

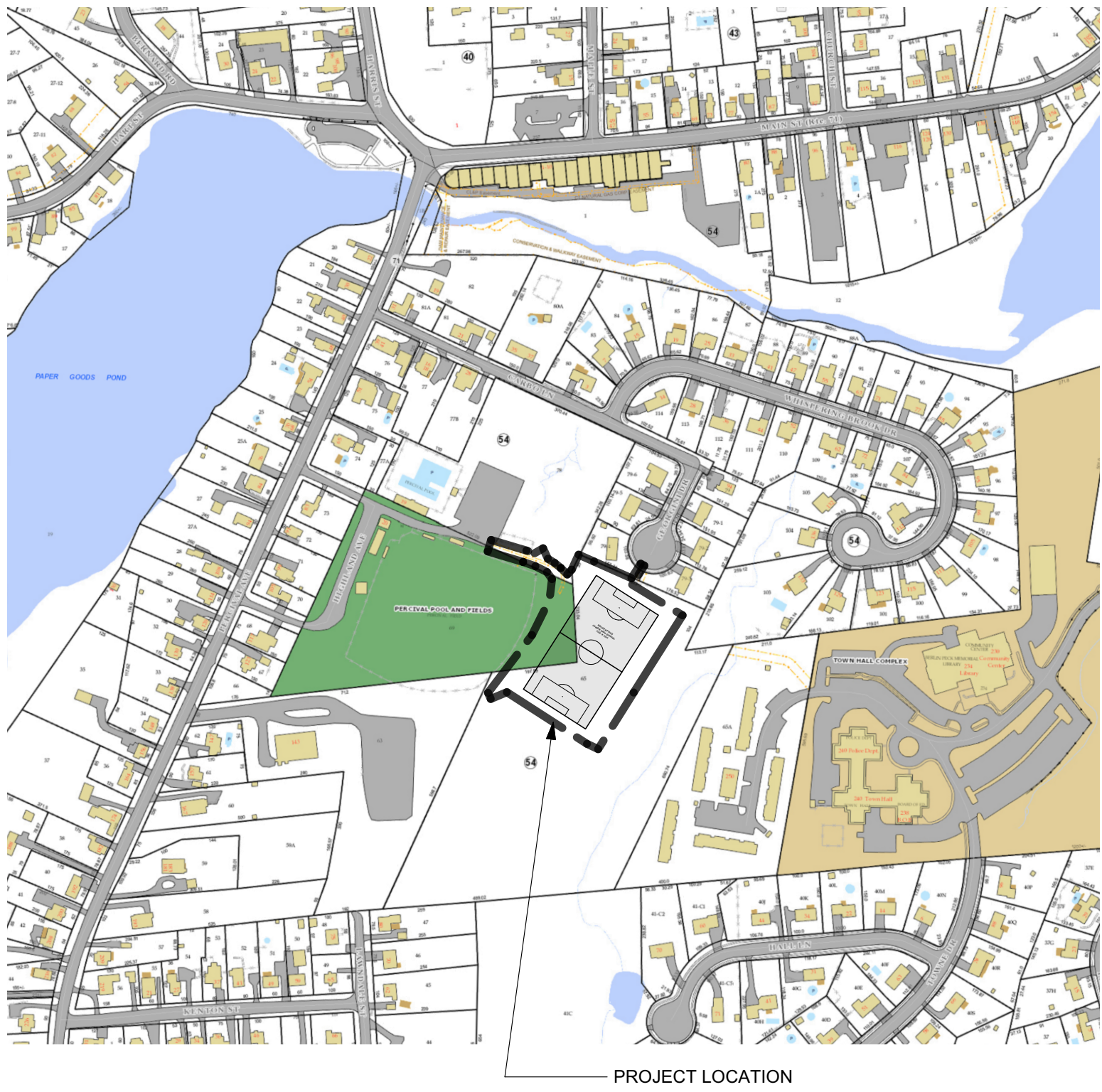
BID DOCUMENTS
BID #2023-12 SITE RENOVATIONS FOR
PERCIVAL SOCCER FIELD



20 HIGHLAND AVENUE
BERLIN, CONNECTICUT
DATE: JANUARY 17, 2023

List of Drawings

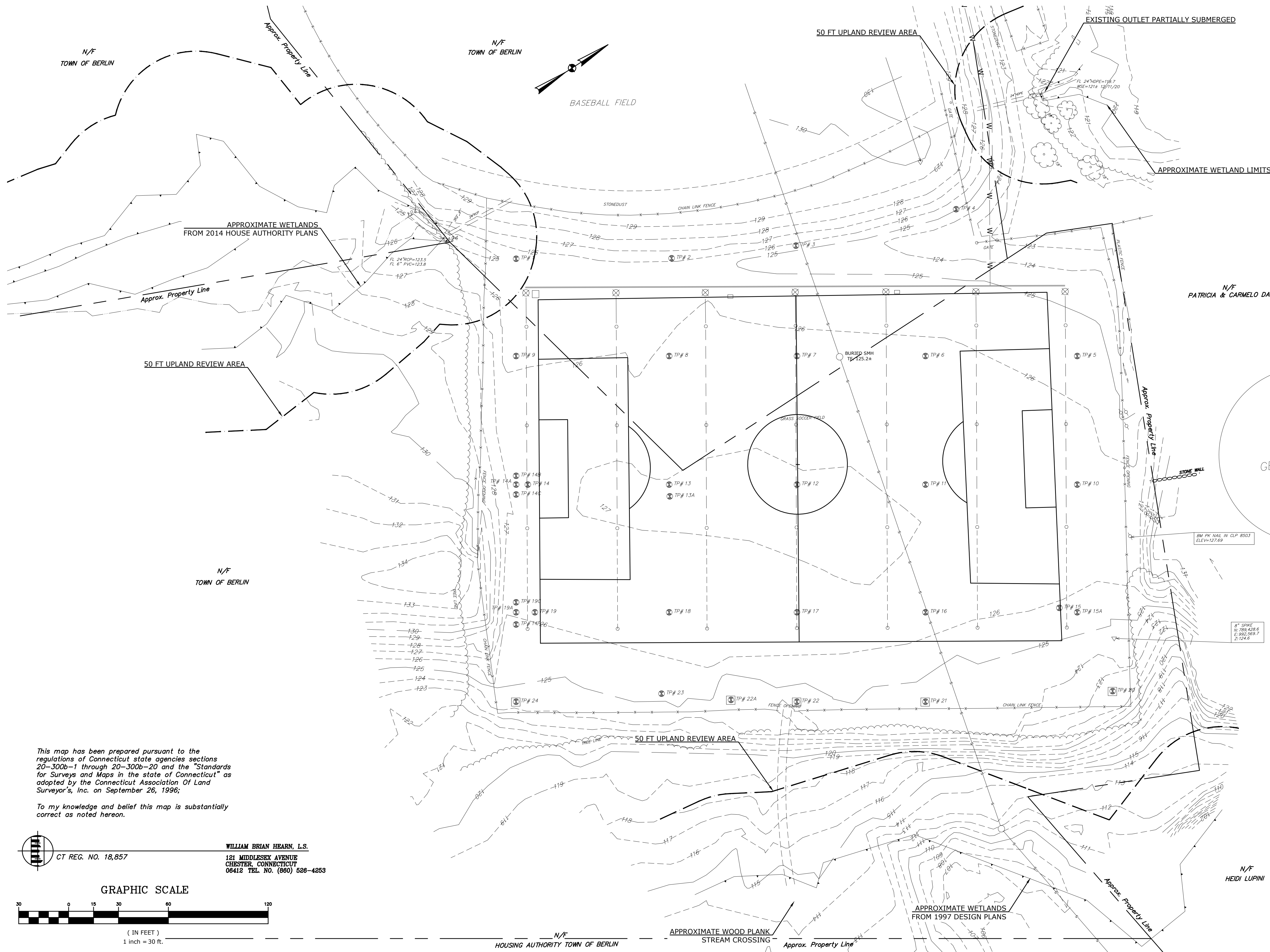
--	COVER
--	SURVEY
L1.0	OVERALL SITE PLAN
L1.1	SITE DEMOLITION PLAN
L1.2	SITE LAYOUT PLAN
L1.3	SITE GRADING & UTILITIES PLAN
L1.4	SITE EROSION & SEDIMENTATION CONTROL PLAN
L1.5	SITE IRRIGATION PLAN & DETAILS
L2.0	SITE DETAILS



Prepared by



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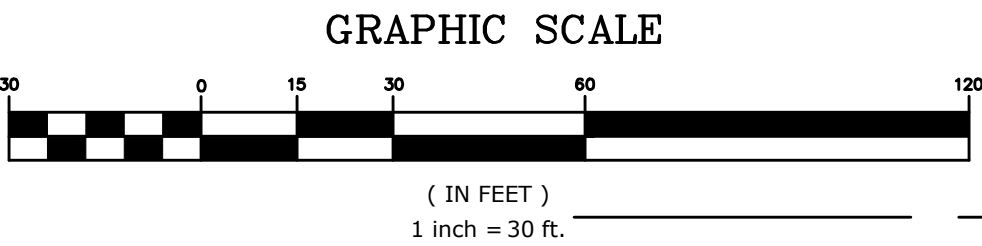
EXISTING LEGEND:

- EXISTING FIELD DIMENSIONS (L = 314' X W = 210')
- TESTPIT - AUGER
- TESTPIT - DEEP TESTPIT
- 50 FT UPLAND REVIEW AREA
- WETLAND LIMITS
- 3" PVC SDR-21 RT MAIN LINE
- 2-1/2" SDR-21 RT MAIN LINE
- 2" SDR-21 ZONE PIPE
- 1-1/2" SDR-21 ZONE PIPE
- 1" SDR-21 ZONE PIPE
- BUCKNER VB-15 SERIES AUTO VALVE
- HUNTER I-40 F.C. ROTARY SPRINKLER
- BUCKNER "25020-07 1" QUICK COUPLING VALVE

This map has been prepared pursuant to the regulations of Connecticut state agencies sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the state of Connecticut" as adopted by the Connecticut Association Of Land Surveyor's, Inc. on September 26, 1996;

To my knowledge and belief this map is substantially correct as noted hereon.

WILLIAM BRIAN HEARN, L.S.
121 MIDDLESEX AVENUE
CHESTER, CONNECTICUT
06412 TEL. NO. (860) 526-4253



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Notes

- Existing survey information provided by the Town of Berlin and obtained from the following source and CAD files of the same:

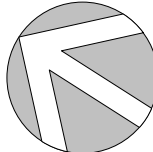
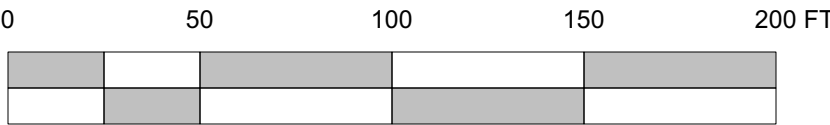
Percival Field
William Brian Hearn, L.S.
- Supplemental aerial plan information obtained from ArcGIS Aerial Mapping.

EXISTING LEGEND

Property Lines	
Fence Line Existing	
Tree Line Existing	
Stone Wall Existing	
Wetland	
Wetland Upland Review Area	
Utility Pole Existing	
Sanitary Manhole (Buried)	
Hydrant	
Tree Existing	

PROPOSED LEGEND

Contract Limit Line	
Bituminous Pavement	
Energy Dissipator	
Crushed Stone Walk	
Drain Basin	
Flared End Section	
Construction Access Point	
Construction Access Route	



BID #2023-12 SITE RENOVATIONS FOR
PERCIVAL SOCCER FIELD
20 HIGHLAND AVENUE
BERLIN, CONNECTICUT



DATE	REVISION

DATE: 01/17/2023
SCALE: 1"=50'-0"
DRAWN BY: DHH
CHECKED BY: TJL

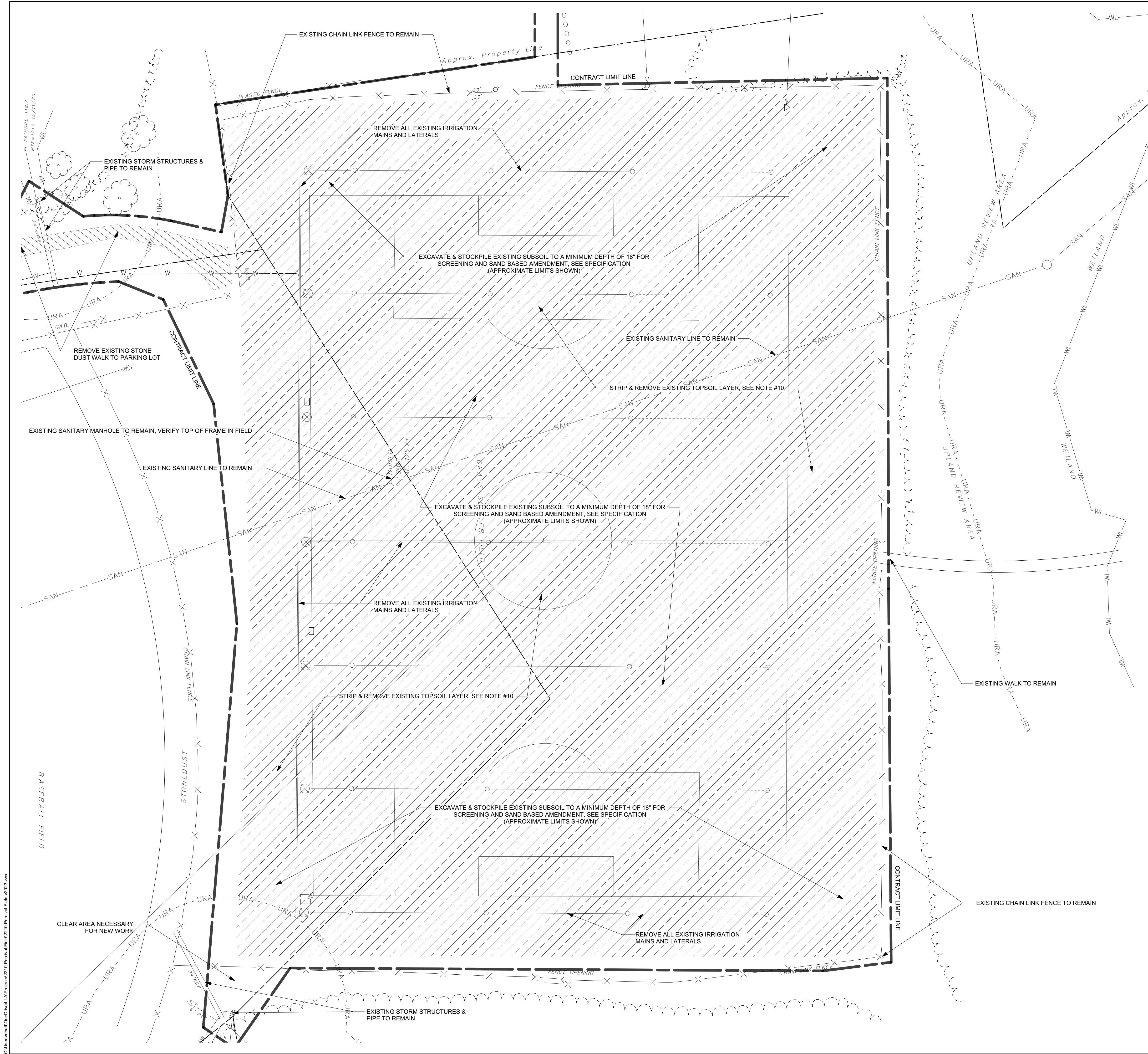
OVERALL SITE
PLAN

L1.0

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Notes

- Existing survey information provided by the Town of Berlin and obtained from the following source and CAD files of the same:

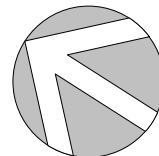
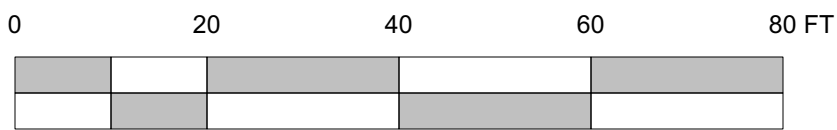
Percival Field
William Brian Hearn, L.S.
- Existing utility information is based on available information and records as shown on the survey. Locations are approximate and all utilities may not be shown on the survey or these site plans. It is the General Contractor's responsibility to have all utility locations marked on the ground prior to the start of any construction activities whether on public or private property. In Connecticut the "Call-before-you-dig" number is 1-800-922-4455, or nationwide at 811 or www.call811.com.
- The Contractor shall install all necessary erosion control measures prior to the start of construction activity. See specific requirements on Sheet L2.0.
- The Contract Limit Line is the property line unless otherwise shown.
- Work within the Town of Berlin right-of-way shall be in accordance with the current town standards. The Contractor shall be responsible for all permitting, fees and inspections as required by the municipality.
- The Contractor is required to maintain, or permanently move as may be necessary, existing benchmarks within the area of work. See the specification for detailed requirements.
- Where existing pavement and/or curb is to be removed for the installation of new utilities, saw-cut a clean straight edge (remove to nearest joint if concrete), install utilities, and replace pavement and/or curb to match cross-section and type. Limits of existing pavements and curbs to remain shall be neatly saw-cut to provide a clean joint or finished edge.
- Removal of site improvements shall include all footings and subsurface elements related to the items designated for removal, except where indicated otherwise. Removal of trees and shrubs shall include clearing and grubbing of stumps.
- Debris shall be promptly removed from site and legally disposed of by the Contractor.
- Assumed depth of topsoil is 2 inches. Total depth of excavation, topsoil plus subsoil is 20 inches below finished grade.

EXISTING LEGEND

Property Lines	
Contract Limit Line	
Fence Line Existing	
Tree Line Existing	
Stone Wall Existing	
Wetland	
Wetland Upland Review Area	
Sanitary Line Existing	
Storm Line Existing	
Water Line Existing	
Utility Pole Existing	
Sanitary Manhole (Buried)	
Tree Existing	

EXISTING TO BE REMOVED

Subbase Excavation	
Existing Stone Path	
Irrigation Lines	






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PERCIVAL SOCCER FIELD

20 HIGHLAND AVENUE
BERLIN, CONNECTICUT

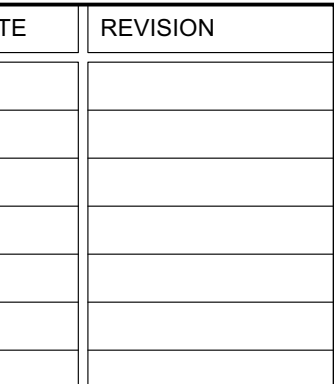
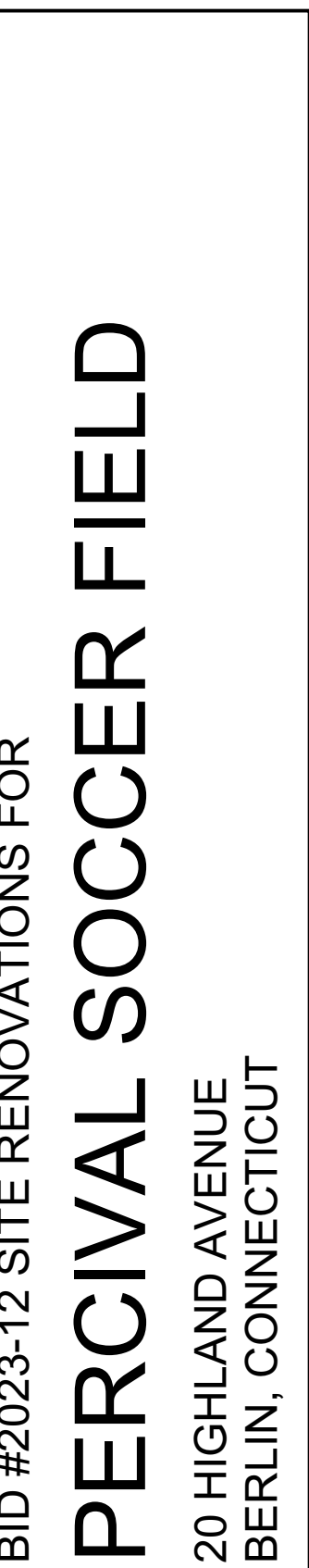


DATE	REVISION

DATE: 01/17/2023
SCALE: 1"=20'-0"
DRAWN BY: DHH
CHECKED BY: TJL

SITE DEMOLITION PLAN

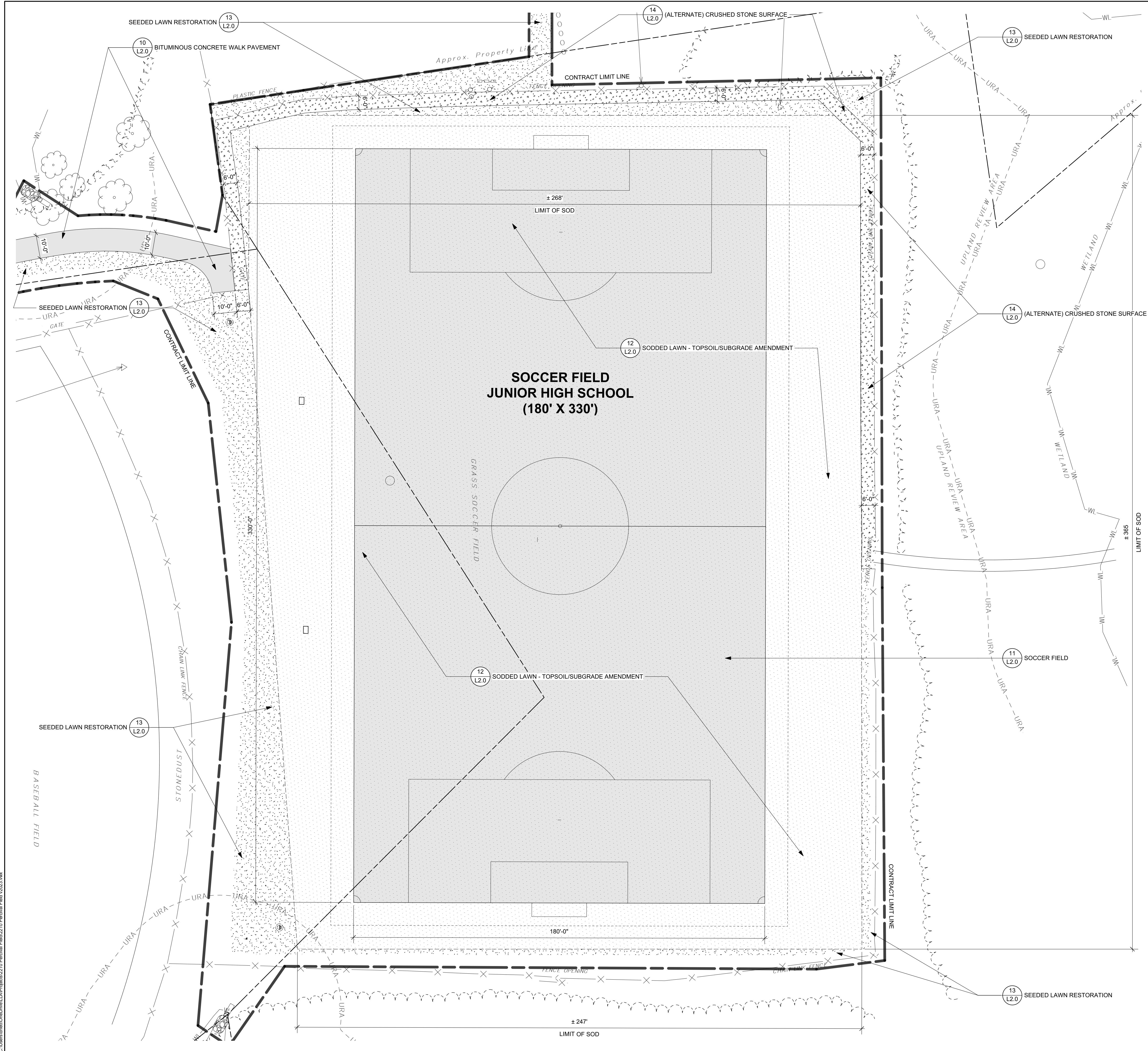
L1.1



DATE:	01/17/2023
SCALE:	1"=20'-0"
DRAWN BY:	DHH
CHECKED BY:	TJL

ITE LAYOUT PLAN

1.2





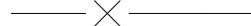

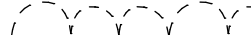


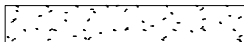

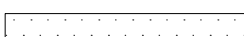










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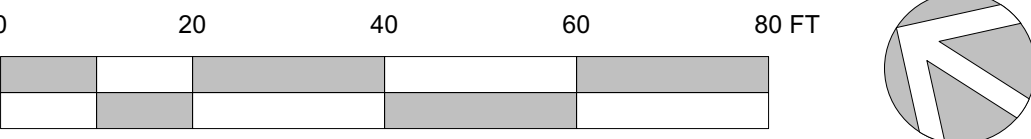
1. Do not scale the drawings. Use the dimensions shown. If CAD files are provided, it is done so as a convenience to the Contractor; the printed plans govern. The Contractor shall verify existing conditions and dimensions in the field prior to the start of work. Once work commences, he shall be held responsible for any discrepancies. If there are discrepancies or questions, contact the Architect prior to the start of work.
2. All dimensions are to the nearest foot and all angles are 90°, unless otherwise noted. All radii are 5 feet, unless otherwise noted.
3. New pavement and curb shall meet the line and grade of existing pavement and curb, unless shown otherwise.
4. Where new bituminous pavement and/or curb abuts existing bituminous material, apply tack coat to the entire saw-cut edge immediately prior to placing the new material. Tack coat is required prior to the placement of bituminous curbing. Tack coat is required between successive courses of pavement if in place for more than five (5) days.
5. The General Contractor shall coordinate the work shown on these site drawings with the work involved with all other disciplines.
6. The corners of all fields, bases and measuring points shall be located and pinned with permanent markers as detailed and/or specified. Prior to final acceptance, all field outlines only shall be marked on the ground.
7. The following are the acceptable planting season dates:

Deciduous Materials	March 15 - June 1 and September 1 - November 1
Evergreen Materials	March 15 - May 15 and September 1 - November 1
Seeding	March 15 - June 1 and August 15 - October 15
Sodding	March 1 - June 1 and September 15 - December 1

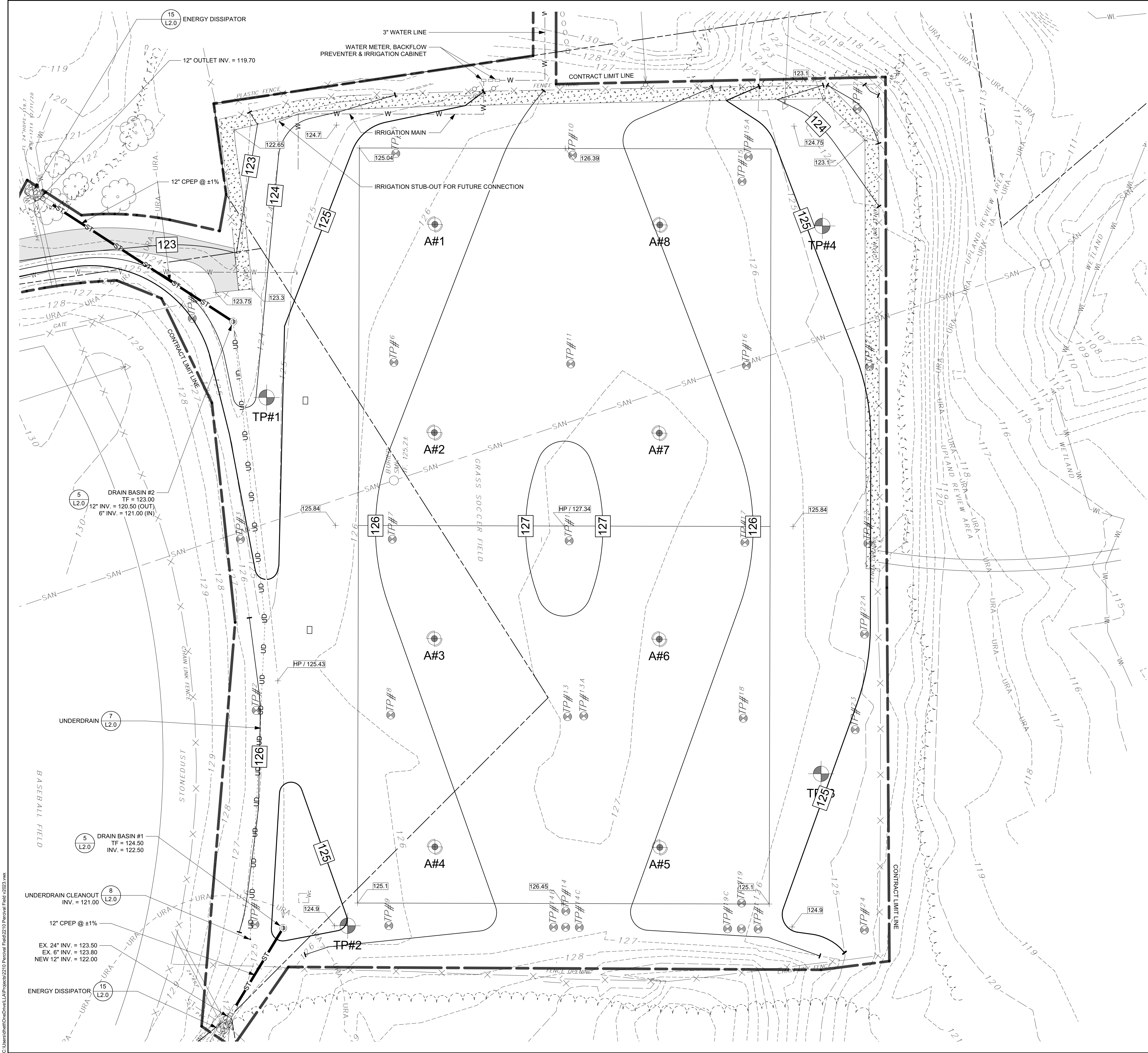
Proceed with planting only when current and forecasted conditions are favorable for types of materials to be installed. Planting out of season must be requested in writing. If allowed, the Contractor is still responsible for all specified maintenance and care and any additional needs necessary for plant survival.

