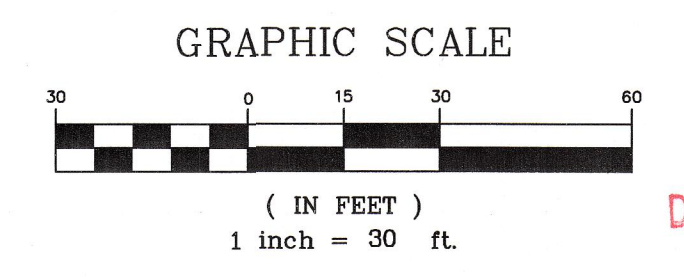


- NOTES:**
1. BASE TOPOGRAPHIC INFORMATION OBTAINED FROM SEBAGO TECHNICS.
 2. UTILITY INFORMATION IN THE AREA OF HOME OFFICE #2 OBTAINED BY DeLUCA-HOFFMAN ASSOCIATES, INC. AND HAGAR RICHTER AS PART OF THE CENTRALIZED MECHANICAL PROJECT IN 2003.
 3. WETLAND DELINEATION PERFORMED BY NORMANDEAU ASSOCIATES, INC. AND LOCATED BY GPS.
 4. TOTAL WETLAND IMPACT = 644 S.F.
 5. LIMIT OF WORK, GRADING AND CLEARING SHALL NOT EXTEND INTO WETLAND AREAS EXCEPT AT ROADWAY DITCH AND RIPRAP OUTLET FROM STORMTECH SYSTEM.



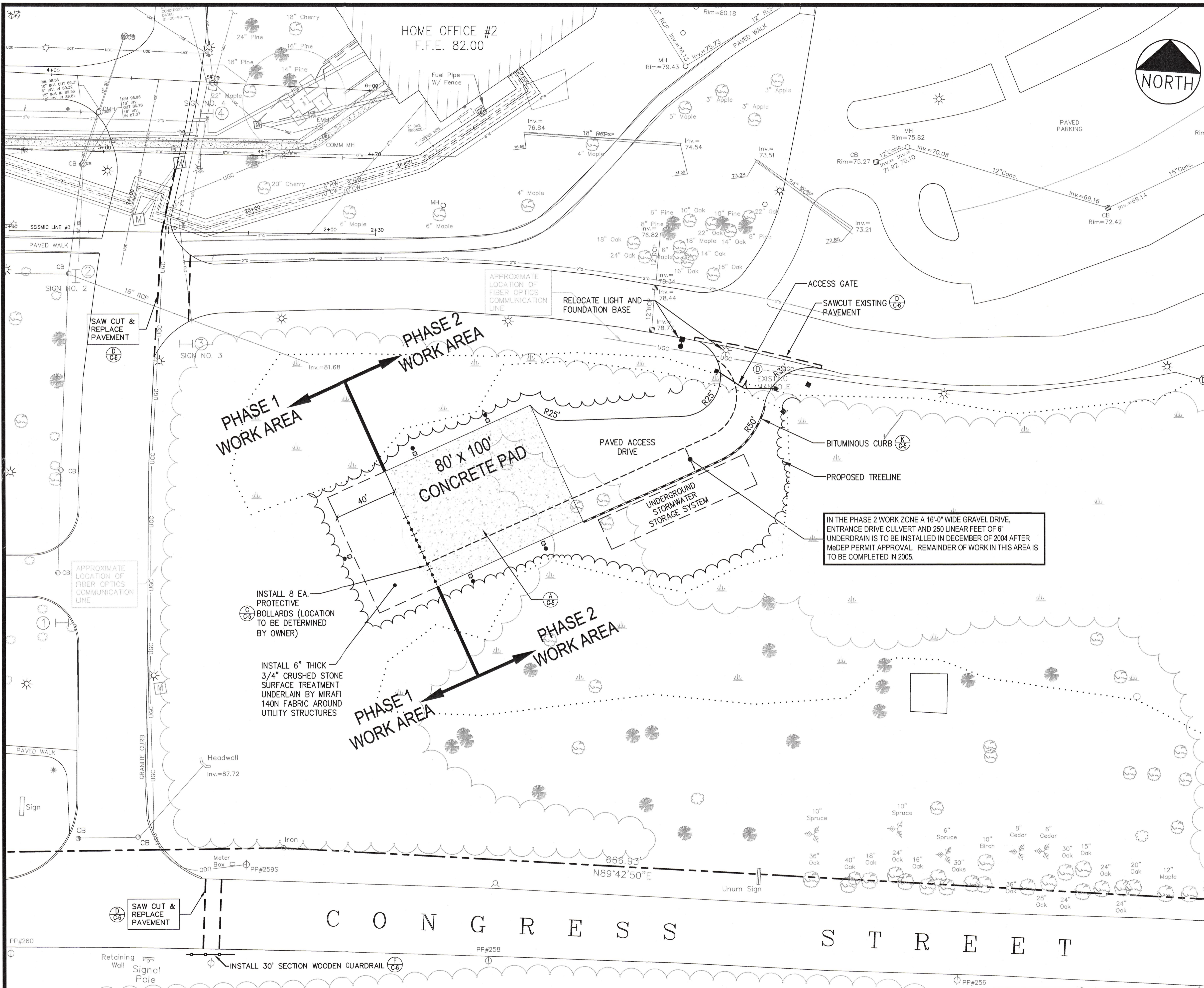
CITY OF SEBAGO AND APPROVED 9/14/04
 Subject to Dept. Comments
 Date of Approval: 9/14/04

*** THIS DRAWING HAS BEEN PREPARED FOR REVIEW BY THE CITY OF PORTLAND AND FOR REVIEW OF A MeDEP SITE LOCATION OF DEVELOPMENT PERMIT MODIFICATION (PHASE 1) AND AMENDMENT (PHASE 2). THE INFORMATION ON THIS DRAWING IS NOT TO BE USED FOR OTHER PURPOSES OR CONSTRUCTION UNTIL REQUIRED PERMITS HAVE BEEN SECURED BY THE OWNER.**

REV	DATE	DESCRIPTION
4	09/20/04	REVISED PER MeDEP COMMENTS
3	09/08/04	ISSUED FOR CONSTRUCTION*
2	08/13/04	PHASING NOTES ADDED
1	07/16/04	SUBMITTED TO CITY AND MeDEP FOR APPROVAL

REVISIONS

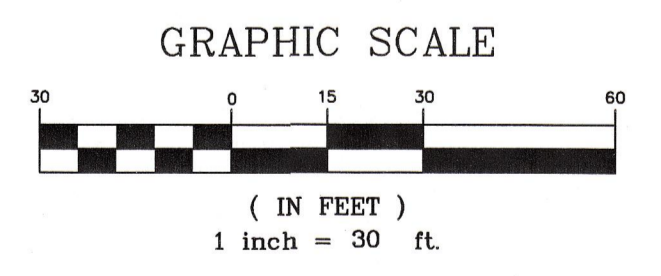
	PROJECT	EMERGENCY GENERATOR PAD
	SHEET TITLE	EXISTING CONDITIONS PLAN AND PHASING
	CLIENT	UNUM LIFE INSURANCE
	DESIGNED: DDA	SCALE: 1" = 30'
	CHECKED: WGH	JOB NO. 2445
	FILE NAME: 2445-SP	
	SHEET	C1



- NOTES:**
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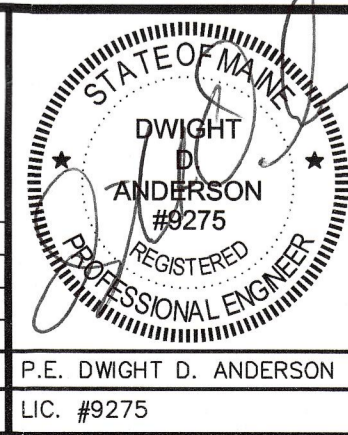
IN THE PHASE 2 WORK ZONE A 16'-0" WIDE GRAVEL DRIVE, ENTRANCE DRIVE CULVERT AND 250 LINEAR FEET OF 6" UNDERDRAIN IS TO BE INSTALLED IN DECEMBER OF 2004 AFTER MeDEP PERMIT APPROVAL. REMAINDER OF WORK IN THIS AREA IS TO BE COMPLETED IN 2005.

