Town of Franklin

355 East Central Street Franklin, Massachusetts 02038-1352



Phone: (508) 520-4907 www.franklinma.gov

DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT

MEMORANDUM

DATE: January 3, 2024

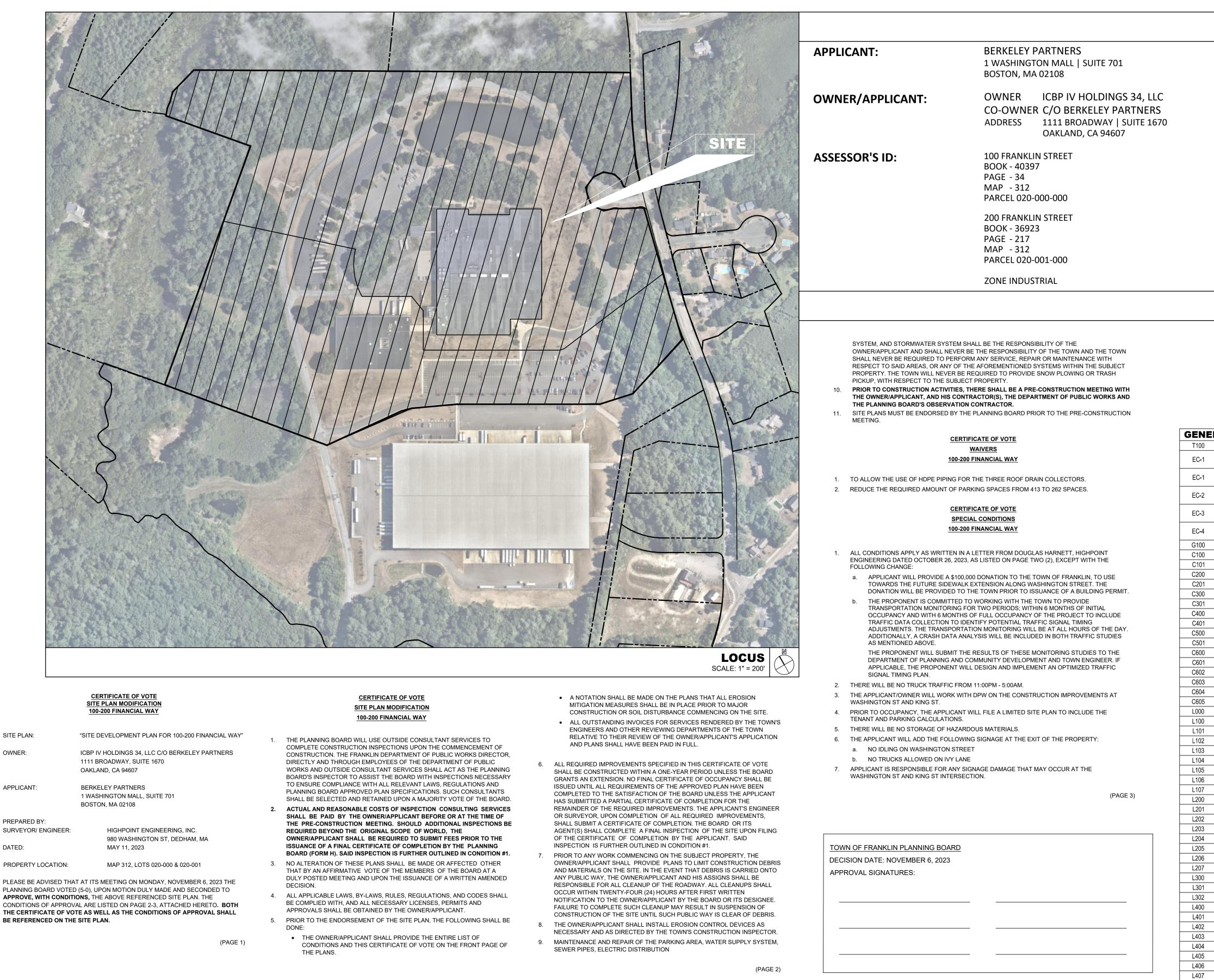
TO: Franklin Planning BoardFROM: Department of Planning and Community DevelopmentRE: 100-200 Financial Way

Site Plan - Endorsement

General:

- 1. The Planning Board voted to approve the Site Plan for 100-200 Financial Way on November 6, 2023.
- 2. The Certificate of Vote has been added to the Site Plans.

DPCD has no further comment.



SITE PLAN: OWNER: APPLICANT: PREPARED BY: SURVEYOR/ ENGINEER: DATED:

PLANNING BOARD VOTED (5-0). UPON MOTION DULY MADE AND SECONDED TO APPROVE, WITH CONDITIONS, THE ABOVE REFERENCED SITE PLAN. THE CONDITIONS OF APPROVAL ARE LISTED ON PAGE 2-3, ATTACHED HERETO. BOTH THE CERTIFICATE OF VOTE AS WELL AS THE CONDITIONS OF APPROVAL SHALL BE REFERENCED ON THE SITE PLAN.

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WAREHOUSE/INDUSTRIAL DEVELOPMENT SITE DEVELOPMENT PLANS www.HighpointEng.com Berkeley Partners 100/200 FINANCIAL PARK FRANKLIN, MASSACHUSETTS 1 WASHINGTON MALL | Suite 70⁻ BOSTON, MA 02108 **PERMIT SET: MAY 11, 2023 PROJECT TEAM CIVIL ENGINEER:** HIGHPOINT ENGINEERING, INC. 980 WASHINGTON STREET |SUITE 216 DEDHAM, MA 02026 TEL: (781) 770-0970 ATTN: Douglas Hartnett www.highpointeng.com HANCOCK ASSOCIATES LAND SURVEYOR/ WETLAND CONSULTANT: **315 ELM STREET** MARLBOROUGH, MA 01752 TEL: (508) 460-1111 12-07-202 TRAFFIC CONSULTANT: MDM TRANSPORTATION CONSULTANTS 28 LORD ROAD MARLBOROUGH, MA 01752 TEL: (508) 380-9088 ARCHITECT: RODE ARCHITECTS 535 ALBANY STREET, #405 BOSTON, MA 02118 www.rodearchitects.com LANDSCAPE ARCHITECT: MICHAEL D'ANGELO LOPMENT LANDSCAPE ARCHITECTS 840 SUMMER STREET | SUITE 201A BOSTON, MA 02110 **INDEX OF DRAWINGS** ХE ĹШ \square **STRIAL ISSUE HISTORY** GENERAL TITLE SHEET \bullet \bullet \bullet \bullet \bullet LIMITED/COMPILED EXISTING CONDITIONS PLAN COVER SHEET (B) Z • OTHERS) LIMITED/COMPILED EXISTING CONDITIONS PLAN OF LAND IN FRANKLIN, MA • • • • ш (BY OTHERS) S LIMITED/COMPILED EXISTING CONDITIONS PLAN OF LAND IN FRANKLIN, MA • • (BY OTHERS) LIMITED/COMPILED EXISTING CONDITIONS PLAN OF LAND IN FRANKLIN, MA Ο • • • (BY OTHERS) LIMITED/COMPILED EXISTING CONDITIONS PLAN OF LAND IN FRANKLIN, MA • • • • • ш (BY OTHERS) 2 GENERAL NOTES SHEET \bullet \bullet \bullet • • SITE CONFORMANCE PLAN $\bullet | \bullet | \bullet | \bullet$ \bullet | \bullet | \bullet KEY SHEET \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet SITE PREPARATION & DEMOLITION PLAN $\bullet | \bullet | \bullet | \overline{\bullet}$ • • • SITE PREPARATION & DEMOLITION PLAN \bullet \bullet \bullet $\bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet$ C300 LAYOUT & MATERIALS PLAN $\bullet | \bullet | \bullet | \bullet$ \bullet \bullet \bullet LAYOUT & MATERIALS PLAN \bullet \bullet \bullet $\bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet$ **GRADING & DRAINAGE PLAN** \bullet \bullet \bullet \bullet \bullet GRADING & DRAINAGE PLAN \bullet \bullet \bullet $\bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet$ C500 UTILITY PLAN \bullet | \bullet | \bullet $\bullet | \bullet | \bullet | \bullet$ UTILITY PLAN \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet SITE DETAILS • • • \bullet \bullet \bullet \bullet C601 SITE DETAILS \bullet \bullet \bullet $\bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet$ 12.07.2023 PLANNING BOARD ENDORSEMEN C602 SITE DETAILS 10.26.2023 RESPONSE TO COMMENTS $\bullet | \bullet | \bullet | \bullet$ \bullet \bullet \bullet 10.19.2023 RESPONSE TO COMMENTS SITE DETAILS \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet 10.05.2023 RESPONSE TO COMMENTS SITE DETAILS 08.25.2023 RESPONSE TO COMMENTS \bullet \bullet \bullet \bullet 08.14.2023 RESPONSE TO COMMENTS SITE DETAILS • | • 07.17.2023 RESPONSE TO COMMENTS L000 KEY PLAN REV DATE DESCRIPTION MATERIALS PLAN MATERIALS PLAN ISSUE TYPE: $\bullet | \bullet | \bullet$ L102 MATERIALS PLAN PERMIT SET L103 MATERIALS PLAN ISSUE DATE: MATERIALS PLAN 05/11/2023 MATERIALS PLAN $\bullet | \bullet | \bullet | \bullet | \bullet | \bullet | \bullet | \bullet$ PROJECT NUMBER: L106 MATERIALS PLAN $\bullet | \bullet | \bullet | \bullet | \bullet | \bullet | \bullet | \bullet$ 22051 MATERIALS PLAN PLANTING & LIGHTING PLAN PLANTING & LIGHTING PLAN DRAWN BY: JJP / CCL/ WH $\bullet | \bullet | \bullet | \bullet | \bullet | \bullet | \bullet | \bullet$ PLANTING & LIGHTING PLAN CHECKED BY: DJH PLANTING & LIGHTING PLAN $\bullet | \bullet | \bullet | \bullet | \bullet | \bullet | \bullet | \bullet$ Copyright (c) by Highpoint Engineering, Inc. PLANTING & LIGHTING PLAN $\bullet \quad \bullet \quad \bullet$ All Rights Reserved. PLANTING & LIGHTING PLAN $\bullet | \bullet | \bullet | \bullet | \bullet | \bullet | \bullet | \bullet$ HEET TITLE: PLANTING & LIGHTING PLAN $\bullet | \bullet | \bullet | \bullet | \bullet | \bullet | \bullet | \bullet$ PLANTING & LIGHTING PLAN $\bullet \quad \bullet \quad \bullet$ PLANTING SCHEDULE & DETAILS LIGHTING SCHEDULE & CUT SHEETS LANDSCAPE DETAILS TITLE SHEET LANDSCAPE PHOTOMETRIC PLAN $\bullet \quad \bullet \quad \bullet$ LANDSCAPE PHOTOMETRIC PLAN $\bullet \quad \bullet \quad \bullet$ LANDSCAPE PHOTOMETRIC PLAN $\bullet \quad \bullet \quad \bullet$ LANDSCAPE PHOTOMETRIC PLAN LANDSCAPE PHOTOMETRIC PLAN LANDSCAPE PHOTOMETRIC PLAN $\bullet \quad \bullet \quad \bullet$ SHEET NUMBER: LANDSCAPE PHOTOMETRIC PLAN $\bullet \quad \bullet \quad \bullet$ L407 LANDSCAPE PHOTOMETRIC PLAN

LEGEND

E	ELECTRIC MANHOLE & UNDERGROUND ELECTRIC LINES
	TELEPHONE MANHOLE & UNDERGROUND
—_FOFO	FIBER OPTIC LINES
O IR	IRON ROD
BIT.	BITUMINOUS
(C)	CALCULATED
CONC.	CONCRETE
(F)	FOUND
(R)	RECORD
A	POST INDICATOR VALVE
茶	CAMERA
•	DRY WELL
¢ •	LIGHT POLE
- -	BOLLARD SIGN
	3/6/4
• D	H DRILL HOLE
□ DH	CB DRILL HOLE IN CONCRETE BOUND
o DH.	SB DRILL HOLE IN STONE BOUND
E CE	B CATCH BASIN
© SM.	H SEWER MANHOLE
W6"CI	WATER MANHOLE, WATER MAIN WITH SIZE, TEE, GATE VALVE & FIRE HYDRANT
G <i>G10"DI</i>	GAS MAIN WITH SIZE & GATE VALVE
OHW-	EXISTING UTILITY POLE WITH DESIGNATION
	OVERHEAD WIRES AND GUY POLE
	AREA OF FLOOD ZONES (SEE NOTE 10)
000000000000000000000000000000000000000	STONE WALL
<u> </u>	METAL GUARDRAIL
	EDGE OF PAVEMENT
x x	WIRE FENCE
	EDGE OF GRAVEL ROAD
T/ C	TELECOMMUNICATIONS EASEMENT
•208.8 WFA2	LIMIT OF BORDERING VEGETATED WETLAND WITH FLAG NUMBER AND ELEVATION
	LIMIT OF 25-FOOT NO DISTURB WETLAND BUFFER ZONE
O	LIMIT OF 50–FOOT NO BUILD ZONE WETLAND BUFFER ZONE LIMIT OF 100–FOOT WETLAND BUFFER ZONE
S	SEWERLINE & MANHOLE
	DRAINLINE WITH CATCHBASIN, MANHOLE & ROUND CATCHBASIN
<u>A</u>	LIMIT OF 100-YEAR FLOOD PLAIN (SEE NOTE 10 & 11)
	LIMIT OF FEMA FLOOD WAY (SEE NOTE 10)
	LIMIT OF 100-FOOT INNER RIPPARIAN ZONE
	LIMIT OF 200-FOOT OUTER RIPPARIAN ZONE

LIMITED/COMPLIED EXISTING CONDITIONS PLAN FOR 100 & 200 FINANCIAL PARK FRANKLIN, MA OCTOBER 24, 2022 REV. JULY 24, 2023

ABUTTERS EAST OF WASHINGTON STREET:

- #1: 312-006-000-000 HALLIE WETZELL & NICHOLAS PAONE 394 WASHINGTON STREET, FRANKLIN. MA DEED BOOK 31636, PAGE 270
- #2: 312-011-000-000 TOWN OF FRANKLIN DEED BOOK 9381, PAGE 124
- #3: 312-007-000-000 MICHAEL CARUSO & VANESSA CARUSO 2 IVY LANE, FRANKLIN, MA DEED BOOK 35089, PAGE 415
- #4: 312-016-000-000 KEVIN & KATIE BOYCE 1 IVY LANE, FRANKLIN, MA DEED BOOK 36017, PAGE 305
- #5: 312-017-000-000 SUZANNA & AMBER SARKAR JOANNE HEBERT SARKAR 460 WASHINGTON STREET, FRANKLIN. MA DEED BOOK 40155, PAGE 457

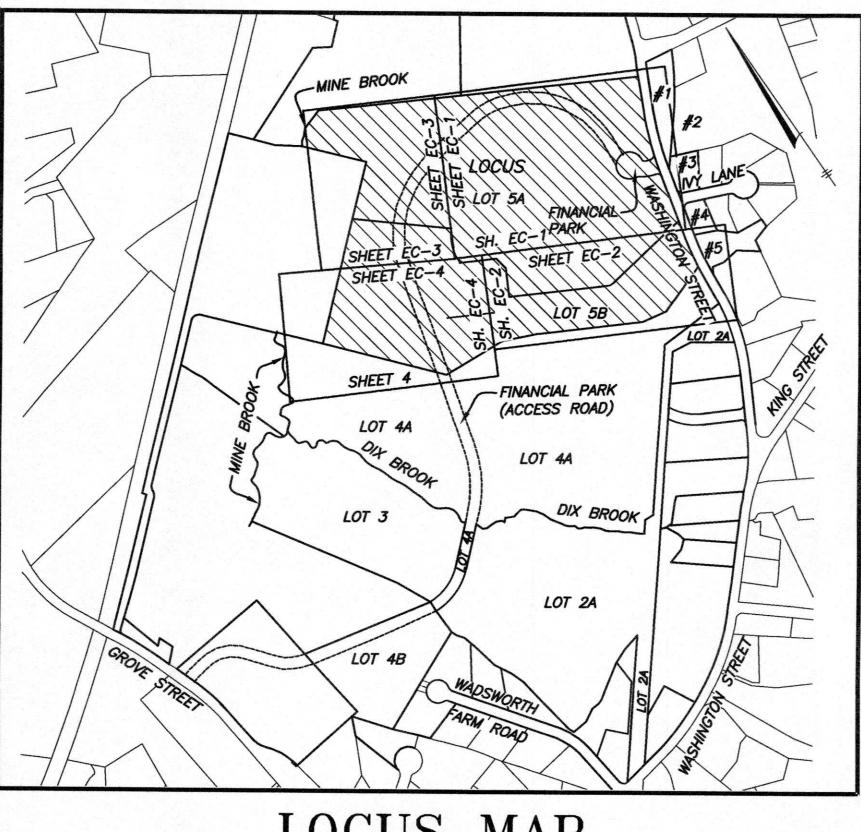
RECORD OWNERS: ICBP IV HOLDINGS 34. LLC C/O BERKELEY PARTERS 1 SANSOME STREET, SUITE 1500 SAN FRANCISCO, CALIFORNIA

ASSESSORS' PARCEL ID: LOT 5A: 312-020-000-000 LOT 5B: 312-020-001-000 W/R/T EASEMENT OVER LOT 4A LOT 4A: 321-060-000-000

REFERENCES:

DEED BOOK 36923, PAGE 217 PLAN BOOK 56, PLAN 2653 & 2654 PLAN BOOK 107, PAGE 253 PLAN BOOK 117, PAGES 388 & 389 PLAN BOOK 190, PAGE 1305 PLAN 262 OF 1977, PLAN BOOK 259 PLAN BOOK 281, PLAN 323 OF 1980 PLAN 322 OF 1980, PLAN BOOK 281 PLAN BOOK 665, PAGES 8 & 9 PLAN BOOK 672, PAGE 97 & 98 PLAN BOOK 675, PAGE 39 PLAN BOOK 676, PAGE 49 PLAN BOOK 678, PAGES 8 & 9 PLAN BOOK 701, PAGE 31 PLAN BOOK 281, PLAN 323 OF 1980

ZONING: INDUSTRIAL



LOCUS MAP 1"=500'



HANCOCK ASSOCIATES **315 ELM STREET** MARLBOROUGH, MA 01752 PHONE (508) 460-1111

CIVIL ENGINEER

HIGHPOINT ENGINEERING, INC. **980 WASHINGTON STREET** DEDHAM. MA 02026 PHONE (781) 770-0973



NOTES:

1) PROJECT SOURCE BENCHMARK IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988

2) THE PURPOSE OF THIS PLAN IS TO FACILITATE CONCEPT DESIGN ONLY. IT COMPILES INFORMATION FROM THE FOLLOWING SOURCES:

- A: TOPOGRAPHY AND WETLANDS (SERIES F&G) NEAR WASHINGTON STREET FROM 2016 ANRAD BY THIS OFFICE.
- B: REMAINDER OF WETLANDS FROM 2019 WETLANDS PLAN OF LOT 5 BY THIS OFFICE. C: 2020 SITE "AS-BUILT" BY THIS OFFICE OF LOT 4A (TO THE SOUTH) WHICH INCLUDES PARKING
- EASEMENT ON LOT 5A AND ACCESS EASEMENT TO FINANCIAL PARK CUL-DE-SAC.
- D: UTILITY LOCATIONS FROM 2021 ALTA PLAN FOR LOT 5A AND LOT 5B. E: PORTIONS OF CONTOURS FROM NOAA 2011 LIDAR.
- F: GPS FILL IN CONTOURS IN AREA SOUTH OF SMALL WAREHOUSE.

3) UNDERGROUND UTILITIES SHOWN HEREON ARE FROM A DECEMBER 15, 2021 ALTA BY THIS OFFICE (AND HAVE NOT BEEN UPDATED). THEY WERE COMPILED FROM FIELD LOCATIONS OF STRUCTURES, CONTRACTOR PAINT MARKS, AND AVAILABLE RECORD INFORMATION ON FILE AT THE TOWN ENGINEERING OFFICES, TOWN D.P.W., MASS HIGHWAY DEPT. AND UTILITY COMPANIES. OTHER UNDERGROUND UTILITIES MAY EXIST. IT SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER AND THE CONTRACTOR TO VERIFY THE LOCATION, SIZE & ELEVATION OF ALL UTILITIES WITHIN THE AREA OF ANY FUTURE PROPOSED WORK AND TO CONTACT "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION, DEMOLITION OR CONSTRUCTION.

4) THE LOCATION OF UNDERGROUND STORAGE TANKS, IF ANY, ARE UNKNOWN.

5) THIS PLAN IS A COMPILATION OF SEVERAL TOPOGRAPHIC SURVEYS PREPARED AT VARIOUS ŚCALES, AS SUCH, SCALES OF SOME SYMBOLS ARE NOT CONSISTENT.

6) ELECTRIC EASEMENT CROSSING LOCUS IS DEPICTED APPROXIMATELY PER 2-19-15 ALTA PLAN PREPARED FOR CRE MANAGEMENT, LLC. AND PLAN BOOK 56, PLAN #2653.

7) INTENTIONALLY OMITTED

8) A TWO LOT DEFINITIVE SUBDIVISION PLAN WAS APPROVED FOR PREVIOUS OWNERS BUT NOT REFERENCED ON THE CURRENT DEED. THE COVER SHEET (ONLY) WAS RECORDED IN PLAN BOOK 428, PLAN 163 OF 1995 AT THE NORFOLK COUNTY REGISTRY OF DEEDS. THE LOTTING SHEETS, NOT RECORDED, ARE ON FILE AT THE FRANKLIN PLANNING BOARD. THE LOCATION OF THE "FINANCIAL PARK" CUL-DE-SAC IS SHOWN FROM SAID PLANS.

9) LOCATION OF IRRIGATION SYSTEM COMPONENTS NOT INCLUDED IN THIS SURVEY.

10) FEMA FLOOD ZONE LINES FOR "ZONE X-SHADED" ARE SHOWN APPROXIMATELY FROM MASS GIS.

11) THE 100 YEAR FLOOD PLAIN (FLOOD ZONE AE) WAS FIELD LOCATED ON LOT 4A AND PARTIALLY ONTO THE SOUTHERLY PORTION OF LOT 5 ON AUGUST 19, 2019. THE FLOOD ZONE LINE IS SHOWN PER FIELD LOCATION BETWEEN WETLAND FLAG J105 (SHEETS 4 & 5) AND MEAN ANNUAL HIGH WATER FLAG 215. ALL OTHER PORTIONS OF FLOOD ZONE AE LINES ARE SHOWN APPROXIMATELY PER INTERPOLATION OF THE NOAA LIDAR CONTOURS THAT ARE PART OF THIS COMPILATION PLAN AND ARE NOT FIELD LOCATED.

12) MEAN ANNUAL HIGH WATER (MAHW) HAS BEEN FIELD DELINEATED AT THE NORTHWEST CORNER OF LOT 5A AND SEVERAL HUNDRED FEET SOUTH OF THERE. ON LOT 4A, ALONG MINE BROOK AND THE PORTION OF DIX BROOK THAT HAS NOT BEEN FIELD DELINEATED, MAHW HAS BEEN APPROXIMATED BASED ON DIGITIZED CENTERLINE OF SAID BROOKS AND MAHW WIDTHS FROM USGS STREAMSTATS BANKFULL STATISTICS.

13) BVW (BORDERING VEGETATED WETLANDS) HAS NOT BEEN FLAGGED WEST OF THE DETENTION POND ON ABUTTING LOT 4A, BETWEEN DIX BROOK AND ROUGH WF-J85. THIS LINE WOULD NOT IMPACT THE 100' SETBACK LINE ON LOT 4A AS THE DETENTION POND BROADCASTS A 100' BUFFER FARTHER EAST AS DEPICTED.

14) OFF-SITE ACCESS EASEMENTS AND UTILITY EASEMENTS EXIST BUT ARE NOT SHOWN AS THEY ARE OUTSIDE THE SCOPE OF THIS SURVEY.

15) WATER LINE SHOWN HEREON FOR WELL PUMP IS COMPLIED FROM A SKETCH SUPPLIED BY HIGHPOINT ENGINEERING AND IS SHOWN APPROXIMATE ONLY. A WELL PUMP EXISTS ON SITE BUT HAS NOT BEEN LOCATED AS OF THE DATE OF THIS PLAN.

16) REVISED AND ADDITIONAL WETLAND FLAGS WERE FIELD LOCATED ON JUNE 29, 2023 BY THIS OFFICE AND ARE SHOWN HERE ON (SHEET EC-1) NEW FLAGS LOCATED ARE WF-114A, WF-114B, WF-114C, WF-114D, WF-B100, WF-B101, W-FB102, WF-B103, WF-BA200, WF-BA201B WF-BA202, WF-BA203 & WF-BA204. WETLAND FLAGS WF BA-103A, WF BA-102A, WF BA-101A, WF BA-100A, WF BA-200A, WF BA-201 & WF BA-202A WERE LOCATED ON JULY 17, 2023.

17) IN PARAGRAPH 1.2 OF DOCUMENT IN DEED BOOK 36923, PAGE 202 A 20'X20' SIGNAGE EASEMENT IS DESCRIBED BUT REFERENCES A SKETCH ON ITS EXHIBIT B THAT DEPICTS TWO STRAIGHT LINES AND A CURVE WITH NO MATH. A BEST GUESS OF INTENT IS DRAFTED HEREON.

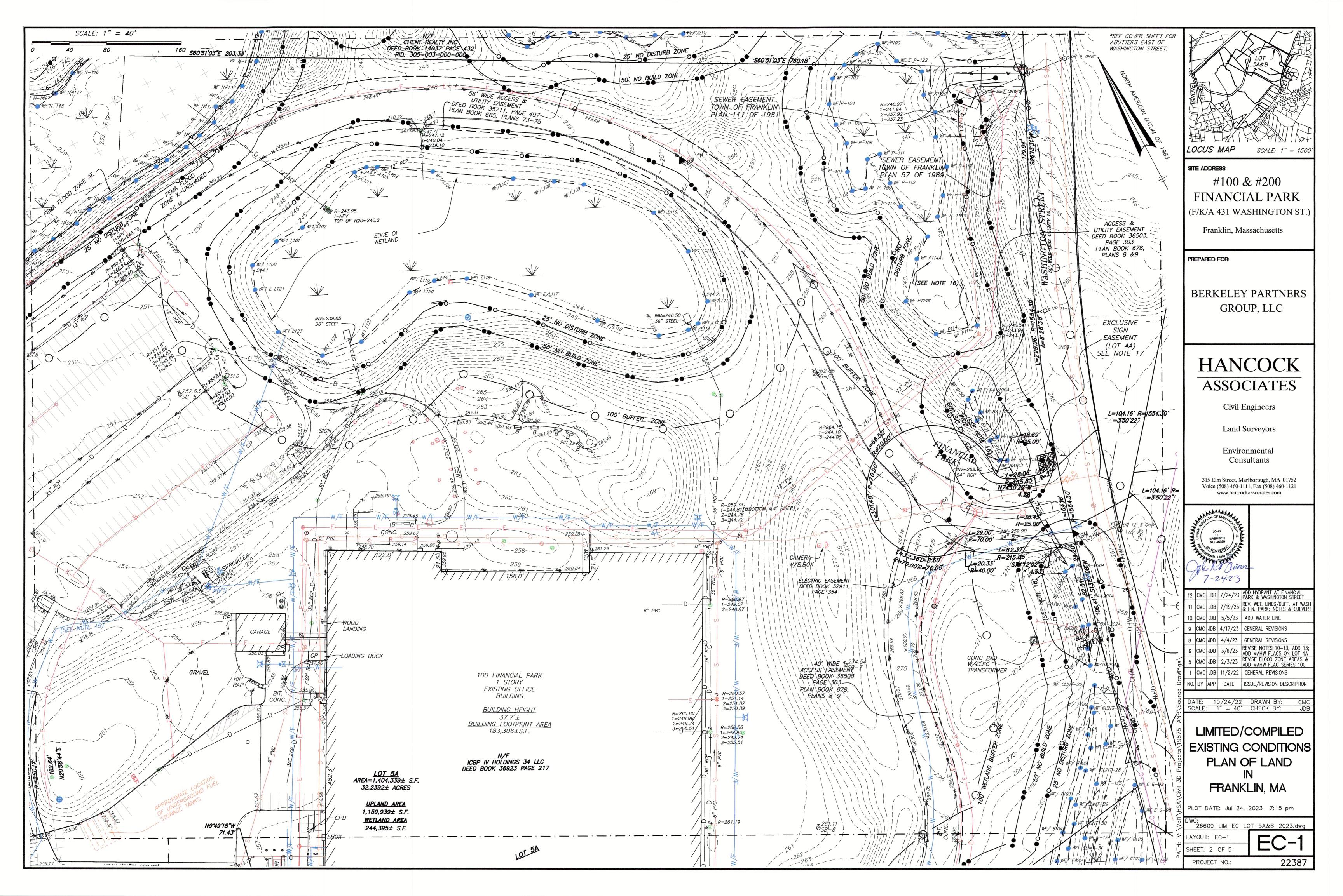
SHEET INDEX: COVER SHEET

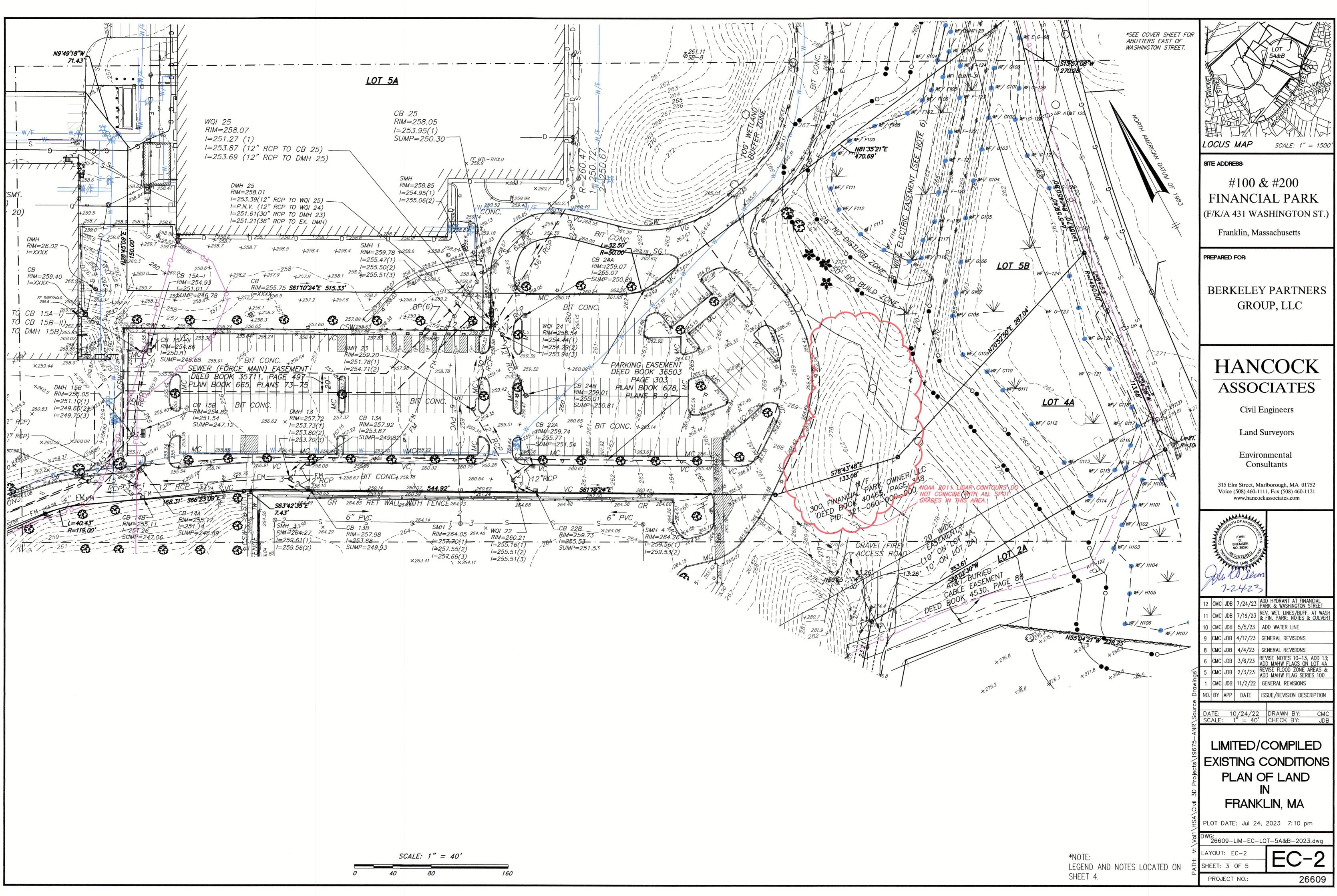
LIMITED/COMPILED EXISTING. ..EC-1 THRU EC-4 CONDITIONS PLANS

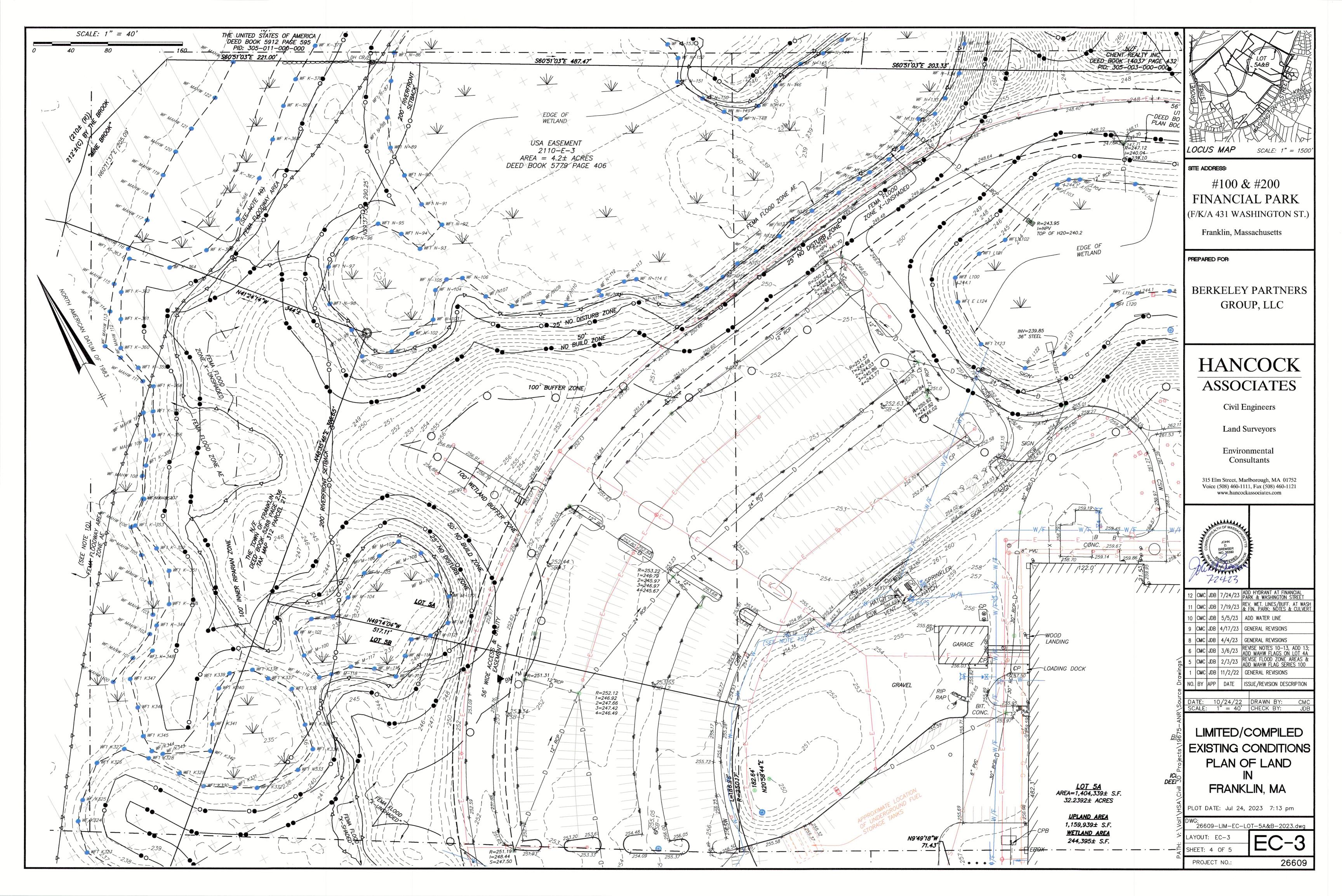
	ELEVATION BENCH MARKS DATUM: (SEE NOTE 1)	
NO.	DESCRIPTION	ELEV.
L	MAGNETIC NAIL IN PAVEMENT	266.93
М	MAGNETIC NAIL IN PAVEMENT	254.42
Ν	MAGNETIC NAIL IN PAVEMENT	251.92

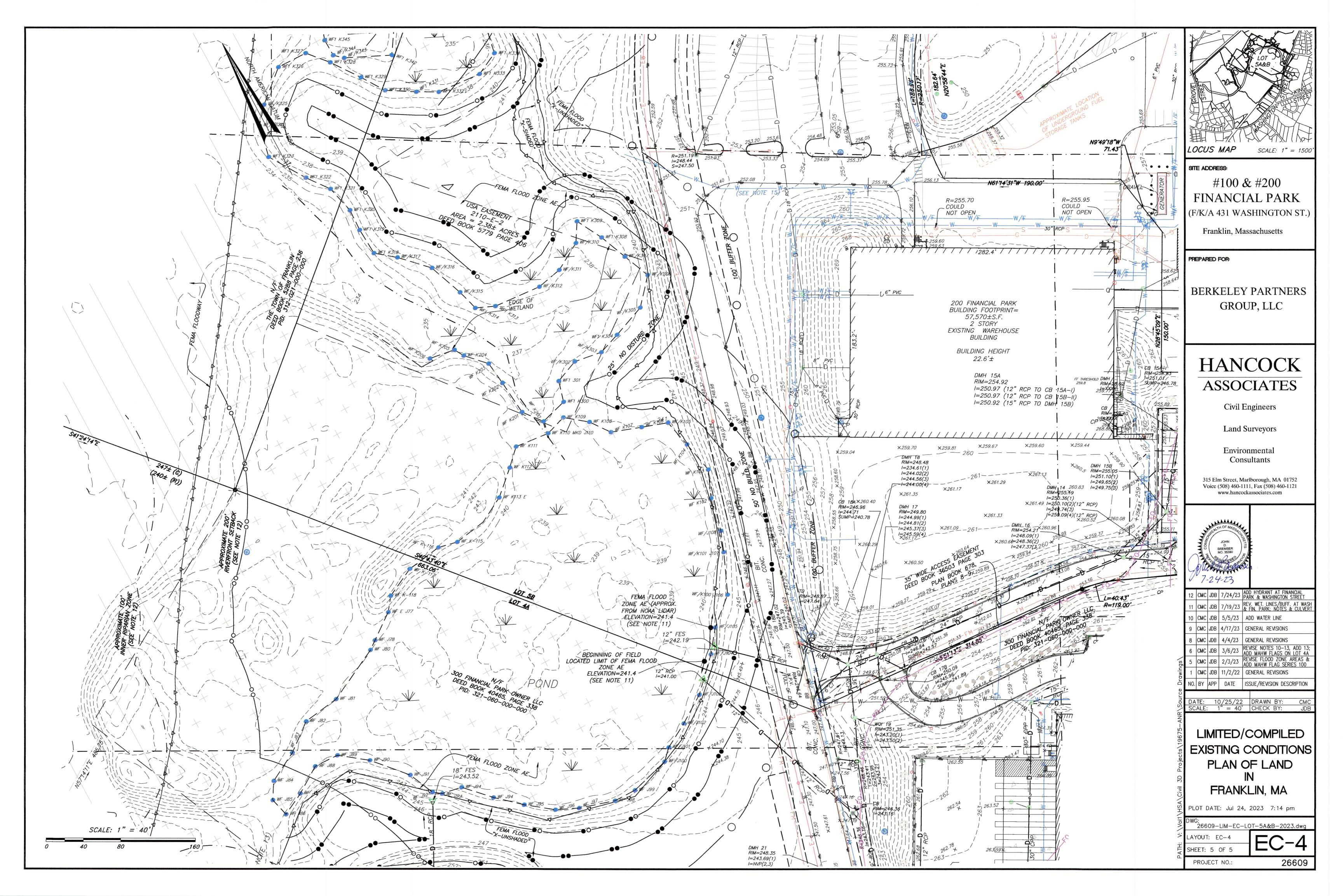
JOB# 26609

PAGE 1 OF 5









GENERAL NOTES

THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS FROM THOSE SHOWN ON THESE PLANS. ANY PROPOSED REVISIONS TO THE WORK, IF REQUIRED BY THESE SITE CONDITIONS, SHALL NOT BE UNDERTAKEN UNTIL REVIEWED AND APPROVED BY THE OWNER AND THE ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE ANY AND ALL SAFETY MEASURES NECESSARY TO PROTECT THE PUBLIC SAFETY DURING CONSTRUCTION. THESE SHALL INCLUDE SIGNS, BARRICADES, FENCES, POLICE OFFICERS, ETC. AS IS NECESSARY, OR AS DIRECTED BY THE PUBLIC AUTHORITIES AND THE OWNER. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.

THE EXISTING SITE CONDITIONS SHOWN ON THESE PLANS WERE DETERMINED BY A FIELD SURVEY AND COMPILATION OF PLANS OF RECORD. ANY VARIATIONS FROM THE CONDITIONS SHOWN ON THESE PLANS SHOULD BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE PROPOSED WORK.

UNLESS OTHERWISE SPECIFIED ON THE PLANS AND SPECIFICATIONS ALL SITE CONSTRUCTION MATERIALS AND METHODOLOGIES ARE TO CONFORM TO THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988 EDITION OR THE LATEST EDITION.

WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN THE STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE MUNICIPALITY INCLUDING BUT NOT LIMITED TO DEMOLITION, TRENCHING, AND WATER/SEWER/DRAIN CONNECTION PERMITS PRIOR TO CONSTRUCTION.

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

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

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

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

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

ALL WORK TO BE DONE WITHIN PUBLIC RIGHT-OF-WAYS SHALL CONFORM TO TOWN/CITY LOCAL STANDARD CONSTRUCTION REQUIREMENTS FOR THE INSTALLATION OF AND/OR REPAIR OF UNDERGROUND FACILITIES, EXCAVATIONS AND PAVING IN THE PUBLIC WAY.

IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL AND SHALL NOTIFY THE OWNER/ENGINEER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.

P:\Berkeley Partners\22051 Berkeley - Lot 5 Warehouse-Industrial Development, Franklin)\04 Design\Dwg\03 DD\22051 GN01.dwg

SEDIMENTATION/EROSION CONTROL NOTES

UNLESS DIRECTED OTHERWISE, ALL EXISTING TURF OR VEGETATED AREAS WITHIN THE PF LIMITS OF WORK FOR EXCAVATION, GRADING, OR IMPROVEMENT SHALL BE CLEA GRUBBED. WITHIN THE CLEARING AND GRUBBING AREA, REMOVE ALL TREES, SHRUBS AN UNLESS DESIGNATED OTHERWISE. CLEARING SHALL INCLUDE THE FELLING, CUTT OFF-SITE DISPOSAL OF ALL TREES, SHRUBS, STUMPS AND VEGETATIVE DEBRIS PL THROUGH THE CLEARING OPERATIONS.

ALL EROSION MITIGATION MEASURES SHALL BE IN PLACE PRIOR TO MAJOR CONSTRUCTION OR SOIL DISTURBANCE COMMENCING ON THE SITE.

THE LOCATION OF EROSION CONTROL BARRIERS SHOWN ON DRAWINGS ARE INTENDED TO BE MINIMUM REQUIREMENTS AND A GUIDE FOR THE PLACEMENT OF THESE BARRIERS. OTHER MEASURES MAY BE WARRANTED BASED UPON EXPERIENCE AT THE SITE. WHEN NO SEDIMENTATION CONTROL SYSTEM IS SHOWN ON THE DRAWING. THE CONTRACTOR SHALL BE REQUIRED TO ESTABLISH A SYSTEM TO PREVENT SILTATION OR POLLUTION OF ADJACENT PROPERTY. THE SYSTEMS SHOWN SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PLACING ADDITIONAL BARRIERS OR REPLACING BARRIERS AS REQUIRED BY SITE CONDITIONS. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT AND ADDITIONS TO THESE SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AS CONSTRUCTION PROGRESSES AND SEASONAL CONDITIONS DICTATE. MORE SILTATION CONTROL FACILITIES MAY BE REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS NEW CONDITIONS THAT MAY BE CREATED.

THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. ALL DEMOLITION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE TO A LEGAL DUMP SITE. ALL TRUCKS LEAVING THE SITE SHALL BE COVERED.

AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED FROM THE SITE. THE CONTRACTOR SHALL NOT REMOVE ANY SILTATION CONTROLS UNTIL AUTHORIZED (IN WRITING) BY THE OWNER OR OWNER'S REPRESENTATIVE.

