

EROSION CONTROL SEEDING NOTES:

- USE PERMANENT SEED MIXES AND RATES BETWEEN 5/15 AND 9/30.
- USE TEMPORARY SEED MIXES FOR PERIODS LESS THAN 12 MONTHS. IF USING TEMPORARY SEED MIXES AND RATES BETWEEN 10/1 AND 5/14, RE-SEED WITH PERMANENT SEED MIX AFTER 5/15.

PERMANENT SEED MIX 1:

KENTUCKY BLUEGRASS 20.00 LBS/ACRE
CREEPING RED FESCUE 20.00 LBS/ACRE
PERENNIAL RYEGRASS 5.00 LBS/ACRE

PERMANENT SEED MIX 2:

PERENNIAL RYEGRASS 5.00 LBS/ACRE
CROUNVETCH 15.00 LBS/ACRE
TALL FESCUE 15.00 LBS/ACRE
SWITCHGRASS 10.00 LBS/ACRE (PURE LIVE SEED)

TOTAL SEED RATE: 45.00 LBS/ACRE

TOTAL SEED RATE: 43.00 LBS/ACRE

TEMPORARY SEED:

OATS 80.00 LBS/ACRE 4/01 - 5/14
ANNUAL RYEGRASS 40.00 LBS/ACRE 5/15 - 9/14
SUDANGRASS 40.00 LBS/ACRE 5/15 - 9/14
ANNUAL RYEGRASS 80.00 LBS/ACRE 9/15 - 9/30
WINTER RYE 112.00 LBS/ACRE 10/01 - 3/31
WINTER RYE (PROTECT W/ MULCH COVER) 112.00 LBS/ACRE 10/01 - 3/31

LIME AND FERTILIZER:

LIMING AND FERTILIZER RATES WILL BE BASED ON FIELD SOIL TESTING OF ON-SITE TOPSOILS BY A CERTIFIED LABORATORY. SUBMIT TEST RESULTS TO THE ENGINEER.

MULCH:

STRAW OR HAY (ANCHORED) 10 - 90 LBS PROTECTED AREAS
STRAW OR HAY (ANCHORED) 185 - 275 LBS WINDY AREAS
SHREDDED OR CHOPPED 185 - 275 LBS
JUTE MESH AS REQUIRED MODERATE TO HIGH VELOCITY AREAS & STEEP SLOPES

EXCELISIOR MAT AS REQUIRED

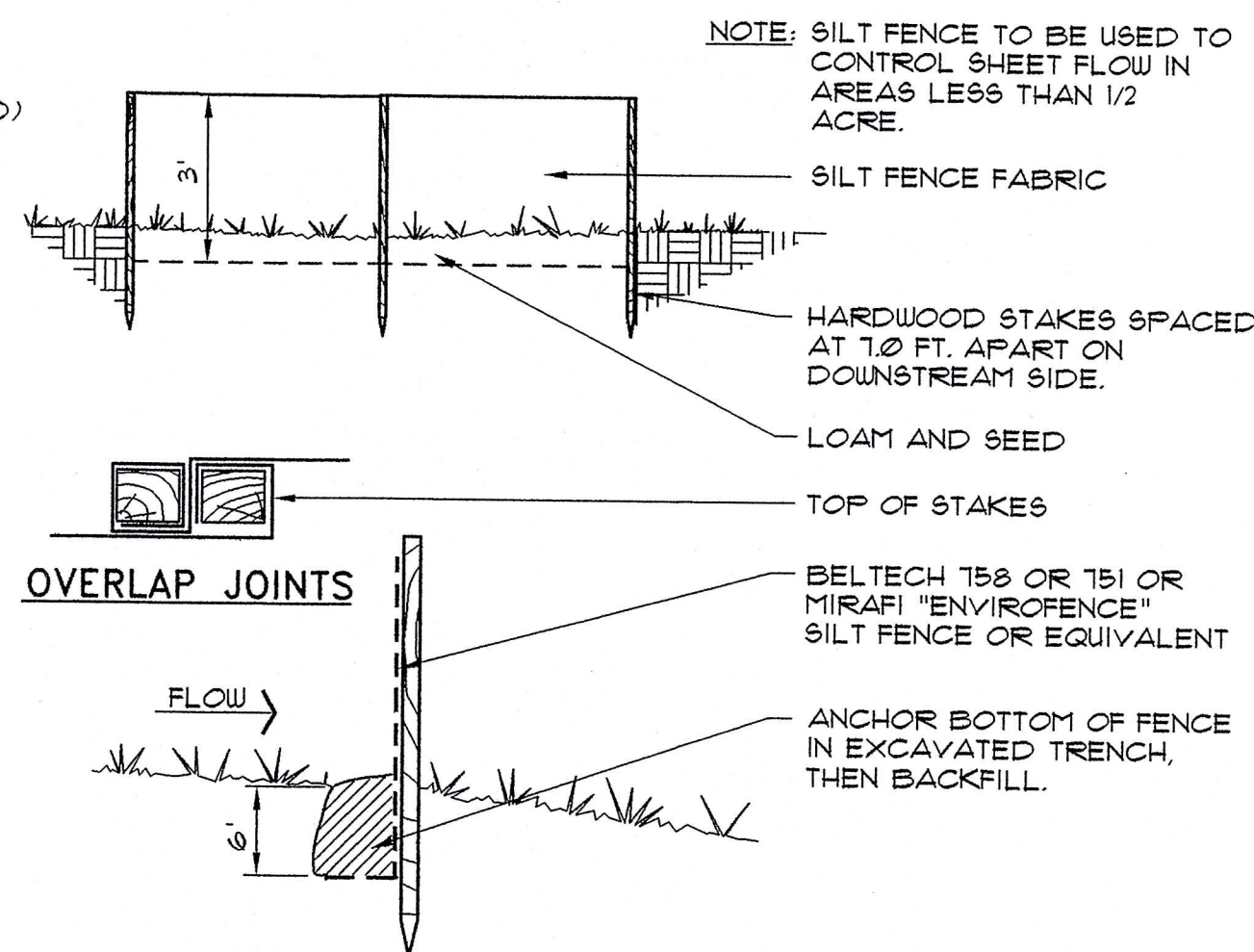
MULCH ANCHORING

ALL SLOPES GREATER THAN 15% DURING REGULAR GROWING SEASON ARE TO HAVE THE MULCH PINNED DOWN BY NETTING OR COVERED WITH COMBINATION MULCH AND NET PRODUCT. THIS REQUIREMENT IS REDUCED TO 8% SLOPES AFTER OCT. 1.

PEG AND TWINE LIQUID ASPHALT
MULCH NETTING WOOD CELLULOSE FIBER
ASPHALT EMULSION CHEMICAL TACK

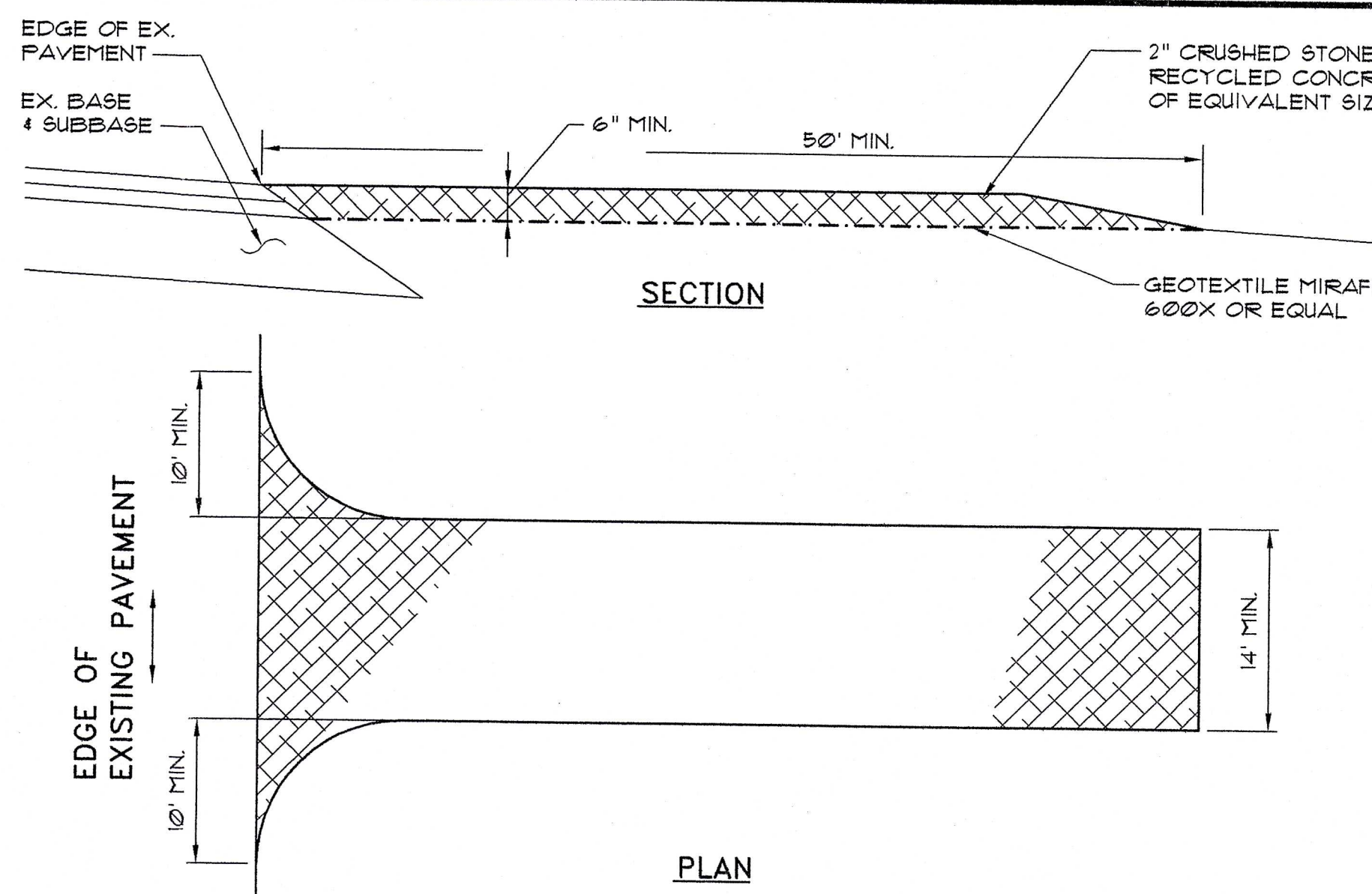
EROSION CONTROL GENERAL NOTES:

- THE DRAWINGS DEPICT THE REQUIRED SOIL EROSION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION SITE IN SUCH A MANNER THAT:
 - SOIL EROSION IS KEPT TO A MINIMUM.
 - NO SEDIMENT LEAVES THE CONSTRUCTION SITE PROPER.
 - ALL POSSIBLE MEASURES ARE EMPLOYED TO PREVENT SEDIMENT FROM ENTERING DRAINAGE COURSES AND WETLANDS EVEN BEYOND THE DETAILS SHOWN ON THIS PLAN IF NECESSARY.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION BEST MANAGEMENT PRACTICES PUBLISHED BY THE CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, MARCH 1991.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL FINES RESULTING FROM EROSION OR SEDIMENTATION FROM THE SITE TO SURROUNDING PROPERTIES, WATER BODIES, OR WETLAND AS A RESULT OF THIS PROJECT.
- LOAM AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER DISTURBANCE.
- INSPECT SOIL EROSION MEASURES WEEKLY AND AFTER SIGNIFICANT STORM EVENTS. MAKE ALL NECESSARY REPAIRS TO FACILITIES AS SOON AS POSSIBLE, BUT NO LONGER THAN 2 DAYS. CLEAN AND RESET SILT FENCES AND HAY BALE BARRIERS WHICH ACCUMULATE SEDIMENT AND DEBRIS. CLEAN CATCH BASIN SUMPS ON A REGULAR BASIS.
- PROTECT AND STABILIZE ALL AREAS NOT SCHEDULED FOR EROSION PREVENTION OR STABILIZATION BUT THAT SHOW SIGNS OF EROSION. NOTIFY OWNER OF ANY SIGNIFICANT EROSION PROBLEM.
- TEMPORARILY SEED WITHIN 1 DAYS ANY AREA WHICH WILL BE LEFT UNDISTURBED FOR MORE THAN 14 DAYS WITH THE TEMPORARY SEED MIX LISTED. PERMANENTLY SEED ANY AREA WHICH CAN BE LOAMED AS SOON AS POSSIBLE WITH THE PERMANENT SEED MIX LISTED. DO NOT USE PERMANENT SEED MIX AFTER SEPTEMBER 15. SEE SEQUENCE OF CONSTRUCTION NOTE #3.
- MULCH ALL AREAS SEEDED SO THAT SOIL IS NOT VISIBLE THROUGH THE MULCH REGARDLESS OF THE APPLICATION RATE. DURING THE GROWING SEASON (APRIL 15 - SEPT. 30) USE MATS (OR MULCH AND NETTING) ON:
 - THE BASE OF GRASSED WATERWAYS
 - SLOPES STEEPER THAN 15%
 - WITHIN 100 FT. OF STREAMS AND WETLANDS
 - BETWEEN OCT. 1 AND APRIL 14 USE MATS (OR MULCH AND NETTING) ON:
 - SIDE SLOPES OF GRASSED WATERWAYS
 - SLOPES STEEPER THAN 8%
 INSTALL MATS (OR NETTING) IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- FOLLOW SILT FENCE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS FOR INSTALLATION OF SILT FENCE. SECURE ENTIRE BOTTOM OF FENCE BY BURYING BOTTOM OF FENCE IN A TRENCH. IF SOIL CONDITIONS DO NOT ALLOW THE FENCE TO BE BURIED BERMING WITH EROSION CONTROL MIX IS A SUITABLE ALTERNATIVE.
- PLACE HAY BALE BARRIERS AROUND ALL CATCH BASINS AND MAINTAIN UNTIL ADJACENT AREAS ARE PAVED OR VEGETATED.
- ALL TOPSOIL STRIPPED FROM THE SITE SHALL REMAIN ON THE SITE FOR REUSE. SEED LOAM STOCKPILE WITH TEMPORARY SEED MIX AND MULCH. ERECT SILT FENCE DOWN SLOPE OF LOAM STOCKPILES.



