

100% PERMITTING DOCUMENTS FOR:

Fuller Field - Track & Field Improvements

Phase Two

Newburyport, Massachusetts

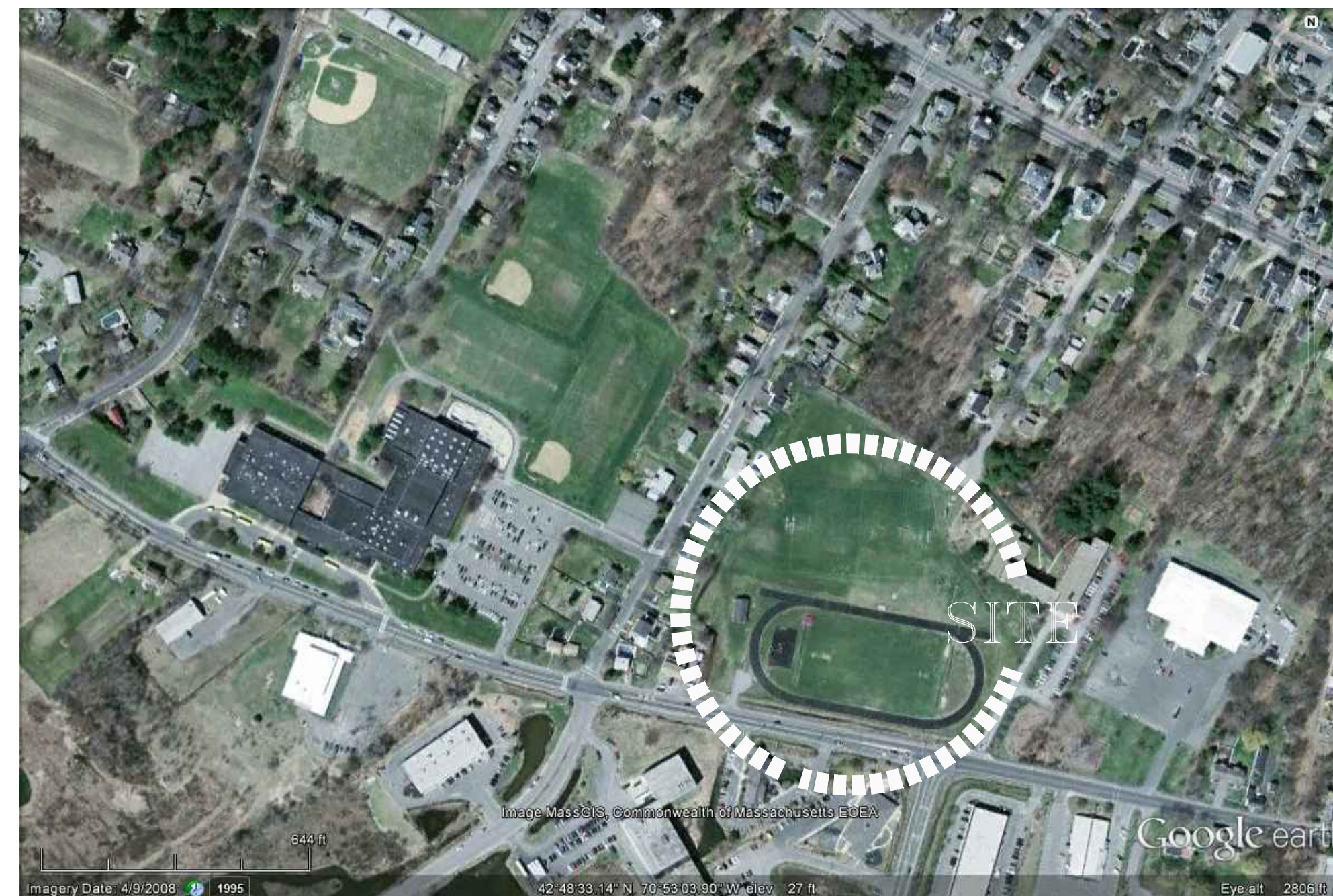
JANUARY 20, 2020

OWNER:
City of Newburyport
60 Pleasant Street
Newburyport, Massachusetts 01950

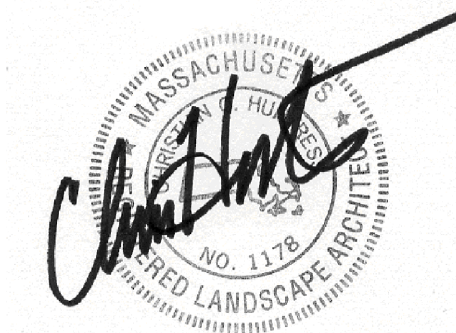
LIST OF DRAWINGS:

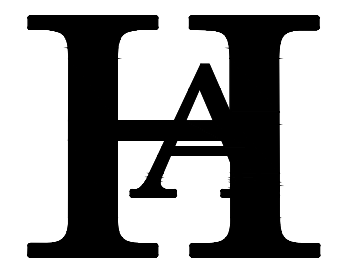
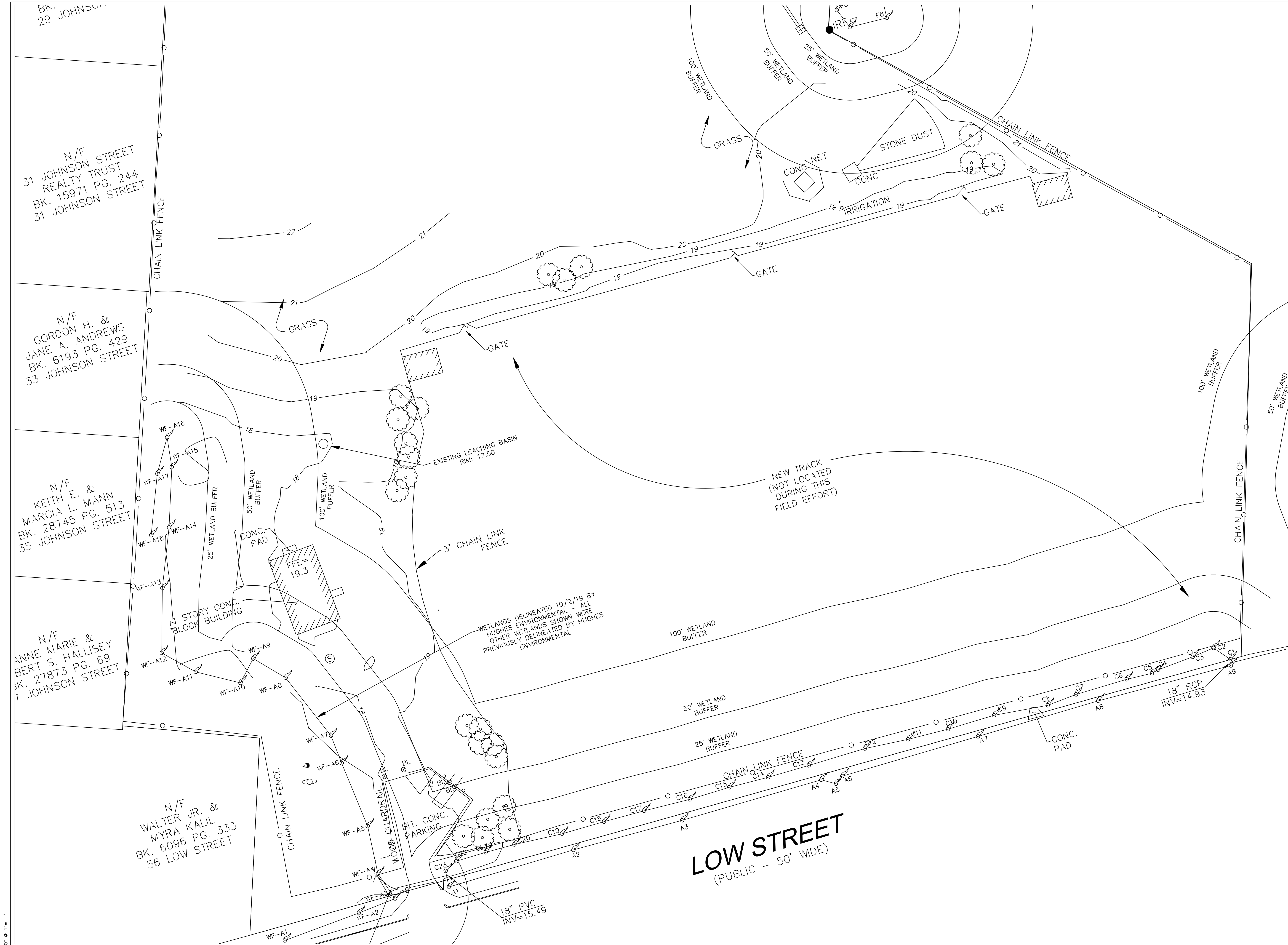
- EX-1 EXISTING CONDITIONS PLAN
- SP-1 SITE PREPARATION PLAN
- SP-2 SITE PREPARATION DETAILS
- L-1 LAYOUT & MATERIALS PLAN
- L-2 GRADING & DRAINAGE PLAN
- L-3 CONSTRUCTION DETAILS
- L-4 CONSTRUCTION DETAILS
- L-5 RAIN GARDEN & DRAINAGE DETAILS
- L-6 BLEACHER LAYOUT & CROSS-SECTION

LOCUS:



LANDSCAPE ARCHITECT:
Huntress Associates, Inc.
17 Tewksbury Street
Andover, Massachusetts 01810
978.470.8882

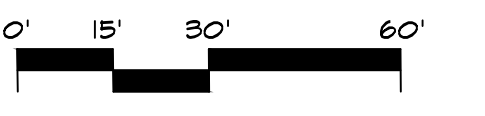
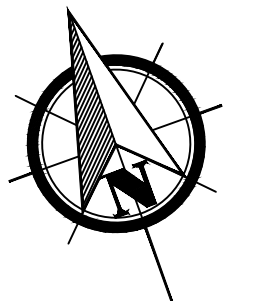




Huntress Associates, Inc.
 Landscape Architecture & Land Planning
 17 Tewksbury Street
 Andover, Massachusetts 01810
 978 470 8882 FAX 978 470 8890



Project:
**FULLER FIELD
 Track & Field**
 Newburyport, Massachusetts
 Drawing Title:
Existing Conditions



| Revision | Date |
|----------|------|
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Scale: 1" = 30'
 Date: 01.13.20
 Job: 99-107
 File: FR-MP
 Drawn: CGH
 Checked: --

Drawing No.
Ex-1
 of
1

PL07 11-11-11



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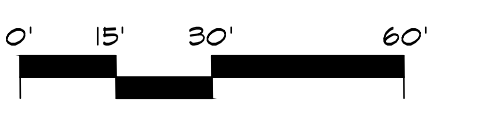
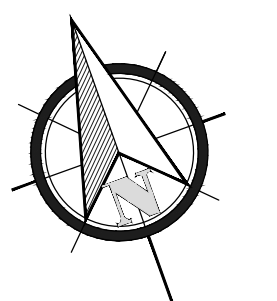
Project:

**FULLER FIELD
Track & Field**

Newburyport, Massachusetts

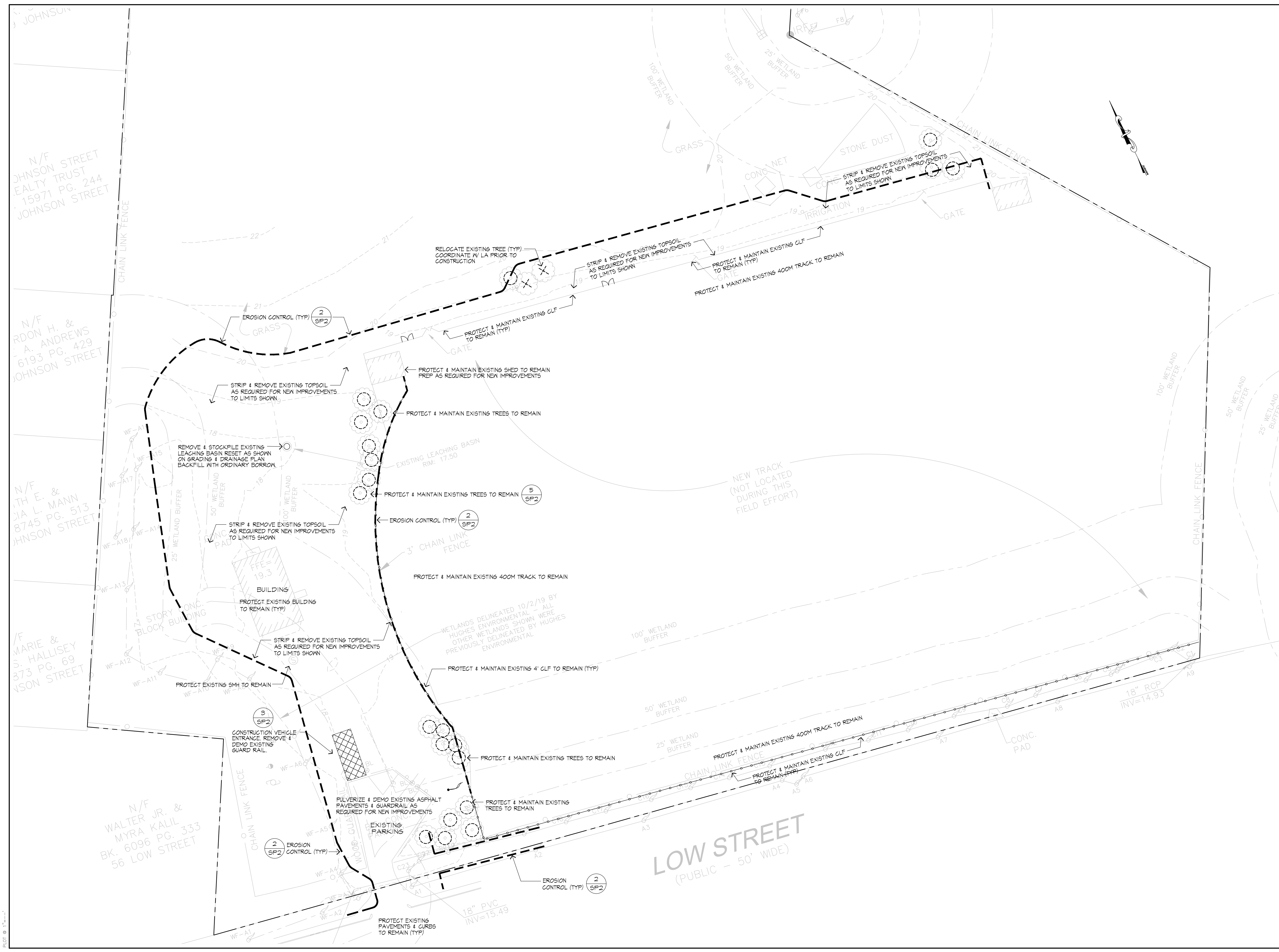
Drawing Title:

Site Preparation

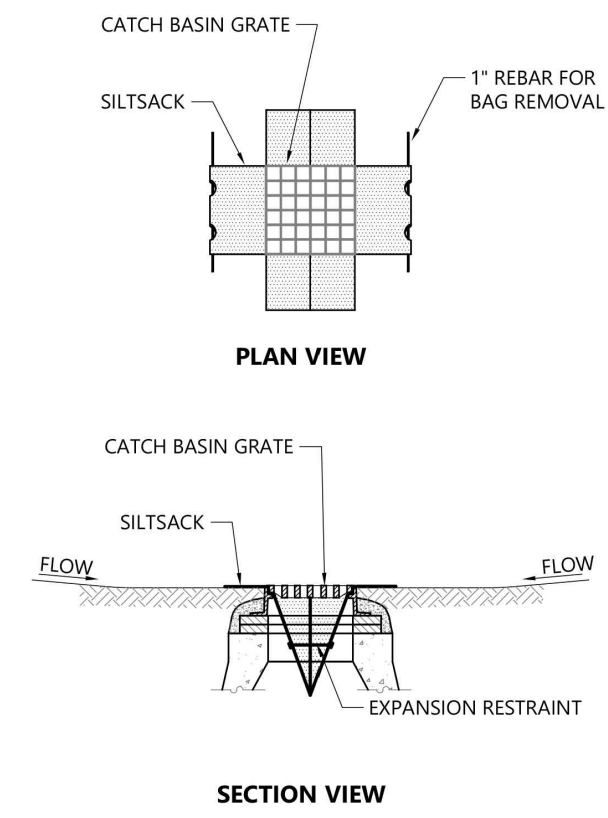


Revision _____ Date _____

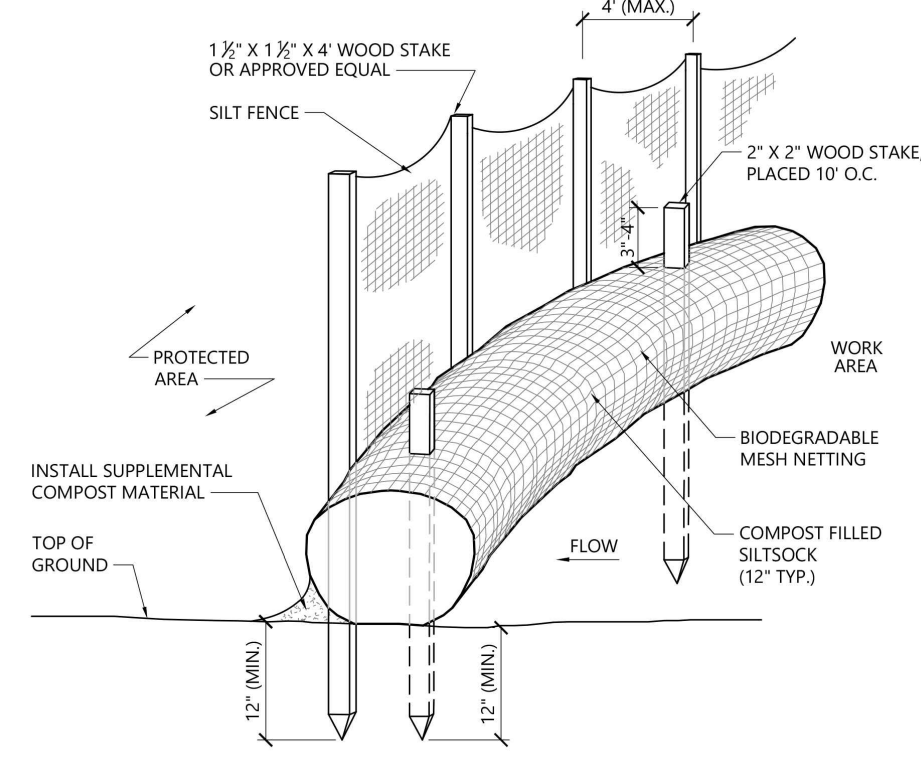
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| Date: | 4.13.16 | SP1 |
| Job: | 99-107 | of |
| File: | FR-MP | 1 |
| Drawn: | CCH | |
| Checked: | -- | |



PLOT @ 1/8\"/>

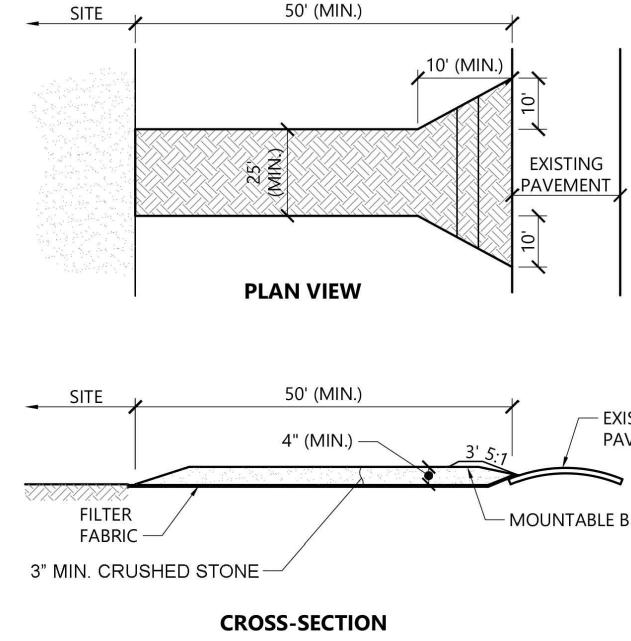


- NOTES**
- INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
 - GRATE TO BE PLACED OVER SILTSACK.
 - SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.



