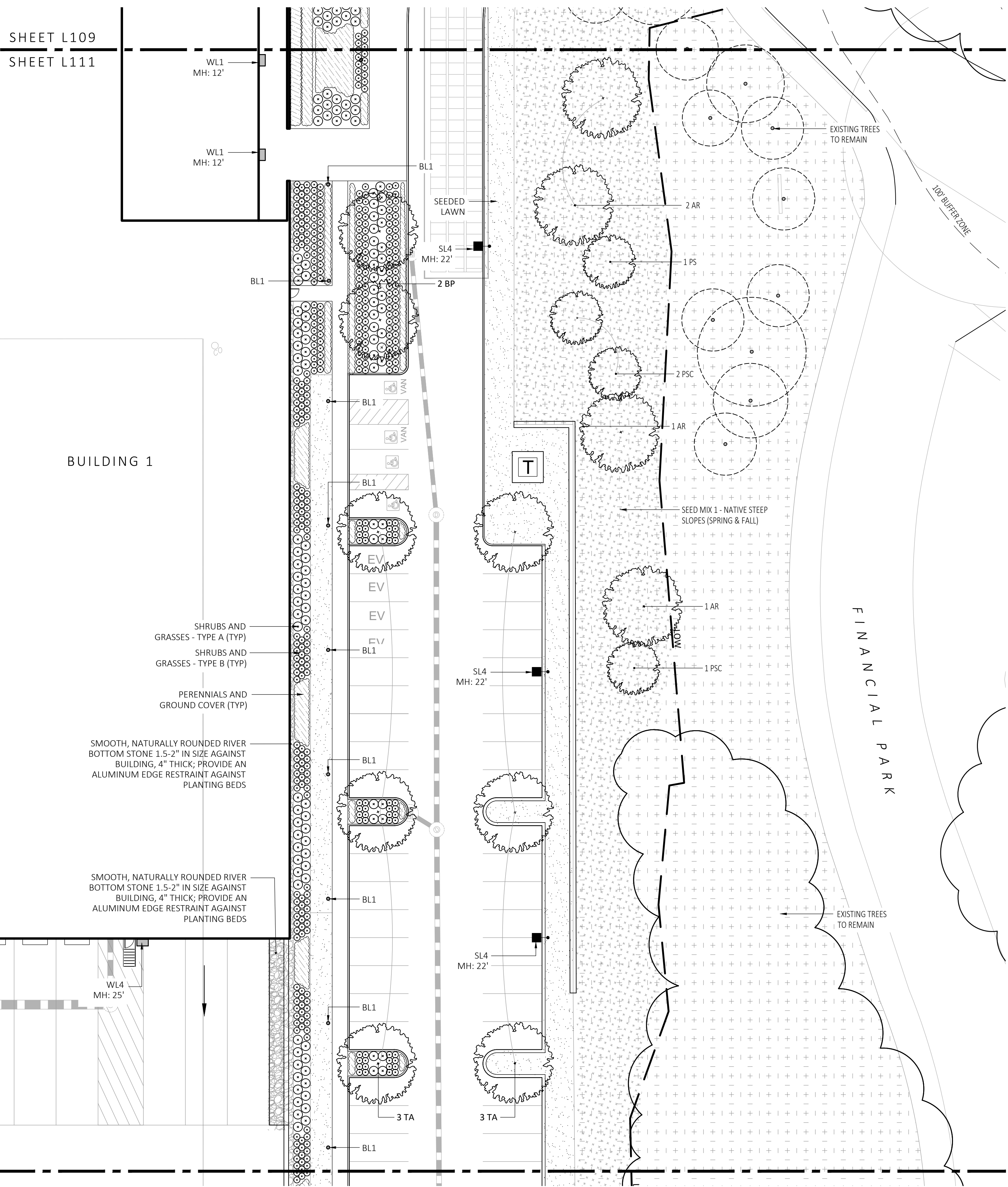
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4. ALL EXPOSED BURLAP, WIRE BASKETS AND OTHER MATERIALS ATTACHED TO PLANTS SHALL BE REMOVED PRIOR TO PLANTING. CARE SHALL BE TAKEN NOT TO DISTURB THE ROOT BALL OF PLANTS.
5. THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING.
6. WHERE DISCREPANCIES IN QUANTITIES OCCUR, DRAWINGS SUPERCEDE PLANT NOTES AND SCHEDULE.
7. TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK.
8. LOAM USED IN PLANT BEDS SHALL BE UNIFORM IN COMPOSITION, FREE FROM SUBSOIL, STONES LARGER THAN 1", NOXIOUS SEEDS AND SUITABLE FOR THE SUPPORT OF VEGETATIVE GROWTH. THE pH VALUE SHALL BE BETWEEN 5.5 AND 6.5.
9. MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL.
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12. PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER



1 PLANTING & LIGHTING PLAN
SCALE: 1" = 20'-0"



MDLA
MICHAEL D'ANGELO landscape architecture

MICHAEL D'ANGELO
LANDSCAPE ARCHITECTURE LLC

840 SUMMER STREET
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BOSTON, MA 02127
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BERKELEY PARTNERS
1 WASHINGTON MALL, SUITE 701
BOSTON, MA

PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA

STAMP
MICHAEL D'ANGELO
REGISTERED LANDSCAPE ARCHITECT
NO. 4098

REV. NO.	DATE	DESCRIPTION
1	5/11/23	FOR PERMIT
2	7/17/23	RESPONSE TO COMMENTS
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PLANTING & LIGHTING PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: L111
AS NOTED
DATE: 5/11/2023

SHEET 12 OF 24

plot date: 8/25/2023

PLANTING:

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- INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4'
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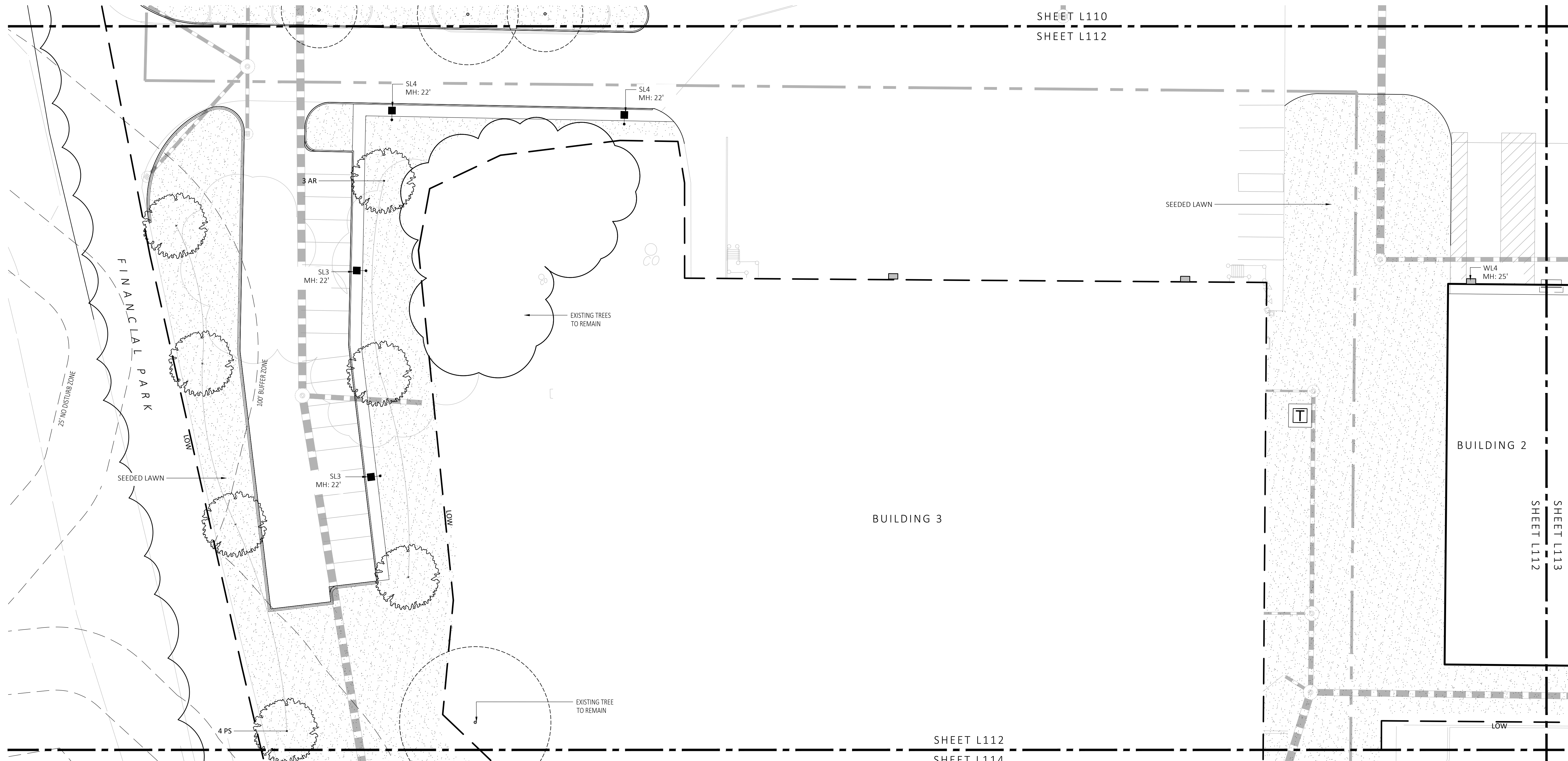
SYMBOL	QTY.	LATIN NAME	COMMON NAME	SIZE	NOTES
TREES					
AR	24	ACER RUBRUM	RED MAPLE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
AC	5	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	8-10' HT	B&B, MULTI-STEM
BP	10	BETULA POPULIFOLIA	GRAY BIRCH	3"-3.5" CAL.	B&B, MULTI-STEM
PS	10	PINUS STROBUS	EASTERN WHITE PINE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
PSC	17	PRUNUS SEROTINA	BLACK CHERRY	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
PH	16	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
TA	16	TILIA AMERICANA	BASSWOOD	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
SHRUBS & ORNAMENTAL GRASSES - TYPE A					
		CLETHRA ALNIFOLIA	PEPPERBUSH	5 GAL	36" O.C. B&B
		HYDRANGEA QUERCIFOLIA	OAK-LEAVED HYDRANGEA	3'-3.5" TALL	36" O.C. B&B
		ILEX GLABRA	INKBERRY	3'-3.5" TALL	36" O.C. B&B
		ILEX VERTICILLATA	COMMON WINTERBERRY	3'-3.5" TALL	36" O.C. B&B
		KALMIA LATIFOLIA	MOUNTAIN LAUREL	3' TALL	36" O.C. B&B
		RHUS AROMATICA	FRAGRANT SUMAC	3'-3.5" TALL	36" O.C. B&B
		VIBURNUM DENTATUM	ARROWWOOD	3'-3.5" TALL	36" O.C. B&B
SHRUBS & ORNAMENTAL GRASSES - TYPE B					
		COMPTONIA PEREGRINA	SWEET-FERN	2 GAL	24" O.C. CONTAINER
		IRIS VERSICOLOR	BLUE FLAG IRIS	2 GAL	24" O.C. CONTAINER
		PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	2.5'-3" TALL	24" O.C. B&B
PERENNIALS					
		CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	1 GAL	18" O.C. CONTAINER
		ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL	18" O.C. CONTAINER
		GERANIUM DALMATIICUM	CRANESBILL	1 GAL	18" O.C. CONTAINER
SEED MIX					
		ERNST SEEDS 800-873-3321	ERNST MIX (ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX	75 LB/ACRE	APPLY COVER CROP; FALL: GRAIN RYE, SPRING: OAT; SEE SPEC SHEET
		ERNST SEEDS 800-873-3321	ERNST MIX (ERNMX-180) RAIN GARDEN MIX	20 LB/ACRE	APPLY COVER CROP OF GRAIN RYE; SEE SPEC SHEET

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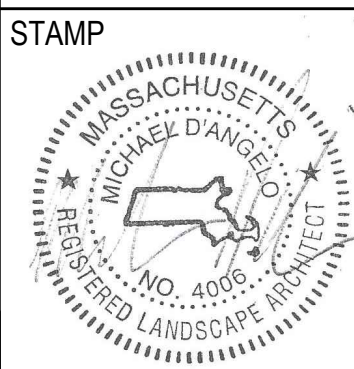
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SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
○	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
■ SL3	SL3	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-8 POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	
■ SL4	SL4	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-8 POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	ILLUMINATE 617-947-8996 STEVE PRUDHOMME
■ SL4-2	SL4-2	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-8 POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	BACK BACK	COLOR: BLK	
□ WL1	WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
□ WL2	WL2	BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
---	WL3	DL-ES-15-D-30K-HC-24-A-DL- ALUM-U-8	ALUMINUM CHANNEL	RECESSED WALL LIGHT		

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.