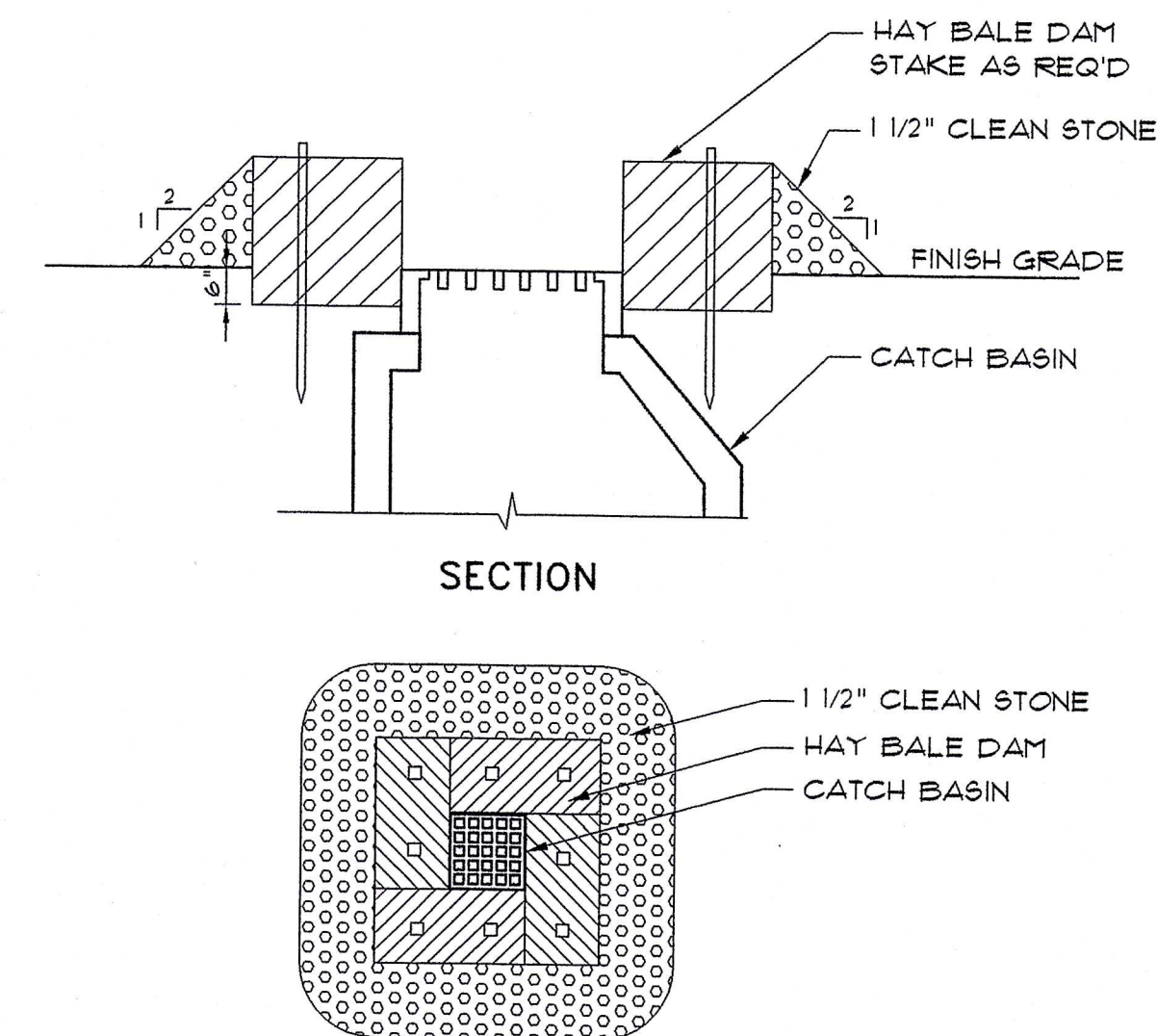
3 SILT FENCE DETAIL

NOT TO SCALE



2 STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



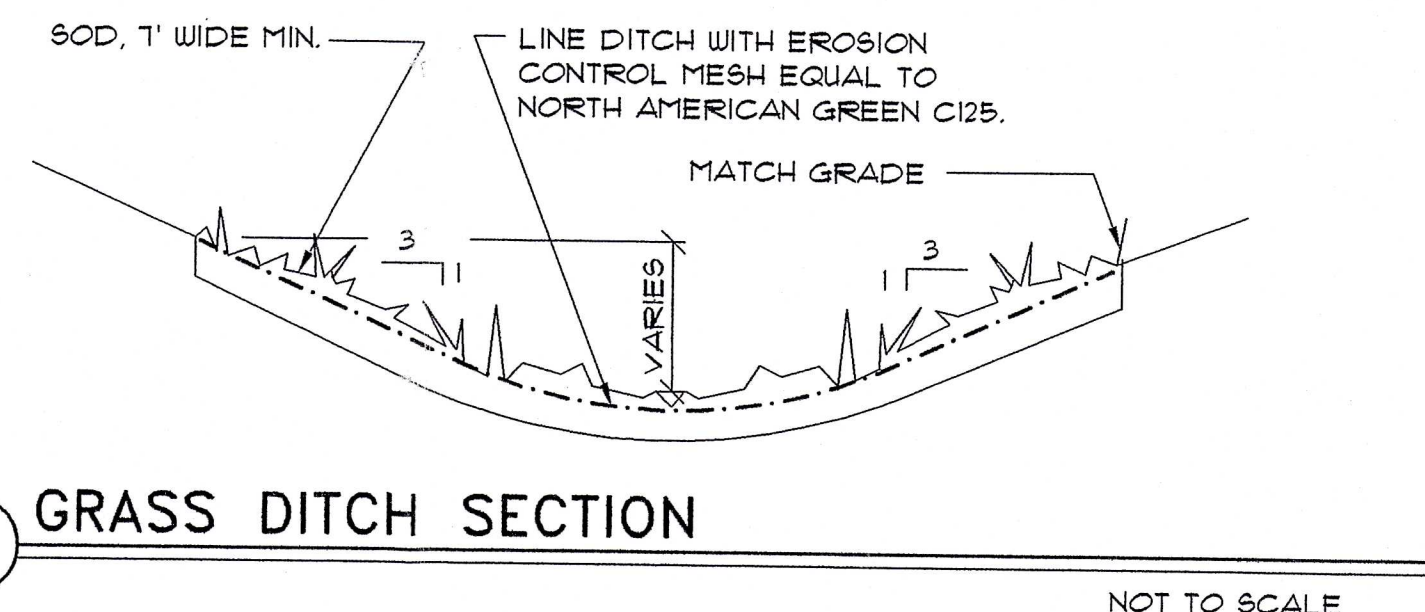
1 CATCH BASIN PROTECTION

NOT TO SCALE

SEQUENCE OF CONSTRUCTION:

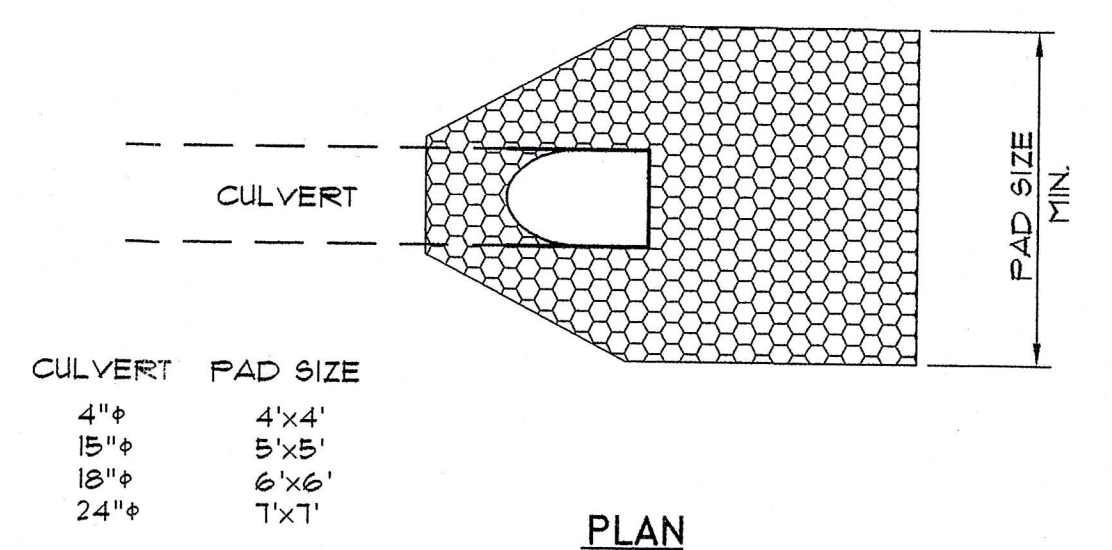
THIS SEQUENCE OF CONSTRUCTION IS A GENERAL GUIDE TO THE CONTRACTOR. ACTUAL CONSTRUCTION PRACTICES WILL DICTATE VARIATIONS IN THE ORDER OF MAJOR EVENTS.

- INSTALL ALL PERIMETER SILT FENCE AND HAY BALE PROTECTION.
- CLEAR AND GRUB WORK AREAS. TEMPORARILY SEED AREAS NOT TO BE WORKED ON WITHIN 14 DAYS.
- STRIP AND STOCKPILE ON-SITE TOPSOIL. SEED STOCKPILES WITH TEMPORARY SEED MIX.
- SUBMIT SAMPLES OF TOPSOIL/LOAM FOR LAB WORK. ADJUST LIME AND FERTILIZER ACCORDINGLY.
- BEGIN EARTHWORK FOR FIELDS, ACCESS ROAD AND DETENTION POND.
- INSTALL AND PROTECT ALL STORM DRAINAGE AND UNDER DRAIN SYSTEMS.
- ROUGH GRADE ACCESS ROAD AND FIELDS.
- FINE GRADE, LOAM, SEED AND MULCH THE JAVELIN, DISCUS AND SHOTPUT. CUT AND FILL SLOPES AROUND THE TRACK, PRACTICE FIELDS AND SOCCER FIELD.
- RESEED OR TEMPORARILY SEED ANY AREA WHICH WILL BE LEFT UNDISTURBED FOR MORE THAN 14 DAYS.
- CONSTRUCT SOCCER FIELD BASE AND SYNTHETIC SURFACE.
- CONSTRUCT TRACK BASE, FIELD EVENT RUNWAYS & PITS, LIGHT POLE BASES, CONCESSION STAND FOUNDATIONS AND LAWN BETWEEN TRACK AND SOCCER FIELD.
- PAVE TRACK FIELD EVENT RUNWAYS AND ACCESS ROAD.
- CLEAN DETENTION POND AND STORM DRAIN SYSTEM OF CONSTRUCTION SEDIMENTATION.
- INSTALL CHAIN LINK FENCE AND LIGHT POLES.
- CONSTRUCT TRACK SURFACE.



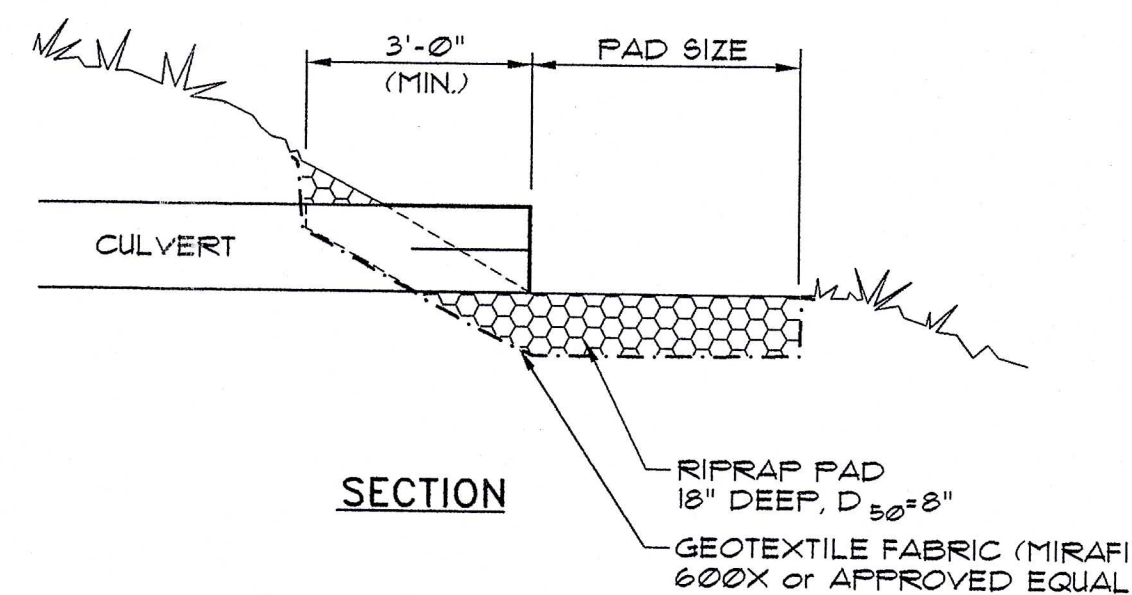
5 GRASS DITCH SECTION

NOT TO SCALE



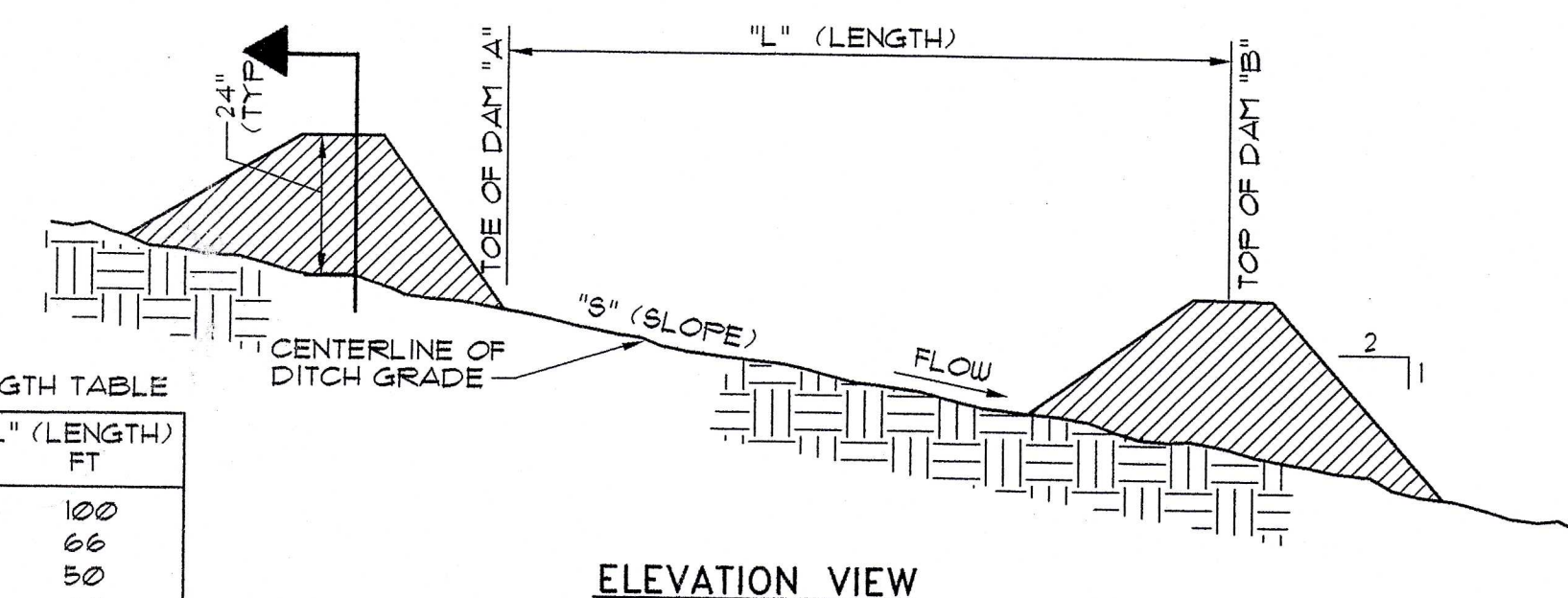
CULVERT	PAD SIZE
4"x6"	4'x4'
15"x6"	5'x5'
18"x6"	6'x6'
24"x6"	7'x7'

PLAN



6 RIPRAP PIPE END DETAIL

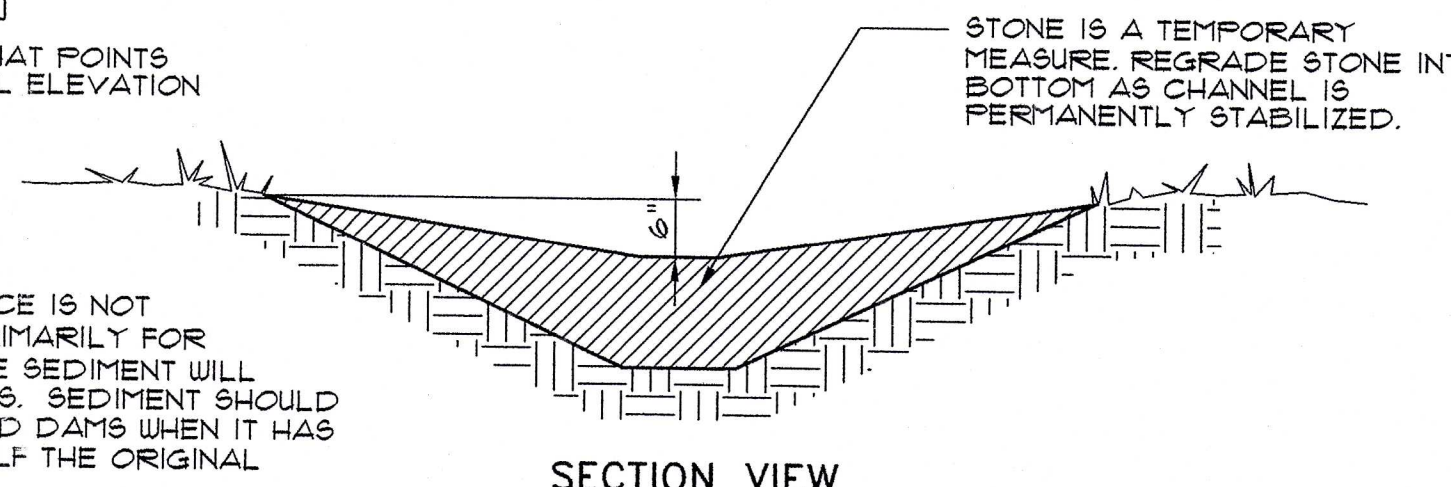
NOT TO SCALE



"S" (SLOPE) FT/FT	"L" (LENGTH) FT
0.020	100
0.030	66
0.040	50
0.050	40
0.060	33
0.080	25
0.100	20
0.120	17
0.150	13

ELEVATION VIEW

L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

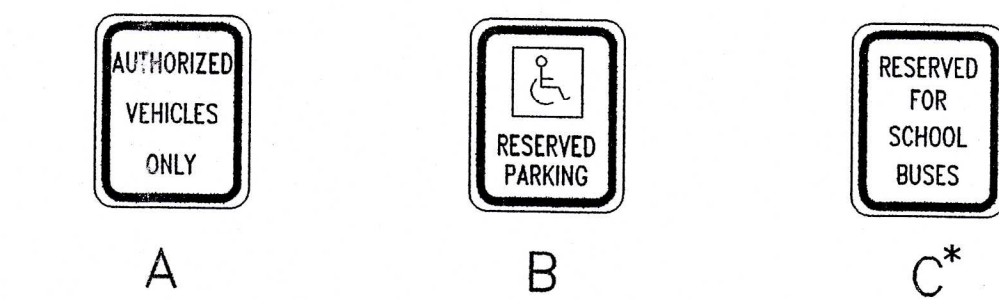


SECTION VIEW

NOTE: WHILE THIS PRACTICE IS NOT INTENDED TO BE USED PRIMARILY FOR SEDIMENT TRAPPING, SOME SEDIMENT WILL ACCUMULATE BEHIND DAMS. SEDIMENT SHOULD BE REMOVED FROM BEHIND DAMS WHEN IT HAS ACCUMULATED TO ONE HALF THE ORIGINAL HEIGHT OF THE DAM.

