



The Williams School

ATHLETIC COMPLEX

ATHLETICS TEAM AND FACILITIES BUILDING

122 BLOOMINGDALE ROAD
WATERFORD, CONNECTICUT

APRIL 2024

CIVIL PERMIT DRAWINGS

MUNICIPAL LAND USE COMMISSION SUBMISSION

PREPARED FOR:

THE WILLIAMS SCHOOL

PREPARED BY:

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

EXPIRATION DATE PER SECTION 8-3(i) OF THE CONNECTICUT GENERAL STATUTES _____

APPROVED BY THE TOWN OF WATERFORD PLANNING AND ZONING COMMISSION

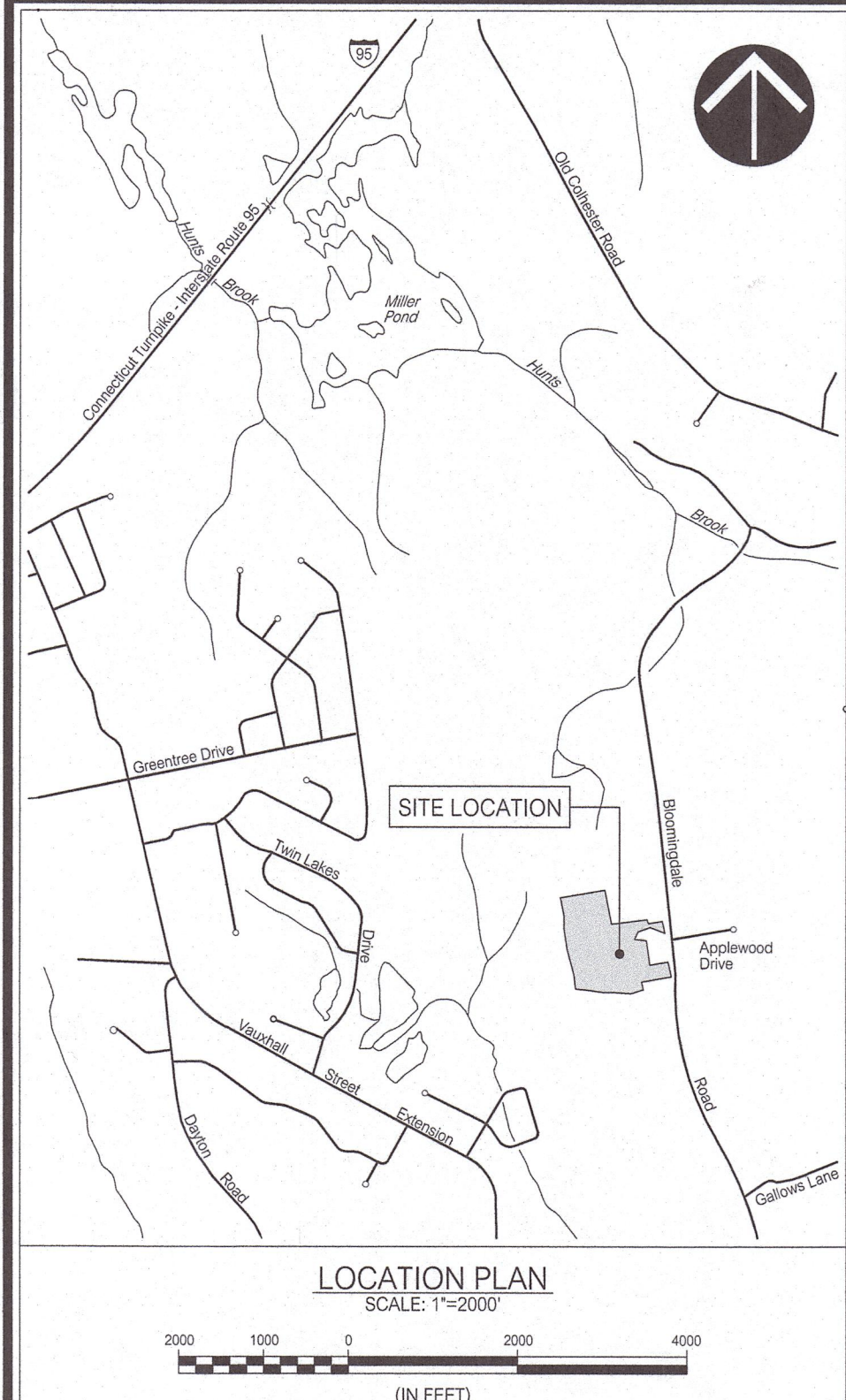
CHAIRMAN _____

DATE _____

No. _____

SCHEDULE OF DRAWINGS

SHEET No.	TITLE
C0.1	TITLE SHEET
C0.2	GENERAL NOTES, ABBREVIATIONS, AND LEGEND
C0.3	EROSION AND SEDIMENT CONTROL NOTES
C2.1	GENERAL PLAN
C3.1	DETAILS
C3.2	DETAILS



OWNER
WILLIAMS MEMORIAL INSTITUTE
P.O. BOX 1310
NEW LONDON, CONNECTICUT 06320
860-439-2786

APPLICANT
THE WILLIAMS SCHOOL
P.O. BOX 1310
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MICHAEL J. OTT, P.E., L.S.
CT REGISTRATION No. 70082

DATE _____

SHEET No.: C0.1

ABBREVIATIONS

Ac.	ACRE
ACP	ASBESTOS CEMENT PIPE
ACCOMP	ASPHALT COATED CORRUGATED METAL PIPE
A.O.B.E.	AS ORDERED BY ENGINEER
B&B	BALLED & BURLAPPED
BIT.	BITUMINOUS
BM	BENCHMARK
B.O.F.	BOTTOM OF FOOTING
CATV	CABLE TELEVISION
CB	CATCH BASIN
C.C.	CENTER TO CENTER
C.C.S.	CONNECTICUT COORDINATE SYSTEM
CFS	CUBIC FEET PER SECOND
CHD	CONNECTICUT HIGHWAY DEPARTMENT
CIP	CAST IRON PIPE
CJ	CONSTRUCTION OR CONTRACTION JOINT
CL	CLEAR
C.L.&P.	CONNECTICUT LIGHT AND POWER
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONT.	CONTINUOUS
CPEP	CORRUGATED POLYETHYLENE PIPE
C.Y.	CUBIC YARD
DBL.	DOUBLE
DH	DRILL HOLE
DI	DUCTILE IRON
DIA.	DIAMETER
DIP	DUCTILE IRON PIPE
EA.	EACH
EJ	EXPANSION JOINT
EL.	ELEVATION
E.O.B.	END OF BORING
EOP	EDGE OF PAVEMENT
EQ.	EQUAL
EX.	EXISTING
f _c	MINIMUM COMPRESSIVE STRENGTH
f _y	YIELD STRENGTH OF STEEL REINFORCEMENT
F.F.	FINISH FLOOR
FM	FORCE MAIN
FND.	FOUND
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET OR FOOT
GA.	GUAGE
GAL	GALLON
H	HORIZONTAL
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HTL	HIGH TIDE LINE
I.D.	INSIDE DIAMETER
INV.	INVERT
I.P.	IRON PIN/PIPE
KSF	KIPS PER SQUARE FOOT
L	LENGTH
LB	POUND
L.F.	LINEAR FEET
L.S.	LUMP SUM
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAX.	MAXIMUM
MH	MANHOLE
MIN.	MINIMUM
MON.	MONUMENT
NF	NOW OR FORMERLY
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
P.C.	POINT OF CURVATURE
P.C.C.	POINT OF COMPOUND CURVATURE
PE	PLAIN END OR POLYETHYLENE
P.I.	POINT OF INTERSECTION
P.R.C.	POINT OF REVERSE CURVATURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.T.	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
PVCC	POINT OF VERTICAL COMPOUND CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVRC	POINT OF VERTICAL REVERSE CURVATURE
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
ROCE	REINFORCED CONCRETE CULVERT END
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT-OF-WAY
R.R.	RAILROAD
RT	RIGHT
RW	RETAINING WALL
SAN	SANITARY
SCG	SOUTHERN CONNECTICUT GAS
SCH.	SCHEDULE
SDR	STANDARD DIMENSION RATIO
S.F.	SQUARE FOOT
SNET	SOUTHERN NEW ENGLAND TELEPHONE
S.S.	STAINLESS STEEL
STA.	STATION
STD.	STANDARD
S.Y.	SQUARE YARD
T&B	TOP AND BOTTOM
T.F.	TOP OF FRAME
T.G.	TOP OF GRATE
T.O.F.	TOP OF FOOTING
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.I.	UNITED ILLUMINATING
V	VERTICAL
VCP	VITRIFIED CLAY PIPE
WF	WETLAND FLAG

PROPERTY LINE
RIGHT-OF-WAY LINE
EASEMENT LINE
BASELINE
ELEVATION CONTOUR
ELEVATION
EDGE OF PAVEMENT
CURBING
GUIDE RAIL
TREE LINE
MAILBOX
SIGN
LIGHT POST
UTILITY POLE (W/GUY)
UTILITY POLE (W/LIGHT)
HYDRANT
CHAIN LINK FENCE
WIRE FENCE
WOOD FENCE
STONE WALL
HEDGEROW
WATERCOURSE
INLAND WETLAND BOUNDARY
TIDAL WETLAND BOUNDARY
COMMUNICATIONS
ELECTRIC
GAS MAIN/SERVICE
WATER MAIN/SERVICE
OVERHEAD UTILITY WIRE(S)
SANITARY SEWER ≤ 12" DIAMETER
SANITARY SEWER > 12" DIAMETER
STORM SEWER ≤ 12" DIAMETER
STORM SEWER > 12" DIAMETER
CATCH BASIN
MANHOLE
SURVEY CONTROL STATION
TEST PIT
BORING
PROBE
ASSESSOR'S MAP NO.-LOT NO.
SOIL TYPE
SOIL TYPE BOUNDARY
FLOODPLAIN BOUNDARY
LIMIT OF DISTURBANCE
LIMIT OF FILL
PAVEMENT REMOVAL LINE
SEDIMENTATION CONTROL BARRIER
SEDIMENTATION CONTROL AT DRAINAGE STRUCTURE

DECIDUOUS TREE
CONIFEROUS TREE
SHRUB
TREE TO BE REMOVED

REFERENCE:
NATIONAL COOPERATIVE SOIL SURVEY DATA FOR THE STATE OF CONNECTICUT, U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE

MAP UNIT SYMBOL

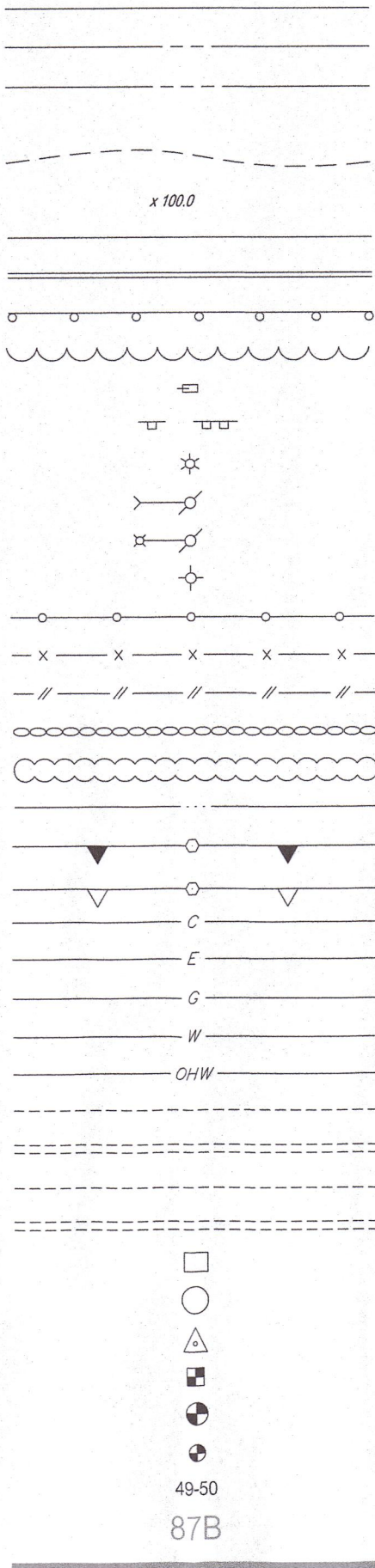
85B

MAP UNIT DESCRIPTION

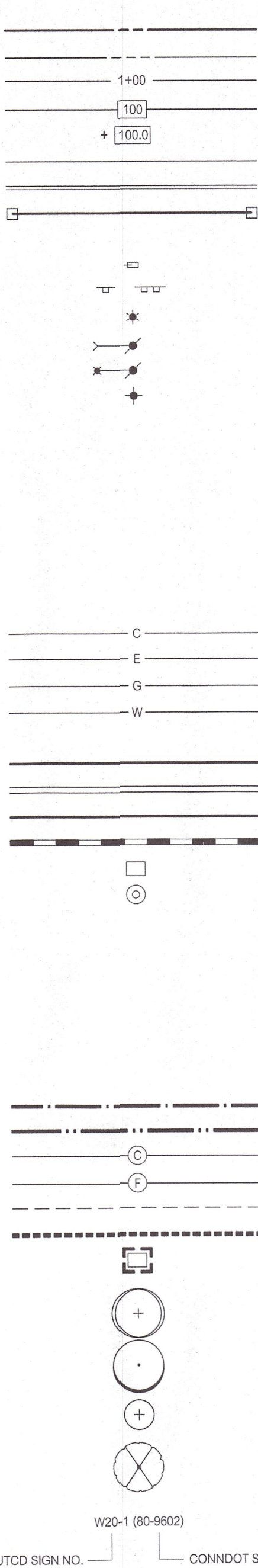
PAXTON AND MONTAUK FINE SANDY LOAMS,
3 TO 6 PERCENT SLOPES, VERY STONY

LEGEND

EXISTING



PROPOSED



SOIL TYPE LEGEND

REFERENCE:
NATIONAL COOPERATIVE SOIL SURVEY DATA FOR THE STATE OF CONNECTICUT, U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE

MAP UNIT SYMBOL

85B

MAP UNIT DESCRIPTION

PAXTON AND MONTAUK FINE SANDY LOAMS,
3 TO 6 PERCENT SLOPES, VERY STONY

GENERAL NOTES:

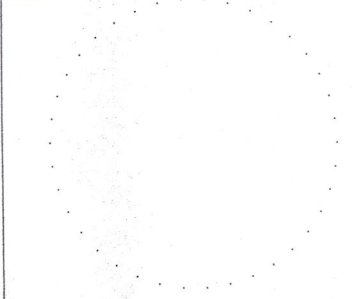
- THESE DRAWINGS ARE INTENDED TO BE USED FOR MUNICIPAL, STATE, AND/OR FEDERAL LAND USE PERMITTING PURPOSES AND ARE NOT INTENDED TO BE USED AS CONSTRUCTION DOCUMENTS.
 - PLANIMETRIC AND TOPOGRAPHIC INFORMATION DEPICTED HEREIN IS BASED ON FIELD SURVEYS CONDUCTED BY SUMMER HILL CIVIL ENGINEERS & LAND SURVEYORS, P.C. IN JANUARY 2024.
 - THE INLAND WETLAND BOUNDARIES DEPICTED HEREIN WERE DELINEATED BY ERIC DAVISON, REGISTERED SOIL SCIENTIST OF DAVISON ENVIRONMENTAL, LLC.
 - NORTH IS BASED ON AN ASSUMED PROJECT COORDINATE SYSTEM.
 - ELEVATIONS ARE REFERENCED TO AN ASSUMED PROJECT VERTICAL DATUM.
 - THE PROJECT SITE LAND PARCEL IS DEPICTED ON ASSESSORS MAP 74 AS LOT 5295.
 - THE PROJECT SITE IS LOCATED WITHIN A MEDIUM DENSITY RESIDENTIAL R-20 ZONING DISTRICT.
 - THE PROJECT SITE IS LOCATED WITHIN FLOOD ZONE X. REFERENCE: FEMA NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NEW LONDON COUNTY, CONNECTICUT, PANEL 344 OF 554, MAP NUMBER 05011C0344G EFFECTIVE DATE: 7-18-11.
 - SOIL TYPES AND/OR SOIL TYPE BOUNDARIES IDENTIFIED HEREIN HAVE BEEN REPRODUCED FROM NATIONAL COOPERATIVE SOIL SURVEY DATA FOR THE STATE OF CONNECTICUT, U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE.
 - UNDERGROUND UTILITIES, STRUCTURES AND OTHER FACILITIES DEPICTED HEREIN HAVE BEEN COMPILED FROM RECORD MAPPING AND FIELD LOCATIONS OF ABOVE GROUND FACILITIES AND MARKOUTS. ALL UNDERGROUND FACILITY LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE ONLY AND ALL FACILITIES MAY NOT BE SHOWN.
 - BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND FOR THE MAINTENANCE AND PROTECTION THEREOF. CONTACT THE CONNECTICUT "CALL BEFORE YOU DIG" CLEARANCE CENTER (1-800-922-4455) AT LEAST TWO WORKING DAYS PRIOR TO THE START OF WORK TO ESTABLISH AND HAVE MARKED ON THE GROUND THE LOCATION OF ALL UNDERGROUND UTILITIES. NOTIFY THE ENGINEER IN THE EVENT THAT A UTILITY IS LOCATED DURING THE PROGRESS OF THE WORK THAT IS NOT INDICATED ON OR IS NOT IN ACCORDANCE WITH THE DRAWINGS.
- UTILITY COMPANY CONTACTS:
- | | |
|--|----------------|
| CABLE TELEVISION - COMCAST OF CONNECTICUT, INC. | (860) 505-3331 |
| COMMUNICATIONS - FRONTIER COMMUNICATIONS OF CONNECTICUT | (203) 238-5000 |
| COMMUNICATIONS - LIGHT TOWER FIBER NETWORKS I, LLC | (508) 616-7818 |
| ELECTRIC - EVERSOURCE ENERGY | (860) 665-4733 |
| GAS - YANKEE GAS SERVICES | (203) 592-3494 |
| SANITARY SEWER - TOWN OF WATERFORD UTILITIES COMMISSION DEPARTMENT | (860) 444-9086 |
| WATER - CITY OF NEW LONDON DEPARTMENT OF PUBLIC UTILITIES | (860) 437-6365 |
- IN GENERAL, EXISTING CONDITIONS AND FEATURES ARE DEPICTED IN SCREENED GRAPHICS AND TITLECASE LETTERING AND PROPOSED WORK IS DEPICTED IN BOLD GRAPHICS AND UPPER CASE LETTERING.
 - THE STANDARD SPECIFICATIONS AS DEFINED IN THE CONTRACT DOCUMENTS ARE THE "STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818", 2020, INCLUDING SUPPLEMENTAL SPECIFICATIONS DATED JANUARY, 2023.
 - PRIOR TO THE START OF WORK, THOROUGHLY REVIEW THE CONTRACT DOCUMENTS, THE SITE OF THE WORK AND ALL EXISTING CONDITIONS AND FEATURES. NOTIFY THE ENGINEER OF DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS AND FEATURES IN THE FIELD.
 - ADHERE TO THE REGULATIONS AND ORDINANCES OF THE TOWN OF WATERFORD, ALL APPLICABLE STATE AND FEDERAL REGULATORY AUTHORITIES, THE PROVISIONS OF THE CONTRACT DOCUMENTS, AND ALL APPROVALS AND/OR PERMITS ATTACHED THERETO.
 - PROVIDE EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE DRAWINGS OR AS ORDERED BY THE ENGINEER. THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROLS SHALL BE THOSE OUTLINED IN THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.
 - MATERIAL AND EQUIPMENT STORAGE AREA LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
 - VEHICLE AND EQUIPMENT FUELING AND MAINTENANCE OPERATIONS SHALL BE PERFORMED ONLY IN AREAS APPROVED BY THE ENGINEER.
 - IN THE EVENT OF A CONTAMINANT RELEASE, IMMEDIATELY NOTIFY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION EMERGENCY RESPONSE AND SPILL PREVENTION DIVISION (860-424-3338 OR 866-337-7745) AND THE TOWN OF WATERFORD FIRE MARSHALS OFFICE (860-440-0544).
 - COORDINATE ALL UTILITY WORK WITH THE RESPECTIVE UTILITY COMPANIES.
 - BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC WITHIN AND ADJACENT TO WORK AREAS.
 - BE RESPONSIBLE FOR THE CONTROL OF DUST RESULTING FROM CONSTRUCTION OPERATIONS.
 - PROTECT ALL EXISTING CONDITIONS AND FEATURES WHERE NEW CONSTRUCTION IS NOT SHOWN ON THE DRAWINGS.
 - PRIOR TO THE START OF WORK, SCHEDULE A MEETING WITH THE ARCHITECT AND ENGINEER TO REVIEW EXISTING TREES AND VEGETATION TO BE PROTECTED AND TO BE REMOVED.
 - SAWCUT PAVEMENTS AT THE LINES SHOWN ON THE DRAWINGS. WHERE NEW BITUMINOUS CONCRETE PAVEMENT IS TO BE PLACED AGAINST EXISTING PAVEMENT, CLEAN THE FACE OF EXISTING PAVEMENT AND APPLY LIQUID BITUMEN. MATCH EXISTING ADJACENT PAVEMENT SURFACE ELEVATIONS WITH NEW PAVEMENT.
 - ADJUST MANHOLE AND CATCH BASIN FRAMES, HANDHOLES AND VALVE BOXES TO MATCH FINISHED ELEVATIONS.
 - THE SUBGRADE OF DISTURBED GROUND SURFACES NOT NOTED TO BE SURFACED OTHERWISE SHALL RECEIVE A 6" THICKNESS OF TOPSOIL UPON WHICH TURF SHALL BE ESTABLISHED.

PERMIT DRAWINGS

REVISIONS			TITLE:
NO.	DATE	DESCRIPTION	
REVISIONS			


The Williams School
ATHLETIC COMPLEX
122 BLOOMINGDALE ROAD
WATERFORD, CONNECTICUT

SEAL:



PREPARED BY:

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

PROJECT:

ATHLETICS TEAM AND FACILITIES BUILDING

DATE:

4-1-24

SCALE:

NONE

DESIGNED:

MJO

CHECKED:

LJM

GENERAL NOTES, ABBREVIATIONS,
AND LEGEND

FIELD BOOK:

-

PROJECT NO.:

23-43

SHEET NO.:

C0.2

1. NARRATIVE AND NOTES

A. PROJECT NARRATIVE

THE PROJECT CONSISTS OF THE CONSTRUCTION OF AN ATHLETICS TEAM AND FACILITIES BUILDING AND ASSOCIATED DRIVEWAY, BUILDING UTILITY SERVICES, STORM DRAINAGE, EXTERIOR LIGHTING, AND LANDSCAPE IMPROVEMENTS.

THE WORK ASSOCIATED WITH THE PROJECT INCLUDES EROSION AND SEDIMENT CONTROL, SITE PREPARATION, EXCAVATION, GRADING, STORM DRAINAGE, WATER, SANITARY, POWER, AND COMMUNICATIONS UTILITY SERVICE, DRIVEWAY, EXTERIOR LIGHTING, AND LANDSCAPE AND TURF ESTABLISHED CONSTRUCTION.

THE TOTAL AREA OF LAND DISTURBANCE ASSOCIATED WITH THE COMPLETE PROJECT CONSTRUCTION ACTIVITIES IS APPROXIMATELY 0.7 ACRES.

THE NATIONAL COOPERATIVE SOIL SURVEY SOIL TYPE IN THE VICINITY OF THE PROJECT SITE IS BSB PAXTON AND MONTAUK FINE SANDY LOAMS.

THE PROJECT SITE CONTAIN AREAS OF STEEP SLOPES (> 25%).

THE PROJECT SITE IS NOT LOCATED WITHIN THE COASTAL BOUNDARY.

THE PROJECT SITE IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA ZONE.

THE PROJECT SITE IS LOCATED WITHIN THE THAMES RIVER SUBREGIONAL DRAINAGE BASIN (HUC NUMBER 3000).

THE PROJECT SITE IS NOT LOCATED WITHIN A PUBLIC WATER SUPPLY WATERSHED AREA OR AQUIFER PROTECTION AREA.

THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION NATURAL DIVERSITY DATABASE AREA MAP FOR THE TOWN OF WATERFORD DOES NOT INDICATE AREAS IDENTIFYING THE APPROXIMATE LOCATION OF STATE AND FEDERAL LISTED SPECIES AND CRITICAL HABITAT ON OR IN THE VICINITY OF THE PROJECT SITE.

PROJECT LOCATION:

THE PROJECT SITE IS LOCATED IN THE EAST-CENTRAL PORTION OF THE TOWN OF WATERFORD ON THE WEST SIDE OF BLOOMINGDALE ROAD APPROXIMATELY 0.8 MILES NORTH OF THE BLOOMINGDALE ROAD-GALLIOWS LANE INTERSECTION.

PROJECT OWNER:

THE WILLIAMS SCHOOL
P.O. BOX 1310
NEW LONDON, CONNECTICUT 06320
860-439-2786

CONTACT PERSON:

MARK ADLER, HEAD OF SCHOOL
THE WILLIAMS SCHOOL
P.O. BOX 1310
NEW LONDON, CONNECTICUT 06320
860-439-2786

PERMIT REQUIREMENTS:

THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT ARE SUBJECT TO THE REQUIREMENTS OF APPROVALS AND PERMITS OF THE TOWN OF WATERFORD CONSERVATION COMMISSION AND PLANNING AND ZONING COMMISSION, AND THE LEDGE LIGHT HEALTH DISTRICT.

CONSTRUCTION SCHEDULE AND SEQUENCE:

THE PLANNED START DATE FOR THE PROJECT IS SUMMER 2024. IT IS ANTICIPATED THAT THE DURATION OF SITE CONSTRUCTION ACTIVITIES WILL BE APPROXIMATELY 6 MONTHS.

THE GENERAL SEQUENCE OF SITE CONSTRUCTION ACTIVITIES WILL BE AS FOLLOWS:

1. EQUIPMENT MOBILIZATION.

2. INSTALLATION OF TEMPORARY EROSION AND SEDIMENT CONTROLS.

3. SITE PREPARATION AND CLEARING AND GRUBBING OPERATIONS.

4. MASS EARTHWORK OPERATIONS.

5. BUILDING FOUNDATION CONSTRUCTION.

6. STORM DRAINAGE SYSTEM CONSTRUCTION.

7. BUILDING UTILITY SERVICE CONSTRUCTION.

8. DRIVEWAY CONSTRUCTION.

9. EXTERIOR LIGHTING CONSTRUCTION.

10. LANDSCAPE CONSTRUCTION.

11. TOPSOIL PLACEMENT AND TURF ESTABLISHMENT.

12. RESTORATION OF DISTURBED AREAS.

13. FINAL CLEAN UP AND REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROLS.

B. EROSION AND SEDIMENT CONTROL STANDARDS AND RESPONSIBILITIES

THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROLS SHALL BE THOSE OUTLINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST REVISION. THE TYPES AND LOCATIONS OF EROSION AND SEDIMENT CONTROLS DEPICTED ON THE DRAWINGS ARE THE MINIMUM TYPES AND LOCATIONS REQUIRED. THE TYPES OF CONTROLS REQUIRED AND THEIR LOCATIONS MAY VARY DURING THE VARIOUS PHASES OF CONSTRUCTION OF THE PROJECT AND THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL REFERENCE THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST REVISION FOR SPECIFIC DESIGN CRITERIA, CONSTRUCTION DETAILS, AND MAINTENANCE REQUIREMENTS FOR THE VARIOUS TYPES OF EROSION AND SEDIMENT CONTROLS REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING, AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROLS FOR THE PROJECT.

