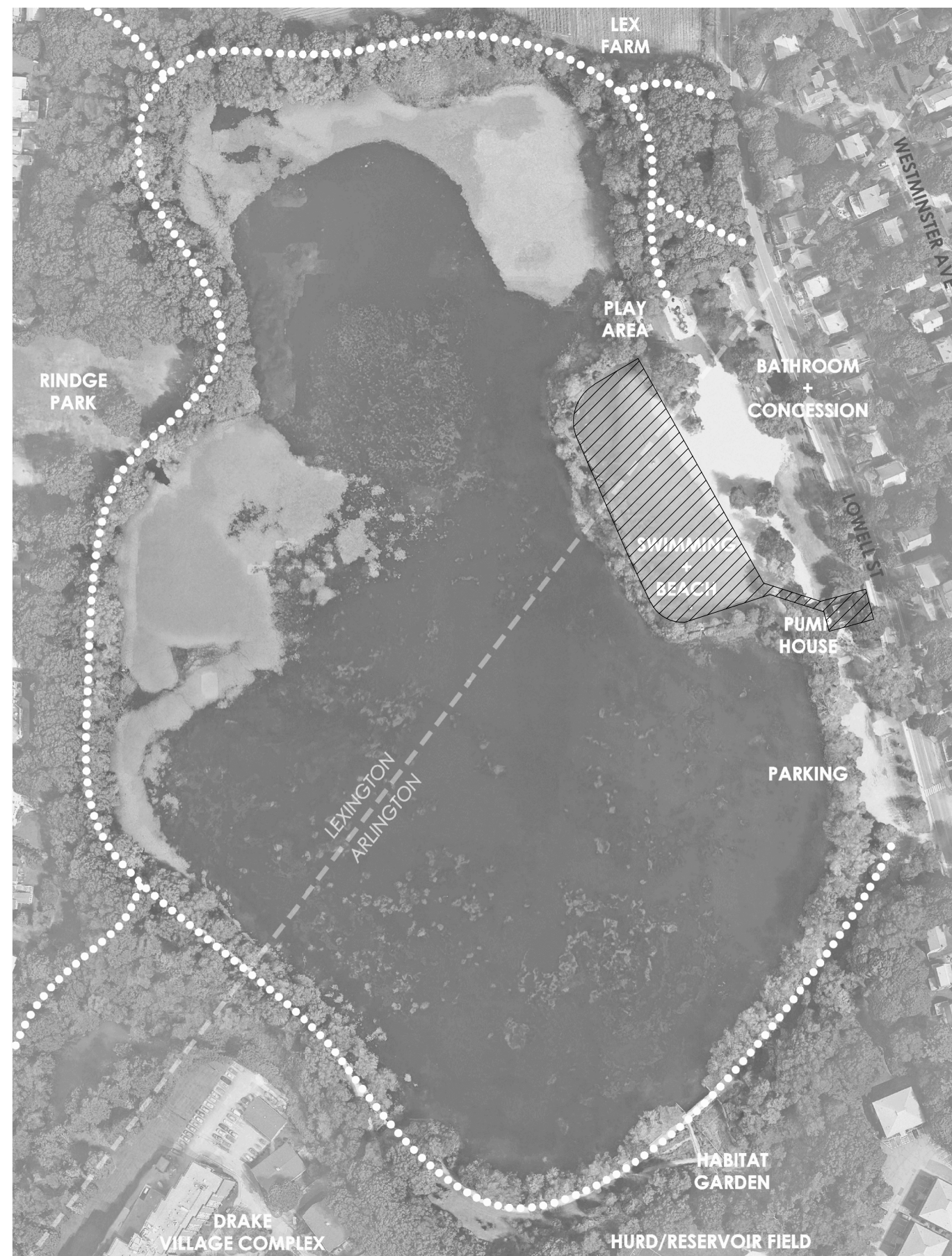




# TOWN OF ARLINGTON

## IMPROVEMENTS TO THE ARLINGTON RESERVOIR



### SHEET INDEX

G-0.01..... GENERAL NOTES

BATHING BEACH FILTRATION AND PUMP HOUSE BUILDING UPGRADES

SP-D-1.0..... RESERVOIR SITE DEMOLITION

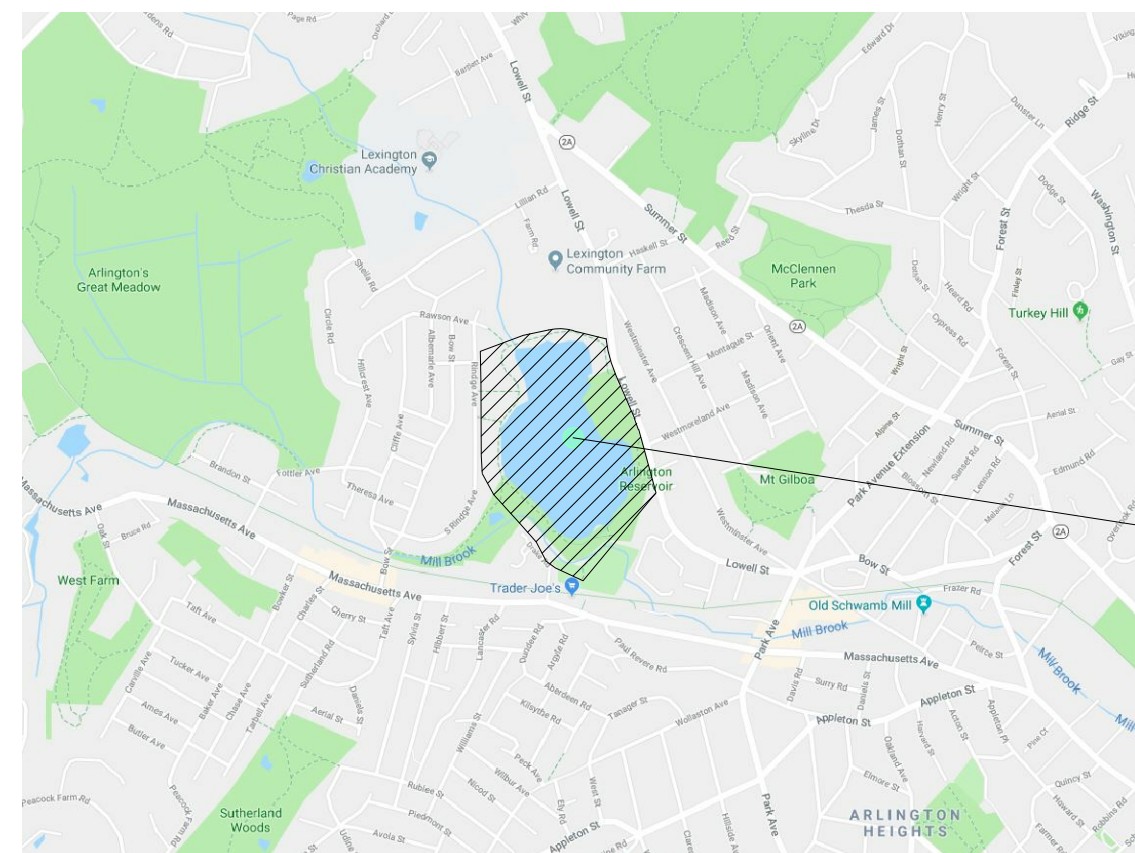
SP-1.0..... SITE LAYOUT AND TEMPORARY CONTROLS