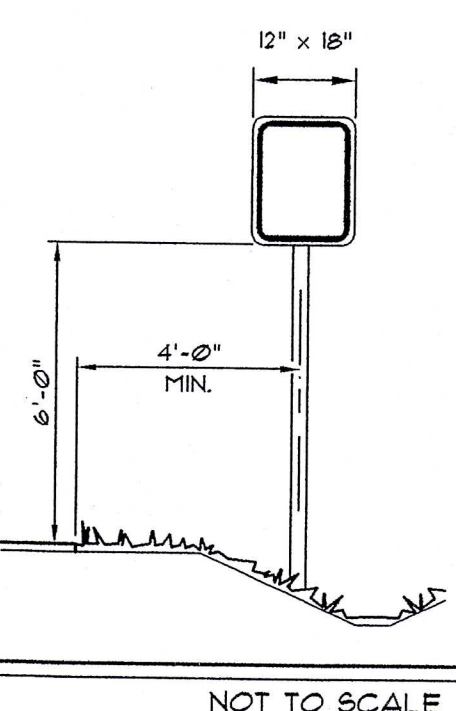
4 STONE CHECK DAM DETAIL

NOT TO SCALE



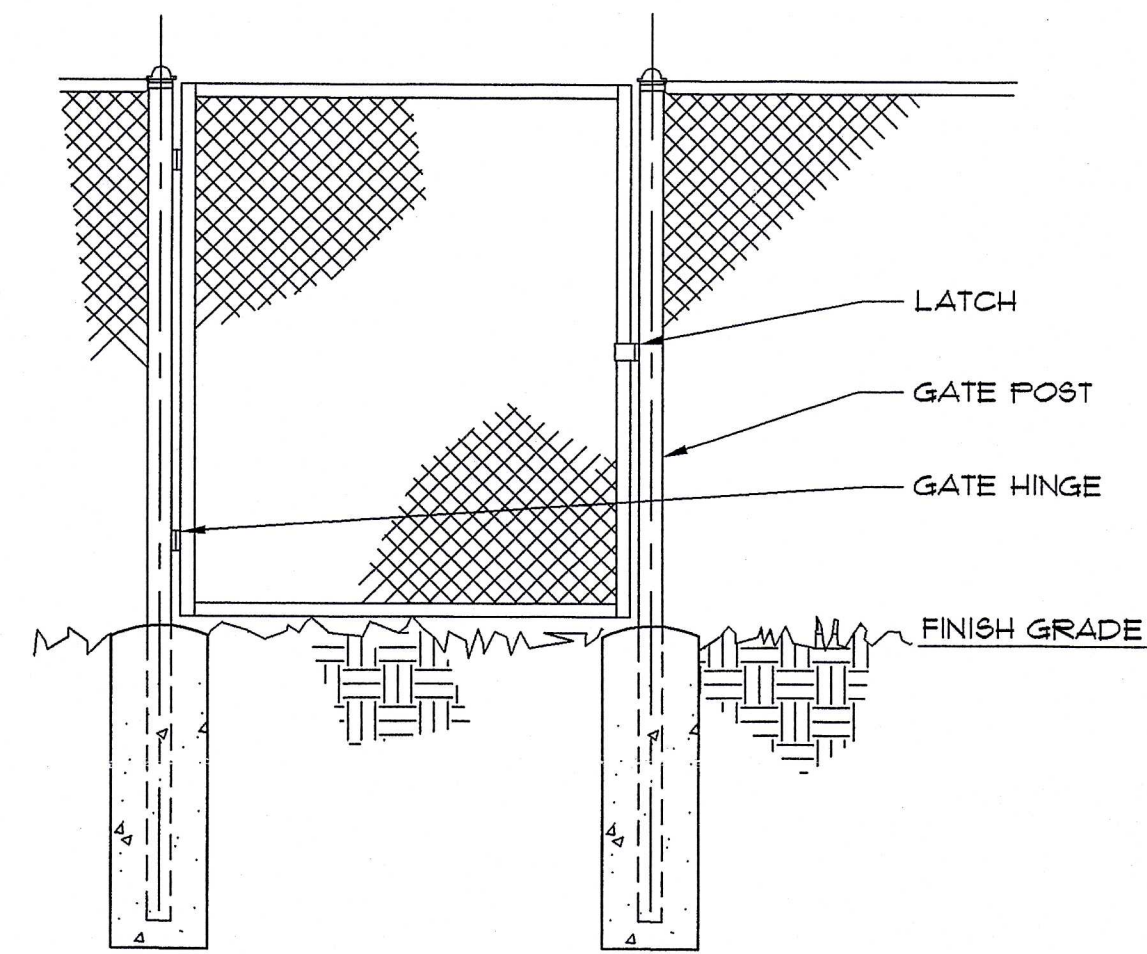
- SIGNS SHALL BE FABRICATED & INSTALLED IN ACCORDANCE WITH MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES REVISION OF APRIL 1995, SECTION 645.
- ALL PERMANENT SIGNS ON THIS PROJECT ARE CLASSIFIED UNDER SECTION 645.03(b), TYPE I REGULATORY WARNING AND ROUTE MARKER ASSEMBLY SIGNS.
- SIGN MATERIAL SHALL BE AS SPECIFIED IN SECTION 719 OF THE MDOT STANDARD SPECIFICATIONS.
- POSTS MAY BE WOOD OR METAL.
- SIGN C TO BE PLACED ON MOVABLE SIGN POST EQUIVALENT TO SETON STYLE NO. 36305

7 ROAD SIGN LEGEND

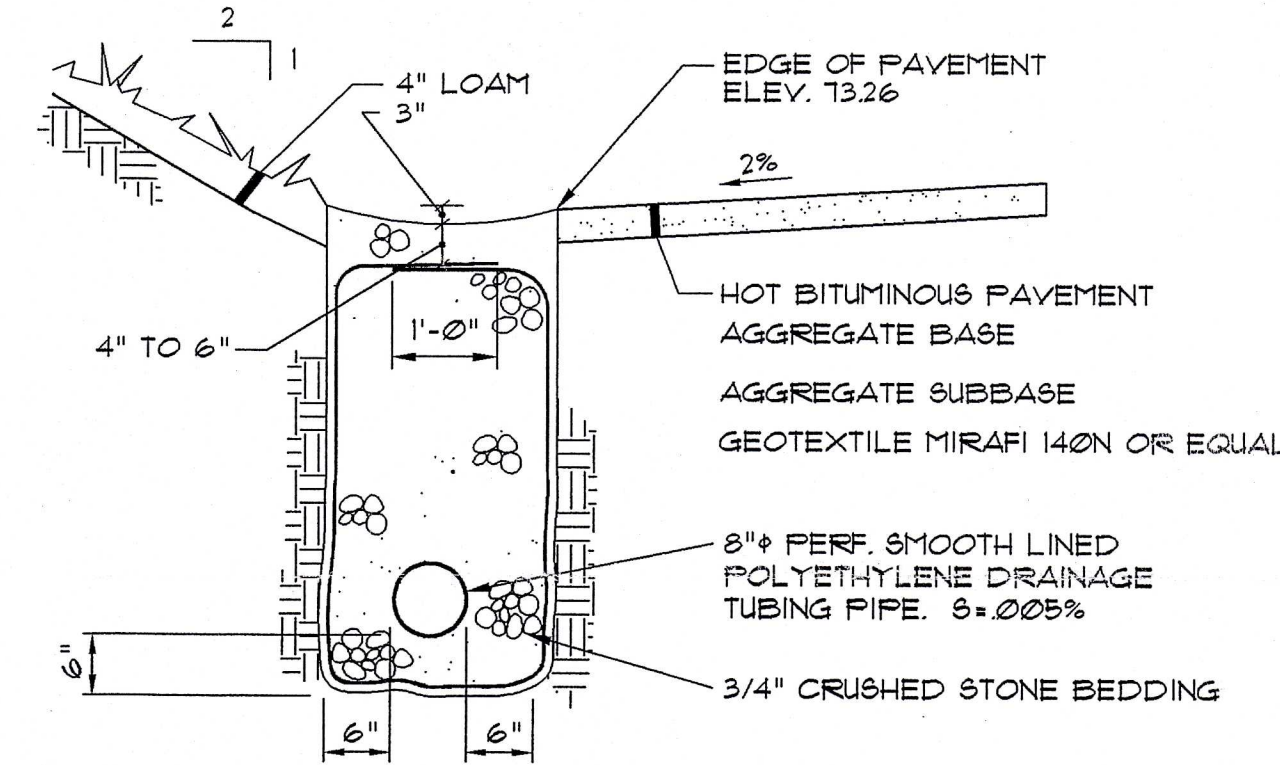


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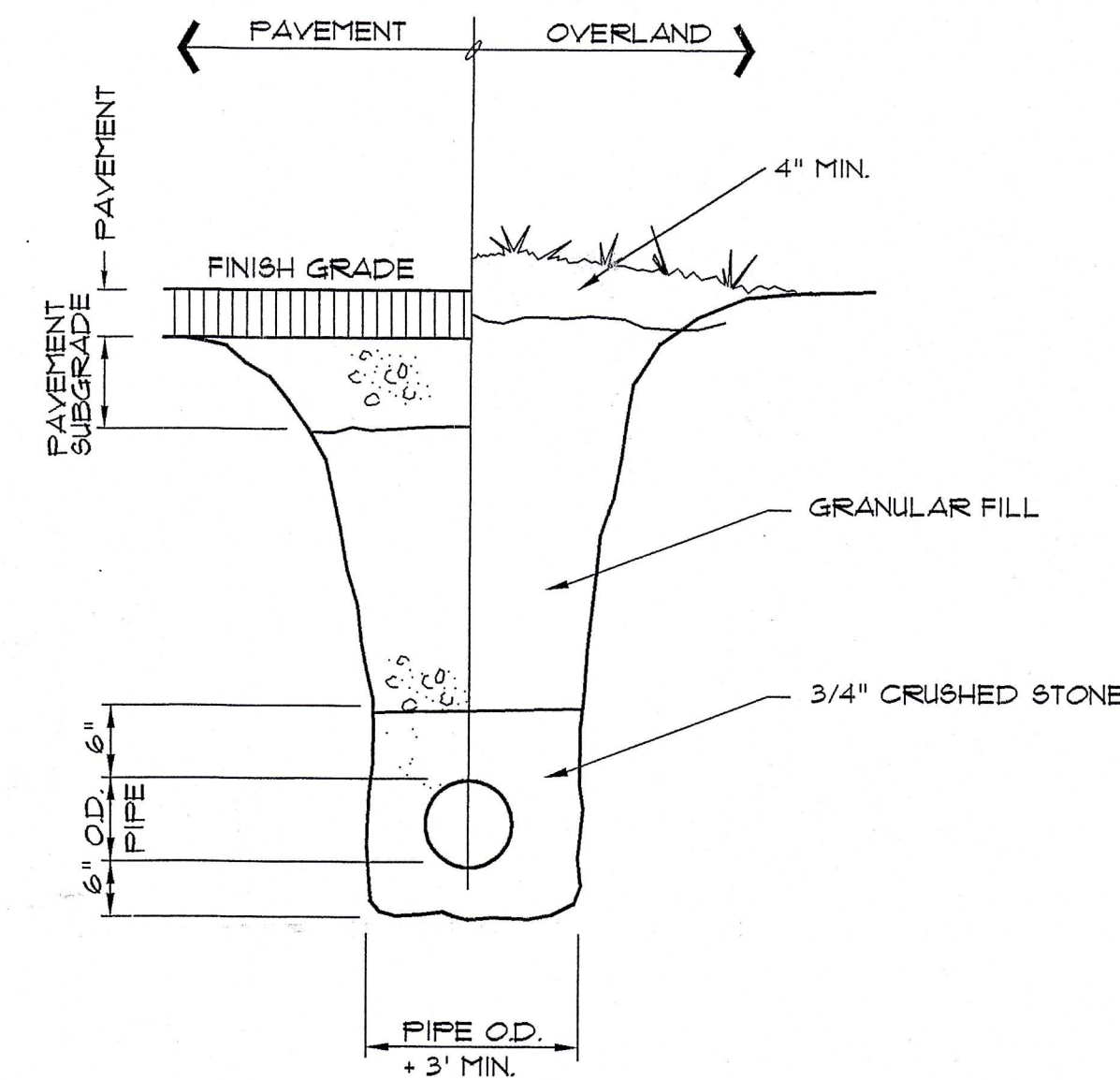
		<p>TOWN OF YARMOUTH YARMOUTH, MAINE</p> <p>YARMOUTH HIGH SCHOOL ATHLETIC FIELDS</p> <p>EROSION CONTROL NOTES AND DETAILS</p>	
REV.	DATE	DESCRIPTION	
2	3/27/00	REV'D CONSTRUCTION SEQUENCE	
1	2/2/00	REV'D DETAILS 5 & 7	
<p>SCALE: 1"=10'</p> <p>DATE: JANUARY 12, 2000</p> <p>PROJECT: 98181</p>		<p>DRN BY: BLD</p> <p>DESIGN BY: SES</p> <p>CHK BY: SES</p>	