CITY OF PORTLAND
APPROVED SITE PLAN
Subject to Dept. Conditions
Date of Approval: 9-14-04



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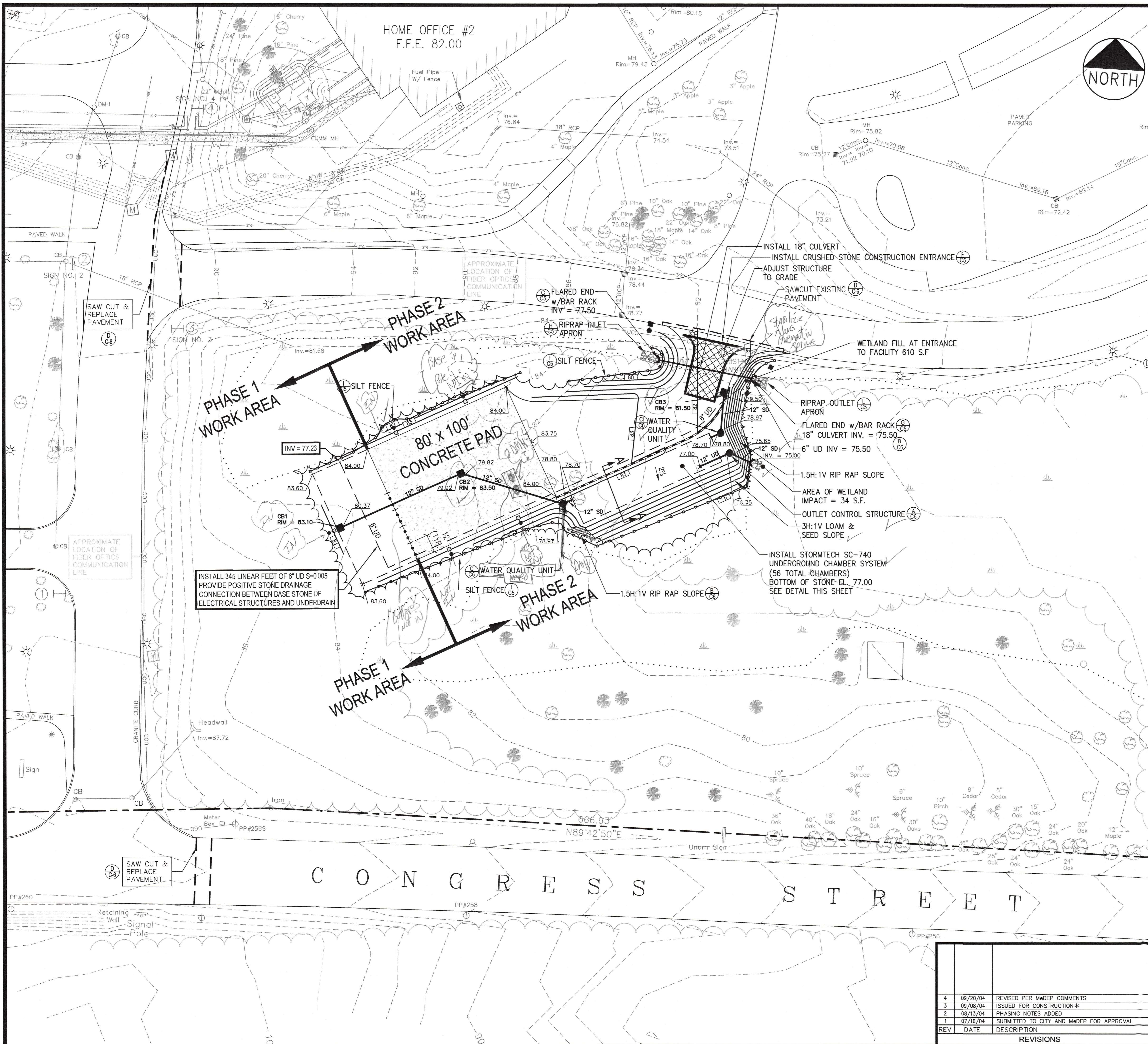
REV	DATE	DESCRIPTION
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PROJECT: EMERGENCY GENERATOR PAD
SHEET TITLE: SITE LAYOUT PLAN
CLIENT: UNUM LIFE INSURANCE

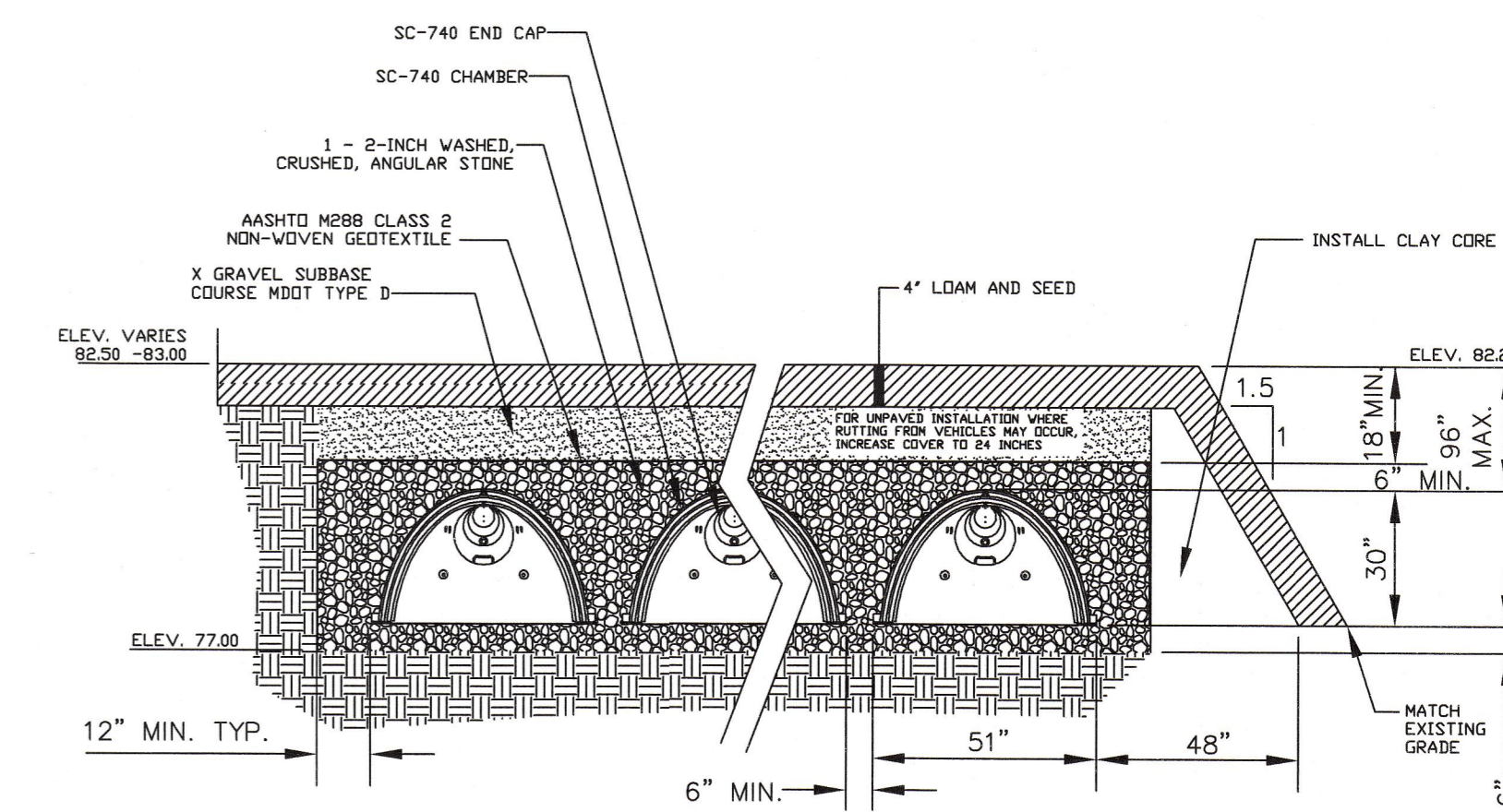
DeLUCA-HOFFMAN ASSOCIATES, INC.
778 MAIN STREET, SUITE 8
SOUTH PORTLAND, ME 04106
(207) 775-1101
WWW.DELUCAHOFFMAN.COM

DRAWN: LA/CDD DATE: FEBRUARY 2004
DESIGNED: DDA SCALE: 1" = 30'
CHECKED: WGH JOB NO. 2445
FILE NAME: 2445-SP
SHEET C2



NOTES:

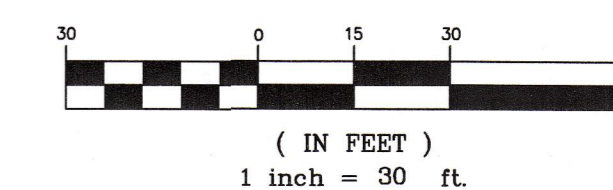
1. BASE TOPOGRAPHIC INFORMATION OBTAINED FROM SEBAGO TECHNICS.
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3. WETLAND DELINEATION PERFORMED BY NORMANDEAU ASSOCIATES, INC. AND LOCATED BY GPS.
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5. LIMIT OF WORK, GRADING AND CLEARING SHALL NOT EXTEND INTO WETLAND AREAS EXCEPT AT ROADWAY DITCH AND RIPRAP OUTLET FROM STORMTECH SYSTEM.



NOTE:
AN ISOLATOR ROW, INSPECTION PORT AND CLEANOUTS AT EACH END OF THE ISOLATOR ROW ARE REQUIRED FOR THIS STORMTECH SYSTEM. A HEADER MANFOLD IS ALSO REQUIRED AT EACH END OF THE SYSTEM. THE CONTRACTOR IS REQUIRED TO SUBMIT SHOP DRAWINGS FOR REVIEW FOR THESE COMPONENTS OF THE SYSTEM.