3. All areas within the contract limits and/or seeding limits as shown shall be topsoiled and seeded to lawn. The General Contractor shall responsible for any areas outside of these limits which may have been disturbed by any construction activities. These areas shall have the subsoil loosened, additional topsoil supplied, fine graded and seeded to lawn and then maintained as detailed and specified.

EXISTING LEGEND		PROPOSED LEGEND	
Property Lines		Contract Limit Line	
Fence Line Existing		Bituminous Pavement	
Tree Line Existing		Energy Dissipator	
Stone Wall Existing		Topsoil & Seed Restoration	
Wetland		Sodded Lawn	
Wetland Upland Review Area		Crushed Stone Walk	
Utility Pole Existing		Flared End Section	
Sanitary Manhole (Buried)		Drain Basin	
Tree Existing		Underdrain Cleanout	
		Detail Callout	 DETAIL # SHEET #
		Section-Elevation Line	



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Notes

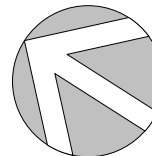
1. New pavement and curb shall meet line and grade of existing pavements and curb, unless otherwise noted. Provide a clean, straight saw-cut edge where they meet. Proposed field grades shall meet line and grade of existing grades, unless otherwise noted. Blend all proposed grades into existing grades smoothly and neatly.
2. All proposed walks shall be cross-pitched at 1/4" per foot (2%) maximum, unless otherwise noted.
3. All site walks along designated "Accessible Routes" shall have a maximum slope of 1:20 (5%) with a maximum cross-slope of 1:48 (2.08%). A.D.A. requirements.
4. See Sheet L2.0 for extent and required depth and width of new topsoil, subgrade and amended soil.

EXISTING LEGEND

Property Lines	
Fence Line Existing	
Tree Line Existing	
Stone Wall Existing	
Wetland	
Wetland Upland Review Area	
Contour Major	
Contour Minor	
Sanitary Line Existing	
Storm Line Existing	
Water Line Existing	
Test Pit	
Auger Hole	
Test Pit (previous project)	
Utility Pole Existing	
Sanitary Manhole (Buried)	
Tree Existing	

PROPOSED LEGEND

Contract Limit Line	
Storm Line	
Storm Underdrain	
Water Line	
Bituminous Pavement	
Energy Dissipator	
Crushed Stone Walk	
Test Pit (previous project)	
Drain Basin	
Flared End Section	
Underdrain Cleanout	
Contour Major	
Contour Minor	
Spot Grade	
Detail Callout	



BID #2023-12 SITE RENOVATIONS FOR

PERCIVAL SOCCER FIELD

20 HIGHLAND AVENUE
BERLIN, CONNECTICUT



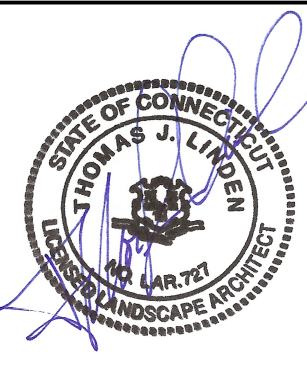
DATE	REVISION

DATE: 01/17/2023
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CHECKED BY: TJL

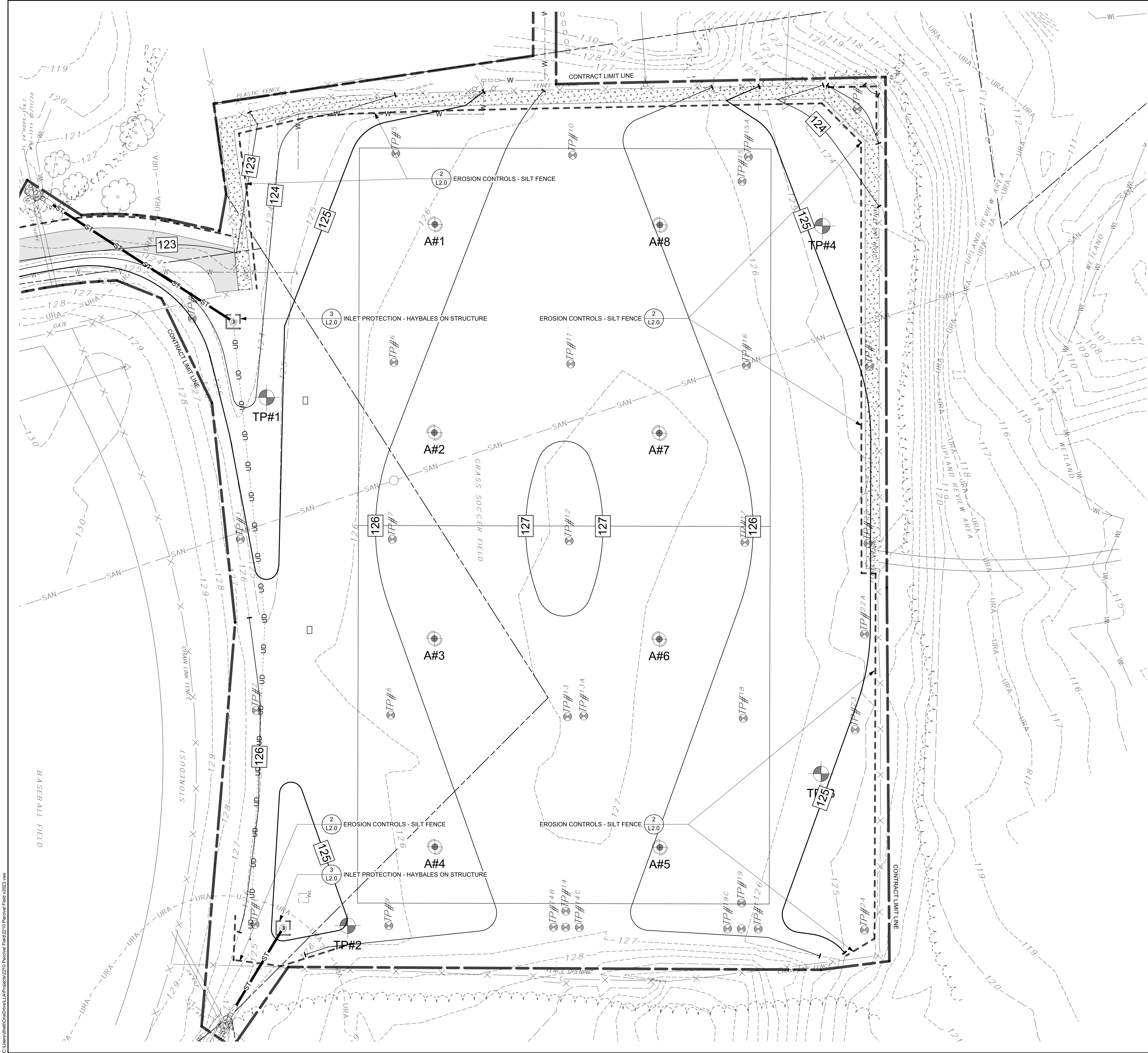
SITE GRADING &
UTILITIES PLAN

L1.3

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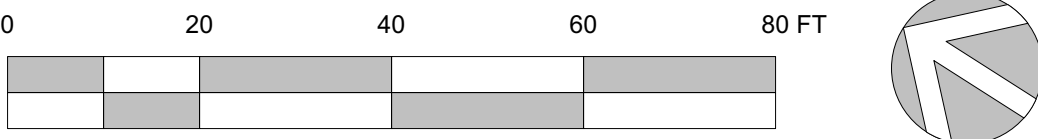


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- Notes**
1. The General Contractor shall be responsible for the installation and maintenance of erosion control measures shown on this plan, and any additional measures as may be necessary or required throughout construction, until final surface finishes have been established and accepted.
 2. Erosion control measures shall be in accordance with the standards of the "Connecticut Guidelines For Soil Erosion And Sediment Control," 2002 and as amended, the standards of <city>, and as shown on these plans and specifications, whichever is the most stringent.
 3. See the specification, additional notes and/or schedules and details for additional information and requirements.
 4. Erosion controls must be installed prior to the start of any construction activities. Limited clearing (but no grubbing) and site disturbance is allowed in order to facilitate installation of erosion controls.
 5. The Contractor shall carry in his Bid the cost to provide one Construction Entrance, as detailed and specified, to be located where construction vehicles enter and/or exit the site. Should the Contractor desire additional access points to accommodate his construction operations, he shall provide additional Construction Entrances, as detailed, at no additional cost to the Contract.
 6. All areas disturbed by construction activities, whether inside the Contract Limit Line or beyond, not covered by buildings or pavements, shall be topsoiled and seeded as lawn.
 7. The Contractor shall monitor all new or modified drainage structure sumps within the contract limits and shall pump sumps clean of silt and debris when more than 3/4 full and/or immediately prior to final acceptance.

EXISTING LEGEND		PROPOSED LEGEND	
Property Lines	---	Contract Limit Line	---
Fence Line Existing	---	Erosion Control Fence	---
Tree Line Existing	---	Storm Line	ST
Stone Wall Existing	---	Storm Underdrain	UD
Wetland	WL	Water Line	W
Wetland Upland Review Area	URA	Bituminous Pavement	---
Contour Major	125	Energy Dissipator	---
Contour Minor	127	Crushed Stone Walk	---
Sanitary Line Existing	SAN	Test Pit (original)	TP#
Storm Line Existing	ST	Drain Basin	---
Water Line Existing	W	Flared End Section	---
		Underdrain Cleanout	---
Test Pit	TP#	Contour Major	125
Auger Hole	A#	Contour Minor	127
Test Pit (previous project)	TP#	Detail Callout	1 L2.0 SHEET #
Utility Pole Existing	---		
Sanitary Manhole (Buried)	---		
Tree Existing	---		



