TOWN OF ARLINGTON

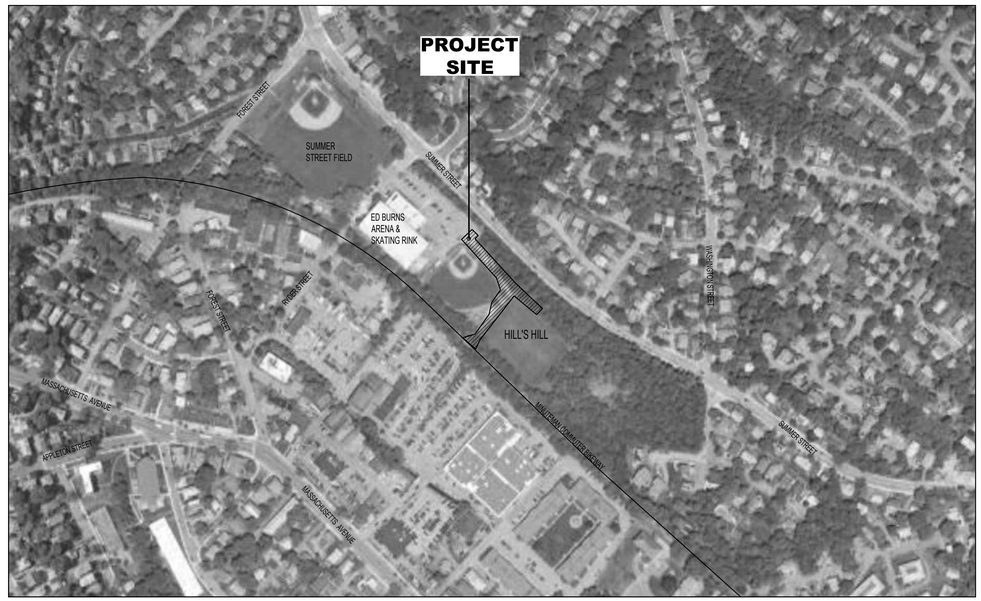
# ARLINGTON - HILL'S HILL PLAYGROUND ADA WALKWAY

ARLINGTON, MASSACHUSETTS

## 100% CONSTRUCTION DRAWINGS

DRAWING LIST






**LOCATION MAP**
**Hill's Hill**
**Arlington, MA**

## PREPARED BY:


LANDSCAPE ARCHITECT:
Kyle Zick Landscape Architecture, Inc.
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617-451-1018 Tel
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ARLINGTON - HILL'S HILL PLAYGROUND ADA WALKWAY
ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON

| NO. | REVISION | DATE |
|---|---|---|


kzla
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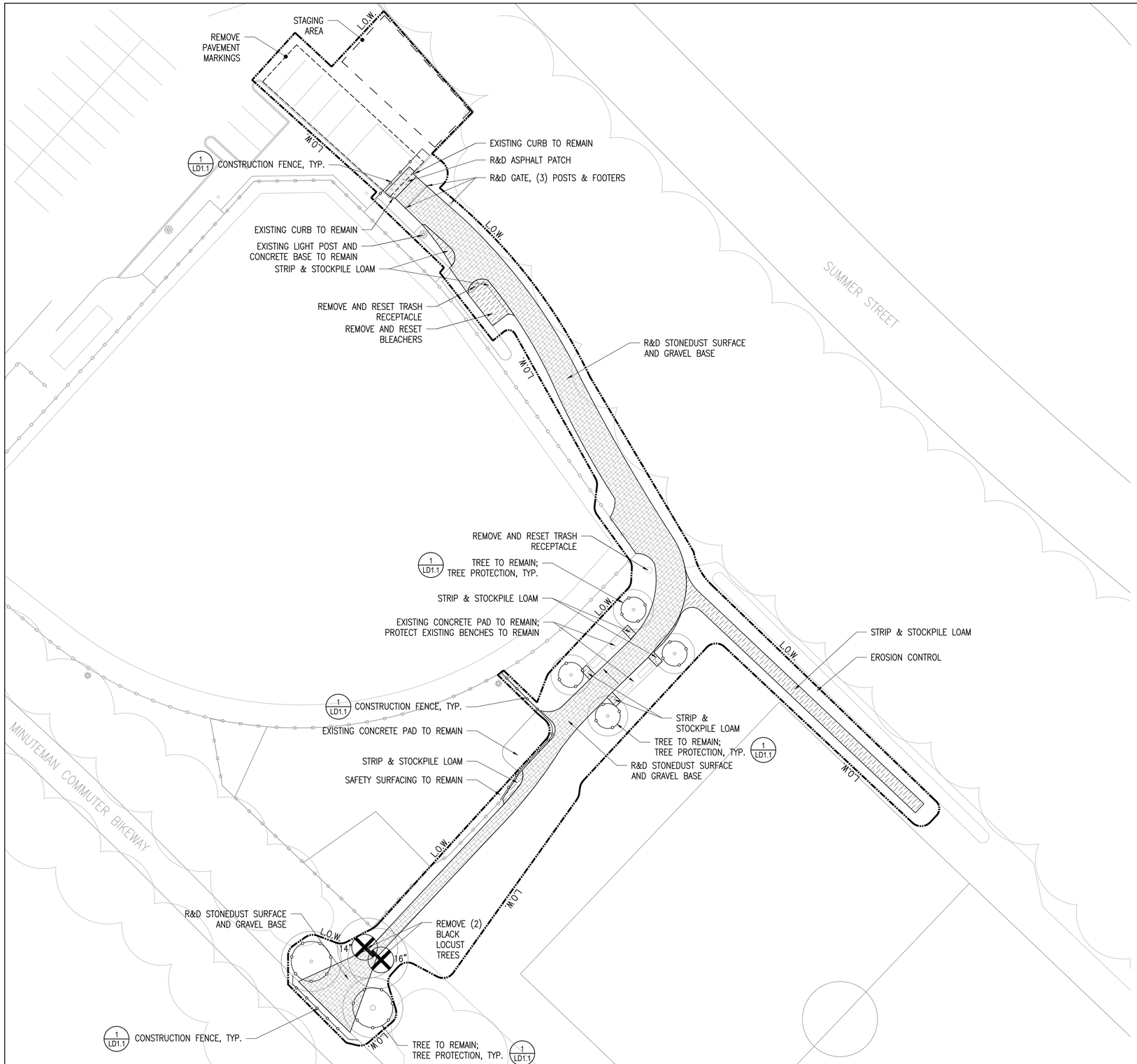
MASSACHUSETTS · KYLE S. ZICK · No. 1169 · REGISTERED LANDSCAPE ARCHITECT

100% CONSTRUCTION DRAWINGS

Job Number:
Project: HILL'S HILL PLAYGROUND ADA WALKWAY
Drawn By: TH Checked By: KZ
Date: DECEMBER 10, 2020
Scale: N/A
Drawing Title:

COVER SHEET

C




## LEGEND

- L.O.W. — LIMIT OF WORK
- CONSTRUCTION FENCE — 1 LD1.1
- TREE PROTECTION –FENCING, TYP. — 1 LD1.1
- 24" — REMOVE TREE, TYP. (SIZE, DBH)
- LIGHT POST TO REMAIN, TYP.
- R&D REMOVE AND DISPOSE
- R&S REMOVE AND STOCKPILE
- R&R REMOVE AND RESET
- REMOVE AND DISPOSE STONE DUST AND GRAVEL BASE
- REMOVE AND DISPOSE ASPHALT PATCH, TYP.
- STRIP AND STOCKPILE LOAM, TYP.

