

MAGNOLIA PARK IMPROVEMENTS ARLINGTON, MASSACHUSETTS

BID DOCUMENTS
MARCH 28, 2016

OWNER:

TOWN OF ARLINGTON
PARK AND RECREATION COMMISSION
ARLINGTON, MA

CONSULTANTS:



10 Central Street, Arlington MA 02476 USA
t 617-826-9302 w www.hedlunddesign.com

DESIGN CONSULTANT:

hord | coplan | macht

HORD COPLAN MACHT, INC.
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN
750 E. Pratt Street Suite 1100
Baltimore MD 21202
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14 Spring St. 1st Floor
Waltham, MA 02451
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DRAWING LIST:

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- L2 SITE PREPARATION & DEMOLITION PLAN
- L3 MATERIALS PLAN
- L4 GRADING AND DRAINAGE PLAN
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- L7-4 SITE CONSTRUCTION DETAILS
- L7-5 SITE UTILITY DETAILS



MAGNOLIA PARK
TOPOGRAPHIC PLAN
IN
ARLINGTON, MA
(MIDDLESEX COUNTY)
SCALE: 1" = 20' DATE: DECEMBER 7, 2015

OWNER: TOWN OF ARLINGTON

ROBER SURVEY
1072A MASSACHUSETTS AVENUE
ARLINGTON, MA 02476
(781) 648-5533
47371P1.DWG

LEGEND

| | |
|----------|----------------------|
| BIT CONC | BITUMINOUS CONCRETE |
| CB | CATCH BASIN |
| CLF | CHAIN LINK FENCE |
| CONC | CONCRETE |
| DCB | DOUBLE CATCH BASIN |
| DMH | DRAIN MANHOLE |
| ELEC | ELECTRIC CONTROL BOX |
| GG | GAS GATE |
| GW | GUY WIRE |
| HYD | HYDRANT |
| INV | INVERT |
| MW | MONITORING WELL |
| S | SIGN |
| SMH | SEWER MANHOLE |
| UP | UTILITY POLE |
| WG | WATER GATE |
| WM | WATER METER |
| 12" T | 12" TREE |
| • | SPOT GRADE ELEVATION |
| — | OVERHEAD WIRE |
| — | PROPERTY LINE |

0 20 40 60 80 ft

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Waltham, MA 02451
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HEDLUND DESIGN GROUP SURVEY NOTES:

1. SURVEY IS PREPARED BY ROBER SURVEY, 1072 A MASSACHUSETTS AVE., ARLINGTON, MA 02476, DATED DECEMBER 7, 2015.
2. THE DATUM IS BASED ON NAVD 1988 AND THE ORIGIN FOR COORDINATES IS ASSUMED.
3. THE NORTH ARROW IS BASED OFF OF PLAN 1417 OF 2004. THE BEARINGS ARE ASSUMED.

| 1 | ISSUED FOR BID | 3-28-2016 |
|------------------------------|----------------|-----------|
| No. | Description | Date |
| DWG ISSUE & REVISION HISTORY | | |

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ARLINGTON, MA 02476
(781) 648-5533
47371P1.DWG

ISSUED FOR BID

Project Title:
**MAGNOLIA PARK
ARLINGTON, MA**

Drawing Title:
EXISTING CONDITIONS

Project No. 080215
Drawn By: ROBER SURVEY
Checked By: -
Scale: 1"=20'
Date: March 28, 2016

Drawing No. **L1**

NOTE: ENTIRE PARK LOCATED WITHIN FLOOD ZONE AE.

DESIGN CONSULTANT:

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| No. | Description | Date |

DWG ISSUE & REVISION HISTORY

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ISSUED FOR BID

Project Title:

**MAGNOLIA PARK
ARLINGTON, MA**

Drawing Title:

**SITE PREPARATION &
DEMOLITION PLAN**

Project No. 080215

Drawn By: PWH

Checked By: PWH

Scale: 1"=20'

Date: March 28, 2016

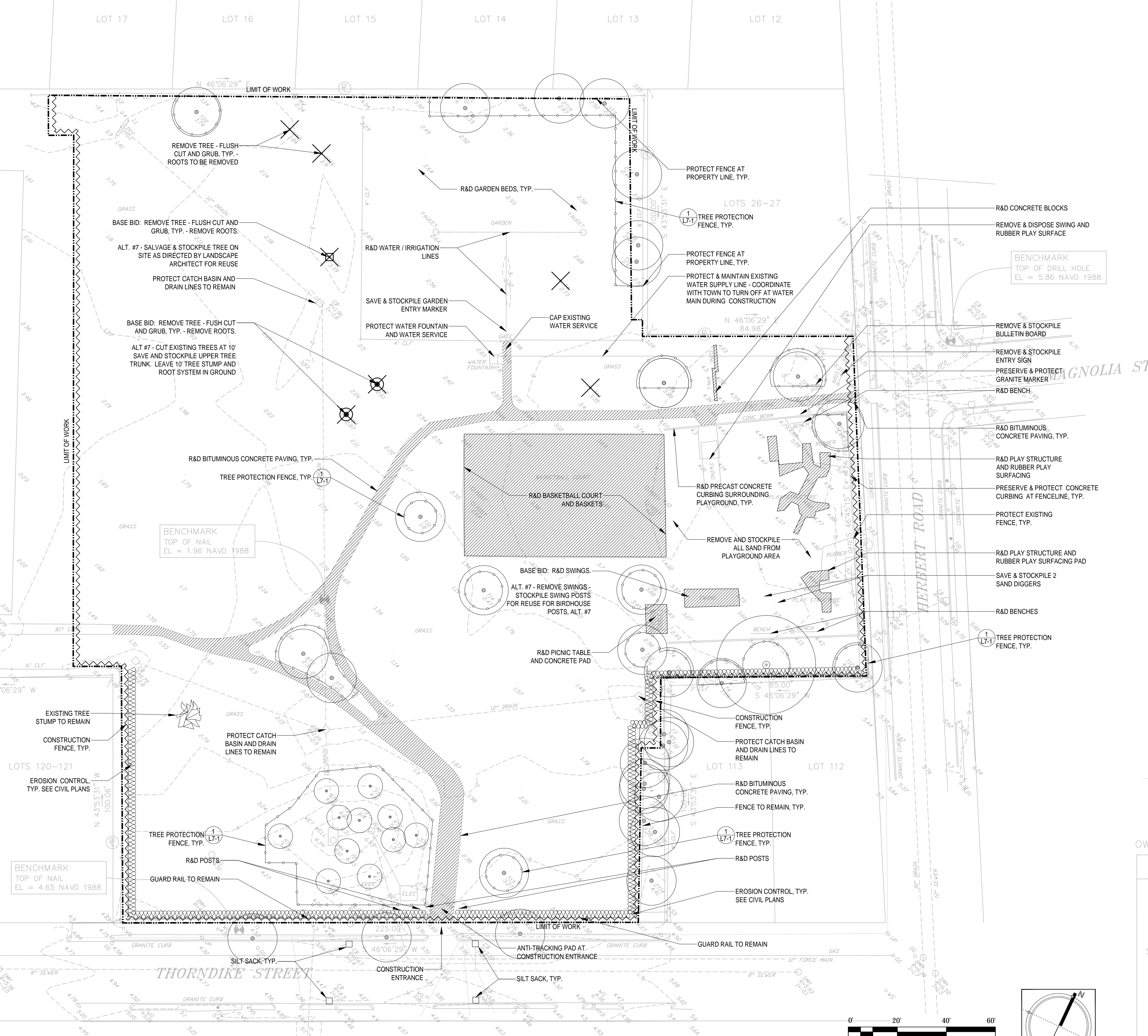
Drawing No. **L-2**

SITE PREPARATION & DEMOLITION LEGEND

- LIMIT OF WORK
- EXISTING TREE TO REMAIN AND BE PROTECTED
- EXISTING TREE TO BE REMOVED & DISPOSED - FLUSH CUT AND GRUB, REMOVE ROOTS
- EXISTING TREE TO BE REMOVED & SALVAGED - ALT#7
- EXISTING TREE TO BE REMOVED & SALVAGED - CUT AT 10' OFF OF GROUND - ALT.#7
- ITEM TO BE REMOVED & DISPOSED
- TREE PROTECTION FENCE - EXISTING TREE TO REMAIN
- R&D REMOVE & DISPOSE
- CONSTRUCTION FENCE
- EROSION CONTROL

SITE PREPARATION & DEMOLITION NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND THE ACTUAL CONDITIONS TO THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONDITIONS THAT ARE DUE TO CONTRACTOR OPERATIONS AND WHICH ARE OUTSIDE THE LIMIT OF WORK.
3. BEFORE ANY CLEARING IS DONE, THE GENERAL CONTRACTOR SHALL ARRANGE A CONFERENCE ON THE SITE WITH THE LANDSCAPE ARCHITECT TO IDENTIFY TREES WHICH ARE TO BE PROTECTED AND/OR REMOVED. DO NOT REMOVE ANY TREES WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PROTECTED AND APPROVAL BY THE LANDSCAPE ARCHITECT.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND PLANTS DESIGNATED TO REMAIN FOR THE LENGTH OF THE CONSTRUCTION PERIOD.
5. ALL TREES NOT DESIGNATED FOR REMOVAL SHALL HAVE BASIC PRUNING BY A MASSACHUSETTS CERTIFIED ARBORIST UNDER SUPERVISION OF LANDSCAPE ARCHITECT. SEE SPECIFICATIONS.
6. THE GENERAL CONTRACTOR SHALL MAINTAIN OR ADJUST TO NEW FINISH GRADE AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS SIGN POLES, MANHOLES, CATCH BASINS, HAND HOLDS, WATER AND GAS GATES, HYDRANTS, ETC. FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED ON THE UTILITY DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.
7. THE GENERAL CONTRACTOR SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
8. EXACT LOCATION FOR SILT FENCE AND TREE PROTECTION TO BE APPROVED IN FIELD BY LANDSCAPE ARCHITECT.
9. 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 THE CONTRACTOR.
10. THE GENERAL CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL TO FULL DEPTH WITHIN LIMIT OF GRADING BEFORE COMMENCING EXCAVATION AND GRADING OPERATIONS. THIS TOPSOIL SHALL NOT BE REMOVED FROM THE SITE.
11. AT ALL LOCATIONS WHERE CONCRETE PAVEMENT OR BITUMINOUS CONCRETE ABOUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT OR CURB SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE.
12. THE GENERAL CONTRACTOR TO COORDINATE WITH THE TOWN OF ARLINGTON FOR A METERED WATER SERVICE AS NEEDED FOR CONSTRUCTION.



NOTE: ENTIRE PARK LOCATED WITHIN FLOOD ZONE AE.

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C:\Users\Admin\Documents\Hedlund Design Group\15.2--Magnolia Park\CAD\DWG\LOTS\L3 Materials.dwg 3/29/16 10:49:32 AM

| No. | Description | Date |
|-----|----------------|-----------|
| 1 | ISSUED FOR BID | 3-28-2016 |

DWG ISSUE & REVISION HISTORY

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ISSUED FOR BID

Project Title:
**MAGNOLIA PARK
ARLINGTON, MA**

Drawing Title:
MATERIALS PLAN

Project No. 080215
Drawn By: PWH
Checked By: PWH
Scale: 1"=20'
Date: March 28, 2016

Drawing No. **L3**

MATERIALS LEGEND

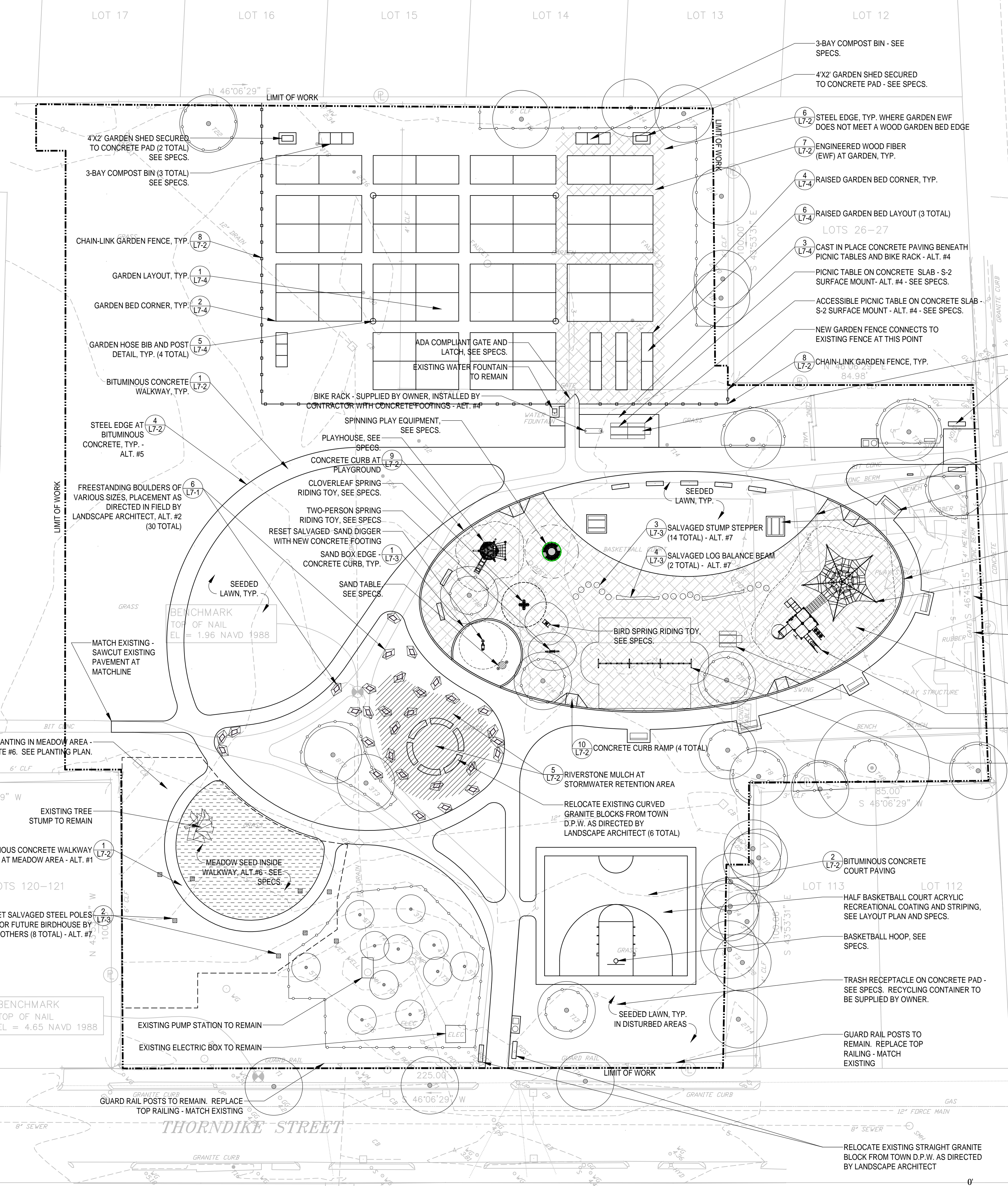
- LIMIT OF WORK
- TREE PROTECTION FENCE
- CHAIN LINK FENCE
- ▭ PICNIC TABLE
- ▭ ACCESSIBLE PICNIC TABLE
- ▭ BENCH
- ▭ RECYCLING (BY OWNER) AND TRASH RECEPTACLE
- ▭ GRANITE BLOCK
- TREE STUMP TO REMAIN
- ▭ BIRDHOUSE POLE
- BICYCLE RACK (SUPPLIED BY OWNER)
- GARDEN HOSE BIB AND POST
- ▨ RIVERSTONE MULCH AT STORMWATER AREA
- ▨ ENGINEERED WOOD FIBER (EWF)
- ▨ MEADOW SEED AREA
- ▨ MEADOW PLANTING AREA

MATERIALS NOTES:

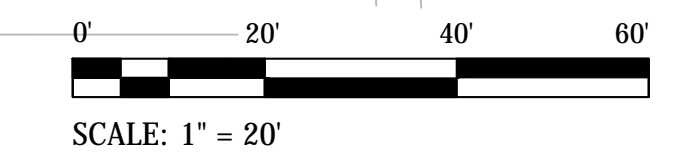
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- STORAGE AREAS BY THE GENERAL CONTRACTOR SHALL BE LOCATED WITHIN THE LIMIT OF WORK AND APPROVED BY THE LANDSCAPE ARCHITECT / OWNER.
- AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN EDGE.
- GENERAL CONTRACTOR SHALL STAKE LAYOUT OF PLAN ON THE SITE FOR APPROVAL OF LANDSCAPE ARCHITECT BEFORE COMMENCEMENT OF CONSTRUCTION. ALL CURVES SHALL BE STAKED WITH MARKERS. SEE LAYOUT PLAN.
- FOR FOUNDATIONS FOR ALL PLAY EQUIPMENT AND BASKETBALL HOOP SEE SPECS AND GEOTECH REPORT. ALL FOUNDATIONS TO BE MINIMUM 48" DEPTH.
- ALL WALKWAY AREAS TO BE BITUMINOUS CONCRETE UNLESS OTHERWISE INDICATED.
- HYDROSEEDING LAWN IN ALL DISTURBED AREAS UNLESS OTHERWISE NOTED.

ADD. ALTERNATES:

- WALKWAY LOOP AT MEADOW AREA. SEE MATERIALS PLAN.
- BOULDERS FOR STORMWATER AREA. SEE MATERIALS PLAN.
- ELECTRIC SUPPLY AND OUTDOOR OUTLET AT PICNIC TABLES AT GARDEN. SEE MATERIALS PLAN.
- 2 PICNIC TABLES AND BIKE RACK (SUPPLIED BY OWNER) WITH CONCRETE PAD AT GARDEN. SEE MATERIALS PLAN.
- STEEL EDGING AT ALL BITUMINOUS CONCRETE WALKS. SEE MATERIALS PLAN AND DETAIL #4 ON L7-2.
- MEADOW AREA PLANTING - TREES AND MEADOW SEED MIX. SEE PLANTING PLAN.
- BIRDHOUSE POLES AND FOUNDATIONS (8 TOTAL) - SEE #2 ON L7-3. STUMP STEPPERS IN PLAYGROUND AREA (14 TOTAL) FROM EXISTING ONSITE REDWOOD/CYPRESS TREES - SEE #3 ON L7-3. LOG BALANCE BEAMS IN PLAYGROUND AREA (2 TOTAL) - SEE #4 ON L7-3. SEE MATERIALS PLAN.



NOTE: ENTIRE PARK LOCATED WITHIN FLOOD ZONE AE.



GRADING, DRAINAGE AND UTILITY NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ARCHITECT PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.

ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES, GRADES AND OTHER SPECIFIC REQUIREMENT OR SPECIFICATIONS OF THE TOWN OF ARLINGTON.

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

THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATIONS AND ADJUSTMENT OF ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER AND ARCHITECT FOR RESOLUTION.

ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE PAVEMENT FINISH GRADE UNLESS OTHERWISE NOTED. RIM ELEVATIONS OF DRAINAGE STRUCTURES AND SANITARY SEWER MANHOLES ARE APPROXIMATE.

PITCH EVENLY BETWEEN SPOT GRADES. GRADE ALL AREAS TO DRAIN.

INSTALL ALL UTILITIES (INCLUDING CONCRETE PADS) PER UTILITY COMPANY AND ARLINGTON STANDARDS.

AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED PROJECT AS SHOWN IN THE PLAN SET PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OPERATIONS.

ALL DRAINAGE PIPES SHALL BE SMOOTH WALLED CORRUGATED POLYETHYLENE PIPE (ADS N-12 OR APPROVED EQUAL) EXCEPT WHERE NOTED OTHERWISE.

EXISTING TREES AND SHRUBS OUTSIDE THE LIMIT OF GRADING SHALL BE REMOVED ONLY UPON PRIOR APPROVAL OF THE OWNER.

CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION.

ALL WATER WORKS SHALL CONFORM TO ARLINGTON, WATER DIVISION SPECIFICATIONS, DETAILS, RULES AND REGULATIONS AND HAVE 5 FEET OF MINIMUM COVER.

ABANDON EXISTING UTILITY SERVICES ON-SITE ACCORDING TO UTILITY COMPANY AND TOWN OF ARLINGTON REQUIREMENTS.

THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL BARRIERS AFTER RE-VEGETATION OF DISTURBED AREAS AND AFTER APPROVAL OF THE ARCHITECT AND OWNER.

ALL WATER UTILITY IMPROVEMENTS SHALL COMPLY WITH THE AMERICAN WATERWORKS ASSOCIATION STANDARDS AND THE TOWN OF ARLINGTON WATER DEPARTMENT SPECIFICATIONS.