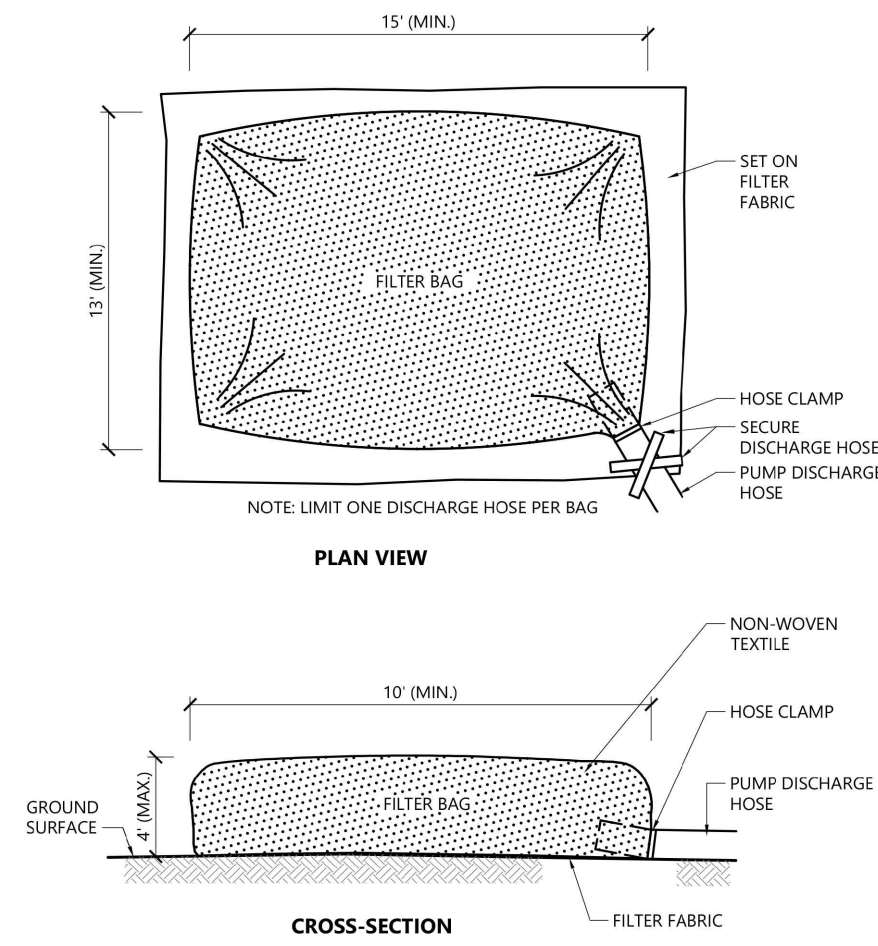
- NOTES**
- SILTSOCK SHALL BE FILTREXX SILTSOCK, OR APPROVED EQUAL.
 - SILTSOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
 - SILTSOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
 - COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
 - IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.

1 CATCH BASIN FILTER DETAIL
SCALE: 1/8"=1'-0"



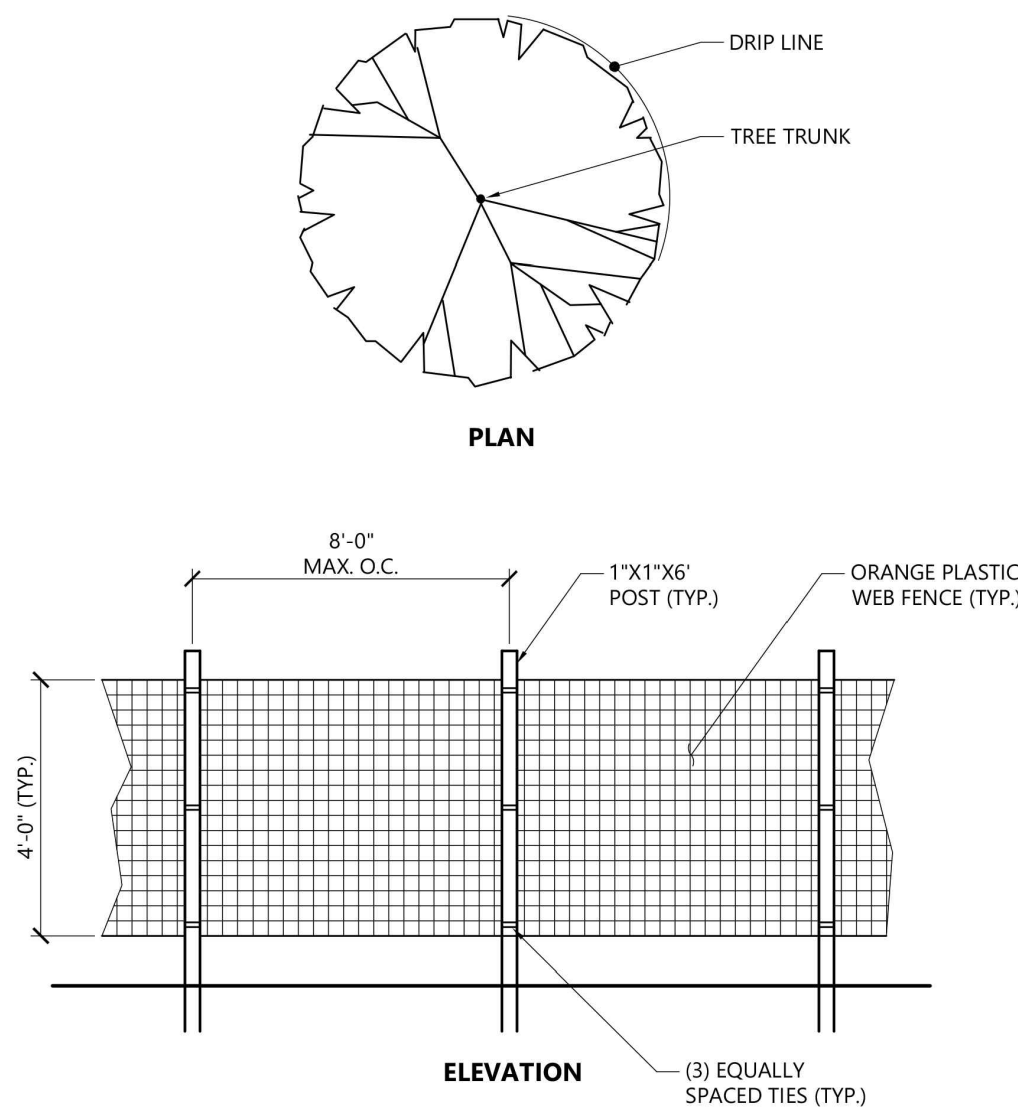
- NOTES**
- EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 - THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
 - STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.
 - CONTRACTOR TO LOCATE IN THE FIELD.

2 MULCH SOCK WITH SILTATION BARRIER
SCALE: N.T.S.



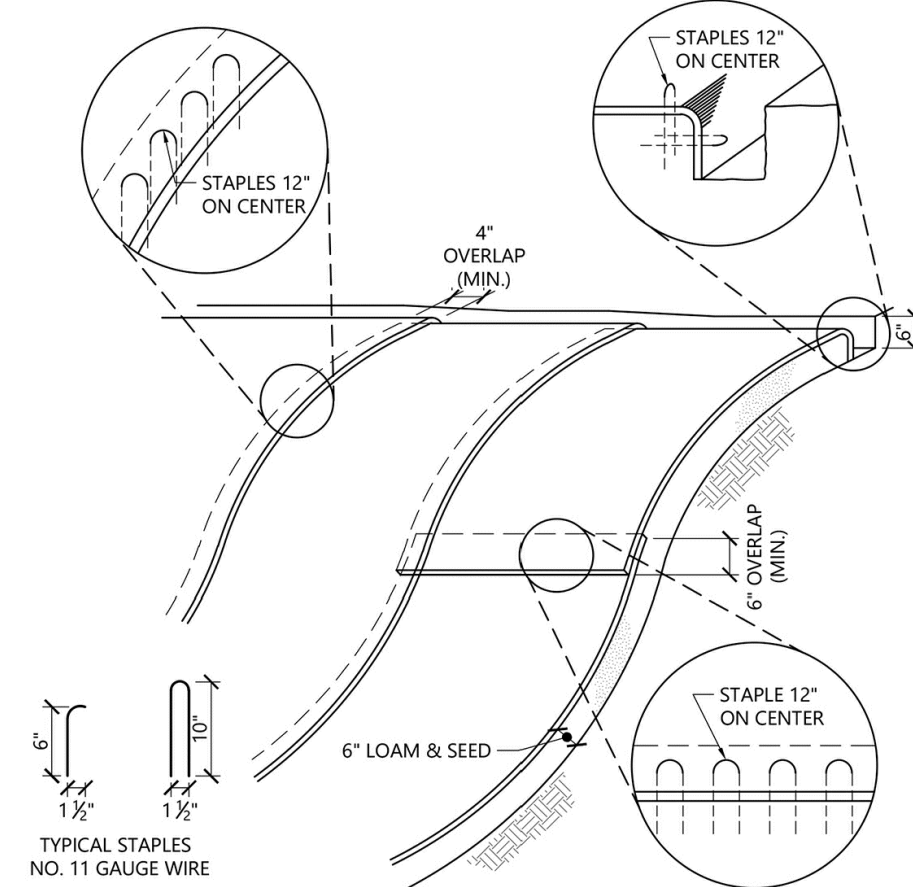
- NOTES**
- BAG TO BE USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

3 CONSTRUCTION VEHICLE ENTRANCE
SCALE: N.T.S.



- NOTES**
- INSTALL TREE PROTECTION FENCE AT THE DRIP LINE OF EXISTING TREES TO REMAIN.

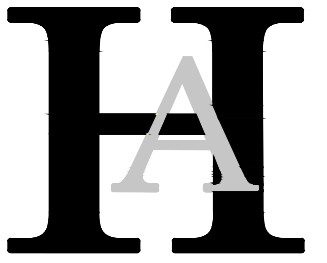
4 DEWATER - FILTER SACK
SCALE: N.T.S.



- NOTES**
- BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6\"/>
 - ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
 - THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
 - WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
 - METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
 - EROSION CONTROL BLANKETS SHALL BE USED IN ALL AREAS WHERE SLOPES EXCEED 3:1.

SITE PREPARATION NOTES

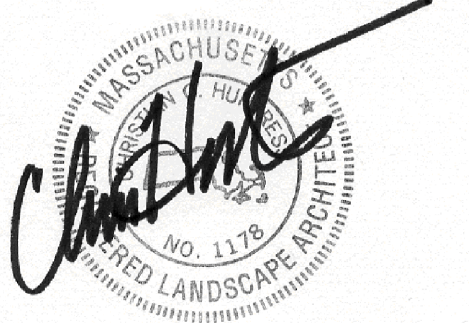
- EXISTING CONDITIONS INFORMATION IS REPRODUCED FROM THE SURVEY PREPARED BY DESIGN CONSULTANTS, INC OF STONEHAM, MASSACHUSETTS - DATED DECEMBER 1, 2015.
- WITHIN THE LIMIT OF THE WORK LINE AS NOTED ON THE SITE PREPARATION PLANS, REMOVE AND DISCARD ALL CONCRETE PAVEMENT, BITUMINOUS CONCRETE PAVEMENT, BRICK PAVEMENT, TOP SOIL, MULCH, TRASH, DEAD TREES AND STUMPS, SHRUBBERY, CHAIN LINK FENCE POSTS, RAILS, FABRIC, GATES, FOOTINGS AND ALL APPURTENANCES, BOLLARDS, POSTS, CONCRETE FOOTINGS AND FOUNDATIONS, WALLS AND CURBS UNLESS OTHERWISE NOTED.
- THE ARCHITECT SHALL BE CONSULTED AND WILL REVIEW THE WORK ON SITE WITH THE CONTRACTOR BEFORE ANY WORK SHALL COMMENCE.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE ARCHITECT PRIOR TO STARTING WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONDITIONS TO REMAIN THAT ARE DUE TO CONTRACTOR OPERATIONS AND WHICH ARE INSIDE OR OUTSIDE THE LIMIT OF DEMOLITION.
- ALL ITEMS TO BE REMOVED THAT ARE NOT STOCKPILED FOR LATER REUSE ON THE PROJECT OR DELIVERED TO THE OWNER SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE CONTRACTOR.
- THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE DIAGRAMMATIC ONLY. THE CONTRACTOR SHALL CONTACT DIGSAFE AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANIES 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS EFFORTS OF THE DEMOLITION WITH ALL TRADES.
- THE CONTRACTOR SHALL MAINTAIN OR ADJUST TO NEW FINISH GRADE AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MAN HOLES, CATCH BASINS, HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED OR DIRECTED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
- NO STOCKPIILING OF MATERIALS OR CONSTRUCTION EQUIPMENT ALLOWED WITH THE 50' WETLAND BUFFER LIMITS.
- THE CONTRACTOR SHALL DEMO AND CAP EXISTING IRRIGATION SYSTEM.
- THE CONTRACTOR SHALL HYDRO-JET & CLEAN ALL DRAINAGE LINES TO REMAIN WITHIN LIMIT OF WORK.
- PROVIDE, INSTALL & MAINTAIN SILT SACKS IN ALL CATCH BASINS TO REMAIN WITHIN LIMIT OF WORK.