C. CONTINGENCY PLAN

A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE CONTACT PERSON DESIGNATED HEREIN WITH THE NAMES AND TELEPHONE NUMBERS OF THE RESPONSIBLE PERSON(S) TO BE CONTACTED IN THE EVENT OF AN EROSION AND/OR SEDIMENTATION PROBLEM.

THE CONTRACTOR SHALL AT ALL TIMES KEEP SUFFICIENT ADDITIONAL GEOTEXTILE SILT FENCE AND/OR STRAW BAILE BARRIER ON THE PROJECT SITE TO CONTROL, LINESERIES EROSION AND/OR SEDIMENTATION PROBLEMS. IN THE EVENT OF A PROBLEM, THE CONTRACTOR SHALL PROMPTLY STABILIZE THE PROBLEM AND CONTAIN ANY SEDIMENT AND THEN NOTIFY THE TOWN OF WATERFORD PLANNING AND DEVELOPMENT DEPARTMENT (860-444-5913).

D. GENERAL GUIDELINES:

1. PRIOR TO THE START OF WORK, INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE DRAWINGS OR AS ORDERED BY THE ENGINEER.

2. ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED CONTINUOUSLY AND INSPECTED ON A PERIODIC BASIS AS DEFINED IN THE GUIDELINES FOR EACH TYPE OF CONTROL, AND SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. IN ADDITION, ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED PRIOR TO AND DURING MAJOR RAINFALL EVENTS.

3. LIMIT THE DISTURBANCE OF LAND TO THE LIMITS OF DISTURBANCE REQUIRED TO ACCOMPLISH THE WORK SHOWN ON THE DRAWINGS.

4. PRESERVE EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THE DRAWINGS TO BE PRESERVED AND TAKE REASONABLE CARE TO PROTECT SUCH EXISTING VEGETATION.

5. WHERE PRACTICABLE, PLAN CONSTRUCTION OPERATIONS SO AS TO LIMIT THE AREAS OF EXPOSED SOIL TO AREAS ACTIVELY UNDER CONSTRUCTION. TAKE REASONABLE CARE TO LIMIT THE PERIOD OF EXPOSURE OF DISTURBED AREAS AND INSTALL PERMANENT VEGETATIVE MEASURES AS SOON AS IS PRACTICABLE.

6. WATER FROM DRAINAGE OPERATIONS SHALL NOT BE DISCHARGED DIRECTLY TO ANY WETLAND OR WATERCOURSE. SUCH WATER SHALL BE DISCHARGED TO AN APPROVED SEDIMENT BASIN AND/OR FILTER DEVICE, OR TO A STORM DRAINAGE SYSTEM ONLY WHEN APPROVED.

7. ADEQUATE PROVISIONS SHALL BE TAKEN TO PROTECT ALL EXPOSED CUT AND FILL SLOPES FROM SURFACE WATER FLOW DAMAGE AND EROSION.

8. BE RESPONSIBLE FOR THE CONTROL OF DUST AND OTHER PARTICULATE MATTER RESULTING FROM CONSTRUCTION OPERATIONS.

9. TEMPORARY MATERIAL STOCKPILES SHALL BE PROTECTED FROM BOTH WATER AND WIND INDUCED EROSION.

10. BE RESPONSIBLE FOR MONITORING NOAA NATIONAL WEATHER SERVICE WEATHER FORECASTS AND TAKING PROPER PRECAUTIONS TO PREVENT EROSION AND SEDIMENTATION IN ADVANCE OF RAINFALL EVENTS AND REMOVING OR SECURING ALL EQUIPMENT AND MATERIALS IN ADVANCE OF ISSUED FLOOD WARNINGS.

2. VEGETATIVE SOIL COVER

a) TEMPORARY SEEDING INSTALLATION REQUIREMENTS

i) GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, BALE BARRIER TIGHTLY ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE REQUIREMENTS FOR LAND GRADING.

ii) INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT BASINS AND GRASSED WATERWAYS.

b) SEEDBED PREPARATION

i) APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

SOIL TEXTURE	TONS/AC	LBS/1,000 SQUARE FEET
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

REFER TO DRAWINGS FOR SOIL TEXTURES AT THE SITE.

ii) SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS. SPRING SEEDINGS OF ALL SEED LEGUMES IS RECOMMENDED. HOWEVER, LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 1 CAN BE MADE. WHEN CROWN VETCH IS SEEDING IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED), THE RECOMMENDED SEEDING DATES ARE:

	MARCH 1 THROUGH JUNE 15	AUGUST 1 THROUGH OCTOBER 1
ANNUAL RYE GRASS 40 LBS/ACRE, 1 LBS/1,000 SF		

iii) WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER LIME AND SEED.

iv) APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER. HYDROSEEDINGS WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10 PERCENT WHEN HYDROSEEDING.

v) SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS. SPRING SEEDINGS OF ALL SEED LEGUMES IS RECOMMENDED. HOWEVER, LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 1 CAN BE MADE. WHEN CROWN VETCH IS SEEDING IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED), THE RECOMMENDED SEEDING DATES ARE:

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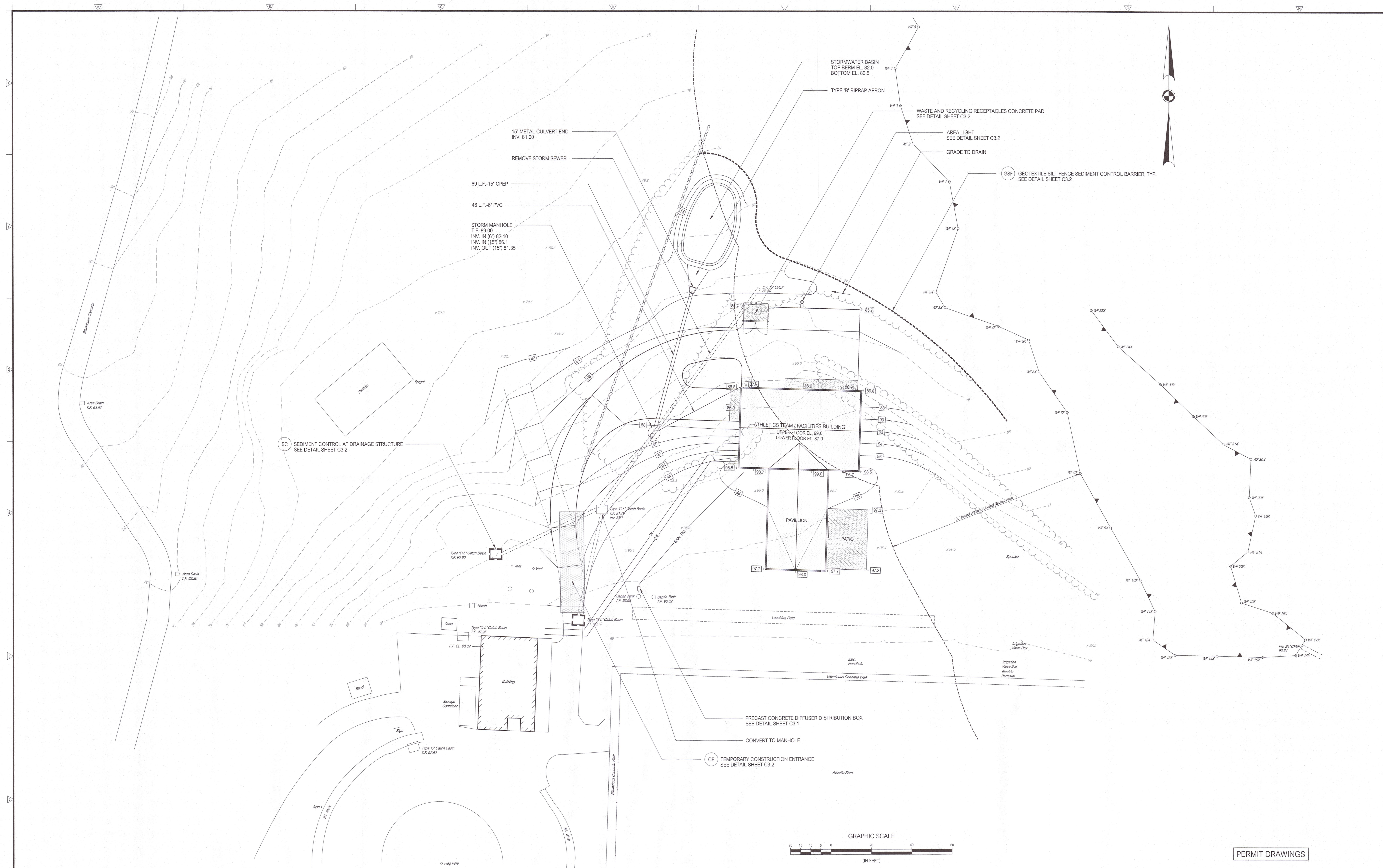
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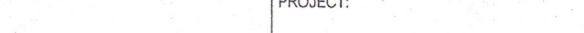
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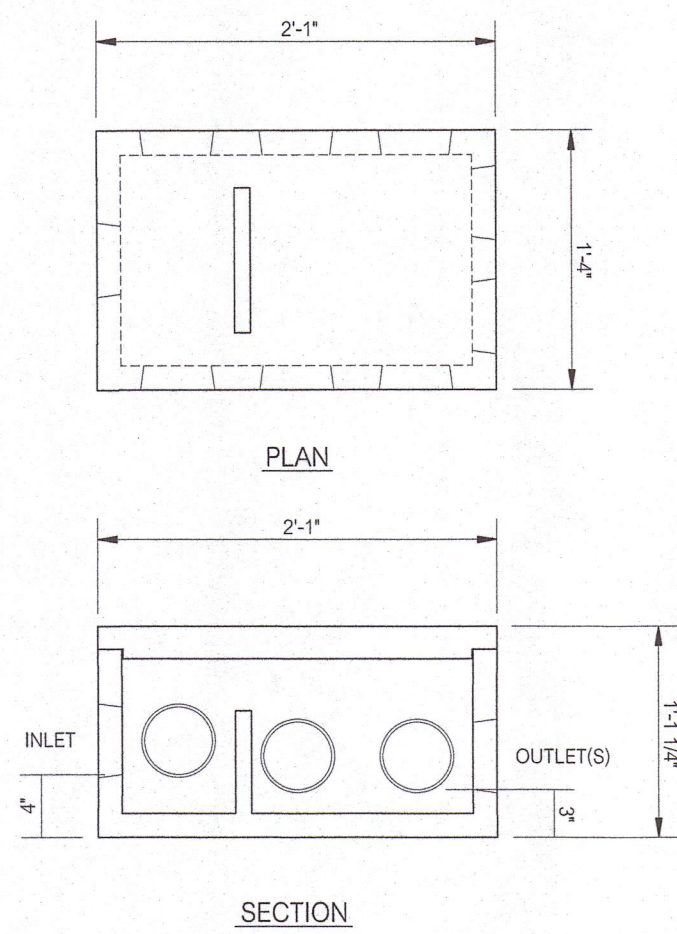
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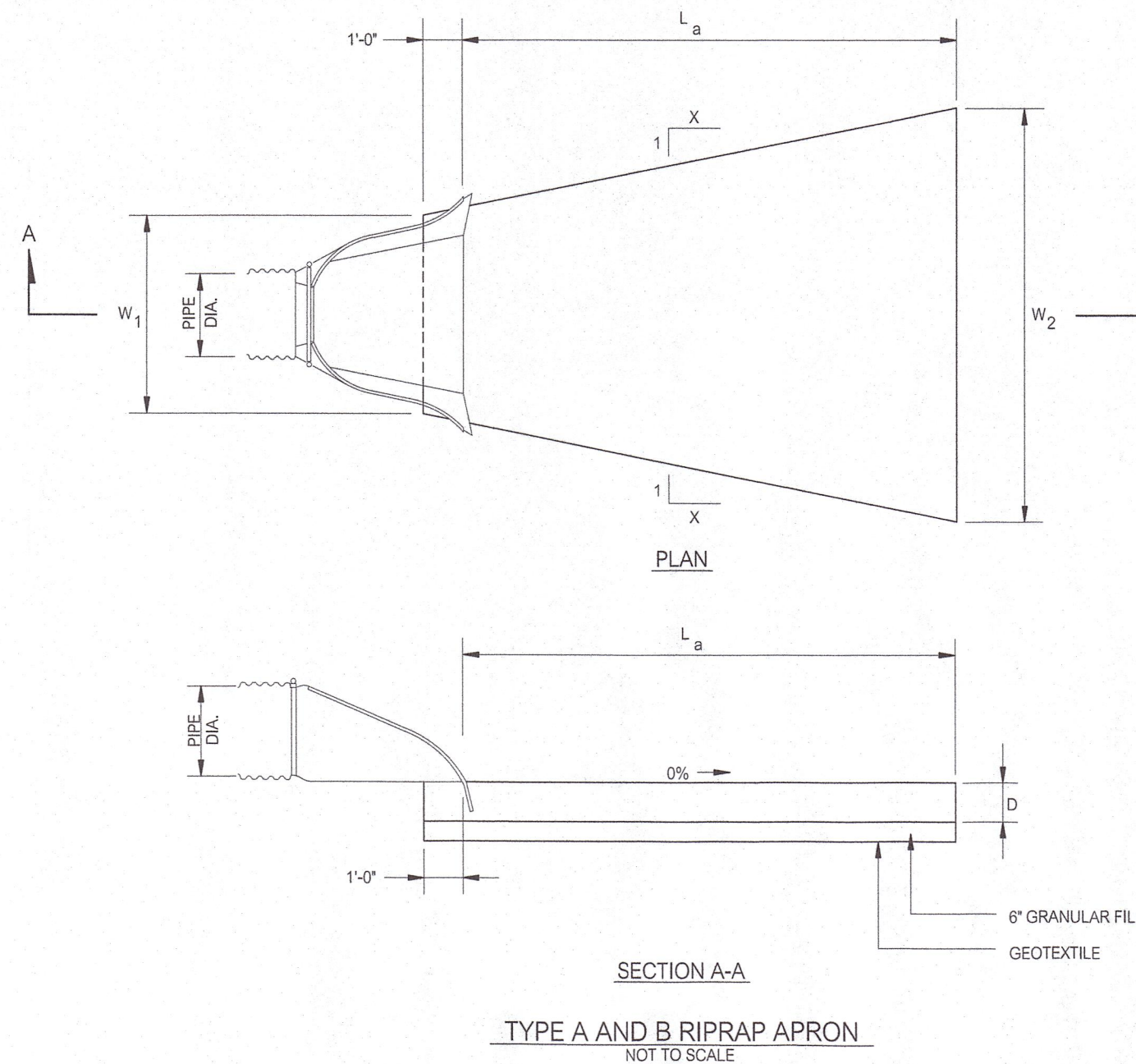
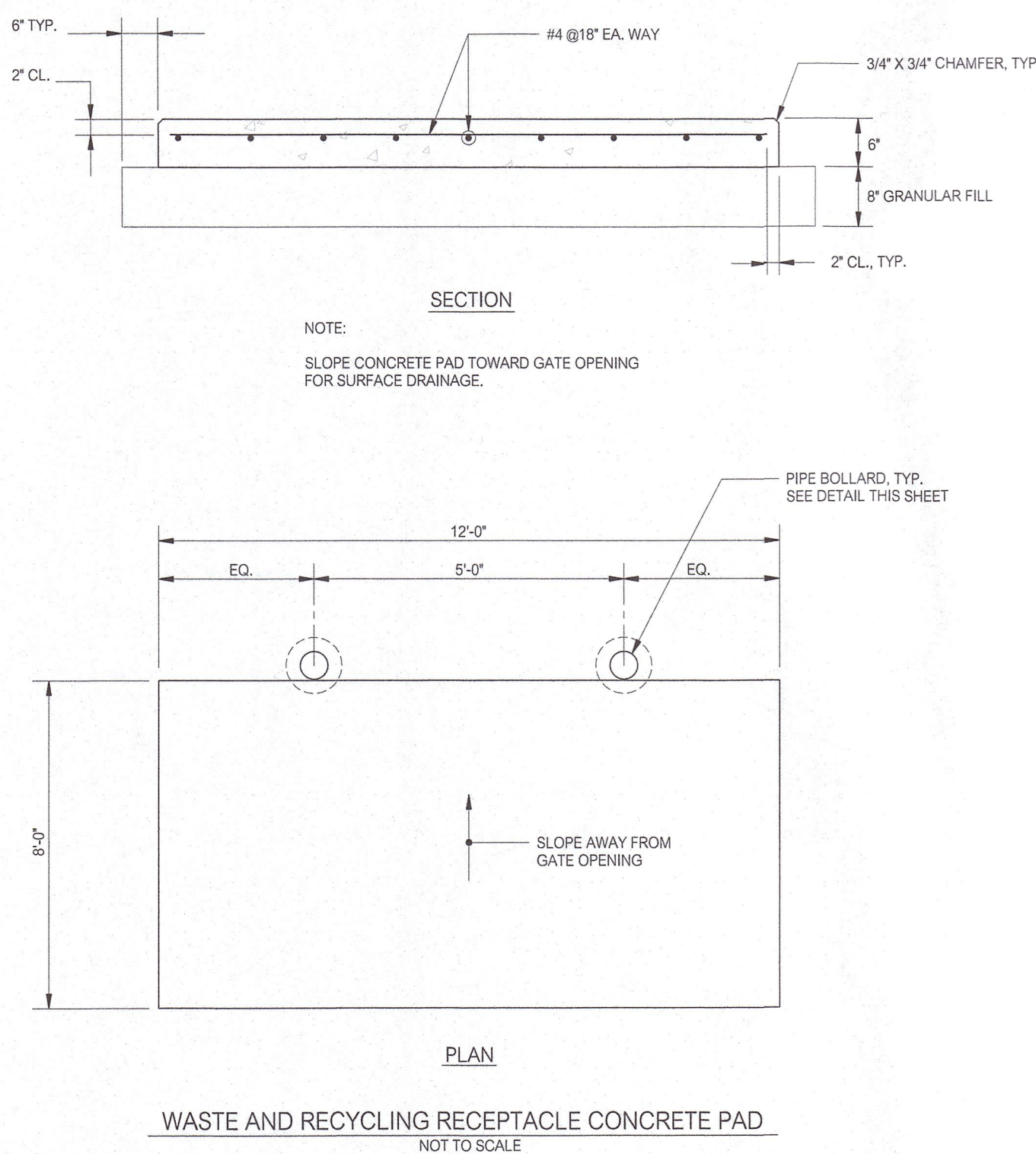
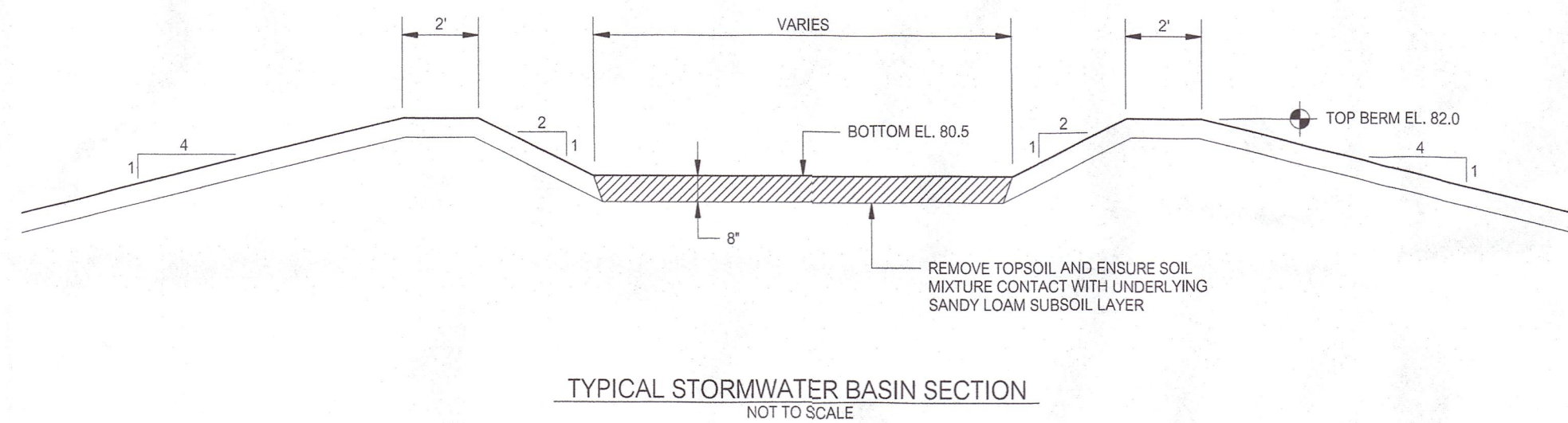
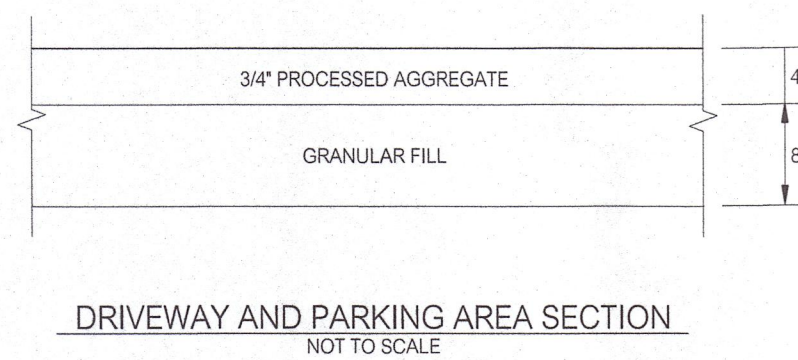
PERMIT DRAWINGS

