

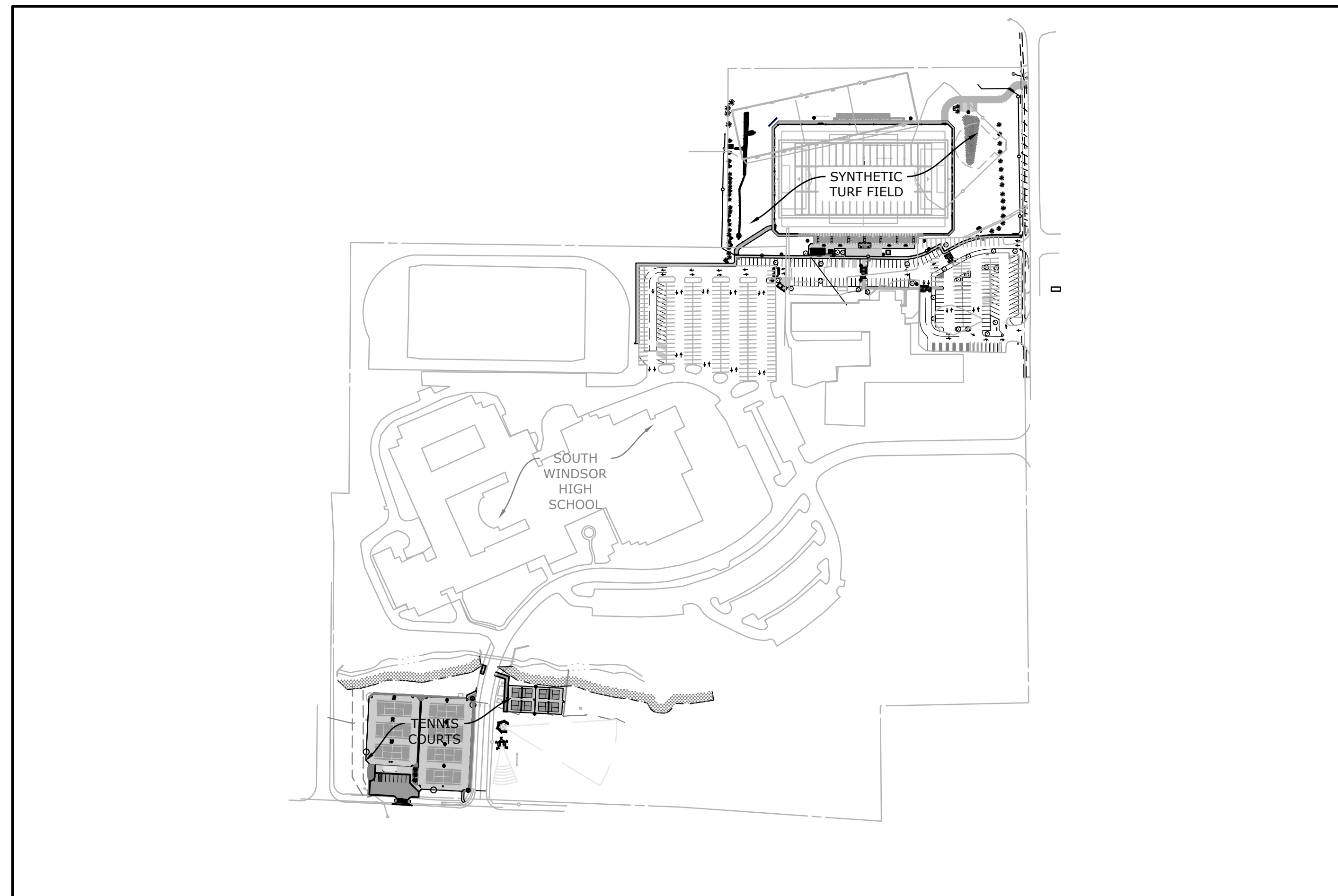
LOCATION MAP  
SCALE: 1"=1000'

# SOUTH WINDSOR HIGH SCHOOL SYNTHETIC TURF FIELD AND TENNIS COURT DEVELOPMENT

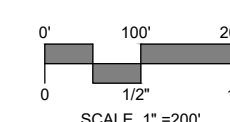
161 NEVERS ROAD  
SOUTH WINDSOR, CONNECTICUT

DECEMBER 15, 2023  
JANUARY 22, 2024  
MARCH 4, 2024

REVISED: APRIL 17, 2024



PROJECT VICINITY MAP:



MAP

## NOTES

1. ALL INFORMATION SHOWN IS BASED ON TOPOGRAPHIC AND PLANIMETRIC SURVEY CONDUCTED BY DIMARZO & BERECKZY, INC. AND INFORMATION SHOWN BEYOND THE LIMITS OF THIS MAP IS BASED ON AVAILABLE MAPPING AND SHOULD BE CONSIDERED APPROXIMATE.
2. CONSTRUCTION SHALL CONFORM TO TOWN OF SOUTH WINDSOR REQUIREMENTS.
3. ALL FINAL LOCATIONS OF INSTALLED MATERIALS ARE TO BE FIELD VERIFIED.
4. EXISTING UTILITY INFORMATION IS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE. ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE.
5. CALL "CALL BEFORE YOU DIG", SHALL BE NOTIFIED PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN PLAN INFORMATION AND MARKED UTILITIES SHALL BE DOCUMENTED AND BROUGHT TO THE ENGINEERS ATTENTION.
6. ALL DISTURBED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS. SITE IS TO BE PHOTO DOCUMENTED BY CONTRACTOR AND OWNER PRIOR TO CONSTRUCTION.
7. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE. FINISHED GRADE FOR SYNTHETIC TURF SHALL BE THE TOP OF THE INFILL.
8. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER AUTHORITY, AND STATE CODES.
9. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS USED DURING CONSTRUCTION SHOULD BE STORED IN A SECONDARY CONTAINER AND/OR REMOVED TO A LOCKED ENCLOSED AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
10. THE CONTRACTOR SHALL MAINTAIN SEDIMENTATION CONTROLS AND REPAIR AS NECESSARY UNTIL ALL CONSTRUCTION IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
11. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

## CONSTRUCTION SEQUENCE

1. SITE CONTRACTOR TO STAKE OUT LIMIT OF DISTURBANCE AND VEGETATION TO BE RETAINED. NO DISTURBANCE IS TO TAKE PLACE BEYOND THE LIMITS OF WORK SHOWN.
2. CONTRACTOR TO INSTALL SEDIMENT AND EROSION CONTROLS ALONG THE PERIMETER, AND STABILIZED CONSTRUCTION ENTRANCES.
3. INSTALL INLET PROTECTION IN ALL ADJACENT STORM DRAINAGE STRUCTURES.
4. INITIATE MASS EARTHWORK OPERATIONS AFTER ALL STRAW WATTLES ARE INSTALLED. CLEAR AND GRUB SITE AND STOCKPILE TOPSOIL AND OTHER EARTHEN MATERIALS. TRANSPORT MATERIALS TO LOCATION SPECIFIED BY OWNER.
5. INSTALL PERIMETER STORM DRAINAGE COLLECTOR PIPE AND PERIMETER FENCING
6. GRADE FIELD SUBGRADE AND INSTALL GEOTEXTILE FABRIC AND UNDERDRAINAGE.
7. INSTALL DYNAMIC DRAINAGE STONE.
8. INSTALL SYNTHETIC TURF.
9. TOPSOIL AND SEED ANY DISTURBED AREAS.
  - 9.1. AREAS TO BE SEEDED UPON INSTALLATION OF TOPSOIL. ADDITIONAL SEEDING MAY BE REQUIRED BETWEEN MONTHS OF APRIL/MAY AND/OR SEPTEMBER.
  - 9.2. GRASS SEED BLEND OF 30% RYEGRASS, 30% KENTUCKY BLUEGRASS, 30% TALL FESCUE AT A RATE OF 10 LBS. OF SEED PER 1,000 S.F.
10. REMOVE EROSION CONTROLS ONCE SITE IS STABILIZED.

NAME	TITLE
	TITLE SHEET
KEY	KEY MAP
EX	SITE PLAN - EXISTING CONDITIONS
LA 1-2	SITE PLAN - LAYOUT AND LANDSCAPING
GR 1-2	SITE PLAN - GRADING AND UTILITIES
D-1 - D-4	SITE DETAILS
LPTS	LIMITED PROPERTY & TOPOGRAPHIC SURVEY (UNDER SEPARATE COVER)

## PREPARED BY:



CEH ENGINEERING AND CONSULTING  
580 SHEPARD AVENUE  
HAMDEN, CT 06514  
chris.hulk@yahoo.com, 203-676-4445

## GENERAL CONTRACTOR:



903 N OPDYKE ROAD SUITE A1  
AUBURN HILLS, MI 482326  
248-977-4388

## OWNER:

TOWN OF SOUTH WINDSOR  
1540 SULLIVAN AVENUE  
SOUTH WINDSOR, CONNECTICUT 06074

## APPLICANT

SOUTH WINDSOR PUBLIC SCHOOLS  
1737 MAIN STREET  
SOUTH WINDSOR, CONNECTICUT 06074



Know what's below.  
Call before you dig.  
www.cbyd.com



EXISTING CONDITIONS LEGEND

PROPERTY LINE	
TREE LINE	
CHAIN LINK FENCE	
EXISTING CONTOUR	
WATER LINE	
GAS LINE	
SEWER LINE	
UTILITY POLE	
TEST PIT	

EXISTING CONDITIONS NOTES

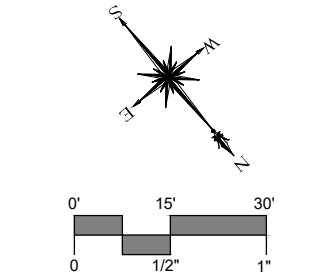
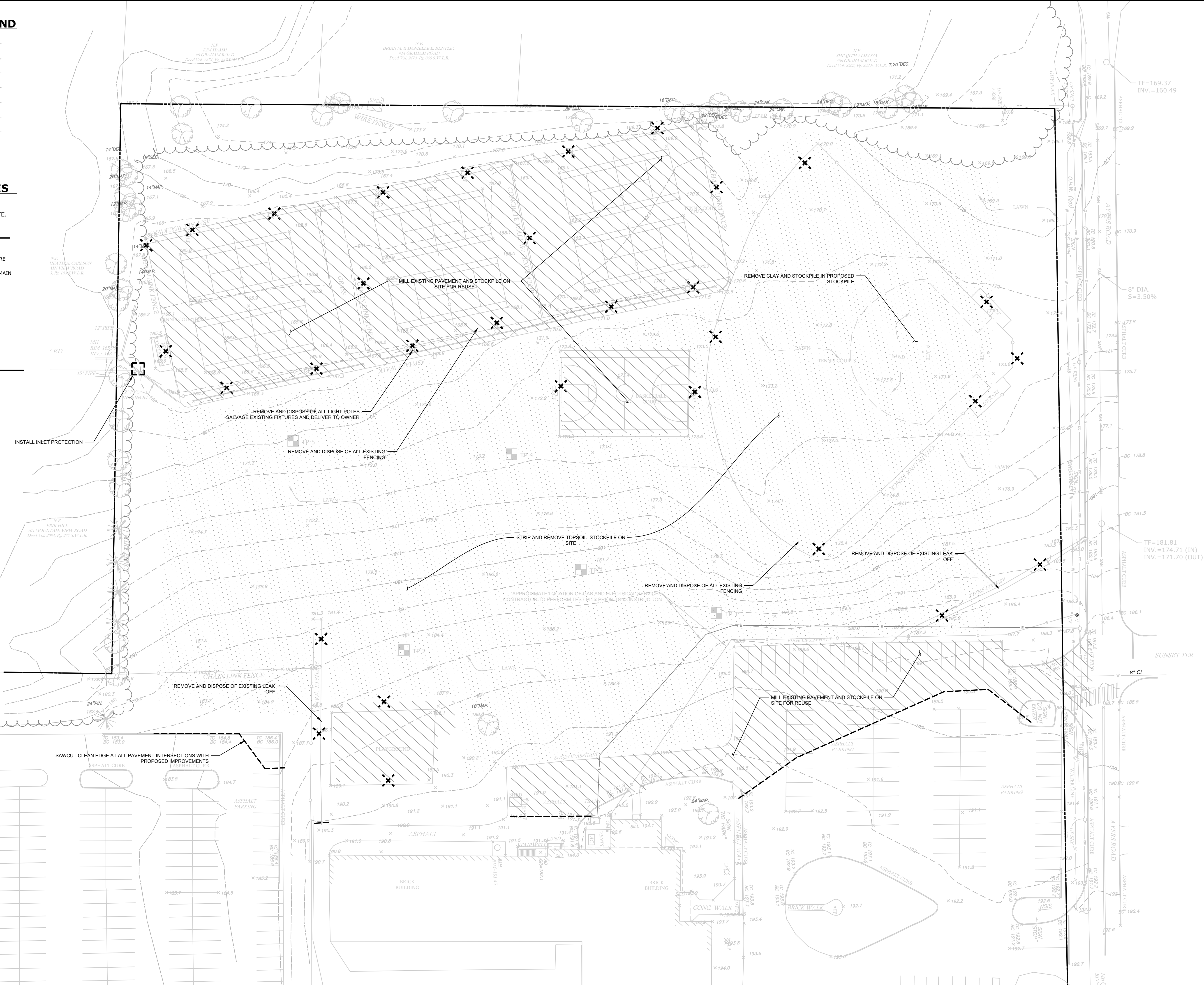
1. ALL INFORMATION SHOWN IS BASED ON AVAILABLE MAPPING AND SHOULD BE CONSIDERED APPROXIMATE.

