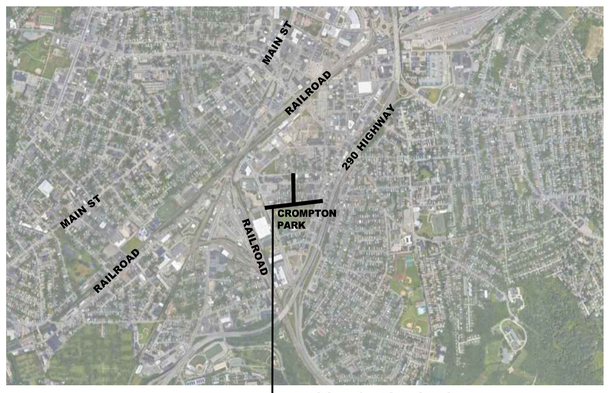
CITY OF WORCESTER

GREEN ISLAND PHASE II

WORCESTER, MASSACHUSETTS 01610



ENDICOTT & BIGELOW ST
Locus Map

BID DOCUMENTS

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MAY 27, 2025

Prepared By

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GENERAL NOTES:

1. FIELD SURVEY PERFORMED BY NORTHEAST SURVEY CONSULTANTS, PC USING EDM TOTAL STATION AND RTK GPS IN OCTOBER & NOVEMBER 2022, WITH A SMALL ADDITIONAL PORTION IN THE NW CORNER IN JANUARY 2023.
2. THE HORIZONTAL DATUM IS NAD83 (MASS. MAINLAND) AND THE VERTICAL DATUM IS NAVD88. BOTH WERE DERIVED FROM RTK GPS OBSERVATIONS TAKEN ON SITE.
3. THIS IS NOT A BOUNDARY SURVEY. NO WORK TO DEFINE ANY BOUNDARY LINES HAS BEEN PERFORMED AND LINES SHOWN HEREON ARE BASED UPON GIS.
4. THE LOCATIONS OF UTILITIES SHOWN HEREON ARE THE RESULT OF SURFACE EVIDENCE AND OPENING STRUCTURES AS SHOWN. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION OF THESE UTILITIES AND MAY NOT SHOW ALL OF THE UTILITIES WHICH EXIST WITHIN THE PREMISES SURVEYED. CONTACT DIG-SAFE AT 1-888-344-7233 BEFORE EXCAVATION.
5. THE LOCUS PARCELS ARE LOCATED IN THE CITY OF WORCESTER RG-5 ZONING DISTRICT.
6. ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE SURVEY AREA IS LOCATED IN AREAS DESIGNATED AS ZONE AE.
7. LOCATIONS OF ANY UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF SUCH UTILITIES, PROTECTING ALL EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE COORDINATION WITH UTILITY COMPANIES AND PUBLIC AGENCIES AND FOR OBTAINING ALL REQUIRED PERMITS AND PAYING ALL REQUIRED FEES. IN ACCORDANCE WITH M.G.L. CHAPTER 82, SECTION 40, INCLUDING AMENDMENTS, CONTRACTORS SHALL NOTIFY ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING PRIOR TO EXCAVATION. CONTRACTOR SHALL ALSO CALL "DIG SAFE" AT (888) 344-7233 NO LESS THAN 72 HOURS, (EXCLUSIVE OF WEEKENDS AND HOLIDAYS), PRIOR TO SUCH EXCAVATION. DOCUMENTATION OF REQUESTS SHALL BE PROVIDED TO OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION WORK.
8. 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'S REPRESENTATIVE FOR RESOLUTION OF THE CONFLICT.
9. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY OWNER AT NO ADDITIONAL COST TO THE CITY OF WORCESTER
10. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE EXTENT OF EXCAVATION AND DEMOLITION REQUIRED TO RECEIVE SITE IMPROVEMENTS.
11. ANY DISCREPANCIES OR CONFLICTS BETWEEN THE DRAWINGS AND EXISTING CONDITIONS, EXISTING CONDITIONS TO REMAIN, TEMPORARY CONSTRUCTION, PERMANENT CONSTRUCTION AND WORK OF ADJACENT CONTRACTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING. ITEMS ENCOUNTERED IN AREAS OF EXCAVATION THAT ARE NOT INDICATED ON THE DRAWINGS, BUT ARE VISIBLE ON SURFACE, SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REMOVED AT NO ADDITIONAL COST TO THE OWNER.
12. ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE GENERAL CONTRACTOR ON "AS BUILT" DRAWINGS.
13. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS OUTSIDE THE PROJECT LIMITS, SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.
14. ALL WORK SHOWN ON THE PLANS AS BOLD SHALL REPRESENT PROPOSED WORK. THE TERM "PROPOSED (PROP)" INDICATES WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET (R&R)" OR "REMOVE AND SALVAGE (R&S).
15. ALL KNOWN EXISTING STATE, COUNTY AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND ARE INDICATED ON THE PLANS.
16. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT HIS EMPLOYEES, AS WELL AS PUBLIC USERS FROM INJURY DURING THE ENTIRE CONSTRUCTION PERIOD USING ALL NECESSARY SAFEGUARDS, INCLUDING BUT NOT LIMITED TO, THE ERECTION OF TEMPORARY WALKS, STRUCTURES, PROTECTIVE BARRIERS, COVERING, OR FENCES AS NEEDED.
17. THE CONTRACTOR SHALL SUPPLY THE OWNER WITH THE NAME OF THE OSHA "COMPETENT PERSON" PRIOR TO CONSTRUCTION.
18. FILLING OF EXCAVATED AREAS SHALL NOT TAKE PLACE WITHOUT THE PRESENCE OR PERMISSION OF THE OWNER.
19. EXISTING TREES TO REMAIN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. NO STOCKPILING OF MATERIAL, EQUIPMENT OR VEHICULAR TRAFFIC SHALL BE ALLOWED WITHIN THE DRIP LINE OF TREES TO REMAIN. NO GUYS SHALL BE ATTACHED TO ANY TREE TO REMAIN. WHEN NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL ERECT TEMPORARY BARRIERS FOR THE PROTECTION OF EXISTING TREES DURING CONSTRUCTION.
20. TREES AND SHRUBS WITHIN THE LIMITS OF WORK SHALL BE REMOVED ONLY UPON THE APPROVAL OF THE OWNER'S REPRESENTATIVE OR AS NOTED ON THE PLANS.
21. NO FILLING SHALL OCCUR AROUND EXISTING TREES TO REMAIN WITHOUT THE APPROVAL OF THE OWNER OR OWNER REPRESENTATIVE.
22. THE CONTRACTOR SHALL REMOVE ALL SURFACE VEGETATION PRIOR TO GRADING THE SITE. TREES AND STUMPS SHALL BE REMOVED AND DISPOSED COMPLETE BY CONTRACTOR. TEMPORARY EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS (INCLUDING SILT FENCE, STRAW WATTLES, OR SILT SOCKS) AND SEDIMENT CURTAINS SHALL BE INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE PROJECT WHICH COST SHALL BE INCIDENTAL TO THE PROJECT.
23. ALL UNSUITABLE EXCESS SOIL FROM CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY. REMOVAL ACTIVITIES SHALL BE ACCORDANCE WITH STATE AND LOCAL REGULATIONS AT NO ADDITIONAL COST TO THE TOWN. REFER TO WORCESTER CITY BY-LAWS REGARDING EARTH MOVEMENT. SUITABLE SOIL EXCAVATION AS PART OF THE PROJECT MUST MEET ONE OR MORE OF THE MATERIAL REQUIREMENTS SPECIFIED IN 31 00 00-EARTHWORK. IF THE CONTRACTOR PROPOSES TO USE THE EXISTING FILL ON SITE BELOW PAVEMENT AREAS, HE MUST DEMONSTRATE THAT THE FILL MEETS THE REQUIREMENTS PER THE SPECIFICATIONS. ALL EXCAVATED FILL MATERIAL WHICH DOES NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE REMOVED AND DISPOSED OF OFF-SITE AT NO ADDITIONAL COST.
24. CONTRACTOR IS RESPONSIBLE FOR STAKING CONSTRUCTION BASELINES IN FIELD WITH A MA. REGISTERED PROFESSIONAL LAND SURVEYOR. NO CONSTRUCTION WILL BE PERFORMED WITHOUT THE PROPOSED BASELINES AND LAYOUTS APPROVED BY THE ENGINEER.
25. NO FILL SHALL CONTAIN HAZARDOUS MATERIALS.
26. CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCING AROUND PERIMETER OF WORK AREA (LIMIT OF WORK). FENCE SHALL NOT IMPEDE TRAVEL WAYS.
27. ANY QUANTITIES SHOWN ON PLANS ARE FOR COMPARATIVE BIDDING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE PROJECT SITE TO VERIFY ALL QUANTITIES AND CONDITIONS PRIOR TO SUBMITTING BID.
28. ALL EXISTING DRAINAGE FACILITIES TO REMAIN SHALL BE MAINTAINED FREE OF DEBRIS, SOIL, SEDIMENT, AND FOREIGN MATERIAL AND OPERATIONAL THROUGHOUT THE LIFE OF THE CONTRACT. REMOVE ALL SOIL, SEDIMENT, DEBRIS AND FOREIGN MATERIAL FROM ALL DRAINAGE STRUCTURES, INCLUDING BUT NOT LIMITED TO, DRAINAGE INLETS, MANHOLES AND CATCH BASINS WITHIN THE LIMIT OF WORK AND DRAINAGE STRUCTURES OUTSIDE THE LIMIT OF WORK THAT ARE IMPACTED BY THE WORK FOR THE ENTIRE DURATION OF CONSTRUCTION.
29. CONTRACTOR'S STAGING AREA MUST BE WITHIN THE CONTRACT LIMIT LINE AND IN AREAS APPROVED BY OWNER. ANY OTHER AREAS THAT THE CONTRACTOR MAY WISH TO USE FOR STAGING MUST BE COORDINATED WITH THE OWNER.
30. THE CONTRACTOR SHALL KEEP ALL STREETS, PARKING LOTS AND WALKS THAT ARE NOT RESTRICTED FROM PUBLIC USE DURING CONSTRUCTION BROOM CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE ACCEPTABLE METHODS AND MATERIALS TO MAINTAIN ADEQUATE DUST CONTROL THROUGHOUT CONSTRUCTION.
31. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.
32. THE LIMIT OF WORK SHALL BE DELINEATED IN THE FIELD PRIOR TO THE START OF SITE CLEARING OR CONSTRUCTION AND AGREED UPON WITH THE OWNER'S REPRESENTATIVE.
33. DEEP SUMP CATCH BASINS AND STORMWATER BASINS SHALL BE CLEANED FOLLOWING CONSTRUCTION AND SHALL FOLLOW THE OPERATION AND MAINTENANCE PLAN THEREAFTER.
34. HAULING OF EARTH MATERIALS TO AND FROM THE SITE SHALL BE RESTRICTED TO THE HOURS OF 7 AM TO 5 PM.
35. ANY BOULDERS 3 CY OR SMALLER SHALL BE CONSIDERED UNDOCUMENTED FILL AND SHALL BE DISPOSED OF AT NO ADDITIONAL COST TO THE CITY.
36. WORK ON WEEKENDS SHALL ONLY BE CONDUCTED IF PRIOR WRITTEN PERMISSION IS PROVIDED BY THE CITY.
37. NO TRUCKS SHALL BE LEFT IDLING ON CITY STREETS DURING CONSTRUCTION. CONSTRUCTION TRAFFIC AT NO TIME SHALL IMPEDE FLOW OF RESIDENT TRAFFIC.

DEMOLITION & SITE PREPARATION NOTES:

1. THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF REMOVING ANY EXISTING SITE FEATURES AND APPURTENANCES NECESSARY TO ACCOMPLISH THE CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS. THE CONTRACTOR SHALL ALSO INCLUDE IN THE BID THE COST NECESSARY TO RESTORE SUCH ITEMS IF THEY ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO PLANS TO DETERMINE EXCAVATION AND DEMOLITION REQUIREMENTS AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.
2. THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS. IF THE OWNER RETAINS ANY MATERIAL THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER TO HAVE THOSE MATERIALS REMOVED OFF SITE TO A DESIGNATED MUNICIPAL PROPERTY AT NO ADDITIONAL COST, ALL GEOTECHNICALLY OR UNSUITABLE EXCESS SOIL FROM CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY. REMOVAL ACTIVITIES SHALL BE ACCORDANCE WITH STATE AND LOCAL REGULATIONS AT NO ADDITIONAL COST TO THE CITY.
3. UNLESS SPECIFICALLY NOTED TO BE REMOVED AND STOCKPILED (R&S) OR REUSED AND RELOCATED (R&R), ALL SITE FEATURES CALLED TO BE REMOVED AND DEMOLISHED (R&D) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC. TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO ADDITIONAL COST TO THE OWNER.
4. ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AND/OR OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
5. DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN, OUTSIDE THE LIMITS OF EXCAVATION AND BACKFILL AND SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE, TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.
6. STRIP & STOCKPILE EXISTING TOPSOIL FOR LATER REUSE AS REQUIRED. STOCKPILE SHALL HAVE APPROPRIATE EROSION AND SEDIMENT CONTROLS. THE CONTRACTOR SHALL CONFIRM THROUGH ALL REQUIRED TESTING THAT THE TOPSOIL IS SUITABLE FOR REUSE AND IT MEETS THE REQUIREMENTS OF THE SPECIFICATIONS FOR TOPSOIL LOAM BORROW AT NO ADDITIONAL COST TO THE OWNER.
7. CLEAR AND GRUB VEGETATION SHALL INCLUDE REMOVAL OF ALL GRASS/LAWN, SHRUBS, AND UNDERBRUSH, REMOVAL OF ROOTS, AND ROUGH GRADING. INSTALLATION OF LOAM (IF APPLICABLE), FINE GRADING, SEEDING AND TURF OR VEGETATION ESTABLISHMENT BY THE CONTRACTOR.
8. THE CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN. CONTRACTOR SHALL INSTALL TREE PROTECTION BARRIERS AFTER CLEARING TURF AND UNDERBRUSH BY HAND AND TAKE DUE CARE TO PREVENT INJURY TO TREES DURING CLEARING OPERATIONS.

EROSION AND SEDIMENT CONTROL NOTES

1. 3' HT TEMPORARY ORANGE SNOW FENCE TO BE INSTALLED ALONG WETLAND AREA.
2. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PUT INTO PLACE PRIOR TO BEGINNING ANY CONSTRUCTION OR DEMOLITION. REFER TO PLANS FOR APPROXIMATE LOCATION OF EROSION AND SEDIMENT CONTROL. REFER TO SPECS AND DETAILS FOR TYPE OF EROSION AND SEDIMENT CONTROL.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUAL MAINTENANCE OF ALL CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
4. CONTRACTOR SHALL MEET ALL OF THE STATE OF MASSACHUSETTS AND THE CITY OF WORCESTER WETLAND ORDINANCE REGULATIONS FOR SEDIMENT AND EROSION CONTROL.
5. EXCAVATED MATERIAL STOCKPILED ON THE SITE SHALL BE SURROUNDED BY A RING OF UNBROKEN SEDIMENT AND EROSION CONTROL FENCE. THE LIMITS OF ALL GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMIT OF CONTRACT SHALL REMAIN TOTALLY UNDISTURBED UNLESS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.
6. ALL CATCH BASINS AND DRAIN GRATES WITHIN THE LIMIT OF WORK SHALL BE PROTECTED WITH SILT SACKS DURING THE ENTIRE DURATION OF CONSTRUCTION.
7. EROSION CONTROL BARRIERS TO BE INSTALLED AT THE TOE OF SLOPES. SEE GRADING & DRAINAGE PLANS, NOTES, DETAILS AND SPECIFICATIONS.
8. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED BY THE OWNER'S REPRESENTATIVE AND MASSACHUSETTS D.E.P. REQUIREMENTS.
9. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC/PRIVATE ROADS.
10. ALL MATERIAL HAULING VEHICLES SHALL BE COMPLETELY COVERED PRIOR TO LEAVING THE SITE.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR WHEEL CLEANING OF ALL CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE. CONTRACTOR SHALL ENSURE THAT MATERIAL HAULING VEHICLES REMAIN ON PAVED SURFACES AS MUCH AS POSSIBLE

LAYOUT NOTES:

1. COORDINATE ALL LAYOUT ACTIVITIES WITH THE SCOPE OF WORK CALLED FOR BY DEMOLITION, GRADING AND UTILITIES OPERATIONS ENCOMPASSED BY THIS CONTRACT. SET, PROTECT AND REPLACE REFERENCE STAKES AS NECESSARY OR AS REQUIRED BY THE OWNER'S REPRESENTATIVE.
2. ALL WORK SHALL BE PERFORMED BY CONTRACTOR UNLESS SPECIFICALLY INDICATED THAT THE WORK WILL BE PERFORMED "BY OWNER".
3. THE LAYOUT OF SITE AMENITIES AND FENCES MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4. ALL PROPOSED SITE FEATURES SHALL BE LAID OUT AND STAKED FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF INSTALLATION. ANY REQUIRED ADJUSTMENTS TO THE LAYOUT SHALL BE UNDERTAKEN AS DIRECTED, AT NO ADDITIONAL COST TO THE OWNER.
5. ALL PROPOSED PAVEMENTS SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES AND SHALL BE TREATED WITH AN RS-1 TACK COAT AT POINT OF CONNECTION. ALL PATHWAY WIDTHS SHALL BE AS NOTED ON THE LAYOUT AND MATERIALS PLAN.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS OF ALL PROPOSED FENCES, GATES.

GRADING & DRAINAGE NOTES:

1. ALL WORK RELATING TO INSTALLATION, RENOVATION OR MODIFICATION OF DRAINAGE SERVICES SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE CITY OF WORCESTER AND ITS DEPARTMENT OF PUBLIC WORKS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES AND INVERT ELEVATIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER AND OWNER'S REPRESENTATIVE.
3. ALL NEW WALKWAYS MUST CONFORM TO DRAWINGS AND TO CURRENT AMERICANS WITH DISABILITIES ACT (ADA) REGULATIONS: WALKWAYS SHALL MAINTAIN A CROSS PITCH OF NOT MORE THAN TWO (2%) PERCENT MAXIMUM AND THE RUNNING SLOPE (PARALLEL TO THE DIRECTION OF TRAVEL) OF FIVE (5%) PERCENT MAXIMUM.
4. MINIMUM SLOPE ON ALL WALKWAYS WILL BE 1:100 OR 1% TO PROVIDE POSITIVE DRAINAGE. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK.
5. ALL UTILITY GRATES, COVERS OR OTHER SURFACE ELEMENTS INTENDED TO BE EXPOSED AT GRADE SHALL BE FLUSH WITH THE ADJACENT FINISHED GRADE AND ADJUSTED TO PROVIDE A SMOOTH TRANSITION AT ALL EDGES.
6. THE CONTRACTOR SHALL SET SUBGRADE ELEVATIONS TO ALLOW FOR POSITIVE DRAINAGE AND PROVIDE EROSION CONTROL DEVICES, STRUCTURES, MATERIALS AND CONSTRUCTION METHODS TO DIRECT SILT MIGRATION AWAY FROM DRAINAGE AND OTHER UTILITY SYSTEMS, PUBLIC/ PRIVATE STREETS AND WORK AREAS. CLEAN BASINS REGULARLY AND AT THE END OF THE PROJECT.
7. CONTRACTOR SHALL ENSURE ALL AREAS ARE PROPERLY PITCHED TO DRAIN, WITH NO SURFACE WATER PONDING OR PUDDLING.
8. EXCAVATION REQUIRED WITHIN PROXIMITY OF KNOWN 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.
9. WHERE NEW EARTHWORK MEETS EXISTING EARTHWORK, CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR POUNDS AT ALL TOP AND BOTTOM OF SLOPES.
10. WHERE A SPECIFIC LIMIT OF WORK LINE IS NOT OBVIOUS OR IMPLIED, BLEND GRADES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CONTOURS.
11. RESTORE ALL DISTURBED AREAS AND LIMITS OF ALL REMOVALS TO LOAM AND SPECIFIED CONSERVATION SEED MIX UNLESS OTHERWISE NOTED.
12. WHERE NEW IMPROVEMENTS MEET EXISTING CONDITIONS, MEET LINE AND GRADE OF EXISTING ADJACENT PAVEMENTS, TYPICAL.

Project:
GREEN ISLAND PHASE II

WORCESTER, MA 01610

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Revisions:

No.	Date	Description

COA:

Seal:
MASSACHUSETTS
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No. 40437
REGISTERED PROFESSIONAL ENGINEER

Issued For:
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Drawing Title:
GENERAL NOTES

Sheet Number:
L001

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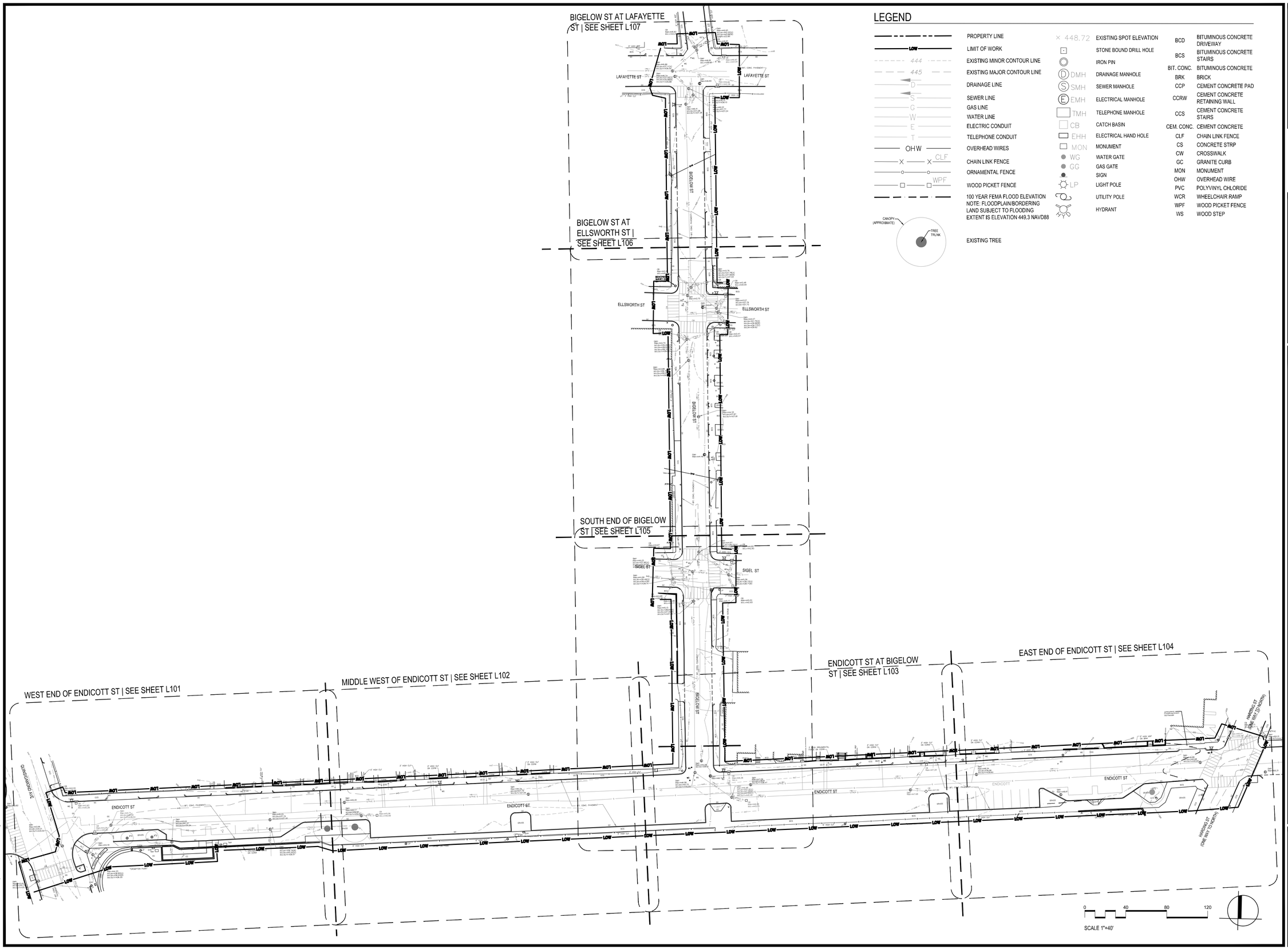

LEGEND

PROPERTY LINE	× 448.72	EXISTING SPOT ELEVATION	BCD	BITUMINOUS CONCRETE DRIVEWAY
LIMIT OF WORK		STONE BOUND DRILL HOLE	BCS	BITUMINOUS CONCRETE STAIRS
EXISTING MINOR CONTOUR LINE		IRON PIN	BIT. CONC.	BITUMINOUS CONCRETE
EXISTING MAJOR CONTOUR LINE	DMH	DRAINAGE MANHOLE	BRK	BRICK
DRAINAGE LINE	SMH	SEWER MANHOLE	CCP	CEMENT CONCRETE PAD
SEWER LINE	EMH	ELECTRICAL MANHOLE	CCRW	CEMENT CONCRETE RETAINING WALL
GAS LINE	TMH	TELEPHONE MANHOLE	CCS	CEMENT CONCRETE STAIRS
WATER LINE	CB	CATCH BASIN	CEM. CONC.	CEMENT CONCRETE
ELECTRIC CONDUIT	EHH	ELECTRICAL HAND HOLE	CLF	CHAIN LINK FENCE
TELEPHONE CONDUIT	MON	MONUMENT	CS	CONCRETE STRP
OVERHEAD WIRES	WG	WATER GATE	CW	CROSSWALK
CHAIN LINK FENCE	GG	GAS GATE	GC	GRANITE CURB
ORNAMENTAL FENCE		SIGN	MON	MONUMENT
WOOD PICKET FENCE	LP	LIGHT POLE	OHW	OVERHEAD WIRE
100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88		UTILITY POLE	PVC	POLYVINYL CHLORIDE
		HYDRANT	WCR	WHEELCHAIR RAMP
			WPF	WOOD PICKET FENCE
			WS	WOOD STEP

CANOPY (APPROXIMATE) — TREE TRUNK

EXISTING TREE

Project:
GREEN ISLAND PHASE II
WORCESTER, MA 01610

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OVERALL EXISTING CONDITIONS PLAN

Sheet Number:
L100

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P:\MA\Worcester\MA3N2001\998 Endicott Complete Streets\CAD\Sheet Set\L100-ES.dwg

QUINSIGAMOND AVE

ENDICOTT ST

"CROMPTON PARK"

MATCH LINE SEE SHEET L102

BIT. CONC. PAVEMENT

ORNAMENTAL FENCE ON CCRW

3' HIGH CLF

SMH
RIM=443.66
INV.IN=434.21
INV.OUT=434.02

CB
RIM=443.44
INV.=440.24

CB
RIM=443.83
INV.=440.28

SMH
RIM=444.71
INV.IN=438.59
INV.OUT=438.54

CB
RIM=444.25
INV.=440.80

SMH
RIM=444.19

DMH
RIM=444.23
INV.IN=436.82(A)
INV.IN=436.64(B)
INV.OUT=436.25

DMH
RIM=445.64
INV.IN=441.37
INV.OUT=436.54

SMH
RIM=445.25
INV.IN=437.75
INV.OUT=437.45

DMH
RIM=445.32
INV.IN=439.75(B)
INV.IN=440.20(A)
INV.OUT=439.57

GRASS

8"D

12"RCP S

12"PVC

12"RCP D

24"RCP

6"PVC

LEGEND

PROPERTY LINE	
LIMIT OF WORK	LOW
EXISTING MINOR CONTOUR LINE	444
EXISTING MAJOR CONTOUR LINE	445
DRAINAGE LINE	D
SEWER LINE	S
GAS LINE	G
WATER LINE	W
ELECTRIC CONDUIT	E
TELEPHONE CONDUIT	T
OVERHEAD WIRES	OHW
CHAIN LINK FENCE	CLF
ORNAMENTAL FENCE	
WOOD PICKET FENCE	WPF
100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88	
EXISTING TREE (CANOPY (APPROXIMATE), TREE TRUNK)	

× 448.72	EXISTING SPOT ELEVATION
	STONE BOUND DRILL HOLE
	IRON PIN
D DMH	DRAINAGE MANHOLE
S SMH	SEWER MANHOLE
E EMH	ELECTRICAL MANHOLE
TMH	TELEPHONE MANHOLE
CB	CATCH BASIN
EHH	ELECTRICAL HAND HOLE
MON	MONUMENT
WG	WATER GATE
GG	GAS GATE
	SIGN
LP	LIGHT POLE
	UTILITY POLE
	HYDRANT

BCD	BITUMINOUS CONCRETE DRIVEWAY
BCS	BITUMINOUS CONCRETE STAIRS
BIT. CONC.	BITUMINOUS CONCRETE
BRK	BRICK
CCP	CEMENT CONCRETE PAD
CCRW	CEMENT CONCRETE RETAINING WALL
CCS	CEMENT CONCRETE STAIRS
CEM. CONC.	CEMENT CONCRETE
CLF	CHAIN LINK FENCE
CS	CONCRETE STRP
CW	CROSSWALK
GC	GRANITE CURB
MON	MONUMENT
OHW	OVERHEAD WIRE
PVC	POLYVINYL CHLORIDE
WCR	WHEELCHAIR RAMP
WPF	WOOD PICKET FENCE
WS	WOOD STEP

0 10 20 30

SCALE 1"=10'

Project:
GREEN ISLAND PHASE II

WORCESTER, MA 01610

Weston & Sampson

Weston & Sampson Engineers, Inc.
85 Devonshire Street, 3rd Floor
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Consultants:

Revisions:

No.	Date	Description

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Seal:

MASSACHUSETTS
Brandon Mikkelsen
No. 4040
REGISTERED LANDSCAPE ARCHITECT

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Drawing Title:
EXISTING CONDITIONS ENLARGEMENT PLAN

Sheet Number:
L101

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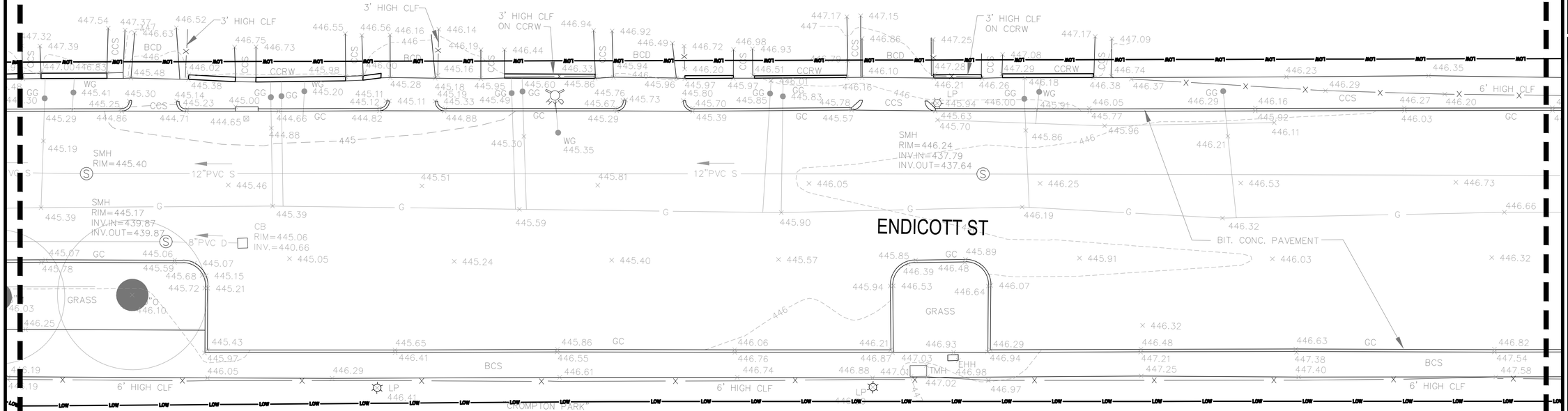
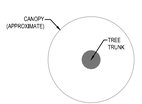
MATCHLINE SEE SHEET L101

MATCHLINE SEE SHEET 103

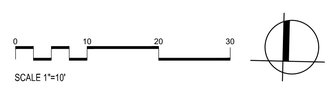


LEGEND

	PROPERTY LINE	× 448.72	EXISTING SPOT ELEVATION	BCD	BITUMINOUS CONCRETE DRIVEWAY
LOW	LIMIT OF WORK		STONE BOUND DRILL HOLE	BCS	BITUMINOUS CONCRETE STAIRS
444	EXISTING MINOR CONTOUR LINE		IRON PIN	BIT. CONC.	BITUMINOUS CONCRETE
445	EXISTING MAJOR CONTOUR LINE	D DMH	DRAINAGE MANHOLE	BRK	BRICK
D	DRAINAGE LINE	S SMH	SEWER MANHOLE	CCP	CEMENT CONCRETE PAD
S	SEWER LINE	E EMH	ELECTRICAL MANHOLE	CCRW	CEMENT CONCRETE RETAINING WALL
G	GAS LINE	TMH	TELEPHONE MANHOLE	CCS	CEMENT CONCRETE STAIRS
W	WATER LINE	CB	CATCH BASIN	CEM. CONC.	CEMENT CONCRETE
E	ELECTRIC CONDUIT	EHH	ELECTRICAL HAND HOLE	CLF	CHAIN LINK FENCE
T	TELEPHONE CONDUIT	MON	MONUMENT	CS	CONCRETE STRP
OHW	OVERHEAD WIRES	WG	WATER GATE	CW	CROSSWALK
CLF	CHAIN LINK FENCE	GG	GAS GATE	GC	GRANITE CURB
	ORNAMENTAL FENCE		SIGN	MON	MONUMENT
WPF	WOOD PICKET FENCE	LP	LIGHT POLE	OHW	OVERHEAD WIRE
	100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88		UTILITY POLE	PVC	POLYVINYL CHLORIDE
			HYDRANT	WCR	WHEELCHAIR RAMP
				WPF	WOOD PICKET FENCE
				WS	WOOD STEP



EXISTING TREE



SCALE 1"=10'

MATCHLINE SEE SHEET 101

MATCHLINE SEE SHEET 103

P:\MA\Worcester\#439292\5-199 Endicott Corridor Street\CAD\Sheet Set\L102.dwg

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GREEN ISLAND PHASE II

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EXISTING CONDITIONS ENLARGEMENT PLAN

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L102

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MATCHLINE SEE SHEET L102

MATCHLINE SEE SHEET L105

MATCHLINE SEE SHEET L104

BIGELOW ST

ENDICOTT ST

3' HIGH ORNAMENTAL FENCE ON CCRW

3' HIGH CLF ON CCRW

3' HIGH CLF ON CCRW

6' HIGH CLF

"CROMPTON PARK"

PORCH

PORCH

GRASS

BIT. CONC.

SMH RIM=446.58 INV.IN=438.51

DMH RIM=446.58 INV.IN=440.70 INV.OUT=440.65

EMH RIM=446.74

CB RIM=446.36 INV.=

SMH RIM=447.29 INV.IN=438.51 INV.OUT=438.47

DMH RIM=446.98 INV.IN=442.18(A) INV.IN=441.58(B) INV.IN=440.84(C) INV.OUT=440.45

CB RIM=446.69 INV.=443.05

DMH RIM=447.68

CB RIM=447.50

CB RIM=447.29

12"PVC S

12"RCP D

8"PVC D

LEGEND

	PROPERTY LINE	× 448.72	EXISTING SPOT ELEVATION	BCD	BITUMINOUS CONCRETE DRIVEWAY
LOW	LIMIT OF WORK		STONE BOUND DRILL HOLE	BCS	BITUMINOUS CONCRETE STAIRS
444	EXISTING MINOR CONTOUR LINE		IRON PIN	BIT. CONC.	BITUMINOUS CONCRETE
445	EXISTING MAJOR CONTOUR LINE	D DMH	DRAINAGE MANHOLE	BRK	BRICK
D	DRAINAGE LINE	S SMH	SEWER MANHOLE	CCP	CEMENT CONCRETE PAD
S	SEWER LINE	E EMH	ELECTRICAL MANHOLE	CCRW	CEMENT CONCRETE RETAINING WALL
G	GAS LINE	TMH	TELEPHONE MANHOLE	CCS	CEMENT CONCRETE STAIRS
W	WATER LINE	CB	CATCH BASIN	CEM. CONC.	CEMENT CONCRETE
E	ELECTRIC CONDUIT	EHH	ELECTRICAL HAND HOLE	CLF	CHAIN LINK FENCE
T	TELEPHONE CONDUIT	MON	MONUMENT	CS	CONCRETE STRP
OHW	OVERHEAD WIRES	WG	WATER GATE	CW	CROSSWALK
X CLF	CHAIN LINK FENCE	GG	GAS GATE	GC	GRANITE CURB
	ORNAMENTAL FENCE		SIGN	MON	MONUMENT
WPF	WOOD PICKET FENCE	LP	LIGHT POLE	OHW	OVERHEAD WIRE
	100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88		UTILITY POLE	PVC	POLYVINYL CHLORIDE
			HYDRANT	WCR	WHEELCHAIR RAMP
CANOPY (APPROXIMATE) / TREE TRUNK	EXISTING TREE			WPF	WOOD PICKET FENCE
				WS	WOOD STEP

0 10 20 30

SCALE 1"=10'

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GREEN ISLAND PHASE II
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EXISTING CONDITIONS ENLARGEMENT PLAN

Sheet Number:
L103

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MATCHLINE SEE SHEET L103

ENDICOTT ST

HARDING ST
(ONE WAY TO NORTH)

APPROXIMATE
FLOODPLAIN EXTENT,
449.3 NAVD88

3' HIGH CLF
ON CCRW

3' HIGH WF

5' HIGH WVF
ON BRW

6' HIGH CLF

ORNAMENTAL FENCE
ON CCRW

"CRUMPTON PARK"

SMH
RIM=448.34
INV.IN=439.58
INV.OUT=439.60

SMH
RIM=448.61

SMH
RIM=449.68
INV.IN=440.68
INV.OUT=440.60

CB
RIM=449.47
INV.=446.94

CB
RIM=449.71
INV.=446.11

12"PVC S

8"PVC D

8"PVC S

CONC. PAVEMENT

GRASS

BCS

LEGEND

	PROPERTY LINE	× 448.72	EXISTING SPOT ELEVATION	BCD	BITUMINOUS CONCRETE DRIVEWAY
LOW	LIMIT OF WORK		STONE BOUND DRILL HOLE	BCS	BITUMINOUS CONCRETE STAIRS
444	EXISTING MINOR CONTOUR LINE		IRON PIN	BIT. CONC.	BITUMINOUS CONCRETE
445	EXISTING MAJOR CONTOUR LINE	D DMH	DRAINAGE MANHOLE	BRK	BRICK
D	DRAINAGE LINE	S SMH	SEWER MANHOLE	CCP	CEMENT CONCRETE PAD
S	SEWER LINE	E EMH	ELECTRICAL MANHOLE	CCRW	CEMENT CONCRETE RETAINING WALL
G	GAS LINE	TMH	TELEPHONE MANHOLE	CCS	CEMENT CONCRETE STAIRS
W	WATER LINE	CB	CATCH BASIN	CEM. CONC.	CEMENT CONCRETE
E	ELECTRIC CONDUIT	EHH	ELECTRICAL HAND HOLE	CLF	CHAIN LINK FENCE
T	TELEPHONE CONDUIT	MON	MONUMENT	CS	CONCRETE STRP
OHW	OVERHEAD WIRES	WG	WATER GATE	CW	CROSSWALK
X CLF X	CHAIN LINK FENCE	GG	GAS GATE	GC	GRANITE CURB
	ORNAMENTAL FENCE		SIGN	MON	MONUMENT
WPF	WOOD PICKET FENCE	LP	LIGHT POLE	OHW	OVERHEAD WIRE
	100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88		UTILITY POLE	PVC	POLYVINYL CHLORIDE
			HYDRANT	WCR	WHEELCHAIR RAMP
CANOPY (APPROXIMATE) / TREE TRUNK	EXISTING TREE			WPF	WOOD PICKET FENCE
				WS	WOOD STEP

0 10 20 30

SCALE 1"=10'

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Project:
GREEN ISLAND PHASE II

WORCESTER, MA 01610

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Drawing Title:
EXISTING CONDITIONS ENLARGEMENT PLAN

Sheet Number:
L104

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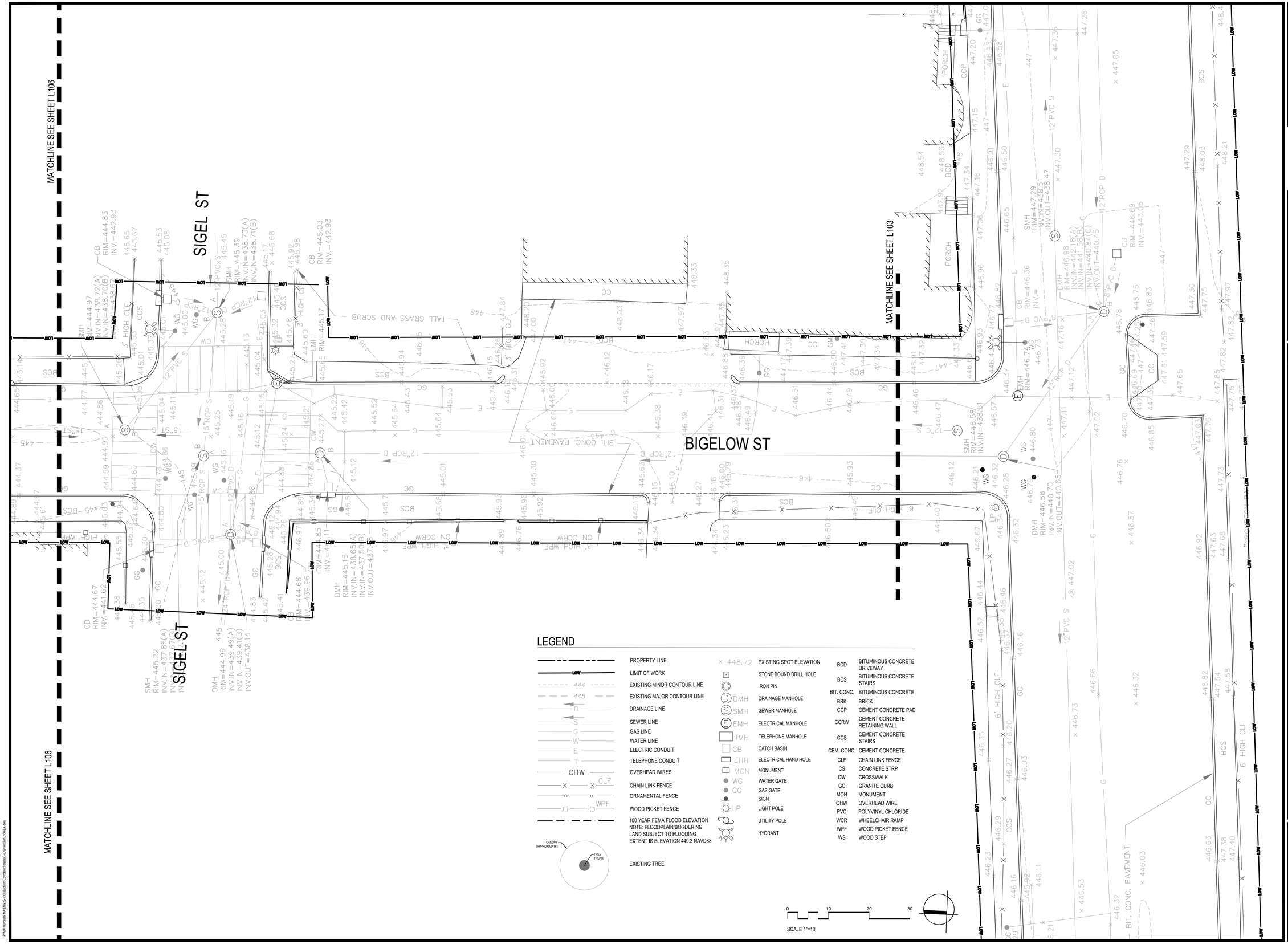

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EXISTING CONDITIONS ENLARGEMENT PLAN

Sheet Number:
L105

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MATCHLINE SEE SHEET L107

MATCHLINE SEE SHEET L105

ELLSWORTH ST

BIGELOW ST

ELLSWORTH ST

BENCHMARK
SURVEY NAIL
EL = 444.86

LEGEND

	PROPERTY LINE	× 448.72	EXISTING SPOT ELEVATION	BCD	BITUMINOUS CONCRETE DRIVEWAY
LOW	LIMIT OF WORK		STONE BOUND DRILL HOLE	BCS	BITUMINOUS CONCRETE STAIRS
444	EXISTING MINOR CONTOUR LINE		IRON PIN	BIT. CONC.	BITUMINOUS CONCRETE
445	EXISTING MAJOR CONTOUR LINE	D DMH	DRAINAGE MANHOLE	BRK	BRICK
D	DRAINAGE LINE	S SMH	SEWER MANHOLE	CCP	CEMENT CONCRETE PAD
S	SEWER LINE	E EMH	ELECTRICAL MANHOLE	CCRW	CEMENT CONCRETE RETAINING WALL
G	GAS LINE	TMH	TELEPHONE MANHOLE	CCS	CEMENT CONCRETE STAIRS
W	WATER LINE	CB	CATCH BASIN	CEM. CONC.	CEMENT CONCRETE
E	ELECTRIC CONDUIT	EHH	ELECTRICAL HAND HOLE	CLF	CHAIN LINK FENCE
T	TELEPHONE CONDUIT	MON	MONUMENT	CS	CONCRETE STRP
OHW	OVERHEAD WIRES	WG	WATER GATE	CW	CROSSWALK
X CLF	CHAIN LINK FENCE	GG	GAS GATE	GC	GRANITE CURB
	ORNAMENTAL FENCE		SIGN	MON	MONUMENT
WPF	WOOD PICKET FENCE	LP	LIGHT POLE	OHW	OVERHEAD WIRE
	100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88		UTILITY POLE	PVC	POLYVINYL CHLORIDE
			HYDRANT	WCR	WHEELCHAIR RAMP
CANOPY (APPROXIMATE) / TREE TRUNK	EXISTING TREE			WPF	WOOD PICKET FENCE
				WS	WOOD STEP