REVISIONS:			TITLE:																	
			W The Williams School ATHLETIC COMPLEX 122 BLOOMINGDALE ROAD WATERFORD, CONNECTICUT			SEAL: 			PREPARED BY: Summer Hill Civil Engineers & Land Surveyors, P.C. 60 Wall Street P.O. Box 708 Madison, Connecticut 06443-0708 Telephone: (203) 245-0722			PROJECT: ATHLETICS TEAM AND FACILITIES BUILDING								
<table><tr><td>NO.</td><td>DATE</td><td>DESCRIPTION</td></tr><tr><td colspan="3">REVISIONS</td></tr></table>			NO.	DATE	DESCRIPTION	REVISIONS						DATE: 4-1-24 SCALE: 1"=20' DESIGNED: MJO CHECKED: J.M.			SHEET: GENERAL PLAN FIELD BOOK:			SHEET NO.: C2.1		
NO.	DATE	DESCRIPTION																		
REVISIONS																				
						PROJECT NO.: 23-43														

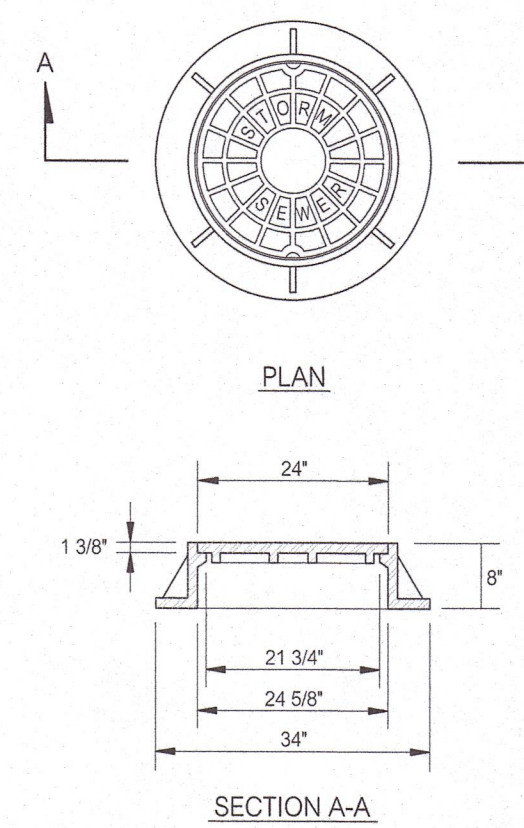
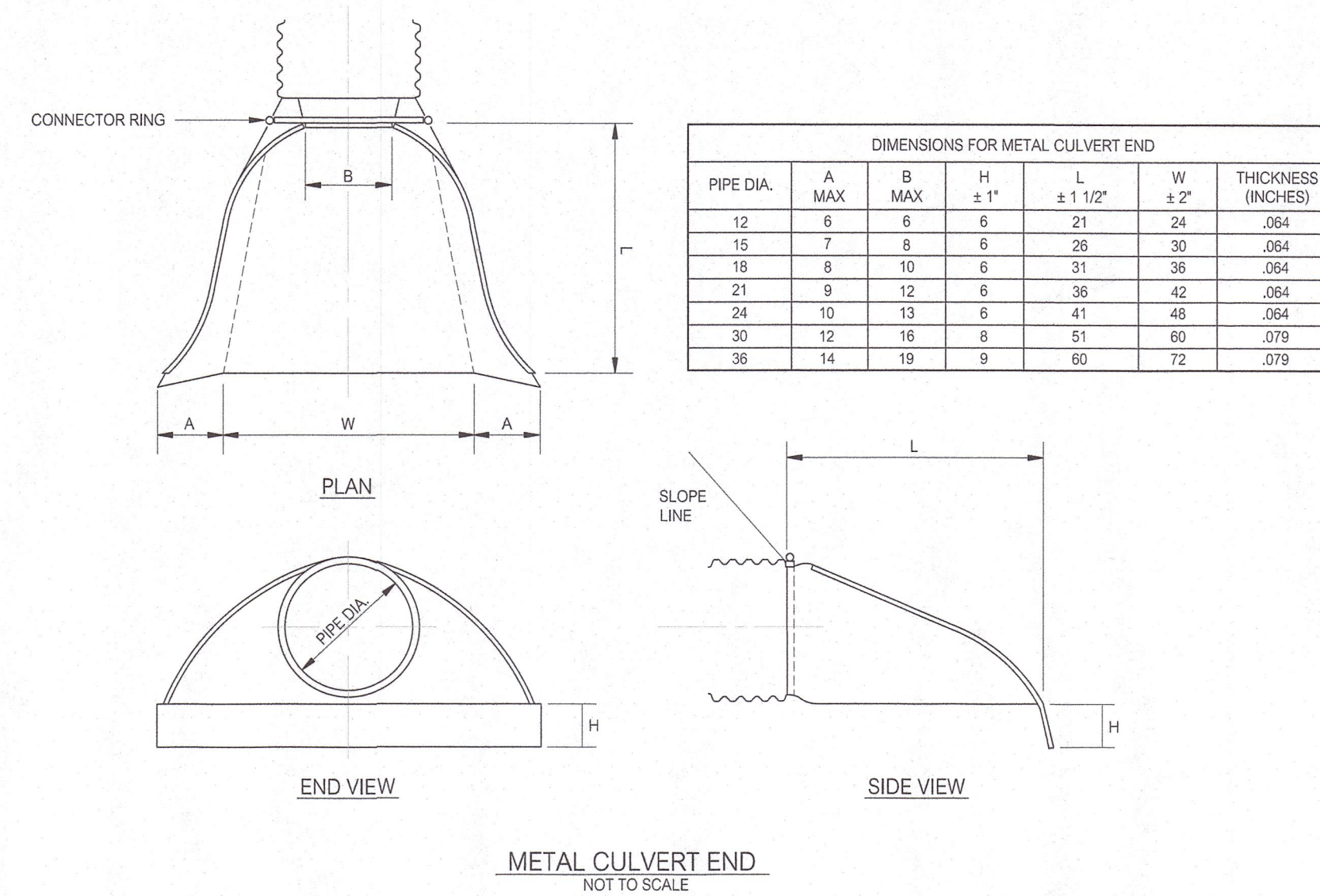