REMOVALS LEGEND

	REMOVE AND DISPOSE OF SITE FEATURE
	ALTER EXISTING SITE FEATURE TO REMAIN
	STRIP TOPSOIL TO REMAIN ONSITE
	MILL EXISTING PAVEMENT AND STOCKPILE TO REUSE AS BASE MATERIAL ON SITE

NOTES:

ALL TOPSOIL TO BE REMAIN ON SITE.



CEH ENGINEERING  
AND CONSULTING  
580 SHEPARD AVENUE  
HAMDEN, CT 06514



DESCRIPTION	DATE	BY
INWC SUBMISSION	12/29/2023	CEH
P2C SUBMISSION	1/22/2024	CEH

SITE PLAN - EXISTING CONDITIONS AND REMOVALS  
PROPOSED SYNTHETIC TURF FIELD AND TENNIS COURT DEVELOPMENT  
SOUTH WINDSOR HIGH SCHOOL  
AYERS ROAD AND NEVERS ROAD  
SOUTH WINDSOR, CONNECTICUT

CEH	JDH
DESIGNED	DRAWN
1"=30'	
DECEMBER 15, 2023	
DATE	

EX-1

SHEET



EXISTING CONDITIONS LEGEND

PROPERTY LINE	
TREE LINE	
CHAIN LINK FENCE	
EXISTING CONTOUR	
WATER LINE	
GAS LINE	
SEWER LINE	
UTILITY POLE	
TEST PIT	

EXISTING CONDITIONS NOTES

1. ALL INFORMATION SHOWN IS BASED ON AVAILABLE MAPPING AND SHOULD BE CONSIDERED APPROXIMATE.

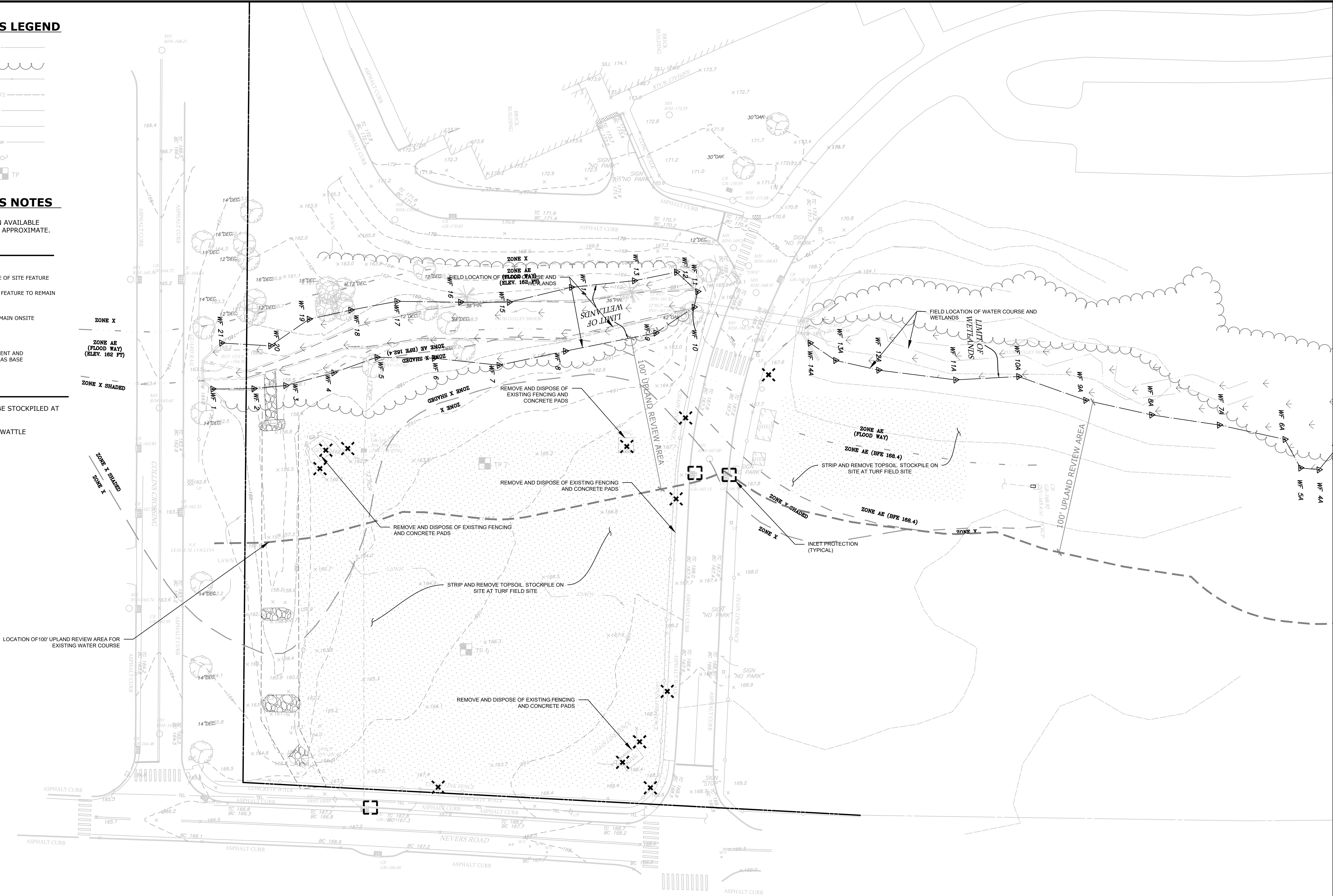
REMOVALS LEGEND

	REMOVE AND DISPOSE OF SITE FEATURE
	ALTER EXISTING SITE FEATURE TO REMAIN
	STRIP TOPSOIL TO REMAIN ONSITE
	MILL EXISTING PAVEMENT AND STOCKPILE TO REUSE AS BASE MATERIAL ON SITE

NOTES:

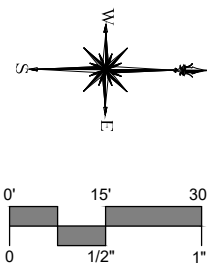
ALL TOPSOIL TO BE REMAIN ON SITE AND BE STOCKPILED AT TURF FIELD SITE.

SEE SITE PLANS FOR LOCATION OF STRAW WATTLE INSTALLATION



NOTES:

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CEH ENGINEERING  
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580 SHEPARD AVENUE  
HAMDEN, CT 06514



DESCRIPTION	DATE	BY
INWC SUBMISSION	12/29/2023	CEH
REVISIONS		
P2C SUBMISSION	1/22/2024	CEH

SITE PLAN - EXISTING CONDITIONS AND REMOVALS  
PROPOSED SYNTHETIC TURF FIELD AND TENNIS COURT DEVELOPMENT  
SOUTH WINDSOR HIGH SCHOOL  
AYERS ROAD AND NEVERS ROAD  
SOUTH WINDSOR, CONNECTICUT

CEH DESIGNED	JDH DRAWN
SCALE 1"=30'	
DATE DECEMBER 15, 2023	

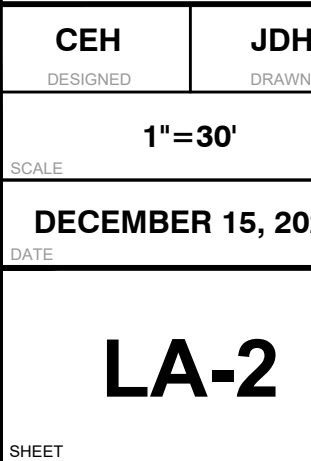
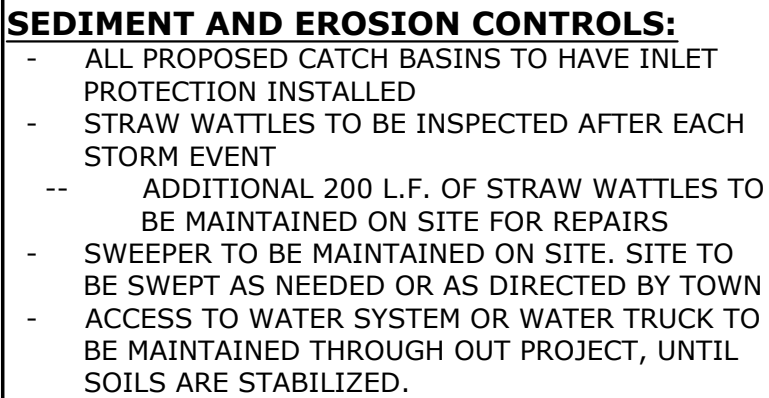
EX-2

SHEET











SITE PLAN LEGEND

- CHAIN LINK FENCE  
STORM PIPE  
WALL  
PROPOSED CONTOUR  
SYNTHETIC TURF FIELD  
ASPHALT  
CONCRETE  
STONE PATHWAY  
PROPOSED TREES  
ATHLETIC FIELD LIGHT POLE  
PARKING LOT LIGHT POLE  
SPOT GRADE

PRIOR TO CONSTRUCTION, CONTRACTOR TO COORDINATE REPLACEMENT OF EXISTING PIPING/STORM DRAINAGE SYSTEM WITHIN MOUNTAIN VIEW ROAD.

REMOVE AND REPLACE EXISTING MANHOLE  
T.F.=166.0  
INV.=163.5

30' - 15" HDPE  
S=1.0%

FES (OUTLET CONTROL STRUCTURE) WITH TRASH RACK  
INV.=163.7

INFILTRATION BASIN WITH STONE  
LINED BOTTOM

OUTLET WALL UNDER DRAIN TO DAYLIGHT

GRASSED SWALE WITH STONE INFILTRATION TRENCH

FLARED END SECTION WITH  
RIP RAP SPLASH PAD  
INV.=179.8

35' - 15" HDPE  
S=1.00% MIN.

CLCB  
T.G.=183.0  
INV.=181.0

N3°53'37"E  
815.34'

280' - 12" HDPE  
S=1.00% MIN.

WATER FOUNTAIN WITH JUG FILLER

FINAL LOCATION FOR WATER SERVICE TO BE  
COORDINATED WITH SCHOOL FACILITIES

RAISED CROSSWALK

TRANSITION FROM  
PERFORATED PIPE TO SOLID  
INV.=±169.9

TURF BOX FOR ELECTRICAL

BEING PERFORATED COLLECTOR PIPE  
- MAINTAIN 1" COVER MIN.  
INV.=171.8

TURF BOX FOR ELECTRICAL

NEW ELECTRICAL SERVICE TRANSFORMER  
WITH FENCED ENCLOSURE

CLCB -  
DRYWELL  
T.G.=189.2  
INV.=188.2

CLCB  
T.G.=189.5  
INV.=188.5

PROVIDE POWER FOR FUTURE EV CHARGERS  
FINAL LOCATION TO BE FIELD VARIFIED

STONE INFILTRATION TRENCH  
BOTTOM OF TRENCH=169.0

8" DIA.  
S=3.500%

TOPSOIL FILL BERM WITH  
SCREENING TREES  
(TYPICAL OF 9)

GRASS SWALE SLOPED  
TO INFILTRATION TRENCH

FES OUTLET WITH RIPRAP  
SPLASH PAD  
INV.=187.8  
OVERFLOW TO GRASS  
SWALE

TF=161.81  
INV.=174.71 (IN)  
INV.=171.70 (OUT)

CLCB  
T.G.=187.2  
INV.=184.2

INLET PROTECTION  
(TYP.)