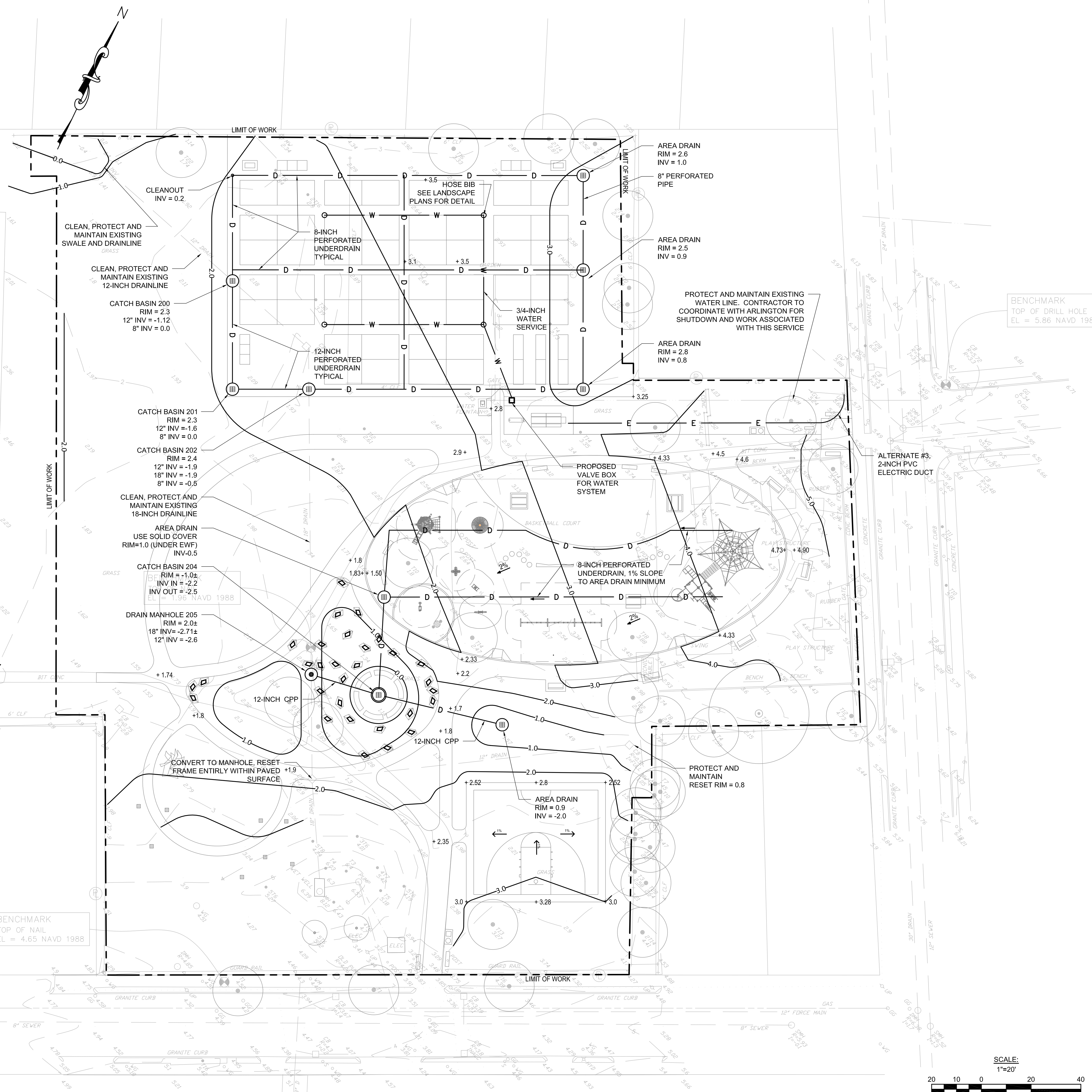
EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTORS SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

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

PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1/8" PER FOOT UNLESS SPECIFIED. ANY DISCREPANCIES NOT ALLOWING THIS MINIMUM PITCH SHALL BE REPORTED TO THE ARCHITECT PRIOR TO CONTINUING WORK.

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

UNLESS OTHERWISE INDICATED, ABANDONED EXISTING UTILITY LINES SHALL BE CAPPED AND ABANDONED IN PLACE UNLESS THEY CONFLICT WITH PROPOSED IMPROVEMENT. CAP REMAINING PORTIONS WHERE PARTIALLY REMOVED.



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| 1 | ISSUED FOR BID | 03-28-16 |
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| No. | Description | Date |
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DWG ISSUE & REVISION HISTORY

Stamp

ISSUED FOR BID

Project Title:
**MAGNOLIA PARK
ARLINGTON, MA**

Drawing Title:
GRADING AND DRAINAGE

Project No. 080215
Drawn By:
Checked By:
Scale: 1" = 20'
Date: March 28, 2016

Drawing No. **L4**

LAYOUT AND MATERIALS NOTES:

ALL SITE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS (DPW) STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, AND THE CITY OF ARLINGTON.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LEGAL REMOVAL AND DISPOSAL OF ALL DEBRIS FROM THE SITE AND AS MAY BE DIRECTED BY THE A/E.

ALL HANDICAP PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECTURAL BARRIERS BOARD.

ALL CHAIN LINK FENCING AND GATES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTION.

THE SITE CONTRACTOR SHALL CUT AND MATCH ALL EXISTING ROAD AND SIDEWALK PAVEMENT AS REQUIRED TO SET NEW CURBING AND GRADING.

ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.

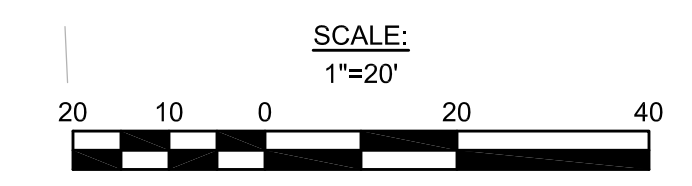
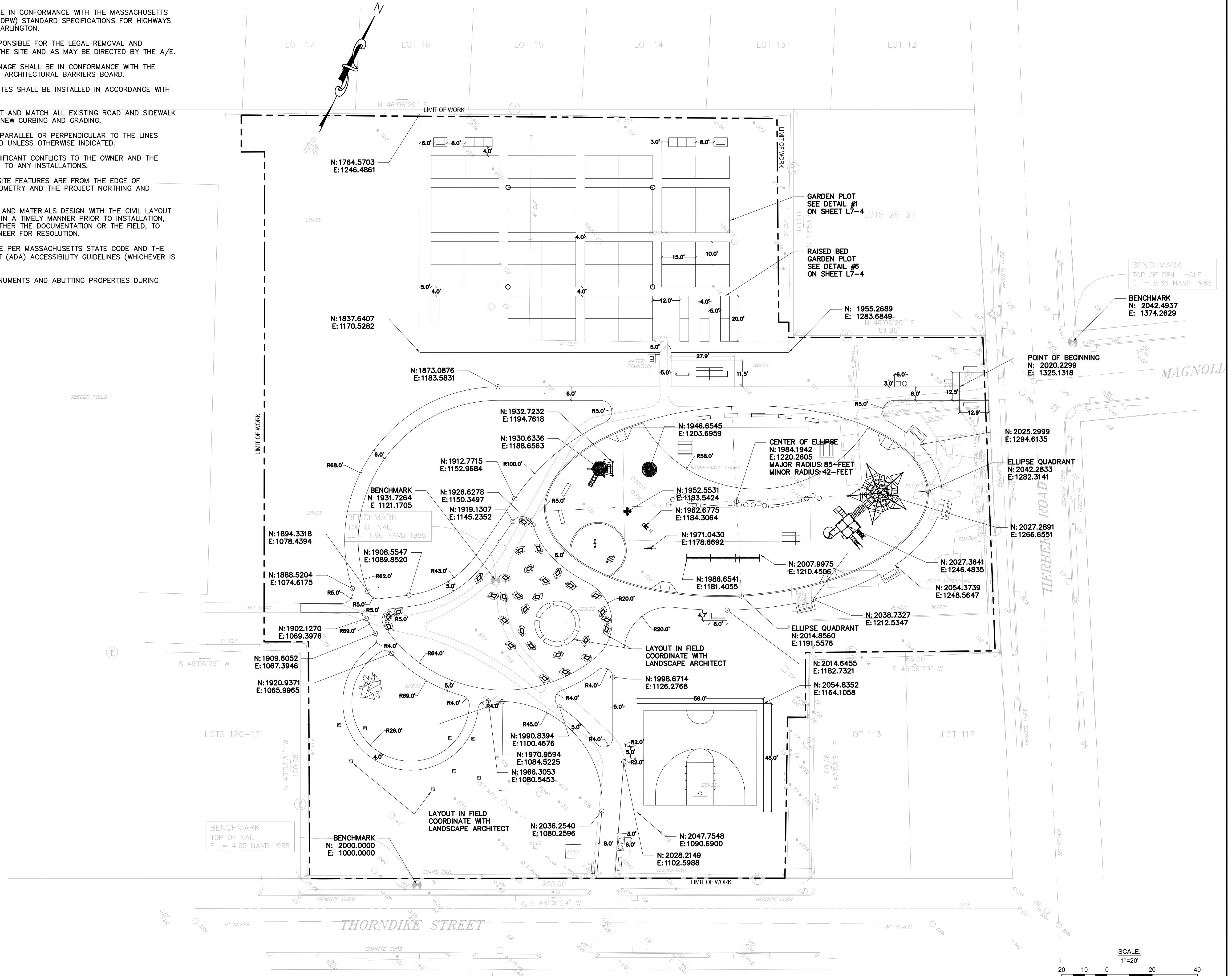
CONTRACTOR SHALL REPORT SIGNIFICANT CONFLICTS TO THE OWNER AND THE ENGINEER FOR RESOLUTION PRIOR TO ANY INSTALLATIONS.

DIMENSIONS OF WALKWAYS AND SITE FEATURES ARE FROM THE EDGE OF PAVEMENT AS LAID OUT WITH GEOMETRY AND THE PROJECT NORTHING AND EASTINGS.

COORDINATE LANDSCAPE LAYOUT AND MATERIALS DESIGN WITH THE CIVIL LAYOUT AND MATERIALS DESIGN. REPORT IN A TIMELY MANNER PRIOR TO INSTALLATION, ALL SIGNIFICANT CONFLICTS IN EITHER THE DOCUMENTATION OR THE FIELD, TO THE LANDSCAPE ARCHITECT ENGINEER FOR RESOLUTION.

ALL ACCESSIBLE RAMPS SHALL BE PER MASSACHUSETTS STATE CODE AND THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES (WHICHEVER IS MORE STRINGENT).

PROTECT EXISTING PROPERTY MONUMENTS AND ABUTTING PROPERTIES DURING CONSTRUCTION ACTIVITIES.



NOTE: ENTIRE PARK LOCATED WITHIN FLOOD ZONE AE.

HEDLUND DESIGN GROUP
Landscape Architecture + Planning

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DWG ISSUE & REVISION HISTORY

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Project Title:
**MAGNOLIA PARK
ARLINGTON, MA**

Drawing Title:
LAYOUT PLAN

Project No. 080215
Drawn By:
Checked By:
Scale: 1"=20'
Date: March 28, 2016

Drawing No. **L5**

3/28/16 2:48:11 PM H:\10_Projects\150083\CAD\LOTS\C2-0_LAYOUT.dwg

3/29/16 10:50:30 AM C:\Users\Admin\Documents\Hedlund Design Group\15.2-Magnolia Park\CAD\PLOTS\L6 Planting.dwg

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DWG ISSUE & REVISION HISTORY

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ISSUED FOR BID

Project Title:
**MAGNOLIA PARK
ARLINGTON, MA**

Drawing Title:
PLANTING PLAN

Project No. 080215
Drawn By: PWH
Checked By: PWH
Scale: 1"=20'
Date: March 28, 2016

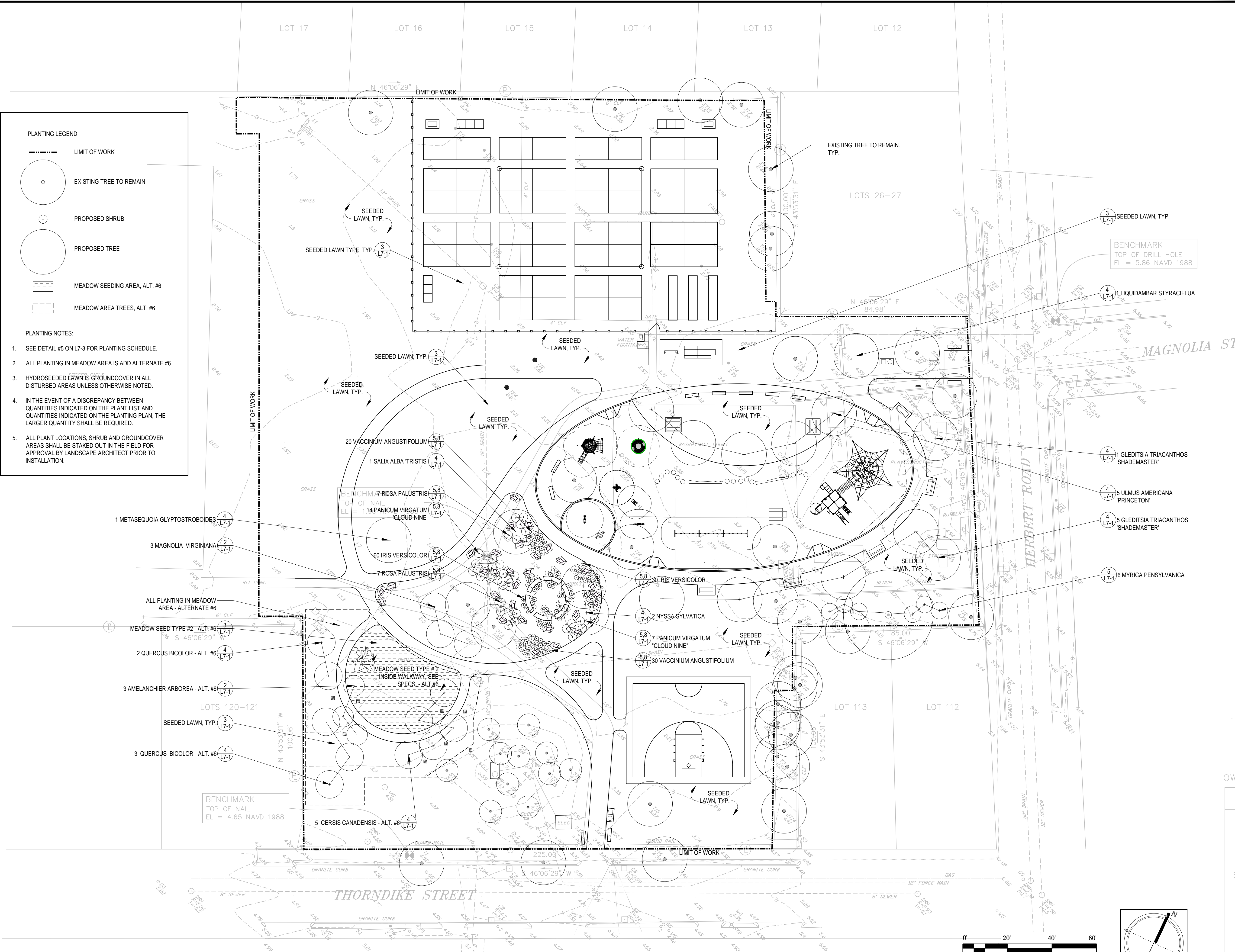
Drawing No. **L6**

PLANTING LEGEND

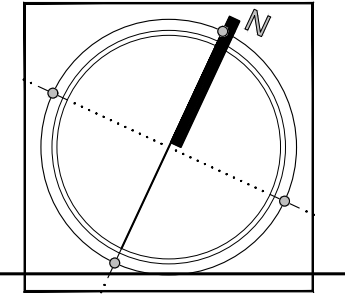
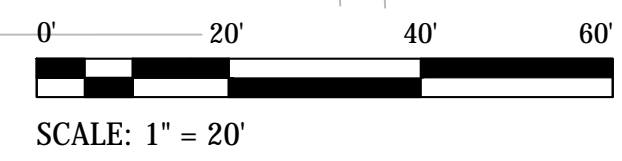
- LIMIT OF WORK
- EXISTING TREE TO REMAIN
- PROPOSED SHRUB
- PROPOSED TREE
- MEADOW SEEDING AREA, ALT. #6
- MEADOW AREA TREES, ALT. #6

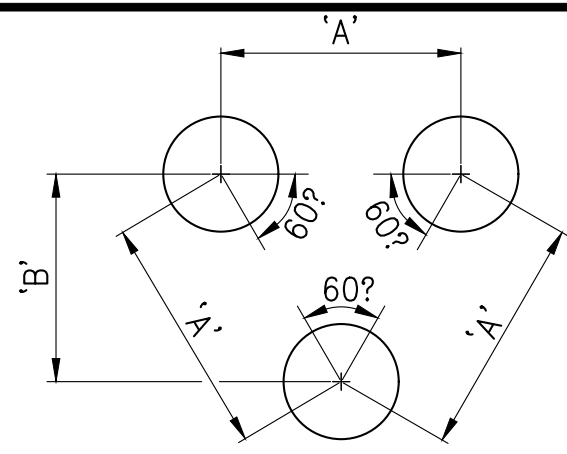
PLANTING NOTES:

- SEE DETAIL #5 ON L7-3 FOR PLANTING SCHEDULE.
- ALL PLANTING IN MEADOW AREA IS ADD ALTERNATE #6.
- HYDROSEEDED LAWN IS GROUND COVER IN ALL DISTURBED AREAS UNLESS OTHERWISE NOTED.
- IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES INDICATED ON THE PLANT LIST AND QUANTITIES INDICATED ON THE PLANTING PLAN, THE LARGER QUANTITY SHALL BE REQUIRED.
- ALL PLANT LOCATIONS, SHRUB AND GROUND COVER AREAS SHALL BE STAKED OUT IN THE FIELD FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.



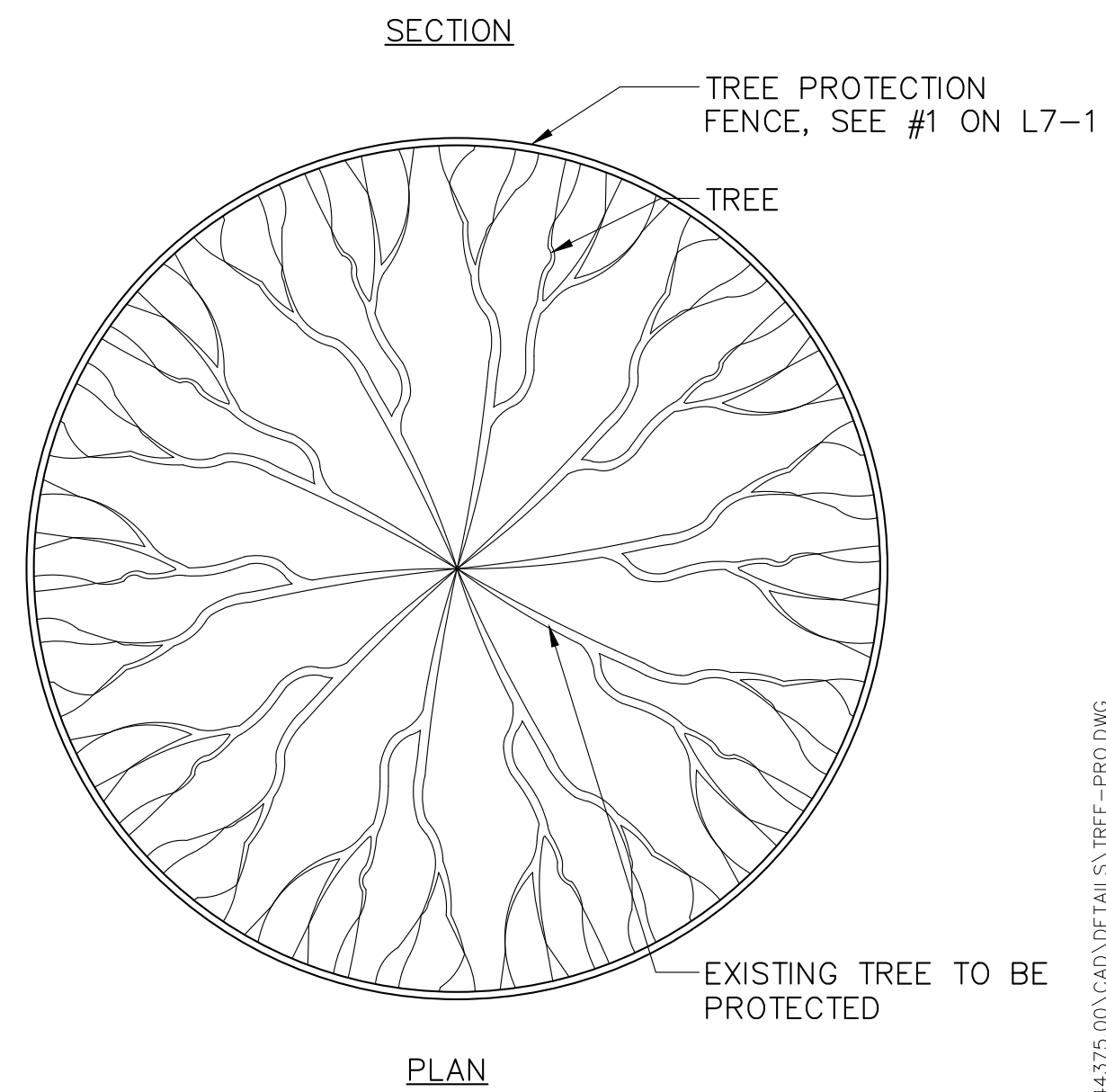
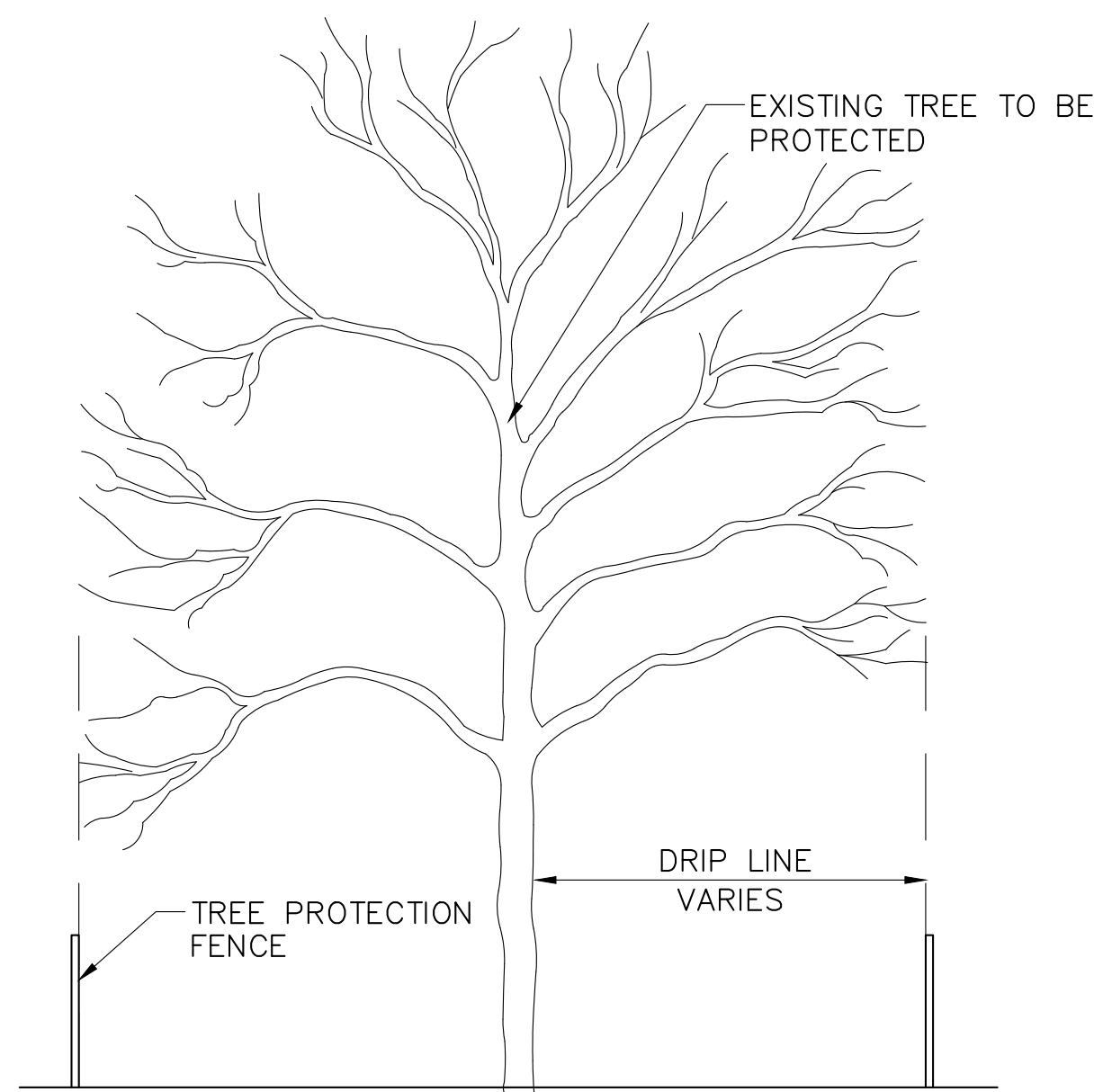
NOTE: ENTIRE PARK LOCATED WITHIN FLOOD ZONE AE.