PRECAST CONCRETE DIFFUSER DISTRIBUTION BOX
NOT TO SCALE

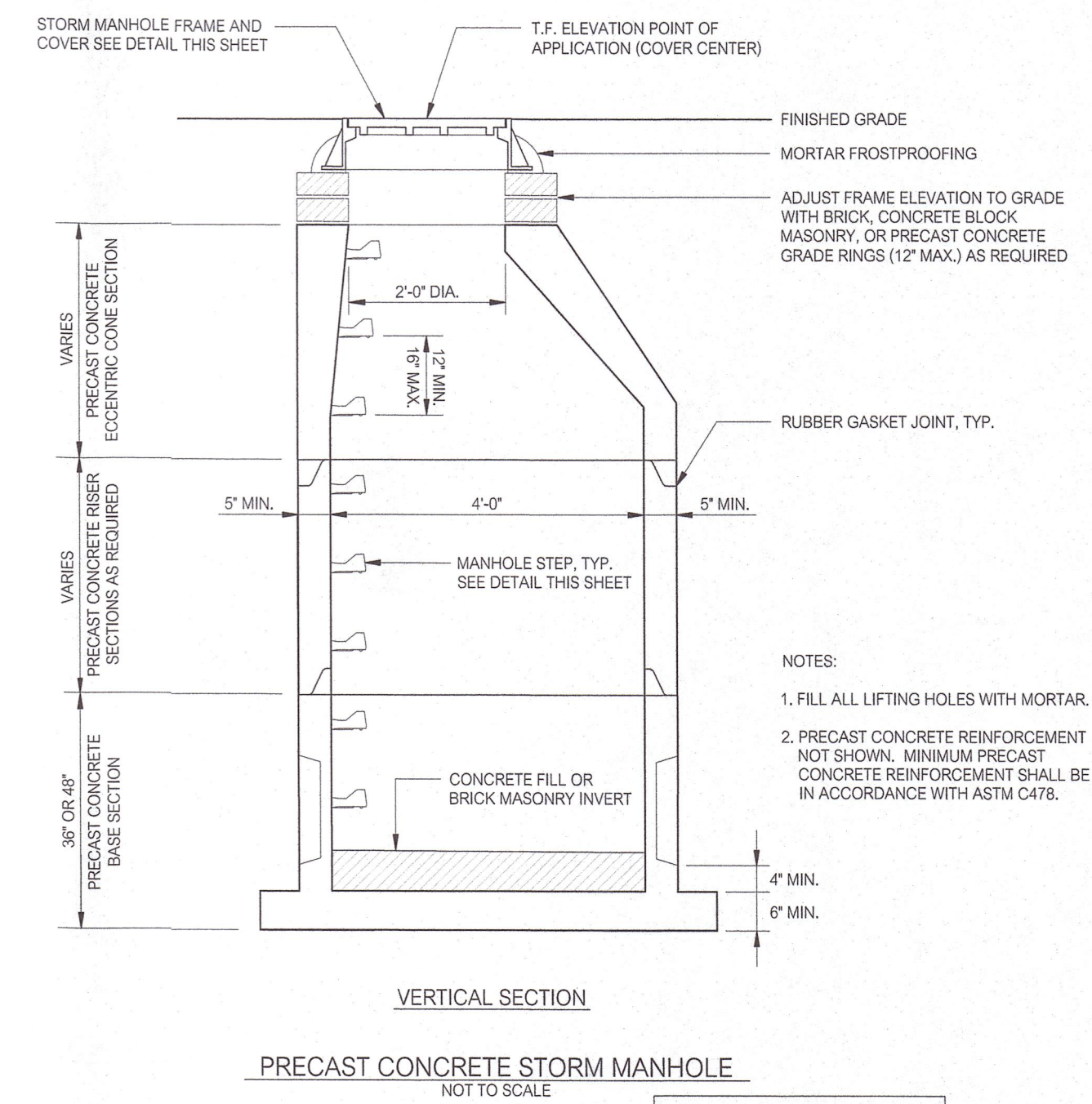
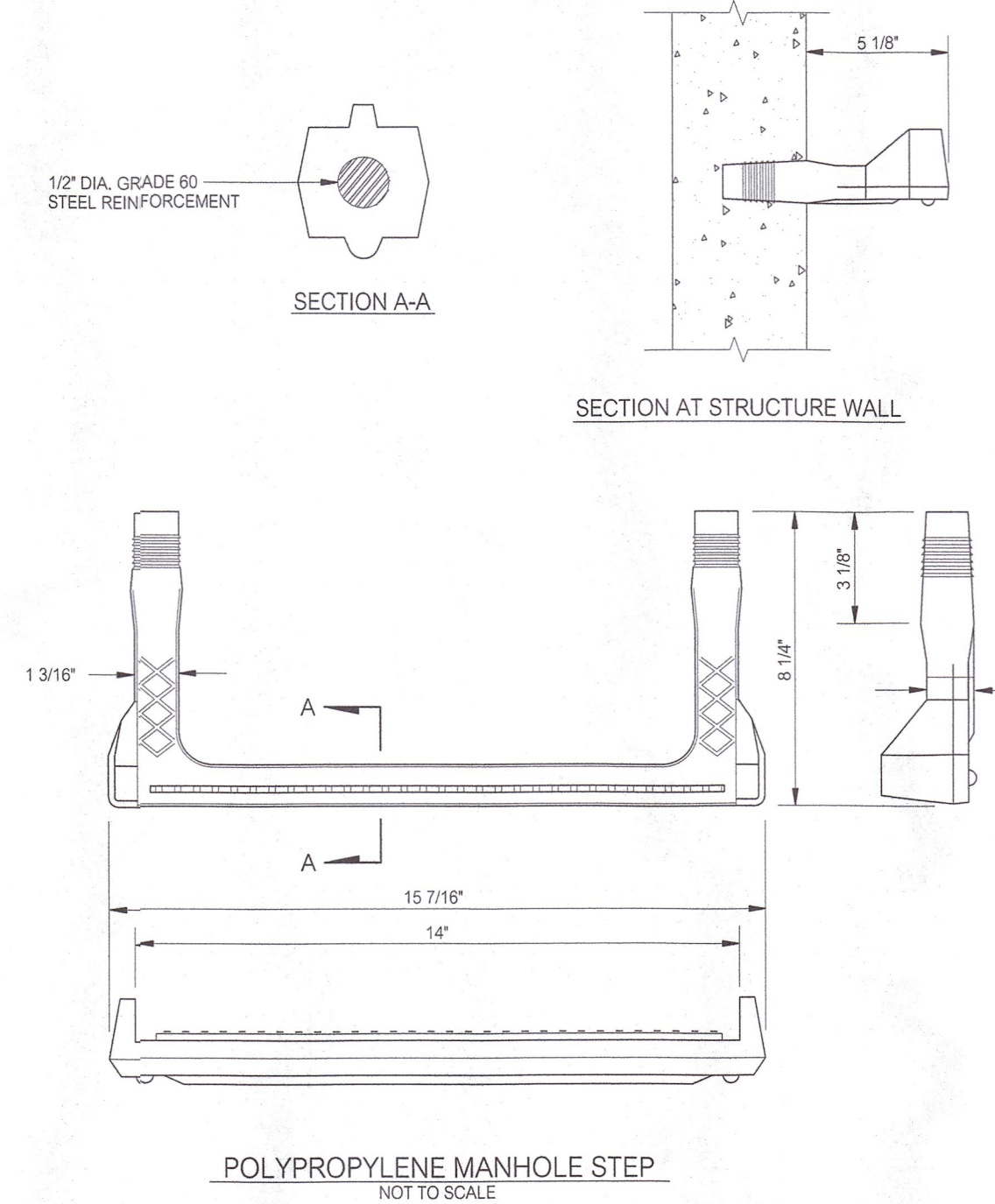
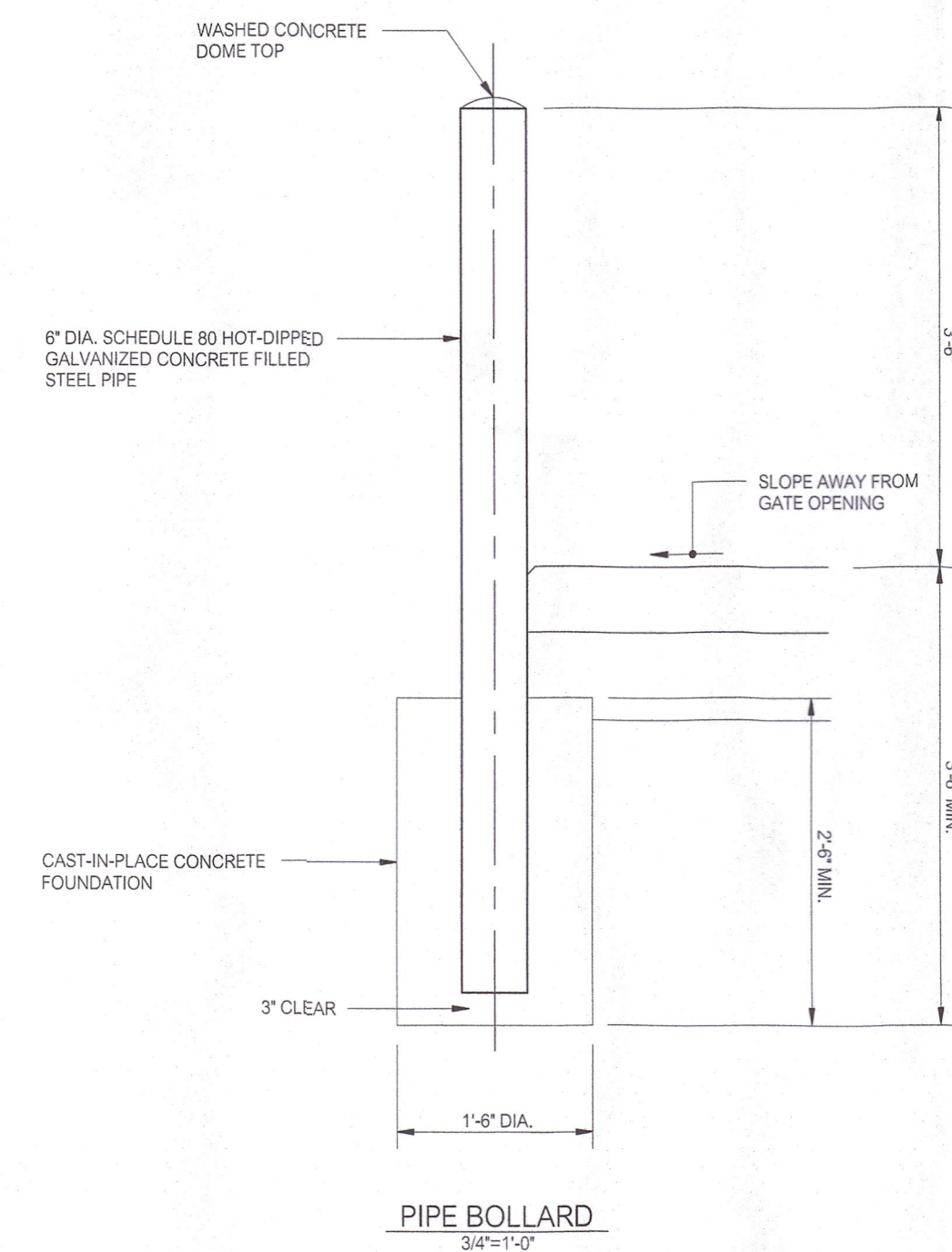
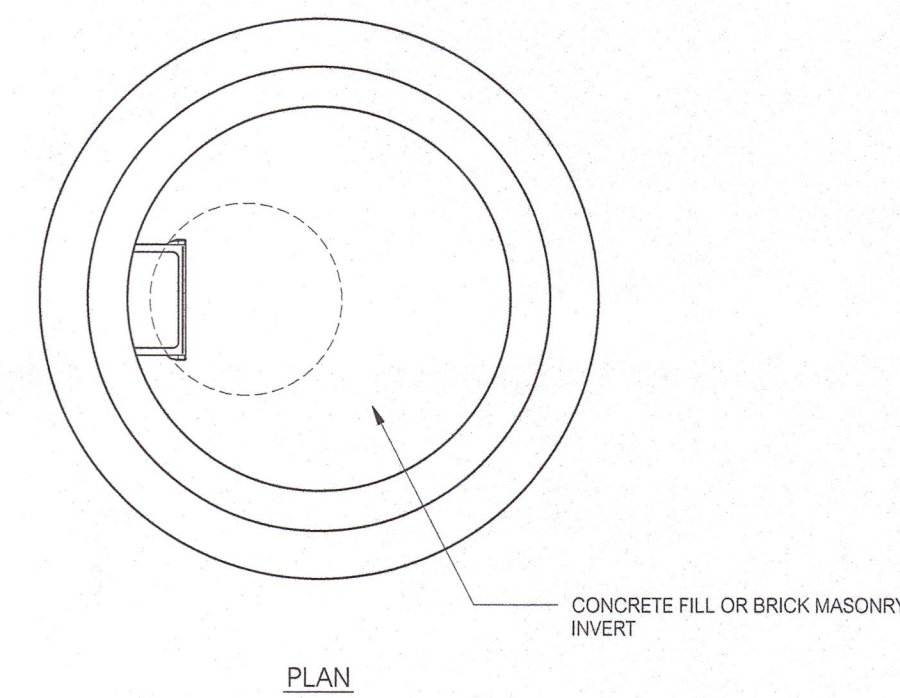
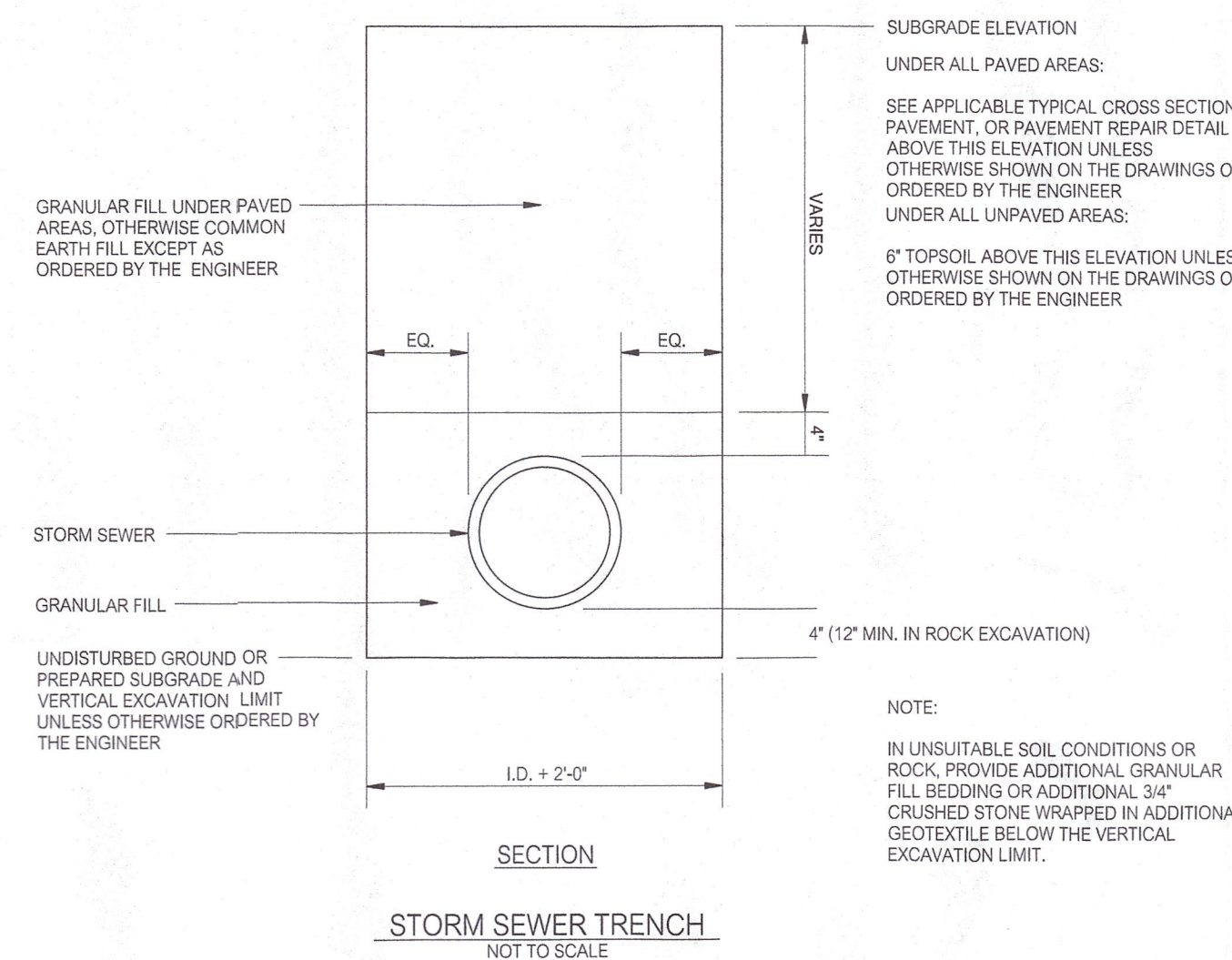
- NOTES:
1. SET DISTRIBUTION BOX LEVEL ON A 6" THICKNESS CRUSHED STONE BASE.
 2. INSTALL 45° ELBOW ON FORCE MAIN WITHIN DISTRIBUTION BOX TO DIRECT EFFLUENT DISCHARGE DOWNWARD.
 3. DISTRIBUTION BOX DIMENSIONS SHOWN ARE BASED ON TYPICAL PRECAST CONCRETE DISTRIBUTION BOX DESIGNS OF UNITED CONCRETE PRODUCTS, INC., WALLINGFORD, CONNECTICUT. THE DIMENSIONS OF EQUIVALENT DISTRIBUTION BOXES OF OTHER PRECAST CONCRETE MANUFACTURERS MAY VARY FROM THOSE SHOWN.
 4. CONCRETE REINFORCEMENT NOT SHOWN.