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Landscape Architecture & Land Planning

17 Tewksbury Street
Andover, Massachusetts 01810
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Project:

**FULLER FIELD
Track & Field**

Newburyport, Massachusetts

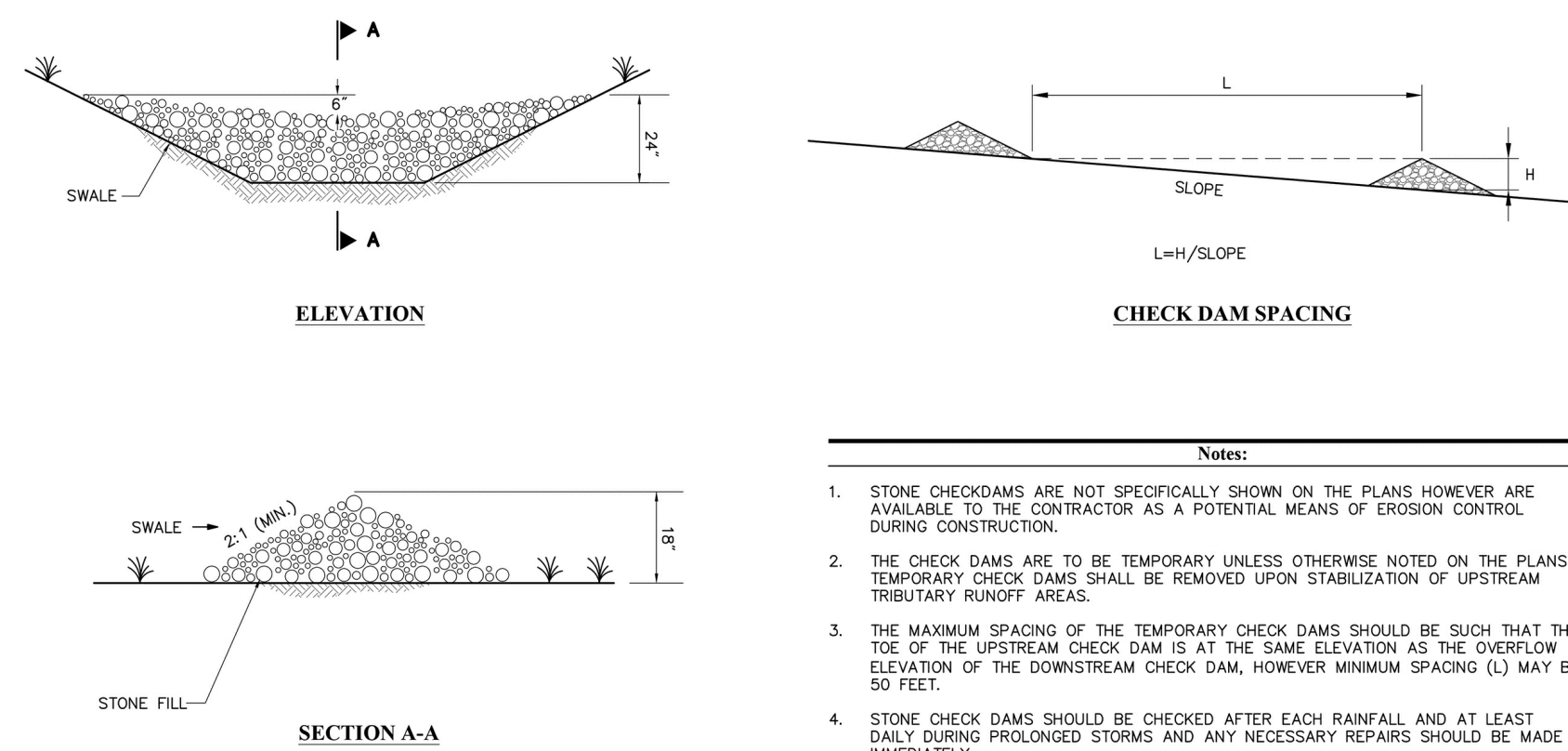
Drawing Title:

Site Preparation

Revision _____ Date _____

Scale: AS NOTED Drawing No. SP2
Date: 01.13.20
Job: 99-107
File: PR-MP
Drawn: CCH of
Checked: -- 2

7 EROSION CONTROL - CHECK DAMS
SCALE: N.T.S.



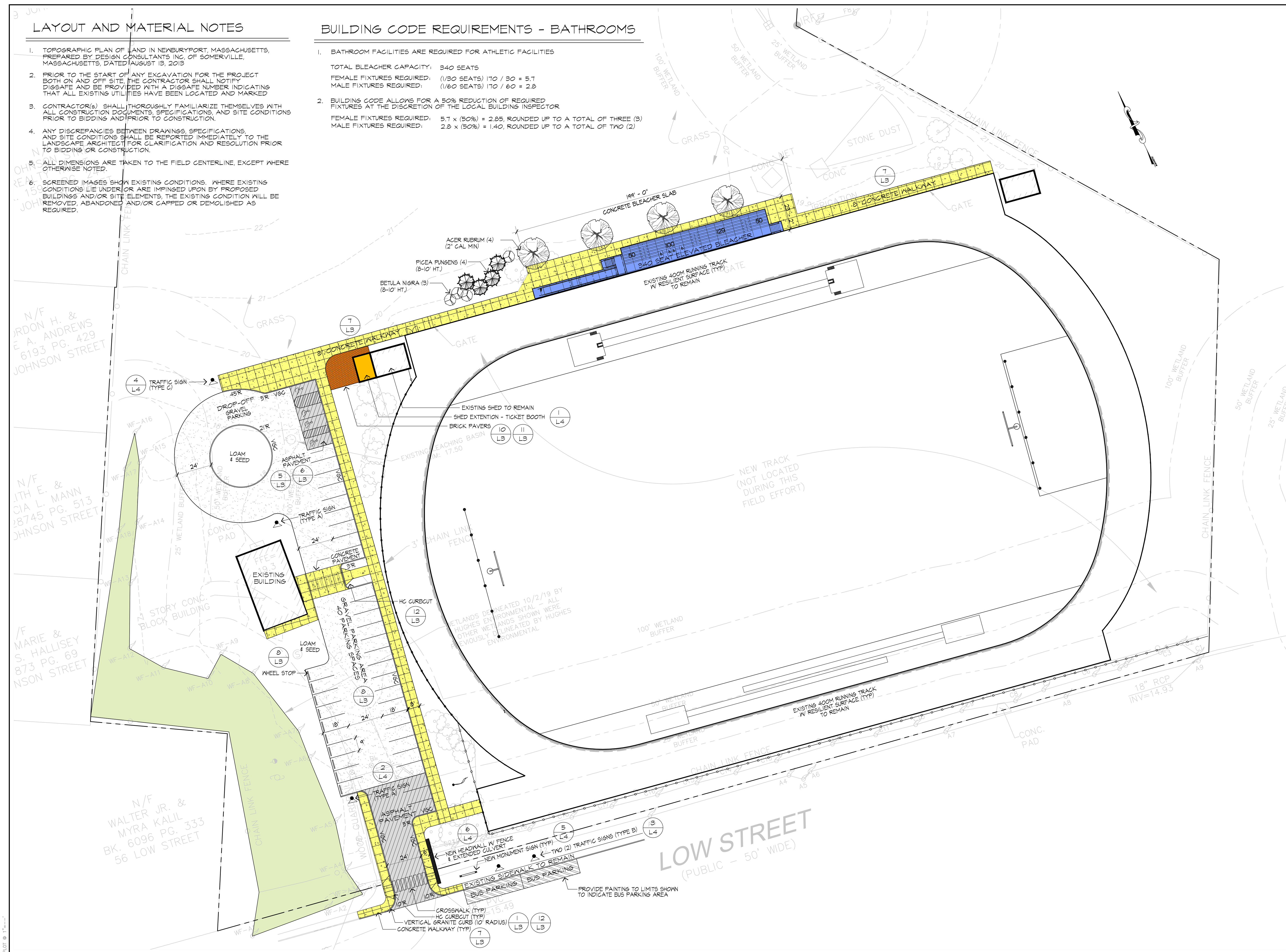
- Notes:**
- STONE CHECKDAMS ARE NOT SPECIFICALLY SHOWN ON THE PLANS HOWEVER ARE AVAILABLE TO THE CONTRACTOR AS A POTENTIAL MEANS OF EROSION CONTROL DURING CONSTRUCTION.
 - THE CHECK DAMS ARE TO BE TEMPORARY UNLESS OTHERWISE NOTED ON THE PLANS. TEMPORARY CHECK DAMS SHALL BE REMOVED UPON STABILIZATION OF UPSTREAM TRIBUTARY RUNOFF AREAS.
 - THE MAXIMUM SPACING OF THE TEMPORARY CHECK DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM CHECK DAM IS AT THE SAME ELEVATION AS THE OVERFLOW ELEVATION OF THE DOWNSTREAM CHECK DAM. HOWEVER MINIMUM SPACING (L) MAY BE 50 FEET.
 - STONE CHECK DAMS SHOULD BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED STORMS AND ANY NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY.
 - SEDIMENT SHOULD BE REMOVED FROM BEHIND THE CHECK DAMS WHEN IT HAS ACCUMULATED TO ONE HALF OF THE ORIGINAL HEIGHT OF THE CHECK DAM.
 - WHEN CHECK DAMS ARE REMOVED, THE DISTURBED AREA SHOULD BE BROUGHT TO THE EXISTING CHANNEL GRADE, SEEDED AND MULCHED WITH STRAW.

LAYOUT AND MATERIAL NOTES

1. TOPOGRAPHIC PLAN OF LAND IN NEWBURYPORT, MASSACHUSETTS, PREPARED BY DESIGN CONSULTANTS INC. OF SOMERVILLE, MASSACHUSETTS, DATED AUGUST 13, 2013
2. PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT BOTH ON AND OFF SITE, THE CONTRACTOR SHALL NOTIFY DIGSAFE AND BE PROVIDED WITH A DIGSAFE NUMBER INDICATING THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED
3. CONTRACTOR(S) SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
4. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION.
5. ALL DIMENSIONS ARE TAKEN TO THE FIELD CENTERLINE, EXCEPT WHERE OTHERWISE NOTED.
6. SCREENED IMAGES SHOW EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPINGED UPON BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED, ABANDONED AND/OR CAPPED OR DEMOLISHED AS REQUIRED.

BUILDING CODE REQUIREMENTS - BATHROOMS

1. BATHROOM FACILITIES ARE REQUIRED FOR ATHLETIC FACILITIES
 TOTAL BLEACHER CAPACITY: 340 SEATS
 FEMALE FIXTURES REQUIRED: (1/30 SEATS) 110 / 30 = 3.7
 MALE FIXTURES REQUIRED: (1/60 SEATS) 170 / 60 = 2.8
2. BUILDING CODE ALLOWS FOR A 50% REDUCTION OF REQUIRED FIXTURES AT THE DISCRETION OF THE LOCAL BUILDING INSPECTOR
 FEMALE FIXTURES REQUIRED: 3.7 x (50%) = 1.85, ROUNDED UP TO A TOTAL OF THREE (3)
 MALE FIXTURES REQUIRED: 2.8 x (50%) = 1.40, ROUNDED UP TO A TOTAL OF TWO (2)



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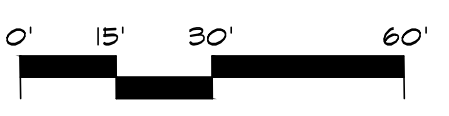
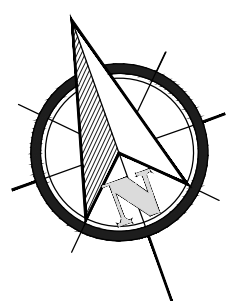
Project:

**FULLER FIELD
 Track & Field
 Phase Two**

Newburyport, Massachusetts

Drawing Title:

Layout & Materials



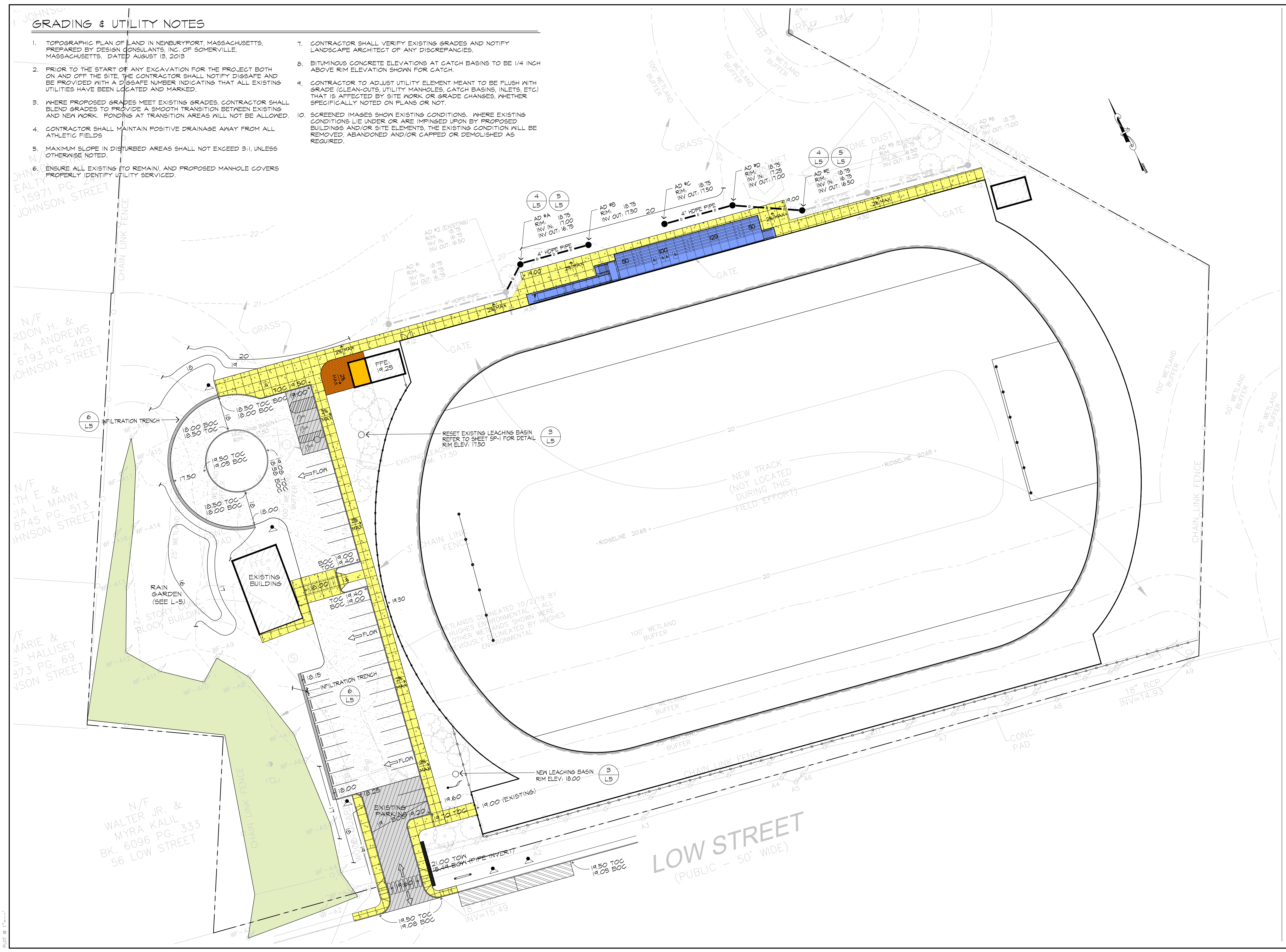
Revision _____ Date _____

Scale: 1" = 30'
 Date: 01.20.20
 Job: 99-107
 File: FR-MP
 Drawn: CCH
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Drawing No.
L-1
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6

GRADING & UTILITY NOTES

1. TOPOGRAPHIC PLAN OF LAND IN NEWBURYPORT, MASSACHUSETTS, PREPARED BY DESIGN CONSULTANTS, INC. OF SOMERVILLE, MASSACHUSETTS, DATED AUGUST 19, 2019.
2. PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT BOTH ON AND OFF THE SITE, THE CONTRACTOR SHALL NOTIFY DESIGN AND BE PROVIDED WITH A DIGSAFE NUMBER INDICATING THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED.
3. WHERE PROPOSED GRADES MEET EXISTING GRADES, CONTRACTOR SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
4. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL ATHLETIC FIELDS.
5. MAXIMUM SLOPE IN DISTURBED AREAS SHALL NOT EXCEED 3:1, UNLESS OTHERWISE NOTED.
6. ENSURE ALL EXISTING (TO REMAIN), AND PROPOSED MANHOLE COVERS PROPERLY IDENTIFY UTILITY SERVICED.
7. CONTRACTOR SHALL VERIFY EXISTING GRADES AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
8. BITUMINOUS CONCRETE ELEVATIONS AT CATCH BASINS TO BE 1/4 INCH ABOVE RIM ELEVATION SHOWN FOR CATCH.
9. CONTRACTOR TO ADJUST UTILITY ELEMENT MEANT TO BE FLUSH WITH GRADE (CLEAN-OUTS, UTILITY MANHOLES, CATCH BASINS, INLETS, ETC.) THAT IS AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT.
10. SCREENED IMAGES SHOW EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPINGED UPON BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED, ABANDONED AND/OR CAPPED OR DEMOLISHED AS REQUIRED.



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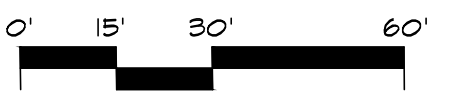
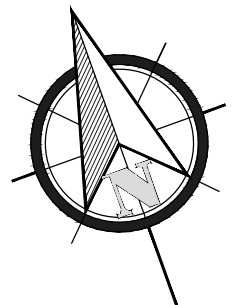


Project:

**FULLER FIELD
 Track & Field
 Phase Two**
 Newburyport, Massachusetts

Drawing Title:

Grading & Drainage



| Revision | Date |
|----------|------|
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| Scale: | 1" = 30' | Drawing No. | L-2 |
| Date: | 01.13.20 | | |
| Job: | 99-107 | | |
| File: | FR-MP | | |
| Drawn: | CCH | of | |
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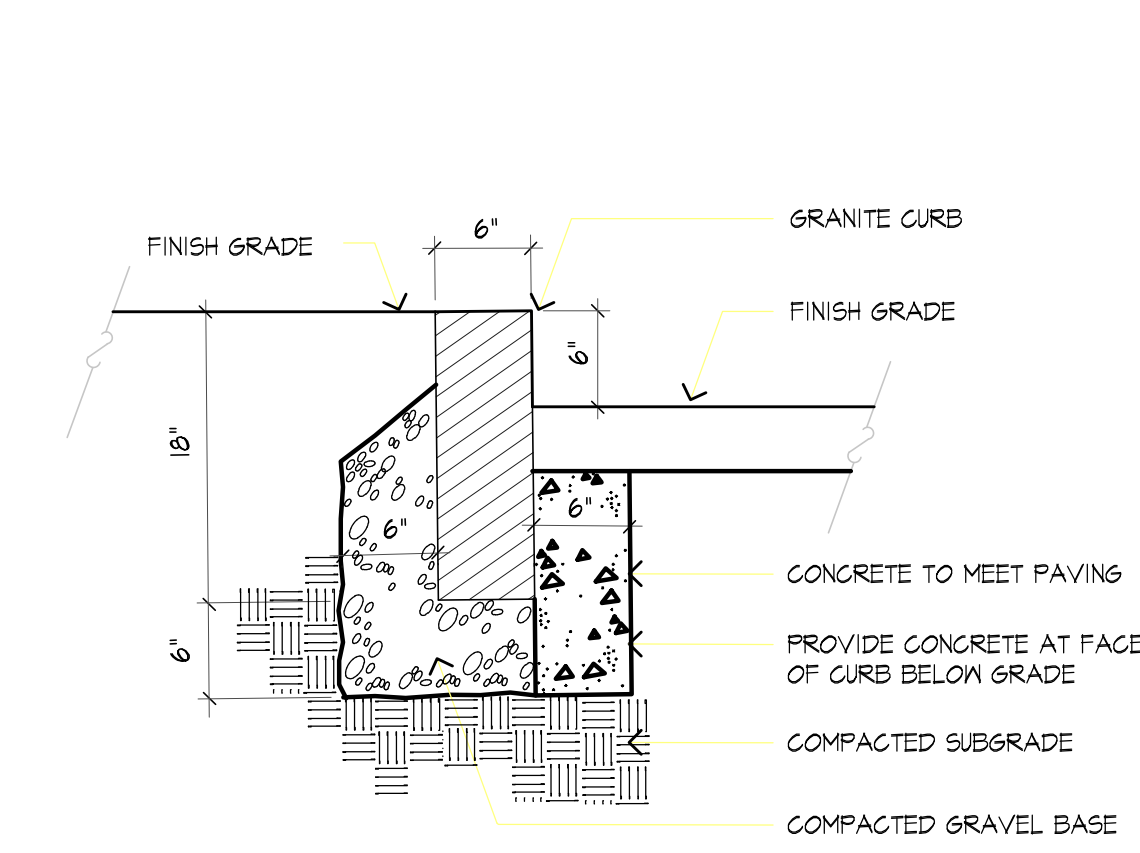