0 10 20 30

SCALE 1"=10'

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Consultants:

Revisions:

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MASSACHUSETTS
Brandon M. Kruzner
No. 40401
REGISTERED LANDSCAPE ARCHITECT

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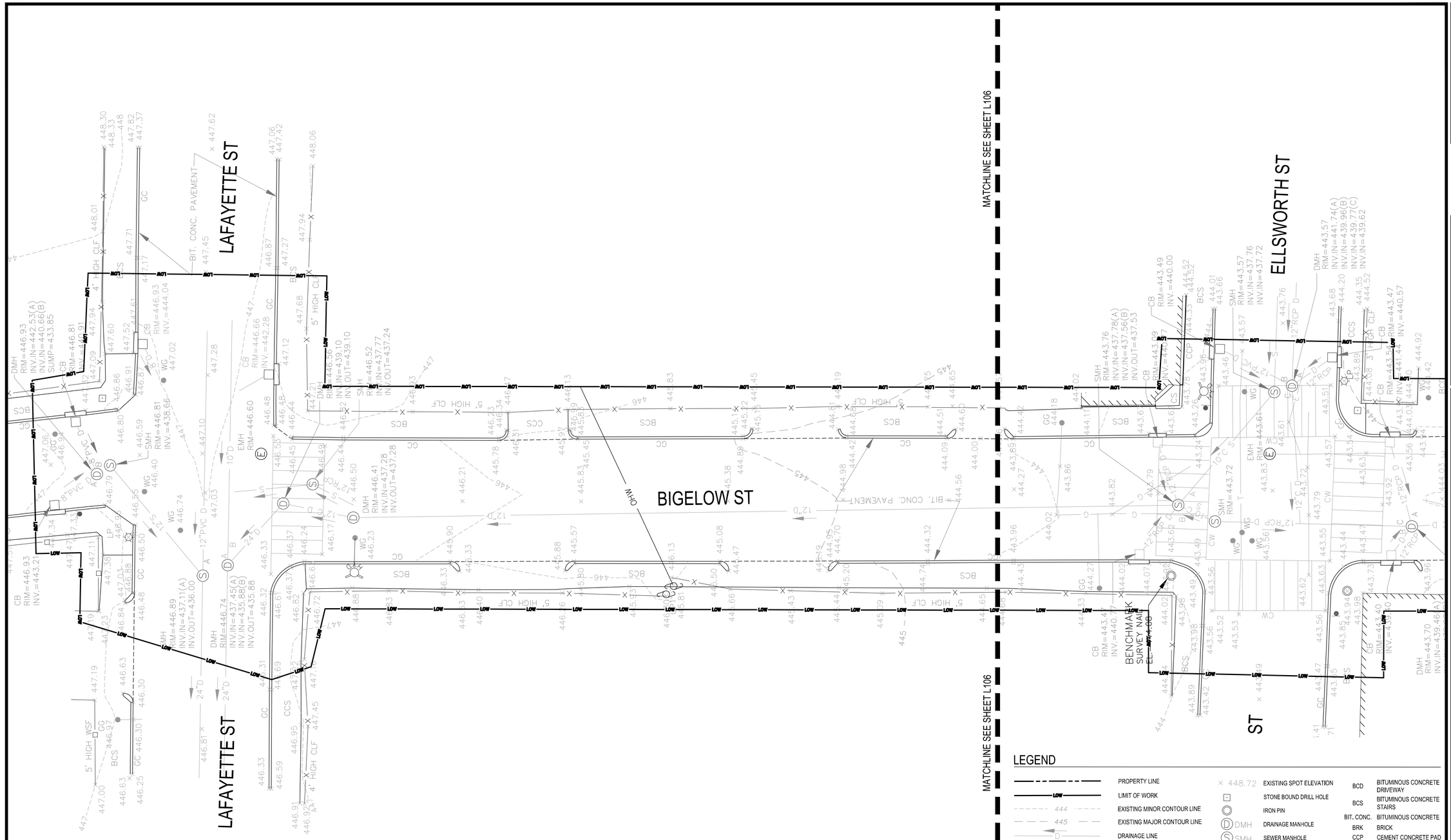
EXISTING CONDITIONS ENLARGEMENT PLAN

Sheet Number:
L106



LEGEND

PROPERTY LINE	× 448.72	EXISTING SPOT ELEVATION	BCD	BITUMINOUS CONCRETE DRIVEWAY
LIMIT OF WORK		STONE BOUND DRILL HOLE	BCS	BITUMINOUS CONCRETE STAIRS
EXISTING MINOR CONTOUR LINE		IRON PIN	BIT. CONC.	BITUMINOUS CONCRETE
EXISTING MAJOR CONTOUR LINE	D	DRAINAGE MANHOLE	BRK	BRICK
DRAINAGE LINE	S	SEWER MANHOLE	CCP	CEMENT CONCRETE PAD
SEWER LINE	E	ELECTRICAL MANHOLE	CCRW	CEMENT CONCRETE RETAINING WALL
GAS LINE	TMH	TELEPHONE MANHOLE	CCS	CEMENT CONCRETE STAIRS
WATER LINE	CB	CATCH BASIN	CEM. CONC.	CEMENT CONCRETE
ELECTRIC CONDUIT	EHH	ELECTRICAL HAND HOLE	CLF	CHAIN LINK FENCE
TELEPHONE CONDUIT	MON	MONUMENT	CS	CONCRETE STRP
OVERHEAD WIRES	WG	WATER GATE	CW	CROSSWALK
CHAIN LINK FENCE	GG	GAS GATE	GC	GRANITE CURB
ORNAMENTAL FENCE		SIGN	MON	MONUMENT
WOOD PICKET FENCE	LP	LIGHT POLE	OHW	OVERHEAD WIRE
100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88		UTILITY POLE	PVC	POLYVINYL CHLORIDE
		HYDRANT	WCR	WHEELCHAIR RAMP
			WPF	WOOD PICKET FENCE
			WS	WOOD STEP

EXISTING TREE

0 10 20 30

SCALE 1"=10'

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Brandon M. Kuhner
No. 40407
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EXISTING CONDITIONS ENLARGEMENT PLAN

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L107

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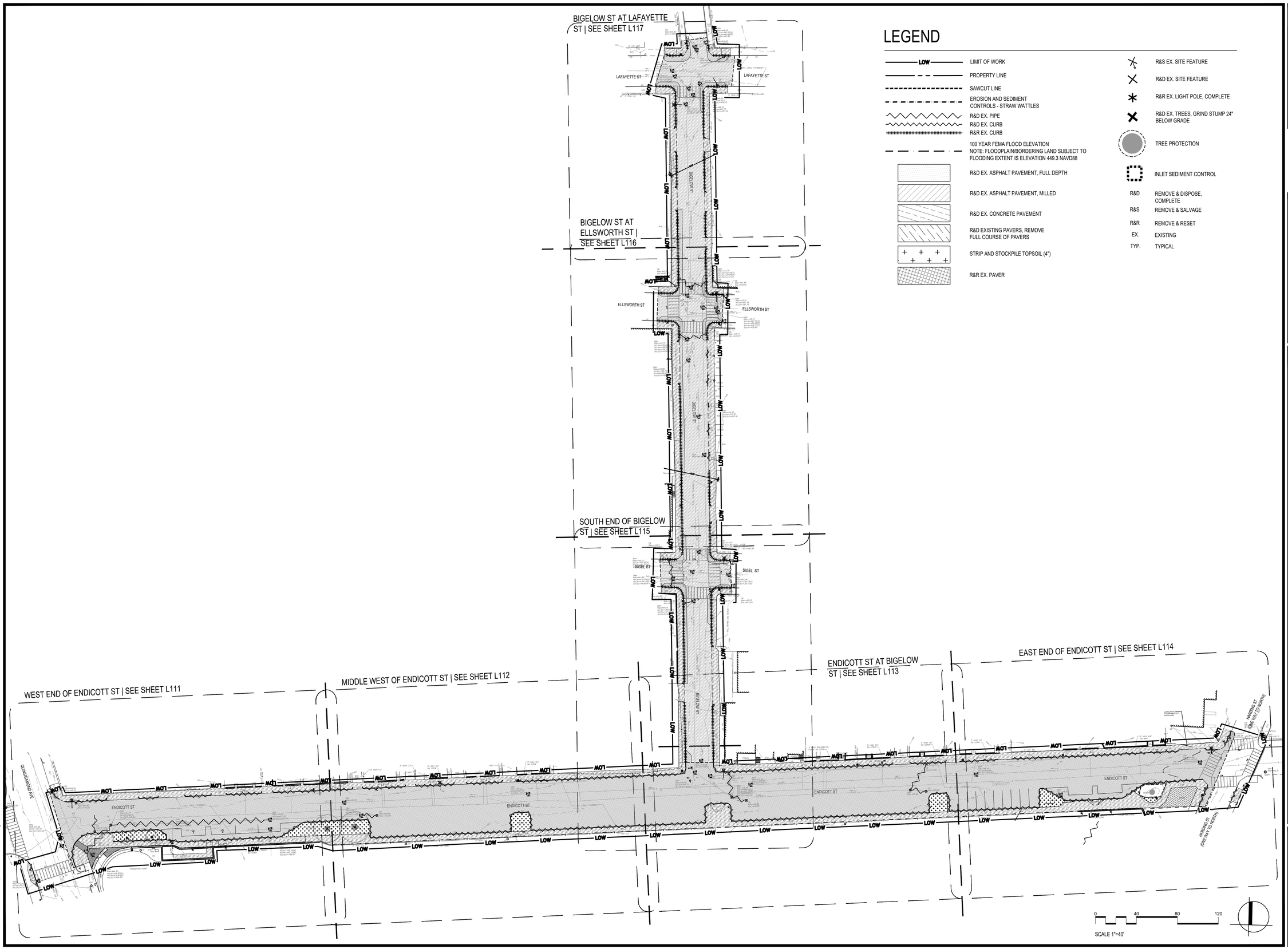

LEGEND

- LOW — LIMIT OF WORK
- PROPERTY LINE
- SAWCUT LINE
- EROSION AND SEDIMENT CONTROLS - STRAW WATTLES
- R&D EX. PIPE
- R&D EX. CURB
- R&R EX. CURB
- 100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
- R&D EX. ASPHALT PAVEMENT, FULL DEPTH
- R&D EX. ASPHALT PAVEMENT, MILLED
- R&D EX. CONCRETE PAVEMENT
- R&D EXISTING PAVERS, REMOVE FULL COURSE OF PAVERS
- STRIP AND STOCKPILE TOPSOIL (4")
- R&R EX. PAVER
- R&S EX. SITE FEATURE
- R&D EX. SITE FEATURE
- R&R EX. LIGHT POLE, COMPLETE
- R&D EX. TREES, GRIND STUMP 24" BELOW GRADE
- TREE PROTECTION
- INLET SEDIMENT CONTROL
- R&D — REMOVE & DISPOSE, COMPLETE
- R&S — REMOVE & SALVAGE
- R&R — REMOVE & RESET
- EX. — EXISTING
- TYP. — TYPICAL

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OVERALL SITE PREPARATION PLAN

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L110

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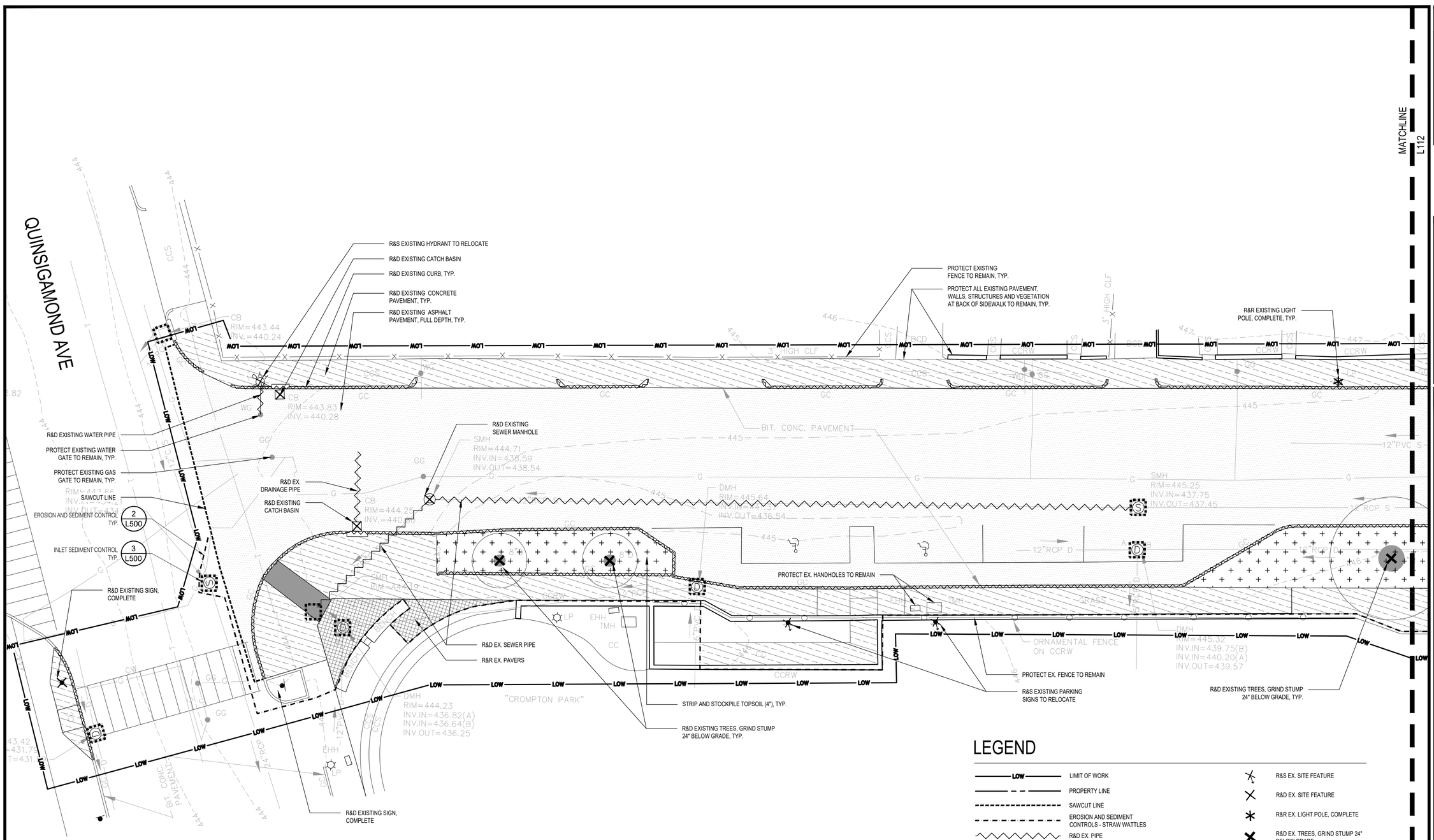

LEGEND

- LIMIT OF WORK (LOW)
- PROPERTY LINE
- SAWCUT LINE
- EROSION AND SEDIMENT CONTROLS - STRAW WATTLES
- R&D EX. PIPE
- R&D EX. CURB
- R&R EX. CURB
- 100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
- R&D EX. ASPHALT PAVEMENT, FULL DEPTH
- R&D EX. ASPHALT PAVEMENT, MILLED
- R&D EX. CONCRETE PAVEMENT
- R&D EXISTING PAVERS, REMOVE FULL COURSE OF PAVERS
- STRIP AND STOCKPILE TOPSOIL (4")
- R&R EX. PAVER
- R&S EX. SITE FEATURE
- R&D EX. SITE FEATURE
- R&R EX. LIGHT POLE, COMPLETE
- R&D EX. TREES, GRIND STUMP 24" BELOW GRADE
- TREE PROTECTION
- INLET SEDIMENT CONTROL

R&D	REMOVE & DISPOSE, COMPLETE
R&S	REMOVE & SALVAGE
R&R	REMOVE & RESET
EX.	EXISTING
TYP.	TYPICAL

0 10 20 30

SCALE 1"=10'

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Sheet Number:
L111

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L111
MATCHLINE

MATCHLINE
L113

3
L500
INLET SEDIMENT CONTROL, TYP.

R&D EXISTING DRAINAGE STRUCTURE

R&S EXISTING HYDRANT TO RELOCATE

CUT EXISTING WATER PIPE TO
CONNECT TO RELOCATED HYDRANT

PROTECT EXISTING WATER
GATE TO REMAIN, TYP.

R&D EXISTING CURB, TYP.

R&D EXISTING CONCRETE
PAVEMENT, TYP.

R&D EXISTING ASPHALT
PAVEMENT, FULL DEPTH, TYP.

R&R EXISTING LIGHT
POLE, COMPLETE, TYP.

UNLESS OTHERWISE NOTED, ALL
EXISTING PAVEMENT, WALLS,
STRUCTURES, AND VEGETATION AT
BACK OF SIDEWALK TO REMAIN.
PROTECT DURING CONSTRUCTION TYP.

3' HIGH CLF

3' HIGH CLF
ON CCRW

6' HIGH CLF

SMH
RIM=445.40

SMH
RIM=445.17
INV.IN=439.87
INV.OUT=439.77

CB
RIM=445.06
INV.=440.66

SMH
RIM=446.24
INV.IN=437.79
INV.OUT=437.64

12"PVC S

ENDICOTT ST

BIT. CONC. PAVEMENT

CROMPTON PARK

R&D EXISTING CATCH BASIN

R&D EX. DRAINAGE PIPE

R&D EXISTING TREES, GRIND STUMP
24" BELOW GRADE, TYP.

2
L500
EROSION AND SEDIMENT CONTROL

STRIP AND STOCKPILE TOPSOIL (4"), TYP.

PROTECT EXISTING
FENCE TO REMAIN, TYP.

LEGEND

- LOW — LIMIT OF WORK
- PROPERTY LINE
- SAWCUT LINE
- EROSION AND SEDIMENT CONTROLS - STRAW WATTLES
- R&D EX. PIPE
- R&D EX. CURB
- R&R EX. CURB
- 100 YEAR FEMA FLOOD ELEVATION
  NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
- R&D EX. ASPHALT PAVEMENT, FULL DEPTH
- R&D EX. ASPHALT PAVEMENT, MILLED
- R&D EX. CONCRETE PAVEMENT
- R&D EXISTING PAVERS, REMOVE FULL COURSE OF PAVERS
- STRIP AND STOCKPILE TOPSOIL (4")
- R&R EX. PAVER
- R&S EX. SITE FEATURE
- R&D EX. SITE FEATURE
- R&R EX. LIGHT POLE, COMPLETE
- R&D EX. TREES, GRIND STUMP 24" BELOW GRADE
- TREE PROTECTION
- INLET SEDIMENT CONTROL
- R&D — REMOVE & DISPOSE, COMPLETE
- R&S — REMOVE & SALVAGE
- R&R — REMOVE & RESET
- EX. — EXISTING
- TYP. — TYPICAL

0 10 20 30
SCALE 1"=10'

L111
MATCHLINE

MATCHLINE
L113

P:\MA\Worcester\MA3N202-108 Endicott Complete Streets\CAD\Sheet Set\L112.DP.dwg

Project:
GREEN ISLAND PHASE II

WORCESTER, MA 01610

Weston & Sampson Engineers, Inc.
85 Devonshire Street, 3rd Floor
Boston, MA 02109
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

COA:

Seal:
MASSACHUSETTS
Shannon M. Kunkel
No. 40
REGISTERED PROFESSIONAL ENGINEER
REGISTERED LANDSCAPE ARCHITECT

Issued For:
BID DOCUMENTS

Scale: AS SHOWN

Date:	05/27/2025
Drawn By:	TZ, KA
Reviewed By:	MS
Approved By:	BK
W&S Project No.:	ENG_22-1008
W&S File No.:	

Drawing Title:
SITE PREPARATION ENLARGEMENT PLAN

Sheet Number:
L112

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L112 MATCHLINE

L115 MATCHLINE

MATCHLINE L114

R&D EXISTING ASPHALT PAVEMENT, MILLED, TYP.

R&R EXISTING CURB, TYP.

R&S EXISTING HYDRANT TO RELOCATE

3 / L500 INLET SEDIMENT CONTROL, TYP.

PROTECT ALL EXISTING PAVEMENT, WALLS, STRUCTURES AND VEGETATION AT BACK OF SIDEWALK TO REMAIN, TYP.

R&D EXISTING CURB, TYP.

R&D EXISTING CONCRETE PAVEMENT, TYP.

R&D EXISTING ASPHALT PAVEMENT, FULL DEPTH, TYP.

R&R EXISTING LIGHT POLE, COMPLETE, TYP.

STRIP AND STOCKPILE TOPSOIL (4"), TYP.

R&D EXISTING CATCH BASIN

R&D EX. DRAINAGE PIPE

R&D EXISTING DRAINAGE MANHOLE

3' HIGH ORNAMENTAL FENCE ON CCRW

3' HIGH CLF ON CCRW

R&S EXISTING WATER GATE TO RELOCATE

R&D EXISTING WATER PIPE

PROTECT EXISTING WATER GATE TO REMAIN, TYP.

R&D EXISTING CATCH BASIN

R&S EXISTING GAS GATE TO RELOCATE

R&D EXISTING CATCH BASIN

R&D EX. DRAINAGE PIPE

R&D EXISTING DRAINAGE MANHOLE

6' HIGH CLF

PROTECT EXISTING FENCE TO REMAIN, TYP.

2 / L500 EROSION AND SEDIMENT CONTROL, TYP.

LEGEND

LOW	LIMIT OF WORK
	PROPERTY LINE
	SAWCUT LINE
	EROSION AND SEDIMENT CONTROLS - STRAW WATTLES
	R&D EX. PIPE
	R&D EX. CURB
	R&R EX. CURB
	100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
	R&D EX. ASPHALT PAVEMENT, FULL DEPTH
	R&D EX. ASPHALT PAVEMENT, MILLED
	R&D EX. CONCRETE PAVEMENT
	R&D EXISTING PAVERS, REMOVE FULL COURSE OF PAVERS
	STRIP AND STOCKPILE TOPSOIL (4")
	R&R EX. PAVER
	R&S EX. SITE FEATURE
	R&D EX. SITE FEATURE
	R&R EX. LIGHT POLE, COMPLETE
	R&D EX. TREES, GRIND STUMP 24" BELOW GRADE
	TREE PROTECTION
	INLET SEDIMENT CONTROL
R&D	REMOVE & DISPOSE, COMPLETE
R&S	REMOVE & SALVAGE
R&R	REMOVE & RESET
EX.	EXISTING
TYP.	TYPICAL

0 10 20 30

SCALE 1"=10'

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Project:
GREEN ISLAND PHASE II
WORCESTER, MA 01610

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Drawing Title:
SITE PREPARATION ENLARGEMENT PLAN

Sheet Number:
L113

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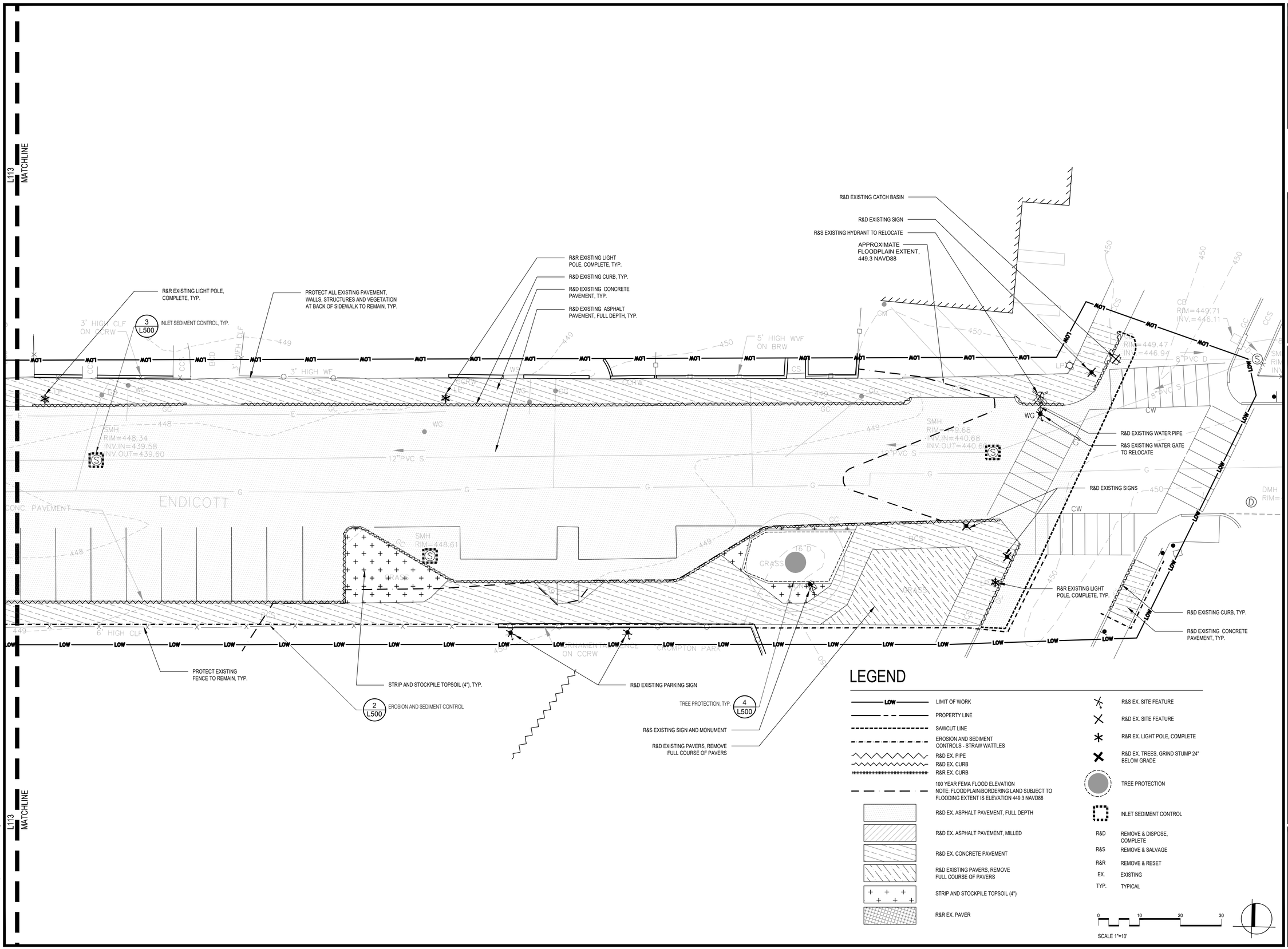

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MASSACHUSETTS Brandon M. Kinney No. 40,403 REGISTERED LANDSCAPE ARCHITECT

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SITE PREPARATION ENLARGEMENT PLAN

Sheet Number:
L114

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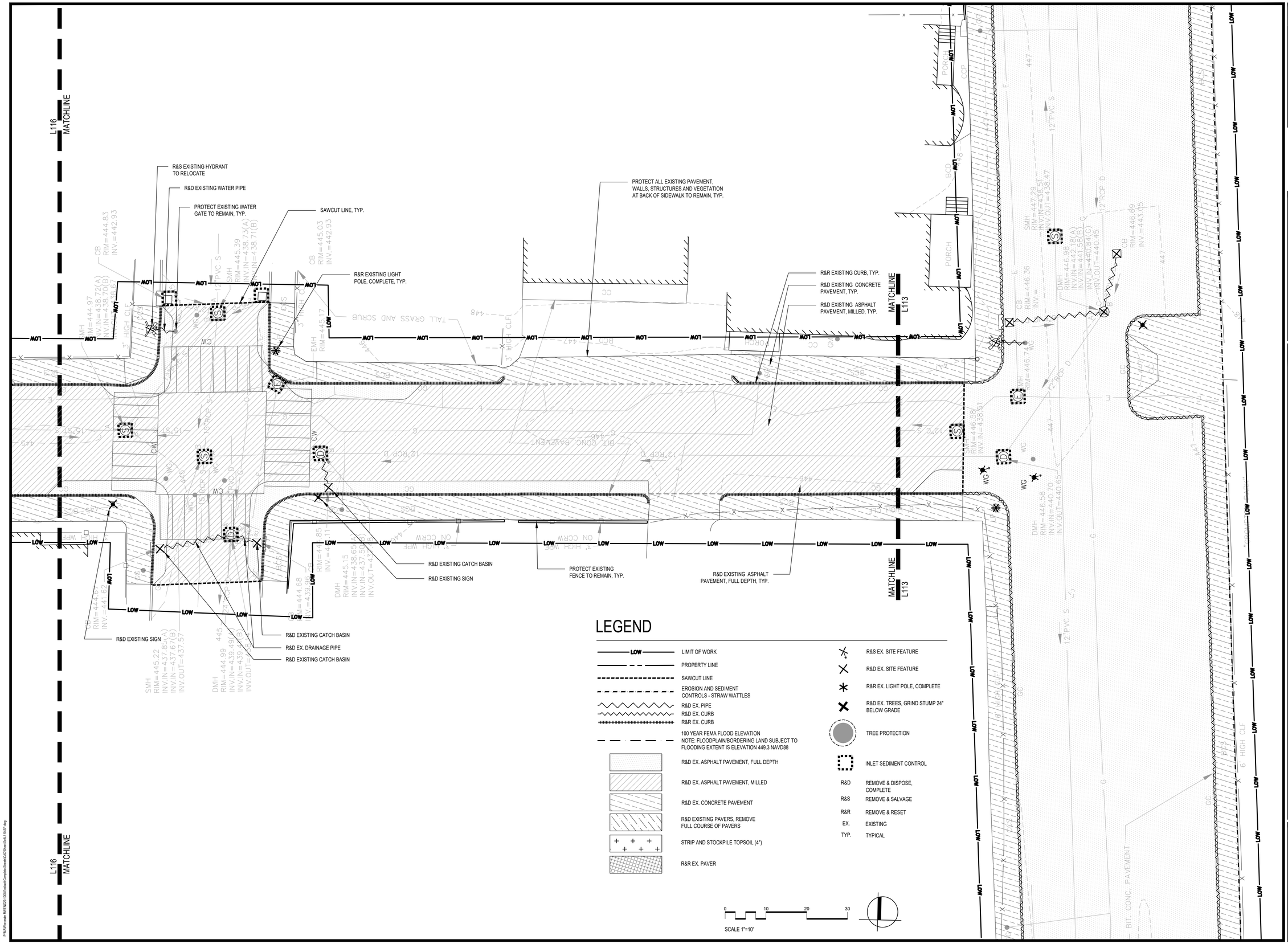

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Consultants:

Revisions:

No.	Date	Description

COA:

Seal:
MASSACHUSETTS
Brandon Mikolajczyk
No. 40470
REGISTERED LANDSCAPE ARCHITECT

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Scale: AS SHOWN

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Drawn By:	TZ, KA
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Drawing Title:
SITE PREPARATION ENLARGEMENT PLAN

Sheet Number:
L115

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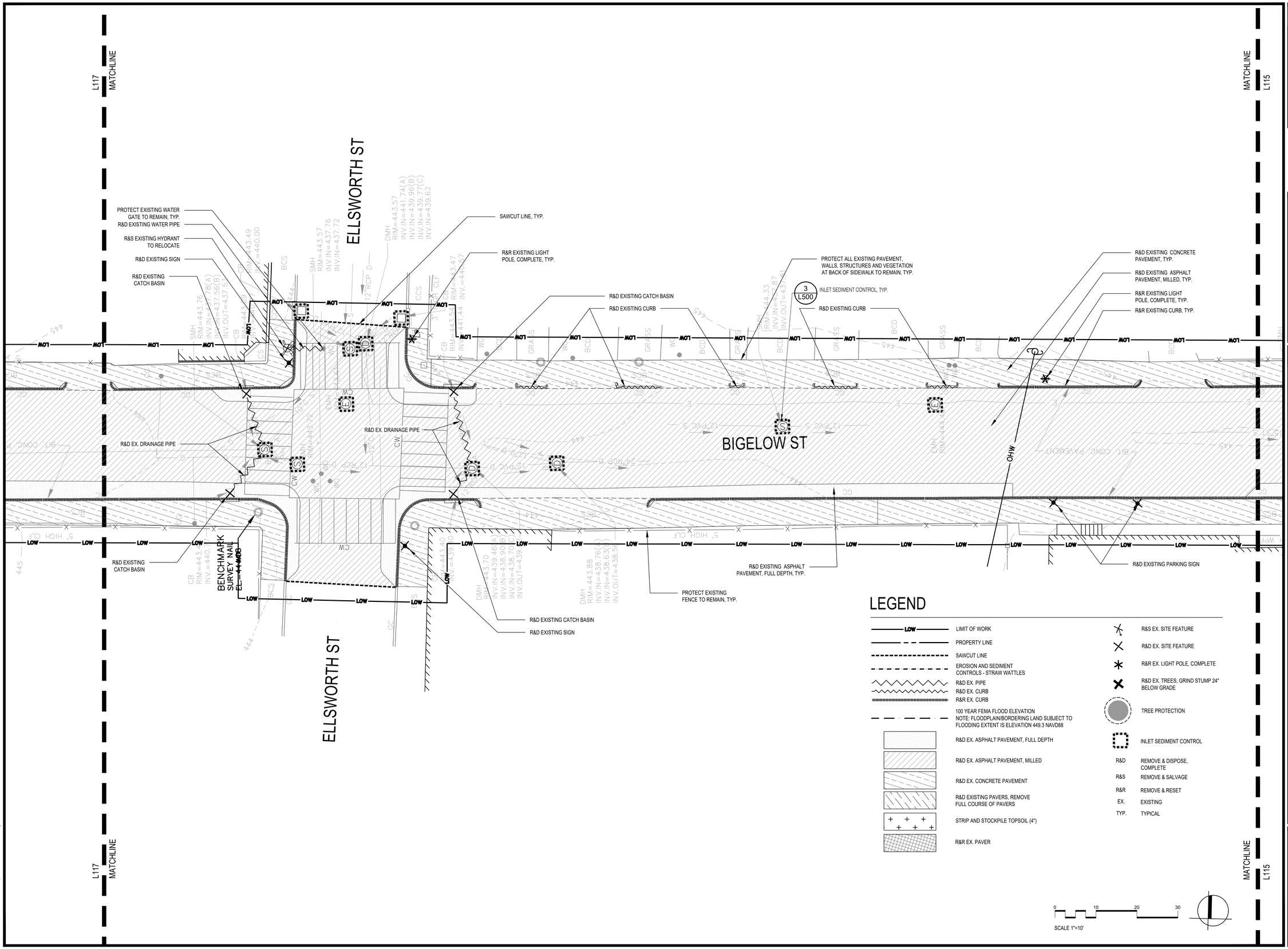

LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- SAWCUT LINE
- EROSION AND SEDIMENT CONTROLS - STRAW WATTLES
- R&D EX. PIPE
- R&D EX. CURB
- R&R EX. CURB
- 100 YEAR FEMA FLOOD ELEVATION
  NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
- R&D EX. ASPHALT PAVEMENT, FULL DEPTH
- R&D EX. ASPHALT PAVEMENT, MILLED
- R&D EX. CONCRETE PAVEMENT
- R&D EXISTING PAVERS, REMOVE FULL COURSE OF PAVERS
- STRIP AND STOCKPILE TOPSOIL (4")
- R&R EX. PAVER
- R&S EX. SITE FEATURE
- R&D EX. SITE FEATURE
- R&R EX. LIGHT POLE, COMPLETE
- R&D EX. TREES, GRIND STUMP 24" BELOW GRADE
- TREE PROTECTION
- INLET SEDIMENT CONTROL

R&D	REMOVE & DISPOSE, COMPLETE
R&S	REMOVE & SALVAGE
R&R	REMOVE & RESET
EX.	EXISTING
TYP.	TYPICAL

0 10 20 30

SCALE 1"=10'

Project:
GREEN ISLAND PHASE II
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No. 40470
REGISTERED LANDSCAPE ARCHITECT

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SITE PREPARATION ENLARGEMENT PLAN

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L116

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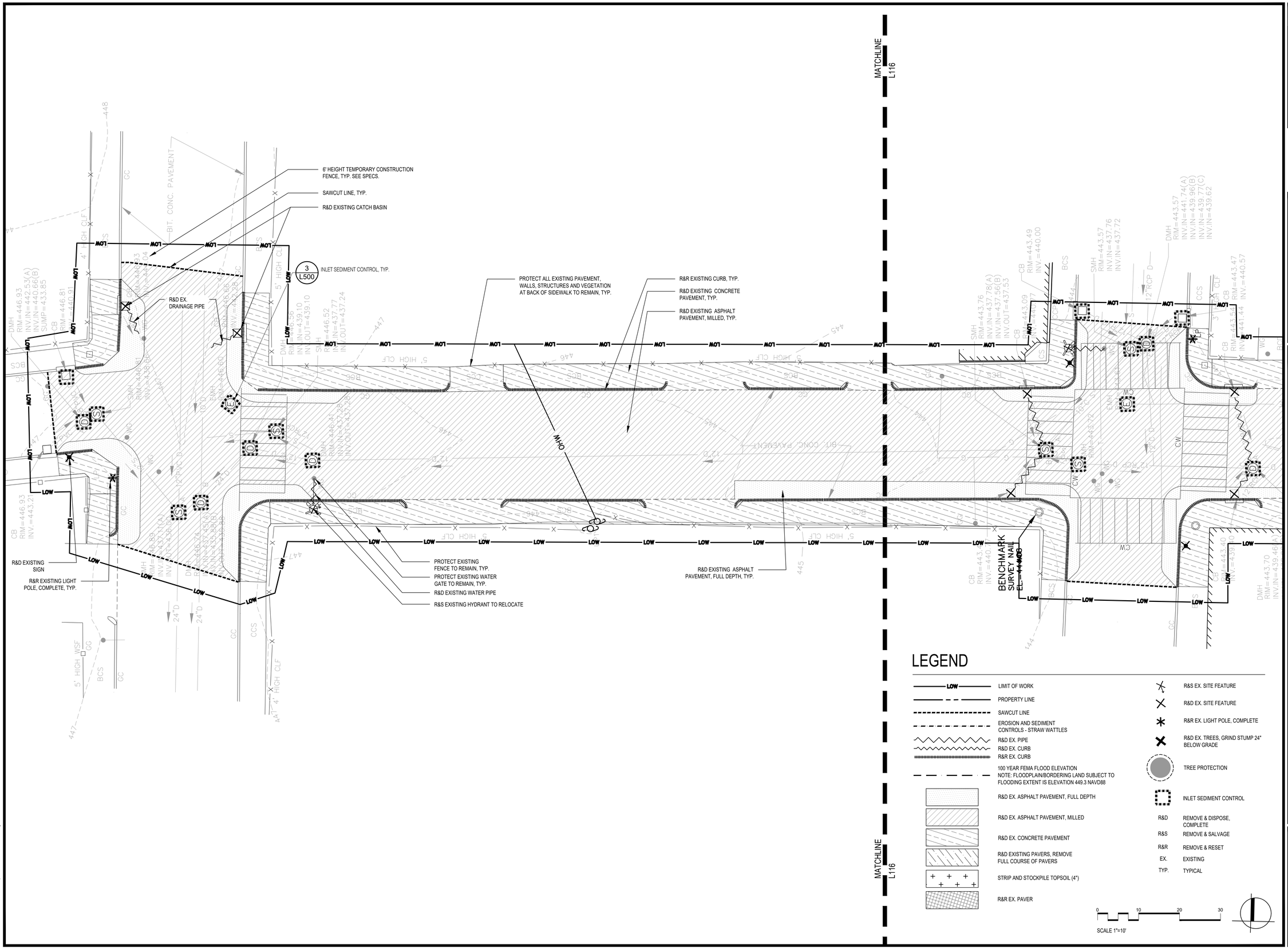

LEGEND

- LOW — LIMIT OF WORK
- PROPERTY LINE
- SAWCUT LINE
- EROSION AND SEDIMENT CONTROLS - STRAW WATTLES
- R&D EX. PIPE
- R&D EX. CURB
- R&R EX. CURB
- 100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
- R&D EX. ASPHALT PAVEMENT, FULL DEPTH
- R&D EX. ASPHALT PAVEMENT, MILLED
- R&D EX. CONCRETE PAVEMENT
- R&D EXISTING PAVERS, REMOVE FULL COURSE OF PAVERS
- STRIP AND STOCKPILE TOPSOIL (4")
- R&R EX. PAVER
- R&S EX. SITE FEATURE
- R&D EX. SITE FEATURE
- R&R EX. LIGHT POLE, COMPLETE
- R&D EX. TREES, GRIND STUMP 24" BELOW GRADE
- TREE PROTECTION
- INLET SEDIMENT CONTROL
- R&D — REMOVE & DISPOSE, COMPLETE
- R&S — REMOVE & SALVAGE
- R&R — REMOVE & RESET
- EX. — EXISTING
- TYP. — TYPICAL

SCALE 1"=10'

Project:
GREEN ISLAND PHASE II

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MASSACHUSETTS Brandon M. Kuney No. 40... REGISTERED LANDSCAPE ARCHITECT

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Drawing Title:
SITE PREPARATION ENLARGEMENT PLAN

Sheet Number:
L117

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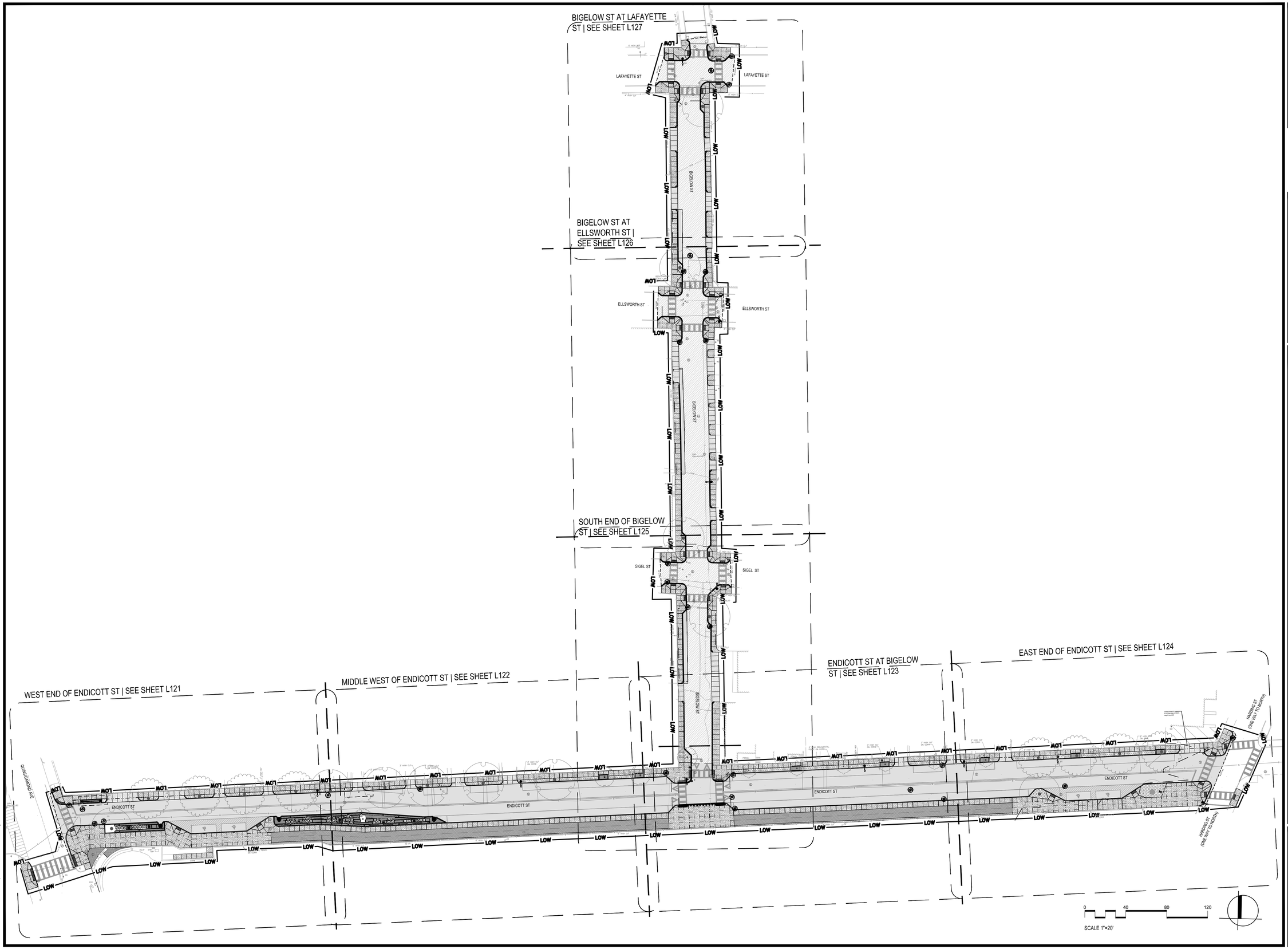