PRIOR TO STARTING ANY OTHER WORK ON THE SITE. THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE EROSION CONTROL MEASURES ON AN AS NECESSARY BASIS, SUCH THAT EXCESSIVE SOIL EROSION DOES NOT OCCUR. MEASURES SHALL INCLUDE SEDIMENT BARRIERS AROUND DRAINAGE INLETS, MULCHING, AND PLANTING OF DISTURBED AREAS

AN EROSION CONTROL BARRIER IS TO BE INSTALLED AT THE PROPOSED DOWN GRADIENT TOE OF SLOPE AT ALL LOCATIONS WHERE EARTHWORK IS PROPOSED.

DURING CONSTRUCTION THE EROSION CONTROL MEASURES SHALL BE INSPECTED ONCE PER WEEK AND WITHIN 24 HOURS OF ANY STORM EVENT GENERATING MORE THAN 1/2" OF RAINFALL. THE EROSION CONTROL MEASURES SHALL BE CLEANED REGULARLY AND ADJUSTED IF NECESSARY. TO ENSURE THAT NO SILT OR DEBRIS LEAVES THE SITE.

ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS. ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE SWEPT AT THE END OF EACH WORKING DAY.

EXPOSED SLOPES GREATER THAN 50' IN LENGTH ARE TO HAVE CHECK DAMS, TERRACES AND/OR MULCHING INSTALLED IN ORDER TO REDUCE EROSION AND TO ENHANCE SURFACE STABILIZATION. IF CHECK DAMS ARE USED, THEY SHOULD BE PLACED APPROXIMATELY 50' O/C PARALLEL WITH THE FACE OF THE SLOPE.

UNTIL DRIVEWAYS ARE PAVED, TEMPORARY DIKES ARE TO BE STAKED ACROSS DRIVEWAYS AS REQUIRED TO DIRECT RUNOFF WATER TO CATCH BASINS. SILT SCREENS ARE TO BE INSTALLED AT CATCH BASIN GRATES (SEE DETAIL) AND SUMPS OF BASINS ARE TO BE CLEANED AS NECESSARY TO PREVENT SILT FROM ENTERING THE SUBSURFACE DRAINAGE SYSTEM.

AFTER INSTALLATION OF EACH DRAINAGE INLET A SEDIMENT BARRIER SHALL BE INSTALLED AROUND THE INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.

AT THE END OF CONSTRUCTION ALL DRAINAGE STRUCTURES ARE TO BE CLEANED OF SILT, STONES AND OTHER DEBRIS. EROSION CONTROL BARRIERS ARE TO BE REMOVED AND DISPOSED OF IN ACCORDANCE TO LOCAL REQUIREMENTS.

CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS. ANY DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER

ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT LEFT IN A NATURAL CONDITION SHALL RECEIVE SIX (6) INCHES OF LOAM AND SEED

AREAS NOT DISTURBED BY CONSTRUCTION SHALL BE LEFT NATURAL. CARE SHALL BE TAKEN TO PRESERVE EXISTING TREES. GROUND COVER AND OTHER NATURAL FEATURES WHENEVER POSSIBLE.

AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL STATE AT THE CONTRACTOR'S EXPENSE

CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.

ALL STOCKPILE AREAS SHALL BE LOCATED WITHIN LIMIT OF WORK LINE AND STABILIZED. ALL STOCKPILE AREAS SHALL BE LOCATED WITHIN LIMIT OF WORK LINE AND STABILIZED TO PREVENT FROSION

ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFF-SITE.

PROVIDE CRIBBING AS NECESSARY TO PROTECT EXISTING UTILITY LINES DURING CONSTRUCTION.

SITE ELEMENTS TO REMAIN MUST BE PROTECTED FOR DURATION OF PROJECT.

ALL TOPSOIL ENCOUNTERED WITHIN WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BE DISPOSED OF ON-SITE AS DIRECTED BY OWNER. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.

ALL AREAS IDENTIFIED AS CRITICAL AREA SEEDING SHALL BE STABILIZED DURING CONSTRUCTION BY SEEDING WITH ANNUAL RYE GRASS AT THE RATE OF FORTY (40) LBS/ACRE.

DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE.

EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING ENVIRONMENTALLY SENSITIVE OR JURISDICTIONAL RESOURCE AREAS.

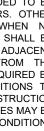
ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15 SHALL BE SEEDED OR PROTECTED BY THAT DATE.

LOAMING AND SEEDING OR MULCHING OF NON-PAVEMENT AREAS SHALL TAKE PLACE AS SOON AS PRACTICABLE.

ALL SLOPES WITH SURFACE GRADES STEEPER THAN 3:1 SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS.

COIR FIBER ROLLS. HAYBALES. SILT FENCE OR OTHER SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.

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SITE LAYOUT AND MATERIALS NOTES
CONTRACTOR SHALL REPORT SIGNIFICANT CONFLICTS TO THE OWNER OR OWNER'S REPRESENTATIVE FOR RESOLUTION.
ACCESSIBLE ROUTES, PARKING SPACES, RAMPS SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).
TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
CROSSWALKS SHALL BE STRIPED WITH 12" WIDE LINES OF WHITE THERMO PLASTIC SPACED 3' ON CENTER. STOP LINES SHALL BE STRIPED WITH 12" WIDE LINES OF WHITE THERMO PLASTIC. ALL OTHER STRIPING SHALL BE 4" WIDE LINES OF THERMO PLASTIC IN COLORS INDICATED HEREON.
PAVEMENT MARKINGS SHALL CONFORM TO SECTION M7.01.05 OF THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES".
ALL NEW CURBS SHALL BE VERTICAL GRANITE CURBING (VGC) WITH 6" REVEAL UNLESS OTHERWISE INDICATED HEREON. INSTALL 6' LONG TRANSITION CURB STONES AT ALL TRANSITIONS FROM VERTICAL TO FLUSH GRANITE.
EXISTING CURBS TO REMAIN AS SHOWN HEREON ARE ASSUMED TO BE IN SATISFACTORY CONDITION BUT ARE TO BE PARGED OR REPLACED IN KIND IN LOCATIONS OF DAMAGE.
INSTALL EXPANSION AND CONTROL JOINTS IN SIDEWALKS AT INTERVALS OF 5 FEET AND 25 FEET, RESPECTIVELY. PROVIDE BROOM FINISH IN TRANSVERSE DIRECTION ON ALL WALKS.
SIDEWALK WIDTHS INDICATED HEREON ARE MEASURED FROM BACK OF CURB TO BACK IF SIDEWALK. 6" WIDTH OF CURBS NOT INCLUDED.
ALL CURB RADIUS DIMENSIONS SHOWN HEREON ARE MEASURED ALONG FACE OF CURB.
REFER TO LAYOUT PLAN FOR EXTENTS OF MILL AND OVERLAY AND FULL DEPTH PAVEMENT CONSTRUCTION AND PATCHING WHERE APPLICABLE.
ALL WORK CONDUCTED WITHIN PUBLIC RIGHT-OF-WAYS SHALL CONFORM TO THE LOCAL REQUIREMENTS AND SPECIFICATIONS.
ALL ACCESSIBLE ROUTES, RAMPS AND PARKING SPACES TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES AND THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB).
THE FOLLOWING LAYOUT CRITERIA SHALL CONTROL UNLESS OTHERWISE NOTED ON THE PLAN:
DIMENSIONS FROM BUILDING ARE FROM FACE OF BUILDING.
DIMENSIONS ARE TO FACE OF CURB AT GUTTER LINE.
DIMENSIONS ARE TO THE CENTER OF PAVEMENT MARKINGS.
ALL LINES AND DIMENSIONS AND TIES TO PROPERTY LINES ARE PERPENDICULAR TO THE PROPERTY LINE UNLESS OTHERWISE NOTED.
COORDINATE THE LOCATION OF ALL SITE LIGHT STANDARDS WITH IMPROVEMENTS SHOWN ON THESE DRAWINGS.
CONTRACTOR SHALL FURNISH AND SET ALL LINES AND GRADES REQUIRED AND PROTECT ALL PERMANENT BENCHMARKS OR MONUMENTS. DAMAGED MONUMENTS SHALL BE REPLACED BY A LICENSED SURVEYOR AT NO COST TO THE OWNER.
ALL BITUMINOUS CONCRETE PAVING SHALL COMPLY WITH THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988 EDITION AS AMENDED. THE CONTRACTOR SHALL SUBMIT A JOB MIX FORMULA DEMONSTRATING COMPLIANCE WITH THESE SPECIFICATIONS. THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A CERTIFICATE OF COMPLIANCE SUPPLIED BY THE PAVING CONTRACTOR.
BITUMINOUS CONCRETE PAVEMENT: CLASS I, TYPE I-1 CONFORMING TO THE STANDARD SPECIFICATIONS, SECTIONS 420 AND 460, AND M3.11.03 FOR BINDER COURSE AND TOP COURSE JOB MIX FORMULAS.

ALL CONCRETE WORK SHALL COMPLY WITH ACI301, "SPECIFICATION FOR STRUCTURAL CONCRETE," AND ACI 316R, UNLESS MODIFIED BY THE CONTRACT DOCUMENTS. COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR FABRICATING, PLACING, AND SUPPORTING REINFORCEMENT. COMPLY WITH ACI 306.1 FOR COLD WEATHER PROTECTION, AND FOLLOW RECOMMENDATIONS IN ACI 350R FOR HOT WEATHER PROTECTION DURING CURING. COMPLY WITH ACI 304 "GUIDE FOR

SAW-CUT EXISTING PAVEMENT WHERE NEW BITUMINOUS CONCRETE PAVEMENT IS TO COME IN CONTACT. PRIME COAT THE CUT EDGE PRIOR TO PLACEMENT.

MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE."

CONTRACTOR(S) SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND ALL SITE CONDITIONS PRIOR TO CONSTRUCTION.

OUT OF FUNCTION OR SCREENED IMAGES REPRESENT EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPACTED BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED, ABANDONED AND/OR CAPPED OR DEMOLISHED AS REQUIRED.

GRADING NOTES

THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCRE IMMEDIATELY TO THE OWNER OR HIS REPRESENTATIVE.

ALL STUMPS, PEAT, CONSTRUCTION DEBRIS AND OTHER DELETERIOUS MATERIALS ON THE THE TIME OF CONSTRUCTION ARE TO BE REMOVED FROM THE SITE TO AN APPROVED LAND SUCH MATERIALS ARE TO BE BURIED OR OTHERWISE DISPOSED OF ON THE SITE. MATER BACKFILL SHALL NOT INCLUDE UNSUITABLE MATERIAL SUCH AS PEAT, TRASH, STUMPS, DE HAZARDOUS WASTE.

FILL MATERIAL SHALL BE AS SPECIFIED BY THE ARCHITECT/ENGINEER AND SELECTED FROM EXCAVATION MATERIAL WHERE POSSIBLE.

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

CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUN STRUCTURES AND PLANTING BEDS.

THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUBGRADE ELEVA DRAIN PROPERLY WITHOUT PUDDLING. SPECIFICALLY, ALLOW WATER TO ESCAPE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF THE FINISH SUBGRADE SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE AS REQUIRED.

PITCH EVENLY BETWEEN SPOT GRADES. GRADE ALL AREAS TO DRAIN. ALL PAVED ARE. PITCH TO DRAIN AT A MINIMUM OF 1/8" PER FOOT UNLESS OTHERWISE SPECIFIE DISCREPANCIES NOT ALLOWING THIS MINIMUM PITCH SHALL BE REPORTED TO THE OWNE REPRESENTATIVE PRIOR TO CONTINUING WORK.

ACCESSIBLE CURB RAMPS, RAMP, LANDINGS, WALKWAYS, CROSSWALKS, PATIOS/PLA PARKING AREAS SHALL BE PER THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (A THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY REQUIREMENTS. WALKY CROSSWALK ALONG ACCESSIBLE ROUTE(S) SHALL HAVE 5% MAX. LONGITUDINAL SLOPE AND CROSS SLOPE. LANDINGS, PATIOS/PLAZAS, AND ACCESSIBLE PARKING SPACES SHALL BE 2' ALL DIRECTIONS. RAMPS SHALL BE 8.3% MAXIMUM.

A GEOTECHNICAL ENGINEER MAY BE RETAINED BY THE OWNER TO OBSERVE PERFORM WORK, FOR CONFORMANCE WITH THESE CONTRACT DOCUMENTS, IN CONNECTIO EXCAVATING, TRENCHING, FILLING, BACKFILLING AND GRADING, AND TO PERFORM ASS FIELD TESTS.

DUBING THE PROGRESS OF THE WORK THE CONTRACTOR MAY BE REQUIRED TO F ADDITIONAL TEST PITS FOR THE PURPOSE OF LOCATING UNDERGROUND UTILITIES OR STRU AS AN AID IN ESTABLISHING THE PRECISE LOCATION OF NEW WORK. THIS WORK PERFORMED AT NO ADDITIONAL COST TO THE OWNER. TEST PITS SHALL BE BACKFILLED, AS THE DESIRED INFORMATION HAS BEEN OBTAINED.

PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER FACILITIES FROM CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER I CREATED BY CONTRACTOR OPERATIONS.

STOCKPILED TOPSOIL SHALL BE PLACED NEATLY IN AN AREA INDICATED BY THE OWNER.

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

FILL DEPRESSIONS CAUSED BY TEST PITS AND CLEARING AND GRUBBING OPERATIO SATISFACTORY SOIL MATERIAL UNLESS FURTHER EXCAVATION OR EARTHWORK IS INDICATED

THE CONTRACTOR SHALL PREVENT SURFACE WATER AND SUBSURFACE OR GROUNDWAT FLOWING INTO EXCAVATIONS OR EARTHWORK AREAS WHICH WOULD CAUSE FLOODING PROJECT SITE AND SURROUNDING AREA, OR SOFTENING OR LOOSENING OF THE EXCAVATION OR FARTHWORK SUB-GRADES

THE CONTRACTOR SHALL PROVIDE, INSTALL, OPERATE, MAINTAIN AND REMOVE ADEQU SATISFACTORY DEWATERING SYSTEMS AND DRAINAGE OF EXCAVATIONS TO PERMIT CONST TO PROCEED "IN THE DRY". THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY ADEQUACY OF THE METHODS, MATERIALS AND EQUIPMENT EMPLOYED. THE CONTRACTO BEAR THE FULL COST OF PROVIDING ALL NECESSARY DEWATERING.

THE CONTRACTOR SHALL PROHIBIT SEEPAGE, GROUNDWATER FLOW OR SURFACE INFIL AND RUNOFF FROM UNDERMINING OR OTHERWISE DAMAGING ADJACENT STRUCTU UTILITIES.

PAVING, CONCRETE WORK AND BASE COURSE PREPARATION SHALL BE DONE ONL' EXCAVATION AND CONSTRUCTION WORK WHICH MIGHT INJURE THEM HAS BEEN COM DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPAIRED BEFORE ACCEPTANCE.

PAVEMENT OR BASE MATERIALS SHALL NOT BE PLACED ON A MUDDY OR FROZEN SUBGRADE

ESTABLISHMENT OF GRADES, GRADE CONTROL, AND CONFORMANCE TO REQUIRED TO FRANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

PROTECT GRADED, FINISHED OR PAVED AREAS FROM DAMAGE AND KEEP THEM FREE OF TR DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS. REPAIR AND RE-ESTABLISH GR SETTLED, ERODED AND RUTTED AREAS.

PAVEMENT, LAWN OR PLANTING AREAS EXCAVATED DURING UTILITY CONSTRUCTION, WHE THE SITE OR ADJACENT PROPERTIES, SHALL BE RESTORED AND MATCHED WITH EXACTLY MATERIALS AND TOLERANCES AS PRIOR TO DISRUPTION. AT NO ADDITIONAL COST TO THE OR ADJACENT PROPERTY OWNERS.

DRAINAGE NOTES

ALL STORM DRAINS SHALL BE REINFORCD CONCRETE PIPE (RCP) PIPE UNLESS OTHERWIS INSTALLATION OF ALL UTILITY STRUCTURES SHALL CONFORM TO MANUFAC RECOMMENDATION.

REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C-76, CLASS III, REIN CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C-76, CLASS III, WALL B WITH JO GASKETS IN CONFORMANCE WITH ASTM C 443.

ALL HIGH-DENSITY POLYETHYLENE (HPDE) PIPES SHALL HAVE MINIMUM 2' COVER.

MANHOLES SHALL BE 48-INCH DIAMETER (UNLESS OTHERWISE SPECIFIED). CAST-IN-PLACI SHALL BE USED WHERE MANHOLES ARE CONSTRUCTED OVER EXISTING PIPES.

FRAMES AND COVERS FOR DRAINAGE STRUCTURES SHALL PROVIDE A 24-INCH MINIMU OPENING AND SHALL BE LEBARON TYPE LK110 OR APPROVED EQUAL. DRAINAGE ST COVERS SHALL HAVE THE WORD "DRAIN" CENTERED ON THE COVER IN 3-INCH HIGH LETTERS

SINGLE CATCHBASIN FRAMES AND GRATES SHALL BE LEBARON TYPE LF 248-2 OR AS CATCHBASIN FRAMES AND GRATES SHALL BE LEBARON TYPE LF 248-2 OR AS REQUIRED BY FRANKLIN DPW.

DOUBLE CATCH BASIN FRAMES SHALL BE LEBARON ONE-PIECE LV2448-1 FRAMES OR DOUBL BASIN FRAMES SHALL BE LEBARON ONE-PIECE LV2448-1 FRAMES OR APPROVED EQU DOUBLE CATCH BASIN GRATES, USE TWO LEBARON TYPE LF 248-2 OR APPROVED EQUAL.

FRAMES, GRATES AND COVERS SHALL BE SET FIRM AND TRUE TO GRADE, ADJUST FOR GRATES AND COVERS SHALL BE SET FIRM AND TRUE TO GRADE, ADJUST FOR GRADE WIT MASONRY.

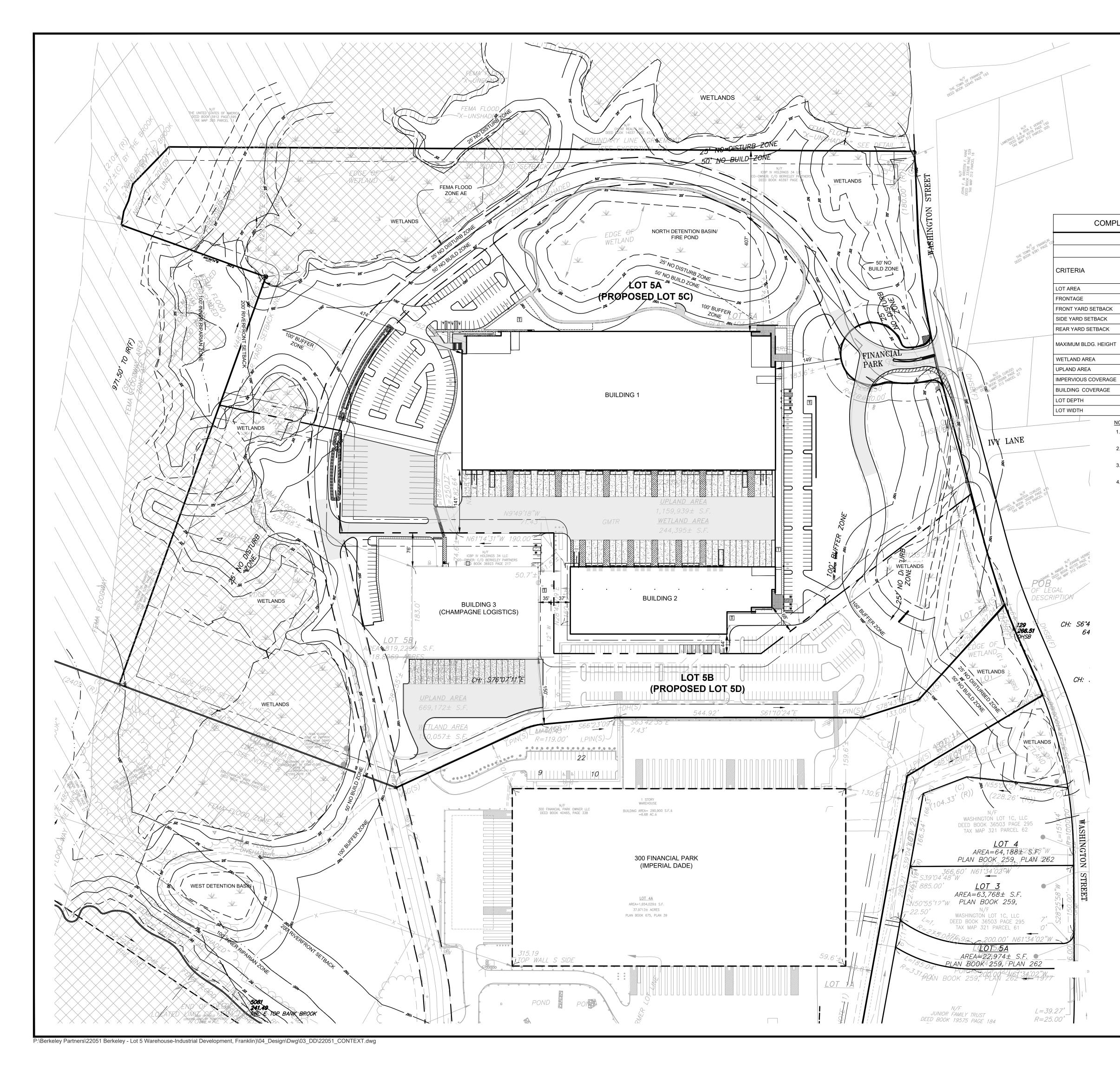
ALL ON-SITE DRAIN LINES SHALL BE SMOOTH INTERIOR WALLED CORRUGATED ALL ON-SIT LINES SHALL BE SMOOTH INTERIOR WALLED CORRUGATED POLYETHYLENE PIPE UNLESS OT NOTED.

PRE-CAST CONCRETE STRUCTURES INCLUDING TANKS, BARREL SECTIONS, CATCHBAS BASES SHALL CONFORM TO ASTM C478 AND AASHTO HS20-44. PLACEMENT SHAL ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. ALL PRE-CAST STRUCTURES IN JOINTS, SEALS, OPENINGS, ETC. MUST BE WATERTIGHT.

AT THE END OF CONSTRUCTION, AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZ CONTRACTOR SHALL CLEAN THE SUMPS OF ALL CATCH BASINS AND THE INVERTS OF A MANHOLES.

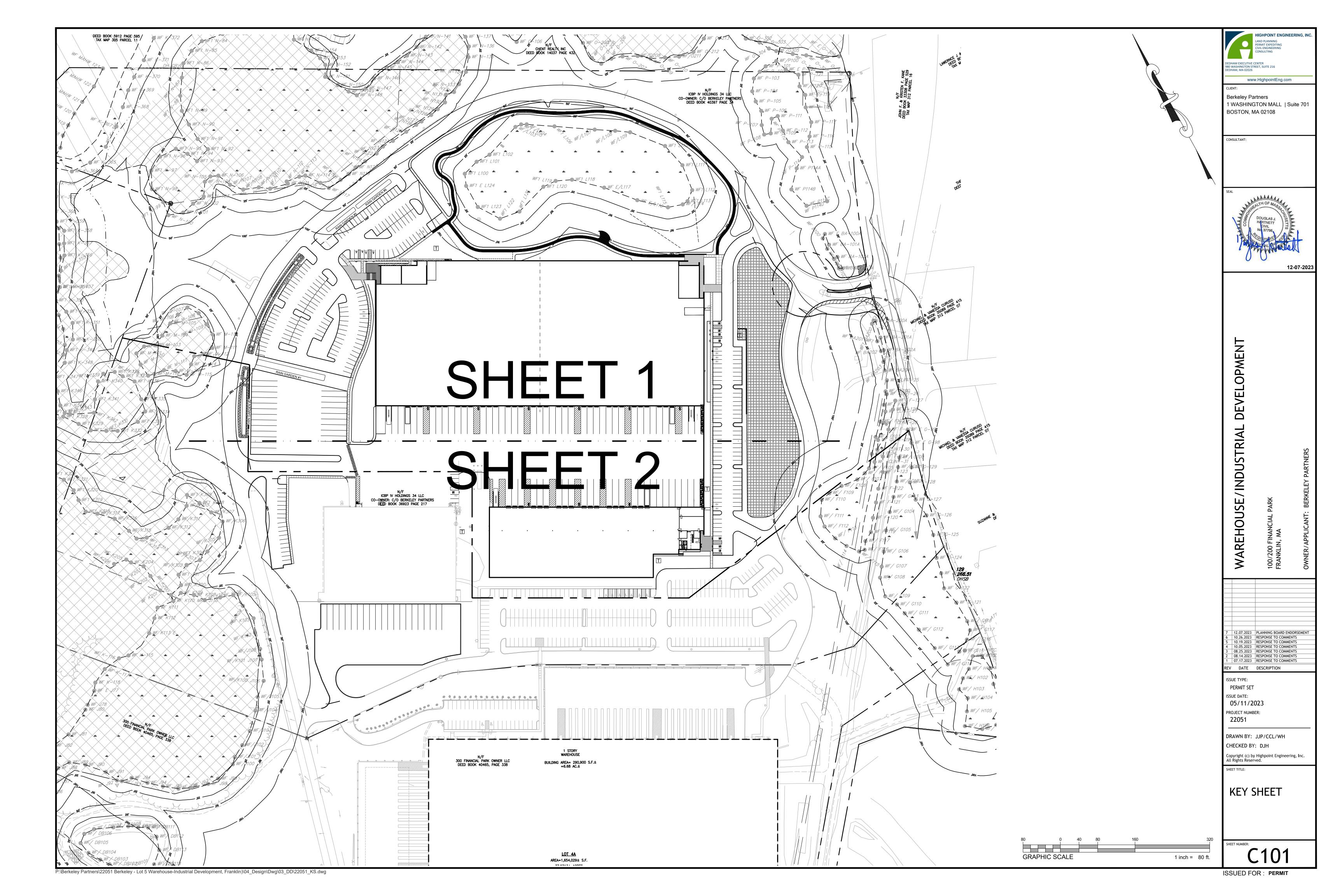
ALL DRAIN LINES SHOWN SHALL BE 12" DIAMETER UNLESS OTHERWISE NOTED.

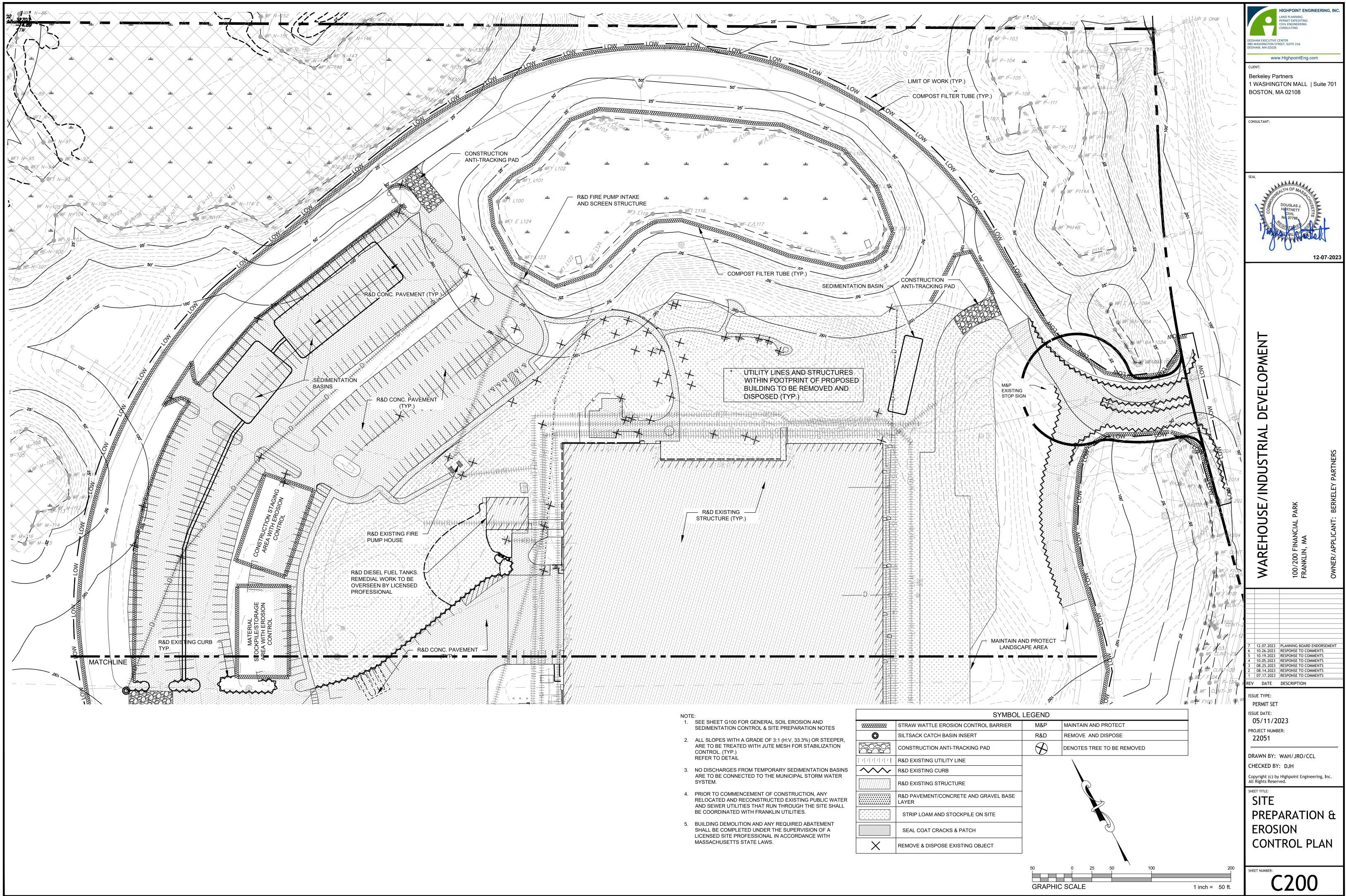
	UTILITY NOTES		HIGHPOINT ENGINE	Ering, inc
EPANCIES	THE LOCATION OF UNDERGROUND UTILITIES AS REPRESENTED ON THESE PLANS IS BASED UPON EXISTING CONDITIONS PLANS AND POTENTIALLY INFORMATION PROVIDED BY THE LOCAL MUNICIPALITIES. ADDITIONAL INFORMATION MAY BE SUPPLEMENTED BY FIELD INVESTIGATIONS WHEREVER POSSIBLE. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR	DEDHAM EXECUTIVE 980 WASHINGTON S DEDHAM, MA 02026	FREET, SUITE 216	
E SITE AT DFILL. NO RIAL FOR EBRIS OR	THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL CONTACT DIG SAFE AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. DIG SAFE TELEPHONE NUMBER IS 1-888-DIG-SAVE.	CLIENT:	w.HighpointEng.com	
I ON-SITE	UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE AND ASSUMED.	Berkeley Pa 1 WASHIN BOSTON,	GTON MALL S	uite 701
TON, THE E. BLEND	ALL PVC SANITARY SEWER SHALL BE SDR 35 WITH RUBBER RING JOINTS. REFER TO PLUMBING PLANS FOR EXACT SIZE AND LOCATION OF SANITARY CONNECTIONS.			
, GRADES	THE LOCAL MUNICIPAL WATER AND FIRE DEPARTMENTS SHALL BE NOTIFIED PRIOR TO THE START OF	CONSULTANT:		
DATIONS,	ANY WORK ON THE WATER SYSTEM. THE PROPOSED WATER MAIN IS TO BE CL 52 CLDI. ALL FITTINGS, HYDRANTS, VALVES, ETC., USED ON			
TIONS TO WHERE AND/OR	THE SITE ARE TO BE IN ACCORDANCE WITH THE LOCAL UNCIAL WATER DEPARTMENT SPECIFICATIONS.			
AS MUST	HYDRANTS AND MINIMUM SIZING OF WATER PIPES SHALL BE SUBJECT TO THE APPROVAL OF THE (TOWN/CITY) FIRE CHIEF.	SEAL	LAAAA.	
D. ANY R OR HIS	THE CONTRACTOR SHALL NOTIFY THE LOCAL MUNICIPAL DEPARTMENT OF PUBLIC WORKS AT LEAST 48 HOURS IN ADVANCE OF ANY REQUIRED INSPECTIONS.	A PART	EALTH OF MASS	
ZAS AND AAB) AND	UNDERGROUND INFRASTRUCTURE LOCATED IN THE PUBLIC WAY SHALL BE SUBJECT TO THE APPROVAL OF THE LOCAL MUNICIPAL DEPARTMENT OF PUBLIC WORKS.	COM	DOUGLAS J. HARTNETT CIVIL No 37796	
NAY AND D 2% MAX % MAX IN	NO LEDGE, BOULDERS, OR OTHER UNYIELDING MATERIALS SHALL BE LEFT WITHIN 6" OF THE WATER AND SEWER IN THE TRENCH, NOR ARE THEY TO BE USED FOR BACKFILL FOR THE FIRST 12" ABOVE THE PIPES.	Par	the state	仗
IANCE OF DN WITH SOCIATED	THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO, CROSSING OR EXTENDING THEM. IF THE NEW WORK POSES A CONFLICT WITH EXISTING UTILITIES, THE ENGINEER IS TO BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING. EXCAVATION SHALL BE TO THE LINES AND ELEVATIONS AS SHOWN ON THE PLANS.	0	12	2-07-202
XCAVATE UCTURES S TO BE AS SOON	ALL MATERIALS FOR INSTALLATION OF WATER, SEWER, DRAIN, GAS, DATA/TELECOM. AND ELECTRICITY SHALL BE IN ACCORDANCE WITH LOCAL STATE AND UTILITY COMPANY STANDARDS AND REGULATIONS AS THEY APPLY.			
DAMAGE HAZARDS	ALL BENDS, TEES, VALVES, AND HYDRANTS ARE TO BE SECURED BY MEANS OF THREADED TIE RODS.			
	THREE CUBIC FEET OF CRUSHED STONE IS TO BE PLACED AROUND THE DRAIN HOLE IN ALL HYDRANTS. HYDRANTS ARE TO CONFORM TO THE (TOWN/CITY) OF (TOWN/CITY) STANDARD SPECIFICATIONS.	L L		
ILY UPON	UNLESS OTHERWISE NOTED ALL UTILITY, TRENCHES ARE TO BE BACKFILLED WITH BANK RUN GRAVEL. NO STONES GREATER THAN 3" IN DIAMETER ARE TO BE USED WITHIN 12" OF THE PIPES. THE TRENCHES, WHEN UNDER PROPOSED PAVED AREAS, ARE TO BE MECHANICALLY COMPACTED IN 12" LIFTS.	OPMEN		
DNS WITH ED.	NO LEDGE, BOULDERS OR OTHER UNYIELDING MATERIALS ARE TO BE LEFT WITHIN 6" OF THE WATER MAIN IN THE TRENCH NOR ARE THEY TO BE USED FOR BACKFILL IN THE TRENCH.			
ER FROM GOF THE SOIL AT	THE SITE CONTRACTOR IS TO INSTALL A GAS SERVICE IN THE APPROXIMATE LOCATION SHOWN ON THE PLANS. THE SIZE AND EXACT LOCATION OF THE SERVICE IS TO BE DETERMINED AND COORDINATED WITH THE PLUMBING PLANS AND ALL EARTHEN PERIMETER SIDE SLOPES THAT ARE	DEVEI		
IATE AND TRUCTION FOR THE DR SHALL	GRADED AND ARE NOT SCHEDULED FOR PERMANENT STABILIZATION WITHIN 30 DAYS OF COMPLETION ARE TO BE COVERED WITH HAY OR WOOD CHIP MULCH, BIODEGRADABLE EROSION CONTROL FABRIC, OR HYDROSEEDED WITH A TEMPORARY GRASS MIXTURE IF WEATHER CONDITIONS WILL BE CONDUCIVE TO GERMINATION OF THE SEED.	RIAL D		
LTRATION RES AND	THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER AND ARCHITECT FOR RESOLUTION.	INDUSTF		PARTNERS
Y AFTER MPLETED. F	BEFORE COMMENCING SITE WORK IN ANY AREA, CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-888-DIG-SAFE, 811 OR WWW.DIGSAFE.COM 72 WORKING HOURS IN ADVANCE TO ACCURATELY LOCATE UNDERGROUND UTILITIES. IN ADDITION, CONTRACTOR SHALL CONTACT OTHER MUNICIPAL OFFICIALS SUCH AS WATER AND SEWER IF APPLICABLE.	E/IND	PARK	ERKELEY
) GRADE	ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE PAVEMENT FINISH GRADE UNLESS OTHERWISE NOTED. RIM ELEVATIONS OF DRAINAGE STRUCTURES AND MANHOLES ARE APPROXIMATE.	WAREHOUS		ICANT: B
RASH AND RADES IN	CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION AT NO COST TO OWNER. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE.	AREF	100/200 FINANCIAL FRANKLIN, MA	OWNER/APPLICANT:
ether on The Same E owner,	EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.	>	100/ FRAI	0 Mo
e noted. Cturer's	THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE.			
NFORCED INTS AND	PROVIDE UNDERGROUND ELECTRIC CONDUIT FOR SITE LIGHTS AS APPROPRIATE. ENSURE ALL EXISTING (TO REMAIN) AND PROPOSED MANHOLE COVERS PROPERLY IDENTIFY UTILITY			
	SERVED. UNLESS OTHERWISE INDICATED, ABANDONED EXISTING UTILITY LINES SHALL BE CAPPED AND ABANDONED IN PLACE UNLESS THEY CONFLICT WITH PROPOSED IMPROVEMENTS. CAP REMAINING		PLANNING BOARD END RESPONSE TO COMMEI RESPONSE TO COMMEI RESPONSE TO COMMEI RESPONSE TO COMMEI	NTS NTS NTS
CE BASES	PORTIONS WHERE PARTIALLY REMOVED.	2 08.14.2023 1 07.17.2023 REV DATE		
M CLEAR RUCTURE	THE CONTRACTOR SHALL COLLECT AND DISPOSE OF WATER FROM ALL SYSTEMS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS AND OBTAIN ALL	ISSUE TYPE: PERMIT SE	-	
S. S SINGLE TOWN OF	ANY WATER PUMPED FROM EXCAVATIONS WILL BE CONVEYED BY HOSE TO AN UPLAND AREA AND	ISSUE DATE: 05/11/2		
LE CATCH AL. FOR	DISCHARGED INTO HAYBALE CORRALS OR SEDIMENTATION BAGS.	project num 22051	BER:	
FRAMES, TH BRICK		DRAWN BY: CHECKED B		ng Inc
TE DRAIN HERWISE		SHEET TITLE:		
SINS AND L BE IN ICLUDING		GENI SHEE	ERAL NO	TES
ZED, THE LL DRAIN				
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PLIA		ZC	' - BUILDING AND DNING DISTRICT: DISTRICT: WATE	INDUSTRIAL (I)		ENTS	SEAL	ALTH OF MASS	
			EXISTING LOTS	LOT 5A (PROPOSED LOT	LOT 5B		COMINO	DOUGLAS J.	
		UIRED	5A / 5B	` 5C)	(PROPOSED LOT 5D)	COMPLIANCE		NG 37796	
		00 SF 5 FT	32.24 / 18.81 ± AC 1219 / 260 ± FT	34.12 +/- AC 890 ± FT	16.92 +/- AC 260 ± FT	YES	1/201	A grade	ET.
) FT	183.6 / >40 FT	149 FT	>40 FT	YES	0	U	07.0005
) FT) FT	50.8 / 50.7 FT 752.3 / 529.3 FT	37 FT 474 FT	35 FT 529 FT	YES	│ 	12	-07-2023
Т		ORIES	1 / 2 STORIES 24 / 40 FT	≤ 2 STORIES 40 FT	≤ 2 STORIES 40 FT	YES			
			250,998 / 139,809 SF	250,998 SF	139,809 SF				
E		 0%	1,153,336 / 679,420 SF 31% / 69%	1,235,466 SF 52%	597,302 SF 45%	YES			
		0%	16% / 9%	23%	10%	YES			
		0 FT .5 FT	>200 FT >157.5 FT	>200 FT >157.5 FT	>200 FT >157.5 FT	YES			
U 4. E 5	IPLAND AR XISTING LO D, RESPE	EA AS DEFI OTS 5A & 5E CTIVELY TO	PERCENTAGE IS CALC NED IN THE FRANKLIN ZO B SHALL BE RECONFIGUE O MAINTAIN ZONING CO PLAN BY THE PLANNING	DNING BYLAW. RED AND RENAMED TO DMPLIANCE FOR THE	PROPOSED LOTS 5C & DEVELOPMENT PLAN.		DUSTRIAL DEVELOPMEN		
				GROSS FLOOR AF	REA REQUIRED	PROVIDED	RI,		10
		BUILDIN					ST		PARTNERS
		PROPOSE PROPOSE	D WAREHOUSE	206,500 GSF 13,500 GSF	207 SP. 54 SP.	-			ART
			SUBTOTAL		261 SP.				
		BUILDIN	IG 2			-		¥	BERKELEY
			D WAREHOUSE	57,750 GSF	58 SP.	-	l Sl	L PAF	
		PROPOSE	D OFFICE SUBTOTAL	7,250 GSF	29 SP. 87 SP.		WAREHOUSE/IN	100/200 FINANCIAL PARK FRANKLIN, MA	OWNER/APPLICANT:
								FINAN 4, MA	APPL
			IG 3 WAREHOUSE	65,000 GSF ±	65 SP.		AR	100/200 FI FRANKLIN,	IER//
				,				100/ FRAN	NWO
			PROPOSED TOTAL	350,000 GSF ±	413 SP.	262 SP.			
			VEHICUL		REQUIREMENT	-s	·		
		DESCRII			CALCULATION				
		OFFICE SF			1 PARKING SPACE PER 2				_
		WAREHOU	JSE		PARKING SPACE PER 1	,000 GSF	7 12.07.2023 6 10.26.2023	PLANNING BOARD ENDO	
		<u>NOTES</u> : 1. A PA	RKING WAIVER IS REQU		LIN PLANNING BOARD.		5 10.19.2023 4 10.05.2023 3 08.25.2023 2 08.14.2023 1 07.17.2023	RESPONSE TO COMMEN RESPONSE TO COMMEN RESPONSE TO COMMEN RESPONSE TO COMMEN RESPONSE TO COMMEN	ITS ITS ITS ITS
				EGEND			REV DATE	DESCRIPTION	
				IC.			PERMIT SET		
				POSED BIT. CONC.			ISSUE DATE: 05/11/2	023	
			FEMA LE				PROJECT NUMB	ER:	
			FLO	OD ZONE "X"					
			FLO	OD ZONE "AE"			DRAWN BY: CHECKED BY	JJP/CCL/WH : DJH	
			FLO	OD WAY				/ Highpoint Engineerin	ng, Inc.
		F	LEVATION B	ENCH MARK	S		SHEET TITLE:		
		▲ D	ATUM:		-		SITE		
			ESCRIPTION AGNETIC NAIL IN	PAVEMFNT		ELEV. 266.93		ORMAN	CE
		M M	AGNETIC NAIL IN	PAVEMENT		254.42	PLAN		
		N M	AGNETIC NAIL IN	PAVEMENT	_	251.92			
			100 0	50 100	200	400			
							SHEET NUMBER:	-100	
			GRAPHIC SCAL	.E		1 inch = 100 ft.		2100	