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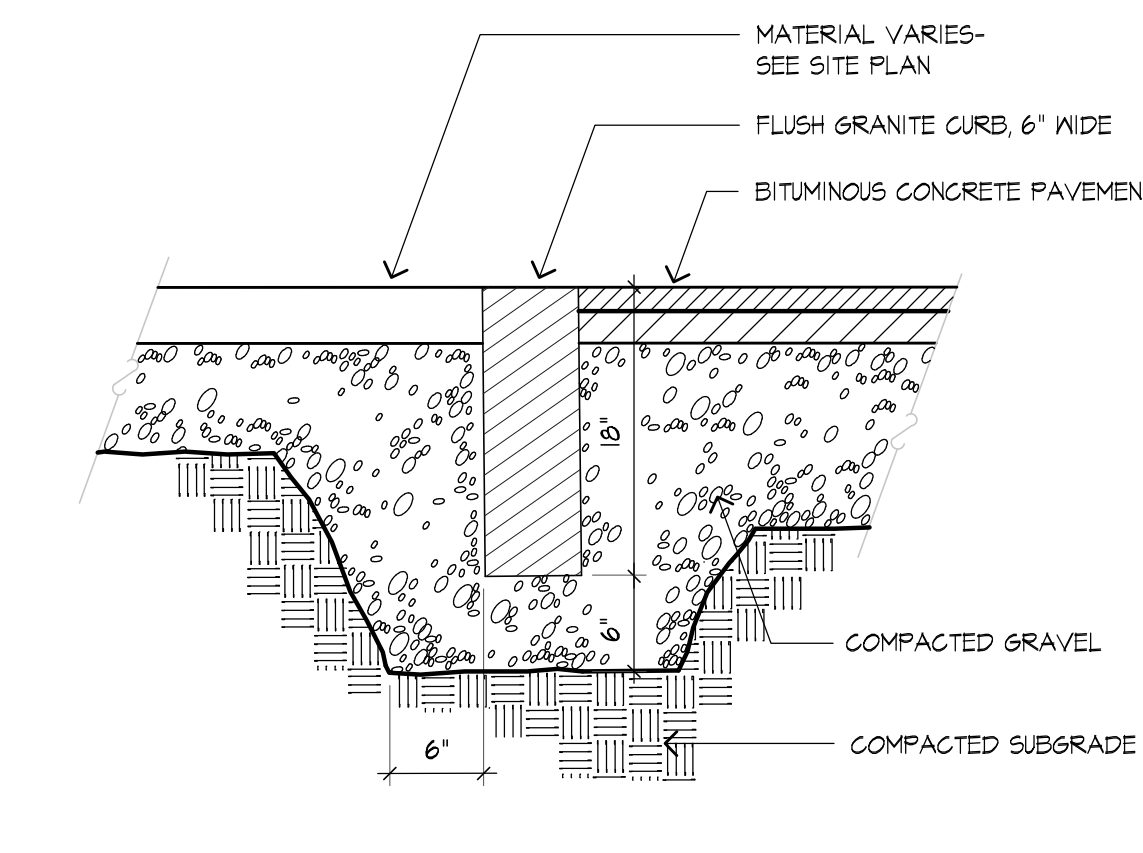
**FULLER FIELD
Track & Field
Phase Two**
Newburyport, Massachusetts

Drawing Title:

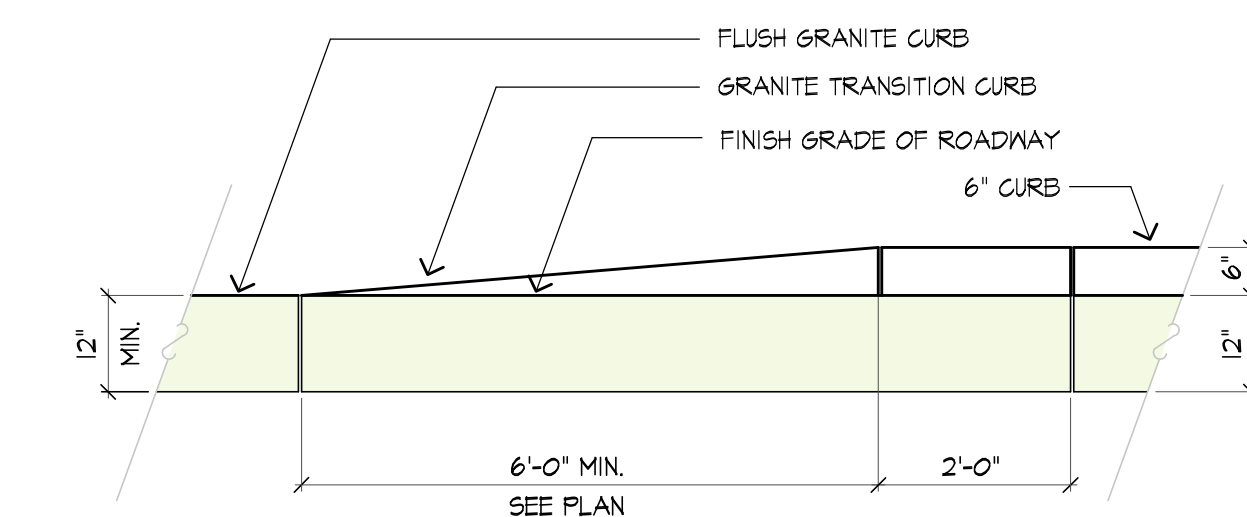
**Track & Field
Construction Details**



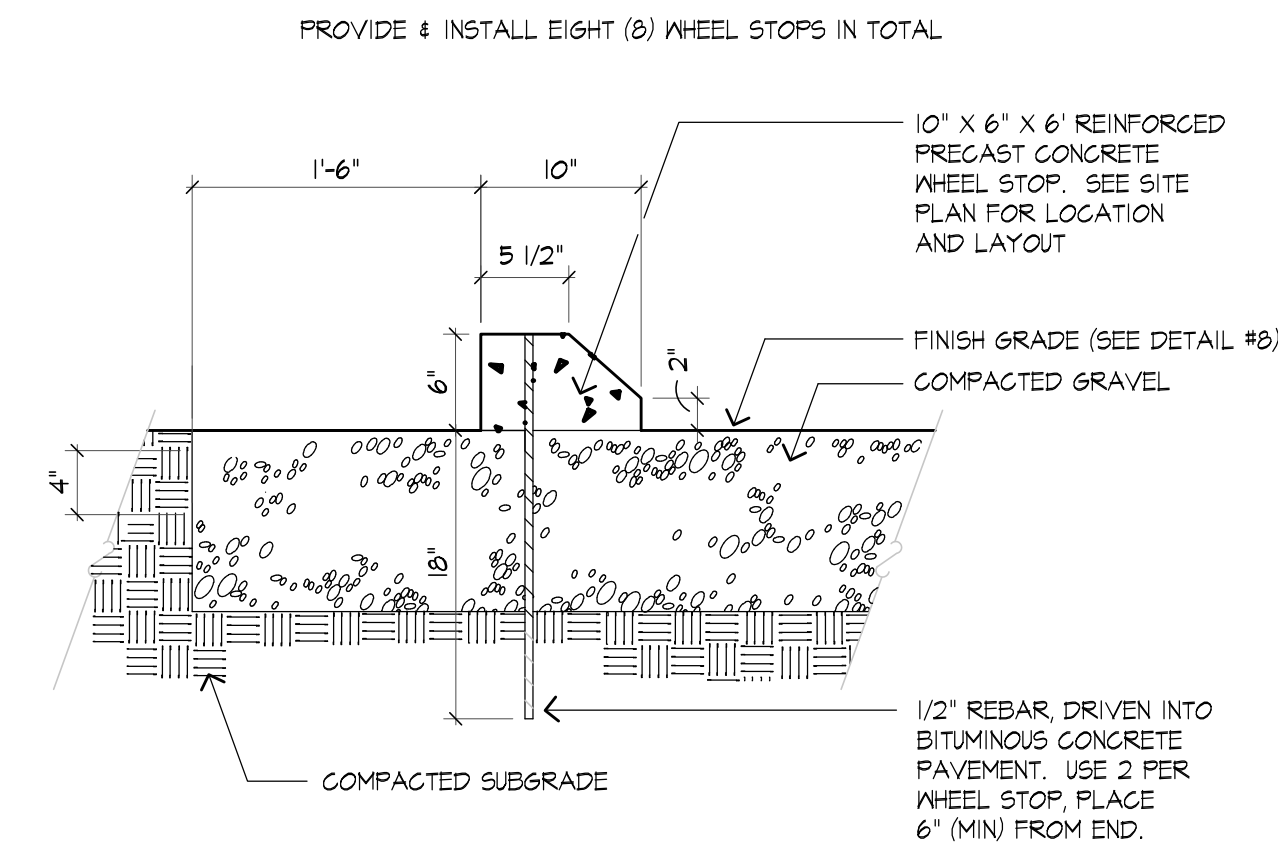
1 VERTICAL GRANITE CURB
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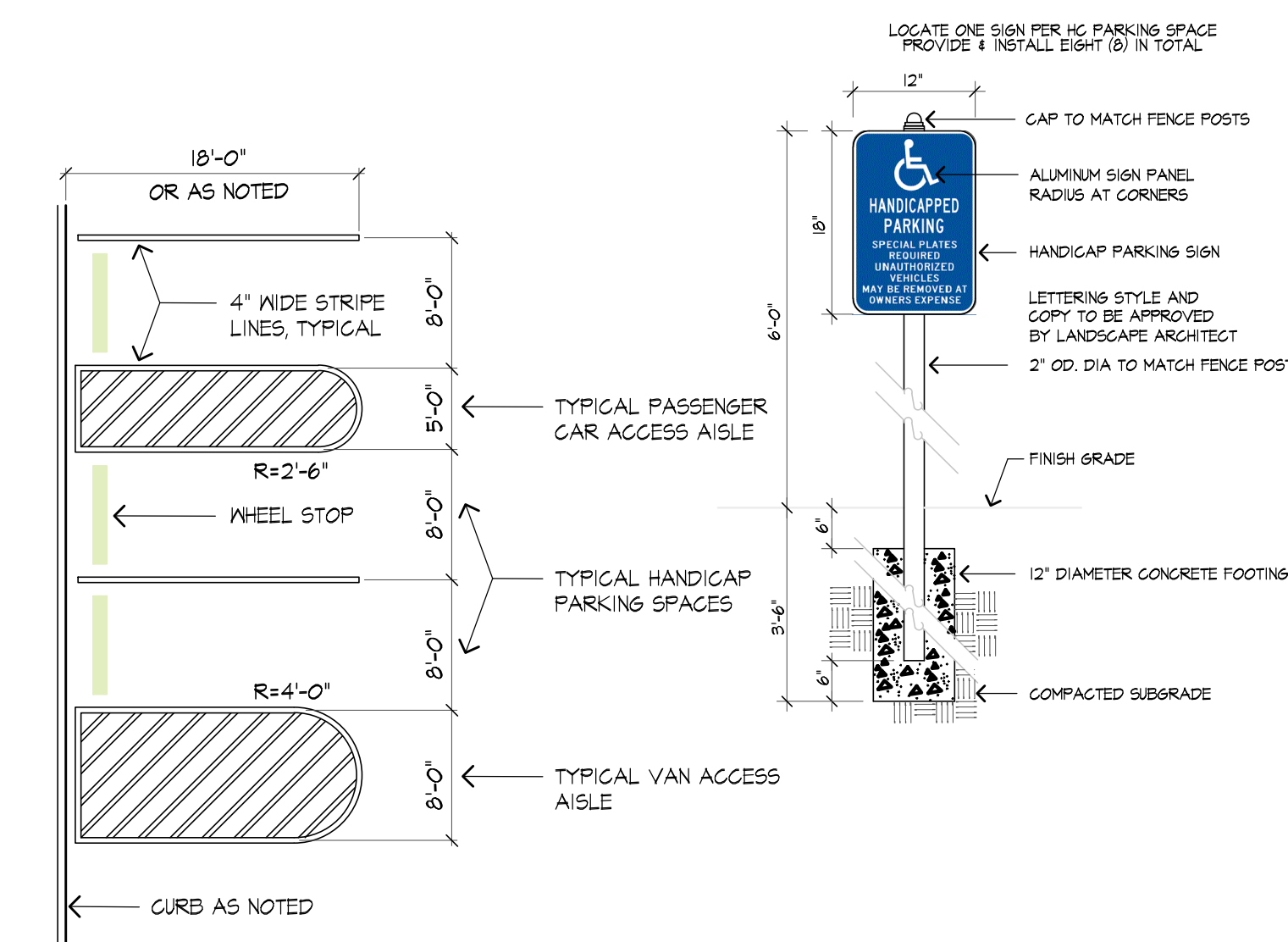
2 FLUSH GRANITE CURB
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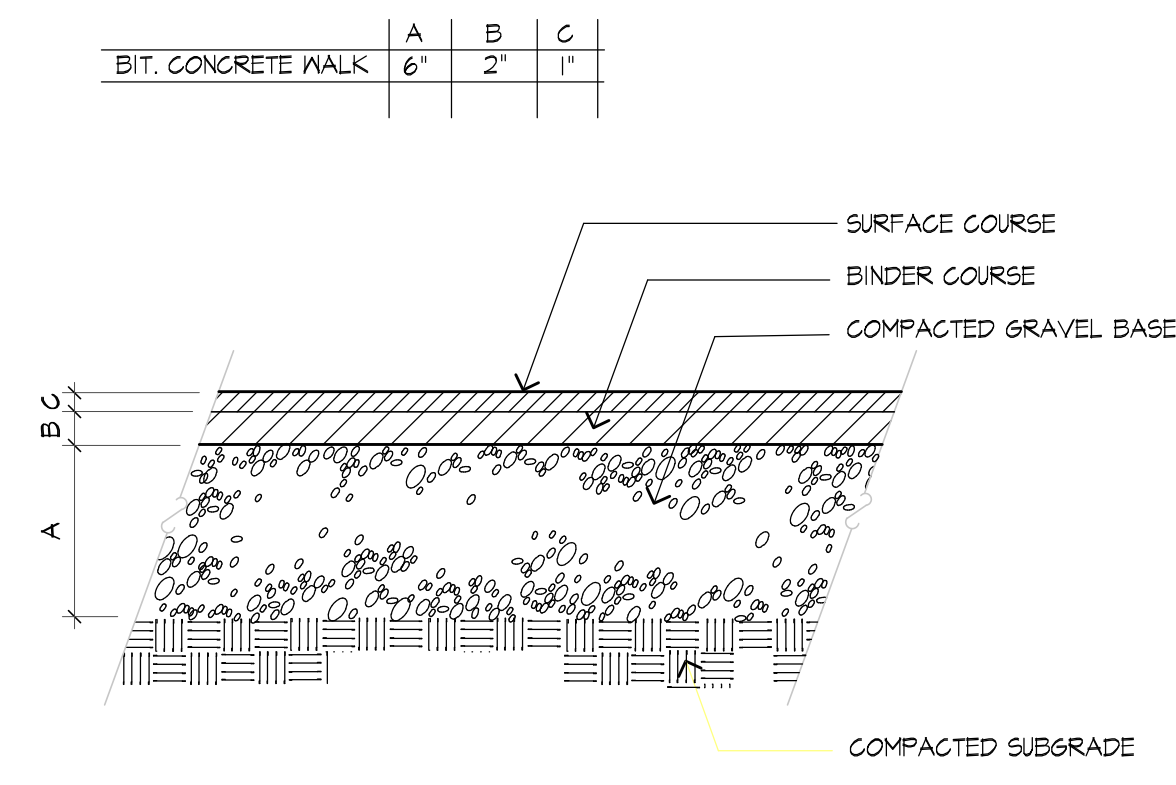
3 TRANSITION CURB
SCALE: 1/2" = 1'-0"



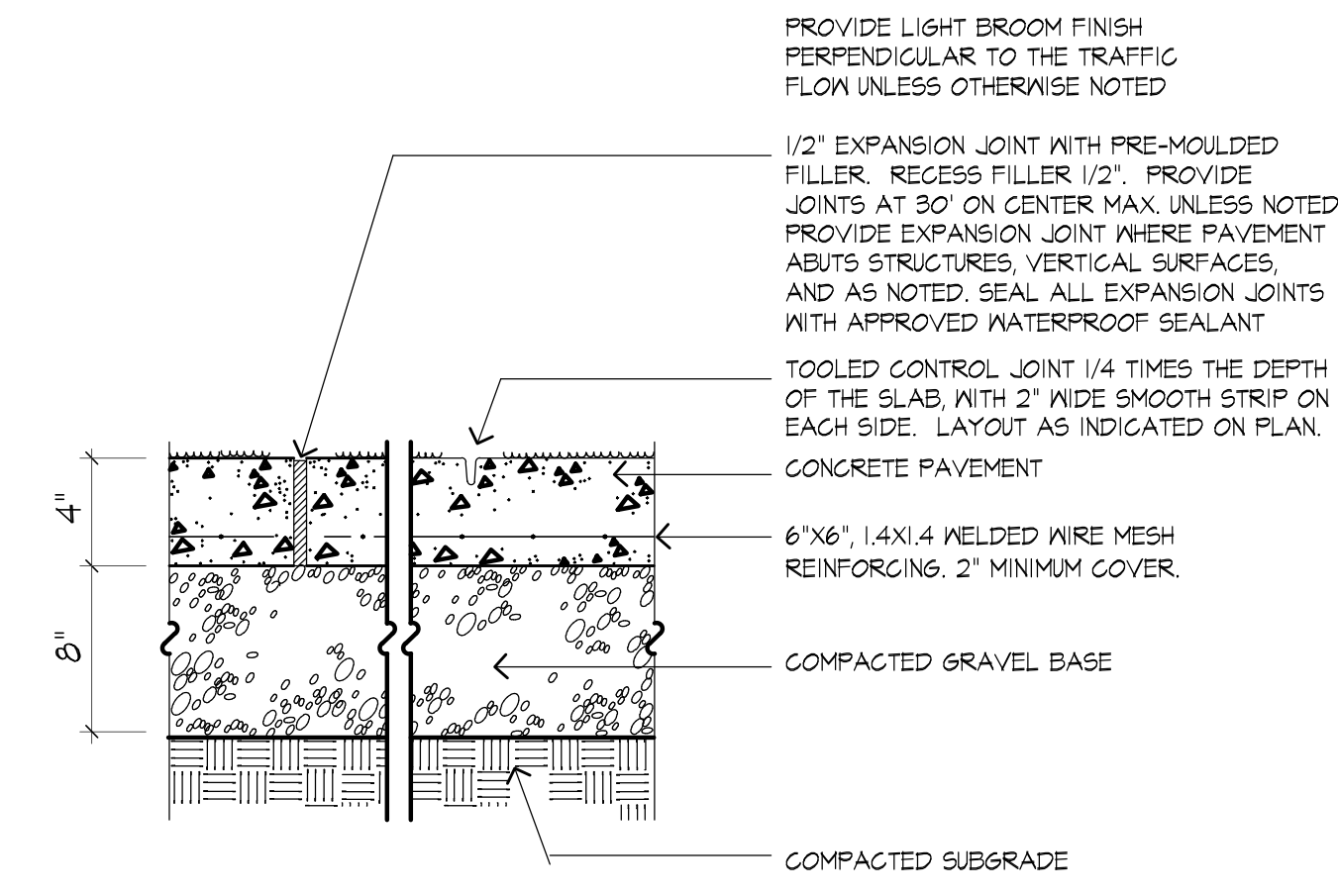
4 PRECAST CONCRETE WHEEL STOP
SCALE: N.T.S.