PIPE DIA. (IN)	L _a (FT)	W ₁ (FT)	W ₂ (FT)	X (FT)	D (FT)	RIPRAP TYPE
12	10	3	10	2.8	1.0	MODIFIED
15	10	4	11	3.1	1.0	MODIFIED
18	12	5	13	3.0	1.0	MODIFIED
24	12	6	15	2.7	1.0	MODIFIED
36	14	9	19	2.8	1.5	INTERMEDIATE



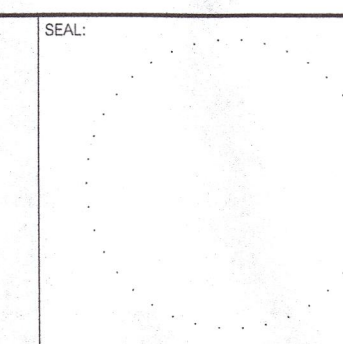
- NOTES:
1. HEAVY DUTY MANHOLE FRAME AND COVER: PATTERN NUMBER 1007 CAMPBELL FOUNDRY COMPANY, NORTH HAVEN, CONNECTICUT OR APPROVED EQUAL.
 2. THE DESIGNATION "STORM SEWER" SHALL BE CAST IN THE MANHOLE COVER.



PERMIT DRAWINGS

REVISIONS			TITLE:
NO.	DATE	DESCRIPTION	

The Williams School
ATHLETIC COMPLEX
122 BLOOMINGDALE ROAD
WATERFORD, CONNECTICUT

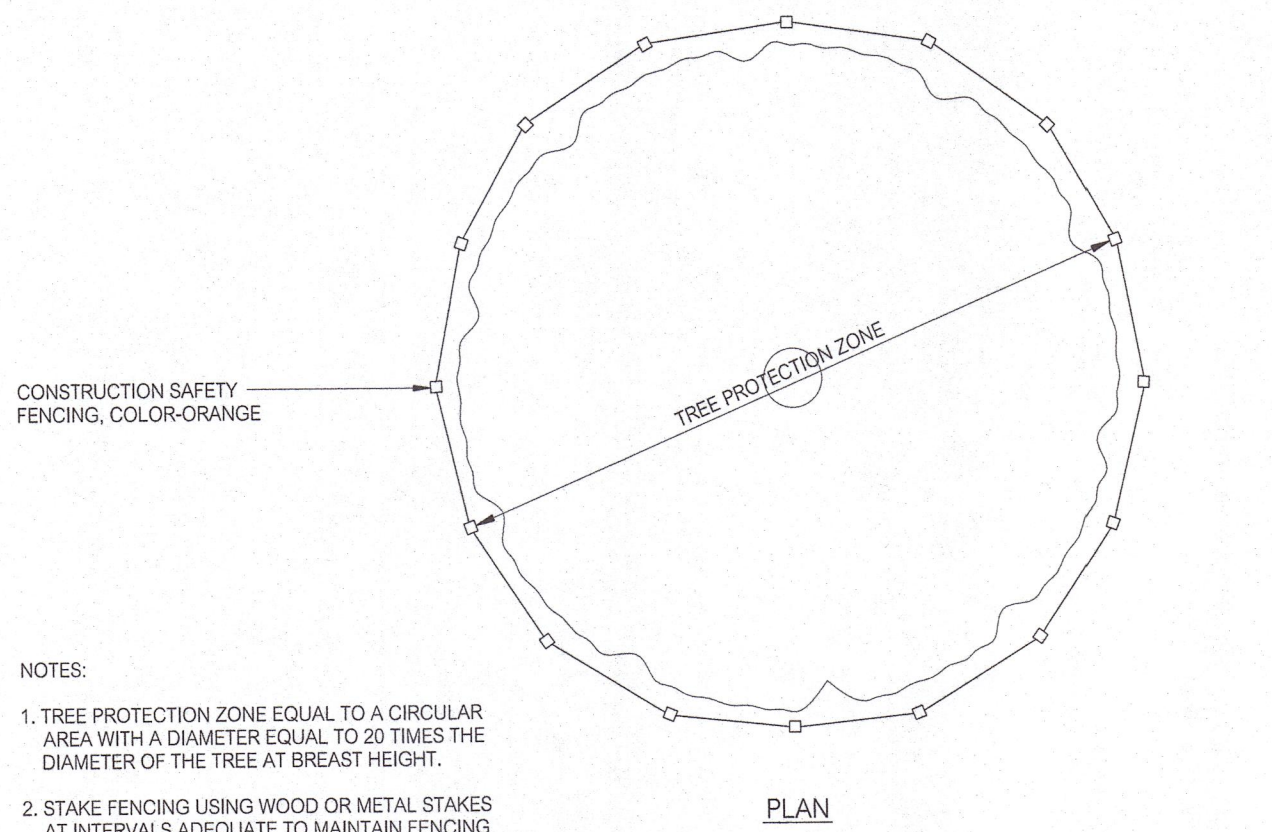


PREPARED BY:
Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
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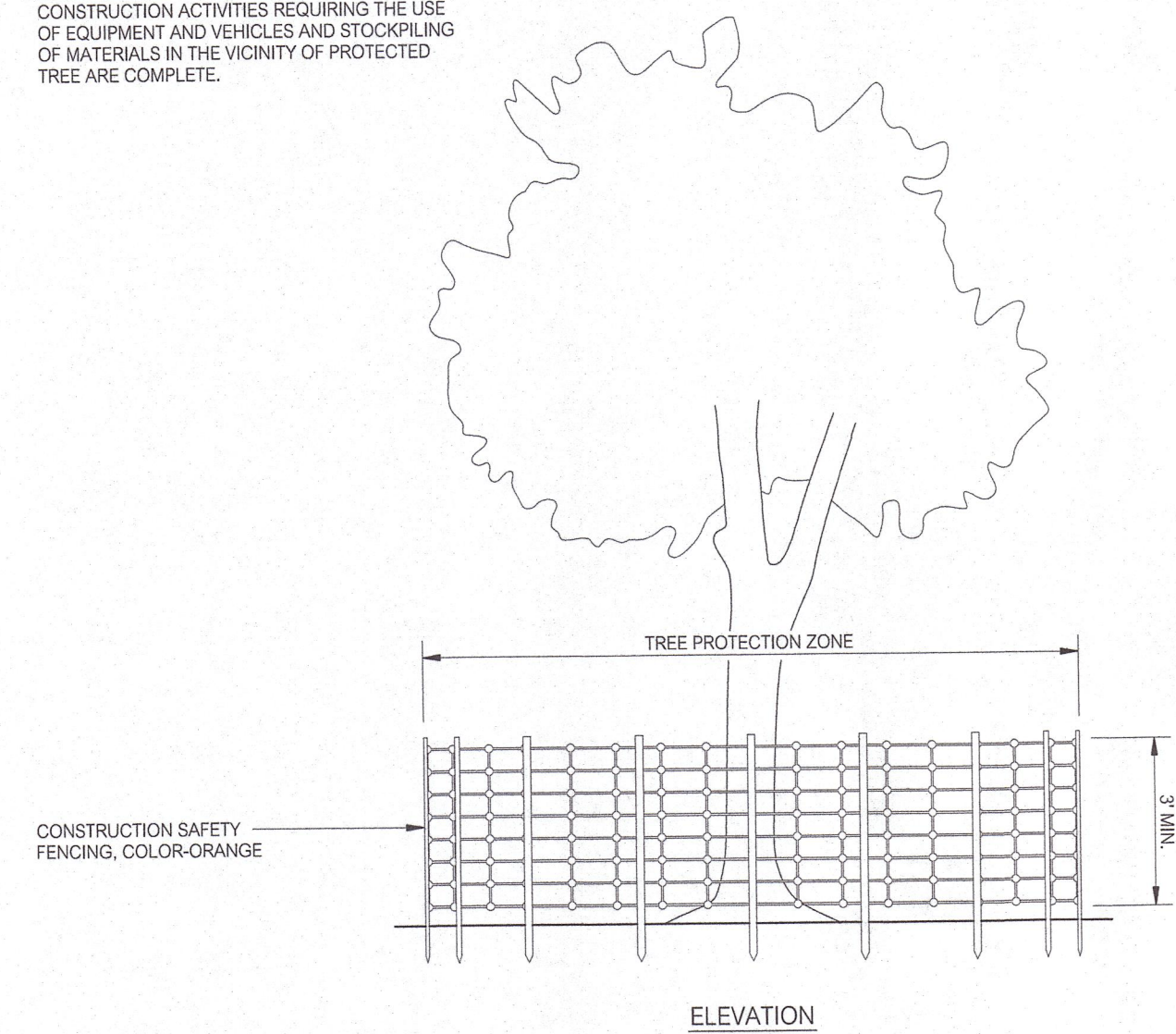
PROJECT: ATHLETICS TEAM AND FACILITIES BUILDING			
DATE: 4-1-24	SHEET:		SHEET NO.:
SCALE: AS NOTED			
DESIGNED: MJD			
CHECKED: LJM	FIELD BOOK:	PROJECT NO.:	
		23-43	