SP-2.0..... PROPOSED PIPING PLAN

SP-2.1..... PROPOSED PIPING/SITE DETAILS

L-0.01..... PLANTING AT EXISTING PUMP HOUSE

### Locus Map



**ARLINGTON RESERVOIR**  
210 LOWELL ST,  
ARLINGTON, MA 02474

**- NOI SUBMISSION -  
REVISION #1**

**JANUARY 3, 2019**

**Prepared By**

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GENERAL NOTES

1.

PROPERTY LINES, SITE SURVEY AND TOPOGRAPHICAL INFORMATION ON THE GROUND SURVEYS PERFORMED BY WESTON & SAMPSON IN DECEMBER 2017.
2.

BEARINGS REFER TO THE MASSACHUSETTS NAD 83 STATE PLANE COORDINATE SYSTEM (MAINLAND ZONE).
3.

ELEVATIONS REFER TO THE 1988 NORTH AMERICAN DATUM (NAVD 88)
4.

REFER TO THE SURVEY LEGEND FOR GENERAL SYMBOLS. ALL BIDDERS ARE REQUIRED TO INSPECT THE PROJECT SITE IN ITS ENTIRETY PRIOR TO SUBMITTING THEIR BID, AND BECOME FAMILIAR WITH ALL CONDITIONS AS THEY MAY AFFECT THEIR BID. CONTRACTOR AND SUB-CONTRACTOR SHALL BE FAMILIAR WITH ALL DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING THE CONSTRUCTION.
5.

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.
6.

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 ENGINEER FOR RESOLUTION OF THE CONFLICT.
7.

CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE EXTENT OF EXCAVATION AND DEMOLITION REQUIRED TO RECEIVE SITE IMPROVEMENTS.
8.

ANY DISCREPANCIES OR CONFLICTS BETWEEN THE DRAWINGS AND EXISTING CONDITIONS, EXISTING CONDITIONS TO REMAIN, TEMPORARY CONSTRUCTION AND PERMANENT CONSTRUCTION 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.
9.

ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE GENERAL CONTRACTOR ON "AS BUILT" DRAWINGS.
10.

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.
11.

ALL WORK SHOWN ON THE PLANS AS BOLD SHALL REPRESENT PROPOSED WORK. THE TERM "PROPOSED (PROP)" INDICATES WORK TO BE CONSTRUCTED USING NEW MATERIALS.
12.

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.
13.

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THEIR 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.
14.

THE CONTRACTOR SHALL SUPPLY THE OWNER WITH THE NAME OF THE OSHA "COMPETENT PERSON" PRIOR TO CONSTRUCTION.
15.

FILLING OF EXCAVATED AREAS SHALL NOT TAKE PLACE WITHOUT THE PRESENCE OR PERMISSION OF THE OWNER.
16.

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.
17.

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.
18.

NO FILLING SHALL OCCUR AROUND EXISTING TREES TO REMAIN WITHOUT THE APPROVAL OF THE OWNER OR ENGINEER.
19.

TREES AND STUMPS SHALL BE REMOVED AND DISPOSED COMPLETE BY CONTRACTOR.
20.

ALL UNSUITABLE UNCONTAMINATED EXCESS SOIL FROM CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE TOWN. REMOVAL ACTIVITIES SHALL BE ACCORDANCE WITH STATE AND LOCAL REGULATIONS AT NO ADDITIONAL COST TO THE TOWN.
21.

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 OWNER'S REPRESENTATIVE.
22.

NO FILL SHALL CONTAIN HAZARDOUS MATERIALS.
23.

CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCING IN THE LOCATIONS SHOWN ON THE PLANS.
24.

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.
25.

CONTRACTOR'S STAGING AREA MUST BE IN AREAS APPROVED BY OWNER. ANY OTHER AREAS THAT THE CONTRACTOR MAY WISH TO USE FOR STAGING MUST BE COORDINATED WITH THE OWNER.

26.

CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.
27.

THE LIMIT OF WORK SHALL BE DELINEATED IN THE FIELD PRIOR TO THE START OF SITE CLEARING OR CONSTRUCTION AND AGREED UPON WITH THE ENGINEER.
28.

HAULING OF EARTH MATERIALS TO AND FROM THE SITE SHALL BE RESTRICTED TO THE HOURS OF 7 AM TO 5 PM.
29.

ANY BOULDERS 3 CY OR SMALLER SHALL BE CONSIDERED UNDOCUMENTED FILL AND SHALL BE DISPOSED OF AT NO ADDITIONAL COST TO THE TOWN.
30.