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GREEN ISLAND PHASE II

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W&S File No.:	

Drawing Title:
OVERALL MATERIALS PLAN

Sheet Number:
L120

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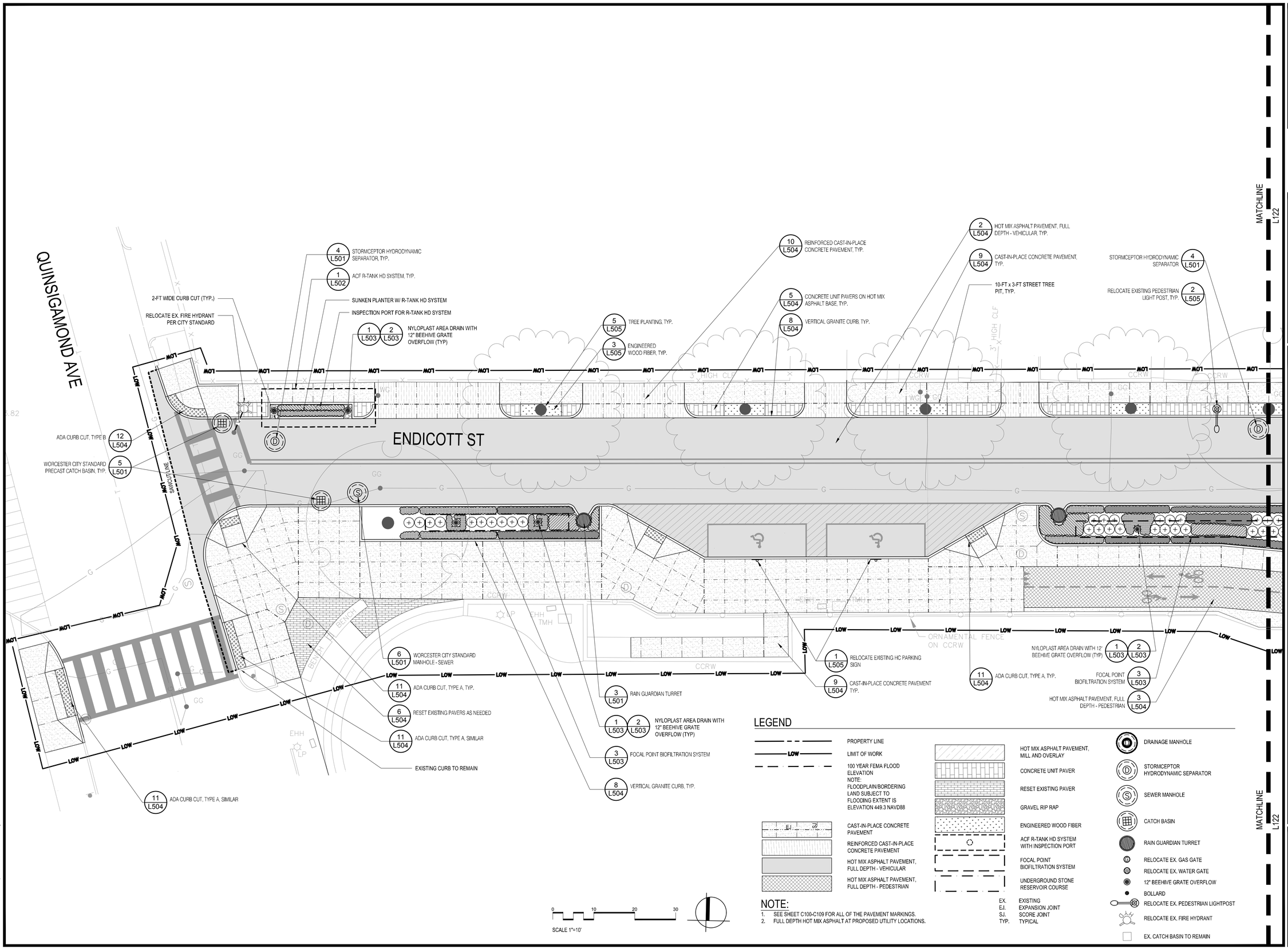

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- 100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
- CAST-IN-PLACE CONCRETE PAVEMENT
- REINFORCED CAST-IN-PLACE CONCRETE PAVEMENT
- HOT MIX ASPHALT PAVEMENT, FULL DEPTH - VEHICULAR
- HOT MIX ASPHALT PAVEMENT, FULL DEPTH - PEDESTRIAN
- HOT MIX ASPHALT PAVEMENT, MILL AND OVERLAY
- CONCRETE UNIT PAVER
- RESET EXISTING PAVER
- GRAVEL RIP RAP
- ENGINEERED WOOD FIBER
- ACF R-TANK HD SYSTEM WITH INSPECTION PORT
- FOCAL POINT BIOFILTRATION SYSTEM
- UNDERGROUND STONE RESERVOIR COURSE
- DRAINAGE MANHOLE
- STORMCEPTOR HYDRODYNAMIC SEPARATOR
- SEWER MANHOLE
- CATCH BASIN
- RAIN GUARDIAN TURRET
- RELOCATE EX. GAS GATE
- RELOCATE EX. WATER GATE
- 12" BEEHIVE GRATE OVERFLOW
- BOLLARD
- RELOCATE EX. PEDESTRIAN LIGHTPOST
- RELOCATE EX. FIRE HYDRANT
- EX. CATCH BASIN TO REMAIN

EX. EXISTING
EJ. EXPANSION JOINT
SJ. SCORE JOINT
TYP. TYPICAL

NOTE:

1. SEE SHEET C100-C109 FOR ALL OF THE PAVEMENT MARKINGS.
2. FULL DEPTH HOT MIX ASPHALT AT PROPOSED UTILITY LOCATIONS.

Project:
GREEN ISLAND PHASE II
WORCESTER, MA 01610

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Consultants:

Revisions:

No.	Date	Description

COA:

Seal:
MASSACHUSETTS
Brennon Mulcahy
REGISTERED LANDSCAPE ARCHITECT
No. 4045

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Approved By:	BK
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W&S File No.:	

Drawing Title:
MATERIALS ENLARGEMENT PLAN

Sheet Number:
L121

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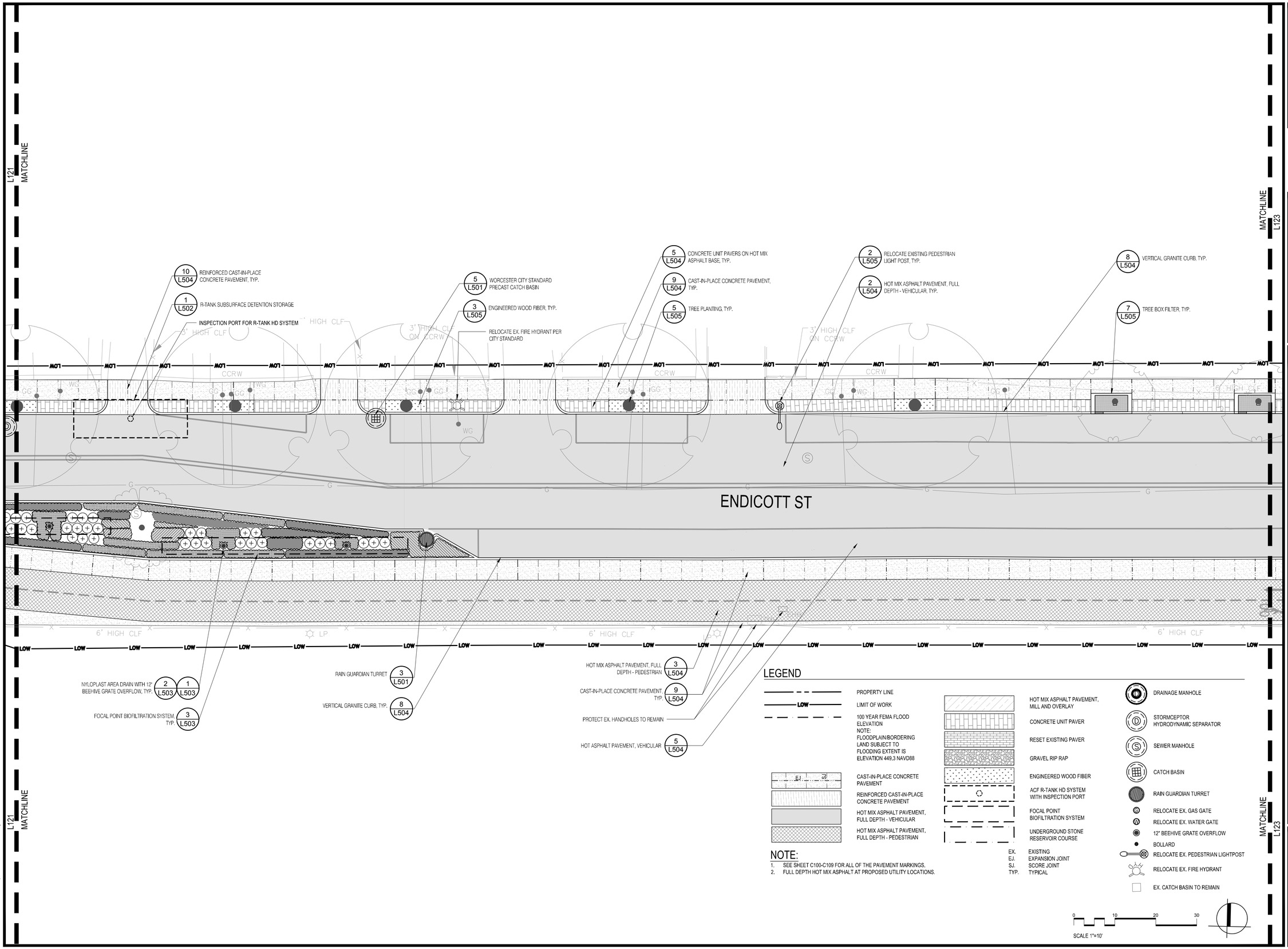

LEGEND

- PROPERTY LINE
- LOW — LIMIT OF WORK
- 100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
- CAST-IN-PLACE CONCRETE PAVEMENT (EJ, SJ)
- REINFORCED CAST-IN-PLACE CONCRETE PAVEMENT
- HOT MIX ASPHALT PAVEMENT, FULL DEPTH - VEHICULAR
- HOT MIX ASPHALT PAVEMENT, FULL DEPTH - PEDESTRIAN
- HOT MIX ASPHALT PAVEMENT, MILL AND OVERLAY
- CONCRETE UNIT PAVER
- RESET EXISTING PAVER
- GRAVEL RIP RAP
- ENGINEERED WOOD FIBER
- ACF R-TANK HD SYSTEM WITH INSPECTION PORT
- FOCAL POINT BIOFILTRATION SYSTEM
- UNDERGROUND STONE RESERVOIR COURSE
- DRAINAGE MANHOLE
- STORMCEPTOR HYDRODYNAMIC SEPARATOR
- SEWER MANHOLE
- CATCH BASIN
- RAIN GUARDIAN TURRET
- RELOCATE EX. GAS GATE
- RELOCATE EX. WATER GATE
- 12" BEEHIVE GRATE OVERFLOW
- BOLLARD
- RELOCATE EX. PEDESTRIAN LIGHTPOST
- RELOCATE EX. FIRE HYDRANT
- EX. CATCH BASIN TO REMAIN

EX. EXISTING
EJ. EXPANSION JOINT
SJ. SCORE JOINT
TYP. TYPICAL

NOTE:

1. SEE SHEET C100-C109 FOR ALL OF THE PAVEMENT MARKINGS.
2. FULL DEPTH HOT MIX ASPHALT AT PROPOSED UTILITY LOCATIONS.

0 10 20 30
SCALE 1"=10'

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Consultants:

Revisions:

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COA:

Seal:
MASSACHUSETTS Brandon M. Kuruvi NO. 40400 REGISTERED LANDSCAPE ARCHITECT

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W&S File No.:	

Drawing Title:
MATERIALS ENLARGEMENT PLAN

Sheet Number:
L122

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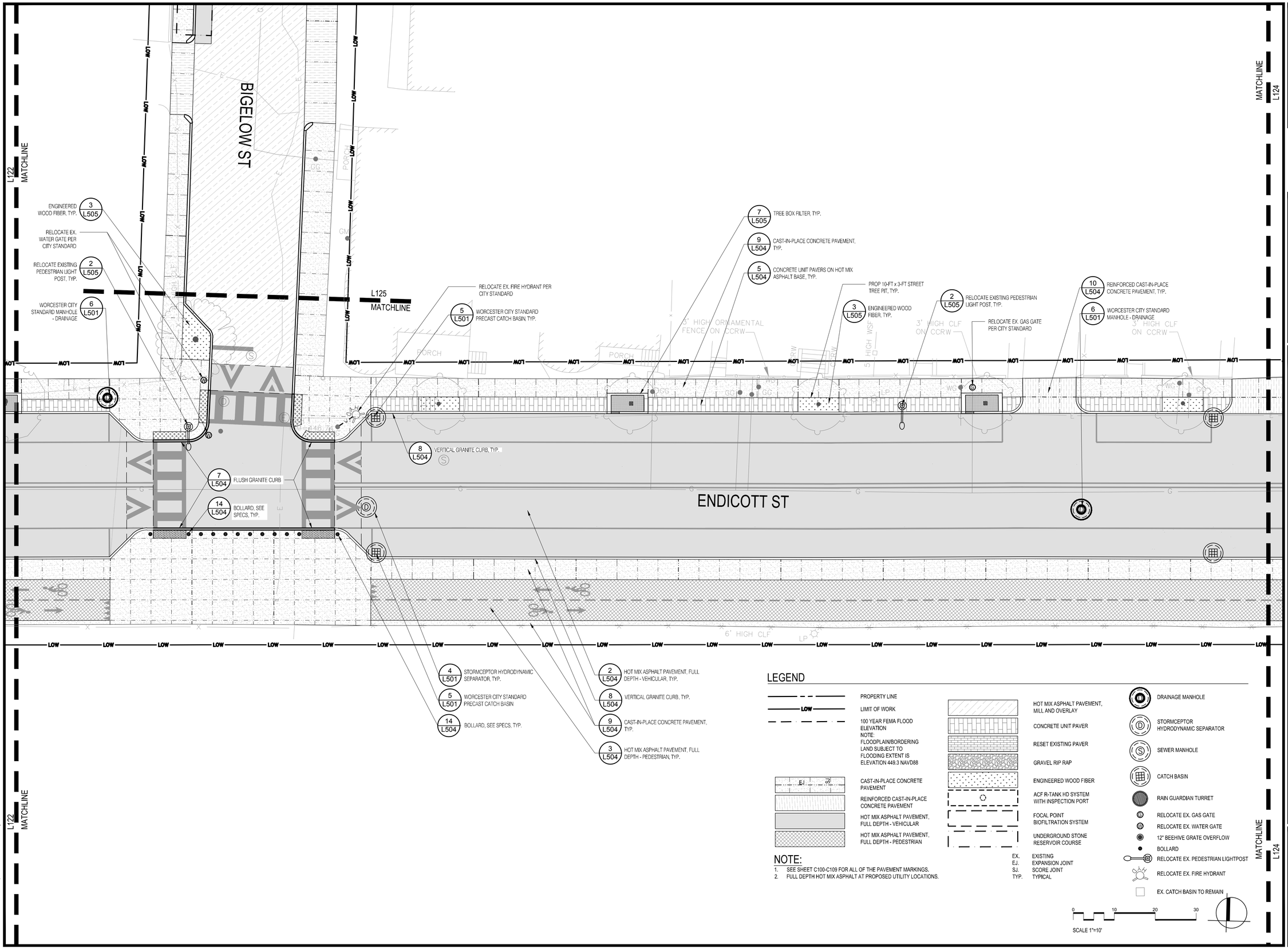

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WORCESTER, MA 01610

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Consultants:

Revisions:

No.	Date	Description

COA:

Seal:
MASSACHUSETTS
Shannon M. Kunkel
No. 40477
REGISTERED LANDSCAPE ARCHITECT

Issued For:
BID DOCUMENTS

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W&S File No.:	

Drawing Title:
MATERIALS ENLARGEMENT PLAN

Sheet Number:
L123

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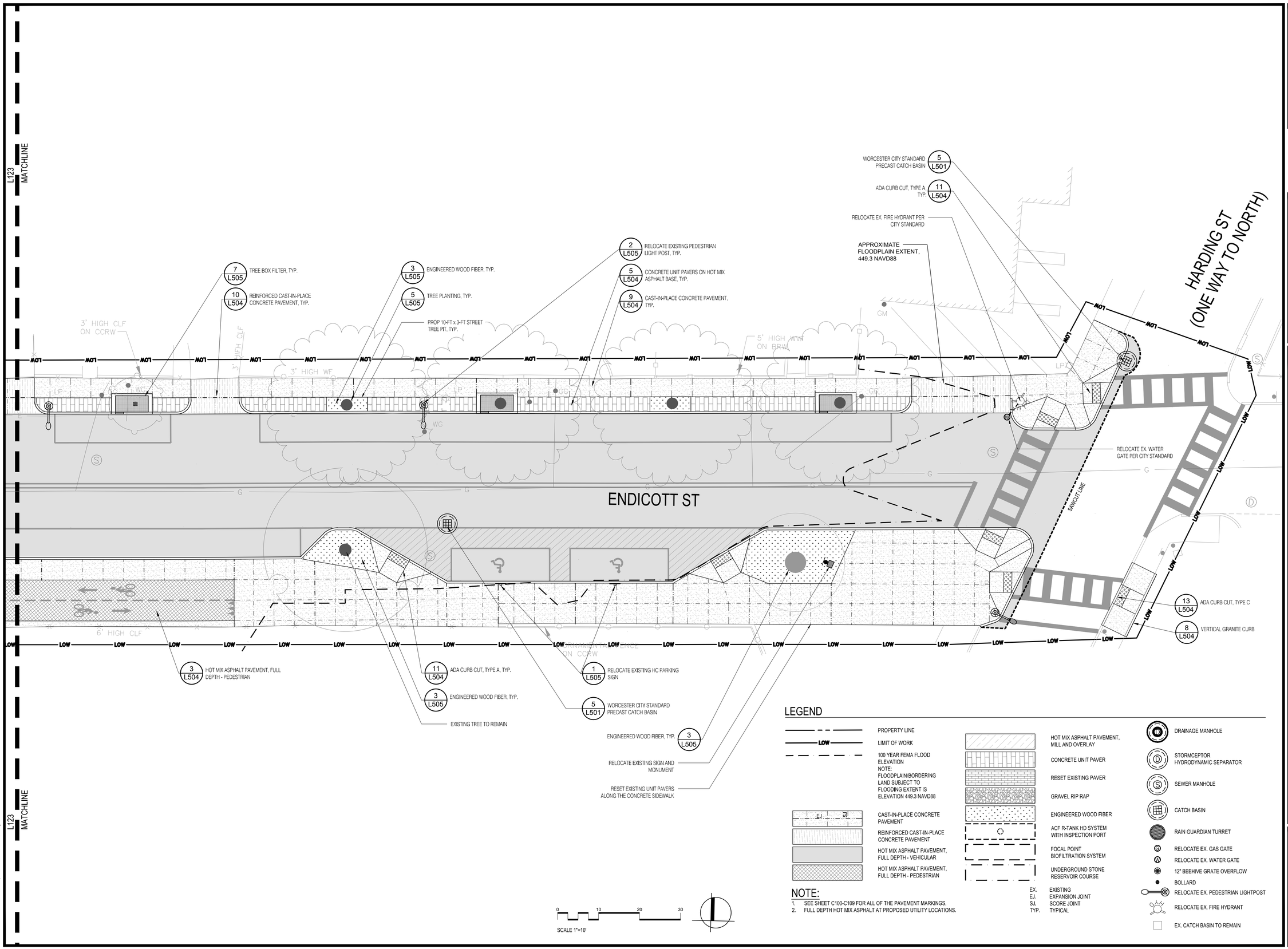

LEGEND

- PROPERTY LINE
- LOW — LIMIT OF WORK
- 100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
- CAST-IN-PLACE CONCRETE PAVEMENT
- REINFORCED CAST-IN-PLACE CONCRETE PAVEMENT
- HOT MIX ASPHALT PAVEMENT, FULL DEPTH - VEHICULAR
- HOT MIX ASPHALT PAVEMENT, FULL DEPTH - PEDESTRIAN
- HOT MIX ASPHALT PAVEMENT, MILL AND OVERLAY
- CONCRETE UNIT PAVER
- RESET EXISTING PAVER
- GRAVEL RIP RAP
- ENGINEERED WOOD FIBER
- ACF R-TANK HD SYSTEM WITH INSPECTION PORT
- FOCAL POINT BIOFILTRATION SYSTEM
- UNDERGROUND STONE RESERVOIR COURSE
- DRAINAGE MANHOLE
- STORMCEPTOR HYDRODYNAMIC SEPARATOR
- SEWER MANHOLE
- CATCH BASIN
- RAIN GUARDIAN TURRET
- RELOCATE EX. GAS GATE
- RELOCATE EX. WATER GATE
- 12" BEEHIVE GRATE OVERFLOW
- BOLLARD
- RELOCATE EX. PEDESTRIAN LIGHTPOST
- RELOCATE EX. FIRE HYDRANT
- EX. CATCH BASIN TO REMAIN

EX. EXISTING
EJ. EXPANSION JOINT
SJ. SCORE JOINT
TYP. TYPICAL

NOTE:

1. SEE SHEET C100-C109 FOR ALL OF THE PAVEMENT MARKINGS.
2. FULL DEPTH HOT MIX ASPHALT AT PROPOSED UTILITY LOCATIONS.

P:\Worcester\W42\00220-SSS Endicott Complete Streets\CAD\Sheet Set\L124XA.dwg

Project:
GREEN ISLAND PHASE II
WORCESTER, MA 01610

Weston & Sampson Engineers, Inc.
85 Devonshire Street, 3rd Floor
Boston, MA 02109
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

COA:

Seal:
MASSACHUSETTS Brandon Mikolajczyk No. 40401 REGISTERED LANDSCAPE ARCHITECT

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Scale: AS SHOWN

Date:	05/27/2025
Drawn By:	TZ, KA
Reviewed By:	MS
Approved By:	BK
W&S Project No.:	ENG_22-1008
W&S File No.:	

Drawing Title:
MATERIALS ENLARGEMENT PLAN

Sheet Number:
L124

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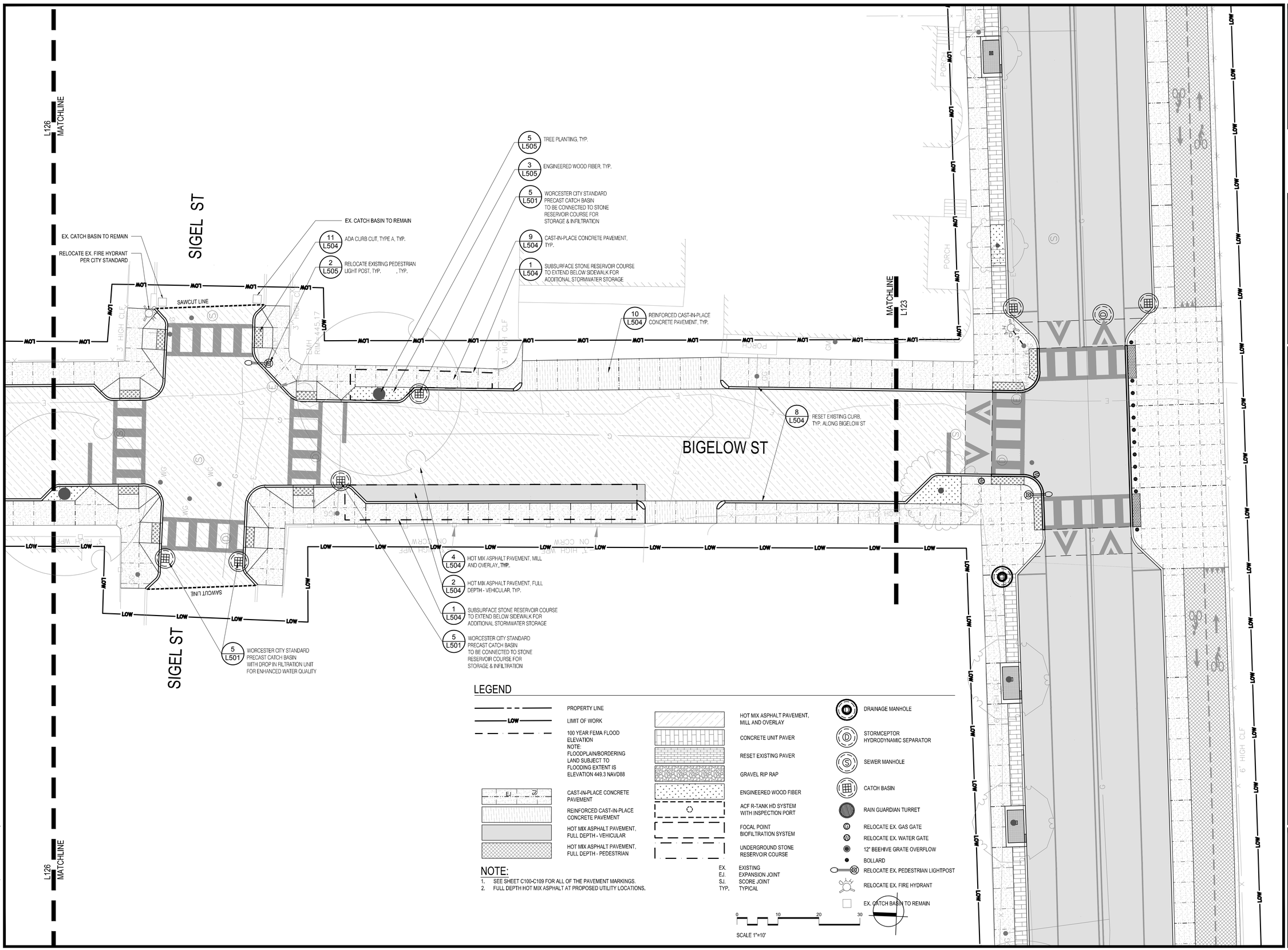

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- 100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
- CAST-IN-PLACE CONCRETE PAVEMENT
- REINFORCED CAST-IN-PLACE CONCRETE PAVEMENT
- HOT MIX ASPHALT PAVEMENT, FULL DEPTH - VEHICULAR
- HOT MIX ASPHALT PAVEMENT, FULL DEPTH - PEDESTRIAN
- HOT MIX ASPHALT PAVEMENT, MILL AND OVERLAY
- CONCRETE UNIT PAVER
- RESET EXISTING PAVER
- GRAVEL RIP RAP
- ENGINEERED WOOD FIBER
- ACF R-TANK HD SYSTEM WITH INSPECTION PORT
- FOCAL POINT BIOFILTRATION SYSTEM
- UNDERGROUND STONE RESERVOIR COURSE
- DRAINAGE MANHOLE
- STORMCEPTOR HYDRODYNAMIC SEPARATOR
- SEWER MANHOLE
- CATCH BASIN
- RAIN GUARDIAN TURRET
- RELOCATE EX. GAS GATE
- RELOCATE EX. WATER GATE
- 12" BEEHIVE GRATE OVERFLOW
- BOLLARD
- RELOCATE EX. PEDESTRIAN LIGHTPOST
- RELOCATE EX. FIRE HYDRANT
- EX. CATCH BASIN TO REMAIN

EX. EXISTING
EJ. EXPANSION JOINT
SJ. SCORE JOINT
TYP. TYPICAL

NOTE:

1. SEE SHEET C100-C109 FOR ALL OF THE PAVEMENT MARKINGS.
2. FULL DEPTH HOT MIX ASPHALT AT PROPOSED UTILITY LOCATIONS.

0 10 20 30

SCALE 1"=10'

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Weston & Sampson
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No. 40401
REGISTERED LANDSCAPE ARCHITECT

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MATERIALS ENLARGEMENT PLAN

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L125

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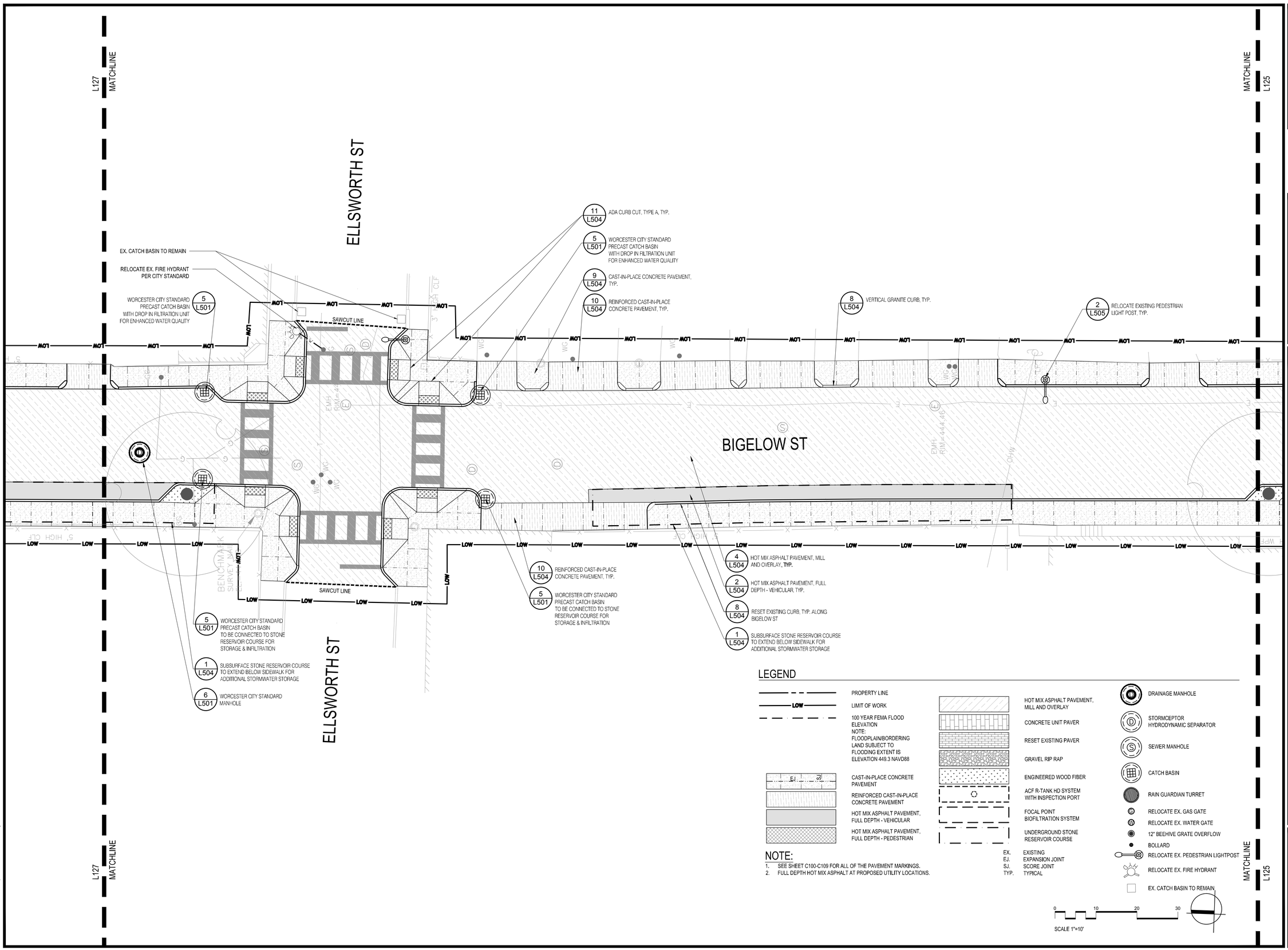

LEGEND

- PROPERTY LINE
- LOW — LIMIT OF WORK
- 100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
- CAST-IN-PLACE CONCRETE PAVEMENT
- REINFORCED CAST-IN-PLACE CONCRETE PAVEMENT
- HOT MIX ASPHALT PAVEMENT, FULL DEPTH - VEHICULAR
- HOT MIX ASPHALT PAVEMENT, FULL DEPTH - PEDESTRIAN
- HOT MIX ASPHALT PAVEMENT, MILL AND OVERLAY
- CONCRETE UNIT PAVER
- RESET EXISTING PAVER
- GRAVEL RIP RAP
- ENGINEERED WOOD FIBER
- ACF R-TANK HD SYSTEM WITH INSPECTION PORT
- FOCAL POINT BIOFILTRATION SYSTEM
- UNDERGROUND STONE RESERVOIR COURSE
- EX. EXISTING
- EJ. EXPANSION JOINT
- SJ. SCORE JOINT
- TYP. TYPICAL
- DRAINAGE MANHOLE
- STORMCEPTOR HYDRODYNAMIC SEPARATOR
- SEWER MANHOLE
- CATCH BASIN
- RAIN GUARDIAN TURRET
- RELOCATE EX. GAS GATE
- RELOCATE EX. WATER GATE
- 12" BEEHIVE GRATE OVERFLOW
- BOLLARD
- RELOCATE EX. PEDESTRIAN LIGHTPOST
- RELOCATE EX. FIRE HYDRANT
- EX. CATCH BASIN TO REMAIN

NOTE:

1. SEE SHEET C100-C109 FOR ALL OF THE PAVEMENT MARKINGS.
2. FULL DEPTH HOT MIX ASPHALT AT PROPOSED UTILITY LOCATIONS.

0 10 20 30

SCALE 1"=10'

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GREEN ISLAND PHASE II
WORCESTER, MA 01610

Weston & Sampson
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Consultants:

Revisions:

No.	Date	Description

COA:

Seal:
MASSACHUSETTS
Brianon M. Kumar
No. 40407
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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MATERIALS ENLARGEMENT PLAN

Sheet Number:
L126

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LAFAYETTE ST

ELLSWORTH ST

BIGELOW ST

MATCHLINE L126

MATCHLINE L126

5 / L501 WORCESTER CITY STANDARD PRECAST CATCH BASIN WITH DROP IN FILTRATION UNIT FOR ENHANCED WATER QUALITY

6 / L501 WORCESTER CITY STANDARD MANHOLE - DRAINAGE

11 / L504 ADA CURB CUT, TYPE A, TYP.

5 / L505 TREE PLANTING, TYP.

3 / L505 ENGINEERED WOOD FIBER, TYP.

8 / L504 RESET EXISTING CURB, TYP. ALONG BIGELOW ST

9 / L504 CAST-IN-PLACE CONCRETE PAVEMENT TYP.

10 / L504 REINFORCED CAST-IN-PLACE CONCRETE PAVEMENT, TYP.

SAWCUT LINE

RELOCATE EX. FIRE HYDRANT PER CITY STANDARD

4 / L504 HOT MIX ASPHALT PAVEMENT, MILL AND OVERLAY, TYP.

2 / L505 RELOCATE EXISTING PEDESTRIAN LIGHT POST, TYP.

2 / L504 HOT MIX ASPHALT PAVEMENT, FULL DEPTH - VEHICULAR, TYP.

1 / L504 SUBSURFACE STONE RESERVOIR COURSE TO EXTEND BELOW SIDEWALK FOR ADDITIONAL STORMWATER STORAGE

BENCHMARK SURVEY MAP

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- 100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN/BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
- CAST-IN-PLACE CONCRETE PAVEMENT
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- CONCRETE UNIT PAVER
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- EX. CATCH BASIN TO REMAIN

EX. EXISTING
EJ. EXPANSION JOINT
SJ. SCORE JOINT
TYP. TYPICAL

NOTE:

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2. FULL DEPTH HOT MIX ASPHALT AT PROPOSED UTILITY LOCATIONS.

SCALE 1"=10'

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GREEN ISLAND PHASE II
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Seal:
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Brandon M. Kuney
No. 49401
REGISTERED LANDSCAPE ARCHITECT

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MATERIALS ENLARGEMENT PLAN

Sheet Number:
L127

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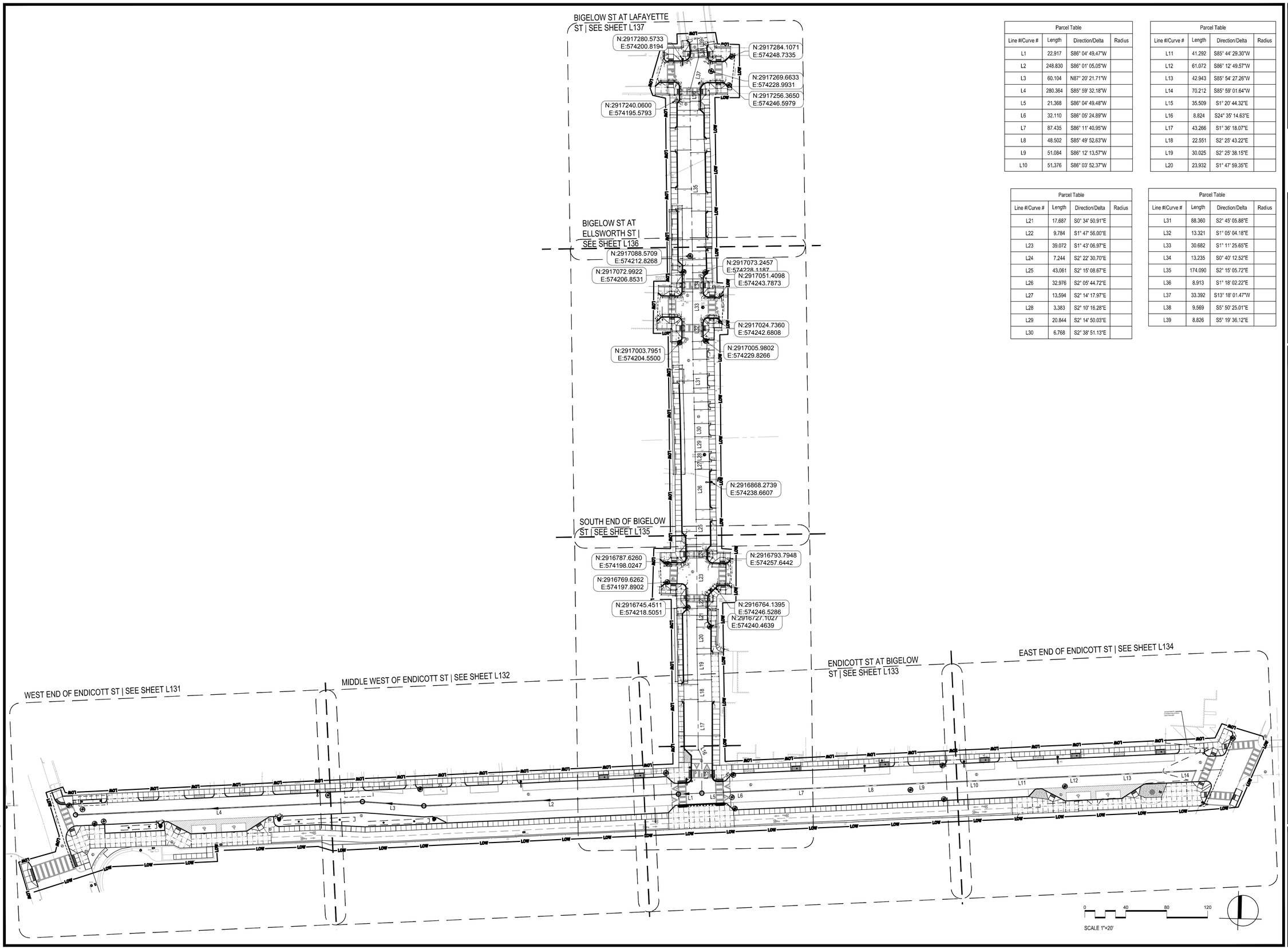

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L1	22.917	S86° 04' 49.47"W	
L2	248.830	S86° 01' 05.05"W	
L3	60.104	N87° 20' 21.71"W	
L4	280.364	S85° 59' 32.18"W	
L5	21.368	S86° 04' 49.48"W	
L6	32.110	S86° 05' 24.89"W	
L7	87.435	S86° 11' 40.95"W	
L8	48.502	S85° 49' 52.63"W	
L9	51.084	S86° 12' 13.57"W	
L10	51.376	S86° 03' 52.37"W	

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L11	41.292	S85° 44' 29.30"W	
L12	61.072	S86° 12' 49.57"W	
L13	42.943	S85° 54' 27.26"W	
L14	70.212	S85° 59' 01.64"W	
L15	35.509	S1° 20' 44.32"E	
L16	8.824	S24° 35' 14.63"E	
L17	43.266	S1° 36' 18.07"E	
L18	22.551	S2° 25' 43.22"E	
L19	30.025	S2° 25' 38.15"E	
L20	23.932	S1° 47' 59.35"E	

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L21	17.687	S0° 34' 50.91"E	
L22	9.784	S1° 47' 56.00"E	
L23	39.072	S1° 43' 06.97"E	
L24	7.244	S2° 22' 30.70"E	
L25	43.061	S2° 15' 08.67"E	
L26	32.976	S2° 05' 44.72"E	
L27	13.594	S2° 14' 17.97"E	
L28	3.383	S2° 10' 16.28"E	
L29	20.844	S2° 14' 50.03"E	
L30	6.768	S2° 38' 51.13"E	

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L31	88.360	S2° 45' 05.88"E	
L32	13.321	S1° 05' 04.18"E	
L33	30.682	S1° 11' 25.65"E	
L34	13.235	S0° 40' 12.52"E	
L35	174.090	S2° 15' 05.72"E	
L36	8.913	S1° 18' 02.22"E	
L37	33.392	S13° 18' 01.47"W	
L38	9.569	S5° 50' 25.01"E	
L39	8.826	S5° 19' 36.12"E	

Project:

GREEN ISLAND PHASE II

WORCESTER, MA 01610

Weston & Sampson

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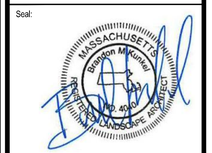

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Drawing Title:

OVERALL LAYOUT PLAN

Sheet Number:

L130

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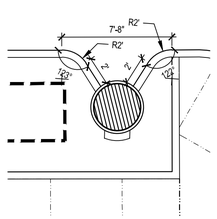
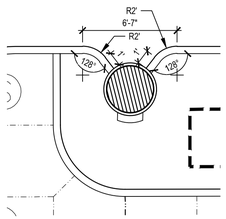
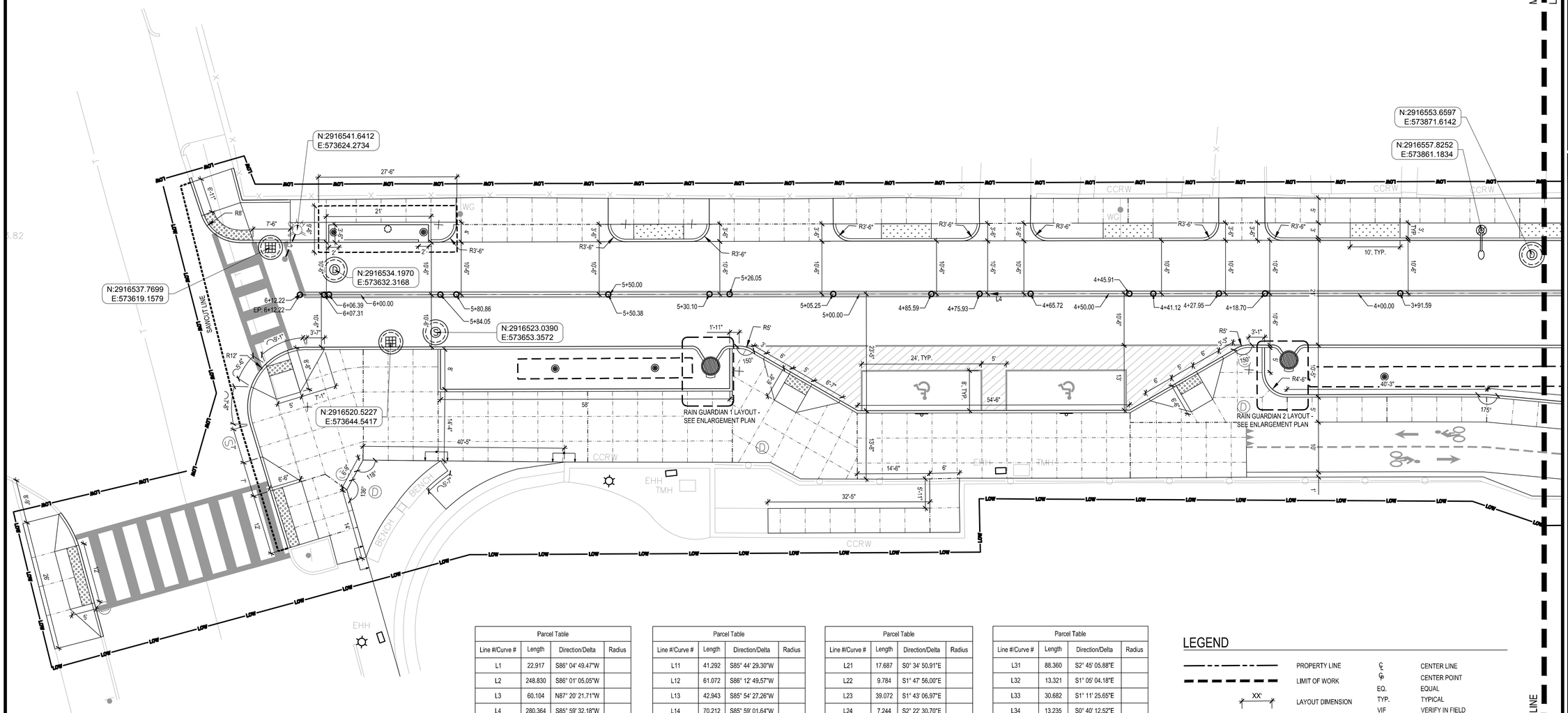


ENLARGEMENT PLAN: RAIN GUARDIAN 1 LAYOUT



ENLARGEMENT PLAN: RAIN GUARDIAN 2 LAYOUT



Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L1	22.917	S86° 04' 49.47"W	
L2	248.830	S86° 01' 05.05"W	
L3	60.104	N87° 20' 21.71"W	
L4	280.364	S85° 59' 32.18"W	
L5	21.368	S86° 04' 49.48"W	
L6	32.110	S86° 05' 24.89"W	
L7	87.435	S86° 11' 40.95"W	
L8	48.502	S85° 49' 52.63"W	
L9	51.084	S86° 12' 13.57"W	
L10	51.376	S86° 03' 52.37"W	

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L11	41.292	S85° 44' 29.30"W	
L12	61.072	S86° 12' 49.57"W	
L13	42.943	S85° 54' 27.26"W	
L14	70.212	S85° 59' 01.64"W	
L15	35.509	S1° 20' 44.32"E	
L16	8.824	S24° 35' 14.63"E	
L17	43.266	S1° 36' 18.07"E	
L18	22.551	S2° 25' 43.22"E	
L19	30.025	S2° 25' 38.15"E	
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Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L21	17.687	S0° 34' 50.91"E	
L22	9.784	S1° 47' 56.00"E	
L23	39.072	S1° 43' 06.97"E	
L24	7.244	S2° 22' 30.70"E	
L25	43.061	S2° 15' 08.67"E	
L26	32.976	S2° 05' 44.72"E	
L27	13.594	S2° 14' 17.97"E	
L28	3.383	S2° 10' 16.28"E	
L29	20.844	S2° 14' 50.03"E	
L30	6.768	S2° 38' 51.13"E	

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L31	88.360	S2° 45' 05.88"E	
L32	13.321	S1° 05' 04.18"E	
L33	30.662	S1° 11' 25.65"E	
L34	13.235	S0° 40' 12.52"E	
L35	174.090	S2° 15' 05.72"E	
L36	8.913	S1° 18' 02.22"E	
L37	33.392	S13° 18' 01.47"W	
L38	9.569	S5° 50' 25.01"E	
L39	8.826	S5° 19' 36.12"E	

LEGEND

	PROPERTY LINE	℄	CENTER LINE
	LIMIT OF WORK	℗	CENTER POINT
XX'	LAYOUT DIMENSION	EQ.	EQUAL
		TYP.	TYPICAL
X'-X"	ARC DIMENSION	VIF	VERIFY IN FIELD
		BP	BASE POINT
R X'-X"	RADIUS DIMENSION	Mid	MIDDLE
		PCC	POINT OF COMPOUND CURVE
XX°	ANGLE DIMENSION	PT	POINT OF TANGENCY
		PRC	POINT OF REVERSE CURVE
		PC	POINT OF CURVE
		PI	POINT OF INTERSECTION
		EP	EDGE OF PAVEMENT / END POINT

0 10 20 30

SCALE 1"=10'

Project:
GREEN ISLAND PHASE II

WORCESTER, MA 01610

Weston & Sampson

Weston & Sampson Engineers, Inc.
85 Devonshire Street, 3rd Floor
Boston, MA 02109
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Consultants:

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Seal:

MASSACHUSETTS
Brandon M. Kuney
No. 40003
REGISTERED LANDSCAPE ARCHITECT

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LAYOUT ENLARGEMENT PLAN

Sheet Number:
L131

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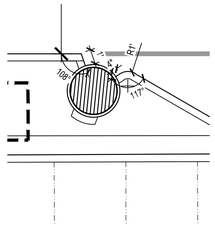

L131 MATCHLINE

MATCHLINE L133

N:2916561.7828
E:573961.4513

N:2916566.6294
E:573980.8925

N:2916571.5505
E:574059.5560

CCRW

WG

LOW

TMH

EHH

R3'-6"

3'-6"

10'-3"

10'-8"

11'

15'-1"

18'-11"

17'-6"

10'-6"

10'-0"

5'

3'

10', TYP.