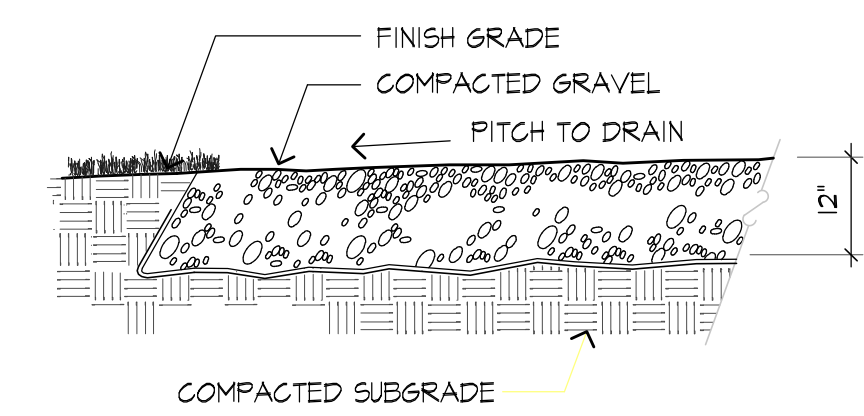
5 HANDICAP PARKING SPACE AND SIGN DETAIL
SCALE: 1" = 10'-0"



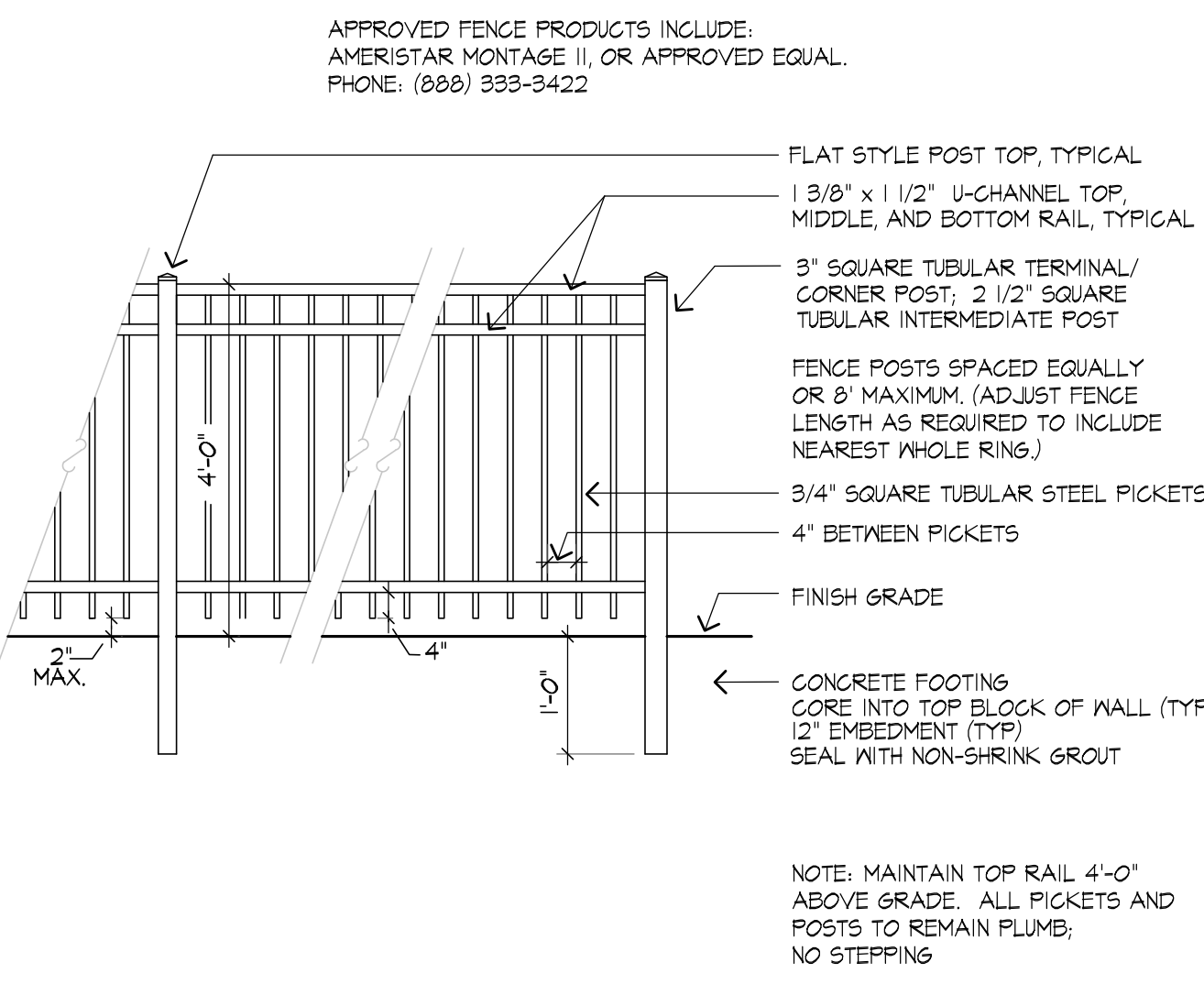
6 BITUMINOUS CONCRETE PAVEMENT
SCALE: N.T.S.



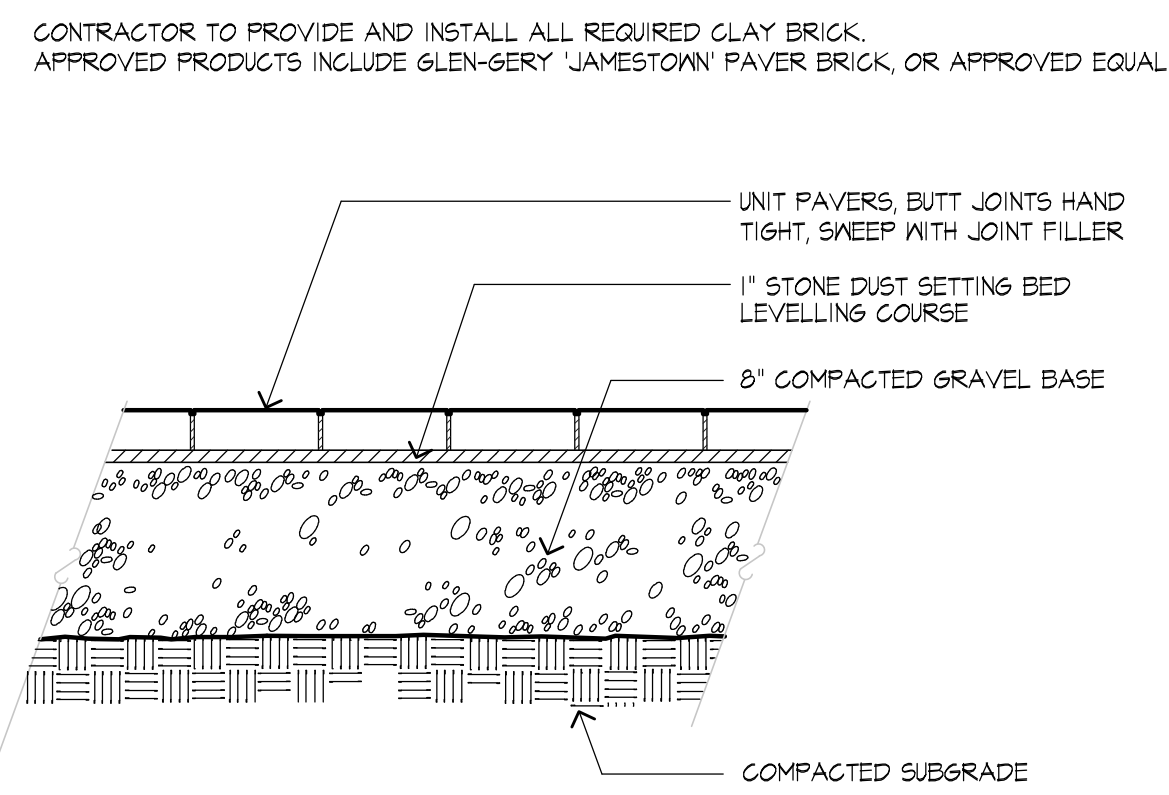
7 CONCRETE PAVEMENT
SCALE: N.T.S.



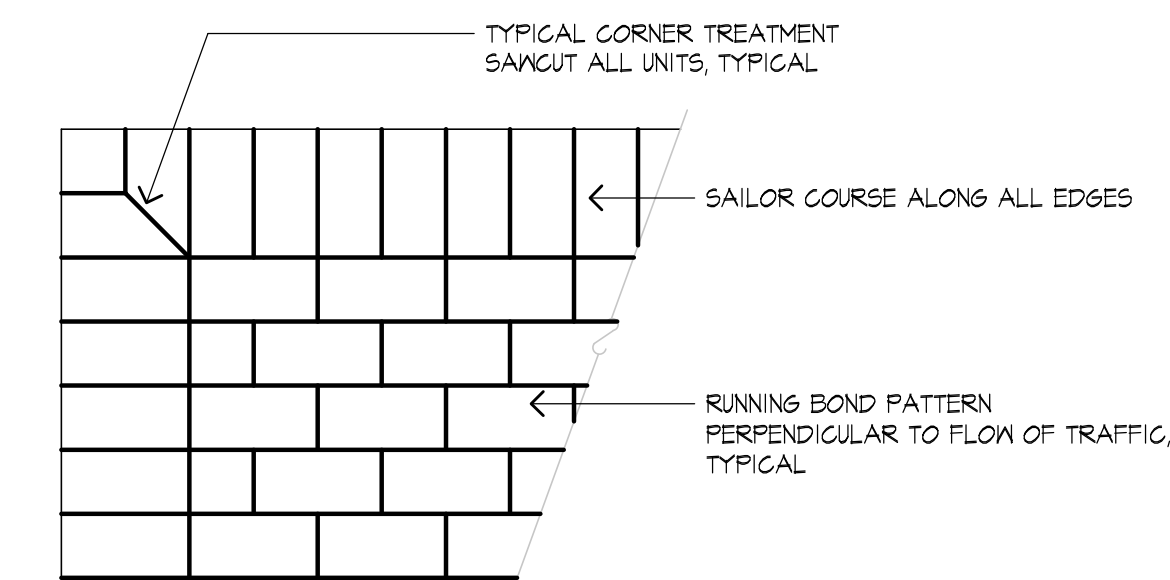
8 GRAVEL PARKING SECTION
SCALE: 1" = 1'-0"



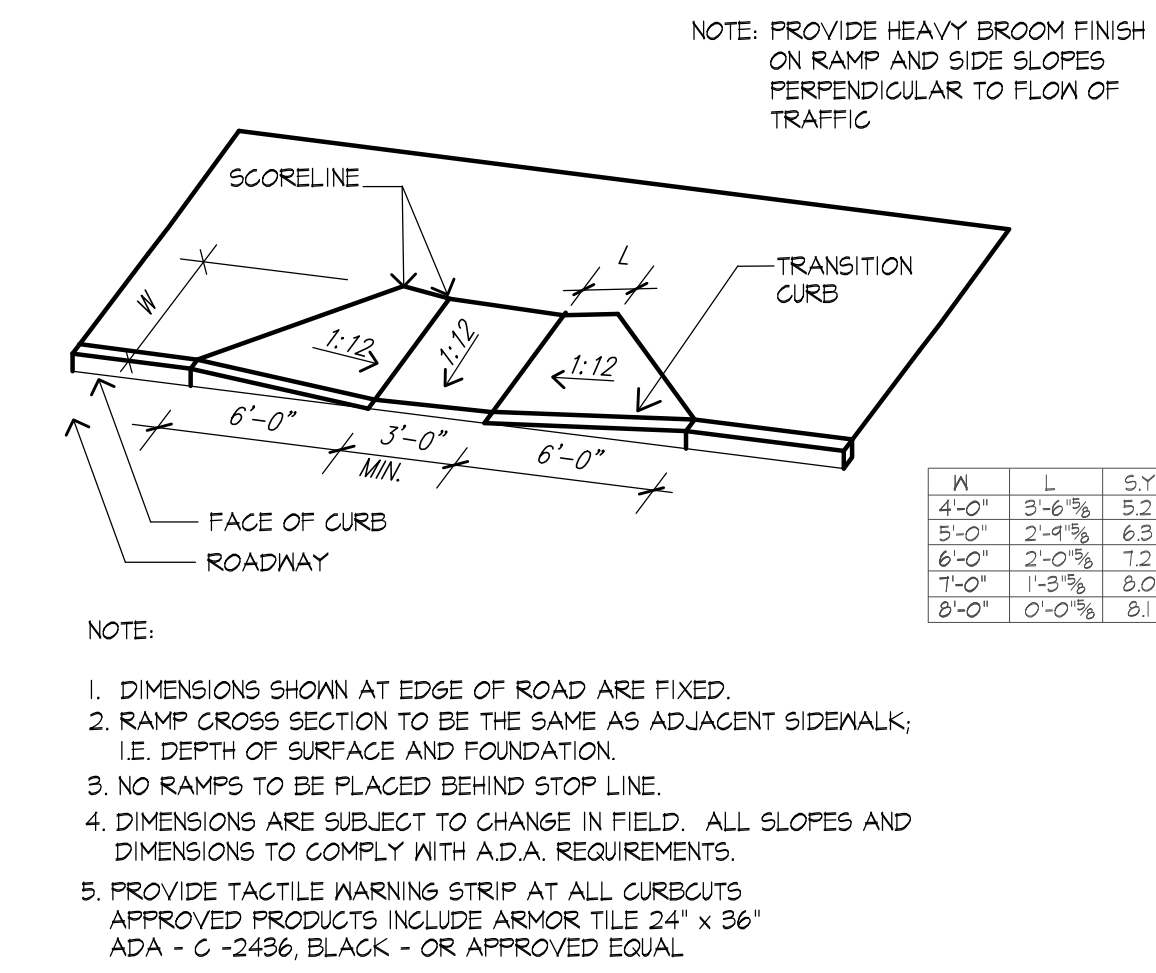
9 4' HIGH METAL PICKET FENCE
SCALE: 1/2" = 1'-0"



10 BRICK PAVERS
SCALE: N.T.S.



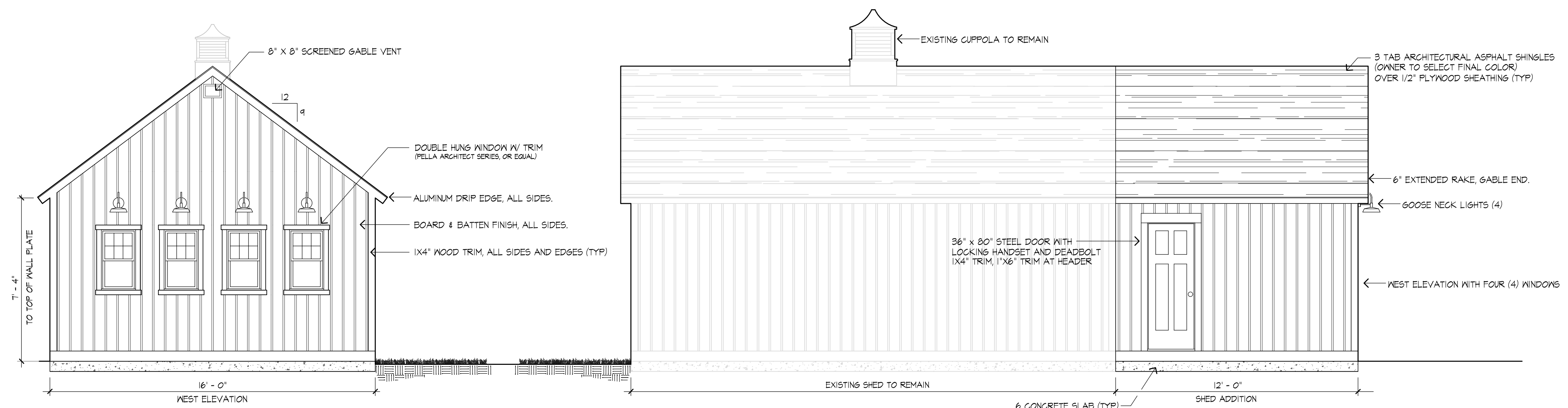
11 UNIT PAVER PATTERN- PLAN VIEW
SCALE: 1" = 1'-0"