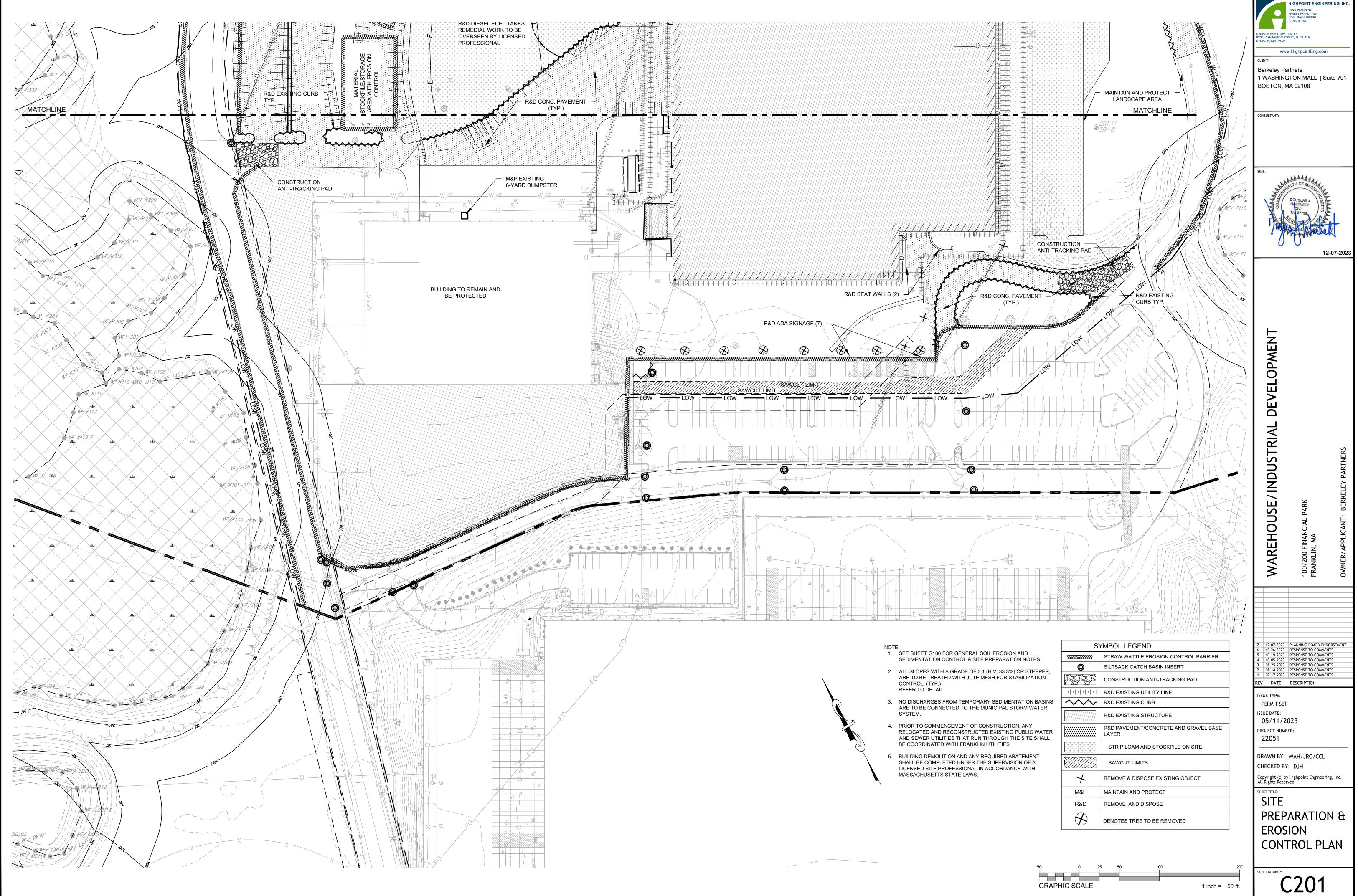
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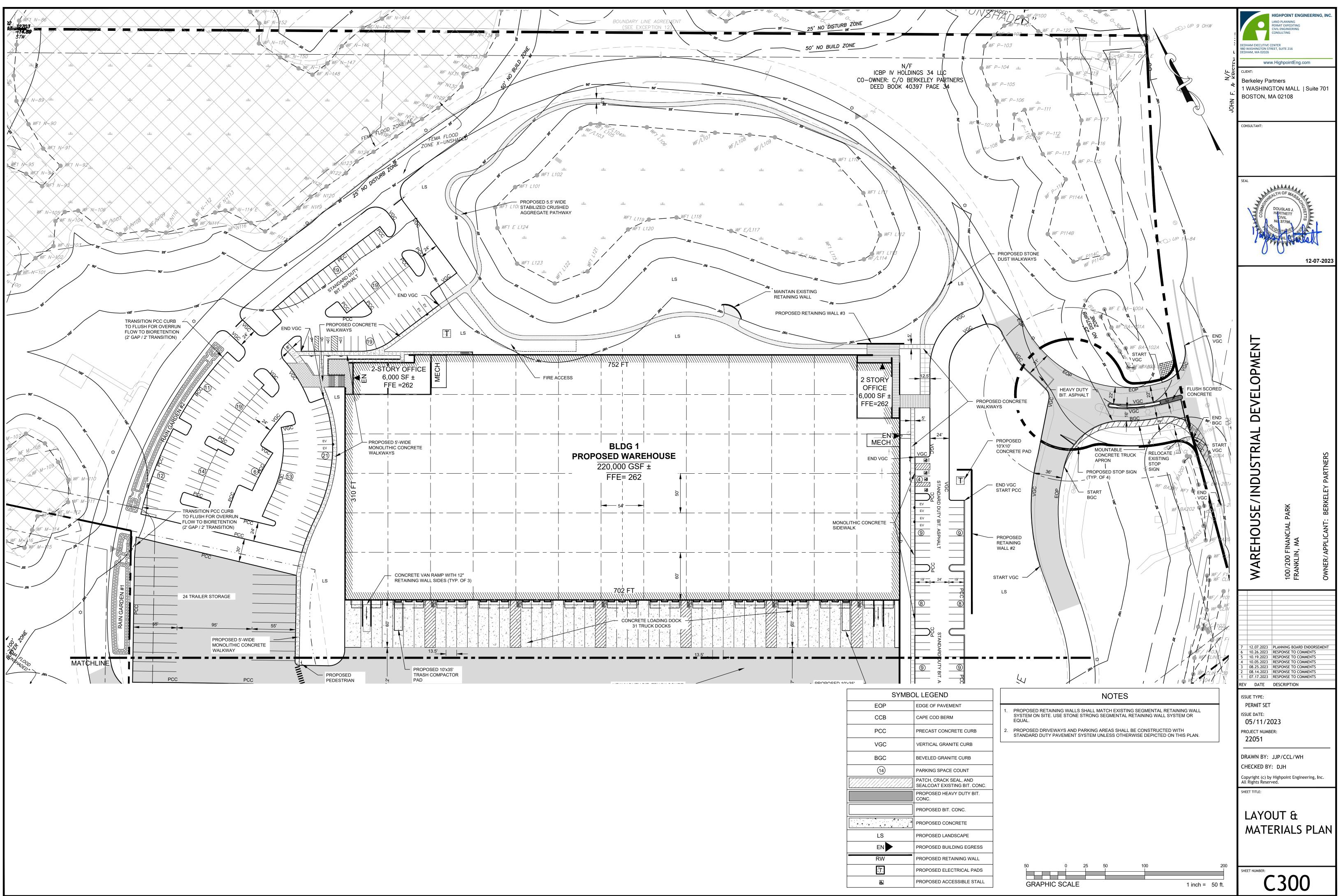
*****	STRAW WATTLE
Ø	SILTSACK CATC
	CONSTRUCTION
	R&D EXISTING U
$\sim \sim$	R&D EXISTING (
	R&D EXISTING S
•••••	R&D PAVEMENT LAYER
	STRIP LOAM A
	SEAL COAT C
×	REMOVE & DISF

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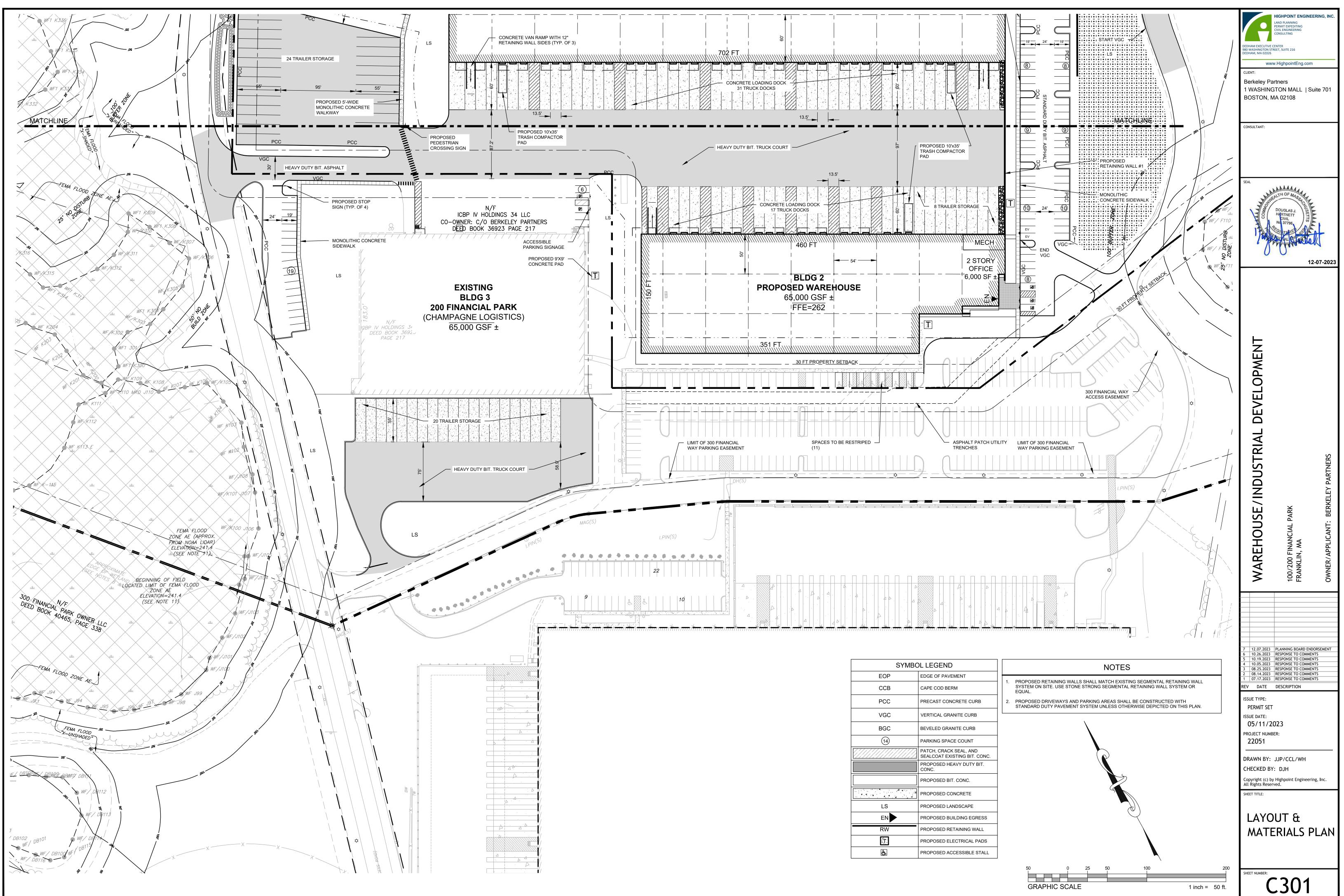


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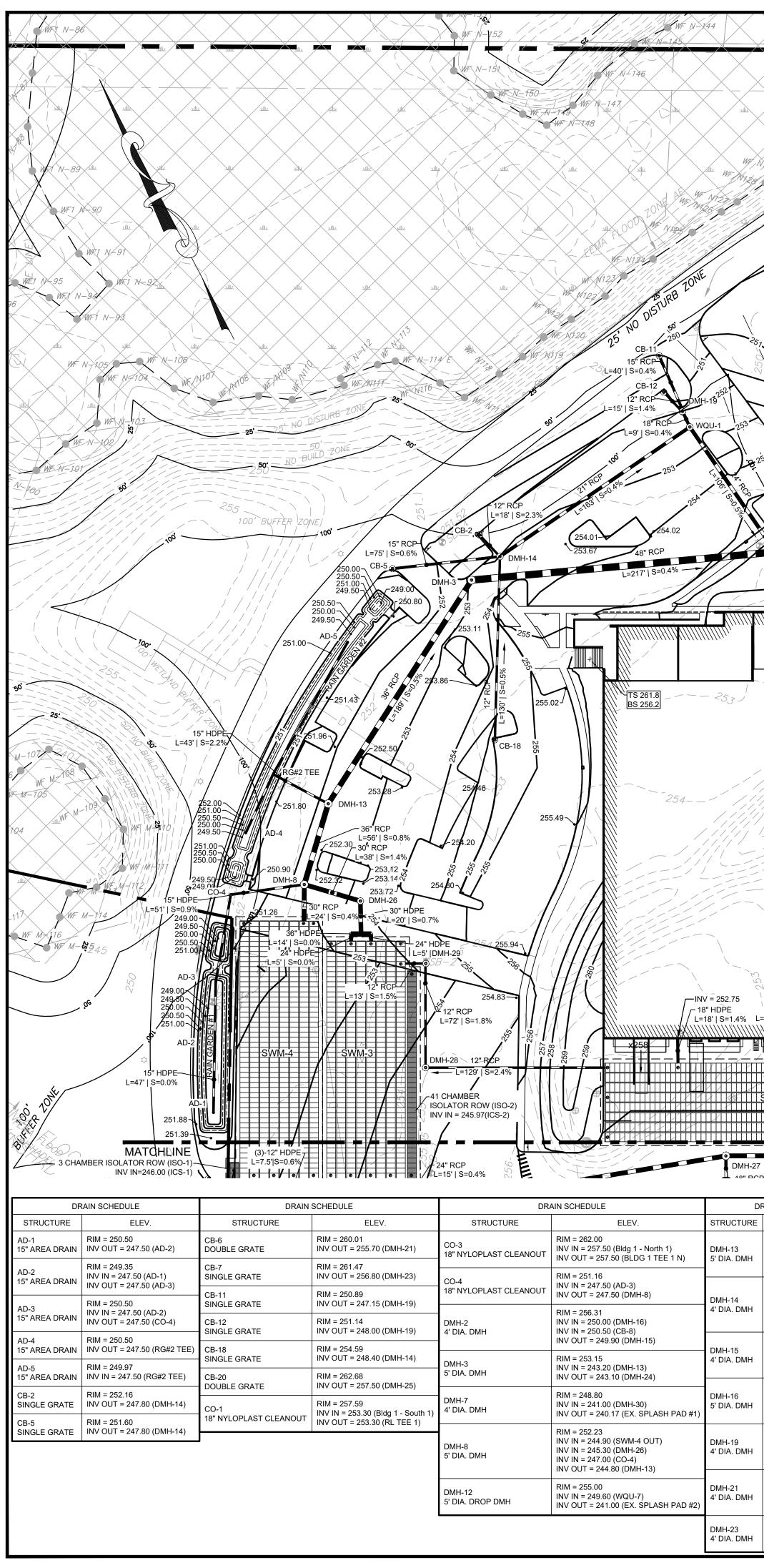
LE		1 inch =	50



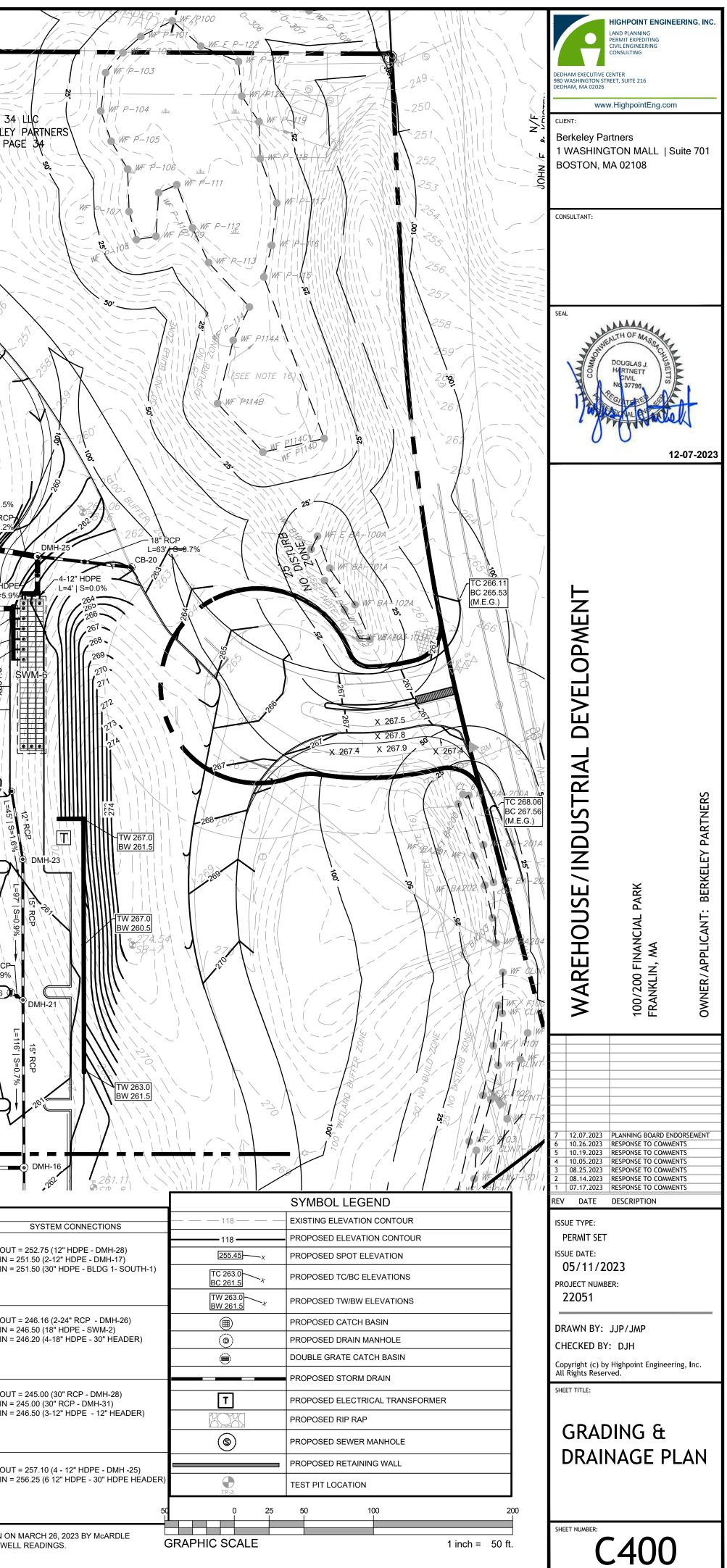
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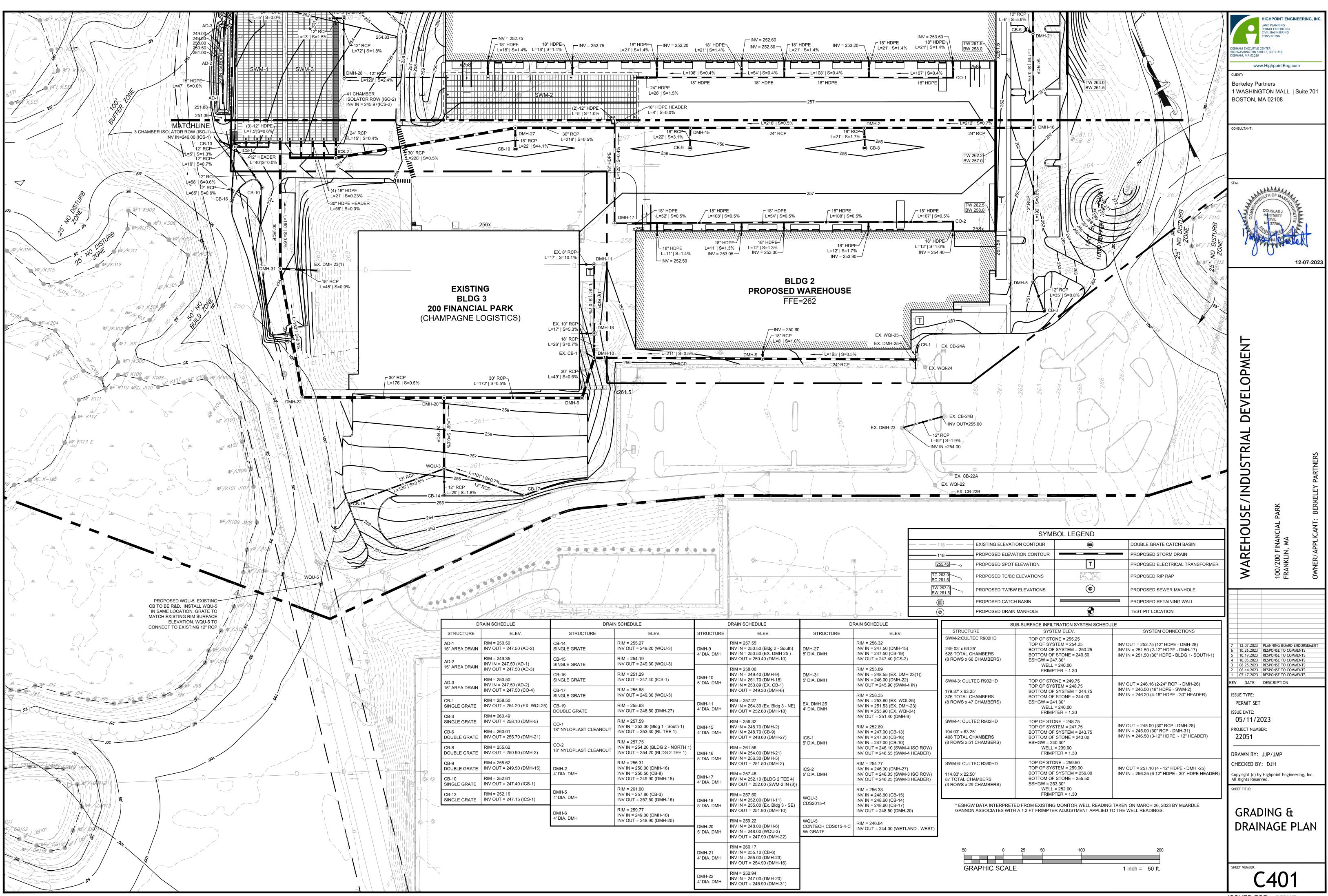


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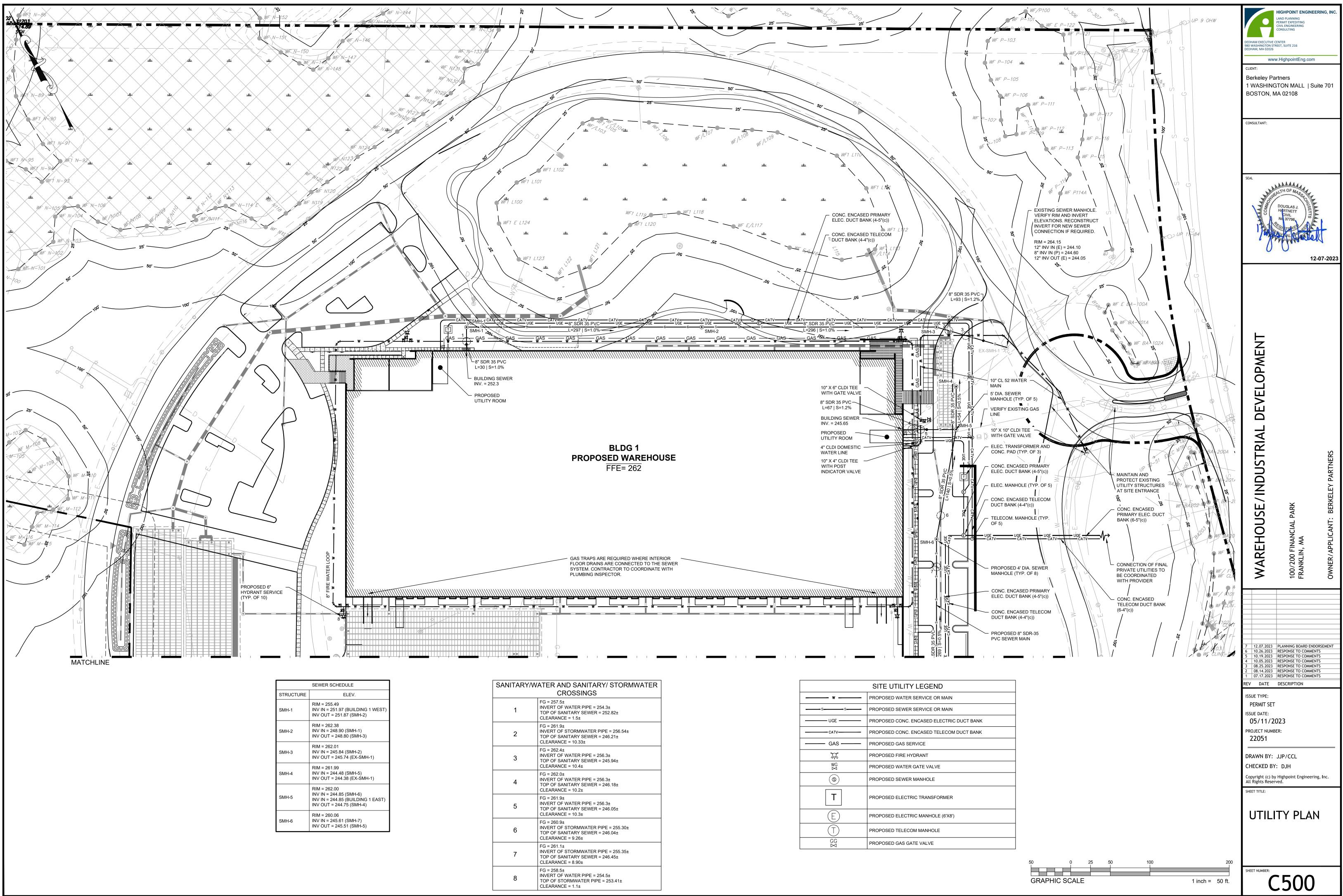


				13	25'-		DISTURB ZONE	
MF N/33 MF N/34 MF N/3	242 B	50 249 10 10 10 10 10 10 10 10 10 10 10 10 10		249 249 WF/LTO7 WF/LTO7	25" (F/L108 WF/L109	50' NO	C0 _ 0WI	N/F CBP IV HOLDINGS 34 NER: C/O BERKELEY ED BOOK 40397 PAC
	WF1_L101 WF1_L101 WITH SPLASHF WF1_L123	RAIN OUTFALL AD #1 = 239.85 	JUL MFJ I 119 MF1 L120 TEEL PIPE UT TO LENGTH AT NEW I 0.5%	.sz .sz 250		382. 582.	AD #2 = 240.50	WFT L112 WFT L113 St L12 St L23' S=1.5%
A8" F L=14 DMH-24		48" RCP 0 DMH-7 EX. DMH-18 0 DMH-30 259	26 ¹ 26 ² CO-3	265 265 265 264 263 263 263 263	02 100' BUFFE 267 262 DPE	NINING WALL	L=85' S=0.5%	L=25 0-1.5.0 36" RCP L=37' S=1.2% WQU-7 2 ⁵⁶ 3 36" HDPE L=25' S=5.9%
18" HDPE L=18' S=1.4%	18" HD L=21' S=1.4	BL PROPOSED FFE	$\frac{\text{HDPE}}{\text{S}=1.7\%} = \frac{24^{\circ} \text{ HDPE}}{1.53^{\circ} \text{S}=0.3\%}$ $\frac{\text{DG 1}}{\text{WAREHOUSE}}$ $= 262$ $\frac{1 \text{NV} = 252}{1 \text{NV} = 252}$	2.60		- 18" HDPE	L=95' S=	HDPE S=1.0% CB-7
SWM-2 (2)-12" HDPE (2)-12" H		L=108' S=0.4% 18" HDPE L=26' S=1.5% 18" HDPE HEADER L=4' S=0.0% 18" RCP DMH-15 L=22' S=3.1%	18" HDI				"HDPE	58 58 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
INV IN = 244.30 (DMH-8) INV OUT = 244.20 (DMH-3) RIM = 253.01	STRUCTURE MH-24 ' DIA. DMH	AIN SCHEDULE ELEV. RIM = 256.22 INV IN = 242.20 (DMH-3) INV IN = 246.00 (WQU-1) INV OUT = 242.10 (DMH-30) RIM = 261.88	WQU-1 INV II CASCADE CS-4 INV II INV II INV C	ELEV. = 252.43 N = 246.60 (DMH-14) N = 246.85 (DMH-19) OUT = 246.50 (DMH-24) = 257.07	STRUCTURE SWM-2:CULTEC R 249.03' x 63.25' 528 TOTAL CHAM (8 ROWS x 66 CHA	902HD BERS	FACE INFILTRATION SY SYSTEM ELEV. TOP OF STONE = 255.25 TOP OF SYSTEM = 254.2 BOTTOM OF SYSTEM = 2 BOTTOM OF SYSTEM = 24 BOTTOM OF STONE = 24 ESHGW = 247.30* WELL = 246.00 FRIMPTER = 1.30	25 INV OUT 250.25 INV IN = 2
INV IN = 247.30 (CB-5) INV IN = 247.70 (CB-18) INV OUT = 247.20 (WQU-1)	' DIA. DROP DMH MH-26 ' DIA. DMH	INV IN = 257.00 (CB-20) INV IN = 255.50 (SWM-6 OUT) INV OUT = 251.00 (WQU-7) RIM = 253.20 INV IN = 246.00 (SWM-3 OUT) INV OUT = 245.90 (DMH-8) RIM = 256.32		N = 250.50 (DMH-25) DUT = 250.00 (DMH-12)	SWM-3: CULTEC F 179.37' x 63.25' 376 TOTAL CHAM (8 ROWS x 47 CHA	BERS MBERS)	TOP OF STONE = 249.75 TOP OF SYSTEM = 248.7 BOTTOM OF SYSTEM = 2 BOTTOM OF STONE = 24 ESHGW = 241.30* WELL = 240.00 FRIMPTER = 1.30	244.75 14.00
RIM = 261.56 D INV IN = 254.00 (DMH-21) 5' INV IN = 256.30 (DMH-5) - INV OUT = 251.50 (DMH-2) D	MH-27 ' DIA. DMH	INV IN = 247.50 (DMH-15) INV IN = 247.50 (CB-19) INV OUT = 247.40 (ICS-2) RIM = 254.31 INV IN = 249.40 () INV OUT = 249.10 (DMH-29)			SWM-4: CULTEC F 194.03' x 63.25' 408 TOTAL CHAM (8 ROWS x 51 CHA	BERS MBERS)	TOP OF STONE = 248.75 TOP OF SYSTEM = 247.7 BOTTOM OF SYSTEM = 2 BOTTOM OF STONE = 24 ESHGW = 240.30* WELL = 239.00 FRIMPTER = 1.30 TOP OF STONE = 259.50	243.75 INV OUT 13.00 INV IN = 2
INV IN = 247.00 (CB-11) INV OUT = 246.90 (WQU-1) RIM = 260.17 INV IN = 255.10 (CB-6) INV IN = 255.00 (DMH-23) INV OUT = 254.90 (DMH-16)	MH-29 ' DIA. DMH MH-30	RIM = 254.28 INV IN = 247.80 (DMH-28) INV OUT = 247.70 (SWM-3 IN (2)) RIM = 252.62 INV IN = 241.30 (DMH-24) INV OUT = 241.20 (DMH-7)			SWM-6: CULTEC F 114.83' x 22.50' 87 TOTAL CHAMB (3 ROWS x 29 CHA	ERS MBERS)	TOP OF SYSTEM = 259.0 BOTTOM OF SYSTEM = 2 BOTTOM OF STONE = 25 ESHGW = 253.30* WELL = 252.00 FRIMPTER = 1.30	0 INV OUT 256.00 INV IN = 2 55.50
RIM = 261.16 INV IN = 256.00 (CB-7) INV OUT = 255.90 (DMH-21)								WELL READING TAKEN ON ENT APPLIED TO THE WEL





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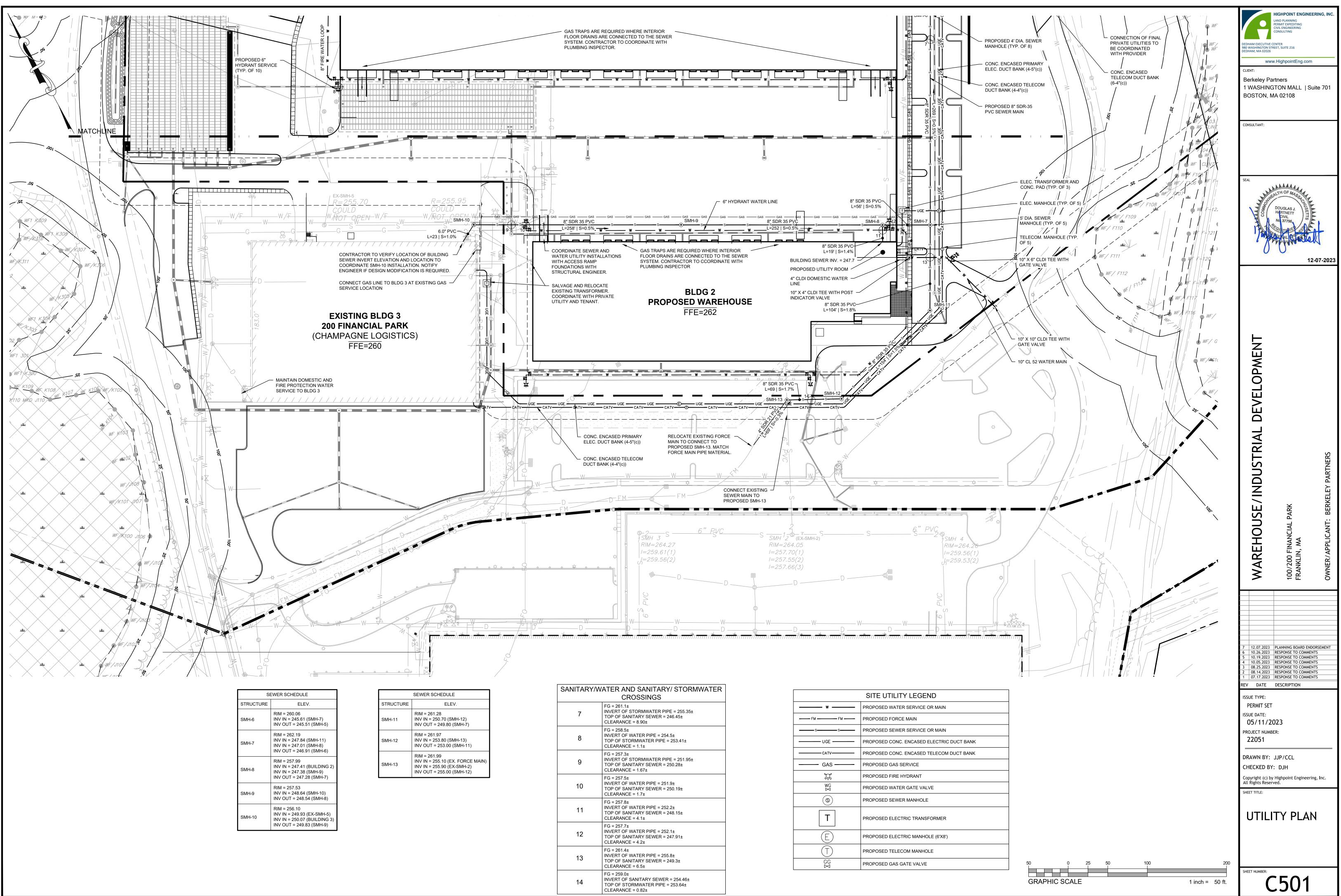


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SANITARY/WATER AND SANITARY/ STORMWATER CROSSINGS		
1	FG = $257.5\pm$ INVERT OF WATER PIPE = $254.3\pm$ TOP OF SANITARY SEWER = $252.82\pm$ CLEARANCE = $1.5\pm$	
2	FG = $261.9\pm$ INVERT OF STORMWATER PIPE = $256.54\pm$ TOP OF SANITARY SEWER = $246.21\pm$ CLEARANCE = $10.33\pm$	
3	FG = $262.4\pm$ INVERT OF WATER PIPE = $256.3\pm$ TOP OF SANITARY SEWER = $245.94\pm$ CLEARANCE = $10.4\pm$	
4	FG = $262.0\pm$ INVERT OF WATER PIPE = $256.3\pm$ TOP OF SANITARY SEWER = $246.18\pm$ CLEARANCE = $10.2\pm$	
5	FG = $261.9\pm$ INVERT OF WATER PIPE = $256.3\pm$ TOP OF SANITARY SEWER = $246.05\pm$ CLEARANCE = $10.3\pm$	
6	FG = 260.9± INVERT OF STORMWATER PIPE = 255.30± TOP OF SANITARY SEWER = 246.04± CLEARANCE = 9.26±	
7	FG = $261.1\pm$ INVERT OF STORMWATER PIPE = $255.35\pm$ TOP OF SANITARY SEWER = $246.45\pm$ CLEARANCE = $8.90\pm$	
8	FG = 258.5± INVERT OF WATER PIPE = 254.5± TOP OF STORMWATER PIPE = 253.41± CLEARANCE = 1.1±	

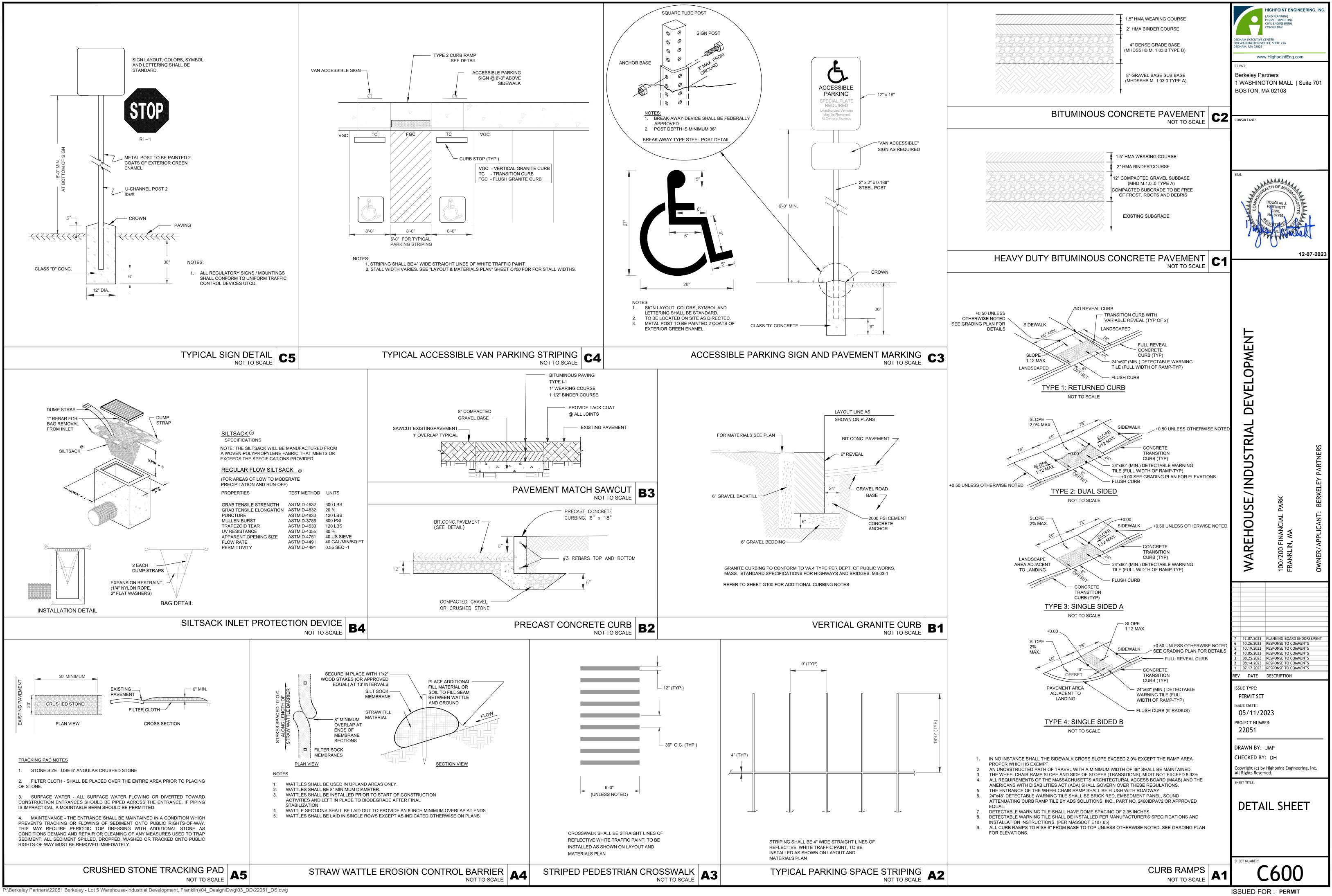
	SITE UTILITY LEGEN
w	PROPOSED WATER SERVICE O
SS	PROPOSED SEWER SERVICE O
UGE	PROPOSED CONC. ENCASED E
CATV	PROPOSED CONC. ENCASED T
——— GAS ———	PROPOSED GAS SERVICE
ЪС.	PROPOSED FIRE HYDRANT
WG	PROPOSED WATER GATE VALV
9	PROPOSED SEWER MANHOLE
Т	PROPOSED ELECTRIC TRANSF
E	PROPOSED ELECTRIC MANHOL
	PROPOSED TELECOM MANHOL
GG ⊠	PROPOSED GAS GATE VALVE

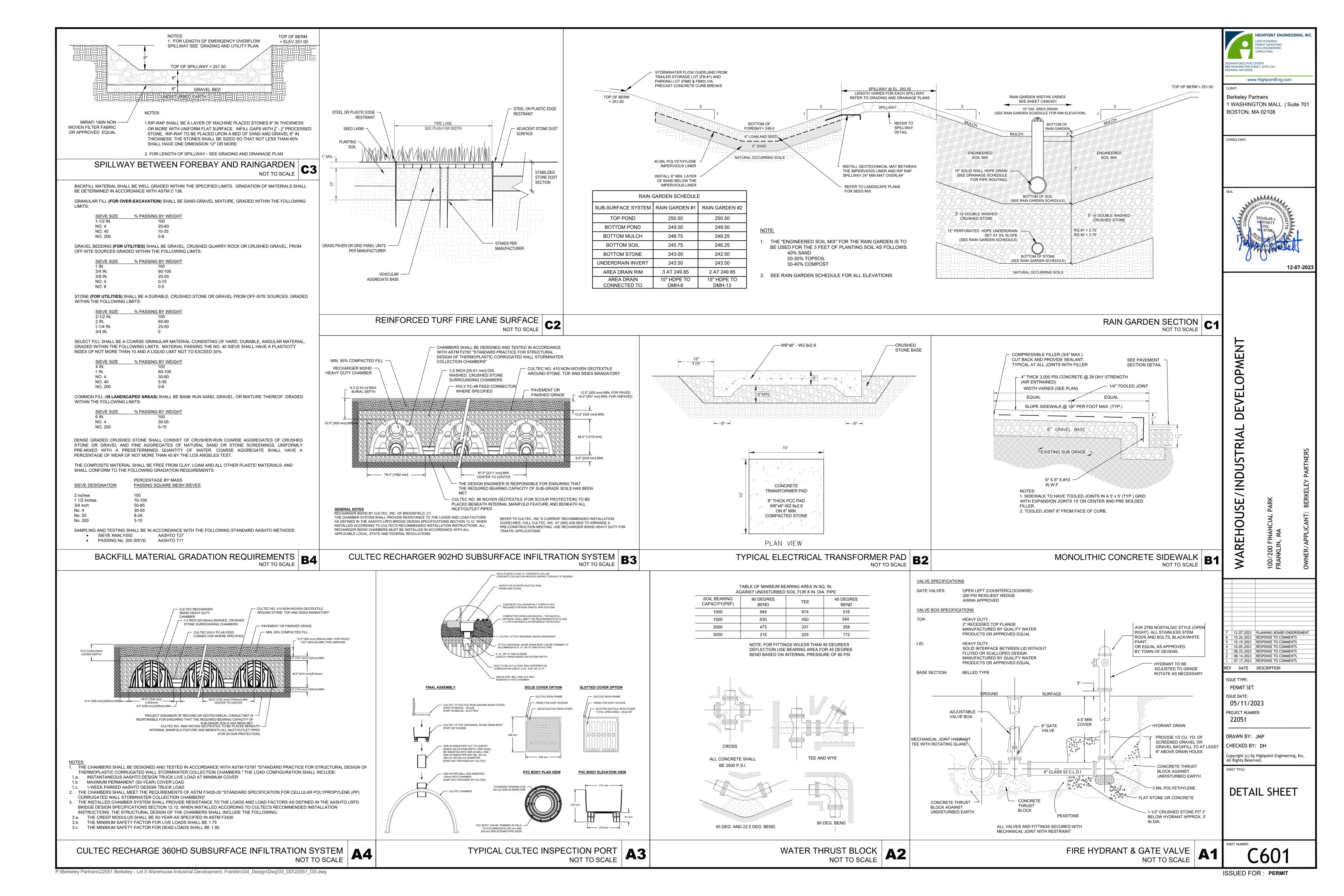
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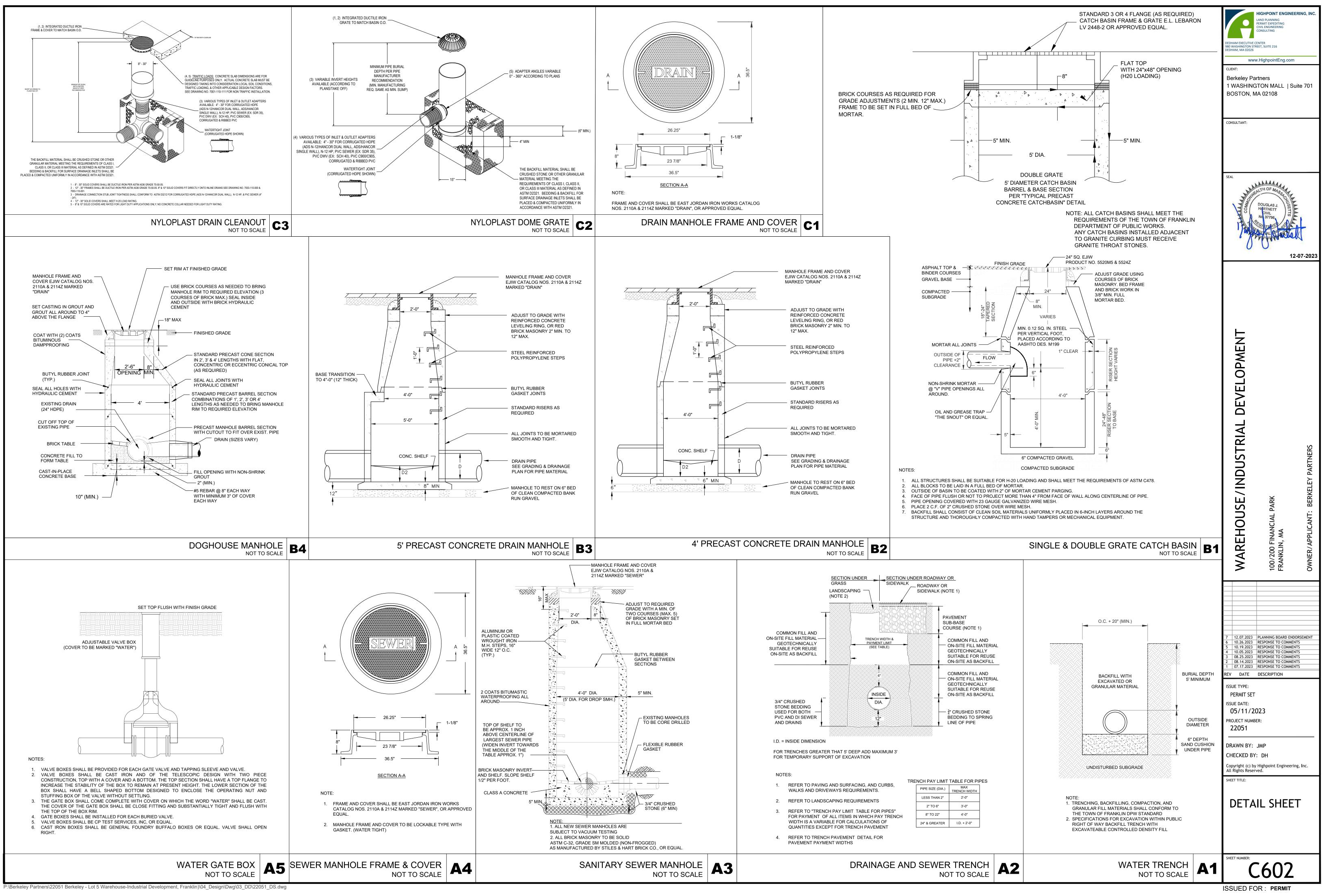