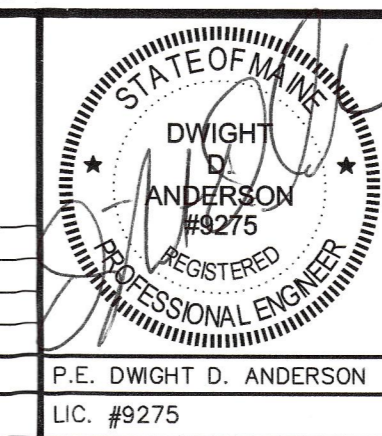
CITY OF PORTLAND
APPROVED SITE PLAN
Subject to Dept. Conditions
Date of Approval: 9-14-04

GRAPHIC SCALE



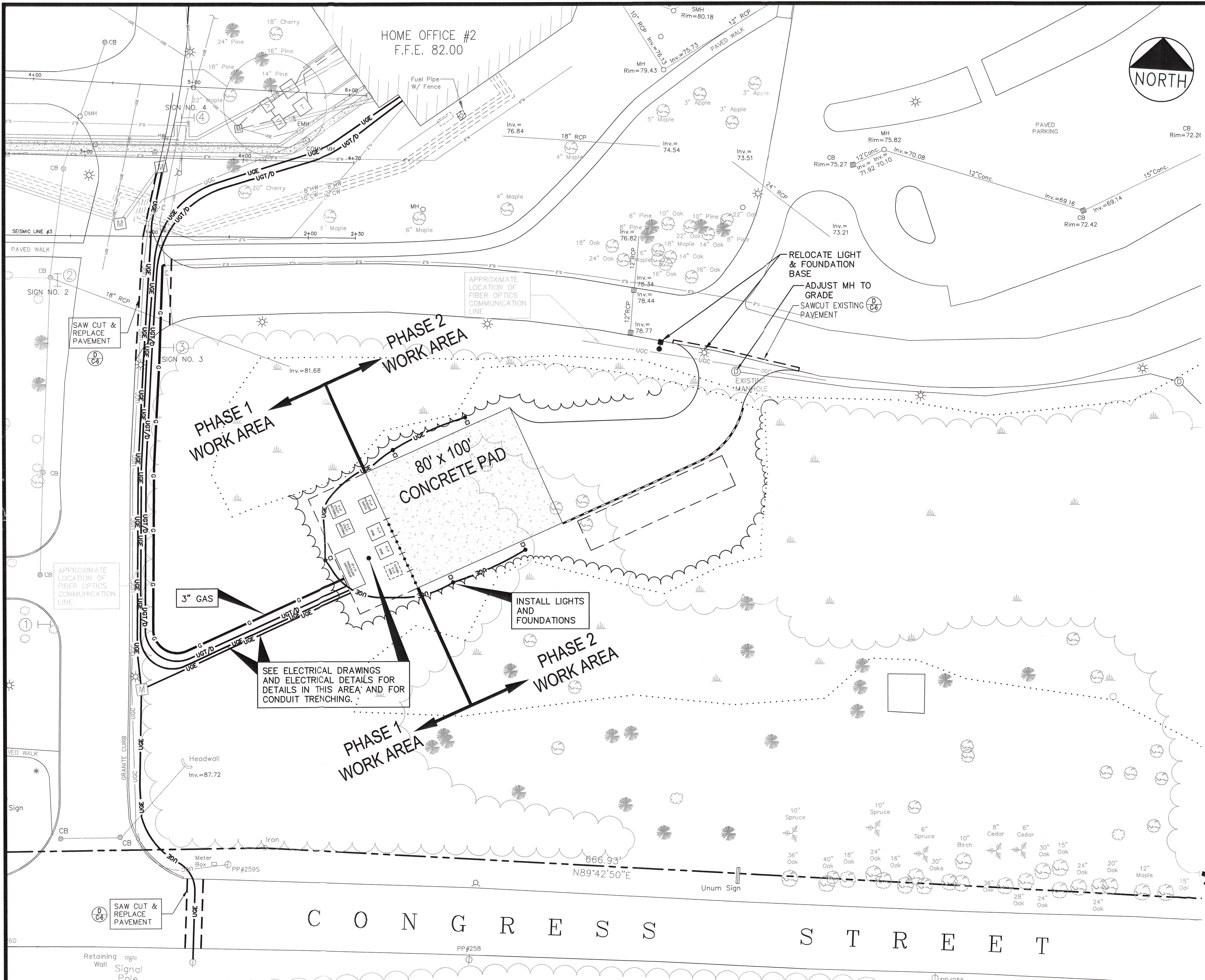
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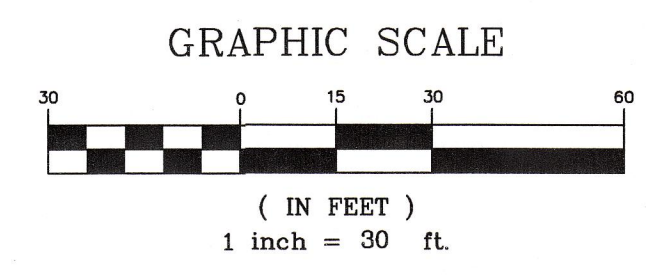
PROJECT	EMERGENCY GENERATOR PAD
SHEET TITLE	GRADING, DRAINAGE AND EROSION CONTROL PLAN
CLIENT	UNUM LIFE INSURANCE

DESIGNED:	DDA	DATE:	FEBRUARY 2004
CHECKED:	WGH	SCALE:	1" = 30'
FILE NAME:	2445-SP	JOB NO.:	2445
SHEET	C3		



- NOTES:**
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CITY OF PORTLAND
 APPROVED SITE PLAN
 Subject to Dept. Conditions
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P.E. DWIGHT D. ANDERSON
 LIC. #9275

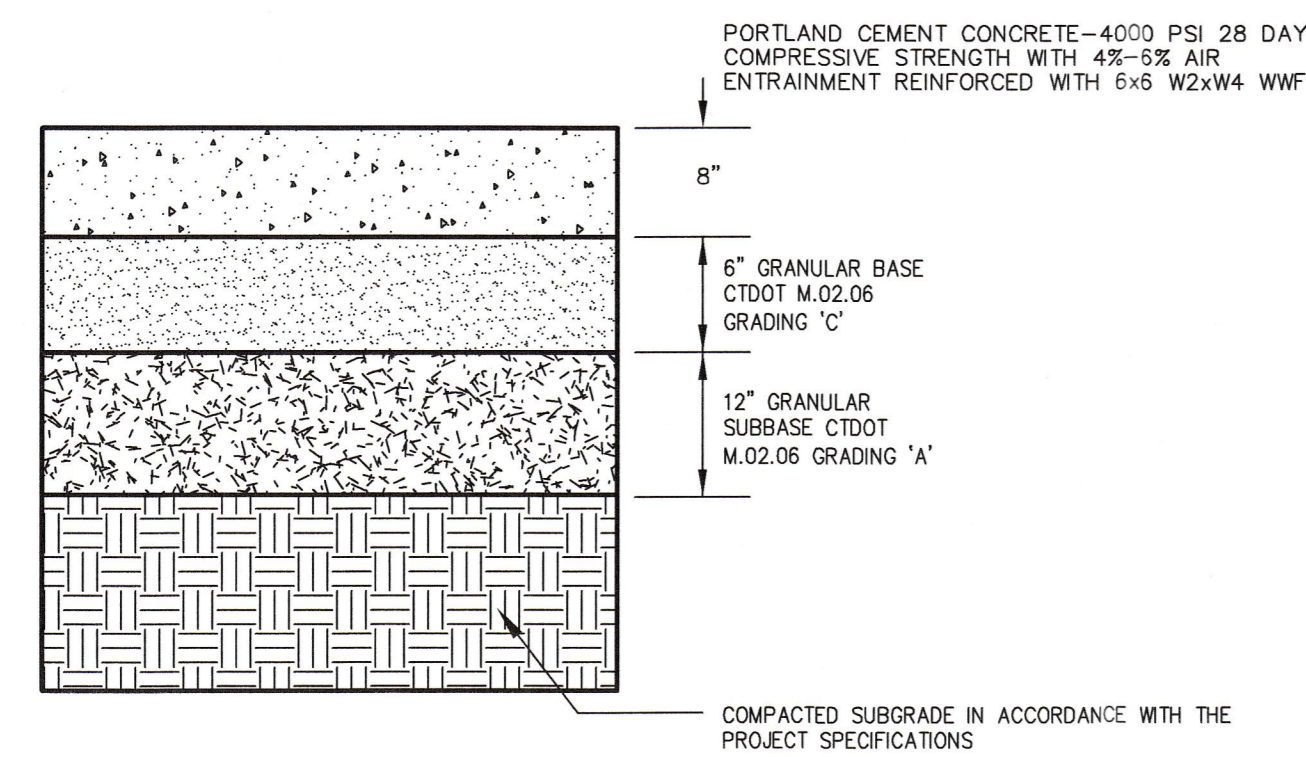
PROJECT: EMERGENCY GENERATOR PAD
 SHEET TITLE: UTILITY PLAN
 CLIENT: UNUM LIFE INSURANCE

DeLUCA-HOFFMAN ASSOCIATES, INC.
 778 MAIN STREET, SUITE 8
 SOUTH PORTLAND, ME 04106
 (207) 775-1121
 WWW.DELUCAHOFFMAN.COM