SITE PLAN - GRADING AND UTILITIES

PROPOSED SYNTHETIC TURF FIELD AND TENNIS COURT DEVELOPMENT  
SOUTH WINDSOR HIGH SCHOOL  
AYERS ROAD AND NEVERS ROAD  
SOUTH WINDSOR, CONNECTICUT

CEH DESIGNED	JDH DRAWN
1"=30'	
DECEMBER 15, 2023	

GR-1

SHEET



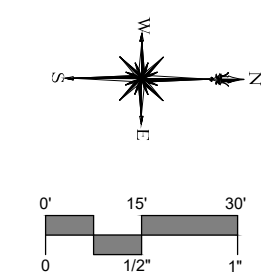
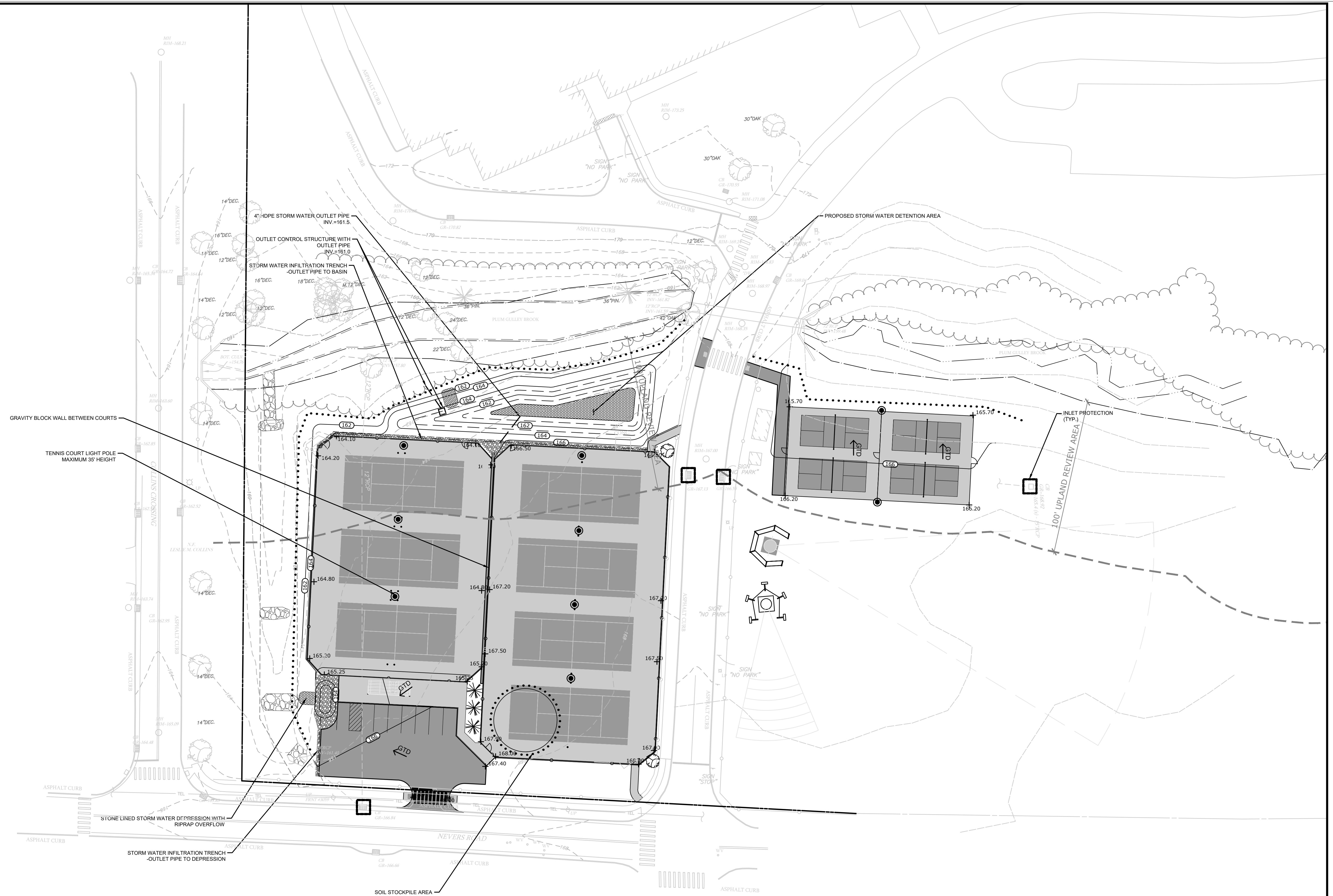
CEH ENGINEERING  
AND CONSULTING  
580 SHEPARD AVENUE  
HAMDEN, CT 06514  
chris.hulk@yahoo.com, 203-676-4445



A Tarkett Sports Company

DESCRIPTION	DATE	BY
INWC SUBMISSION	12/29/2023	CEH
P & Z SUBMISSION	1/22/2024	CEH
P & Z SUBMISSION	3/4/2024	CEH
P & Z SUBMISSION	4/17/2024	CEH





CEH ENGINEERING  
AND CONSULTING  
580 SHEPARD AVENUE  
HAMDEN, CT 06514



DESCRIPTION	DATE	BY
IWWC SUBMISSION REVISIONS	12/28/2023	CEH
PZC SUBMISSION	1/22/2024	CEH

**SITE PLAN - LAYOUT AND MATERIALS**

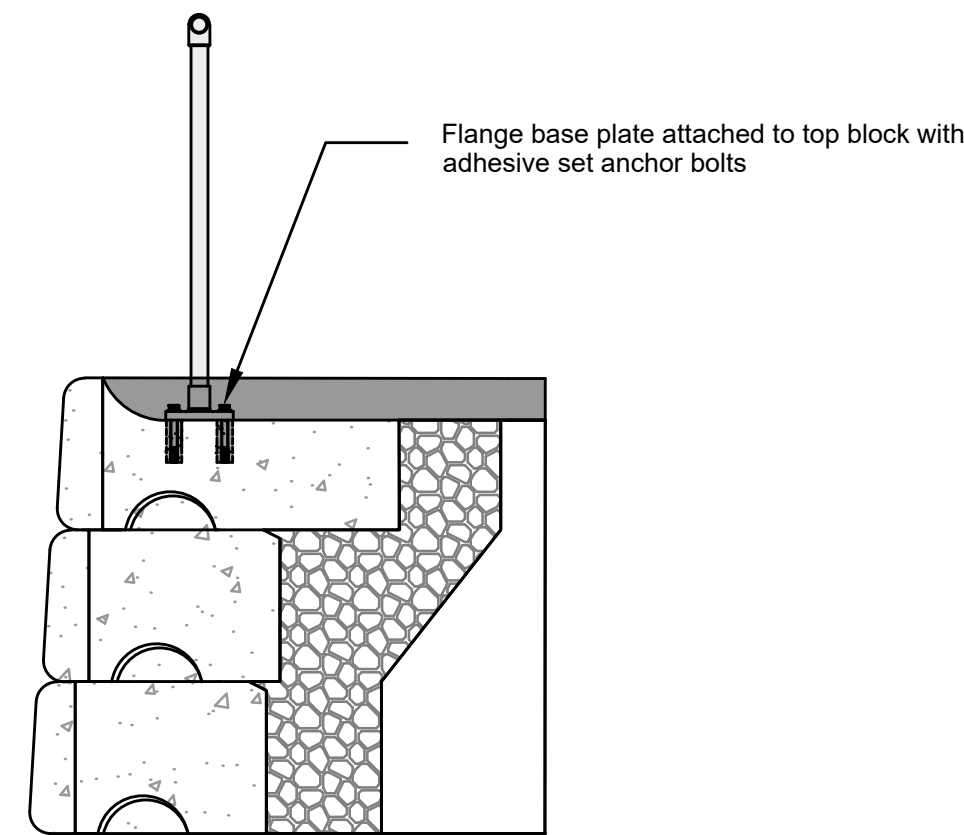
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**PROPOSED SYNTHETIC TURF FIELD AND TENNIS COURT DEVELOPMENT  
SOUTH WINDSOR HIGH SCHOOL**

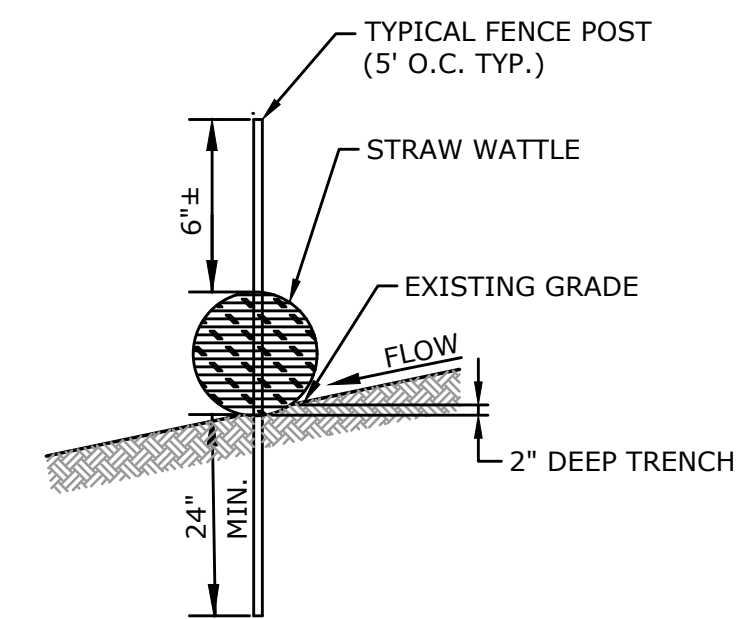
**LAYERS ROAD AND NEVERS ROAD  
SOUTH WINDSOR, CONNECTICUT**

<b>CEH</b> DESIGNED	<b>JDH</b> DRAWN
<b>1" = 30'</b>	
<b>SCALE</b>	
<b>DECEMBER 15, 2023</b> DATE	
<b>GR-2</b>	
SHEET	

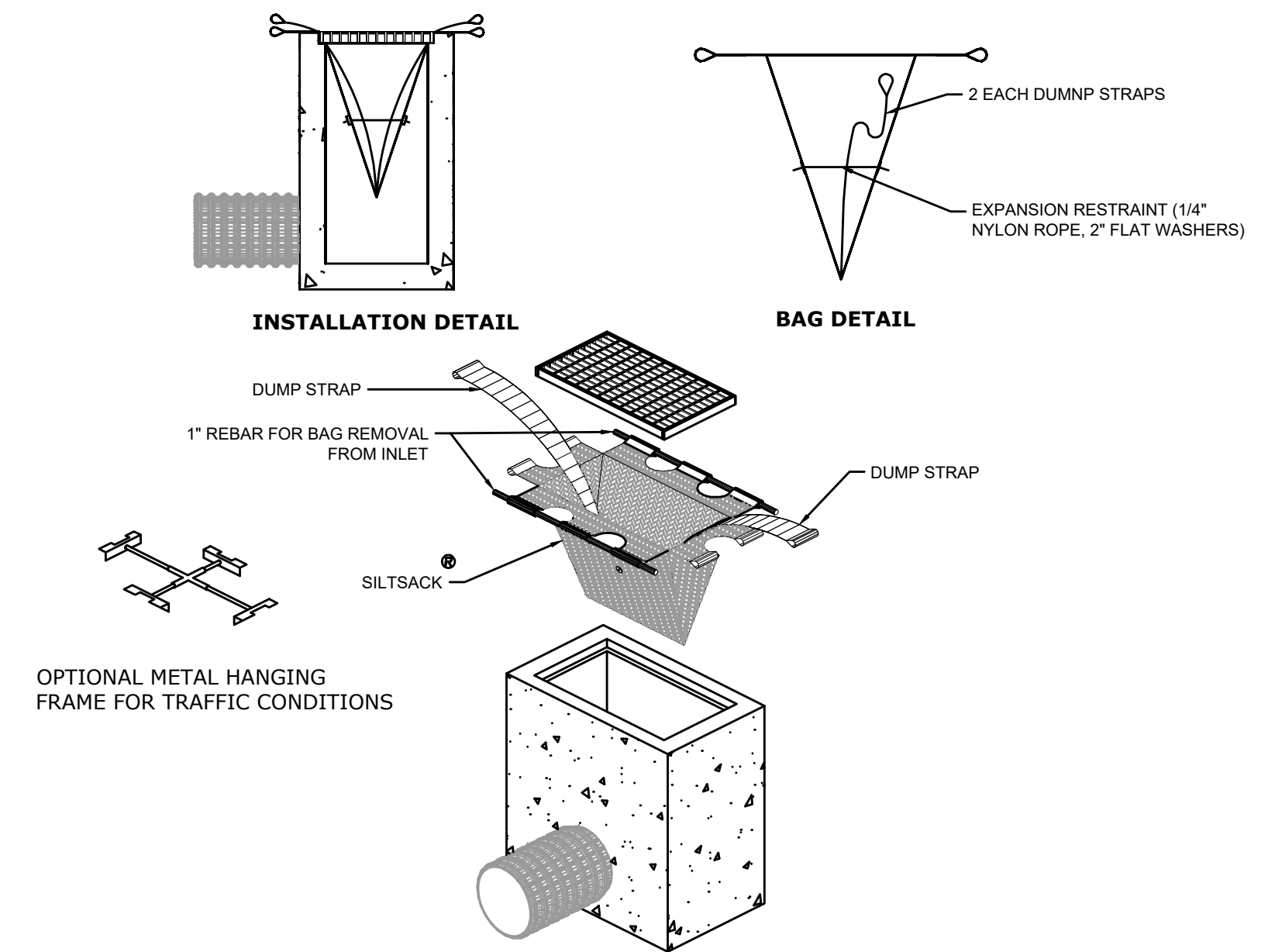




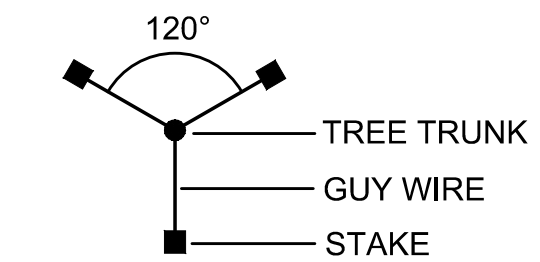
**TYPICAL PLATE MOUNTED FENCE**  
NOT TO SCALE