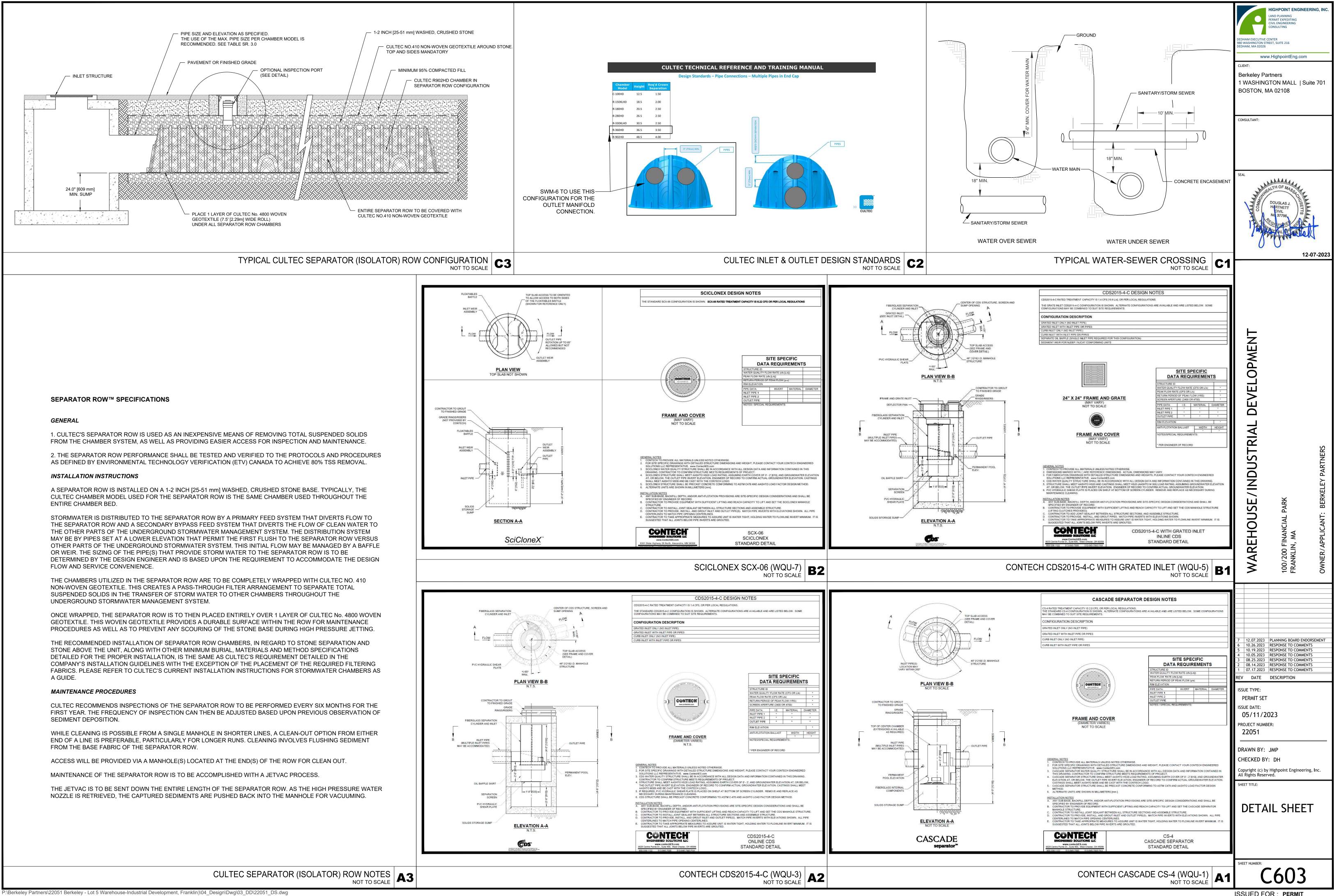
SANITARY/WATER AND SANITARY/ STORMWATER CROSSINGS		
7	FG = 261.1± INVERT OF STORMWATER PIPE = 255.35± TOP OF SANITARY SEWER = 246.45± CLEARANCE = 8.90±	
8	FG = $258.5\pm$ INVERT OF WATER PIPE = $254.5\pm$ TOP OF STORMWATER PIPE = $253.41\pm$ CLEARANCE = $1.1\pm$	
9	FG = 257.3± INVERT OF STORMWATER PIPE = 251.95± TOP OF SANITARY SEWER = 250.28± CLEARANCE = 1.67±	
10	FG = 257.5± INVERT OF WATER PIPE = 251.9± TOP OF SANITARY SEWER = 250.19± CLEARANCE = 1.7±	
11	FG = 257.8± INVERT OF WATER PIPE = 252.2± TOP OF SANITARY SEWER = 248.15± CLEARANCE = 4.1±	
12	FG = 257.7± INVERT OF WATER PIPE = 252.1± TOP OF SANITARY SEWER = 247.91± CLEARANCE = 4.2±	
13	FG = 261.4± INVERT OF WATER PIPE = 255.8± TOP OF SANITARY SEWER = 249.3± CLEARANCE = 6.5±	
14	FG = 259.0± INVERT OF SANITARY SEWER = 254.46± TOP OF STORMWATER PIPE = 253.64± CLEARANCE = 0.82±	

	SITE UTILITY LEGEND
w	PROPOSED WATER SERVICE OR
FM FM	PROPOSED FORCE MAIN
SS	PROPOSED SEWER SERVICE OR
UGE	PROPOSED CONC. ENCASED ELE
CATV	PROPOSED CONC. ENCASED TEL
——— GAS ———	PROPOSED GAS SERVICE
ж.	PROPOSED FIRE HYDRANT
₩G	PROPOSED WATER GATE VALVE
6	PROPOSED SEWER MANHOLE
Т	PROPOSED ELECTRIC TRANSFOR
E	PROPOSED ELECTRIC MANHOLE
T	PROPOSED TELECOM MANHOLE
GG X	PROPOSED GAS GATE VALVE

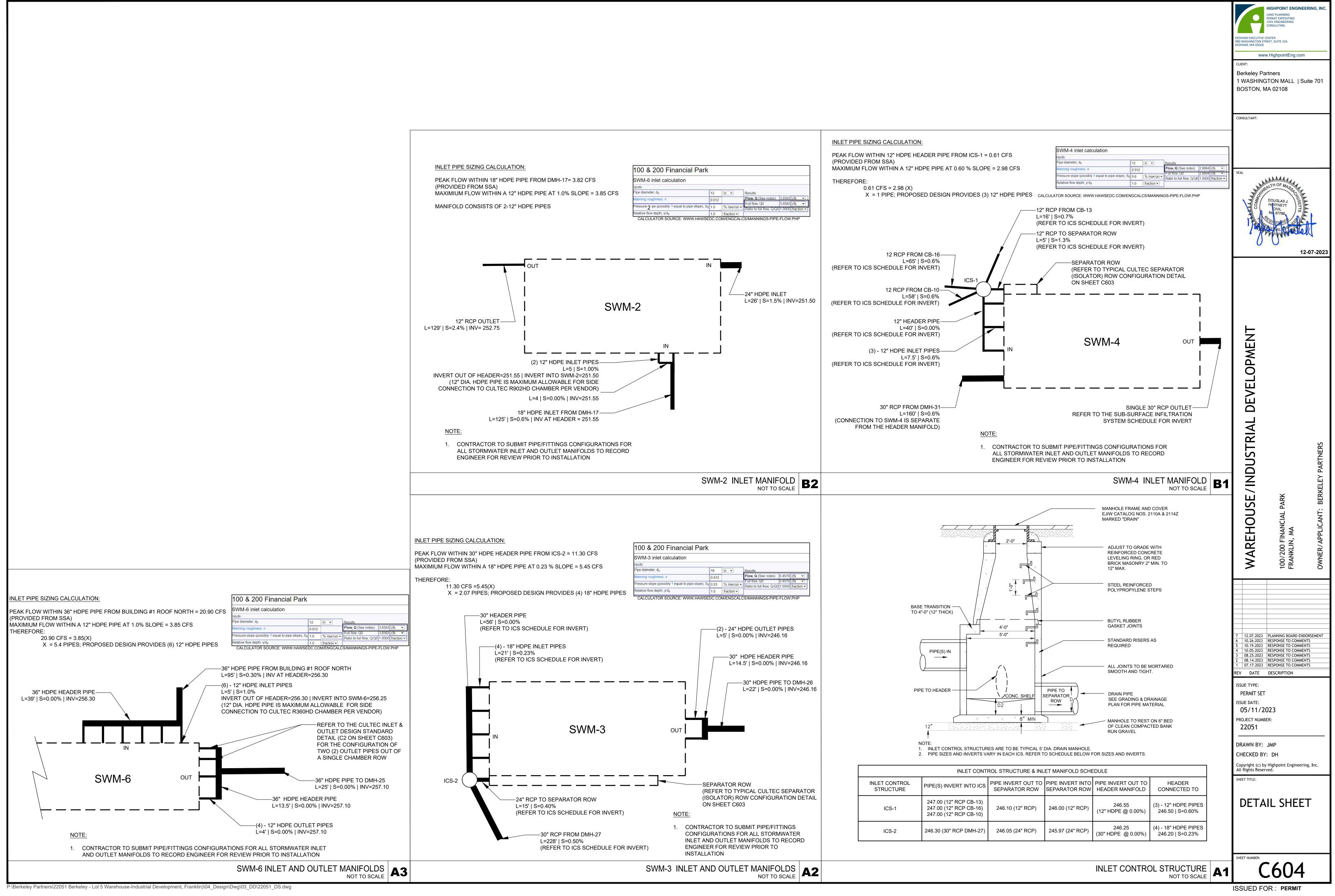


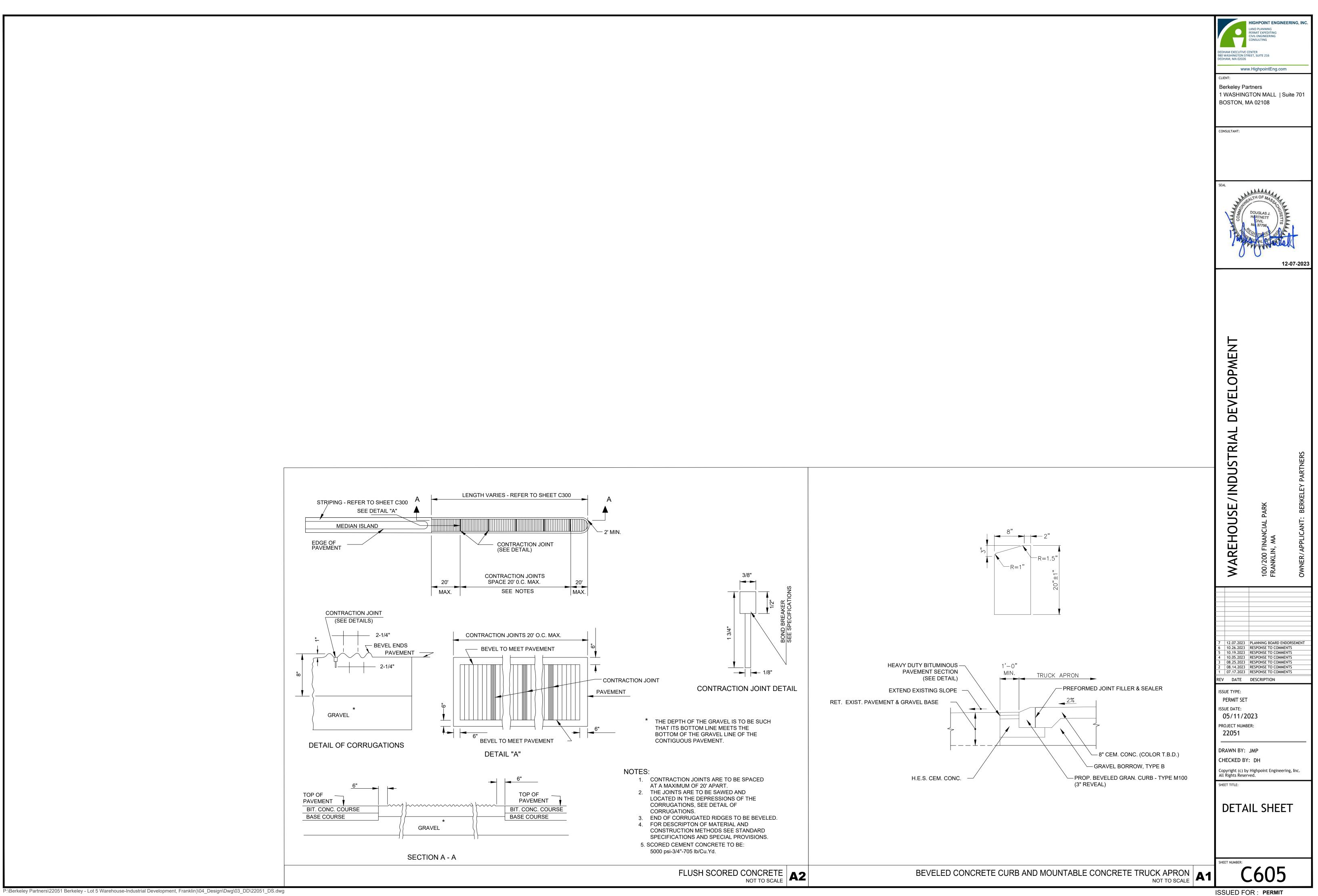


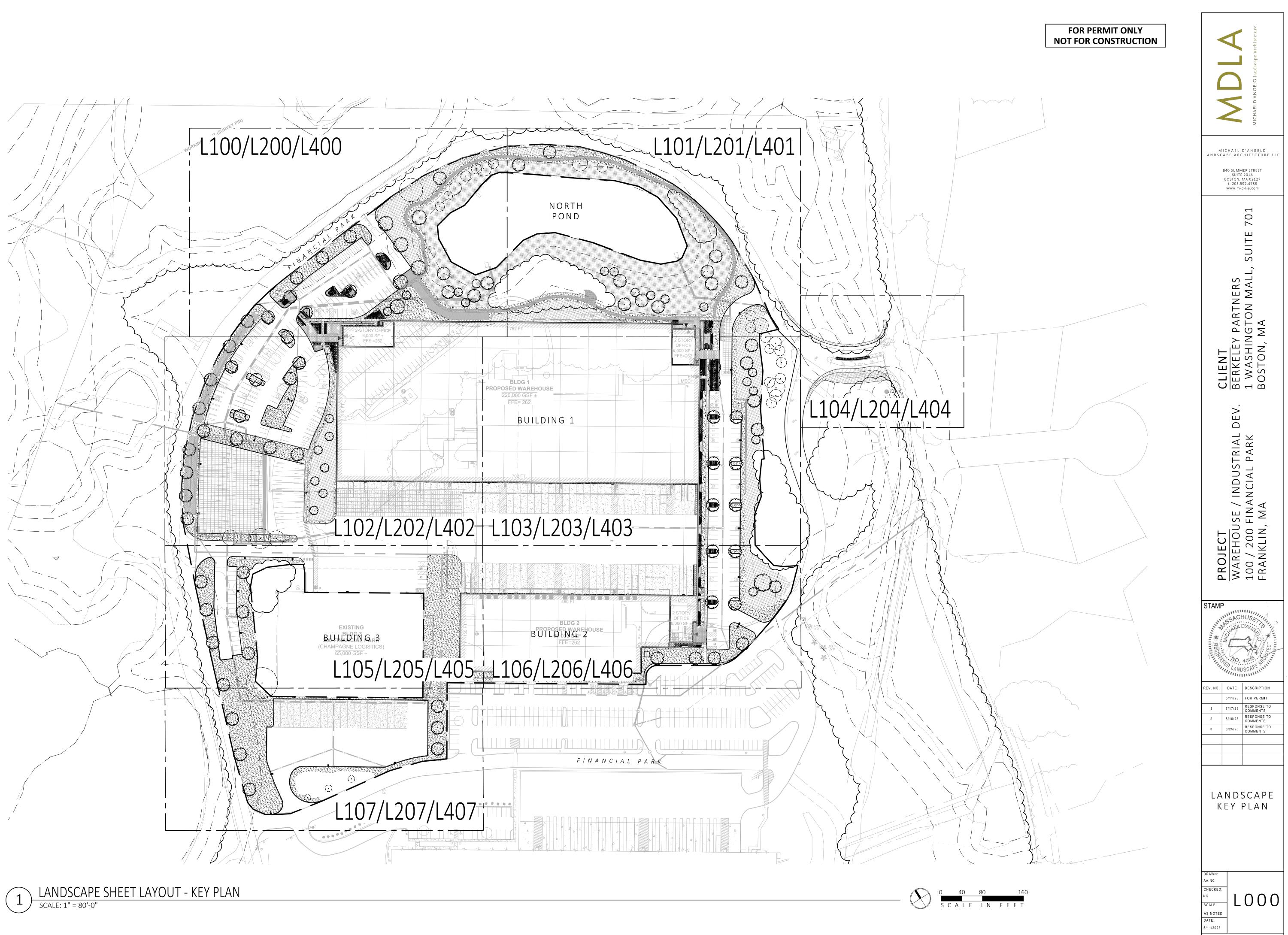




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SHEET 1 OF 28 plot date: 10/26/2023

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
a 4 4	CONCRETE PAVEMENT
	PERMEABLE CONCRETE PAVERS
	STONE SURFACING
	STONE DUST POND PATH
	REINFORCED TURF
● ^{BL1}	LIGHT BOLLARD
	LIGHT POLE
	EXISTING TREELINE TO REMAIN

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

100' BUFFER ZONE

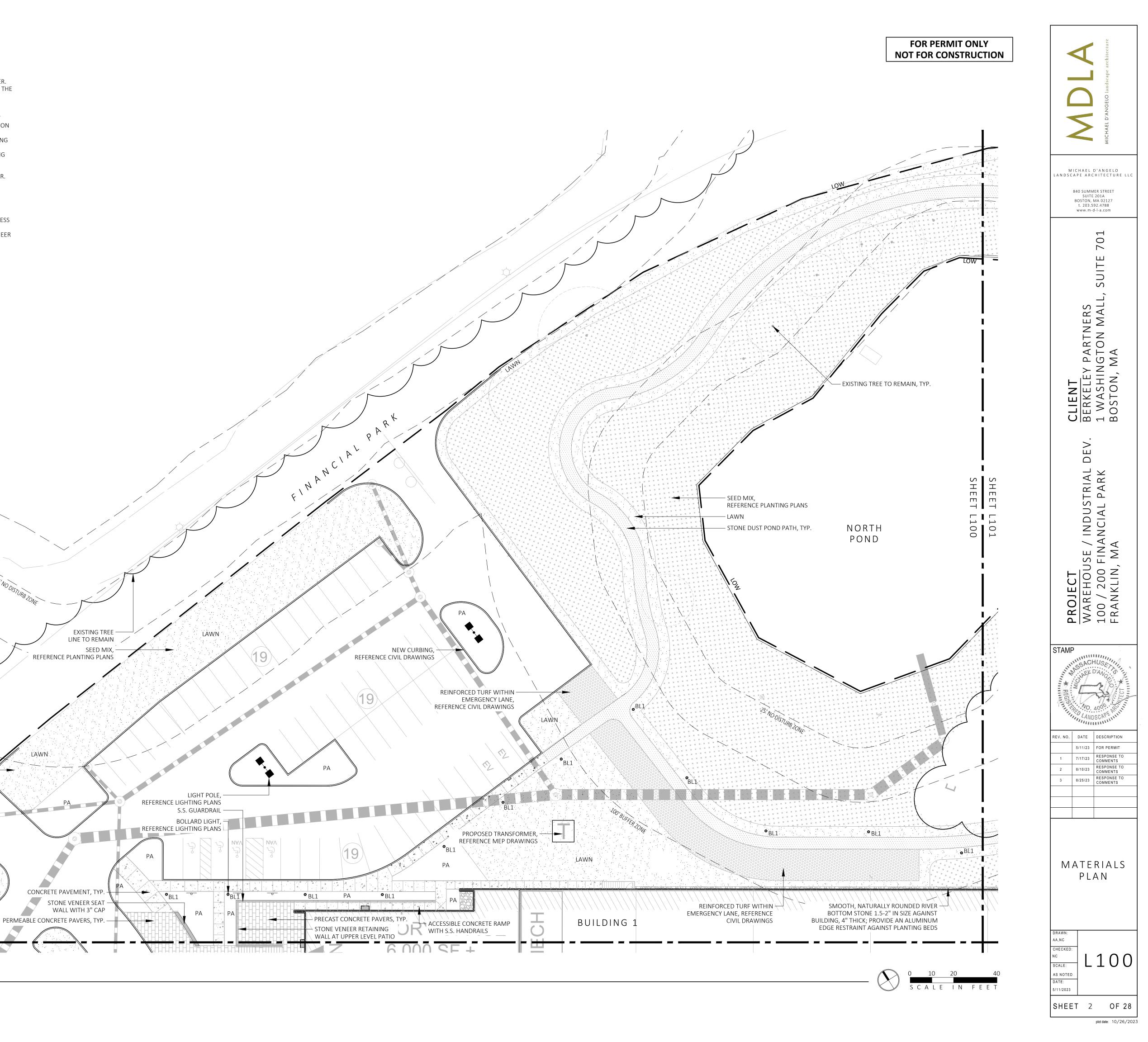
CONCRETE PAVEMENT, TYP. UNDERGROUND DRAINAGE, REFERENCE CIVIL DRAWINGS

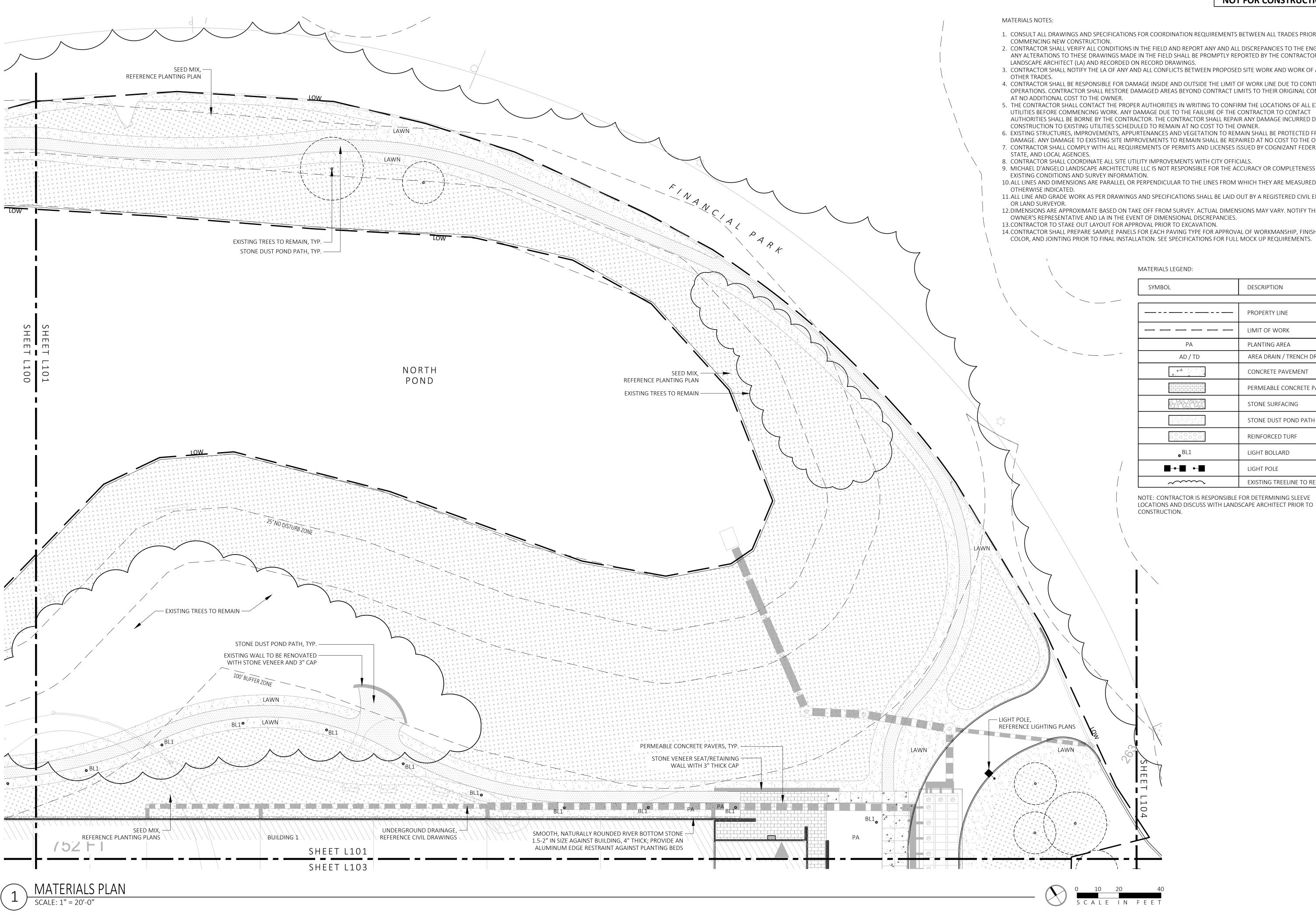
LAWN

I AWN



SCALE: 1" = 20'-0"





FOR PERMIT ONLY NOT FOR CONSTRUCTION

DESCRIPTION

PROPERTY LINE

LIMIT OF WORK

PLANTING AREA

AREA DRAIN / TRENCH DRAIN

PERMEABLE CONCRETE PAVERS

EXISTING TREELINE TO REMAIN

CONCRETE PAVEMENT

STONE SURFACING

REINFORCED TURF

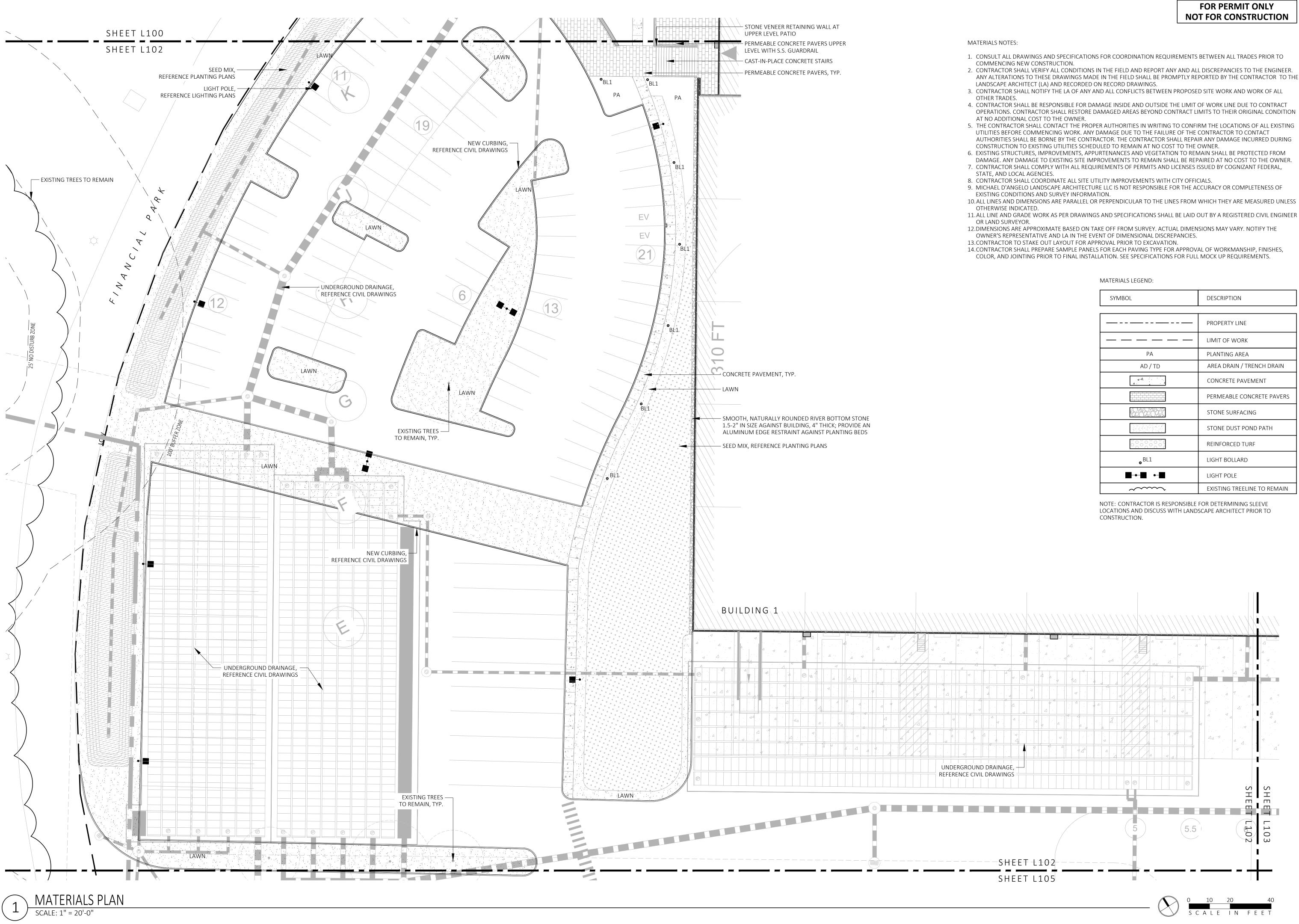
LIGHT BOLLARD

LIGHT POLE

STONE DUST POND PATH

- 1. CONSULT ALL DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BETWEEN ALL TRADES PRIOR TO
- 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
- 3. CONTRACTOR SHALL NOTIFY THE LA OF ANY AND ALL CONFLICTS BETWEEN PROPOSED SITE WORK AND WORK OF ALL 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 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
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- 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.





NOT FOR CONSTRUCTION

- ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD SHALL BE PROMPTLY REPORTED BY THE CONTRACTOR TO THE
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- AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY DAMAGE INCURRED DURING
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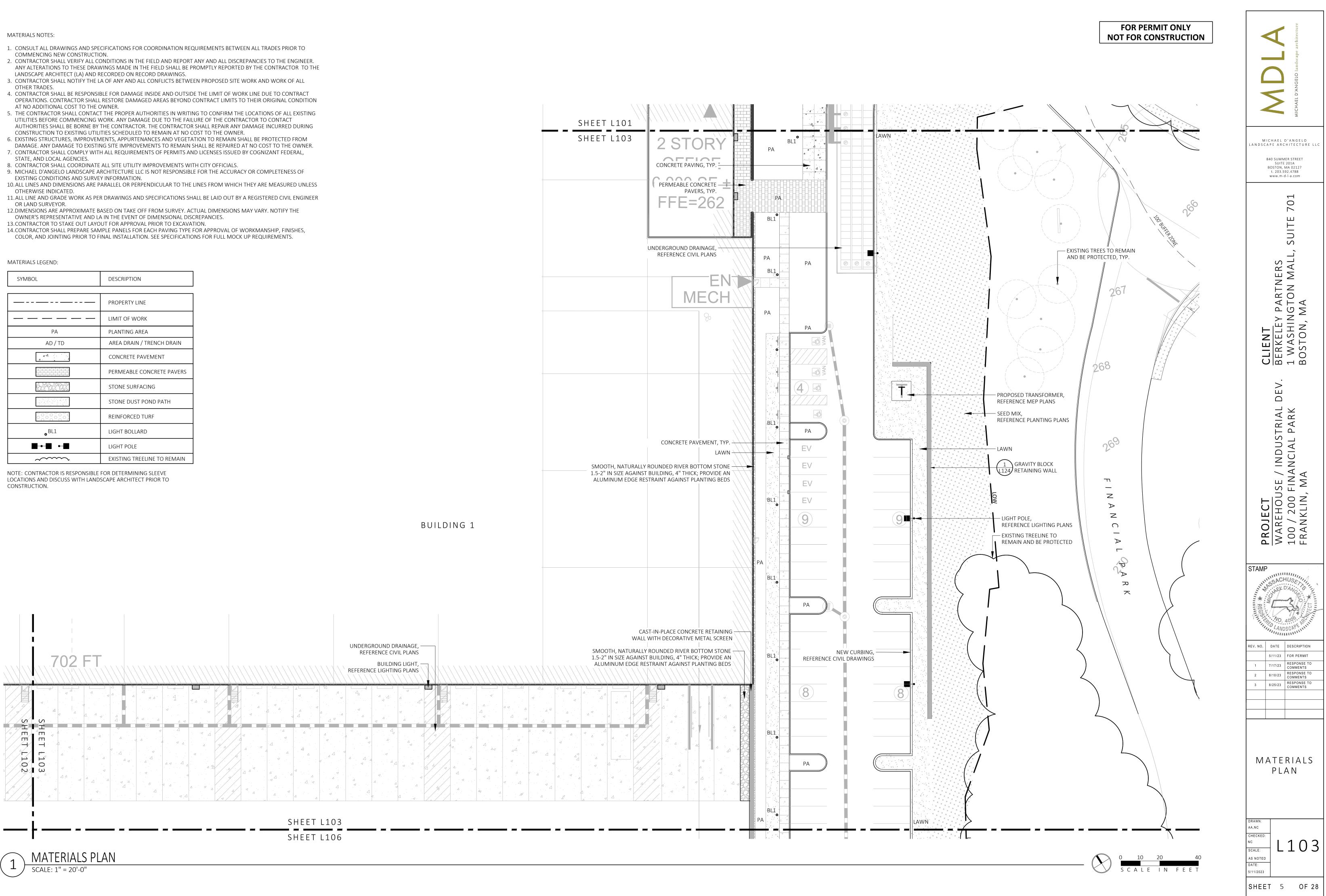
MATERIALS LEGEND:	
SYMBOL	DESCRIPTION
	PROPERTY LINE
	LIMIT OF WORK
PA	PLANTING AREA
AD / TD	AREA DRAIN / TRENCH DRAIN
ح ۵	CONCRETE PAVEMENT
	PERMEABLE CONCRETE PAVERS
	STONE SURFACING
	STONE DUST POND PATH
	REINFORCED TURF
● ^{BL1}	LIGHT BOLLARD
	LIGHT POLE
	EXISTING TREELINE TO REMAIN



- LANDSCAPE ARCHITECT (LA) AND RECORDED ON RECORD DRAWINGS.
- OTHER TRADES.
- AT NO ADDITIONAL COST TO THE OWNER.
- 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
- STATE, AND LOCAL AGENCIES.
- OTHERWISE INDICATED.
- OR LAND SURVEYOR.

- COLOR, AND JOINTING PRIOR TO FINAL INSTALLATION. SEE SPECIFICATIONS FOR FULL MOCK UP REQUIREMENTS.

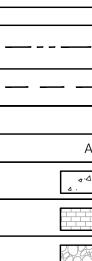
SYMBOL	DESCRIPTION
	PROPERTY LINE
	LIMIT OF WORK
РА	PLANTING AREA
AD / TD	AREA DRAIN / TRENCH DRAIN
a 4.	CONCRETE PAVEMENT
	PERMEABLE CONCRETE PAVERS
	STONE SURFACING
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● ^{BL1}	LIGHT BOLLARD
	LIGHT POLE
	EXISTING TREELINE TO REMAIN

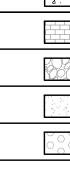




MATERIALS NOTES:

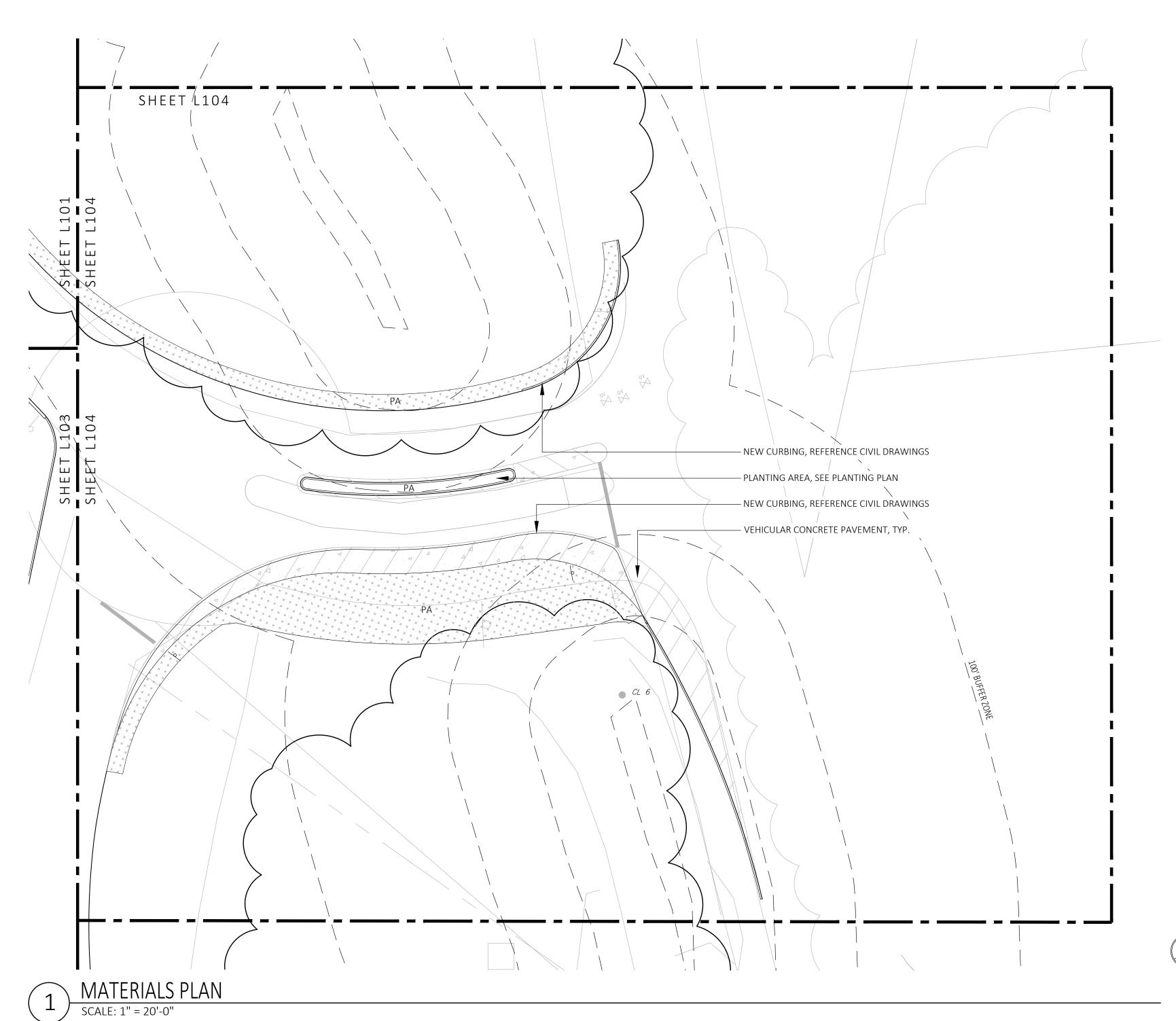
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- OTHER TRADES. 4. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE INSIDE AND OUTSIDE THE LIMIT OF WORK LINE DUE TO CONTRACT OPERATIONS. CONTRACTOR SHALL RESTORE DAMAGED AREAS BEYOND CONTRACT LIMITS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE 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.





- \sim

CONSTRUCTION.