NOTE: PROTECT STOCKPILED MATERIALS DURING CONSTRUCTION

## SITE PREPARATION AND DEMOLITION NOTES:

1. PRIOR TO COMMENCING ANY EXCAVATION WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES PROMOTED BY RESPECTIVE UTILITY COMPANIES. THE DIG SAFE TELEPHONE NUMBER FOR MASSACHUSETTS IS 811.
2. THE CONTRACTOR SHALL CONTACT THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
3. ALL REFUSE, DEBRIS, AND MISCELLANEOUS ITEMS TO BE REMOVED, THAT ARE NOT TO BE STOCKPILED FOR LATER USE ON THE PROJECT OR DELIVERED TO THE OWNER, SHALL BE LEGALLY DISPOSED OF OFF–SITE BY THE CONTRACTOR.
4. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS APPLICABLE, AND REUSED AS DIRECTED BY THE OWNER OR LEGALLY DISPOSED OF OFF–SITE BY CONTRACTOR.
5. CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL TO FULL DEPTH WITHIN LIMIT OF GRADING BEFORE COMMENCING EXCAVATION AND GRADING OPERATIONS. TOPSOIL SHALL NOT BE REMOVED FROM THE SITE, UNLESS APPROVED BY THE LANDSCAPE ARCHITECT.
6. AT ALL LOCATIONS WHERE CONCRETE PAVEMENT OR BITUMINOUS CONCRETE ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE.
7. BEFORE ANY TREE CLEARING OR PRUNING IS DONE, THE CONTRACTOR SHALL ARRANGE A CONFERENCE ON THE SITE WITH THE LANDSCAPE ARCHITECT AND ARBORIST TO IDENTIFY TREES TO BE PRUNED, PROTECTED OR REMOVED. DO NO CLEARING OR PRUNING WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND PLANTS DESIGNATED TO REMAIN FOR THE LENGTH OF THE CONSTRUCTION PERIOD. PROTECTION TO INCLUDE TRUNK, ROOTS, AND OVERHEAD BRANCHES. THE PLACEMENT OF PROTECTION DEVICES ADDITIONAL TO THOSE NOTED SHALL, HOWEVER, BE AT THE CONTRACTOR'S DISCRETION.
9. DAMAGE NO PLANTS TO REMAIN BY BURNING, PUMPING OF WATER, CUTTING OF LIVE ROOTS OR BRANCHES, OR BY ANY OTHER MEANS. NO PLANTS TO BE SAVED SHALL BE USED FOR CRANE STAYS, GUYS OR OTHER FASTENINGS. VEHICLES SHALL NOT BE PARKED WITHIN THE DRIP LINE OR WHERE DAMAGE MAY RESULT TO TREES TO BE SAVED. CONSTRUCTION MATERIALS SHALL NOT BE STORED BENEATH TREES TO BE SAVED.
10. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK.
11. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONDITIONS THAT ARE DUE TO CONTRACTOR OPERATIONS.
12. THE GENERAL CONTRACTOR SHALL MAINTAIN OR ADJUST TO NEW FINISH GRADE AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MANHOLES, CATCH BASINS, HAND HOLES, WATER AND GAS GATES, HYDRANTS, IRRIGATION VALVE BOXES, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.
13. THE GENERAL CONTRACTOR SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
14. ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED TO PREVENT TRACKING OF MUD ONTO PUBLIC WAYS. ANY MUD ON PUBLIC WAYS ORIGINATING FROM THE JOB SITE SHALL BE CLEANED BY THE CONTRACTOR.
15. CONTRACTOR SHALL SECURE ALL PERMITS THAT MAY BE REQUIRED FROM ALL JURISDICTIONS AFFECTED BY THIS WORK.
16. CONTRACTOR'S EQUIPMENT AND VEHICLES SHALL BE PARKED ON PAVED SURFACES ONLY. NO PARKING ON LAWN OR LANDSCAPED AREAS.
17. CONTRACTOR CAN REQUEST TO UTILIZE ADDITIONAL STAGING AREAS WITHIN THE LIMIT OF WORK. ALL STAGING AREAS, AS SHOWN ON THE PLANS OR ADDITIONAL AREAS REQUESTED BY THE CONTRACTOR, SHALL PROVIDE PROTECTION OF THE GROUND. NO ADDITIONAL COST CAN BE REQUESTED FOR ADDITIONAL STAGING AREAS.
18. WITHIN THE LIMIT OF WORK, CONTRACTOR SHALL IDENTIFY ALL TREE LIMBS LOWER THAN 10' ABOVE THE GROUND SURFACE THAT MAY BE VULNERABLE TO EQUIPMENT DAMAGE. NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK BENEATH ANY OF THESE LIMBS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO TREE LIMBS THAT ARE DUE TO CONTRACTOR OPERATIONS.
19. CONTRACTOR TO PROVIDE SILT SACKS FOR ALL CATCH BASINS WITHIN LIMIT OF WORK.

## ARLINGTON TREE REMOVAL AND REPLACEMENT POLICY:

1. REMOVAL OF A 3–8" DBH TREE SHALL BE REPLACED WITH (1) TREE
2. REMOVAL OF A 9–20" DBH TREE SHALL BE REPLACED WITH (2) TREES
3. REMOVAL OF A 21"+ DBH TREE SHALL BE REPLACED WITH (3) TREES
4. TOTAL PROPOSED TREES TO REMOVE:
   - 3–8" = 0 TREES
   - 9–20" = 2 TREES
   - 21"+ = 0 TREES
   - TOTAL REPLACEMENT TREES NEEDED = 4 TREES

20 0 20 40 FT

# ARLINGTON - HILL'S HILL PLAYGROUND ADA WALKWAY

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON

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MASSACHUSETTS KYLE B. ZICK REGISTERED LANDSCAPE ARCHITECT No. 1169

100% CONSTRUCTION DRAWINGS

Job Number:

Project: HILL'S HILL PLAYGROUND ADA WALKWAY

Drawn By: TH Checked By: KZ

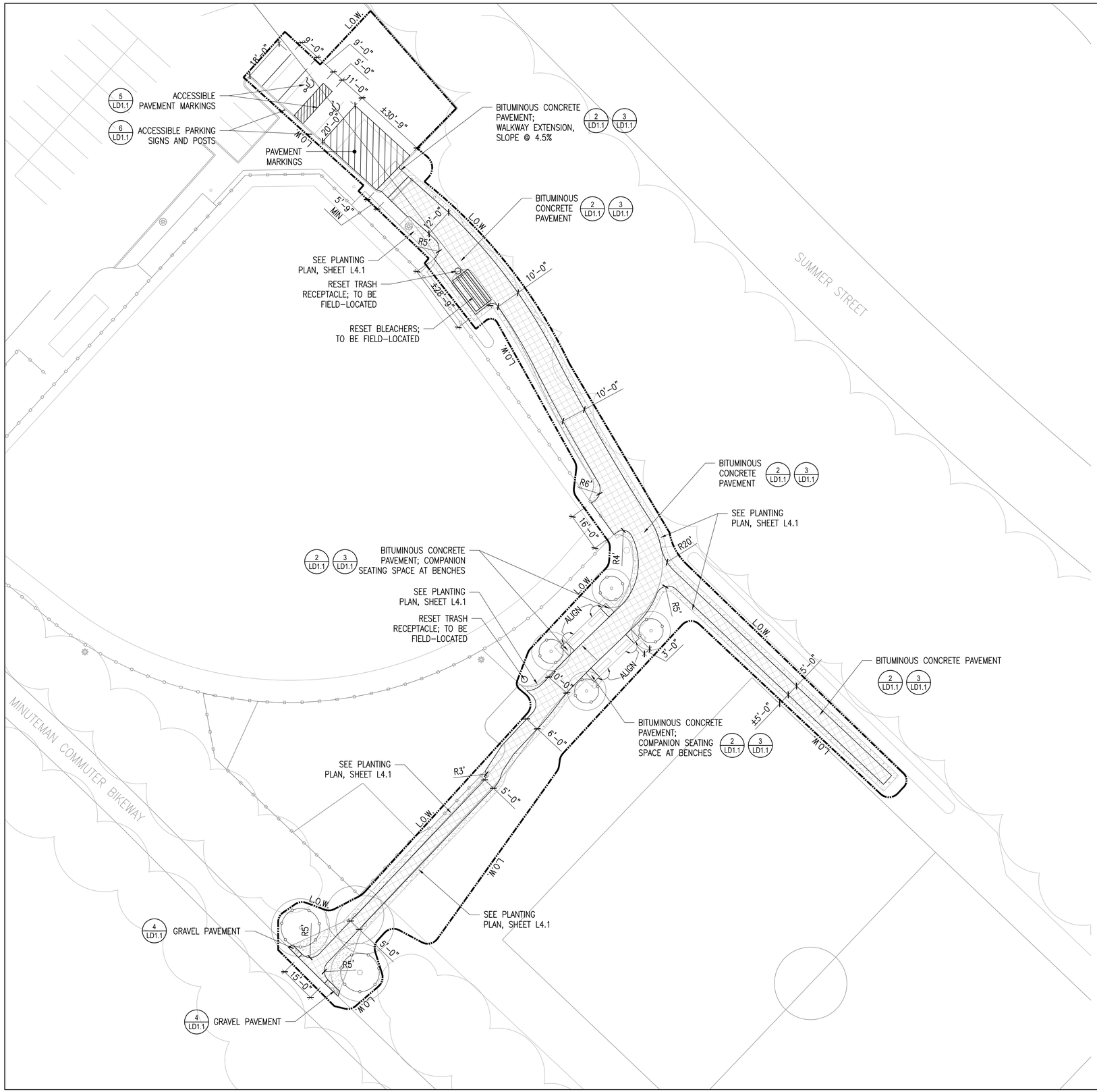
Date: DECEMBER 10, 2020

Scale:

Drawing Title:

SITE PREPARATION AND DEMOLITION PLAN

L1.1




## LEGEND

- L.O.W. — LIMIT OF WORK
- BITUMINOUS CONCRETE PAVEMENT (2 LD1.1) (3 LD1.1)
- GRAVEL PAVEMENT (4 LD1.1)

## LAYOUT NOTES:

1. ALL LINE AND GRADE WORK PER DRAWINGS AND SPECIFICATIONS SHALL BE LAID OUT BY A REGISTERED CIVIL ENGINEER OR PROFESSIONAL LAND SURVEYOR ENGAGED BY THE CONTRACTOR.
2. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
3. STORAGE AREAS FOR CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE IN AND WITHIN THE STAGING AREA AS SHOWN ON SHEET L1.1, OR AS APPROVED BY THE LANDSCAPE ARCHITECT.
4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE SITE SURVEY TO THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK.
5. ALL LAYOUTS FOR WALKS AND PATHS SHALL BE ADEQUATELY STAKED BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL ESTABLISH PERMANENT CONSTRUCTION BENCH MARKS. MAINTAIN ALL ESTABLISHED BOUNDS AND BENCH MARKS AND REPLACE AS DIRECTED ANY WHICH ARE DESTROYED OR DISTURBED.
7. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.
8. LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREA OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER; HOWEVER, DUE TO THE HISTORIC NATURE OF THE PARK, EXTRA CARE SHOULD BE TAKEN TO AVOID SUCH DAMAGE.
9. PROVIDE EXPANSION JOINTS AT ALL CURBS, WALLS, STEPS, LIGHT POLE BASES, PULL BOXES, MANHOLES, ETC. AND AS SHOWN ON PLAN.
10. LOAM AND SEED ALL DISTURBED AREAS THAT ARE NOT PROPOSED AS PAVEMENT.
11. ALL PAVEMENT MARKINGS AND SIGNS TO BE FIELD LOCATED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
12 AUTOCAD FILE WILL BE PROVIDED TO THE CONTRACTOR TO LAYOUT SITE IMPROVEMENTS.