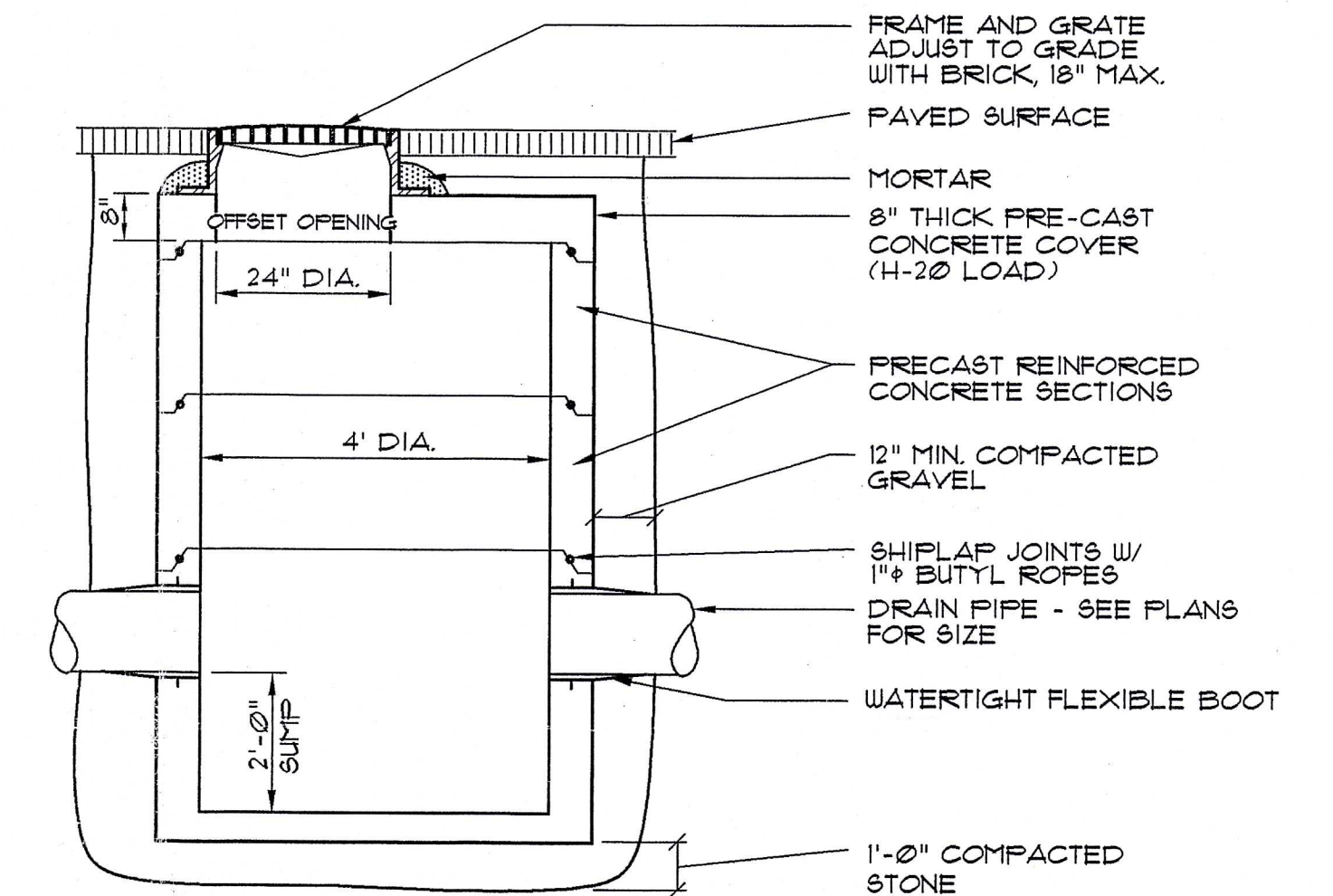
4 CHAINLINK FENCE SINGLE LEAF GATE
NOT TO SCALE



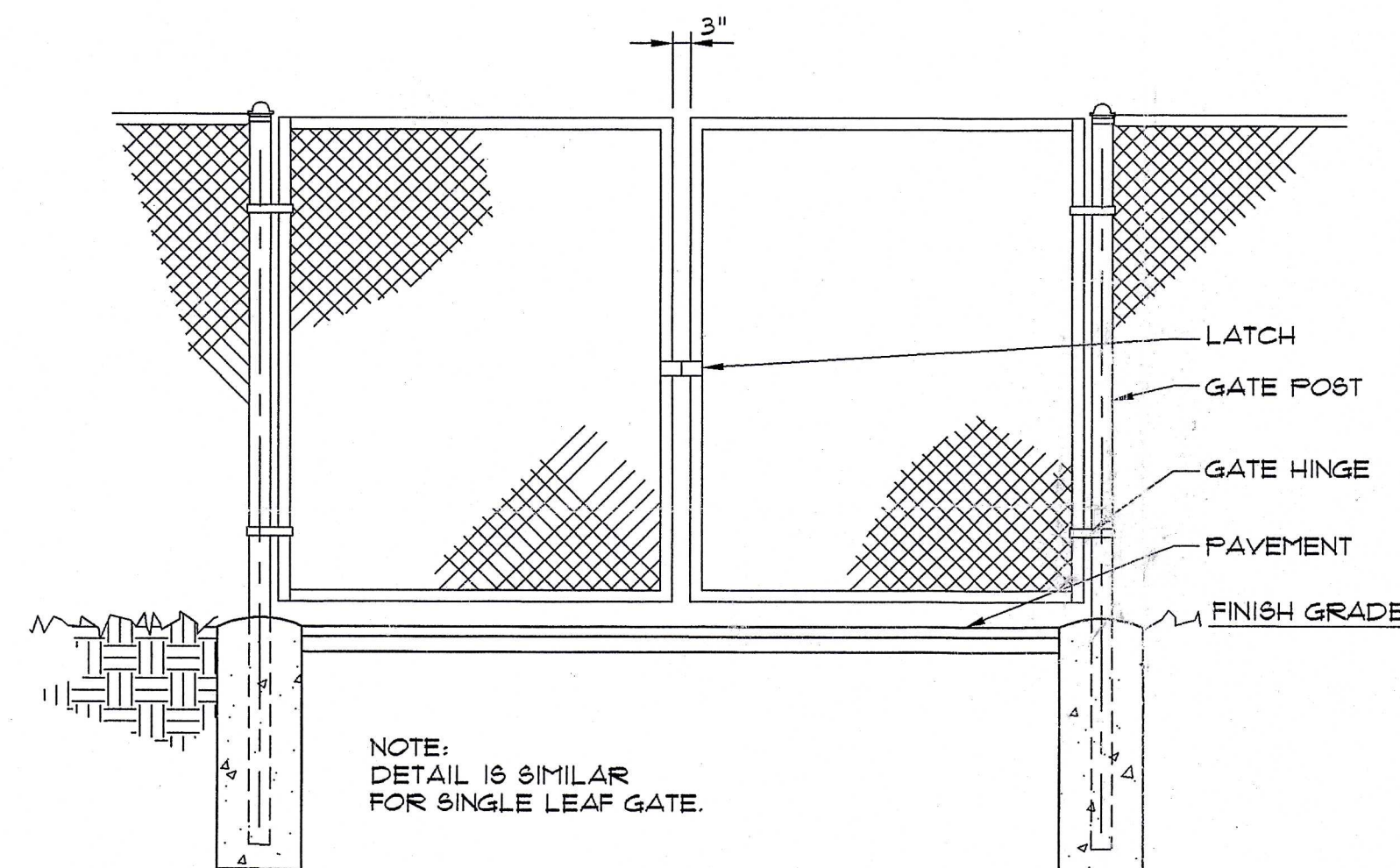
3 TRENCH DRAIN WEST SIDE OF TRACK
NOT TO SCALE



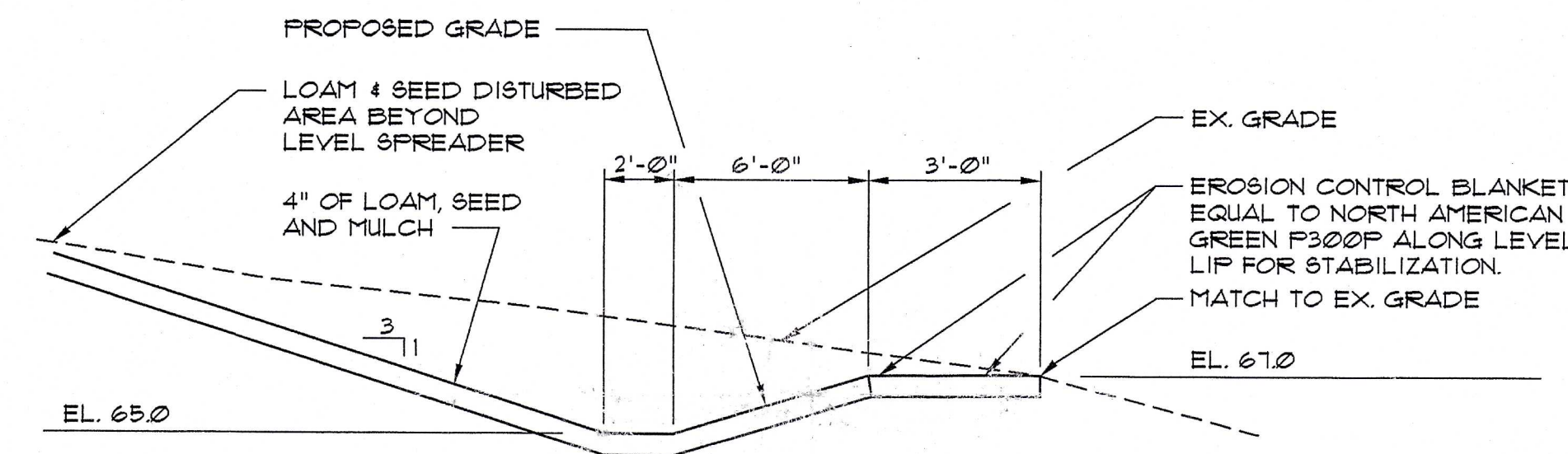
2 TYPICAL PIPE TRENCH SECTION
NOT TO SCALE



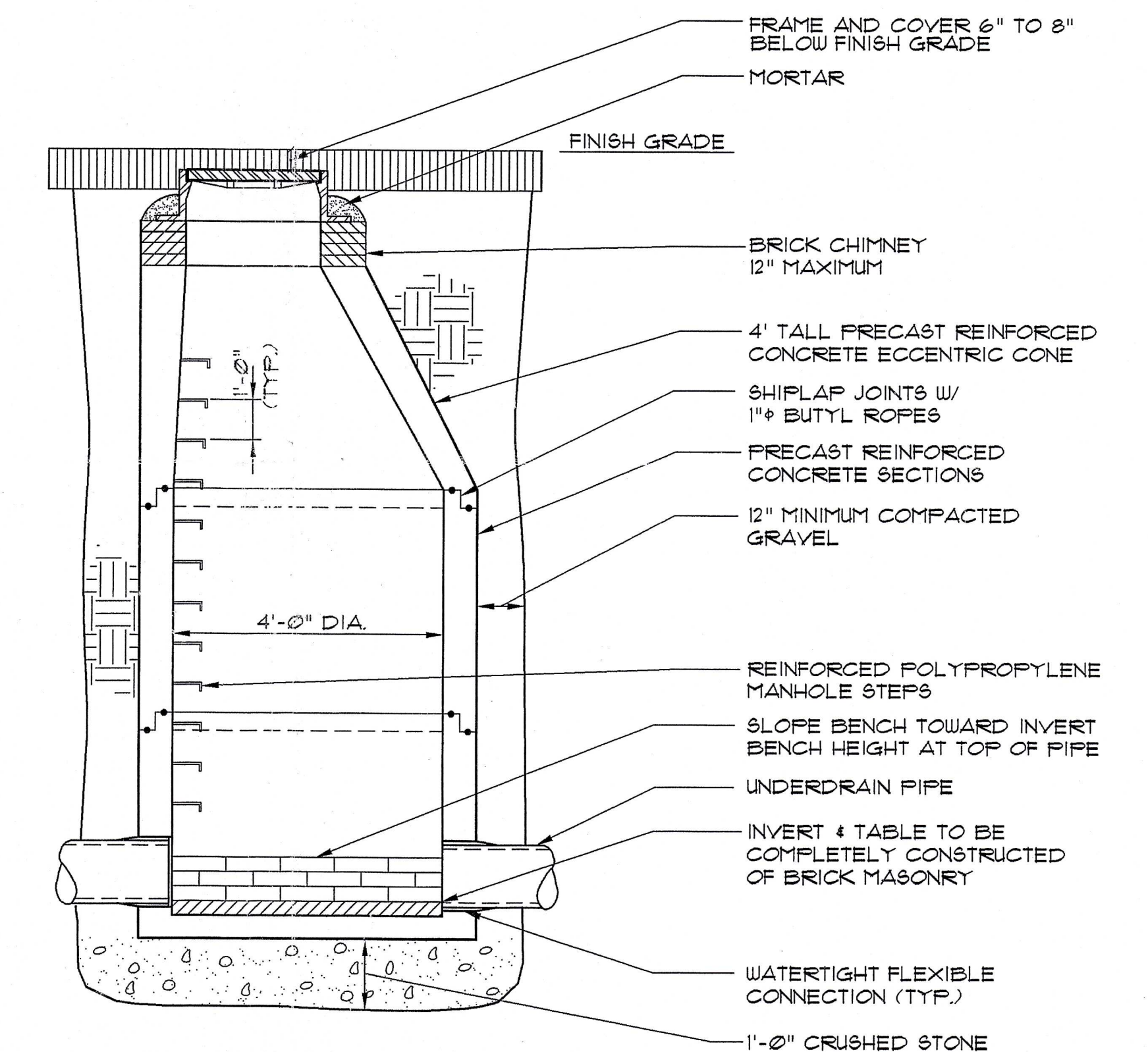
1 TYPICAL CATCH BASIN SECTION
NOT TO SCALE



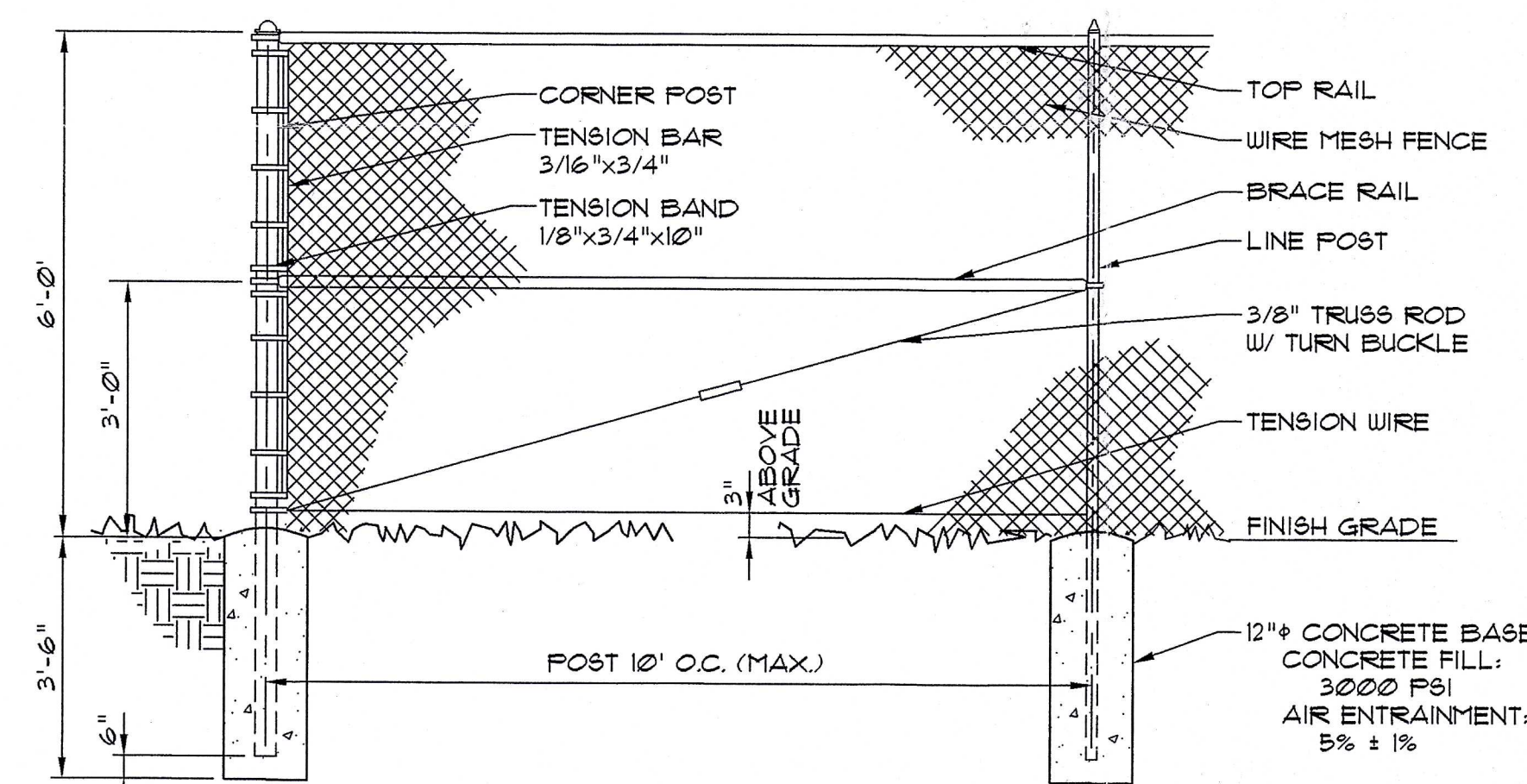
7 CHAINLINK FENCE DOUBLE LEAF GATE
NOT TO SCALE