MATERIALS LEGEND:

SYMBOL

	DESCRIPTION
	PROPERTY LINE
	LIMIT OF WORK
РА	PLANTING AREA
AD / TD	AREA DRAIN / TRENCH DRAIN
	CONCRETE PAVEMENT
	PERMEABLE CONCRETE PAVERS
	STONE SURFACING
	STONE DUST POND PATH
0,0000	REINFORCED TURF
● ^{BL1}	LIGHT BOLLARD
	LIGHT POLE
~~~~~	EXISTING TREELINE TO REMAIN

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



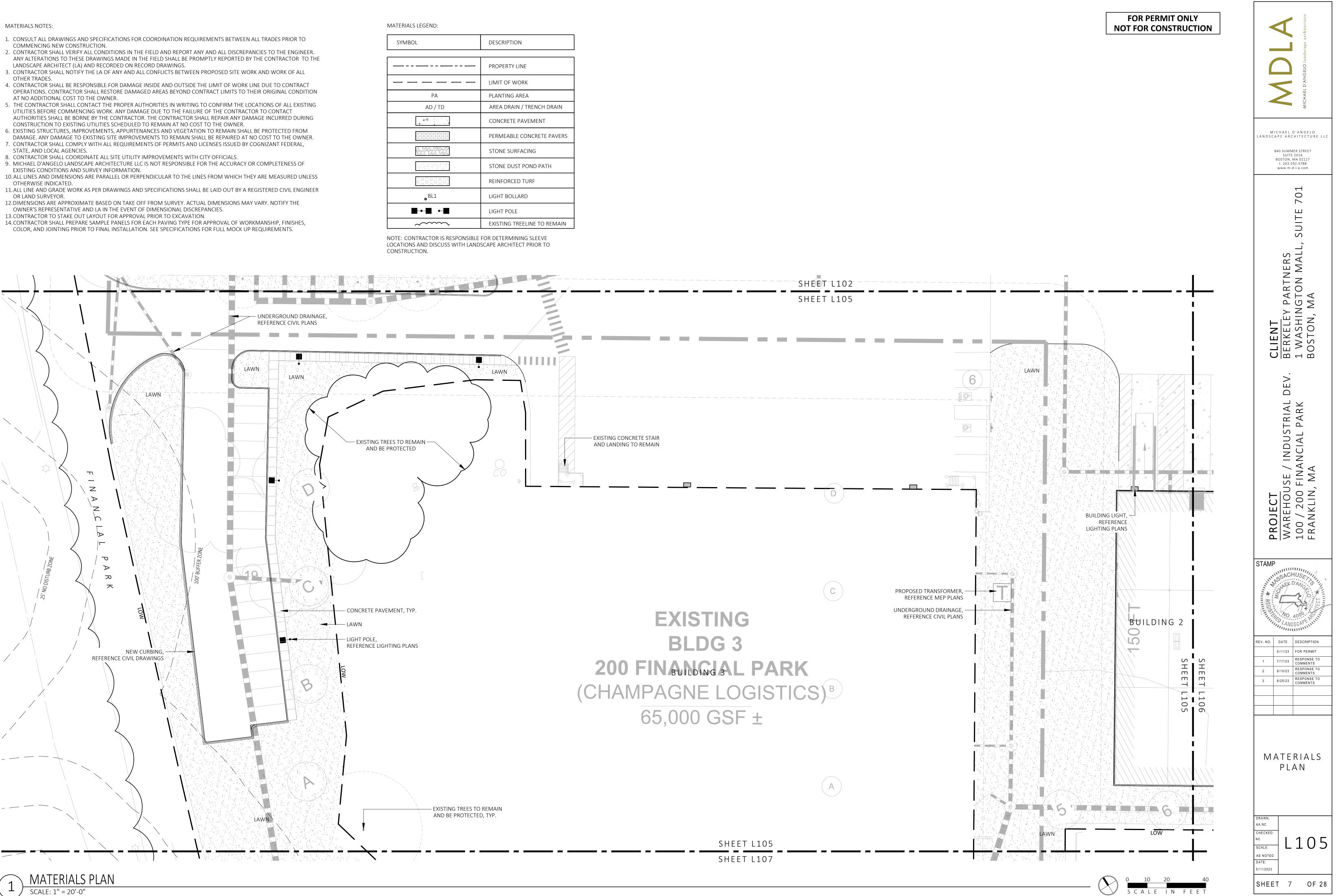
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MICHAEL D'ANGELO landscape architecture
MICHAEL D'ANGELO LANDSCAPE ARCHITECTURE LLC 840 SUMMER STREET SUITE 201A BOSTON, MA 02127 t. 203.592.4788
CLIENT BERKELEY PARTNERS 1 WASHINGTON MALL, SUITE 701 BOSTON, MA
PROJECT WAREHOUSE / INDUSTRIAL DEV. 100 / 200 FINANCIAL PARK FRANKLIN, MA
STAMP SSACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHUSET SACHU
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MATERIALS PLAN
AA,NC CHECKED: NC SCALE: AS NOTED DATE: 5/11/2023 CHEET 6 OF 28

- LANDSCAPE ARCHITECT (LA) AND RECORDED ON RECORD DRAWINGS.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE INSIDE AND OUTSIDE THE LIMIT OF WORK LINE DUE TO CONTRACT
- 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
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- OTHERWISE INDICATED.
- OR LAND SURVEYOR.

- COLOR, AND JOINTING PRIOR TO FINAL INSTALLATION. SEE SPECIFICATIONS FOR FULL MOCK UP REQUIREMENTS.



	DESCRIPTION
	PROPERTY LINE
	LIMIT OF WORK
РА	PLANTING AREA
AD / TD	AREA DRAIN / TRENCH DRAIN
Δ	CONCRETE PAVEMENT
	PERMEABLE CONCRETE PAVERS
	STONE SURFACING
	STONE DUST POND PATH
	REINFORCED TURF
BL1	LIGHT BOLLARD
	LIGHT POLE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	EXISTING TREELINE TO REMAIN

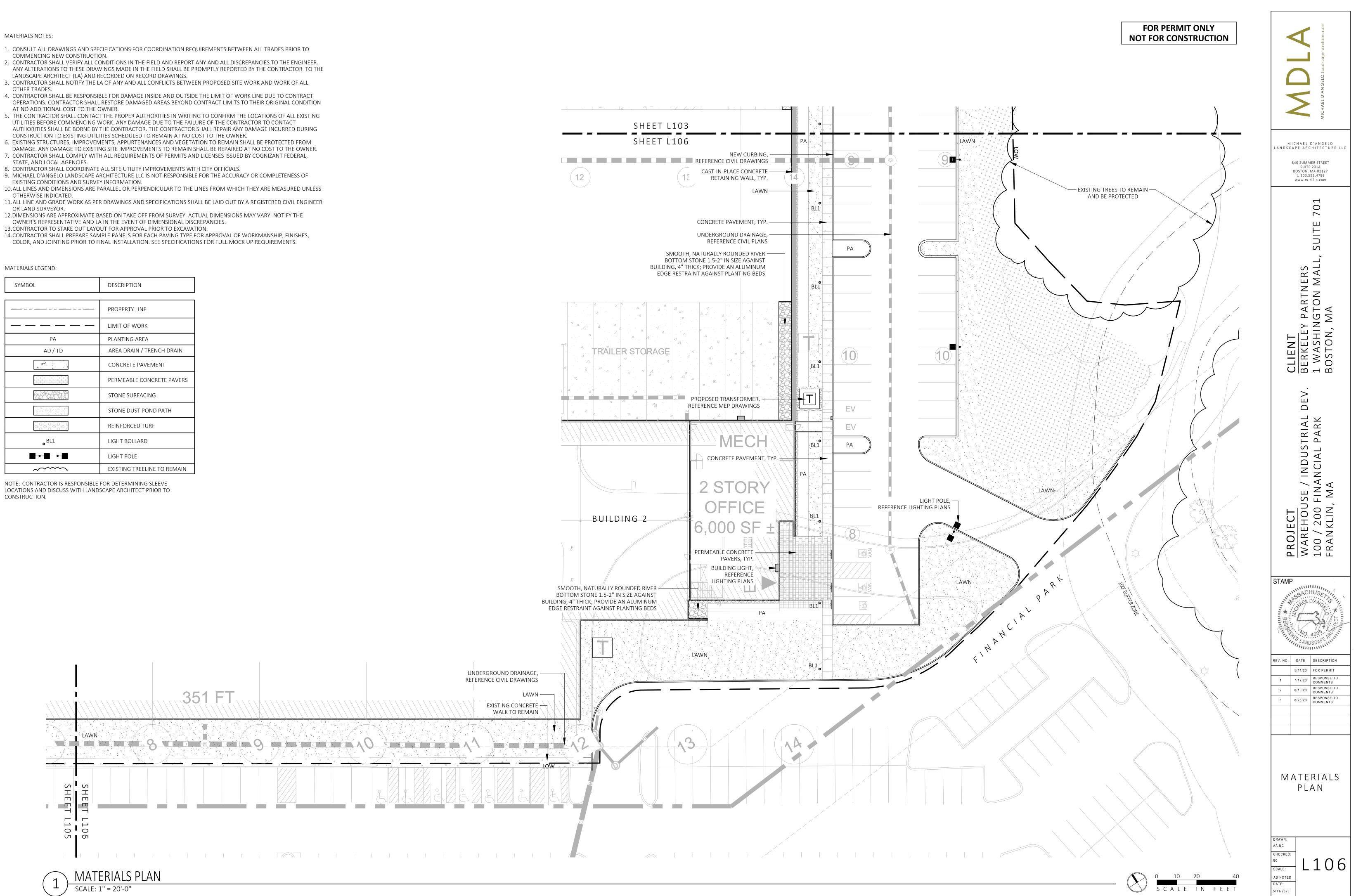
MATERIALS NOTES:

- 1. CONSULT ALL DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BETWEEN ALL TRADES PRIOR TO
- 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.
- OTHER TRADES.
- OPERATIONS. CONTRACTOR SHALL RESTORE DAMAGED AREAS BEYOND CONTRACT LIMITS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
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MATERIALS LEGEND:

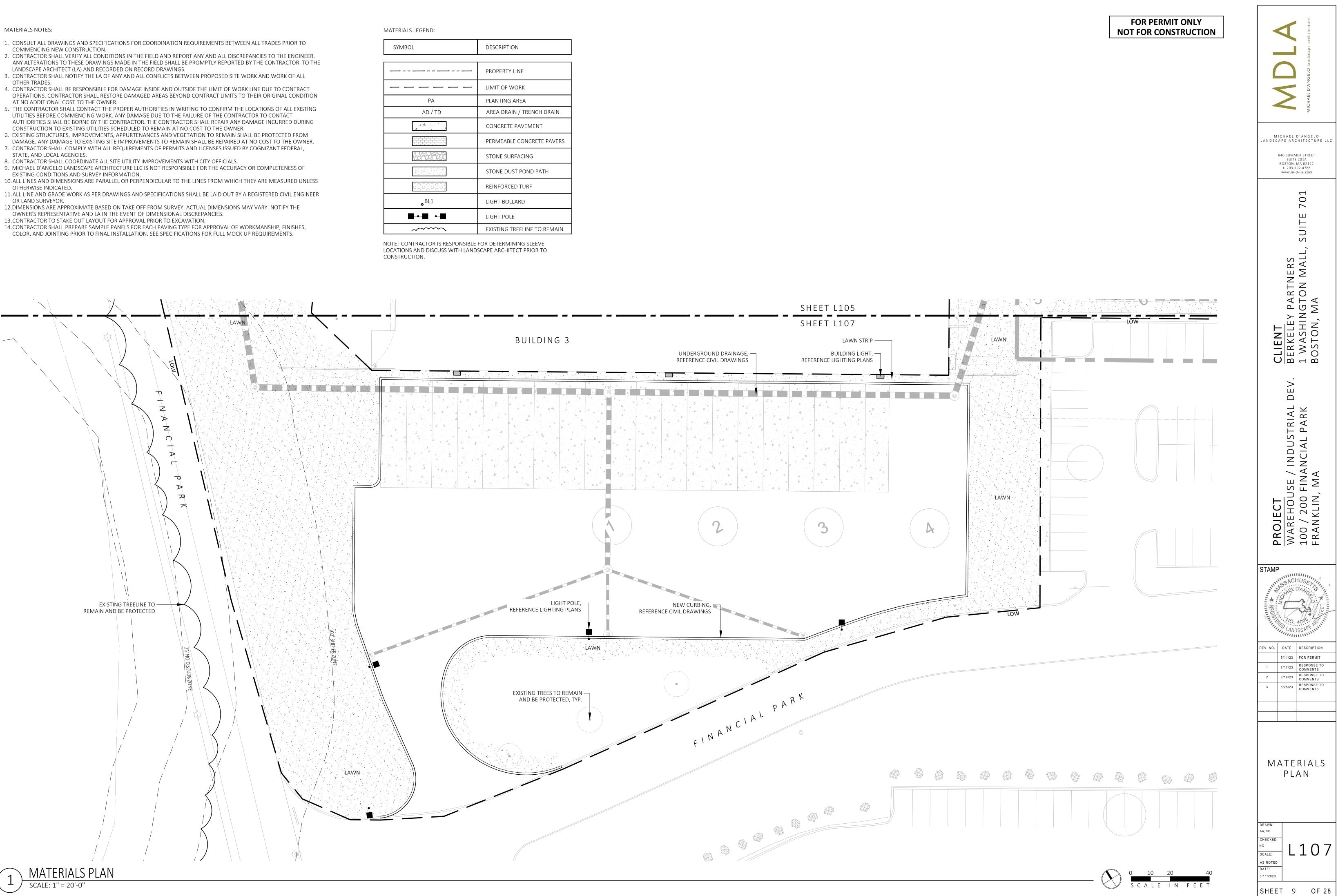
SYMBOL	DESCRIPTION
	PROPERTY LINE
	LIMIT OF WORK
PA	PLANTING AREA
AD / TD	AREA DRAIN / TRENCH DRAIN
4 4 4	CONCRETE PAVEMENT
	PERMEABLE CONCRETE PAVERS
	STONE SURFACING
	STONE DUST POND PATH
	REINFORCED TURF
● ^{BL1}	LIGHT BOLLARD
	LIGHT POLE
	EXISTING TREELINE TO REMAIN

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



SHEET 8 OF 28

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- EXISTING CONDITIONS AND SURVEY INFORMATION.
- OTHERWISE INDICATED.
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- 13.CONTRACTOR TO STAKE OUT LAYOUT FOR APPROVAL PRIOR TO EXCAVATION.
- COLOR, AND JOINTING PRIOR TO FINAL INSTALLATION. SEE SPECIFICATIONS FOR FULL MOCK UP REQUIREMENTS.





	DESCRIPTION
·	PROPERTY LINE
	LIMIT OF WORK
РА	PLANTING AREA
AD / TD	AREA DRAIN / TRENCH DRAIN
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BL1	LIGHT BOLLARD
•	LIGHT POLE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	EXISTING TREELINE TO REMAIN

BIORETEI	NIION	PLANT SCHEDULE			PL
SYMBOL	QTY.	LATIN NAME	COMMON NAME	NOTES	SY
TREES		-	·		TF
NS	2	NYSSA SYLVATICA	BLACK GUM	TREE, SUN, MESIC-HYDRIC	A
QB	2	QUERCUS BICOLOR	SWAMP WHITE OAK	TREE, SUN/PARTIAL SUN, MESIC TO WET MESIC	A
QP	3	QUERCUS PALUSTRIS	PIN OAK	TREE, SUN, MESIC-HYDRIC	BF
					PS
SHRUBS					PS
CA		CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	SHRUB, SUN/PARTIAL SUN, MESIC TO WET MESIC	Pł
CS		CORNUS SERICEA	RED OSIER DOGWOOD	SHRUB, SUN/SHADE, MESIC-HYDRIC	T/
IG		ILEX GLABRA	INKBERRY	SHRUB, SUN/PARTIAL SUN, MESIC TO WET MESIC	SI
IV		ILEX VERTICILLATA	WINTERBERRY	SHRUB, SUN/PARTIAL SUN, MESIC TO WET MESIC	
LB		LINDERA BENZOIN	IN SPICEBUSH SHRUB, SUN, MESIC TO WET MESIC		
VD VIBURNUM DENTATUM		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	
HH		HEDERA HELIX	ENGLISH IVY	EVERGREEN GROUNDCOVER, SUN, MESIC	Sł
LC		LOTUS CORNICULATUS	BIRD'S-FOOT TREFOIL	GRASS, SUN, MESIC-XERIC	
		PANICUM VIRGATUM	SWITCH GRASS	GRASS, SUN/SHADE, MESIC	
PV					
PV RL		RUDBECKIA LACINIATA	GREEN-HEADED CONEFLOWER	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

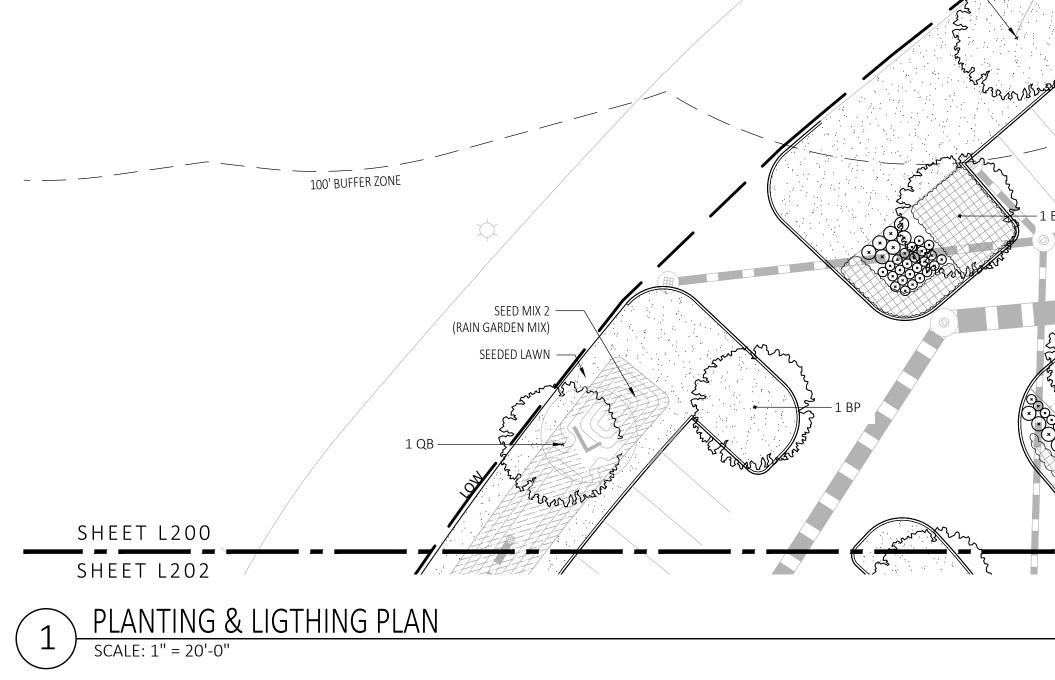
## PLANTING:

- 1. DURING CONSTRUCTION, PROTECT ALL EXISTING SITE FEATURES, STRUCTURES AND UTILITIES. 2. 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. 3. 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. 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.
- . 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.
- 10.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. 11. SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUNDCOVER: 6" MIN.; c.) TREES: SEE DETAIL;

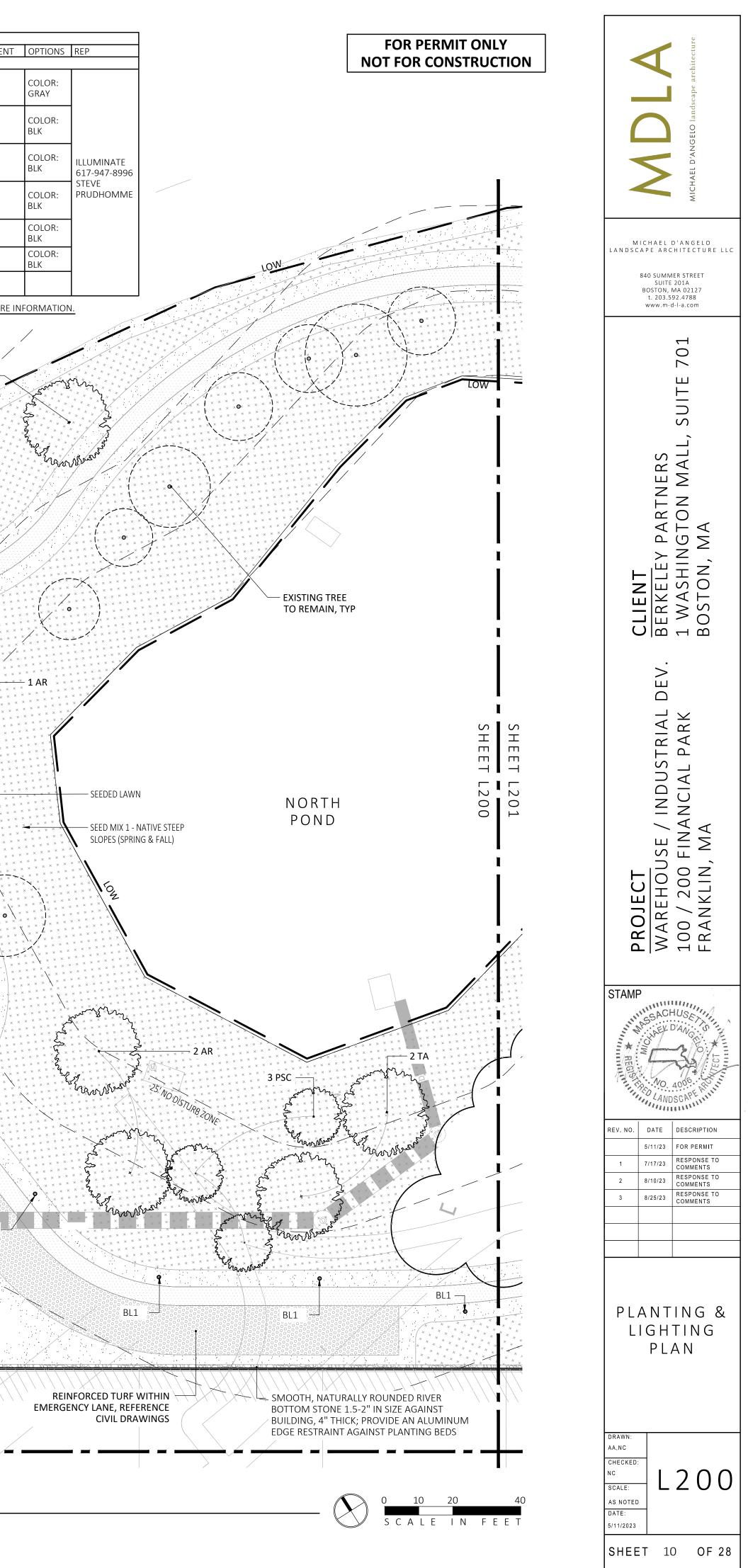
d.) SOD/SEED: 6"MIN. 12.PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER

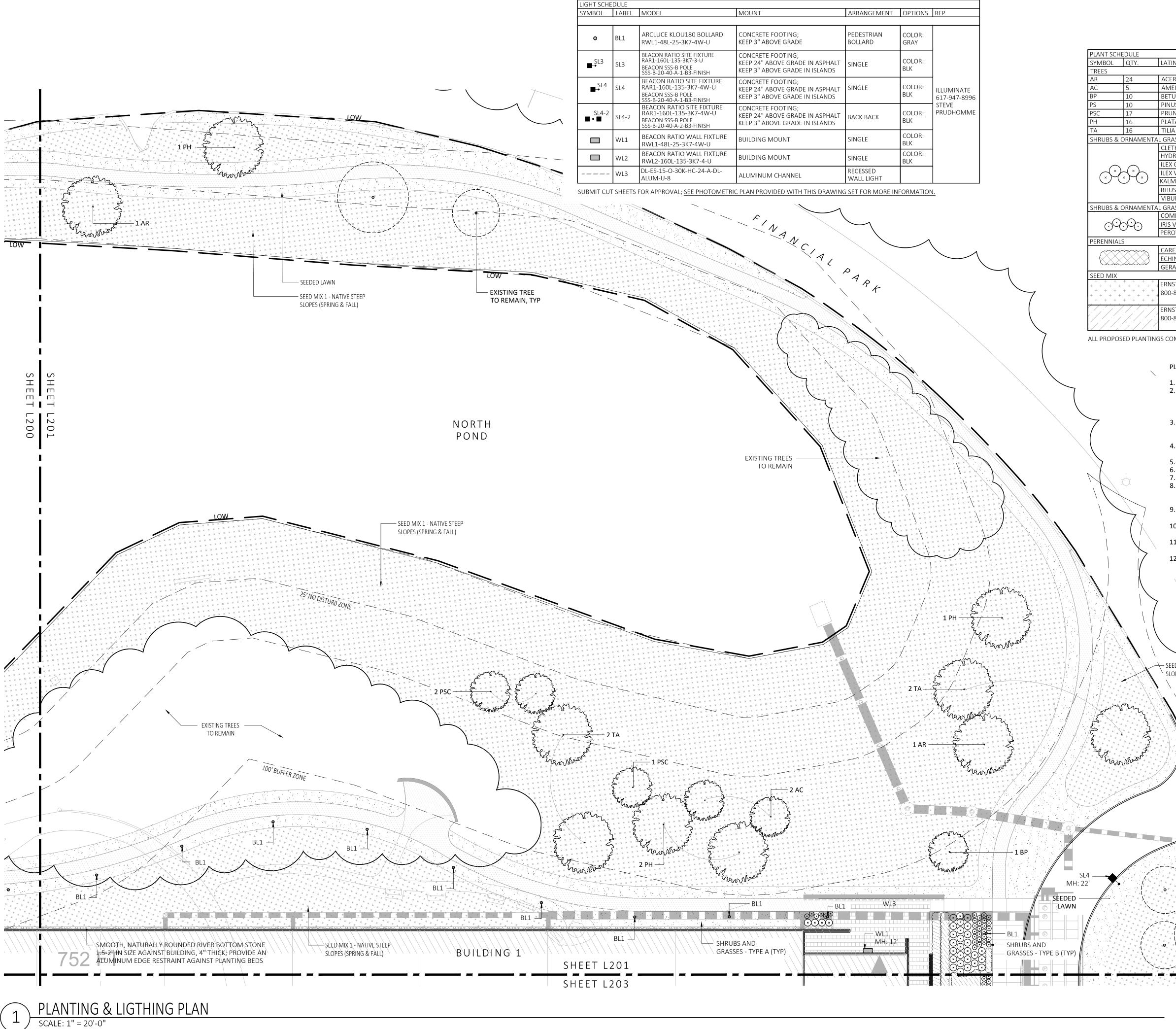
## GENERAL IRRIGATION NOTES:

- 1. 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. 2. IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO LOCATE THE NECESSARY PVC SLEEVING
- TO COMPLETE IRRIGATION PROGRAM. 3. IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE STARTING
- CONSTRUCTION. 4. TREES SHOULD BE ON A SEPARATE ZONE.
- 5. ALL TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUNDCOVER 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. 6. 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.
- 7. INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4' 8. 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. 9. THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK.
- 10. WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR.
- 11.MEP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION.
- 12. THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING SURFACES. 13.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 SCH				1			LIGHT SCHE	-			
SYMBOL TREES	QTY.			SIZE			SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT
AR AC BP	24 5 10	ACER RUBRUM AMELANCHIER CANADENSIS BETULA POPULIFOLIA	RED MAPLE SHADBLOW SERVICEBERRY GRAY BIRCH	3"-3.5" CAL. 8-10' HT 3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING B&B, MULTI-STEM B&B, MULTI-STEM		0	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD
PS PSC	10 10 17	PINUS STROBUS PRUNUS SEROTINA	EASTERN WHITE PINE BLACK CHERRY	3"-3.5" CAL. 3"-3.5" CAL. 3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING B&B, 6' CLEAR BRANCHING		SL3	SL3	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT	SINGLE
PH TA	16 16	PLATANUS OCCIDENTALIS TILIA AMERICANA	AMERICAN SYCAMORE BASSWOOD	3"-3.5" CAL. 3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING B&B, 6' CLEAR BRANCHING		SL4	SL4	BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U	KEEP 3" ABOVE GRADE IN ISLANDS CONCRETE FOOTING;	SINGLE
SHRUBS &	<u>k ORNAMENT</u>	AL GRASSES - TYPE A CLETHRA ALNIFOLIA HYDRANGEA QUERCIFOLIA	PEPPERBUSH OAK-LEAVED HYDRANGEA	5 GAL 3'-3.5' TALL	36" O.C. B&B 36" O.C. B&B				BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH	KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS CONCRETE FOOTING;	SINGLE
	$\lambda$	ILEX GLABRA ILEX VERTICILLATA	INKBERRY COMMON WINTERBERRY	3'-3.5' TALL 3'-3.5' TALL	36" O.C. B&B 36" O.C. B&B		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	KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	ВАСК ВАСК
	$\bigcirc$ $\bigcirc$	KALMIA LATIFOLIA RHUS AROMATICA	MOUNTAIN LAUREL FRAGRANT SUMAC	3' TALL 3'-3.5' TALL	36" O.C. B&B 36" O.C. B&B			WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U	BUILDING MOUNT	SINGLE
SHRUBS &	& ORNAMENT.	VIBURNUM DENTATUM AL GRASSES - TYPE B COMPTONIA PEREGRINA	ARROWWOOD SWEET-FERN	3'-3.5' TALL	36" O.C. B&B 24" O.C. CONTAINER			WL2	BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U	BUILDING MOUNT	SINGLE
××	$\gamma^{(x)}$	IRIS VERSICOLOR PEROVSKIA ATRIPLICIFOLIA	BLUE FLAG IRIS RUSSIAN SAGE	2 GAL 2.5'-3' TALL	24" O.C. CONTAINER 24" O.C. B&B			WL3	DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8	ALUMINUM CHANNEL	RECESSED WALL LIGHT
PERENNIA	<u>ALS</u>		PENNSYLVANIA SEDGE	1 GAL	18" O.C. CONTAINER		SUBMIT CUT	SHEETS	FOR APPROVAL; <u>SEE PHOTOMETR</u>	IC PLAN PROVIDED WITH THIS DRAWING	<u>S SET FOR MORE</u>
SEED MIX		ECHINACEA PURPUREA GERANIUM DALMATICUM	PURPLE CONEFLOWER CRANESBILL	1 GAL 1 GAL	18" O.C. CONTAINER 18" O.C. CONTAINER						/
+ + + + + + + + + + + + + + + + + + +	+ + + + + + + + + + + + + + + + + + +	+ ERNST SEEDS + 800-873-3321	ERNST MIX (ERNMX-181-1 & 181-2)	75 LB/ACRE	APPLY COVER CROP; FALL: GRAIN RYE, SPRING: OAT;						1 AR
+ + +	+ + + +	ERNST SEEDS	NATIVE STEEP SLOPE MIX ERNST MIX (ERNMX-180)	20 LB/ACRE	SEE SPEC SHEET APPLY COVER CROP OF GRAIN RYE; SEE SPEC SHEET	r		//			
		800-873-3321	RAIN GARDEN MIX		GRAIN RYE; SEE SPEC SHEET			//	Γ		
ALL PROPC	DSED PLANTIN	GS COME FROM THE BEST DEVELC	OPMENT PRACTICES GUIDEBOOK	С(§185-31.С.(К)							
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25'NO			SEEDED LAWN						Server Serve		
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ILE				
ΓY.	LATIN NAME	COMMON NAME	SIZE	NOTES
			<u> </u>	
ŀ	ACER RUBRUM	RED MAPLE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	8-10' HT	B&B, MULTI-STEM
	BETULA POPULIFOLIA	GRAY BIRCH	3"-3.5" CAL.	B&B, MULTI-STEM
	PINUS STROBUS	EASTERN WHITE PINE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
	PRUNUS SEROTINA	BLACK CHERRY	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
	TILIA AMERICANA	BASSWOOD	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
AMENTA	AL 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
$\sim$	ILEX VERTICILLATA	COMMON WINTERBERRY	3'-3.5' TALL	36" O.C. B&B
Ň	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
AMENTA	AL GRASSES - TYPE B	•	•	•
	COMPTONIA PEREGRINA	SWEET-FERN	2 GAL	24" O.C. CONTAINER
×	IRIS VERSICOLOR	BLUE FLAG IRIS	2 GAL	24" O.C. CONTAINER
$\bigcirc$	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	2.5'-3' TALL	24" O.C. B&B
	•	•		•
$\sim\sim$	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	1 GAL	18" O.C. CONTAINER
$\rightarrow$	ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL	18" O.C. CONTAINER
$\sim \sim$	GERANIUM DALMATICUM	CRANESBILL	1 GAL	18" O.C. CONTAINER
	•	•		•
+ + +	+ ERNST SEEDS	ERNST MIX	75 LB/ACRE	APPLY COVER CROP; FALL:
+ + +	800-873-3321	(ERNMX-181-1 & 181-2)		GRAIN RYE, SPRING: OAT;
- + +	]	NATIVE STEEP SLOPE MIX		SEE SPEC SHEET
. ; /	ERNST SEEDS	ERNST MIX	20 LB/ACRE	APPLY COVER CROP OF
	800-873-3321	(ERNMX-180)		GRAIN RYE; SEE SPEC SHEET
///	1	RAIN GARDEN MIX		

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

## 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.
- WHERE DISCREPANCIES IN QUANTITIES OCCOR, DRAWINGS SOPERCEDE 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. 9. MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR
- GERMINATION INHIBITING INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL. 10.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. 11. SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUNDCOVER: 6" MIN.; c.) TREES: SEE
- DETAIL; d.) SOD/SEED: 6"MIN. 12.PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER

GENERAL IRRIGATION NOTES:

1. 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.

FOR PERMIT ONLY

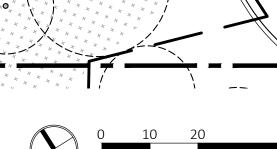
NOT FOR CONSTRUCTION

- 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 GROUNDCOVER 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.
- 6. 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.
- 7. INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4'
- 8. 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.
- 9. THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK.
- 10. WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR.
- 11.MEP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION.
- 12. THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING SURFACES.
- 13.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.

MICHAEL D'ANGELO MICHAEL D'ANGELO landscape architecture
840 SUMMER STREET SUITE 201A BOSTON, MA 02127 t. 203.592.4788 www.m-d-1-a.com
CLIENT BERKELEY PARTNERS 1 WASHINGTON MALL, SUITE 701 BOSTON, MA
PROJECT WAREHOUSE / INDUSTRIAL DEV. 100 / 200 FINANCIAL PARK FRANKLIN, MA
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PLANTING & LIGHTING PLAN
DRAWN: AA,NC CHECKED: NC SCALE: AS NOTED DATE: 5/11/2023

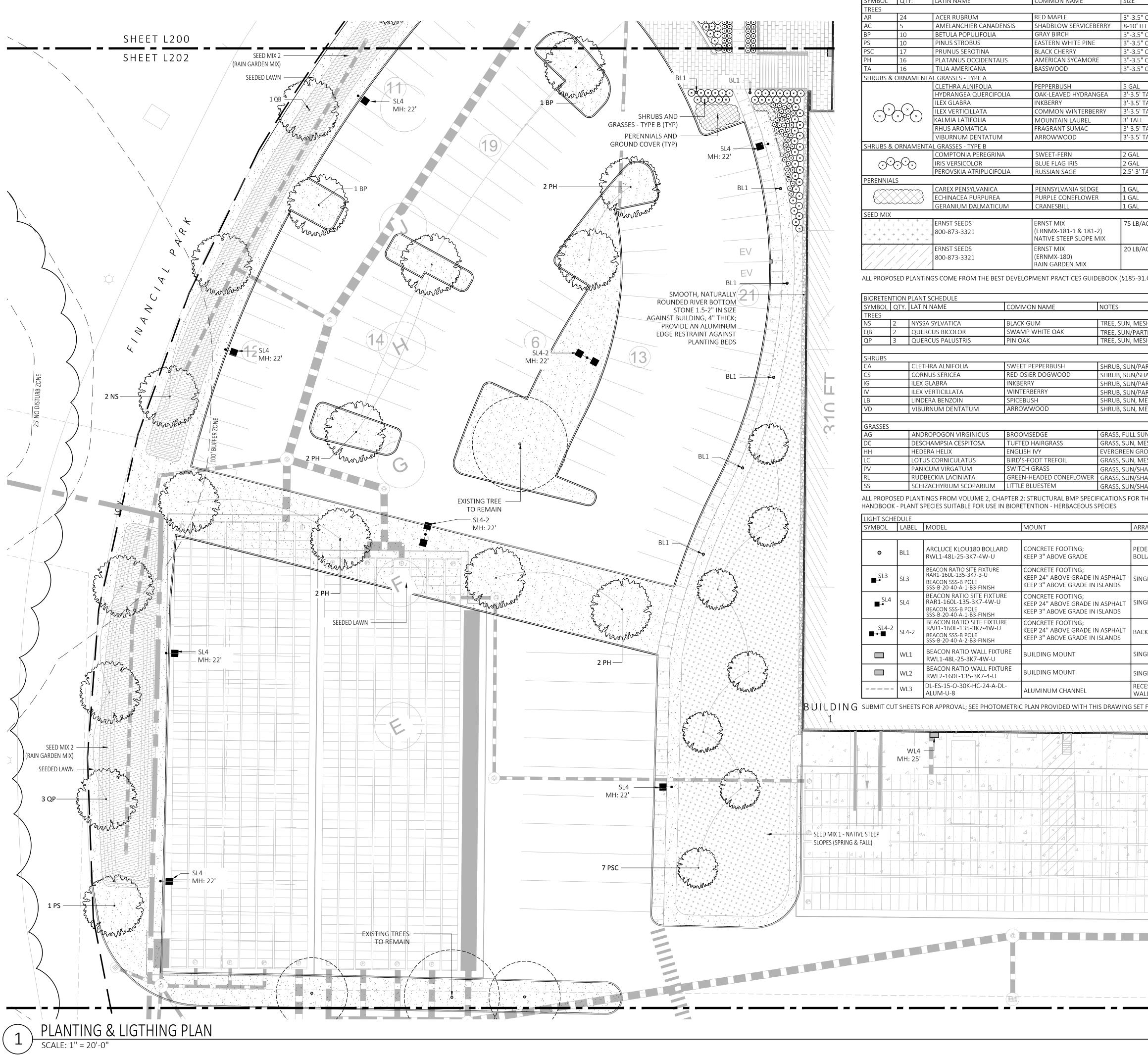
SEED MIX 1 - NATIVE STEEP SLOPES (SPRING & FALL)

- EXISTING TREES TO REMAIN, TYP



SCALE IN FEET

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PLANT SCHE	1					· '										
SYMBOL TREES	QTY.	LATIN NAME		COMMON NAME	S	IZE	NOTES									
AR	24	ACER RUBRUM				"-3.5" CAL.	B&B, 6' CLEAR BRANCHING									
AC BP	5 10	AMELANCHIER CANAD BETULA POPULIFOLIA	EINSIS	SHADBLOW SERVICE GRAY BIRCH		-10' HT "-3.5" CAL.	B&B, MULTI-STEM B&B, MULTI-STEM									
PS PSC	10 17	PINUS STROBUS PRUNUS SEROTINA		EASTERN WHITE PIN BLACK CHERRY		"-3.5" CAL. "-3.5" CAL.	B&B, 6' CLEAR E									
PH	16	PLATANUS OCCIDENTA	LIS	AMERICAN SYCAMC	RE 3	"-3.5" CAL. B&B, 6' CLEAR BRANCHIN										
TA SHRUBS & C	16 DRNAMEN	TILIA AMERICANA ITAL GRASSES - TYPE A		BASSWOOD	3	"-3.5" CAL.	B&B, 6' CLEAR E	BRANCHING								
		CLETHRA ALNIFOLIA		PEPPERBUSH		GAL	36" O.C. B&B									
$\bigcirc$	$\frown$	HYDRANGEA QUERCIFC	IIA	OAK-LEAVED HYDRA		'-3.5' TALL         36" O.C. B&B           '-3.5' TALL         36" O.C. B&B										
×	$\mathbf{x}$ $\mathbf{x}$ $\mathbf{x}$	ILEX VERTICILLATA KALMIA LATIFOLIA		COMMON WINTERE		'-3.5' TALL ' TALL	36" O.C. B&B 36" O.C. B&B									
$\bigcirc$		RHUS AROMATICA		FRAGRANT SUMAC	3	'-3.5' TALL										
HRUBS & C		VIBURNUM DENTATUN ITAL GRASSES - TYPE B	1	ARROWWOOD	3	'-3.5' TALL	36" O.C. B&B									
- 0.	- 0-	COMPTONIA PEREGRIN	A	SWEET-FERN		GAL	24" O.C. CONTA									
$\bigcirc$	X) (X)	IRIS VERSICOLOR PEROVSKIA ATRIPLICIFO	DLIA	BLUE FLAG IRIS RUSSIAN SAGE		GAL .5'-3' TALL	24" O.C. CONTA 24" O.C. B&B	AINER								
PERENNIALS	S															
		CAREX PENSYLVANICA ECHINACEA PURPUREA		PENNSYLVANIA SED PURPLE CONEFLOW		GAL GAL	18" O.C. CONTA 18" O.C. CONTA									
		GERANIUM DALMATIC	JM	CRANESBILL	1	GAL	18" O.C. CONTA	AINER								
SEED MIX + + + +	+ + + +	+ ERNST SEEDS		ERNST MIX		5 LB/ACRE	APPLY COVER C									
+ + + + + + + + + + + + + + + + + + + +	+ + + + + + + + + + + + + + + + + + + +	+ 800-873-3321		(ERNMX-181-1 & 18 NATIVE STEEP SLOPE			GRAIN RYE, SPR SEE SPEC SHEET	RING: OAT;								
		ERNST SEEDS		ERNST MIX		0 LB/ACRE	APPLY COVER C	ROP OF								
		800-873-3321		(ERNMX-180) RAIN GARDEN MIX			GRAIN RYE; SEE	SPEC SHEET								
LL PROPOS	ED PLANT	INGS COME FROM THE BES	T DEVEL	OPMENT PRACTICES GU	IDEBOOK (§1	185-31.C.(K)										
					(0)	. ,										
	ON PLAN	T SCHEDULE N NAME	COMM	ΛΟΝ ΝΑΜΕ	NOTES											
REES							<u></u>									
NS 2 QB 2		SA SYLVATICA RCUS BICOLOR	BLACK SWAN	i gum 1P white oak	TREE, SUI		MESIC TO WET	MESIC								
QP 3	QUE	RCUS PALUSTRIS	PIN OA	AK		N, MESIC-HYDRI										
HRUBS																
A S		HRA ALNIFOLIA		T PEPPERBUSH SIER DOGWOOD		UN/PARTIAL SUI	N, MESIC TO WE	T MESIC								
Ĵ	ILEX	GLABRA	INKBE	RRY	SHRUB, S	UN/PARTIAL SUI	N, MESIC TO WE									
/ B		VERTICILLATA	SPICE	ERBERRY BUSH		SHRUB, SUN/PARTIAL SUN, MESIC TO WET SHRUB, SUN, MESIC TO WET MESIC										
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GRASSES																
NG DC		ROPOGON VIRGINICUS		MSEDGE ED HAIRGRASS												
Н	HED	ERA HELIX	ENGLI	SH IVY	EVERGRE		/ER, SUN, MESIC	2								
C V		JS CORNICULATUS		G-FOOT TREFOIL		S, SUN, MESIC-XERIC S, SUN/SHADE, MESIC										
L		BECKIA LACINIATA ZACHYRIUM SCOPARIUM		N-HEADED CONEFLOWE	R GRASS, SU	JN/SHADE										
		INGS FROM VOLUME 2, CH	-			JN/SHADE										
		PECIES SUITABLE FOR USE I														
IGHT SCHE YMBOL	DULE LABEL	MODEL		MOUNT		ARRANGEME	NT OPTIONS	REP								
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0	BL1	ARCLUCE KLOU180 BOLLA		CONCRETE FOOTING;		PEDESTRIAN	COLOR:									
-		RWL1-48L-25-3K7-4W-U		KEEP 3" ABOVE GRADE		BOLLARD	GRAY	4								
SL3	SL3	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B POLE	1	CONCRETE FOOTING; KEEP 24" ABOVE GRADE		SINGLE	COLOR:									
		SSS-B-20-40-A-1-B3-FINISH		KEEP 3" ABOVE GRADE I	N ISLANDS		BLK	4								
SL4 ■→	SL4	BEACON RATIO SITE FIXTU RAR1-160L-135-3K7-4W-U	I	CONCRETE FOOTING; KEEP 24" ABOVE GRADE		SINGLE	COLOR:	ILLUMINATE								
		BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH BEACON RATIO SITE FIXTU		KEEP 3" ABOVE GRADE I	N ISLANDS		BLK	617-947-8996 STEVE								
SL4-2	SL4-2	BEACON RATIO SITE FIXTO RAR1-160L-135-3K7-4W-L BEACON SSS-B POLE		CONCRETE FOOTING; KEEP 24" ABOVE GRADE		ВАСК ВАСК	COLOR: BLK	PRUDHOMME								
		SSS-B-20-40-A-2-B3-FINISH		KEEP 3" ABOVE GRADE I	N ISLANDS			4								
	WL1	BEACON RATIO WALL FIXT RWL1-48L-25-3K7-4W-U	URE	BUILDING MOUNT		SINGLE	COLOR: BLK									
	WL2	BEACON RATIO WALL FIXT	URE	BUILDING MOUNT		SINGLE	COLOR:	1								
		RWL2-160L-135-3K7-4-U DL-ES-15-O-30K-HC-24-A-E	)L-			RECESSED	BLK	-								
		ALUM-U-8		ALUMINUM CHANNEL		WALL LIGHT										
	WL3		METRIC	PLAN PROVIDED WITH 1	HIS DRAWIN	IG SET FOR MOR	RE INFORMATION	N								
		OR APPROVAL; SEE PHOTC														
		OR APPROVAL; <u>SEE PHOTC</u>					$\langle \langle \langle \rangle \rangle \rangle \langle \langle \rangle \rangle \rangle \langle \langle \rangle \rangle \rangle \langle \langle \rangle \rangle \langle \rangle \langle \rangle \langle \rangle \langle \rangle \rangle \langle \rangle \langle \rangle \rangle \langle \rangle \langle \rangle \langle \rangle \langle \rangle \rangle \langle \rangle \langle \rangle \rangle \langle \rangle \langle \rangle \langle \rangle \rangle \langle \rangle \langle \rangle \langle \rangle \rangle \langle $									
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	SHEETS I	CR APPROVAL; <u>SEE PHOTC</u>					₩L4 —									
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	SHEETS I						WL4 MH: 25'									
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	SHEETS I						WL4 MH: 25'									

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- 2. 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.
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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.
- 10.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.
- 11. SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUNDCOVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOD/SEED: 6"MIN. 12.PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH
- GENERAL IRRIGATION NOTES:

ANCHORS, SIZE FOR CALIPER

- 1. 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.
- 2. IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO LOCATE THE NECESSARY PVC SLEEVING TO COMPLETE IRRIGATION PROGRAM.