1 PLANTING & LIGHTING PLAN
SCALE: 1" = 20'-0"



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PLANTING & LIGHTING PLAN

DRAWN:
NC
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AS NOTED
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PLANT SCHEDULE					
SYMBOL	QTY.	LATIN NAME	COMMON NAME	SIZE	NOTES
TREES					
AR	24	ACER RUBRUM	RED MAPLE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
AC	5	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	8-10' HT	B&B, MULTI-STEM
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SHRUBS & ORNAMENTAL GRASSES - TYPE B					
		COMPTONIA PEREGRINA	SWEET-FERN	2 GAL	24" O.C. CONTAINER
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LIGHT SCHEDULE						
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
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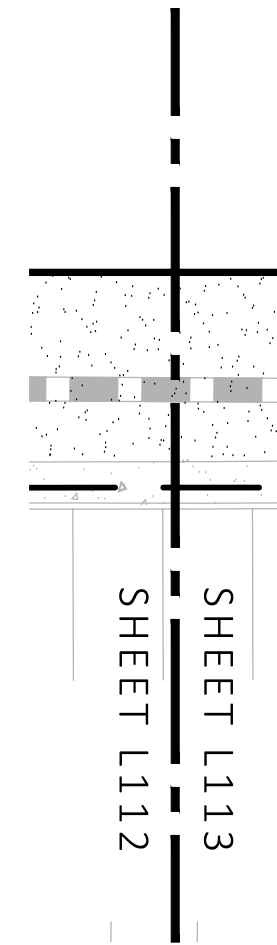
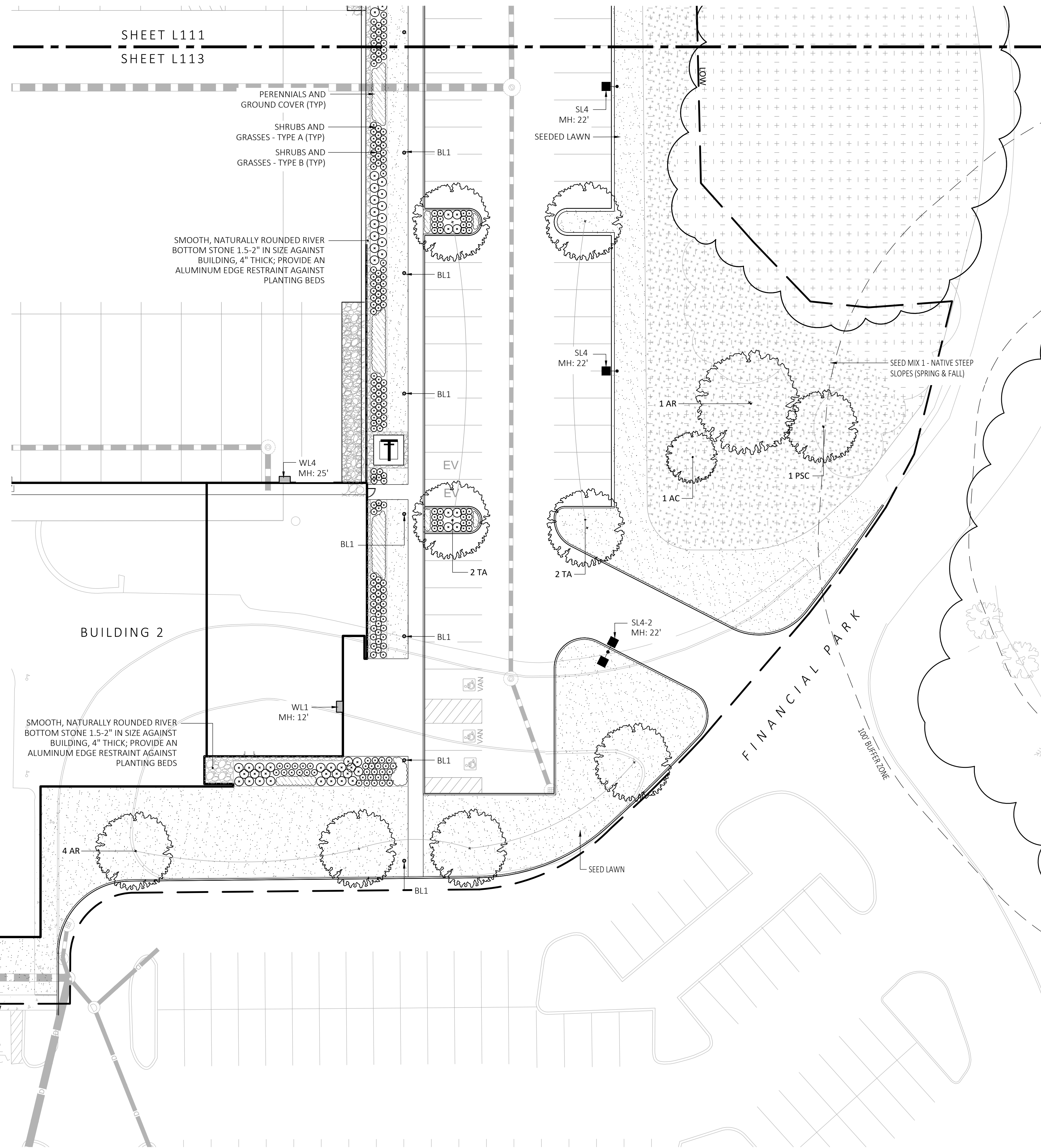
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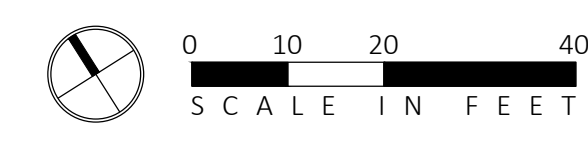
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L113

SHEET 14 OF 24
plot date: 8/25/2023

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- PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. SUBSTITUTIONS WILL BE PERMITTED ONLY IF APPROVED BY THE LANDSCAPE ARCHITECT.
- LANDSCAPE ARCHITECT APPROVAL IS REQUIRED BEFORE PLANT MATERIAL IS PURCHASED. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO SEE ALL MATERIAL IN PERSON AT THE NURSERY. IF TRAVEL OUTSIDE OF MA IS REQUIRED, LANDSCAPE ARCHITECT'S TRAVEL COSTS SHALL BE PAID FOR BY THE CONTRACTOR.
- ALL EXPOSED BURLAP, WIRE BASKETS AND OTHER MATERIALS ATTACHED TO PLANTS SHALL BE REMOVED PRIOR TO PLANTING. CARE SHALL BE TAKEN NOT TO DISTURB THE ROOT BALL OF PLANTS.
- THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING.
- WHERE DISCREPANCIES IN QUANTITIES OCCUR, DRAWINGS SUPERCEDE PLANT NOTES AND SCHEDULE.
- TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK.
- LOAM USED IN PLANT BEDS SHALL BE UNIFORM IN COMPOSITION, FREE FROM SUBSOIL, STONES LARGER THAN 1", NOXIOUS SEEDS AND SUITABLE FOR THE SUPPORT OF VEGETATIVE GROWTH. THE PH VALUE SHALL BE BETWEEN 5.5 AND 6.5.
- MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL.
- LOCATIONS FOR PLANTS AND/OR OUTLINE OF AREAS TO BE PLANTED ARE TO BE STAKED OUT AT THE SITE FOR APPROVAL BY THE LANDSCAPE ARCHITECT.
- SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUND COVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOD/SEED: 6" MIN.
- PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER

GENERAL IRRIGATION NOTES:

- THE DESIGN/BUILD IRRIGATION SUB-CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM FOR THE IRRIGATION AREAS SHOWN ON THE PLAN, WHICH INCLUDES NEW AND EXISTING TRANSPLANTED PLANT MATERIALS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR FINAL LAYOUT OF IRRIGATION SHOWING LOCATIONS AND SIZES OF MAIN LINES AND LATERAL LINES, ZONES, RAIN AND SOIL SENSORS, AND CUT SHEETS FOR CONTROLLER SYSTEM AND COMPONENTS. INCLUDE ANY NECESSARY SLEEVING ON A DIAGRAM.
- IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO LOCATE THE NECESSARY PVC SLEEVING TO COMPLETE IRRIGATION PROGRAM.
- IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE STARTING CONSTRUCTION.
- TREES SHOULD BE ON A SEPARATE ZONE.
- ALL LAWN AREAS SHALL BE SPRAY HEAD IRRIGATED. THE HEADS SHALL BE LOCATED FOR HEAD TO HEAD COVERAGE WITH ABSOLUTELY NO OVER SPRAY ONTO THE PAVEMENT.
- INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4' THE CONTRACTOR SHALL BE EXTREMELY CAREFUL DURING THE INSTALLATION PROCESS NOT TO DISTURB NEW OR EXISTING PLANT MATERIALS. THE CONTRACTOR IS TO COORDINATE HIS WORK WITH OTHER SUB-CONTRACTORS.
- THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK.
- WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR.
- MEP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION.
- THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING SURFACES.
- INSTALLER SHALL INSTALL MOISTURE SENSORS. CONTRACTOR SHALL INSTALL PER MANUFACTURERS'S SPECIFICATIONS AND SHALL BE RESPONSIBLE TO PROGRAM RELATED HYDROZONES TO RESPECTIVE SOIL MOISTURE SENSORS. PROVIDE ONE FOR EACH IRRIGATION ZONE WITH AUTOMATIC SHUT-OFF ONCE MOISTURE REQUIREMENTS ARE MET.

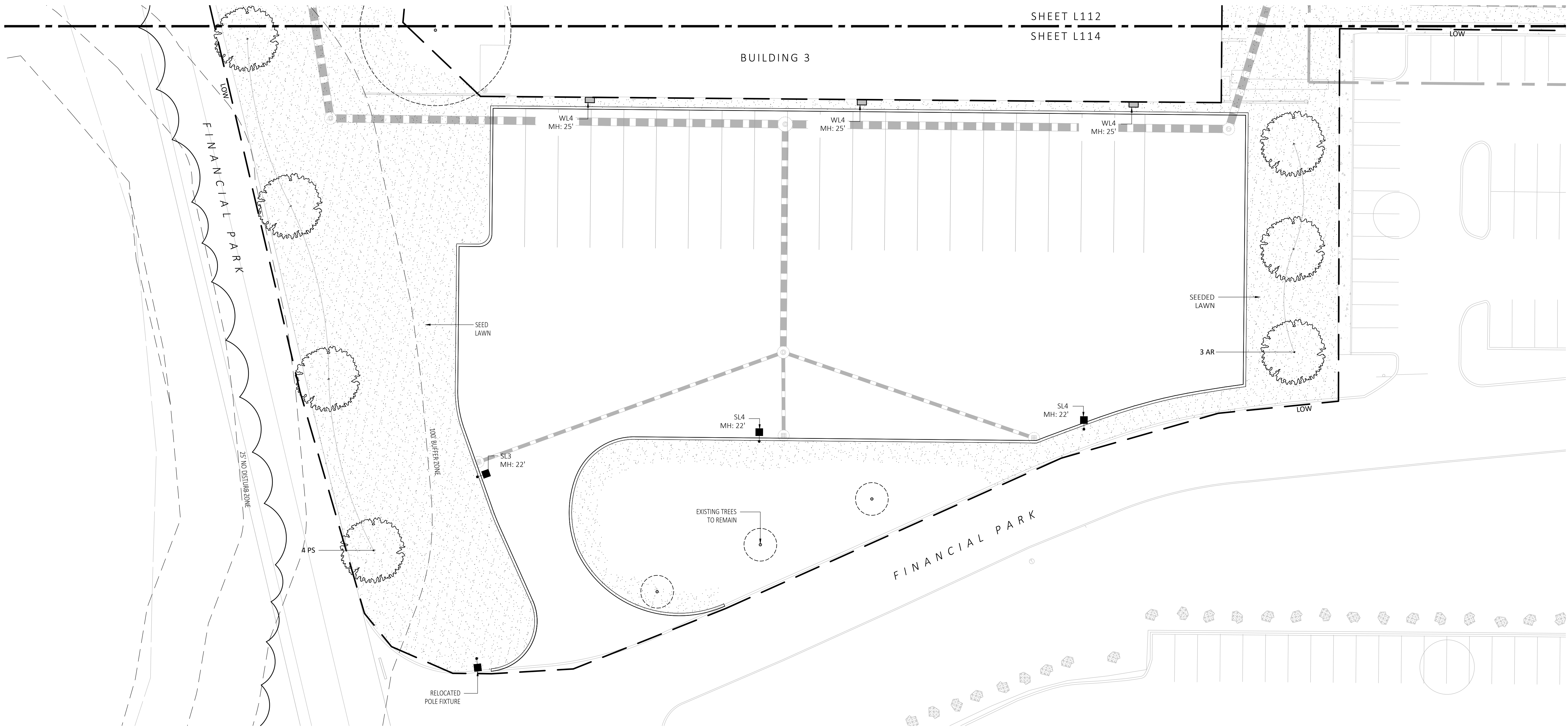
PLANT SCHEDULE					
SYMBOL	QTY.	LATIN NAME	COMMON NAME	SIZE	NOTES
TREES					
AR	24	ACER RUBRUM	RED MAPLE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
AC	5	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	8-10' HT	B&B, MULTI-STEM
BP	10	BETULA POPULIFOLIA	GRAY BIRCH	3"-3.5" CAL.	B&B, MULTI-STEM
PS	10	PINUS STROBUS	EASTERN WHITE PINE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
PSC	17	PRUNUS SEROTINA	BLACK CHERRY	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
PH	16	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
TA	16	TILIA AMERICANA	BASSWOOD	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
SHRUBS & ORNAMENTAL GRASSES - TYPE A					
		CLETHRA ALNIFOLIA	PEPPERBUSH	5 GAL	36" O.C. B&B
		HYDRANGEA QUERCIFOLIA	OAK-LEAVED HYDRANGEA	3"-3.5" TALL	36" O.C. B&B
		ILEX GLABRA	INKBERRY	3"-3.5" TALL	36" O.C. B&B
		ILEX VERTICILLATA	COMMON WINTERBERRY	3"-3.5" TALL	36" O.C. B&B
		KALMIA LATIFOLIA	MOUNTAIN LAUREL	3" TALL	36" O.C. B&B
		RHUS AROMATICA	FRAGRANT SUMAC	3"-3.5" TALL	36" O.C. B&B
		VIBURNUM DENTATUM	ARROWWOOD	3"-3.5" TALL	36" O.C. B&B
SHRUBS & ORNAMENTAL GRASSES - TYPE B					
		COMPTONIA PEREGRINA	SWEET-FERN	2 GAL	24" O.C. CONTAINER
		IRIS VERSICOLOR	BLUE FLAG IRIS	2 GAL	24" O.C. CONTAINER
		PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	2.5'-3' TALL	24" O.C. B&B
PERENNIALS					
		CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	1 GAL	18" O.C. CONTAINER
		ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL	18" O.C. CONTAINER
		GERANIUM DALMATIUM	CRANESBILL	1 GAL	18" O.C. CONTAINER
SEED MIX					
		ERNST SEEDS 800-873-3321	ERNST MIX (ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX	75 LB/ACRE	APPLY COVER CROP: FALL: GRAIN RYE, SPRING: OAT; SEE SPEC SHEET
		ERNST SEEDS 800-873-3321	ERNST MIX (ERNMX-180) RAIN GARDEN MIX	20 LB/ACRE	APPLY COVER CROP OF GRAIN RYE; SEE SPEC SHEET

ALL PROPOSED PLANTINGS COME FROM THE BEST DEVELOPMENT PRACTICES GUIDEBOOK (\$185-31.C.(K))

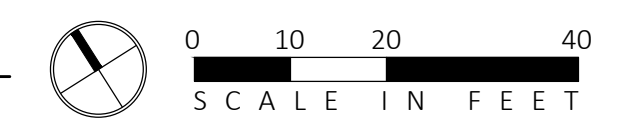
FOR PERMIT ONLY
NOT FOR CONSTRUCTION

LIGHT SCHEDULE						
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
○	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
■ SL3	SL3	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	
■ SL4	SL4	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	ILLUMINATE 617-947-8996 STEVE PRUDHOMME
■ SL4-2	SL4-2	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-2-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	BACK BACK	COLOR: BLK	
□	WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
□	WL2	BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
---	WL3	DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8	ALUMINUM CHANNEL	RECESSED WALL LIGHT		

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.