20 0 20 40 FT

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MASSACHUSETTS KYLE S. ZICK No. 1150 REGISTERED LANDSCAPE ARCHITECT

100% CONSTRUCTION DRAWINGS

Job Number:

Project: HILL'S HILL PLAYGROUND ADA WALKWAY

Drawn By: TH Checked By: KZ

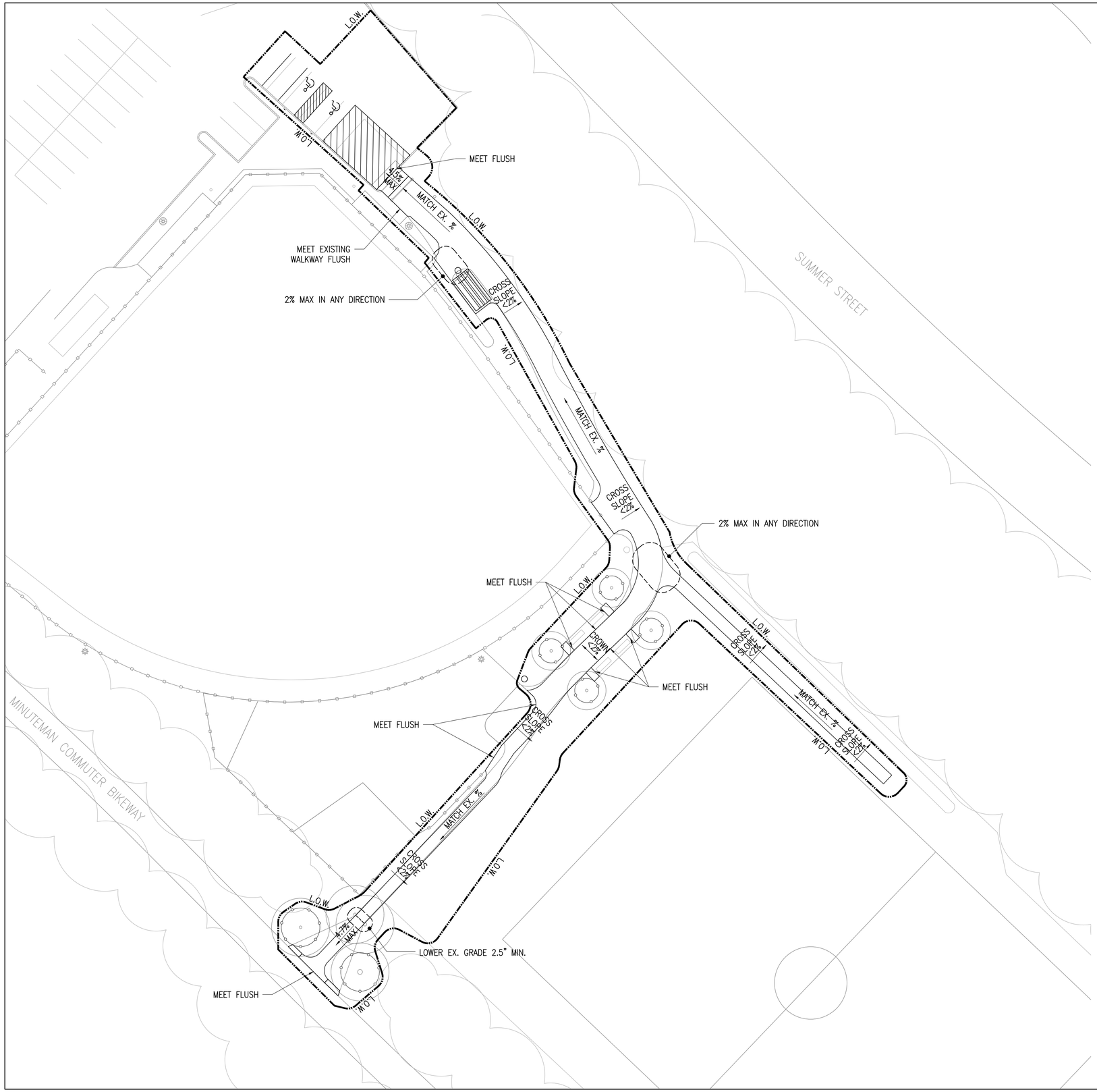
Date: DECEMBER 10, 2020

Scale:

Drawing Title:

SITE LAYOUT AND MATERIALS PLAN

L2.1




LEGEND

| | | | |
|---|---|---|---|
| L.O.W. | LIMIT OF WORK | HP | HIGH POINT |
| +74.50 | SPOT GRADE, TYP. | LP | LOW POINT |
| +(74.50) | EXISTING SPOT GRADE, TYP. | BC | BOTTOM OF CURB |
| 2.00% | SLOPE, TYP. | TC | TOP OF CURB |

## GRADING NOTES:

1. PRIOR TO COMMENCING ANY EXCAVATION WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES PROMOTED BY RESPECTIVE UTILITY COMPANIES. THE 'DIG SAFE' TELEPHONE NUMBER FOR MASSACHUSETTS IS 811.
2. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND SHALL REPORT ANY DISCREPANCIES BETWEEN EXISTING AND PROPOSED CONDITION TO THE LANDSCAPE ARCHITECT.
3. LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL MEET LINE AND GRADE OF EXISTING CONDITIONS AT LIMIT OF WORK LINE.
4. COMPACT SUBGRADE PRIOR TO ANY FINISH GRADING. REMOVE ALL SOFT SPOTS OBSERVED OR IDENTIFIED IN FIELD.
5. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM SLOPE OF ONE-EIGHTH INCH (1/8") PER FOOT. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.
6. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDINGS AT ALL TOP AND BOTTOM OF SLOPES.
7. EXCAVATION REQUIRED WITHIN DRIP LINE OF TREES DESIGNATED TO REMAIN SHALL BE DONE BY HAND. PLANT MATERIALS DAMAGED BY CONTRACTOR SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS.
8. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS OR ABUTTING PROPERTY.
9. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. WHERE NEW PAVING MEETS EXISTING PAVING, MEET LINE AND GRADE OF EXISTING WITH NEW.
10. MAXIMUM CROSSPITCH OF ALL SIDEWALKS IS 2%. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT.
11. ALL GRADING SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE OFFICIAL MANUAL OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD AND THE AMERICANS WITH DISABILITIES ACT STANDARDS FOR BUILDINGS AND FACILITIES, LATEST EDITION. IN CASE OF CONFLICT BETWEEN REGULATIONS, THE GUIDELINE PROVIDING GREATER ACCESS SHALL APPLY.
12. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). EXCAVATION REQUIRED WITHIN PROXIMITY OF UTILITY LINES SHALL BE DONE BY HAND. ANY DAMAGE AND INCURRED COSTS DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
13. CONTRACTOR SHALL MAINTAIN OR ADJUST TO PROPOSED FINISH GRADE AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POSTS, MANHOLES, CATCH BASINS, HAND HOLES, WATER AND GAS GATES, HYDRANTS, IRRIGATION VALVE BOXES, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED OR AS DIRECTED BY LANDSCAPE ARCHITECT.
14. CONTRACTOR SHALL PROVIDE FULL DEPTHS OF LOAM AS NOTED ON DETAILS AND AS SPECIFIED, FOR ALL PLANTING.
15. MAINTAIN THE INTEGRITY OF THE EXISTING DRAINAGE SYSTEM AT ALL TIMES, UNLESS OTHERWISE NOTED ON DRAWINGS.