WORK ON WEEKENDS SHALL ONLY BE CONDUCTED IF PRIOR WRITTEN PERMISSION IS PROVIDED BY THE TOWN.
31.

NO TRUCKS LEFT IDLING ON TOWN STREETS DURING CONSTRUCTION. CONSTRUCTION TRAFFIC AT NO TIME SHALL IMPEDE FLOW OF RESIDENT TRAFFIC.

DESIGN CODE COMPLIANCE:

NATIONAL ELECTRICAL CODE(NFPA70).....2011  
MASSACHUSETTS BUILDING CODE - 9TH EDITION.....2015  
248 CMR 10, MASSACHUSETTS FUEL GAS AND PLUMBING CODE.....2017  
527 CMR 12, MASSACHUSETTS ELECTRICAL CODE.....2017  
VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT.....2008  
AMERICAN NATIONAL STANDARDS FOR PUBLIC POOLS - ANSI/NSPI-1.....2014  
105 CMR 435.00 MASSACHUSETTS MINIMUM STANDARDS FOR SWIMMING POOLS.....1998

ENGINEER SEAL:

1.

THESE DRAWINGS HAVE BEEN PREPARED FOR EXCLUSIVE USE FOR THE CLIENT AND ARE NOT INTENDED FOR ANY OTHER PURPOSE. TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS MEET THE REQUIREMENTS SET FORTH BY THE MASSACHUSETTS STATE CODES.
2.

THE FILTRATION AND RECIRCULATION SYSTEM THAT IS INCORPORATED INTO THESE DRAWINGS MUST BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE APPROVED DRAWINGS. ALL CHANGES MUST HAVE WRITTEN APPROVAL FROM WESTON & SAMPSON PRIOR TO SUCH CHANGE OR ALTERATION BEING IMPLEMENTED.
3.

ONLY DRAWINGS FROM WESTON & SAMPSON THAT ARE MARKED "FOR CONSTRUCTION" AND WITH THE DOH APPROVAL NUMBERS AND APPROVAL DATES AFFIXED SHALL BE USED FOR THE FILTRATION AND RECIRCULATION SYSTEM CONSTRUCTION IMPLEMENTATION.
4.

THE ENGINEER SEAL AFFIXED TO THESE DRAWINGS IS LIMITED TO HYDRAULICS.
5.

CONTRACTOR IS RESPONSIBLE FOR STAMPING BACKWASH TANKS BY A MASSACHUSETTS PROFESSIONAL ENGINEER.

GENERAL START UP REQUIREMENTS:

1.

CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE BALANCING OF THE WATER, AND STARTING UP THE EQUIPMENT, UNTIL FORMAL ACCEPTANCE BY OWNER.
2.

CONTRACTOR SHALL PROVIDE DETAIL INSTRUCTIONS ON OPERATING THE EQUIPMENT, AND SHALL VIDEO TAPE THE ENTIRE TRAINING SESSION AND PROVIDE PERMANENT SIGNAGE ON VALVE, FILTER, AND SYSTEM OPERATION.

COORDINATION NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE FOLLOWING ISSUES WITH THE GENERAL CONTRACTOR;

- CONNECT ALL METALLIC ITEMS FOUND WITHIN THE BOUNDS OF THE EQUIPMENT BOND, INTO THE EQUIPOTENTIAL BOND.
- CONFIGURE PUMP, BACKWASH PUMP, CONTROLS, UV, AND ALL LINE VOLTAGE WITH ELECTRICAL CONTRACTOR.

ELECTRIC:

1.

ALL CONDUITS SHALL BE PVC.
2.

ALL WIRING INSIDE THE FILTRATION SYSTEM EQUIPMENT AREA ROOM OR ENCLOSURE SHALL BE ENCASED IN APPROVED RIGID PVC CONDUIT.
3.

ALL ELECTRICAL WORK (GFIS, TRANSFORMERS, GROUNDING, ETC.) SHALL BE PROVIDED BY THE CONTRACTOR.
4.

ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS INCLUDING GROUNDING OF METAL EQUIPMENT ARE TO MEET OR EXCEED THE NATIONAL ELECTRICAL CODE, LATEST EDITION. ELECTRICALLY BOND AND GROUND EACH METALLIC DEVICE WITH A #8 SOLID COPPER "THWN" INSULATED GROUND WIRE IN ACCORDANCE WITH THE NEC REQUIREMENTS (AS WELL AS LOCAL CODES) APPLY SCOTCHCAST #2135 POTTING KIT (BY 3M) AT EACH GROUNDING LUG, EQUIPMENT ATTACHMENT, AND REBAR JUNCTURE. ALL GROUND WIRES SHALL BE HIDDEN OR DISGUISED.

PIPING INSTALLATION REQUIREMENTS:

1.

ALL PIPING SHALL BE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE. ALL PIPING SHALL BE STAMPED WITH THE MANUFACTURER'S MARKING THAT IT IS APPROVED FOR USE WITH POTABLE WATER (NSF-PW). PLASTIC PIPE EXPOSED TO SUNLIGHT SHALL BE COATED WITH EPOXY PAINT FOR UV PROTECTION.
2.

THE PIPING DIAGRAMS AND SIZES SHOWN IN THESE DRAWINGS SHALL BE FOLLOWED WITHOUT EXCEPTION UNLESS WRITTEN AUTHORIZATION FROM THIS ENGINEER IS PROVIDED.
3.

THE PIPING SYSTEMS INDICATED IN THESE DRAWINGS ARE SHOWN IN A DIAGRAMMATIC VIEW ONLY. THE CONTRACTOR SHALL PROVIDE ALL PIPING AND FITTINGS REQUIRED FOR THE COMPLETE INSTALLATION.
4.

THE CONTRACTOR SHALL PROVIDE AND COMPLY WITH ALL PIPING INSPECTIONS THAT MAY BE REQUIRED BY ENGINEER AND OWNER.
5.