1 PLANTING & LIGHTING PLAN
SCALE: 1" = 20'-0"



MDLA
MICHAEL D'ANGELO landscape architecture

MICHAEL D'ANGELO
LANDSCAPE ARCHITECTURE LLC
840 SUMMER STREET
SUITE 203A
BOSTON, MA 02127
1.203.592.4788
www.m-d-a.com

CLIENT
BERKELEY PARTNERS
1 WASHINGTON MALL, SUITE 701
BOSTON, MA

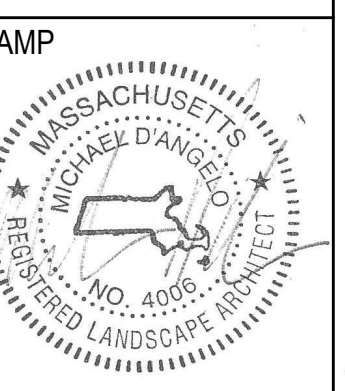
PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA



REV. NO.	DATE	DESCRIPTION
1	5/11/23	FOR PERMIT
2	7/17/23	RESPONSE TO COMMENTS
3	8/10/23	RESPONSE TO COMMENTS
4	8/23/23	RESPONSE TO COMMENTS

PLANTING & LIGHTING PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: L114
AS NOTED
DATE: 5/11/2023



REV. NO.	DATE	DESCRIPTION
	5/11/23	FOR PERMIT
1	7/17/23	RESPONSE TO COMMENTS
2	8/10/23	RESPONSE TO COMMENTS
3	8/23/23	RESPONSE TO COMMENTS

PLANTING SCHEDULE & DETAILS

DRAWN:	NC
CHECKED:	AS NOTED
SCALE:	L115
AS NOTED:	
DATE:	5/11/2023

Ernst Conservation Seeds
8884 Mercer Pike
Meadville, PA 16335
(800) 873-3321 Fax (814) 336-5191
www.ernstseed.com

Spring

Date: August 28, 2018

Native Steep Slope Mix w/Grain Oats - ERNMX-181-1

Botanical Name	Common Name	Price/lb
40.00 % <i>Avena sativa</i> , Variety Not Stated	Oats, Variety Not Stated	6.22
20.40 % <i>Sorghastrum nutans</i> , NY Ecotype	Indiangrass, NY Ecotype	12.90
8.10 % <i>Andropogon gerardii</i> , 'Niagara'	Big Bluestem, 'Niagara'	13.06
7.50 % <i>Elymus virginicus</i> , PA Ecotype	Virginia Wildrye, PA Ecotype	7.72
5.20 % <i>Elymus canadensis</i>	Canada Wildrye	12.87
4.50 % <i>Schizanthium scarpium</i> , Fort Indiantown Gap-PA Ecotype	Purpletop, Fort Indiantown Gap-PA Ecotype	12.00
3.70 % <i>Tridens flavus</i> , Fort Indiantown Gap-PA Ecotype	Tridens Flawless, Fort Indiantown Gap-PA Ecotype	18.78
3.00 % <i>Agrostis perennis</i> , Albany Pine Bush-NY Ecotype	Autumn Bergamoss, Albany Pine Bush-NY Ecotype	14.00
2.30 % <i>Panicum virgatum</i> , 'Shawnee'	Switchgrass, 'Shawnee'	7.51
1.10 % <i>Chamaecrista fasciculata</i> , PA Ecotype	Partridge Pea, PA Ecotype	10.00
1.00 % <i>Echinacea purpurea</i>	Purple Coneflower	36.00
0.80 % <i>Gallardia aridata</i>	Perennial Gallardia (Blanketflower)	32.00
0.80 % <i>Audubonia hirta</i>	Black-eyed Susan	20.00
0.70 % <i>Heliopsis helianthoides</i> , PA Ecotype	Cheery Sunflower, PA Ecotype	42.00
0.40 % <i>Aster novae-angliae</i> , PA Ecotype	New England Aster, PA Ecotype	360.00
0.20 % <i>Asclepias syriaca</i> , PA Ecotype	Common Milkweed, PA Ecotype	196.00
0.20 % <i>Liatris spicata</i>	Marsh (Dense) Blazing Star (Spiked Gayfeather)	210.00
0.10 % <i>Penstemon digitalis</i>	Tall White Beardtongue	160.00

100.00 % Mix Price/lb Bulk: \$10.45

Seeding Rate: 75 lb per acre
Erosion Control & Revegetation

Use this formula with grain oats as a cover crop in the spring and summer (until September 1st). Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

Price quotes guaranteed for 30 days.
All prices are FOB Meadville, PA.
Please check our web site at www.ernstseed.com
for current pricing when placing orders.

1 SEED MIX 1 - NATIVE STEEP SLOPES (SPRING)
SCALE: N.T.S.

Ernst Conservation Seeds
8884 Mercer Pike
Meadville, PA 16335
(800) 873-3321 Fax (814) 336-5191
www.ernstseed.com

Fall

Date: August 28, 2018

Native Steep Slope Mix w/Grain Rye - ERNMX-181-2

Botanical Name	Common Name	Price/lb
40.00 % <i>Sesale cereale</i> , Variety Not Stated	Grain Rye, Variety Not Stated	0.21
20.40 % <i>Sorghastrum nutans</i> , PA Ecotype	Indiangrass, PA Ecotype	10.60
8.10 % <i>Andropogon gerardii</i> , 'Niagara'	Big Bluestem, 'Niagara'	13.06
7.50 % <i>Elymus virginicus</i> , PA Ecotype	Virginia Wildrye, PA Ecotype	7.72
5.20 % <i>Elymus canadensis</i>	Canada Wildrye	12.87
4.50 % <i>Schizanthium scarpium</i> , 'Camper'	Little Bluestem, 'Camper'	12.59
3.70 % <i>Tridens flavus</i>	Purpletop	18.56
3.00 % <i>Agrostis perennis</i> , Albany Pine Bush-NY Ecotype	Autumn Bergamoss, Albany Pine Bush-NY Ecotype	14.00
2.30 % <i>Panicum virgatum</i> , 'Shawnee'	Switchgrass, 'Shawnee'	7.51
1.10 % <i>Chamaecrista fasciculata</i> , PA Ecotype	Partridge Pea, PA Ecotype	10.00
1.00 % <i>Echinacea purpurea</i>	Purple Coneflower	36.00
0.80 % <i>Gallardia aridata</i>	Perennial Gallardia (Blanketflower)	32.00
0.80 % <i>Audubonia hirta</i>	Black-eyed Susan	20.00
0.70 % <i>Heliopsis helianthoides</i> , PA Ecotype	Cheery Sunflower, PA Ecotype	42.00
0.40 % <i>Aster lateriflorus</i>	Calico Aster	300.00
0.30 % <i>Liatris spicata</i>	Marsh (Dense) Blazing Star (Spiked Gayfeather)	210.00
0.20 % <i>Asclepias syriaca</i> , PA Ecotype	Common Milkweed, PA Ecotype	196.00

100.00 % Mix Price/lb Bulk: \$9.88

Seeding Rate: 75 lb per acre
Erosion Control & Revegetation

Use this formula with grain rye as a cover crop (from August 1st-February 15th). Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

Price quotes guaranteed for 30 days.
All prices are FOB Meadville, PA.
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for current pricing when placing orders.

2 SEED MIX 1 - NATIVE STEEP SLOPES (FALL)
SCALE: N.T.S.

Ernst Conservation Seeds
8884 Mercer Pike
Meadville, PA 16335
(800) 873-3321 Fax (814) 336-5191
www.ernstseed.com

Date: August 28, 2018

Rain Garden Mix - ERNMX-180

Botanical Name	Common Name	Price/lb
31.50 % <i>Schizanthium scarpium</i> , Albany Pine Bush-NY Ecotype	Little Bluestem, Albany Pine Bush-NY Ecotype	12.02
20.00 % <i>Elymus virginicus</i> , PA Ecotype	Virginia Wildrye, PA Ecotype	7.72
10.00 % <i>Carex vulpinoidea</i> , PA Ecotype	Fox Sedge, PA Ecotype	24.00
10.00 % <i>Panicum virgatum</i> , Coastal Plain NC Ecotype	Redtop/Panicgrass, Coastal Plain NC Ecotype	48.00
5.00 % <i>Echinacea purpurea</i>	Purple Coneflower	36.00
3.00 % <i>Chamaecrista fasciculata</i>	Lanceleaf Coneopsis	24.00
3.00 % <i>Audubonia hirta</i>	Black-eyed Susan	20.00
2.00 % <i>Carex scoparia</i> , PA Ecotype	Blunt Broom Sedge, PA Ecotype	72.00
2.00 % <i>Chamaecrista fasciculata</i> , PA Ecotype	Partridge Pea, PA Ecotype	10.00
2.00 % <i>Eupatorium coelestinum</i> , PA Ecotype	Millflower, VA Ecotype	128.00
2.00 % <i>Heliopsis helianthoides</i> , PA Ecotype	Cheery Sunflower, PA Ecotype	42.00
2.00 % <i>Pennisetum digitatum</i> , PA Ecotype	Tall White Beardtongue, PA Ecotype	160.00
1.00 % <i>Asclepias incarnata</i> , PA Ecotype	Swamp Milkweed, PA Ecotype	160.00
1.00 % <i>Juncus effusus</i>	Soft Rush	40.00
1.00 % <i>Juncus tenuis</i> , PA Ecotype	Path Rush, PA Ecotype	60.00
1.00 % <i>Liatris spicata</i>	Marsh (Dense) Blazing Star (Spiked Gayfeather)	210.00
0.80 % <i>Aster novae-angliae</i> , PA Ecotype	New England Aster, PA Ecotype	360.00
0.70 % <i>Aster lateriflorus</i>	Calico Aster, NY Ecotype	300.00
0.50 % <i>Senna hebecarpa</i> , VA & WV Ecotype	Orange Coneflower, Northern VA Ecotype	24.00
0.40 % <i>Morone fasciata</i> , Fort Indiantown Gap-PA Ecotype	Wild Bergamoss, Fort Indiantown Gap-PA Ecotype	160.00
0.30 % <i>Psycotermum tenuifolium</i>	Narrowleaf Mountainmint	140.00
0.30 % <i>Solidago juncea</i> , PA Ecotype	Early Goldenrod, PA Ecotype	280.00

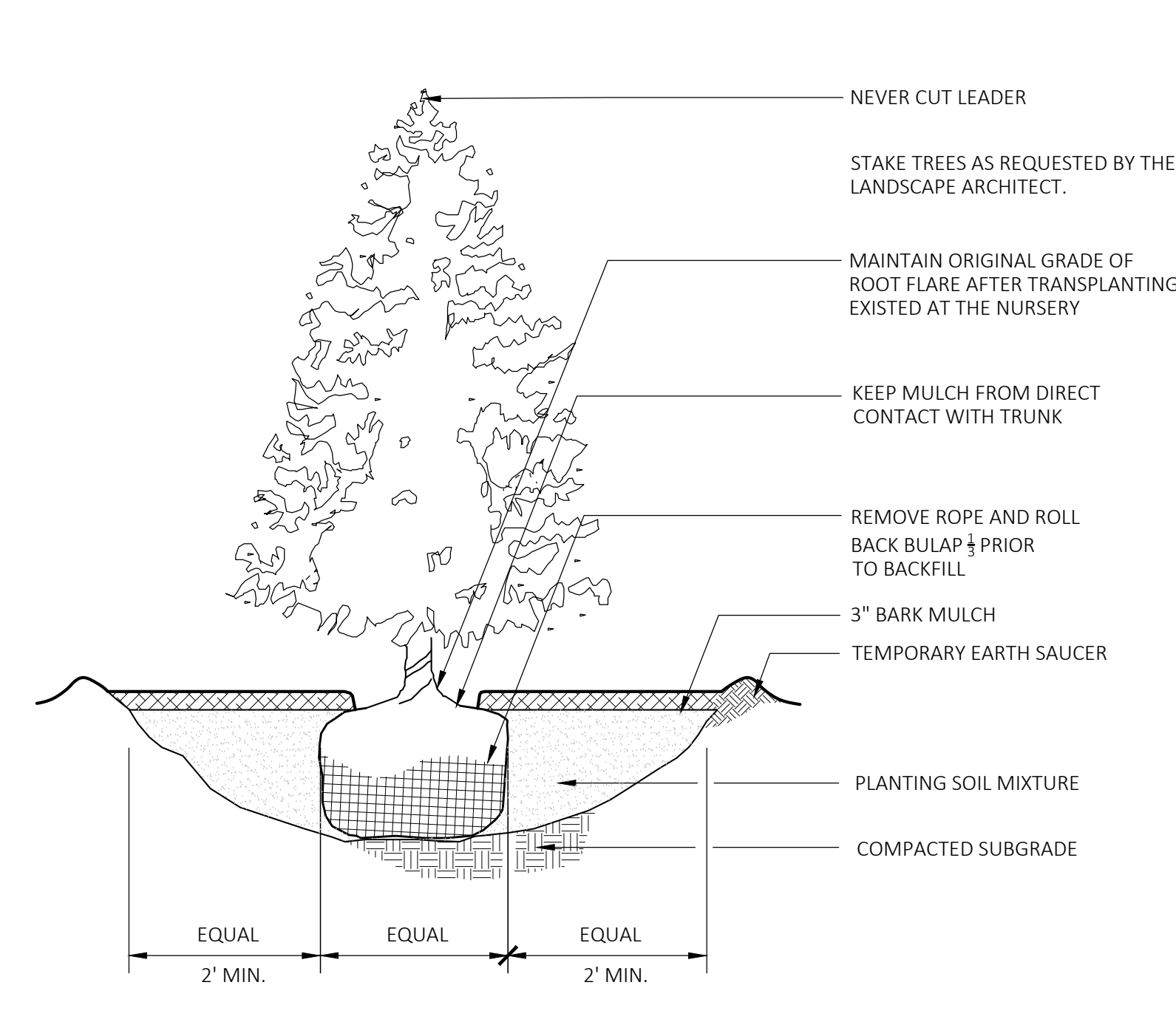
100.00 % Mix Price/lb Bulk: \$37.29

Seeding Rate: 20 lb per acre with a cover crop of grain rye at 30 lb per acre
Uplands & Meadows