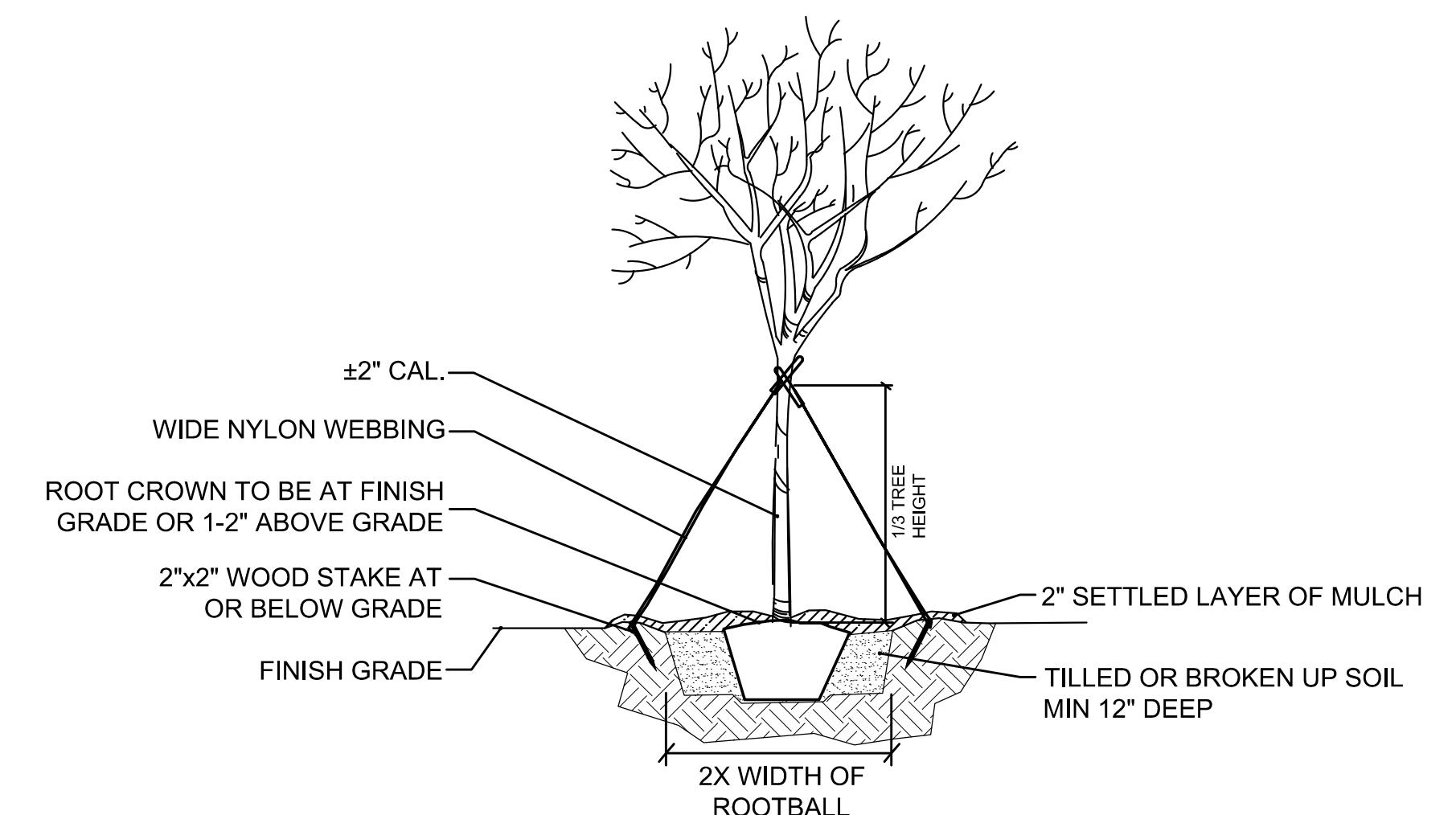
WATTLE ON BARE SOIL  
N.T.S.



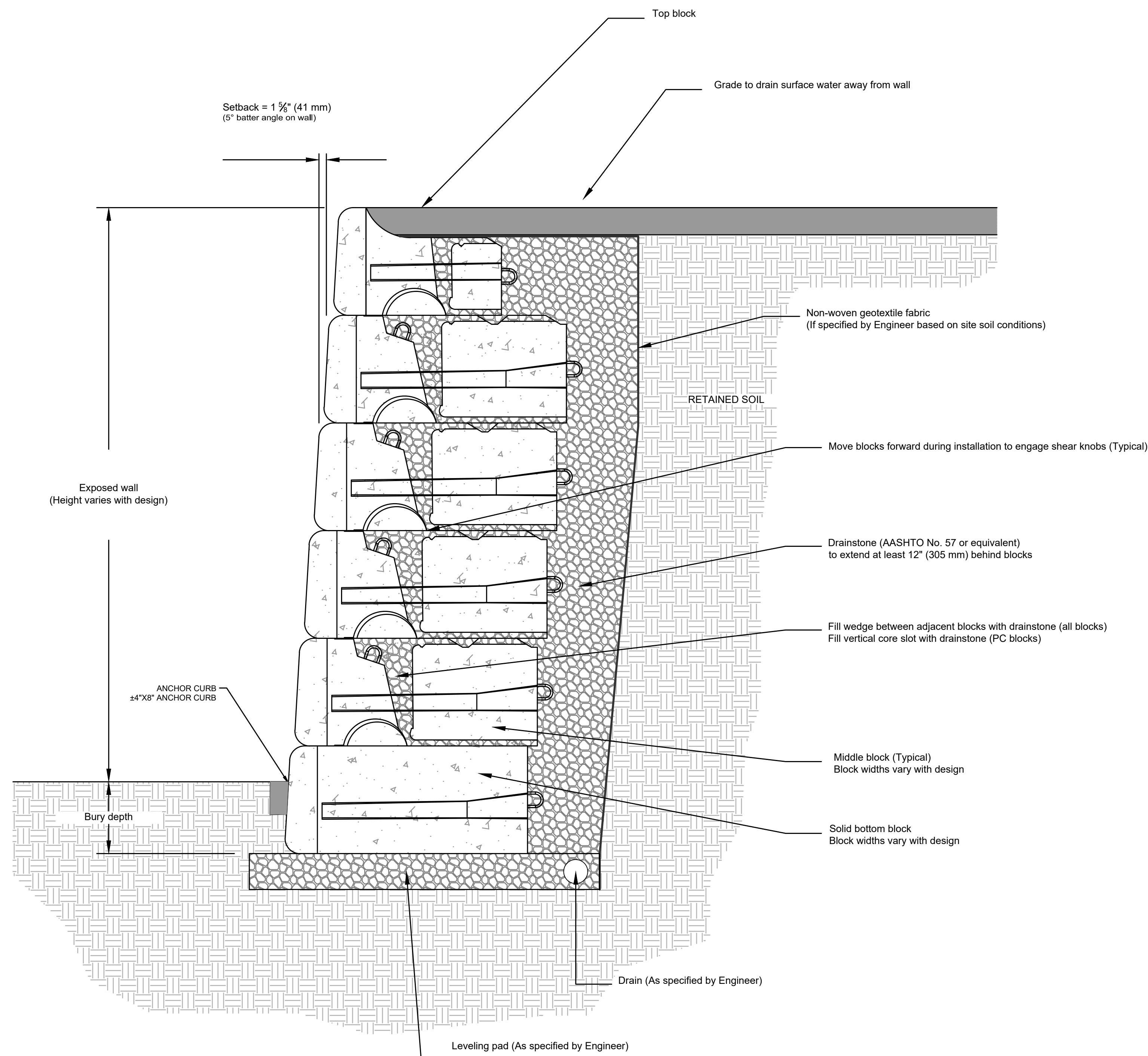
INLET PROTECTION  
N.T.S.



### PLAN VIEW



TREE PLANTING DETAIL  
N.T.S.



**TYPICAL GRAVITY RETAINING WALL**  
NOT TO SCALE





**NOTE:**

1. ALL CHAIN LINK POSTS, RAILS, FABRIC AND HARDWARE TO BE BLACK VINYL
2. 4' AND 6' HEIGHT FENCE POSTS MAY BE CORE DRILLED INTO CURBING.
3. ALL GATE POSTS TO HAVE FULL DEPTH FOUNDATIONS.
4. FENCE HEIGHTS ABOVE 6' ARE PROVIDED ON SEPARATE DETAIL



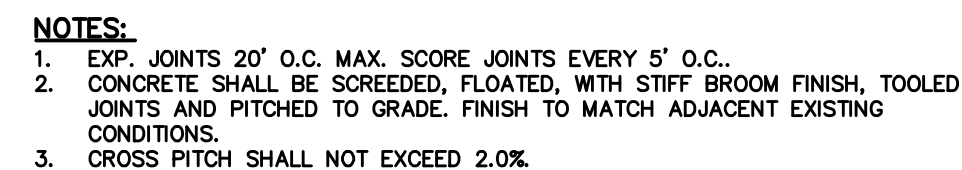
**NOTES:**

1. MATERIALS AND METHOD OF CONSTRUCTION SHALL CONFORM TO CHAIN LINK FENCE DETAIL ON THIS SHEET.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL



- 

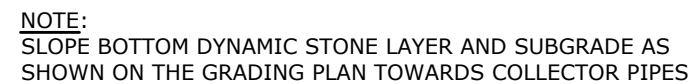
**CONTROL JOINT**  
N.T.S.



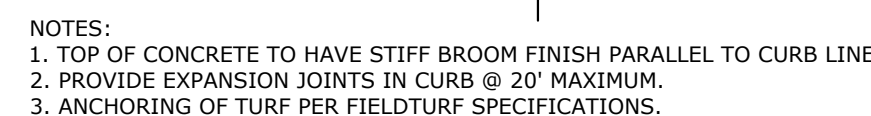
CONCRETE SIDEWALK  
N.T.S.



**FLUSH CONCRETE TURF ANCHOR CURB AT**  
**FENCE GATE POST**  
NOT TO SCALE



**SYNTHETIC INFILL TURF**  
NOT TO SCALE



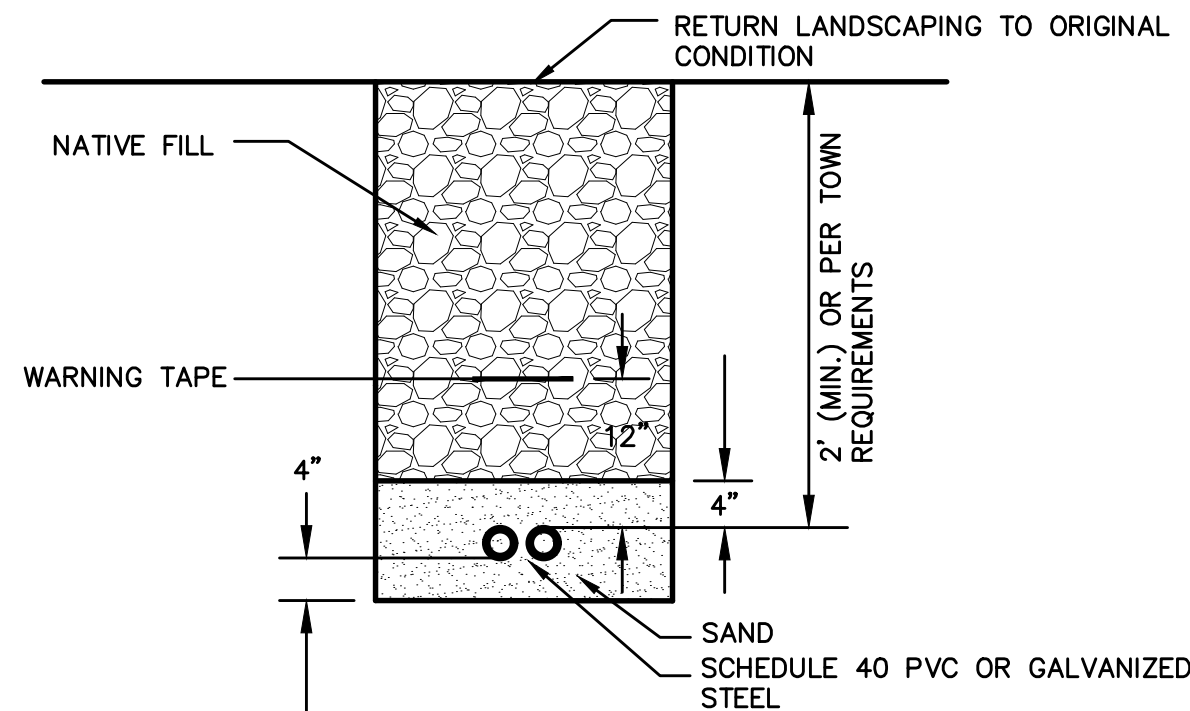
CONCRETE TURF ANCHOR CURB  
AT FENCE POST  
NOT TO SCALE



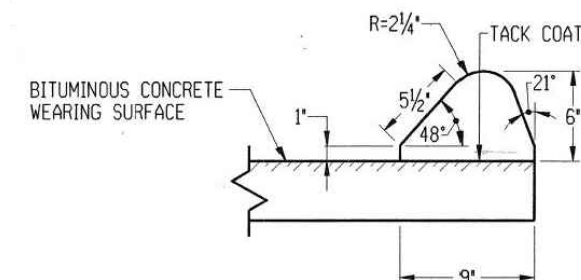
**CONCRETE TURF ANCHOR CURB**  
NOT TO SCALE