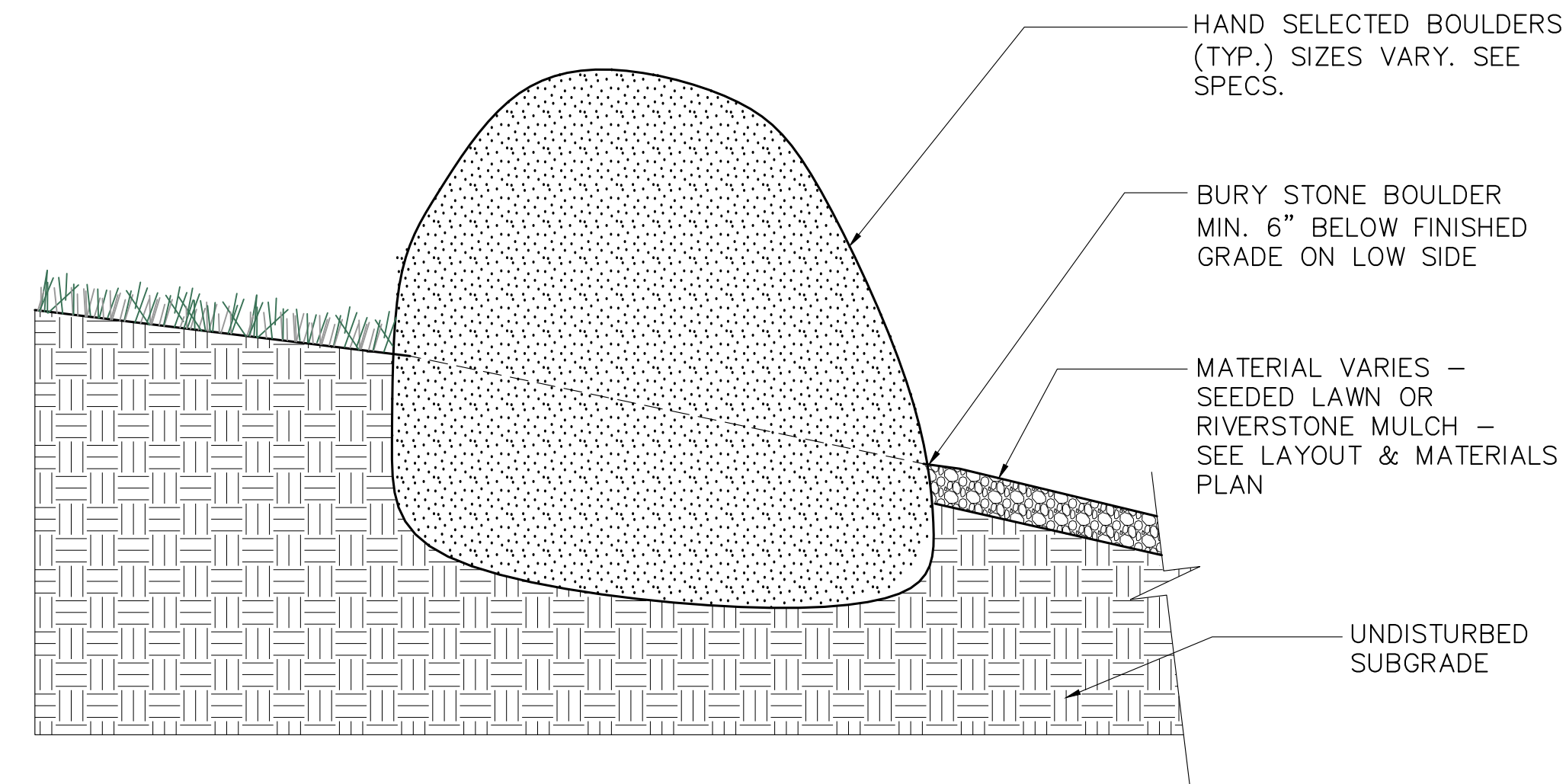


| PLANT SPACING ('A') | ROW SPACING ('B') |
|---------------------|-------------------|
| 6 IN. O.C. | 5 IN. O.C. |
| 8 IN. O.C. | 7 IN. O.C. |
| 10 IN. O.C. | 8-1/2 IN. O.C. |
| 12 IN. O.C. | 10-1/2 IN. O.C. |
| 15 IN. O.C. | 13 IN. O.C. |
| 18 IN. O.C. | 16 IN. O.C. |
| 24 IN. O.C. | 21 IN. O.C. |
| 30 IN. O.C. | 26 IN. O.C. |
| 36 IN. O.C. | 30 IN. O.C. |
| 48 IN. O.C. | 42 IN. O.C. |
| 54 IN. O.C. | 48 IN. O.C. |
| 60 IN. O.C. | 54 IN. O.C. |

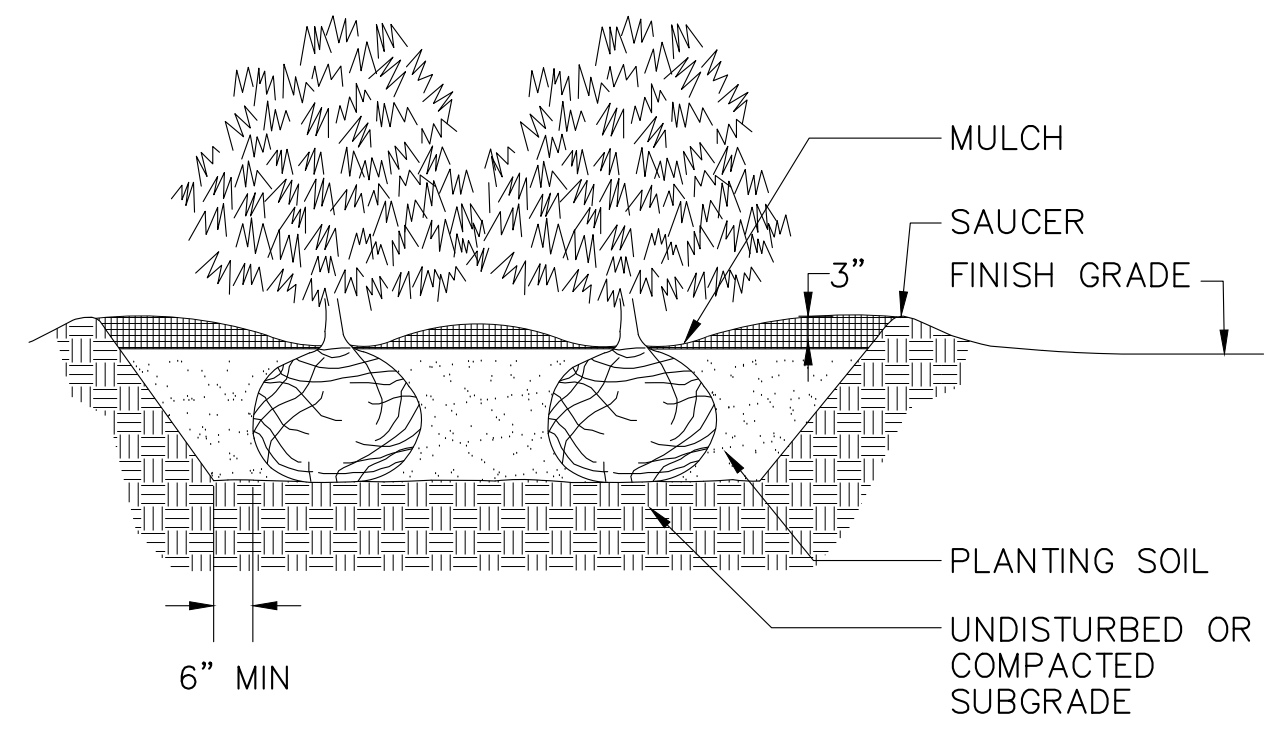
8 GROUND COVER AND SHRUB SPACING CHART
N.T.S.



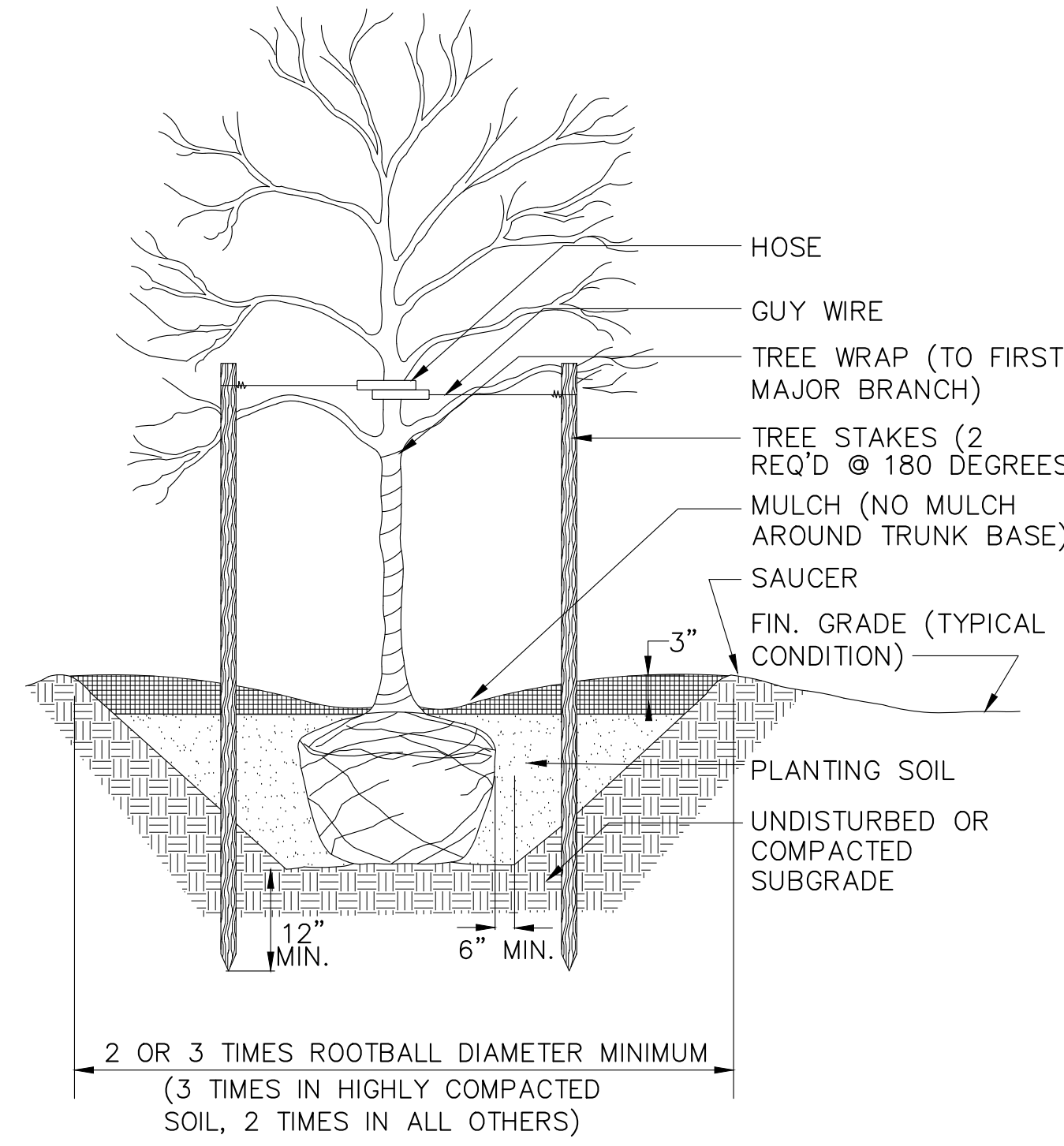
7 TREE PROTECTION FENCING DETAIL
SCALE: 1/4"=1'-0"



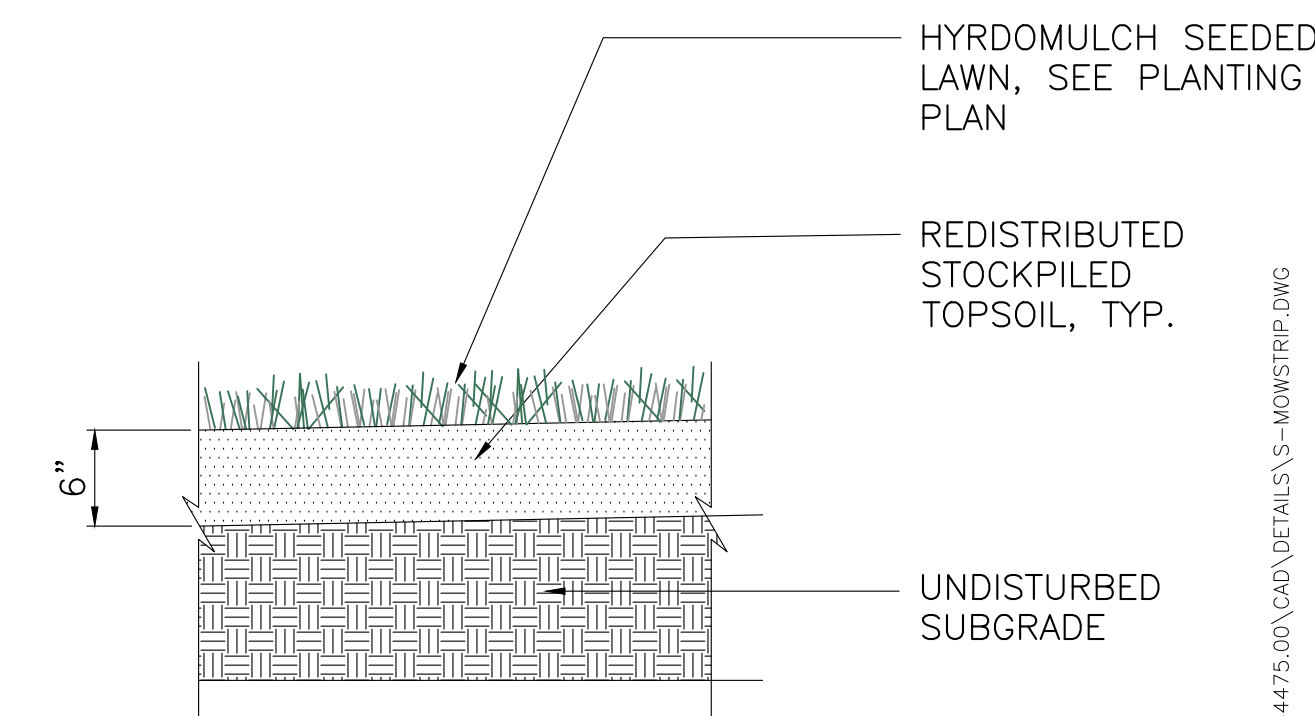
6 LANDSCAPE BOULDER - ALT. #2
SCALE: N.T.S.



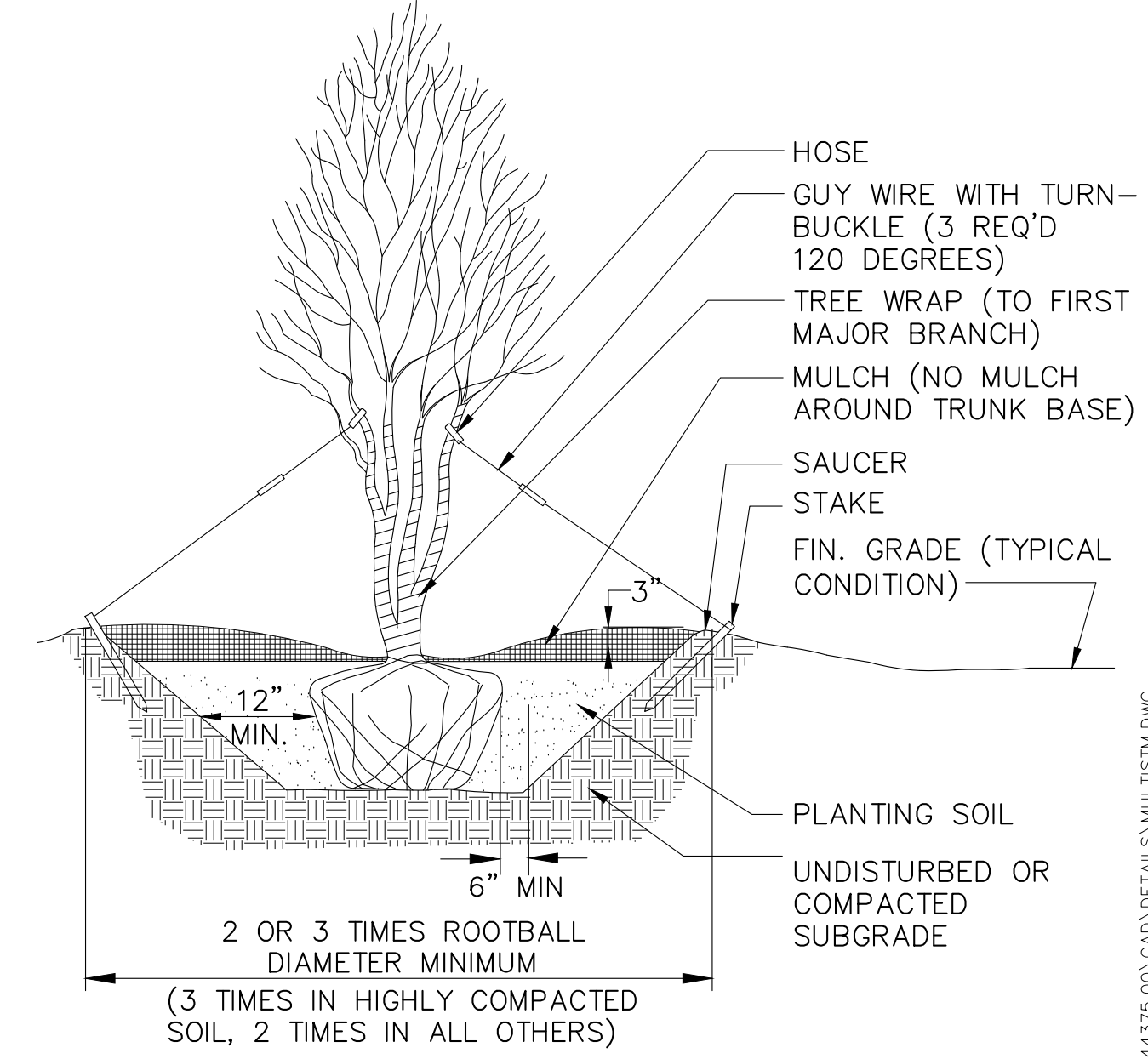
5 SHRUB PLANTING
N.T.S.



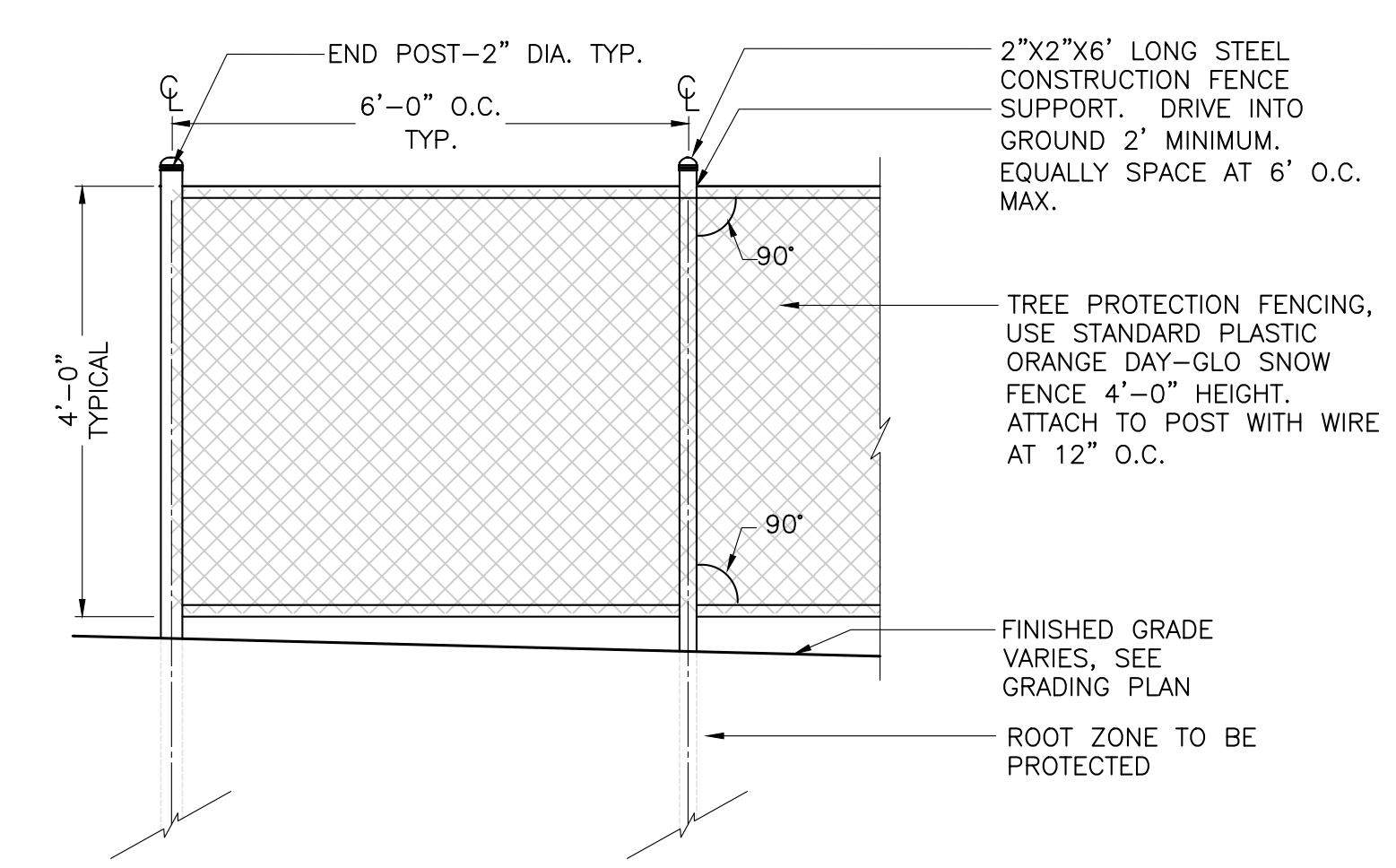
4 DECIDUOUS TREE PLANTING - STAKED (> 4" CALIPER)
N.T.S.