THE CONTRACTOR SHALL PROVIDE PIPE HANGER DETAILS TO THE ENGINEER FOR WRITTEN APPROVAL PRIOR TO THE INSTALLATION.
9.

PIPING PRESSURE TESTING SHALL BE COORDINATED BY THE SWIMMING AREA CONTRACTOR AND SHALL BE INCLUDED IN THE COST. THE ENGINEER SHALL BE ONSITE DURING PRESSURE TESTING. ALL PIPING SHALL CONFORM TO ACCEPTED WORKMANSHIP STANDARDS AND SHALL BE TESTED AS FOLLOWS:
- i.

ALL PIPING MUST BE TESTED BY MEANS OF WATER PRESSURE.
- ii.

GRAVITY PIPING SHALL BE TESTED TO 10 PSI.

- a.

GRAVITY PIPING SHALL BE DEFINED AS DRAINAGE PIPING OR SENSING PIPING, OR ANY PIPING WHICH SHALL NOT HAVE FLOW VELOCITIES THAT EXCEED 3 FEET PER SECOND.
- iii.

PRESSURE PIPING SHALL BE TESTED TO 50 PSI.
- a.

PRESSURE PIPING SHALL BE DEFINED AS PUMP SUCTION PIPING, AND ANY PIPING AFTER THE PUMP DISCHARGE, OR ANY PIPING WHICH WILL HAVE FLOW VELOCITIES EXCEEDING 3 FEET PER SECOND.
10.

EXTEND ALL PIPING TO ITS SPECIFIC FILTRATION SYSTEM. DO NOT CONNECT THE PIPING TO THE FILTRATION SYSTEM UNTIL THE PRESSURE-TEST IS COMPLETED, APPROVED, AND REMOVED FROM THE PIPING.

DEFINITIONS:

1.

CONTRACTOR: PERSON OR ENTITY AUTHORIZED TO CONSTRUCT, INSTALL AND OPERATE A COMMERCIAL POOL AND THEIR APPURTENANCES, AND MAINTAIN PROPER LICENSES TO DO SO.
2.

CRITICAL: THIS WORD DESCRIBES DIMENSIONS THAT SHALL NOT BE SUBJECT TO DEVIATION OR ERRORS FOR ANY REASON. VIOLATION OF A CRITICAL DIMENSION MIGHT SUBJECT THE FOUNTAIN TO A POTENTIAL VARIANCE ACTION OR A PERMANENT WITHHOLDING OF A FUTURE OPERATING CERTIFICATE. WESTON & SAMPSON CONSIDERS ALL DIMENSIONS CONTAINED WITH THE DRAWINGS AS VITAL; HOWEVER, THE WORD CRITICAL IS ADDED TO ATTRACT THE ATTENTION OF THE CONTRACTOR.
3.

PROVIDE: OBTAIN, PURCHASE, SUPPLY, INSTALL AND WARRANTY COMPLETELY IN ACCORDANCE WITH ALL CODES, RULES, REGULATIONS AND THE REQUIREMENTS OF THE DRAWINGS AND TECHNICAL SPECIFICATIONS.

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE
ACCOMP	ASPHALT COATED
	ACORRUGATED METAL PIPE
ARV	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BC	BITUMINOUS CONCRETE
BIT	BITUMINOUS
BLDG	BUILDING
BM	BENCH MARK
BO	BLOW OFF
BV	BUTTERFLY VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CC	CONCRETE CURB
CI	CAST IRON
℄	CENTERLINE
CL	CEMENT LINED
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CU FT	CUBIC FEET
CY	CUBIC YARD
D	STORM DRAIN
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DMH	DRAIN MANHOLE
DWG	DRAWING
EA	EACH
EF	EACH FACE
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EXIST	EXISTING
FLG	FLANGE
FT	FEET, FOOT
G	NATURAL GAS
GR	GRANITE
GALV	GALVANIZED
HC	HOUSE CONNECTION
GC	GRANITE CURB
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HYD	FIRE HYDRANT
INV	INVERT
ID	INSIDE DIAMETER
IP	IRON PIPE
LB	POUND
LF	LINEAR FEET
LS	LUMP SUM
MAX	MAXIMUM
MB	MAIL BOX
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
N	NORTH
NE	NORTH EAST
NW	NORTH WEST
NF	NOT FOUND
NO OR #	NUMBER
OD	OUTSIDE DIAMETER
PCCP	PRESTRESSED CONCRETE
PE	PLAIN END, POLYETHYLENE
℄	PROPERTY LINE
PL	PLATE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
RQD	ROCK QUALITY
S	SEWER
SE	SOUTH EAST
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SPEC	SPECIFICATIONS
SQ FT	SQUARE FEET
SS	SEWER SERVICE
STA	STATION
STL	STEEL
SW	SIDEWALK, SOUTH WEST
T	HYDROSTATIC THRUST, TELEPHONE
TBM	TEMPORARY BENCH MARK
TH	THRESHOLD
THK	THICK (NESS)
TYP	TYPICAL
UP	UTILITY POLE
VC	VITRIFIED CLAY
VERT	VERTICAL
W	WATER, WEST
W/	WITH
W/O	WITHOUT

THE ELECTRICAL CONTRACTOR SHALL GROUND AND BOND ALL ELECTRICAL EQUIPMENT AND PIPING IN ACCORDANCE WITH NATIONAL ELECTRIC CODE REQUIREMENTS, ARTICLE 680, THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COPY OF ALL APPLICABLE LOCAL STATE ELECTRICAL CODE REGULATIONS.