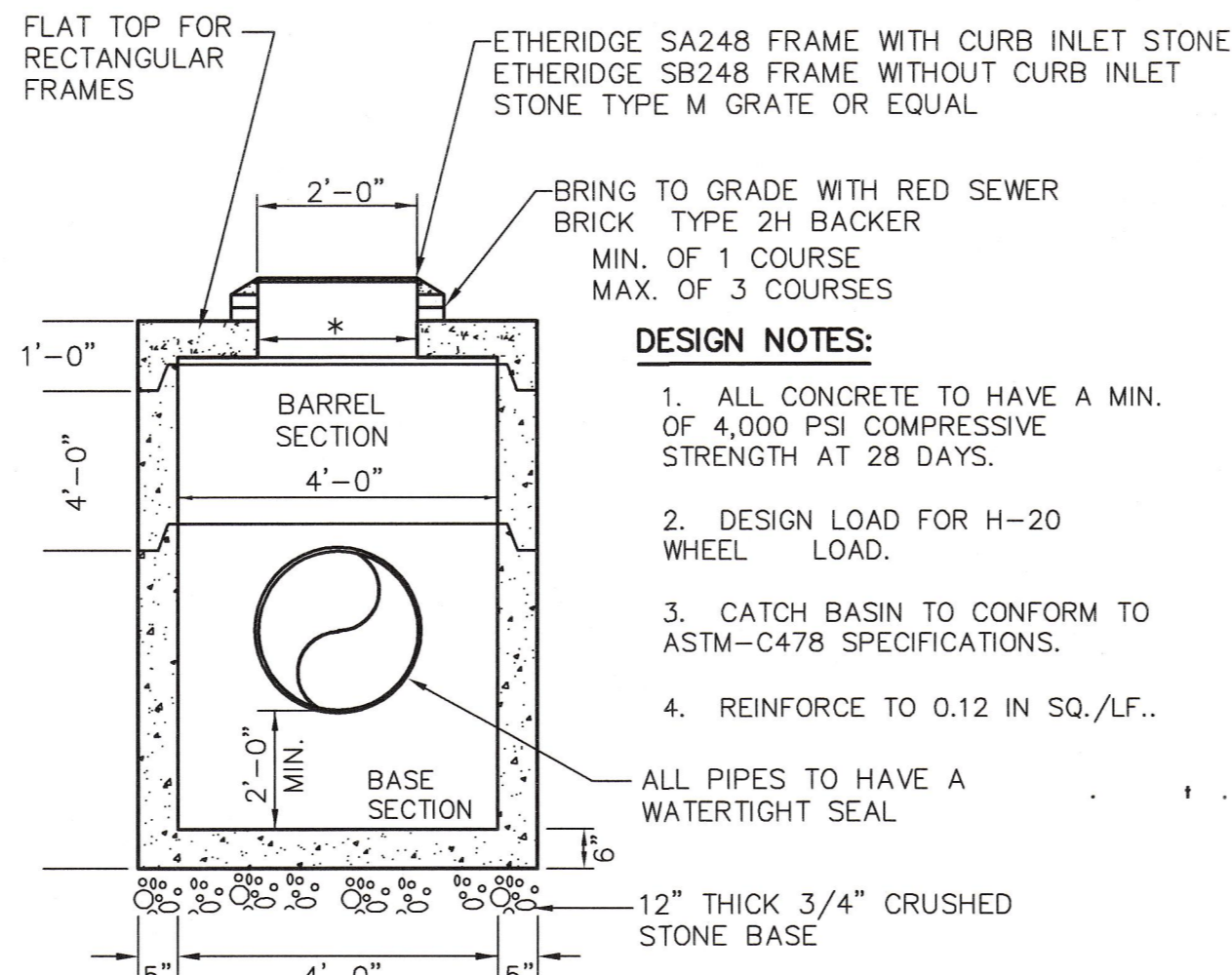
DRAWN: LACDD DATE: FEBRUARY 2004
 DESIGNED: DDA SCALE: 1" = 30'
 CHECKED: DDA JOB NO. 2445
 FILE NAME: 2445-SP
 SHEET C4

C O N G R E S S S T R E E T

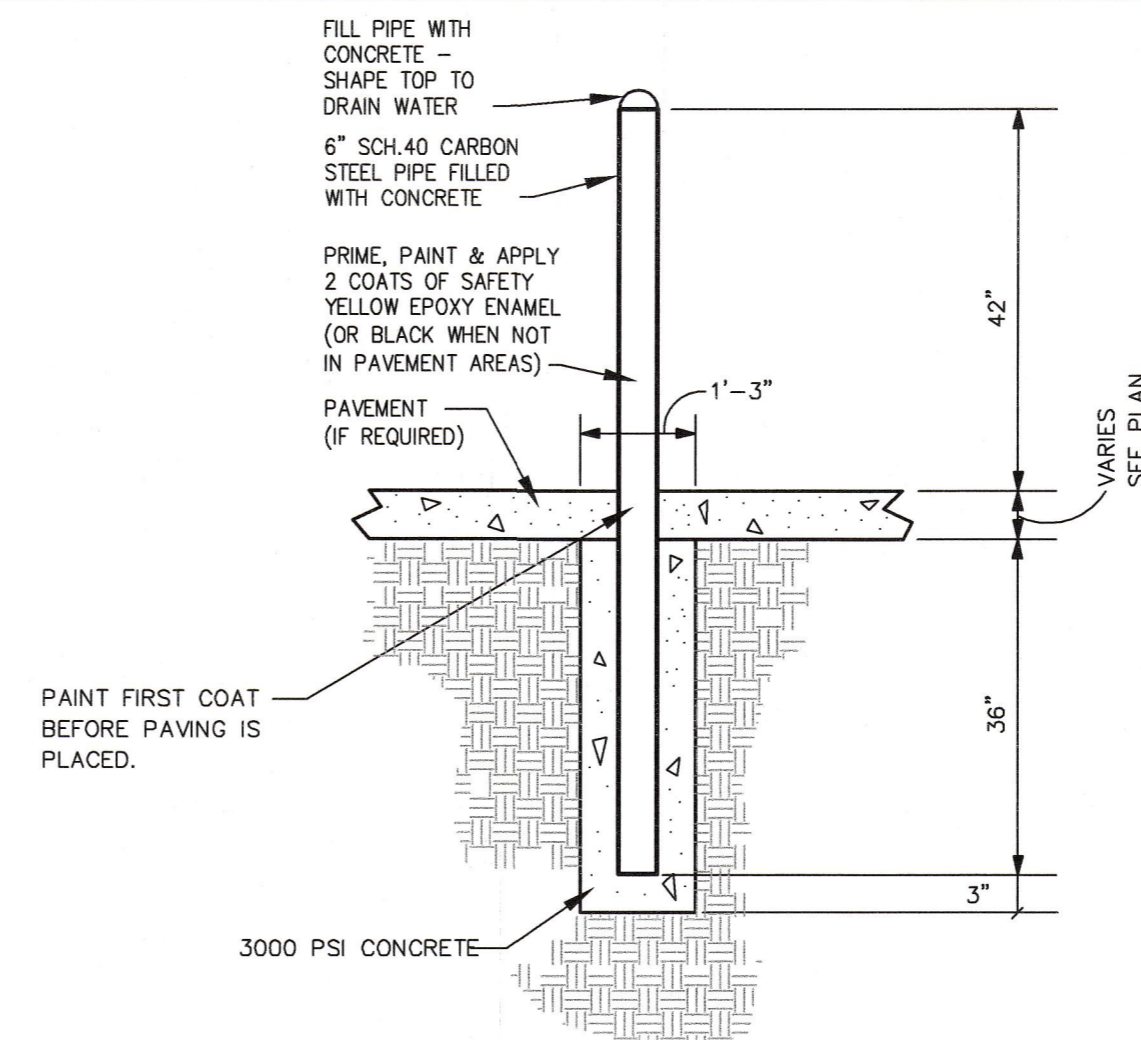
NOTES:
 1. CONCRETE PAVEMENT SHALL HAVE EXPANSION JOINTS AT A SPACING OF 90 FEET ON CENTER WITH A JOINT FILLER THICKNESS BASED ON THE THERMAL EXPANSION. ALL EXPANSION JOINTS SHALL BE SEALED WITH AN AASHTO-APPROVED ELASTOMERIC JOINT SEALER. SLABS SEPARATED WITH AN EXPANSION JOINT SHALL BE TIED TOGETHER WITH 1/2" DIAMETER DOWELS THAT ARE 2'-6" LONG AND AT A SPACING OF 18 INCHES. IN ADDITION TO EXPANSION JOINTS, CONTRACTION (CRACK CONTROL) JOINTS SHALL BE CONSTRUCTED AT A SPACING OF APPROXIMATELY 12-15 FEET.
 2. SECTION TO BE VERIFIED BY GEOTECHNICAL INVESTIGATIONS