- 3. IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE STARTING CONSTRUCTION. 4. TREES SHOULD BE ON A SEPARATE ZONE.
- 5. ALL TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUNDCOVER 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.
- 6. 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.
- 7. INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4'
- 8. 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.
- 9. THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK. 10. WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO
- WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR.
- 11.MEP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION. 12. THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF
- CONCRETE AND PAVING SURFACES. 13.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.

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PLANT SCH	EDULE				
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
ТА	16	TILIA AMERICANA	BASSWOOD	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
SHRUBS &	ORNAMENTA	AL 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
	$\sim$	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
	$\dot{\mathbf{v}}$	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 &	ORNAMENTA	AL GRASSES - TYPE B			
		COMPTONIA PEREGRINA	SWEET-FERN	2 GAL	24" O.C. CONTAINER
$(\times)^{(\times)}$	(x)	IRIS VERSICOLOR	BLUE FLAG IRIS	2 GAL	24" O.C. CONTAINER
	$\bigcirc$ $\bigcirc$	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	2.5'-3' TALL	24" O.C. B&B
PERENNIAL	S				
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	1 GAL	18" O.C. CONTAINER
		ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL	18" O.C. CONTAINER
		GERANIUM DALMATICUM	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)

LIGHT SCHE	DULE					
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
			-	_		
0	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
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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMME
	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		

SENSORS, AND CUT SHEETS FOR CONTROLLER SYSTEM AND COMPONENTS. INCLUDE ANY NECESSARY SLEEVING ON A DIAGRAM.

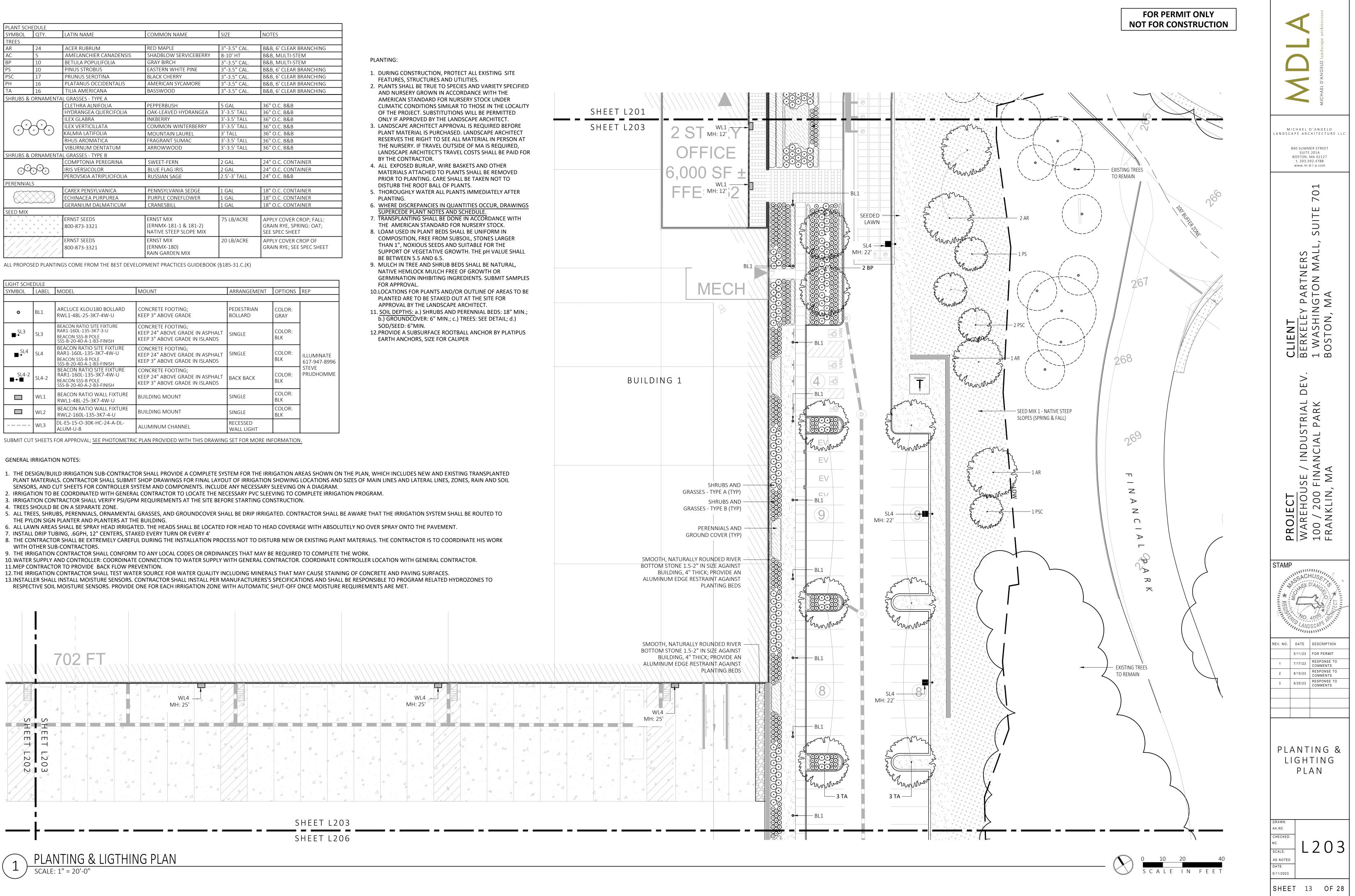
THE PYLON SIGN PLANTER AND PLANTERS AT THE BUILDING.

7. INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4'

WITH OTHER SUB-CONTRACTORS. 9. THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK.

11.MEP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION.

RESPECTIVE SOIL MOISTURE SENSORS. PROVIDE ONE FOR EACH IRRIGATION ZONE WITH AUTOMATIC SHUT-OFF ONCE MOISTURE REQUIREMENTS ARE MET.



PLANT SCH	EDULE				
SYMBOL	QTY.	LATIN NAME	COMMON NAME	SIZE	NOTES
TREES		-			
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BP	10	BETULA POPULIFOLIA	GRAY BIRCH	3"-3.5" CAL.	B&B, MULTI-STEM
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SHRUBS &	ORNAMENTA	AL GRASSES - TYPE A	•		·
		CLETHRA ALNIFOLIA	PEPPERBUSH	5 GAL	36" O.C. B&B
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		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 &	ORNAMENTA	AL GRASSES - TYPE B	-		-
		COMPTONIA PEREGRINA	SWEET-FERN	2 GAL	24" O.C. CONTAINER
()	\times \times	IRIS VERSICOLOR	BLUE FLAG IRIS	2 GAL	24" O.C. CONTAINER
	\bigcirc \bigcirc	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	2.5'-3' TALL	24" O.C. B&B
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SEED MIX					
+ + + + + + + + + + + + + + + + + + +	+ $+$ $+$ $+$ $+$	+ ERNST SEEDS	ERNST MIX	75 LB/ACRE	APPLY COVER CROP; FALL:
+ + + + + + + + + + + + + + + + + + +	+ + + + + + + + + + + + + + + + + + + +	+ 800-873-3321	(ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX		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)

LIGHT SCHE	DULE					
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
		-				
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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	
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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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMM
	WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
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	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.

GENERAL IRRIGATION NOTES:

1. 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.

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4. TREES SHOULD BE ON A SEPARATE ZONE.

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PLANTING:

- FEATURES, STRUCTURES AND UTILITIES. PERMITTED ONLY IF APPROVED BY THE LANDSCAPE ARCHITECT.
- DISTURB THE ROOT BALL OF PLANTS.
- PLANTING.
- BE BETWEEN 5.5 AND 6.5.
- NATIVE HEMLOCK MULCH FREE OF GROWTH OR SAMPLES FOR APPROVAL.
- d.) SOD/SEED: 6"MIN.

1. DURING CONSTRUCTION, PROTECT ALL EXISTING SITE 2. 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

3. 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. 4. ALL EXPOSED BURLAP, WIRE BASKETS AND OTHER MATERIALS ATTACHED TO PLANTS SHALL BE REMOVED PRIOR TO PLANTING. CARE SHALL BE TAKEN NOT TO 5. THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER

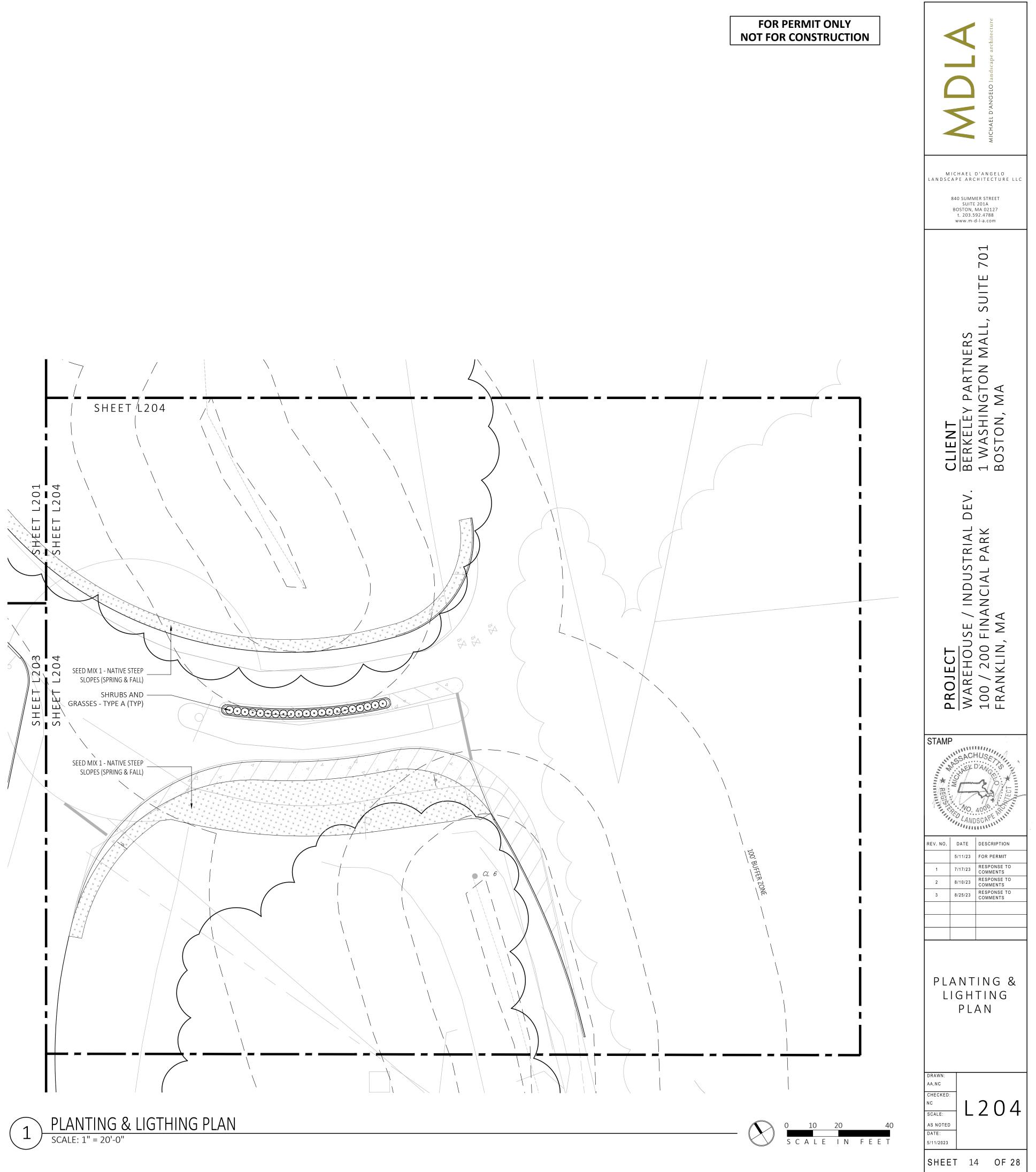
#### 6. WHERE DISCREPANCIES IN QUANTITIES OCCUR,

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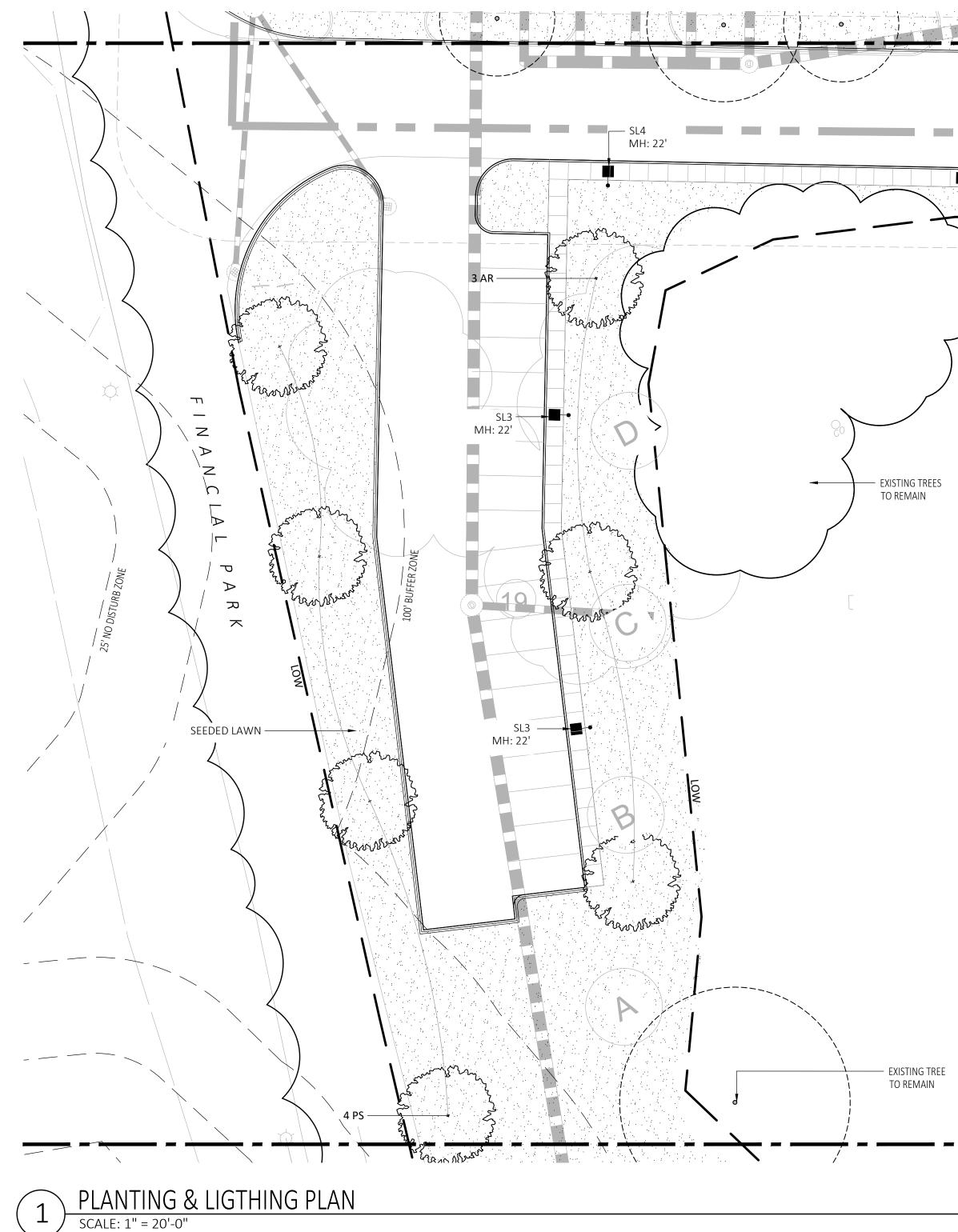


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GENERAL IRRIGATION NOTES:

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- 12. THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING SURFACES.
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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 &	ORNAMENT	AL 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
$\sim$	$\sim$	ILEX GLABRA	INKBERRY	3'-3.5' TALL	36" O.C. B&B
$\bigwedge^{\times}$	$(\times)$	ILEX VERTICILLATA	COMMON WINTERBERRY	3'-3.5' TALL	36" O.C. B&B
Ň	×) ×	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 &	ORNAMENT	AL GRASSES - TYPE B	·		•
	-	COMPTONIA PEREGRINA	SWEET-FERN	2 GAL	24" O.C. CONTAINER
$(x)^{(x)}$	$\lambda \land \lambda$	IRIS VERSICOLOR	BLUE FLAG IRIS	2 GAL	24" O.C. CONTAINER
$\cup$	$\bigcirc$ $\bigcirc$	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	2.5'-3' TALL	24" O.C. B&B
PERENNIA	LS	*			
$\sim$	~~~~~	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	1 GAL	18" O.C. CONTAINER
	$\times$	ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL	18" O.C. CONTAINER
		GERANIUM DALMATICUM	CRANESBILL	1 GAL	18" O.C. CONTAINER
SEED MIX					
+ + + + + + + + + + + + + + + + + + +	$\begin{array}{c} + \\ + \\ + \\ + \\ + \\ \end{array}$	+ ERNST SEEDS	ERNST MIX	75 LB/ACRE	APPLY COVER CROP; FALL:
+ + +	+ + + +	800-873-3321	(ERNMX-181-1 & 181-2)		GRAIN RYE, SPRING: OAT;
+ + +	+ + + +	]	NATIVE STEEP SLOPE MIX		SEE SPEC SHEET
		ERNST SEEDS	ERNST MIX	20 LB/ACRE	APPLY COVER CROP OF
	i     ;	800-873-3321	(ERNMX-180)		GRAIN RYE; SEE SPEC SHEET
///		1	RAIN GARDEN MIX		

LIGHT SCHE	DULE	
SYMBOL	LABEL	MODEL
o	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U
SL3 ∎-∎	SL3	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH
SL4 ∎⊦•	SL4	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH
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
	WL1	BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U
	WL2	BEACON RATIO WALL FIXTUR RWL2-160L-135-3K7-4-U
	WL3	DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8

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

ALL PROPOSED PLANTINGS COME FROM THE BEST DEVELOPMENT PRACTICES GUIDEBOOK (§185-31.C.(K) SHEET L202 SHEET L205 - SL4 MH: 22' D

TO REMAIN

- EXISTING TREES

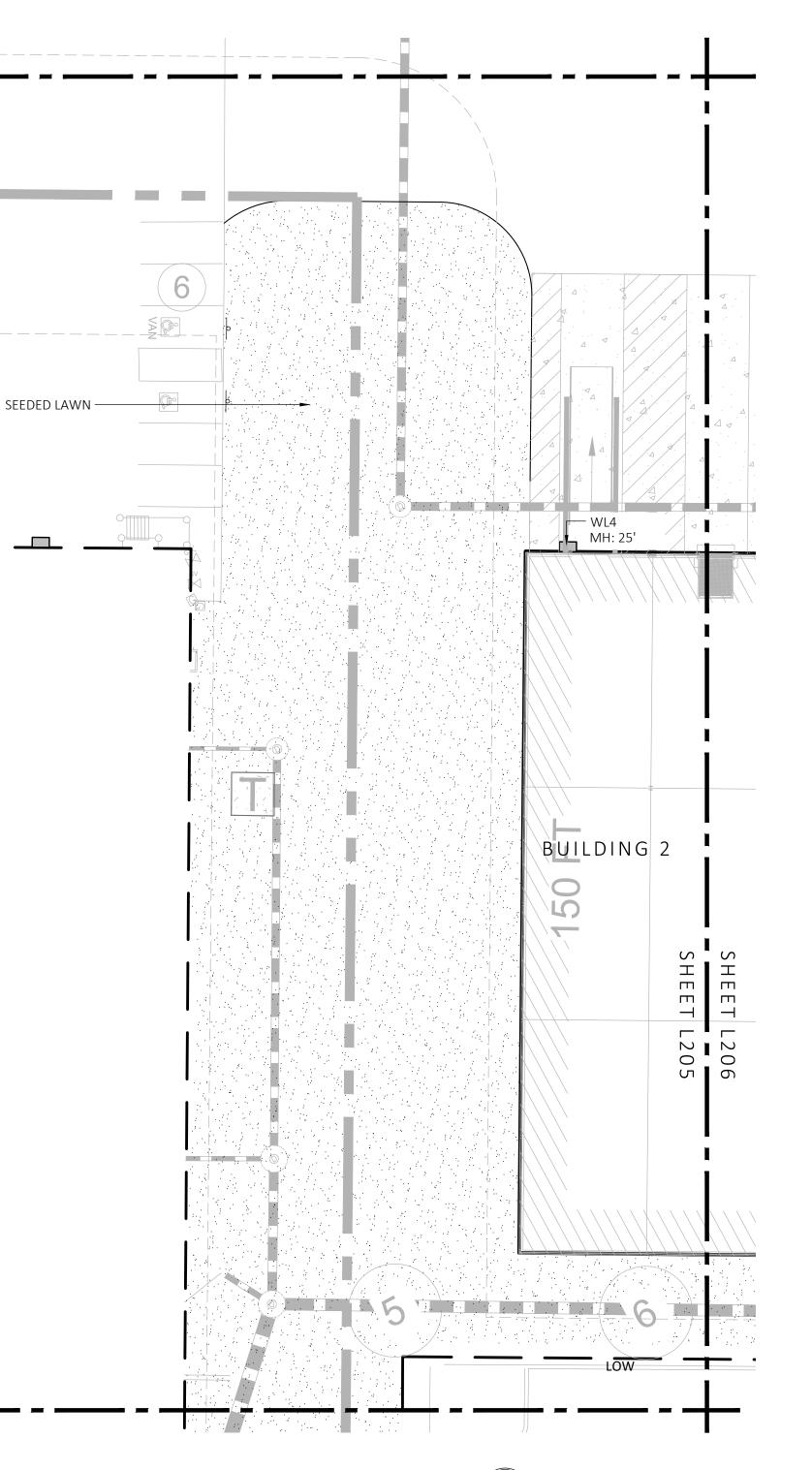
С EXISTING BLDG 3 200 FINBUILDING & L PARK (CHAMPAGNE LOGISTICS)^B 65,000 GSF ±

A

SHEET L205 SHEET L207

EXISTING TREE TO REMAIN

				FOR PERMIT ONLY NOT FOR CONSTRUCTION	]
	MOUNT	ARRANGEMENT	OPTIONS	REP	
Bollard W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY		
KTURE U NISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK		
FIXTURE 4W-U NISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	ILLUMINATE 617-947-8996	
FIXTURE -4W-U NISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMME	
L FIXTURE W-U	BUILDING MOUNT	SINGLE	COLOR: BLK		
L FIXTURE -4-U	BUILDING MOUNT	SINGLE	COLOR: BLK		
24-A-DL-	ALUMINUM CHANNEL	RECESSED WALL LIGHT			





 $\bigwedge$ 

0 10 20 40 S C A L E I N F E E T

PLANT SCH	IEDULE				
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SEED MIX					
+ + + + -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	+ ERNST SEEDS	ERNST MIX	75 LB/ACRE	APPLY COVER CROP; FALL:
+ + + + + + + + + + + + + + + + + + +	+ + + + + + + + + + + + + + + + + + +	# 800-873-3321	(ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX		GRAIN RYE, SPRING: OAT; SEE SPEC SHEET
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LIGHT SCHE						
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
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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMME
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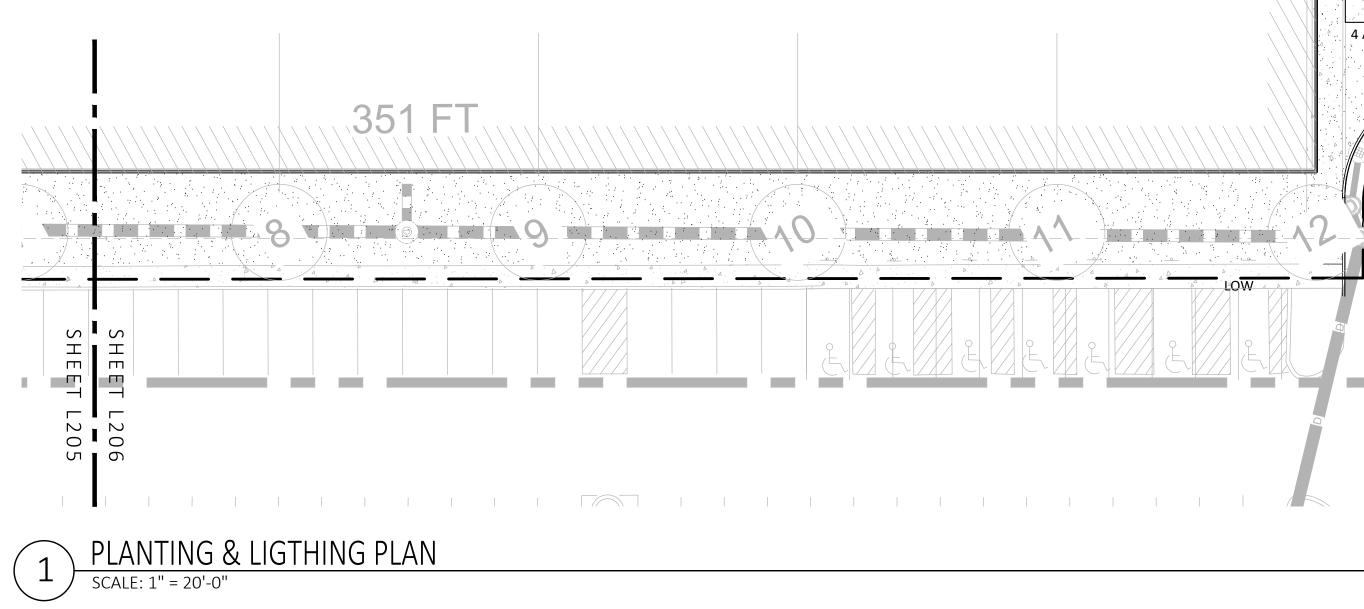
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1. DURING CONSTRUCTION, PROTECT ALL EXISTING SITE FEATURES, STRUCTURES AND UTILITIES. 2. PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED AND NURSERY GROWN IN

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

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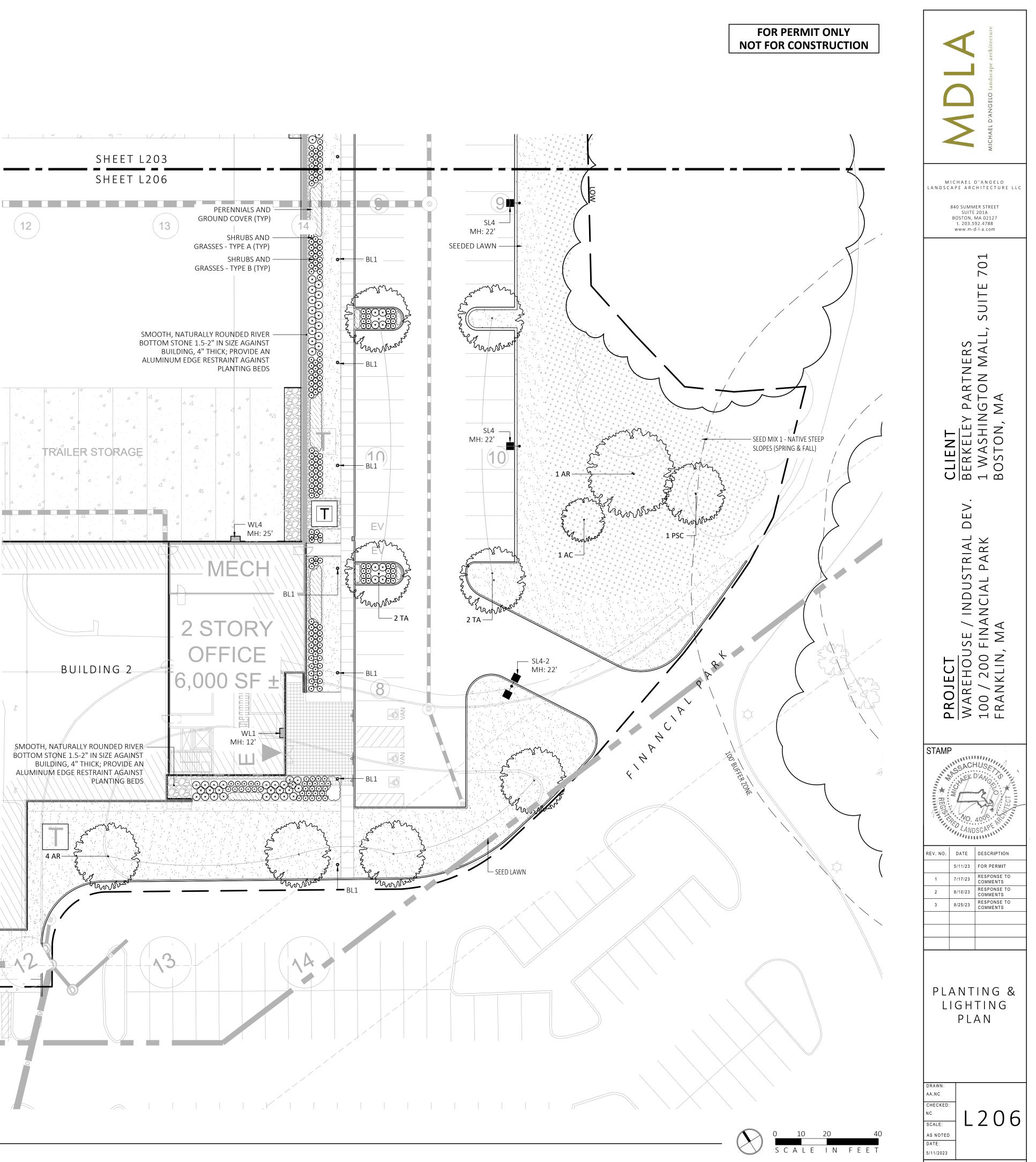
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7. TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN STANDARD

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11. SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUNDCOVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOD/SEED: 6"MIN. 12.PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER

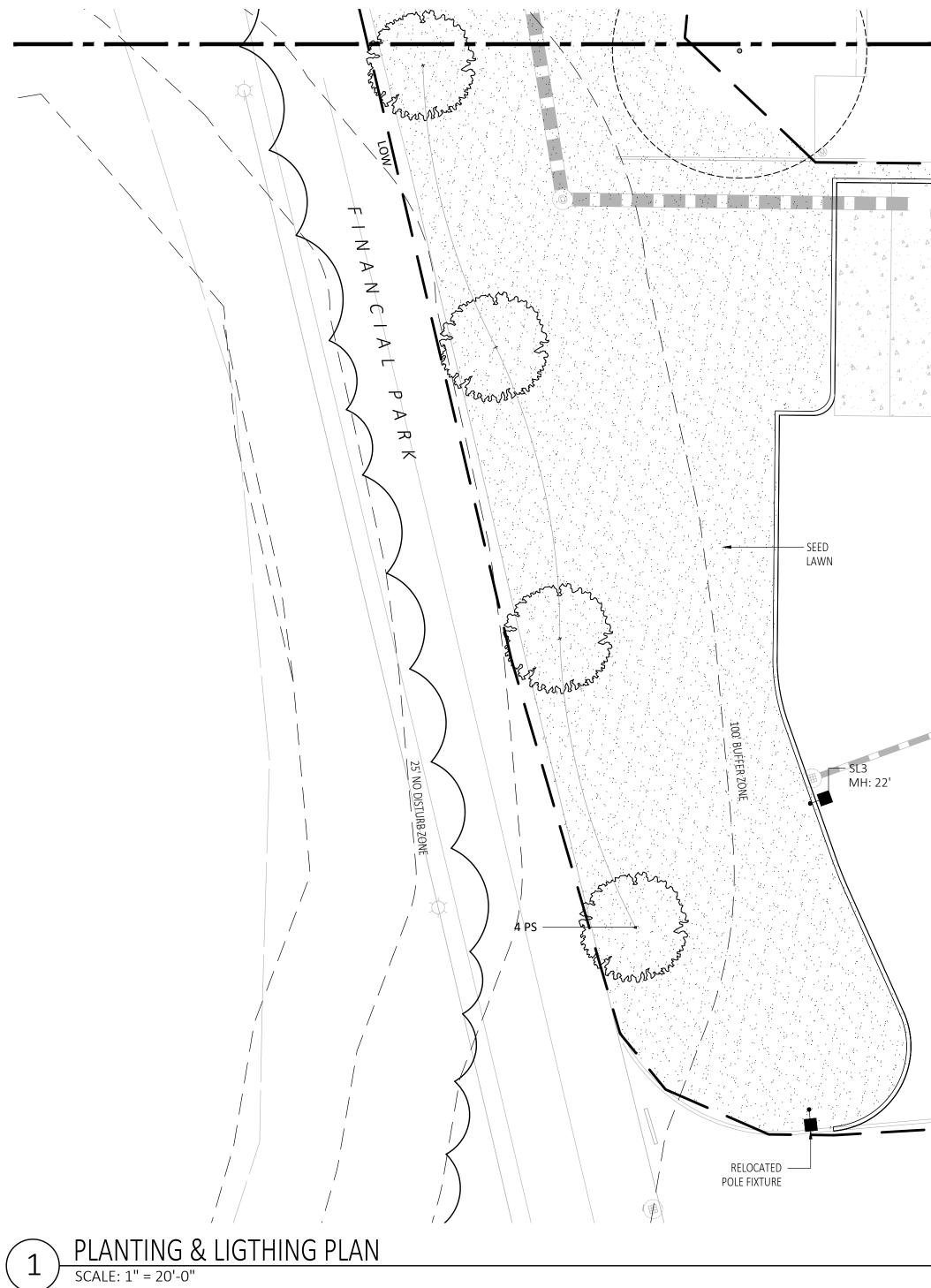


SHEET 16 OF 28

#### PLANTING:

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	$\sim$	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
$\bigvee$	$\overset{\times}{\bigcirc}$	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 &	ORNAMENT	AL GRASSES - TYPE B			
		COMPTONIA PEREGRINA	SWEET-FERN	2 GAL	24" O.C. CONTAINER
$(x)^{(x)}$	(x)	IRIS VERSICOLOR	BLUE FLAG IRIS	2 GAL	24" O.C. CONTAINER
		PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	2.5'-3' TALL	24" O.C. B&B
PERENNIA	LS				
$\sim$	www.	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	1 GAL	18" O.C. CONTAINER
		ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL	18" O.C. CONTAINER
		GERANIUM DALMATICUM	CRANESBILL	1 GAL	18" O.C. CONTAINER
SEED MIX					
+ + + + +	+ + + +	+ ERNST SEEDS	ERNST MIX	75 LB/ACRE	APPLY COVER CROP; FALL:
+ + + + + + + + + + + + + + + + + + +	+ + + + + + + + + + + + + + + + + + +	800-873-3321	(ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX		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

SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
			T	1	1	1
0	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 617-947-899
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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMN
	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

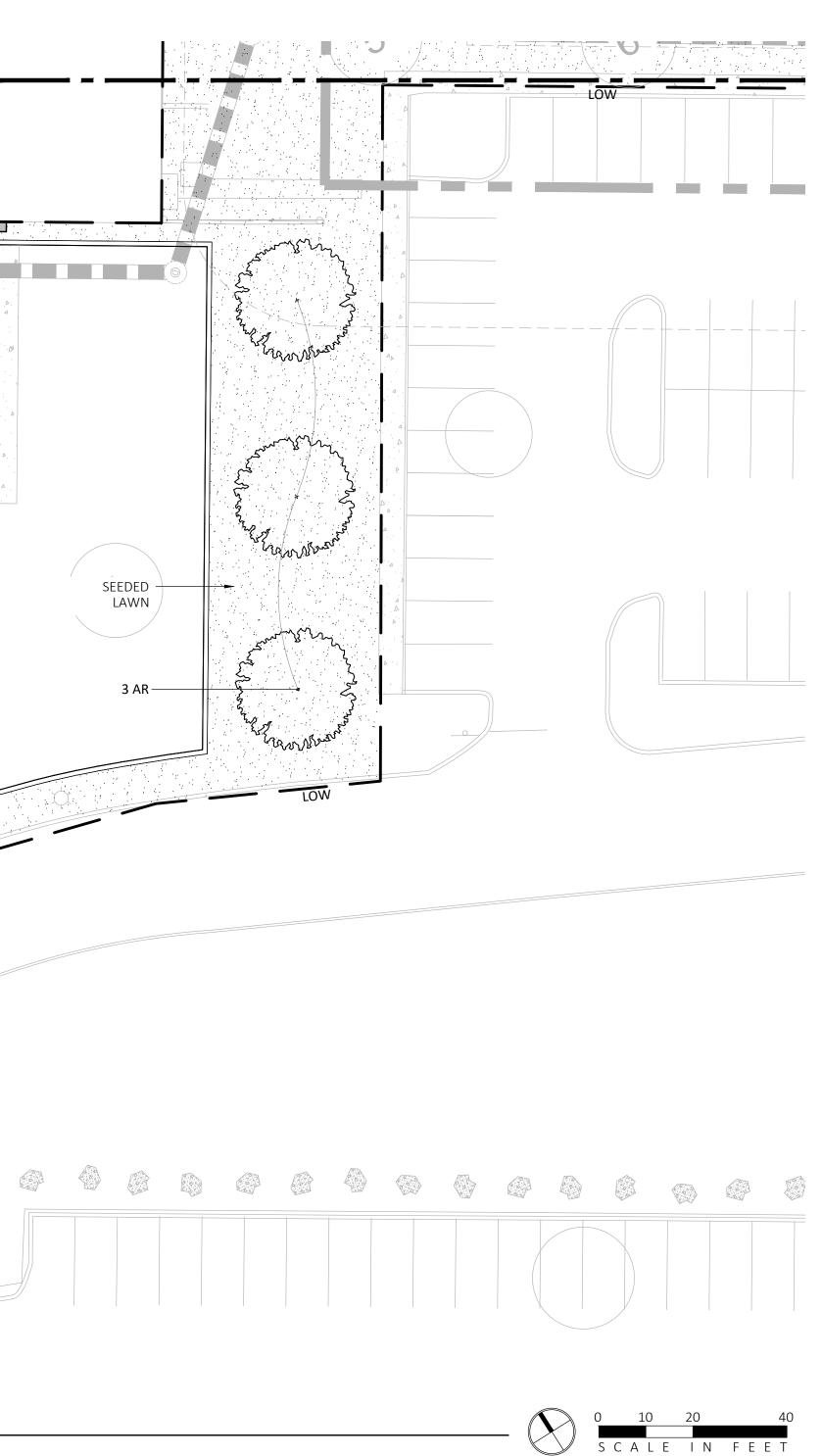
ALL PROPOSED PLANTINGS COME FROM THE BEST DEVELOPMENT PRACTICES GUIDEBOOK (§185-31.C.(K)

SHEET L205 SHEET L207

# WL4 MH: 25' WL4 MH: 25' 2 3 SL4 -MH: 22' SL4 _____ MH: 22' ____ 0 FINANCIAL EXISTING TREES — TO REMAIN o.

### BUILDING 3

FOR PERMIT ONLY
NOT FOR CONSTRUCTION



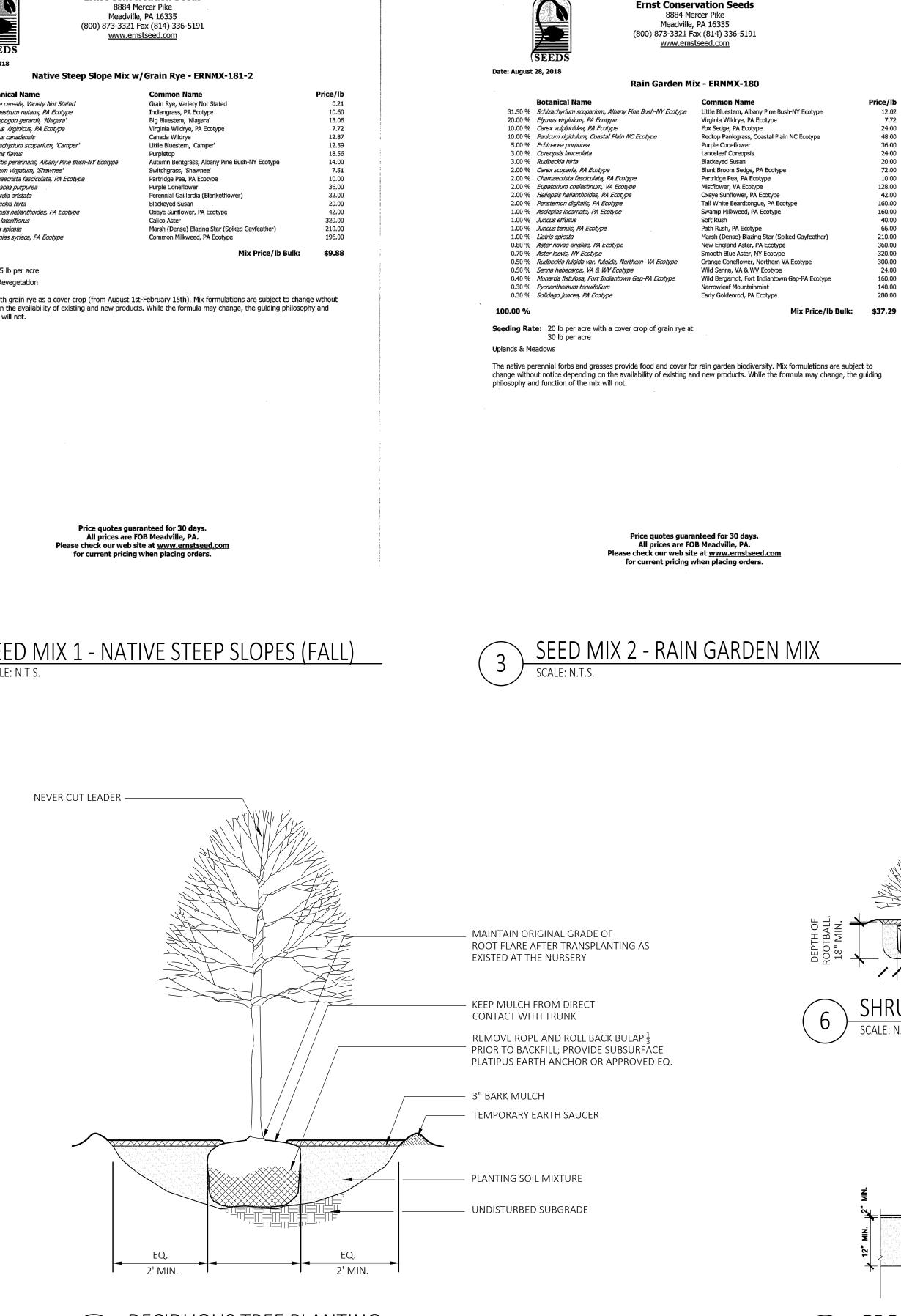
 $\mathbf{N}$ 



SEEDS Date: August 28, 2018	Meadville, (800) 873-3321 Fa <u>www.erns</u>	ax (814) 336-5191 <u>itseed.com</u>	Sprinez			Date: Augusl
N	ative Steep Slope Mix w/		(-181-1			
Botanical Name 40.00 % Avena sativa, Variet 20.40 % Sorghastrum nutans	y Not Stated	Common Name Oats, Variety Not Stated Indiangrass, NY4 Ecotype		Price/lb 0.22 12.90		40.00 % 20.40 % 8.10 %
8.10 % Andropogon gerardi 7.50 % Elymus virginicus, F 5.20 % Elymus canadensis		Big Bluestem, 'Nlagara' Virginia Wildrye, PA Ecotype Canada Wildrye	1	13.06 7.72 12.87		7.50 % 5.20 % 4.50 %
3.70 % Tridens flavus, Fort	arlum, Fort Indiantown Gap-PA Ecotype Indiantown Gap-PA Ecotype Albany Pine Bush-NY Ecotype	<ul> <li>Little Bluestern, Fort Indianto</li> <li>Purpletop, Fort Indiantown O</li> <li>Autumn Bentgrass, Albany P</li> </ul>	Gap-PA Ecotype	12.00 18.78 14.00	1. 	3.70 % 3.00 %
2.30 % Panicum virgatum, 1.10 % Chamaecrista fascio 1.00 % Echinacea purpurea	'Shawnee' ulata, PA Ecotype	Switchgrass, 'Shawnee' Partridge Pea, PA Ecotype Purple Coneflower		7.51 10.00 36.00	and the second se	2.30 % 1.10 % 1.00 %
0.80 % <i>Gaillardia aristata</i> 0.80 % <i>Rudbeckia hirta</i> 0.70 % <i>Heliopsis helianthol</i> i		Perennial Gaillardia (Blankett Blackeyed Susan Oxeye Sunflower, PA Ecotyp		32.00 20.00 42.00		0.80 % 0.80 % 0.70 %
0.40 % Aster novae-angliae 0.20 % Asclepias syriaca, P.	, PA Ecotype	New England Aster, PA Ecoty Common Milkweed, PA Ecoty	уре уре	360.00 196.00		0.40 % 0.30 % 0.20 %
0.20 % <i>Liatris spicata</i> 0.10 % <i>Penstemon digitalis</i>		Marsh (Dense) Blazing Star ( Tall White Beardtongue		210.00 160.00		100.00 %
100.00 % Seeding Rate: 75 lb per acre			Mix Price/Ib Bulk:	\$10.45		Seeding Rat Erosion Conti
Erosion Control & Revegetation Use this formula with grain oats	s as a cover crop in the spring and	d summer (until September	¹ 1st). Mix formulations are	subject to		Use this form notice depen function of th
change without notice dependir philosophy and function of the	ng on the availability of existing an mix will not.	nd new products. While the	e formula may change, the	guiding		
	Price quotes guara All prices are FO Please check our web sit	)B Meadville, PA.	m			
	for current pricing v	when placing orders.				
1 SEE	D MIX 1 - NA	ATIVE STE	<u>EP SLOPE</u>	<u>s (spr</u>	<u>ING)</u>	2)-
		<u>ATIVE STE</u>	<u>EP SLOPE</u>	<u>S (SPR</u>	<u>ING)</u>	
	N.T.S.	Α_	<u>EP SLOPE</u>		ING)	
	N.T.S.	ATIVE STE	<u>EP SLOPE</u>	N	NEVER CUT LEADER	
	N.T.S.	Α_	<u>EP SLOPE</u>	N S		STED BY THE
	N.T.S.	Α_	<u>EP SLOPE</u>	N N L	NEVER CUT LEADER	STED BY THE
	N.T.S.	Α_	<u>EP SLOPE</u>	N S L N R	NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT	STED BY THE RADE OF NSPLANTING AS
	N.T.S.	Α_	<u>EP SLOPE</u>	N S L N R	NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT MAINTAIN ORIGINAL GF ROOT FLARE AFTER TRA	STED BY THE RADE OF NSPLANTING AS
	N.T.S.	Α_	<u>EP SLOPE</u>	N S L R E	NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT MAINTAIN ORIGINAL GF COOT FLARE AFTER TRA EXISTED AT THE NURSE	STED BY THE RADE OF INSPLANTING AS RY
	N.T.S.	A Company	<u>EP SLOPE</u>	N S L R E	NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT MAINTAIN ORIGINAL GF ROOT FLARE AFTER TRA EXISTED AT THE NURSE	STED BY THE RADE OF INSPLANTING AS RY
	N.T.S.	A A A A A A A A A A A A A A A A A A A	<u>EP SLOPE</u>	N S L R E	NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT MAINTAIN ORIGINAL GF COOT FLARE AFTER TRA EXISTED AT THE NURSE KEEP MULCH FROM DIF CONTACT WITH TRUNK	STED BY THE RADE OF INSPLANTING AS RY
	N.T.S.		<u>EP SLOPE</u>	N S L N R E 	NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT MAINTAIN ORIGINAL GF ROOT FLARE AFTER TRA XISTED AT THE NURSE KEEP MULCH FROM DIF CONTACT WITH TRUNK REMOVE ROPE AND RO BACK BULAP $\frac{1}{3}$ PRIOR	STED BY THE RADE OF INSPLANTING AS RY
	N.T.S.	A A A A A A A A A A A A A A A A A A A	EP SLOPE	N S L N R E K C 	NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT MAINTAIN ORIGINAL GF ROOT FLARE AFTER TRA EXISTED AT THE NURSE KEEP MULCH FROM DIF CONTACT WITH TRUNK REMOVE ROPE AND RO BACK BULAP ¹ / ₃ PRIOR TO BACKFILL	STED BY THE RADE OF INSPLANTING AS RY
	N.T.S.			N S L 	NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT MAINTAIN ORIGINAL GF ROOT FLARE AFTER TRA EXISTED AT THE NURSE KEEP MULCH FROM DIF CONTACT WITH TRUNK REMOVE ROPE AND RO BACK BULAP $\frac{1}{3}$ PRIOR TO BACKFILL 3" BARK MULCH	SSTED BY THE RADE OF INSPLANTING AS RY RECT
	N.T.S.		EP SLOPE	N S L 	NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT MAINTAIN ORIGINAL GF ROOT FLARE AFTER TRA EXISTED AT THE NURSE KEEP MULCH FROM DIF CONTACT WITH TRUNK REMOVE ROPE AND RO BACK BULAP ¹ / ₃ PRIOR TO BACKFILL	SSTED BY THE RADE OF INSPLANTING AS RY RECT
	N.T.S.		EP SLOPE	N S L 	NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT MAINTAIN ORIGINAL GF ROOT FLARE AFTER TRA EXISTED AT THE NURSE KEEP MULCH FROM DIF CONTACT WITH TRUNK REMOVE ROPE AND RO BACK BULAP $\frac{1}{3}$ PRIOR TO BACKFILL 3" BARK MULCH	SSTED BY THE RADE OF INSPLANTING AS RY RECT
	N.T.S.				NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT MAINTAIN ORIGINAL GF ROOT FLARE AFTER TRA EXISTED AT THE NURSE KEEP MULCH FROM DIF CONTACT WITH TRUNK REMOVE ROPE AND RO BACK BULAP $\frac{1}{3}$ PRIOR TO BACKFILL 3" BARK MULCH	STED BY THE RADE OF INSPLANTING AS RY RECT ULUUCER
	N.T.S.			N S L N R E K C C 1	NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT MAINTAIN ORIGINAL GF ROOT FLARE AFTER TRA EXISTED AT THE NURSE KEEP MULCH FROM DIF CONTACT WITH TRUNK REMOVE ROPE AND RO BACK BULAP $\frac{1}{3}$ PRIOR TO BACKFILL B'' BARK MULCH TEMPORARY EARTH SA PLANTING SOIL MIXTUI	STED BY THE ADE OF NSPLANTING AS RY RECT ULU UCER
	N.T.S.			N S L N R E K C C 1	NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT MAINTAIN ORIGINAL GE COOT FLARE AFTER TRA EXISTED AT THE NURSE KEEP MULCH FROM DIE CONTACT WITH TRUNK REMOVE ROPE AND RO BACK BULAP $\frac{1}{3}$ PRIOR TO BACKFILL 3" BARK MULCH TEMPORARY EARTH SA	STED BY THE ADE OF NSPLANTING AS RY RECT ULU UCER
SCALE: I	N.T.S.		EP SLOPE	N S L N R E K C C 1	NEVER CUT LEADER STAKE TREES AS REQUE ANDSCAPE ARCHITECT MAINTAIN ORIGINAL GF ROOT FLARE AFTER TRA EXISTED AT THE NURSE KEEP MULCH FROM DIF CONTACT WITH TRUNK REMOVE ROPE AND RO BACK BULAP $\frac{1}{3}$ PRIOR TO BACKFILL B'' BARK MULCH TEMPORARY EARTH SA PLANTING SOIL MIXTUI	STED BY THE ADE OF NSPLANTING AS RY RECT ULU UCER

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SCALE: N.T.S.



RNS;

Fall

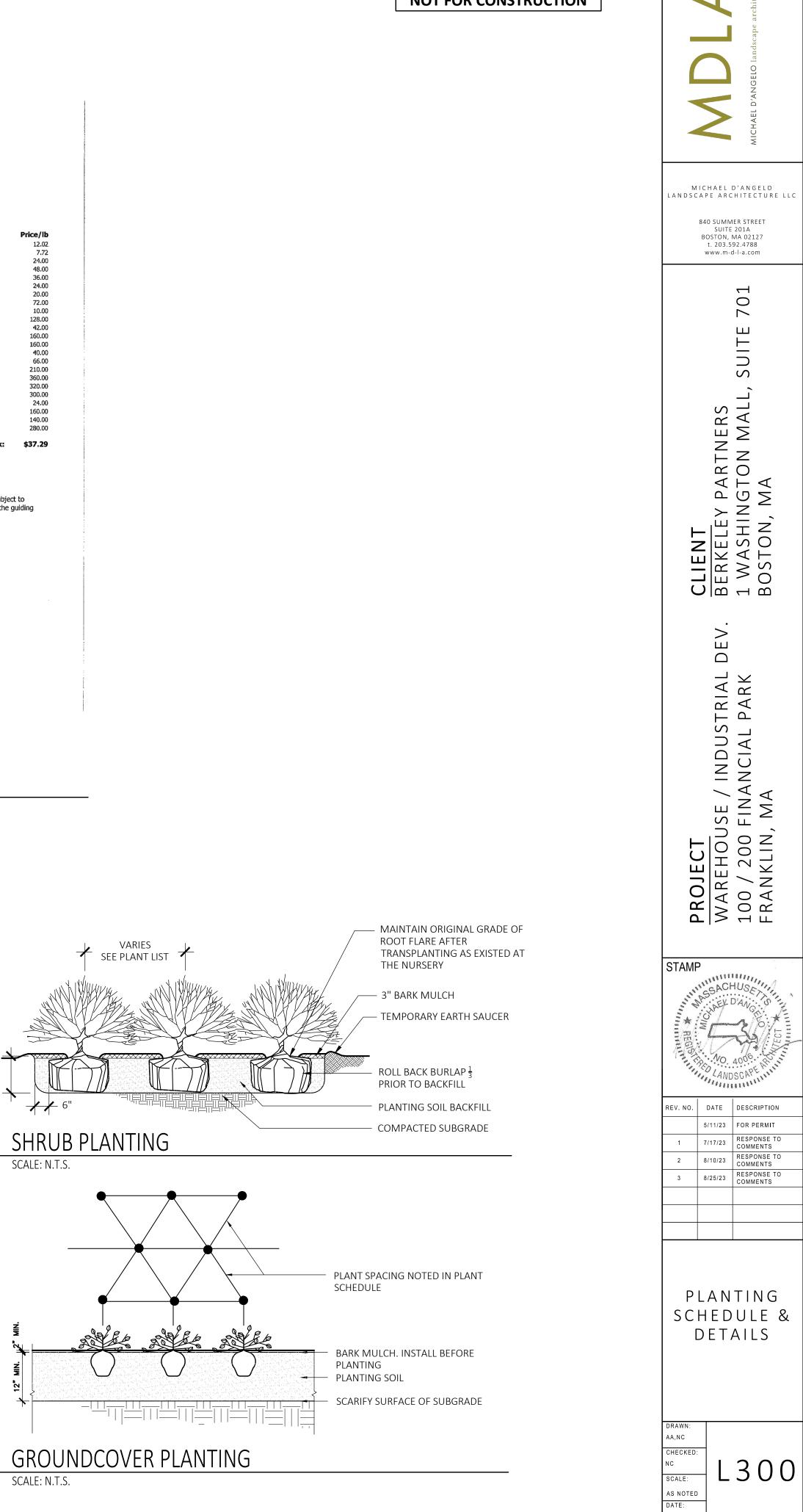
Ernst Conservation Seeds

DECIDUOUS TREE PLANTING SCALE: N.T.S.

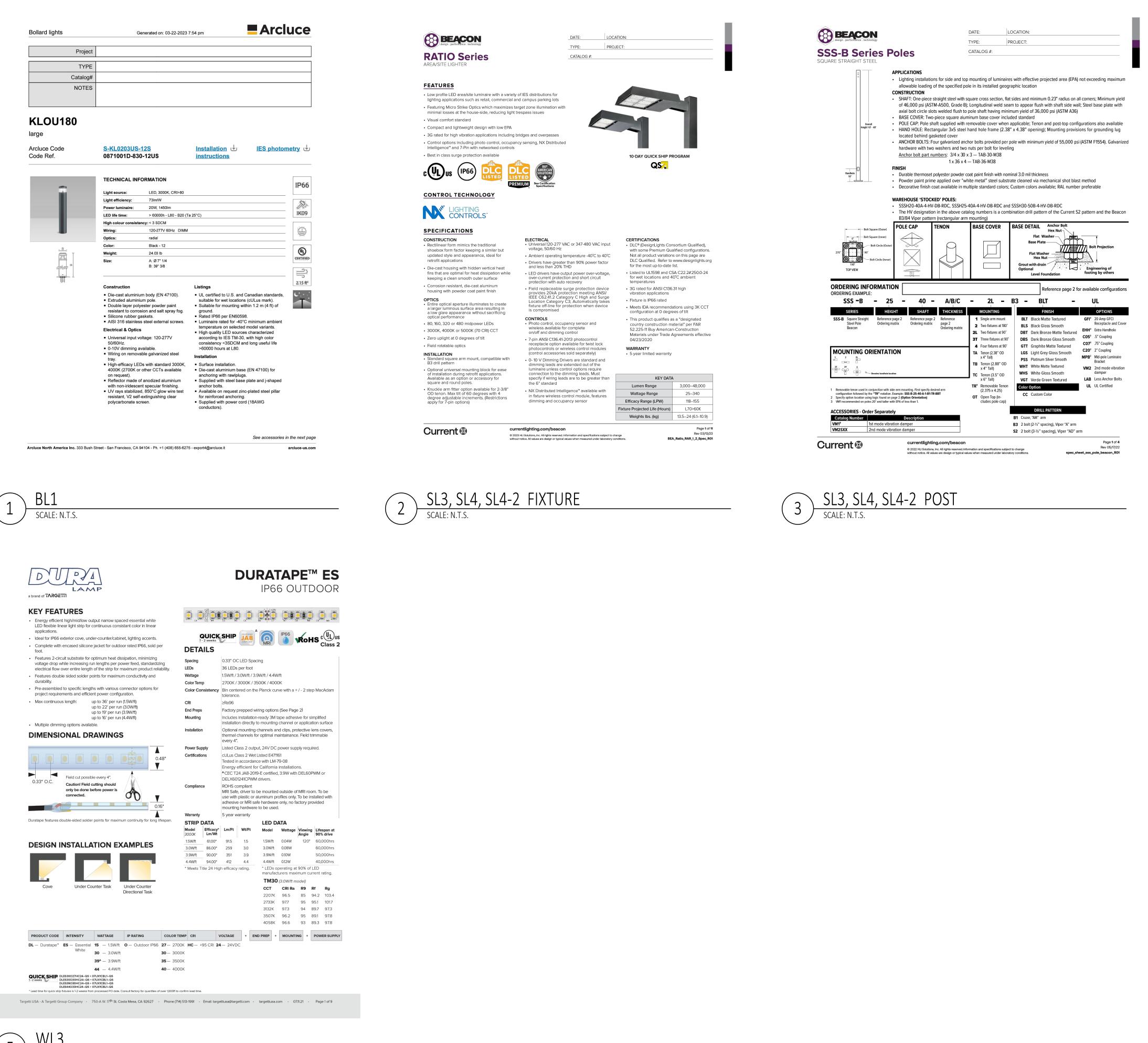
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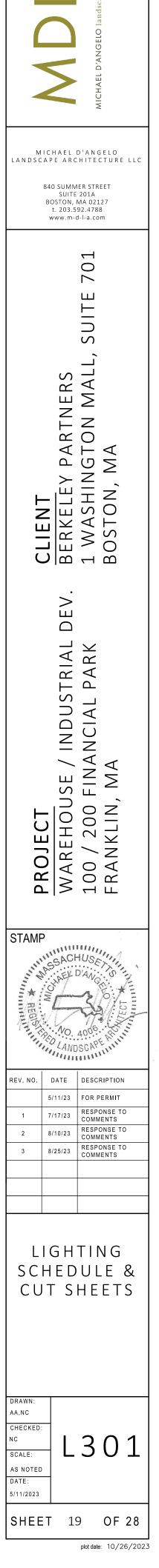
5/11/2023

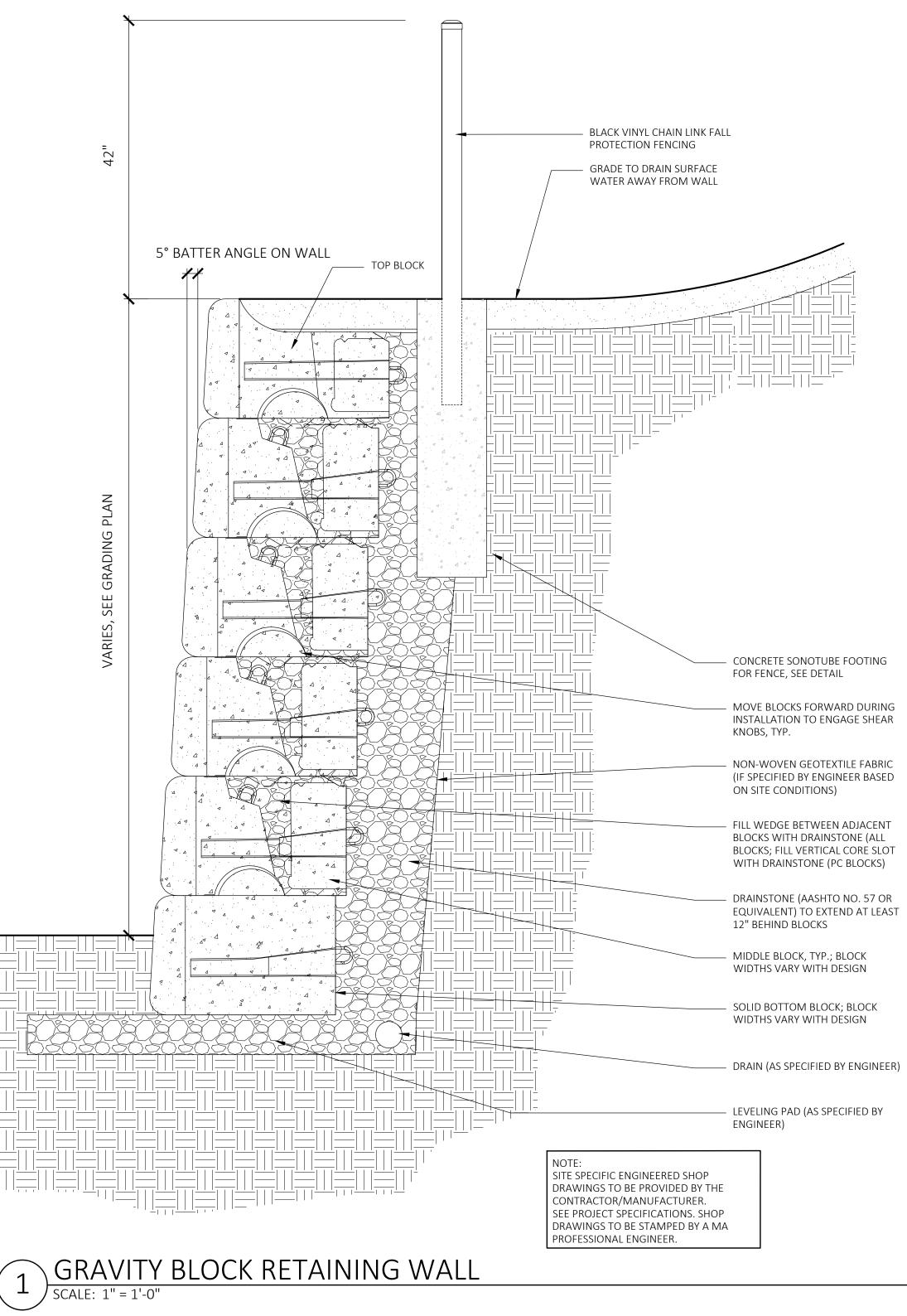


5 WL3 SCALE: N.T.S.









MICHAEL D'ANGELO landscape architecture
MICHAEL D'ANGELO LANDSCAPE ARCHITECTURE LLC 840 SUMMER STREET SUITE 201A BOSTON, MA 02127 t. 203.592.4788
CLIENT BERKELEY PARTNERS 1 WASHINGTON MALL, SUITE 701 BOSTON, MA
PROJECT WAREHOUSE / INDUSTRIAL DEV. 100 / 200 FINANCIAL PARK FRANKLIN, MA
STAMP SSACHUSE NO. 4000 AND SCAPE
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