12 CURB CUT AND RAMP
SCALE: N.T.S.

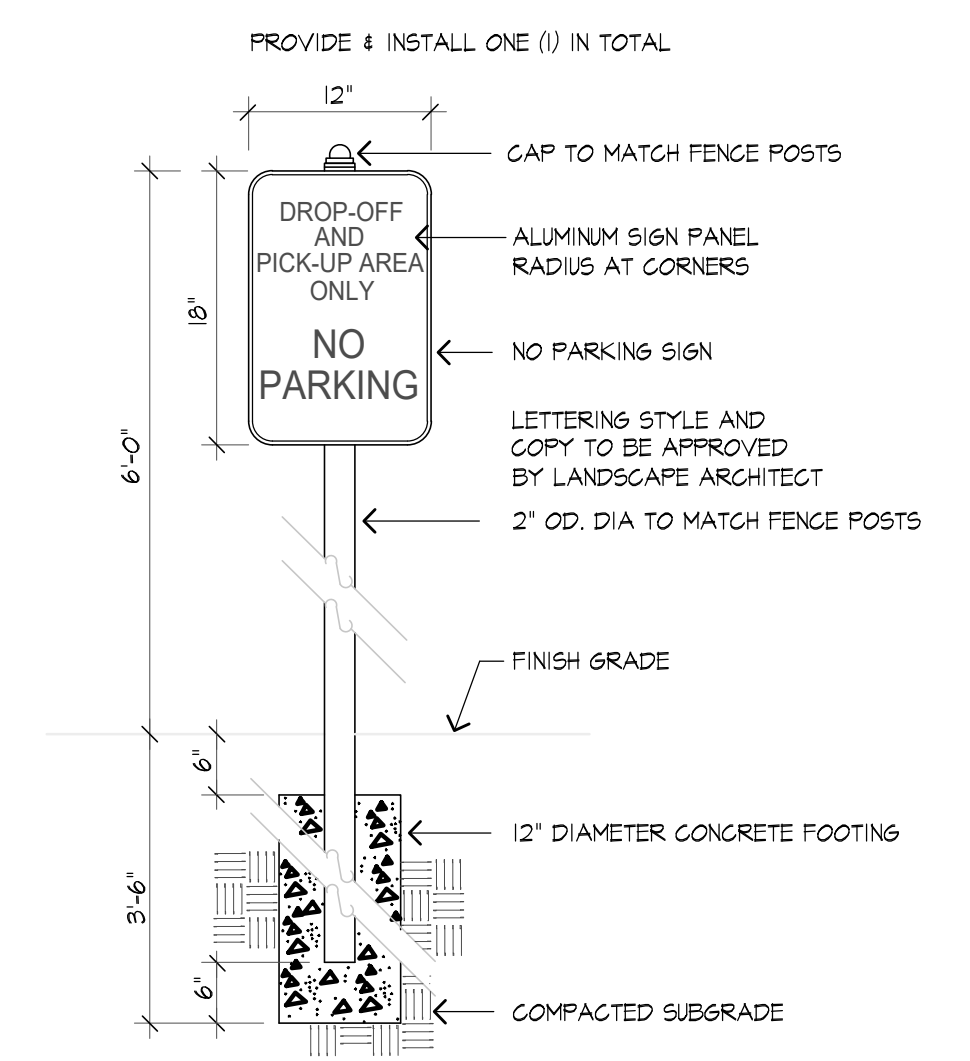
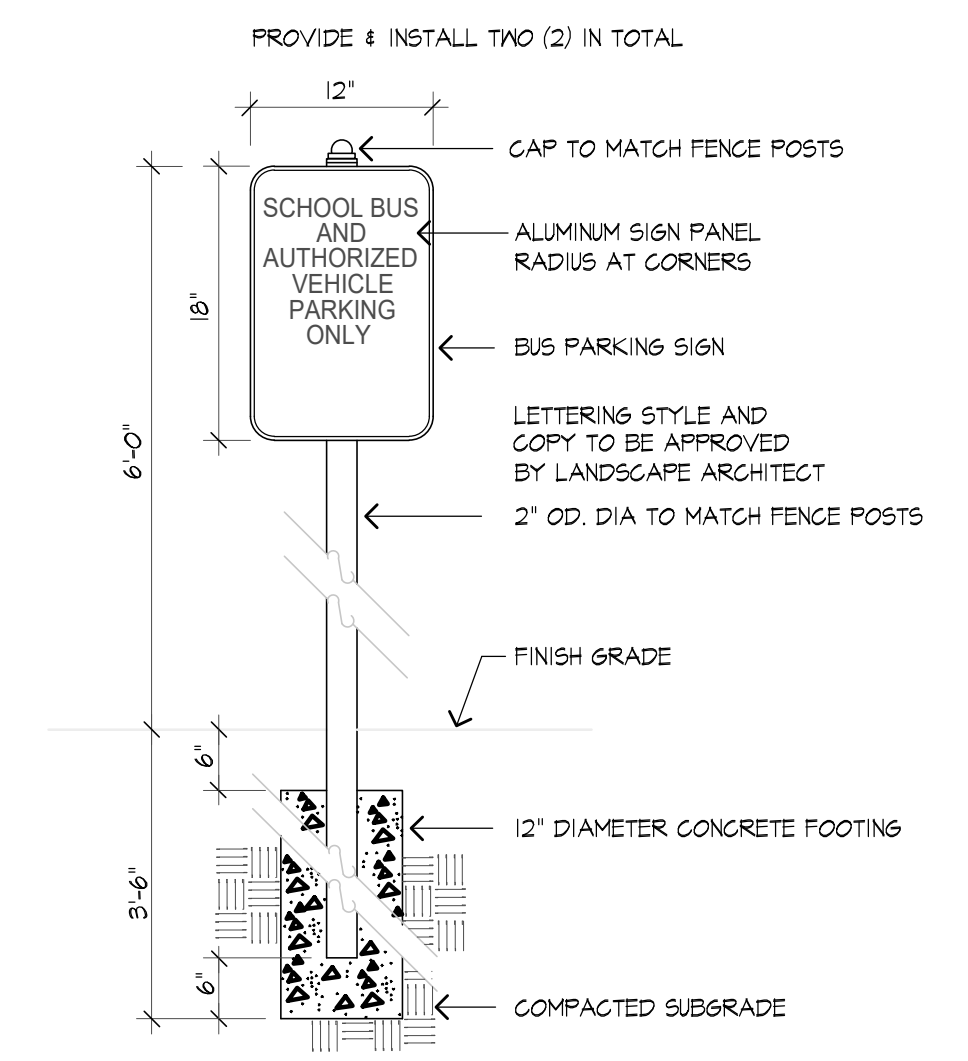
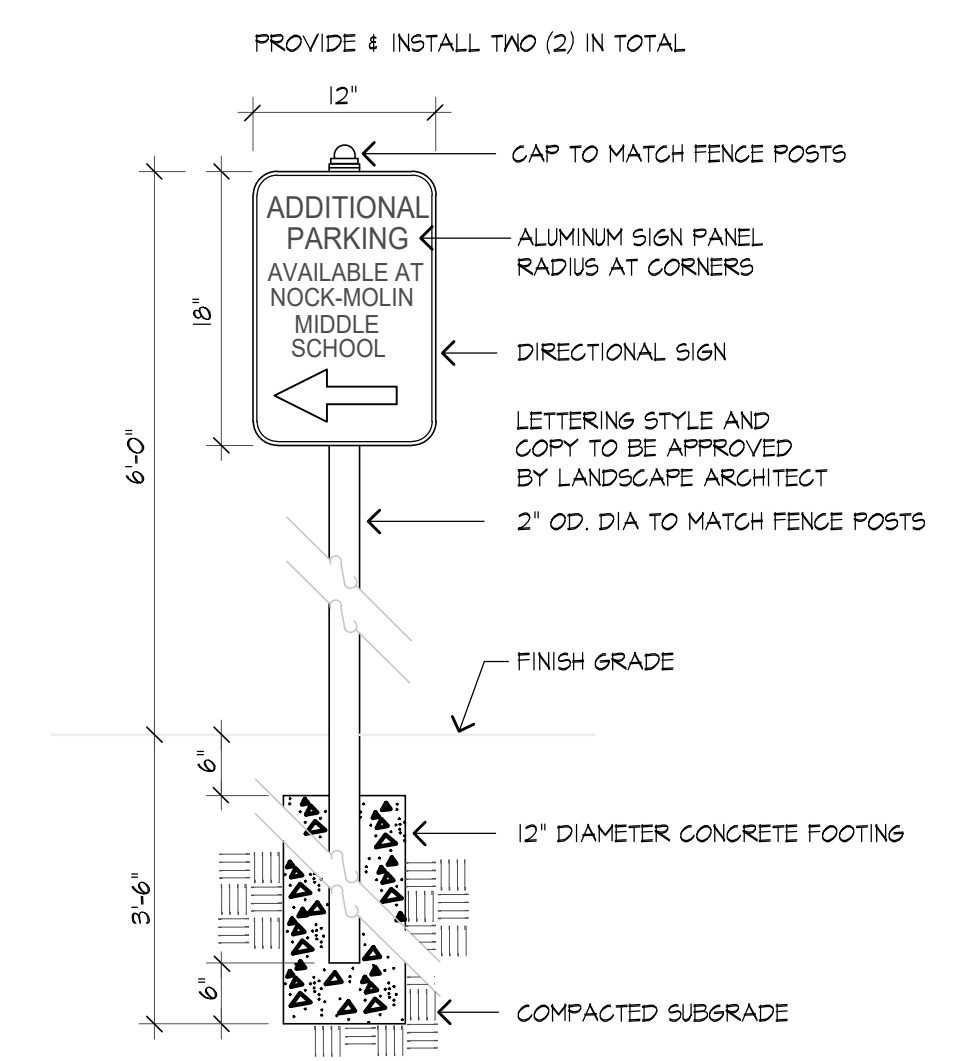
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| Scale: | AS NOTED | Drawing No. | L-3 |
| Date: | 01.13.20 | | |
| Job: | 99-107 | | |
| File: | FR-MP | | |
| Drawn: | CCH | of | |
| Checked: | -- | | 6 |



- STORAGE BUILDING NOTES:**
- GC RESPONSIBLE FOR ANY REQUIRED BUILDING PERMIT.
 - CONCRETE SLAB TO SERVE AS FLOOR (TYP)
 - 2"x4" WALL CONSTRUCTION 16" O.C., DOUBLE TOP PLATE
 - 2"x6" ROOF RAFTERS 16" O.C.
 - ALL INTERIOR WALLS TO RECEIVE 5/8" PLYWOOD
 - EXTERIOR COLORS:
BOARD & BATTEN - COLOR TO MATCH EXISTING TRIM - COLOR TO MATCH EXISTING DOORS & WINDOWS - COLOR TO MATCH TRIM
 - ALL EXTERIOR PAINTED SURFACES TO RECEIVE PRIMER AND TWO (2) COATS OF PAINT, AS RECOMMENDED BY MANUFACTURER, BOTH EXISTING AND PROPOSED STRUCTURE TO BE PAINTED.
 - PROVIDE FT WOOD RAMP, 6'X6" FULL WIDTH OF GARAGE DOOR.
 - COORDINATE SIZE OF CUPOLAS PRIOR TO FABRICATION.
 - PROVIDE & INSTALL FOUR (4) GOOSENECK STYLE LIGHTS AS SHOWN. APPROVED PRODUCTS INCLUDE 14" BLACK GOOSENECK BARN LIGHT LED FIXTURE W/ PHOTOCELL, 42W/3000LM - ENERGY STAR RATED 3000K WARM WHITE LIGHT, AS MANUFACTURED BY HTM LIGHTING SOLUTIONS.

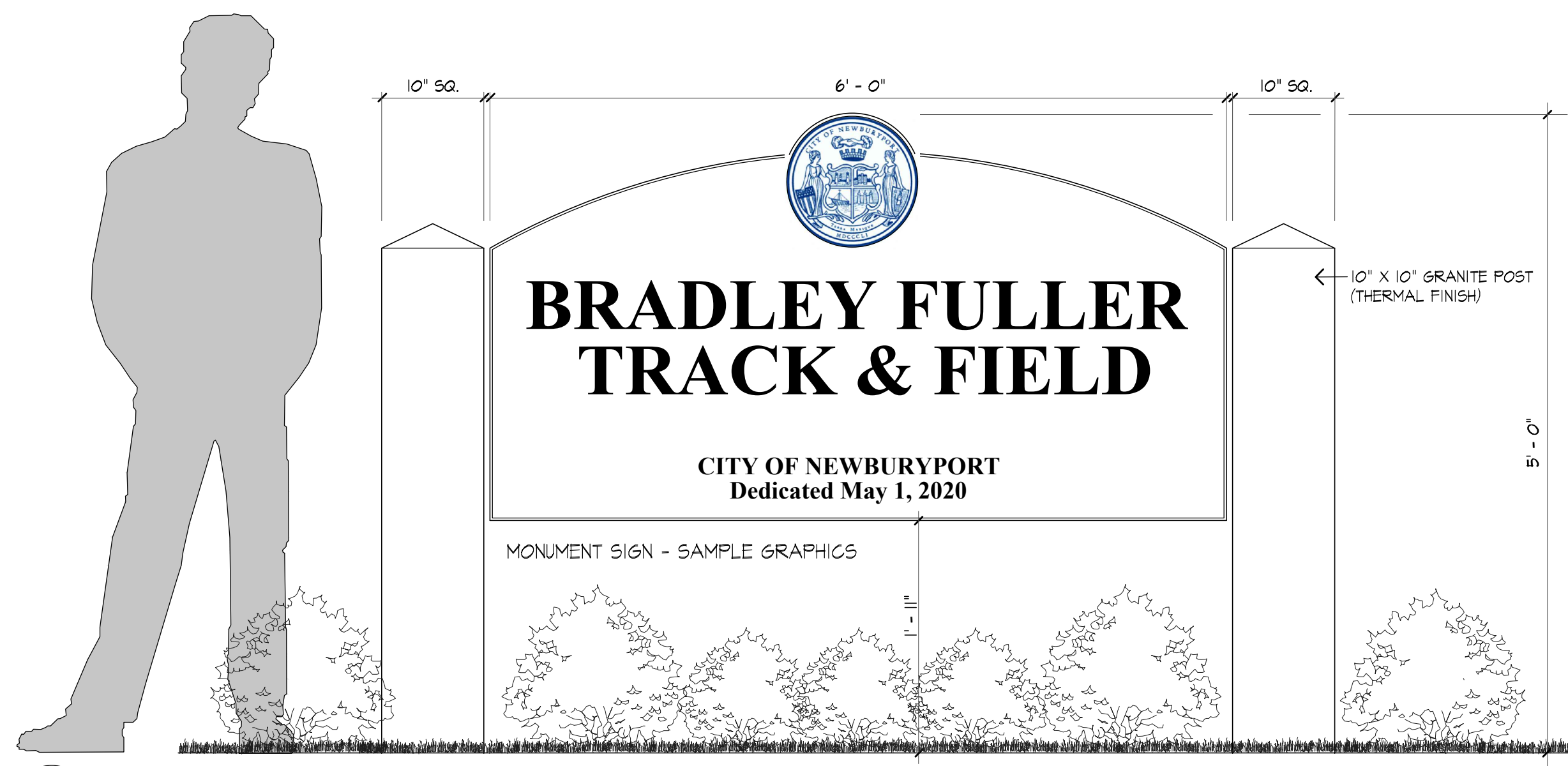
1 TRACK STORAGE SHED - ADDITION
SCALE: NTS 16' X 12' LEXINGTON SHED EXTENSION, AS MANUFACTURED BY POST WOODWORKERS, OR APPROVED EQUAL. (866) 744-7433 - SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO INSTALLATION.



2 TRAFFIC SIGN - TYPE A
SCALE: N.T.S.

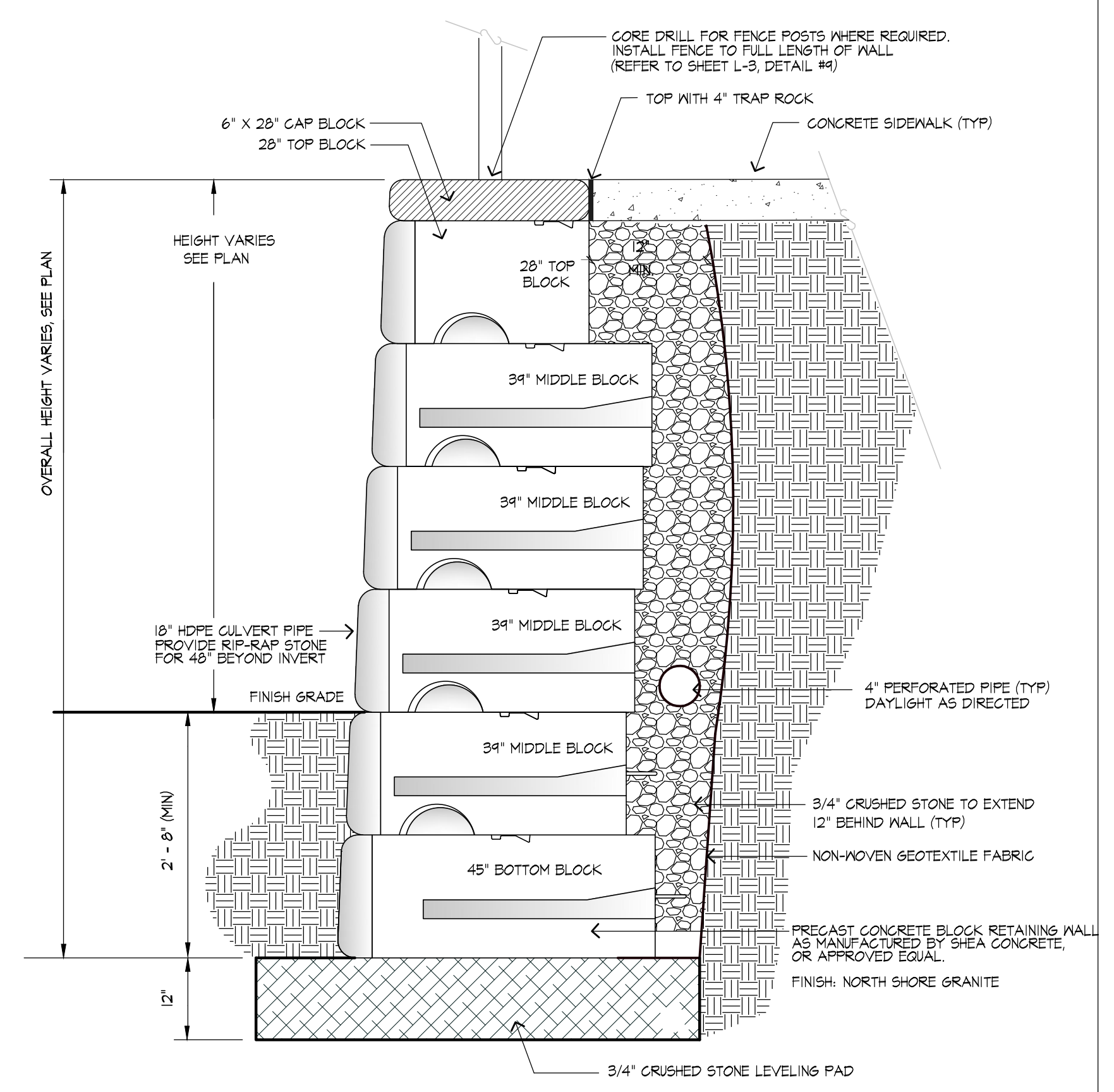
3 TRAFFIC SIGN - TYPE B
SCALE: N.T.S.