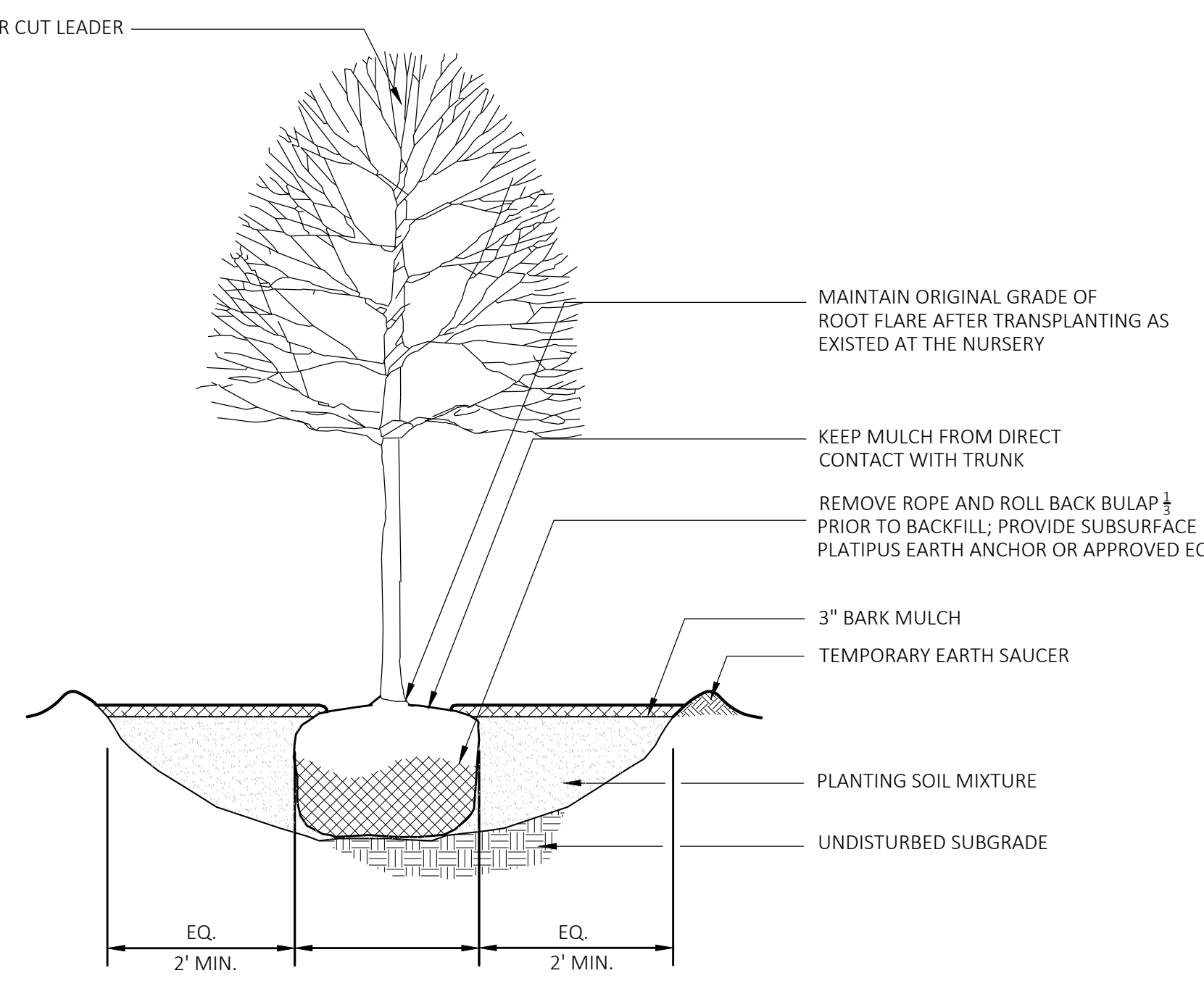
The native perennial forbs and grasses provide food and cover for rain garden biodiversity. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

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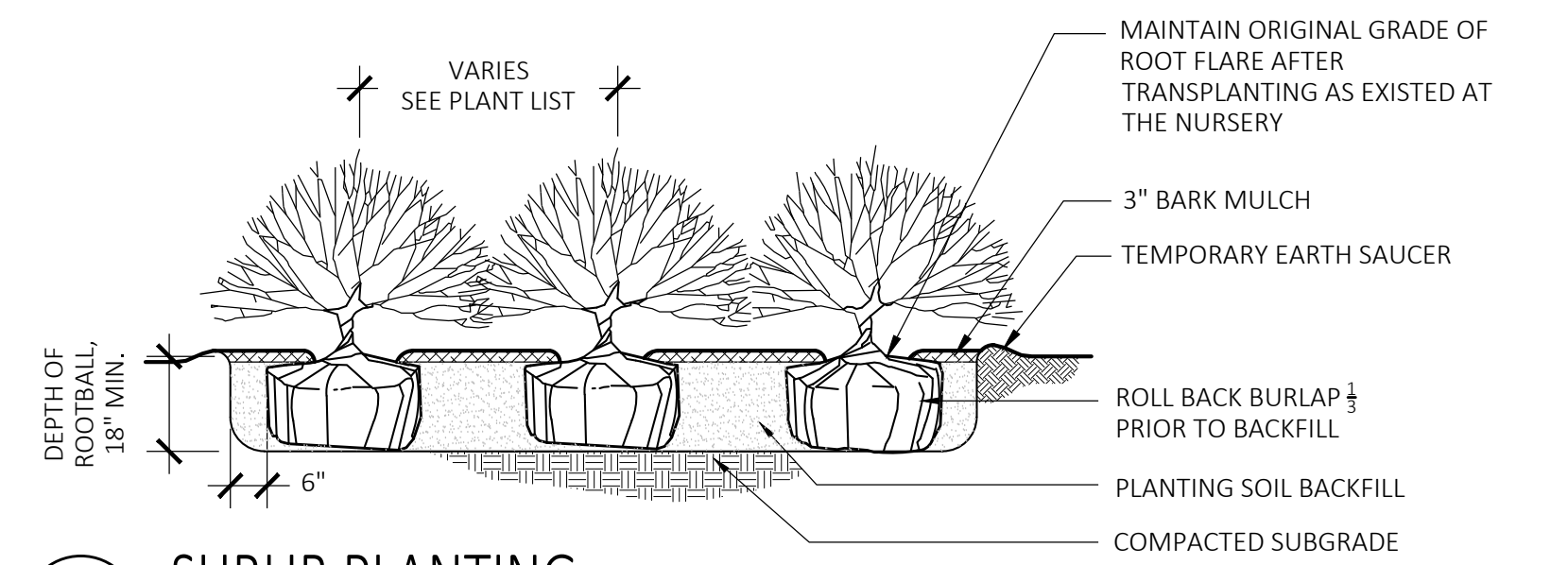
3 SEED MIX 2 - RAIN GARDEN MIX
SCALE: N.T.S.



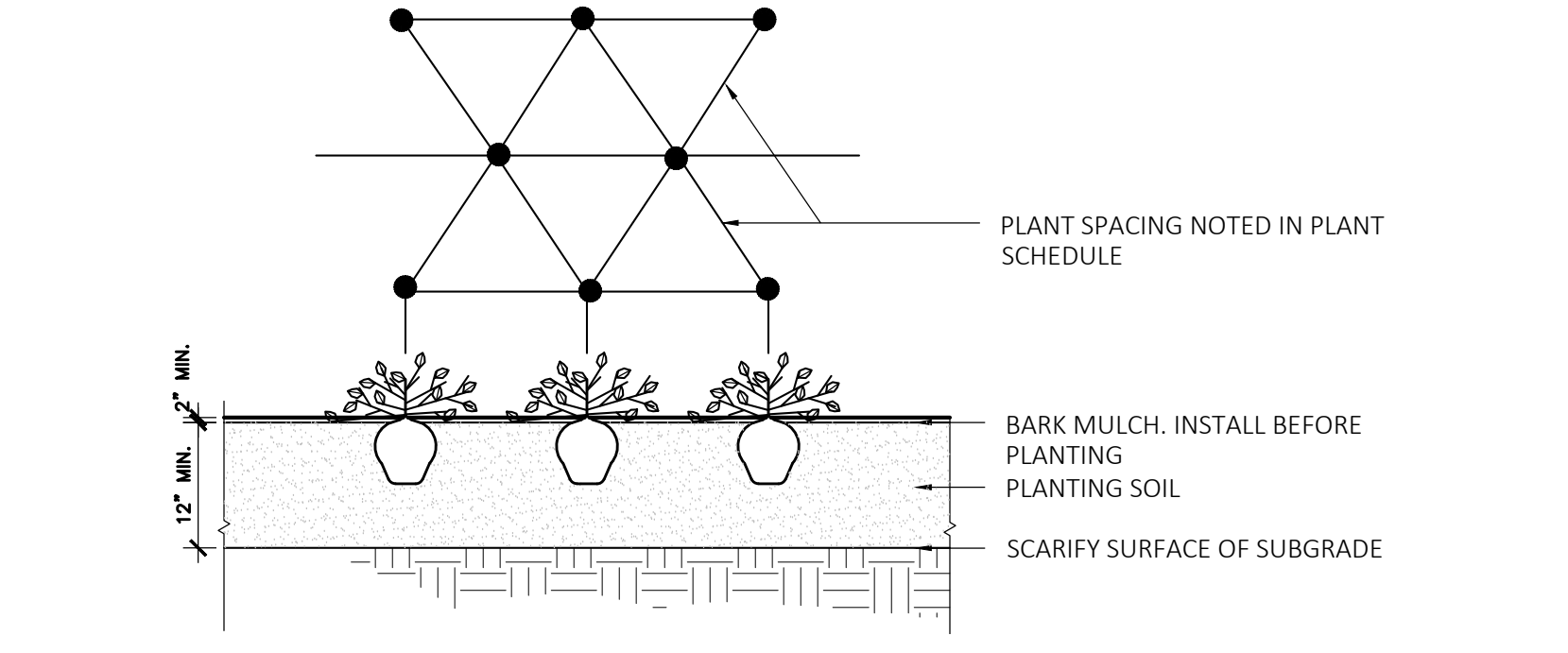
4 EVERGREEN TREE PLANTING
SCALE: N.T.S.