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PERCIVAL SOCCER FIELD
20 HIGHLAND AVENUE
BERLIN, CONNECTICUT

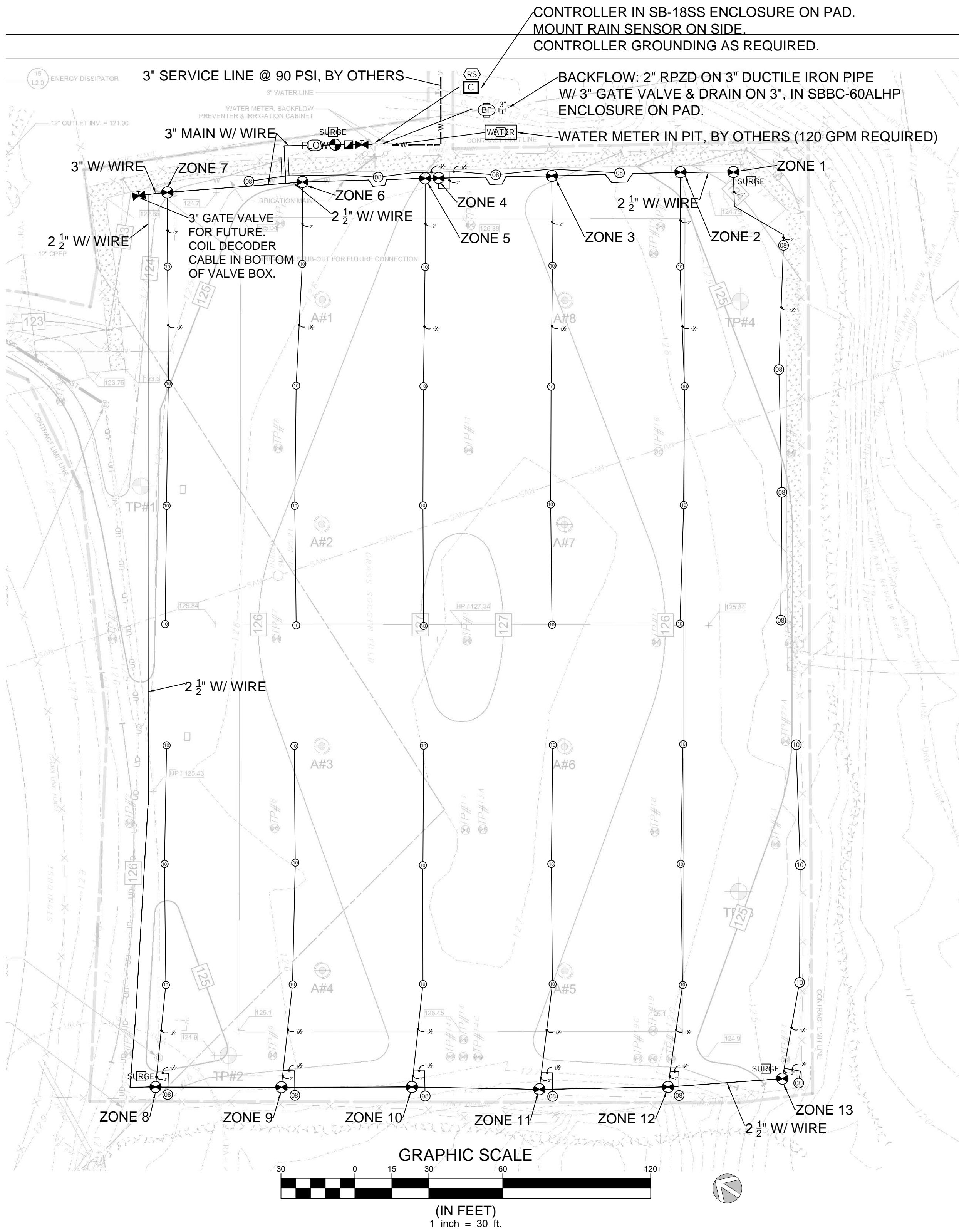
DATE	REVISION

DATE: 01/17/2023
SCALE: 1"=20'-0"
DRAWN BY: DHH
CHECKED BY: TJL

SITE EROSION & SEDIMENTATION CONTROL PLAN

L1.4

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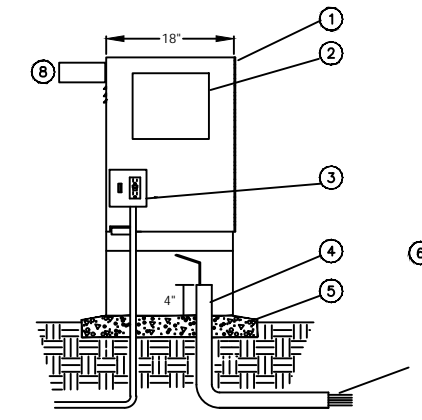
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
⊗	Hunter I-25-04-SS 08	14
⊙	Hunter I-25-04-SS 10	38
SYMBOL	MANUFACTURER/MODEL	QTY
⊗	Master Valve: Hunter ICV-201G 2" w/ EZ-1 Decoder	1
⊙	Zone Valve: Hunter ICV-151 1 1/2" w/ Gate Valve & EZ-1 Decoder	13
⊗	Quick Coupler: Hunter HQ-44RC w/ key 1"	1
⊙	Isolation Valve: Line Sized	2
⊗	Backflow: Febco 825Y 2"	1
⊙	Controller: Hunter IZC800PL w/ EZ-DM 2 Wire Module (grounding as required, locate in SB-18SS Enclosure)	1
⊗	Surge Decoder & Grounding: Hunter DUALS w/ 8' ground rod, ground clamp, 15' #6 copper	4
⊙	Flow Sensor: Hunter HC-200-FLOW 2" in Valve Box	1
⊗	Water Meter, by others	1
⊙	Rain Sensor: Hunter Rainclik (wires & connectors as needed)	1
⊗	Point of Connection: 120 gpm, 3" Ductile iron pipe @ 90 10 100 psi required	1
—	Laterals: Class 200 1 1/2" Sw Pvc Pipe	2100'
—	Laterals: Class 200 2" Sw Pvc Pipe	300'
—	Mainline: Class 200 3" Sw Pvc Pipe w/ #1/2" Uf Wire (thrust block with concrete & rebar as needed)	Main: 140' 1/2" 1000'
—	Mainline: Class 200 2 1/2" Sw Pvc Pipe w/ #1/2" Uf Wire	Main: 900'
—	Pipe Sleeve: Schedule 40 6" Pvc Pipe	10'

IRRIGATION NOTES

- ALL WORK IS TO BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND ORDINANCES.
- ALL REMOTE CONTROL VALVES ARE TO BE INSTALLED IN VALVE BOXES AS NEEDED.
- ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE #12 UF DECODER CABLE. INSTALL SURGE DECODER & GROUNDING AS NEEDED. USE DBY-6 CONNECTORS WHERE NEEDED. CONTROLLER GROUNDING AS RECOMMENDED BY THE MANUFACTURER.
- FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- SYSTEM IS DESIGNED FOR UP TO 55 GPM PER ZONE & 120 GPM FROM THE WATER SUPPLY. PRESSURE AT THE INLET TO THE NEW 2" BACKFLOW SHALL BE 90 TO 100 PSI MINIMUM.
- ANY CHANGES IN AVAILABILITY OF SUPPLY SHOULD BE NOTED AND MODIFICATIONS TO THE DESIGN SHOULD BE MADE.
- CONTRACTOR TO VERIFY WATER PRESSURE AND AVAILABILITY PRIOR TO INSTALLATION. PROVIDE A PROPERLY SIZED BOOSTER PUMP (WITH REQUIRED ELECTRICAL & PLUMBING) IN THE EVENT THE PRESSURE IS NOT ADEQUATE ENOUGH FOR THIS SYSTEM.
- THE LOCATION OF ALL IRRIGATION IS DIAGRAMMATIC AND SUBJECT TO FIELD VERIFICATION. IRRIGATION PIPING SHOWN OUTSIDE OF CURBS FOR CLARITY ONLY.
- WATER: NEW 3" @ 90 TO 100 PSI, BY OTHERS. PLUMBING TO INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: 3" DUCTILE IRON PIPE (OR WHICHEVER PIPE THE ENGINEER SELECTS), 3" GATE VALVE IN ACCESS BOX, DRAIN ON THE 3" AS NEEDED, FITTINGS.
- WATER METER: BY OTHERS. (SHOWN ON IRRIGATION FOR LOCATION PURPOSES).
- BACKFLOW: 2" RPZD ON 3" COPPER OR DUCTILE IRON PIPE IN SBBC-60ALHP ENCLOSURE ON CONCRETE PAD W/ ACCESS CONDUIT. REQUIRED PLUMBING BY OTHERS. (2" RPZD CAN FLOW UP TO 140 GPM).
- POWER: 115 VAC DEDICATED OUTLET IN A STRONG BOX SB-18SS ENCLOSURE ON CONCRETE PAD W/ ACCESS CONDUIT, BY OTHERS. REQUIRED ELECTRICAL TO INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: 15 AMP BREAKER ON ELECTRICAL PANEL, PROPERLY SIZED POWER WIRE IN CONDUIT, GFCI OUTLET, CONNECTORS, CONDUIT.

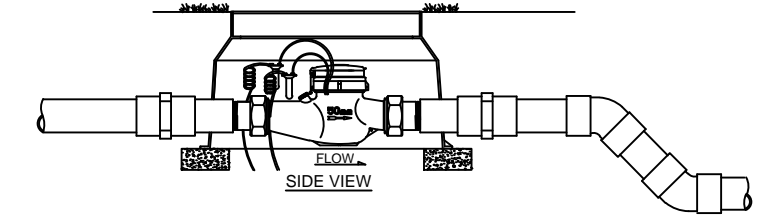
IRRIGATION DETAILS



- STRONGBOX ENCLOSURE.
- AUTOMATIC CONTROLLER.
- 120-VOLT SERVICE IN CONDUIT.
- 1 1/2" CONDUIT.
- CONCRETE BASE W/ ACCESS CONDUIT.
- WIRE.

CONTROLLER

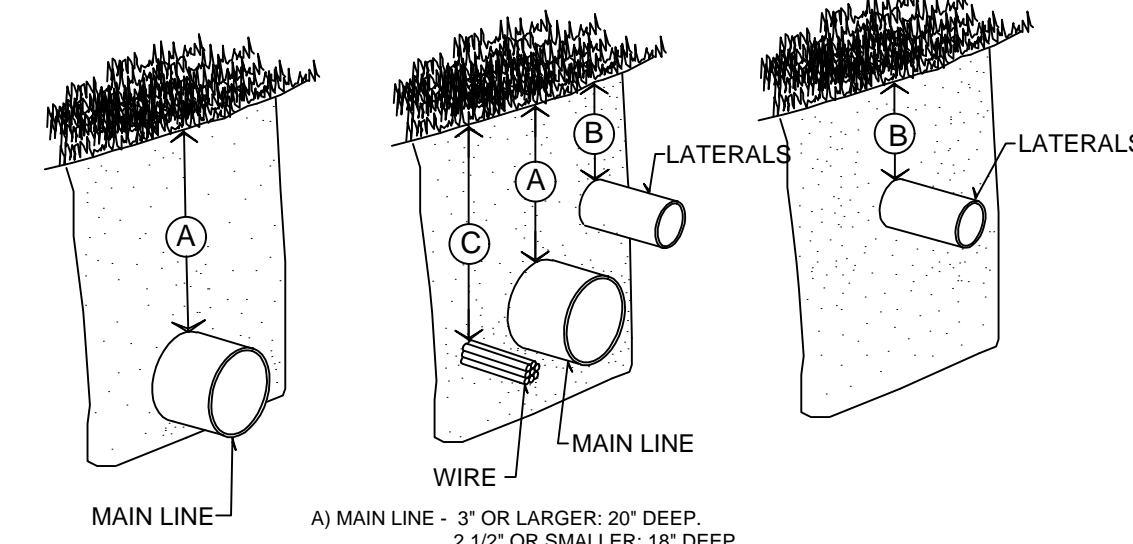
(ELEVATION - NOT TO SCALE)



- PIPE LENGTH MUST BE A MIN. OF 10 X PIPE DIA.
- OUTLET PIPE LEAVING METER. LENGTH MUST BE MIN. OF 5 X PIPE DIA.
- INLET AND OUTLET PIPE MUST BE STRAIGHT PIPE WITH NO FITTINGS OR TURNS UNTIL AFTER THESE SPECIFIED LENGTHS.
- PIPE & FITTINGS AS NEEDED.
- USE DBY WIRE SPICES.
- USE NDS PRO VALVE BOX WITH PEA GRAVEL SUMP. PLACE ON CONCRETE BRICKS.

FLOW METER

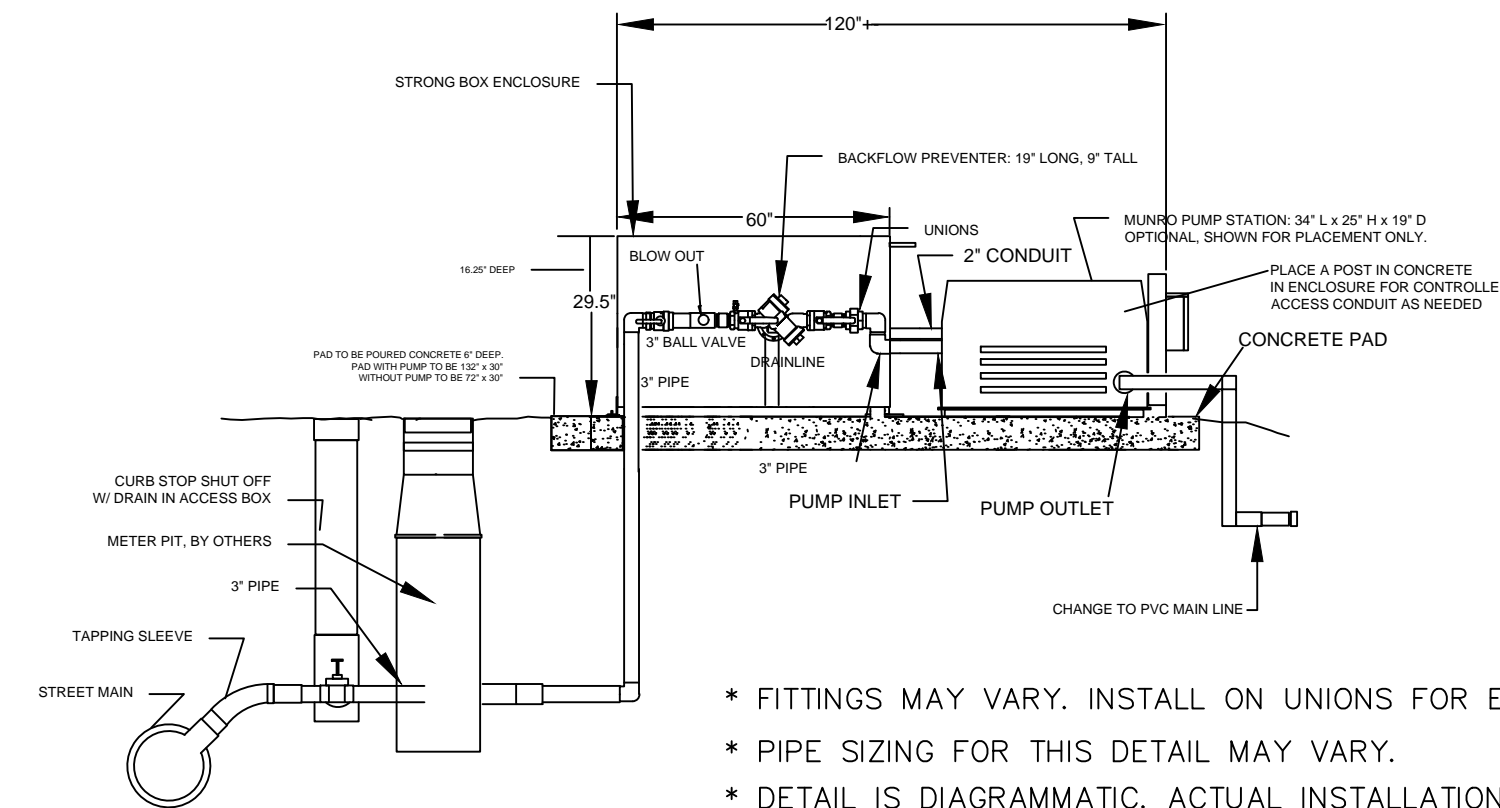
(ELEVATION - NOT TO SCALE)