Project:

IMPROVEMENTS TO THE ARLINGTON RESERVOIR



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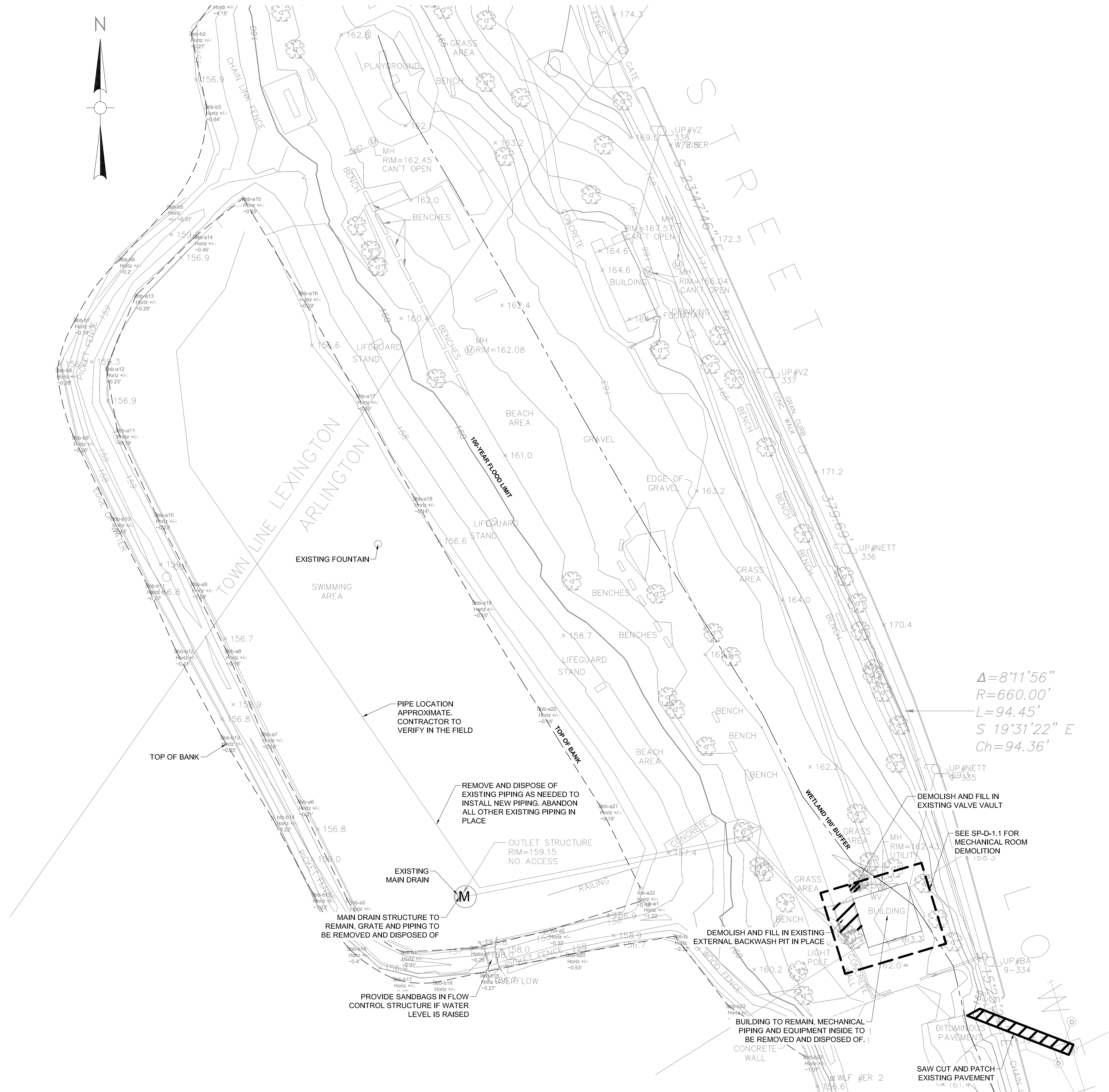
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RESERVOIR AREA

SCALE: 1" = 30'

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RESERVOIR  
SITE  
DEMOLITION

Sheet Number:

SP-D-1.0



P:\MA\_Batteries\Batteries\Arlington - Bathing Beach\CA02\T0-Current\_S&P\_Sheets\SP-1.0 SITE LAYOUT.dwg

LEGEND

SUCTION PIPING

RETURN PIPING

TOP OF BANK

WETLAND 100-FT BUFFER

EROSION CONTROLS

TREE PROTECTION, TYP.

TEMPORARY FENCING

100-YEAR FLOOD ZONE

RESERVOIR PLAN VIEW

SCALE: 1" = 30'

NOTE: CONTRACTOR SHALL PERFORM ALL TASKS REQUIRED BY THE ARLINGTON CONSERVATION COMMISSION, FOUND IN THE ORDER OF CONDITIONS.

1 TEMPORARY CHAIN LINK FENCE  
SCALE: NOT TO SCALE

2 STRAW WATTLE  
SCALE: NOT TO SCALE

3 TREE PROTECTION  
SCALE: NOT TO SCALE

4 DEWATERING BASIN  
SCALE: NOT TO SCALE

5 SEDIMENT CONTROL SACK  
SCALE: NOT TO SCALE

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SITE LAYOUT AND TEMPORARY CONTROLS