5' TYP.

3' TYP.

3+48.98

3+50.00

3+40.47

3+28.43

PI: 3+31.85

3+00.00

L3

2+93.46

2+77.58

PI: 2+71.75

2+63.08

2+62.21

2+50.00

2+49.60

2+43.31

2+30.71

2+07.77

2+00.00

1+93.49

1+79.56

L2

1+50.00

1+38.03

1+00.00

0+90.04

43'-11"

175'

80'-4"

RAIN GUARDIAN 3 LAYOUT - SEE ENLARGEMENT PLAN

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L1	22.917	S86° 04' 49.47"W	
L2	248.830	S86° 01' 05.05"W	
L3	60.104	N87° 20' 21.71"W	
L4	280.364	S85° 59' 32.18"W	
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L37	33.392	S13° 18' 01.47"W	
L38	9.569	S5° 50' 25.01"E	
L39	8.826	S5° 19' 36.12"E	

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- XX' LAYOUT DIMENSION
- X'-X" ARC DIMENSION
- R X'-X" RADIUS DIMENSION
- XX° ANGLE DIMENSION

℄	CENTER LINE
℗	CENTER POINT
EQ.	EQUAL
TYP.	TYPICAL
VIF	VERIFY IN FIELD
BP	BASE POINT
Mid	MIDDLE
PCC	POINT OF COMPOUND CURVE
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PC	POINT OF CURVE
PI	POINT OF INTERSECTION
EP	EDGE OF PAVEMENT / END POINT

0 10 20 30

SCALE 1"=10'

P:\WP\Worcester MA\29025.1000 Endicott Complete Streets\CAD\Sheet Set\L132.dwg

Project:
GREEN ISLAND PHASE II
WORCESTER, MA 01610

Weston & Sampson
Weston & Sampson Engineers, Inc.
85 Devonshire Street, 3rd Floor
Boston, MA 02109
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

COA:

Seal:
Commonwealth of Massachusetts
Shannon M. Kunkel
No. 40417
Registered Landscape Architect

Issued For:
BID DOCUMENTS

Scale: AS SHOWN

Date: 05/27/2025
Drawn By: TZ, KA
Reviewed By: MS
Approved By: BK
W&S Project No.: ENG_22-1008
W&S File No.:

Drawing Title:
LAYOUT ENLARGEMENT PLAN

Sheet Number:
L132

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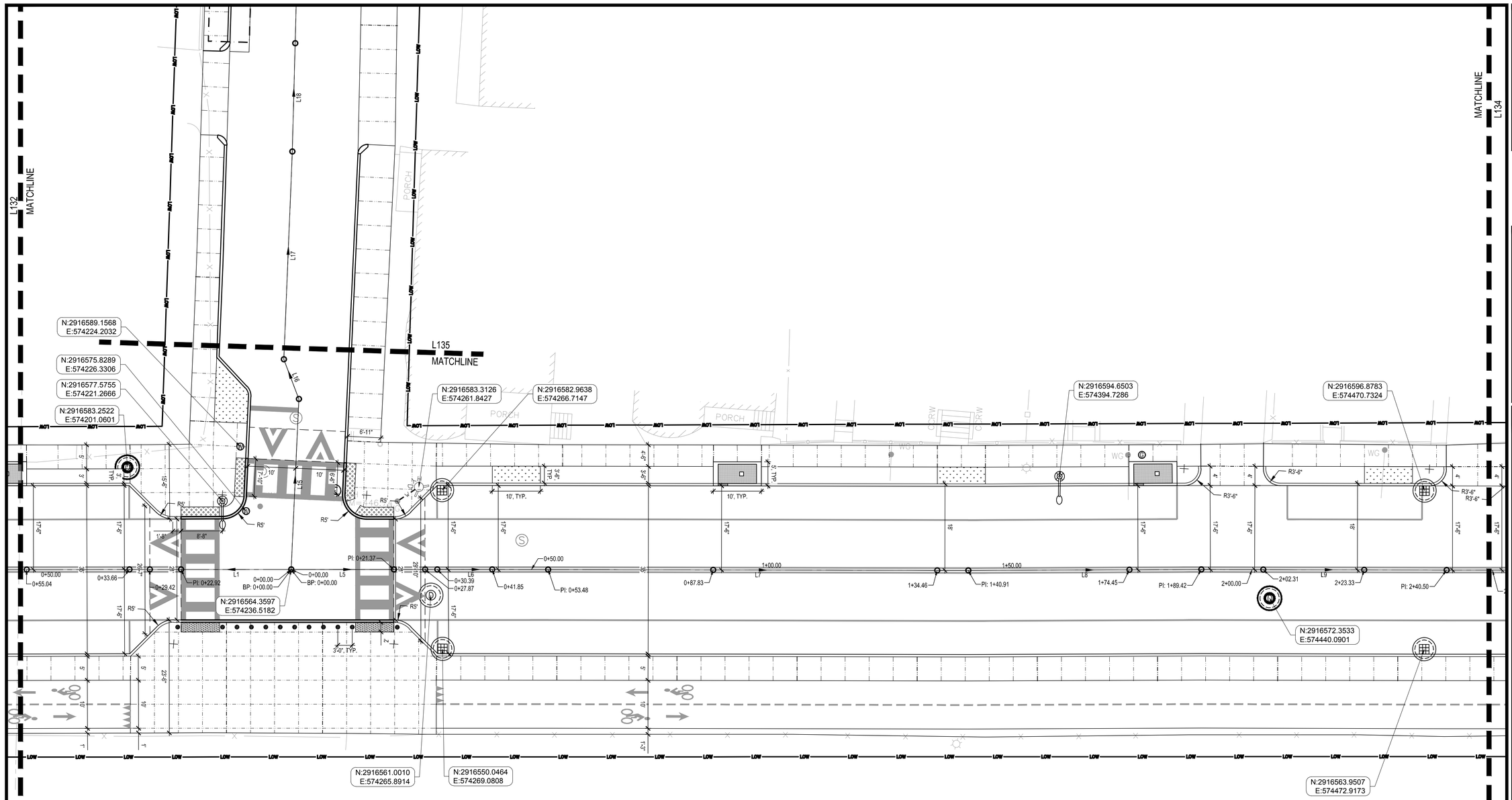

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L1	22.917	S86° 04' 49.47"W	
L2	248.830	S86° 01' 05.05"W	
L3	60.104	N87° 20' 21.71"W	
L4	280.364	S85° 59' 32.18"W	
L5	21.368	S86° 04' 49.48"W	
L6	32.110	S86° 05' 24.89"W	
L7	87.435	S86° 11' 40.95"W	
L8	48.502	S85° 49' 52.63"W	
L9	51.084	S86° 12' 13.57"W	
L10	51.376	S86° 03' 52.37"W	

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L11	41.292	S85° 44' 29.30"W	
L12	61.072	S86° 12' 49.57"W	
L13	42.943	S85° 54' 27.26"W	
L14	70.212	S85° 59' 01.64"W	
L15	35.509	S1° 20' 44.32"E	
L16	8.824	S24° 35' 14.63"E	
L17	43.266	S1° 36' 18.07"E	
L18	22.551	S2° 25' 43.22"E	
L19	30.025	S2° 25' 38.15"E	
L20	23.932	S1° 47' 59.35"E	

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L21	17.687	S0° 34' 50.91"E	
L22	9.784	S1° 47' 56.00"E	
L23	39.072	S1° 43' 06.97"E	
L24	7.244	S2° 22' 30.70"E	
L25	43.061	S2° 15' 08.67"E	
L26	32.976	S2° 05' 44.72"E	
L27	13.594	S2° 14' 17.97"E	
L28	3.383	S2° 10' 16.28"E	
L29	20.844	S2° 14' 50.03"E	
L30	6.768	S2° 38' 51.13"E	

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L31	88.360	S2° 45' 05.88"E	
L32	13.321	S1° 05' 04.18"E	
L33	30.682	S1° 11' 25.65"E	
L34	13.235	S0° 40' 12.52"E	
L35	174.090	S2° 15' 05.72"E	
L36	8.913	S1° 18' 02.22"E	
L37	33.392	S13° 18' 01.47"W	
L38	9.569	S5° 50' 25.01"E	
L39	8.826	S5° 19' 36.12"E	

LEGEND

PROPERTY LINE
LIMIT OF WORK
XX' LAYOUT DIMENSION
X'-X" ARC DIMENSION
R X'-X" RADIUS DIMENSION
XX° ANGLE DIMENSION

℄ CENTER LINE
℗ CENTER POINT
EQ. EQUAL
TYP. TYPICAL
VIF VERIFY IN FIELD
BP BASE POINT
Mid MIDDLE
PCC POINT OF COMPOUND CURVE
PT POINT OF TANGENCY
PRC POINT OF REVERSE CURVE
PC POINT OF CURVE
PI POINT OF INTERSECTION
EP EDGE OF PAVEMENT / END POINT

0 10 20 30
SCALE 1"=10'

Project:
GREEN ISLAND PHASE II
WORCESTER, MA 01610

Weston & Sampson
Weston & Sampson Engineers, Inc.
85 Devonshire Street, 3rd Floor
Boston, MA 02109
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

COA:

Seal:
MASSACHUSETTS
Brandon Mitchell
No. 40401
REGISTERED LANDSCAPE ARCHITECT

Issued For:
BID DOCUMENTS

Scale: AS SHOWN

Date:	05/27/2025
Drawn By:	TZ, KA
Reviewed By:	MS
Approved By:	BK
W&S Project No.:	ENG_22-1008
W&S File No.:	

Drawing Title:
LAYOUT ENLARGEMENT PLAN

Sheet Number:
L133

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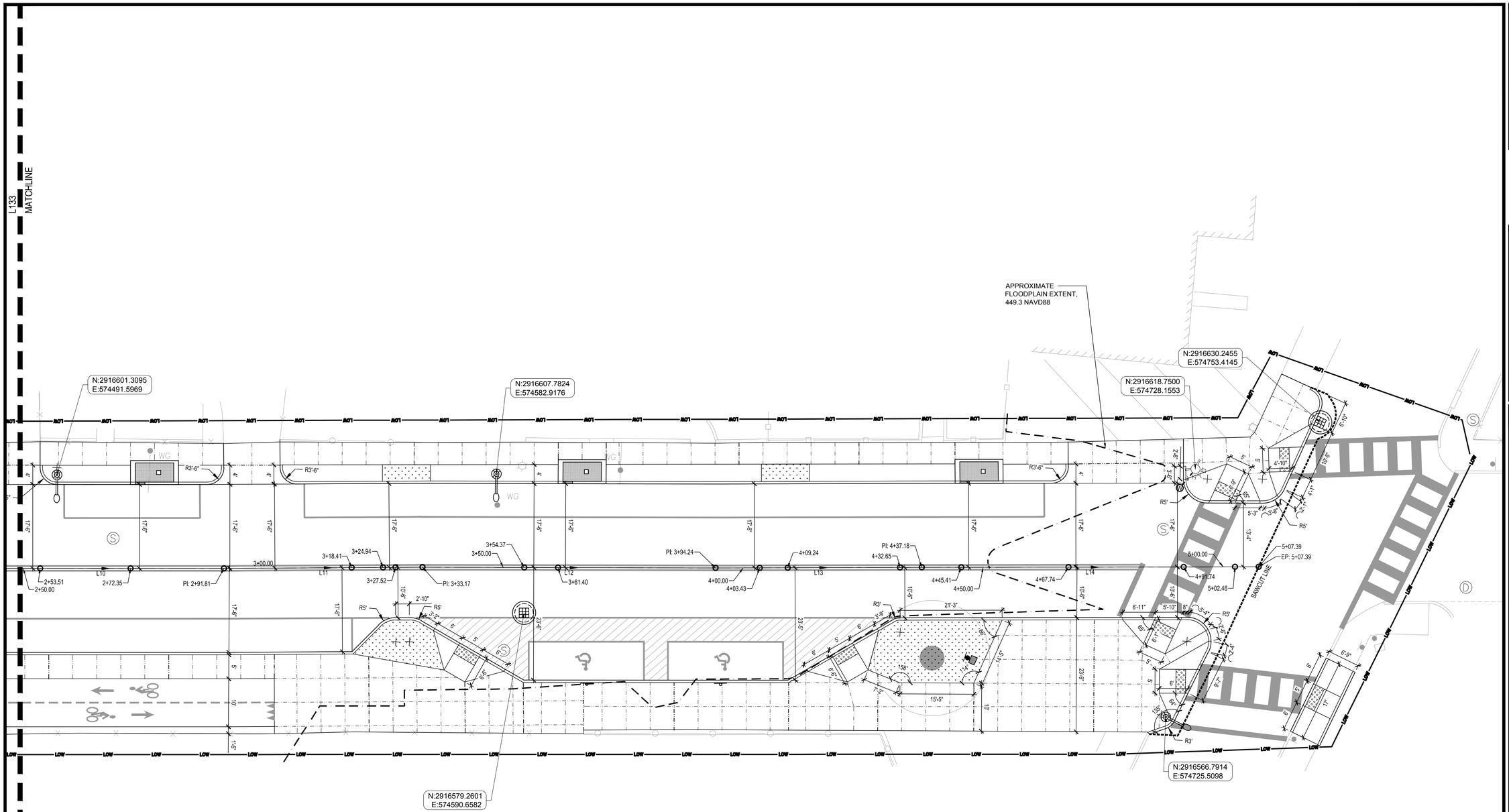

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L6	32.110	S86° 05' 24.89"W	
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L10	51.376	S86° 03' 52.37"W	

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
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L13	42.943	S85° 54' 27.26"W	
L14	70.212	S85° 59' 01.64"W	
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L16	8.824	S24° 35' 14.63"E	
L17	43.266	S1° 36' 18.07"E	
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L19	30.025	S2° 25' 38.15"E	
L20	23.932	S1° 47' 59.35"E	

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L36	8.913	S1° 18' 02.22"E	
L37	33.392	S13° 18' 01.47"W	
L38	9.569	S5° 50' 25.01"E	
L39	8.826	S5° 19' 36.12"E	

LEGEND

PROPERTY LINE		℄	CENTER LINE
LIMIT OF WORK		℄	CENTER POINT
XX'	LAYOUT DIMENSION	EQ.	EQUAL
X'-X"	ARC DIMENSION	TYP.	TYPICAL
R X'-X"	RADIUS DIMENSION	VIF	VERIFY IN FIELD
XX°	ANGLE DIMENSION	BP	BASE POINT
		Mid	MIDDLE
		PCC	POINT OF COMPOUND CURVE
		PT	POINT OF TANGENCY
		PRC	POINT OF REVERSE CURVE
		PC	POINT OF CURVE
		PI	POINT OF INTERSECTION
		EP	EDGE OF PAVEMENT / END POINT

SCALE 1"=10'

Project:
GREEN ISLAND PHASE II
WORCESTER, MA 01610

Weston & Sampson

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Boston, MA 02109
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Consultants:

Revisions:

No.	Date	Description

COA:

Seal:

Issued For:
BID DOCUMENTS

Scale: AS SHOWN

Date:	05/27/2025
Drawn By:	TZ, KA
Reviewed By:	MS
Approved By:	BK
W&S Project No.:	ENG_22-1008
W&S File No.:	

Drawing Title:
LAYOUT ENLARGEMENT PLAN

Sheet Number:
L134

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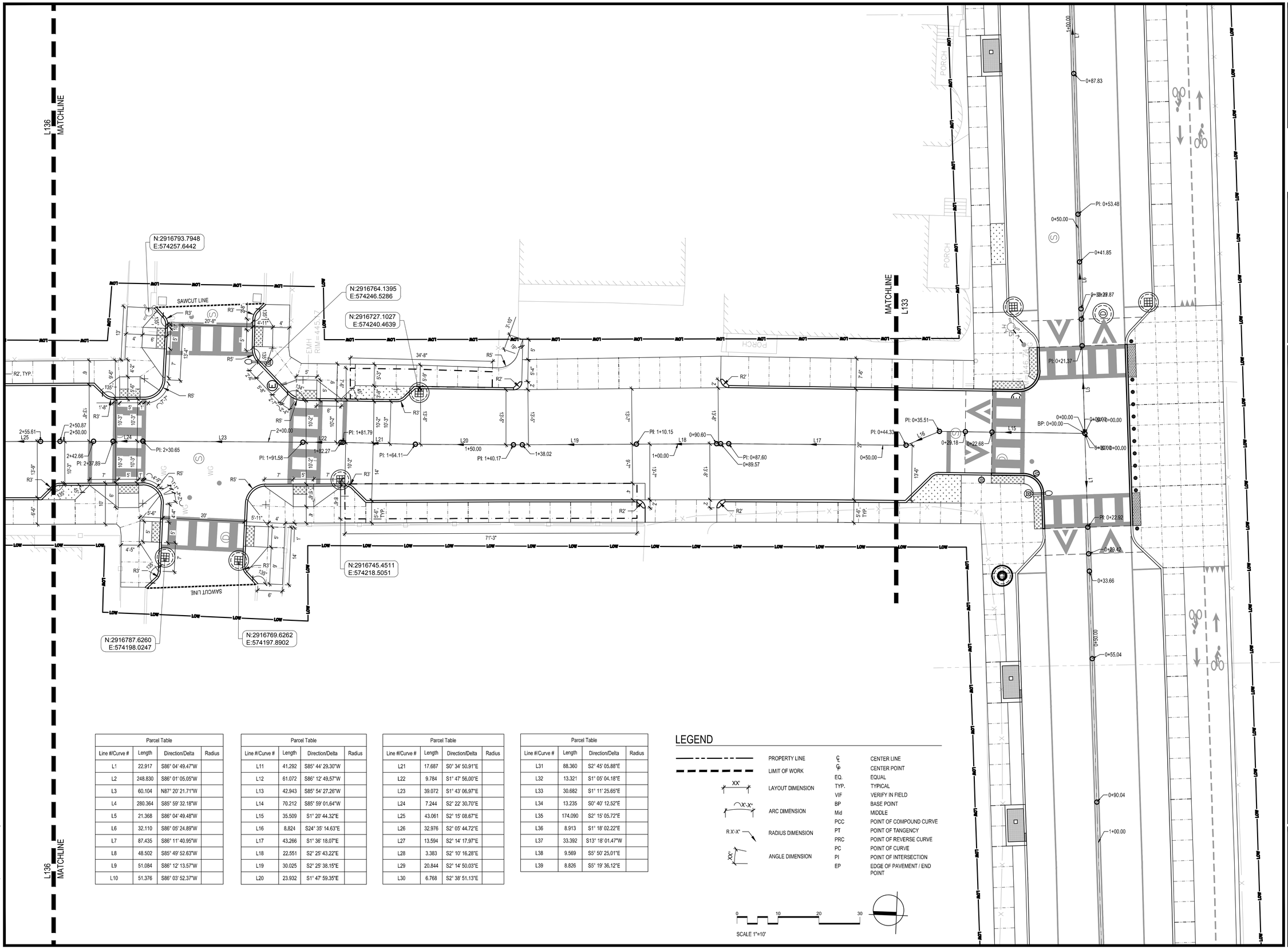

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
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L2	248.830	S86° 01' 05.05"W	
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L5	21.368	S86° 04' 49.48"W	
L6	32.110	S86° 05' 24.89"W	
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L14	70.212	S85° 59' 01.64"W	
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L16	8.824	S24° 35' 14.63"E	
L17	43.266	S1° 36' 18.07"E	
L18	22.551	S2° 25' 43.22"E	
L19	30.025	S2° 25' 38.15"E	
L20	23.932	S1° 47' 59.35"E	

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Line #/Curve #	Length	Direction/Delta	Radius
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L38	9.569	S5° 50' 25.01"E	
L39	8.826	S5° 19' 36.12"E	

LEGEND

	PROPERTY LINE	℄	CENTER LINE
	LIMIT OF WORK	℄	CENTER POINT
XX'	LAYOUT DIMENSION	EQ.	EQUAL
		TYP.	TYPICAL
		VIF	VERIFY IN FIELD
X'-X"	ARC DIMENSION	BP	BASE POINT
		Mid	MIDDLE
		PCC	POINT OF COMPOUND CURVE
R X'-X"	RADIUS DIMENSION	PT	POINT OF TANGENCY
		PRC	POINT OF REVERSE CURVE
		PC	POINT OF CURVE
XX°	ANGLE DIMENSION	PI	POINT OF INTERSECTION
		EP	EDGE OF PAVEMENT / END POINT

0 10 20 30

SCALE 1"=10'

Project:
GREEN ISLAND PHASE II

WORCESTER, MA 01610

Weston & Sampson

Weston & Sampson Engineers, Inc.
85 Devonshire Street, 3rd Floor
Boston, MA 02109
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

COA:

Seal:

MASSACHUSETTS
Brennon Michael Kennedy
No. 40
REGISTERED LANDSCAPE ARCHITECT

Issued For:

BID DOCUMENTS

Scale: AS SHOWN

Date:	05/27/2025
Drawn By:	TZ, KA
Reviewed By:	MS
Approved By:	BK
W&S Project No.:	ENG_22-1008
W&S File No.:	

Drawing Title:

LAYOUT ENLARGEMENT PLAN

Sheet Number:

L135

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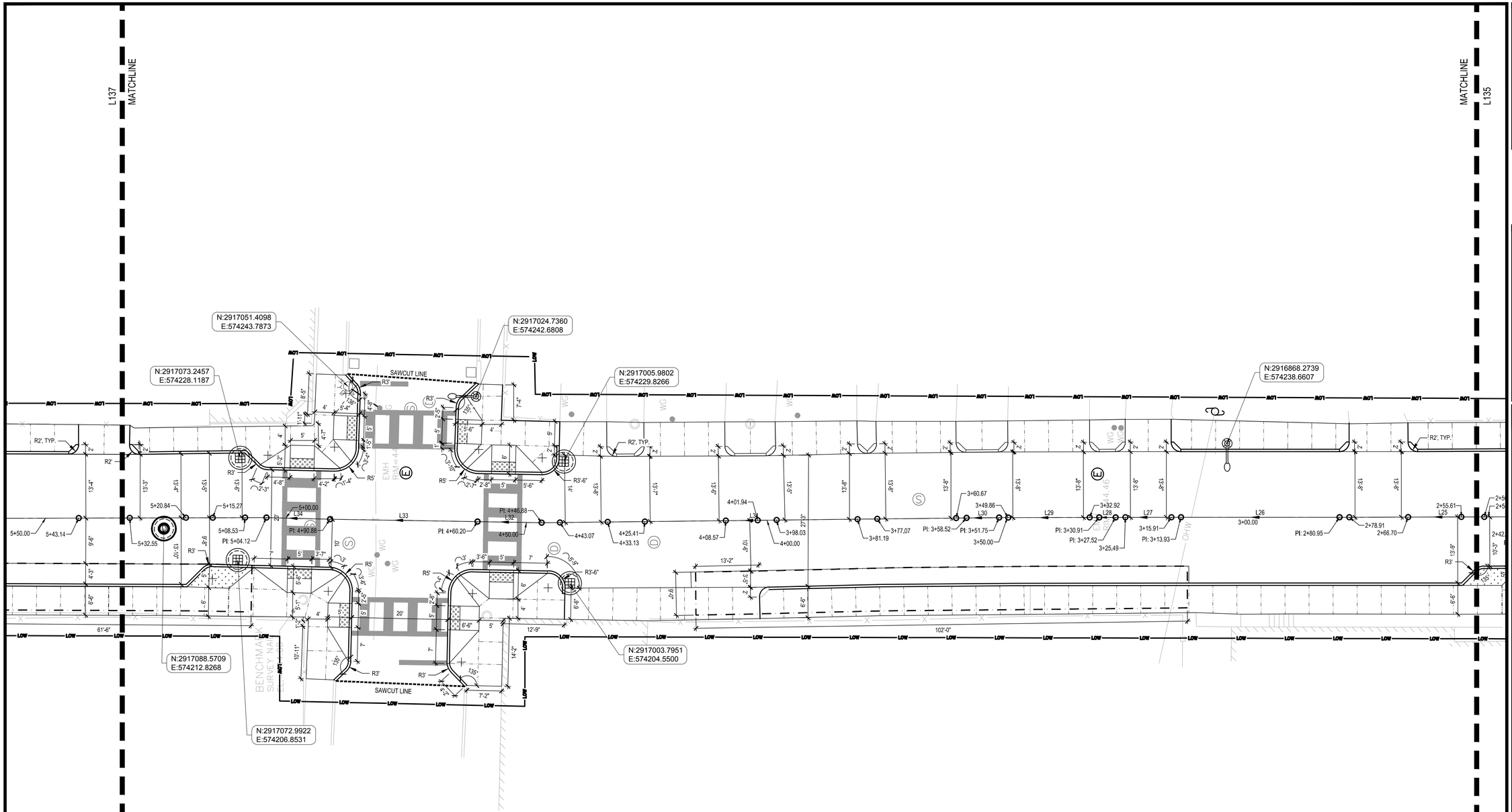

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L1	22.917	S86° 04' 49.47"W	
L2	248.830	S86° 01' 05.05"W	
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L6	32.110	S86° 05' 24.89"W	
L7	87.435	S86° 11' 40.95"W	
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L9	51.084	S86° 12' 13.57"W	
L10	51.376	S86° 03' 52.37"W	

Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L11	41.292	S85° 44' 29.30"W	
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L18	22.551	S2° 25' 43.22"E	
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Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
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L22	9.784	S1° 47' 56.00"E	
L23	39.072	S1° 43' 06.97"E	
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Parcel Table			
Line #/Curve #	Length	Direction/Delta	Radius
L31	88.360	S2° 45' 05.88"E	
L32	13.321	S1° 05' 04.18"E	
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L34	13.235	S0° 40' 12.52"E	
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LEGEND

PROPERTY LINE
LIMIT OF WORK
XX' LAYOUT DIMENSION
X'-X" ARC DIMENSION
R X'-X" RADIUS DIMENSION
XX° ANGLE DIMENSION

℄ CENTER LINE
℄ CENTER POINT
EQ. EQUAL
TYP. TYPICAL
VIF VERIFY IN FIELD
BP BASE POINT
Mid MIDDLE
PCC POINT OF COMPOUND CURVE
PT POINT OF TANGENCY
PRC POINT OF REVERSE CURVE
PC POINT OF CURVE
PI POINT OF INTERSECTION
EP EDGE OF PAVEMENT / END POINT

0 10 20 30
SCALE 1"=10'

Project:
GREEN ISLAND PHASE II
WORCESTER, MA 01610

Weston & Sampson
Weston & Sampson Engineers, Inc.
85 Devonshire Street, 3rd Floor
Boston, MA 02109
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

COA:

Seal:
MASSACHUSETTS
Brandon M. Kuney
No. 40400
REGISTERED LANDSCAPE ARCHITECT

Issued For:
BID DOCUMENTS

Scale: AS SHOWN

Date: 05/27/2025
Drawn By: TZ, KA
Reviewed By: MS
Approved By: BK
W&S Project No.: ENG_22-1008
W&S File No.:

Drawing Title:
LAYOUT ENLARGEMENT PLAN

Sheet Number:
L136

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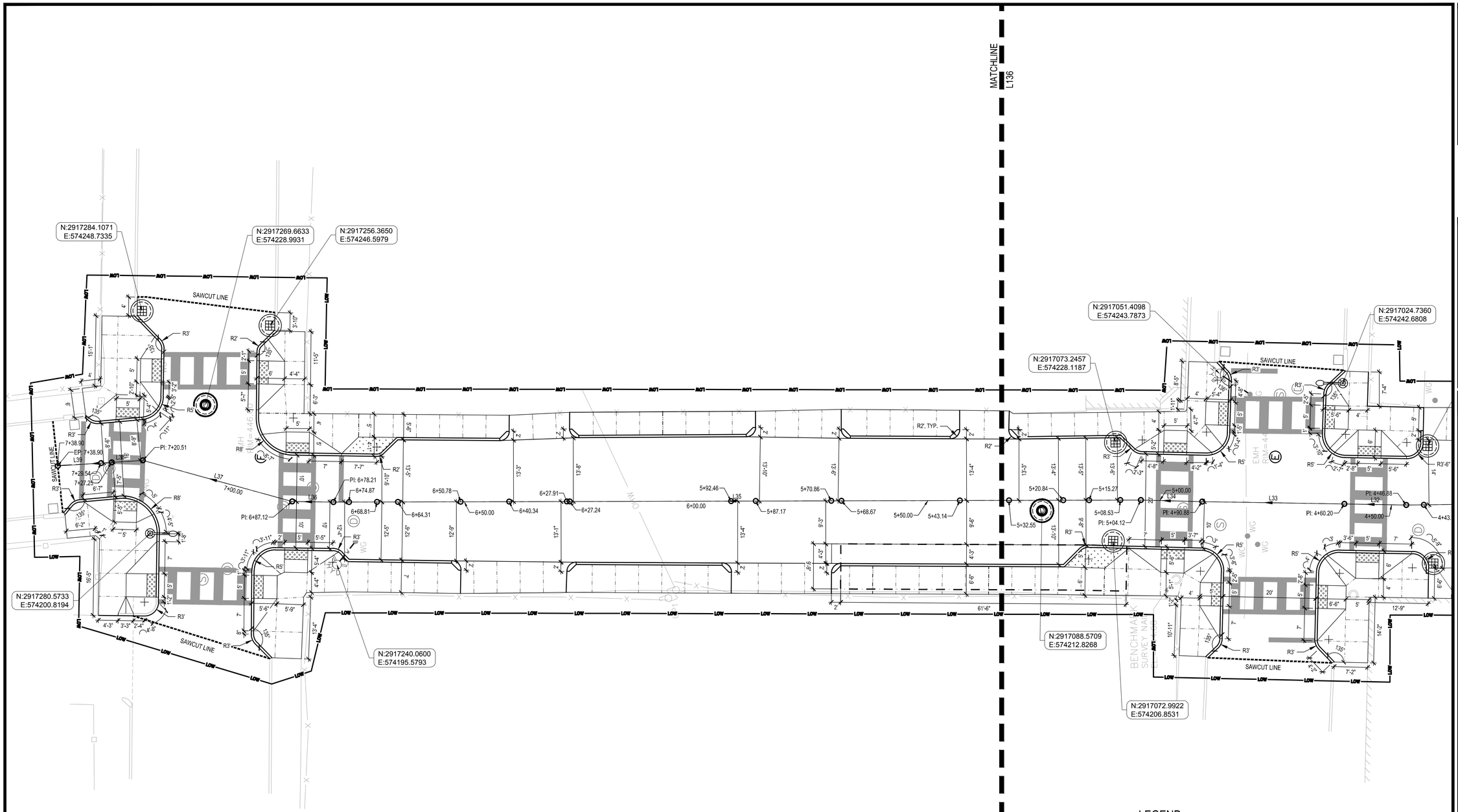

Parcel Table			
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L34	13.235	S0° 40' 12.52"E	
L35	174.090	S2° 15' 05.72"E	
L36	8.913	S1° 18' 02.22"E	
L37	33.392	S13° 18' 01.47"W	
L38	9.569	S5° 50' 25.01"E	
L39	8.826	S5° 19' 36.12"E	

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- XX' — LAYOUT DIMENSION
- X'-X" — ARC DIMENSION
- R X'-X" — RADIUS DIMENSION
- XX° — ANGLE DIMENSION

℄	CENTER LINE
℗	CENTER POINT
EQ.	EQUAL
TYP.	TYPICAL
VIF	VERIFY IN FIELD
BP	BASE POINT
Mid	MIDDLE
PCC	POINT OF COMPOUND CURVE
PT	POINT OF TANGENCY
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Project:
GREEN ISLAND PHASE II
WORCESTER, MA 01610

Weston & Sampson
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85 Devonshire Street, 3rd Floor
Boston, MA 02109
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

COA:

Seal:
Shannon M. Kunkel
No. 40409
REGISTERED LANDSCAPE ARCHITECT
COMMONWEALTH OF MASSACHUSETTS

Issued For:
BID DOCUMENTS

Scale: AS SHOWN

Date:	05/27/2025
Drawn By:	TZ, KA
Reviewed By:	MS
Approved By:	BK
W&S Project No.:	ENG_22-1008
W&S File No.:	

Drawing Title:
LAYOUT ENLARGEMENT PLAN

Sheet Number:
L137

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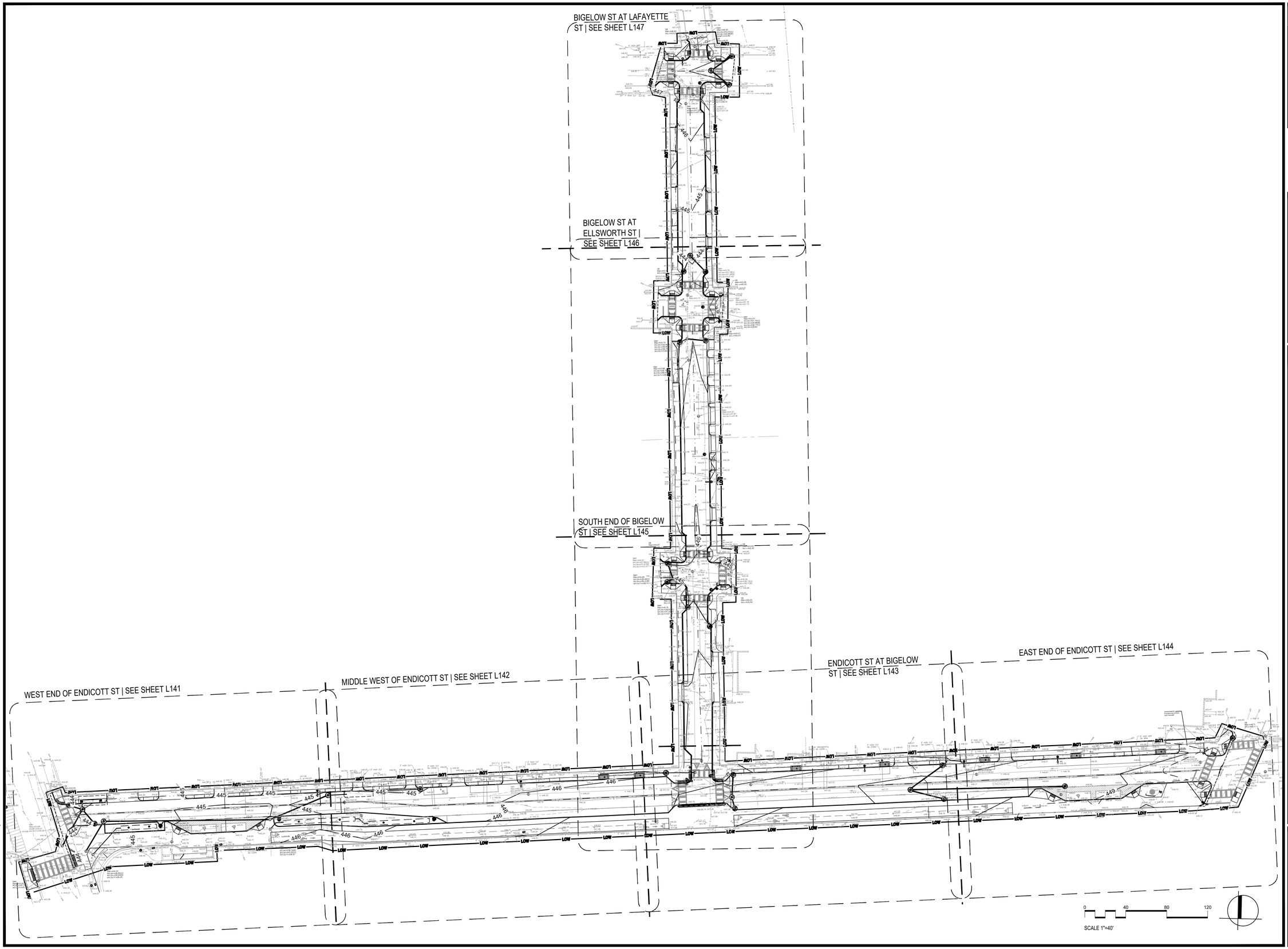

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Project:

GREEN ISLAND PHASE II

WORCESTER, MA 01610

Weston & Sampson

Weston & Sampson Engineers, Inc.
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Revisions:

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MASSACHUSETTS
Brandon Mikkelsen
NO. 4040
REGISTERED LANDSCAPE ARCHITECT

Issued For:

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Date:	05/27/2025
Drawn By:	TZ, KA
Reviewed By:	MS
Approved By:	BK
W&S Project No.:	ENG_22-1008
W&S File No.:	

Drawing Title:

OVERALL GRADING AND DRAINAGE PLAN

Sheet Number:

L140

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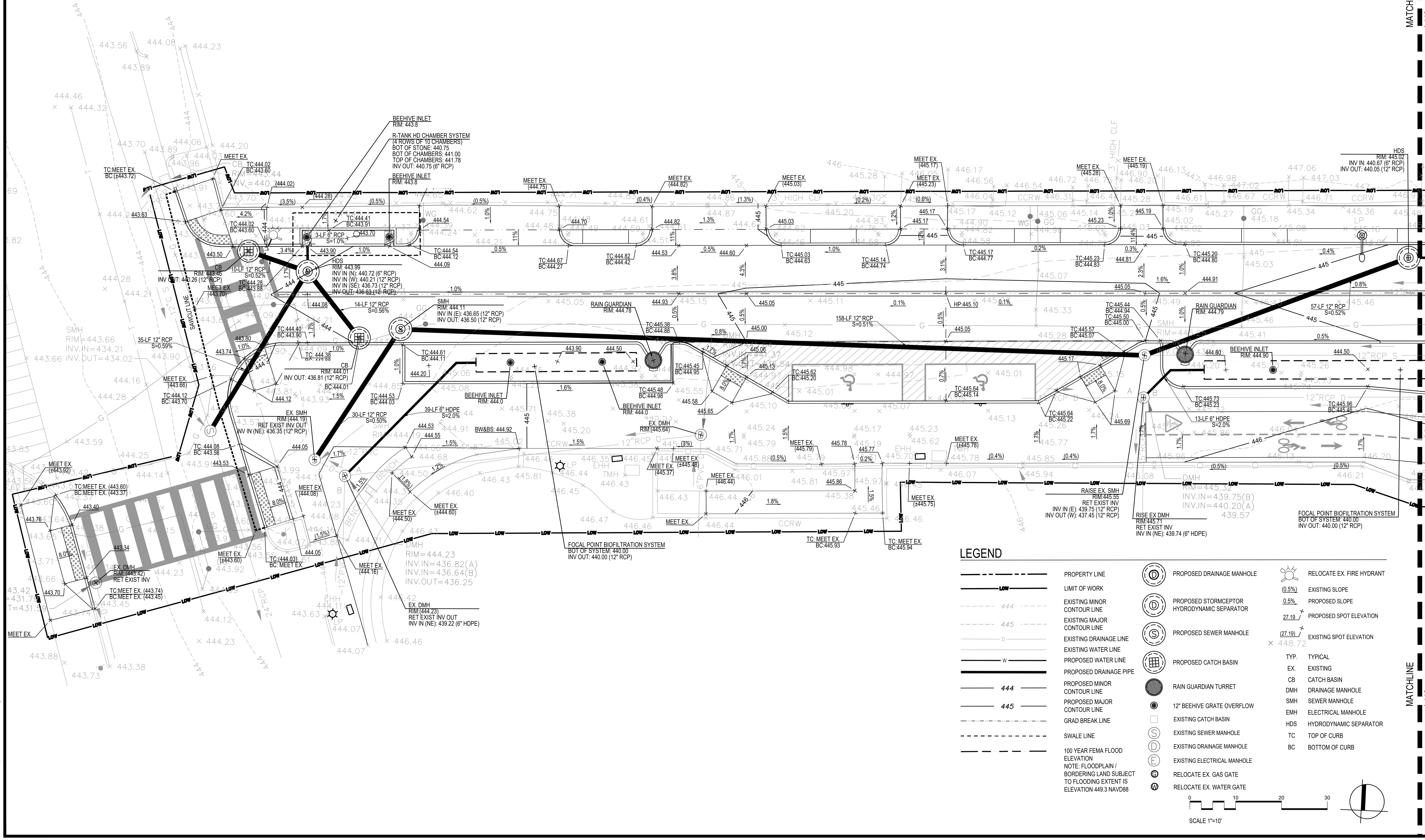

Project: GREEN ISLAND PHASE II

WORCESTER, MA 01610

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Drawing Title: GRADING AND DRAINAGE ENLARGEMENT PLAN