- A) MAIN LINE - 3" OR LARGER: 20' DEEP. 2 1/2" OR SMALLER: 18" DEEP. TRENCH OR PULL WITH A VIBRATORY PLOW.
- B) LATERALS - 12" TO 15" DEEP. TRENCH OR PULL WITH A VIBRATORY PLOW.
- C) WIRE - TRENCH OR PULL WITH THE PVC MAIN. INSTALL IN CONDUIT IF NECESSARY. ADD 12" EXPANSION LOOP AT EVERY DIRECTION CHANGE AND EVERY 100'.
- PIPE RULE OF THUMB: DEPTH TO TOP OF PIPE TO BE 6 TIMES DIAMETER

PIPE & WIRE

(ELEVATION - NOT TO SCALE)

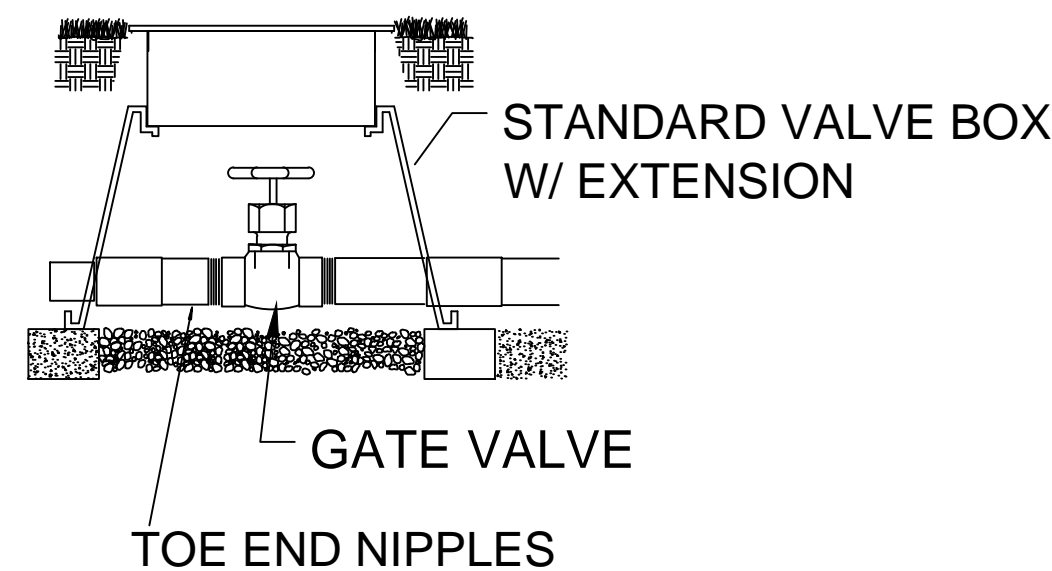


- * FITTINGS MAY VARY. INSTALL ON UNIONS FOR EASY REMOVAL.
- * PIPE SIZING FOR THIS DETAIL MAY VARY.
- * DETAIL IS DIAGRAMMATIC. ACTUAL INSTALLATION MAY VARY.
- * FOLLOW ALL MANUFACTURER'S DATA, LOCAL CODES, AND CHANGE AS NECESSARY FOR SITE CONDITIONS.
- * USE THIS DETAIL TO ACCOMMODATE MANY DIFFERENT SCENARIOS.

BACKFLOW & BOOSTER PUMP ASSEMBLY

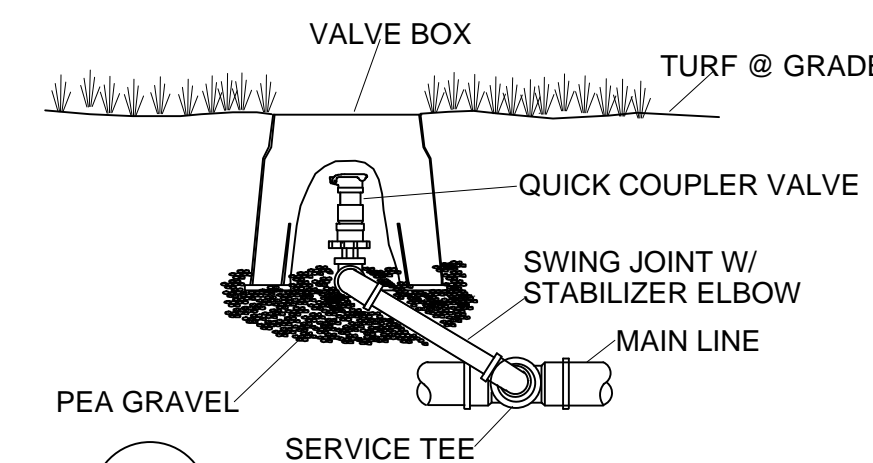
(not to scale)

IRRIGATION DETAILS



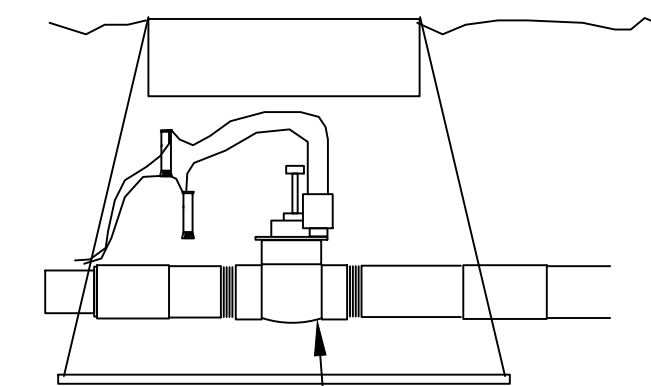
SHUT OFF

(not to scale)



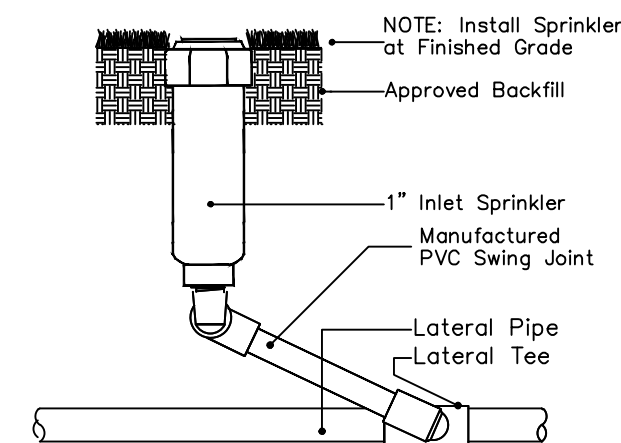
QUICK COUPLER

(NOT TO SCALE)



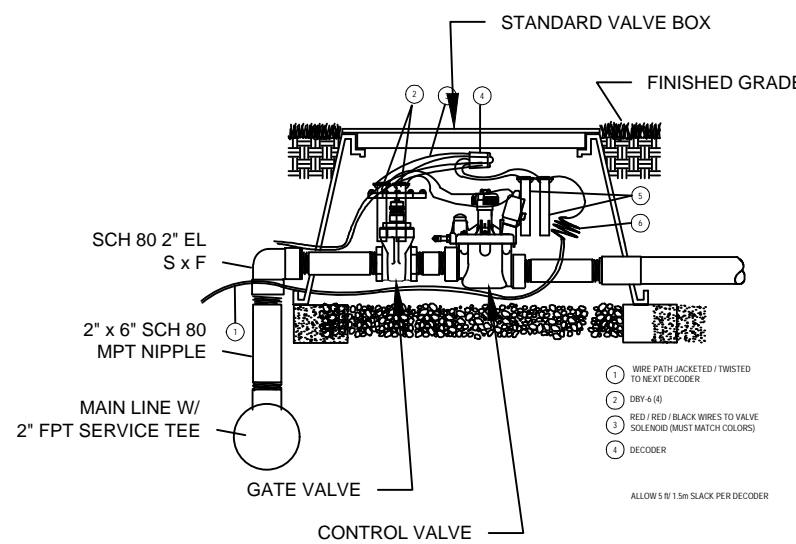
MASTER VALVE

(not to scale)



1" INLET SPRINKLER

(SIDE ELEVATION - NOT TO SCALE)



VALVE SET-UP

(SIDE ELEVATION - NOT TO SCALE)

BID #2023-12 SITE RENOVATIONS FOR
PERCIVAL SOCCER FIELD
20 HIGHLAND AVENUE
BERLIN, CONNECTICUT



DATE	REVISION

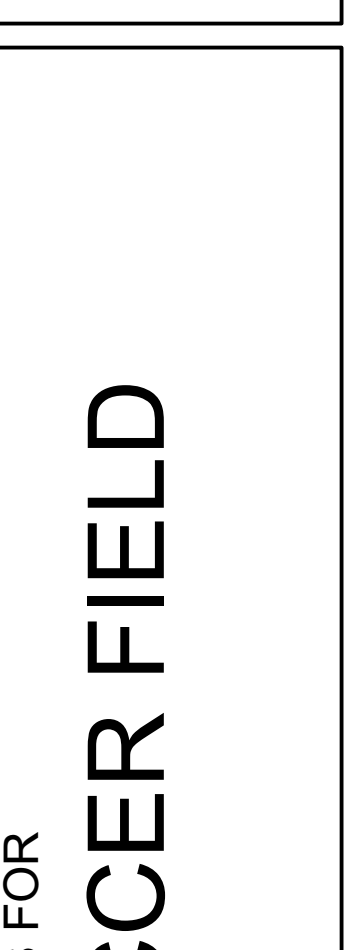
DATE: 01/17/2023
SCALE: AS NOTED
DRAWN BY:
CHECKED BY:

SITE IRRIGATION
PLAN & DETAILS

L1.5



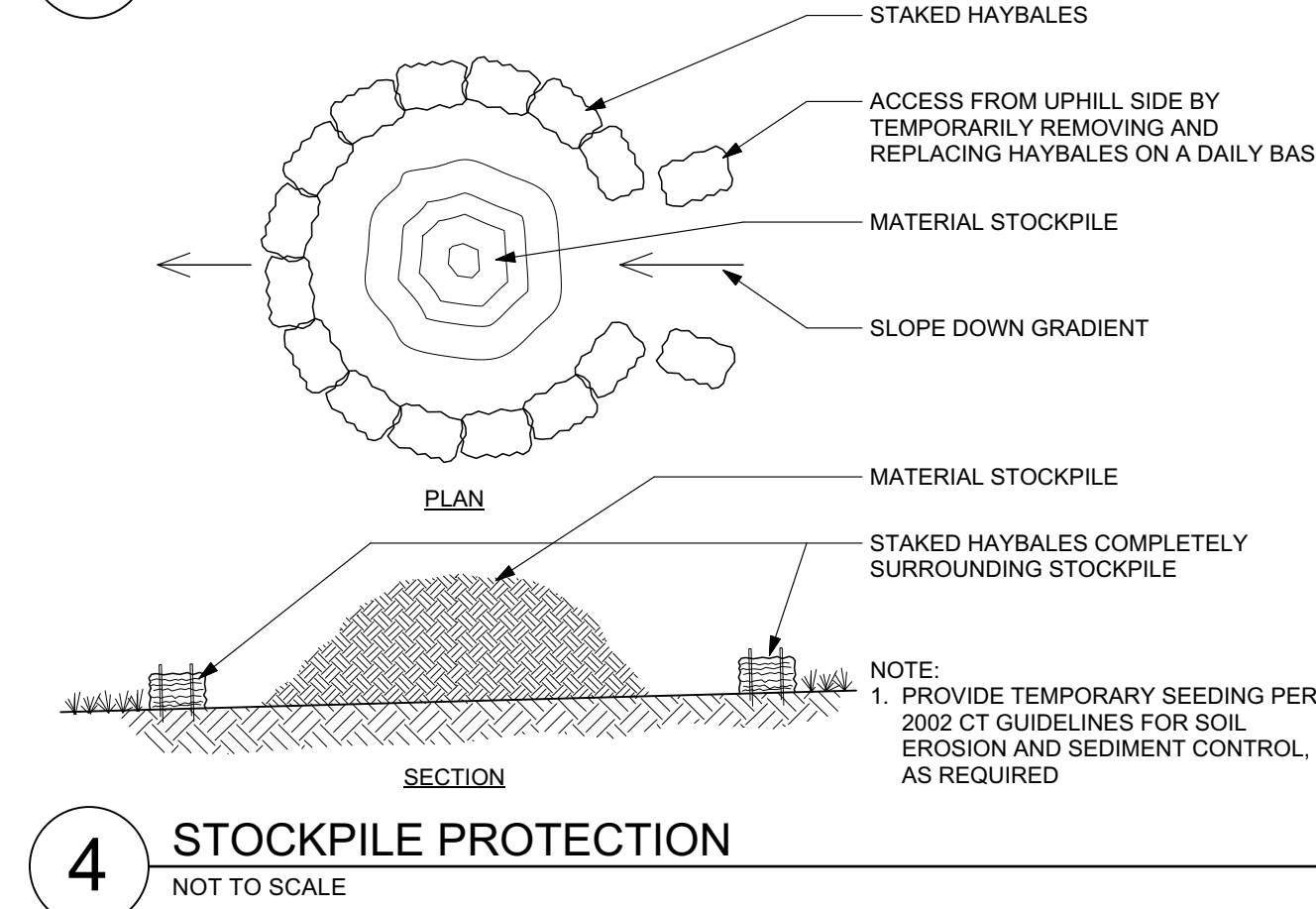
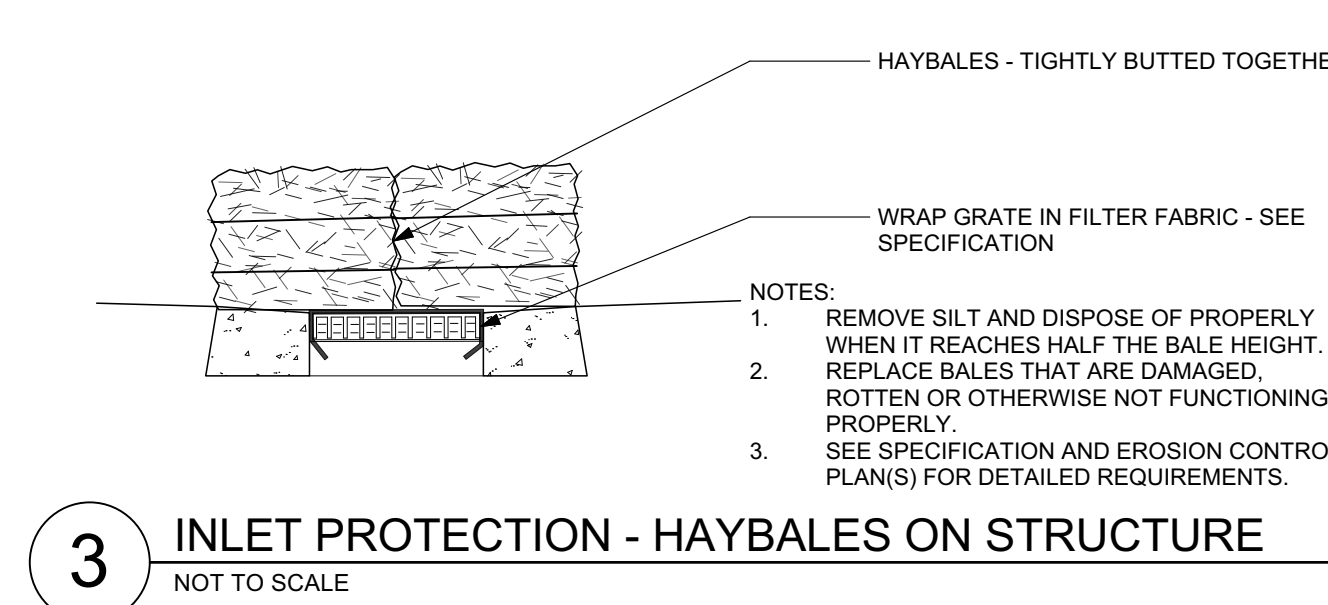
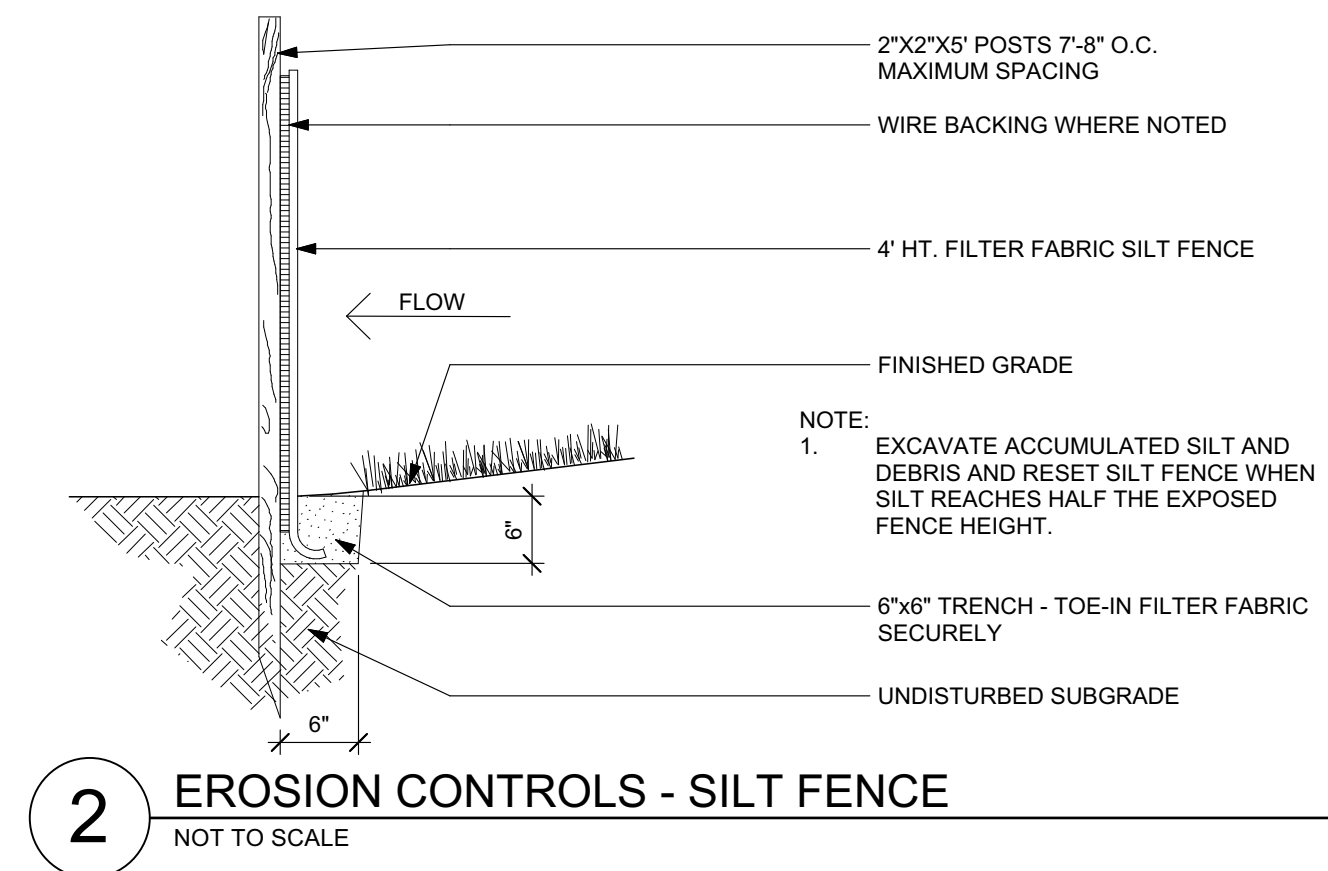
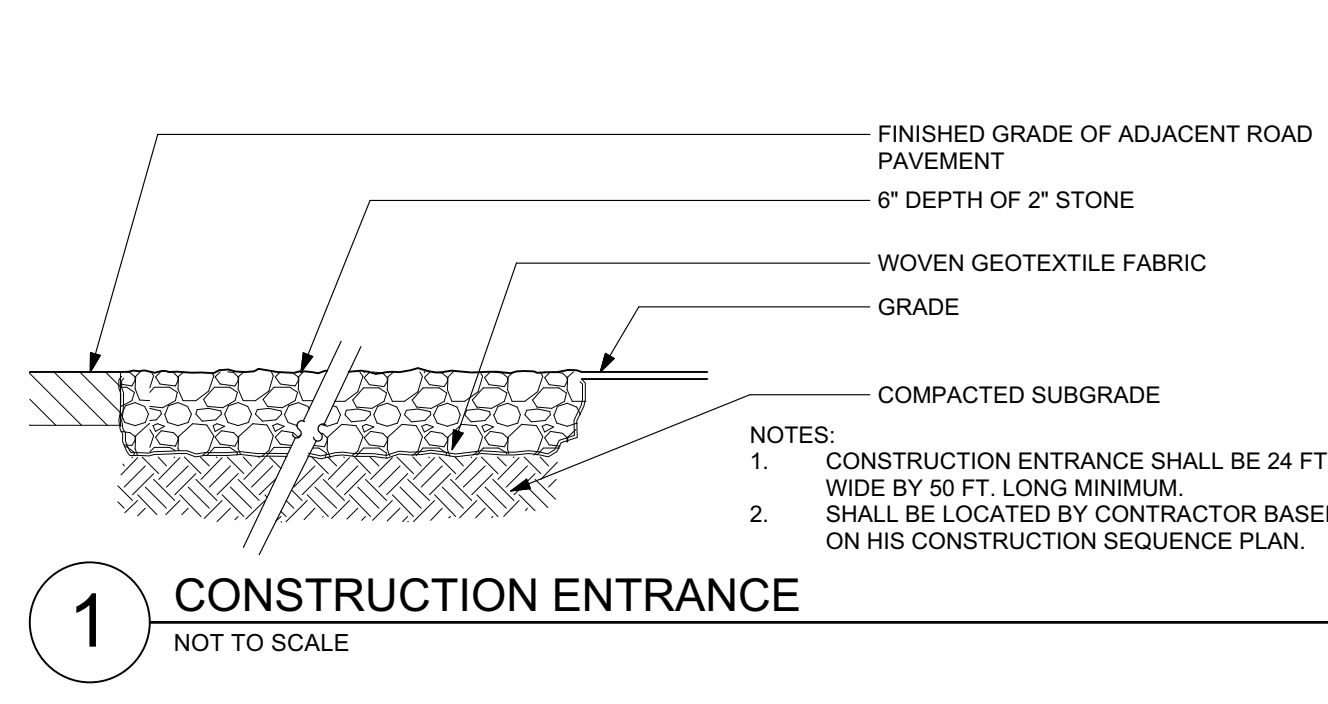
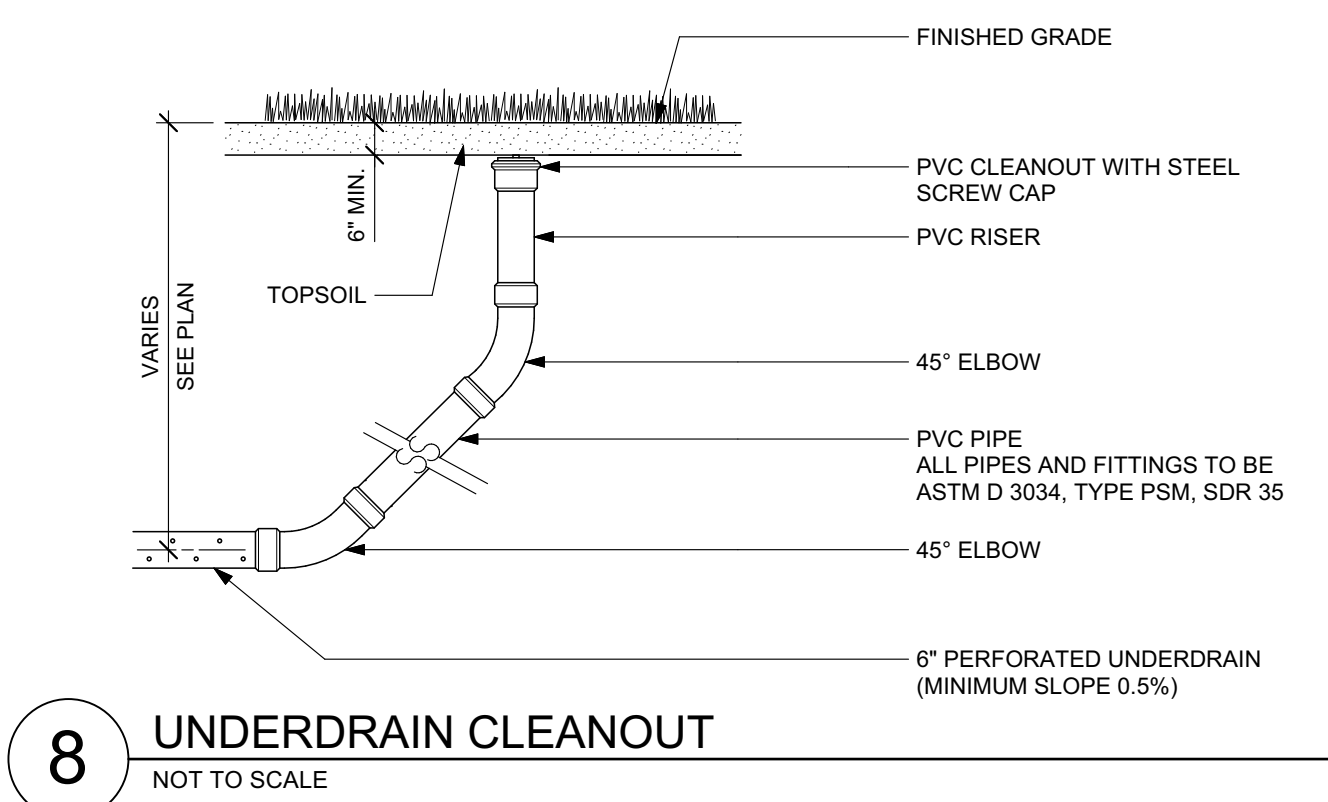
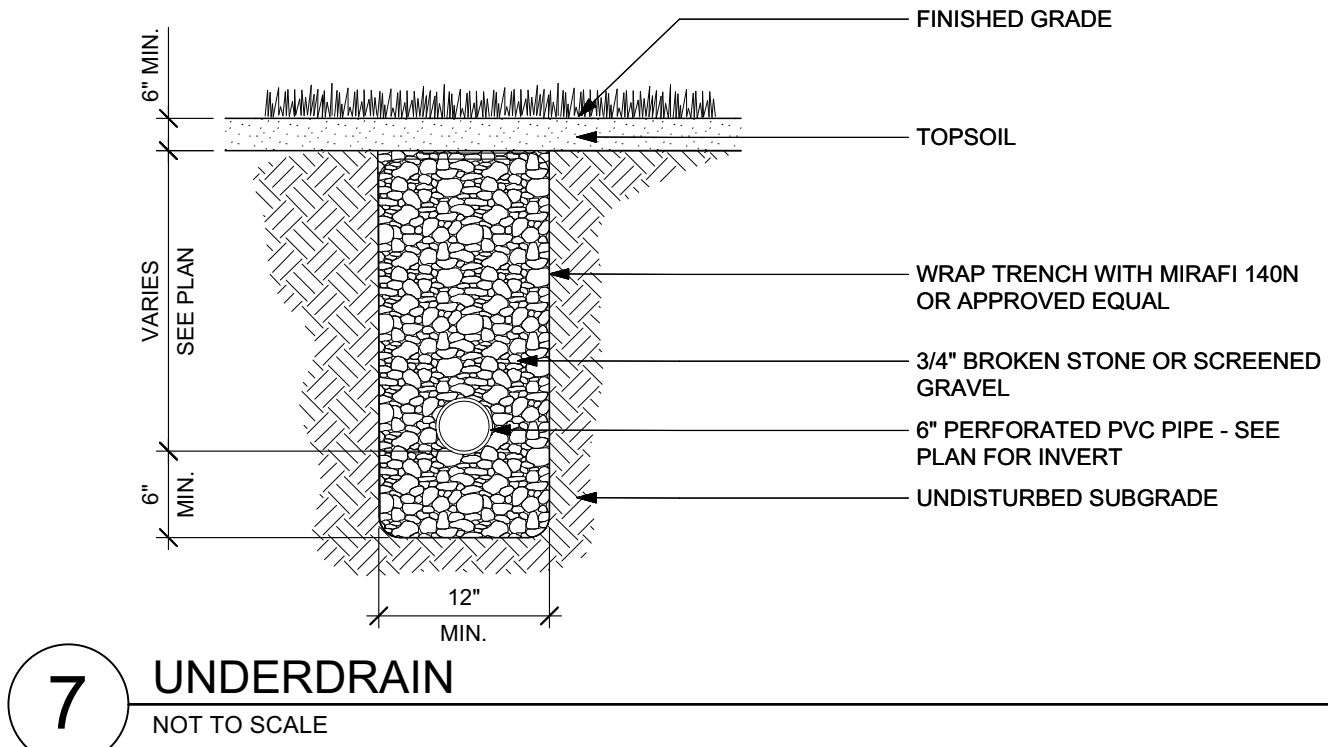
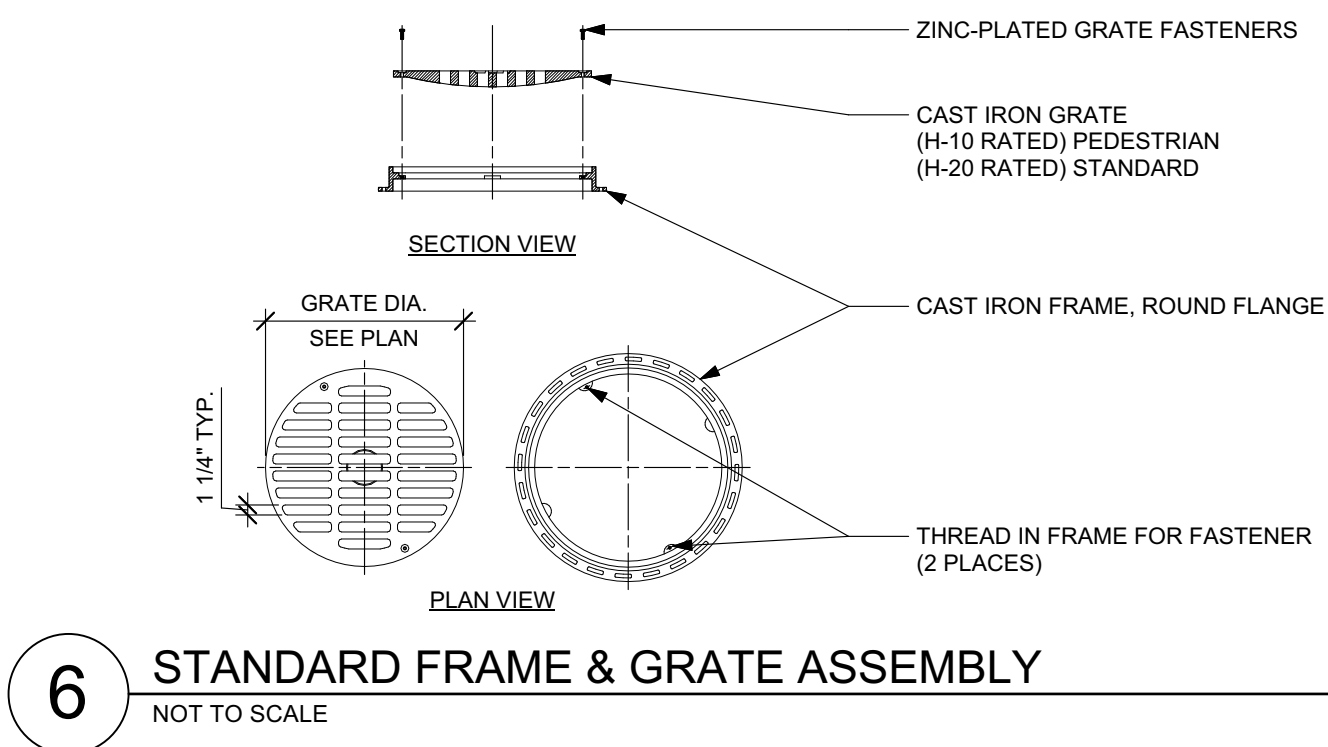
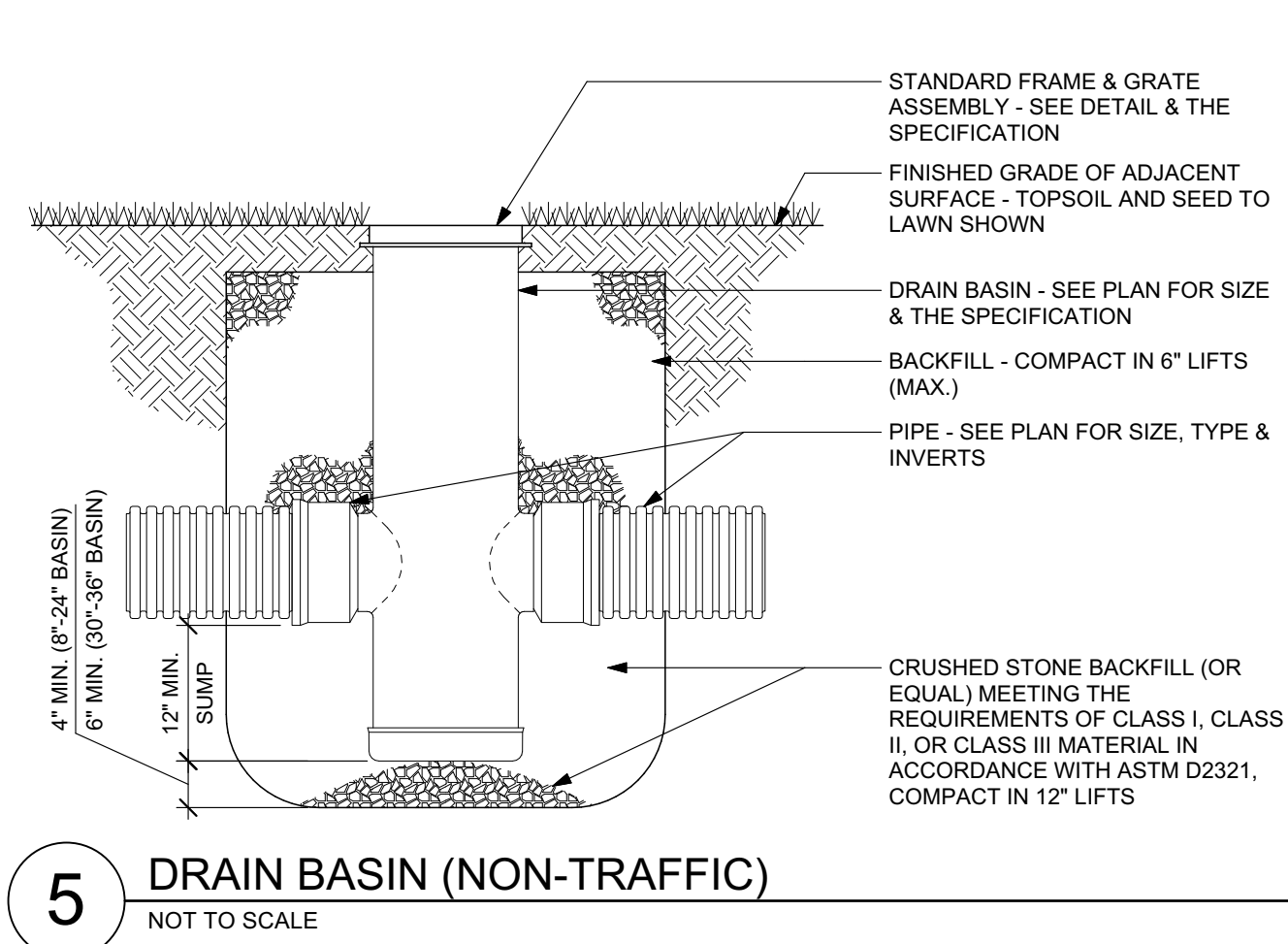