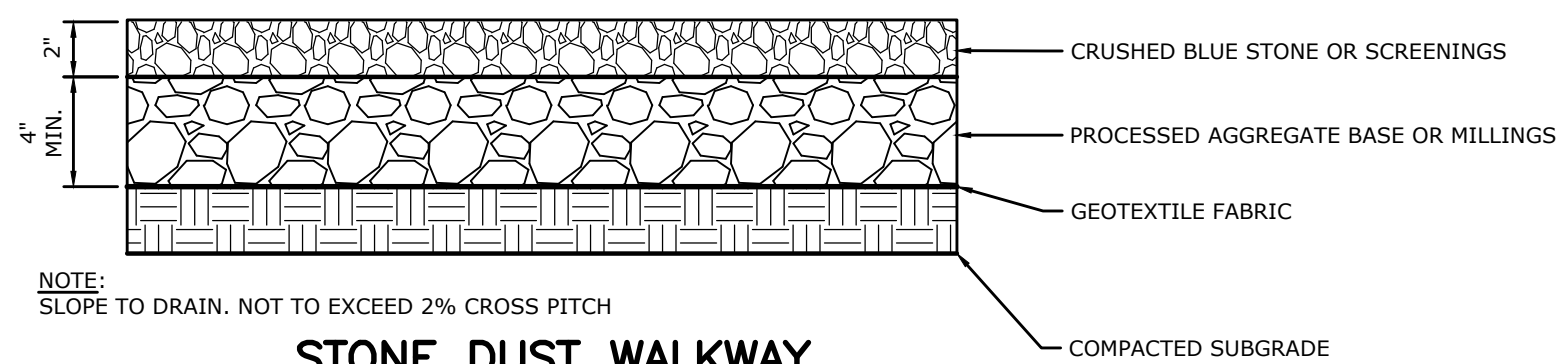
CEH Engineering & Consulting, Inc. 10 Corporate Center, Suite 200, Hamden, CT 06514  
Tel: (203) 283-1111 Fax: (203) 283-1112  
www.ceh-engineering.com



**TYPICAL ELECTRICAL TRENCHING AND BACKFILL DETAIL**  
NOT TO SCALE

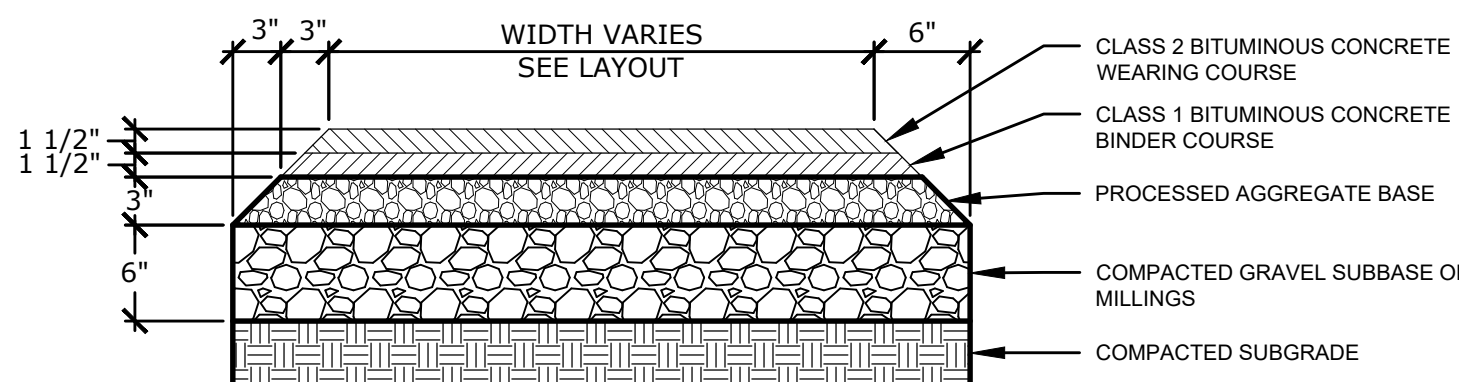


**BITUMINOUS LIP CURBING**  
NOT TO SCALE

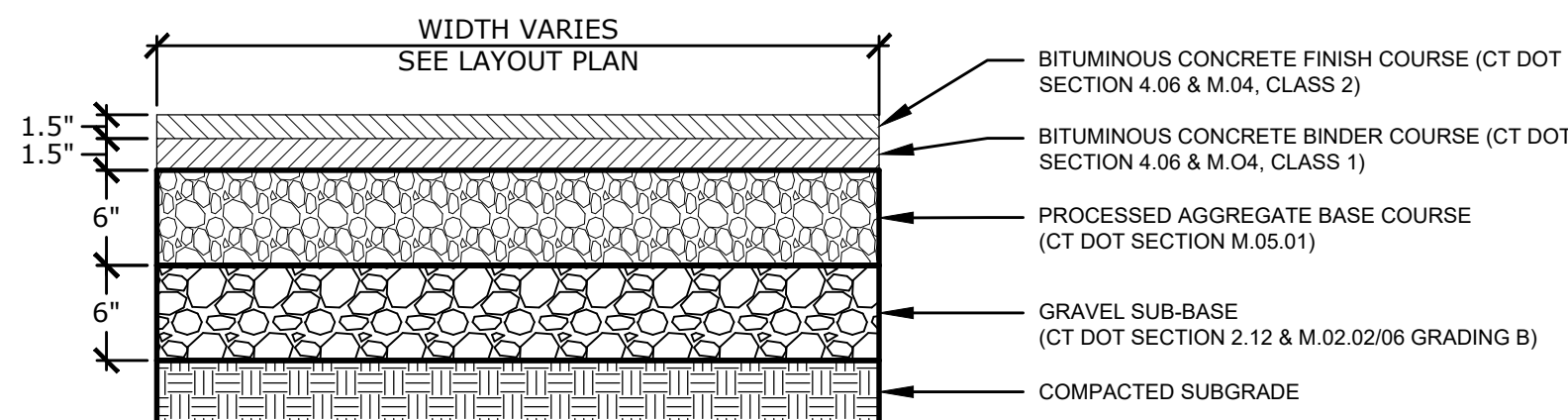


NOTE: SLOPE TO DRAIN. NOT TO EXCEED 2% CROSS PITCH

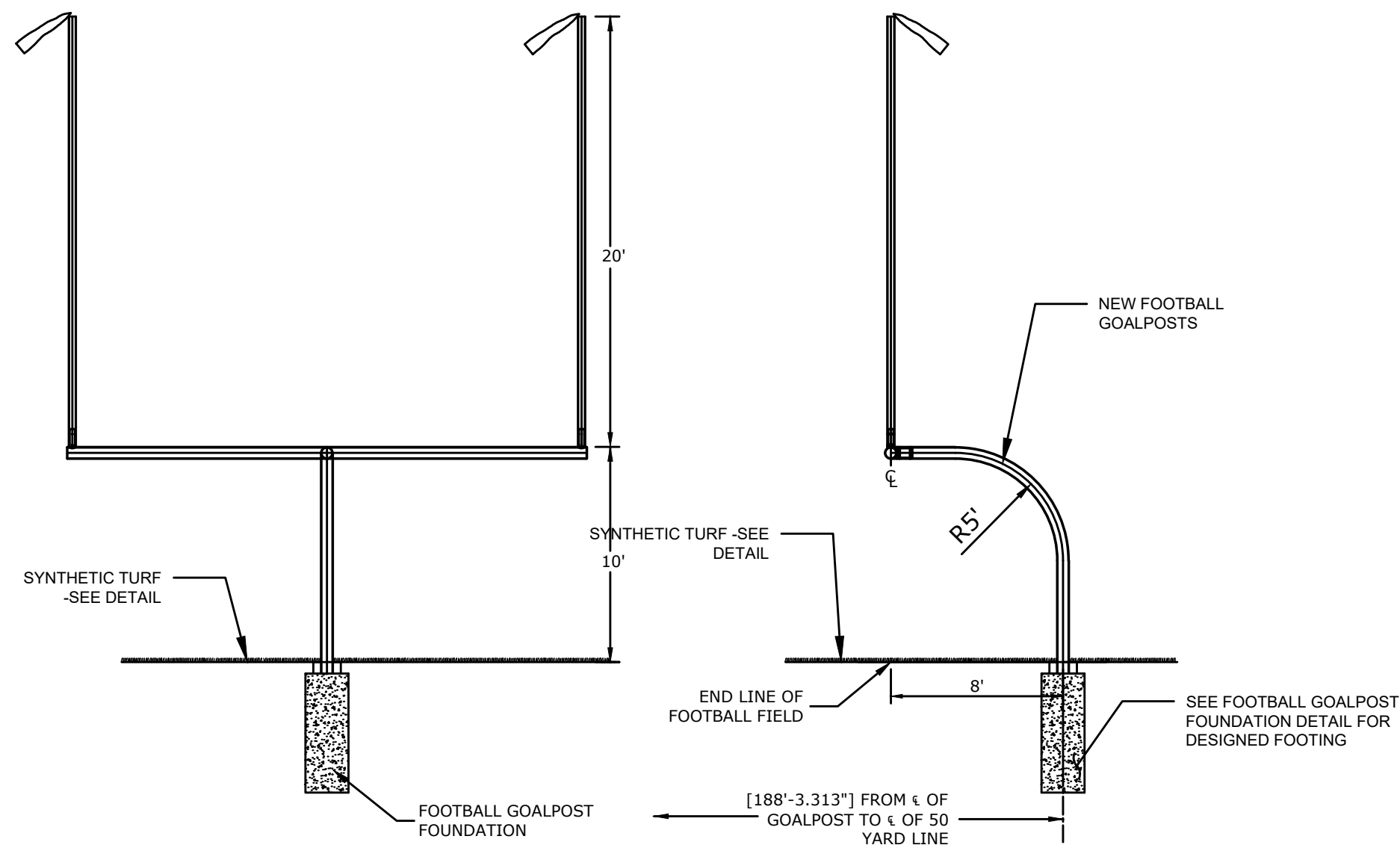
**STONE DUST WALKWAY**  
NOT TO SCALE



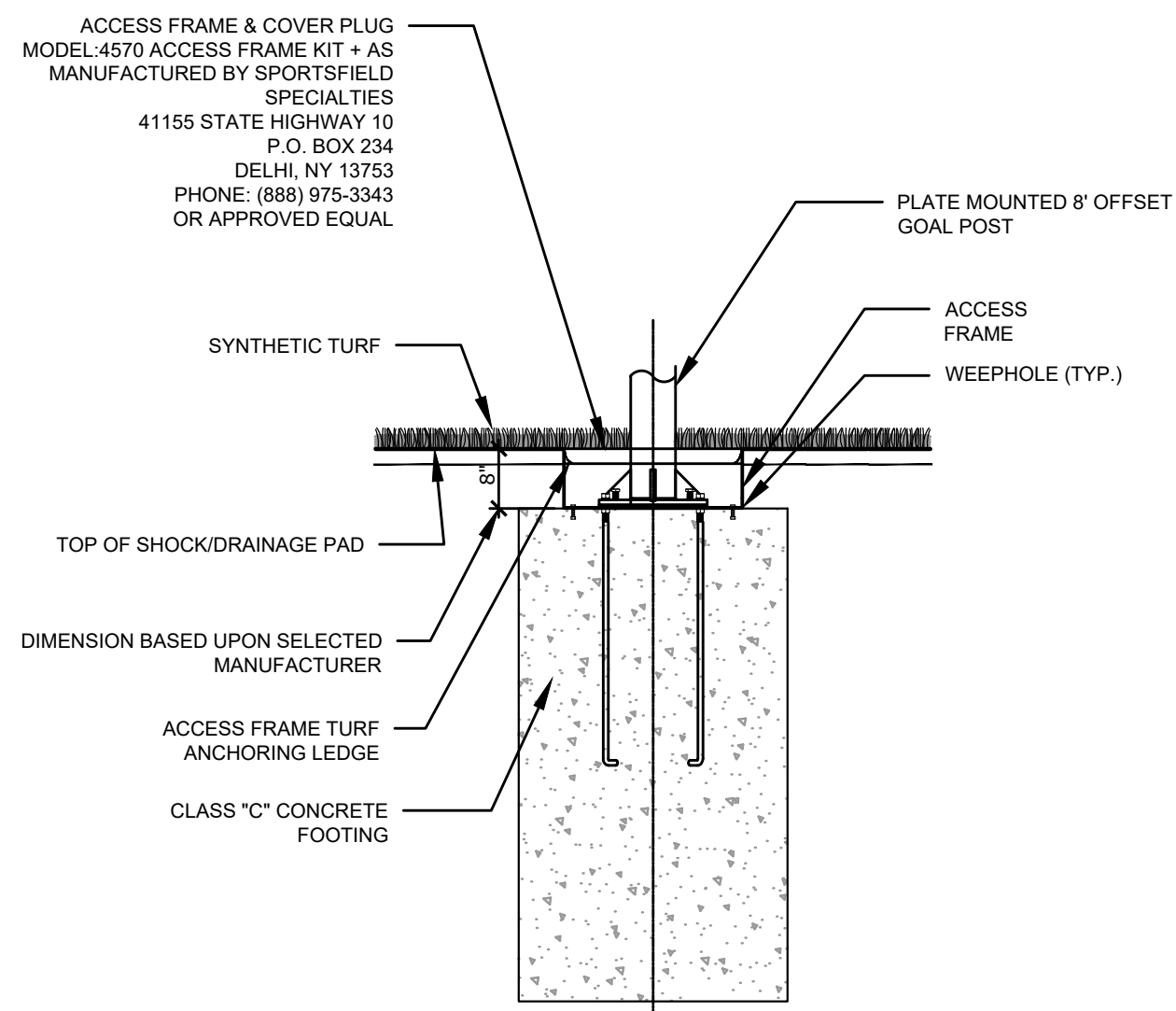
**BITUMINOUS CONCRETE WALK**  
NOT TO SCALE