Sheet Number: L141

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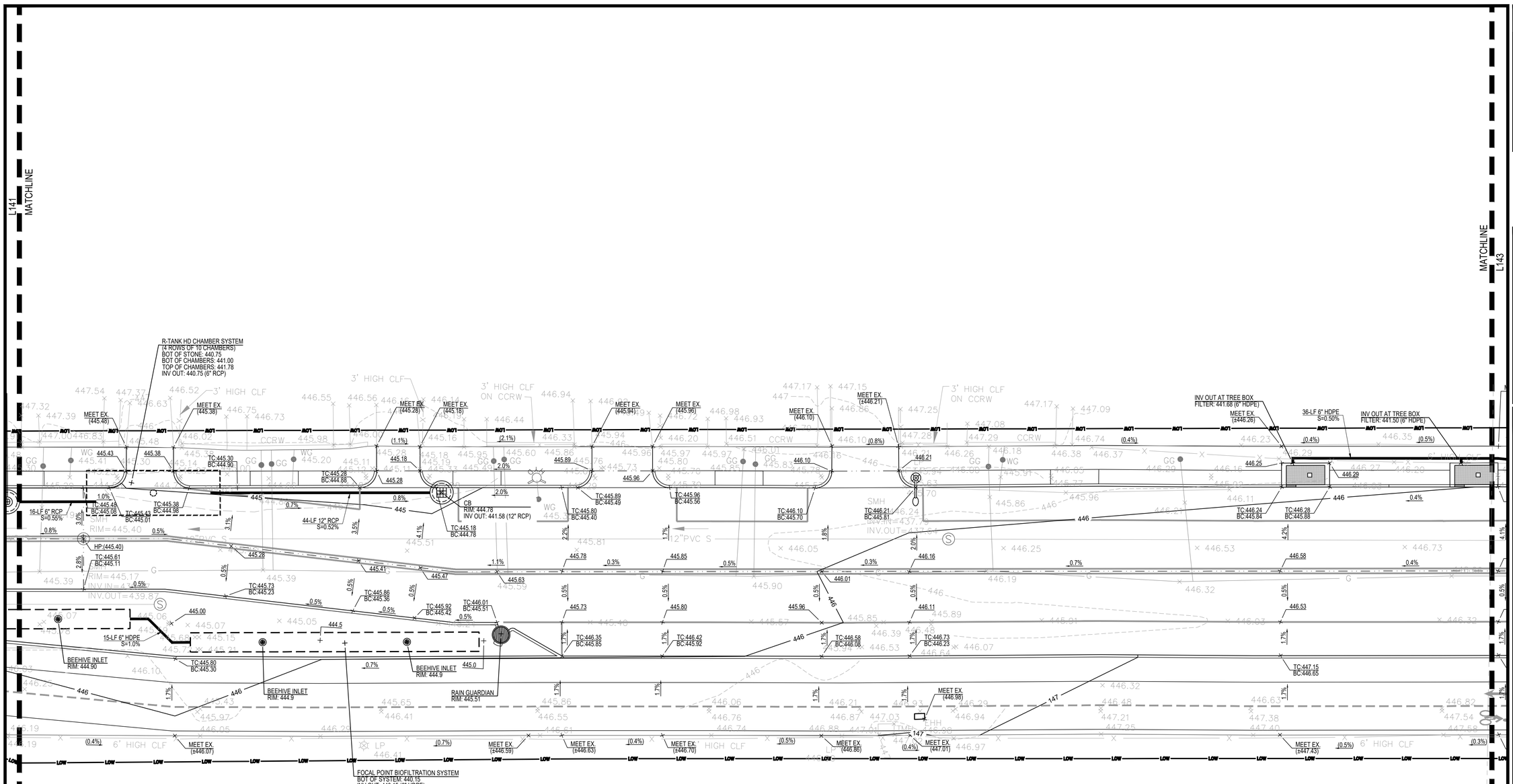

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- EXISTING MINOR CONTOUR LINE
- EXISTING MAJOR CONTOUR LINE
- EXISTING DRAINAGE LINE
- EXISTING WATER LINE
- PROPOSED WATER LINE
- PROPOSED DRAINAGE PIPE
- PROPOSED MINOR CONTOUR LINE
- PROPOSED MAJOR CONTOUR LINE
- GRAD BREAK LINE
- SWALE LINE
- 100 YEAR FEMA FLOOD ELEVATION
  NOTE: FLOODPLAIN / BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
- PROPOSED DRAINAGE MANHOLE
- PROPOSED STORMCEPTOR HYDRODYNAMIC SEPARATOR
- PROPOSED SEWER MANHOLE
- PROPOSED CATCH BASIN
- RAIN GUARDIAN TURRET
- 12" BEEHIVE GRATE OVERFLOW
- EXISTING CATCH BASIN
- EXISTING SEWER MANHOLE
- EXISTING DRAINAGE MANHOLE
- EXISTING ELECTRICAL MANHOLE
- RELOCATE EX. GAS GATE
- RELOCATE EX. WATER GATE
- RELOCATE EX. FIRE HYDRANT
- (0.5%) EXISTING SLOPE
- 0.5% PROPOSED SLOPE
- 27.19 PROPOSED SPOT ELEVATION
- (27.19) EXISTING SPOT ELEVATION
- × 448.72

TYP.	TYPICAL
EX.	EXISTING
CB	CATCH BASIN
DMH	DRAINAGE MANHOLE
SMH	SEWER MANHOLE
EMH	ELECTRICAL MANHOLE
HDS	HYDRODYNAMIC SEPARATOR
TC	TOP OF CURB
BC	BOTTOM OF CURB

0 10 20 30

SCALE 1"=10'

Project:
GREEN ISLAND PHASE II

WORCESTER, MA 01610

Weston & Sampson

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Drawing Title:
GRADING AND DRAINAGE ENLARGEMENT PLAN

Sheet Number:
L142

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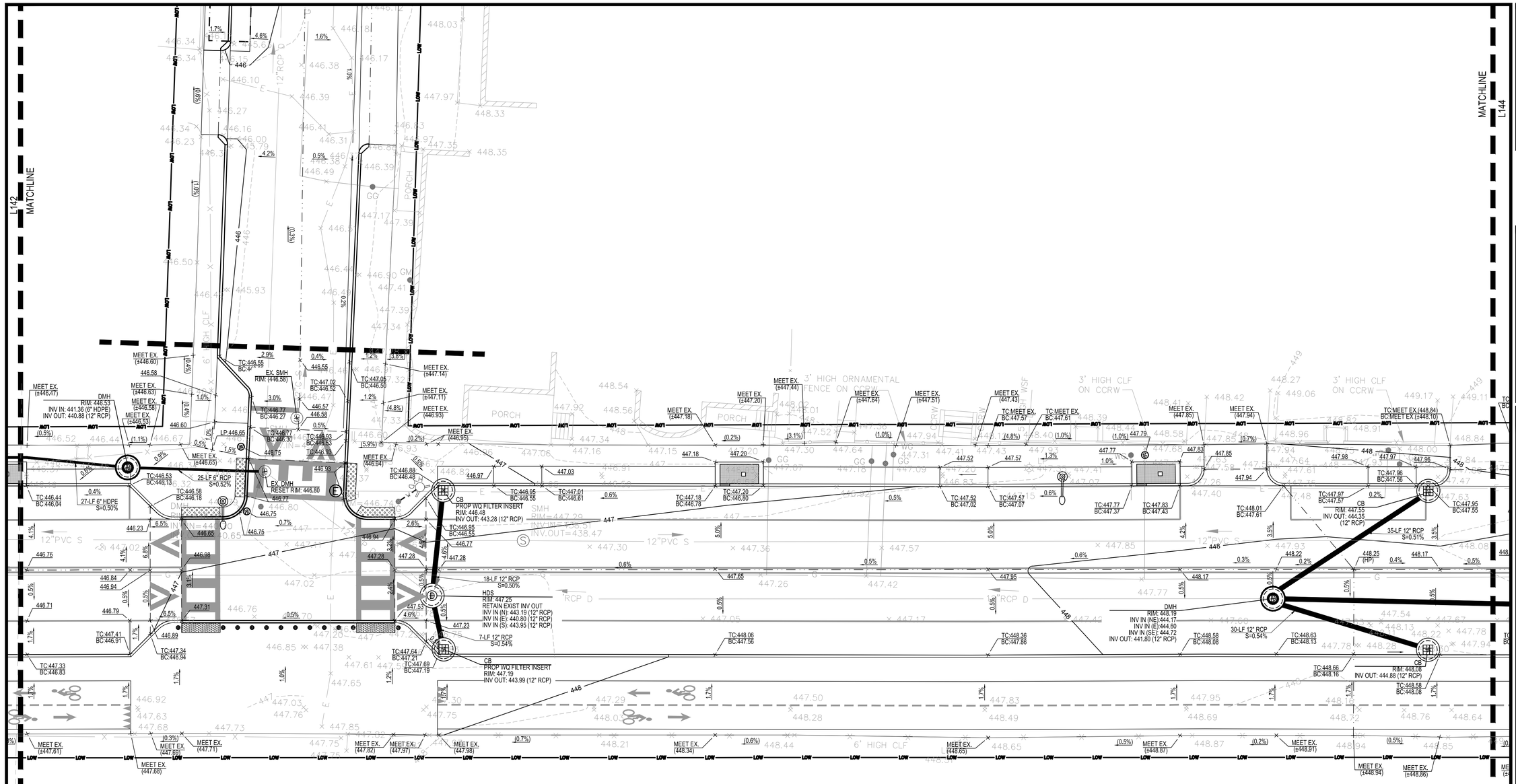

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- EXISTING MINOR CONTOUR LINE
- EXISTING MAJOR CONTOUR LINE
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- EXISTING WATER LINE
- PROPOSED WATER LINE
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- PROPOSED MINOR CONTOUR LINE
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- SWALE LINE
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- PROPOSED STORMCEPTOR HYDRODYNAMIC SEPARATOR
- PROPOSED SEWER MANHOLE
- PROPOSED CATCH BASIN
- RAIN GUARDIAN TURRET
- 12" BEEHIVE GRATE OVERFLOW
- EXISTING CATCH BASIN
- EXISTING SEWER MANHOLE
- EXISTING DRAINAGE MANHOLE
- EXISTING ELECTRICAL MANHOLE
- RELOCATE EX. GAS GATE
- RELOCATE EX. WATER GATE
- RELOCATE EX. FIRE HYDRANT
- (0.5%) EXISTING SLOPE
- 0.5% PROPOSED SLOPE
- 27.19 PROPOSED SPOT ELEVATION
- (27.19) EXISTING SPOT ELEVATION
- 448.72 EXISTING SPOT ELEVATION

TYP.	TYPICAL
EX.	EXISTING
CB	CATCH BASIN
DMH	DRAINAGE MANHOLE
SMH	SEWER MANHOLE
EMH	ELECTRICAL MANHOLE
HDS	HYDRODYNAMIC SEPARATOR
TC	TOP OF CURB
BC	BOTTOM OF CURB

0 10 20 30

SCALE 1"=10'

Project:
GREEN ISLAND PHASE II

WORCESTER, MA 01610

Weston & Sampson Engineers, Inc.
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GRADING AND DRAINAGE ENLARGEMENT PLAN

Sheet Number:
L143

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L143
MATCHLINE

APPROXIMATE
FLOODPLAIN EXTENT,
449.3 NAVD88

ENDICOTT

147-LF 12" RCP
S=0.52%

CB
RIM: 448.57
INV OUT: 445.37 (12" RCP)

CB
RIM: 449.42
RET EXIST INV OUT: 446.94

CB
RIM=449.71

DMH
RIM=

SAWCUT LINE

L143
MATCHLINE

LEGEND

PROPERTY LINE	PROPOSED DRAINAGE MANHOLE
LIMIT OF WORK	PROPOSED STORMCEPTOR HYDRODYNAMIC SEPARATOR
EXISTING MINOR CONTOUR LINE	PROPOSED SEWER MANHOLE
EXISTING MAJOR CONTOUR LINE	PROPOSED CATCH BASIN
EXISTING DRAINAGE LINE	RAIN GUARDIAN TURRET
EXISTING WATER LINE	12" BEEHIVE GRATE OVERFLOW
PROPOSED WATER LINE	EXISTING CATCH BASIN
PROPOSED DRAINAGE PIPE	EXISTING SEWER MANHOLE
PROPOSED MINOR CONTOUR LINE	EXISTING DRAINAGE MANHOLE
PROPOSED MAJOR CONTOUR LINE	EXISTING ELECTRICAL MANHOLE
GRAD BREAK LINE	RELOCATE EX. GAS GATE
SWALE LINE	RELOCATE EX. WATER GATE
100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN / BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88	RELOCATE EX. FIRE HYDRANT
	(0.5%) EXISTING SLOPE
	0.5% PROPOSED SLOPE
	27.19 PROPOSED SPOT ELEVATION
	(27.19) / × 448.72 EXISTING SPOT ELEVATION

TYP.	TYPICAL
EX.	EXISTING
CB	CATCH BASIN
DMH	DRAINAGE MANHOLE
SMH	SEWER MANHOLE
EMH	ELECTRICAL MANHOLE
HDS	HYDRODYNAMIC SEPARATOR
TC	TOP OF CURB
BC	BOTTOM OF CURB

0 10 20 30
SCALE 1"=10'

Project:
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WORCESTER, MA 01610

Weston & Sampson

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MASSACHUSETTS
Brandon Mackenzie
No. 40547
REGISTERED LANDSCAPE ARCHITECT

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W&S File No.:	

Drawing Title:
GRADING AND DRAINAGE ENLARGEMENT PLAN

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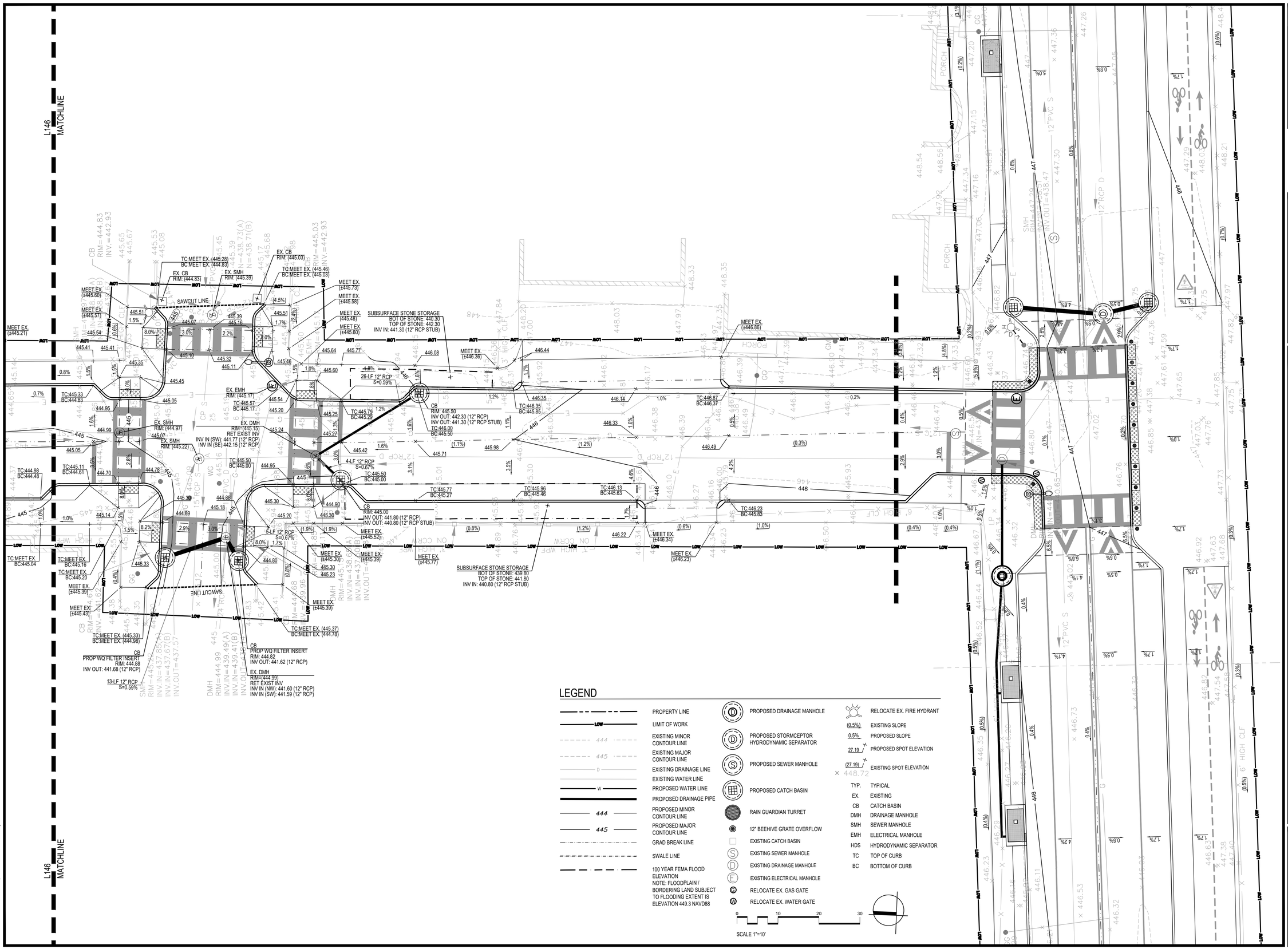

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- EXISTING MINOR CONTOUR LINE
- EXISTING MAJOR CONTOUR LINE
- EXISTING DRAINAGE LINE
- EXISTING WATER LINE
- PROPOSED WATER LINE
- PROPOSED DRAINAGE PIPE
- PROPOSED MINOR CONTOUR LINE
- PROPOSED MAJOR CONTOUR LINE
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  NOTE: FLOODPLAIN / BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88
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- PROPOSED SEWER MANHOLE
- PROPOSED CATCH BASIN
- RAIN GUARDIAN TURRET
- 12" BEEHIVE GRATE OVERFLOW
- EXISTING CATCH BASIN
- EXISTING SEWER MANHOLE
- EXISTING DRAINAGE MANHOLE
- EXISTING ELECTRICAL MANHOLE
- RELOCATE EX. GAS GATE
- RELOCATE EX. WATER GATE
- RELOCATE EX. FIRE HYDRANT
- (0.5%) EXISTING SLOPE
- 0.5% PROPOSED SLOPE
- 27.19 PROPOSED SPOT ELEVATION
- (27.19) × 448.72 EXISTING SPOT ELEVATION

TYP.	TYPICAL
EX.	EXISTING
CB	CATCH BASIN
DMH	DRAINAGE MANHOLE
SMH	SEWER MANHOLE
EMH	ELECTRICAL MANHOLE
HDS	HYDRODYNAMIC SEPARATOR
TC	TOP OF CURB
BC	BOTTOM OF CURB

0 10 20 30
SCALE 1"=10'

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Project:
GREEN ISLAND PHASE II
WORCESTER, MA 01610

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COMMONWEALTH OF MASSACHUSETTS
Shannon M. Kunkel
No. 40
REGISTERED LANDSCAPE ARCHITECT

Issued For:
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Scale: AS SHOWN

Date: 05/27/2025
Drawn By: TZ, KA
Reviewed By: MS
Approved By: BK
W&S Project No.: ENG_22-1008
W&S File No.:

Drawing Title:
GRADING AND DRAINAGE ENLARGEMENT PLAN

Sheet Number:
L145

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L147 MATCHLINE

MATCHLINE L145

CB RIM=443.49 INV=440.00

SMH RIM=443.57 INV.IN=437.76 INV.IN=437.72

DMH RIM=443.57 INV.IN=441.74(A) INV.IN=439.96(B) INV.IN=439.77(C) INV.IN=439.62

SMH RIM=444.33 INV.IN=437.87 INV.OUT=437.81

SMH RIM=443.47 INV=440.57

MEET EX. (±444.68)
MEET EX. (±444.65)
MEET EX. (±444.57)
TC:MEET EX. BC:443.94
MEET EX. (±444.54)
TC:MEET EX. BC:443.78
TC:MEET EX. BC:444.11
TC:MEET EX. BC:443.83
MEET EX. (±443.49)
TC:MEET EX. BC:443.76
MEET EX. (±444.41)
MEET EX. (±444.51)
MEET EX. (±444.88)
MEET EX. (±444.77)
MEET EX. (±444.84)
MEET EX. (±444.97)
MEET EX. (±445.17)
MEET EX. (±445.01)
MEET EX. (±445.18)
MEET EX. (±445.20)
MEET EX. (±445.21)
MEET EX. (±444.37)
MEET EX. (±444.08)

EX. SMH RIM: (443.57)
EX. DMH RIM: (443.49)
EX. DMH RIM: (443.57)
EX. DMH RIM: (443.47)
TC:(443.96) BC:(443.49)
SAWCUT LINE
TC:(443.89) BC:(443.47)

TC:444.59 BC:444.09
CB PROP WQ FILTER INSERT RIM: 443.35 INV OUT: 440.16 (12" RCP)
18-LF 12" RCP S=0.57%
13-LF 12" RCP S=0.55%
TC:444.45 BC:443.95
TC:443.85 BC:443.35
TC:444.76 BC:444.26
TC:444.15 BC:443.65
TC:444.54 BC:444.04
TC:444.34 BC:443.84
EX. SMH RIM: (443.76)
EX. SMH RIM: (443.72)
TC:444.08 BC:443.58
TC:443.91 BC:443.51
TC:443.94 BC:443.52
TC:(443.65) BC:(443.47)
MEET EX. (±443.98)
CB RIM: 443.65 INV OUT: 440.45 (12" RCP) INV OUT: 439.45 (12" RCP STUB)
DMH RIM: 444.08 RET EXIST INV INV IN (SW): 440.38 (12" RCP): INV IN (SE): 440.06 (12" RCP)
SUBSURFACE STONE STORAGE BOT OF STONE: 438.45 TOP OF STONE: 440.45 INV IN: 439.45 (12" RCP STUB)

TC:444.20 BC:443.70
CB PROP WQ FILTER INSERT RIM: 443.64 INV OUT: 440.44 (12" RCP)
TC:444.14 BC:443.64
TC:444.12 BC:443.68
14-LF 12" RCP S=0.56%
4-LF 12" RCP S=0.50%
26-LF 12" RCP S=0.50%
TC:444.30 BC:443.80
TC:444.40 BC:443.90
TC:444.44 BC:443.94
TC:444.98 BC:443.48
EX. DMH RIM: (443.88)
TC:444.41 BC:443.91
TC:444.45 BC:443.85
EX. DMH RIM: (443.70)
RET EXIST INV IN E:(440.36 (12" RCP) INV IN (W): 440.23 (12" RCP)
CB RIM: 443.45 INV OUT: 440.25 (12" RCP) INV OUT: 439.25 (12" RCP)-TO STONE
SUBSURFACE STONE STORAGE BOT OF STONE: 438.12 TOP OF STONE: 440.12 INV IN: 439.12 (12" RCP)
TC:444.58 BC:444.08
TC:444.68 BC:444.18
EX. EMH RIM: (444.33)
TC:444.73 BC:444.23
TC:444.91 BC:444.41
EX. EMH RIM: (444.46)
TC:444.96 BC:444.46
TC:445.00 BC:444.50
TC:445.10 BC:444.60
TC:445.18 BC:444.68
TC:444.50 BC:444.00
TC:444.57 BC:444.07
TC:444.59 BC:444.09
TC:444.66 BC:444.16
TC:444.70 BC:444.20
TC:444.95 BC:444.45
TC:444.75 BC:444.25
TC:444.98 BC:444.48
TC:MEET EX. BC:444.84
TC:MEET EX. BC:445.01
TC:MEET EX. BC:445.04

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- EXISTING MINOR CONTOUR LINE
- EXISTING MAJOR CONTOUR LINE
- EXISTING DRAINAGE LINE
- EXISTING WATER LINE
- PROPOSED WATER LINE
- PROPOSED DRAINAGE PIPE
- PROPOSED MINOR CONTOUR LINE
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- GRAD BREAK LINE
- SWALE LINE
- 100 YEAR FEMA FLOOD ELEVATION NOTE: FLOODPLAIN / BORDERING LAND SUBJECT TO FLOODING EXTENT IS ELEVATION 449.3 NAVD88

- PROPOSED DRAINAGE MANHOLE
- PROPOSED STORMCEPTOR HYDRODYNAMIC SEPARATOR
- PROPOSED SEWER MANHOLE
- PROPOSED CATCH BASIN
- RAIN GUARDIAN TURRET
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- EXISTING ELECTRICAL MANHOLE
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- EXISTING SLOPE
- PROPOSED SLOPE
- PROPOSED SPOT ELEVATION
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TYP.	TYPICAL
EX.	EXISTING
CB	CATCH BASIN
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EMH	ELECTRICAL MANHOLE
HDS	HYDRODYNAMIC SEPARATOR
TC	TOP OF CURB
BC	BOTTOM OF CURB

0 10 20 30
SCALE 1"=10'

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Project:
GREEN ISLAND PHASE II
WORCESTER, MA 01610

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GRADING AND DRAINAGE ENLARGEMENT PLAN

Sheet Number:
L146

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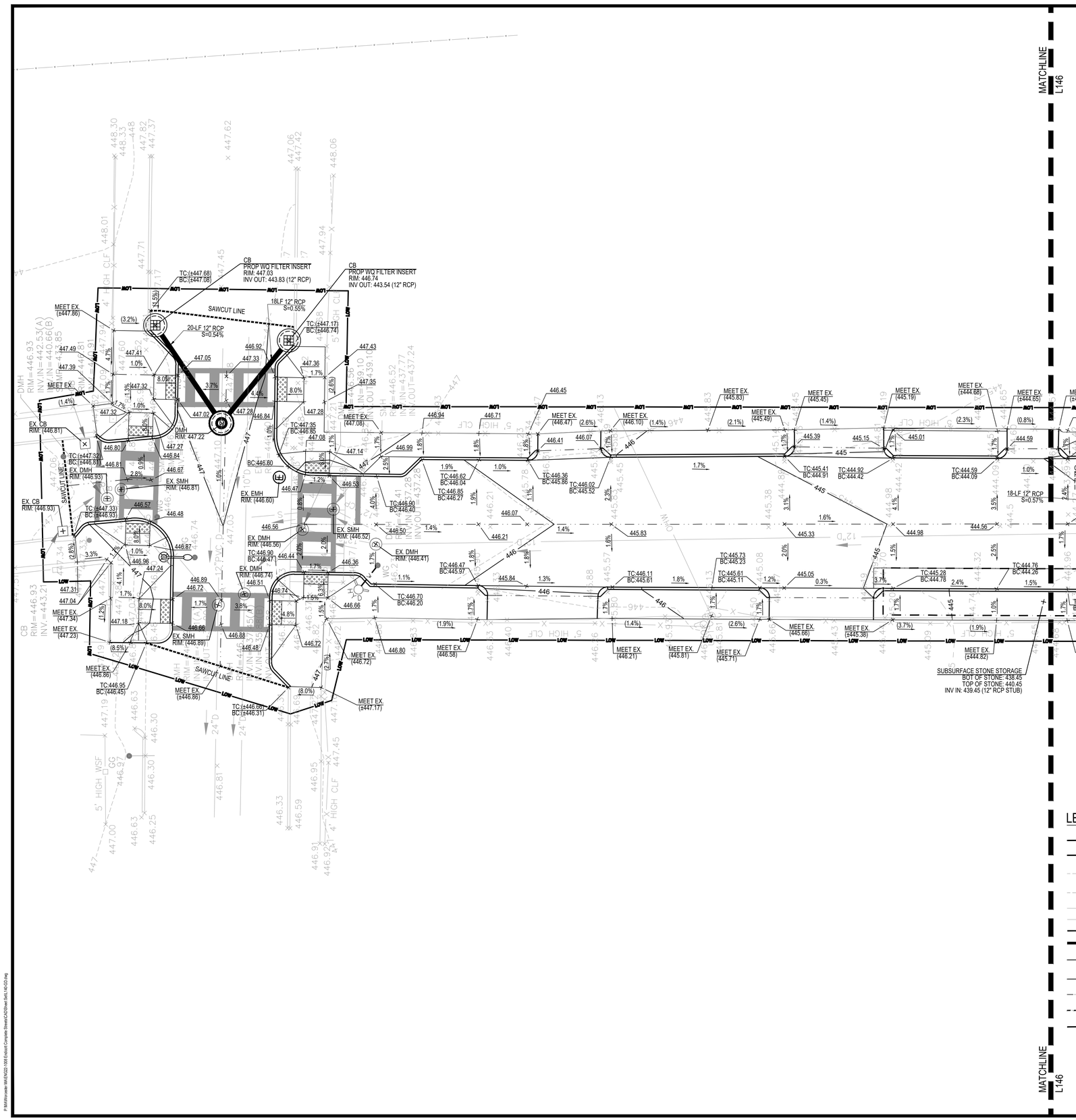

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- EXISTING WATER LINE
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- 0.5% PROPOSED SLOPE
- 27.19 PROPOSED SPOT ELEVATION
- (27.19) EXISTING SPOT ELEVATION
- × 448.72 EXISTING SPOT ELEVATION

TYP.	TYPICAL
EX.	EXISTING
CB	CATCH BASIN
DMH	DRAINAGE MANHOLE
SMH	SEWER MANHOLE
EMH	ELECTRICAL MANHOLE
HDS	HYDRODYNAMIC SEPARATOR
TC	TOP OF CURB
BC	BOTTOM OF CURB

SCALE 1"=10'

Project:
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WORCESTER, MA 01610

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Brandon M. Kinder
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GRADING AND DRAINAGE ENLARGEMENT PLAN

Sheet Number:
L147

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LEGEND

PROPERTY LINE

LIMIT OF WORK

ENGINEERED WOOD FIBER

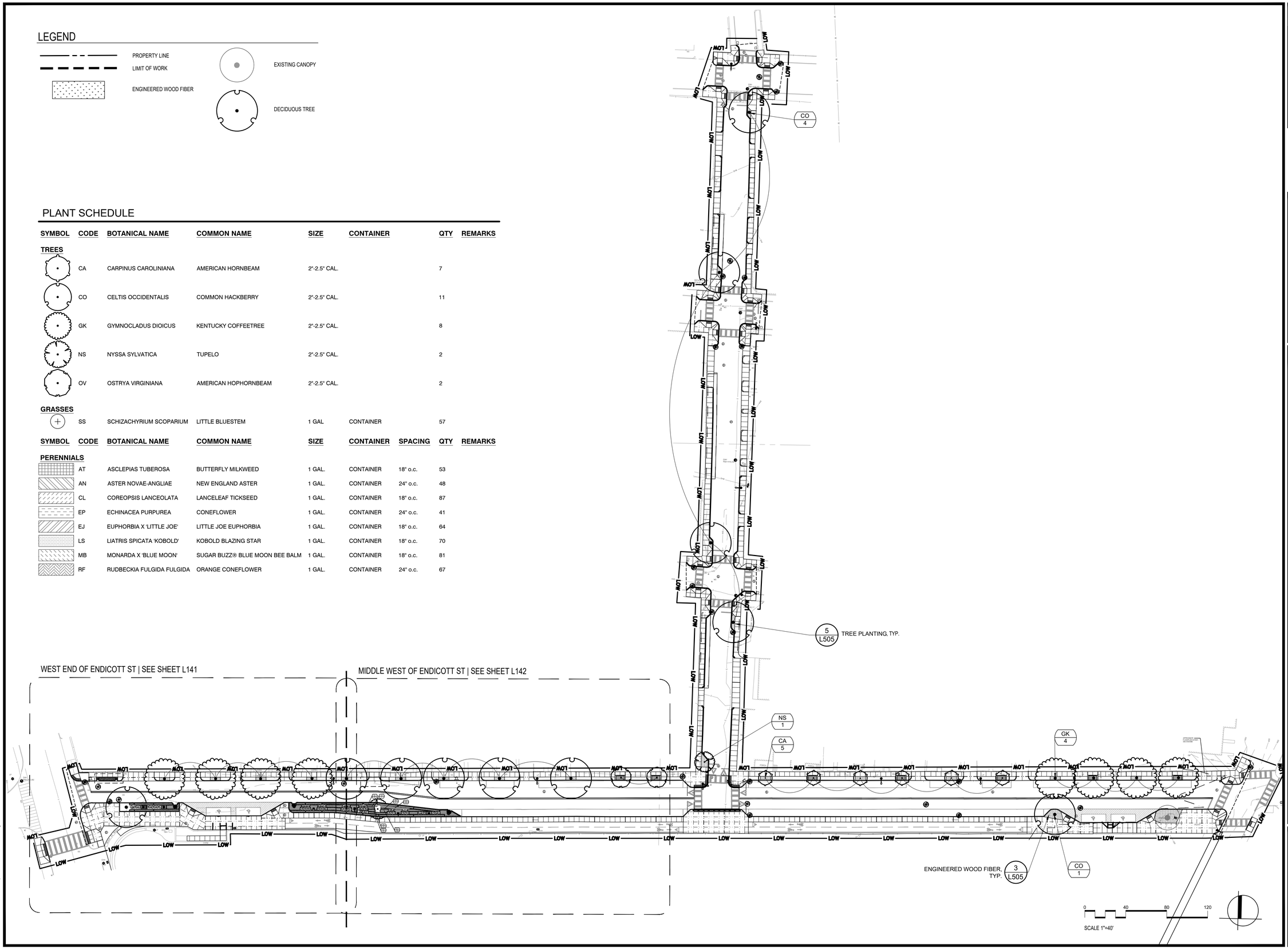
EXISTING CANOPY

DECIDUOUS TREE

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
TREES							
	CA	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	2"-2.5" CAL.		7	
	CO	CELTIS OCCIDENTALIS	COMMON HACKBERRY	2"-2.5" CAL.		11	
	GK	GYMNOCLADUS DIOICUS	KENTUCKY COFFEETREE	2"-2.5" CAL.		8	
	NS	NYSSA SYLVATICA	TUPELO	2"-2.5" CAL.		2	
	OV	OSTRYA VIRGINIANA	AMERICAN HOPHORNBEAM	2"-2.5" CAL.		2	
GRASSES							
	SS	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	1 GAL	CONTAINER	57	

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	QTY	REMARKS
PERENNIALS								
	AT	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	1 GAL.	CONTAINER	18" o.c.	53	
	AN	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1 GAL.	CONTAINER	24" o.c.	48	
	CL	COREOPSIS LANCEOLATA	LANCELEAF TICKSEED	1 GAL.	CONTAINER	18" o.c.	87	
	EP	ECHINACEA PURPUREA	CONEFLOWER	1 GAL.	CONTAINER	24" o.c.	41	
	EJ	EUPHORBIA X 'LITTLE JOE'	LITTLE JOE EUPHORBIA	1 GAL.	CONTAINER	18" o.c.	64	
	LS	LIATRIS SPICATA 'KOBOLD'	KOBOLD BLAZING STAR	1 GAL.	CONTAINER	18" o.c.	70	
	MB	MONARDA X 'BLUE MOON'	SUGAR BUZZ® BLUE MOON BEE BALM	1 GAL.	CONTAINER	18" o.c.	81	
	RF	RUDBECKIA FULGIDA FULGIDA	ORANGE CONEFLOWER	1 GAL.	CONTAINER	24" o.c.	67	



Project:
GREEN ISLAND PHASE II
WORCESTER, MA 01610

Weston & Sampson Engineers, Inc.
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COMMONWEALTH OF MASSACHUSETTS
Shannon M. Kunkel
No. 40429
REGISTERED LANDSCAPE ARCHITECT

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Drawing Title:
OVERALL PLANTING PLAN

Sheet Number:
L150

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TREE PLANTING, TYP. 5 / L505

GROUNDCOVER PLANTING, TYP. 6 / L505

SHRUB PLANTING, TYP. 4 / L505

MATCHLINE L132

MATCHLINE L132

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- LOAM AND SEED
- EXISTING CANOPY
- DECIDUOUS TREE
- SHRUBS

SCALE 1"=10'

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Drawing Title:
PLANTING ENLARGEMENT PLAN

Sheet Number:
L151

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L131
MATCHLINE

TREE PLANTING, TYP. 5 L505

CO 5

OV 2

AT 14 | CL 10 | LS 7 | MB 17 | AN 3 | LS 19 | CL 13 | LS 15 | RF 12 | SS 3 | AN 17

EP 11 | AT 13 | SS 7 | CL 13 | SS 10 | NS 1 | AN 4 | EJ 8 | MB 16 | SS 5 | EJ 12 | SS 5 | CL 13 | SS 3 | LS 11 | RF 15 | EP 9 | EP 4 | MB 16

6 L505 GROUNDCOVER PLANTING, TYP.

4 L505 SHRUB PLANTING, TYP.

LOW

CCRW

GG

WG

LP

TMH

EHH

GRASS

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- LOAM AND SEED
- EXISTING CANOPY
- DECIDUOUS TREE
- SHRUBS

0 10 20 30

SCALE 1"=10'

L131
MATCHLINE

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Brandon Mikkelsen
No. 49411
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PLANTING ENLARGEMENT PLAN

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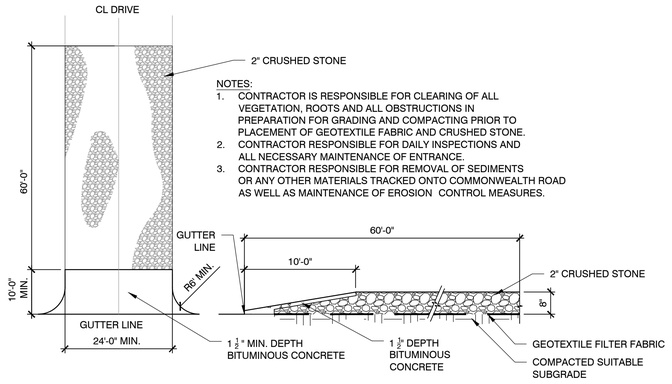
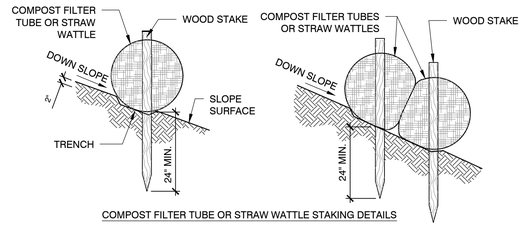


NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR CLEARING OF ALL VEGETATION, ROOTS AND ALL OBSTRUCTIONS IN PREPARATION FOR GRADING AND COMPACTING PRIOR TO PLACEMENT OF GEOTEXTILE FABRIC AND CRUSHED STONE.
2. CONTRACTOR RESPONSIBLE FOR DAILY INSPECTIONS AND ALL NECESSARY MAINTENANCE OF ENTRANCE.
3. CONTRACTOR RESPONSIBLE FOR REMOVAL OF SEDIMENTS OR ANY OTHER MATERIALS TRACKED ONTO COMMONWEALTH ROAD AS WELL AS MAINTENANCE OF EROSION CONTROL MEASURES.

1 CONSTRUCTION ENTRANCE

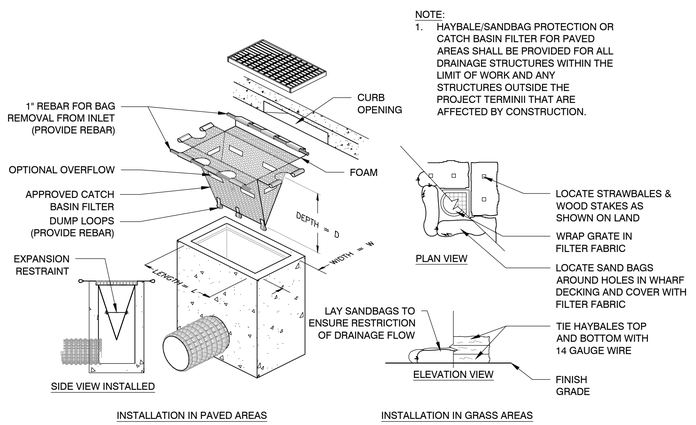
NOT TO SCALE



COMPOST FILTER TUBE OR STRAW WATTLE STAKING DETAILS

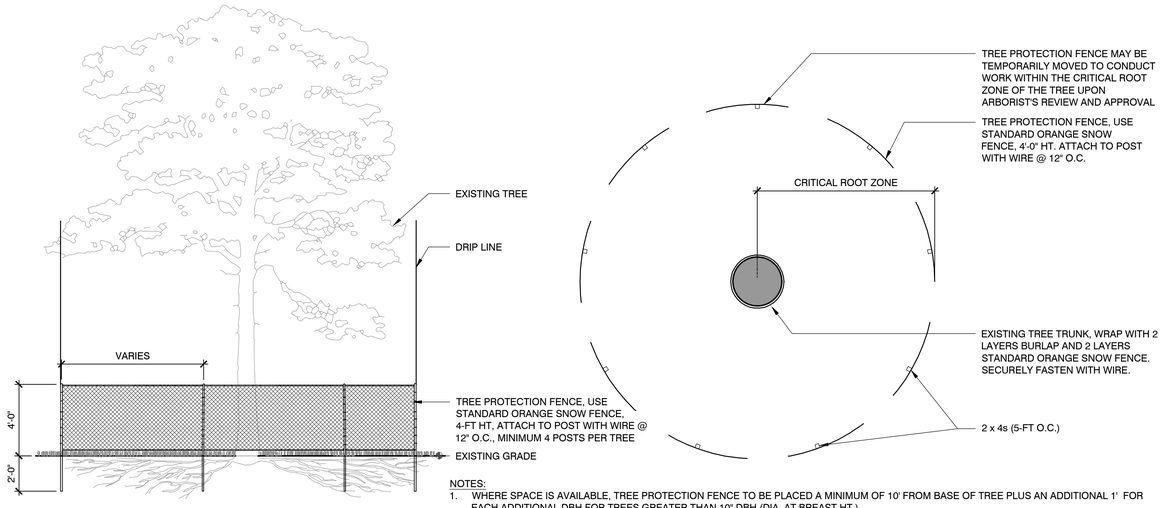
2 EROSION AND SEDIMENT CONTROL

NOT TO SCALE



3 INLET SEDIMENT CONTROL

NOT TO SCALE



CRITICAL ROOT ZONE TO BE PROTECTED. ALL WORK NECESSARY WITHIN THE CRITICAL ROOT ZONE SHALL BE PERFORMED BY HAND.

NOTES:
1. WHERE SPACE IS AVAILABLE, TREE PROTECTION FENCE TO BE PLACED A MINIMUM OF 10' FROM BASE OF TREE PLUS AN ADDITIONAL 1" FOR EACH ADDITIONAL DBH FOR TREES GREATER THAN 10" DBH (DIA. AT BREAST HT.)
2. ALL WORK DONE WITHIN TREE PROTECTION FENCE IS TO BE DONE BY HAND AND LIGHT EQUIPMENT.
3. ROOTS EXPOSED DURING EXCAVATION SHALL BE NEATLY CUT AND COVERED WITH SOIL IMMEDIATELY.
4. FOR TREES THAT OCCUR IN GROUPS PROVIDE TREE PROTECTION FENCE AROUND ENTIRE AREA. SEE PLAN FOR LOCATIONS.
5. MAINTAIN FENCE PROTECTION IN SOUND CONDITION UNTIL FENCE COMPLETION
6. A CERTIFIED ARBORIST SHALL DELINEATE LIMIT OF TREE PROTECTION FENCE AS THEY RELATE TO THE LIMITS OF THE CRITICAL ROOT ZONE.

4 TREE PROTECTION, TYP.

NOT TO SCALE

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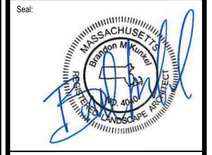

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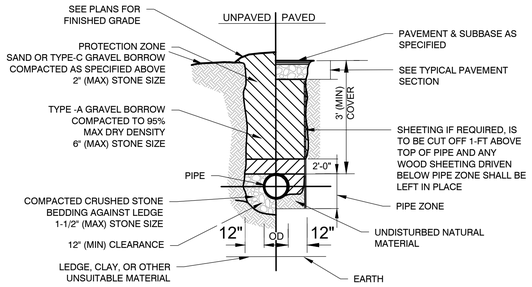
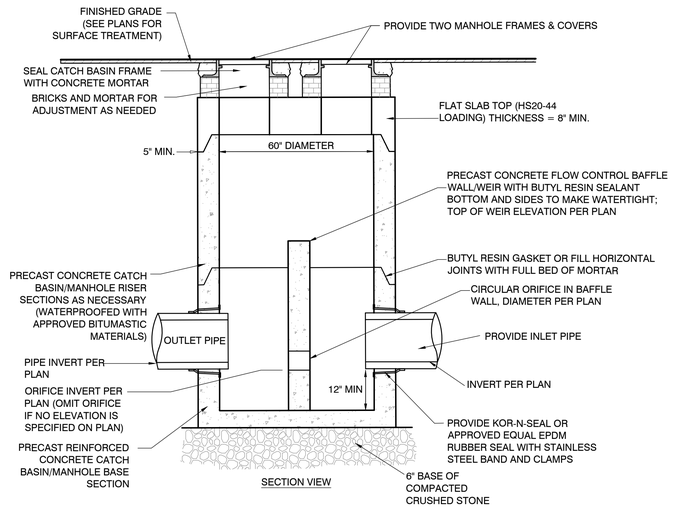


NOTES:

1. GRAVEL BORROW SHALL CONFORM TO MASSDOT SPECIFICATION M1.030
2. CRUSHED STONE BEDDING SHALL CONFORM TO MASSDOT SPECIFICATION M2.01.1

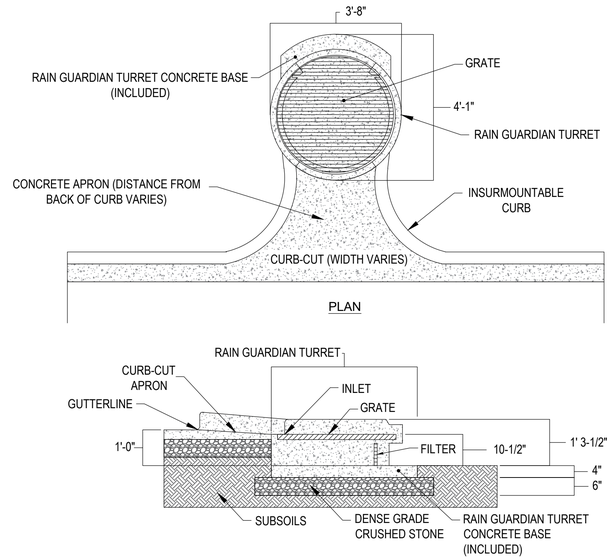
1 DRAIN TRENCH

NOT TO SCALE



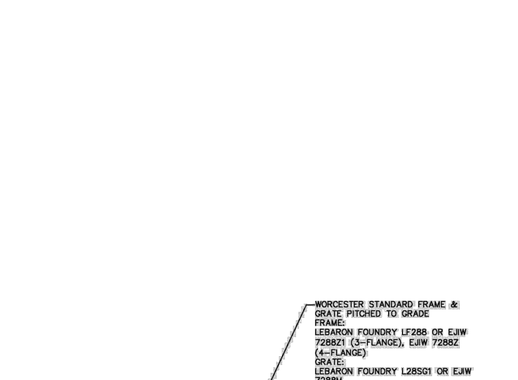
2 OUTLET CONTROL STRUCTURE (OCS)

NOT TO SCALE



3 RAIN GUARDIAN TURRET

NOT TO SCALE



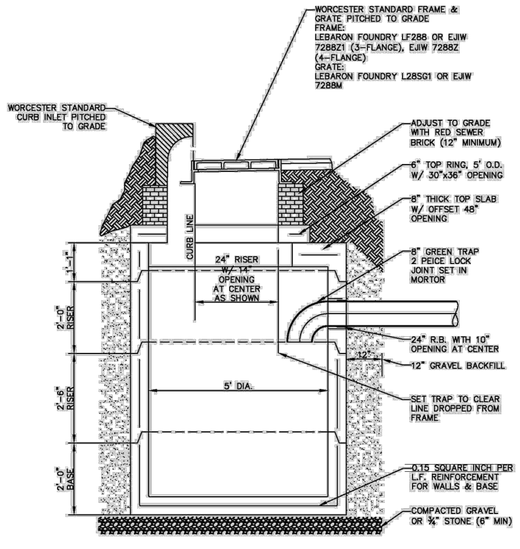
NOTES:

1) THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.

2) THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL PORT.

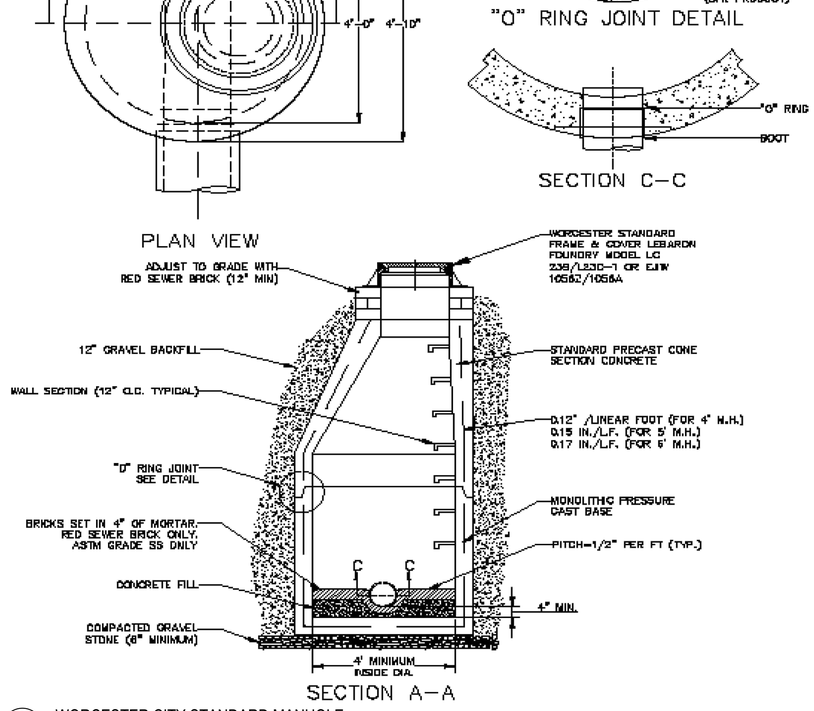
4 STORMCEPTOR HYDRODYNAMIC SEPARATOR

NOT TO SCALE



5 WORCESTER CITY STANDARD PRECAST CATCH BASIN

NOT TO SCALE



6 WORCESTER CITY STANDARD MANHOLE

NOT TO SCALE

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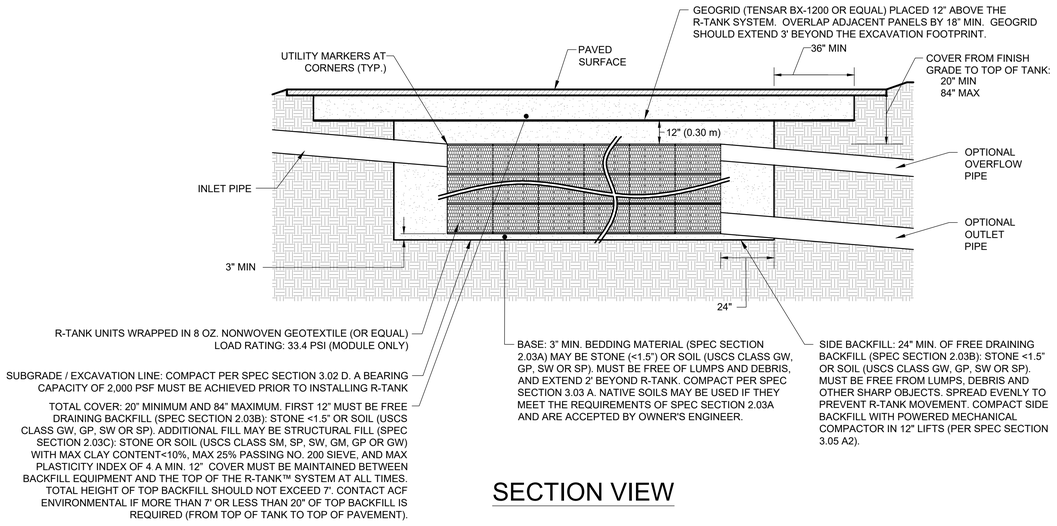
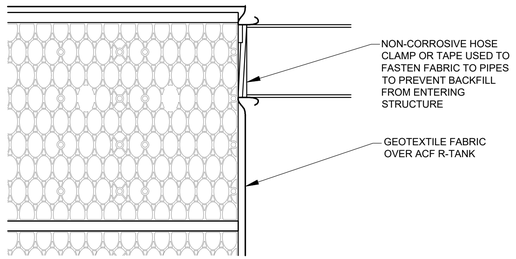
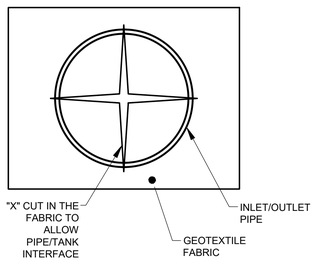


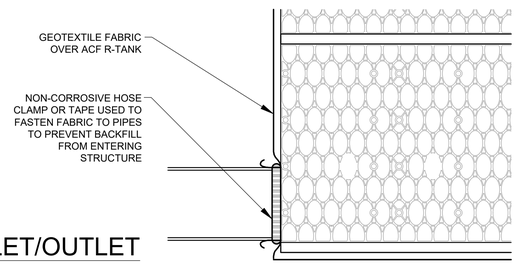
SECTION VIEW

NOTES:
1. FOR COMPLETE MODULE DATA, SEE APPROPRIATE R-TANK MODULE SHEET .
2. INSTALLATIONS PER THIS DETAIL MEET GUIDELINES OF HL-93 LOADING PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, CUSTOMARY U.S. UNITS, 7TH EDITION, 2014 WITH 2015 AND 2016 INTERIM REVISIONS.
3. PRE-TREATMENT STRUCTURES NOT SHOWN.
4. FOR INFILTRATION APPLICATIONS, GEOTEXTILE ENVELOPING R-TANK SHALL BE ACF M200 (PER SPEC SECTION 2.02A) AND BASE SHALL BE 4" MIN. UNCOMPACTED FREE DRAINING BACKFILL (SPEC SECTION 2.03A) TO PROVIDE A LEVEL BASE. SURFACE MUST BE SMOOTH, FREE OF LUMPS OR DEBRIS, AND EXTEND 2' BEYOND R-TANK FOOTPRINT.

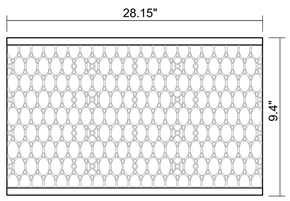


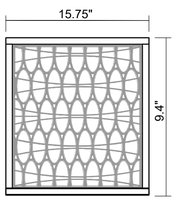
END VIEW OF PIPE/FABRIC CONNECTION. CUT AN "X" IN THE FABRIC SLIGHTLY LARGER THAN PIPE. PULL THE FABRIC AROUND THE PIPE TO CREATE THE "BOOT" AND THEN SECURE WITH A HOSE-CLAMP.

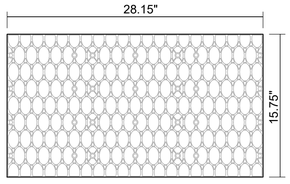


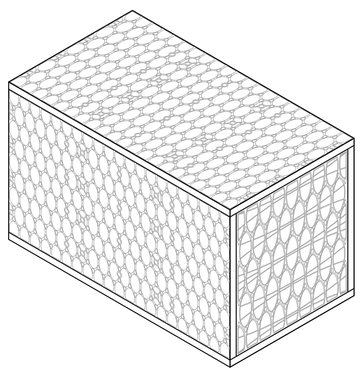


TYPICAL INLET/OUTLET







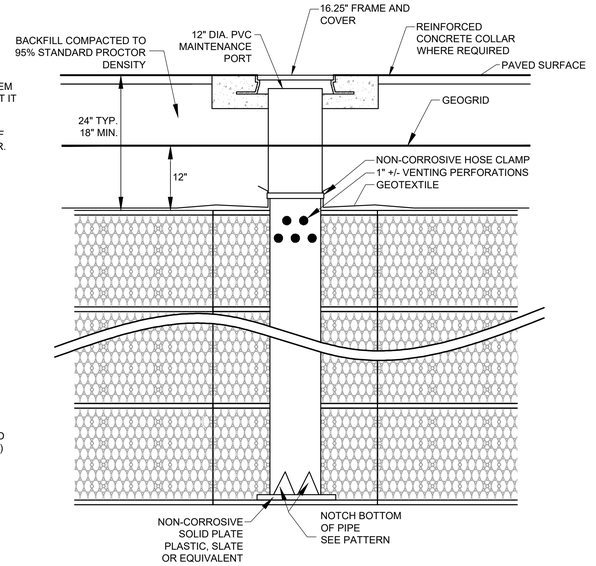


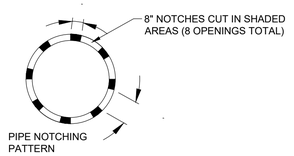
TANK MODULE

NOTES
- THIS PORT IS USED TO PUMP WATER INTO THE SYSTEM AND RE-SUSPEND ACCUMULATED SEDIMENT SO THAT IT MAY BE PUMPED OUT.
- MINIMUM REQUIRED MAINTENANCE INCLUDES A QUARTERLY INSPECTION DURING THE FIRST YEAR OF OPERATION AND A YEARLY INSPECTION THEREAFTER. FLUSH AS NEEDED.
- ONLY R-TANK HD AND R-TANK SD MAY BE USED IN TRAFFIC APPLICATIONS.

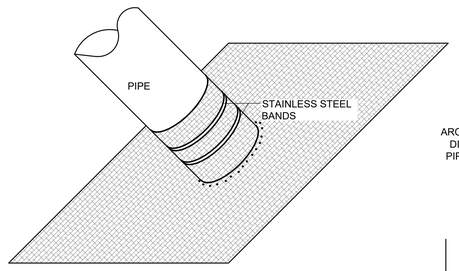
DEPTH SUMMARY

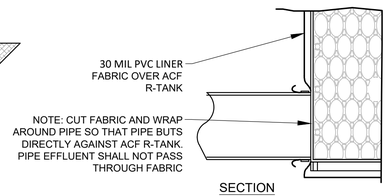
TYPE	A	B
R-TANK	12" MIN - 36" MAX	AS SHOWN ON PLANS
R-TANK^{HD}	20" MIN - 6.99' MAX	12"
R-TANK^{SD}	18" MIN - 9.99' MAX	12"



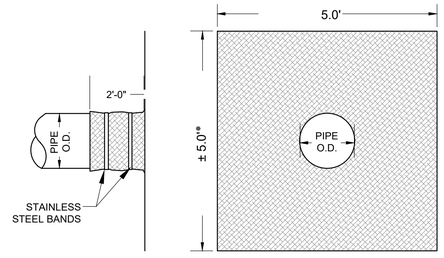


MAINTENANCE PORT





SECTION



SIDE VIEW FRONT VIEW

- 30 MIL GEOTEXTILE LINER FABRIC COLLAR TO FIT OUTSIDE DIAMETER OF INLET/OUTLET PIPE
- * TRIM AS NEEDED

GEOTEXTILE PIPE BOOT

1 ACF R-TANK HD SYSTEM, TYP.
NOT TO SCALE

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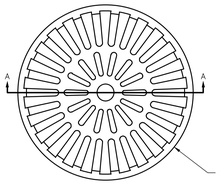
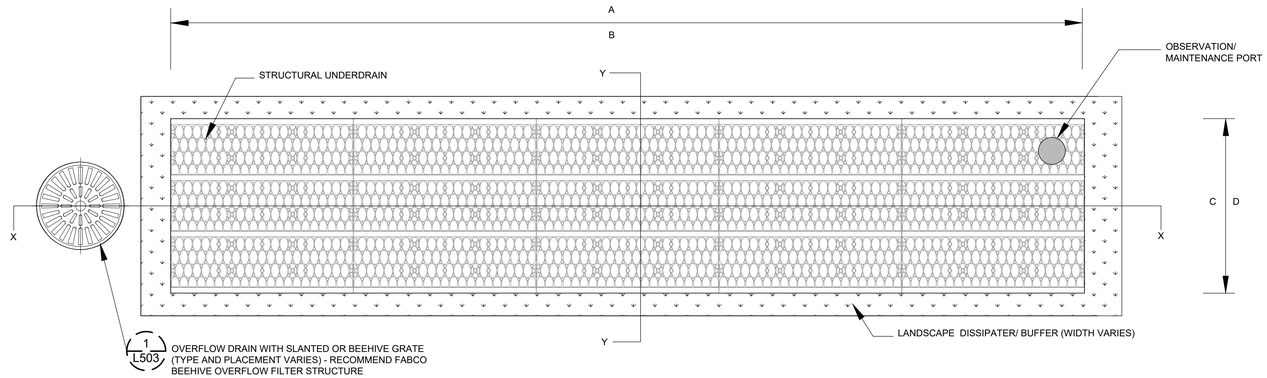


SECTION A-A

NOTE:
1. GRATES ARE TO BE LOCATED AS SHOWN ON PLANS.

1 BEEHIVE DRAIN GRATE, TYP.

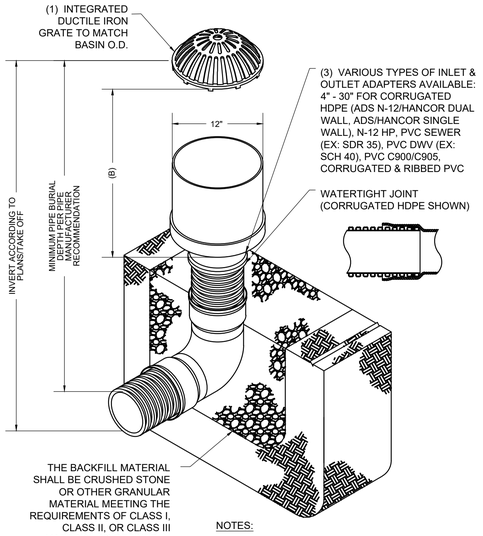
NOT TO SCALE



PLAN VIEW

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1299CGP	7001-110-202
STANDARD	MEETS H-20	1299CGS	7001-110-203
SOLID COVER	MEETS H-20	1299CGC	7001-110-204
PEDESTRIAN BRONZE	N/A	1299CGPB	7001-110-205
DOME	N/A	1299CGD	7001-110-206
DROP IN GRATE	LIGHT DUTY	1201DI	7001-110-021

ADAPTER SIZE	B
4"	10.50
6"	11.50
8"	11.50
10"	11.25
12"	6.00

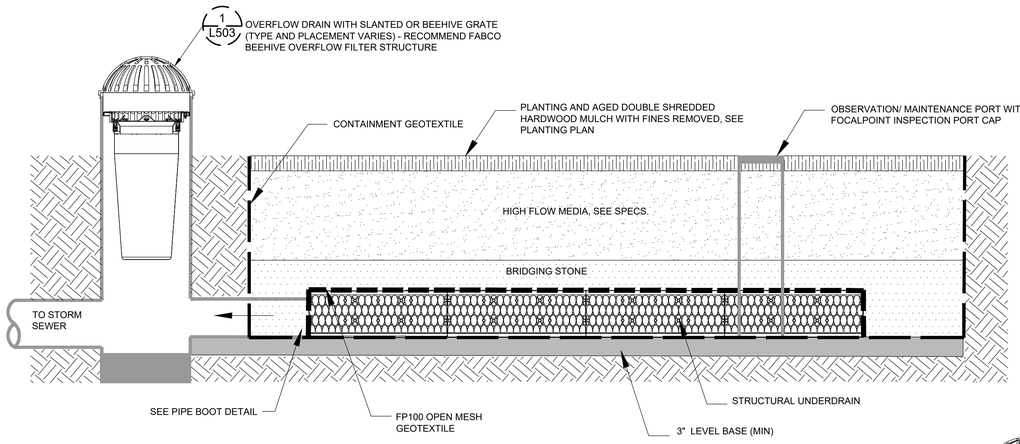


NOTES:

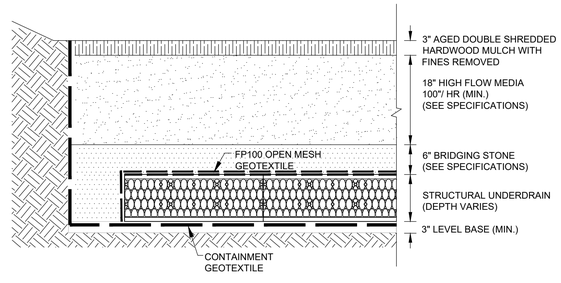
1. DOME GRATE SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
4. DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
5. DIMENSIONS ARE IN INCHES
6. DOME GRATES HAVE NO LOAD RATING

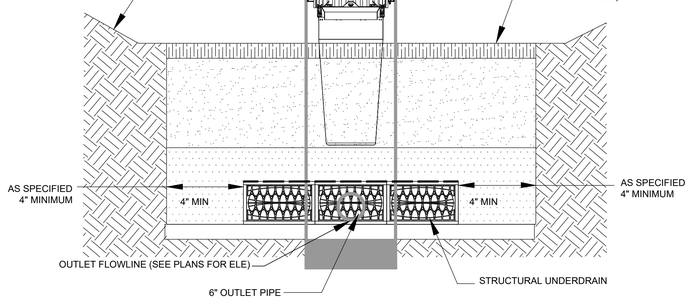
2 NYLOPLAST AREA DRAIN, TYP.

NOT TO SCALE



SECTION X-X





SECTION Y-Y

PIPE CONNECTION

3 FOCAL POINT BIOFILTRATION SYSTEM

NOT TO SCALE

Project:
GREEN ISLAND PHASE II

WORCESTER, MA 01610

Weston & Sampson Engineers, Inc.
85 Devonshire Street, 3rd Floor
Boston, MA 02109
978.532.1900 800.SAMPSON
www.westonandsampson.com

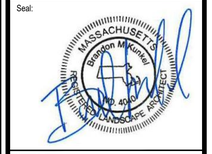
Consultants:

Revisions:

No.	Date	Description

COA:

Seal:



Issued For:

BID DOCUMENTS

Scale: AS SHOWN

Date:	05/27/2025
Drawn By:	TZ, KA
Reviewed By:	MS
Approved By:	BK
W&S Project No.:	ENG_22-1008
W&S File No.:	

Drawing Title:

CONSTRUCTION DETAILS

Sheet Number:

L503

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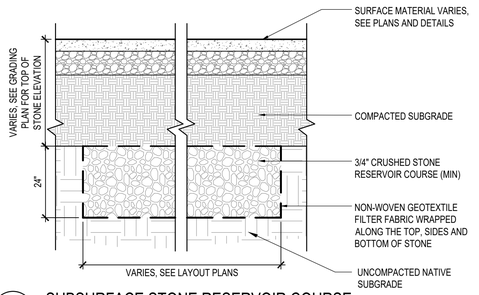
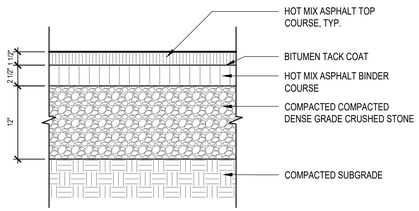


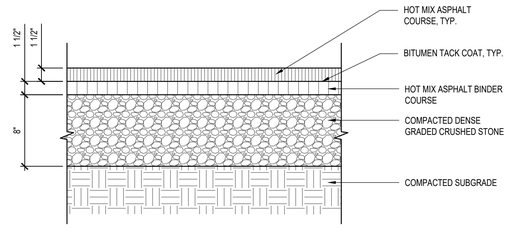
1 SUBSURFACE STONE RESERVOIR COURSE

NOT TO SCALE



2 HOT MIX ASPHALT PAVEMENT, FULL DEPTH - VEHICULAR

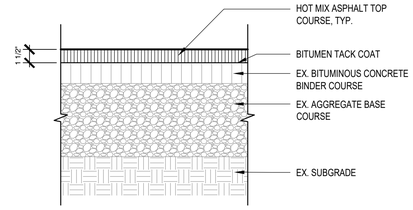
NOT TO SCALE



NOTES:
1. CONTRACTOR TO PROVIDE SMOOTH TRANSITION WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT

3 HOT MIX ASPHALT PAVEMENT, FULL DEPTH - PEDESTRIAN

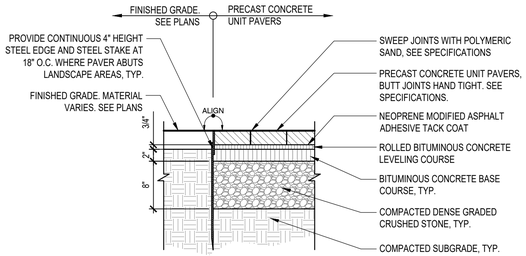
NOT TO SCALE



NOTE:
1. CONTRACTOR TO PROVIDE SMOOTH TRANSITION WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT, TYP.

4 HOT MIX ASPHALT PAVEMENT, MILL AND OVERLAY

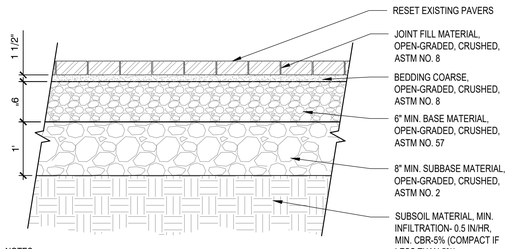
NOT TO SCALE



5 CONCRETE UNIT PAVERS ON HOT MIX ASPHALT BASE

NOT TO SCALE

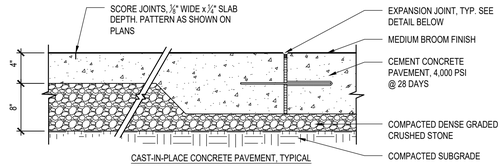
MA-WO-END-23



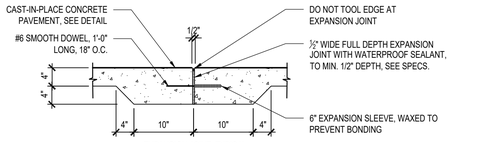
NOTES:
1. ALL AGGREGATE MATERIAL SHALL BE CRUSHED, ANGULAR STONE AND FREE OF FINES.
2. SURFACE LONGITUDINAL SLOPE SHALL BE A MINIMUM OF 1% AND MAXIMUM OF 5%.
3. MAINTAIN A MINIMUM DISTANCE OF 2' BETWEEN BOTTOM OF PERMEABLE BASE AND WATER TABLE.
4. THE MINIMUM AGGREGATE THICKNESS ARE AFTER COMPACTION.

6 RESET EXISTING PAVERS

NOT TO SCALE



CAST-IN-PLACE CONCRETE PAVEMENT, TYPICAL



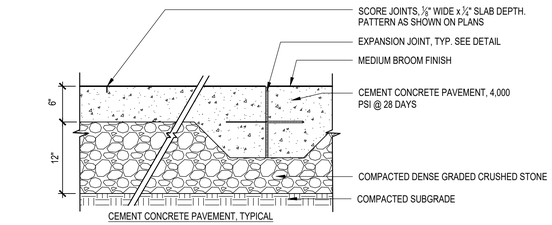
EXPANSION JOINT, TYPICAL

EXPANSION JOINT INSTALLATION NOTES:

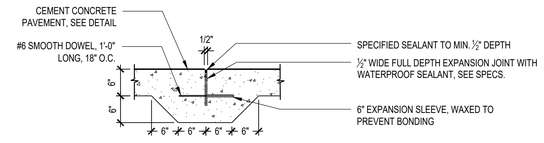
1. DOWEL IS TYPICAL AT ALL EXPANSION JOINTS (18" O.C.) WITHIN CONCRETE PAVING AND BETWEEN NEW CONCRETE PAVING AND EXISTING CONCRETE PAVING TO REMAIN.
2. DELETE EXPANSION SLEEVE AND DOWEL WHERE JOINT ABUTS WALL, CURBS, OR OTHER VERTICAL SURFACES, UNLESS OTHERWISE NOTED.
3. EXPANSION JOINTS MAX. 25'-0" O.C. UNLESS SHOWN OTHERWISE.
4. EXPANSIONS JOINTS SHALL BE PLACED WHERE NEW CEMENT CONCRETE PAVEMENT MEETS EXISTING PAVEMENT OR WALLS TO REMAIN.
5. ALL EXPANSION JOINTS SHALL BE SAW CUT.

9 CAST-IN-PLACE CONCRETE PAVEMENT AND EXPANSION JOINT

NOT TO SCALE



CEMENT CONCRETE PAVEMENT, TYPICAL



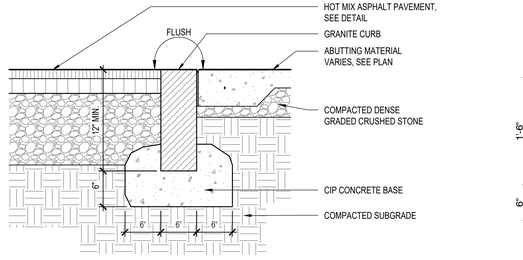
EXPANSION JOINT INSTALLATION NOTES:

1. DOWEL IS TYPICAL AT ALL EXPANSION JOINTS (18" O.C.) WITHIN CONCRETE PAVING AND BETWEEN NEW CONCRETE PAVING AND EXISTING CONCRETE PAVING TO REMAIN.
1. DELETE EXPANSION SLEEVE AND DOWEL WHERE JOINT ABUTS WALL, CURBS, OR OTHER VERTICAL SURFACES, UNLESS OTHERWISE NOTED.
2. EXPANSION JOINTS MAX. 25'-0" O.C. UNLESS SHOWN OTHERWISE.
3. EXPANSIONS JOINTS SHALL BE PLACED WHERE NEW CEMENT CONCRETE PAVEMENT MEETS EXISTING PAVEMENT OR WALLS TO REMAIN.

EXPANSION JOINT, TYPICAL

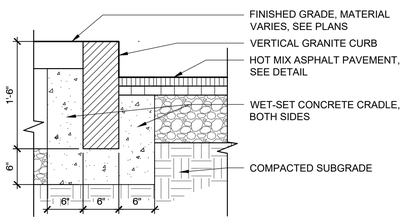
10 REINFORCED CAST-IN-PLACE CONCRETE PAVEMENT

NOT TO SCALE



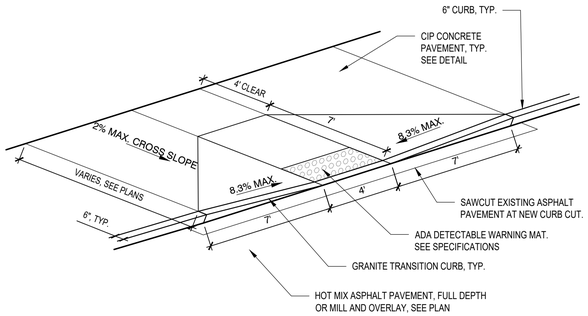
7 FLUSH GRANITE CURB

NOT TO SCALE



8 VERTICAL GRANITE CURB

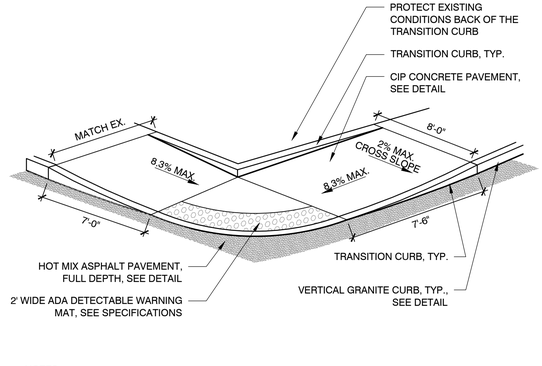
NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL PROVIDE CLEAN AND STRAIGHT SAWCUT LINES AT LIMIT OF REMOVAL OF EXISTING ASPHALT PAVEMENT TO REMAIN. CONTRACTOR SHALL VERIFY LIMITS OF EXISTING ASPHALT PAVEMENT REMOVAL PRIOR TO COMMENCING DEMOLITION.
2. CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION AT ADA CURB CUT.

11 ADA CURB CUT, TYPE A

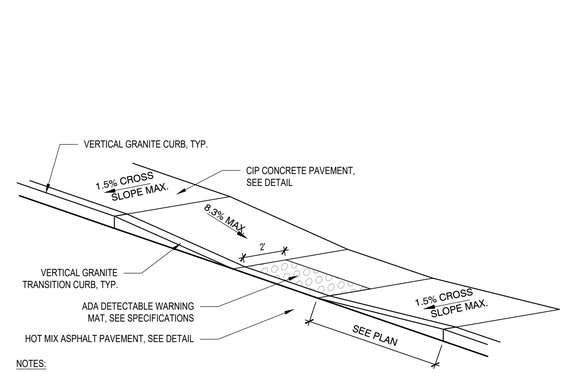
NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL PROVIDE CLEAN AND STRAIGHT SAWCUT LINES AT LIMIT OF REMOVAL OF EXISTING ASPHALT PAVEMENT TO REMAIN. CONTRACTOR SHALL VERIFY LIMITS OF EXISTING ASPHALT PAVEMENT REMOVAL PRIOR TO COMMENCING DEMOLITION.
2. CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION AT ADA CURB CUT.

12 ADA CURB CUT, TYPE B

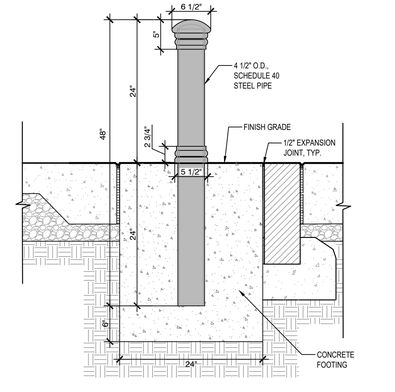
NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL PROVIDE CLEAN AND STRAIGHT SAWCUT LINES AT LIMIT OF REMOVAL OF EXISTING ASPHALT PAVEMENT TO REMAIN. CONTRACTOR SHALL VERIFY LIMITS OF EXISTING ASPHALT PAVEMENT REMOVAL PRIOR TO COMMENCING DEMOLITION.
2. CONTRACTOR SHALL REMOVE AND REPLACE BITUMINOUS CONCRETE PAVEMENT, DENSE GRADE CRUSHED STONE, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION WHERE IT ABUTS EXISTING CONDITIONS.

13 ADA CURB CUT, TYPE C

NOT TO SCALE



14 BOLLARD, TYP.

NOT TO SCALE

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Project:

GREEN ISLAND PHASE II

WORCESTER, MA 01610

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Consultants:

Revisions:

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COA:

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Scale: AS SHOWN

Date:	05/27/2025
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Reviewed By:	MS
Approved By:	BK
W&S Project No.:	ENG_22-1008
W&S File No.:	

Drawing Title:

CONSTRUCTION DETAILS

Sheet Number:

L504

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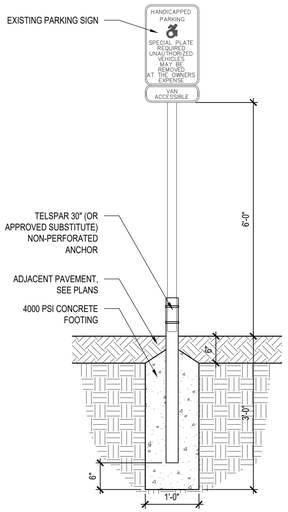
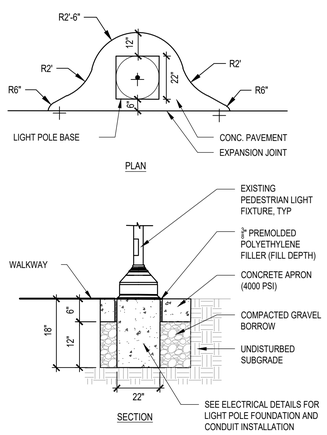


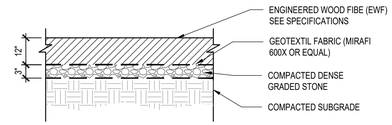
1 RELOCATE EXISTING HC PARKING SIGN

NOT TO SCALE



2 RELOCATE EXISTING PEDESTRIAN LIGHT POST

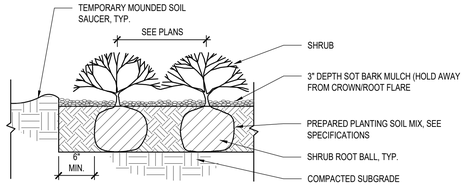
NOT TO SCALE



NOTE:
1. CONTRACTOR TO PROVIDE SMOOTH TRANSITION WHERE NEW MULCH ABUTS EXISTING PAVEMENT, TYP.

3 ENGINEERED WOOD FIBER, TYP.

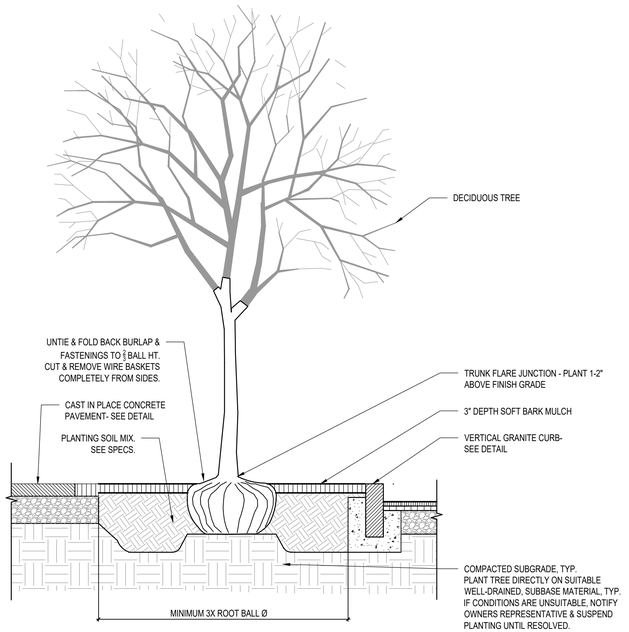
NOT TO SCALE



NOTES:
1. ALL MULCH MUST BE DARK IN COLOR. PROVIDE SAMPLE PRIOR TO INSTALLATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.

4 SHRUB PLANTING

NOT TO SCALE

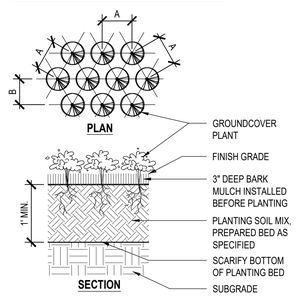


5 TREE PLANTING

NOT TO SCALE

GROUNDCOVER SPACING TABLE

PLANT SPACING "A"	ROW SPACING "B"	PLANTS	AREA UNIT
6" O.C.	5.2"	4.61	1 SQ. FT.
8" O.C.	6.93"	2.6	1 SQ. FT.
10" O.C.	8.66"	1.66	1 SQ. FT.
12" O.C.	10.4"	1.15	1 SQ. FT.



NOTES:
1. ALL GROUNDCOVER TO BE PLANTED IN TRIANGULAR PATTERN. SEE DETAIL PLAN AND GROUNDCOVER SPACING TABLE.
2. JUTE EROSION CONTROL MAT TO BE USED ON ALL SLOPES GREATER THAN 3:1

6 GROUNDCOVER PLANTING, TYP.

NOT TO SCALE

CONTRACTOR GENERAL NOTES:

USE OF THIS INFORMATION IS WITH THE PERMISSION OF STORMTREE® WITH THE UNDERSTANDING THAT NO CHANGES OR ALTERNATIONS ARE TO BE MADE TO THE DESIGN, FABRICATION, OR UTILITY OF THIS STORMTREE™ TREE FILTER SYSTEM WITHOUT THE EXPRESSED PERMISSION OF STORMTREE®; 401-626-8999; WWW.STORM-TREE.COM.

1) STORMTREE® TO PROVIDE AND DELIVER TO THE SITE STORMTREE® SYSTEM COMPONENTS TO INCLUDE ALL OF THE FOLLOWING (UNLESS PREVIOUSLY DISCUSSED), PRECAST TREE FRAME, FIBERGLASS SUPPORT GRATE, ENGINEERED MEDIA, SOIL SEPARATOR FABRIC, AND ALL RELATED HARDWARE NECESSARY FOR INSTALLATION.

2) CONTRACTOR TO PROVIDE ALL PIPE AND FITTINGS INTERIOR/EXTERIOR OF STORMTREE® SYSTEM TO BE CONNECTED TO EXISTING CATCH BASIN AND/OR OTHER RECEIVING FACILITY. NON-GASKETED FITTINGS ARE ACCEPTABLE.

3) CONTRACTOR TO PROVIDE 0.25"-O.75" WASHED STONE.

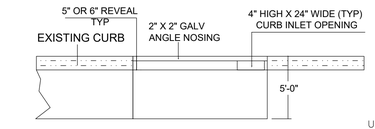
4) CONTRACTOR TO PROVIDE ANY IMPERMEABLE LINERS AS REQUIRED.

5) DEPTH OF ALL FILTER MEDIA BED SHALL BE A MINIMUM OF 24" DEEP AND NO MORE THAN A MAXIMUM OF 36" DEEP. AREAL DIMENSIONS OF FILTER MEDIA BED TO BE AS SPECIFIED.

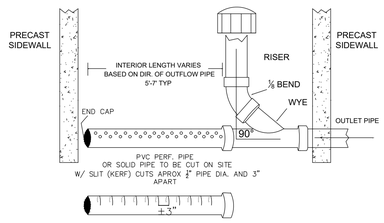
6) THE INTEGRATION OF ADJOINING FEATURES AND LAND SURFACES CONTIGUOUS TO THE STORMTREE™ SYSTEMS (E.G., LANDSCAPING, SIDEWALKS, CURBING, PAVEMENT, PAVERS, ETC.) ARE TO BE DISCUSSED IN ADVANCE WITH STORMTREE®, THE ENGINEER AND ALL SITE SPECIFIC CONTRACTORS.

7) **IMPORTANT:** STORMTREE® UNITS MUST BE "OFFLINE" OR PROTECTED FROM CONSTRUCTION DEBRIS, EROSION, EXCESSIVE SEDIMENT ENTRY, ETC. UNTIL SUCH TIME THAT THE SITE IS SECURED AND PAVED. ALL STANDARD EROSION CONTROL MEASURES MUST BE PUT IN PLACE (E.G., SEDIMENTATION FENCING, HAY BALES, ETC. STORMTREE® STRONGLY RECOMMENDS PLACING A BARRIER SUCH AS METAL PLATES OR WOOD PLANKING/BOARDS ACROSS BOTH THE THROAT OPENING, AND THE TOP HORIZONTAL SURFACE OF THE UNIT.

8) SOME SLIGHT VARIATION IN PRECAST CONCRETE STRUCTURE DIMENSIONS (±0.50") MAY OCCUR DUE TO VARYING FORMING AND CASTING PRACTICES.



FRONT VIEW
SUMP INLET VIEW ONLY



DETAIL "A"
PIPE AND FITTINGS DETAIL/SCHEDULE FOR 6" OR 8" UNDERDRAIN PROVIDED BY THE CONTRACTOR (NTS)

CONTRACTOR INSTALLATION NOTES:

THE FOLLOWING NOTES ARE SUBJECT TO CHANGE BASED ON VARIATIONS IN SITE CONDITIONS OR SPECIFIC INSTALLATION REQUIREMENTS.

1) EXCAVATION TO BE APROX. 12' X 7' (LXW) TO A MINIMUM DEPTH OF X 5 FEET.

2) PROVIDE BASE OF BETWEEN 6" TO 12" OF WASHED STONE (DEPENDING UPON FINAL GRADE, INVERTS, ETC). GREATER DEPTHS OF STONE MAY BE ACCEPTABLE PROVIDED THAT NEARBY BUILDINGS WOULD NOT BE IMPACTED BY POSSIBLE SUBSURFACE WATER INTRUSION.

3) PRECAST UNIT TO BE SET, POSITIONED, AND ORIENTATED AS REQUIRED.

4) INTERIOR PIPE AND FITTINGS TO BE CONSTRUCTED AND POSITIONED PER DETAIL.

5) INLET AND OUTLET CONNECTIONS SHALL BE ALIGNED AND GROUTED/SEALED TO MEET THE APPROVED DRAWINGS WITH MODIFICATIONS NECESSARY TO MEET SITE CONDITIONS AND LOCAL REGULATIONS.

6) A MINIMUM 3" LAYER OF WASHED STONE SHALL BE PLACED AND OVERLAY THE PERFORATED UNDERDRAIN PIPE. GREATER DEPTHS OF STONE LAYER MAY BE UTILIZED DEPENDING ON ELEV. OF UNDERDRAIN PIPE AND/OR DISCHARGE PIPE.

7) SOIL SEPARATOR FABRIC TO BE CUT AND PLACED OVER THE TOP OF THE STONE LAYER (BOTH INTERIOR/EXTERIOR OF PRECAST UNIT). FABRIC TO COVER THE ENTIRE STONE SURFACE, OVERLAPPING AS NECESSARY.

8) ENGINEERED MEDIA TO BE BE BACKFILLED WITHIN THE INTERIOR OF THE UNIT AND EXTERIOR OF THE UNIT TO THE EXCAVATED SIDEWALLS. MEDIA TO BE INSTALLED IN APROX. 6" LIFTS IN ALL AREAS TO AN ELEVATION OF APROX. 16" BELOW THE TOP OF THE UNIT OR PER DETAIL.

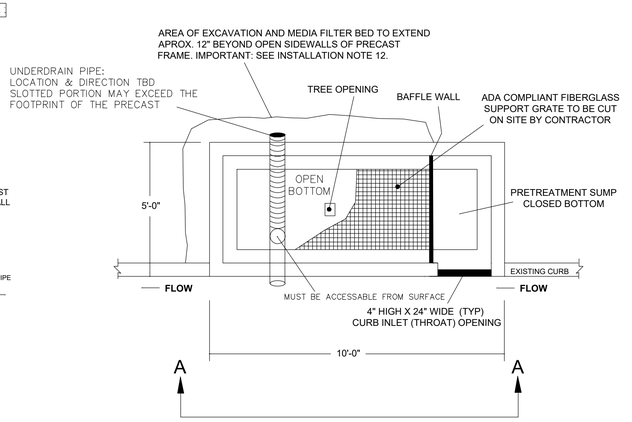
9) THE MEDIA LAYER WITHIN THE INTERIOR OF THE UNIT SHALL BE LIGHTLY COMPRESSED OR "WALKED". THE FINAL MEDIA DEPTH WITHIN THE INTERIOR OF THE SYSTEM SHOULD BE AT AN ELEVATION OF APROXIMATELY 4" BELOW THE TOP OF THE WEIR WALL. THE MEDIA EXTERIOR OF THE UNIT MUST BE COMPRESSED, PREFERABLY VIA VIBRATORY EQUIPMENT.

10) BACKFILL WITH EXISTING SOIL OR OTHER COMPACTIBOLE BASE TO FINISHED GRADE.

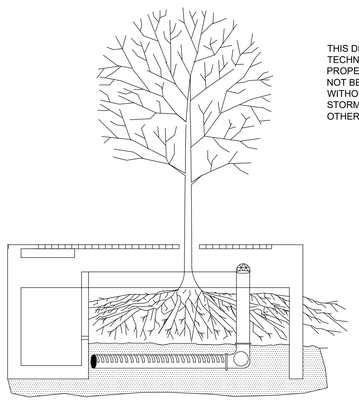
11) **IMPORTANT:** IF MEDIA IS TO BE INSTALLED AT A LATER DATE FOLLOWING THE INSTALLATION AND FINAL GRADE SET OF THE PRECAST STRUCTURE, PLYWOOD SHEETING OR OTHER BARRIER MUST BE PLACED AROUND THE SIDEWALLS OF THE STRUCTURE TO PREVENT NATIVE SOIL AND/OR DEBRIS FROM ENTERING THE STRUCTURE. THE 12" AREA AROUND THE STRUCTURE MUST NOT BE BACKFILLLED WITH NATIVE SOIL OR OTHER MATERIAL. PLEASE CONTACT STORMTREE FOR ADDITIONAL INFORMATION AND INSTRUCTION.