DETAILS

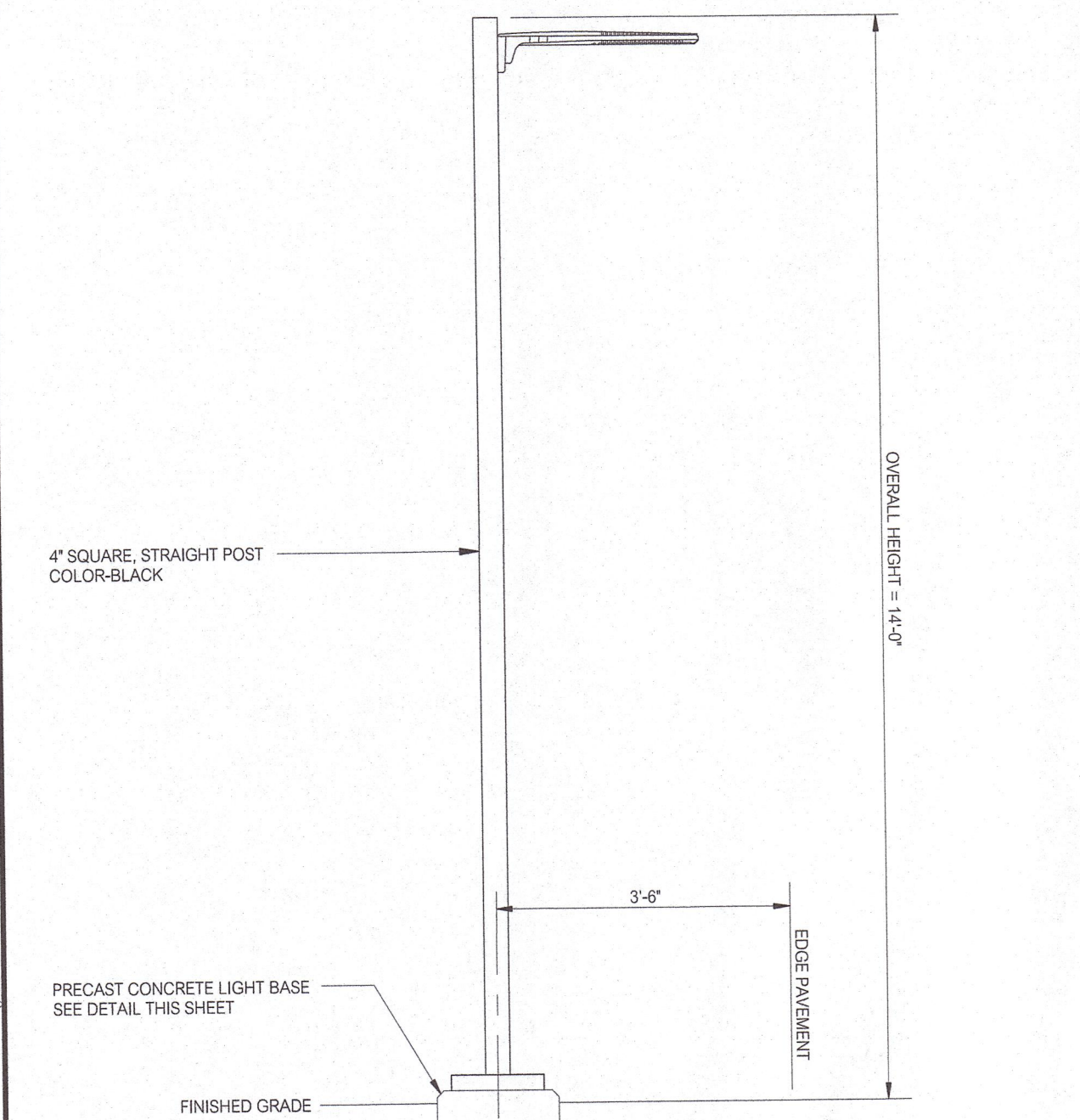
C3.1



- NOTES:
1. TREE PROTECTION ZONE EQUAL TO A CIRCULAR AREA WITH A DIAMETER EQUAL TO 20 TIMES THE DIAMETER OF THE TREE AT BROADST HEIGHT.
 2. STAKE FENCING USING WOOD OR METAL STAKES AT INTERVALS ADEQUATE TO MAINTAIN FENCING UPRIGHT.
 3. MAINTAIN TREE PROTECTION UNTIL ALL CONSTRUCTION ACTIVITIES REQUIRING THE USE OF EQUIPMENT AND VEHICLES AND STOCKPILING OF MATERIALS IN THE VICINITY OF PROTECTED TREE ARE COMPLETE.

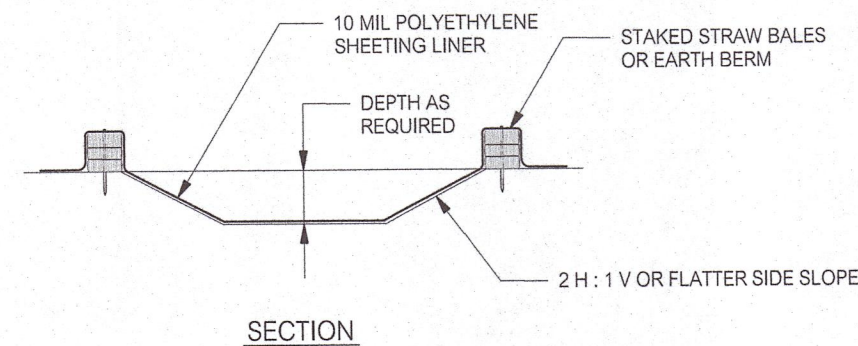
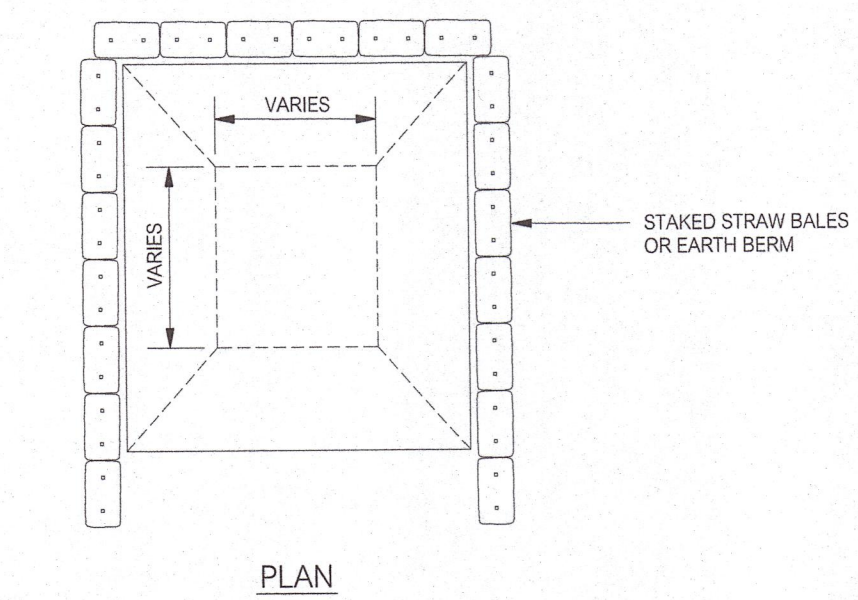


TP TREE PROTECTION
NOT TO SCALE



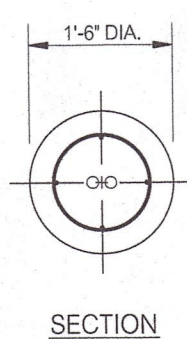
- NOTES:
1. LUMINAIRE: GARDCO ECOFORM, ECFL 800mA-96LED-3000K, FINISH COLOR-BLACK.
 2. CONTROL: PHOTOMETRIC ON AND TIMER OFF.

AREA LIGHTING
NOT TO SCALE

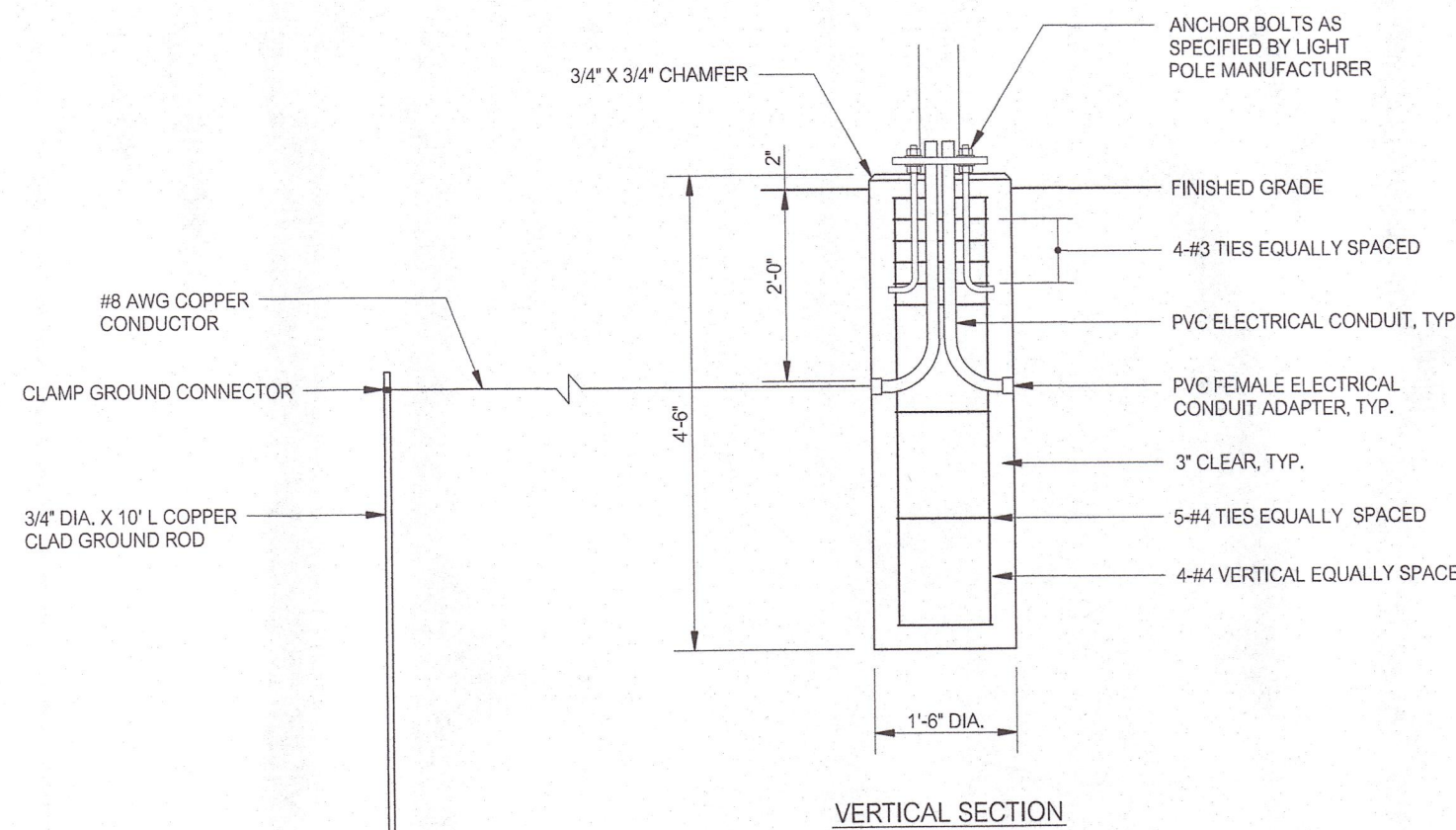


CONCRETE WASHOUT AREA
NOT TO SCALE

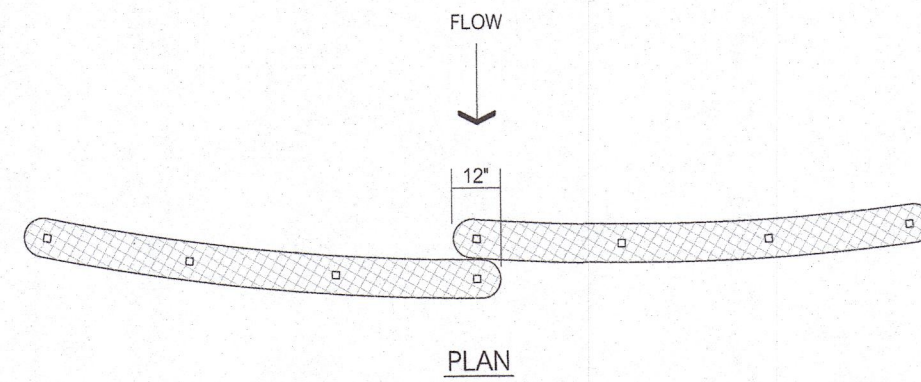
- NOTES:
1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT OR THE USE OF GROUT AND MORTAR ON SITE.
 2. CONCRETE WASHOUT AREA SHALL BE PLACED IN A LOCATION THAT MINIMIZES INTERFERENCE WITH CONSTRUCTION ACTIVITIES, IS A MINIMUM OF FIFTY (50) FEET FROM WETLANDS, WATERCOURSES AND SURFACE WATER BODIES, AND PROVIDES FOR EASE OF ACCESS BY EQUIPMENT FOR CLEANOUT AND DISPOSAL OF CONCRETE WASTE.
 3. THE CONCRETE WASHOUT AREA MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL CONCRETE AND GROUT AND MORTAR WASTE.
 4. CONCRETE WASHOUT AREA SHALL BE INSPECTED AT LEAST ONE A WEEK INCLUDING AFTER RAINFALL EVENTS.
 5. HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS WHEN THE DEPTH OF WASTE HAS REACHED ONE-HALF OF THE CONCRETE WASHOUT AREA DEPTH.



SECTION

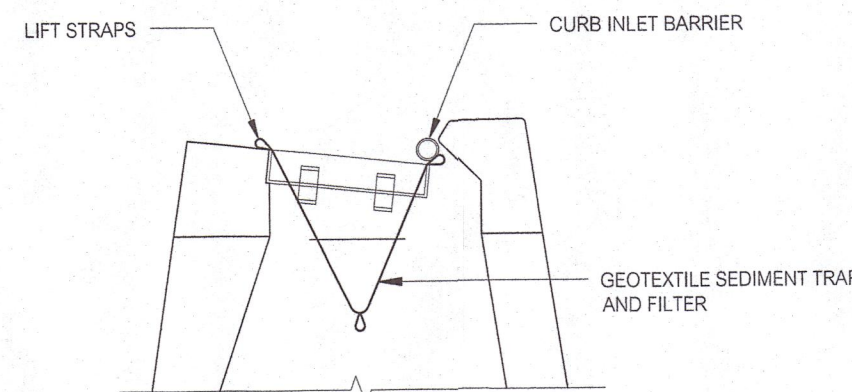


PRECAST CONCRETE LIGHT BASE
NOT TO SCALE



SW STRAW WATTLE BARRIER
NOT TO SCALE

1. EXCAVATE 4" DEEP TRENCH ALONG THE GROUND SURFACE CONTOUR AS WIDE AS WATTLE DIAMETER FOR LENGTH OF WATTLE.
 2. PLACE AND STAKE WATTLE AT 4 FOOT INTERVALS OR IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
 3. OVERLAP ADJACENT WATTLE SECTIONS 12" MINIMUM.
 4. BACKFILL AND COMPACT THE EXCAVATED SOIL ON UPHILL SIDE OF BARRIER.
1. INSPECT BARRIER AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2 INCH OR GREATER.
 2. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE BARRIER.