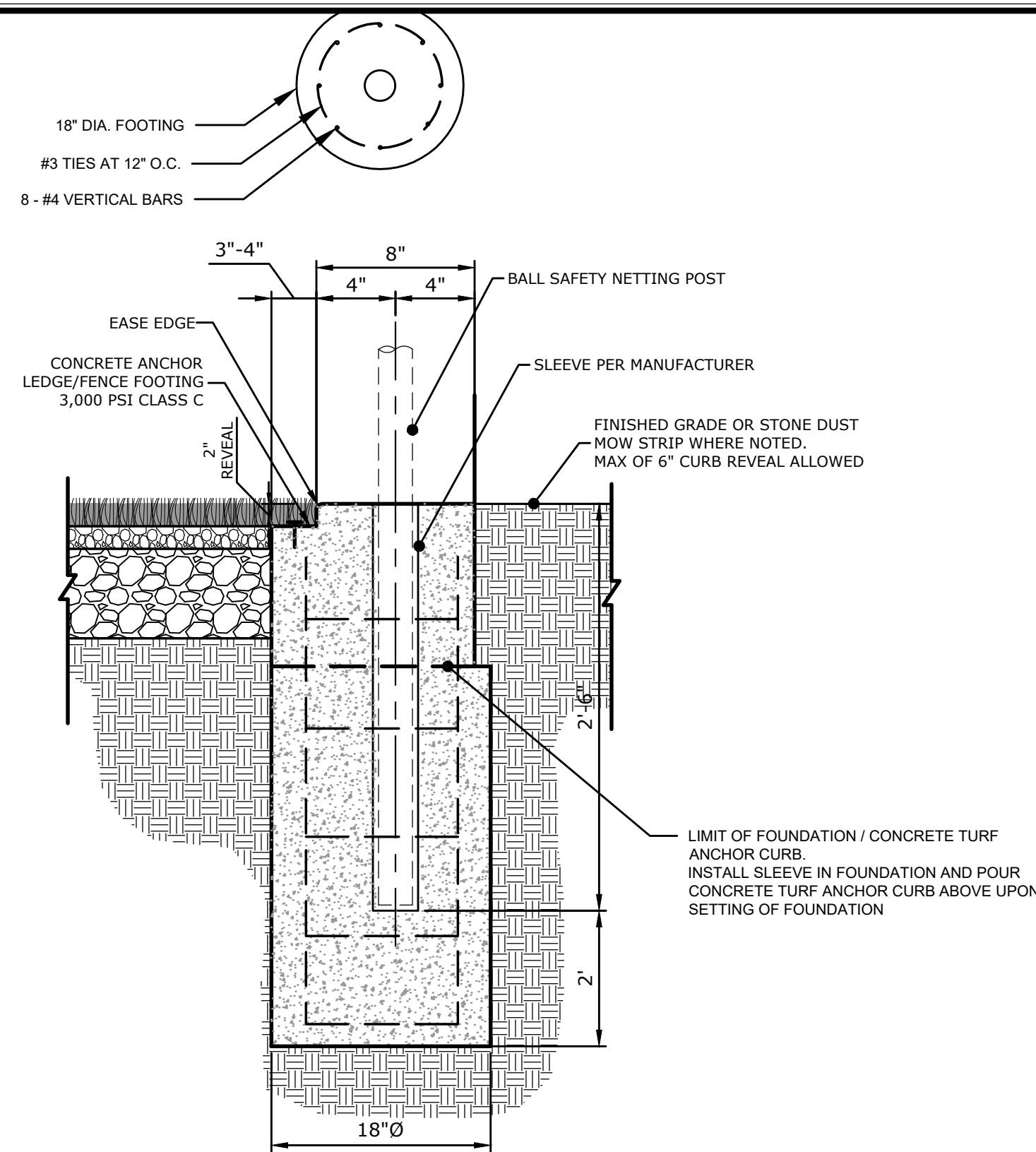
**BITUMINOUS CONCRETE**  
NOT TO SCALE



**FOOTBALL GOAL POST**  
N.T.S.

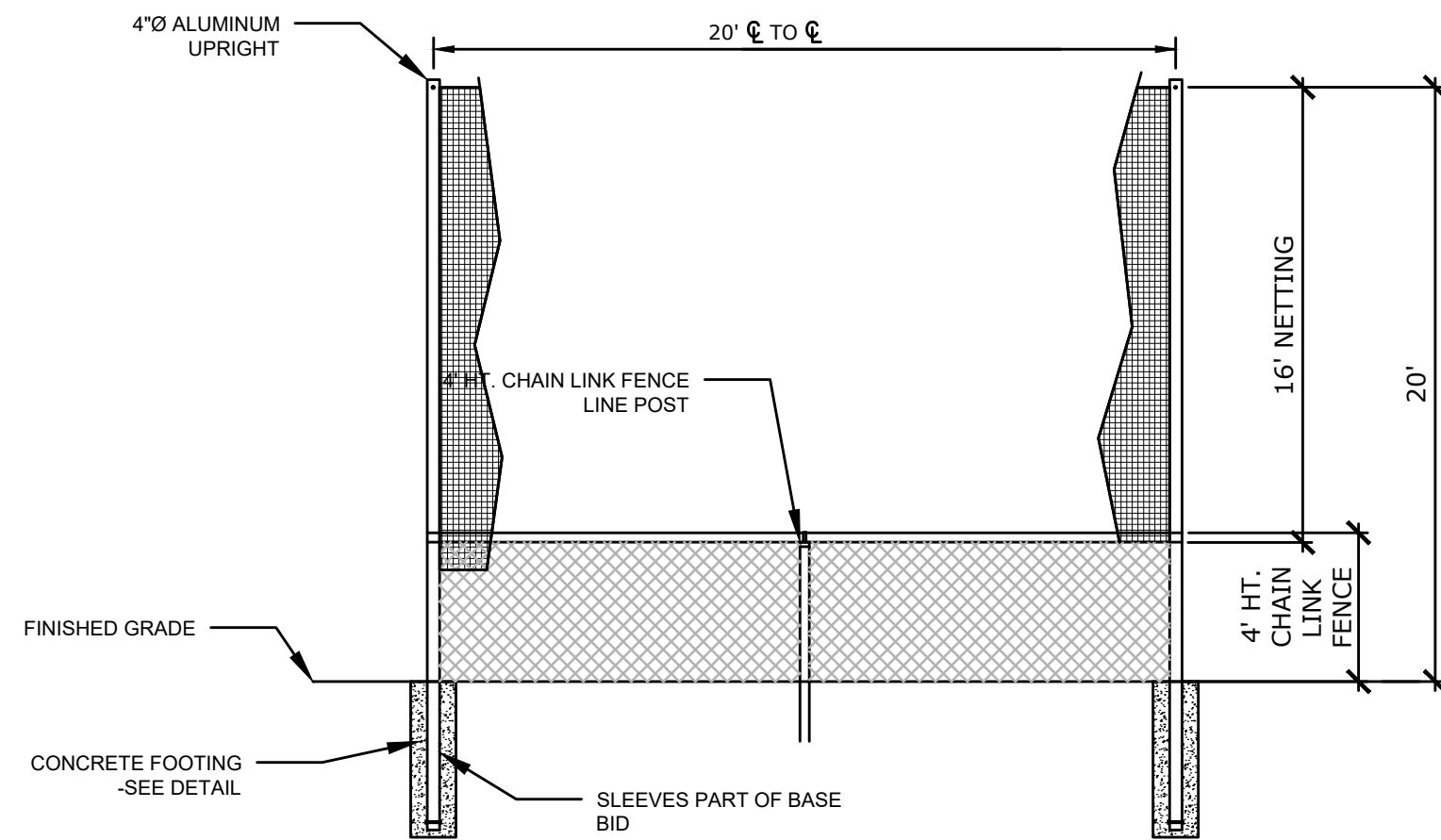


**FOOTBALL GOALPOST ACCESS FRAME**  
N.T.S.



NOTES:  
1. TOP OF CONCRETE TO HAVE STIFF BROOM FINISH PARALLEL TO CURB LINE  
2. PROVIDE EXPANSION JOINTS IN CURB @ 20' MAXIMUM.  
3. ANCHORING OF TURF PER FIELDTURF SPECIFICATIONS.

**INTEGRAL BALL SAFETY NETTING FOUNDATION ABOVE FENCE**  
NOT TO SCALE



NOTES:  
1. 20' HT. BALL SAFETY SYSTEM, MODEL: TFBSS420-SG-20' HT. WITH CUSTOM NET AS MANUFACTURED BY SPORTSFIELD SPECIALTIES, INC. NEW DELHI, NY TEL: 888-975-3343, OR APPROVED EQUAL.  
2. NETTING SHALL OVERLAP CHAIN LINK FENCE IF SELECTED WITH A MINIMUM OF 1-FOOT AND SHALL BE SECURED TO THE FENCING FABRIC WITH QUICK CLIP SPRING HOOKS.  
3. NETTING SHALL OVERLAP THE CHAIN LINK FENCE ON THE PLAYING FIELD SIDE OF THE FENCE FABRIC.

**INTEGRAL BALL SAFETY NETTING - 20' HT.**  
N.T.S.



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AND CONSULTING  
580 SHEPARD AVENUE  
HAMDEN, CT 06514



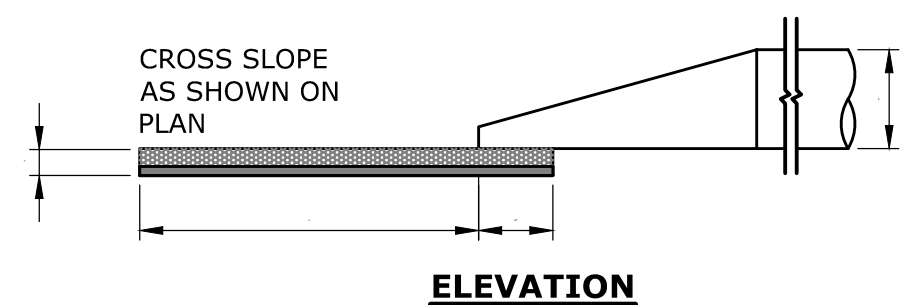
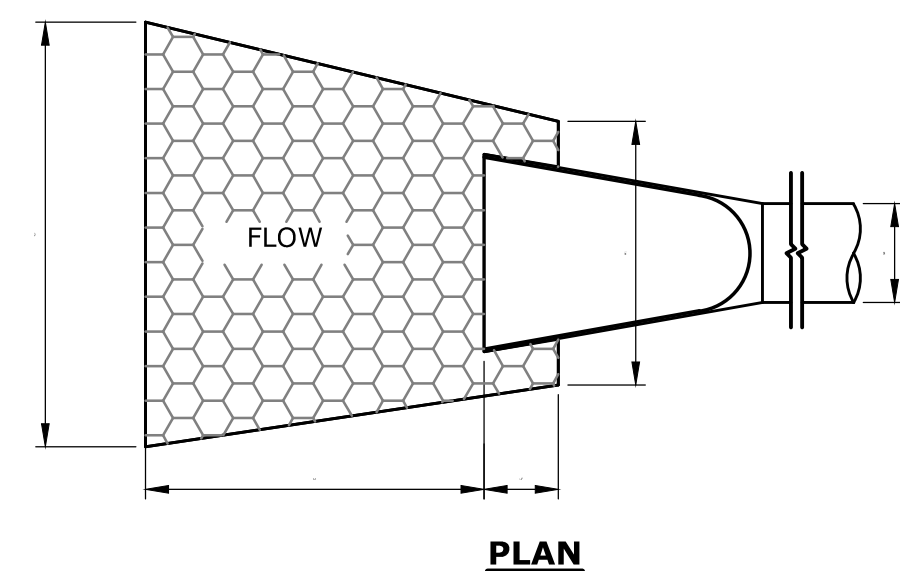
A Tarkett Sports Company

DESCRIPTION	DATE	BY
P2C SUBMISSION	1/22/2024	CEH

**SITE DETAILS**  
PROPOSED SYNTHETIC TURF FIELD AND TENNIS COURT DEVELOPMENT  
SOUTH WINDSOR HIGH SCHOOL  
AYERS ROAD AND NEVERS ROAD  
SOUTH WINDSOR, CONNECTICUT