LANDSCAPE DETAILS
AA,NC CHECKED: NC SCALE: AS NOTED DATE: 5/11/2023 CHEET 20 OF 28

LIGHT SCH	EDULE	-	-			_
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
		1	1	1		
0	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
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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMME
	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		

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.			

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0	[†] 0.0	⁺ 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] .0	ð.0	[†] .0	[†] 0.0	⁰ .1	0.1	[†] 0.1	[†] 0.2	[†] .4	1.1	1.1 1.5 X.4 1.8
0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.1	0.1	0.1	[†] 0.2	t.3	0.8 ×1.		1.8 2.2									
										↓ • •									1.0 I.	5 2.2	2.8 3.4
0	⁺ 0.0	[†] 0.0	⁺ 0.0	⁺ 0.0	₽.0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.1	[†] 0.1	[†] .1	0.1	0.1	0.1 0.2 0.2 0.3	0.3 0 0.4 0	.3 0.5 .5 0.7	0.9 1.3	) ; ; ; ;	2.6 2.28	3.2 3.9 3.4 4.1
								/		[†] 0.1					0.3 0.4	0.5 0			/		*3.7 *4.45
0	⁺ 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.0	ð.1 (	to.1	. <u>1</u>	<u>0.1</u>	- <del>0</del> .1	10/2	0,1	⁺ 0,2	to 24	0.7		.5 2.0	2.5 2.9	·3.1 ·3.	6 4.3	4 5.10
С	⁺ 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.1	.1	[†] 0.2	[†] 0.1	÷	0.2		0.5	0.2	0.8 1.0	i.	.9 2.6	3.4 <b>4</b> .0	4.3 4.	5.1	
						70.1				12 /	ŧ0.3	0.9	i. 1.3	0 0.9			8 ² .5 5 ² .1			/	4.3 3.9
)	[†] .0	[†] .0	÷ 0.0	[†] .0	[†] .1	ō.1	[†] 0.1	[†] 0.3	ф.з	† 0,4	to.,8	2.8			`	\	3 1.7		$\sim$		4.2 4.7 5.3 5.5
ì	+ 0	÷	+ 1	* /	±	+	+	•	////			4.2	3.6 2.	9 2.2	1.7 1.4	1.2 1.	2 1.	2.0	3.8	5.4	5.6 5.6

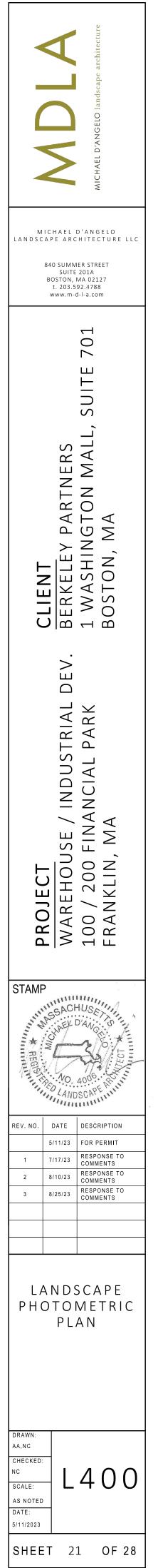
## 

SCALE: 1" = 20'-0"

[†].0 [†].0 0.0 0.0 0.0 0.0 b.o b.oō.o ō.o ቫ.o ō.o t.0 t.0 t.0 t.0 t.0 t.0 t.0 t.0  $\overline{0.0}$   $\overline{0.0}$   $\overline{0.0}$   $\overline{0.0}$   $\overline{0.0}$   $\overline{0.0}$   $\overline{0.0}$   $\overline{0.0}$   $\overline{0.0}$   $\overline{0.0}$ 5.1 5.1 5.1 5.1 5.0 5.0 5.0 5.0 5.0 5.0****†0.0 to the the term of te 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1to,o\ ₽.0 to... \ 2 0.3 0,2 0.1 **0.**1 01 0.1 0.0 0.0 0.0 $\gamma \qquad \stackrel{+}{h_{q}} \cdot \stackrel{+}{\rho} \cdot \stackrel{+}{\rho}$ t.o t.o t.o t.o t.o t.o t.o  $b.1 \ b.2 \ b.2 \ b.3 \ b.3 \ b.5 \ b.6 \ b.4 \ b.3 \ b.1 \ b.1 \ b.1 \ b.1 \ b.1 \ b.0 \ b.0 \ b.0 \ b.0 \ b.0$ + 1 0.2 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1ŏ.1 [†].1 [†].2 _№ ANT 0.8 0.5 0.2 0.1 0.1 0.1 0.0 0.0 0.5 0.7 1.0 1 b.0 b.0 b.0 b.1 b.1 b.1 b.1 0.1 0.1 0.2 0.2 0.4 1,5 0.8 0.5 0.2 0.1 0.1 0.1 0.0 0.0 1.4 2.0 2.3 2.6 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0,2 0.2 0s 1.9 2.5 3.0 3.3 3.3  $\dot{0}.8$   $\dot{0}.4$   $\dot{0}.2$   $\dot{0}.1$   $\dot{0}.1$   $\dot{0}.0$ 1.6 2.9 3.4 3.9 4.1 3 0.0 0.0 0.1 0.1 **1** 0.2 0.2 0.3 0.6 0.8 1.1 1.3 [•]0.4 [•]0.2 ^{*}2.4 ^{*}2.7 ^{*}3.2 ^{*}3.8 ^{*}4.3 ^{*}4.8 ^{*}4.6 0.7 1.6 2.0 2.3 2.5 3.9 3.3 3.8 4.3 4.7 5.1 5.2 [†]0.0 [†]0.1 [†]0.1 *0.2 0.2 0.3 0.4 2 6 3 1.2 0.6 0.3 0.1 0 13.1 3.4 4.0 4.6 4.7 [†].1 [†].1 1.9 2.5 **3**.2 3.6 3.7 4.1 \$ [†]0.2 [†]0.3 5[†]0.4 4.9 4.8 1.8 0.9 0.4 0.2 to 1.9 3.5 4.1 4.3 4.7 4 SL4-2 **0.**3 0.2 MH: 22' 3.5 4.4 **1**.1 0.2 0.3 4.2 3.8 3.6 [†]0.3 2[†]0.2 0 2.6 2.1 [†]0.2 [†]0.3 [†]0. R.B 5/0.2/ 4.8 5.0 4.4 3.8 2.8 2.5 2.1 *5*0.4 .5 0.4 0.4 0.5 0.4 0.3 BL1 E.O \4/3// 3.2 3.5 4.1 4.7 4.8 5.0 4.8 4.4 0.1 3.3 3.7 3.8 4.2 4.7 1.8 2.2 2.7 .8 4.5 1.1 1.0 1.0 1.2 1.4 2.2 2.6 3.1 3.8 4.3 4.5 4.8 1.1 0.9 0.9 0.9 1.0 1.0 0.9 [†].1 [†].1 2.5 2.8 · 3.2 · 3.9 · 4.7 ∫ · 5.2 · 5.4 JAJ A TARA 2 1.1 0.9 0.8 0.8 0.8 0.7  $0.4_{1}$  0.2 50.1 0.1 0.03.0 3.1 3.3 3.8 4.6 5.4 5.6 50 4.0 4.4 ⁴/₈/SL4-2 3.6 3.4 3.0 2.5 1.9 / 1.4 1.0 0.8 BL1  $\leftarrow$ MH: 22' 3.7 3.7 3.5 3.7 4.3 5.2 6.0 5.3 5.2 5.3 5. 2.8 2.5 2.1 1.2 0.8 0.5 0.5 0.5 28,3/10.3 t.1 5^{0.1} 0.1 0.0 0.0 0.0 5.3 5.9 5.8 5.7 5.2 4.7 4.1 3.5 2.6 2.2 1.9 1.5 1.2 0.9 0.7 0.6 0.5 to.o to.o to.o to.o 5.4 0.3 0.1 0.1 0.1 4.3 3.7 2.7 2.3 1.8 1.4 1.1 0.9 0.7 4.3 4 5NV4 8 4.7 4NVA 3 5 0.9 0.8 0.8  $\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \xrightarrow{0} 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& 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 &$ ₹0.2 0.7 3.4 2.9 2.4 2. — BL1 – BL1 ⁵.1 ⁵.1 ⁵.0 ⁵.0 ⁵.0 ⁵.0 ⁵.0 20050002 ₩BL1. 5 0 10 4.8 3.3 3.0 9.6 2.6 2.8 5.6° 5.3 1.3 0.1 0.0 .1 3.88 CE ₩L1 2.4 2.4 3.2 MH; 12'  $\bigcirc$ 4.4 4.1 4.0 3.8 

#### FOR PERMIT ONLY NOT FOR CONSTRUCTION

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[†] 0.0			[†] 0.0			[†] 0.0			⁺ 0.0		[†] 0.0	[†] .0	[†] 0.0	[†] .0
[†] .0			0.0	[†] 0.0	[†] .0	[†] .0	[†] .0	[†] 0.0	[†] 0.0	[†] 0.0	[†] .0	ţ.	0.0	† 0.0
0.0	[†] .0	[†] 0.0	[†] 0.0	⁺ 0.0	⁺ 0.0	[†] .0	[†] .0 10	N 0.0	÷.0	0.0	<b>0</b> .0	<b>†</b> .0	[†] .0	<b>0.</b> 0
[†] .0	[†] 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	to .e	[‡] 0.0	[†] 0.0	[†] 0.0	÷.0	0.0	<u>, 0</u> .0	0.0	<b>0</b> .0	₽.0
[†] 0.0	[†] .0	[†] .0	00	[†] 0.0	[†] 0.0	[†] 0.0	0.0	0.0	0.0	0.0	0.0	• †.0	• • •	<b>0</b> .0
[†] 0.0	<b>.</b>	0.0	[†] 0.0	0.0	<b>0</b> .0	5.0	0.0	Ō.0•	<b>•</b> .0	•+ 0.0	to.0	<b>0</b> .0	[†] 0.0	ō.0
ð.0	5 0.0	0.9	[†] 0.0	[†] 0.0	Ō.07	Ō.0	ō.0	Ť.o-	- f0.0	[†] 0.0	0.0	[‡] 0.0	<b>LOW</b> 0.0	<b>b</b> .o
م م م م	[†] 0.0 [×]	0.0	<u>,</u>	<b>†</b> .0	Ō.0	[†] .0	Ō. O	[†] 0.0	[†] 0.0	[†] .0	ŧ.0	[†] 0.0	[†] 0.0	Ď.O
^ت ريز 0.0	Store.	NS 6.0	ŧ. 0	[†] .0	ţ.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	÷0.0	⁺ 0.0	[†] 0.0	[†] 0.0	<b>.</b> 0
[†] 0.0		ð.0	0. o	÷.0	•.0	⁺ 0.0	[†] .0	Ō.0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.0	0.0
[†] .0	ţ.0	t.,0	[†] 0.0	0.0	- Ť.0	⁺ 0.0	⁺ 0.0	0.0	<b>0.0</b>	[†] 0.0	÷0.0	[†] 0.0	[†] 0.0	.0
[‡] 0.0	t.0	ō.0	÷.0	o	[†] 0.0	⁺ 0.0	÷	Ō.0						<b>I</b> <b>I</b> .0
[†] .0	, [†] .0					/		[†] 0.0					ō.o	
⁺ 0.0		, , ,						0.0 [†] 0.0						1 1
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	<b>•</b> • • 0												to.ot	
[†] 0.0	<b>†</b> . o							[†] .0						4
⁺ 0.0								↓ 0.0		[†] 0.0	[†] 0.0	0.0	•.• <b>0</b>	0.0
⁺ 0.0	[†] .0	[†] 0.0						[†] 0.0		[†] 0.0		[†] 0.0	[†] 0.0 [†]	0
<b>†</b> .0	[†] 0.0	<b>1</b> ,0	⁺0.0	0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	⁺ 0.0	⁺ 0.0	⁺ 0.0	⁺o.o t	. 0
[†] 0.0	0.0	ō.0	Ź. 0.0	[†] 0.0	⁺ 0.0	⁺ 0.0	[†] 0.0	⁺ 0.0	⁺ 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	⁺0.0 t	. 0
ð.1	<b>0.</b> 0	[†] 0.0	0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] .0	⁺ 0.0	[†] 0.0	<b>•</b> .0	[†] 0.0 [†] 0	
• 0.1	[†] 0.0	[†] 0.0	ō.o	[†] 0.0	<b>*</b> 0.0	[†] 0.0	[†] .0	[†] .0	[†] 0.0	[†] 0.0	÷ 0.0	⁺ 0.0	ō.0 ō	0
• 0.1	[†] .1	*•••••			†0.0			[†] .0		[†] 0.0			t.o t	O
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.1	ŧ.0	, [†] .0	t.0.0	[†] .0	[†] 0.0	[†] .0	[†] 0.0	t.0	[†] 0.0	⁺ <u>0</u> ,0~^}	\$0.0~	⁺ 0.0	to.o to	
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.0	<b>0</b> .0	[†] .0	0.0	[†] .0	[†] 0.0	[†] .0	[†] 0.0	0.0	₽.0	⁺ 0.0	<b>•</b> .0	, BL1 0.∪	0.3 [†] 0.3	



[†] 0.0	[†] 0.(	[†] 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	⁺ 0.0	, to _0	÷.0	<u>†</u>	_0.0												
						4	~	÷.0		ser			[†] .0		<u>.OW</u>							
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								<b>0</b> .0	55	1 2	and the second s				1		\				· · · · · · · · · · · · · · · · · · ·	
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<b>LO</b> \ ₺.0	<b>V</b> ↓.0	[†] .0	÷.0	.0	0.0	0.0	t	<b>-</b> 0 <del>. 0</del>	+ 0_0	÷ 0.0	[†] 0.0	[†] .0	[†] 0.0	[†] 0.0	[†] 0.0	[*] 0.0	[†] 0.0	÷.0	ţ, 0	0.0 	••••	, † ∩
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5.0			⁺ 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.0	•.0 ₽		<b>1</b> ↓0.0	[†] 0.0	[†] 0.0	[†] .0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] 0.0
).0	4 Q 0	0°⊈	⁺ 0.0	⁺ 0.0	⁺ 0.0	[†] .0	[†] 0.0	[†] 0.0	÷ 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] .0	[†] 0.0	⁺ 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	⁺ 0.0	[†] 0.0
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.0	[†] .0	[†] 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] .0	⁺ 0.0	⁺ 0.0	⁺ 0.0	[†] .0	[†] 0.0	[†] 0.0	⁺ 0.0	÷0.0	[†] 0.0	[†] 0.0	[†] 0.0	t 0.0	+	⁺ 0.0
.0	[†] 0.0	[†] .0	[†] 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] .0	⁺ 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] 0.0
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.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	0.0	0.0	⁺ 0.0	[†] 0.0	<b>•</b> .0	<b>•0.</b> 0	[†] 0.0	Ð.0	[†] 0.0	[†] 0.0	<b>•</b> .0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] .0	•	÷0.0	⁺ 0.0
.0	[†] .0	ō.o	\$.0	÷.0	[†] 0.0	[†] 0.0	[†] .0	⁺ 0.0	⁺ 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.0	ئى ^{سى} ر 0.0	0,10 0,10	50.0 ³
.0	[†] .0	Ō.0	⁺ 0.0	⁺ 0.0	⁺ 0.0	[†] 0.0	[†] .0	[†] 0.0	[†] 0.0	⁺ 0.0	⁺ 0.0	[†] 0.0	[†] .0	[†] 0.0	[†] 0.0	[†] 0.0	÷	÷.0	[†] 0.0			* * *
. 0	[†] .0	[†] 0.0	⁺ 0.0	⁺ 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	⁺ 0.0	⁺ 0.0	[†] .0	[†] 0.0	[†] 0.0	⁺ 0.0	⁺ 0.0	[†] .0	+0.0	[†] 0.0	[†] 0.0	***** •••
.0	[†] .0	[†] 0.0	⁺ 0.0	⁺ 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	[†] .0	[†] 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] .0	[†] .0	[†] 0.0	⁺ 0.0	⁺ 0.0	[†] 0.0	ō.o	ŧ.0	[†] 0.0	÷0.0
. 0	[†] 0.0	[†] .0	[†] 0.0	[†] .0	⁺ 0.0	⁺ 0.0	[†] 0.0	[†] .0	[†] 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] .0	[†] .0	[†] 0.0	[†] 0.0	[†] .0	[†] 0.0	[†] 0.0	[†] .0	<b>•</b> . 0	[†] 0.0
0	[†] 0.0	[†] .0	[†] .0	[†] 0.0	[†] 0.0	[†] 0.0	ð.1		[†] .0	ō.0	<del>*</del> 0.0	- <del>.</del> 0	0.0	ð.0	Ō.0	•	÷.0	ð.0				
0	[†] 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	[†] 0.0	[†] 0.0	0.1		[†] 0.0		3.3	+ 2,2	0.1	0.1	* <u>1</u> 0	• 0.4	[†] 0.0	ð.0	0.0	[†] 0.0	⁺ 0.0	t.o
0	[†] 0.0	[†] .0	[†] .0	<b>Å</b> .1	[†] .0	9.0	1.	<del>*</del> 3.7	0.1	†∂ BL	1).2	Ō.2	[†] 0.0	D BL1	+	0.6	t.0		2	[†] 0.1	[†] 0.0	[†] 0.0
1	$\sim$	0.0	ð. 1	*5.0 9	0.2	ō.ō	0.2	BL1	[†] 0.0	ŧ0.0	÷.0	.0	[†] .0	[†] .0	0.1	ŧ.0	0.0		<b>*</b> 4.4	0.2	÷0.0	\$.0
	₹.6	20.0	↓ ↓ BL1 →	2.8	0.1	0.0	÷.0	Ō.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] .0	[†] 0.0	[†] 0.0	⁺ 0.0	⁺ 0.0	BL1 -	0.3	t.1	[†] 0.0	+0-4
3	, / 0.1	0.0	[†] .0	Ŏ. O	⁺ 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] .0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] .0	<b>•</b> .0	[†] 0.0	[†] 0.0	[†] 0.0	√ [†] 0.0	[†] .0	↓ 0.0	, BL1 —
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Ţ		SCALE:	1" = 2	0'-0"																		

	SYMBOL LABEL MODEL	MOUNT	ARRANGEMENT OP	TIONS REP	
	• BL1 ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN CO BOLLARD GR/		
	BEACON RATIO SITE FIXTURE 	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT	SINGLE CO	LOR:	
t.o t.	BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U	KEEP 3" ABOVE GRADE IN ISLANDS CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT	SINGLE COL		
t.o t.o t.o t.	BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH BEACON RATIO SITE FIXTURE	KEEP 3" ABOVE GRADE IN ISLANDS CONCRETE FOOTING;	BLK	617-947-8996 STEVE	
t.o	SL4-2         RAR1-160L-135-3K7-4W-U           ■ ■ ■         SL4-2         BEACON SSS-B POLE           SSS-B-20-40-A-2-B3-FINISH         SSS-B-20-40-A-2-B3-FINISH	KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	BACK BACK BLK		
t.o	WL1     BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U       BEACON RATIO WALL FIXTURE		BLK	LOR:	
	WL2         BLACCIN NATIO WALL INFORCE           RWL2-160L-135-3K7-4-U             WL3           DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8	BUILDING MOUNT	SINGLE BLK RECESSED WALL LIGHT		
	SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRI	L C PLAN PROVIDED WITH THIS DRAWING	Į į	MATION.	
$W_{0.0}$ $\overline{0.0}$	Calculation Summary Label CalcType CNAMPACNE BUILDING	Units Avg Max	Min Avg/Min		
to t	CHAMPAGNE BUILDING Illuminane PARKING AREAS Illuminane SPILL LIGHT Illuminane	ce Fc 1.70 30.9	0.1 17.20 0.0 N.A. 0.0 N.A.	47.00 N.A. N.A.	
to.o to.o to.o to.o to.o to.o to.o to.o					
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t.o	t.o			to to t	v.v ∪.
t.o	$\overline{b}$		*• • * *	U.U U.O 0.0	U.O O.
b.o			U.U 0.0 0.0	0.0 0.0 0.0	Ö.O [†] O.
b.o		.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0	ō.o ō.o ō.o	ō.o ō.
b.o       b	0.0 0.0 0.0 0.0 0.0 0.0 b.	0 0.0 0.0 0.0 0.0	ō.o ō.o ō.o	ō.o ō.o ō.o	[†] 0.0 [†] 0.
	0.0 0.0 0.0 0.0 0.0 0.0 0.	o [†] o.o [†] o.o [†] o.o	ō.o ō.o ō.o	[†] 0.0 [†] 0.0 [†] 0.0	[†] 0.0 [†] 0.
to t	\$\overline{0}\$.0     \$\overline{0}\$.0     \$\overline{0}\$.0     \$\overline{0}\$.0     \$\overline{0}\$.0     \$\overline{0}\$.0	o ō.o ō.o ō.o ō.o	[†] 0.0 [†] 0.0 [†] 0.0	[•] 0.0 [•] 0.0 [•] 0.0	[⁺] 0.0 [†] 0.
\$\dots\$.0	b.o     b.o     b.o     b.o     b.o     b.o	o [†] o.o [†] o.o [†] o.o [†] o.o	[†] 0.0 [†] 0.0 [†] 0.0	[†] 0.0 [†] 0.0 [†] 0.0	ō.o ō.
t.o	t.o	0 0.0 0.0 0.0 0.0	⁵ .0 ⁵ .0 ⁵ .0	ō.0 ō.0 ō.0	⁺ 0.0 ⁺ 0.
to t	b.o	o t.o t.o t.o t.o	[•] 0.0 [•] 0.0 [•] 0.0	[†] 0.0 [†] 0.0 [†] 0.0	• 0.0 °.
	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	o t.o t.o t.o t.o	[†] 0.0 [†] 0.0 [†] 0.0	[†] 0.0 [†] 0.0 [†] 0.0	[†] 0.0 [†] 0.0
		o to.o to.o to.o	[†] 0.0 [†] 0.0 [†] 0.0	t.o t.o t.o	[†] 0.0 [†] 0.0
	b.o         b.o <td>o to.o to.o to.o</td> <td>[↓]0.0 [↓]0.0</td> <td>[†]0.0 [†]0.0 [†]0.0 [†]</td> <td>ō.o ō.c</td>	o to.o to.o to.o	[↓] 0.0 [↓] 0.0	[†] 0.0 [†] 0.0 [†] 0.0 [†]	ō.o ō.c
t.o	t.0 t.0 t.0 t.1 t.1	1 [†] 0.0 [†] 0.0 [†] 0.0 [†] 0.0	[↓] .0 [↓] .0	t.o t.o t.o t	.o •.c
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b.0 $b.0$					
$\dot{b}$ . $\dot{b}$	0.1     0.2     0.3     0.7     1     1     1     1			••• • ••• ••• ••• •••••••••••••••••••	0.0
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			0.0 to.0	to.o to.o to.o to	0.0 0.0
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0 0 0 4 1.6 0.1 0.0 0.1 0.1 0.0 0.1 0.1 0.0 0.2 0.7 0.0 0.8 0.9 0.9 0.9 0.7 1.0 BL1 BL1 WL3	1.8 $3.0$ $2.0$ $1.3$	\$.6 0.3 0.2 0.1	.1 0.0 0.0	t.o t.o t.o t	.0 0.0
.0 <u>BL1</u> 1.5 0.1 0.0 1.3 7.6 0.1 0.0 1.0 10.1 0.1 0.1 0.1 0.1 0.1 1.5 1.5 1.6 1.2 0.7 1.2	1.8 2.4 3.6 4.4 4.6 3.6 1.9 1.1 0.8 2.4 3.7 4.0 2.4	0.5 0.3 0.3 0.2 0	. to.1 0.1	- \ <b>\</b>	.0 0.0
BL1	$\begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\$	to.3 to.2 to.1 to.1 to	.1 0.0	5.0 5.0 0.0 b.	.0 0.0
HEET L401	0.8 $0.9$ $0.4$ $0.3$ $0.2$		.0 0.0 0.0 t	p.o t.o t.o to	. <u>0</u> . <u>0</u>
HEET L403					

			_	PERMIT ONLY R CONSTRUCTION
MOUNT	ARRANGEMENT	OPTIONS	REP	
CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY		
CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK		
CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	ILLUMINATE 617-947-8996	
CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMME	
BUILDING MOUNT	SINGLE	COLOR: BLK		
		COLOR:		

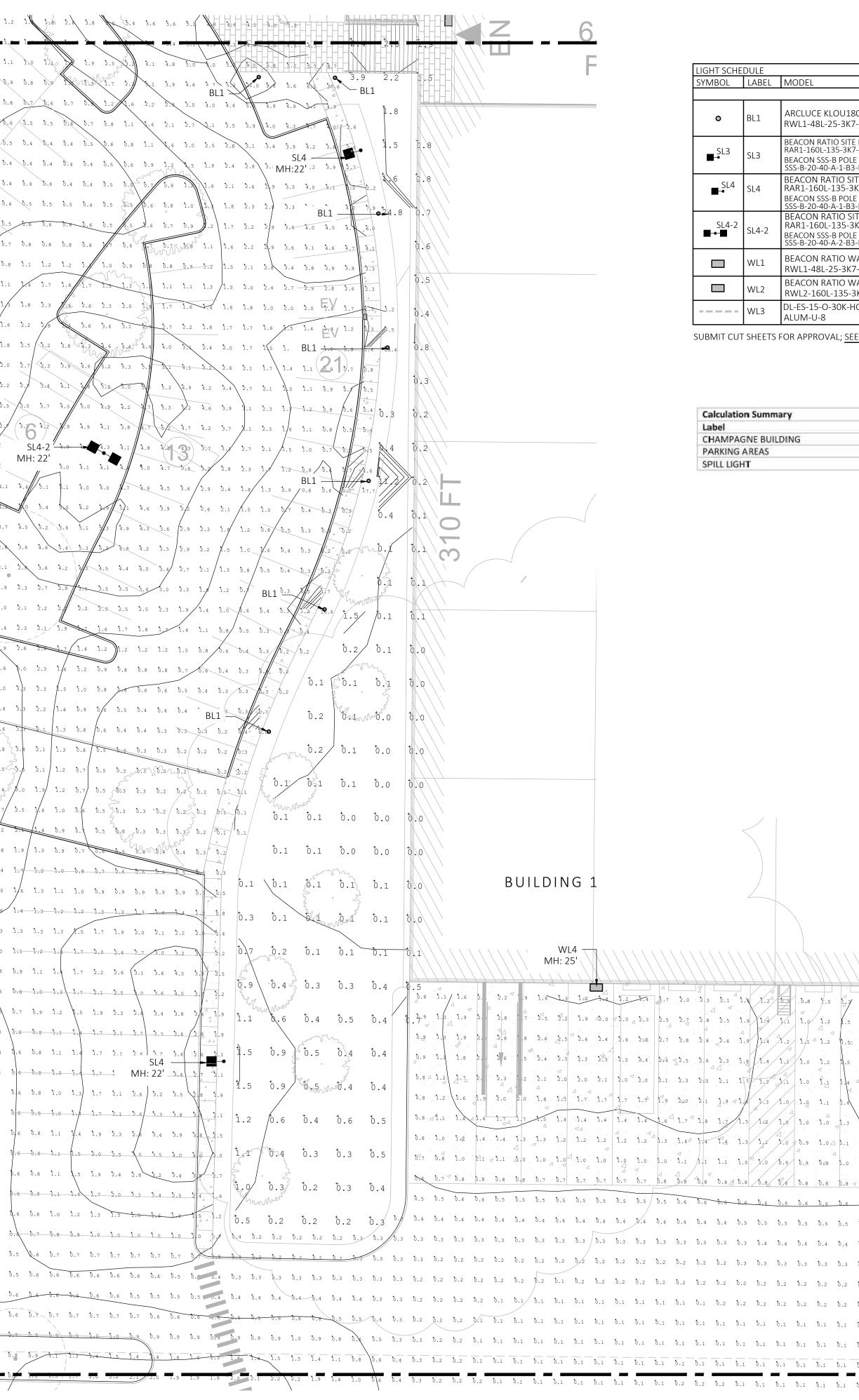


0 10 20 40 SCALE IN FEET

	MICHAEL D'ANGELO landscape architecture
	ICHAEL D'ANGELO APE ARCHITECTURE LLC 840 SUMMER STREET SUITE 201A BOSTON, MA 02127 t. 203.592.4788 www.m-d-l-a.com
	BERKELEY PARTNERS 1 WASHINGTON MALL, SUITE 701 BOSTON, MA
DROIECT	WAREHOUSE / INDUSTRIAL DEV. 100 / 200 FINANCIAL PARK FRANKLIN, MA
STAMF REV. NO.	DATE DESCRIPTION 5/11/23 FOR PERMIT 7/17/23 RESPONSE TO COMMENTS 8/10/23 RESPONSE TO COMMENTS 8/25/23 RESPONSE TO COMMENTS
	A N D S C A P E D T O M E T R I C P L A N
DRAWN: AA,NC CHECKED: NC SCALE: AS NOTED DATE: 5/11/2023	L401

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0 to.0 to.0 to.0 to.0 to.0	0.0 0.0 0.1	0.1 0.2 p.3		³ · MH: 22' ³ / _{2.9}	2.4 1.9 1.4 1.0 0.8 1.9 1.5 1.0 0.8 0.6
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o ō.o ō.o ō.o ō.o ō.o	ō.0 ō.0 ō.1		1.1 3.6	3.6 2.9 2.3 1.8 1.4	1.2 0.9 2.6 0.5 0.4 0.9 0.7 0.5 0.4 0.4
o ō.o ō.o ō.o ō.o ō.o			1.5 2.6 3.7 3.1 4.0		0.8 0.6 0.5 0.4 0.4 7.6 0.5 0.4 0.5 0.5
o.o o.o o.o o.o o.o o.o			8 1.1 1.5 4.8 2.2 2.4 8 0.9 1.5 51.2 1.5 1.7		
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	~~ //*/	2.0 1.8 1.	1 1.0 b.9 b.9 b.9 1.0	0.8 7 0.6 0.5 0.4	
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✓	0.3 0.4 0.6 to.3 to.6 ti.9	1.5	3     3.1     2.4     1.8     1.2     0.9       7     7.1     2.4     1.7     1.2     0.8	0,6 0.5 0.4 0.4 0.4	0.6 0.8 1.1 1.7 2.2
$\geq$	0.4 0.8 1.6	2/7 4.1 4.1 3.6 3.1	2.7 2.1 1.5 1.0	0.5 0.4 0.5 0.6	0.7 1.0 <i>Y</i> .4 1.9 2.5 0.8 1.2 1.7 2.3 2.7
0.0 0.1 0.1 0.2 0.2 0.2		MH· 22'	3 2.3 1.8 1.3 0.9 0 5 2.1 1.6 1.1 0.8 0.6		1.1 1.6 2.3 2.8 1 14 1.9 2.6 3.2
b.0 b.1 b.1 b.1 b.1 b.2		3.0     4.0     3.9     3.5     2.9     2.4       4.0     4.4     4.0     3.3     2.7     2.3			
0.0 0.0 0.1 0.1 0.1 0.1	(+)	4.5     4.5     3.9     3.4       4.5     4.5     4.0     3.5			
t.o t.o t.o t.1	to.2 1.0	3.5 3.7 3.6 3.2 2.7 2.0	5 di.2 i.1 i.2 i.3	1.3 1.3 1.2 1.1	1.3 1/3 1 4 1.7 2.1
b.o b.o b.o b.o b.o b.1	0.1 0 <u>6</u> <u>1.0</u> <u>1.3</u> <u>1</u>	2.3 2.6 2.7 2.6 2.2 1.8 1.7 1.8 1.9 1.8 1.5	1.3 1.2 1.4 1.7 2.2	2 () 2.2 1.9	1.8 1.8 1.9 2.0
t. t	0.4 b.5 b.6 b	i.1 i.2 i.3 i.3 i.3 0.8 0.9 i.0 i.1 i.1	i.2 i.2 i.5 2.0 2. i.1 i.3 i.7 2.4 3.3	3.2     3.9     2.7     2.5       3.9     3.6     3.2     3.0	2.4 2.3 2.5 2.4 SI 4-2
t.o t.o t.o t.o	0.1 0.1	.7     0.7     0.8     0.8     0.9     1.0       .7     0.8     0.8     0.9     0.9     1.1	1.2 1.4 1.9 3.8 3.8	<b>4</b> .6 <b>4</b> .5 <b>4</b> .1 <b>3</b> .9 <b>3</b> .8	MH: 22' 5 3.7 3.6
0.0         0.1         0.1         1.1         0.1	0.9 i.0 i	.0 1.0 1.0 1.0 1.1 1.2	3.4 1.9 2/8 4.0 5.0	5.4 5.2 5.1 4.9 5.0	4.9 4.5 4.8 4.9 4.4
0.0 0.1 0.1 0.1 0.1 0.2	).6 1.9 2.3 2.3 2	<u>i.4</u> i.4 i.3 i.3 i.3 .2 2.0 i.9 i.7 i.5	1.6 271 8. b 14.3 5.3	5.2 4.7 4.0 4.0 4.4	3.8 3.2 4.8 5.3 4.8
to.0 to.1 to.2 to.3 to.2 to.3	•••	. 2.6 2.3 1.9 1.7 1.6 .4 2.9 2.5 2.1 1.7 1.6		$\leq$	4.2 4.5 4, 5.4 5.0 50 5.2 5.3 5.2 4.4 5
0.0     0.1     0.2     0.4     0.3     0.4	_    \	3       2.8       2.4       2.0       1.7       1.6         4       2.6       2.2       1.8       1.6       1.5			
	<b>1.4 2.3 3.4 3.4 (3.</b>	0 2.4 2.0 1.7 1.6 15 2.4 2.0 1.7 1.5 1.4	1.6 1.9 2.3 2.7 2.8	2.9 2.8 2.8 2.9 3.0	3.3 3.7 3.9 3.6 2.8 1
	1.8 MH: 22'	² .4 ² .0 ¹ .7 ¹ .5 ¹ .3	i.2 i.3 i.3 i.5 i.5	1.5 1.5 1.6 1.7 1.9	2.2 2.4 2.5 2.4 2.0 1
0.0     0.1     0.1     0.4     0.4     0.7       0.1     0.1     0.3     0.2     0.3     0.5	1.7 <b>3</b> .2 <b>3</b> .9 <b>3</b> .6 <b>3</b> .	9 2.4 1.9 1.6 1.4 1.2 0 2.5 2.0 1.7 1.4 1.1	1.0 0.9 0.8 0.7 <u>0.6</u>	<del>0.6 0.6 0.7</del> 0.7 0.8	i.0 i.2 i.3 i.3 i.3 i
A Constant of the second of th		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
	¥L.0 2.4 3.5 3.8 3.6 3.	$\frac{3}{2.9} \xrightarrow{2.9} 2.5 \xrightarrow{2.0} 1.4 \xrightarrow{1.3}$ $9 \xrightarrow{2.7} 2.4 \xrightarrow{2.1} 1.7 \xrightarrow{1.3}$	1.0 0.7 0.6 0.4 0.4	0.3 0.3 0.3	0.3 0.4 0.5 0.5 0.6 b
	1.6 2.3 2.6 2.6 2	5 2.5 2.3 2.0 1.7 1.4	1.0 0.8 0.6 0.4 0.3 0	0.3 0.2 0.2 0.2 0.2	b.2 b.3 b.3 b.4 b.5