3 LOAM & SEED
SCALE: 1"=1'-0"



2 MULTISTEMMED TREE PLANTING
SCALE: NTS



1 TREE PROTECTION FENCE
1/2"=1'-0"

DESIGN CONSULTANT:

hord | coplan | macht

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| No. | Description | Date |

DWG ISSUE & REVISION HISTORY

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ISSUED FOR BID

Project Title:

MAGNOLIA PARK
ARLINGTON, MA

Drawing Title:

PLANTING DETAILS

Project No. 080215
Drawn By: PWH
Checked By: PWH
Scale: 1"=20'
Date: March 28, 2016

Drawing No. **L7-1**

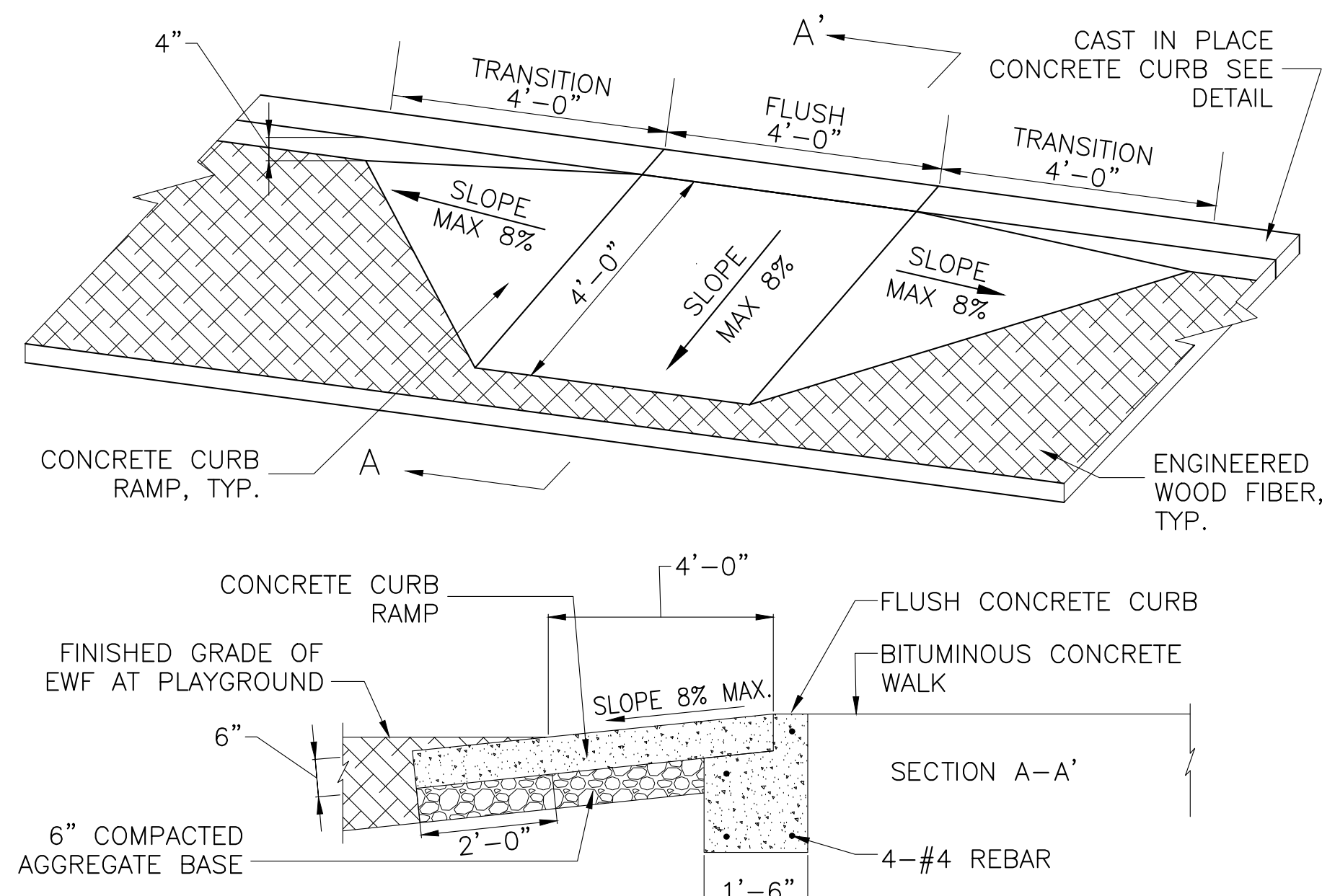
DESIGN CONSULTANT:

hord | coplan | macht

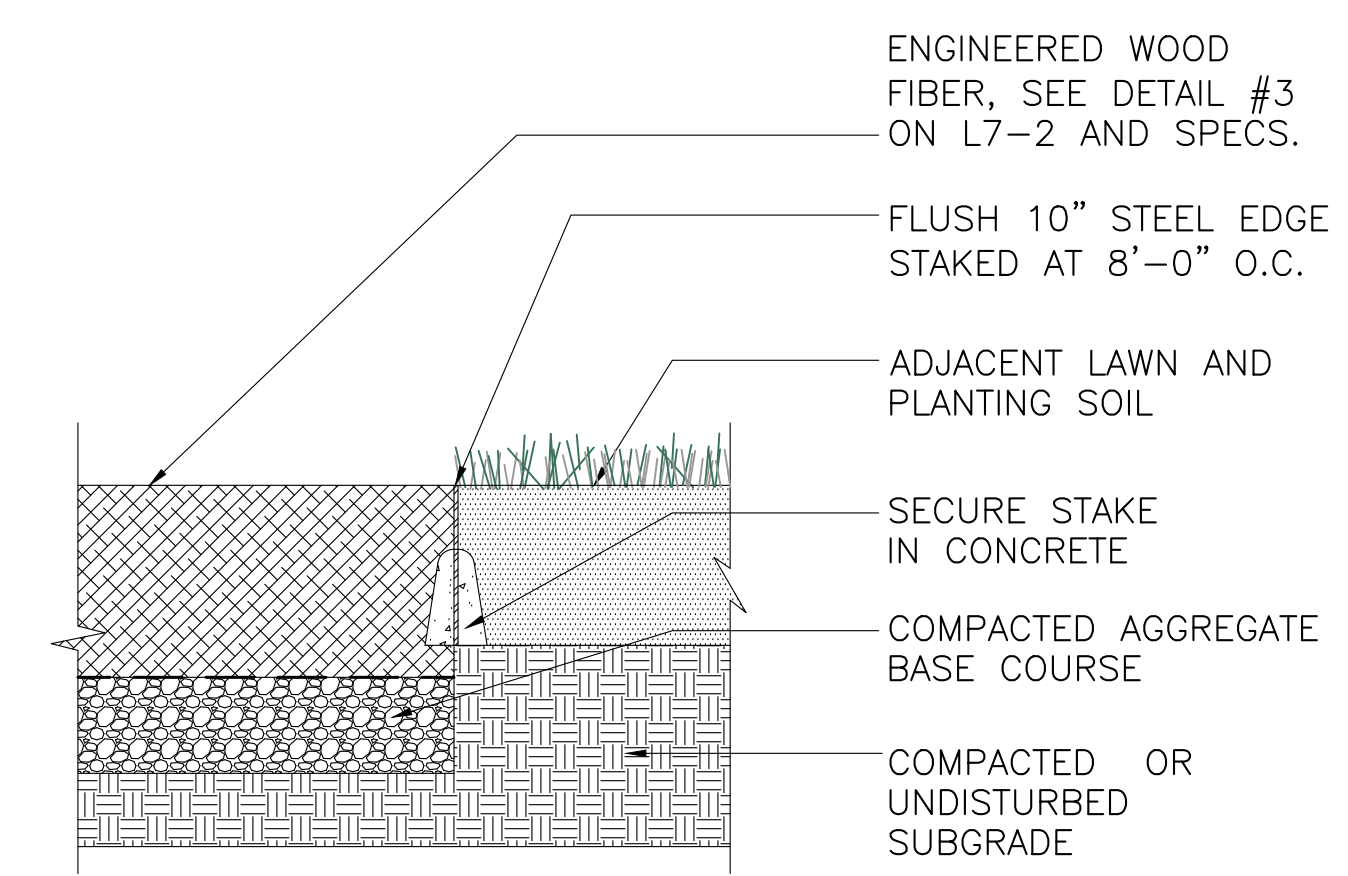
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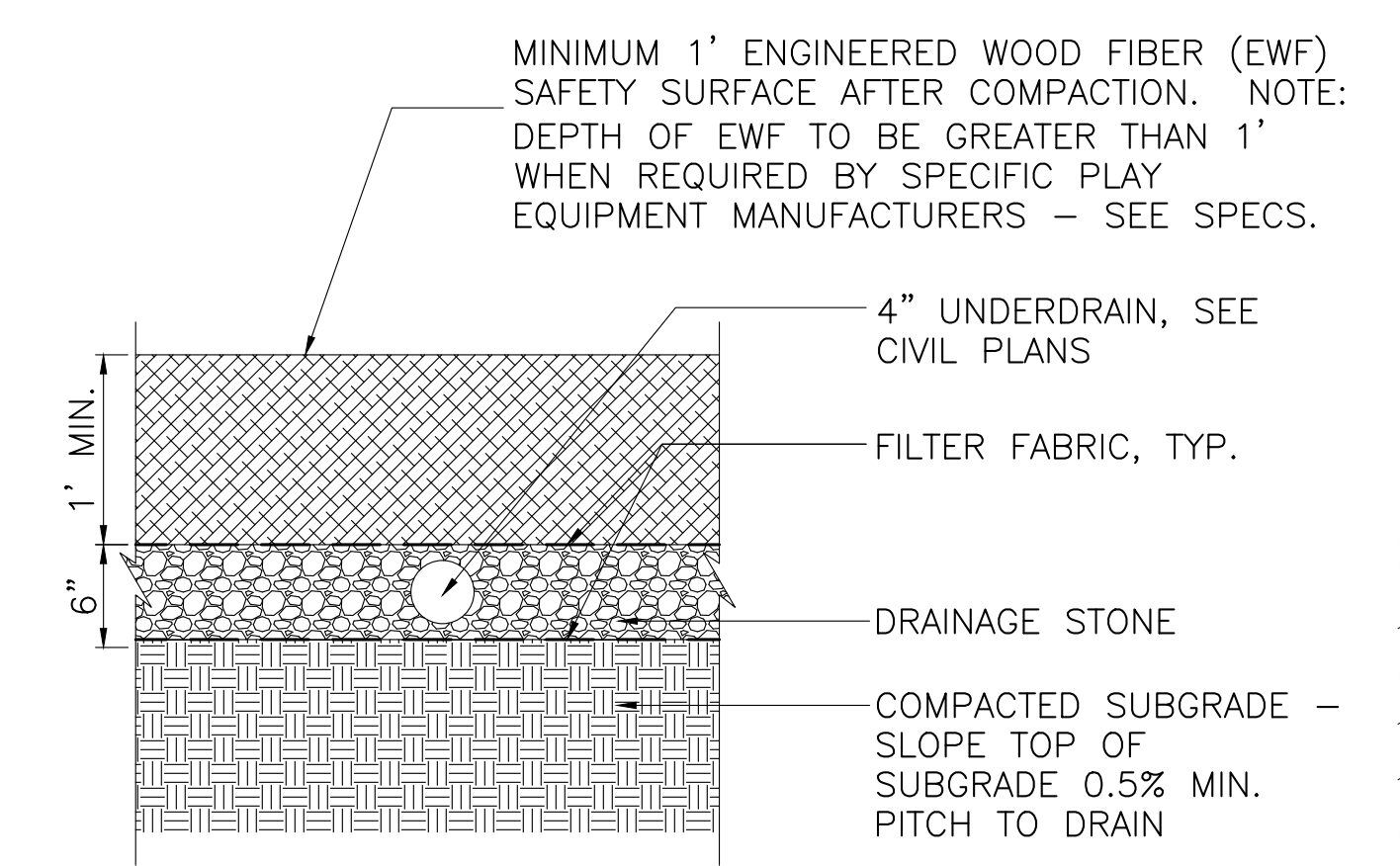
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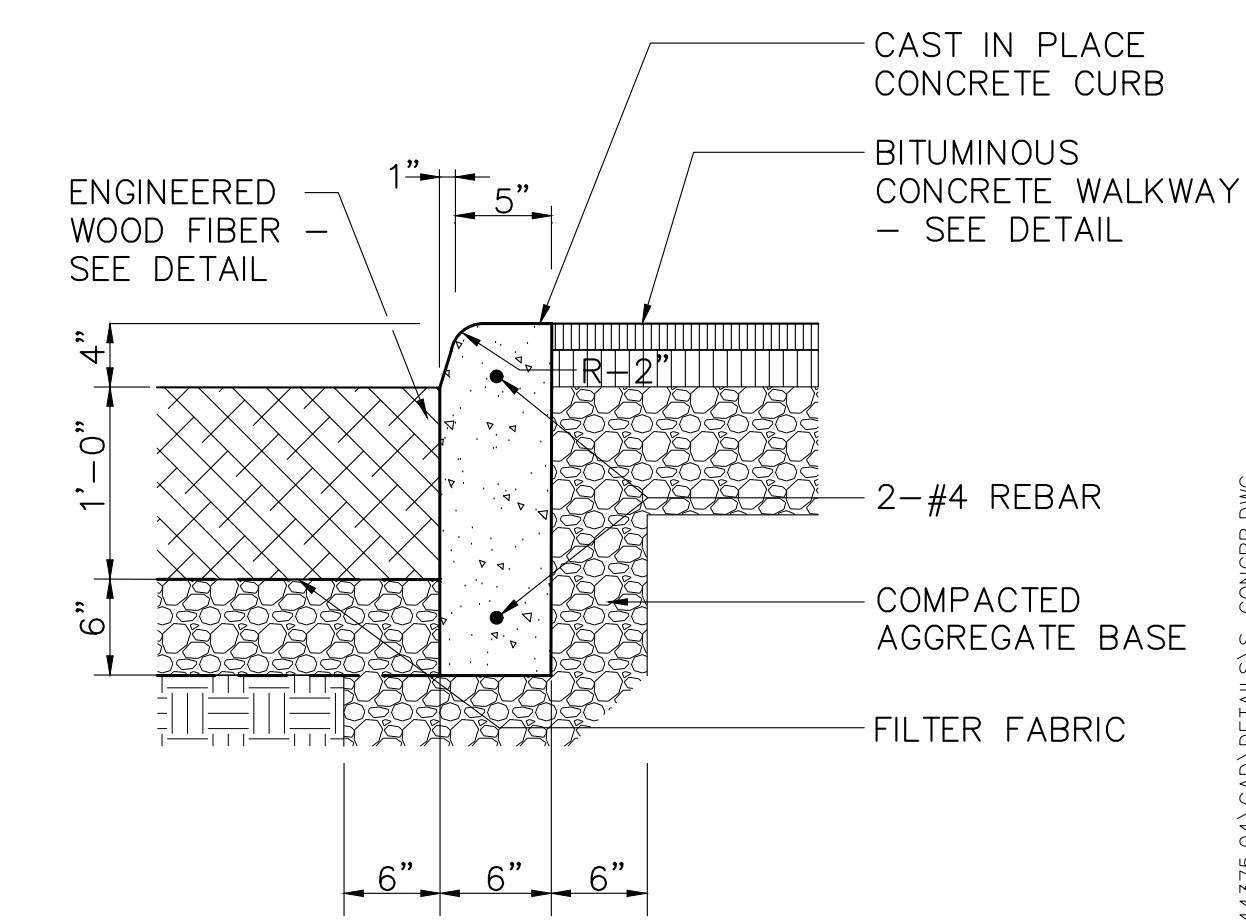
10 CONCRETE CURB RAMP
 N.T.S.



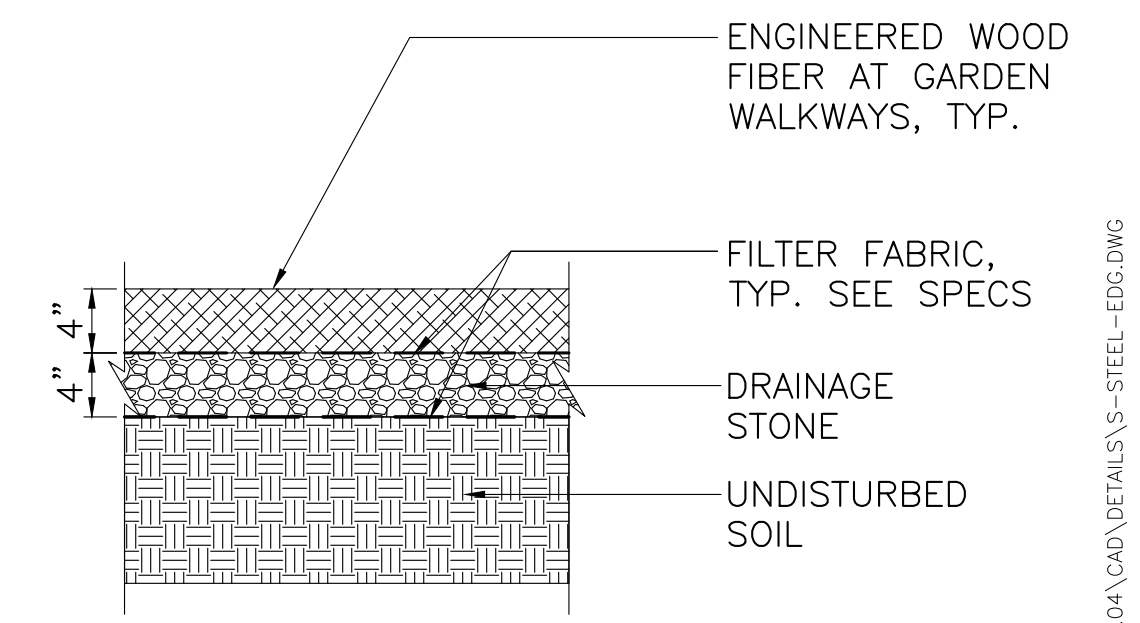
6 STEEL EDGE AT LAWN
 SCALE 1"=1'-0"



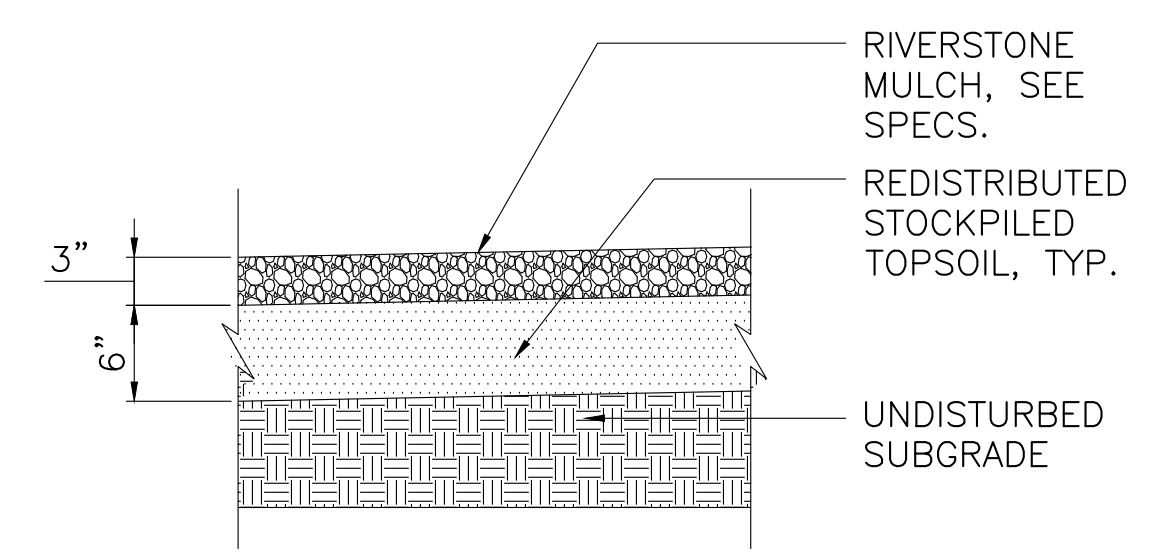
3 ENGINEERED WOOD FIBER SAFETY SURFACE
 SCALE 1"=1'-0"