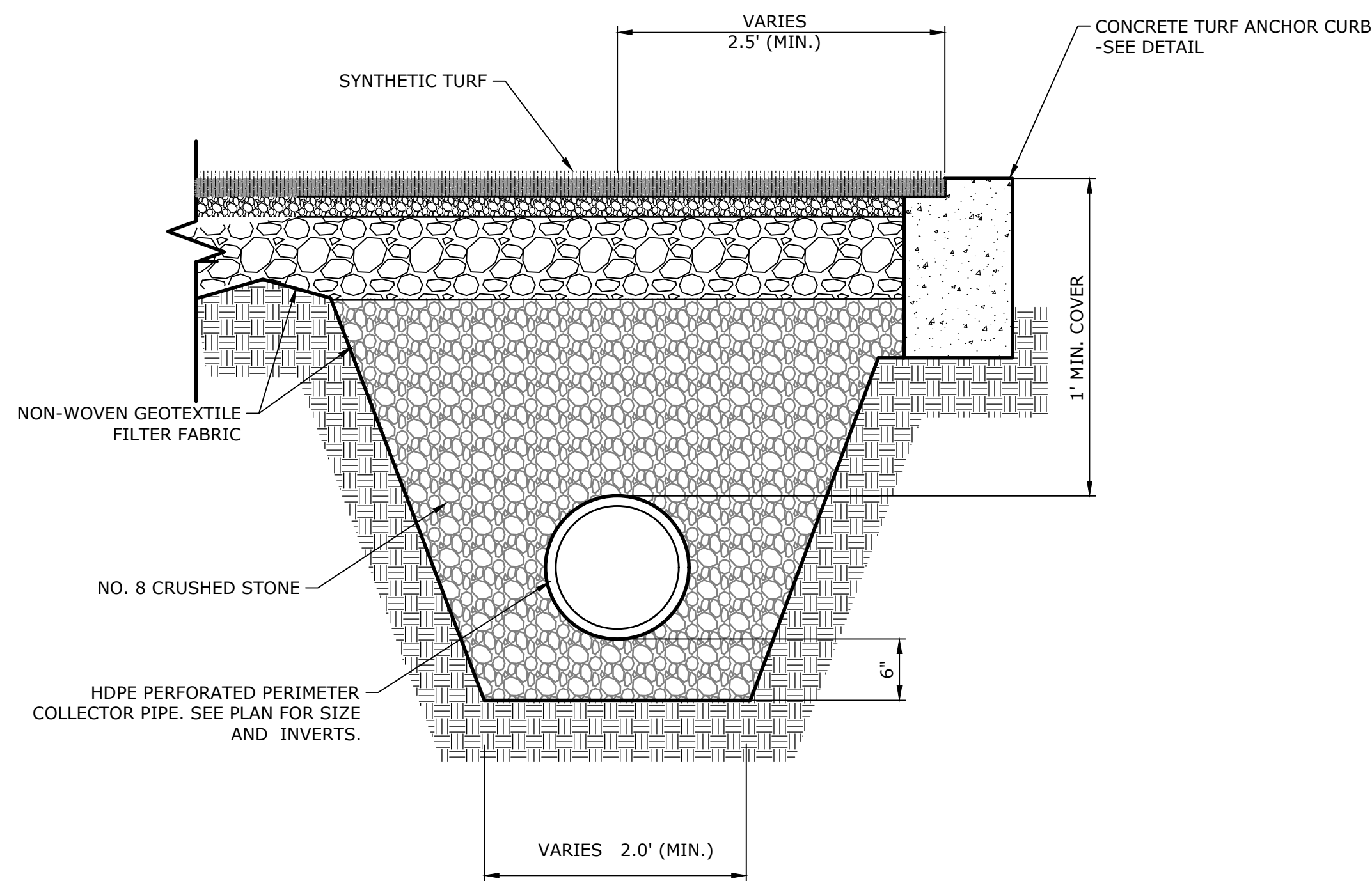
CEH DESIGNED	JDH DRAWN
NOT TO SCALE	
DECEMBER 15, 2023	
D-3	



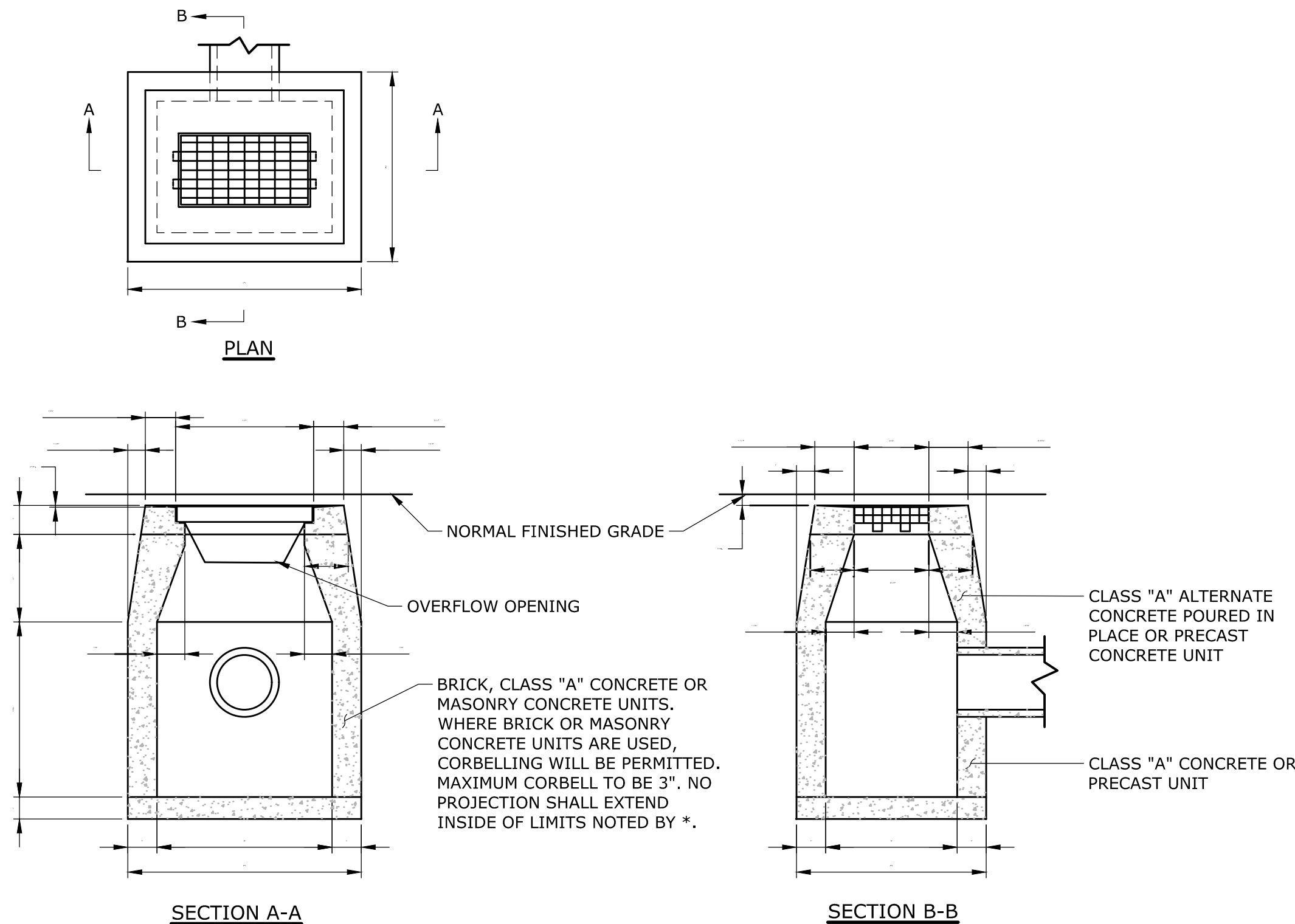


OUTLET PROTECTION ID	TYPE	SP (FT)	RP (FT)	LA (FT)	W1 (FT)	W2 (FT)	D (IN)
FES ANALYSIS POINT C	TYPE B INTER-MEDIATE	1.25	1.25	10.0	4.0	7.0	12

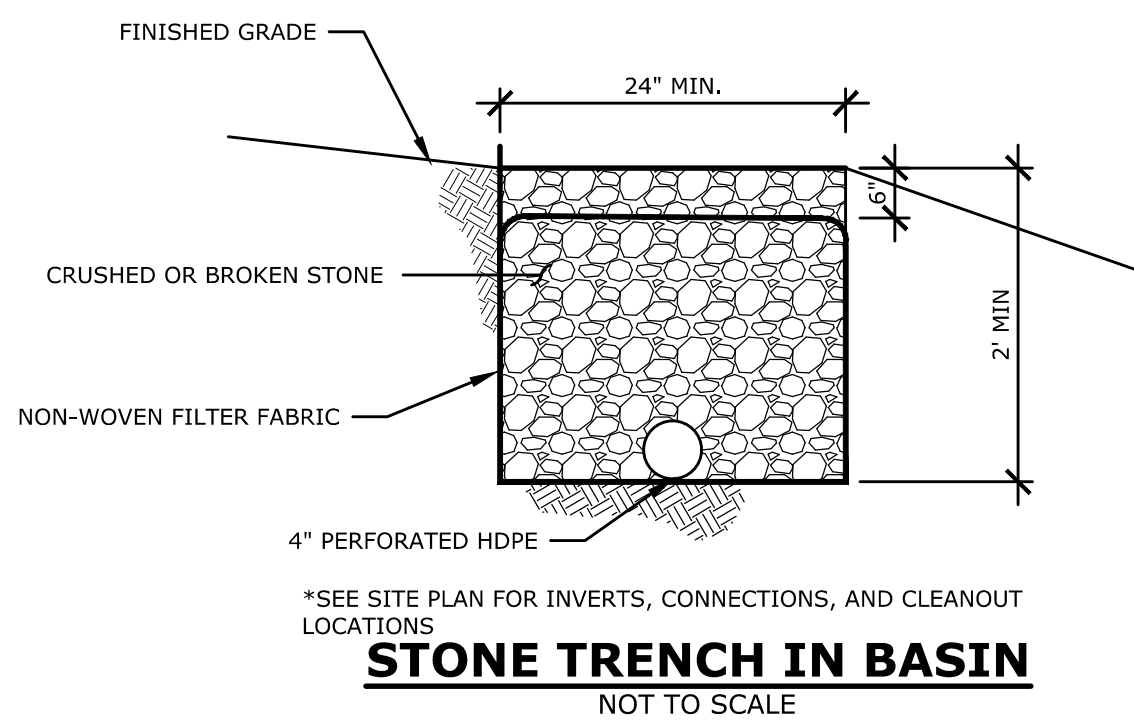
**FLARED END WITH RIP RAP SPLASH PAD**  
NOT TO SCALE