12) FIBERGLASS GRATING TO BE CUT AT TIME OF SYSTEM INSTALLATION OR FOLLOWING TREE INSTALLATION. STORMTREE® TO PROVIDE GRATE CUTTING INSTRUCTIONS.

13) REFER TO LANDSCAPE NOTES FOR TREE INSTALLATION, MULCH PLACEMENT AND MULCH HOLD DOWN MATTING PLACEMENT (IF REQUIRED).



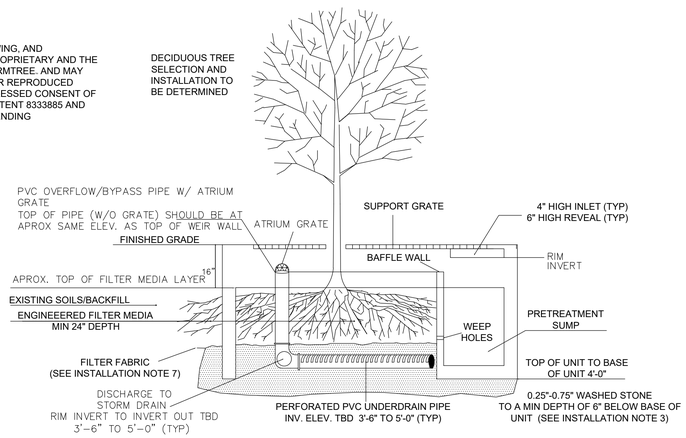
RIGHT SIDE ENTRY
PLAN VIEW
NOT TO SCALE



LEFT SIDE ENTRY
SECTION A-A
NOT TO SCALE

THIS DESIGN, DRAWING, AND TECHNOLOGY IS PROPRIETARY AND THE PROPERTY OF STORMTREE. AND MAY NOT BE ALTERED OR REPRODUCED WITHOUT THE EXPRESSED CONSENT OF STORMTREE. US PATENT 8333885 AND OTHER PATENTS PENDING

DECIDUOUS TREE SELECTION AND INSTALLATION TO BE DETERMINED



*ALL PIPE/FITTINGS AND STONE TO BE PROVIDED BY THE INSTALLATION CONTRACTOR (SEE CONTRATOR GENERAL NOTE #2)

RIGHT SIDE ENTRY
SECTION A-A
NOT TO SCALE

7 TREE BOX FILTER

NOT TO SCALE

Project:
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Drawing Title:
CONSTRUCTION DETAILS

Sheet Number:
L505

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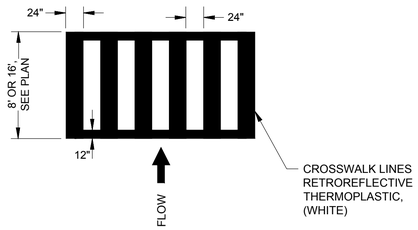
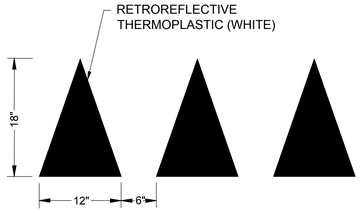
GENERAL NOTES

1. THE MINIMUM MOUNTING HEIGHT OF POST-MOUNTED SIGNS, MEASURED VERTICALLY FROM THE BOTTOM OF THE LOWEST SIGN TO THE TOP OF THE CURB OR SIDEWALK, OR TO THE ELEVATION OF THE NEAR EDGE OF THE TRAVELED WAY, SHALL BE 7 FEET UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2. CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS WHICH CONFLICT WITH PROPOSED PAVEMENT MARKINGS. THE METHOD OF REMOVAL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF MASSDOT HIGHWAY DIVISION.
3. ALL SIGN POSTS SHALL BE 2' QWIK PUNCH SIGN POSTS WITH A 2¼" SQUARE GALVANIZED ANCHOR AND RAIN CAP - POWDER COATED BLACK, OR APPROVED EQUAL.
4. ALL SYMBOLS SHALL BE PRE-FORM RETROREFLECTIVE THERMOPLASTIC MATERIAL.
5. ALL MARKINGS AND SYMBOLS SHALL CONFORM WITH MUTCD STANDARDS.



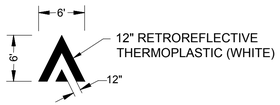
CROSSWALK MARKINGS (CW)

NOT TO SCALE



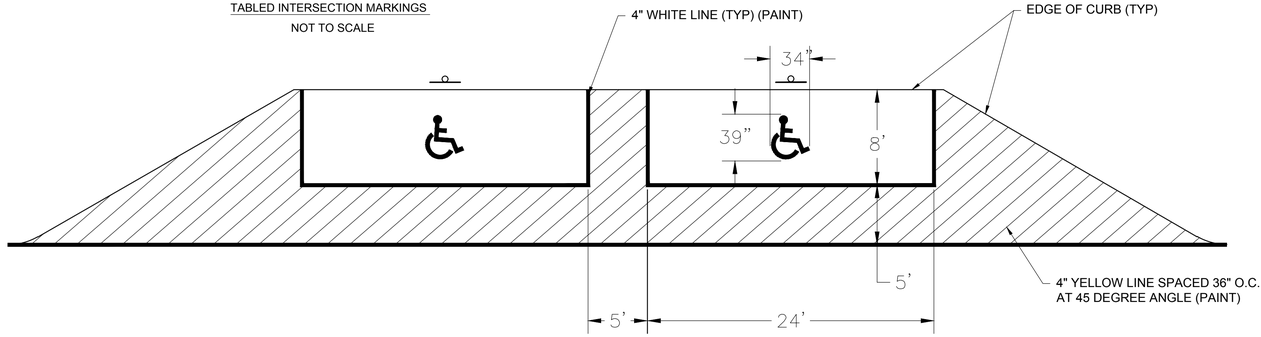
YIELD LINE PER MUTCD

NOT TO SCALE



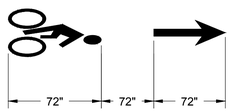
TABLED INTERSECTION MARKINGS

NOT TO SCALE



ADA ACCESSIBLE PARKING MARKINGS

NOT TO SCALE



BICYCLE LANE SYMBOL

NOT TO SCALE

ABBREVIATIONS

APPROX	APPROXIMATE
CW	CROSSWALK
DBYL	DOUBLE YELLOW CENTER LINE
PED	PEDESTRIAN
SWL	SOLID WHITE LINE
ST	STREET
TYP	TYPICAL
VAR	VARIABLE
WCR	WHEELCHAIR RAMP
YL	YIELD LINE

PAVEMENT MARKING LEGEND

SWL	6" SOLID WHITE LINE (PAINT)
12" SWL	12" SOLID WHITE LINE (RETROFLECTIVE THERMOPLASTIC)
DBYL	6" SOLID DOUBLE YELLOW CENTER LINE (PAINT)
CW	WHITE - CROSSWALK (RETROFLECTIVE THERMOPLASTIC)
4" SYBL	4" SINGLE YELLOW BROKEN LINE - 3' LINE WITH 9' GAP PER MUTCD (PAINT)

EXISTING	PROPOSED	DESCRIPTION
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		BICYCLE LANE SYMBOL (RETROREFLECTIVE THERMOPLASTIC)
		SHARED LANE MARKING SYMBOL (RETROREFLECTIVE THERMOPLASTIC)
		WHITE PAVEMENT LEGEND AND ARROW (RETROREFLECTIVE THERMOPLASTIC)

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No. 50065
REGISTERED PROFESSIONAL ENGINEER
Jeffrey W Santacruce

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W&S File No.:	

Drawing Title:
SIGNAGE AND MARKING GENERAL NOTES

Sheet Number:
C100

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QUINSIGAMOND AVE

D3-1
D3-2
R1-1

12"
SWL

5' TYP.

DBYL

ENDICOTT ST

8' CW

16' CW

BENCH

BENCH

SWL

SWL

SWL

SYBL

R7-8

EDGE OF PROPOSED
ASPHALT BIKE WAY (TYP)

RRFB (IA-21)
TO COMPLY WITH MUTCD
APPROVED STANDARDS

MATCHLINE
C102

MATCHLINE
C102

0 10 20 30

SCALE 1"=10'

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SIGNAGE AND
PAVEMENT MARKING
PLAN 1

Sheet Number:

C101

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C101
MATCHLINE

MATCHLINE
C103

DBYL

SWL

SWL

DBYL

ENDICOTT ST

SWL

SWL

SYBL

EDGE OF PROPOSED
ASPHALT BIKE WAY (TYP)

C101
MATCHLINE

MATCHLINE
C103

0 10 20 30

SCALE 1"=10'

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SIGNAGE AND PAVEMENT MARKING PLAN 2

Sheet Number:

C102

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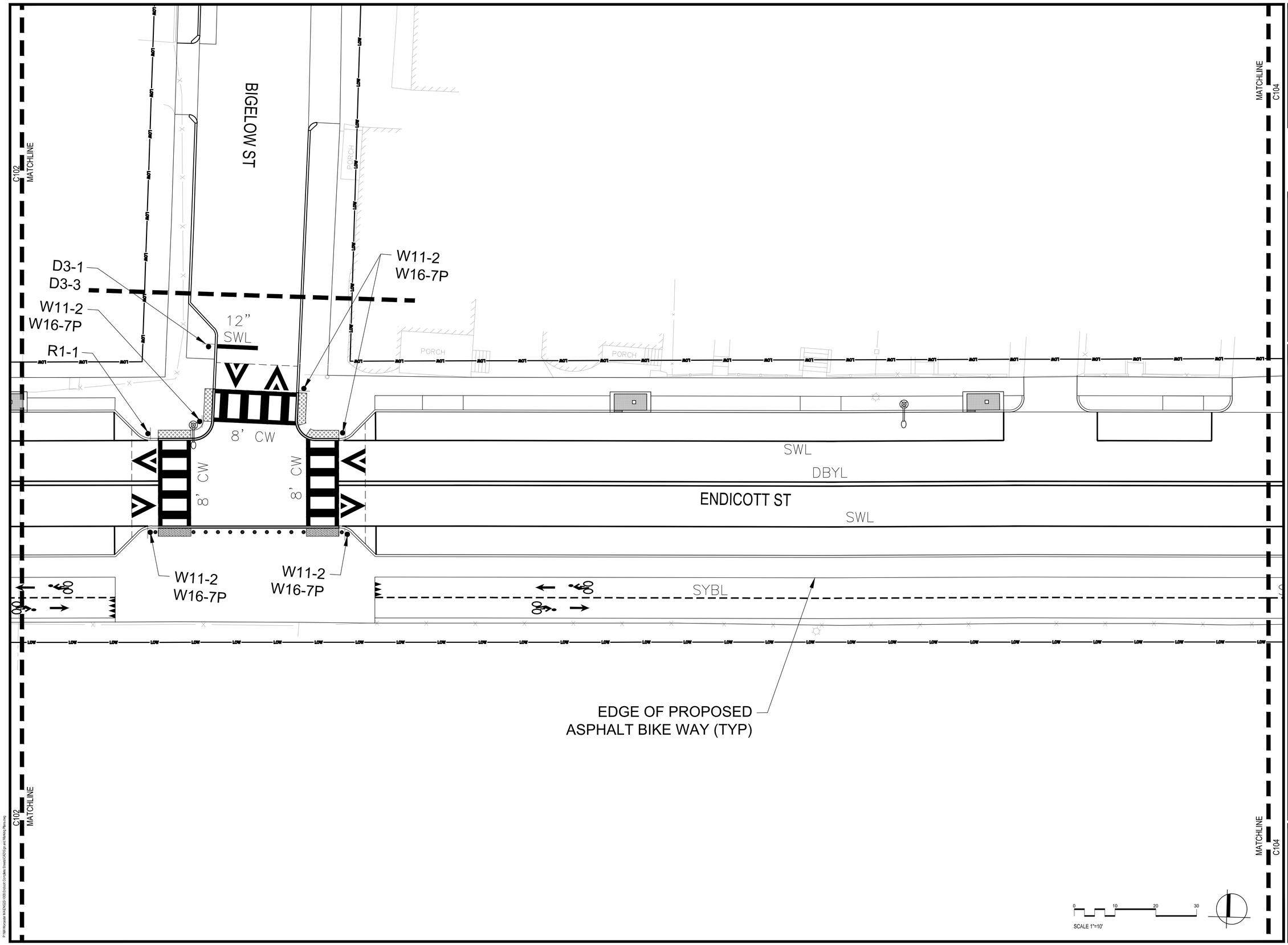

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SIGNAGE AND PAVEMENT MARKING PLAN 3

Sheet Number:

C103

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C103
MATCHLINE

W11-2
W16-7P

R6-1R

HARDING ST
(ONE WAY TO NORTH)

8' CW

8' CW

8' CW

8' CW

12" SWL

12" SWL

SWL

DBYL

ENDICOTT ST

SWL

SWL

SWL

SYBL

R1-1
R6-IL

D3-1
D3-7
R5-1

5' TYP.

HARDING ST
(ONE WAY TO NORTH)

R1-1
R5-1
R6-1L

EDGE OF PROPOSED
ASPHALT BIKE WAY (TYP)

C103
MATCHLINE

0 10 20 30

SCALE 1"=10'

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SIGNAGE AND PAVEMENT MARKING PLAN 4

Sheet Number:

C104

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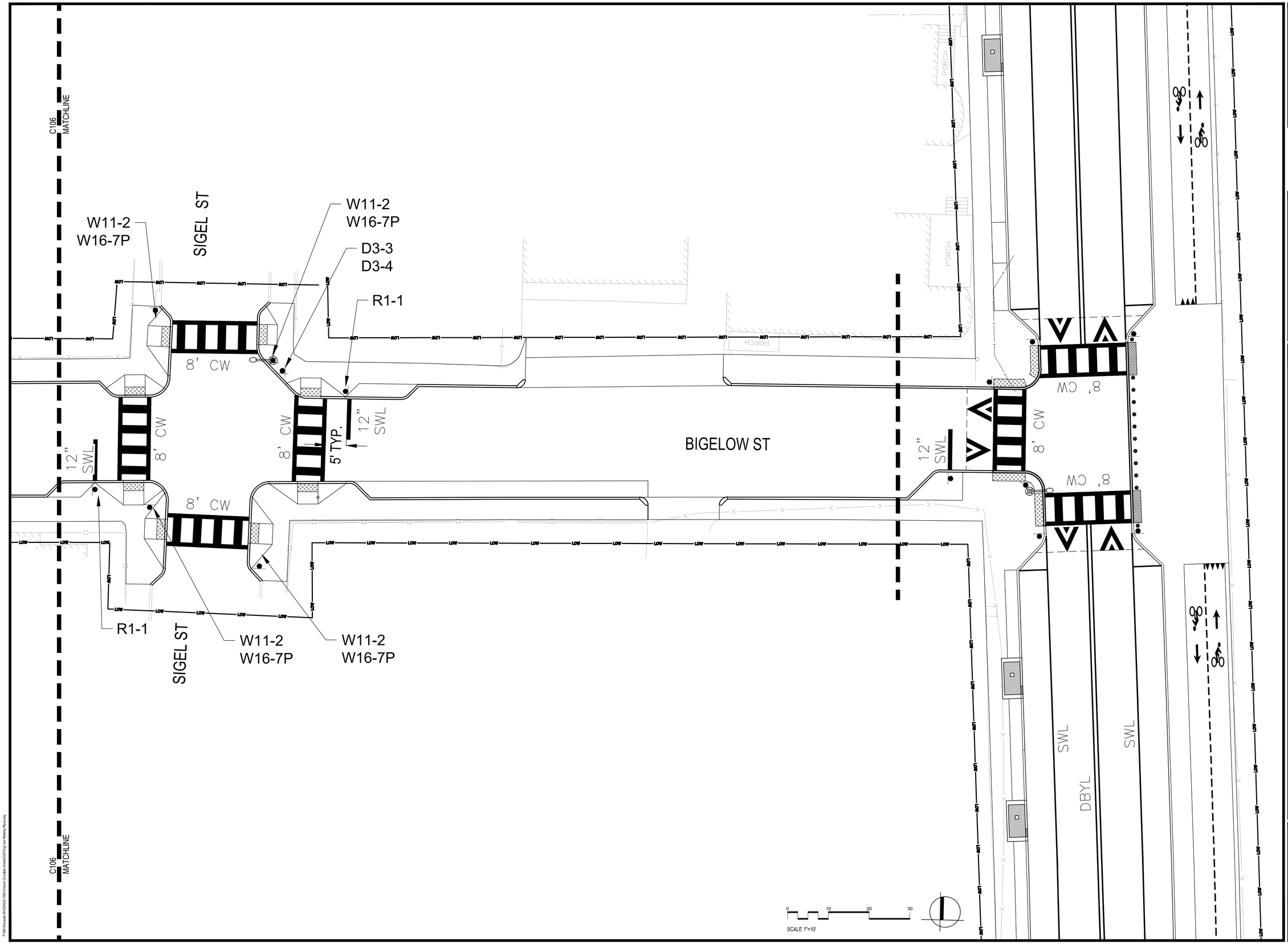

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SIGNAGE AND PAVEMENT MARKING PLAN 5

Sheet Number:
C105

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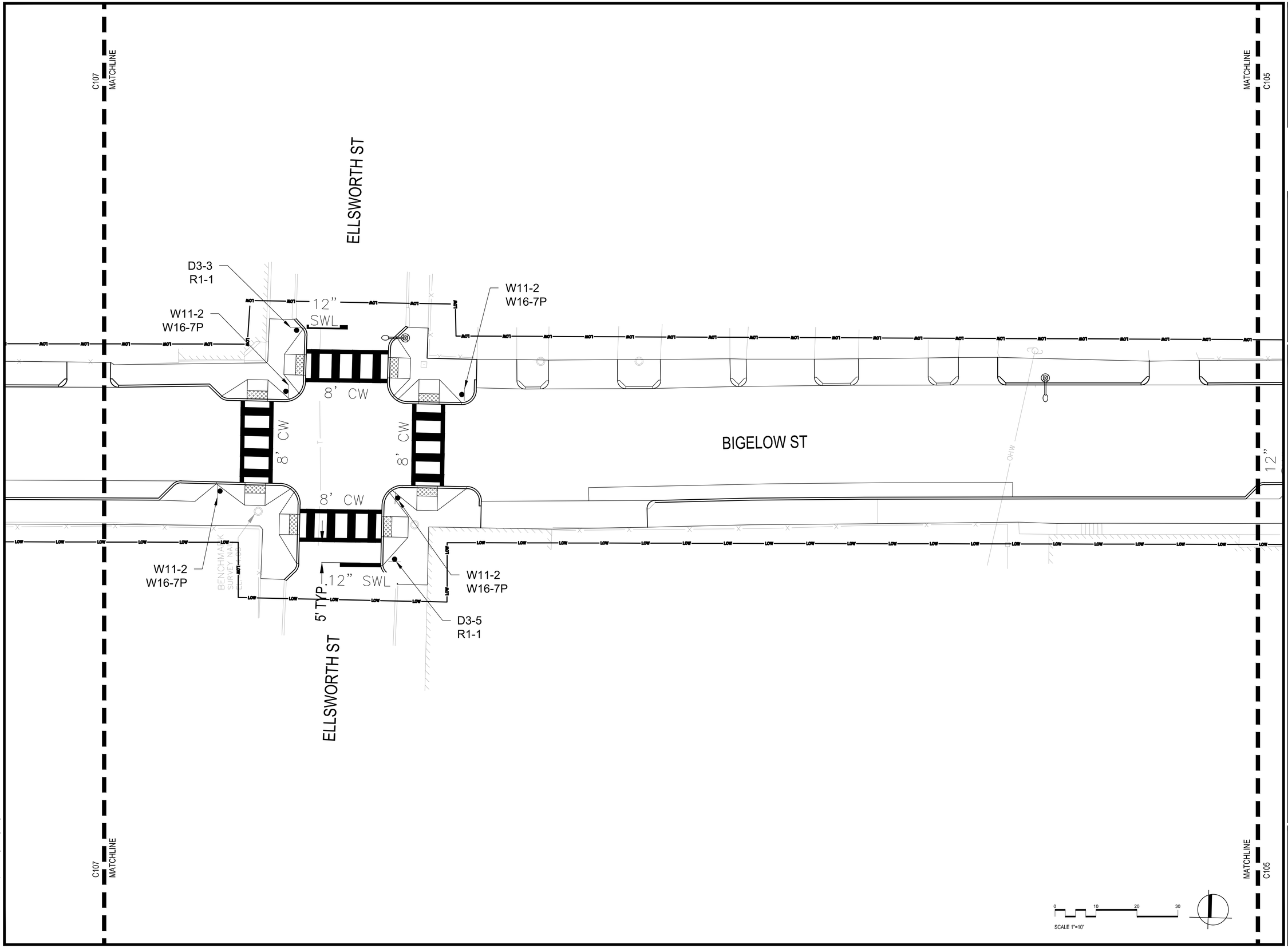

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SIGNAGE AND PAVEMENT MARKING PLAN 6

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C106

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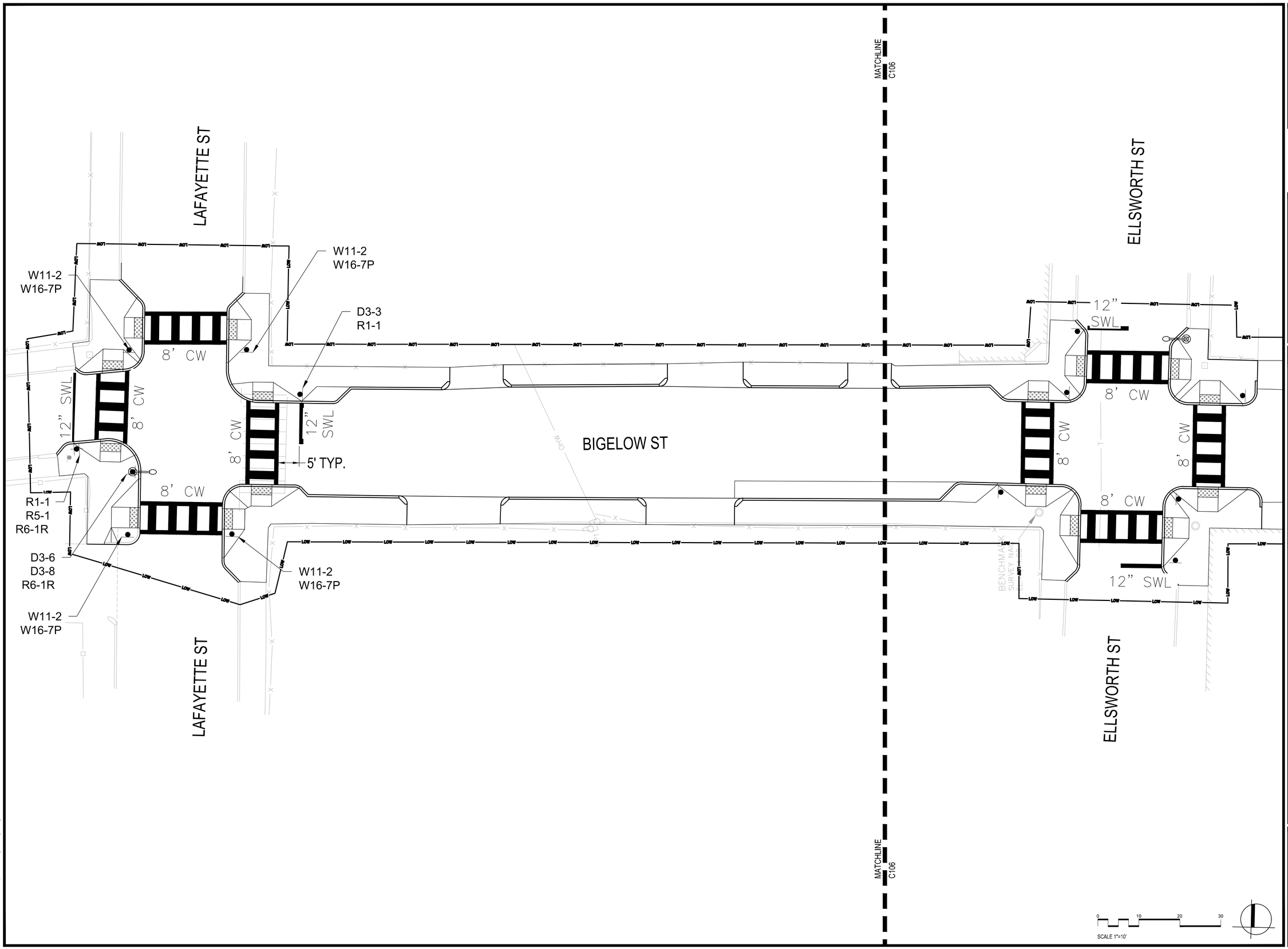

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SIGNAGE AND PAVEMENT MARKING PLAN 7

Sheet Number:

C107

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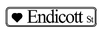
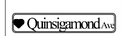
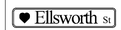
IDENTIFI-CATION NUMBER	SIZE OF SIGN			TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE* AND NUMBER REQUIRED	TOTAL AREA (SF)
	WIDTH (IN)	HEIGHT (IN)	AREA (SF)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACKGROUND	LEGEND	BORDER		
R1-1	30"	30"	6.25		SEE MUTCD STANDARDS			10	RED	WHITE	WHITE	P-5 (10)	62.5
R5-1	30"	30"	6.25		SEE MUTCD STANDARDS			2	WHITE	WHITE	RED	MOUNT BACK TO BACK WITH R1-1	12.50
R6-1R	36"	12"	3.00		SEE MUTCD STANDARDS			2	BLACK	WHITE	WHITE	MOUNT ON TOP OF R1-1 & R5-1	3.00
R6-1L	36"	12"	3.00		SEE MUTCD STANDARDS			2	BLACK	WHITE	WHITE	MOUNT ON TOP OF R1-1 & R5-1	3.00
W11-2	30"	30"	6.25		SEE MUTCD STANDARDS			17	FLORESCENT YELLOW-GREEN	BLACK	BLACK	P-5 (17)	106.25
W16-7P	24"	12"	2.00		SEE MUTCD STANDARDS			17	FLORESCENT YELLOW-GREEN	BLACK	BLACK	MOUNT UNDER W11-2 (17)	34.00
D3-1	42"	9"	2.625		SEE SIGN DETAIL ON SHEET C109			3	GREEN	WHITE	WHITE	MOUNT ABOVE R1-1 (1) MOUNT ON LIGHT POST WITH D3-7 (1) P-5 (1)	7.875
D3-2	48"	9"	3.00		SEE SIGN DETAIL ON SHEET C109			1	GREEN	WHITE	WHITE	MOUNT ABOVE R1-1 (1)	3.00
D3-3	42"	9"	2.625		SEE SIGN DETAIL ON SHEET C109			4	GREEN	WHITE	WHITE	MOUNT WITH D3-1(1) MOUNT ABOVE R1-1 (2) MOUNT ON LIGHT POST WITH D3-4 (1)	10.50
D3-4	36"	9"	2.25		SEE SIGN DETAIL ON SHEET C109			1	GREEN	WHITE	WHITE	MOUNT ON LIGHT POST WITH D3-3 (1)	2.25
D3-5	48"	9"	3.00		SEE SIGN DETAIL ON SHEET C109			1	GREEN	WHITE	WHITE	MOUNT ABOVE R1-1(1)	3.00
D3-6	30"	9"	1.875		SEE SIGN DETAIL ON SHEET C109			1	GREEN	WHITE	WHITE	MOUNT ON LIGHT POST WITH D3-8 & R6-2R (1)	1.875
D3-7	42"	9"	2.625		SEE SIGN DETAIL ON SHEET C109			1	GREEN	WHITE	WHITE	MOUNT ON LIGHT POST WITH D3-1(1)	2.625
D3-8	48"	9"	3.00		SEE SIGN DETAIL ON SHEET C109			1	GREEN	WHITE	WHITE	MOUNT ON LIGHT POST WITH D3-6 & R6-2R (1)	3.00

*ALL SIGN POSTS SHALL BE 2' QWIK PUNCH SIGN POSTS WITH A 2-$\frac{1}{4}$" SQUARE GALVANIZED ANCHOR AND RAIN CAP - POWDER COATED BLACK, OR APPROVED EQUAL.

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REGISTERED PROFESSIONAL ENGINEER

Jeffrey W Santacruce

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SIGN SUMMARY SHEET

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C108

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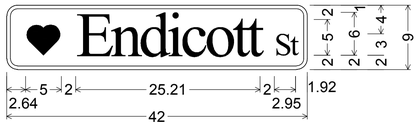
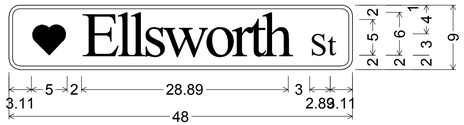
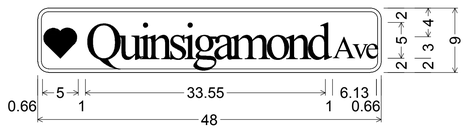


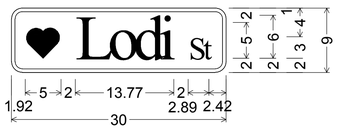
D-3_VARx8;
1.50" Radius, 0.50" Border, White on, Green;
Rounded Rectangle 2.50" Radius Red;
"Endicott", Times New Roman;
"St", Times New Roman;



D-3_VARx8;
1.50" Radius, 0.50" Border, White on, Green;
Rounded Rectangle 2.50" Radius Red;
"Ellsworth", Times New Roman 70% spacing;
"St", Times New Roman 70% spacing;



D-3_VARx8;
1.50" Radius, 0.50" Border, White on, Green;
Rounded Rectangle 2.50" Radius Red;
"Quinsigamond", Times New Roman -40% spacing;
"Ave", Times New Roman 50% spacing;



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"St", Times New Roman 70% spacing;

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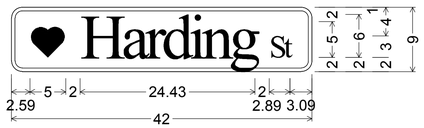

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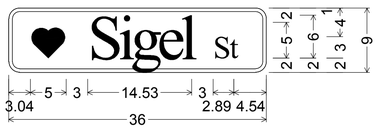

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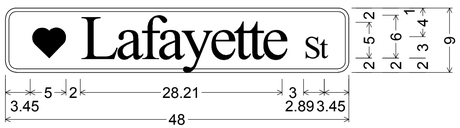

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Rounded Rectangle 2.50" Radius Red;
"Lafayette", Times New Roman 70% spacing;
"St", Times New Roman 70% spacing;

NOTE:
1. THE "HEART" SHOWN ON ALL STEET NAME SIGNS SHALL BE PER THE CITY OF WORCESTER'S LATEST CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL SIGNS SHOWING DIMENSIONS AND COLORS BEFORE FABRICATION.

Project:
GREEN ISLAND PHASE II
WORCESTER, MA 01610

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Consultants:

Revisions:

No.	Date	Description

COA:

Seal:
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JEFFREY W. SANTACRUCE
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REGISTERED PROFESSIONAL ENGINEER
Jeffrey W Santacruce

Issued For:
BID DOCUMENTS

Scale: AS SHOWN

Date:	5/27/2025
Drawn By:	TZ, KA
Reviewed By:	MS
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Drawing Title:
SIGN DETAIL SHEET

Sheet Number:
C109

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P:\MA\Worcester\MA3N2025\998 Endicott Complete Streets\CAD\Signs and Marking Plans.dwg

GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF WORCESTER DPW'S STANDARD SPECIFICATIONS, AND THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFCIATIONS FOR HIGHWAYS AND BRIDGES.
2. EQUIPMENT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS OR INDICATED ON THE CONTRACT DRAWINGS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.
3. THE WORK SHALL CONFORM TO THE MORE STRINGENT OF ALL APPLICABLE CODES & REGULATIONS. UL AND FM GUIDELINES (AS APPLICABLE), MANUFACTURER'S LITERATURE AND RECOMMENDATIONS, BUILDING OPERATOR'S REQUIREMENTS, AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION. PROJECTS PURSING LEED, PASSIVE HOUSE, FITWEL OR OTHER SUSTAINBILITY CERTIFATIONS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS.
4. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE EXTENT, GENERAL CHARACTER, LOCATION AND ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. EXACT LOCATIONS OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR ADJUSTMENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES SHALL BE PROVIDED WITHOUT EXTRA COST. THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY.
5. THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "MECHANICAL WORK", "ELECTRICAL WORK", "PLUMBING WORK", ETC. SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
6. THE CM/GC SHALL MAKE SETS OF THE BID DOCUMENTS CONSISTING OF COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS; AND ISSUE THEM TO EACH OF THE PRIME AND SUB-CONTRACTORS. EVERY PRIME AND SUB-CONTRACTOR ON EACH BIDDING TEAM SHALL RECEIVE COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS. THERE ARE NOTES AND CROSS REFERENCES FOR VARIOUS TRADE CONTRACTORS IN MULTIPLE TRADE OR DISCIPLINE DRAWINGS AND SPECIFICATIONS, THUS, EACH CONTRACTOR IS TO RECEIVE COMPLETE SETS OF THE BID DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM CM/GC. EACH CONTRACTOR IS RESPONSIBLE FOR THEIR WORK, AS NOTED ON THE OTHER DISCIPLINE DOCUMENTS. BIDDERS ARE RESPONSIBLE FOR ALL COSTS FOR EACH SET OF BID DOCUMENTS REQUESTED.
7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL COORDINATION EFFORT IN ORDER TO CREATE A FINALIZED COORDINATED LAYOUT OF ALL EQUIPMENT, SYSTEMS, DUCTWORK, PIPING AND ALL OTHER ITEMS WITHIN THEIR RESPECTIVE SCOPE. THE CONTRACTOR'S COORDINATION EFFORT SHALL INCLUDE COORDINATED INFORMATION FROM ALL OTHER TRADE CONTRACTOR'S INVOLVED IN THE PROJECT SCOPE IN ORDER TO PROVIDE COORDINATION BETWEEN TRADES AND ALL EXISTING CONDITIONS. ALL ERRORS MADE AS A RESULT OF A LACK OF COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CORRECTED AT NO ADDITIONAL COST TO THE PROJECT. MINOR RELOCATIONS AND SHIFTS OF EQUIPMENT AND PIPING WHICH DO NOT CHANGE THE DESIGN INTENT INDICATED ON THE CONTRACT DOCUMENTS, REQUIRED TO ACCOMMODATE FIELD CONDITIONS ARE AT THE CONTRACTORS DISCRETION AND DO NOT REQUIRE ENGINEER APPROVAL.
8. CONTRACTOR SHALL ARRANGE AND OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL RELATED FEES.
9. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS. ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
10. FOR ANY DISCREPANCY BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BASE THEIR BID UPON THE MOST STRINGENT REQUIREMENT (QUALITY, QUANTITY, SIZE, ETC.). THE CONTRACTOR SHALL IDENTIFY DISCREPANCIES AS PART OF THEIR BID.
11. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL LOG ALL EXISTING EQUIPMENT AND TRACE ELECTRICAL CIRCUITS SERVING EXISTING LIGHTING POLES.
12. ALL SERVICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUT DOWNS AND TIMING WITH OWNER AND UTILITY.
13. THE CONTRACTOR SHALL EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED.
14. EXISTING EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED, RELOCATED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED, TO SUIT THE NEW ARRANGEMENT.
15. PROVIDE CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE REPAIR OF EXISTING WORK.
16. WHEN WORK INVOLVES CONTACT WITH MATERIALS CONTAINING ASBESTOS, PCB, OR OTHER TOXIC MATERIALS, NOTIFY OWNER, WHO WILL ESTABLISH PROCEDURES FOR REMEDIATION AND REMOVAL.
17. CONTRACTOR SHALL SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY THE OVERALL PROGRESS OF THE PROJECT.
18. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.
19. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECIFICATIONS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY ARCHITECT/ENGINEER.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF OTHER THAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED, THE COST OF ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR.
21. ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE DONE IN ACCORDANCE WITH GOOD TRADE PRACTICE AND IN CONFORMANCE WITH APPLICABLE MANUFACTURERS' RECOMMENDATIONS.
22. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY.
23. RESTORE ALL SURFACES THAT ARE DAMAGED BY THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.
24. IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER.
25. BALA CONSULTING ENGINEERS, INC. (BALA) WILL PROVIDE CONTRACTOR WITH ELECTRONIC CADD FILES OF THE ENGINEERING DESIGNS FOR THE SOLE USE IN EXPEDITING SHOP DRAWINGS. BALA'S FILES SHALL NOT BE DIRECTLY COPIED AND ISSUED AS SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS. SHOULD THE SHOP DRAWINGS SUBMITTED PROVE TO BE A DIRECT COPY OF OUR FILES WITHOUT THE NECESSARY FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS, THESE SHOP DRAWINGS WILL BE RETURNED AS REJECTED. BALA'S ELECTRONIC FILES ARE CREATED IN AUTOCAD OR REVIT BASED ON THE PROJECT'S DOCUMENTATION REQUIREMENTS. BALA MAKES NO REPRESENTATION AS TO THE COMPATIBILITY OF THESE FILES WITH THE CONTRACTOR'S HARDWARE OR THEIR SOFTWARE. DATA CONTAINED ON THESE ELECTRONIC FILES ARE PART OF BALA'S "INSTRUMENTS OF SERVICE" AND ARE COPYRIGHTED. CONTRACTOR'S USE OF FILES IS FOR THE SOLE PURPOSE AS A CONVENIENCE IN THE PREPARATION OF DRAWINGS FOR THE REFERENCED PROJECT. ANY OTHER USE OR REUSE BY CONTRACTOR IS UNLAWFUL.

ELECTRICAL DEMOLITION NOTES:

1. UNLESS OTHERWISE NOTED ALL ELECTRICAL EQUIPMENT IN THE AREAS TO BE RENOVATED SHALL BE DEMOLISHED TO CLEAR FOR NEW CONSTRUCTION. ELECTRICAL EQUIPMENT SHALL INCLUDE BUT NOT LIMITED TO: DEVICES, CONDUIT, WIRE, DISCONNECTS, AND ALL APPURTENANCES TO THE ABOVE.
2. THE ELECTRICAL CONTRACTOR (E.C.) SHALL REVIEW THE DEMOLITION PLANS OF ALL TRADES FOR ADDITIONAL ELECTRICAL EQUIPMENT TO BE REMOVED THAT IS NOT SHOWN IN THIS DRAWING. THE E.C. SHALL DISCONNECT AND REMOVE ALL ELECTRICAL APPURTENANCES ASSOCIATED WITH THIS EQUIPMENT. SEE MECHANICAL AND PLUMBING DEMOLITION DRAWINGS.
3. THE E.C. SHALL TRACE AND FIELD VERIFY ALL CONDUIT AND WIRING RUNS IN THE AREA DESIGNATED TO BE DEMOLISHED AND DETERMINE WHICH CIRCUITS EFFECT AREAS OUTSIDE THE DEMOLITION ZONE. WHERE CIRCUITS INCLUDING BUT NOT LIMITED TO FIRE ALARM, SECURITY, POWER, LIGHTING, ETC, ARE DETERMINED TO FEED OTHER AREAS TO REMAIN, THE E.C. SHALL REMOVE THE CONDUIT AND CABLE IN THE DEMOLITION ZONE AND REROUTE A NEW RUN OF CONDUIT AND CABLE TO RE-ESTABLISH THE EXISTING CIRCUIT INTEGRITY, INCLUDING FIRE ALARM LOOPS. NEW CONDUIT AND CABLE RUNS SHALL BE RUN THROUGH THE EXISTING BUILDING, OUTSIDE THE ENVELOPE OF DEMOLITION AREA.
4. BEFORE REMOVING ELECTRICAL EQUIPMENT, CONDUIT, OR CABLING WHICH MAY AFFECT OTHER AREAS, THE E.C. SHALL COORDINATE TIE OVER AND TRANSITION PERIODS WITH THE OWNER AND UTILITY.
5. THE DEMOLITION WORK TO BE DONE UNDER THIS PROJECT INCLUDES REMOVING EQUIPMENT, MATERIALS AND PROVIDING LABOR AND SERVICES AND PERFORMING ALL OPERATIONS FOR DEMOLITION IN AREAS INDICATED ON DRAWINGS.
6. THE E.C. SHALL PROVIDE ALL SCAFFOLDING, LADDERS, RIGGING, HOISTING, ETC., FOR THIS WORK, KEEP PREMISES FREE FROM RUBBISH AND REMOVE ALL ELECTRICAL RUBBISH FROM SITE.
7. ANY FUNCTIONING EQUIPMENT TO BE REMOVED BY DEMOLITION SHALL BE REVIEWED WITH OWNER TO DETERMINE IF IT SHOULD BE SAVED AND STORED. OWNER SHALL BE RESPONSIBLE FOR HANDLING OF EQUIPMENT TO OFF-SITE STORAGE LOCATION.

ELECTRICAL GENERAL NOTES:

1. ENTIRE INSTALLATION, INCLUDING MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL CONFORM WITH THE CURRENTLY ADOPTED NATIONAL ELECTRICAL CODE, WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS AND REGULATORY BODIES HAVING JURISDICTION OVER THIS WORK.
2. THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL UTILITIES. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING UTILITIES AND TO EXISTING EQUIPMENT OR SURFACE DAMAGED SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR REPLACED.
3. AFTER HOURS SHUTDOWN WORK SHALL BE AT SUCH TIME AND IN SUCH MANNER AS DIRECTED BY THE OWNER. PROVIDE A MINIMUM ONE (1) WEEK NOTICE. WHERE SHUTDOWN PERIODS CANNOT BE OF DURATION TO ACCOMMODATE THE NEW WORK, THE ELECTRICAL CONTRACTOR SHALL PERFORM THE WORK IN A SERIES OF PRE PLANNED STAGES OF MINIMAL ALLOWABLE SHUTDOWN PERIODS. PROVIDE TEMPORARY FACILITIES TO ALLOW RE-ENERGIZING OF SERVICE BETWEEN WORKING STAGES.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR ALL WORK AREAS AND TRADES UNDER THIS CONTRACT AS REQUIRED FOR CONSTRUCTION OR AS REQUIRED TO MAINTAIN NORMAL OPERATIONS OF THE SITE ACTIVITIES. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT, MAKING ALL ARRANGEMENTS WITH THE UTILITY CO. WHERE ADEQUATE, EXISTING SERVICES MAY BE USED.
5. EXISTING ELECTRICAL EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED, RELOCATED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED, TO SUIT THE NEW ARRANGEMENT.EXISTING ELECTRICAL EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED, RELOCATED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED, TO SUIT THE NEW ARRANGEMENT.
6. DIVISION 26, OR EC SHALL BE USED INTERCHANGEABLY AND SHALL INDICATE WORK INCLUDED UNDER THE ELECTRICAL CONTRACTORS SCOPE.

UTILITY COORDINATION:

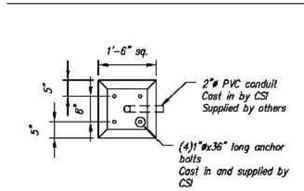
1. EXISTING LIGHTING POLES ARE ON UNMETERED SERVICES FOR WHICH THE CITY OF WORCESTER PAYS AN ANNUAL TARIFF PER LIGHTING POLE. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED COORDINATION WITH THE UTILITY FOR EXISTING UNDERGROUND CONDUIT AND WIRE AFFECTED BY THIS WORK, AND SHALL PAY ANY AND ALL UTILITY FEES.
2. APPROXIMATE NEW LOCATION OF CONDUIT AND WIRE IS SHOWN ON PLANS BUT SHALL BE FIELD COORDINATED. CIRCUIT TIE-IN POINTS FOR CONDUIT AND WIRE ASSOCIATED WITH STREET LIGHTING POLES NOT BEING REPLACED AS PART OF THIS PROJECT SHALL BE FIELD COORDINATED AND COORDINATED WITH DPW AND THE UTILITY.

CONDUIT AND WIRE:

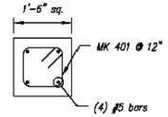
1. WIRE SHALL BE RHH-RHW AS SPECIFIED IN 26 00 00.
2. EXISTING CONDUIT AND WIRE SIZE, QUANTITY, AND ROUTE SHALL BE INVESTIGATED. QUANTITY AND SIZE OF WIRE IN NEW CONDUIT SHALL MATCH EXISTING. ASSUME WIRES ENTERING EXISTING POLES ARE MINIMUM #2 AWG AND THAT EACH POLE CONTAINS TWO 120/240V HOT LEGS AND ONE NEUTRAL.
3. NO SPLICING SHALL OCCUR WITHIN CONDUIT. PROVIDE SPLICES AS REQUIRED FOR ANY REQUIRED TIE-INS TO EXISTING CONDUIT AND WIRE AND PROVIDE SPLICES WITHIN NEW HANDHOLES. PROVIDE ALL NEW CONDUIT AND WIRE FOR NEW HANDHOLES AND RELOCATED LIGHTING POLES.
4. UNDERGROUND CONDUIT SHALL BE MINIMUM 24" BELOW GRADE. CONDUIT UNDER ROADWAYS SHALL BE CONCRETE ENCASED.
5. NEW CONDUITS SHALL BE SCHEDULE 80 PVC AND 2" TRADE SIZE MINIMUM UNLESS REQUIRED TO BE LARGER DUE TO FILL REQUIREMENTS.
6. CONDUIT AND WIRE ROUTING, AND LOCATION OF HANDHOLES, SHOWN ON THE PLANS IS ONLY DIAGRAMMATICAL. FIELD COORDINATE ALL LOCATIONS AND ROUTING.
7. ALL NEW ELECTRICAL CONDUIT, WIRING, AND RELOCATED LIGHTING POLES SHALL BE GROUNDED IN ACCORDANCE WITH ANY UTILITY REQUIREMENTS.