20 0 20 40 FT

# ARLINGTON - HILL'S HILL PLAYGROUND ADA WALKWAY

ARLINGTON, MASSACHUSETTS

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MASSACHUSETTS KYLE R. ZICK No. 1193 REGISTERED LANDSCAPE ARCHITECT

100% CONSTRUCTION DRAWINGS

Job Number:

Project: HILL'S HILL PLAYGROUND ADA WALKWAY

Drawn By: TH Checked By: KZ

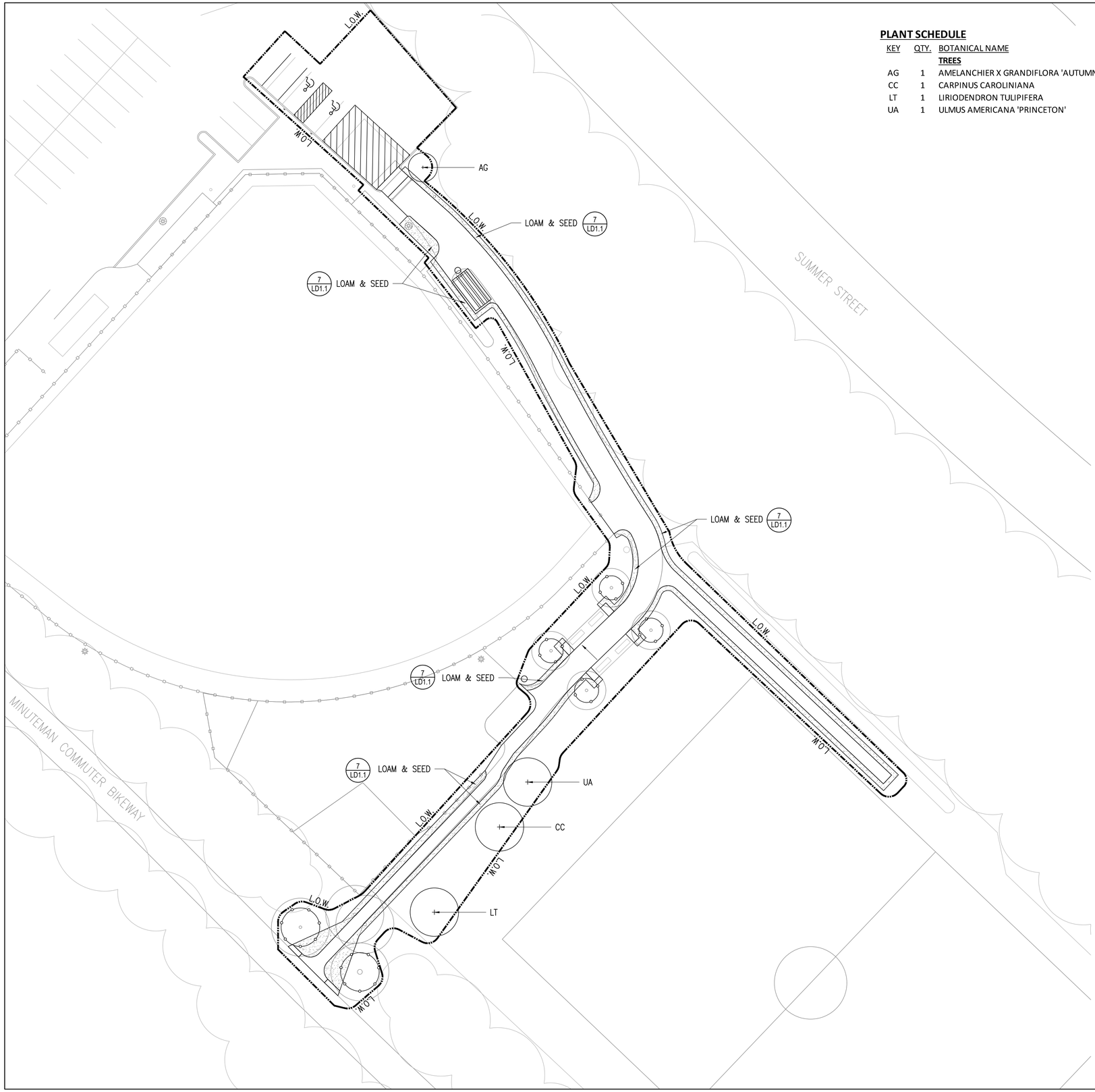
Date: DECEMBER 10, 2020

Scale:

Drawing Title:

GRADING PLAN

L3.1




**PLANT SCHEDULE**

| KEY | QTY. | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | NOTES: |
|---|---|---|---|---|---|---|
| | | **TREES** | | | | |
| AG | 1 | AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' | AUTUMN BRILLIANCE SERVICEBERRY | 8'B&B | | Multistem |
| CC | 1 | CARPINUS CAROLINIANA | AMERICAN HORNBEAM | 2.5" CAL. | | |
| LT | 1 | LIRIODENDRON TULIPIFERA | TULIP TREE | 2.5" CAL. | | |
| UA | 1 | ULMUS AMERICANA 'PRINCETON' | PRINCETON ELM | 2.5" CAL. | | |

LEGEND

- L.O.W. — LIMIT OF WORK
- LOAM & SEED — 7 / LD1.1
- EXISTING TREE
- DECIDUOUS TREE — 8 / LD1.1

## PLANTING NOTES:

1. IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
2. ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
3. ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER–GROWN, UNLESS OTHERWISE NOTED ON THE PLANT SCHEDULE.
4. THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
5. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND SHALL BE NATIVE PLANTS ON THE OLMSTED PLANTING LIST. ALL SUBSTITUTIONS SHALL REQUIRE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
6. ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
7. CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
8. STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
9. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
10. CONTRACTOR SHALL PROVIDE FULL DEPTHS OF LOAM AS NOTED ON DETAILS AND AS SPECIFIED, FOR ALL PLANTING.
11. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCES, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.
12. LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
13. IN AREAS WHERE EXISTING PAVEMENTS ARE REMOVED AND ARE PROPOSED AS LAWN, THE CONTRACTOR SHALL REMOVE THE PAVEMENT AND BASE, PROVIDE FILL AND 6" TOPSOIL PRIOR TO SEEDING.
15. LOAM AND SEED ALL DISTURBED AREAS THAT ARE NOT PROPOSED AS PAVEMENT.

20 0 20 40 FT

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MASSACHUSETTS KYLE S. ZICK No. 1160 REGISTERED LANDSCAPE ARCHITECT

100% CONSTRUCTION DRAWINGS

**Job Number:**

**Project:** HILL'S HILL PLAYGROUND ADA WALKWAY

**Drawn By:** TH **Checked By:** KZ

**Date:** DECEMBER 10, 2020

**Scale:**

**Drawing Title:**

PLANTING PLAN

L4.1

# SPECIFICATION NOTES:

FENCING:

1. CONSTRUCTION FENCE
   a. FENCE SHALL BE SUFFICIENT TO RESTRICT ACCESS TO SITE AND ACCOMMODATE CONSTRUCTION OPERATIONS.
2. TREE PROTECTION FENCE
   a. TREE PROTECTION FENCING HEIGHT SHALL BE 4 FT. UNLESS OTHERWISE INDICATED. TREE PROTECTION FENCING SHALL BE ONE OF THE FOLLOWING, AT THE CONTRACTOR'S OPTION.
      (1) GALVANIZED CHAIN LINK FENCING. POSTS FOR FENCING SHALL BE NOMINAL 2-1/2 IN. DIAMETER, GALVANIZED STEEL POSTS, DRIVEN A MINIMUM OF 3 FT. INTO THE GROUND. POSTS SHALL BE SPACED 10 FT. O.C. MAXIMUM. FENCE FABRIC SHALL BE 2 IN. MESH, 11 GAUGE MINIMUM.
      (2) WIRE BOUND WOODROLL SNOW FENCE WITH 3/8 IN. X 1-1/2 IN. WIDE PICKETS, SPACED APPROX. 2 IN. APART BOUND TOGETHER WITH AT LEAST 13 GAUGE GALVANIZED STEEL WIRE AND WITH BRIGHTLY PAINTED TOP EDGE. STAKES FOR FENCING SHALL BE STEEL OR WOOD POSTS. POSTS SHALL BE SPACED 10 FT. MAXIMUM.
      (3) POLYPROPYLENE BARRICADE FENCING MANUFACTURED BY BEN MEADOWS CO., 3589 BROAD STREET, ATLANTA, GA 30366, OR APPROVED EQUAL. STAKES FOR FENCING SHALL BE 2 IN. X 4 IN. WOOD POSTS, DRIVEN A MINIMUM OF 3 FT. INTO THE GROUND. POSTS SHALL BE SPACED 8 FT. MAX.
      (4) PLASTIC POLYMER SAFETY FENCE, MODEL BX2050 SAFETY GRID, MANUFACTURED BY THE TENSAR CORPORATION, MORROW, GA 30260, OR APPROVED EQUAL. COLOR SHALL BE HIGH VISIBILITY ORANGE. STAKES FOR FENCING SHALL BE 2 IN. X 4 IN. WOOD POSTS, DRIVEN A MIN. OF 3 FT INTO THE GROUND, SPACED 8 FT. O.C. MAX.
   b. TREE PROTECTION SHALL REMAIN IN PLACE AND BE MAINTAINED IN WORKING CONDITION BY THE CONTRACTOR UNTIL DIRECTED FOR REMOVAL BY THE LANDSCAPE ARCHITECT. CONTRACTOR SHALL REMOVE TREE PROTECTION DEVICES FROM THE SITE AT THE COMPLETION OF THE WORK.