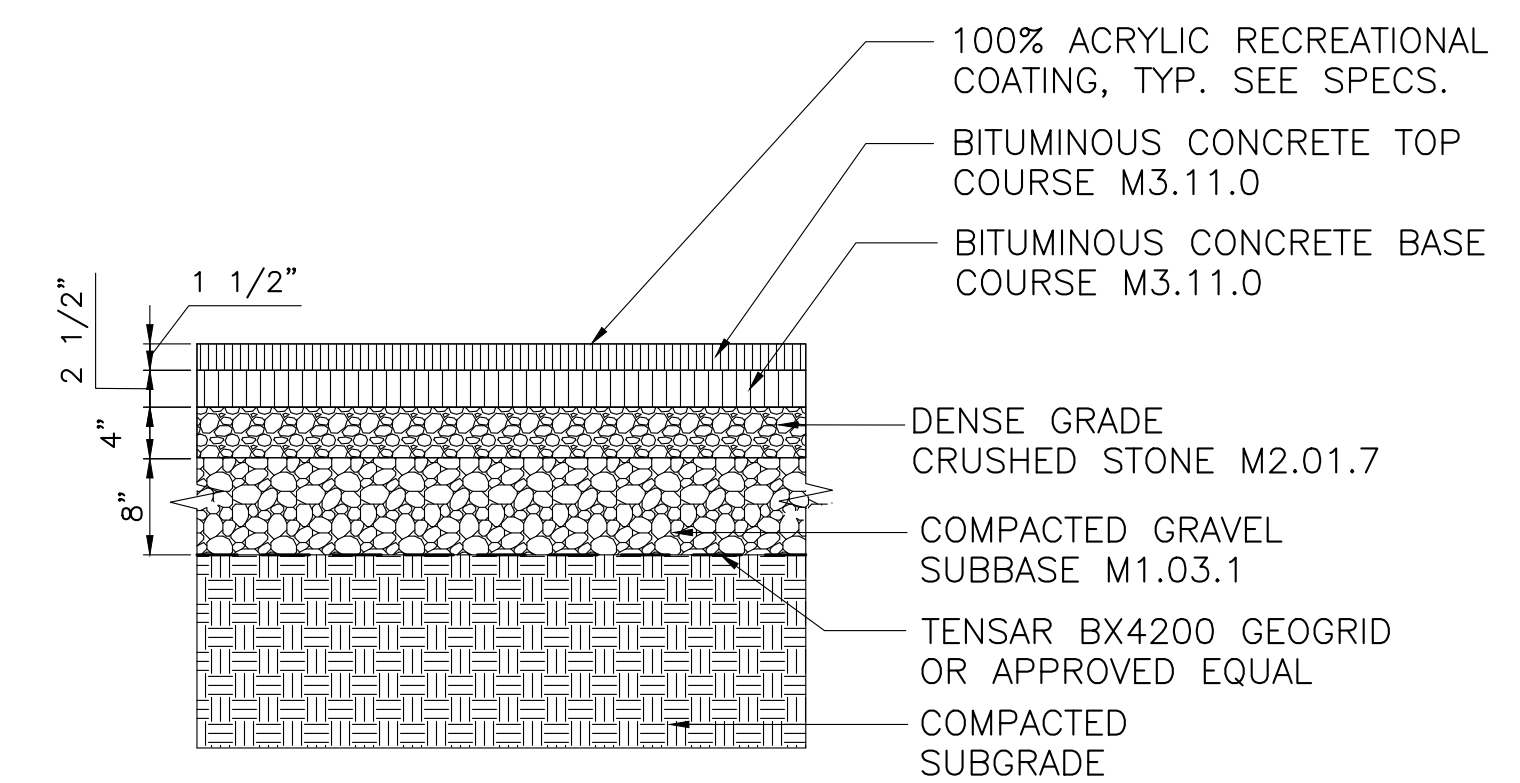
9 CONCRETE CURB AT PLAYGROUND
 N.T.S.



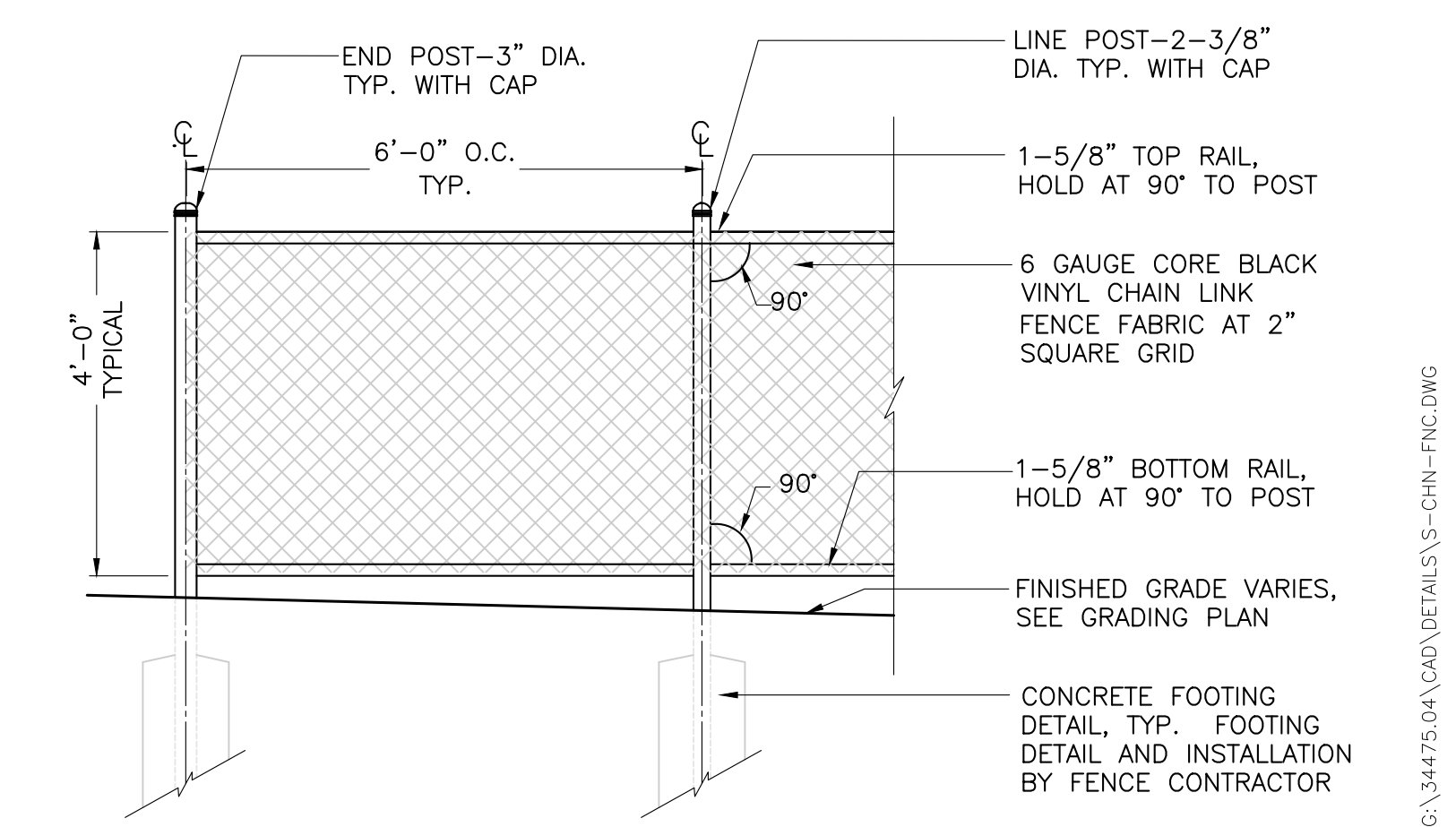
7 ENGINEERED WOOD FIBER AT GARDEN
 SCALE 1"=1'-0"



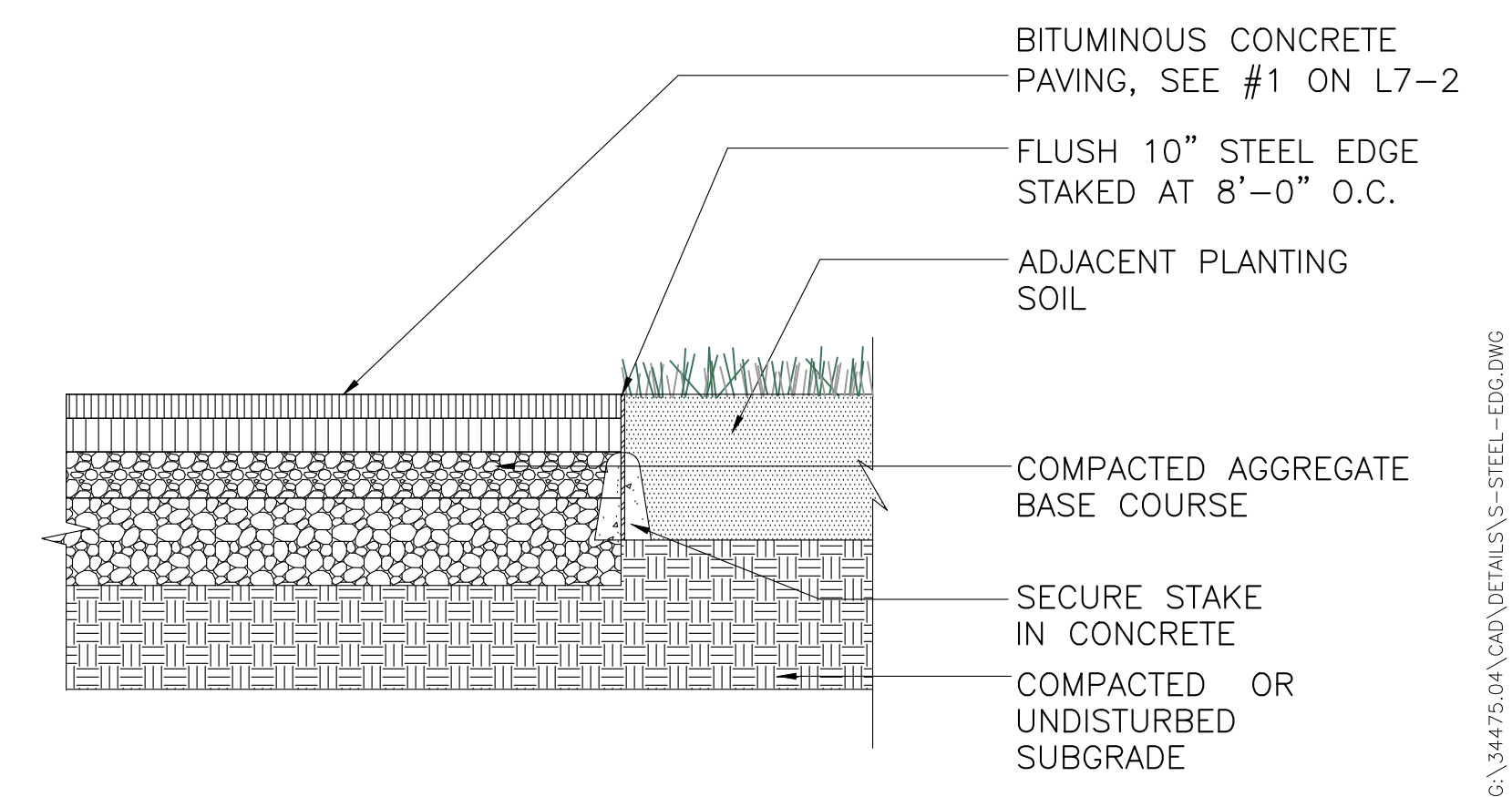
5 RIVERSTONE MULCH
 SCALE 1"=1'-0"



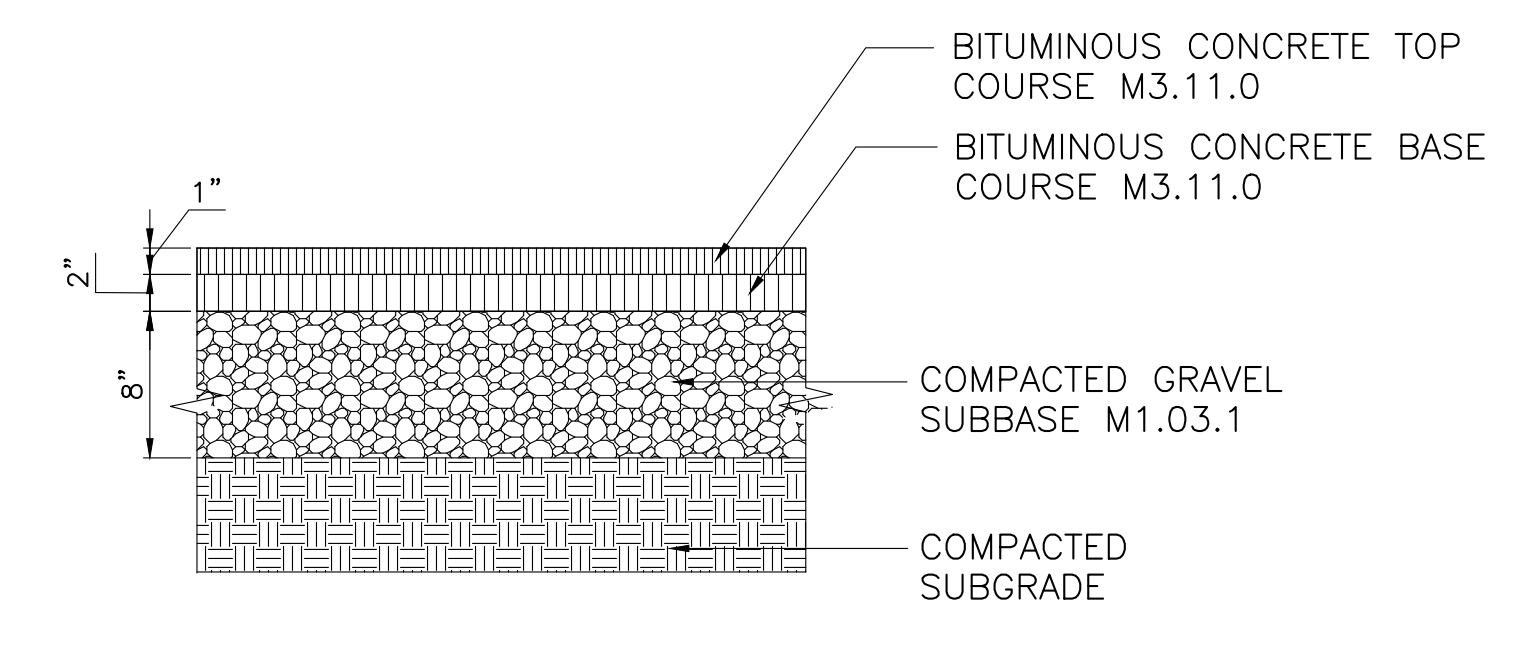
2 BITUMINOUS CONCRETE COURT PAVING
 SCALE: N.T.S.



8 CHAIN LINK GARDEN FENCE
 1/2"=1'-0"



4 STEEL EDGE AT BITUMINOUS CONCRETE - ALT. #5
 SCALE 1"=1'-0"



1 BITUMINOUS CONCRETE WALKWAY PAVING
 SCALE: N.T.S.

| 1 | ISSUED FOR BID | 3-28-2016 |
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| No. | Description | Date |
| DWG ISSUE & REVISION HISTORY | | |

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ISSUED FOR BID

Project Title:

MAGNOLIA PARK
 ARLINGTON, MA

Drawing Title:

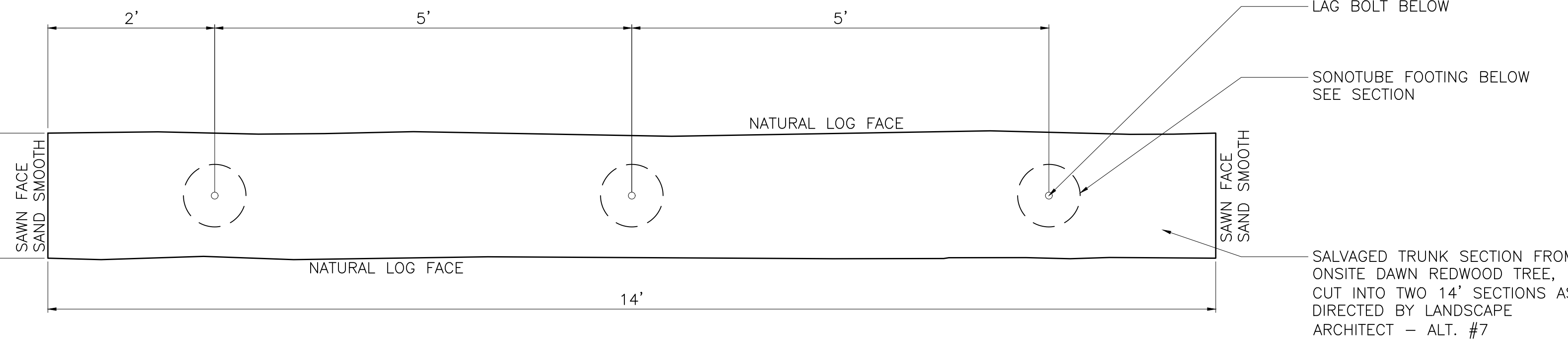
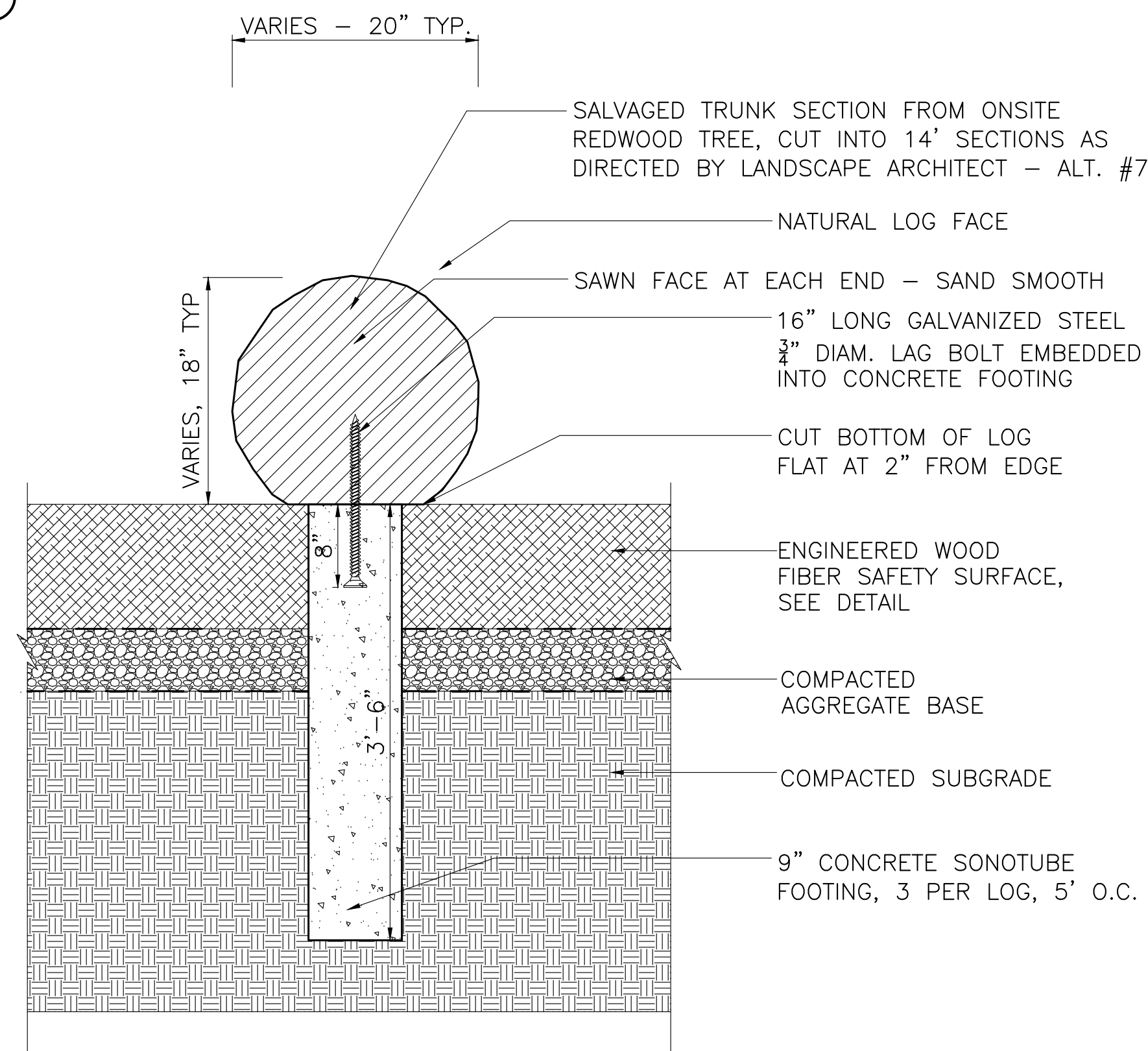
SITE CONSTRUCTION
 DETAILS

Project No. 080215
 Drawn By: PWH
 Checked By: PWH
 Scale: 1"=20'
 Date: March 28, 2016