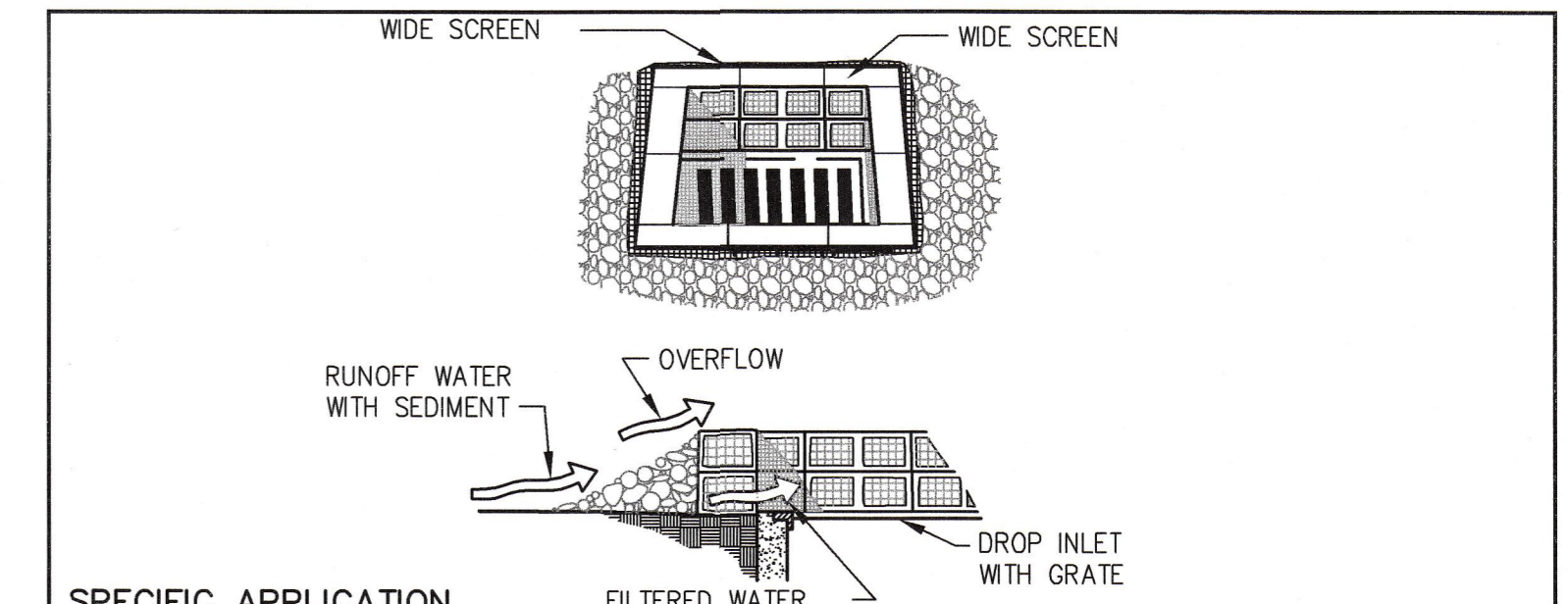
HEAVY DUTY PORTLAND CEMENT CONCRETE SECTION (A/C2)



4" DIA. PRECAST CATCH BASIN (B/C3)



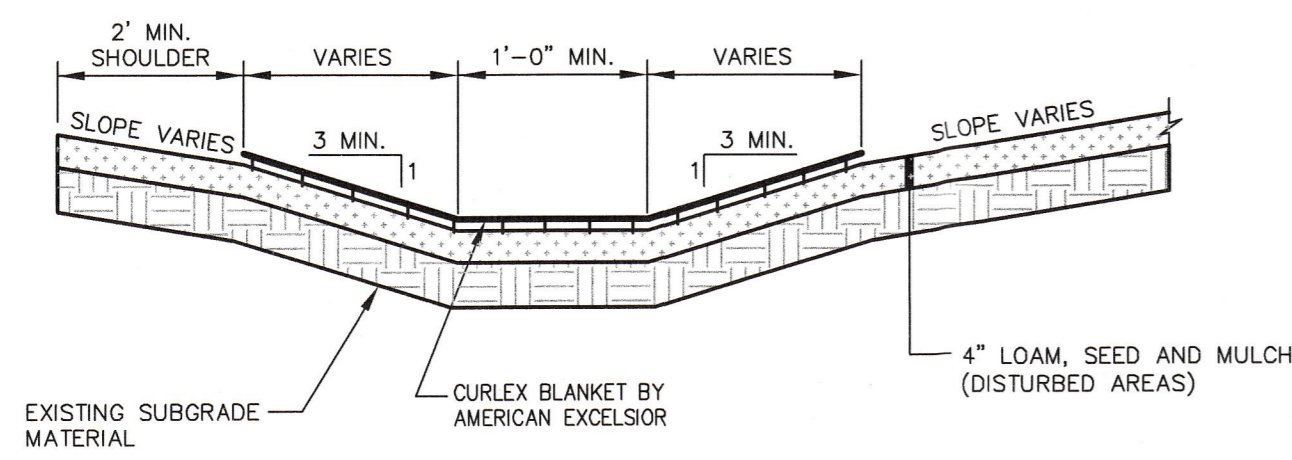
BOLLARD DETAIL (C/C2)



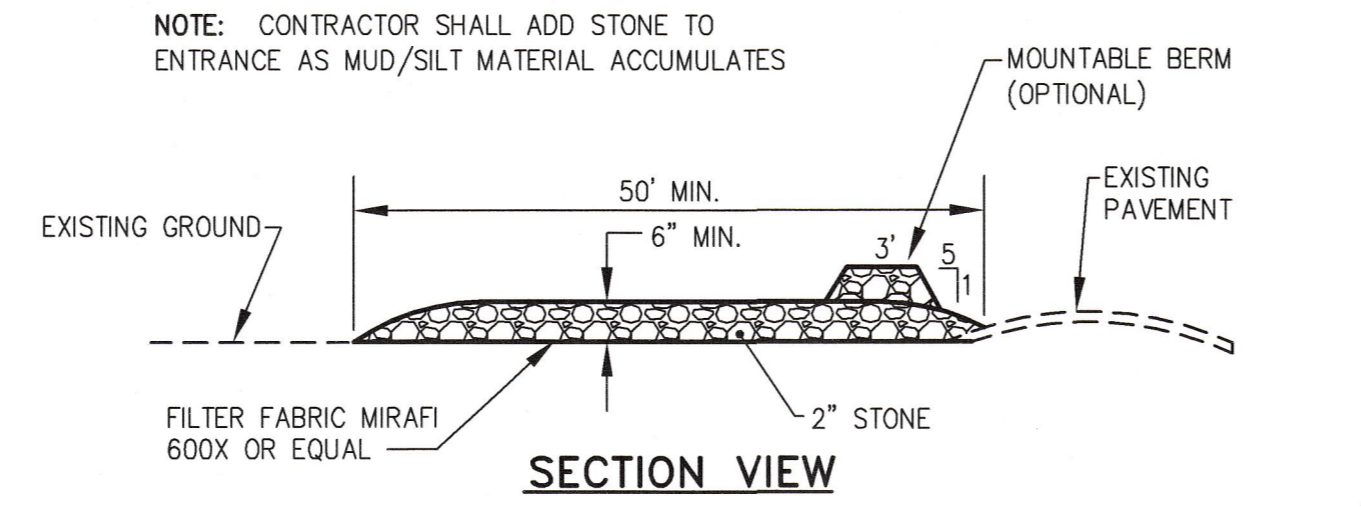
SPECIFIC APPLICATION
 THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

- NOTES:**
1. PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, WITH THE ENDS OF ADJACENT BLOCKS ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF 4", 8" AND 12" WIDE BLOCKS. THE BARRIER OF BLOCKS SHALL BE AT LEAST 12 INCHES HIGH, AND NO GREATER THAN 24" HIGH.
 2. WIRE MESH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE CONCRETE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" OPENINGS SHALL BE USED.
 3. STONE SHALL BE PAILED AGAINST THE WIRE TO THE TOP OF THE BLOCK BARRIER, AS SHOWN IN DETAIL. THE STONE FILTER SHALL BE 3/4" CRUSHED STONE.
 4. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT, SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE BLOCKS, CLEANED AND REPLACED.

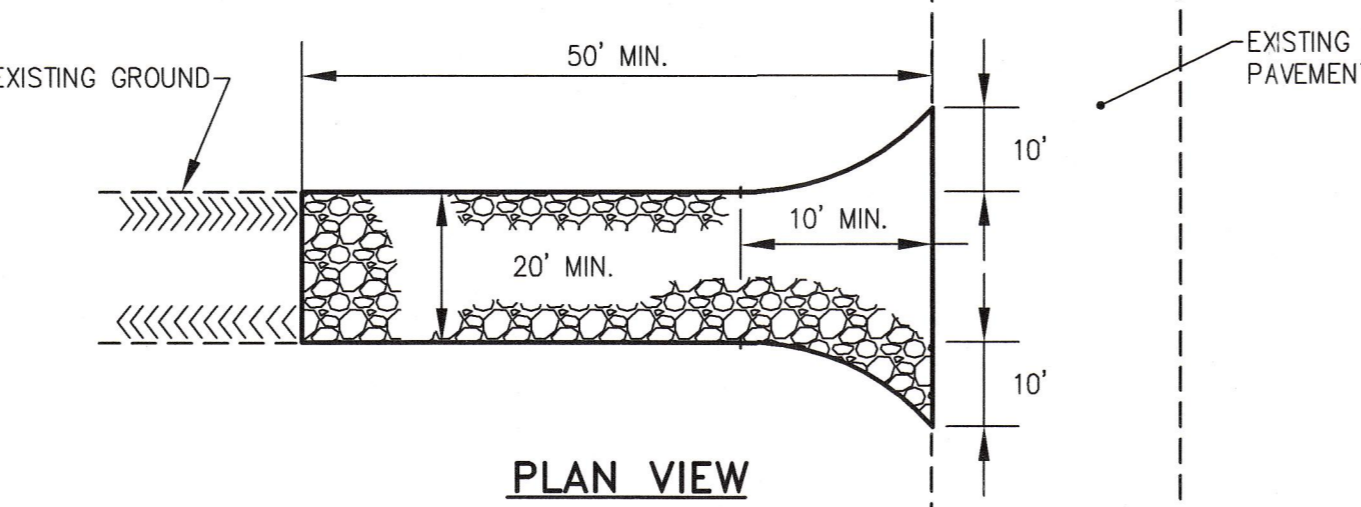
CATCH BASIN INLET BARRIER (D/C3)