TREE REMOVAL

1. TREE REMOVAL SHALL INCLUDE THE FELLING, CUTTING, AND SATISFACTORY DISPOSAL OF ALL TREES, STUMPS AND VEGETATIVE DEBRIS PRODUCED THROUGH REMOVING THE TREES.
2. STUMPS SHALL BE REMOVED TO THEIR FULL DEPTH UNLESS OTHERWISE NOTED. ROOTS 3 INCHES AND LARGER SHALL BE REMOVED TO A DEPTH OF 1 FOOT BELOW FINISHED GRADE. STUMPS SHALL BE LEGALLY DISPOSED OF OFF-SITE.

PAVEMENT:

BITUMINOUS CONCRETE PAVEMENT

1. UNLESS OTHERWISE SPECIFIED, WORK AND MATERIALS FOR CONSTRUCTION OF THE BITUMINOUS CONCRETE PAVEMENT, BITUMINOUS CONCRETE CURB, AND BITUMINOUS CONCRETE PATCH SHALL CONFORM TO THE APPLICABLE PORTIONS OF THE MASSDOT SPECIFICATIONS SECTION 400.

SUBBASE AND BASE COURSES

1. AGGREGATE SUBBASE AND BASE COURSES FOR PAVING AND THE SPREADING, GRADING, AND COMPACTION METHODS EMPLOYED SHALL CONFORM TO STANDARD REQUIREMENTS FOR USUAL BASE COURSE OF THIS TYPE FOR FIRST CLASS ROAD WORK, AND THE MASSDOT SPECIFICATIONS SECTION 100.
2. PROCESSED GRAVEL SHALL CONSIST OF INERT MATERIAL THAT IS HARD, DURABLE STONE AND COARSE SAND, FREE FROM LOAM AND CLAY, SURFACE COATINGS, AND DELETERIOUS MATERIALS. GRADATION SHALL CONFORM TO THE FOLLOWING:

| SIEVE NO. | % PASSING BY WEIGHT |
|---|---|
| 3" (75 MM) | 100 |
| 1 ½" (37.5MM) | 70–100 |
| ¾" (19 MM) | 50–85 |
| #4 (4.75UM) | 30– 60 |
| #200 (75 UM) | 0 –10 |

3. DENSE GRADED CRUSHED STONE SHALL CONSIST OF INERT ANGULAR MATERIAL THAT IS HARD, DURABLE STONE AND STONE SCREENINGS, FREE FROM LOAM AND CLAY, SURFACE COATINGS, AND PLASTIC MATERIALS. GRADATION SHALL CONFORM TO THE FOLLOWING:

| SIEVE NO. | % PASSING BY WEIGHT |
|---|---|
| 2" (75 MM) | 100 |
| 1 ½" (37.5 MM) | 70–100 |
| ¾" (19 MM) | 50–85 |
| #4 (4.75 MM) | 30–55 |
| #50 (500 UM) | 8–24 |
| #200 (75 UM) | 3–10 |

BITUMINOUS CONCRETE

1. BITUMINOUS CONCRETE SHALL BE A STANDARD PLANT-MIXED, HOT-LAID PAVING MATERIAL, CONSISTING OF CLEAN, CRUSHED ROCK AGGREGATE, MINERAL FILLER, AND ASPHALT CONFORMING TO THE MASSDOT STANDARD SPECIFICATIONS SECTION M3.
2. BITUMINOUS CONCRETE PAVEMENT SHALL CONSIST OF BINDER COURSE AND TOP/WEARING COURSE. PAVEMENT DEPTH AFTER ROLLING SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS. EACH COURSE SHALL BE APPLIED IN A SINGLE LIFT.
3. BITUMINOUS PAVING MIXTURE, EQUIPMENT, TEMP., METHODS OF MIXING AND PLACING, AND PRECAUTIONS AS TO WEATHER & CONDITION OF BASE SHALL CONFORM TO THE MASSDOT SPECIFICATIONS SECTION 400 – CLASS I BITUMINOUS CONCRETE PAVEMENT FOR ROADWAY & PARKING AREAS.
4. BITUMINOUS CONCRETE PATCH SHALL CONSIST OF BINDER AND TOP COURSES OF BITUMINOUS CONCRETE IN DEPTHS TO MATCH EXISTING PAVEMENT.
5. NO MIX SHALL BE PLACED ON WET OR DAMP SURFACES, OR WHEN AMBIENT TEMPERATURES ARE 40F AND FALLING.

BITUMINOUS MATERIALS

1. TACK COAT SHALL CONSIST OF ASPHALT EMULSION, TYPE RS-1 OR RS-2 CONFORMING TO MASSDOT SPECIFICATIONS.
2. PRIME COAT SHALL BE ASPHALT PRIMER CONFORMING TO MASSDOT SPECIFICATIONS, M3 ASPHALT PRIMER, AND IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO M116.

BITUMINOUS CONCRETE PAVEMENT SPREADING, COMPACTION & FINISHING

1. THE EQUIPMENT FOR SPREADING AND FINISHING SHALL BE MECHANICAL, SELF-POWERED PAVERS, CAPABLE OF SPREADING AND FINISHING THE MIXTURE TRUE TO LINES, GRADE, WIDTH AND CROWN BY MEANS OF FULLY AUTOMATED CONTROLS FOR BOTH LONGITUDINAL AND TRANSVERSE SLOPE.
2. SPREADING BY HAND METHODS WILL BE PERMITTED ONLY FOR LOCATIONS IN THE WORK WHICH BECAUSE OF IRREGULARITY, INACCESSIBILITY OR OTHER UNAVOIDABLE OBSTACLES DO NOT ALLOW MECHANICAL SPREADING AND FINISHING.
3. AFTER THE PAVING MIXTURE HAS BEEN PROPERLY SPREAD, COMPACTION SHALL BE OBTAINED BY THE USE OF POWER ROLLERS OF APPROVED DESIGN AND WEIGHT PER INCH OF ROLLER. THE ROLLERS SHALL BE STEEL WHEELED SUPPLEMENTED WITH PNEUMATIC-TIRED ROLLERS WHERE REQUIRED.
4. IN PLACES NOT ACCESSIBLE TO ROLLER, MIXTURE SHALL BE COMPACTED WITH HAND TAMPERS WEIGHING AT LEAST 50 POUNDS WITH A TAMPING FACE LESS THAN OR EQUAL TO 100 SQUARE INCHES. MECHANICAL TAMPERS CAPABLE OF EQUAL COMPACTION WILL BE ACCEPTABLE IN AREAS IN WHICH THEY CAN BE EMPLOYED EFFECTIVELY.
5. EARTH OR OTHER APPROVED MATERIAL SHALL BE PLACED ALONG PAVEMENT EDGES IN SUCH QUANTITY AS WILL COMPACT TO THICKNESS OF COURSE BEING CONSTRUCTED, ALLOWING AT LEAST 12 INCHES OF SHOULDER WIDTH TO BE ROLLED AND COMPACTED SIMULTANEOUSLY WITH ROLLING AND COMPACTING SURFACE. PAVEMENT EDGE SHALL BE TRIMMED NEATLY TO LINE BEFORE PLACING APPROVED MATERIAL ALONG EDGE.
6. THE SURFACE OF THE MIXTURE AFTER COMPACTION SHALL BE SMOOTH AND TRUE TO THE ESTABLISHED LINE AND GRADE. VARIATIONS IN PITCH OF FINISHED SURFACE SHALL BE LESS THAN OR EQUAL TO THE FOLLOWING TOLERANCES WHEN TESTED WITH A 10 FOOT STRAIGHTEDGE, APPLIED BOTH PARALLEL TO AND AT RIGHT ANGLES TO CENTERLINE OF PAVED AREA.
   a. FOR ROADWAY AND PARKING PAVEMENT SURFACE COURSE – 1/4 INCH IN 10 FEET.
   b. AT JOINT WITH EXISTING PAVEMENT, AND AT OTHER LOCATIONS WHERE AN ESSENTIALLY FLUSH TRANSITION IS REQUIRED, PAVEMENT ELEVATION TOLERANCE SHALL NOT EXCEED 0.01 FEET.
   c. AT OTHER AREAS PAVEMENT ELEVATION TOLERANCE SHALL NOT EXCEED + 0.05 FEET.
   d. IRREGULARITIES EXCEEDING THESE AMOUNTS OR THAT RETAIN WATER ON SURFACE SHALL BE CORRECTED BY REMOVING DEFECTIVE WORK AND REPLACING WITH NEW MATERIAL.
7. SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING.
8. ALL WORK SHALL COMPLY WITH ADA REQUIREMENTS.