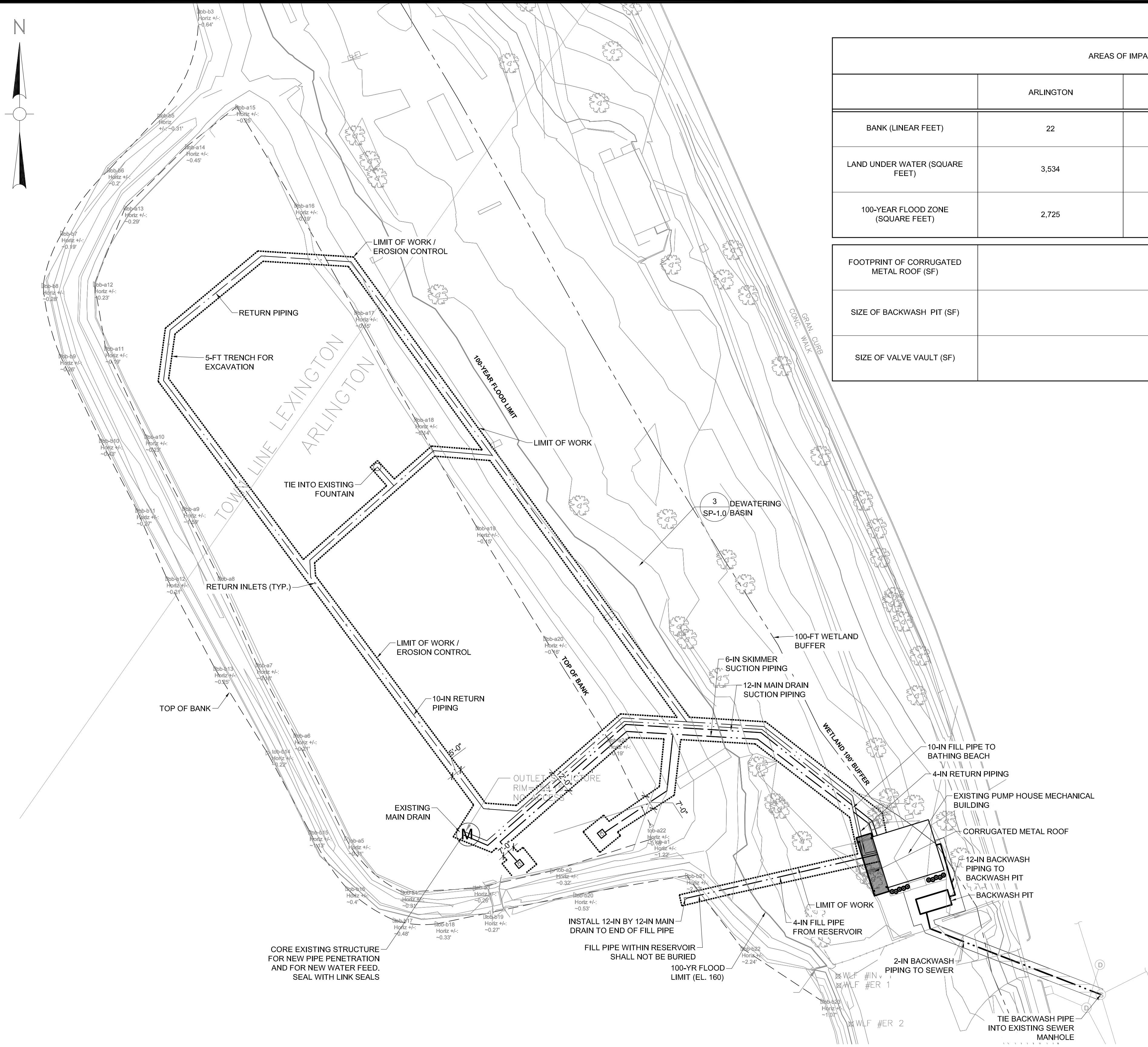
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P:\MA\_Batter\GIServer\Aerials\Arlington - Bathing Beach\CAD\T0-Current\_S&P\Sheets\SP-2.0 PROPOSED PIPING PLAN.dwg



BATHING BEACH PLAN VIEW - SITE PIPING

SCALE: 1" = 30'

NOTE: ALL WORK DONE WITHIN THE WETLAND AREA SHALL FOLLOW THE PIPE ALIGNMENT.

LEGEND	
	SUCTION PIPING
	RETURN PIPING
	LIMIT OF WORK
	TOP OF BANK
	WETLAND 100-FT BUFFER
	100-YEAR FLOOD ZONE

AREAS OF IMPACT			
	ARLINGTON	LEXINGTON	ENTIRE PROJECT
BANK (LINEAR FEET)	22	5	27
LAND UNDER WATER (SQUARE FEET)	3,534	1,022	4,556
100-YEAR FLOOD ZONE (SQUARE FEET)	2,725	196	2,921

FOOTPRINT OF CORRUGATED METAL ROOF (SF)	252		
SIZE OF BACKWASH PIT (SF)	185		
SIZE OF VALVE VAULT (SF)	30		

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PROPOSED PIPING PLAN

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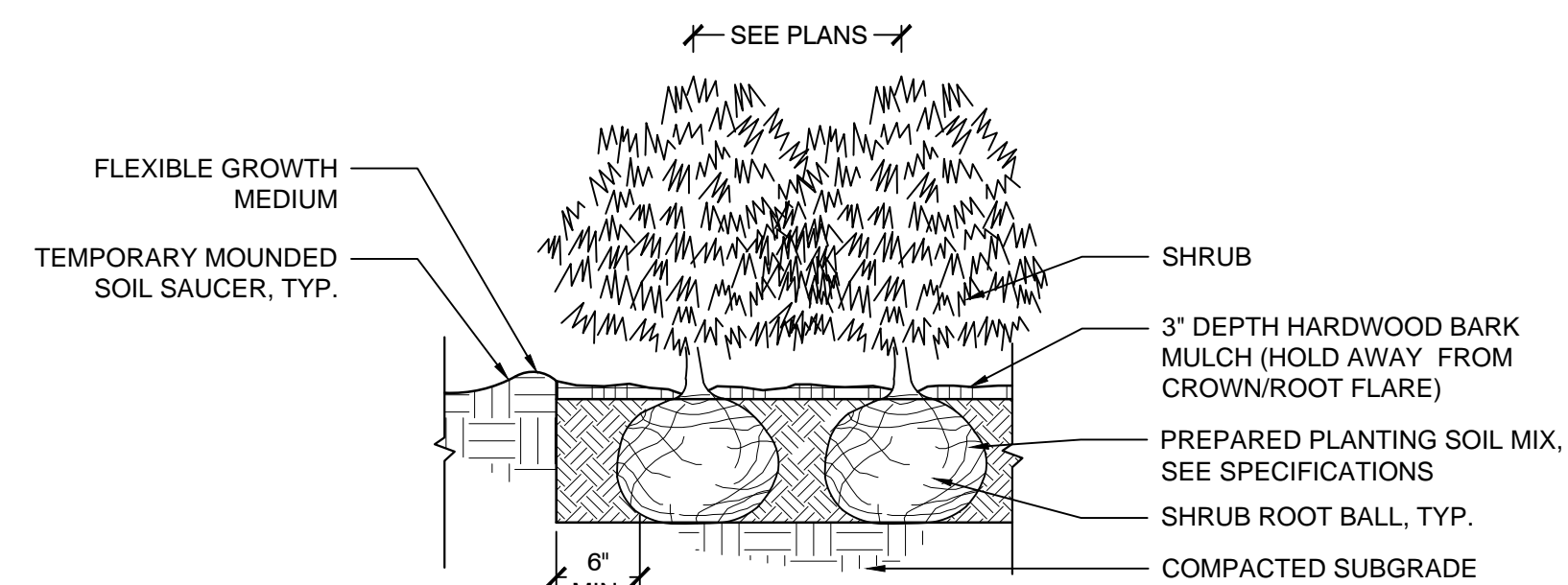