VEGETATED DRAINAGE SWALE (E/C3)

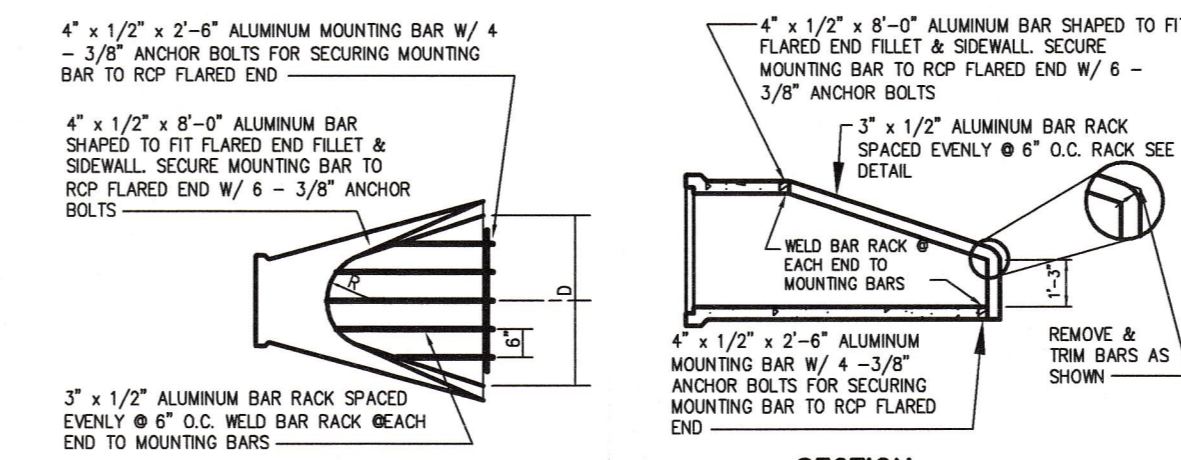


SECTION VIEW



PLAN VIEW

STABILIZED CONSTRUCTION ENTRANCE (F/C3)

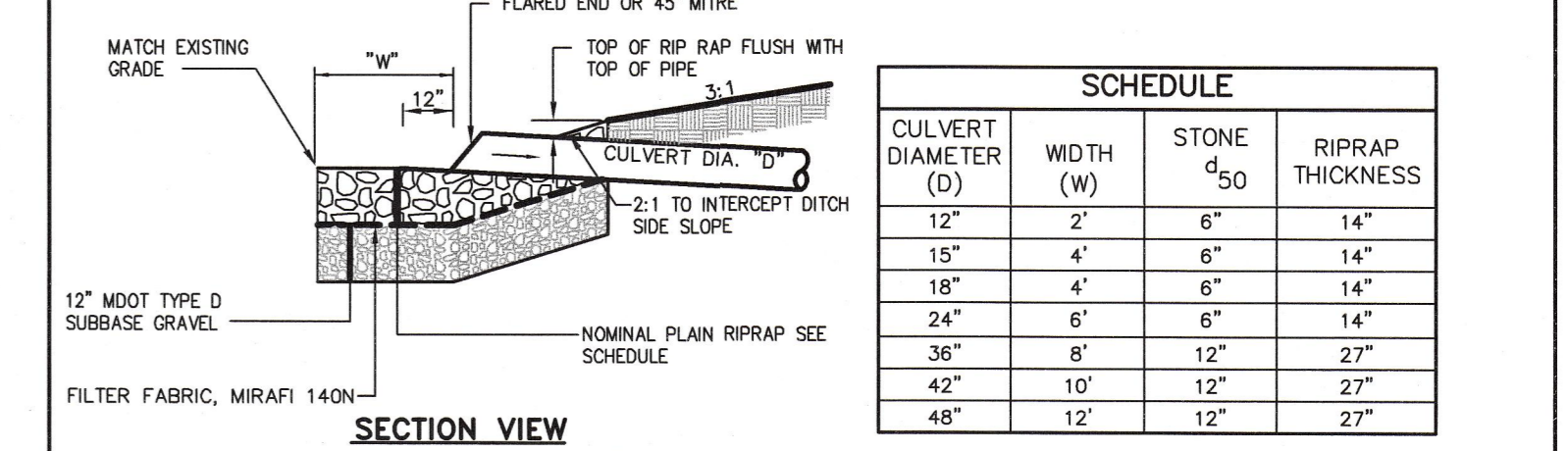


PLAN VIEW - TYP. EACH PIPE

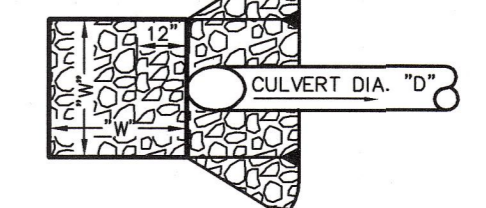
DA	A	B	C	D	E	R
16"	16"	16"	16"	16"	16"	16"
24"	24"	24"	24"	24"	24"	24"
30"	30"	30"	30"	30"	30"	30"
36"	36"	36"	36"	36"	36"	36"
42"	42"	42"	42"	42"	42"	42"
48"	48"	48"	48"	48"	48"	48"
54"	54"	54"	54"	54"	54"	54"
60"	60"	60"	60"	60"	60"	60"

NOTE: JOINTS MAY BE FURNISHED WITH EITHER BELL & SPIGOT OR TONGUE & GROOVE ENDS.
 * USE FIELD MITRE FOR CULVERTS WITH A DIAMETER OF LESS THAN 18"

RCP FLARED END WITH BAR RACK DETAIL (G/C3)



SECTION VIEW



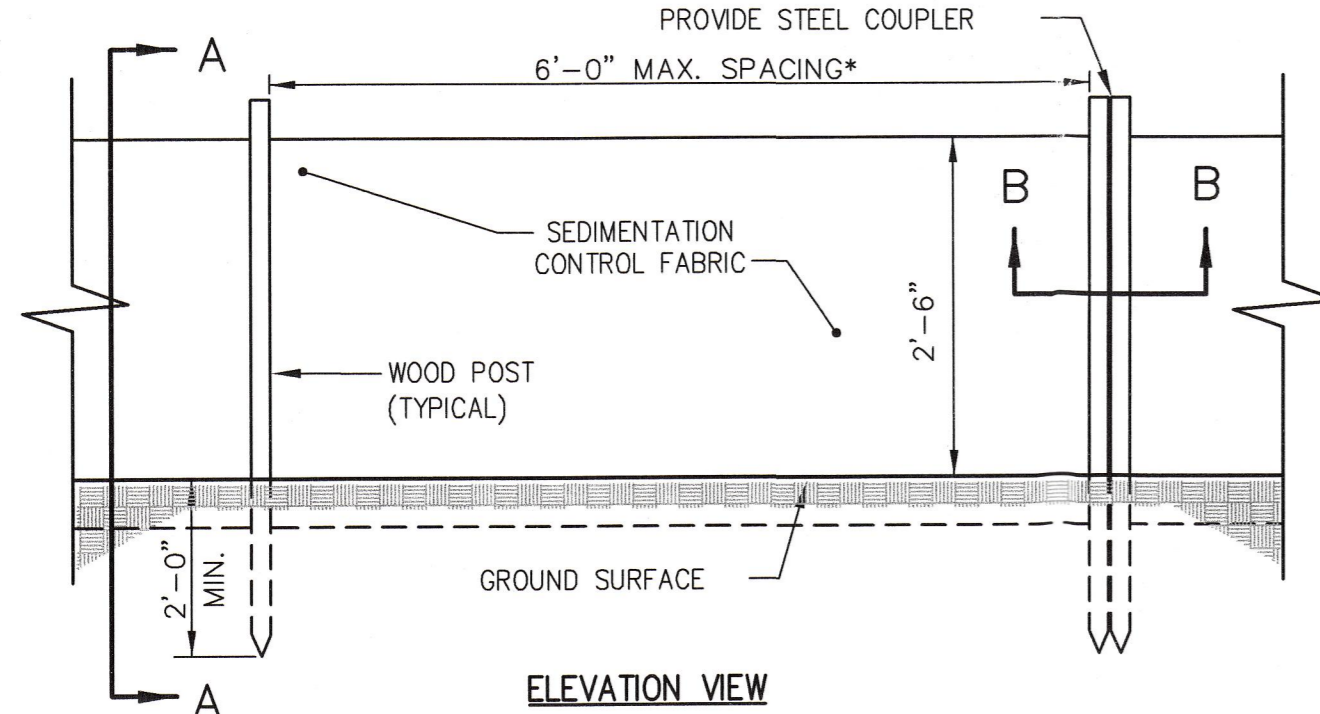
PLAN VIEW

CITY OF PORTLAND
 APPROVED SITE PLAN
 Subject to Dept. Conditions
 Date of Approval: 9-14-04