SUBMITTALS (PRIOR TO ORDERING):

1. SUBMIT THE FOLLOWING:
   JOB MIX FORMULA FOR ALL BITUMINOUS CONCRETE MIXES, LISTING PROPERTIES AND PERTINENT INGREDIENTS FOR REVIEW AND APPROVAL
2. SUBMIT SAMPLES OF THE FOLLOWING:
   PROCESSED GRAVEL BASE
   DENSE GRADED CRUSHED STONE
3. SUBMIT TESTING FOR THE FOLLOWING:
   MECHANICAL GRADATION (SIEVE ANALYSIS) OF EACH MATERIAL PROPOSED FOR FILL AND BACKFILL FROM ON-SITE MATERIALS AND OFF-SITE BORROW SOURCES.

# PLANTING SPECIFICATION NOTES:

SEASONS FOR PLANTING:

1. SPRING: DECIDUOUS MATERIALS – MARCH 21 TO MAY 1
2. FALL: DECIDUOUS MATERIALS – OCTOBER 1 TO DECEMBER 1

LOAM:

1. LOAM SHALL BE ONE OF THE FOLLOWING LOAMY SANDS AND SANDY LOAMS" "LOAMY SAND", "LOAMY FINE SAND" LOAM VERY FINE SAND" OR COARSE SANDY LOAM" DETERMINED BY MECHANICAL ANALYSIS (ASTM D 422) AND BASED ON THE "USDA CLASSIFICATION SYSTEM." IT SHALL BE OF UNIFORM COMPOSITION, WITHOUT ADMIXTURE OF SUBSOIL. LOAM SHALL BE FREE OF STONES GREATER THAN 0.75 INCHES, LUMPS, PLANTS AND THEIR ROOTS, DEBRIS AND OTHER EXTRANEOUS MATTER AS DETERMINED BY THE LANDSCAPE ARCHITECT.

   PLANTING SOIL FOR LAWN AREAS SHALL HAVE THE FOLLOWING GRAIN SIZE DISTRIBUTION FOR MATERIAL PASSING THE #10 SIEVE:

| | PERCENT PASSING BY WEIGHT | |
|---|---|---|
| MILLIMETER | MAXIMUM | MINIMUM |
| 2 | --- | 100 |
| 1 | 100 | 82 |
| 0.5 | 87 | 65 |
| 0.25 | 72 | 49 |
| 0.10 | 45 | 30 |
| 0.05 | 32 | 22 |
| 0.002 | 5 | 2 |

   a. MAXIMUM SIZE SHALL BE ONE AND ONE QUARTER INCHES LARGEST DIMENSION. THE MAXIMUM RETAINED ON THE #10 SIEVE SHALL BE 25% BY WEIGHT OF THE TOTAL SAMPLE.
   b. THE RATIO OF THE PARTICLE SIZE FOR 80% PASSING (D80) TO THE PARTICLE SIZE FOR 30% PASSING (D30) SHALL BE 6.0 OR LESS. (D80/D30 < 6.0).
2. ORGANIC CONTENT AND PH FOR SPECIFIC PLANTING USE SHALL BE AS FOLLOWS:
   a. AREAS PLANTED WITH TURF GRASSES:
      (1) PH: 6.0 THROUGH 7.0
      (2) ORGANIC CONTENT 4.0 – 6.0 PERCENT AS DETERMINED BY THE LOSS ON IGNITION OF OVEN-DRIED SAMPLES PASSING #10 SIEVE (MUFFLE FURNACE TEMPERATURE: 450 +/– 10 DEGREES C FOR 8 HOURS)
   b. TOP 18 INCHES (450 MM) OF AREAS PLANTED WITH TREES AS DESCRIBED IN THIS SPECIFICATION:
      (1) PH: 5.5 THROUGH 6.5 FOR NON-ACID LOVING PLANTS
      (2) ORGANIC CONTENT 4.0 – 6.0, AS FOR AREAS PLANTED WITH TURF GRASSES.
3. LOAM BORROW SHALL BE TESTED FOR CONFORMANCE TO THE SPECIFICATIONS. SOIL ADDITIVES SHALL BE USED TO COUNTERACT SOIL DEFICIENCIES AS RECOMMENDED BY THE SOILS ANALYSIS, AND AS SUPPLEMENTS FOR LAWN CONSTRUCTION.
4. PLACE LOAM IN TWO LIFTS. PLACE THE FIRST LIFT TO A DEPTH OF 2 INCHES. TILL THE LOAM INTO THE UNDERLYING SUBSOIL TO A DEPTH OF 2 INCHES, CREATING A BLENDED INTERFACE OF LOAM AND SUBSOIL APPROXIMATELY 4 INCHES DEEP. SPREAD SECOND LIFT OF LOAM TO A MINIMUM DEPTH OF 4 INCHES, OR AS SHOWN ON THE CONTRACT DOCUMENTS.
5. NO LOAM SHALL BE PLANTED, HANDLED OR SEEDED IF IT IS IN A WET OR FROZEN CONDITION.
6. SOIL ADDITIVES SHALL BE INCORPORATED BY HARROWING OR SIMILAR METHOD, AS APPROVED BY LANDSCAPE ARCHITECT. INCORPORATE THE FOLLOWING ADDITIVES:
   a. GROUND LIMESTONE OR ACIDULANT AS REQUIRED BY THE SOIL ANALYSIS TO ACHIEVE REQUIRED PH.
   b. FERTILIZER AT THE RATE AND COMPOSITION RECOMMENDED BY THE SOIL ANALYSIS
   c. OTHER SOIL AMENDMENTS AS REQUIRED BY THE SOIL ANALYSIS.
7. COMPACT LOAM TO THE REQUIRED DENSITY. MAXIMUM DRY DENSITY FOR TOPSOILS AND LOAM SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D698. THE FOLLOWING PERCENTAGES OF MIN. TO MAX. DRY DENSITIES SHALL BE ACHIEVED FOR FILL MATERIALS OR PREPARED SUBGRADES IN LAWN AND PLANT BEDS:

| | MINIMUM | MAXIMUM |
|---|---|---|
| a. FILLS WITHIN SEEDING AND PLANTING AREAS IN TOP 18" OF FINISHED GRADE | 80% | 85% |

SEED:

1. SEED MIXTURE SHALL BE FRESH, CLEAN, NEW CROP SEED. GRASS SHALL BE OF THE PREVIOUS YEAR'S CROP AND THE WEED SEED CONTENT SHALL NOT EXCEED 0.25% BY WEIGHT.
2. SEED MIXTURE COMPOSITION

| COMMON NAME | PROPORTION BY WEIGHT | GERMINATION MINIMUM | PURITY MINIMUM |
|---|---|---|---|
| KENTUCKY BLUEGRASS (3 VARIETIES MIN./4 MAX.) | 80% | 85% | 95% |
| PERENNIAL RYE (2 VARIETIES MIN) | 20% | 90% | 90% |

   a. ALL GRASS VARIETIES SHALL BE WITHIN THE TOP 50 PERCENT OF VARIETIES TESTED IN THE NATIONAL TURFGRASS EVALUATION PROGRAM, OR CURRENTLY RECOMMENDED AS LOW-MAINTENANCE VARIETIES BY THE UNIVERSITY OF MASSACHUSETTS OR THE UNIVERSITY OF RHODE ISLAND.
   b. SEEDING RATE SHALL BE 4 LBS PER 1,000 SQUARE FEET.
   c. SEASON FOR SEEDING SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. SEED LOAM AREAS WITHIN 5 DAYS OF SPREADING THE LOAM.

WOOD CELLULOSE FIBER MULCH

1. MULCH TO COVER HYDROSEEDED AREAS SHALL BE FIBER PROCESSED FROM WHOLE WOOD CHIPS AND CLEAN RECYCLED NEWSPRINT IN A 1:1 PROPORTION MANUFACTURED SPECIFICALLY FOR STANDARD HYDRAULIC MULCHING EQUIPMENT. FIBER SHALL NOT BE PRODUCED FROM RECYCLED MATERIAL SUCH AS SAWDUST, PAPER, OR CARDBOARD.
2. MOISTURE CONTENT SHALL NOT EXCEED 10 PERCENT, PLUS OR MINUS 3 PERCENT AS DEFINED BY THE PULP AND PAPER INDUSTRY STANDARDS. FIBER SHALL HAVE A WATER HOLDING CAPACITY OF NOT LESS THAN 900 GRAMS WATER PER 100 GRAMS FIBER.
3. THE MULCH SHALL BE OF SUCH CHARACTER THAT THE FIBER WILL BE DISPERSED INTO A UNIFORM SLURRY WHEN MIXED WITH WATER. MULCH SHALL BE NONTOXIC TO PLANT OR ANIMAL LIFE.
4. MULCH SHALL CONTAIN A NON-PETROLEUM BASED ORGANIC TACKIFIER AND A GREEN DYE TO ALLOW FOR EASY VISUAL METERING DURING APPLICATION, BUT SHALL BE NON-INJURIOUS TO PLANT GROWTH

WATER

THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH HIS OWN SUPPLY OF WATER TO THE SITE AT NO EXTRA COST. ALL WORK INJURED OR DAMAGED DUE TO THE LACK OF WATER, OR THE USE OF TOO MUCH WATER, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CORRECT. WATER SHALL BE FREE FROM IMPURITIES INJURIOUS TO VEGETATION.