	$2 \cdot 2 \cdot 7 \cdot 7 \cdot 2 \cdot 4 \cdot 2 \cdot 7 \cdot 2 \cdot 7 \cdot 2 \cdot 6$ $2 \cdot 2 \cdot 2 \cdot 3 \cdot 1 \cdot 3 \cdot 3 \cdot 3 \cdot 2 \cdot 3 \cdot 6$	6 2.5 2.3 2.0 1.7 1.4 0 2.7 2.4 2.0 1.8 1.3	1.0 0.8 0.5 0.4 0.3 t 1.0 0.7 0.5 0.4 0.3 0	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	b.2 b.2 b.3 b.3 b.4 d. b.2 b.2 b.3 b.3 b.4 d.
	2.7 3.9 4.1 3.8 3	3     2.9     2.4     1.9     1.5     1.2       2.8     2.3     1.8     1.4     1.1	0.9 0/6 0.5 0.4 0.3 0	.2 0.2 0.2 0.2 0.2 0	0.2 0.2 0.2 0.3 0.4 0.
	2.0 3.6 4.0 3.5 3.0	2.5 2.0 1.6 1.3 0.9 3 2.3 1.8 1.5 1.2 0.9	0.7 0.5 0.4 0.3 0.2 0	.2 0.2 0.2 0.1 0.1 0	0.2 0.2 0.2 0.3 0.4 0
to.0 to.1 to.1 to.2 to.5 to.0 to	1.9 $2.5$ $3.4$ $3.3$ $2.7$	² 2.2 1.8 (1.4 1.1 0.8	d.6 0.5 0.3 0.3 0.2 0	.2 0.2 0.2 0.2 0.2 0	0.2 0.2 0.2 0.3 0.4 0.
0.0 0.1 0.1 jos 0. 0.9		2.2         1.8         1.4         1.1         0.8           2.2         1.8         1.4         1.1         0.8			
0.0     0.1     0.2     0.4     0.4		2.3 1.8 1.5 1.2 0.9 2.5 2.0 1.1 1.2 0.9			
to 1 to 1 to 2 to 2 to 2 to 2 to 2 to 2	2.2 3.7 4.1 3.7 3.2	2.7 2.2 1.8 1.4 1.0	0.8 0.6 0.5 0.4 0.3 0.	3 0.3 0.3 0.3 0.3 0	.3 0.4 0.4 0.4 0.5 0.1
b.1 b.1 b.1 b.1 b.2 1	j.8 2.7 2.9 2.8 2.6	2.4 2.1 1.8 1.4	b.9     b.7     b.6     b.5     b.4     b.       1.1     b.9     b.8     b.7     b.6     b.		.7 0.7 0.7 0.7 0.7 0.6 0.6
b.o b.o b.1 b.1 b.1 b.1 b.1	1.2 1.7 1.9 1.9 1.9 .5.7 1.0 1.2 1.2 1.3	1.8 1.8 1.7 1/6 1.5 1.3 1.4 1.5 / 1.7 1.8 -	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	9 0.9 0.9 0.9 1.0 1 4 1.4 1.5 1.6 1	0 1.0 0.9 0.8 0.7 0. 6 5 1.2 1.0 0.8 0.8
b.o 0.0 0.0 0.0 0.1 0.1	0.4 0.2 0.8 0.8 0.9 .2 n 2 n 4 n 5 n 5 5 5 5 5	<u>1.0 1.1 1.4 1.7 2.1</u>	/		. 0 - 1
1 LANDSCAPE PHOTO	METRIC PLA	AN			

SCALE: 1" = 20'-0"



	1			
	MOUNT	ARRANGEMENT	OPTIONS	REP
	I	1		1
30 BOLLARD 7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
E FIXTURE 7-3-U E 3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	
TE FIXTURE K7-4W-U E B-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	SINGLE	COLOR: BLK	ILLUMINATE 617-947-8996
TE FIXTURE K7-4W-U E 3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMME
/ALL FIXTURE 7-4W-U	BUILDING MOUNT	SINGLE	COLOR: BLK	
/ALL FIXTURE 3K7-4-U	BUILDING MOUNT	SINGLE	COLOR: BLK	]
IC-24-A-DL-	ALUMINUM CHANNEL	RECESSED WALL LIGHT		

FOR PERMIT ONLY NOT FOR CONSTRUCTION

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

CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Illuminance	Fc	1.72	4.7	0.1	17.20	47.00
Illuminance	Fc	1.70	30.9	0.0	N.A.	N.A.
Illuminance	Fc	0.10	29.6	0.0	N.A.	N.A.

						WI 1H: 2	\																		SHEET L403	
	1.7	2.2	2.2	√1.9	1.7	13	1.2	<u> </u>	1.3	1.4	1.7	2.0	2.3	2.1	P 1	1.2	.9	4	1.04		1.7	2.2	2.3			
/ h 1.5	<b>•</b> 2.0	√ 2 6	2.9	⊿ 2.7	 2 <i>⊲</i> 5	2.2	• 2.0	2.0	√21.0	2.3	⊲ ⊿2.6	⊿ 2.7	2.8		1 1.9	1.4	1.1	$\triangleleft$	1.2		±.0		2.3 2.9	₹2.0 •	1.7 .4	÷.
- 54	2.0	2.5 2.5	2.9	2.8	• 2.7	2.6	2.4	2.4	2.4	2.6	2.7	. √ 2.8	2.8	2.4	1.9	<i>⊲∆</i> 1.4	⊿ 1.2	⊿ 1.1	1.2			1 2.5		2.8	2.7	2
.5	√ 1.9	2.4	2.6	2.5	2.4	∠ *2.4	2.3	⊿ 2√4	2.34	1 2.4	244	√ ^{2.5}	2.6	2.3	1.8	1.4		1.0	1.2	1.5	√ 1.9	2.4	2.6	<b>*</b> 2.5	2.4	2
4	4 <b>1</b> .8	222	2.3	•2.2	2.1	2.0	2.0	2.1	2.0	₫ 2.0	2.1	2.3	2.3	2,1	2 2 1.7	1.3	1.12	⊿ 1:.0	⊲ 1.1	1 4	1.8	42.2	2.3	4 2 2	2.1	2<
. 4	1.7	2.0 .√	2.1	2.04	₫ 1.8	1.7	1.7	1.7	1.7	1.7	1√9 ²	2.0	2.4	1.9		1.3	° 1.1 ⊿	1.0	1.1	1.4	1.7	2.0	4.1	2.0	1.8	1.
.3	145	1.7,	4.7 Ø	1.7	A-1.5	1.4	1.4	1.4 ⊿	√ 1.4	1.4	1.6	1.7	₹ 1.8	1.7	1,5	1.2	1.0	1.0	1.0	_1.3.	1.5	√ 1.7	1.7	1 ⁴ . 7	1.5	1 
· 1	1.3	1.4	1.4	1.4	1.3 ⊲	1.2	1.2	1.2	1.2	1.2	1.3	4 1.4	1.4	1:14	1.3A	<b>1</b> .1	1.0	Å.9	1.0 ⊿	1.1	1.3	1.4	1.4	1.4	1.3	1.
.0	1.1	11	√1.1	1.0	4 14.0	1.0 √	4 ^{1.0}	1 1.0	1.0	1.0	<b>1</b> .0	1.1	1.1	1.1	1.0	1.0	0.9	0.9	0.9	1.0	1.1	1.1	1.1 √	1.0	√ 1.0	
. 8	⊲ 0.8	<b>0</b> .8	<b>.</b> 8	0.8	0.7	0.7	0.7	0.7	0.7	• 4.] • .8	.0.8	0.8	2.8	0.8/	0.8	⊿•0.8	•0⊴8 ⊿	0.8	0.8	0.8	0.8	•.8	<b>0</b> .8	<b>0</b> .8	0.7	<u>.</u>
. 6	<u>0.6</u>	0.6	0.6		0.5				0.5			0.6	0.6	- <del>•</del> .6	<b>0</b> .6	0.6	0.6	0.6	0.6	0.6	<del></del>	0.6	0.6	0.5	0.5	•.
														<b>•</b> 0.4												
														<b>0</b> .3												
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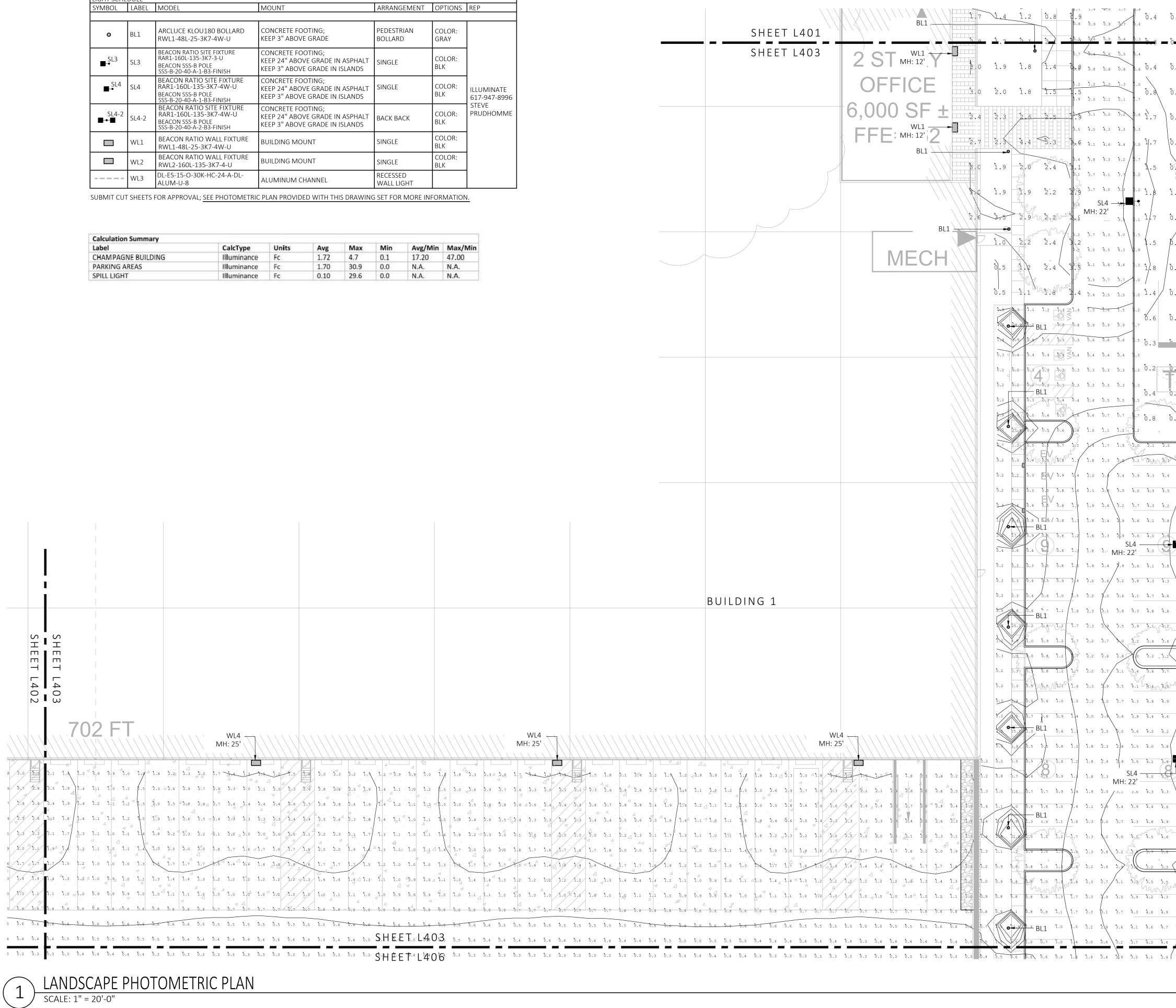
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MICHAEL D'ANGELO landscape architecture
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<mark>CLIENT</mark> BERKELEY PARTNERS 1 WASHINGTON MALL, SUITE 701 BOSTON, MA
<mark>PROJECT</mark> WAREHOUSE / INDUSTRIAL DEV. 100 / 200 FINANCIAL PARK FRANKLIN, MA
STAMP STAMP SSACHUS ACHUS ACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SSACHUS SS
LANDSCAPE PHOTOMETRIC PLAN
DRAWN: AA,NC CHECKED: NC SCALE: AS NOTED DATE: 5/11/2023 SHEET 23 OF 28

LIGHT SCH	EDULE					
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
				-		
o	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
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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMME
	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		

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.



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• • •	+ - -	t.2	•••• ••••	ţ.1		÷.0	<b>.</b> 0.0			¢.0	5	ō.o	•• •••••••••••••••••••••••••••••••••••	÷.0	; / <del>\</del>
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• 0.3	Ō.2	7 1 0.1	0.1	ŧ.1	* • •		, , , , , , , , , , , , , , , , , , ,	•	ð.0	\mathcal{A}	+ 0.0		⁺ 0.0		⁺ 0.1
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to , T	† 0.4×	to.3	0.2	t _{0.1}	[†] 0.1	⁺ 0.0	ţ 0,0	0 .0	Ō,. O	[†] 0.0	0.0	0.0	[†] 0.0	⁺ 0.0	[†] .(
1.0 ⁵	₹ • • • •		~~ ¹ .1	[†] 0.1	[†] 0.0	⁺ 0.0	[†] 0.0	÷.0	ō.0	[†] 0.0	Ō.0	[†] 0.0	[†] 0.0	[†] 0.0	ŧ.(
ō.9/	0.5	• • • • • • • • • • • • • • • •	+	0.1	[†] 0.0	⁺ 0.0	[†] .0	-0.0	[†] .0	[†] .¢	[†] 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	[†] 0.(
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		0.1	* ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		, v				í –	to.0				0.0	•.(
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0.3	⁺o. ∖	[†] 0.1			[†] 0.0		⁺0.0 †0.0		⁺ 0 .0		⁺0.0	€.0 €.0	[†] 0.0	[†] 0.0	† 0. (
	, to.			1			0.0 [†] 0.1		b .o	0.0 [†] .0		0.0 †	⁺0.0	⁺0.0 †0.0	⁺o.(
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*3.6 3.3	1 .	5	• • •.3		2	/	[†] 0.1		þ.o			[†] 0.0	÷.0	÷.0	÷.(
/2 9 *2 4	ŧ.,	E E		1	3		⁺ 0.0	[†] 0.0		⁺ 0.0 -		[†] 0.0		[†] 0.0	[†] 0.(
	, [†] 1./	X	~	ζ	. /		[†] 0.0		[†] о. о	[†] 0.0	Z .0	[†] 0.0	[†] 0.0	⁺ 0.0	÷.,
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\2.9 3.4	†.,	0.5	[†] 0.3	0.2	0.3	÷0.1	[†] 0.1	[†] 0.0	[†] 0.0	[†] 0. 0	C I • A	[†] 0.0	↓ •.0	•••0	[†] 0.0
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3.24	\$ 1 .	[†] .3	0.2	[†] .1	ð.1	* e .1	[†] 0.1	[†] 0.1	ŧ.0	⁺o . d	[†] 0.0	▶0.0	[†] 0.0	0.0	⁺ 0.C
4.0	1	0.4	[†] 0.2	⁺o.2	0. 1	[†] 0.2	>⁺0.1	0.1	ō.o	÷.۰ \	0.0	[†] 0.0	[†] 0.0	[†] 0, 0	[†] 0.C
*3.5	+	0.6	[†] .3	* 0. 2	0. 3	[†] 0.1	[†] 0.1	[†] 0.0	ţ.0	⁺ 0.0	Ъ. 0	[†] 0.0	[†] 0.0	ō.0	⁺o.c
2.4	† 1. ([†] 0.9	[†] 0.5		[†] 0.1		⁺ 0.0	[†] 0.0	[†] .0	•.o	[†] 0.0	[†] 0.0	⁺ 0.0	Ð. 0	\to.c
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¥2.9	¹.€	[†] 0.77		[†] .3		\$.1	0.1			[†] 0 ∕.0		ţ, o	⁺ 0.0	[†] .0	[†] 0.0
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+3.4 -3.4 -3.8	1.6 1.9		0.2 to.2				0.1 ₽.1	0.1 [†] 0.1	[†] .1	*0.0	⁺0.0	to.o ∖to.o ∖	[†] 0.0 [†] 0.0	⁺0.0	⁺.0
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SCALE IN FEET

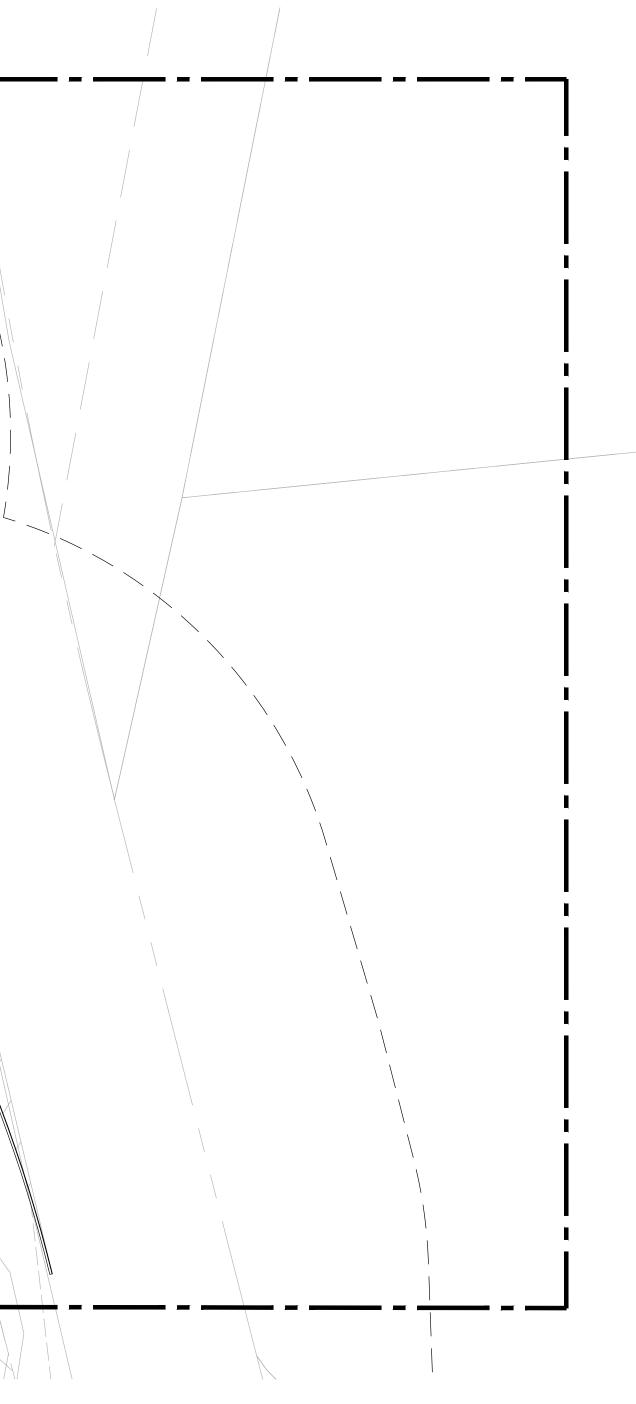


SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
0	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
SL3	SL3	BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH	CONCRETE FOOTING; KEEP 24" ABOVE 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 617-947-899
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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMN
	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]

Calculation Summary											
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/M				
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.				

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,	ō.0	•.0	0.0	ţ.0	[†] 0.0	⁺ 0.0	[†] 0.0 /	[†] 0.0	to.0	÷.0	[†] 0.0	÷.0	Ō.0	ð.0	÷ 0.0	[†] 0.0				
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/	ō.o	÷0.0	[†] 0.0	[†] 0.0	\$.0	[†] .0			+ 0.0+ + + + +	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	* * * * * * * 0 • 0 * *	* * * * * * * * * * * * * 0* *	* * * * * * * * * * * * * * * * * * *					$\langle \rangle$	
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LANDSCAPE PHOTOMETRIC PLAN SCALE: 1" = 20'-0" 1)



MICHAEL D'ANGELO landscape architecture
MICHAEL D'ANGELO LANDSCAPE ARCHITECTURE LLC 840 SUMMER STREET SUITE 201A BOSTON, MA 02127 t. 203.592.4788 www.m-d-l-a.com
CLIENT BERKELEY PARTNERS 1 WASHINGTON MALL, SUITE 701 BOSTON, MA
<mark>PROJECT</mark> WAREHOUSE / INDUSTRIAL DEV. 100 / 200 FINANCIAL PARK FRANKLIN, MA
STAMP SSACHUSE MASSACHUSE SACH
REV. NO.DATEDESCRIPTION5/11/23FOR PERMIT17/17/23RESPONSE TO COMMENTS28/10/23RESPONSE TO COMMENTS38/25/23RESPONSE TO COMMENTS
LANDSCAPE PHOTOMETRIC PLAN
DRAWN: AA,NC CHECKED: NC SCALE: AS NOTED DATE: 5/11/2023 SHEET 25 OF 28

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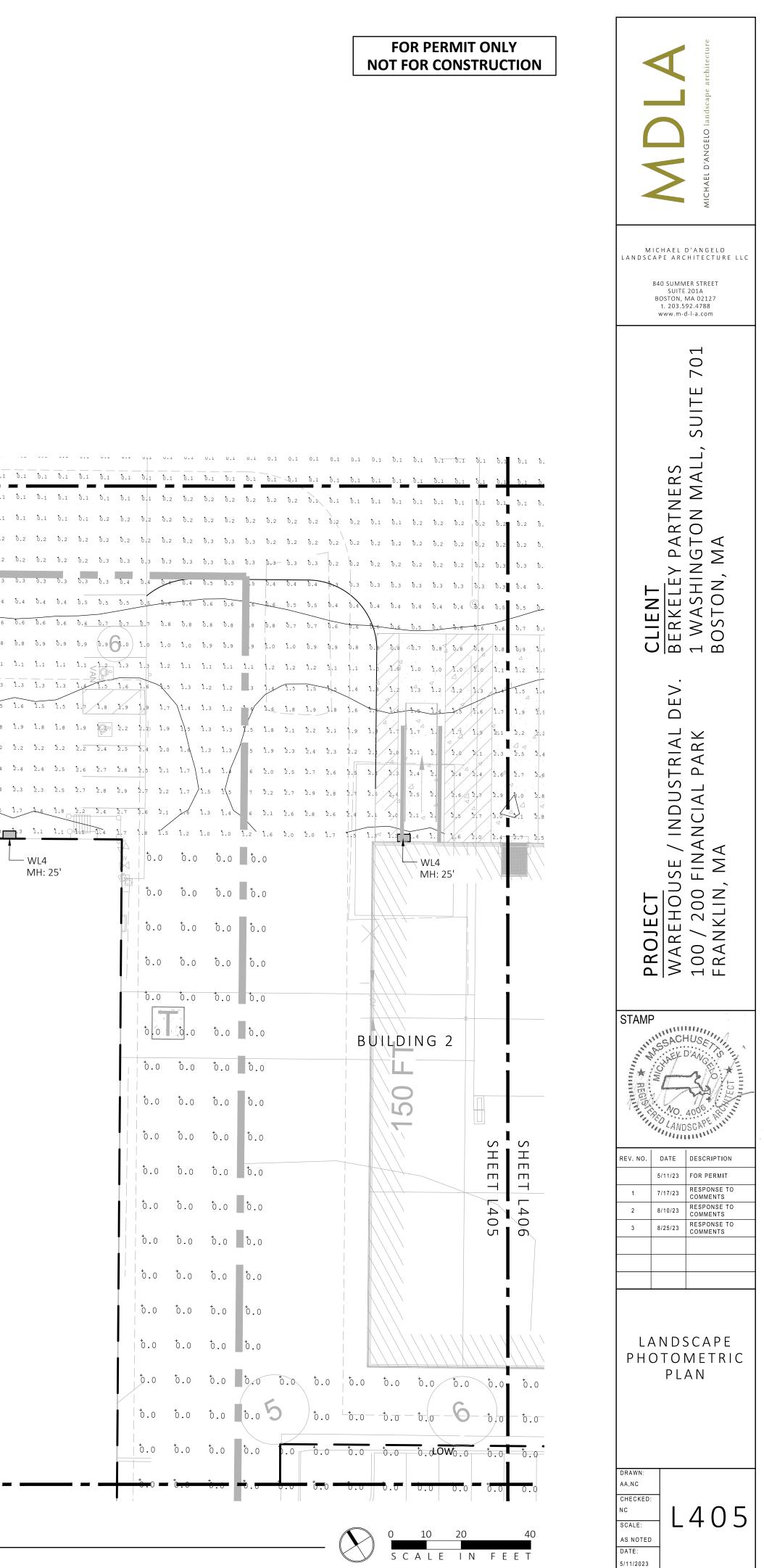


LANDSCAPE PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"

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	4.1 4.0 4.3 4 4 48 4.5 3.4 2.3 U.5 1.0 0.7 0.5 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3
	1.4 - 1.3 1.5 1.0 - 3.4 3.7 / 3.1 2.2 1.5 1.1 0.9 0.7 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.3 0.5 0.7 1.1 1.5 2.0 2.3 2.4 2.2 2.1 2.1 2.1 2.1 2.1 2.1 2.2 2.4 2.4 2.1 1.6 1.3 1.1 1.1 1.6 1.8 2.2 2.4 2.4 2.3 2.2 2.2 2.2
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.1 0.2 0.8 1.1 1.5 2.2 2.6 2.7 2.5 2.2 1.8 1.8 1.8 1.8 2.2 2.5 2.7 2.7 2.2 1.1 1.3 1.1 1.1 1.1 1.8 2.4 2.7 2.5 2.3 1.9 1.6 1.7 1.8 1.5 1.2 1.1 1.0 3.8 1.5 1.2 1.2 1.1 1.0 3.8 1.5 1.2 1.2 1.5 1.5 1.2 1.5 1.5 1.5 1.5 1.5 1.5 1.
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	SHEET L407

LIGHT SCH	EDULE					
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
0	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
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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMME
	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		

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Mir
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.

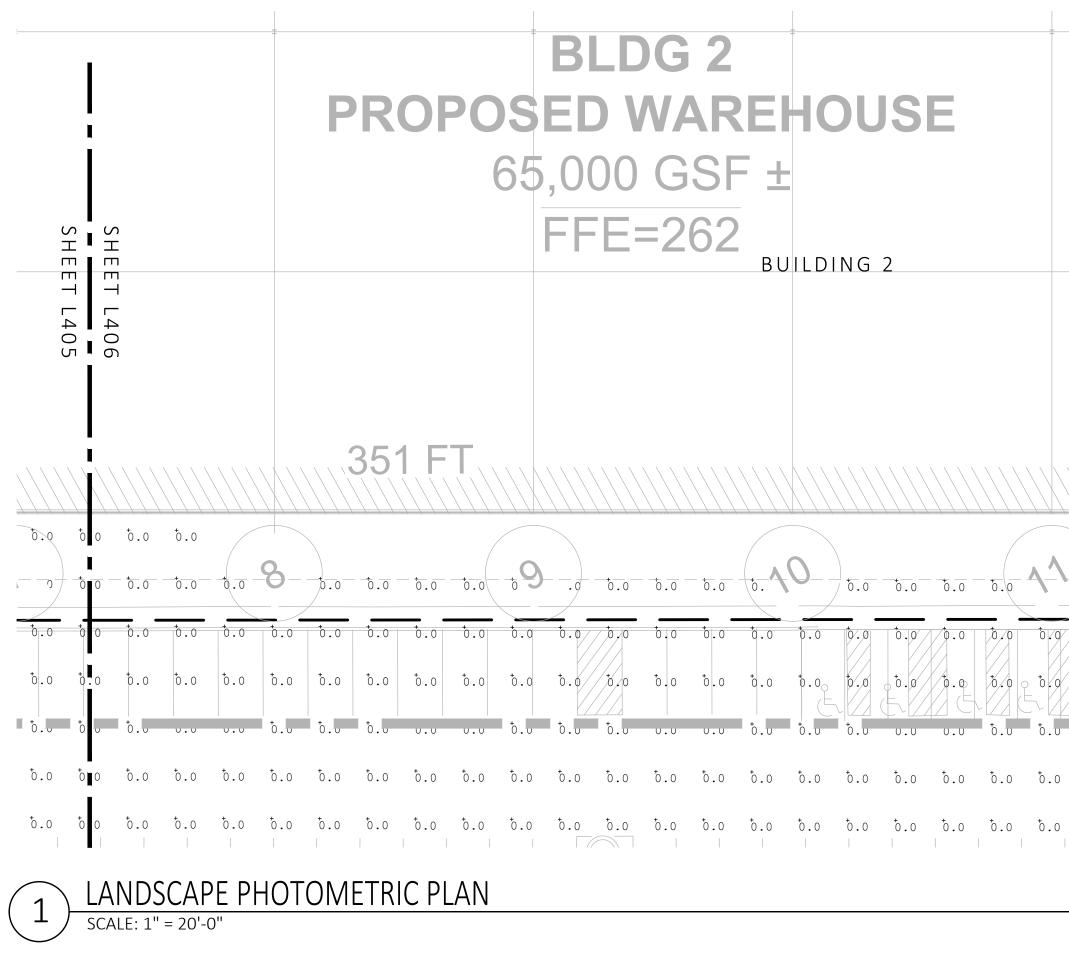


SHEET 26 OF 28

LIGHT SCHE	DULE					
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
				i		
0	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
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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMME
	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		

Calculation	Summary
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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.



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.1 b.1 b.1 b.1 b.1 b.1 b.1 b.1 b.1 b.1 b		.º [†] . [†] [†] .º [†] .º [†] [†] .º [†] [†] [†] .º [†]
.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$.0 to.0 to.0 to.0 to.0 to.0 to.0 to.0 to
.2 d.2 d.2 d.2 d.2 d.2 d.2 d.2 d.2 d.2 d		.0 $b.0$
.3 b.3 b.4 b.4 b.4 b.4 b.5 b.5 b.4 b.4 b.3 b.3 b.3 b.3 b.3 b.3 b.3 b.3 b.3 b.4 .4 b.4 b.5 b <u>.5 b.6 b.6 b.6 b.6 b.6</u> b.5 b.5 b.4 b.4 b.4 b.4 b.4 b.4 b.5 b.5		.0 t.0 t.0 t.0 t.0 t.0 t.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$.0 to.0 to.0 to.0 to.0 to.0 to.
$\begin{array}{c} .3 \\ .3 \\ .6 \\ 1.7 \\ .6 \\ 1.7 \\ .6 \\ 1.7 \\ .6 \\ 1.7 \\ .6 \\ 1.7 \\ .6 \\ 1.7 \\ .6 \\ 1.7 \\ .6 \\ 1.7 \\ .6 \\ 1.8 \\ 1.7 \\ .6 \\ 1.8 \\ 1.7 \\ .1.5 \\ 1.8 \\ 1.7 \\ .1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.6 \\ 1.8 \\ 1.7 \\ .1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.6 \\ 1.8 \\ 1.7 \\ .1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.6 \\ 1.8 \\ 1.7 \\ .1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.6 \\ 1.8 \\ 1.7 \\ .1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.6 \\ 1.8 \\ 1.7 \\ .1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.6 \\ 1.8 \\ 1.7 \\ .1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.6 \\ 1.8 \\ 1.7 \\ .1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.6 \\ 1.8 \\ 1.7 \\ .1.5 \\ 1$	MH: 22' (<u>1</u>)	.0 b.0 b.0 b.0 b.0 b.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$2 = 2.8 2.7 2.1 1 = \sqrt{1.6 1.8 2.2 2.8 3.4 3.9 4.2 4.3 3.8}$	
A 1.7 2.0 2.2 1.9 1.5 1.3 1.6 2.0 2.2 2.0 1.7 1.4 1.1 W3 1.2 1.4 1.8 WL4		
MEC ^{MH: 25'}	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
2 STORY	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
OFFICE	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
6,000 SF ±		as Law des 1/2
		0 0.0 0.0 0.0 0.0 0.0 0.0 0 0.0 0.0 0.0 0.0 0.0 0.0
WL1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
MH: 12'	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
t. 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Sur Sur Sur Sur Sur Sur	0.1 0.2 0.3 0.3 0.4 0.4 0. 1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.	
	0 0 1 0.1 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0	
t. 0 to t. 0 t	$\frac{1}{0.0} - \frac{1}{0.1} + \frac{1}$	o to.o to.o to.o to.o to.o
to.	0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	o to.o to.o to.o to.o
to 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5.0 5.0	o ō.o ō.o ō.o ō.o
	··· o t.o t.o t.o t.o t.o t.o t.o t.o t.o t	0 [†] 0.0 [†] 0.0 [†] 0.0
LOW 0.0 <th>0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0</th> <th>o ō.o ō.o</th>	0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	o ō.o ō.o
$\dot{\mathbf{b}} \cdot 0 = \dot{\mathbf{b}} \cdot 0 = \mathbf{$	0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 0.0
	0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	
	5.0 b.0 b.0 b.0 b.0 b.0 b.0 b.0 b.0 b.0 b	
		0 10 20 40
		SCALE IN FEET

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LIGHT SCHE	EDULE					
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
				1		
0	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
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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMME
	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		

b.0 $b.0$ $b.1$ $b.1$ $b.1$ $b.1$ $b.1$ $b.1$ $b.0$		SHEET L405	0.0 0.0
b.o		SHEET L407	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
b.o	BUILDING 3		t.o
$\dot{5.0}$ \dot			to.o to.o to.o to.o to.o to.o to.o to.o
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2.0 \$ 2.4 2.5 2.1 2.1 2.1 2.1 2.1 2.0 2.2 2.5	$\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{2}$, $\frac{1}{3}$,
	$\begin{array}{c} \mathbb{R} \\ $	22 27 30 2 MH: 25' 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\cdot
$\langle \rangle$	5 2.4 2.3 2.3 2.3 2.3 2.3 2.4 2.54 2.6 2.4 2.0 1.7 1.6 1.7 2.1 2.4 5.6 2.5 3. 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}{} \\ \end{array}{} \\ \end{array}{} \\ \begin{array}{c} \\ \end{array}{} \\ \end{array}{} \\ \end{array}{} \\ \begin{array}{c} \\ \end{array}{} \\ \end{array}{} \\ \end{array}{} \\ \begin{array}{c} \\ \end{array}{} \\ \end{array}{} \\ \end{array}{} \\ \end{array}{} \\ \end{array}{} \\ \begin{array}{c} \\ \end{array}{} \\ \begin{array}{c} \end{array}{} \\ \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2.0 1.6 1.0 0.5 0.2 0.1 0.1 0.0
$\sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i$	$ \begin{array}{c} 7 & 1 \\ \hline & 1.5 \\ \hline & 1.4 \\ \hline & 1.4 \\ \hline & 1.4 \\ \hline & 1.4 \\ \hline & 1.6 \\ \hline & 1.7 \\ \hline & 1.8 \\ \hline & 1.7 \\ \hline & 1.6 \\ \hline & 1.7 \\ \hline & 1.8 \\ \hline & 1.4 \\ \hline & 1.8 \\ $		
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\frac{1}{5}$ $\frac{5}{6}$ $\frac{5}{6}$ $\frac{1}{6}$ $\frac{1}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	
	5 $b.4$ $b.4$ $b.4$ $b.4$ $b.4$ $b.4$ $b.5$ $b.5$ $b.6$ $b.6$ $b.7$ $b.7$ $b.7$ $b.8$ $b.8$ $b.7$ $b.7$ $b.7$ $b.7$ $b.6$ $b.7$ $b.8$ $b.9$ $b.$		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 0.4 0.3 0.3 0.3 0.4 0.5 0.6 0.8 0.9 1.0 1.0 1.0 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0		b.5 $b.1$ $b.3$ $b.2$ $b.1$ $b.1$ $b.0$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7 0.5 0.4 0.3 0.3 0.3 0.4 0.5 0.7 0.9 1.2 1.3 1.4 1.4 1.3 1.2 1.2 1.3 1.3 1.3 1.4 1.3 1.1 0.9 0.7 0.6 0.5 0.6 0.8 1.0 1/4 1.8 2.1	.1 2.0 1.9 1.8 1.8 1.8 1.9 2.0 2.1 1.9 1.6 1.2 0.8	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 1.0 0.6 0.4 0.3 0.3 0.4 0.5 0.8 1.2 1.8 2.4 2.7 2.7 2.5 2.3 2.3 2.3 2.3 2.5 2.7 2.6 2.3 1.1 1.2 0.8 0.6 0.5 0.6 0.8 1.1 1.8 2.6 3.3 3	<u>.8</u> 2.7 2.4 2.3 2.4 2.3 2.5 2.7 2.8 2.5 2.0 1.4 0.9	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$.0 3.8 3.5 3.5 3.6 3.5 3.6 3.8 4.0 3.6 2.5 1.6 0.9	.6 d. b.2 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SIA 3-7 3.7 3.7 4 2 4 4 4 4 4	$\frac{1}{10.4} = \frac{1}{0.2} \int_{0.1 \text{ LOV}_{0.1}}^{0.1 \text{ LOV}_{0.1}} \tilde{0} \cdot 0 \tilde{0} \tilde{0} \cdot 0 0$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			b.2 b.1 b.1 b.0 b.0 b.0 b.0 b.0 b.0 b.0 b.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.4 0.6 1.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.2 0.4 0.6 1.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.2 0.4 0.6 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.2 0.4 0.6 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.2 0.4 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.4 0.6 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.4 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.4 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.4 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.4 0.6 0.0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\$\overline{0}.2\$ \$\overline{0}.3\$ \$\overline{0}.3\$ \$\overline{0}.2\$ \$\overline{0}.1\$ \$\overline{0}.1\$	$\overline{0.0}$ \overline
(1) (1) (1) (1) (1) (1) (1) (1)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	⁶ .2 ⁶ .2 ⁶ .1 ⁶ .2 ⁶ .3 ⁶ .1 ⁶ .1 ⁶ .1	
0 b.0 b.0 b.0 b.0 b.0 b.0 b.0 b.0 b.0 b.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
0 $\overline{0.0}$ $\overline{0.2}$ $\overline{0.1}$ $\overline{0.1}$ $\overline{0.2}$ $\overline{0.2}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
0 \$.0 \$.0 \$.0 \$.0 \$.0 \$.0 \$.0 \$.0 \$.0 \$.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0 \$.0 \$.0 \$.0 \$.0 \$.0 \$.0 \$.0 \$.0 \$.0 \$.			
c t.o	b.o b	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
LANDSCAPE PHOTOMETRIC PLAN			
SCALE: 1" = 20'-0"			SCALE IN FEET

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

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.

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