4 TRAFFIC SIGN - TYPE C
SCALE: N.T.S.



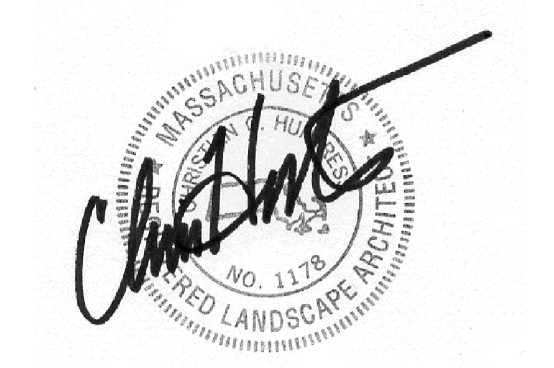
NOTE:
POST SIZE TO BE 10" X 10" X 7' (MIN).
FINISH AS SHOWN.
SET AS DIRECTED BY LANDSCAPE ARCHITECT IN THE FIELD.

5 MONUMENT SIGN - ELEVATION - OPTION 1
SCALE: 1" = 1'



6 CONCRETE BLOCK HEADWALL DETAIL (TYP)
SCALE: 1"=1'-0"

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Project:
**FULLER FIELD
Track & Field
Phase Two**
Newburyport, Massachusetts

Drawing Title:
**Track & Field
Construction Details**

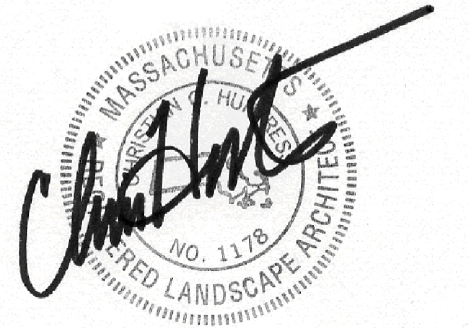
| Revision | Date |
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| Scale: | AS NOTED | Drawing No. | L-4 |
| Date: | 01.13.20 | | |
| Job: | 99-107 | | |
| File: | PR-MP | | |
| Drawn: | GCH | of | |
| Checked: | -- | | 6 |



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Landscape Architecture & Land Planning

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Project:

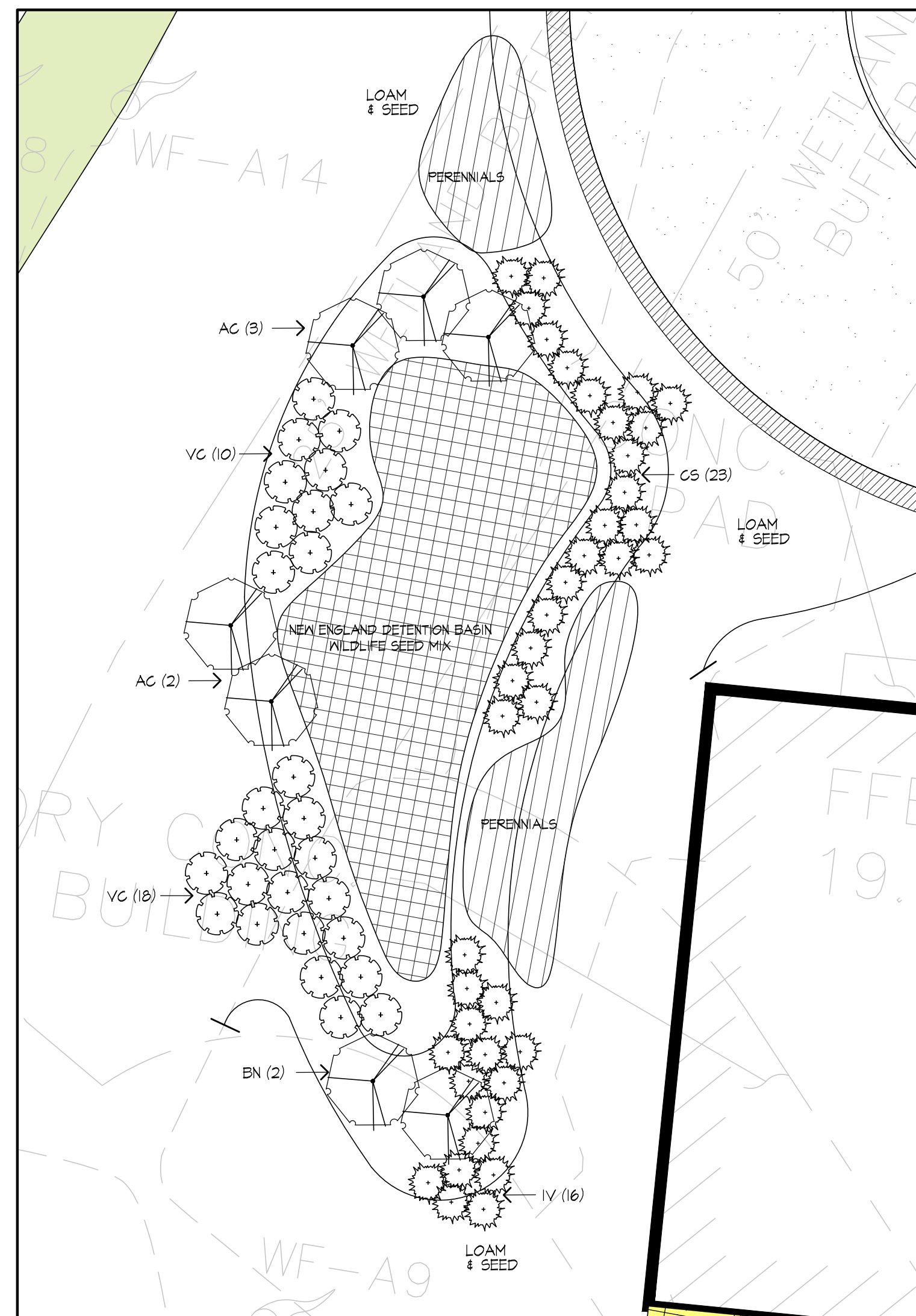
**FULLER FIELD
Track & Field
Phase Two**
Newburyport, Massachusetts

Drawing Title:

**Bio-Retention Area
& Drainage Details**

Revision _____ Date _____

Scale: AS NOTED Drawing No. **L-5**
Date: 01.13.20
Job: 99-107
File: PR-MP
Drawn: CCH of
Checked: -- of **6**



1 BIO-RETENTION AREA - PLANTING PLAN
SCALE: 1" = 10'

BIORETENTION / RAIN GARDEN PLANT LIST (P-M3, P-13)

1. ALL PLANT MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

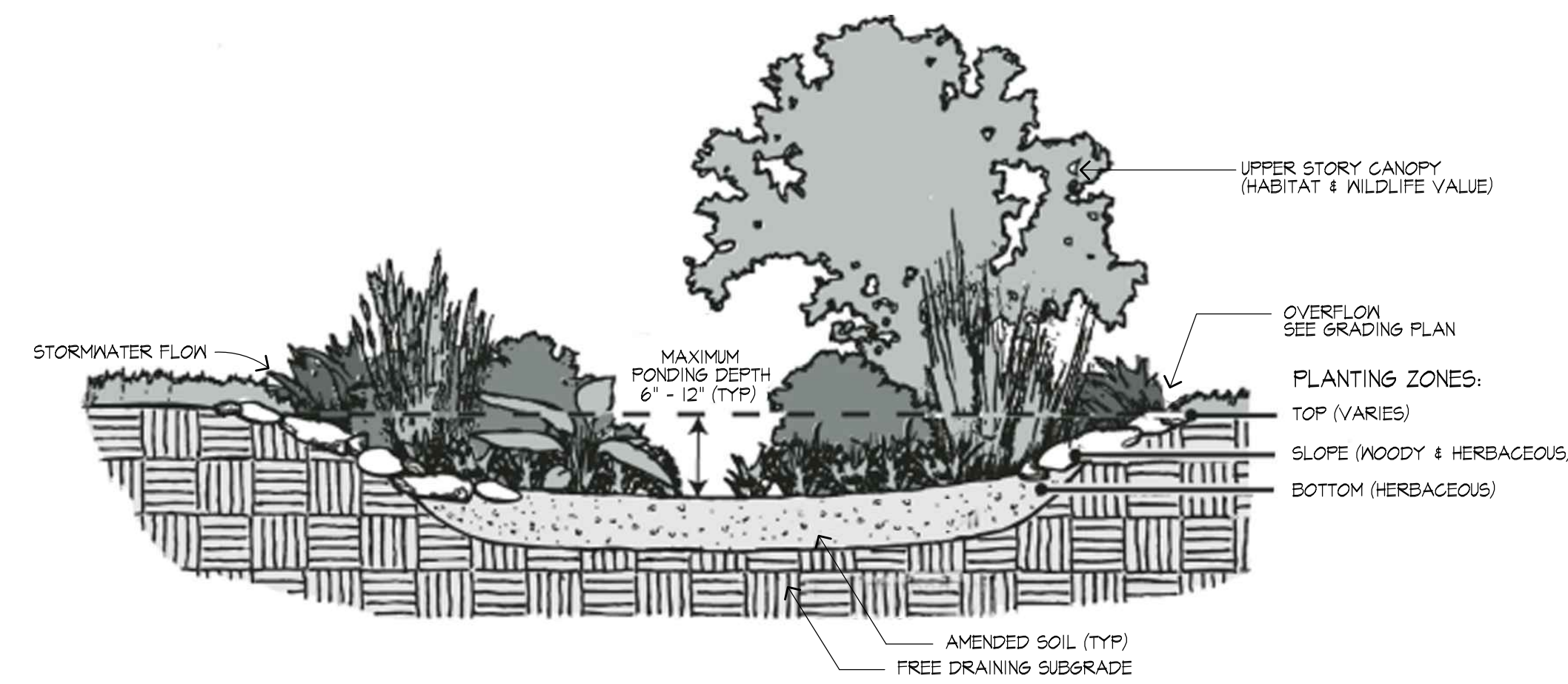
| PLANT MATERIAL | SIZE | QUANTITY |
|--|----------|----------|
| TREES: | | |
| (AC) AMELANCHIER CANDENSIS - SHADBLOW | 4-5' HT. | 5 |
| (BN) BETULA NIGRA - RIVER BIRCH | 4-5' HT. | 2 |
| SHRUBS: | | |
| (CS) CORNUS SERICEA - RED OSIER DOGWOOD | 2-3 GAL. | 23 |
| (IV) ILEX VERTICILLATA - WINTERBERRY | 2-3 GAL. | 16 |
| (VC) VACCINIUM CORYMBOSUM - HIGHBUSH BLUEBERRY | 2-3 GAL. | 28 |
| PERENNIALS & GRASSES: | | |
| (A1) ASCLEPIAS INCARNATA - SWAMP MILKWEED | 1 GAL. | 5 |
| (AST) ASTILEBE | 1 GAL. | 12 |
| (RF) RUSSCOCKIA FULGIDA - BLACK EYED SUSAN | 1 GAL. | 18 |
| (EP) ECHINACEA PALLIDA - PURPLE CONE FLOWER | 1 GAL. | 8 |
| (LS) LIATRIS SPICATA - SPIKED GAY FEATHER | 1 GAL. | 12 |
| (CC) CALAMAGROSTIS CANADENSIS - BLUE JOINT | 2 GAL. | 12 |
| (M5) MISCANTHUS SINENSIS 'SILBERFEDER' | 2 GAL. | 4 |

BIO-RETENTION / WILDLIFE SEED MIXTURES

1. NEW ENGLAND DETENTION BASIN / WILDLIFE SEED MIX

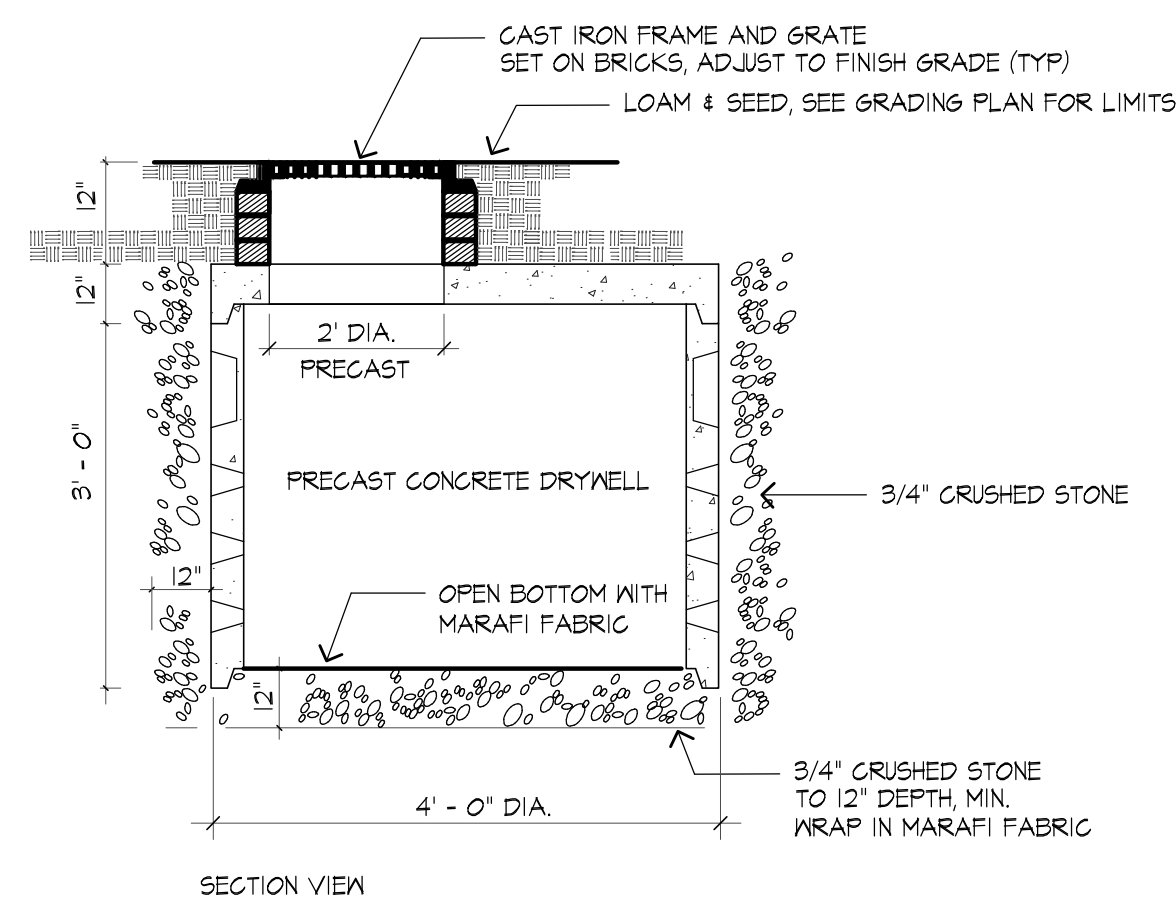
BIG BLUESTEM (ANDROPOGON GERARDII), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUS), SWITCHGRASS (PANGNIUM VIRSATUM), DEERTONGUE (PANGNIUM GLANDOSTRUM), FOWL BLUEGRASS (POA PALUSTRIS), CANADA WILD-RYE (ELYMUS CANADENSIS), PENNSYLVANIA SMARTWEED (POLYGONUM PENNSYLVANICUM), PARTRIDGE PEA (CHAMAECRISTA FASCICULATA), ANNUAL SUNFLOWER (HELIANTHUS ANNUUS), SHOWY TICK-TREFOIL (DESMODIUM CANADENSE), COMMON MILKWEED (ASCLEPIAS SYRIACA), NEW YORK ASTER (ASTER NOVI-BELGII), NODDING BUR-MARIGOLD (BIDENS CERNUA)

APPLICATION RATE: 25 LBS/ACRE (143 SQ FT/LB)
NOTE: THIS SEED MIX IS INTENDED TO BE MOWN TWICE ANNUALLY.