MULCH

1. BARK MULCH: MULCH SHALL BE HIGH QUALITY, DOUBLE-GROUND, PREMIUM BARK MULCH OF 70 PERCENT HEMLOCK BARK WITH THE BALANCE SPRUCE AND PINE BARK. MULCH SHALL HAVE BEEN AGED FOR A MINIMUM OF SIX MONTHS AND A MAXIMUM OF TWO YEARS. BARK MULCH SHALL BE SHREDDED TO A UNIFORM SIZE; FREE OF DIRT, DEBRIS AND FOREIGN MATTER; WITH PIECES NO THICKER THAN ¼". MULCH MUST BE FREE OF STRINGY MATERIAL OR CHUNKS OVER 3 INCHES IN SIZE AND SHALL NOT CONTAIN, IN THE JUDGMENT OF THE LANDSCAPE ARCHITECT, AN EXCESS OF FINE PARTICLES.

LIMESTONE

1. GROUND LIMESTONE FOR ADJUSTMENT OF LOAM BORROW PH SHALL CONTAIN NOT LESS THAN 85 PERCENT OF TOTAL CARBONATES AND SHALL BE GROUND TO SUCH FINENESS THAT 40 PERCENT WILL PASS THROUGH 100 MESH SIEVE AND 95 PERCENT WILL PASS THROUGH A 20 MESH SIEVE. CONTRACTOR SHALL BE AWARE OF LOAM BORROW PH AND THE AMOUNT OF LIME NEEDED TO ADJUST PH TO SPECIFICATION IN ACCORDANCE WITH TESTING LAB RECOMMENDATIONS.

LAWN MAINTENANCE:

MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER ANY AREA IS SEEDED AND SHALL CONTINUE FOR A 90 DAY ACTIVE GROWING PERIOD FOR SEEDED AREAS PAST FINAL ACCEPTANCE; THE COMPLETION OF ALL LAWN CONSTRUCTION WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT.

PLANT MAINTENANCE:

1. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE FOR A MINIMUM 90-DAY MONITORING PERIOD AND UNTIL FINAL ACCEPTANCE OR, THE END OF THE GROWING SEASON, WHICHEVER COMES LATER. THE GROWING SEASON IS FROM APRIL 1 TO NOVEMBER 1.
2. WATERING BAGS SHALL BE INSTALLED AROUND EACH DECIDUOUS TREE. IF TREES ARE STAKED, THE WATERING BAG SHALL BE INSTALLED AROUND ONE OF THE STAKES TO PREVENT THE TRUNK OF THE TREE FROM BEING DAMAGED BY WET CONDITIONS AND TO ENCOURAGE ROOT GROWTH. WATERING BAGS SHALL BE CAPABLE OF RELEASING 20 GALLONS OF WATER OVER A 24 HOUR PERIOD. CONTRACTOR SHALL REMOVE THE WATER BAGS AT FINAL COMPLETION OR REMAIN FOR FUTURE REMOVAL AT THE OWNER'S DISCRETION.
3. PLANTS SHALL BE INSPECTED FOR WATERING NEEDS AT LEAST TWICE EACH WEEK AND WATERED TO PROMOTE PLANT GROWTH AND VITALITY. THE FOLLOWING WATERING RATES ASSUME THAT THE SOIL IS FREE DRAINING.

| TYPE OF PLANT/SIZE | WEEKLY WATERING RATE |
|---|---|
| TREES | |
| 1"–1½" CALIPER | 40 GALLONS |
| 1½" – 2" CALIPER | 54 GALLONS |
| 2" – 2½" CALIPER | 61 GALLONS |
| 2½" – 3" CALIPER | 70 GALLONS |

GUARANTEE

1. THE DATE OF THE CERTIFICATE OF FINAL ACCEPTANCE SHALL ESTABLISH THE COMMENCEMENT OF THE REQUIRED ONE-YEAR GUARANTEE AND ESTABLISHMENT PERIOD FOR PLANTING WORK.

SUBMITTALS (BEFORE ORDERING):

1. SUBMIT SAMPLES OF THE FOLLOWING:
   a. BARK MULCH: SUBMIT A ONE CUBIC FOOT SAMPLE
   b. PEAT MOSS: SUBMIT A ONE CUBIC FOOT SAMPLE
   c. WOOD CELLULOSE FIBER MULCH
   d. GYPSUM
   e. PEAT MOSS
2. SUBMIT MANUFACTURER'S PRODUCT DATA FOR THE FOLLOWING:
   a. SOIL ADDITIVES:
      (1) LIMESTONE, INCLUDING CERTIFICATION THAT LIMESTONE CONFORMS TO SPECIFICATION.
      (2) ACIDULANT, INCLUDING SUPPLIER'S CERTIFICATION THAT THE ACIDULANT BEING SUPPLIED CONFORMS TO SPECIFICATION.
      (3) FERTILIZER
         (a) PRODUCT DATA OF SEEDING AND PLANTING FERTILIZER AND CERTIFICATES SHOWING COMPOSITION AND ANALYSIS. SUBMIT FERTILIZATION RATES FOR FERTILIZER PRODUCT BASED UPON SOIL TESTING, ANALYSIS, AND RECOMMENDATIONS AS SPECIFIED, PERFORMED AND PAID FOR UNDER THESE SPECIFICATIONS.
         (b) SUBMIT THE PURCHASING RECEIPT SHOWING THE TOTAL QUANTITY PURCHASED FOR THE PROJECT PRIOR TO INSTALLATION.
      (4) GYPSUM
      (5) PEAT MOSS, INCLUDING SUPPLIER'S CERTIFICATION OF CONTENTS.
      (6) OTHER ADDITIVES NEEDED TO AMEND A SPECIFIC SOIL TO MEET THE SPECIFICATIONS
   b. SEED:
      SUBMIT A MANUFACTURER'S CERTIFICATE OF COMPLIANCE TO THE SPECIFICATIONS WITH EACH SHIPMENT OF SEED. THESE CERTIFICATES SHALL INCLUDE THE GUARANTEED PERCENTAGES OF SEED PURITY, WEED CONTENT AND GERMINATION, AND ALSO THE NET WEIGHT AND DATE OF SHIPMENT. NO SEED MAY BE SOWN UNTIL CONTRACTOR HAS SUBMITTED THE CERTIFICATES.
   c. HYDROSEEDING:
      PRIOR TO THE START OF HYDROSEEDING, SUBMIT A CERTIFIED STATEMENT FOR APPROVAL AS TO THE NUMBER OF POUNDS OF MATERIALS TO BE USED PER 100 GALLONS OF WATER.
      SUBMIT COPIES OF MANUFACTURER'S LITERATURE ON WOOD CELLULOSE FIBER MULCH
3. SUBMIT TEST RESULTS OF LOAM BORROW:
   a. THE CONTRACTOR SHALL PROVIDE A ONE CUBIC FOOT REPRESENTATIVE SAMPLE FOR TESTING. ALL STOCKPILE SAMPLING SHALL BE PER ASTM D 75 AND APPENDIXES FOR SECURING SAMPLES FROM STOCKPILES.
   b. TESTING WILL BE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL DELIVER ALL SAMPLES TO TESTING LABORATORIES VIA OVERNIGHT COURIER AND SHALL HAVE THE TESTING REPORT SENT DIRECTLY TO THE LANDSCAPE ARCHITECT.
   c. PERFORM ALL TESTS FOR GRADATION, ORGANIC CONTENT, SOIL CHEMISTRY AND PH BY UMASS SOIL AND PLANT TISSUE LABORATORY, WEST EXPERIMENT STATION, NORTH PLEASANT STREET, UNIVERSITY OF MASSACHUSETTS, AMHERST, MA 01003, (413) 545-2311.
   d. TESTING REPORTS SHALL BE DATED WITHIN 30 DAYS OF SUBMISSION TO THE LANDSCAPE ARCHITECT. TESTING REPORTS BEYOND 30 DAYS OLD WILL BE REJECTED AND NEW TESTING REPORTS MANDATED.
   e. TESTING REPORTS SHALL INCLUDE THE FOLLOWING TESTS AND RECOMMENDATIONS.
      (1) MECHANICAL GRADATION (SIEVE ANALYSIS) SHALL BE PERFORMED AND COMPARED TO THE USDA SOIL CLASSIFICATION SYSTEM. SIEVE ANALYSIS SHALL BE BY COMBINED HYDROMETER AND WET SIEVING USING SODIUM HEXAMETAPHOSPHATE AS A DISPERSANT IN COMPLIANCE WITH ASTM D 422 AFTER DESTRUCTION OF ORGANIC MATTER BY H2O2. TO FACILITATE REVIEW AND APPROVAL OF SIEVE ANALYSIS, PROVIDE A COMPUTER GENERATED GRADATION CURVE FROM UMASS SOIL & PLANT TISSUE LABORATORY.
      (2) PERCENT OF ORGANICS SHALL BE DETERMINED BY THE LOSS ON IGNITION OF OVEN-DRIED SAMPLES. TEST SAMPLES MINUS #10 MATERIAL SHALL BE OVEN-DRIED TO A CONSTANT WEIGHT AT A TEMPERATURE OF 450 DEGREES FAHRENHEIT (752 DEGREES CENTIGRADE).
      (3) CHEMICAL ANALYSIS SHALL BE UNDERTAKEN FOR NITRATE NITROGEN, AMMONIUM NITROGEN, PHOSPHORUS, POTASSIUM, CALCIUM, MAGNESIUM, EXTRACTABLE ALUMINUM, LEAD, ZINC, CADMIUM, COPPER, SOLUBLE SALTS, AND PH AND BUFFER PH. A CONDUCTIVITY METER SHALL BE USED TO MEASURE SOLUBLE SALTS IN 1:2 SOIL/WATER (V/V). EXCEPT WHERE OTHERWISE NOTED, NUTRIENT TESTS SHALL BE FOR AVAILABLE NUTRIENTS.
      (4) SOIL ANALYSIS TESTS SHALL SHOW RECOMMENDATIONS FOR SOIL ADDITIVES TO CORRECT SOILS DEFICIENCIES AS NECESSARY, AND FOR ADDITIVES NECESSARY TO ACCOMPLISH LAWN AND PLANTING WORK AS SPECIFIED.