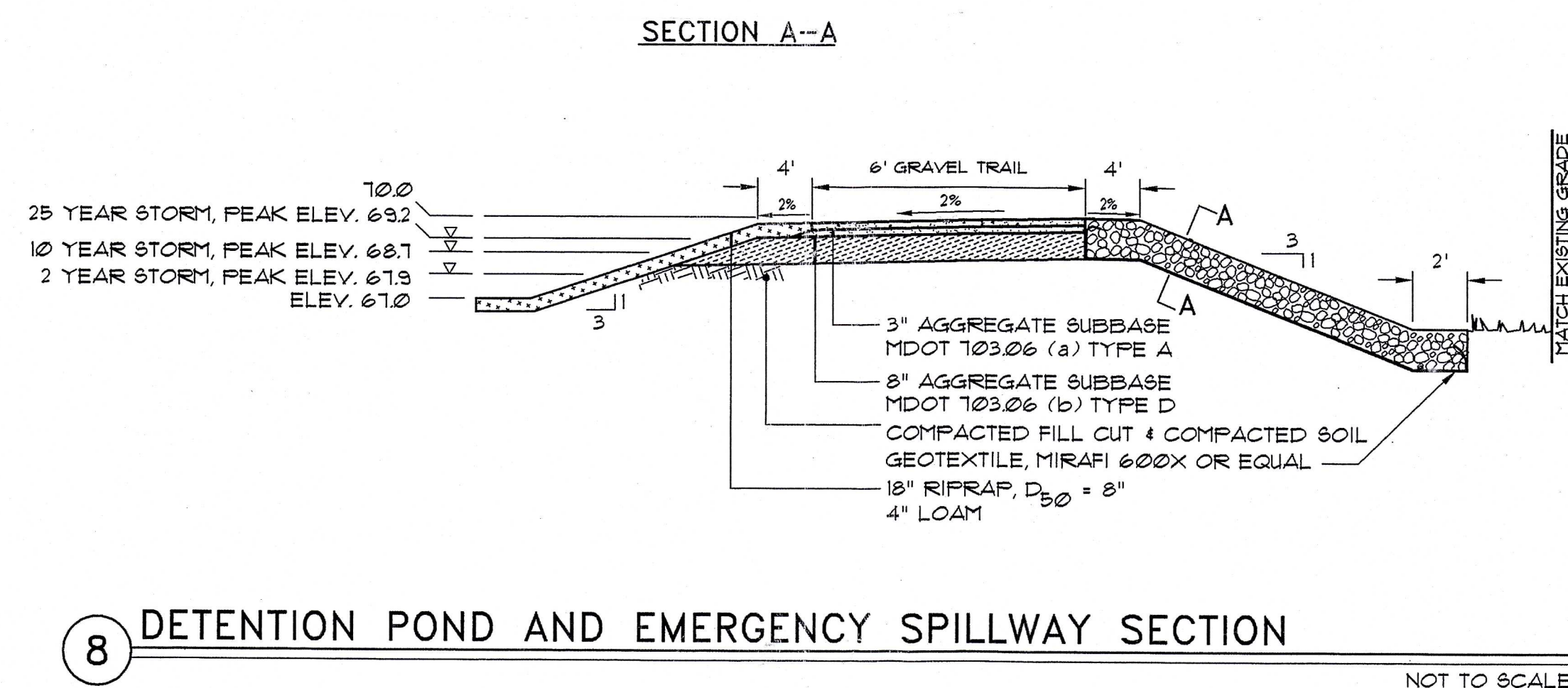
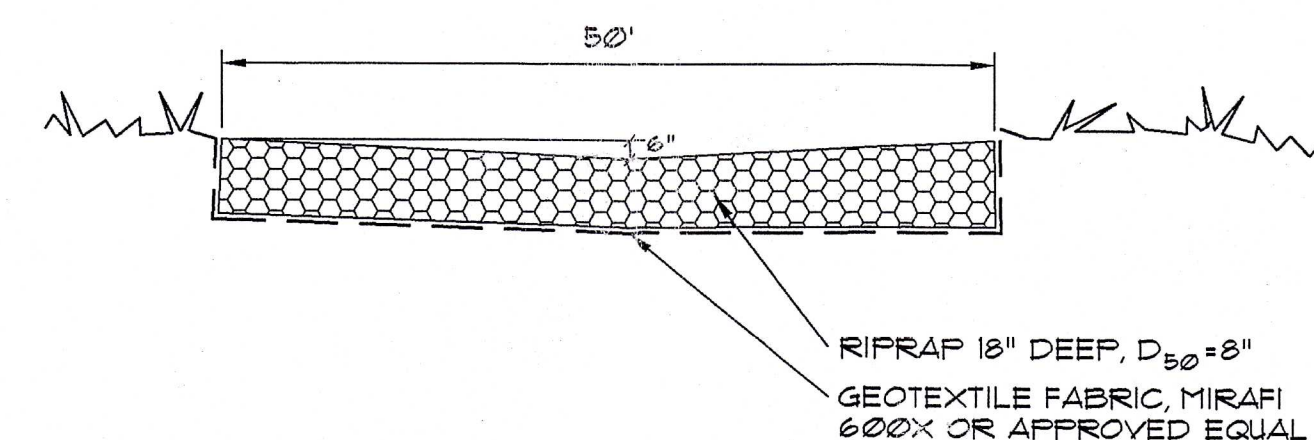
6 LEVEL SPREADER SECTION
NOT TO SCALE



5 4' DIAMETER PRECAST MANHOLE SECTION
NOT TO SCALE

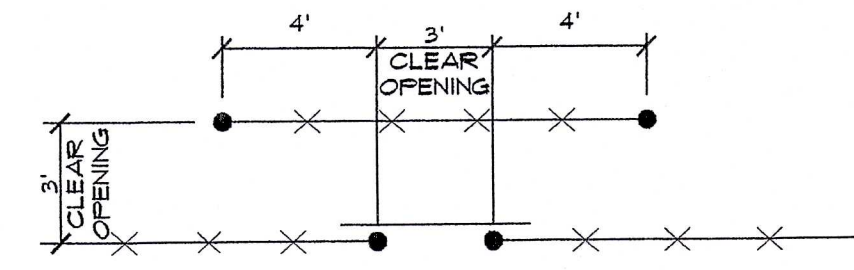


9 CHAINLINK FENCE CORNER & STRAIGHT SECTIONS
NOT TO SCALE

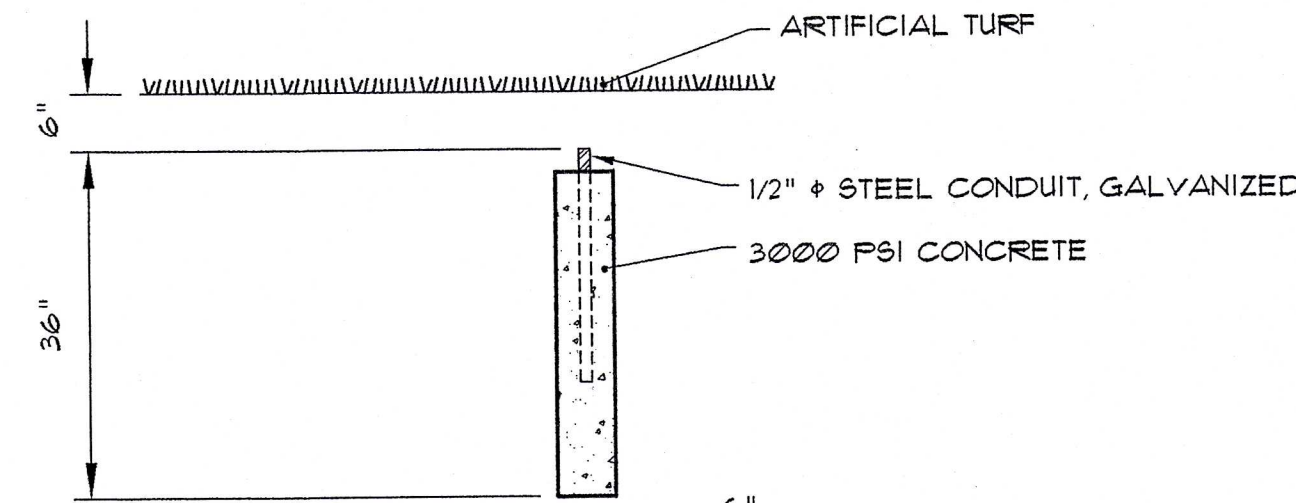


8 DETENTION POND AND EMERGENCY SPILLWAY SECTION
NOT TO SCALE

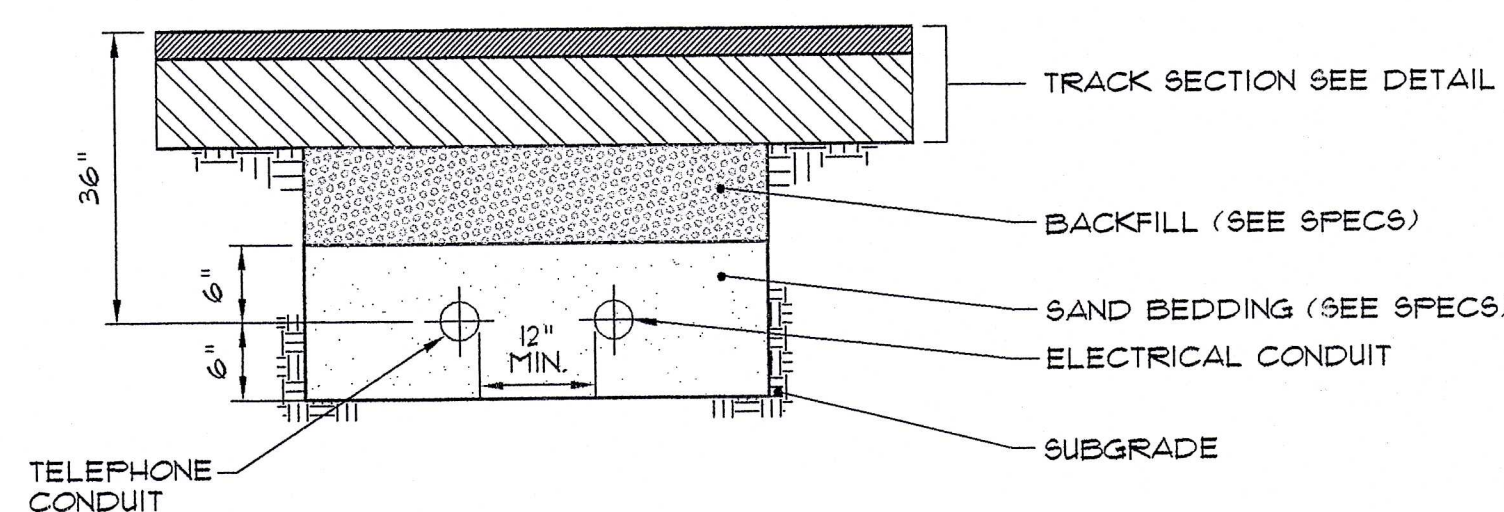
REV.	DATE	DESCRIPTION	
1	2/2/00	REV'D DETAILS 5, 7, 4 & 9	
		TOWN OF YARMOUTH YARMOUTH, MAINE YARMOUTH HIGH SCHOOL ATHLETIC FIELDS CONSULTING ENGINEERS, INC. FALMOUTH, MAINE	
SCALE: 1"=10'		DRN BY: BLD	
DATE: JANUARY 12, 2000		DESIG BY: SES	
PROJECT: 98181		CHK BY: SES	



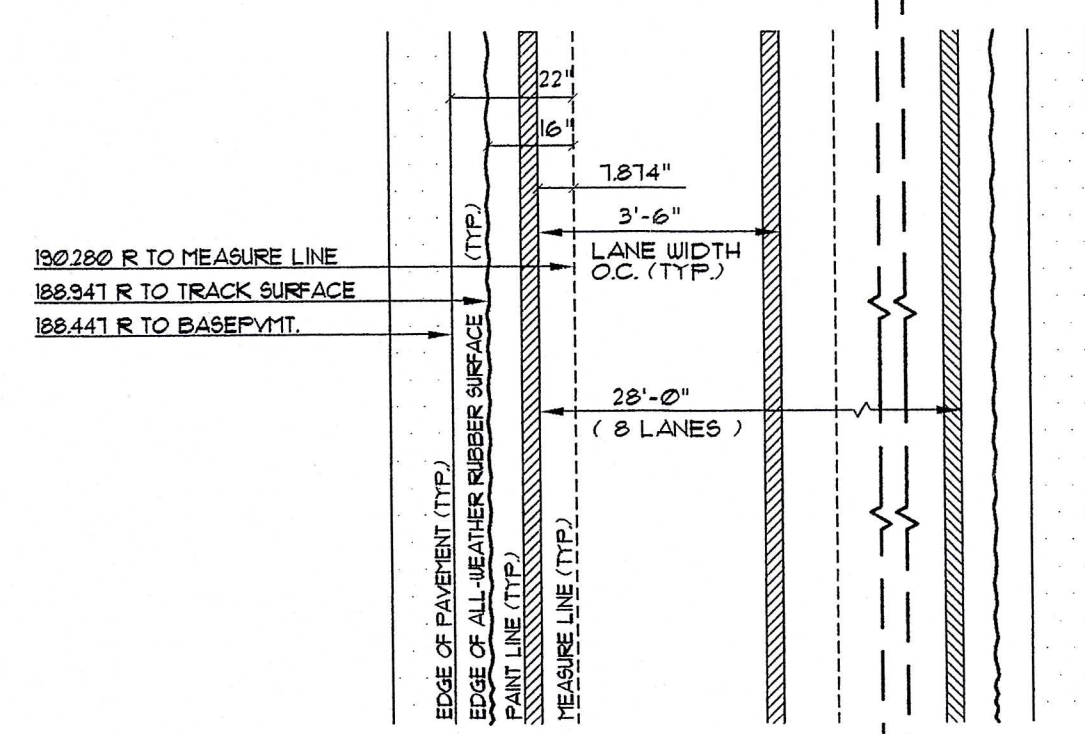
MAZE GATE DETAIL



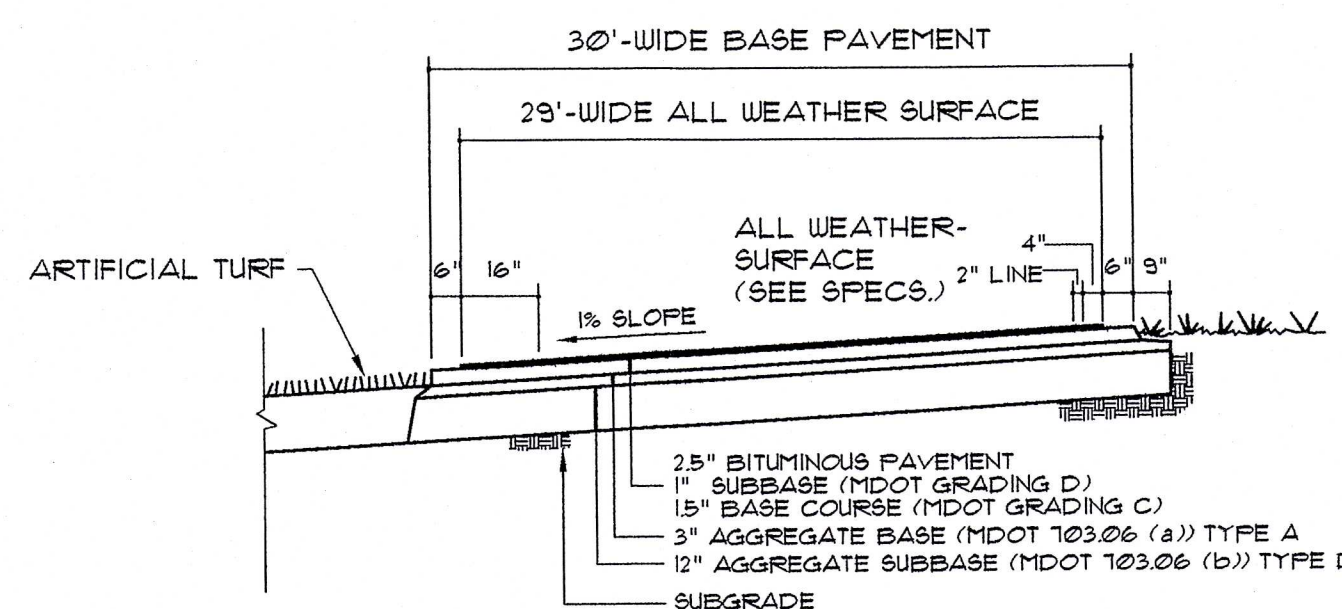
RADIUS POINT (6 REQ'D)