5 DECIDUOUS TREE PLANTING
SCALE: N.T.S.



6 SHRUB PLANTING
SCALE: N.T.S.



7 GROUNDCOVER PLANTING
SCALE: N.T.S.

Bollard lights		Generated on: 03-22-2023 7:54 pm	Arcluce
Project			
TYPE			
Catalog#			
NOTES			

KLOU180 large

Arcluce Code: **SL-KL0203US-12S** Installation [instructions](#) IES photometry [↓](#)
Code Ref: **087100D-830-12US**

TECHNICAL INFORMATION

Light source: LED, 3000K, CRB-80
Light efficiency: 73lm/W
Power luminaire: 39W, 1400lm
LED life time: > 60,000h - L80 - B20 (Ta 25°C)
High colour consistency: < 3 SDCM
Wiring: 120-277V 60Hz DIMM
Optics: radial
Color: Black - 12
Height: 24.0" ±
Size: A: 8" 7/16
B: 3" 3/8

Construction

- Die-cast aluminum body (EN 47100)
- Extruded aluminum pole
- Double layer polyester powder paint resistant to corrosion and self-spraying fog
- Silicone rubber gaskets
- ANSI 316 stainless steel external screws

Electrical & Optics

- Universal input voltage: 120-277V 50/60Hz
- 0-10V dimming available
- Wiring on removable galvanneal steel tray
- High-efficiency LEDs with standard 3000K, 4000K (2700K or other CCTs available on request)
- Reflector made of anodized aluminum with non-reflective specular finishing
- UV UVs stabilized, 850° glow wire test resistant, V2 self-extinguishing clear polycarbonate screen

Listings

- UL certified to U.S. and Canadian standards, suitable for wet locations (UL wet mark)
- Suitable for mounting within 1.2 m (4 ft) of ground
- Rated IP66 per EN60529
- Luminaire rated for 40°C minimum ambient temperature on selected model variants
- High quality LED sources characterized according to IES TM-30, with high color consistency <3SDCM and long useful life (50,000 hours at L80)

Installation

- Surface installation
- Die-cast aluminum base (EN 47100) for anchoring with rebar
- Supplied with steel base plate and shaped anchor bolts
- Available on request: encased steel pillar for reinforced anchoring
- Supplied with power cord (18AWG conductors)

IP66

IK09

CE

215 F

KEY DATA

Lumen Range	1300 - 18300
Wattage Range	25 - 340
Efficacy Range (lm/W)	18 - 155
Fixture Projected Life (Hours)	170-60K
Weights lbs. (kg)	13.5 - 24 (6.1 - 10.9)

Arcluce North America Inc. 333 Bush Street - San Francisco, CA 94104 - Ph: +1 (408) 856-6275 - export@arcluce.it [See accessories in the next page](#) [arcluce-us.com](#)

1 BL1
SCALE: N.T.S.

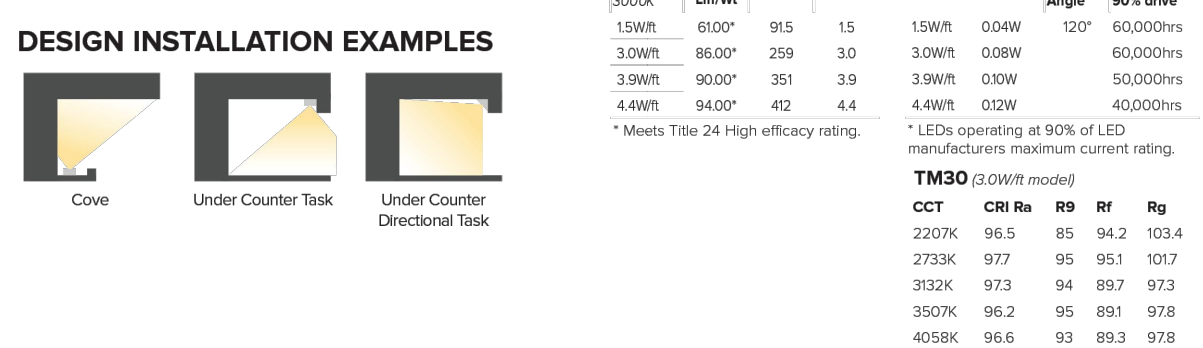
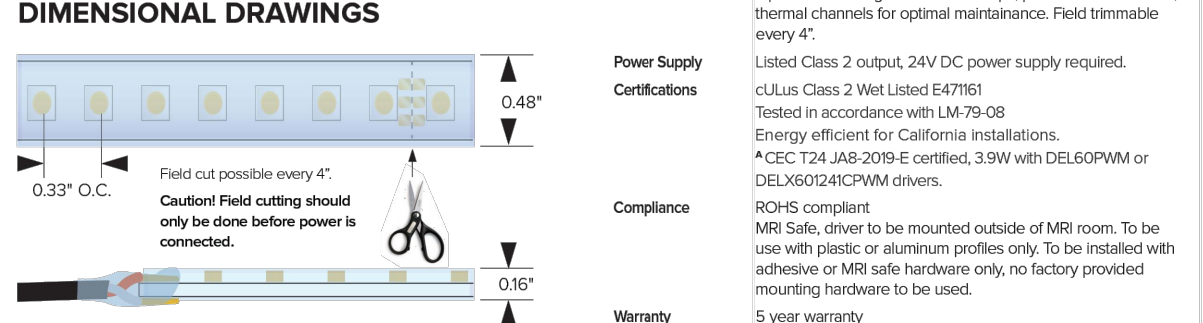
2 SL3, SL4, SL4-2 FIXTURE
SCALE: N.T.S.

3 SL3, SL4, SL4-2 POST
SCALE: N.T.S.

4 WL1, WL4
SCALE: N.T.S.

DURATAPE™ ES IP66 OUTDOOR

- KEY FEATURES**
- Energy efficient high-milrow output, narrow spaced essential white LED flexible linear light strip for continuous, consistent color in linear applications.
 - Ideal for IP66 exterior case, under-counter/aisle, lighting accents.
 - Complete with enclosed silicone jacket for outdoor rated IP66, tickle per foot.
 - Features 2-circuit substrate for optimum heat dissipation, minimizing voltage drop while increasing run lengths per power feed, standardizing electrical flow over entire length of the strip for maximum product reliability.
 - Features double sided solder points for maximum conductivity and durability.
 - Pre-assembled to specific lengths with various connector options for project requirements and efficient power configuration.
 - Max continuous length:
 - up to 30' per run (1.5W/ft)
 - up to 22' per run (3.0W/ft)
 - up to 19' per run (4.5W/ft)
 - up to 12' per run (6.0W/ft)
 - Multiple dimming options available.



PRODUCT CODE	INTENSITY	WATTAGE	IP RATING	COLOR TEMP. CH	VOLTAGE	END FERR	MOUNTING	POWER SUPPLY
DL - Duratape™ ES	Essential 16	15W/ft	27	2700K	HC	-195 CR	24	24VDC
	White	30	3000K					
		39	3900K					
		44	4400K					

QUICK SHIP [01888074254-08](#) [01888074254-08](#) [01888074254-08](#) [01888074254-08](#) [01888074254-08](#) [01888074254-08](#) [01888074254-08](#) [01888074254-08](#) [01888074254-08](#) [01888074254-08](#)

5 WL3
SCALE: N.T.S.

BEACON
RATIO Series
AREA/SITE LIGHTER

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #:

FEATURES

- Low profile LED available luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots.
- Featuring Micro Scribe Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues.
- Visual comfort standard.
- Compact and lightweight design with low EPIA.
- 3G rated for high vibration applications including bridges and overpasses.
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 2-Fin with networked controls.
- Best in class surge protection available.

CONTROL TECHNOLOGY

NX LIGHTING CONTROLS

SPECIFICATIONS

CONSTRUCTION

- Rectilinear form mimics the traditional speedway form factor keeping a simple but updated style and appearance, ideal for retrofit applications.
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface.
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish.

OPTICS

- Entire optical aperture illuminates to create a large luminous surface area resulting in a low glare appearance without sacrificing optical performance.
- 80, 90, 120 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRF CCT)
- 2-zero output at 0 degrees of tilt
- Field replaceable optics

INSTALLATION

- Standard square arm mount, compatible with B3181 pattern
- Optional universal mounting block for ease of install during retrofit applications. Available as an option or accessory for square and round poles.
- Krytox™ arm fitter option available for 2.318" OD lumen. Max of 60 degrees with degree adjustable increments. (Restrictions apply for 7-pin option)
- NX Distributed Intelligence™ available with in fixture wireless control module. Features dimming and occupancy sensor.

KEY DATA

Lumen Range	1300 - 48,000
Wattage Range	25 - 340
Efficacy Range (lm/W)	18 - 155
Fixture Projected Life (Hours)	170-60K
Weights lbs. (kg)	13.5 - 24 (6.1 - 10.9)

Current [currentlighting.com/beacon](#) Page 1 of 8
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BEACON
SSS-B Series Poles
SQUARE STRAIGHT STEEL

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #:

APPLICATIONS

- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location.

CONSTRUCTION

- SHAFT: One-piece straight steel with square cross section, flat sides and minimum 0.23" radius on all corners; Minimum yield of 46,000 psi (ASTM A500, Grade B). Longitudinal weld seam to appear flush with shaft side wall. Steel base plate with wall bolt circle slots welded flush to pole shaft having minimum yield of 35,000 psi (ASTM A36).
- BASE COVER: Two-piece square aluminum base cover included standard.
- POLE CAP: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available.
- HAND HOSE: Rectangular 3/8" steel hand hose frame (2.38" x 4.38" opening). Mounting provisions for grounding lug located behind gasketed cover.
- ANCHOR BOLTS: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for welding.
Anchor bolt part numbers: 3/4" x 3" x 3 - TAB-30-M38
1 x 3/4" x 4 - TAB-36-M38

FINISH

- Durable, thermoset polyester powder coat paint finish with nominal 3.0 mil thickness.
- Powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method.
- Decorative finish coat available in multiple standard colors; Custom colors available; RAL number preferable.

WAREHOUSE STOCKED POLES:

- SS300-404-HV-09-RDC, SS315-404-HV-09-RDC, and SS330-508-4-HV-09-RDC
- The HV designation in the above catalog numbers is a combination drill pattern of the Current S2 pattern and the Beacon B3184 Viper pattern (rectangular arm mounting)

ORDERING INFORMATION

Reference page 2 for available configurations

ORDERING EXAMPLE: **SSS-B - 25 - 40 - A/B/C - 2L - B3 - BLT - UL**

STATUS	HEIGHT	SHAFT	THICKNESS	MOUNTING	FINISH	OPTIONS
SSS-B Square Straight Steel Pole Base	Ordering page 2	Ordering page 2	Ordering page 2	Ordering page 2	Ordering page 2	Ordering page 2

MOUNTING ORIENTATION

1. Removable tenon used in conjunction with side arm mounting. The top, bottom and vertical faces of the tenon are finished to the same standard as the pole shaft.

2. Specify other location using high, low or side (Specify Orientation)

3. We recommend a pole 2" outside with 1/2" of clearance.

ACCESSORIES - Order Separately

Catalog Number	Description
ME5XX	2nd mode vibration damper

DRILL PATTERN

Code	Dimensions
B1	Circle: 3/8" diam
B2	2-bolt (2-1/2" spacing), Viper™ 3/8" diam
B3	2-bolt (2-1/2" spacing), Viper™ 3/8" diam

Current [currentlighting.com/beacon](#) Page 1 of 8
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BEACON
RATIO Wall
RW1/RWL2 LED WALL PACK

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #:

FEATURES

- Low profile LED wall luminaire with a variety of IES distributions for lighting applications such as retail, commercial and industrial building mount.
- Featuring Micro Scribe Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues.
- Visual comfort standard.
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™, WISCAPE and 2-Fin with networked controls.
- Battery Backup options available for emergency code compliance.
- Quick-mount adapter allows easy installation/maintenance.
- 347V and 480V versions for industrial applications and Canada.

CONTROL TECHNOLOGY

NX LIGHTING CONTROLS **WISCAPE**

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface.
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish.
- Powder paint finish provides durability in outdoor environments. Tested to meet 1000 hour salt spray rating.

OPTICS

- Entire optical aperture illuminates to create a large luminous surface area resulting in a low glare appearance without sacrificing optical performance.
- 48 or 90 midpower LEDs
- 3000K, 4000K or 5000K (70 CRF CCT)
- LED optics provide IES type I, II and IV distributions. Type IV available in RWL2 configurations.

INSTALLATION

- Quick-mount adapter provides easy installation to wall or in recessed junction boxes (if square junction box).
- Designed for direct (D) box mount.
- Integral back box contains 12" conduit hubs.
- Integral back box standard with Dual Driver Dual Power Feed, NX, WISCAPE and battery versions (battery version for RWL only).
- Integral Battery Backup provides emergency lighting for the required 90 minute path of egress.

ELECTRICAL

- 120V-277V universal voltage 50/60Hz 0-10V dimming drivers
- 347V and 480V dimmable driver option for all voltages above 30V
- Ambient operating temperature -40°C to 40°C
- Driver: RH45 and IP66

KEY DATA

Lumen Range	1300 - 18300
Wattage Range	10 - 155
Efficacy Range (lm/W)	18 - 148
Weights lbs. (kg)	5.5/1.5 (2.5/0.7)

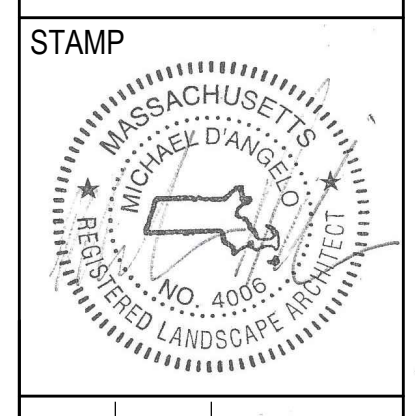
Current [currentlighting.com/beacon](#) Page 1 of 8
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BOSTON, MA

PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA



REV. NO.	DATE	DESCRIPTION
1	5/11/23	FOR PERMIT
1	7/17/23	RESPONSE TO COMMENTS
2	8/10/23	RESPONSE TO COMMENTS
3	8/28/23	RESPONSE TO COMMENTS