SCHEDULE			
CULVERT DIAMETER (D)	WIDTH (W)	STONE d ₅₀	RIPRAP THICKNESS
12"	2'	6"	14"
15"	4'	6"	14"
18"	4'	6"	14"
24"	6'	6"	14"
36"	8'	12"	27"
42"	10'	12"	27"
48"	12'	12"	27"

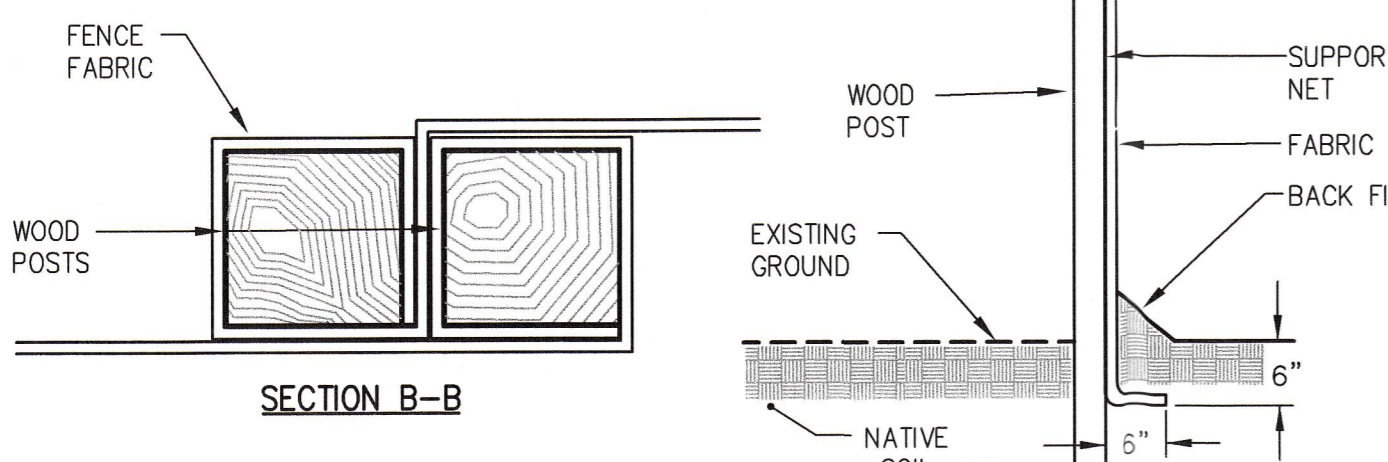
NOTE: RIPRAP GRADATION AND PLACEMENT - THE RIPRAP GRADATION SHALL BE A WELL-GRADED MIX FROM ABOUT 1.5 TIMES THE D SIZE TO ABOUT 25 PERCENT OF THE D SIZE. THE RIPRAP STONES SHALL BE CAREFULLY PLACED WORKING FROM THE TOE OF THE SLOPE UPWARD. THE STONES SHOULD BE LOWERED TO THE SLOPE AND NOT BE ALLOWED TO DROP MORE THAN 12 INCHES ONTO THE GEOTEXTILE. THE FINISHED SURFACE SHALL BE A RELATIVELY SMOOTH UNIFORMLY SLOPED SURFACE.

PIPE / CULVERT INLET APRON (H/C3)

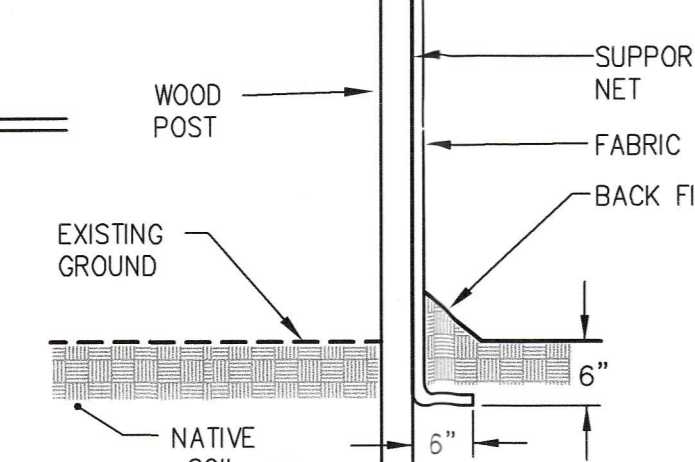


ELEVATION VIEW

*NOTE: THE SILT FENCE SHOULD HAVE A MAXIMUM STAKING DISTANCE OF 6' UNLESS THE FENCE IS SUPPORTED BY WIRE FENCE REINFORCEMENT A MAXIMUM 14 GAUGE AND WITH A MINIMUM MESH SPACING OF 6".



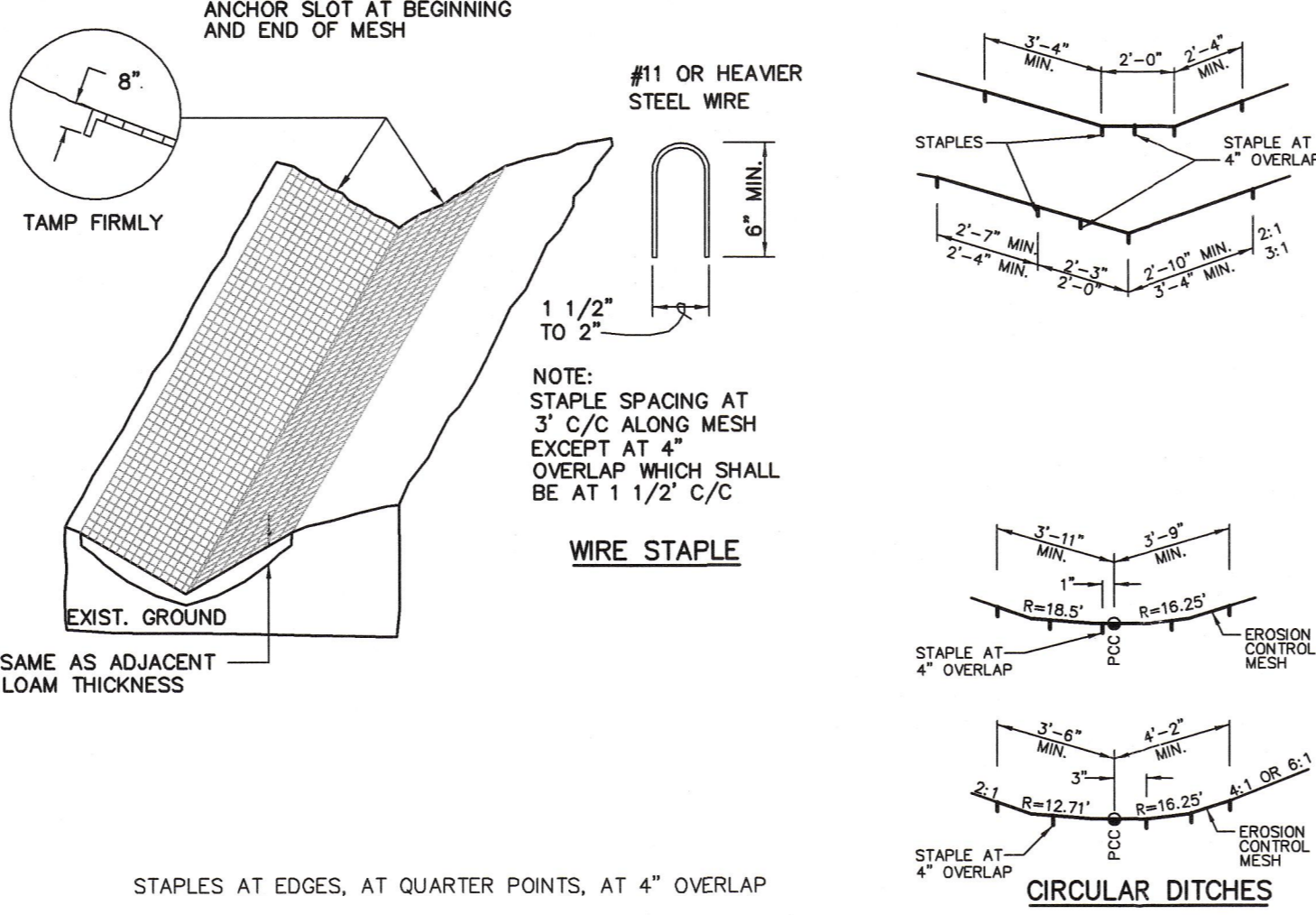
SECTION B-B



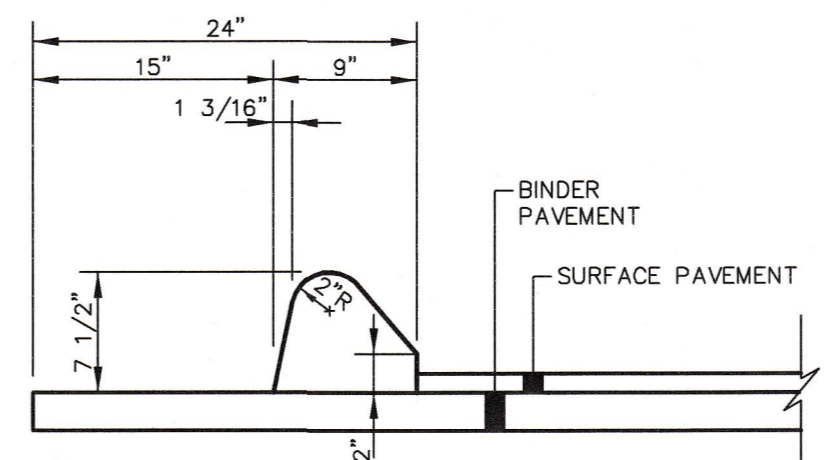
SECTION A-A

NOTE: BOTTOM OF SILT FENCE MUST BE TOED INTO GROUND OR NO PAYMENT SHALL BE MADE. SEE DRAWING C-18 FOR SILT FENCE INSTALLATION SCHEDULE