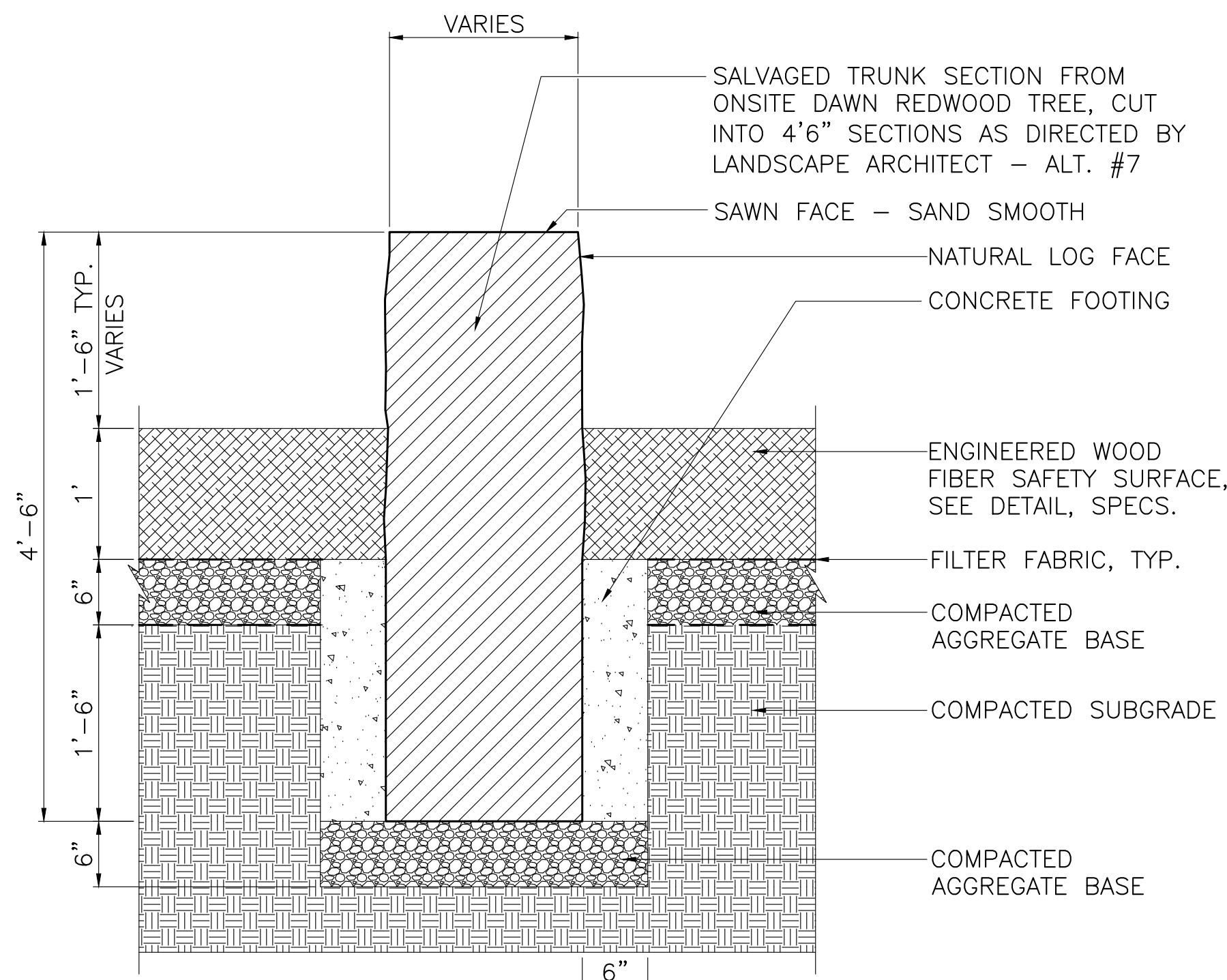
Drawing No. **L7-2**

| PLANT SCHEDULE | | | | | | |
|----------------------|-----------|-------------------------------------|--|------------------|-----------|------------|
| Symbol | Qty | Botanical Name | Common Name | Size | Condition | Comments |
| TREES | | | | | | |
| SA | 1 | Salix alba 'Tristis' | 'Tristis' Weeping-Gold White Willow | 3-3 1/2" caliper | B&B | - |
| MV | 3 | Magnolia virginiana | Sweetbay Magnolia | 2-2 1/2" caliper | B&B | multi-stem |
| AC | 3 | Amelanchier canadensis | Shadblow serviceberry | 6-8' height | B&B | Alt. #6 |
| QB | 5 | Quercus bicolor | Swamp White Oak | 2'-3" caliper | B&B | Alt. #6 |
| CC | 5 | Cercis canadensis | Eastern Redbud | 6-8' tall | B&B | Alt. #6 |
| TD | 2 | Nyssa sylvatica | Black Gum | 2 1/2-3" caliper | B&B | - |
| GT | 6 | Gleditsia triacanthos 'Shademaster' | 'Shademaster' Thornless Common Honeylocust | 2 1/2-3" caliper | B&B | - |
| LS | 1 | Liquidambar styraciflua 'Moraine' | 'Moraine' Sweetgum | 2 1/2-3" caliper | B&B | - |
| UA | 5 | Ulmus Americana 'Princeton' | 'Princeton' American Elm | 2 1/2-3" caliper | B&B | - |
| MG | 1 | Metasequoia glyptostroboides | Dawn Redwood | 2 1/2-3" caliper | B&B | - |
| SHRUBS & GROUNDCOVER | | | | | | |
| CS | 90 | Iris versicolor | Northern Blue Flag Iris | #1 pot | Container | 18" o.c. |
| VA | 50 | Vaccinium angustifolium | Lowbush Blueberry | #3 pot | Container | 18" o.c. |
| RP | 14 | Rosa palustris | Swamp Rose | #5 pot | Container | 42" o.c. |
| PV | 21 | Panicum virgatum 'Cloud Nine' | 'Cloud Nine' Switch Grass | #5 pot | Container | 36" o.c. |
| LB | 6 | Myrica pensylvanica | Bayberry | 3-4' height | Container | - |
| - | see plans | Lawn Seed Mix | see specs | - | - | - |
| - | see plans | Meadow Seed Mix #2 | see specs | - | - | Alt. #6 |

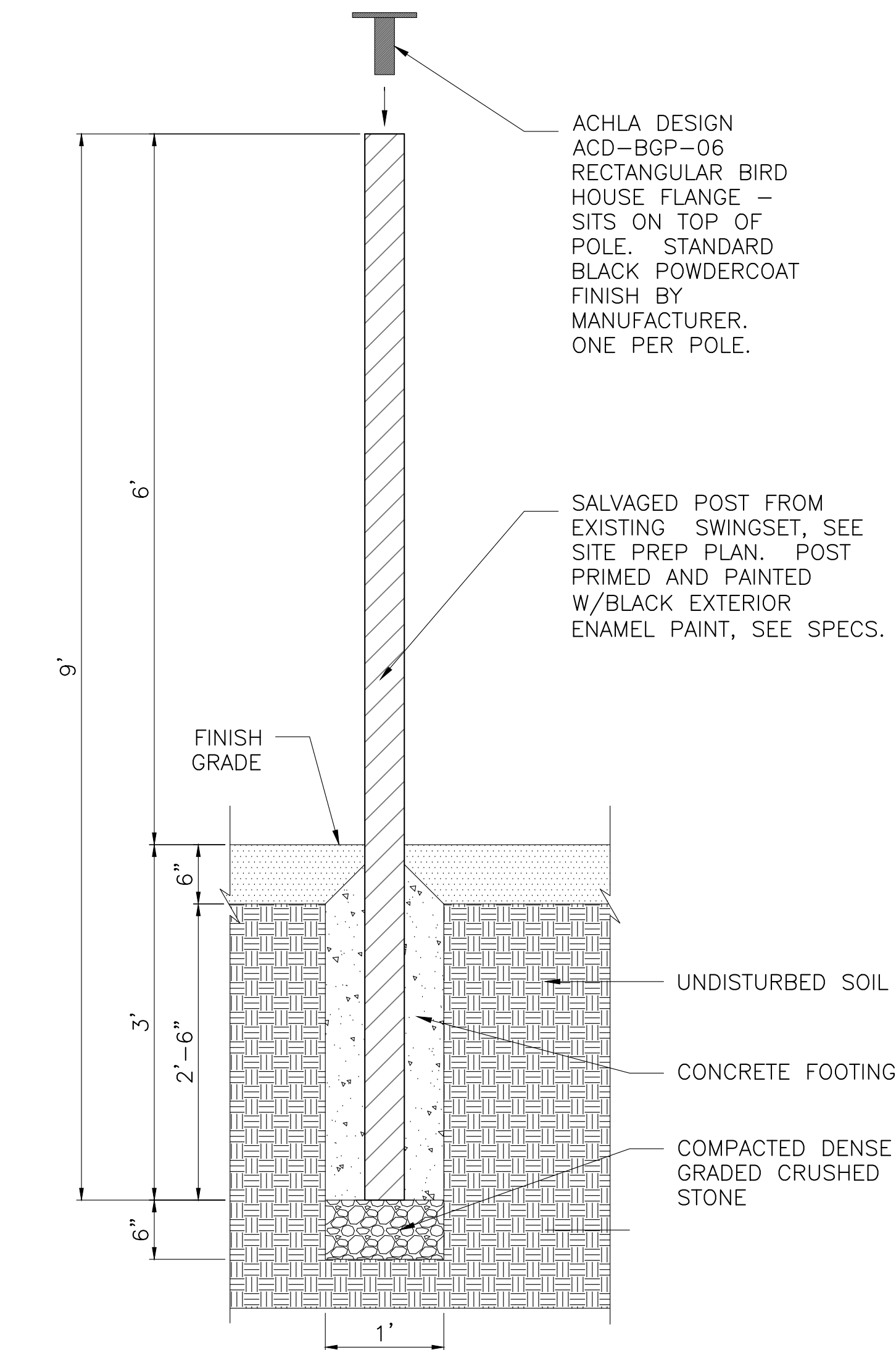
5 PLANT LIST



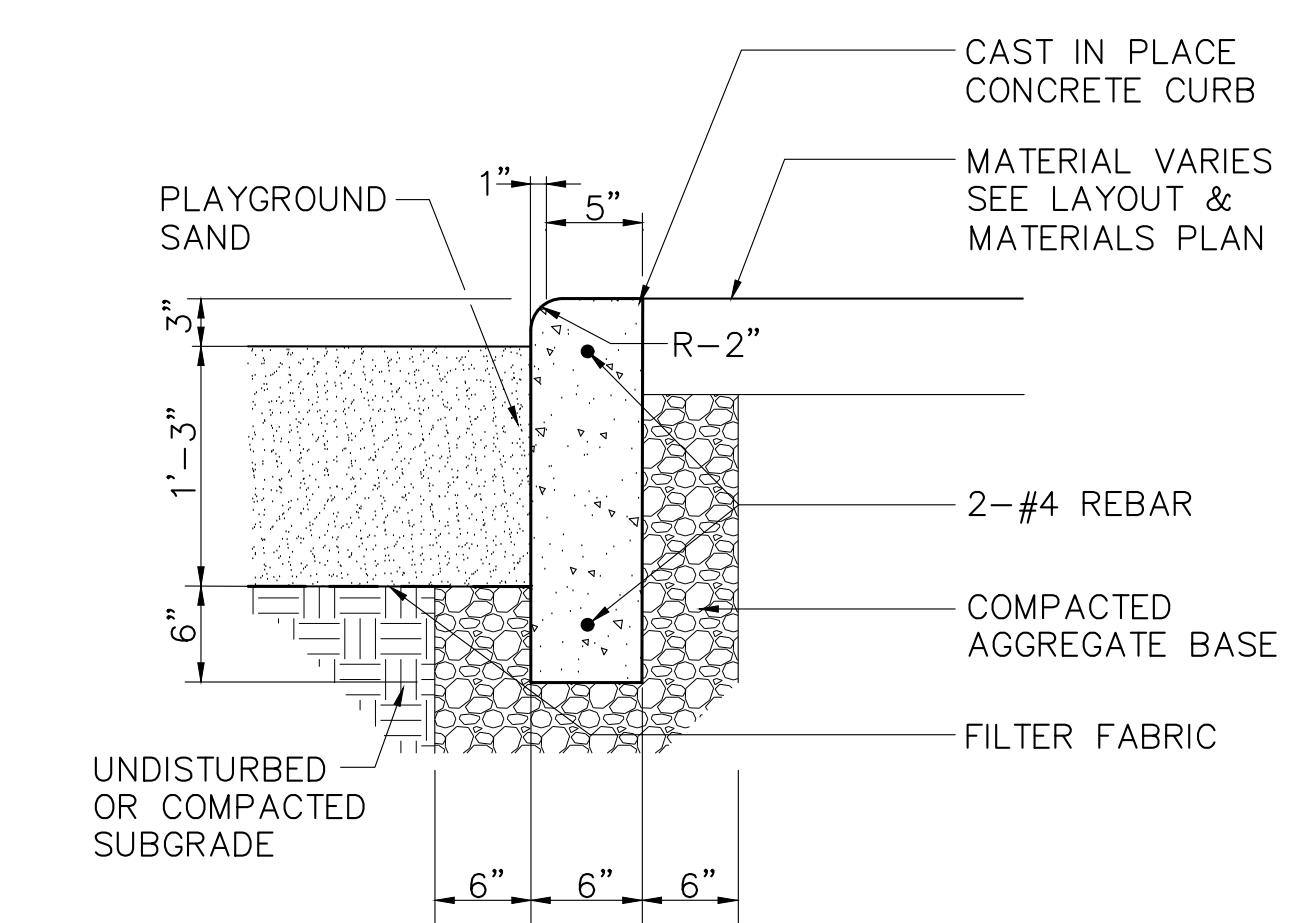
4 LOG BALANCE BEAM - ALT. #7
SCALE 1"=1'-0"



3 STUMP STEPPER - ALT. #7
SCALE 1"=1'-0"



2 BIRDHOUSE POLE - ALT. #7
SCALE 1"=1'-0"



1 SAND BOX EDGE - CONCRETE CURB
SCALE: 1"=1'-0"

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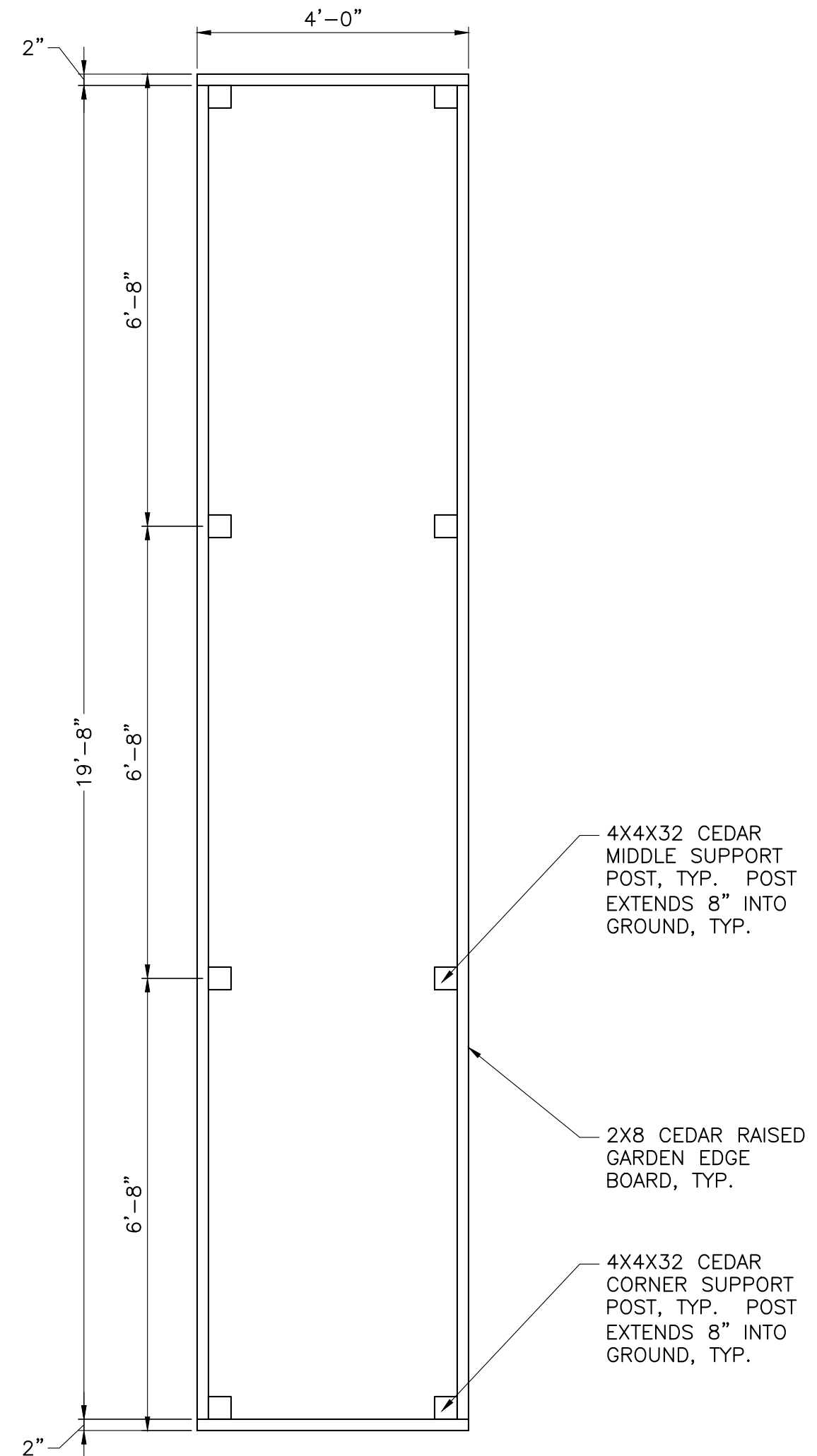
Drawing Title:
**SITE CONSTRUCTION
DETAILS**

Project No. 080215
Drawn By: PWH
Checked By: PWH
Scale: 1"=20'
Date: March 28, 2016