LIGHTING
SCHEDULE &
CUT SHEETS

DRAWN:
NC
CHECKED:
AS NOTED
SCALE:
AS NOTED
DATE:
5/11/2023

L116

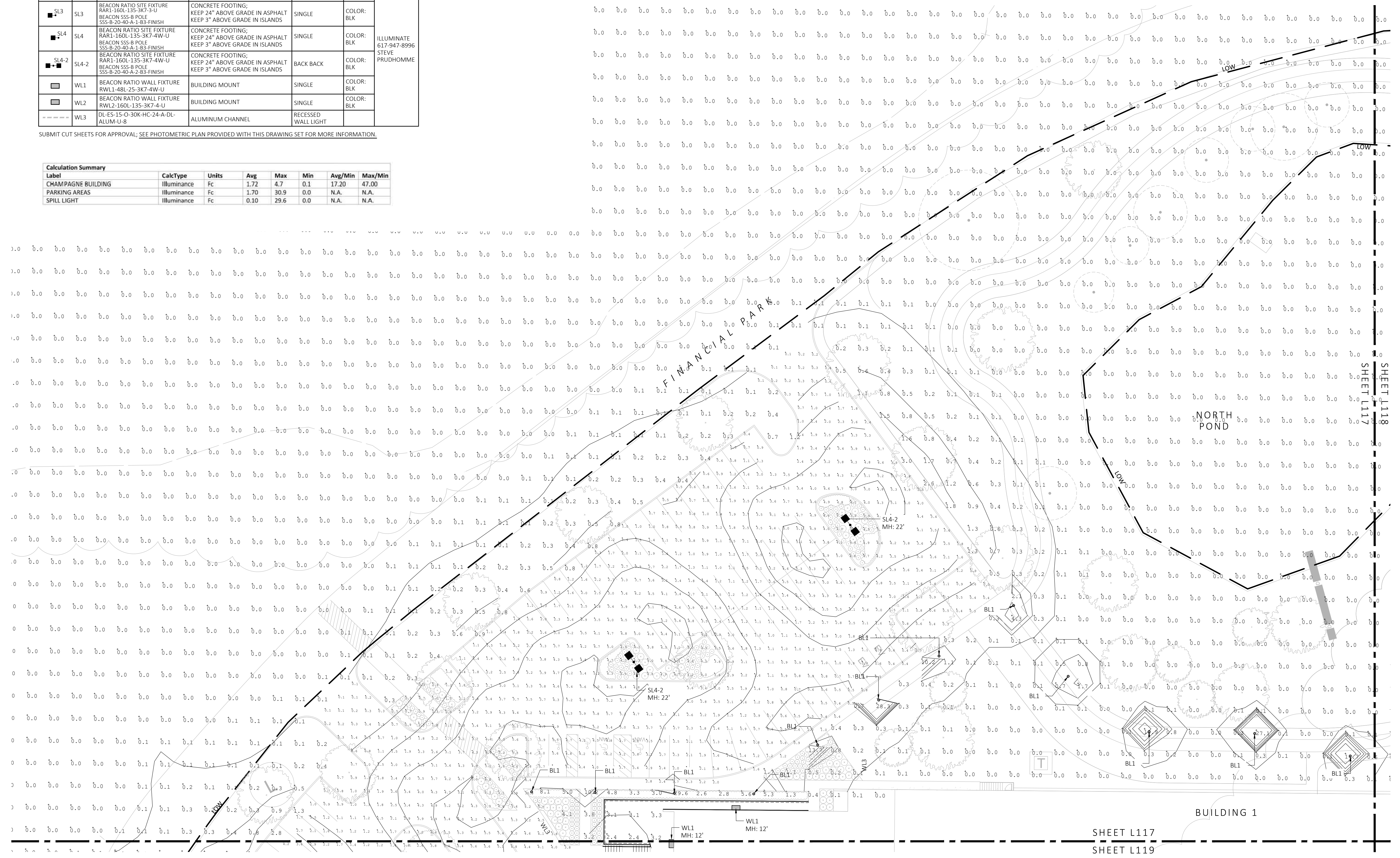
SHEET 17 OF 24

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LIGHT SCHEDULE						
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
○	BL1	ARLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
■	SL3	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON 555-B POLE 555-B-20-40-A-189-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	ILLUMINATE 617-947-8996 STEVE PRUDHOMME
■	SL4	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON 555-B POLE 555-B-20-40-A-189-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	
■	SL4-2	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON 555-B POLE 555-B-20-40-A-2-189-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	BACK BACK	COLOR: BLK	
□	WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
□	WL2	BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
---	WL3	DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8	ALUMINUM CHANNEL	RECESSED WALL LIGHT		

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CHAMPAGNE BUILDING	illuminance	Fc	1.72	4.7	0.1	17.20	47.00
PARKING AREAS	illuminance	Fc	1.70	30.9	0.0	N.A.	N.A.
SPILL LIGHT	illuminance	Fc	0.10	29.6	0.0	N.A.	N.A.



1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"



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PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA

STAMP
MICHAEL D'ANGELO
LANDSCAPE ARCHITECT
NO. 4098
REGISTERED PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION
1	5/11/23	FOR PERMIT
2	7/17/23	RESPONSE TO COMMENTS
3	8/10/23	RESPONSE TO COMMENTS
4	8/25/23	RESPONSE TO COMMENTS

DRAWN: NC
CHECKED: AS NOTED
SCALE: L117
AS NOTED
DATE: 5/11/2023

SHEET 18 OF 24

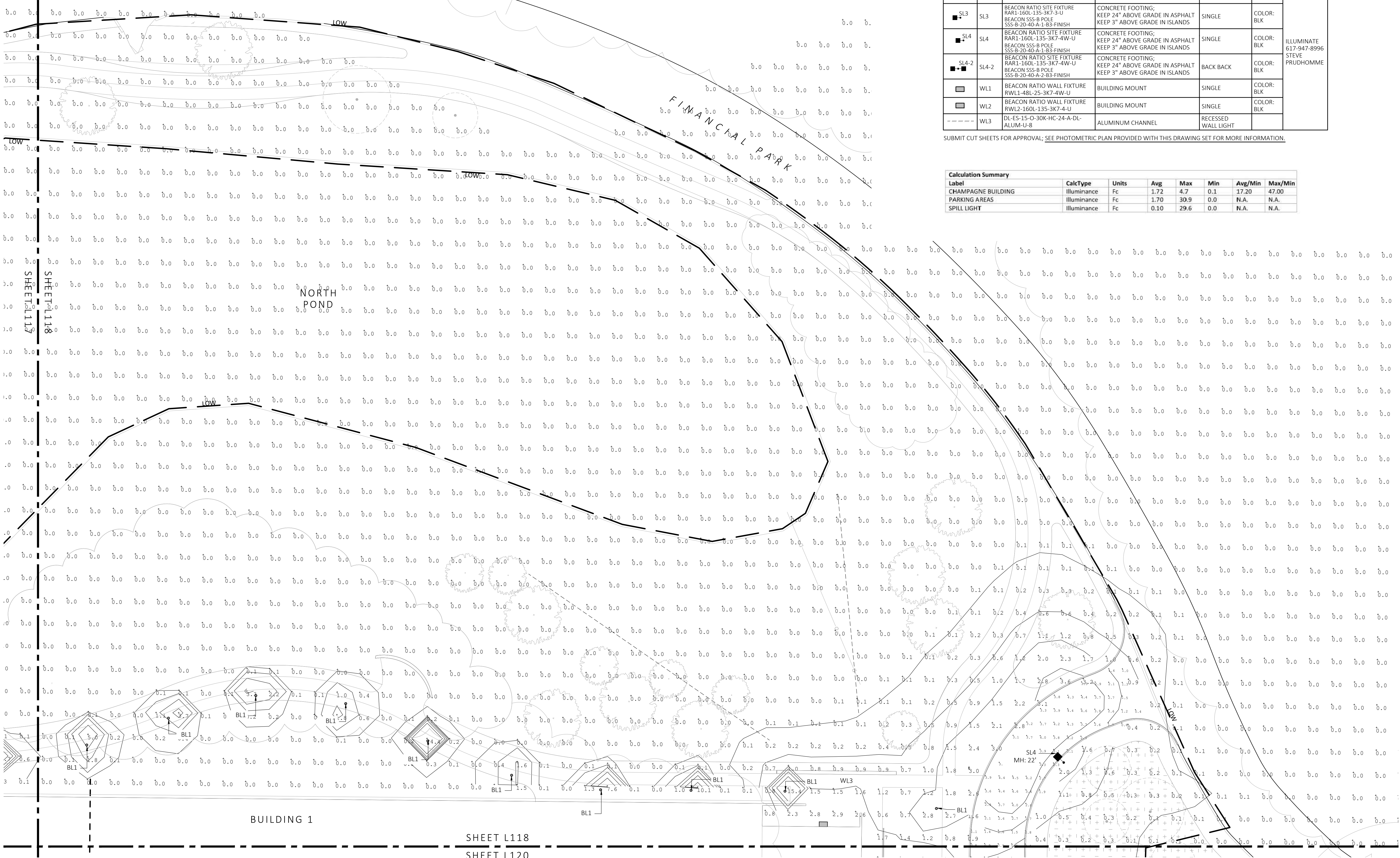
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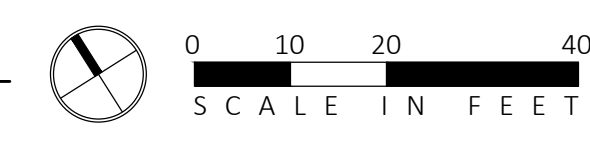
LIGHT SCHEDULE						
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
○	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
■	SL3	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	ILLUMINATE 617-947-8996 STEVE PRUDHOMME
■	SL4	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	
■	SL4-2	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	BACK BACK	COLOR: BLK	
□	WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
□	WL2	BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
---	WL3	DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8	ALUMINUM CHANNEL	RECESSED WALL LIGHT		

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CHAMPAGNE BUILDING	Illuminance	Fc	1.72	4.7	0.1	17.20	47.00
PARKING AREAS	Illuminance	Fc	1.70	30.9	0.0	N.A.	N.A.
SPILL LIGHT	Illuminance	Fc	0.10	29.6	0.0	N.A.	N.A.



1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"



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PROJECT
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100 / 200 FINANCIAL PARK
FRANKLIN, MA

STAMP
MICHAEL D'ANGELO
LANDSCAPE ARCHITECT
NO. 4098
REGISTERED LANDSCAPE ARCHITECT

REV. NO.	DATE	DESCRIPTION
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1	7/17/23	RESPONSE TO COMMENTS
2	8/10/23	RESPONSE TO COMMENTS
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PHOTOMETRIC PLAN

DRAWN:
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CHECKED:
AS NOTED

SCALE:
AS NOTED

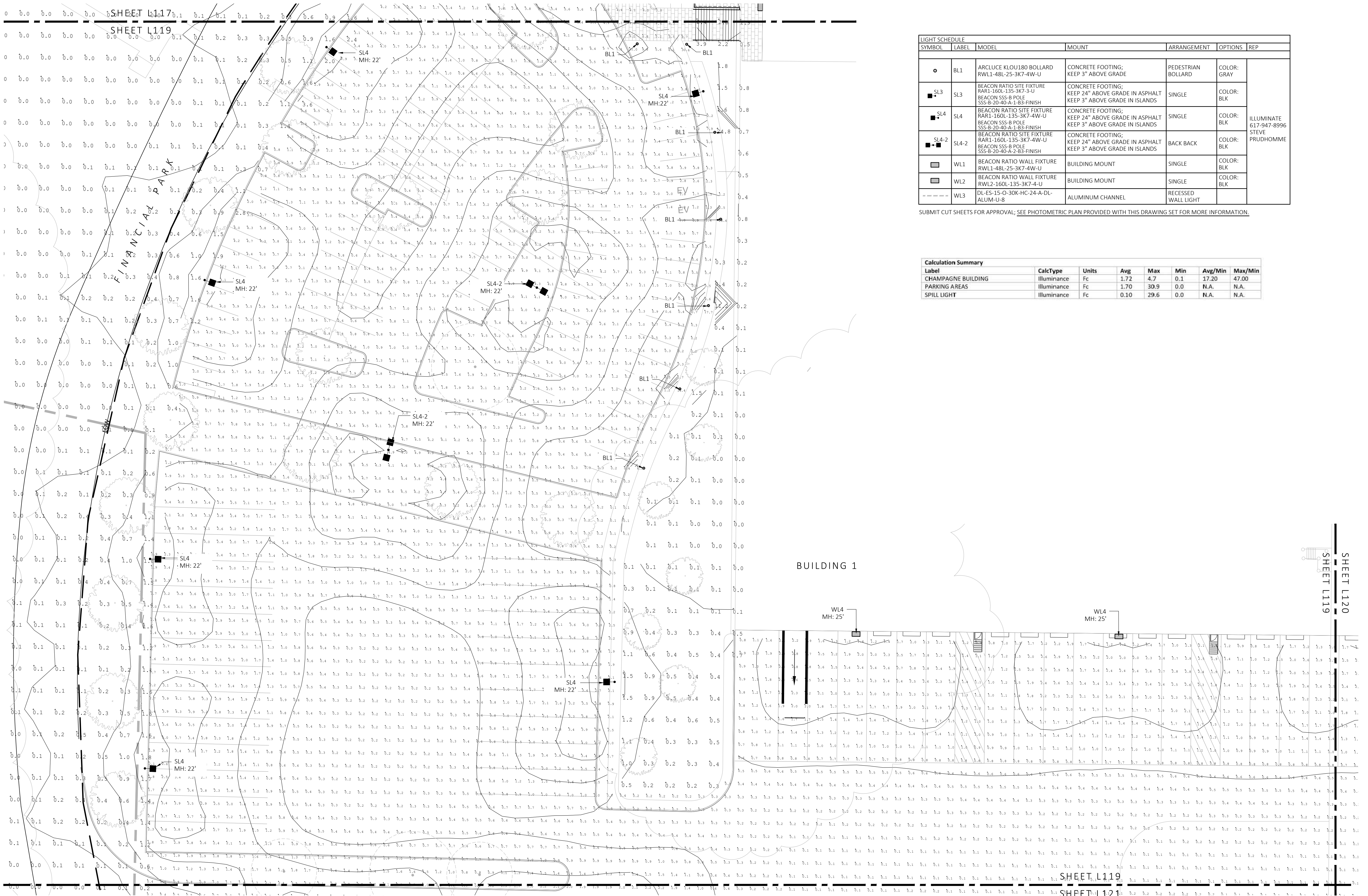
DATE:
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SHEET 19 OF 24

plot date: 8/25/2023

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LIGHT SCHEDULE						
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
○	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
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■	SL4	BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-4G-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	
■	SL4-2	BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-4G-A-2-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	BACK BACK	COLOR: BLK	
■	WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
■	WL2	BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
---	WL3	DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8	ALUMINUM CHANNEL	RECESSED WALL LIGHT		

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CHAMPAGNE BUILDING	ILLUMINANCE	Fc	1.72	4.7	0.1	17.20	47.00
PARKING AREAS	ILLUMINANCE	Fc	1.70	30.9	0.0	N.A.	N.A.
SPILL LIGHT	ILLUMINANCE	Fc	0.10	29.6	0.0	N.A.	N.A.