SHRUBS					
ABRV.	QTY	BOTANICAL NAME	COMMON NAME	CONT.	NOTES
CA	10	CORNUS ALTERNIFOLIA	PAGODA DOGWOOD	5' HT. B&B	

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 UNCONTAMINATED EXCESS SOIL FROM CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE TOWN. REMOVAL ACTIVITIES SHALL BE ACCORDANCE WITH STATE AND LOCAL REGULATIONS AT NO ADDITIONAL COST TO THE TOWN.
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. THE CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN. CONTRACTOR SHALL TAKE DUE CARE TO PREVENT INJURY TO TREES DURING CLEARING OPERATIONS.
7. THE STORAGE OF MATERIALS AND EQUIPMENT WILL BE PERMITTED AT LOCATIONS DESIGNATED BY OWNER OR OWNER'S REPRESENTATIVE. PROTECTION OF STORED MATERIALS AND EQUIPMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

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. THE LAYOUT OF SITE AMENITIES AND FENCES MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. 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.
4. 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.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS OF ALL PROPOSED FENCES, GATES.

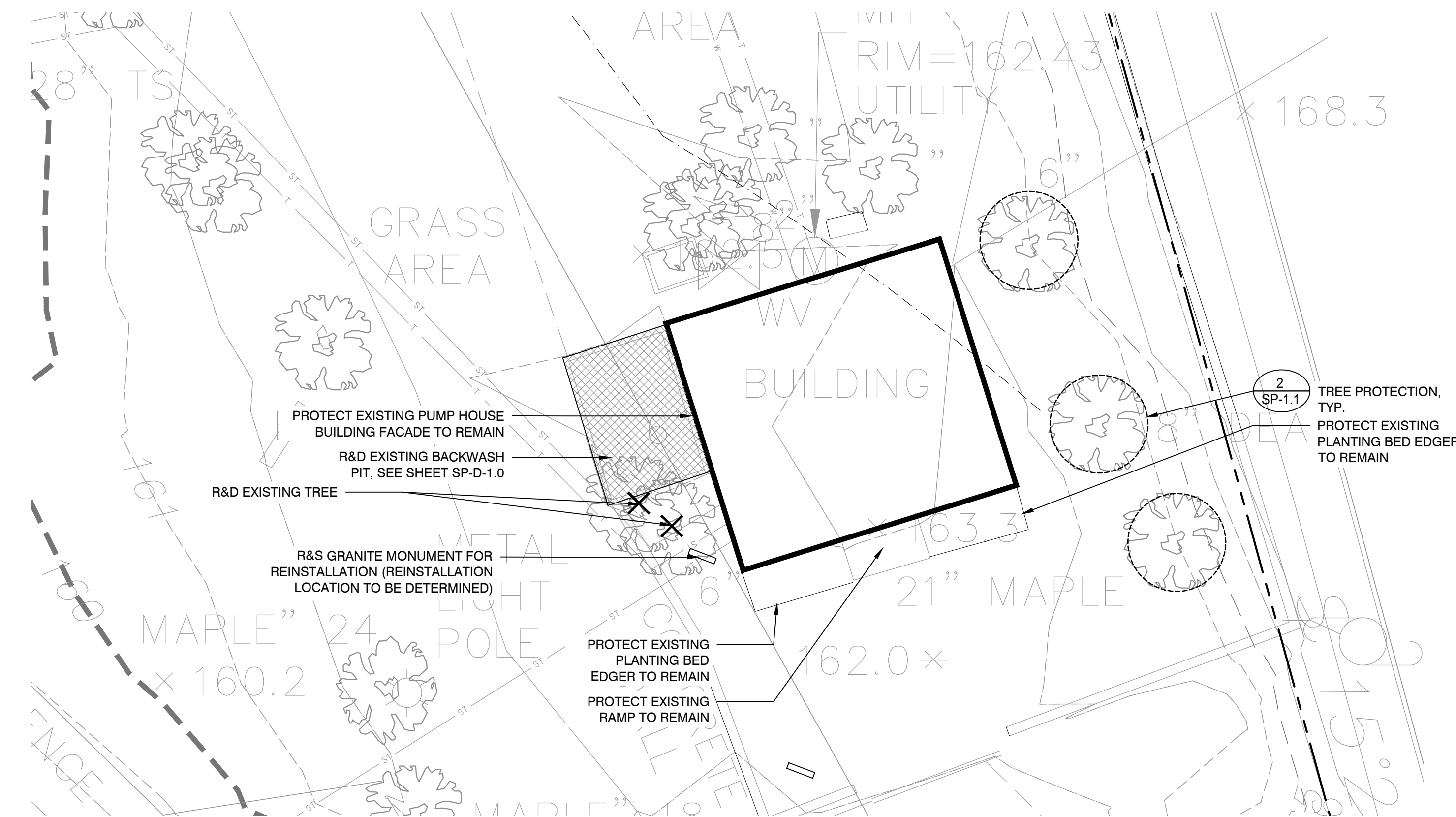
1. COORDINATE ALL PLANTING ACTIVITIES WITH THE SCOPE OF WORK CALLED FOR BY THE PLANS ENCOMPASSED BY THIS CONTRACT.
2. ALL PLANT MATERIAL SHALL BE TAGGED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. THE CONTRACTOR SHALL IDENTIFY PROPOSED PLANT LOCATIONS PRIOR TO PLACEMENT WITH A STAKE AND COORDINATE WITH THE OWNER'S REPRESENTATIVE TO MAKE ANY NECESSARY ADJUSTMENTS BEFORE ACTUAL PLACEMENT. THE CONTRACTOR SHALL NOT PLACE NEW TREES DIRECTLY UNDER OVERHEAD WIRES OR ABOVE UTILITY LINES.
4. ALL EXISTING TREES TO REMAIN AND BE PROTECTED ARE TO BE PRUNED FOR CROWN CLEANING AND DEADWOOD REMOVAL.
5. PLANT LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY AND SHALL BE APPROVED IN THE FIELD BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.