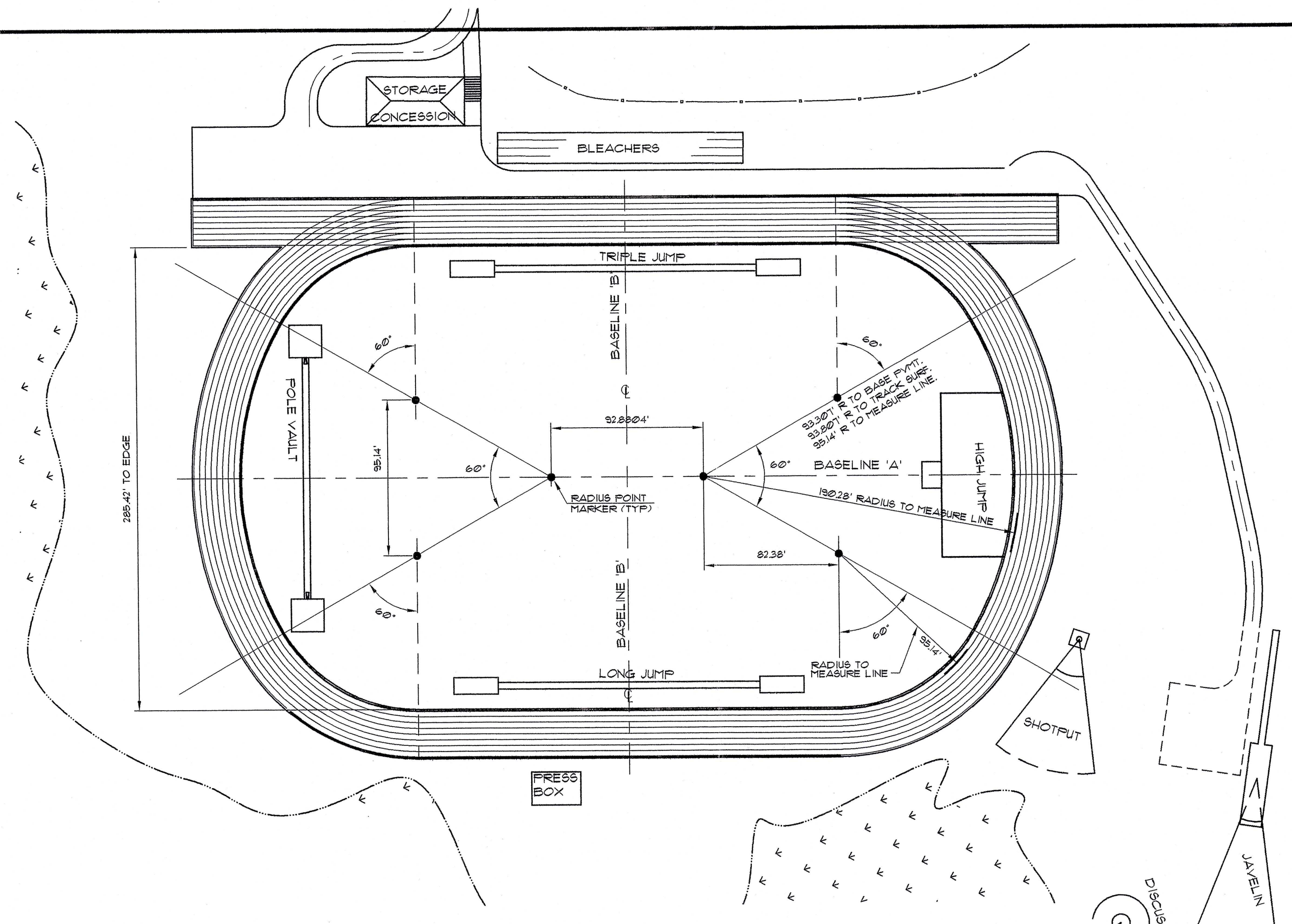
UTILITY CONDUIT TRENCH UNDER TRACK



TRACK LANE LAYOUT DETAIL

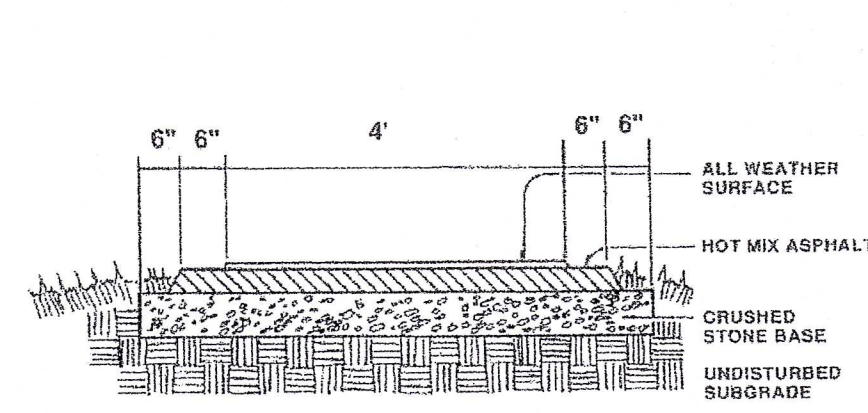


TRACK SECTION

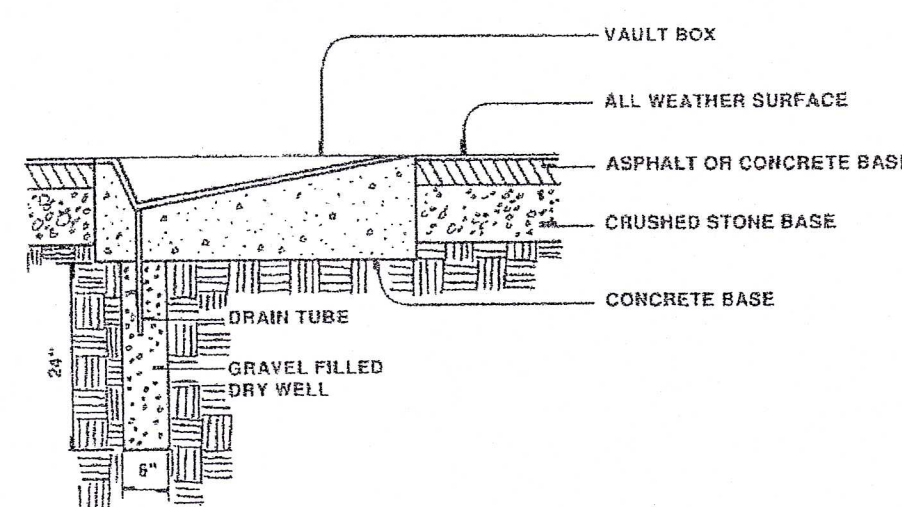


1 TRACK LAYOUT PLAN FOR 8-LANE RUNNING TRACK

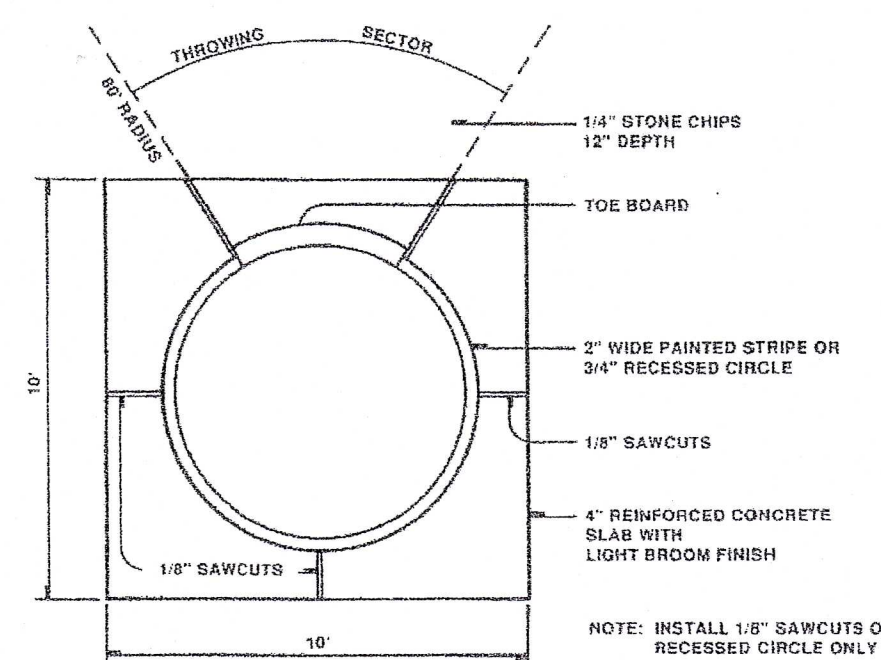
SCALE: 1" = 50'