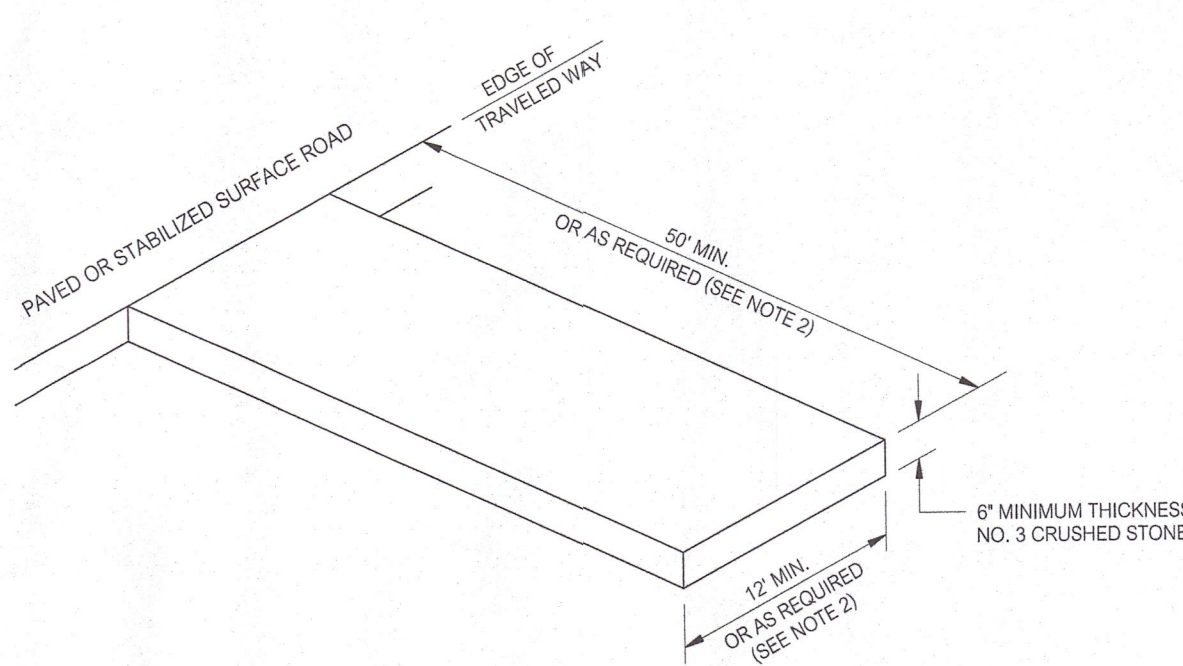


SC SEDIMENTATION CONTROL AT DRAINAGE STRUCTURE
NOT TO SCALE

1. PLACE GEOTEXTILE SEDIMENT TRAP AND FILTER UNDER GRATE AND SET IN FRAME.
 2. PLACE CURB INLET BARRIER AGAINST CURB INLET OPENING.
1. INSPECT DRAINAGE STRUCTURE INLETS AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2 INCH OR GREATER.
 2. REMOVE SEDIMENT TRAP AND FILTER WHEN 1/2 FULL, DISPOSE OF SEDIMENT, CLEAN AND RE-INSTALL THE SEDIMENT TRAP.

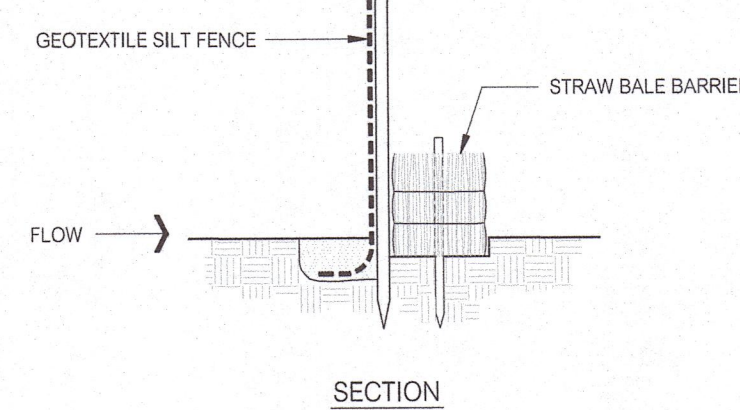
NOTE:

TYPE "C" CATCH BASIN SHOWN. THIS DETAIL APPLIES TO ALL DRAINAGE STRUCTURE INLET TYPES SHOWN ON THE DRAWINGS.



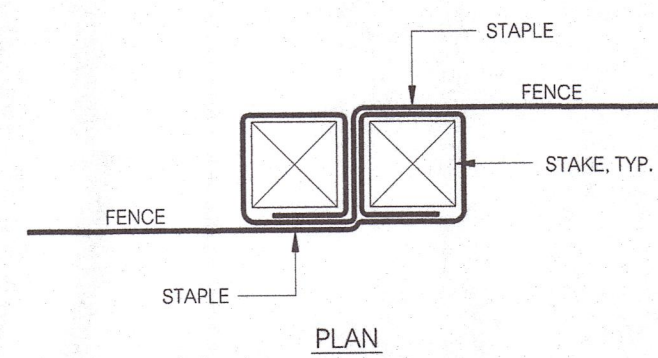
CE CONSTRUCTION ENTRANCE
NOT TO SCALE

- NOTES:
1. CLEAR AND GRUB AREA AND REMOVE TOPSOIL BEFORE PLACEMENT OF CRUSHED STONE LAYER. A GEOTEXTILE MAY BE REQUIRED TO STRENGTHEN SUBGRADE SOILS AND TO PREVENT STONE MOVEMENT AND LOSS OF VOIDS WITHIN THE STONE ENTRANCE WHERE REQUIRED.
 2. LENGTH AND WIDTH OF ENTRANCE MAY BE INCREASED OR MAY BE LIMITED BY SITE CONDITIONS AS DIRECTED BY THE ENGINEER.
 3. PROVIDE ADEQUATE WIDTH OF ENTRANCE AT ROAD INTERSECTION TO ACCOMMODATE THE TURNING MOVEMENTS OF CONSTRUCTION VEHICLES.
 4. MAINTAIN ENTRANCE SO AS TO PREVENT TRACKING OR WASHING OF SEDIMENT ONTO ROAD. SEDIMENT THAT MAY BE TRACKED OR OTHERWISE DEPOSITED WITHIN THE ROAD SHALL BE REMOVED IMMEDIATELY.
 5. MAINTENANCE MAY INCLUDE THE REQUIREMENT FOR TOP DRESSING THE CRUSHED STONE LAYER OR REPLACING THE FULL DEPTH OF THE CRUSHED STONE LAYER.
 6. SHOULD SITE CONDITIONS BE SUCH THAT SOIL CANNOT BE REMOVED BY VEHICLES TRAVELING OVER THE ENTRANCE, THE TIRES OF VEHICLES MAY HAVE TO BE WASHED PRIOR TO VEHICLES ENTERING THE ROAD. ALL WASH WATER SHALL BE DIRECTED THROUGH AN APPROVED SEDIMENT FILTER OR TO A SEDIMENT BASIN.

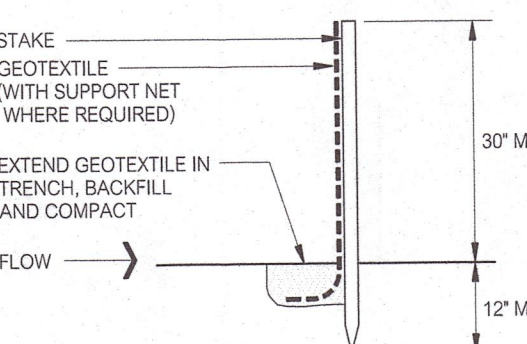


GEOTEXTILE SILT FENCE AND STRAW BALE SEDIMENT CONTROL BARRIER
NOT TO SCALE

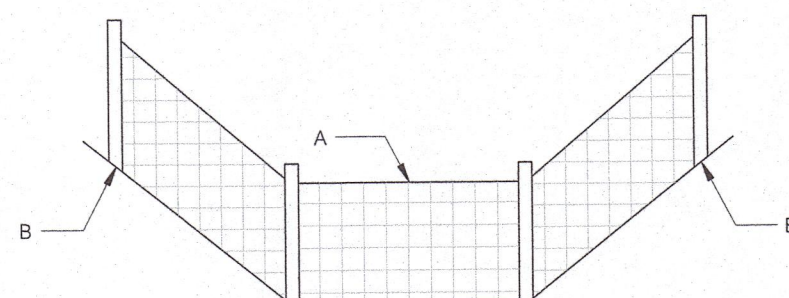
- NOTES:
1. SEE GEOTEXTILE SILT FENCE AND STRAW BALE BARRIER DETAILS THIS SHEET.
 2. WHERE A DOUBLE ROW OF BARRIER IS CALLED FOR ON THE PLANS THE DISTANCE BETWEEN THE FIRST LINE OF STRAW BALES AND THE SECOND LINE OF GEOTEXTILE SILT FENCE SHALL BE A MINIMUM OF 2 FEET.



- NOTE:
- DRIVE STAKES TIGHTLY TOGETHER AND SECURE TOPS OF STAKES WITH CORD OR WIRE TO PREVENT FLOW-THROUGH OF SEDIMENT.

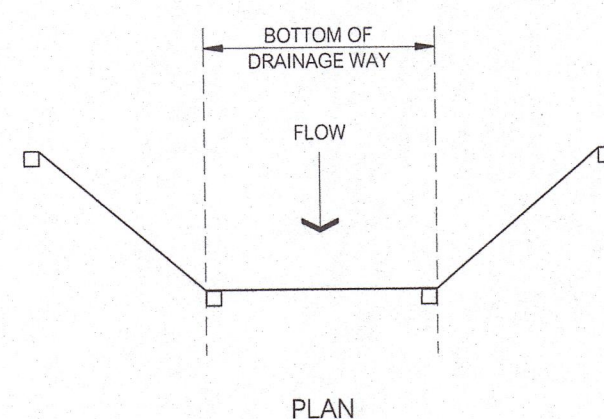


SECTION



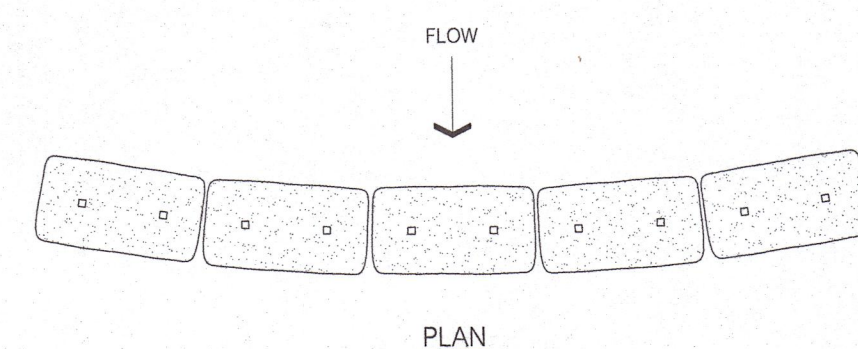
ELEVATION

- NOTE:
- WHEN NOT INSTALLED ON THE CONTOUR OR WHEN INSTALLED IN A DRAINAGE WAY, THE ELEVATION OF POINTS B SHALL BE HIGHER THAN POINT A.

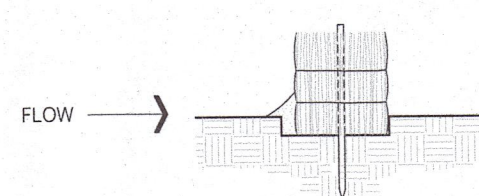


GSP GEOTEXTILE SILT FENCE
NOT TO SCALE

1. EXCAVATE 4" DEEP TRENCH FOR LENGTH OF THE FENCE.
 2. EXTEND 6" LENGTH OF GEOTEXTILE INTO TRENCH, BACKFILL AND COMPACT.
 3. AS AN ALTERNATE METHOD, EXTEND LENGTH OF GEOTEXTILE HORIZONTALLY ON EXISTING GROUND, RAMP SOIL OVER GEOTEXTILE AND COMPACT.
1. INSPECT FENCE AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2 INCH OR GREATER.
 2. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.



PLAN



SECTION

HB STRAW BALE BARRIER
NOT TO SCALE

1. EXCAVATE 4" DEEP TRENCH FOR LENGTH OF BALES.
2. PLACE AND STAKE BALES, TWO (2) STAKES PER BALE.
3. PLACE BALES SUCH THAT BINDINGS ARE ORIENTED AROUND THE SIDES OF BALES RATHER THAN ALONG THE TOP AND BOTTOM OF BALES.
4. WEDGE LOOSE STRAW BETWEEN BALES.
5. BACKFILL AND COMPACT THE EXCAVATED SOIL ON UPHILL SIDE OF BARRIER.

1. INSPECT BARRIER AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2 INCH OR GREATER.
2. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE BARRIER.

PERMIT DRAWINGS

REVISIONS		TITLE
NO.	DATE	DESCRIPTION
REVISIONS		


The Williams School
ATHLETIC COMPLEX
122 BLOOMINGDALE ROAD
WATERFORD, CONNECTICUT

SEAL:

PREPARED BY:

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P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

PROJECT:

ATHLETICS TEAM AND FACILITIES BUILDING

DATE:

4-1-24

SCALE:

AS NOTED

DESIGNED:

MJO

CHECKED:

LJM

SHEET:

DETAILS

SHEET NO.:

C3.2

PROJECT NO.:

23-43