1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"



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FRANKLIN, MA

STAMP
MICHAEL D'ANGELO
REGISTERED LANDSCAPE ARCHITECT
NO. 4098
STATE OF MASSACHUSETTS

REV. NO.	DATE	DESCRIPTION
1	5/11/23	FOR PERMIT
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2	8/10/23	RESPONSE TO COMMENTS
3	8/25/23	RESPONSE TO COMMENTS

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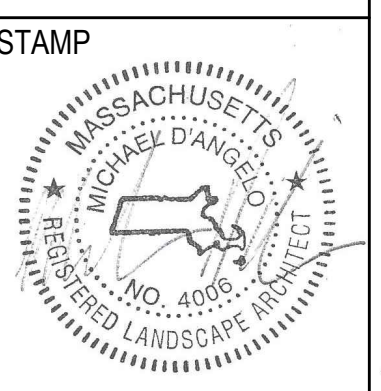
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DATE: 5/11/2023

L119

SHEET 20 OF 24

plot date: 8/25/2023

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3	8/23/23	RESPONSE TO COMMENTS

PHOTOMETRIC PLAN

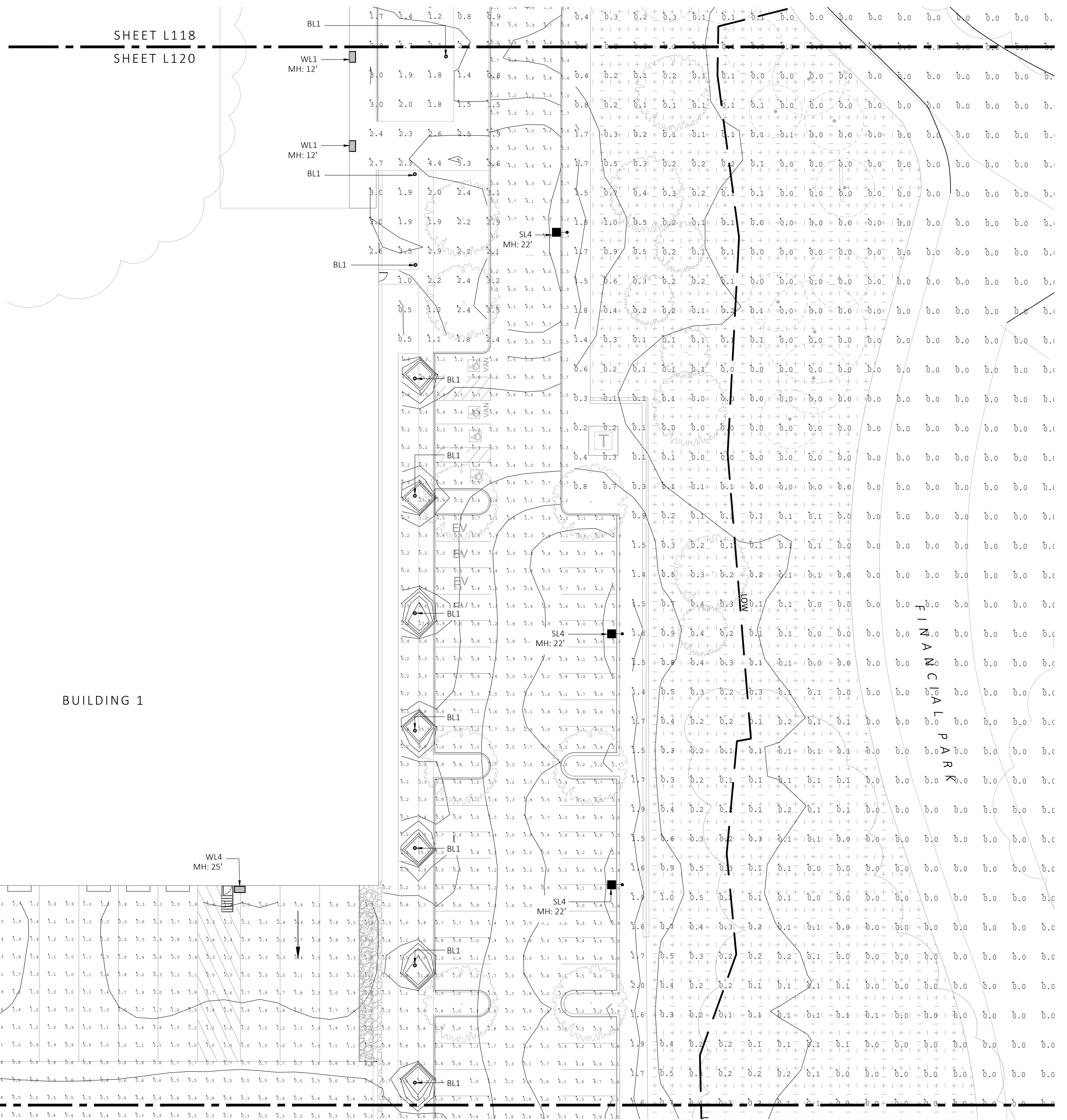
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LIGHT SCHEDULE						
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
○	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
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■	SL4	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B-POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	ILLUMINATE 617-947-8996 STEVE PRUDHOMME
■	SL4-2	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B-POLE SSS-B-20-40-A-2-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	BACK BACK	COLOR: BLK	
□	WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
□	WL2	BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
---	WL3	DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8	ALUMINUM CHANNEL	RECESSED WALL LIGHT		

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

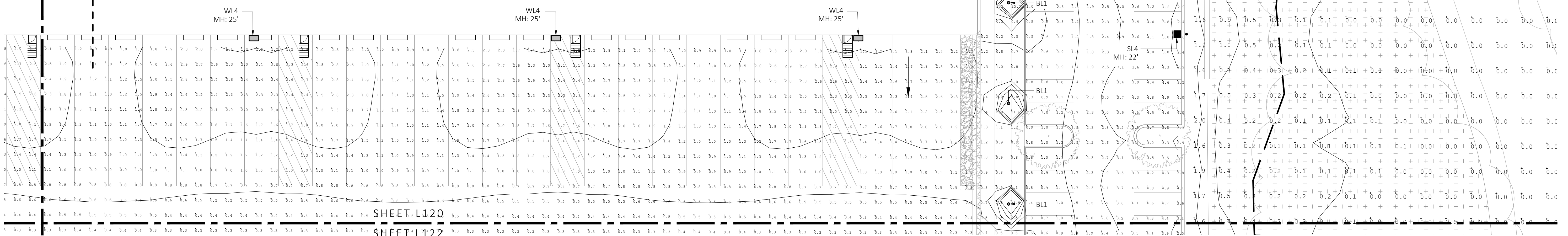
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PARKING AREAS	illuminance	Fc	1.70	30.9	0.0	N.A.	N.A.
SPILL LIGHT	illuminance	Fc	0.10	29.6	0.0	N.A.	N.A.

SHEET L118
SHEET L120



BUILDING 1

SHEET L119
SHEET L120



1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"

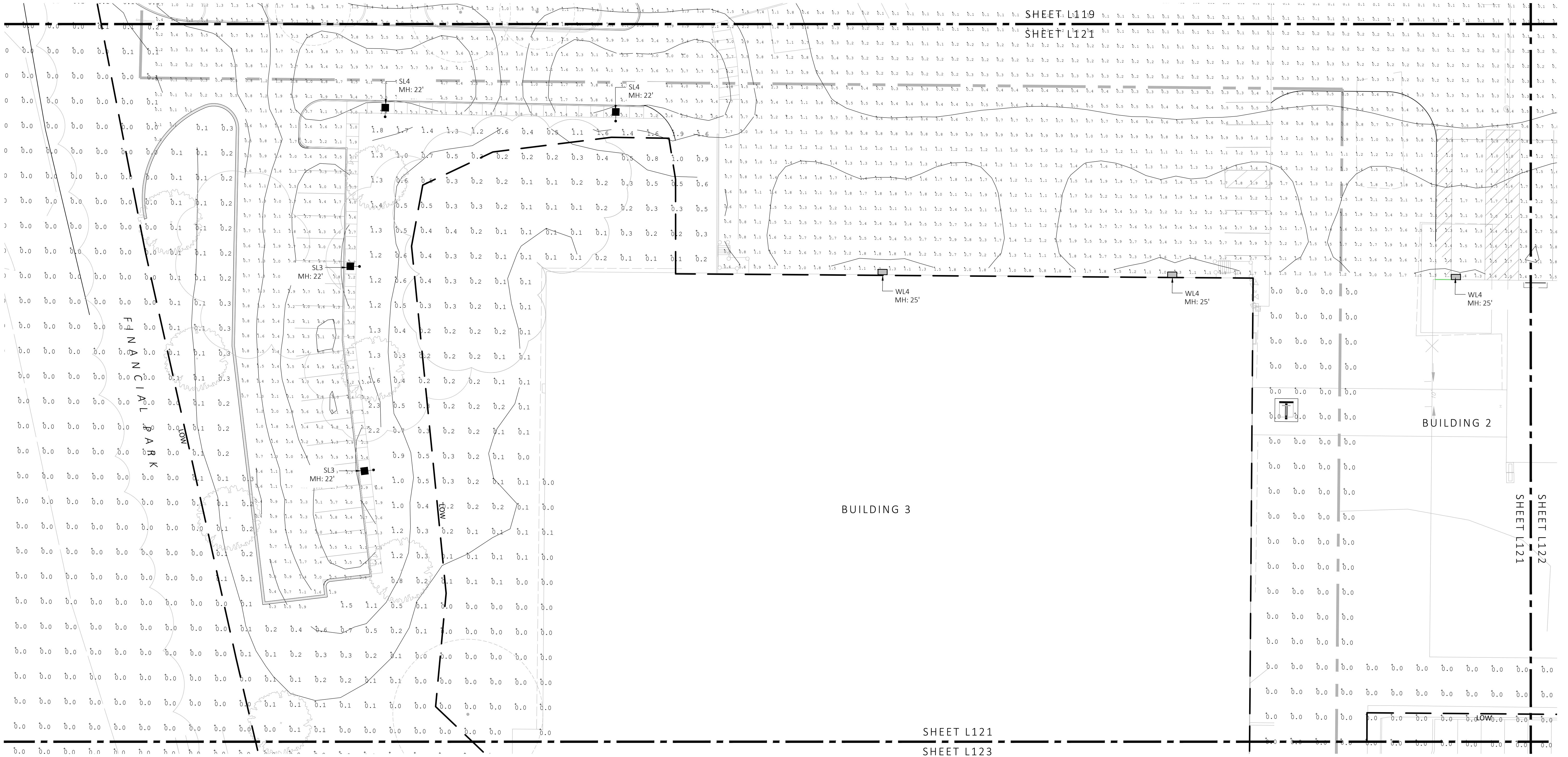


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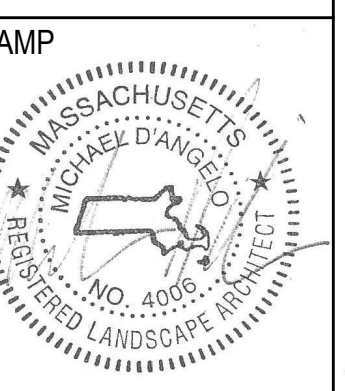
LIGHT SCHEDULE						
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
○	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
■	SL3	BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	ILLUMINATE 617-947-8996 STEVE PRUDHOMME
■	SL4	BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	
■	SL4-2	BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-2-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	BACK BACK	COLOR: BLK	
■	WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
■	WL2	BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
---	WL3	DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8	ALUMINUM CHANNEL	RECESSED WALL LIGHT		

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CHAMPAGNE BUILDING	illuminance	Fc	1.72	4.7	0.1	17.20	47.00
PARKING AREAS	illuminance	Fc	1.70	30.9	0.0	N.A.	N.A.
SPILL LIGHT	illuminance	Fc	0.10	29.6	0.0	N.A.	N.A.