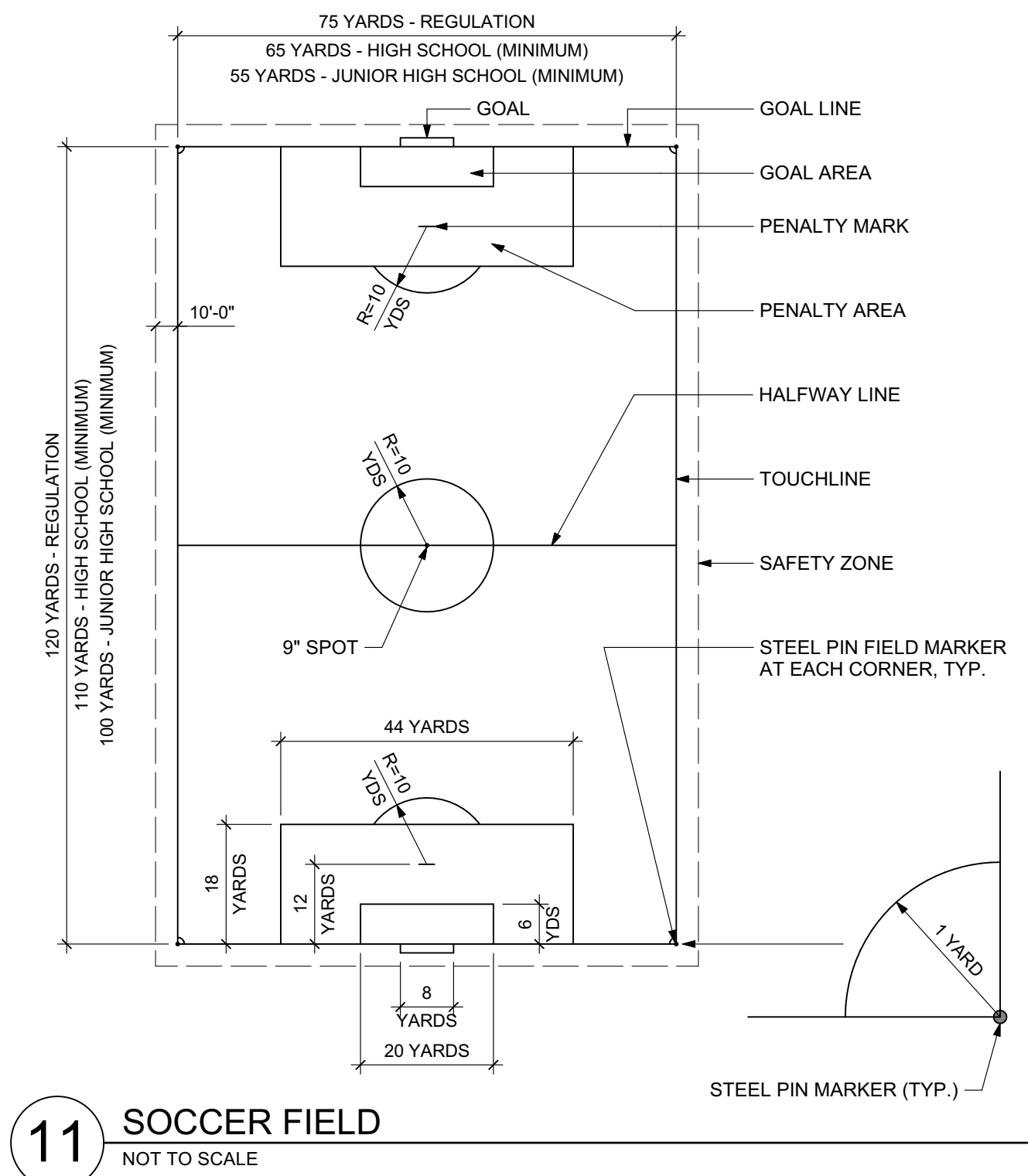
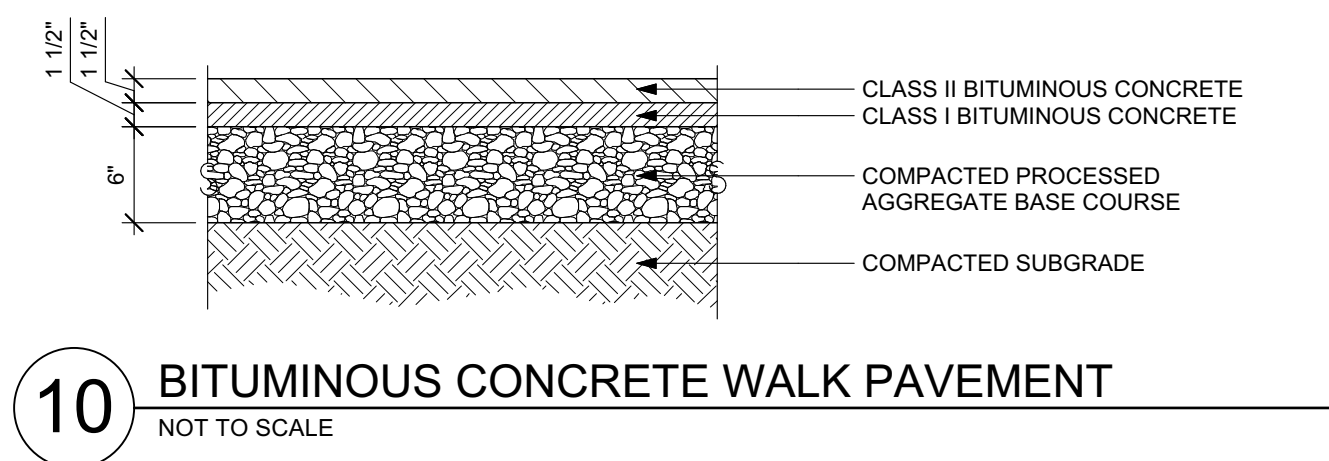
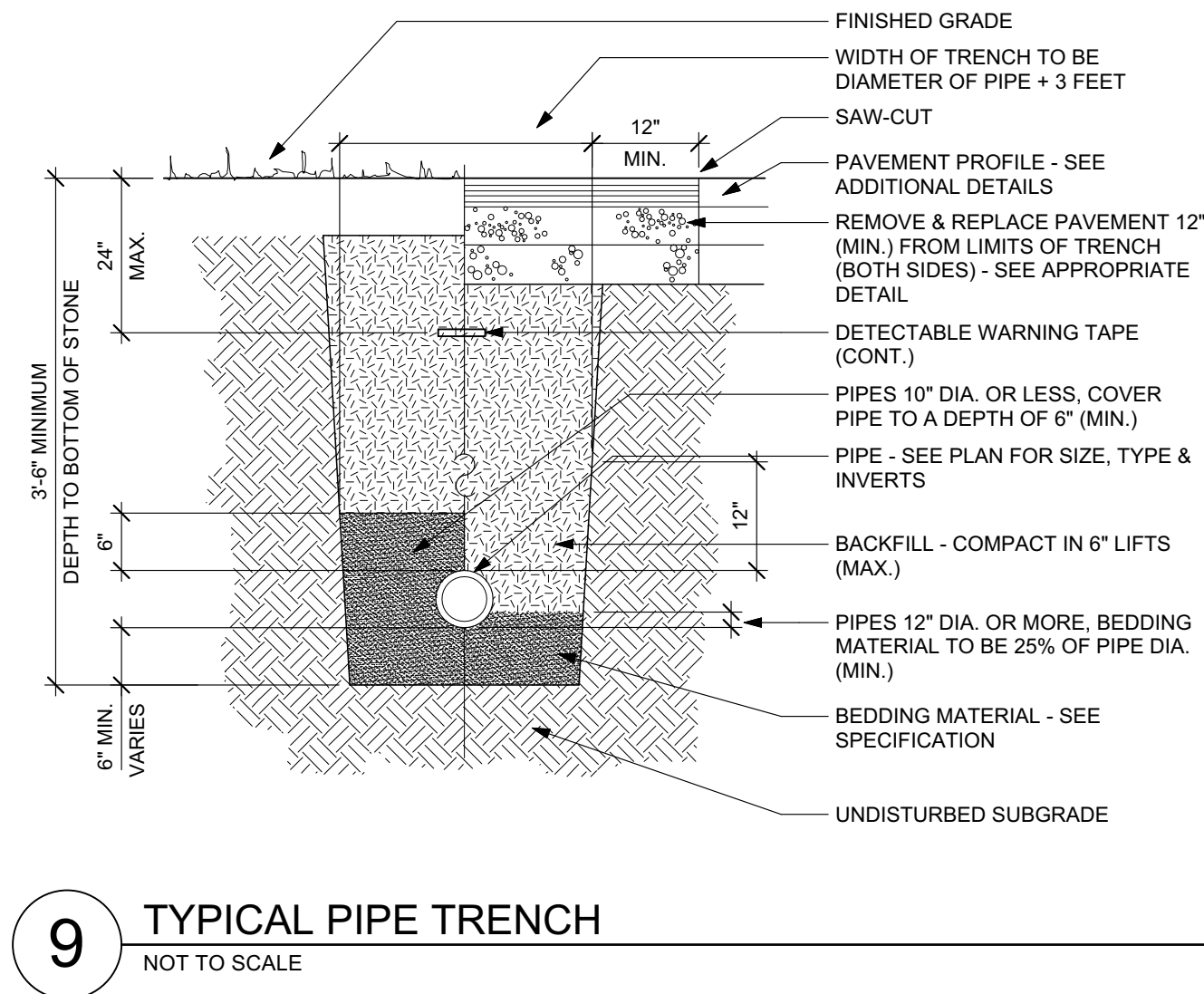
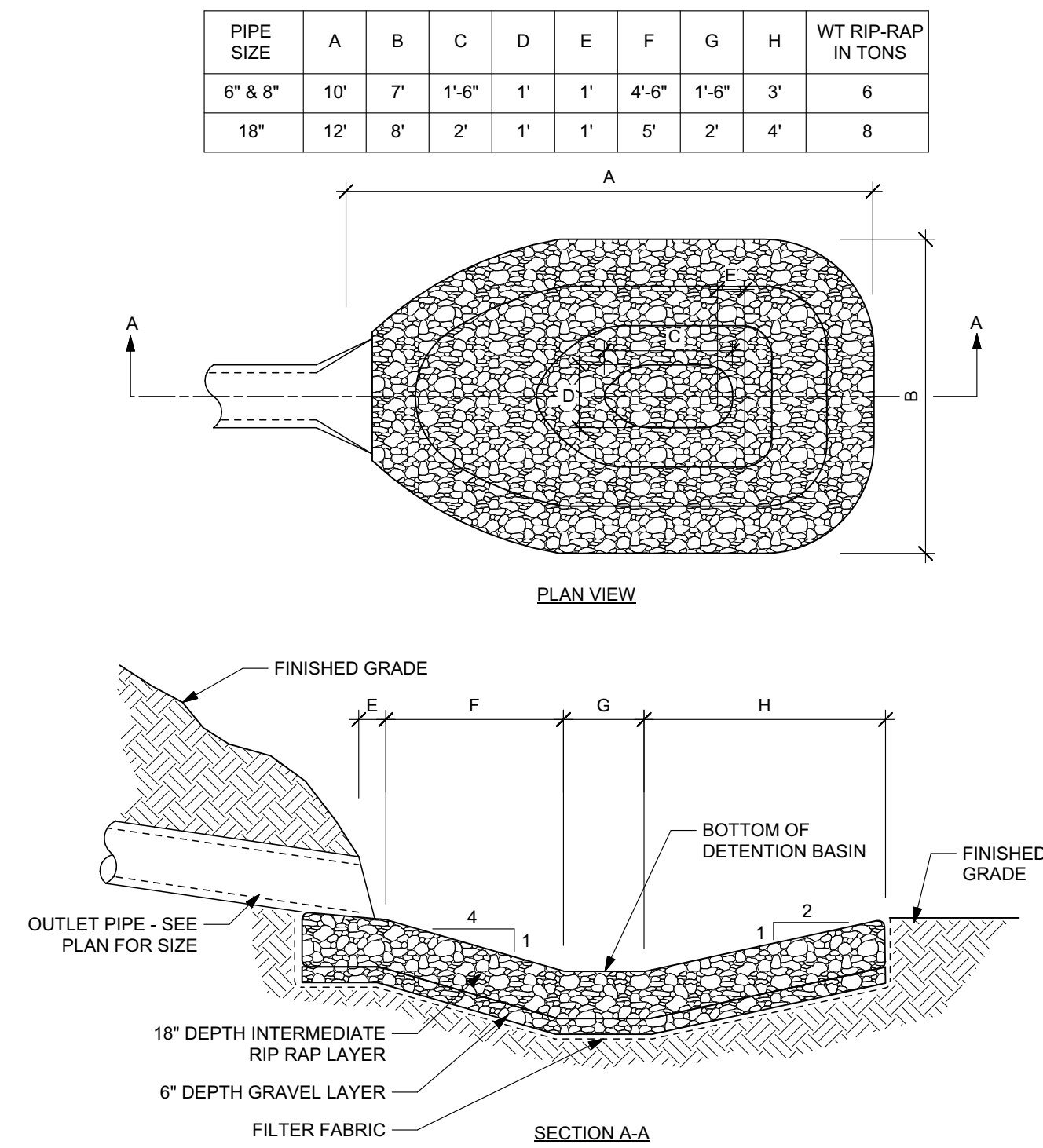
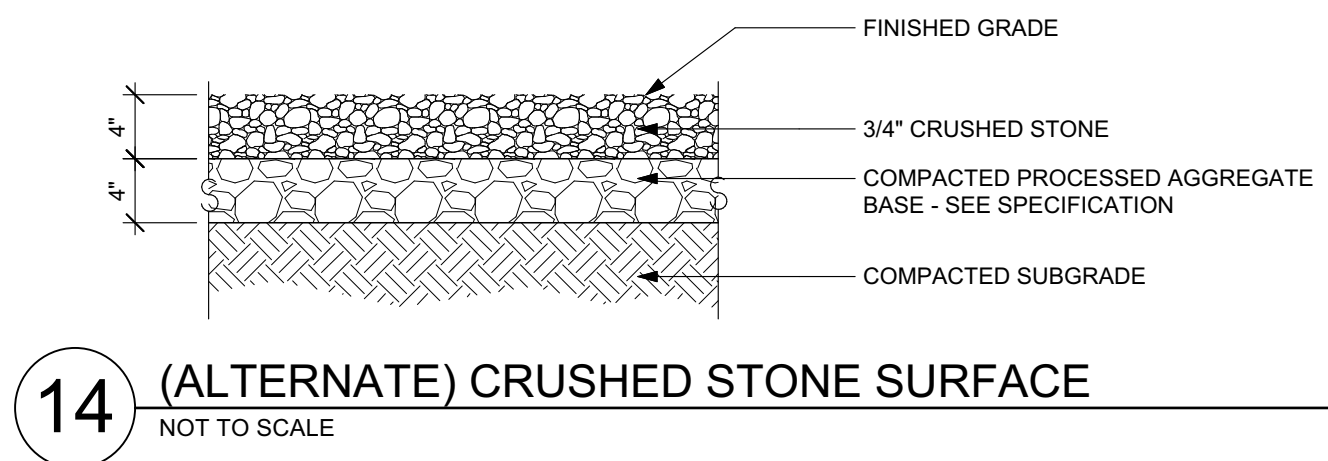
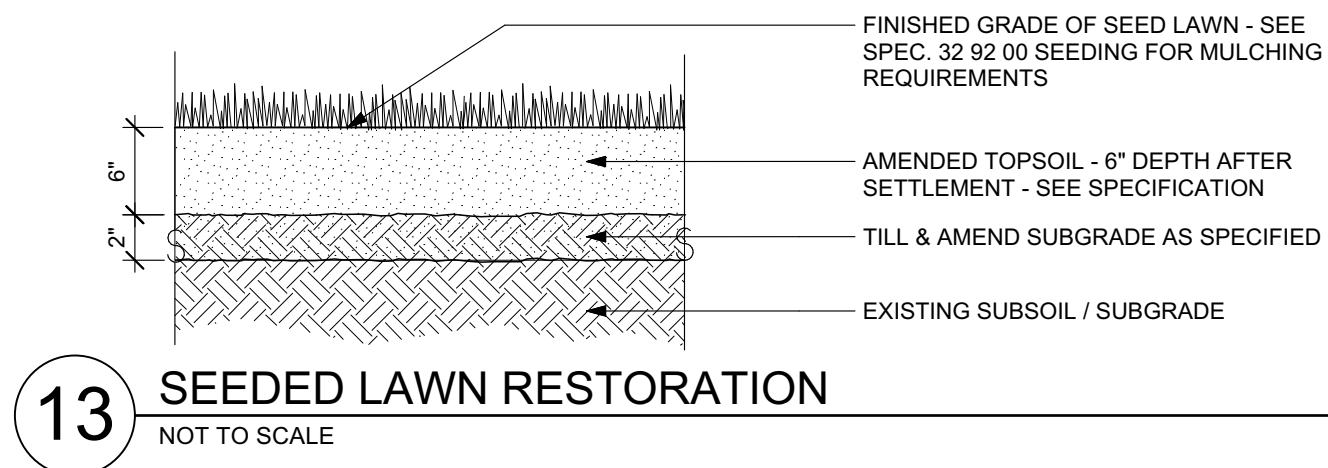
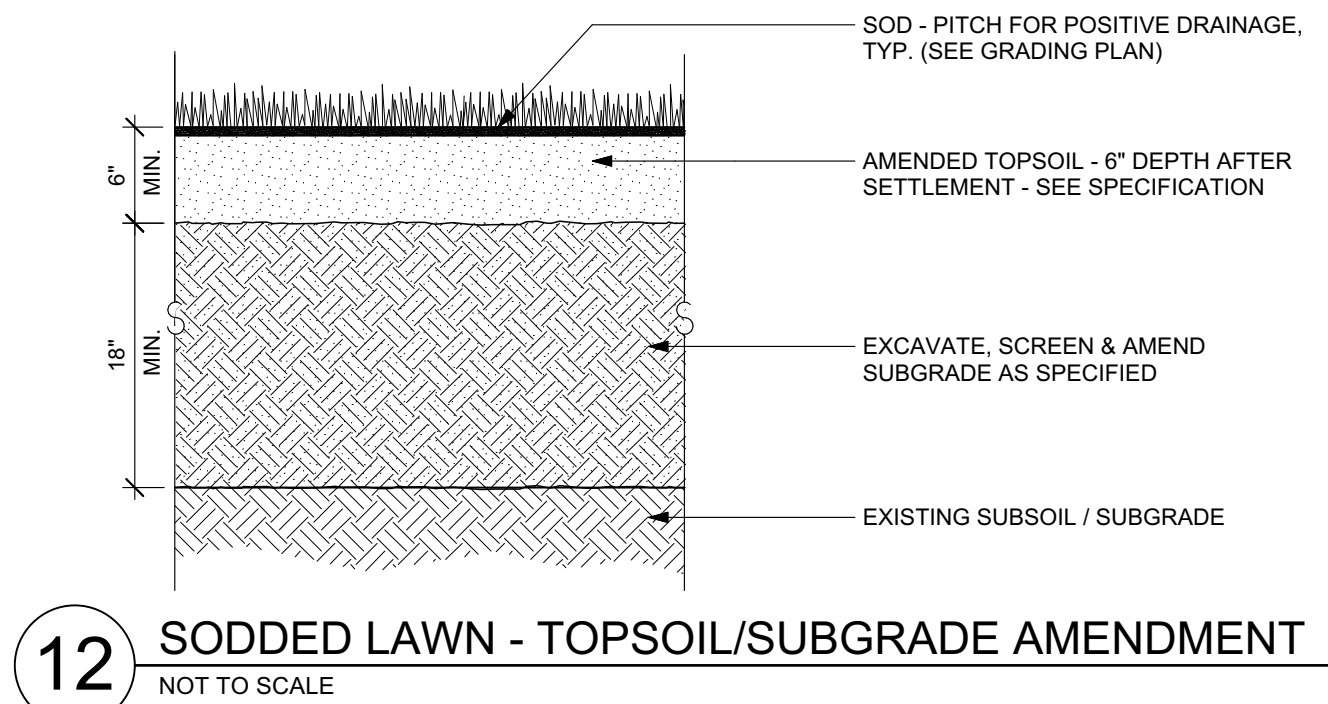
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860-899-9556
office@LindenLandscapeArchitects.com



1-800-347-4272
<http://www.projectsolutions.siteone.com>

IRRIGATION PLAN
Sheet Number: IR-1
Designed By: ebalon
Date: 1/6/2023
Drawing Scale: 1" = 30'-0"
Project Number: 310841

C:\Users\shell\OneDrive\LA\Projects\2210 Percival Field\2210 Percival Field_2023.vwx



DATE	REVISION

DATE: 01/17/2023
SCALE: AS NOTED
DRAWN BY: DHH
CHECKED BY: TJL

SITE DETAILS

L2.0