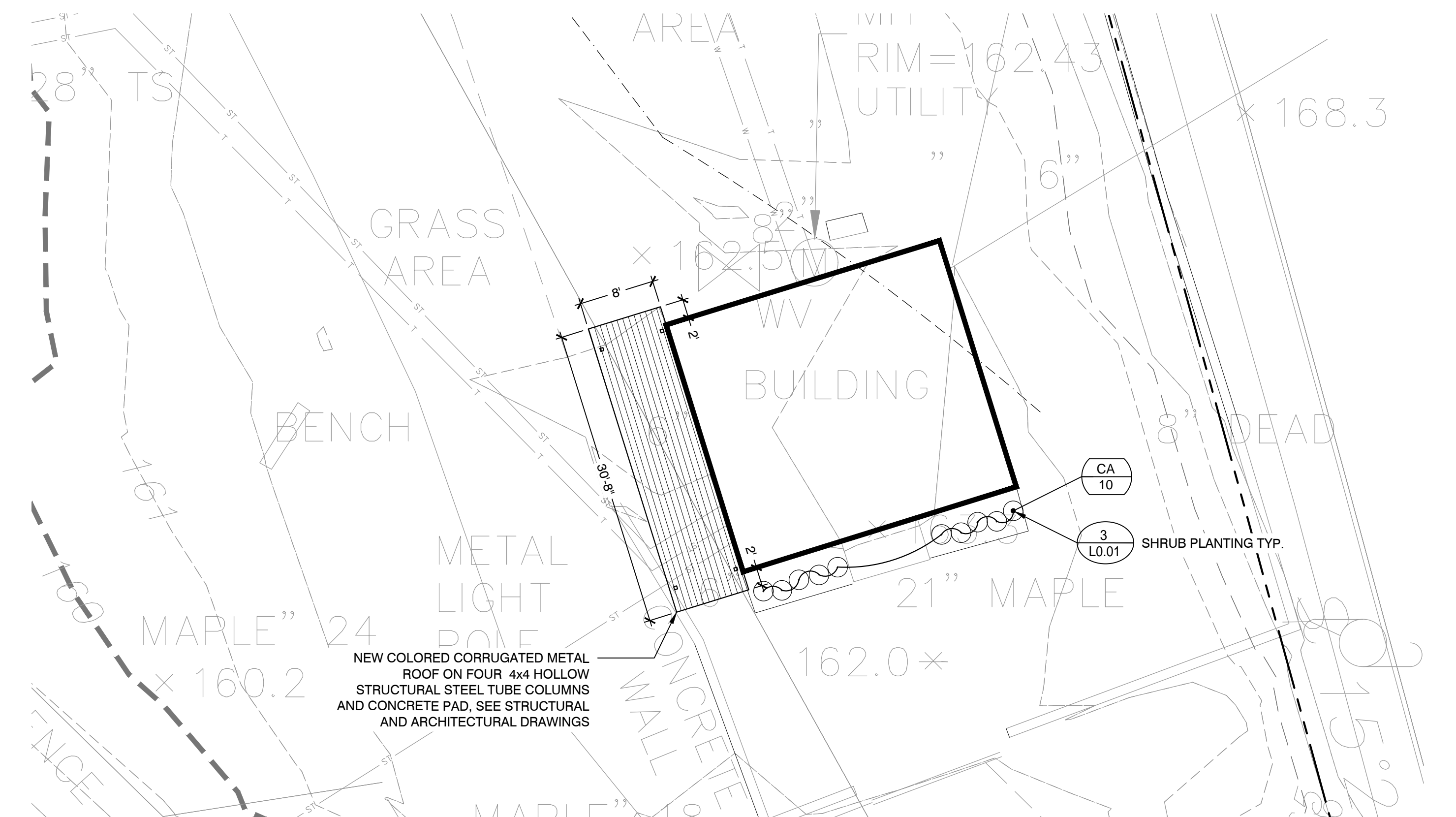
1. ALL MULCH MUST BE DARK IN COLOR. PROVIDE SAMPLE PRIOR TO INSTALLATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.

### 3 SHRUB PLANTING

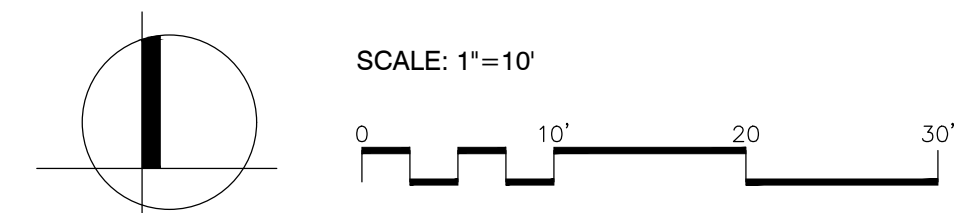
SCALE: NTS



**1** PUMP HOUSE PLANTING SITE PREPARATION & DEMOLITION PLAN  
SCALE: 1" = 10'-0"



2 PUMP HOUSE LAYOUT, MATERIALS & PLANTING PLAN  
SCALE: 1" = 10'-0"



# L0.01