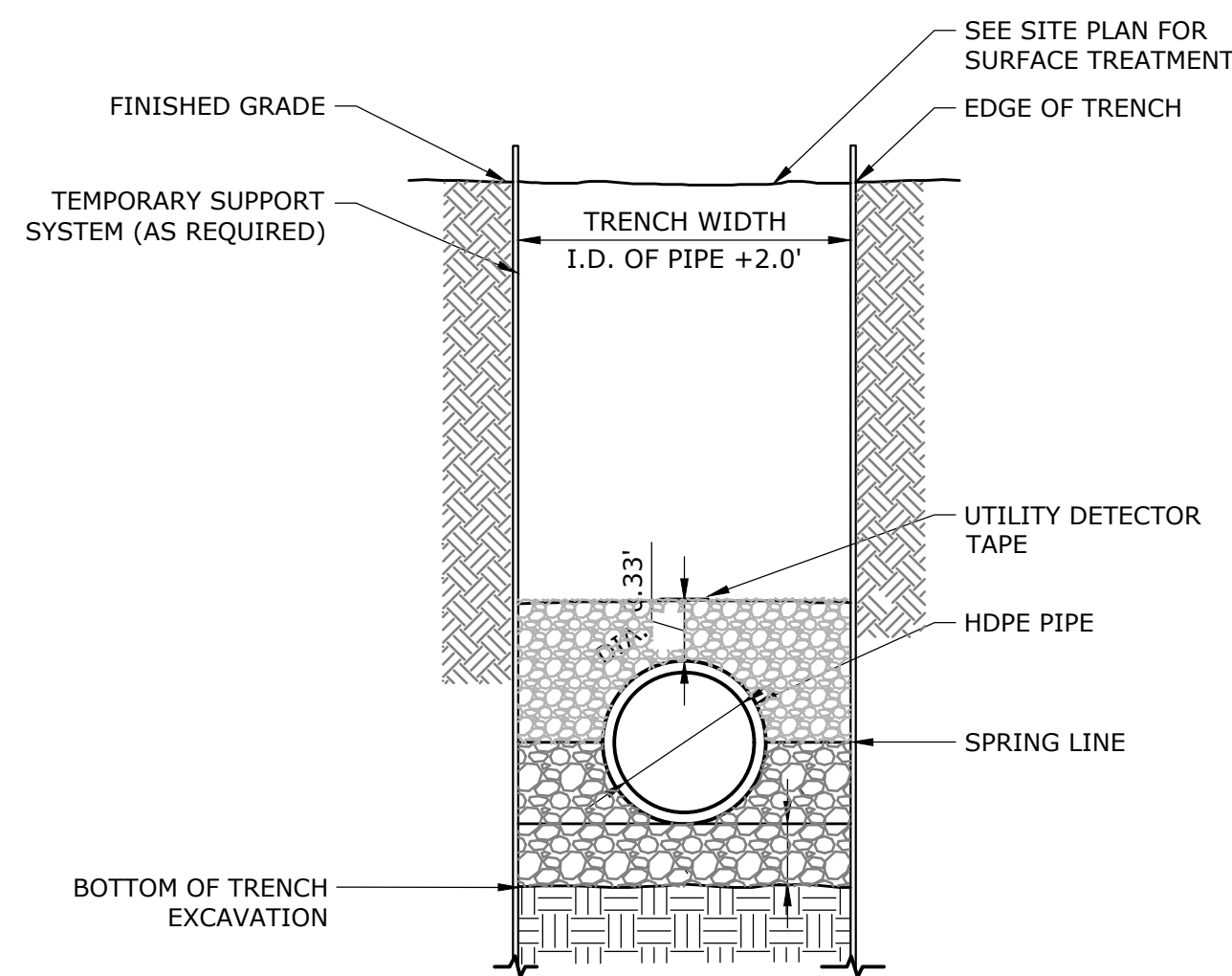
COLLECTOR PIPE SECTION



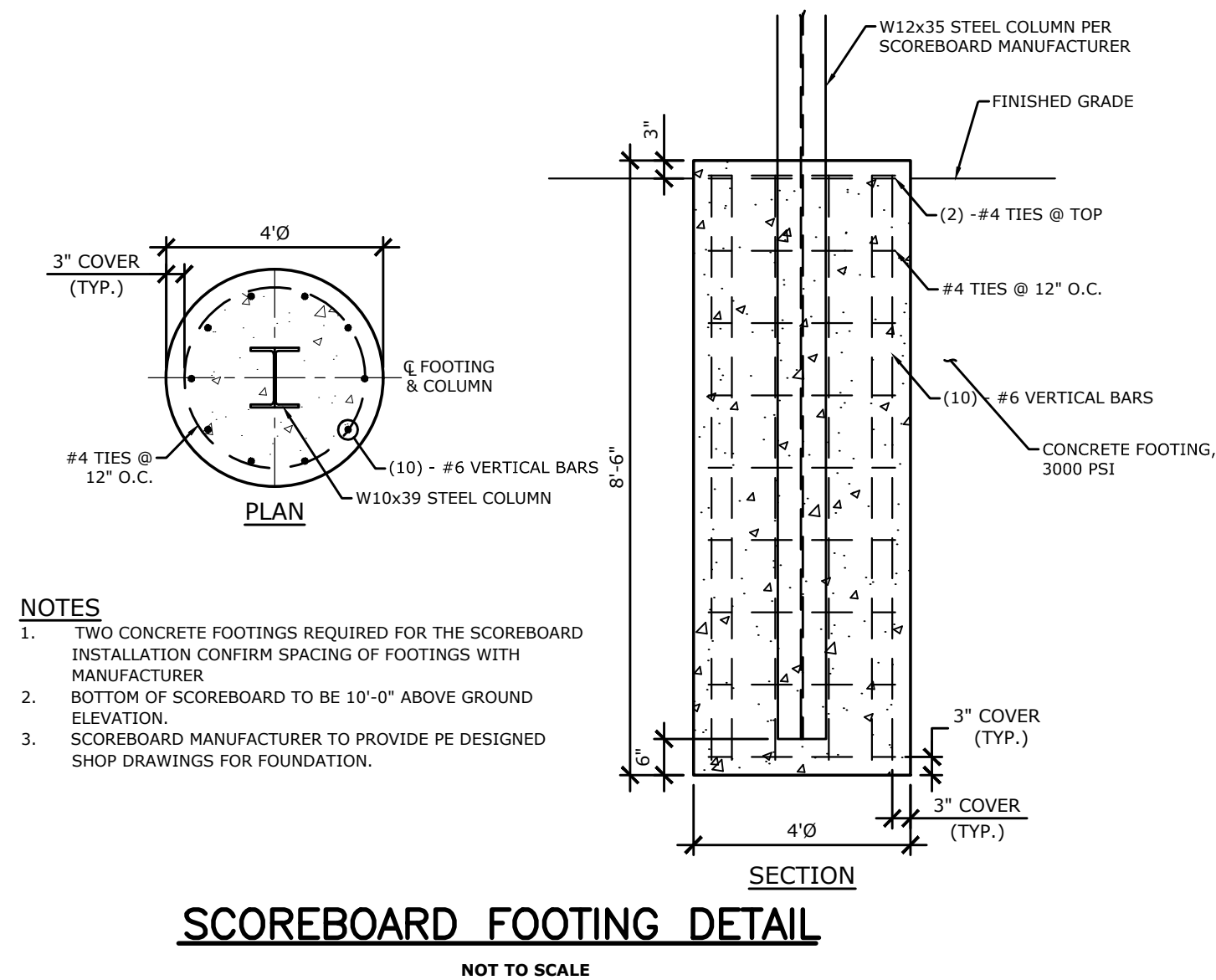
**TYPICAL OUTLET CONTROL**  
**STRUCTURE**  
NOT TO SCALE



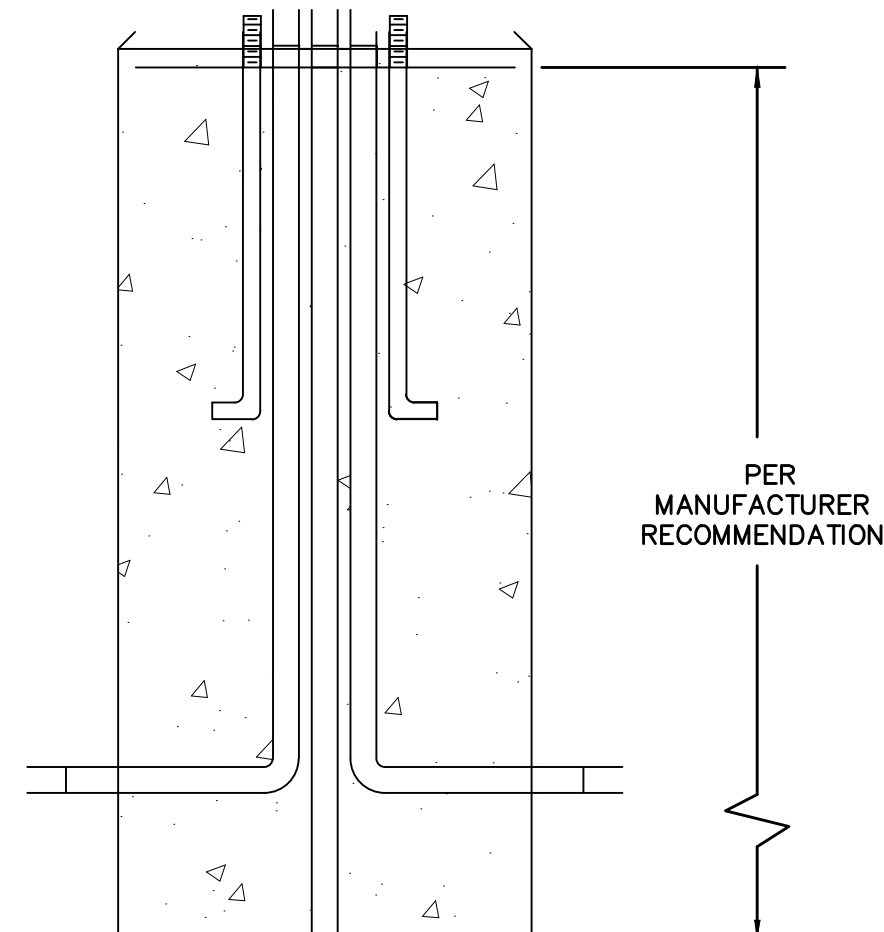
**STONE TRENCH IN BASIN**  
NOT TO SCALE



**TYPICAL STORM DRAINAGE TRENCH**  
NOT TO SCALE



### SCOREBOARD FOOTING DETAIL

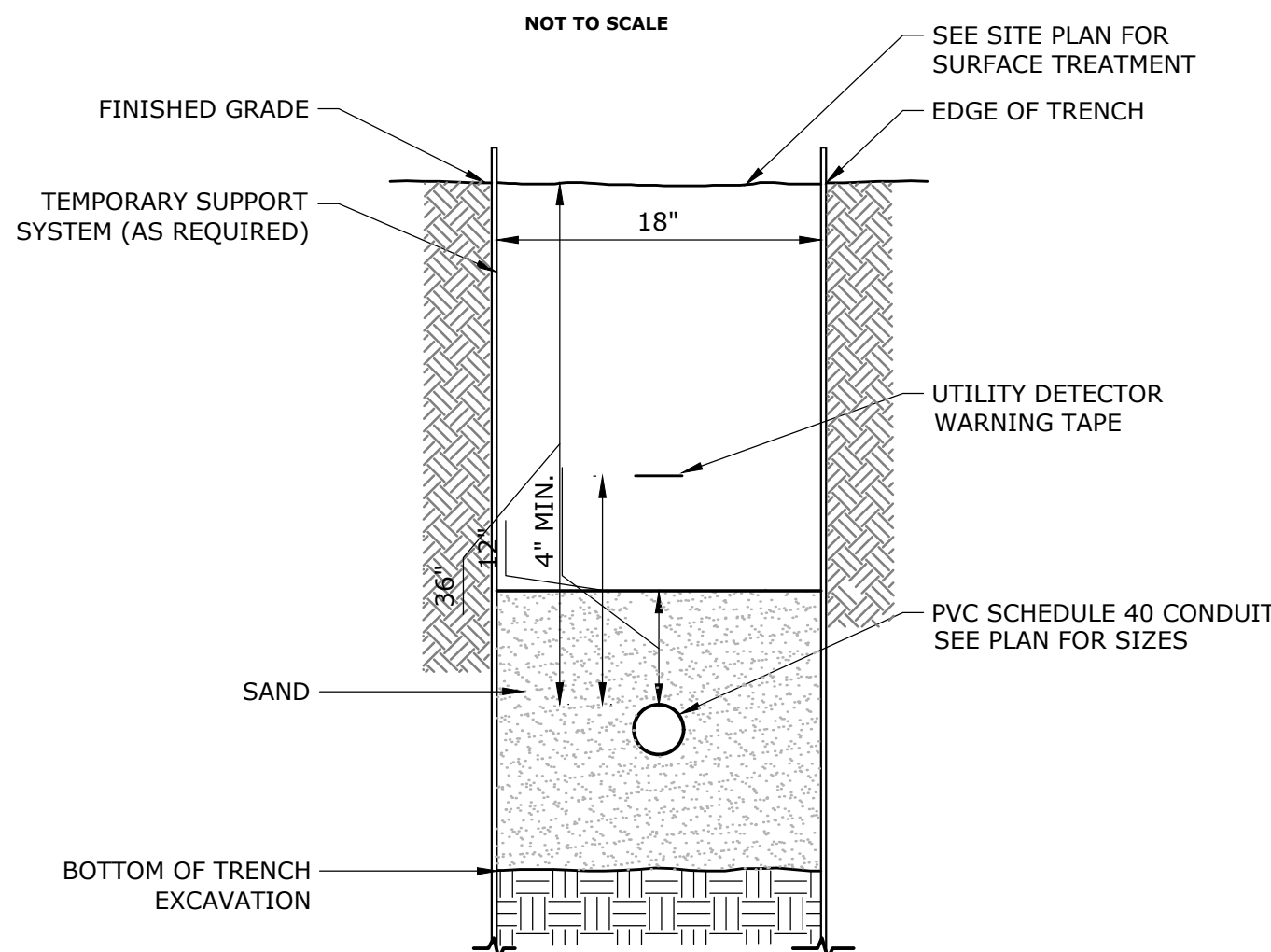


FRONT VIEW

DESIGN NOTES:

- 1 - CONCRETE 4000 PSI AT 28 DAYS.
- 2 - BASIS OF DESIGN: MUSCO LIGHTING PRECAST WITH REINFORCING AS SPECIFIED BY OEM.
- 3 - ANCHOR BOLTS AND GROUNDING AS SPECIFIED BY OEM.
- 4 - BALLAST POURED AROUND BASE IF REQUIRED.
- 5 - BOLT PROJECTION AS SPECIFIED BY POLE MANUFACTURER.
- 6 - 3/4" X 10' UL LISTED COPPER BONDED GROUND ROD.
- 7 - SEE PLAN FOR CONDUIT SIZES.
- 8 - EC TO COORDINATE CONDUIT ENTRANCE INTO THE FOUNDATION(S) PER SITE CONDITIONS/REQUIREMENTS.

### TYPICAL ATHLETIC LIGHT POLE FOUNDATION DETAIL



**TYPICAL ELECTRICAL**  
**CONDUIT TRENCHING**  
NOT TO SCALE

DESCRIPTION	DATE	BY
PZC SUBMISSION	1/22/2024	CEH