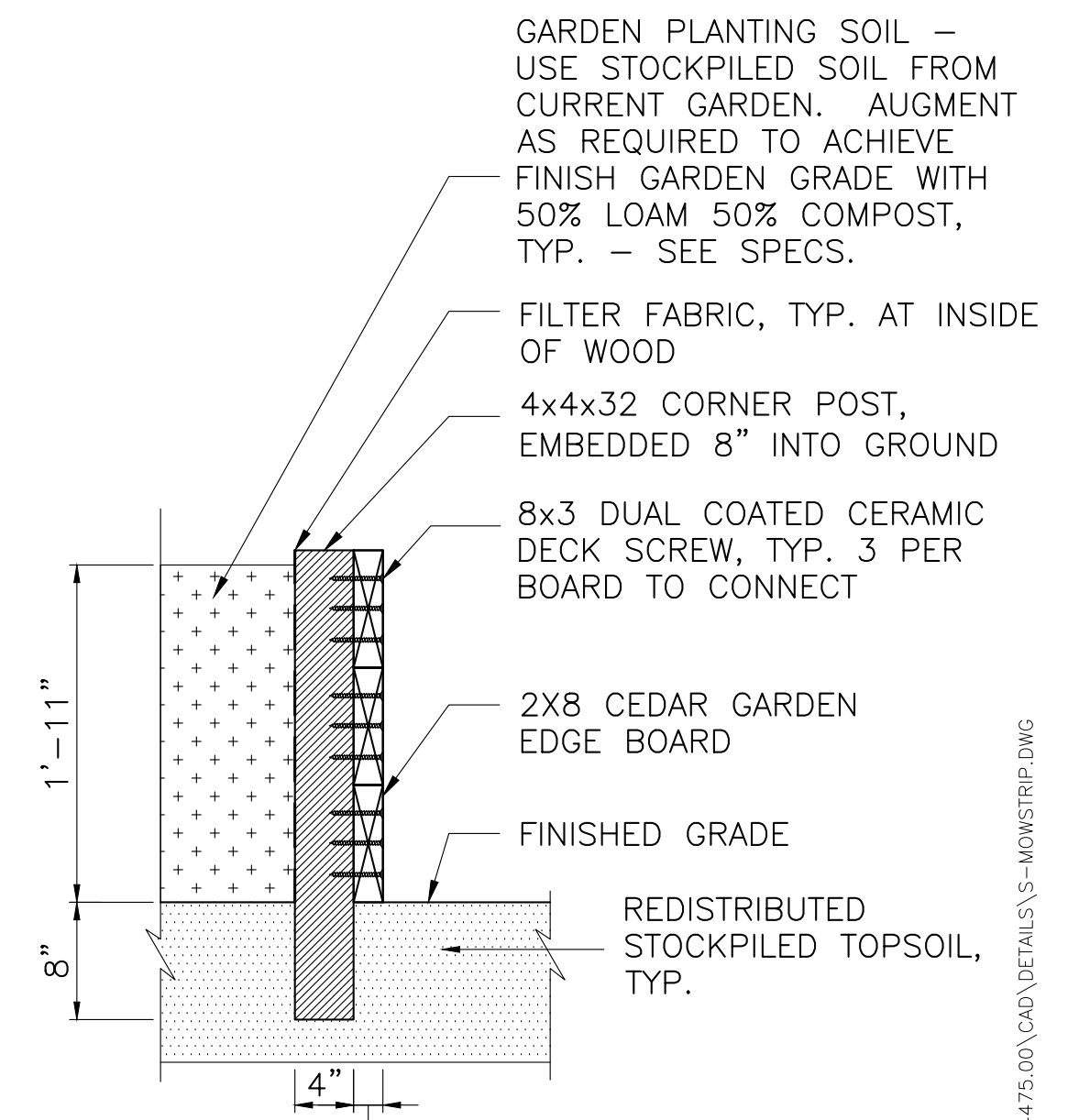
Drawing No. **L7-3**

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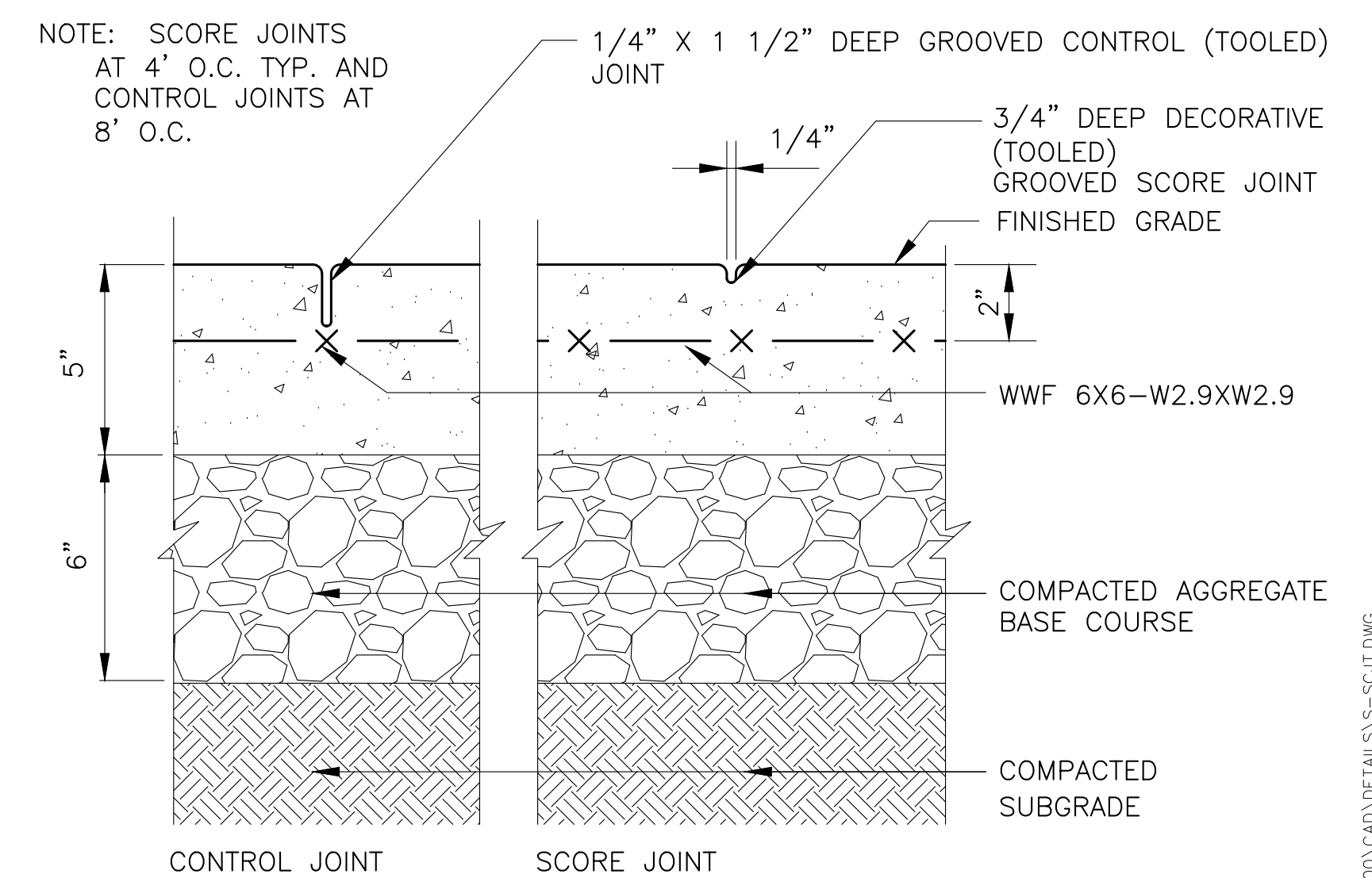
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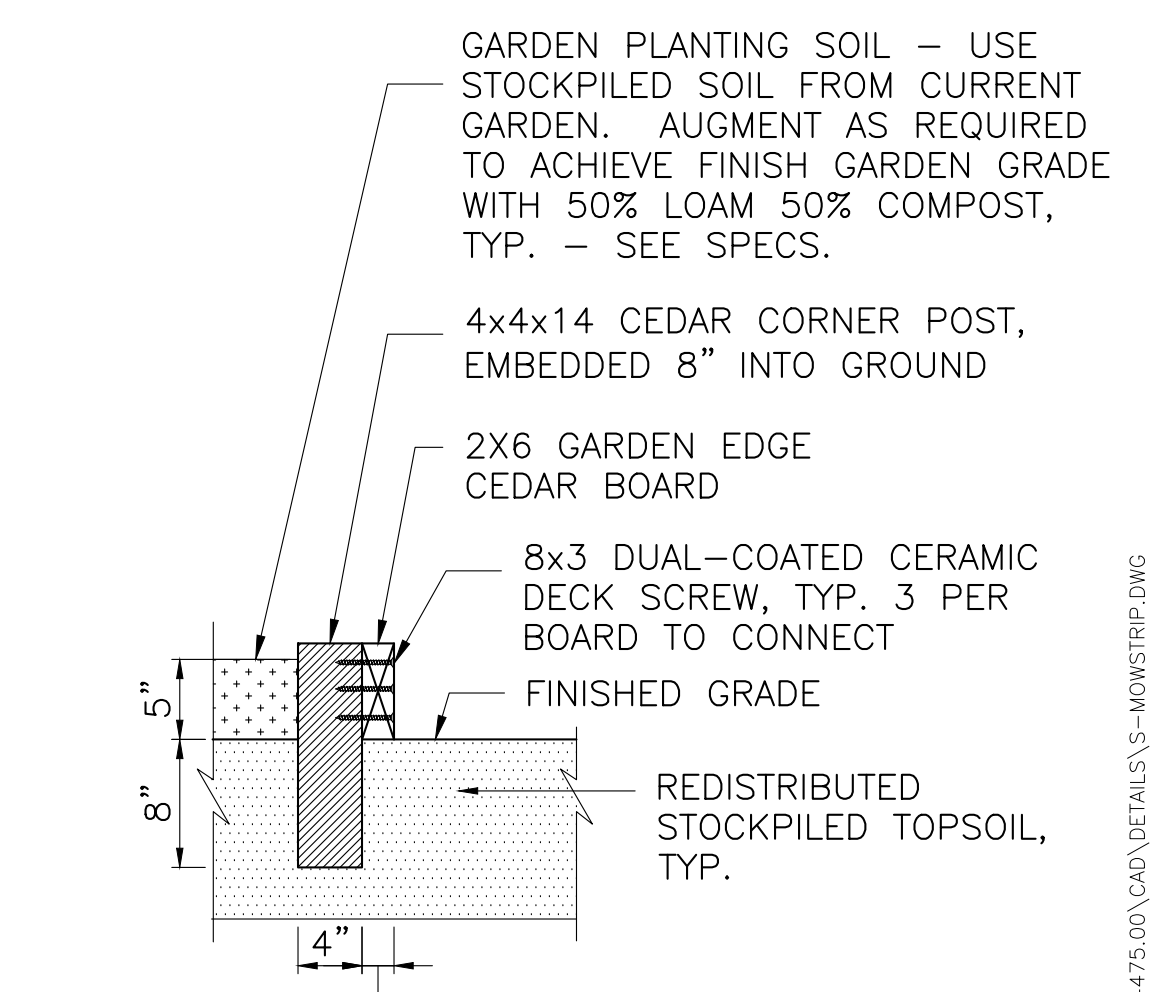
6 RAISED GARDEN BED LAYOUT
SCALE 1/2"=1'-0"



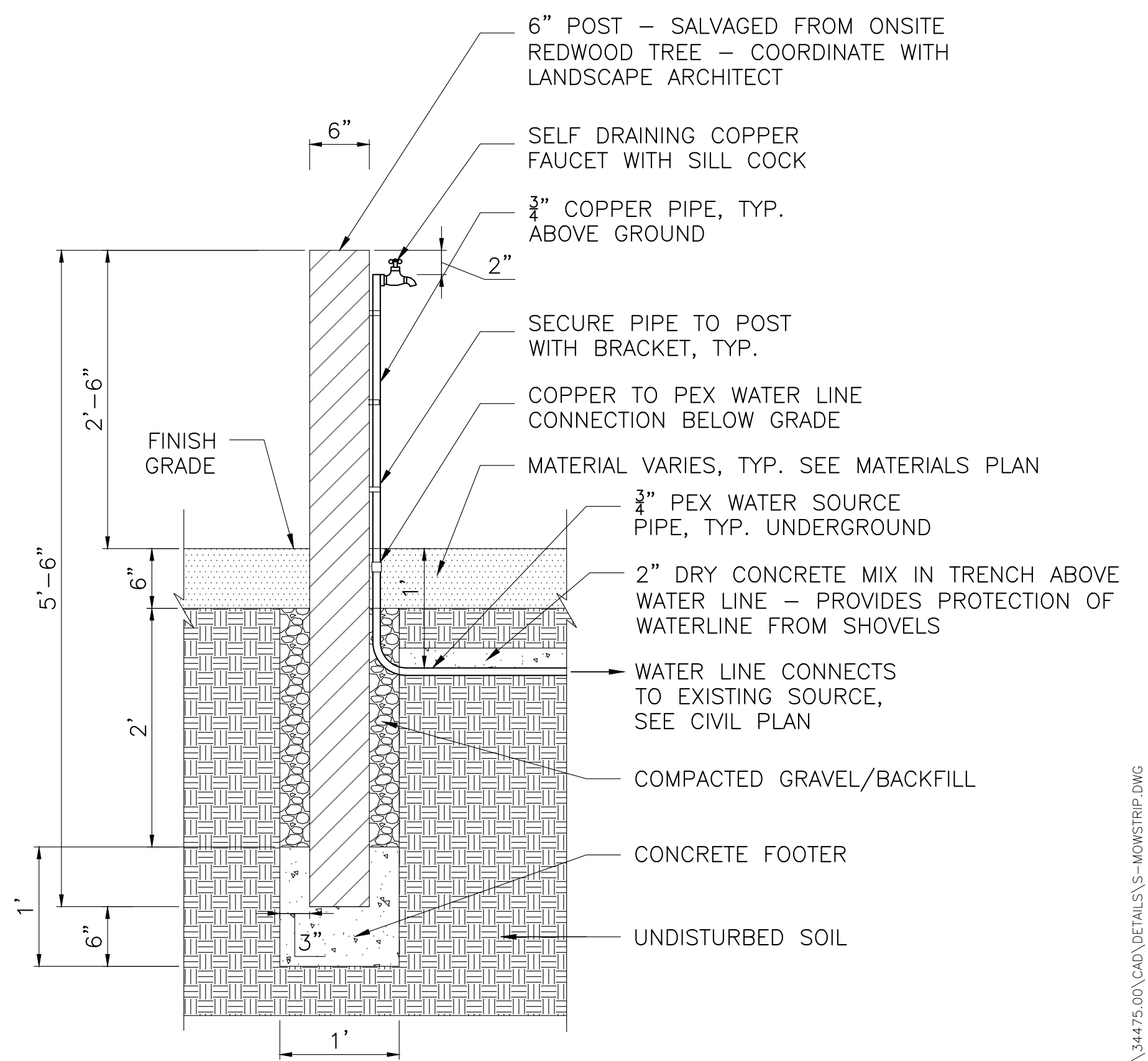
4 RAISED GARDEN BED CORNER
SCALE 1"=1'-0"



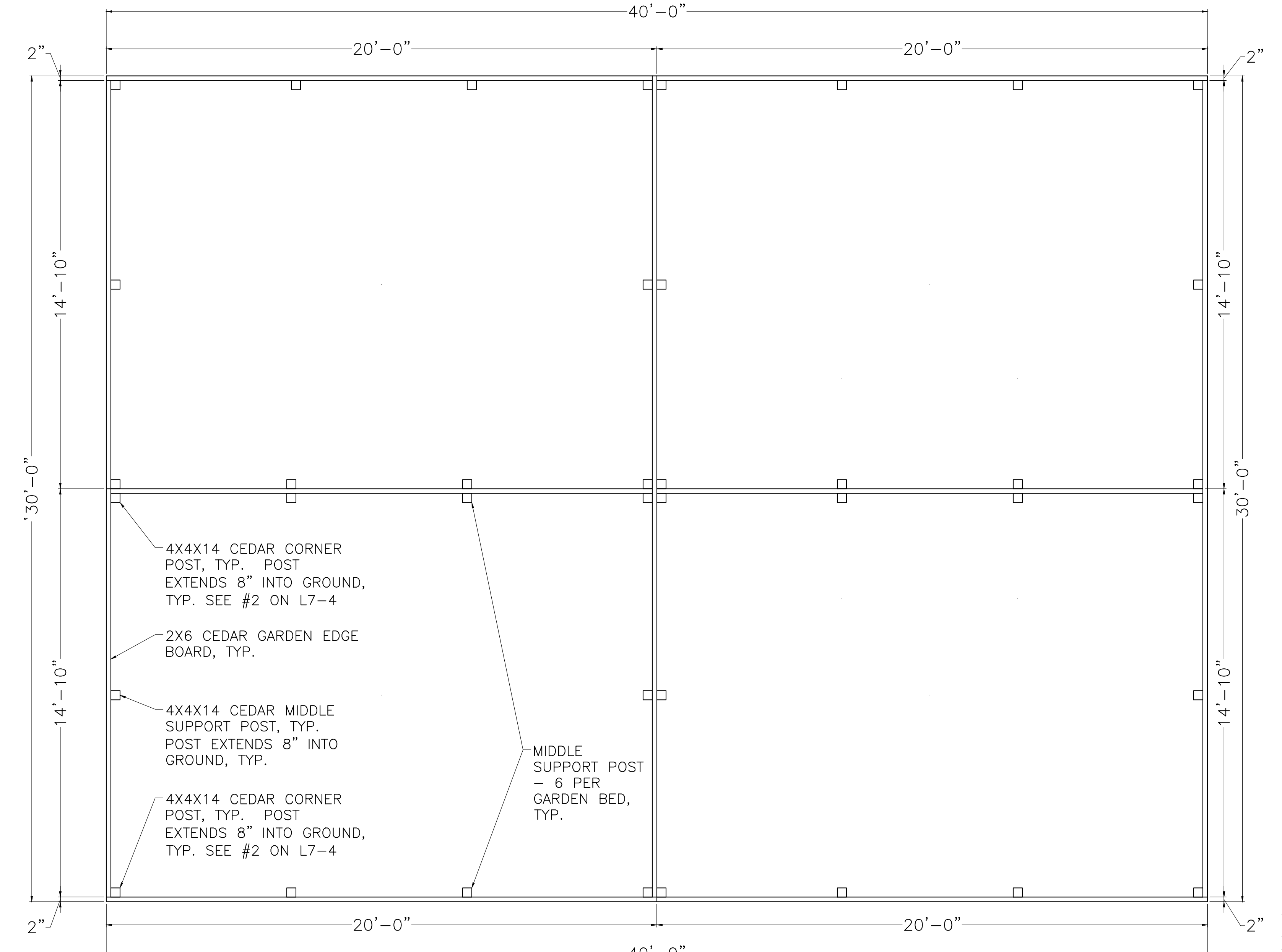
3 CAST IN PLACE CONCRETE PAVING
SCALE: 3"=1'-0"



2 GARDEN BED CORNER
SCALE 1"=1'-0"



5 GARDEN HOSE BIB AND POST DETAIL
SCALE 1"=1'-0"



1 GARDEN LAYOUT
N.T.S.

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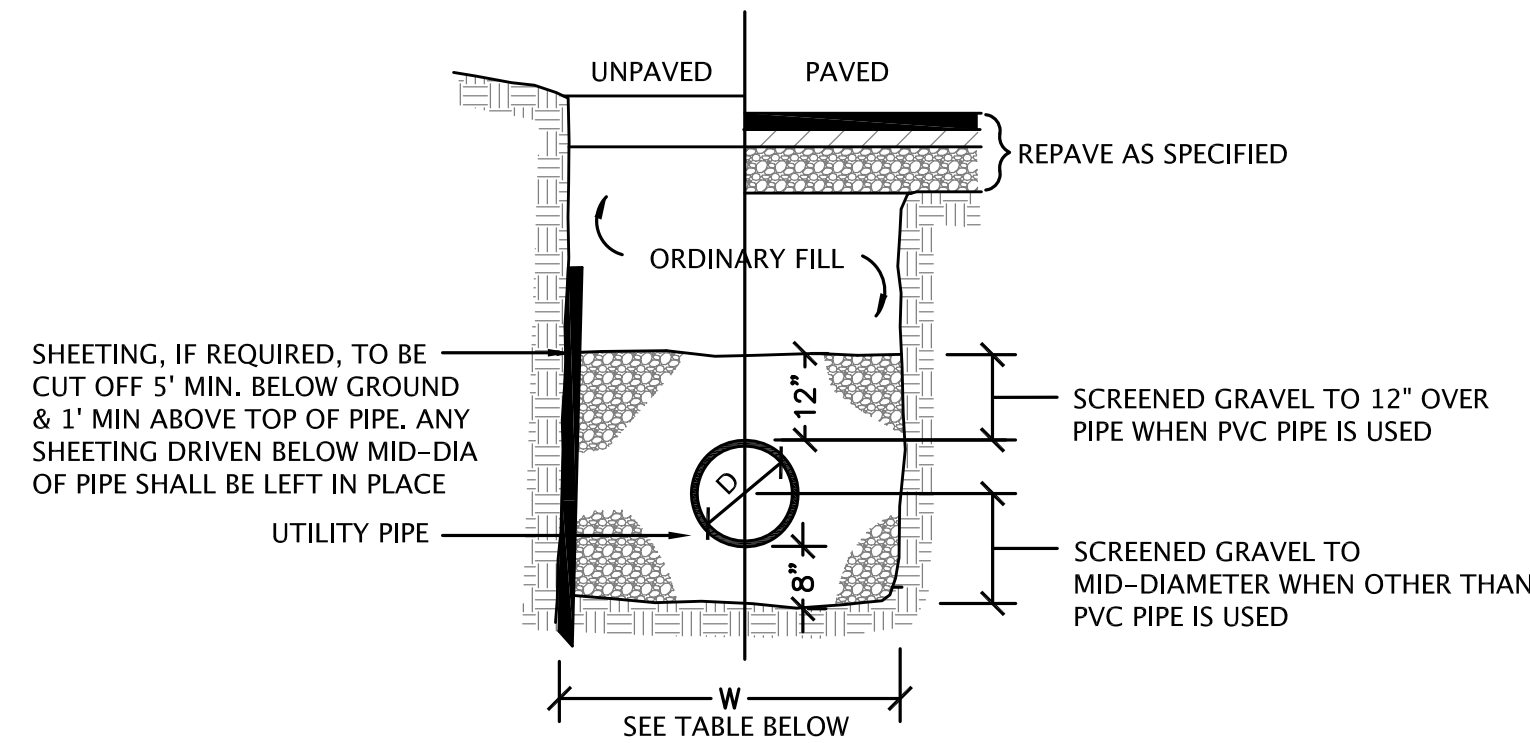
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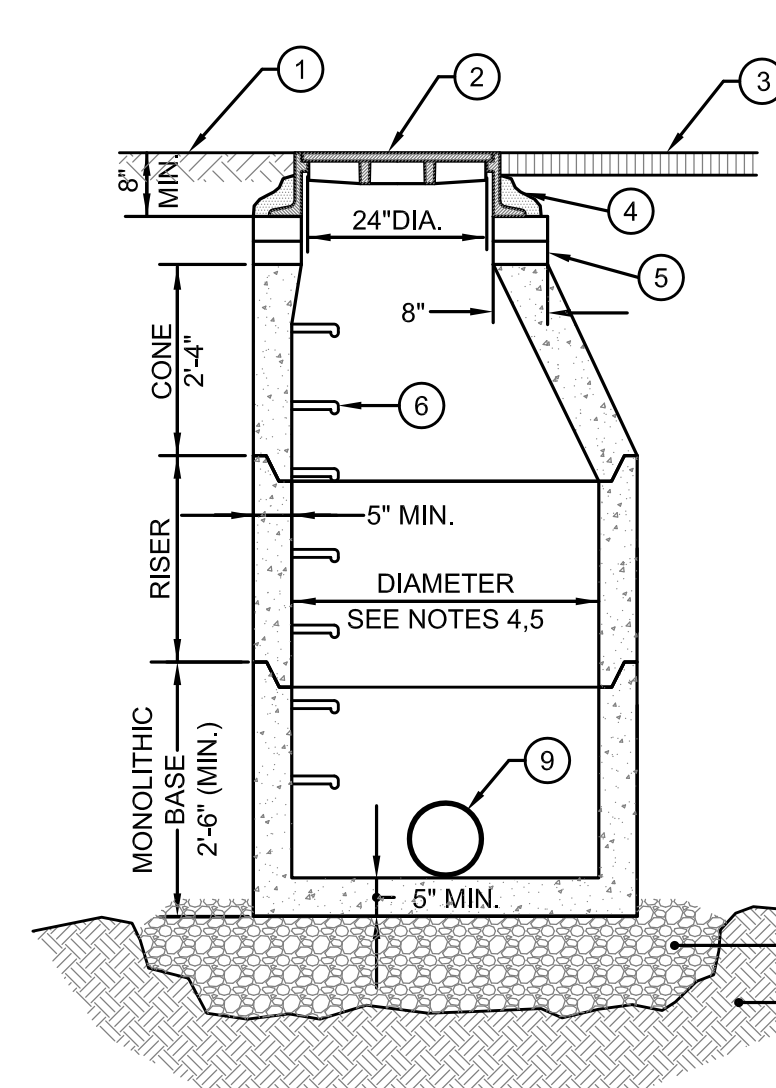
Drawing Title:
**SITE CONSTRUCTION
DETAILS**

Project No. 080215
Drawn By: PWH
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Scale: 1"=20'
Date: March 28, 2016