1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"

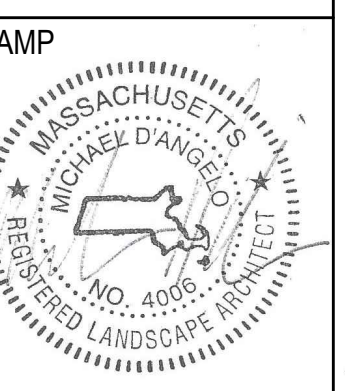


REV. NO.	DATE	DESCRIPTION
	5/11/23	FOR PERMIT
1	7/17/23	RESPONSE TO COMMENTS
2	8/10/23	RESPONSE TO COMMENTS
3	8/25/23	RESPONSE TO COMMENTS

PHOTOMETRIC PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: AS NOTED
DATE: 5/11/2023
L121

FOR PERMIT ONLY
NOT FOR CONSTRUCTION



REV. NO.	DATE	DESCRIPTION
1	5/11/23	FOR PERMIT
2	7/17/23	RESPONSE TO COMMENTS
3	8/10/23	RESPONSE TO COMMENTS
4	8/23/23	RESPONSE TO COMMENTS

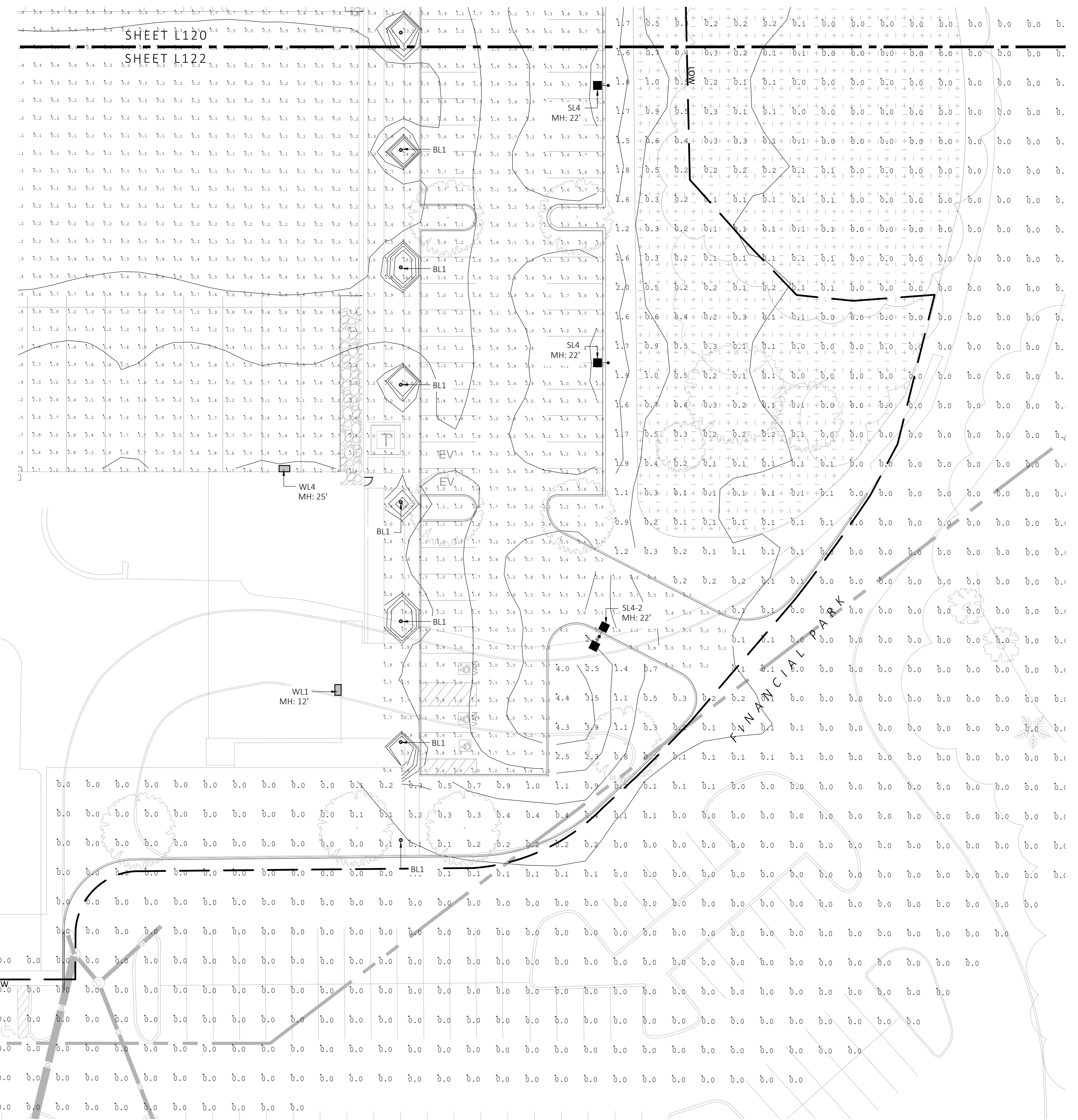
PHOTOMETRIC PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: AS NOTED
DATE: 5/11/2023

LIGHT SCHEDULE						
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
○	BL1	ARLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
■	SL3	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	ILLUMINATE 617-947-8996 STEVE PRUDHOMME
■	SL4	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	
■	SL4-2	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-2-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	BACK BACK	COLOR: BLK	
□	WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
□	WL2	BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
---	WL3	DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8	ALUMINUM CHANNEL	RECESSED WALL LIGHT		

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CHAMPAGNE BUILDING	illuminance	Fc	1.72	4.7	0.1	17.20	47.00
PARKING AREAS	illuminance	Fc	1.70	30.9	0.0	N.A.	N.A.
SPILL LIGHT	illuminance	Fc	0.10	29.6	0.0	N.A.	N.A.

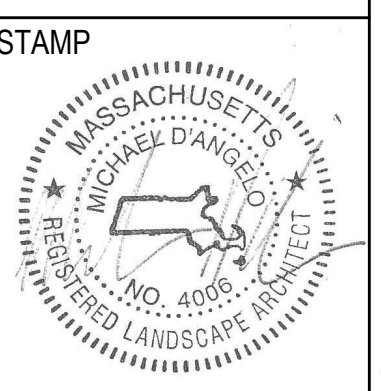


SHEET L121
SHEET L122
SHEET L123

1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"



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PHOTOMETRIC PLAN

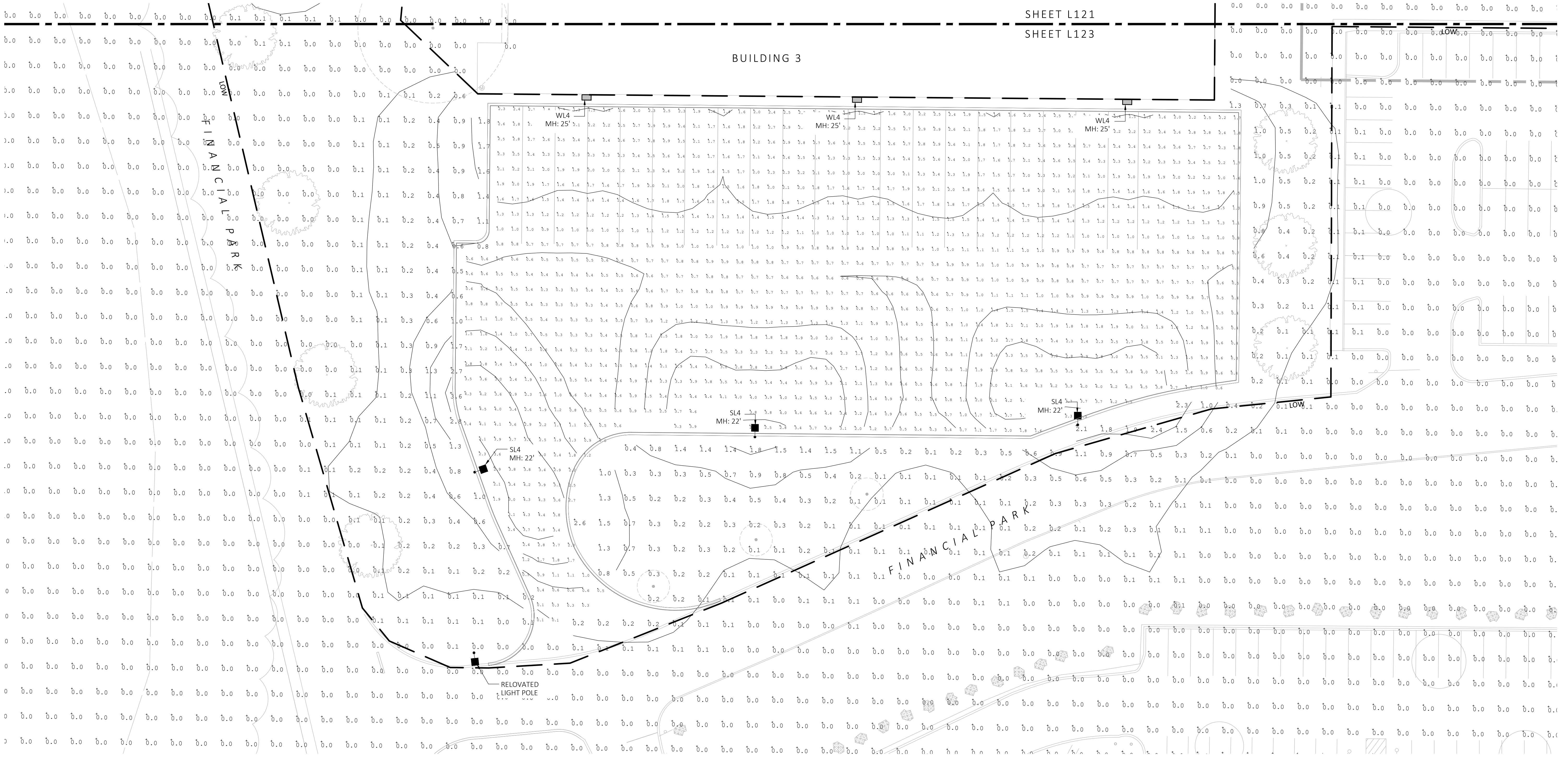
DRAWN: NC
CHECKED: AS NOTED
SCALE: AS NOTED
DATE: 5/11/2023

L123

LIGHT SCHEDULE						
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
○	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
■	SL3	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40-A-1-83-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	
■	SL4	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-83-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	ILLUMINATE 617-947-8996 STEVE PRUDHOMME
■	SL4-2	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-83-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	BACK BACK	COLOR: BLK	
□	WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
□	WL2	BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
---	WL3	DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8	ALUMINUM CHANNEL	RECESSED WALL LIGHT		

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
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PARKING AREAS	ILLUMINANCE	Fc	1.70	30.9	0.0	N.A.	N.A.
SPILL LIGHT	ILLUMINANCE	Fc	0.10	29.6	0.0	N.A.	N.A.



1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"



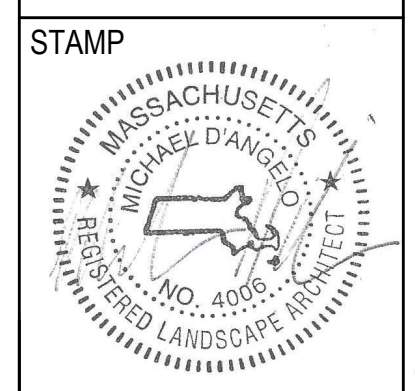
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MDLA
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BOSTON, MA

PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA



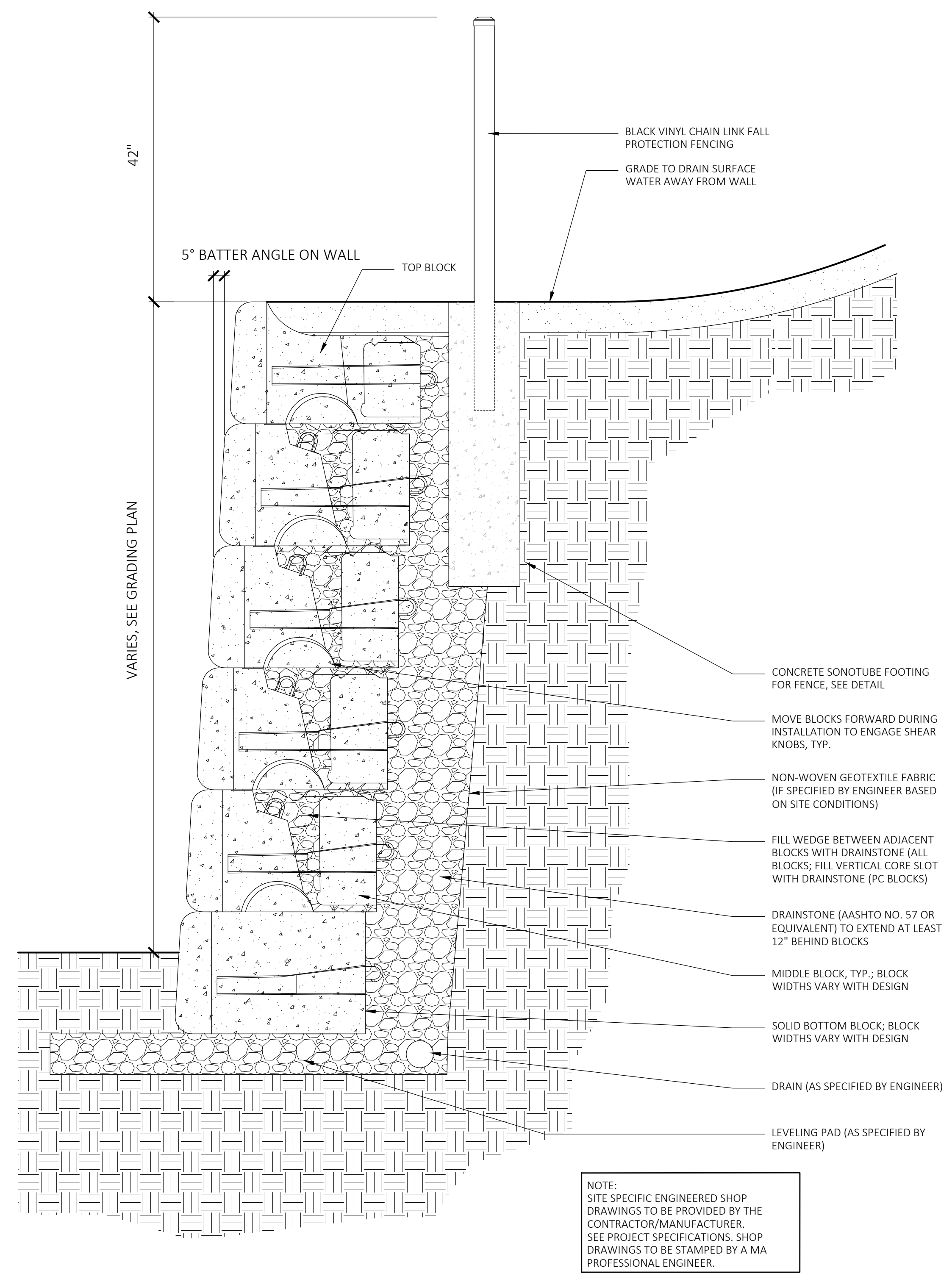
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3	8/23/23	RESPONSE TO COMMENTS

LANDSCAPE DETAILS

DRAWN: NC
CHECKED: AS NOTED
SCALE: **L124**
AS NOTED
DATE: 5/11/2023

SHEET 19 OF 24

plot date: 8/25/2023



1 GRAVITY BLOCK RETAINING WALL
SCALE: 1" = 1'-0"