ARLINGTON - HILL'S HILL PLAYGROUND ADA WALKWAY

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON

| NO. | REVISION | DATE |
|---|---|---|
| | | |

kzla
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MASSACHUSETTS KYLE S. ZICK No. 1150 REGISTERED LANDSCAPE ARCHITECT

100% CONSTRUCTION DRAWINGS

Job Number:

Project: HILL'S HILL PLAYGROUND ADA WALKWAY

Drawn By: TH | Checked By: KZ

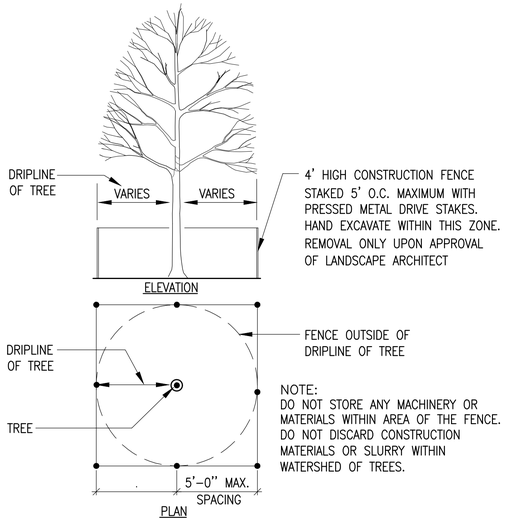
Date: DECEMBER 10, 2020

Scale:

Drawing Title:

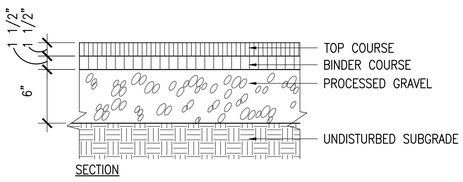
SPECIFICATIONS

L5.1



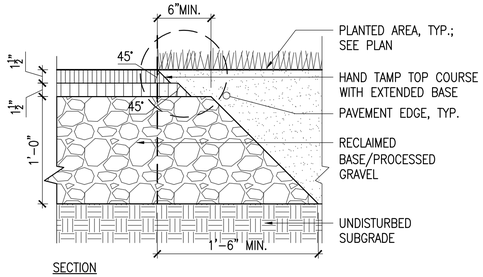

## 1 TREE AND SITE PROTECTION - FENCE

SCALE: N.T.S.



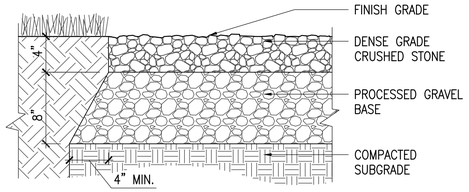

## 2 BITUMINOUS CONCRETE PAVEMENT

SCALE: 1 1/2" = 1'-0"



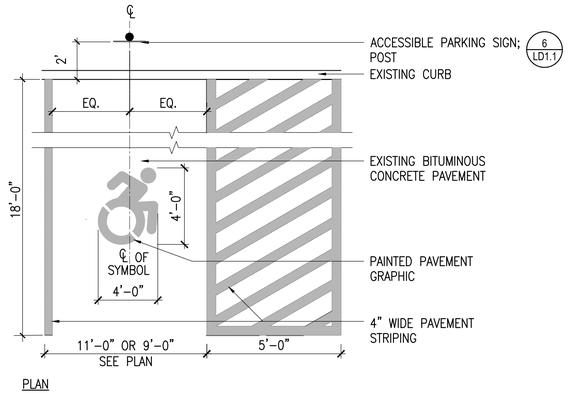

## 3 BITUMINOUS CONCRETE PAVEMENT EDGE

SCALE: 1 1/2" = 1'-0"



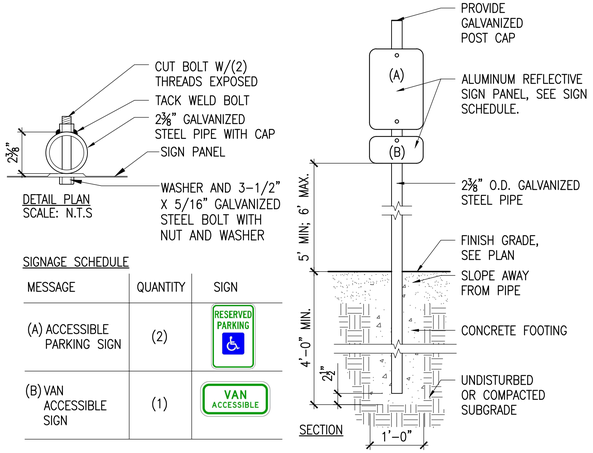

## 4 GRAVEL PAVEMENT

SCALE: 1 1/2" = 1'-0"




## 5 ACCESSIBLE PAVEMENT MARKINGS

SCALE: 3/8" = 1'-0"




SIGNAGE SCHEDULE

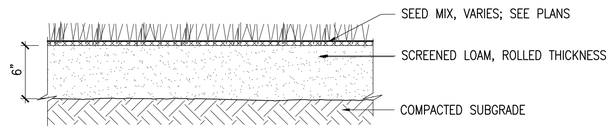
| MESSAGE | QUANTITY | SIGN |
|---|---|---|
| (A) ACCESSIBLE PARKING SIGN | (2) | RESERVED PARKING |
| (B) VAN ACCESSIBLE SIGN | (1) | VAN ACCESSIBLE |

NOTES

1. PROJECT REQUIRES TWO (2) SIGN POSTS – ONE WITH SIGN (A) AND SIGN (B); ONE WITH SIGN (A).
2. SIGN PANEL SHALL BE 0.08" ENGINEERING-GRADE REFLECTIVE ALUMINUM SHEET. CORNERS SHALL BE ROUNDED. SIZE PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION.
3. ENGINEERING GRADE ALUMINUM SHALL MEET ASTM D4956 (TYPE I) RETRO REFLECTIVE STANDARDS. ALUMINUM SHALL HAVE AN OUTDOOR DURABILITY OF UP TO SEVEN YEARS.
4. ALL SIGNS SHALL HAVE TWO 3/8-INCH HOLES (ONE AT TOP AND ONE AT BOTTOM).
5. ALL HARDWARE SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153. ALL ATTACHMENTS SHALL BE CHILD-SAFE AND VANDAL RESISTANT.

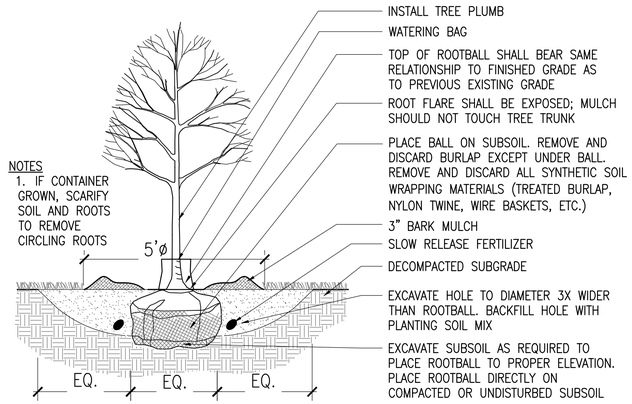
## 6 ACCESSIBLE PARKING SIGN; POST

SCALE: 3/4" = 1'-0"




## 7 LOAM & SEED

SCALE: 1 1/2" = 1'-0"




## 8 DECIDUOUS TREE PLANTING

SCALE: N.T.S.

ARLINGTON - HILL'S HILL PLAYGROUND ADA WALKWAY

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON

| NO. | REVISION | DATE |
|---|---|---|
| | | |

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MASSACHUSETTS KYLE S. ZICK No. 1160 REGISTERED LANDSCAPE ARCHITECT

100% CONSTRUCTION DRAWINGS

Job Number:

Project: HILL'S HILL PLAYGROUND ADA WALKWAY

Drawn By: TH Checked By: KZ

Date: DECEMBER 10, 2020

Scale:

Drawing Title:

LANDSCAPE DETAILS

LD1.1