Drawing No. **L7-4**

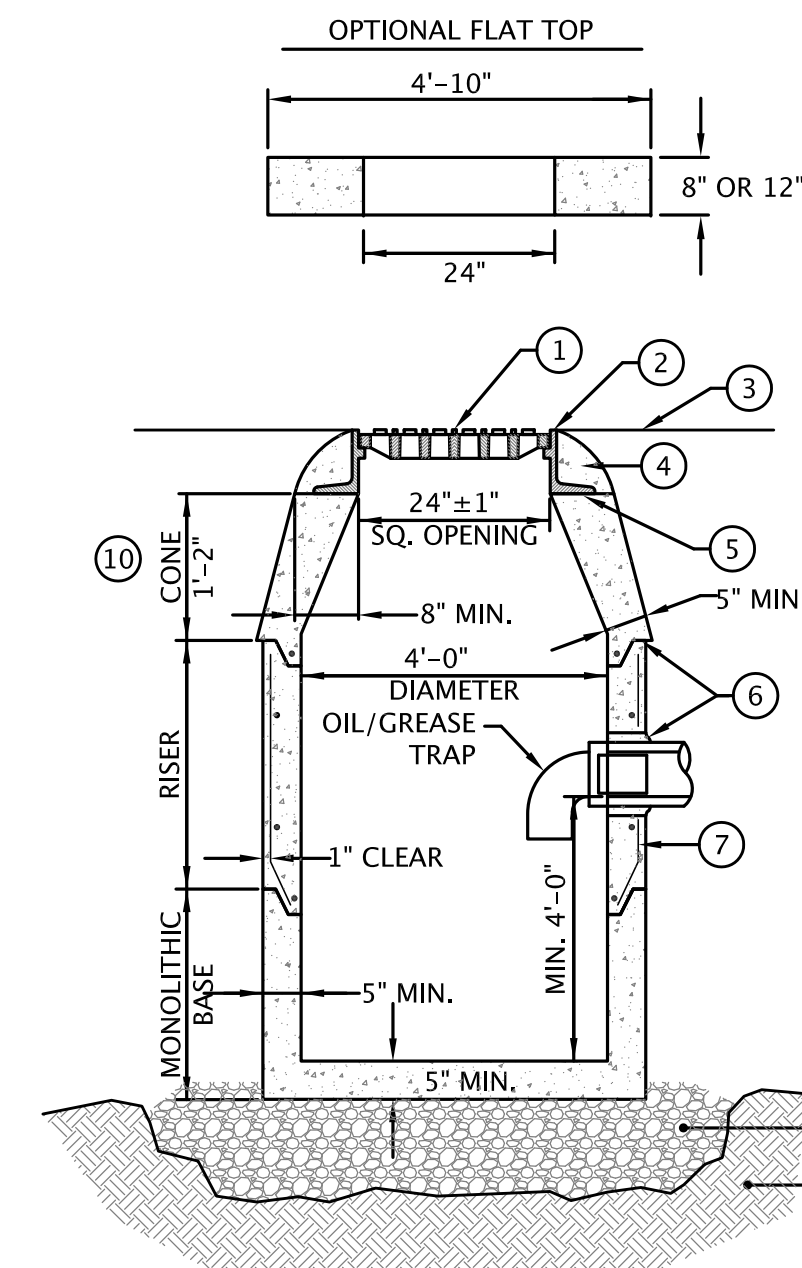


TYPICAL PIPE TRENCH SECTION
NOT TO SCALE



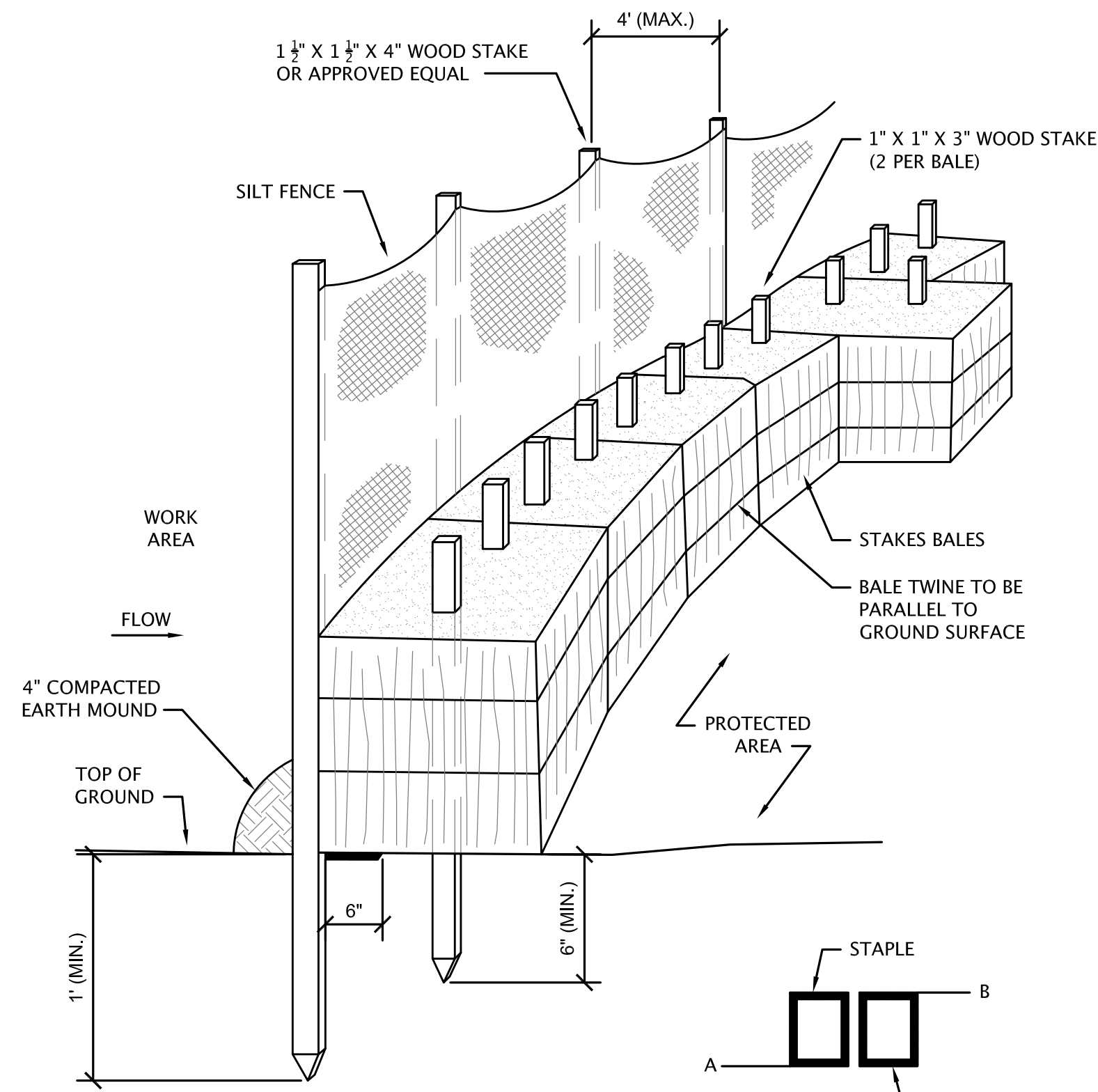
- UNPAVED SURFACE
 - HEAVY DUTY CAST IRON MANHOLE FRAME & COVER, TYPE 'B', TO BE SET IN FULL BED OF MORTAR WITH 24" DIA. CLEAR OPENING
 - PAVED SURFACE
 - FRAME TO BE SET IN FULL BED OF MORTAR
 - ADJUST TO GRADE WITH BRICK OR PRECAST CONCRETE RINGS: MAX. 8" ADJUSTMENT
 - MANHOLE STEP @ 12" O.C. (TYP)
 - 12" COMPACTED GRAVEL BORROW
 - UNDISTURBED SUBGRADE
 - MORTAR PIPE JOINTS
- NOTES:
- PRECAST CONCRETE STRUCTURES AND CASTINGS SHALL BE SUITABLE FOR HS20 LOADINGS.
 - PRECAST CONCRETE STRUCTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM-C-478.
 - ALTERNATE SLAB TOP MAY BE USED AS DICTATED BY DESIGN AND/OR FIELD CONDITIONS.
 - UNLESS OTHERWISE NOTED, MANHOLES SHALL BE 48" I.D.
 - SPECIAL MANHOLES SHALL BE 72" I.D.

PRECAST CONCRETE DRAIN MANHOLE
NOT TO SCALE

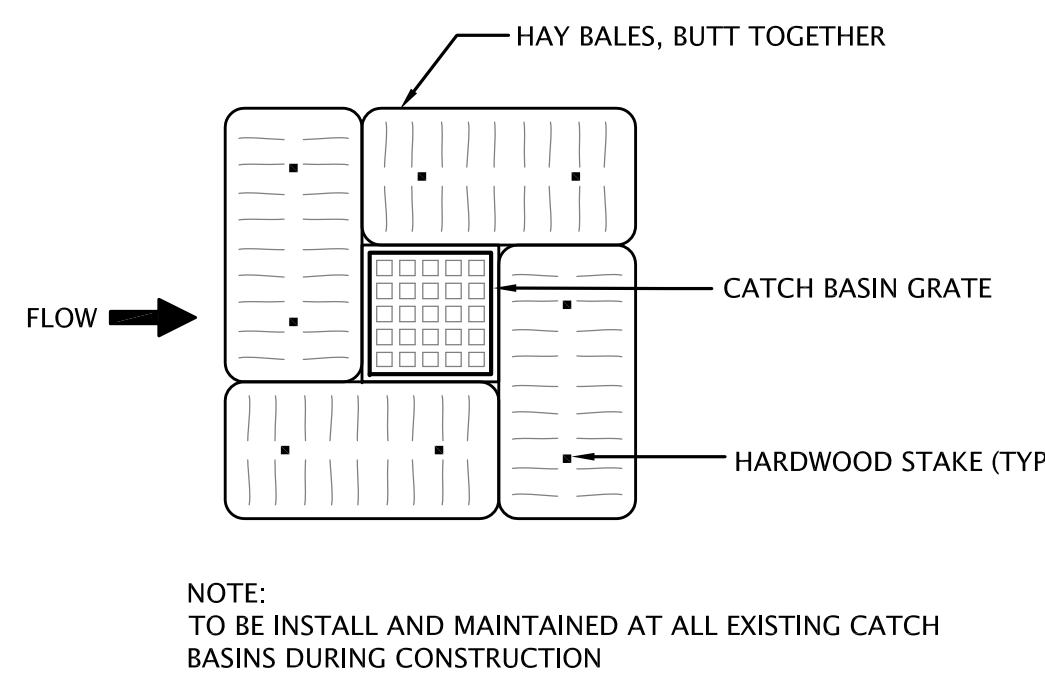


- FRAME AND GRATE
 - FRAME TO BE SET IN FULL BED OF MORTAR
 - PAVED SURFACE
 - STIFF MORTAR
 - ADJUST TO GRADE WITH BRICK OR PRECAST CONCRETE RINGS: MAX. 8" ADJUSTMENT
 - MORTAR PIPE JOINTS
 - MIN. 0.12 SQ. IN. STEEL PER VERTICAL FOOT, PLACED ACCORDING TO ASTM C-478
 - 12" COMPACTED GRAVEL BORROW
 - UNDISTURBED SUBGRADE OR SUITABLE COMPACTED BACKFILL IN ACCORDANCE WITH THE SPECIFICATIONS
 - FLAT TOP MAY BE REQUIRED WHERE SHALLOW PIPE COVER IS ENCOUNTERED.
- NOTES:
- PRECAST CONCRETE STRUCTURES AND CASTINGS SHALL BE SUITABLE FOR HS20 LOADINGS.
 - PRECAST CONCRETE STRUCTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM-C-478.
 - ALTERNATE SLAB TOP MAY BE USED AS DICTATED BY DESIGN AND/OR FIELD CONDITIONS.
 - UNLESS OTHERWISE NOTED, CATCH BASINS SHALL BE 48" I.D.
 - CATCH BASIN GRATES SHALL BE LEBARON LF248-2 OR EQUIVALENT CAST IRON, WITH A MAXIMUM OPENING SIZE OF 2-1/4".

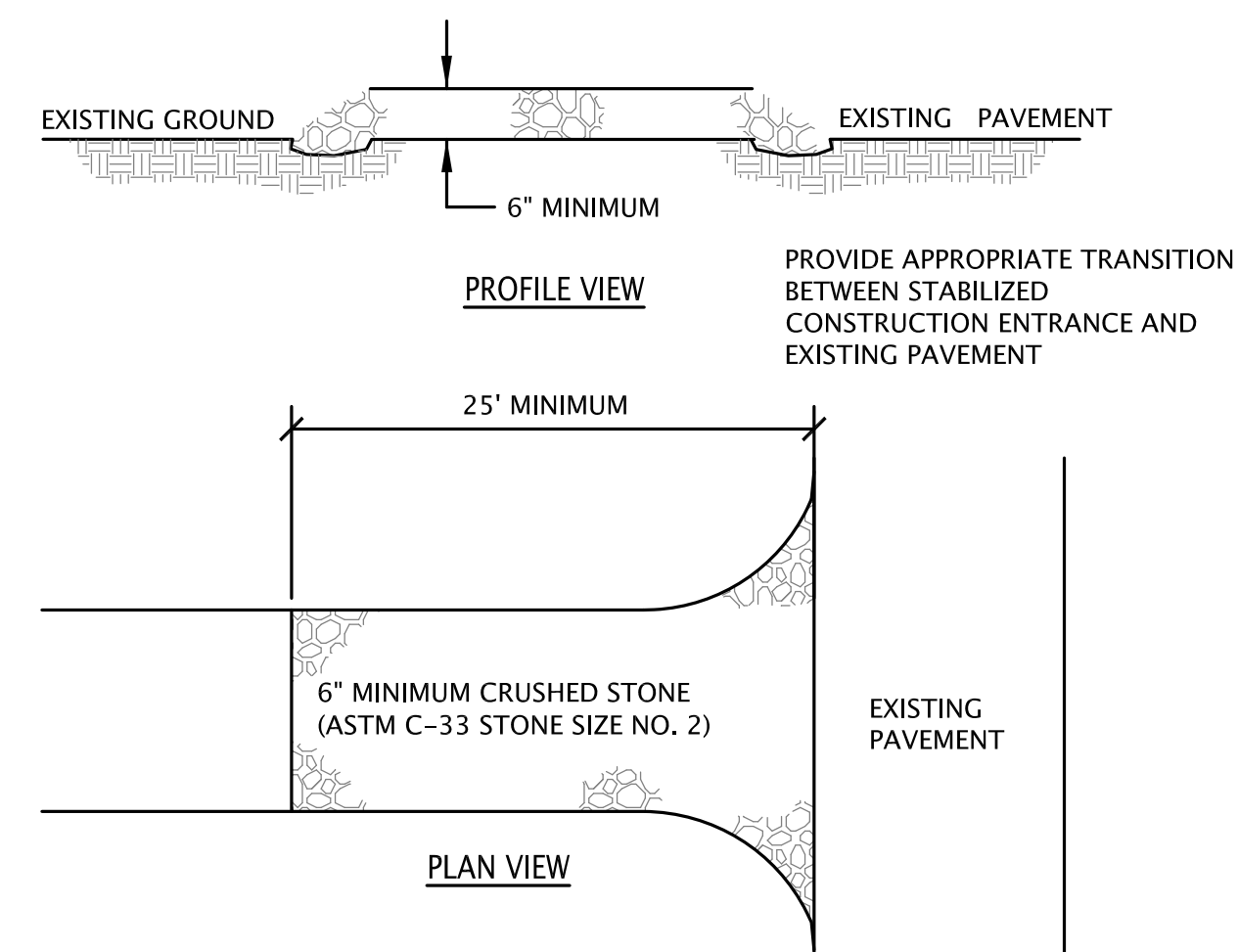
PRECAST CONCRETE CATCH BASIN WITH TRAP
NOT TO SCALE



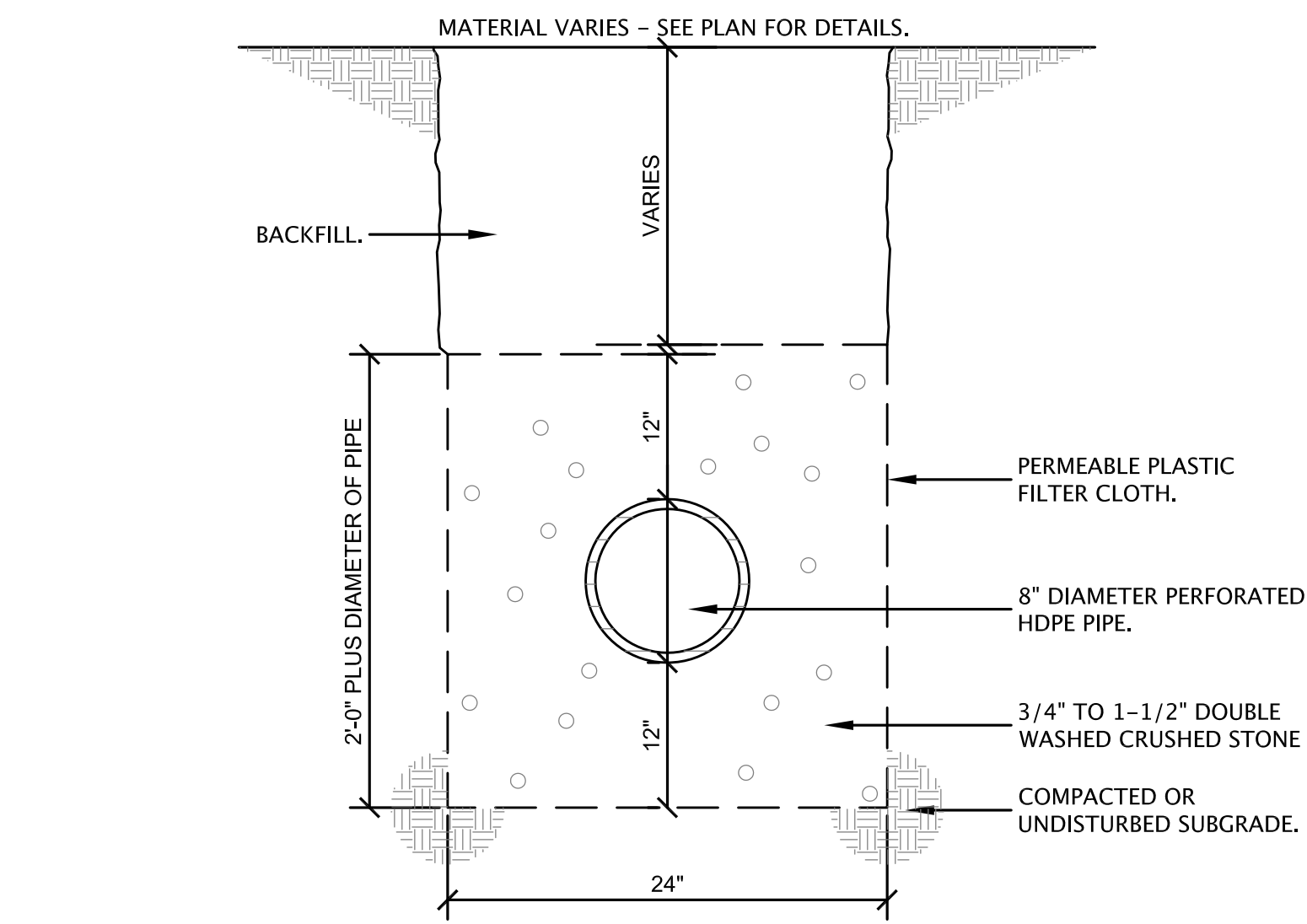
SILT FENCE / HAY BALE BARRIER
NOT TO SCALE



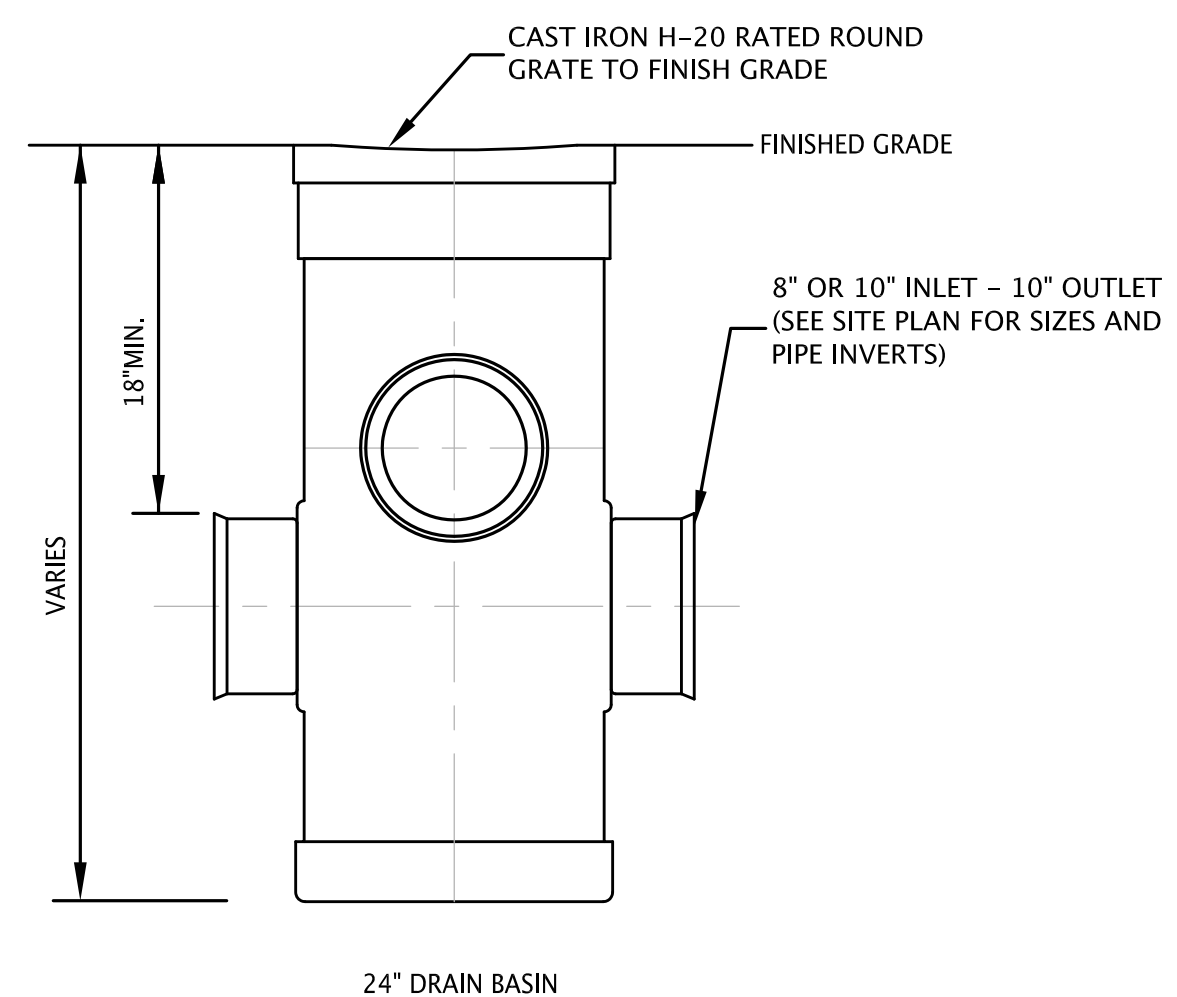
CATCH BASIN HAY BALE FILTER
NOT TO SCALE



ANTI-TRACKING PAD
NOT TO SCALE



INFILTRATION TRENCH DETAIL
NOT TO SCALE



AREA DRAIN
NOT TO SCALE - BY NDS - NYLOPLAST OR EQUAL

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DWG ISSUE & REVISION HISTORY

Stamp

ISSUED FOR BID

Project Title:
MAGNOLIA PARK
ARLINGTON, MA

Drawing Title:
SITE UTILITY DETAILS

Project No. 080215
Drawn By:
Checked By:
Scale: As Shown
Date: March 28, 2016

Drawing No. **L7-5**