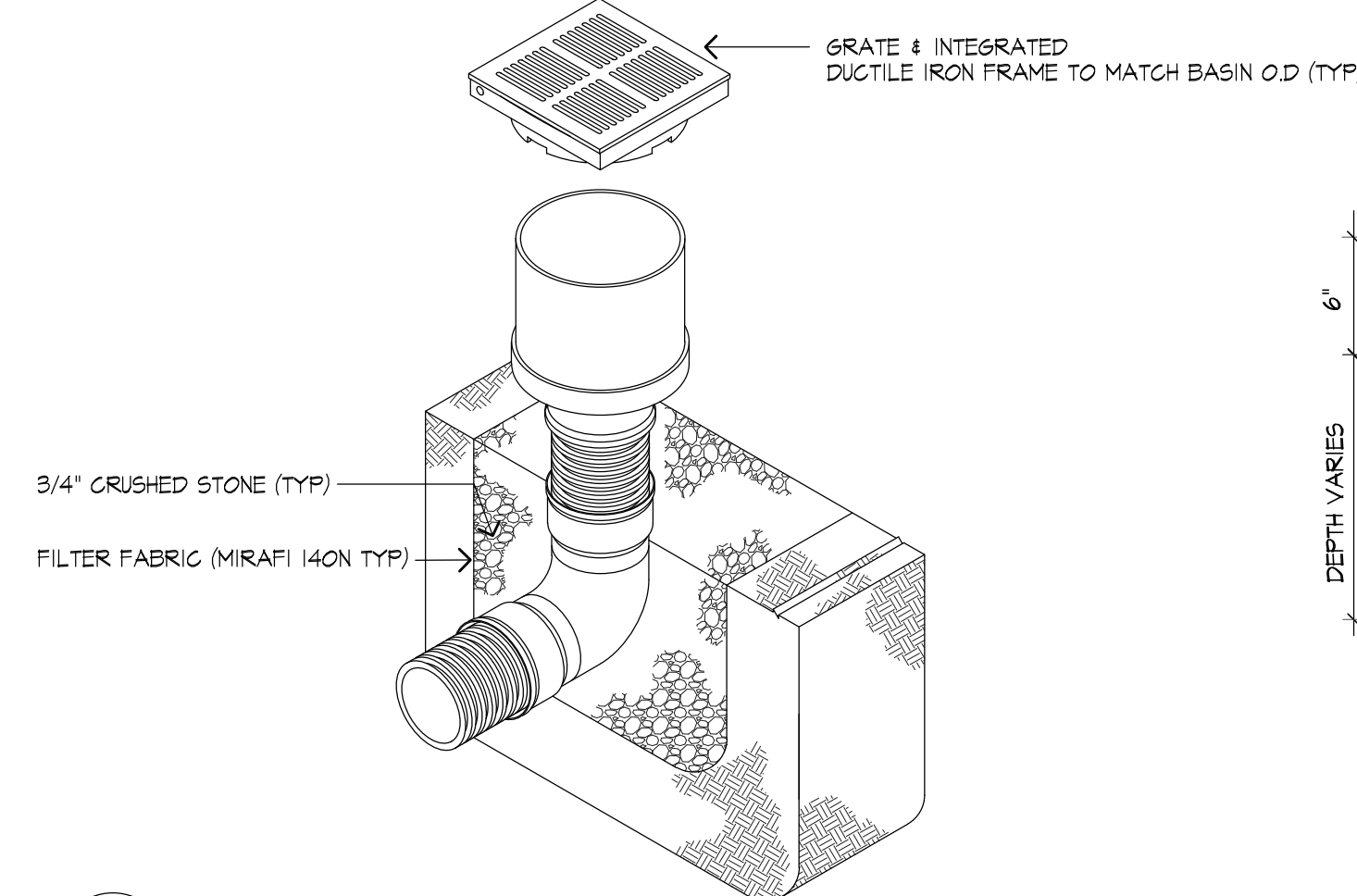


2 BIO-RETENTION AREA - TYPICAL PLANTING CROSS-SECTION
SCALE: N.T.S.

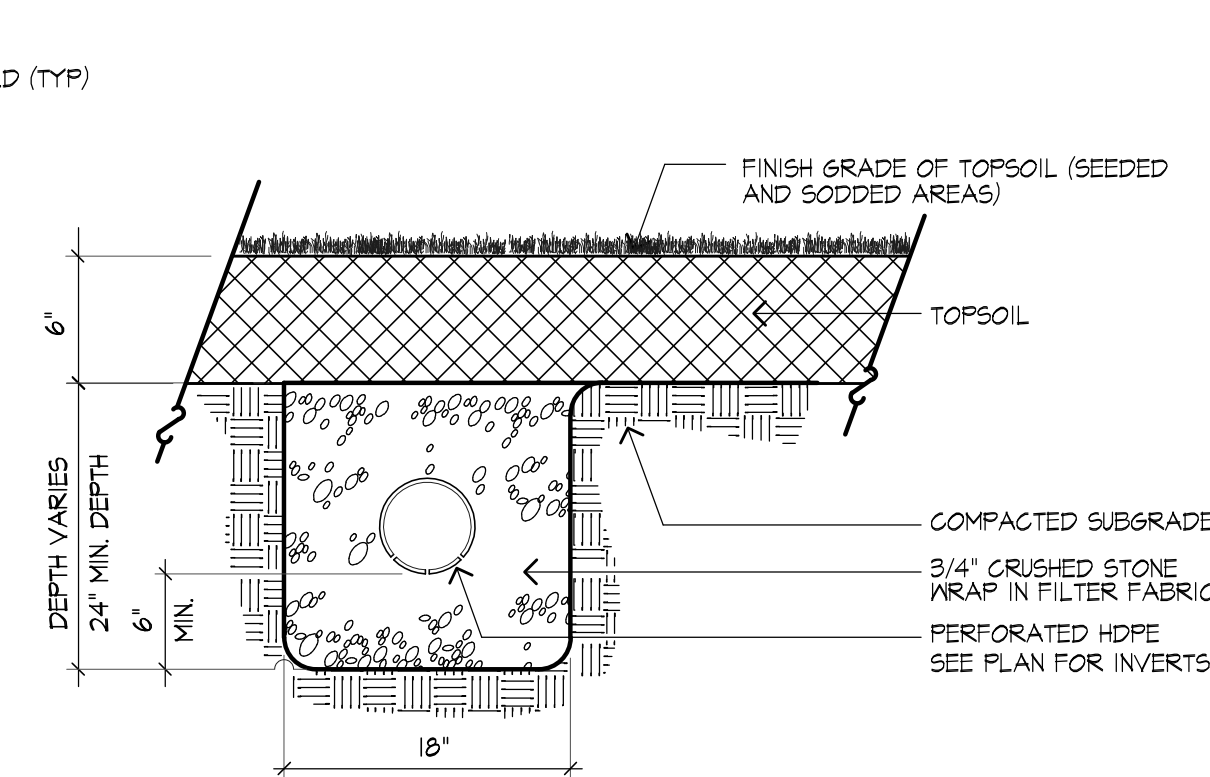
APPROVED PRODUCTS:
1. HARCO IN-LINE DRAIN, OR APPROVED EQUAL.
SEE GRADING PLAN FOR INVERT
COORDINATE WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION



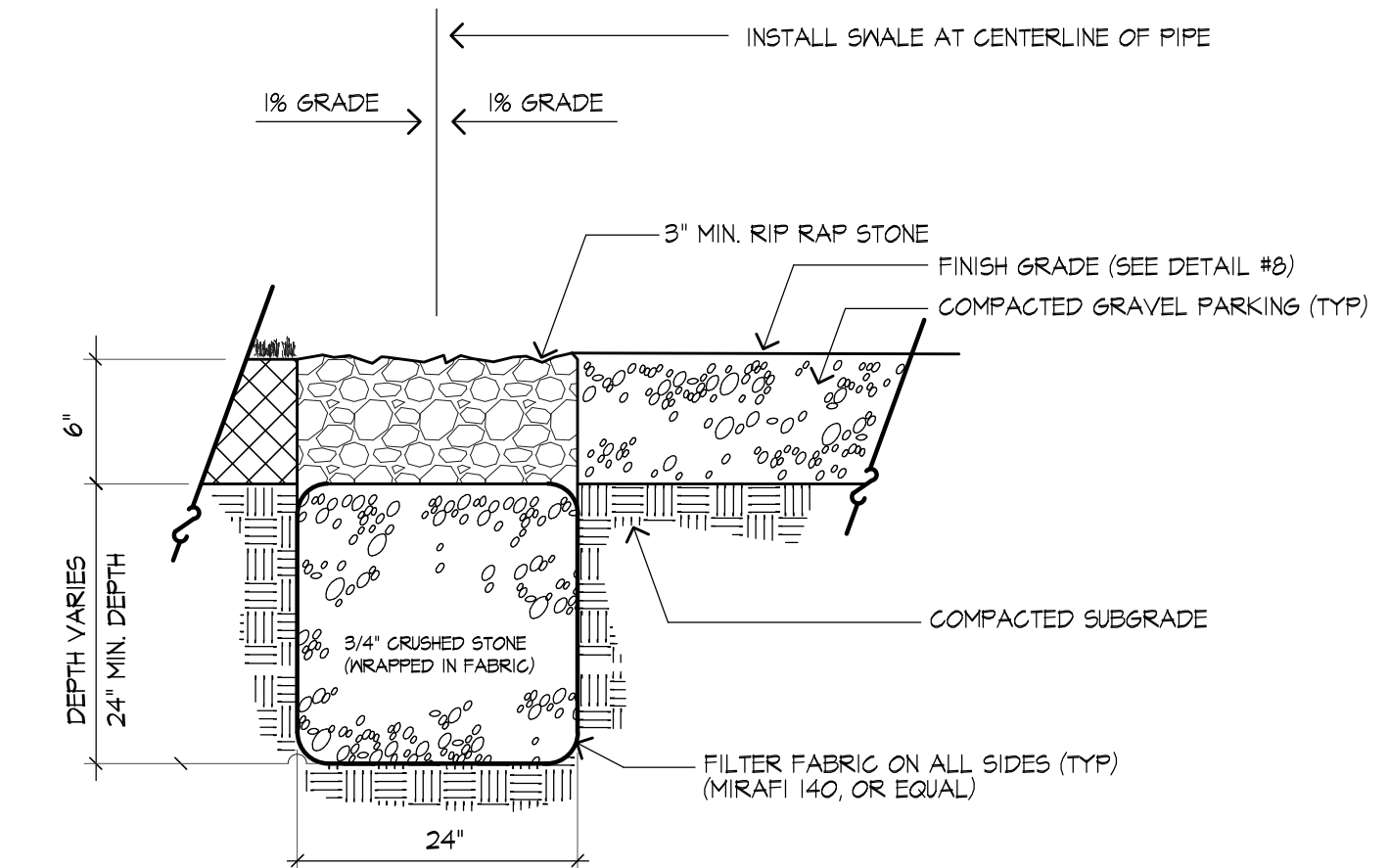
3 LEACHING BASIN



4 AREA DRAIN DETAIL



5 PERFORATED DRAIN LINE



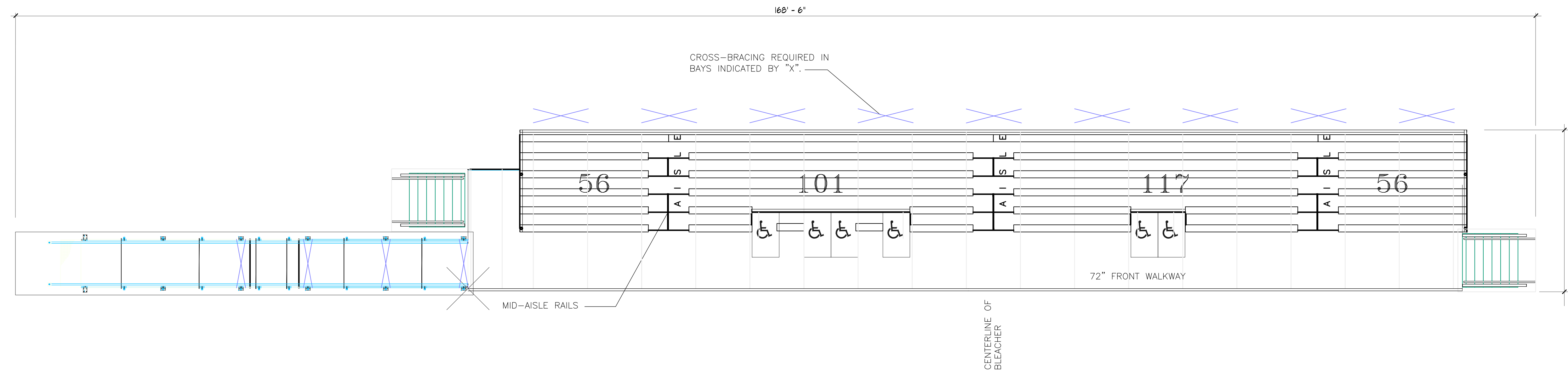
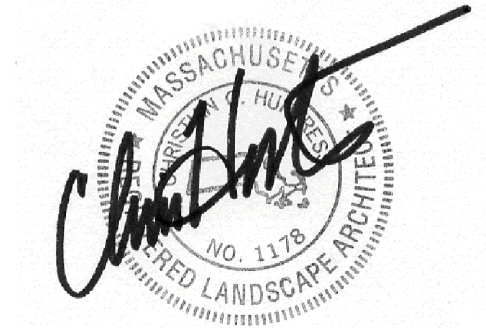
6 INFILTRATION TRENCH



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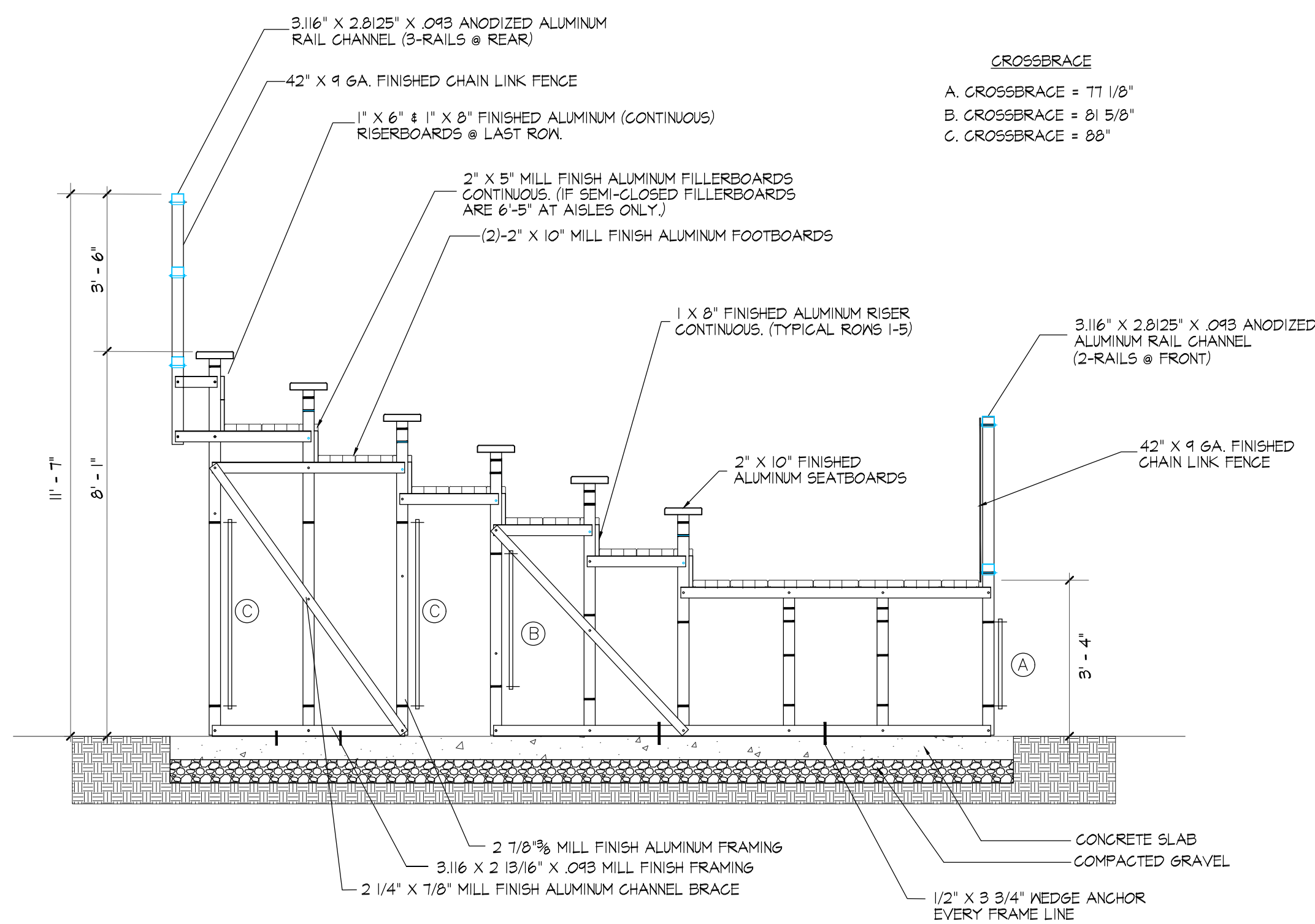
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1 ELEVATED BLEACHER SEATING LAYOUT
SCALE: NTS

SEATING SUMMARY

| | |
|-----------------------------|----------|
| ROWS | 6 |
| RISE / RUN | 8" / 24" |
| ELEVATION | 40" |
| DECK SYSTEM | CLOSED |
| BENCH SEATING CAPACITY | 330 |
| WHEELCHAIR SEATING CAPACITY | 6 |
| COMPANION SEATING | 4 |
| TOTAL SEATING CAPACITY | 340 |



2 ELEVATED BLEACHER CROSS-SECTION
SCALE: NTS

Project:

**FULLER FIELD
Track & Field
Phase Two**

Newburyport, Massachusetts

Drawing Title:

**Bleacher Layout
& Cross-section**

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| Revision | Date |
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| Scale: | AS NOTED | Drawing No. | L-6 |
| Date: | 1.20.20 | Job: | 99-107 |
| File: | FR-MP | Drawn: | CCH of |
| Checked: | -- | | 6 |