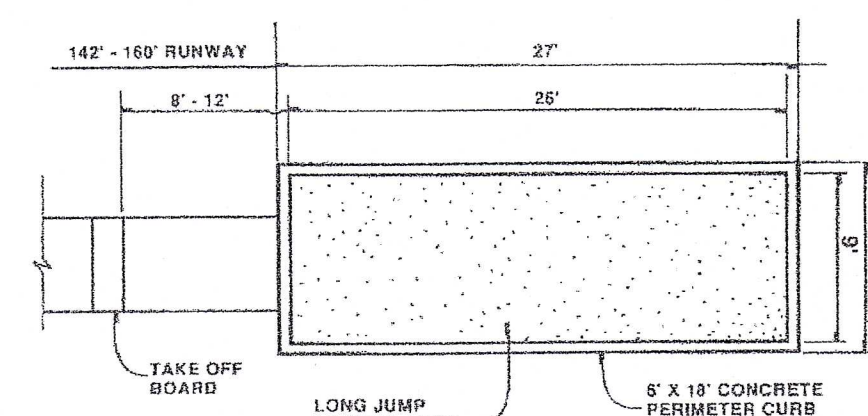
ASPHALT RUNWAY



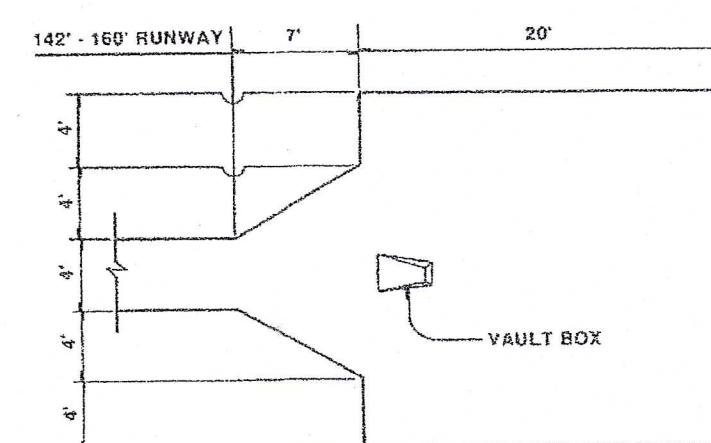
VAULT BOX SECTION



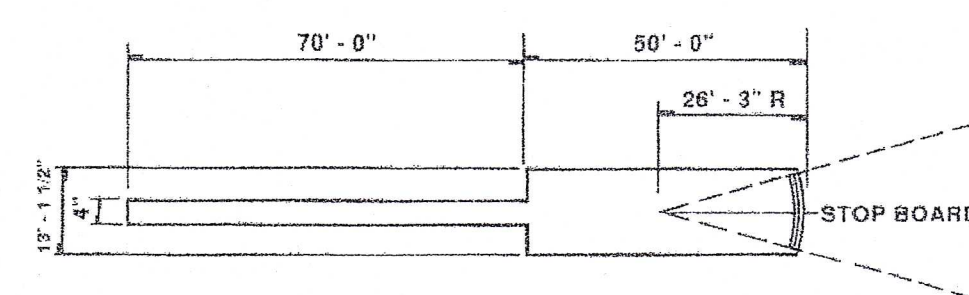
SHOT PUT PAD



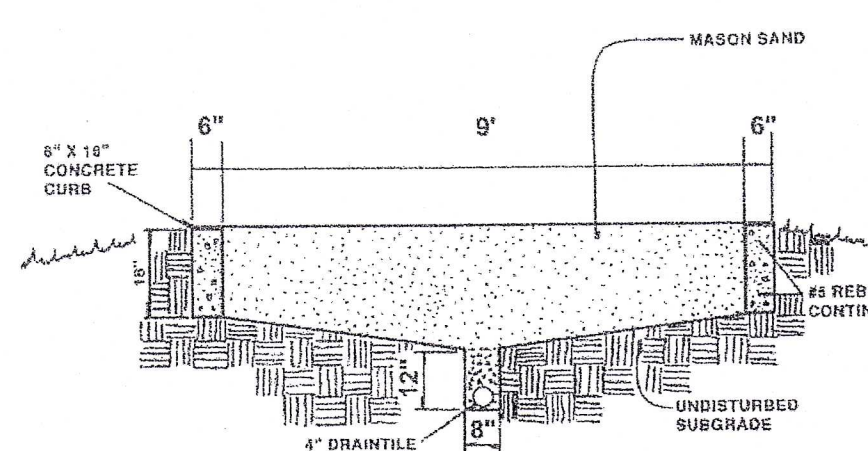
LONG JUMP / TRIPLE JUMP PIT PLAN



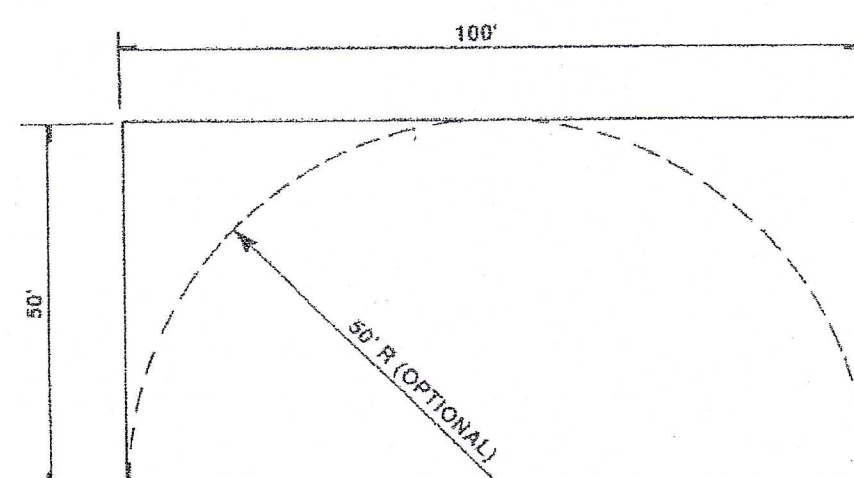
POLE VAULT LANDING AREA DETAIL



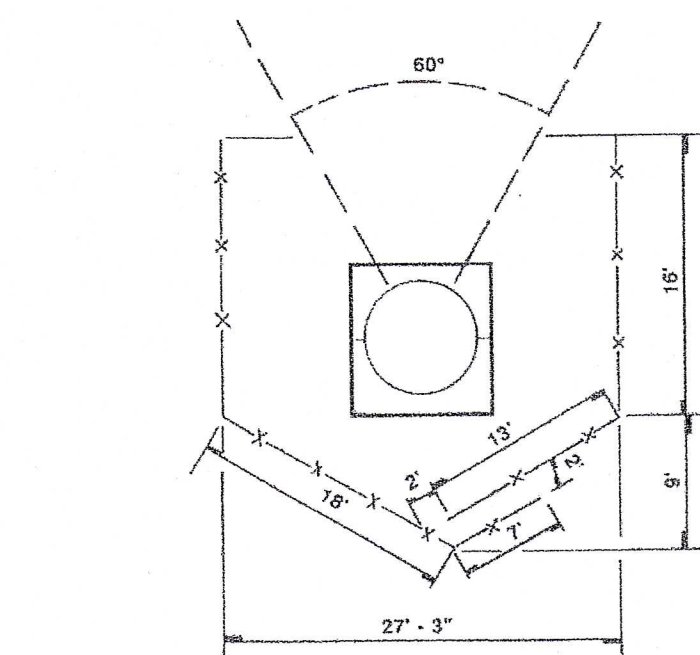
JAVELIN RUNWAY



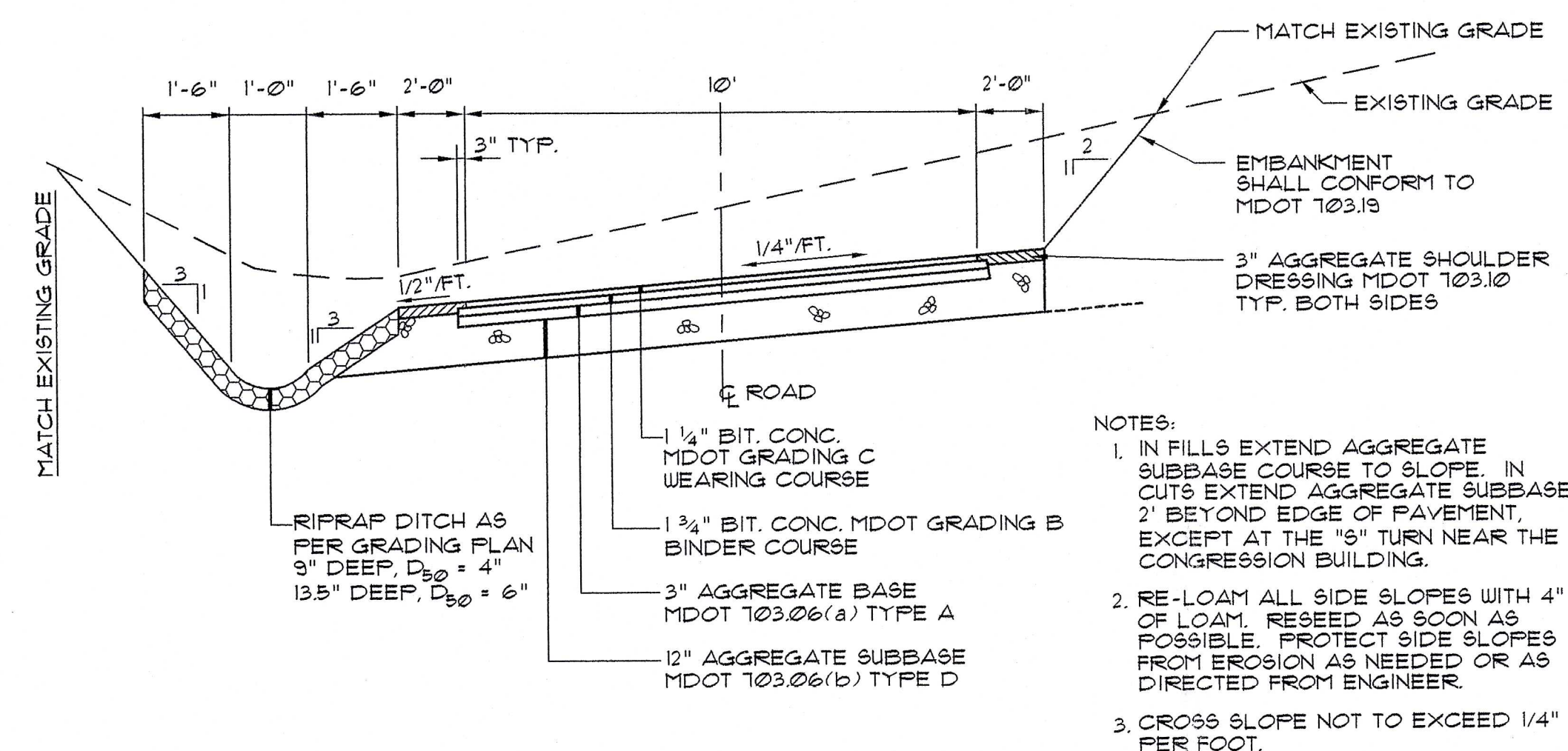
LONG JUMP / TRIPLE JUMP PIT SECTION



HIGH JUMP

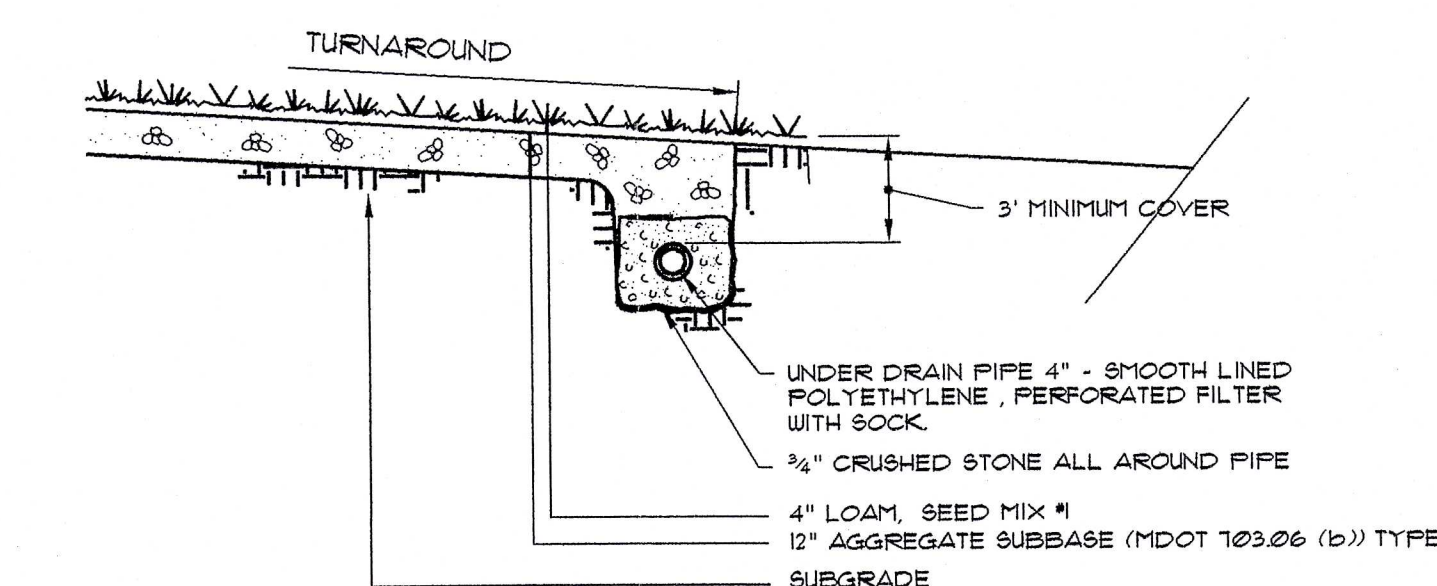


SUGGESTED DISCUS / HAMMER CAGE



3 TYPICAL ACCESS ROAD SECTION

NOT TO SCALE

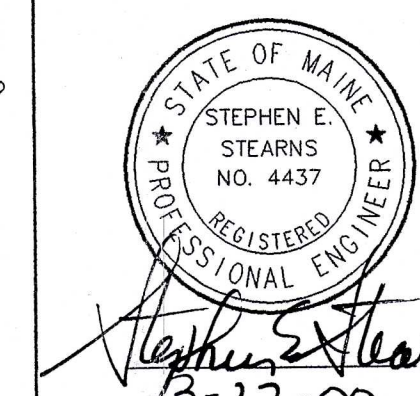


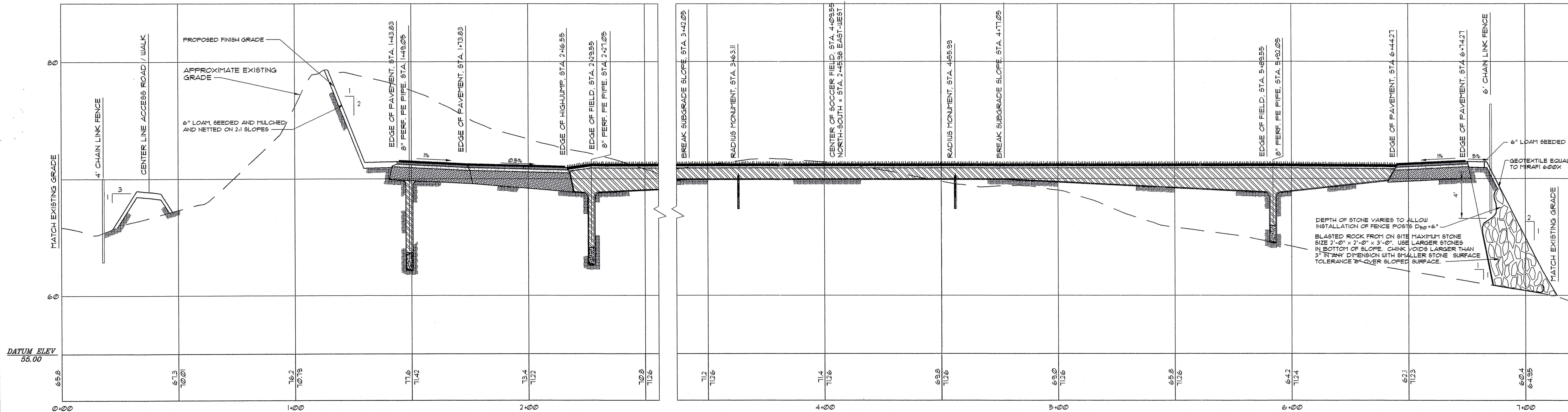
4 TURN AROUND SECTION

NOT TO SCALE



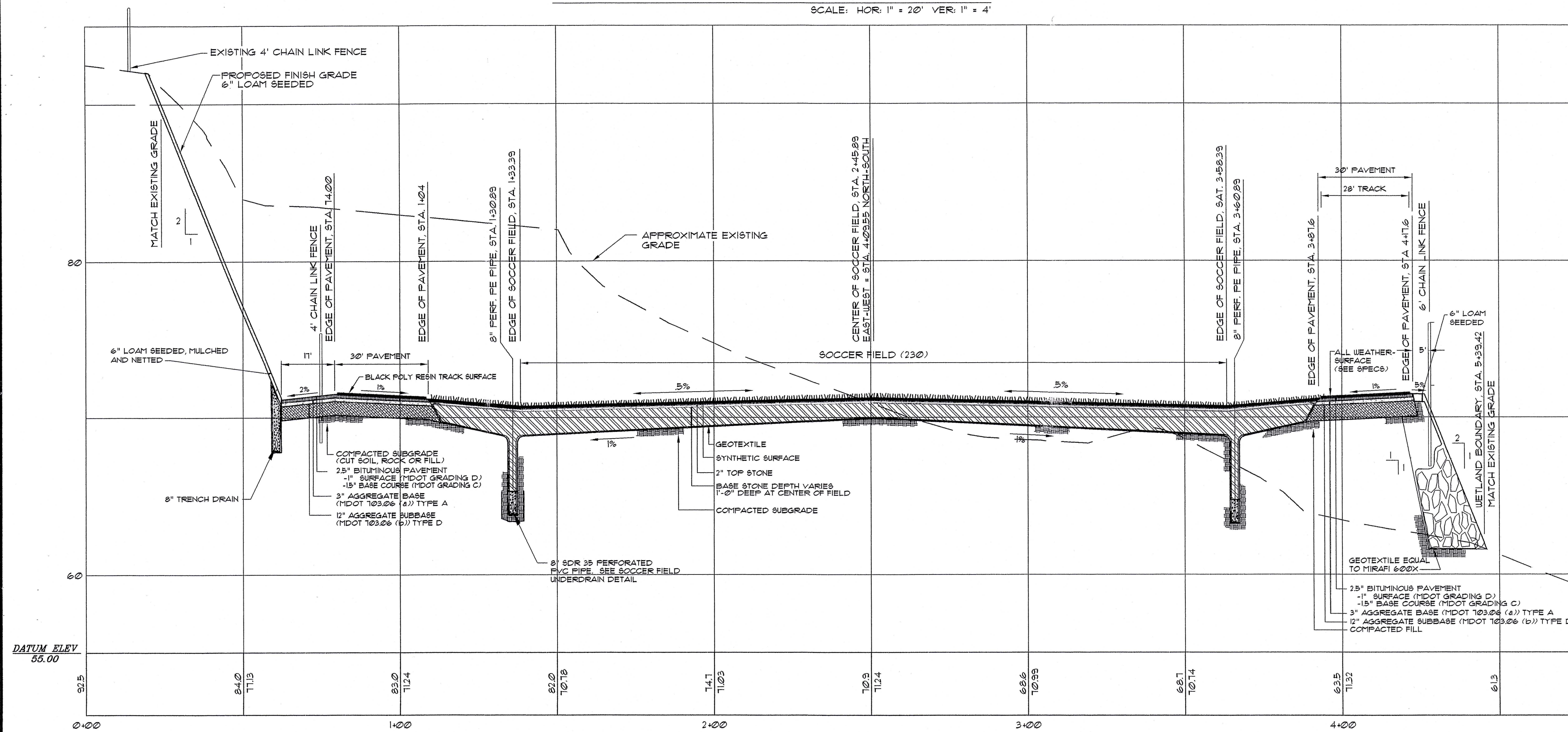
REV.	DATE	DESCRIPTION
4	3/21/00	REV'D DETAIL 1
3	3/15/00	REV'D DETAIL 1
2	2/14/00	REV'D DETAIL 1
1	2/2/00	REV'D DETAILS 2 & 3
TOWN OF YARMOUTH YARMOUTH, MAINE		
TRACK & FIELD PROJECT YARMOUTH HIGH SCHOOL		
PINKHAM & GREER		
CONSULTING ENGINEERS, INC. FALMOUTH, MAINE		
TRACK LAYOUT & DETAILS		
SCALE: 1"=10'	DRN BY: BLD	
DATE: JANUARY 12, 2000	DESG BY: SES	
PROJECT: 98181	CHK BY: SES	





FIELD SECTION AT MID FIELD LOOKING EAST

SCALE: HOR: 1" = 20' VER: 1" = 4'



FIELD SECTION AT MID FIELD LOOKING NORTH

SCALE: HOR: 1" = 20' VER: 1" = 4'

NOTES:
1. DO NOT INSTALL PIPE OR CONDUIT BENEATH THE SOCCER FIELD.