RELOCATED LIGHTING POLES:

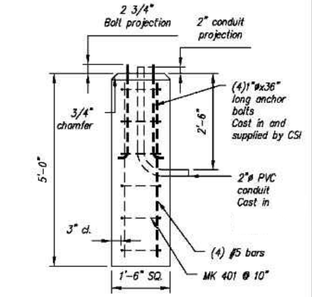
1. ELECTRICAL CONTRACTOR SHALL REMOVE, STORE, AND RELOCATE EXISTING STREET LIGHTING POLES AS INDICATED ON THE PLANS. STORE THE LIGHTING POLES AND CLEAN PRIOR TO INSTALLATION IN NEW LOCATIONS. UNLESS OTHERWISE NOTED, POLES SHALL BE RELOCATED TO THE NEW LOCATION THAT IS CLOSEST TO ITS PREVIOUS LOCATION. PROVIDE NEW LIGHTING POLE BASE IN ACCORDANCE WITH SPECIFICATIONS AND DETAIL THIS SHEET.
2. EXISTING POLES ARE EQUIPPED WITH POLE-TOP PHOTOCELLS/CONTROLLERS. COORDINATE WITH WORCESTER DPW AND PROVIDE ALL COORDINATION AND WORK REQUIRED FOR ANY CHANGES TO PROGRAMMING OR PROPER OPERATION OF THE LIGHTING CONTROL SCHEME DURING THE COURSE OF WORK.
3. EXISTING LIGHTING POLES HAVE A HANDHOLE OPENING NEAR THEIR BASE. UPON RELOCATION, PROVIDE A NEW COVER AND FASTENER FOR THE HANDHOLE ON THE POLE. COVER SHALL BE DPW STANDARD. COORDINATE WITH DPW.
4. EACH RELOCATED LIGHTING POLE SHALL BE PROVIDED A NEW 1' x 2' HANDHOLE ADJACENT TO POLE. PROVIDE 2" CONDUIT FROM HANDHOLE TO POLE AND CONDUIT BETWEEN HANDHOLES AS INDICATED ON PLAN. REFER TO HANDHOLE DETAIL FOR ADDITIONAL NOTES.
5. PROVIDE GROUNDING AND 10' GROUND ROD AT EACH POLE.



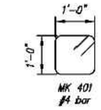
PLAN



REINFORCING DETAIL



ELEVATION



BENDING SCHEDULE

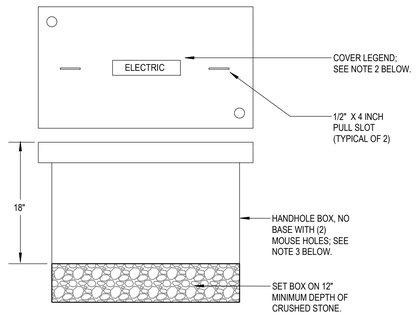
PRECAST SQUARE CONCRETE LIGHT POLE BASE

GENERAL NOTES:
1. Concrete Strength f'c = 4000 psi.
2. Reinforcing Steel: ASTM A615 (rebar) grade 60
3. Sweeps supplied by others, cast in by CSI.

DETAIL - LIGHTING POLE BASE

NOTES:

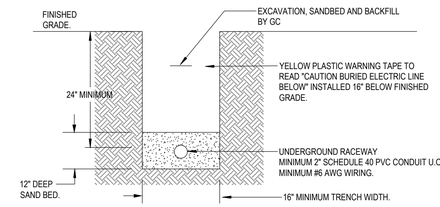
1. PROVIDE NEW LIGHTING POLE BASE AND ANCHORAGE FOR ALL RELOCATED LIGHTING POLES.



DETAIL - ELECTRICAL HANDHOLE

NOTES:

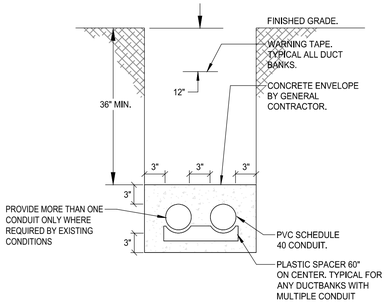
1. PROVIDE STACKABLE OPEN BOTTOM HANDHOLES WITH HEAVY DUTY GASKETED LOCKING COVER WITH CONDUIT SIZES PER SITE PLAN.
2. GASKETING LOCKING COVER ID SHALL READ: "ELEC" FOR POWER DISTRIBUTION. "LIGHTING" FOR SITE LIGHTING
3. HANDHOLE SIZES SHALL BE AS FOLLOWS: 12" X 24" FOR SITE LIGHTING UNLESS SMALLER SIZE IS PERMITTED BY WORCESTER DPW AND IS ALSO SUFFICIENT SIZE FOR ANY INTERNAL WIRING AND SPLICING
4. HANDHOLES SHALL BE AASHTO H20 RATED WITH CAST IRON COVER UNLESS OTHERWISE PERMITTED BY WORCESTER DPW UPON REQUEST



NOTES:

1. EXACT ROUTING OF SITE LIGHTING RACEWAY SHALL BE COORDINATED IN THE FIELD TO AVOID TREE PLANTINGS AND OTHER UNDERGROUND UTILITIES.

DETAIL - DIRECT BURIED CONDUIT



DETAIL - CONCRETE ENCASED DUCTBANK

Project: ENDICOTT AND BIGELOW COMPLETE STREETS

WORCESTER, MA 01610

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MECHANICAL | ELECTRICAL | PLUMBING | FIRE PROTECTION
STRUCTURAL | TECHNOLOGY | COMMISSIONING

Revisions:

No.	Date	Description

COA:

Seal:

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ZACHARY M. BARRETT
ELECTRICAL
NO. 56182
REGISTERED PROFESSIONAL ENGINEER
5-15-25

Issued For:

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Scale: AS SHOWN

Date:	5/27/2025
Drawn By:	ZB
Reviewed By:	DB
Approved By:	ZB
W&S Project No.:	ENG_22-1008
W&S File No.:	

Drawing Title:

ELECTRICAL GENERAL NOTES & DETAILS

Sheet Number:

E100

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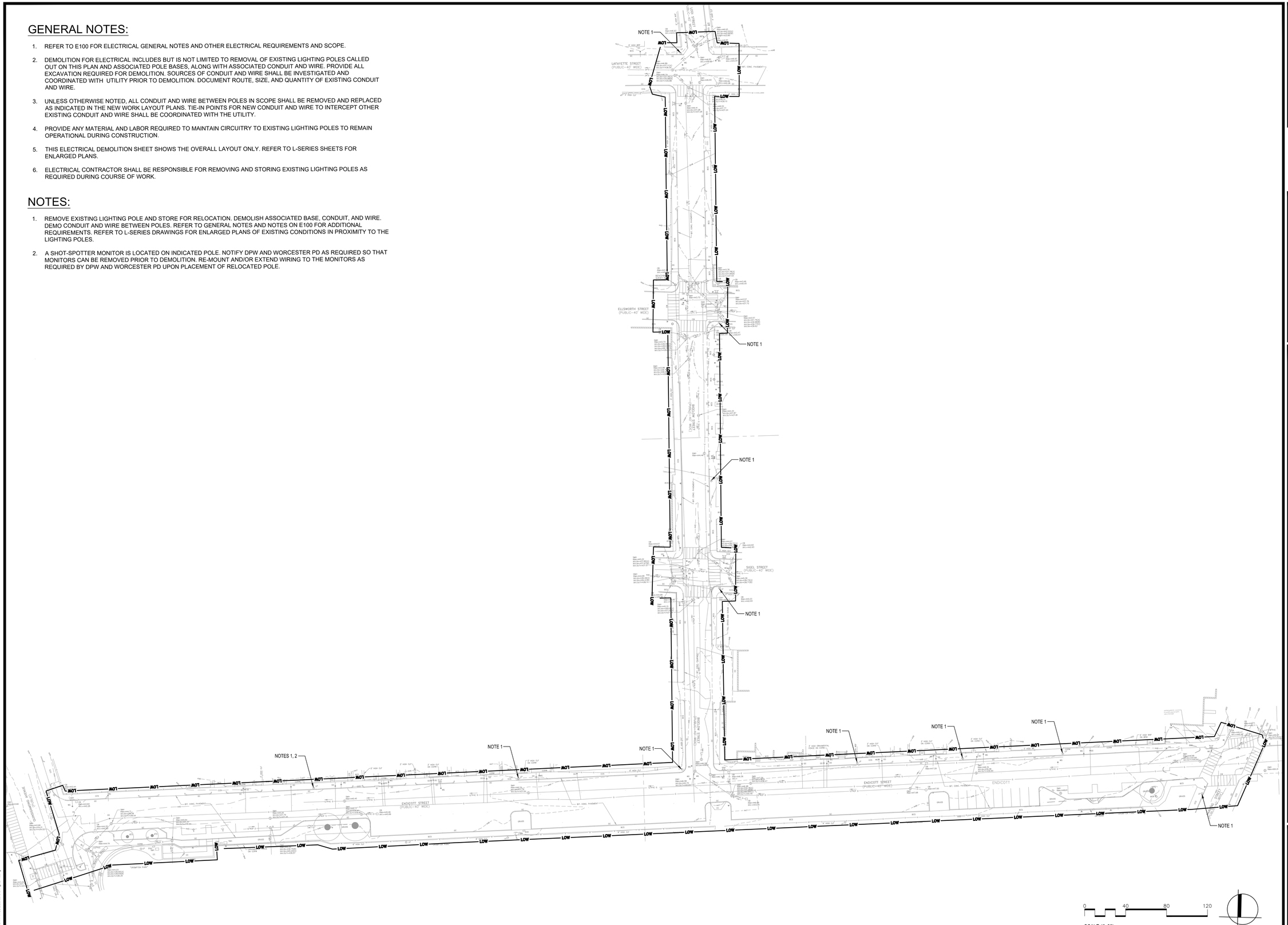
GENERAL NOTES:

1. REFER TO E100 FOR ELECTRICAL GENERAL NOTES AND OTHER ELECTRICAL REQUIREMENTS AND SCOPE.
2. DEMOLITION FOR ELECTRICAL INCLUDES BUT IS NOT LIMITED TO REMOVAL OF EXISTING LIGHTING POLES CALLED OUT ON THIS PLAN AND ASSOCIATED POLE BASES, ALONG WITH ASSOCIATED CONDUIT AND WIRE. PROVIDE ALL EXCAVATION REQUIRED FOR DEMOLITION. SOURCES OF CONDUIT AND WIRE SHALL BE INVESTIGATED AND COORDINATED WITH UTILITY PRIOR TO DEMOLITION. DOCUMENT ROUTE, SIZE, AND QUANTITY OF EXISTING CONDUIT AND WIRE.
3. UNLESS OTHERWISE NOTED, ALL CONDUIT AND WIRE BETWEEN POLES IN SCOPE SHALL BE REMOVED AND REPLACED AS INDICATED IN THE NEW WORK LAYOUT PLANS. TIE-IN POINTS FOR NEW CONDUIT AND WIRE TO INTERCEPT OTHER EXISTING CONDUIT AND WIRE SHALL BE COORDINATED WITH THE UTILITY.
4. PROVIDE ANY MATERIAL AND LABOR REQUIRED TO MAINTAIN CIRCUITRY TO EXISTING LIGHTING POLES TO REMAIN OPERATIONAL DURING CONSTRUCTION.
5. THIS ELECTRICAL DEMOLITION SHEET SHOWS THE OVERALL LAYOUT ONLY. REFER TO L-SERIES SHEETS FOR ENLARGED PLANS.
6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND STORING EXISTING LIGHTING POLES AS REQUIRED DURING COURSE OF WORK.

NOTES:

1. REMOVE EXISTING LIGHTING POLE AND STORE FOR RELOCATION. DEMOLISH ASSOCIATED BASE, CONDUIT, AND WIRE. DEMO CONDUIT AND WIRE BETWEEN POLES. REFER TO GENERAL NOTES AND NOTES ON E100 FOR ADDITIONAL REQUIREMENTS. REFER TO L-SERIES DRAWINGS FOR ENLARGED PLANS OF EXISTING CONDITIONS IN PROXIMITY TO THE LIGHTING POLES.
2. A SHOT-SPOTTER MONITOR IS LOCATED ON INDICATED POLE. NOTIFY DPW AND WORCESTER PD AS REQUIRED SO THAT MONITORS CAN BE REMOVED PRIOR TO DEMOLITION. RE-MOUNT AND/OR EXTEND WIRING TO THE MONITORS AS REQUIRED BY DPW AND WORCESTER PD UPON PLACEMENT OF RELOCATED POLE.



Project: ENDICOTT AND BIGELOW COMPLETE STREETS

WORCESTER, MA 01610

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No.	Date	Description

COA:

Seal:

COMMONWEALTH OF MASSACHUSETTS
ZACHARY M. BARRETT
ELECTRICAL
NO. 56182
REGISTERED
PROFESSIONAL ENGINEER
5-15-25

Issued For:

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Date:	5/27/2025
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Reviewed By:	DB
Approved By:	ZB
W&S Project No.:	ENG_22-1008
W&S File No.:	

Drawing Title:

ELECTRICAL DEMOLITION

Sheet Number:

E110

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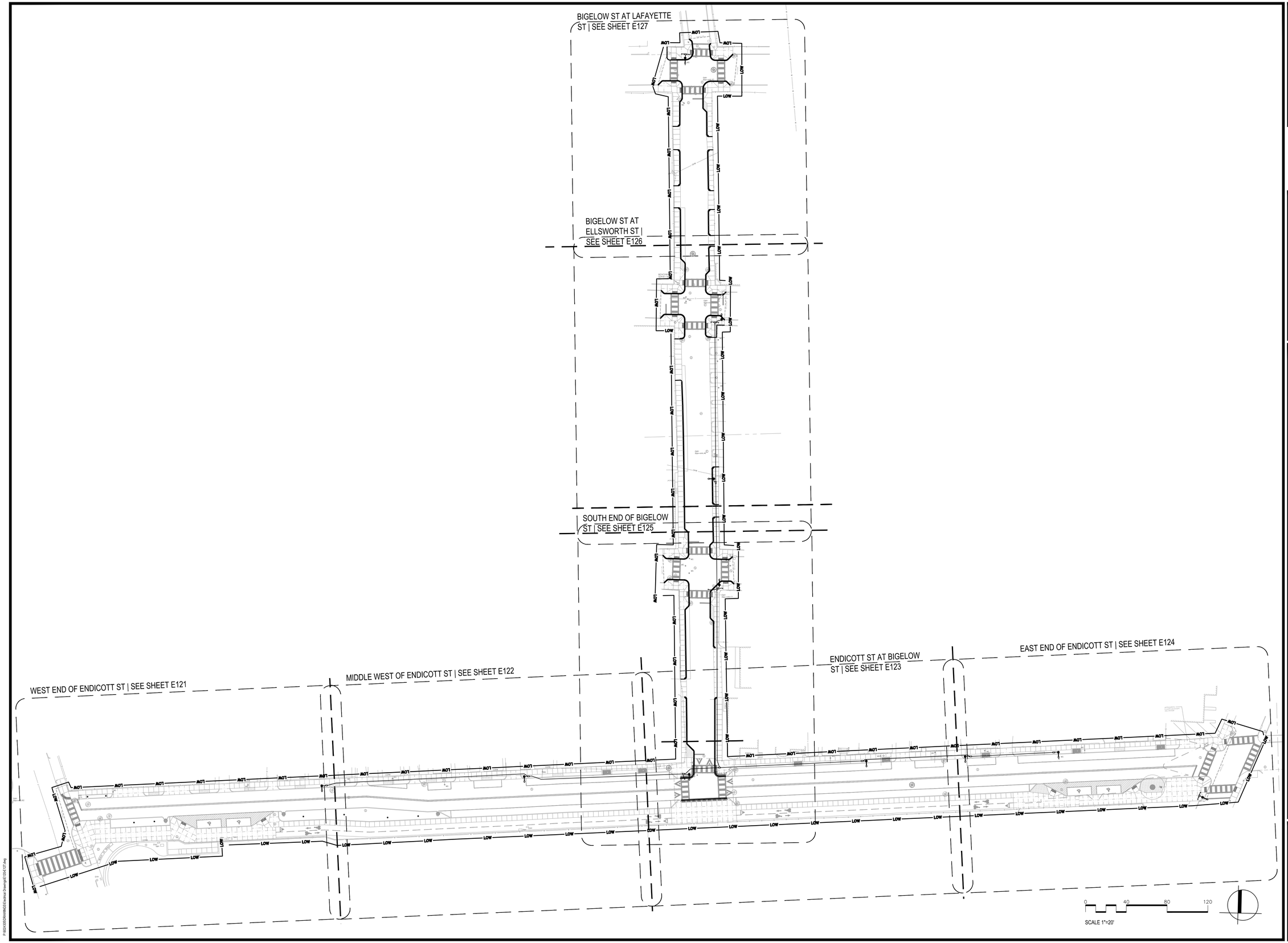

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Drawing Title:

ELECTRICAL OVERALL SITE PLAN

Sheet Number:

E120

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GENERAL NOTES:

1. REFER TO E100 FOR ELECTRICAL GENERAL NOTES AND OTHER ELECTRICAL REQUIREMENTS AND SCOPE.
2. CONDUIT ROUTING IS DIAGRAMMATICAL. LOCATIONS OF NEW HANDHOLES AND RELOCATED STREET LIGHTING POLES ARE APPROXIMATE. ALL ROUTING AND LOCATIONS SHALL BE FIELD COORDINATED.
3. COORDINATE WITH UTILITY AS REQUIRED.
4. BACKGROUNDS ARE SCREENED ON ELECTRICAL. ENLARGED DRAWINGS TO HIGHLIGHT THE ELECTRICAL WORK. REFER TO L-SERIES DRAWINGS FOR OTHER SCOPE.

NOTES:

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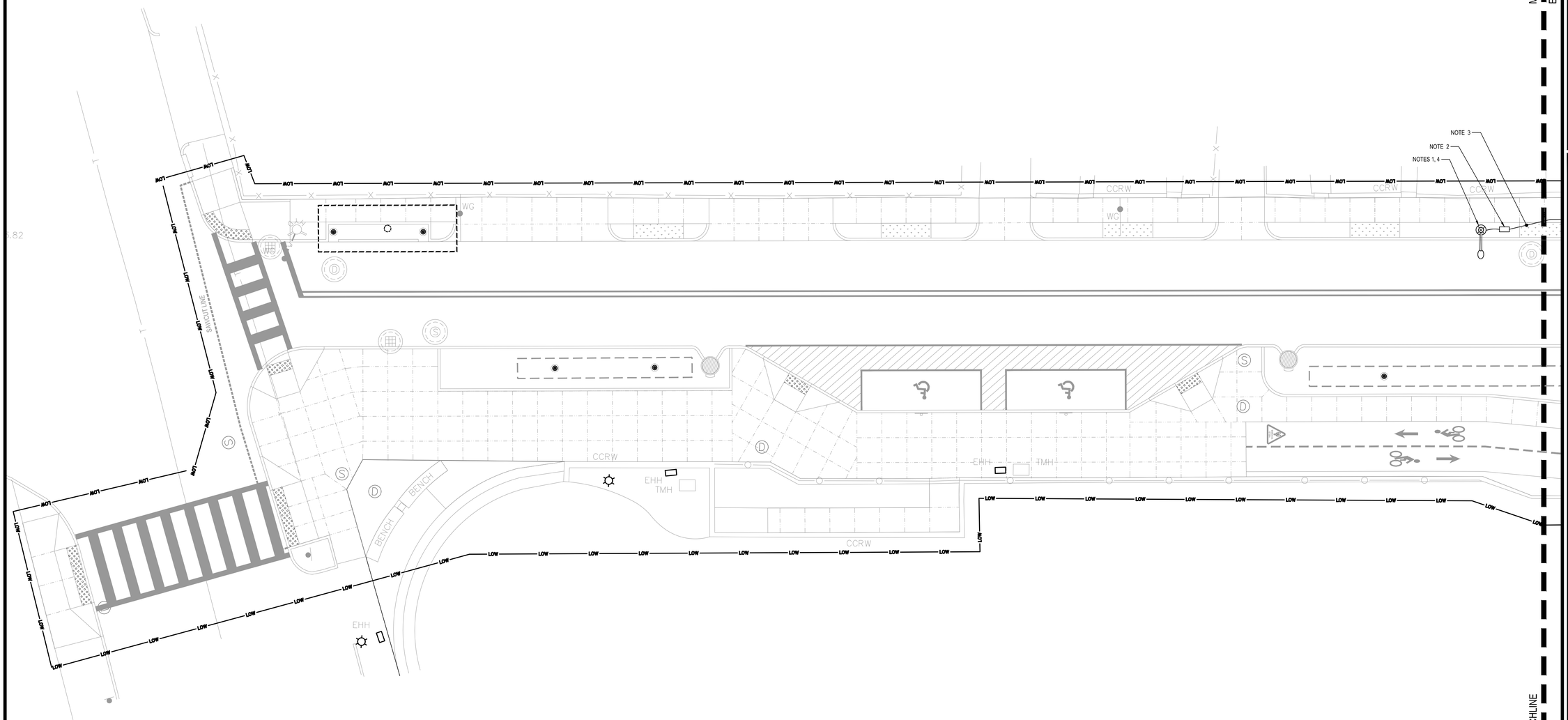
4. COORDINATE WITH DPW AND WORCESTER PD AS REQUIRED FOR INSTALLATION OF SHOT-SPOTTER MONITOR ON RELOCATED POLE.



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Approved By:	ZB
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Drawing Title:

ELECTRICAL SITE ENLARGEMENT PLAN

Sheet Number:

E121

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GENERAL NOTES:

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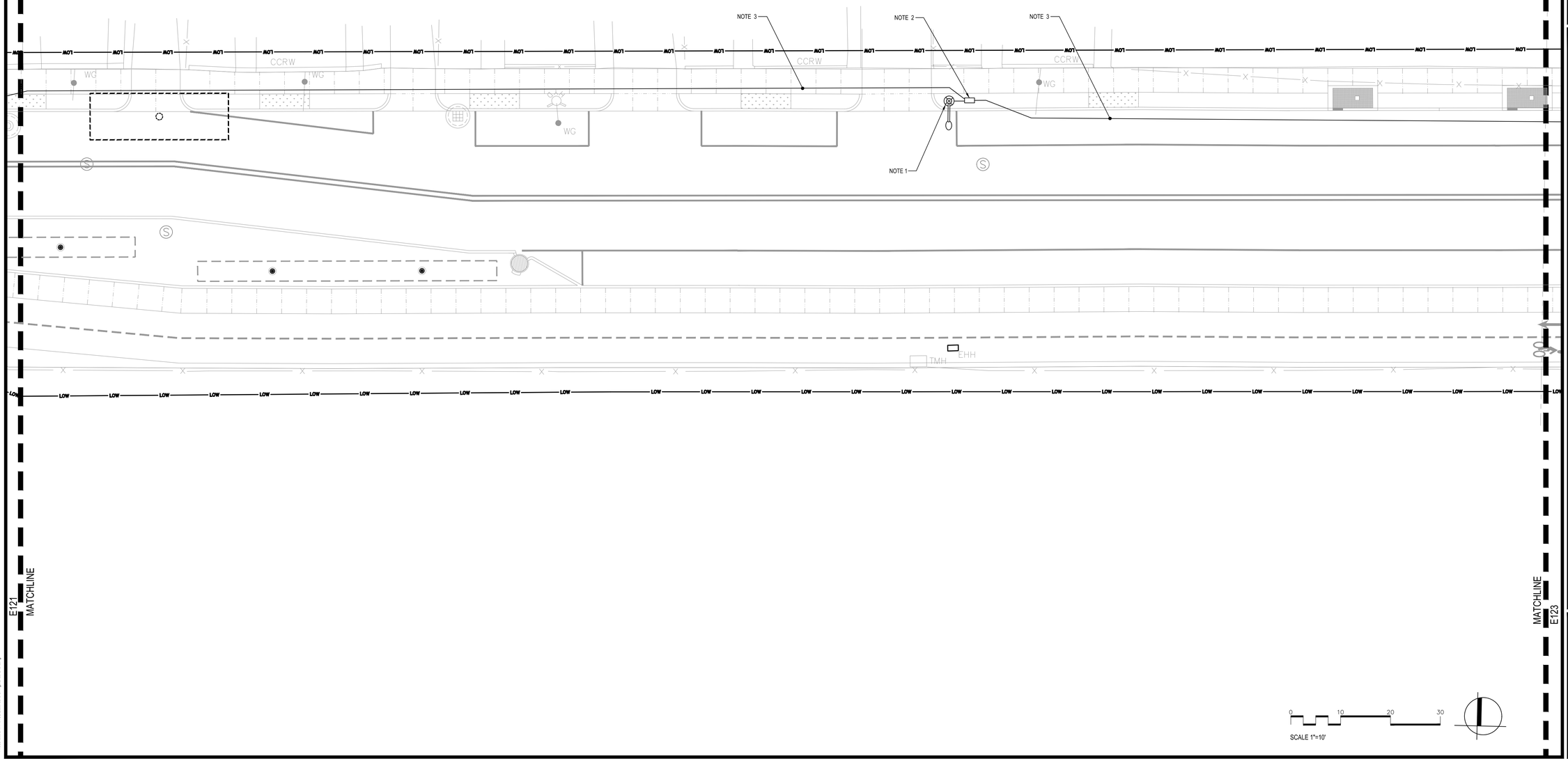

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Reviewed By: DB
Approved By: ZB

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W&S File No.:

Drawing Title:

ELECTRICAL SITE ENLARGEMENT PLAN

Sheet Number:

E122

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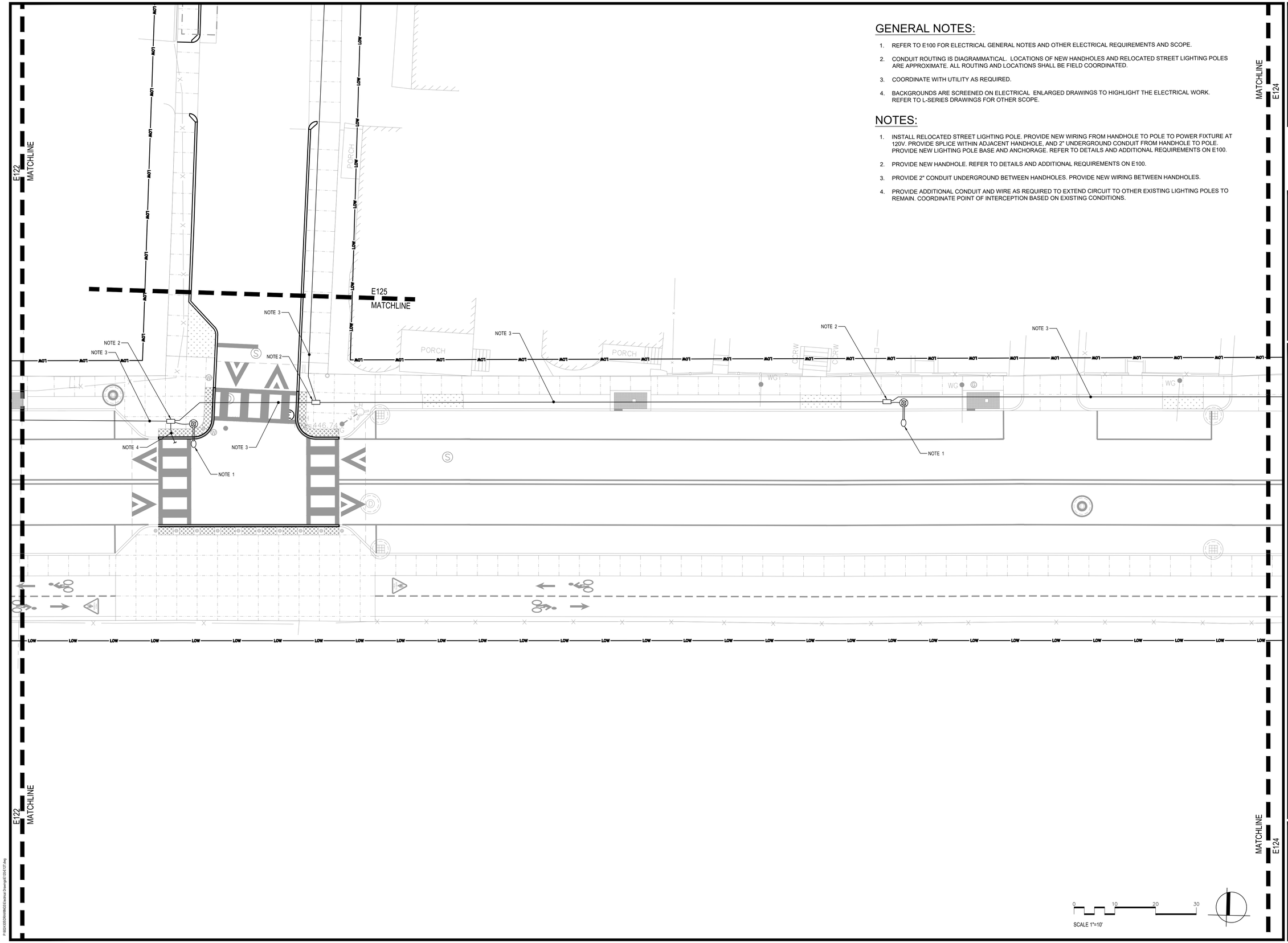

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Project: ENDICOTT AND BIGELOW COMPLETE STREETS

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5-15-25

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Reviewed By: DB
Approved By: ZB

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W&S File No.:

Drawing Title:

ELECTRICAL SITE ENLARGEMENT PLAN

Sheet Number:

E123

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GENERAL NOTES:

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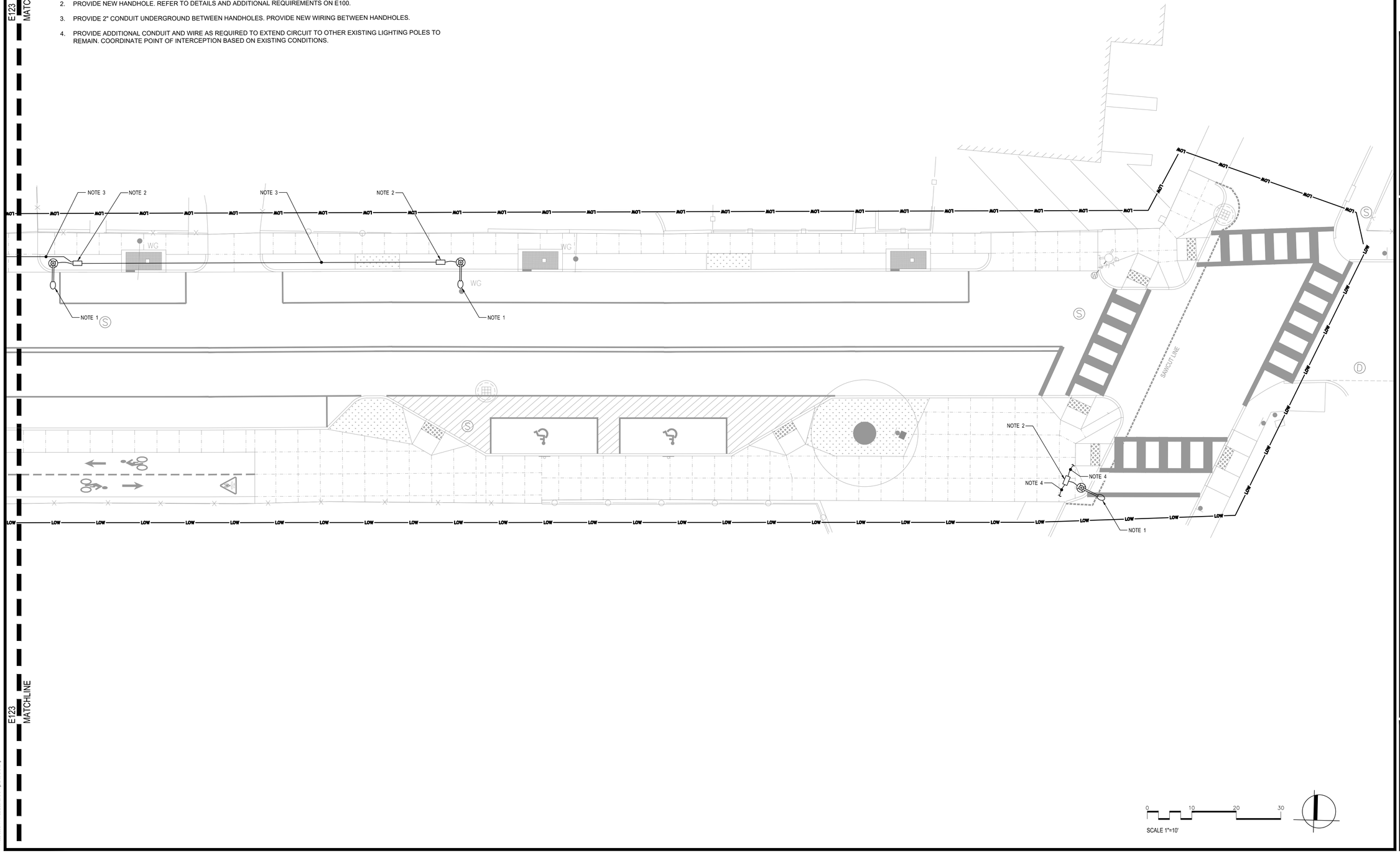

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Drawing Title:

ELECTRICAL SITE ENLARGEMENT PLAN

Sheet Number:

E124

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GENERAL NOTES:

1. REFER TO E100 FOR ELECTRICAL GENERAL NOTES AND OTHER ELECTRICAL REQUIREMENTS AND SCOPE.
2. CONDUIT ROUTING IS DIAGRAMMATICAL. LOCATIONS OF NEW HANDHOLES AND RELOCATED STREET LIGHTING POLES ARE APPROXIMATE. ALL ROUTING AND LOCATIONS SHALL BE FIELD COORDINATED.
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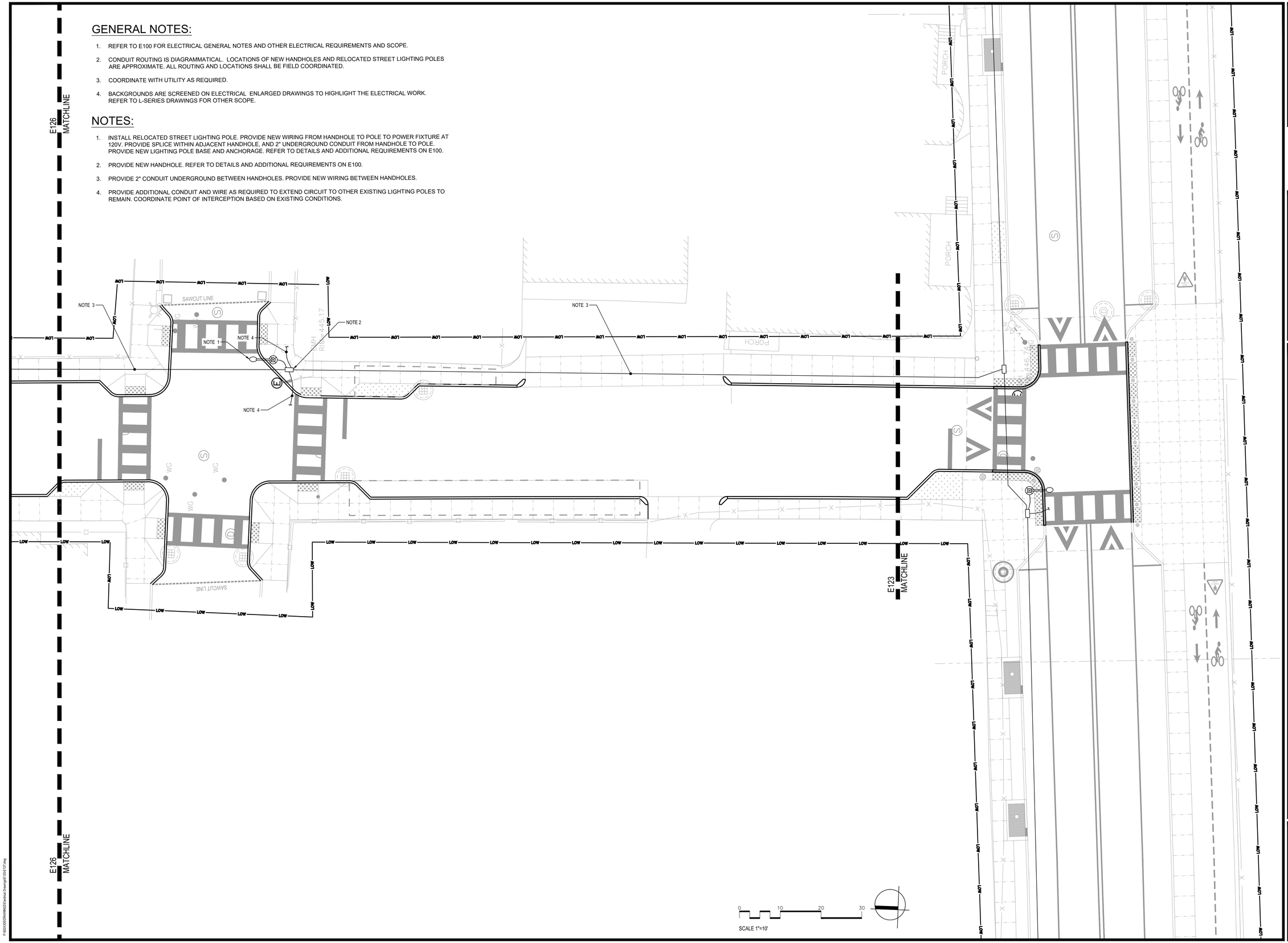

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ELECTRICAL SITE ENLARGEMENT PLAN

Sheet Number:

E125

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GENERAL NOTES:

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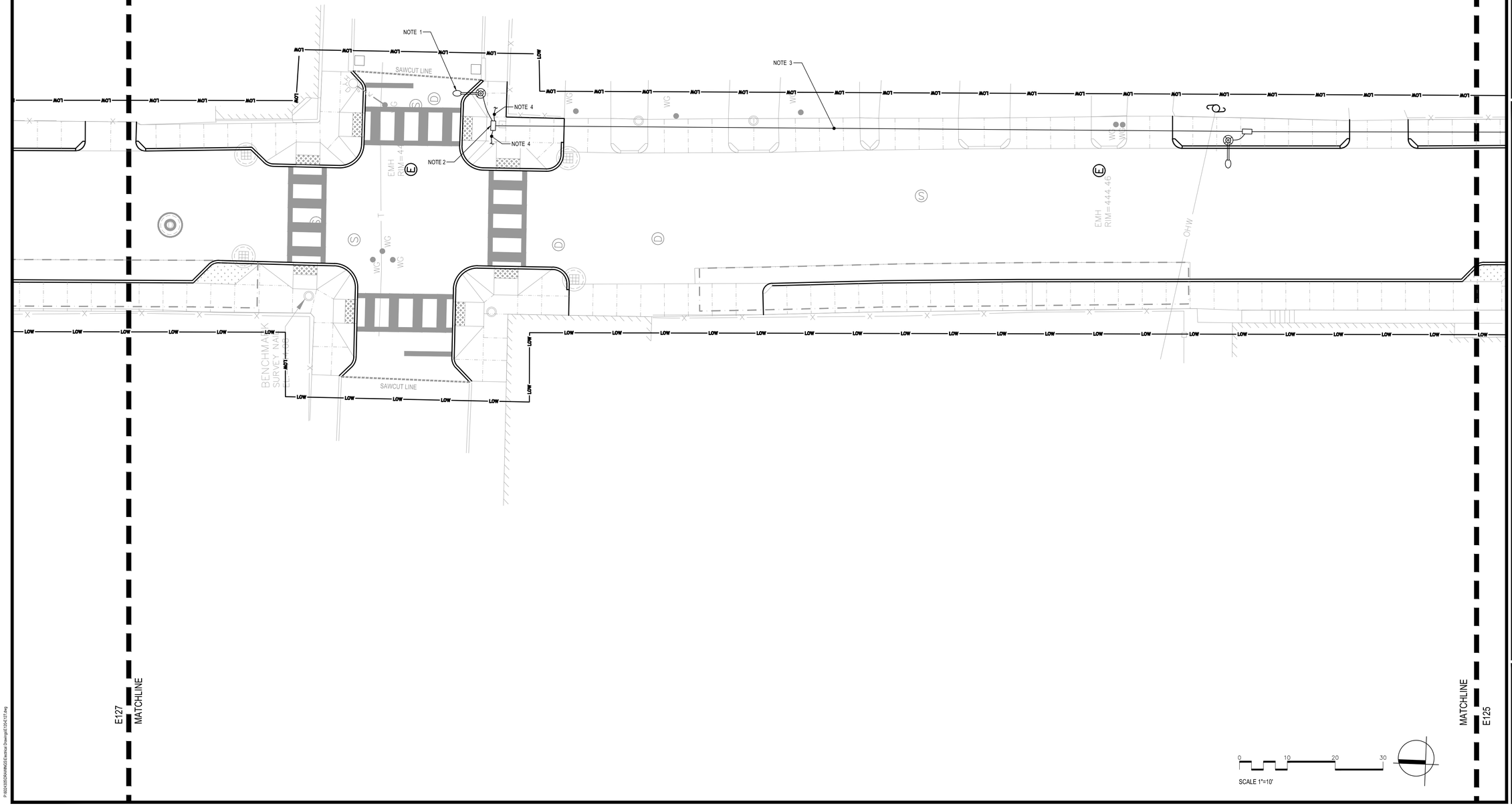

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W&S File No.:

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ELECTRICAL SITE ENLARGEMENT PLAN

Sheet Number:

E126

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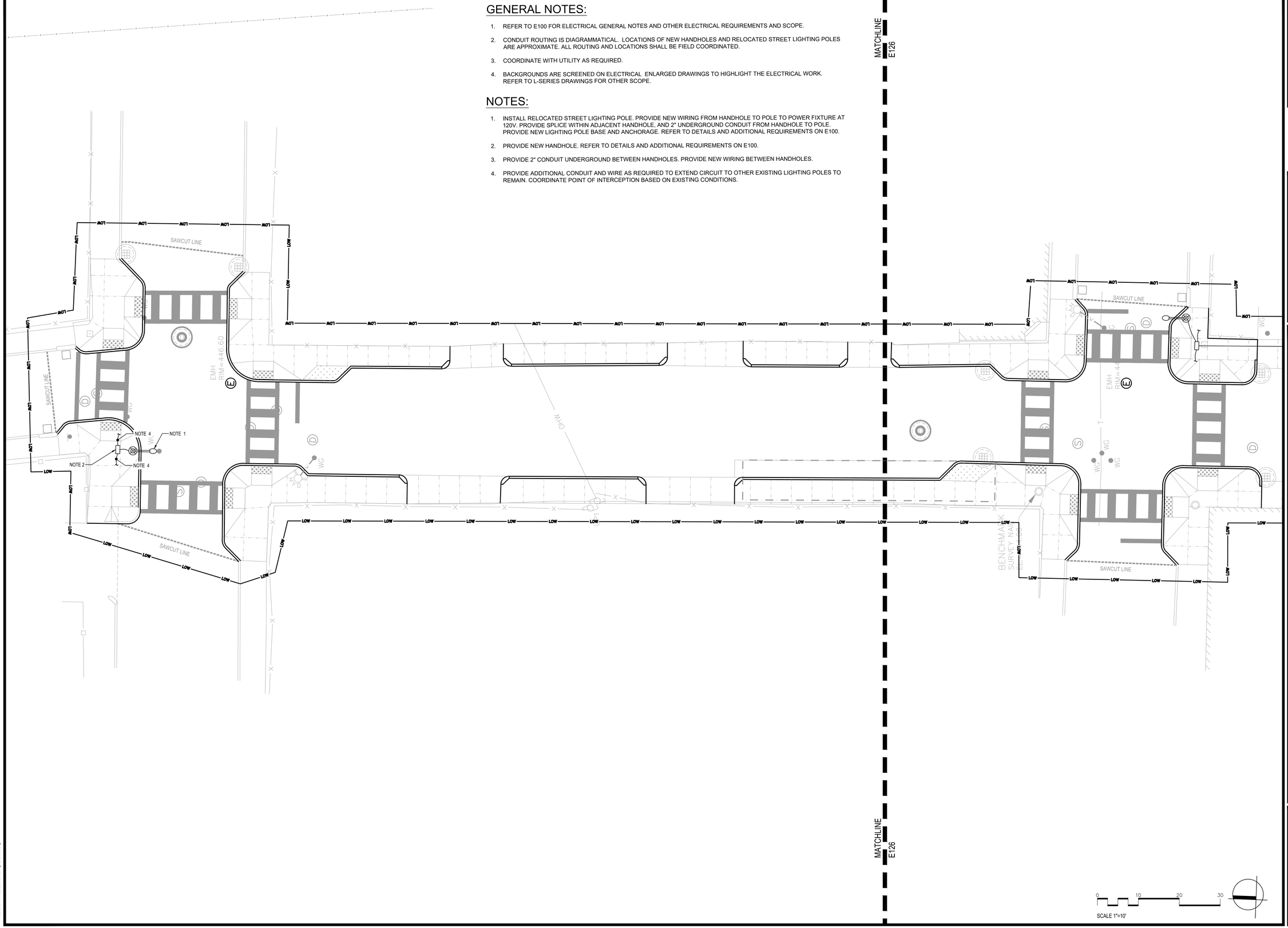

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