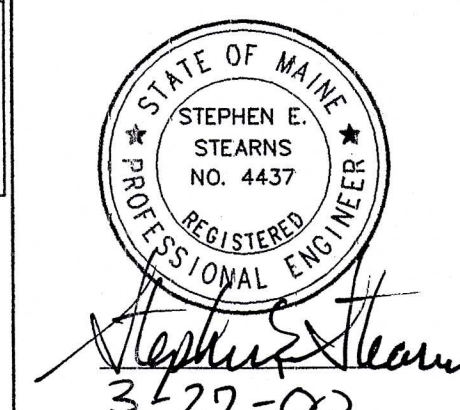


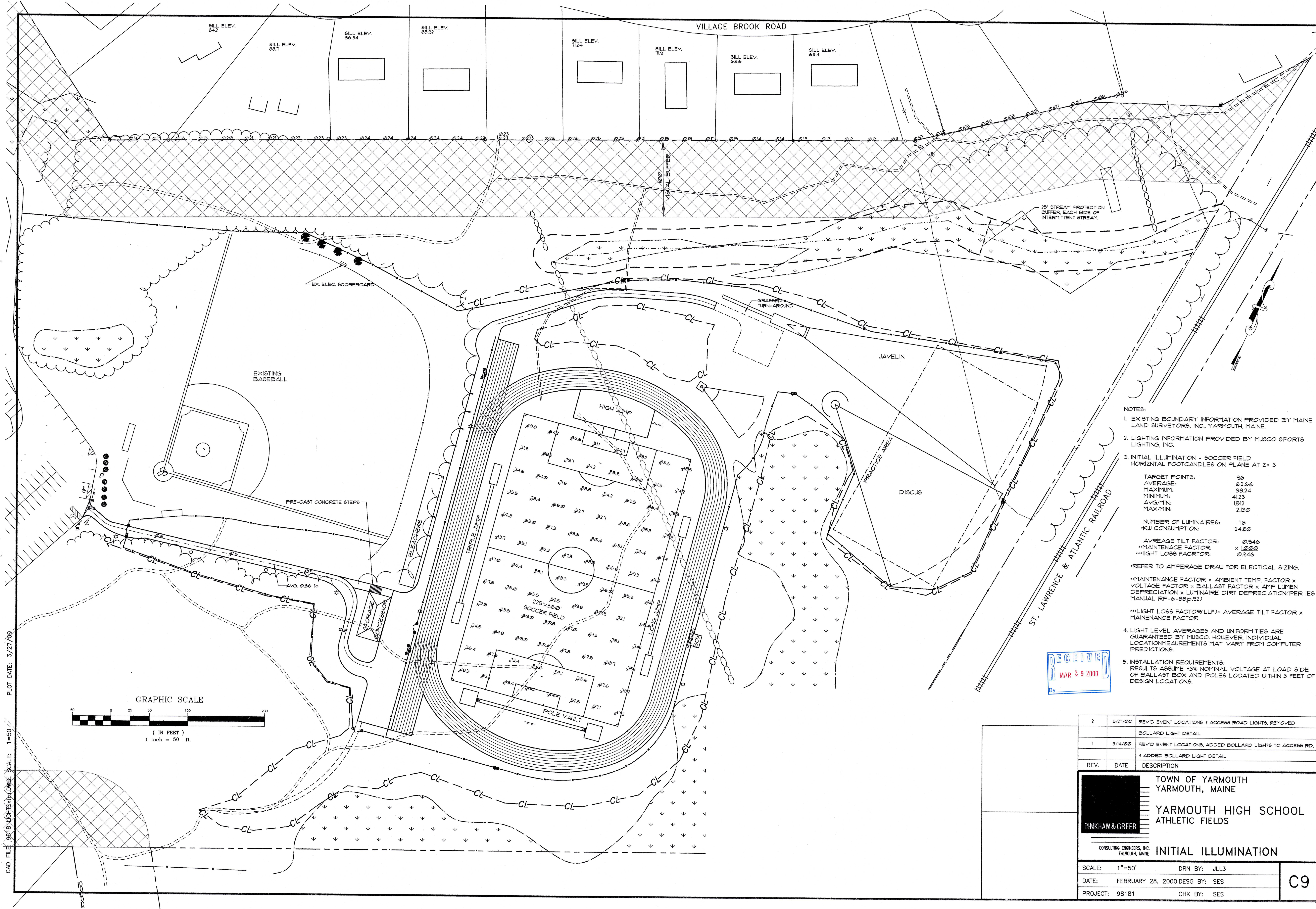
4	3/27/00	MOVED HIGHJUMP
3	3/15/00	MOVED HIGHJUMP INSIDE TRACK
2	2/14/00	REV'D AREA NORTH OF TRACK & MOVED TRACK
		4 SOCCER FIELD 5' EAST
1	2/3/00	LOWERED TRACK & SOCCER FIELD
REV.	DATE	DESCRIPTION

TOWN OF YARMOUTH
YARMOUTH, MAINE
YARMOUTH HIGH SCHOOL
ATHLETIC FIELDS

PINKHAM & GREER
CONSULTING ENGINEERS, INC.
FALMOUTH, MAINE
FIELD SECTIONS

SCALE: AS NOTED DRN BY: BLD
DATE: JANUARY 12, 2000 DESG BY: SES
PROJECT: 98181 CHK BY: SES





NOTES:

- EXISTING BOUNDARY INFORMATION PROVIDED BY MAINE LAND SURVEYORS, INC., YARMOUTH, MAINE.
- LIGHTING INFORMATION PROVIDED BY MUSCO SPORTS LIGHTING, INC.
- INITIAL ILLUMINATION - SOCCER FIELD
HORIZONTAL FOOTCANDLES ON PLANE AT Z = 3

TARGET POINTS:	36
AVERAGE:	62.66
MAXIMUM:	88.24
MINIMUM:	41.23
AVG/MIN:	1512
MAX/MIN:	2130

NUMBER OF LUMINAIRES:	18
KW CONSUMPTION:	124.80

AVREAGE TILT FACTOR: 0.346
**MAINTENANCE FACTOR: x 1.220
***LIGHT LOSS FACTOR: 0.346

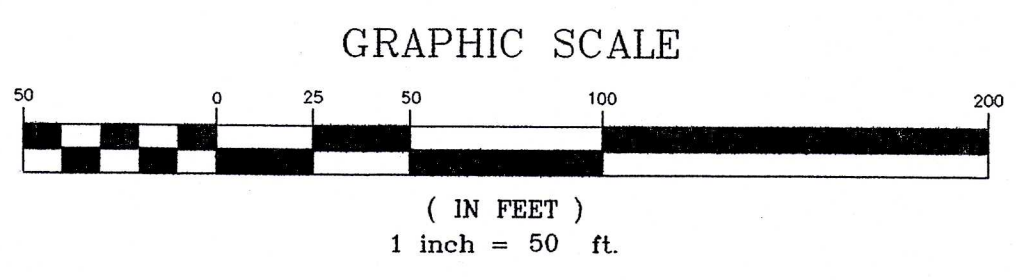
REFER TO AMPERAGE DRAW FOR ELECTRICAL SIZING.

**MAINTENANCE FACTOR = AMBIENT TEMP. FACTOR x VOLTAGE FACTOR x BALLAST FACTOR x AMP LUMEN DEPRECIATION x LUMINAIRE DIRT DEPRECIATION (PER IES MANUAL RP-6-88 p.92)

***LIGHT LOSS FACTOR (LLF) = AVERAGE TILT FACTOR x MAINTENANCE FACTOR

- LIGHT LEVEL AVERAGES AND UNIFORMITIES ARE GUARANTEED BY MUSCO. HOWEVER, INDIVIDUAL LOCATION MEASUREMENTS MAY VARY FROM COMPUTER PREDICTIONS.
- INSTALLATION REQUIREMENTS:
RESULTS ASSUME +3% NOMINAL VOLTAGE AT LOAD SIDE OF BALLAST BOX AND POLES LOCATED WITHIN 3 FEET OF DESIGN LOCATIONS.

RECEIVED
MAR 29 2000
By



2	3/21/00	REV'D EVENT LOCATIONS & ACCESS ROAD LIGHTS, REMOVED
		BOLLARD LIGHT DETAIL
1	3/14/00	REV'D EVENT LOCATIONS, ADDED BOLLARD LIGHTS TO ACCESS RD.
		4 ADDED BOLLARD LIGHT DETAIL
REV.	DATE	DESCRIPTION

PINKHAM & GREER

TOWN OF YARMOUTH
YARMOUTH, MAINE

YARMOUTH HIGH SCHOOL
ATHLETIC FIELDS

CONSULTING ENGINEERS, INC.
YARMOUTH, MAINE

INITIAL ILLUMINATION

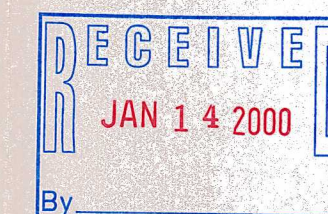
SCALE: 1"=50'	DRN BY: JLL3
DATE: FEBRUARY 28, 2000	DESIGN BY: SES
PROJECT: 98181	CHK BY: SES

CAD FILE: 98181 LIGHTS.dwg SCALE: 1"=50' PLOT DATE: 3/27/00

CAD FILE: 98181BASE.dwg FILE SCALE: 1"=50' PLOT DATE: 3/14/00



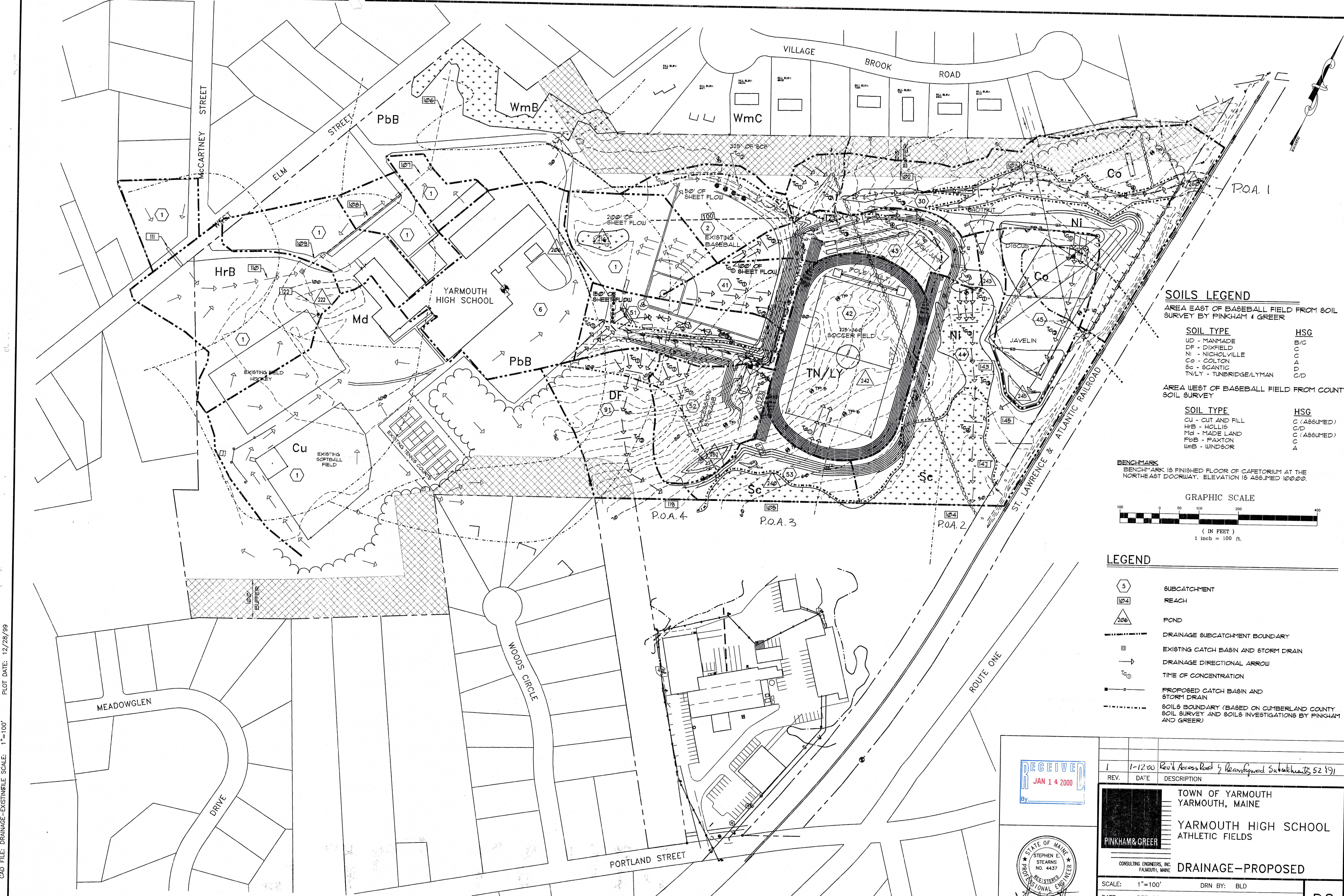
CAD FILE: DRAINAGE-EXISTING.DWG SCALE: 1"=100' PLOT DATE: 01/12/00



REV.	DATE	DESCRIPTION
		TOWN OF YARMOUTH YARMOUTH, MAINE
		YARMOUTH HIGH SCHOOL ATHLETIC FIELDS
		PINKHAM & GREER
		CONSULTING ENGINEERS, INC. FALMOUTH, MAINE
		DRAINAGE-EXISTING
SCALE:	1"=100'	DRN BY: BLD
DATE:	JANUARY 12, 2000	DESIGN BY: SES
PROJECT:	98181	CHK BY: SES

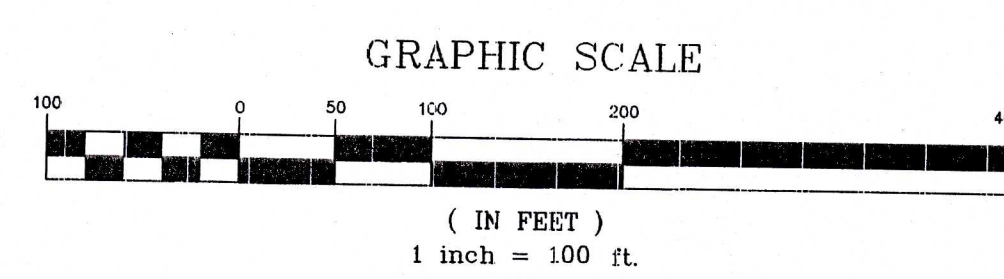
D1

CAD FILE: DRAINAGE-EXISTING.DWG SCALE: 1"=100' PLOT DATE: 12/28/99



SOILS LEGEND	
AREA EAST OF BASEBALL FIELD FROM SOIL SURVEY BY PINKHAM & GREER	
SOIL TYPE	HSG
UD - MANMADE	B/C
DF - DIXFIELD	C
NI - NICHOLVILLE	C
Co - COLTON	A
Sc - SCANTIC	D
TN/LY - TUNBRIDGE/LYMAN	C/D
AREA WEST OF BASEBALL FIELD FROM COUNTY SOIL SURVEY	
SOIL TYPE	HSG
CU - CUT AND FILL	C (ASSUMED)
HRB - HOLLIS	C/D
MD - MADE LAND	C (ASSUMED)
PBB - PAXTON	C
WMB - WINDSOR	A

BENCHMARK
BENCHMARK IS FINISHED FLOOR OF CAFETERIA AT THE NORTHEAST DOORWAY. ELEVATION IS ASSUMED 100.00.



LEGEND	
	SUBCATCHMENT
	REACH
	POND
	DRAINAGE SUBCATCHMENT BOUNDARY
	EXISTING CATCH BASIN AND STORM DRAIN
	DRAINAGE DIRECTIONAL ARROW
	TIME OF CONCENTRATION
	PROPOSED CATCH BASIN AND STORM DRAIN
	SOILS BOUNDARY (BASED ON CUMBERLAND COUNTY SOIL SURVEY AND SOILS INVESTIGATIONS BY PINKHAM AND GREER)

RECEIVED
JAN 14 2000
By

STATE OF MAINE
STEPHEN E. STEARNS
NO. 4437
REGISTERED PROFESSIONAL ENGINEER

1	1-12-00	Rev'd Access Road & Reconfigured Subcatchments 52 191
REV.	DATE	DESCRIPTION
TOWN OF YARMOUTH YARMOUTH, MAINE		
YARMOUTH HIGH SCHOOL ATHLETIC FIELDS		
PINKHAM & GREER		
CONSULTING ENGINEERS, INC. FALMOUTH, MAINE		
DRAINAGE-PROPOSED		
SCALE:	1"=100'	DRN BY: BLD
DATE:	DEC 28, 1999	DESG BY: SES
PROJECT:	98181	CHK BY:

D2

1-12-00