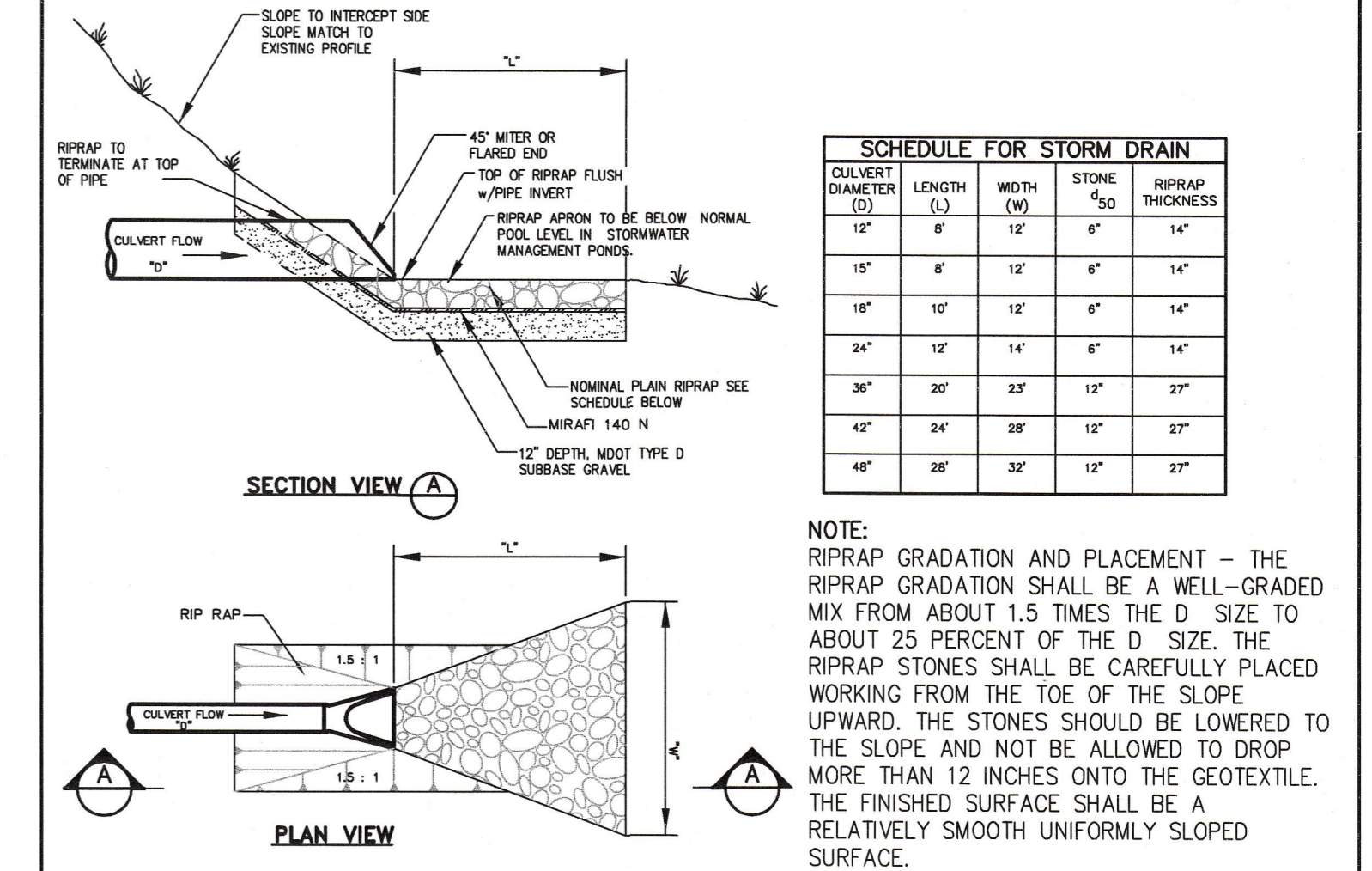
SILTATION FENCE DETAIL (I/C3)



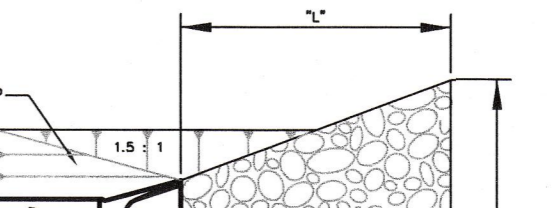
EROSION CONTROL MESH (J/C3)



TYPE 3A BITUMINOUS CURB DETAIL (K/C2)



SECTION VIEW



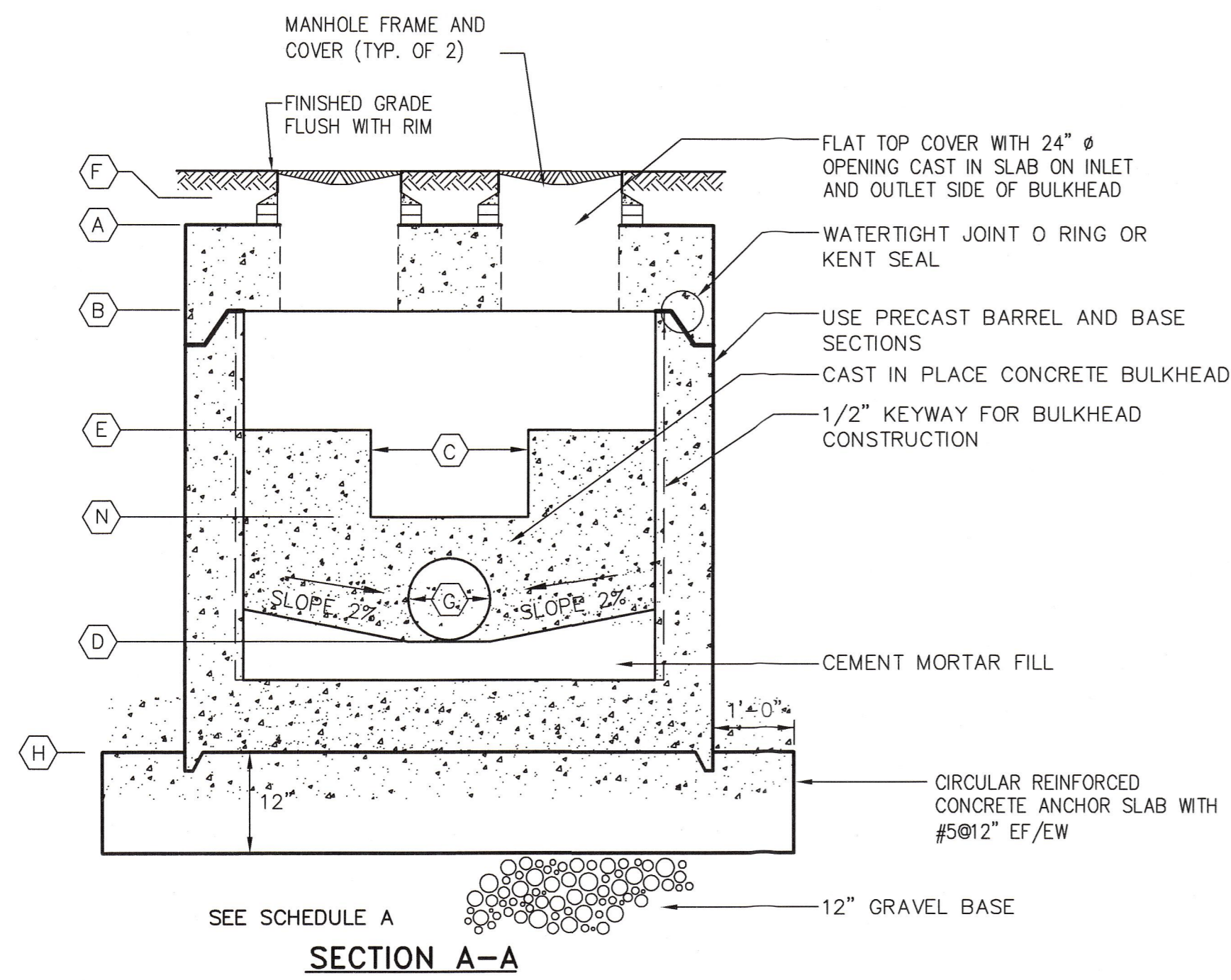
PLAN VIEW

SCHEDULE FOR STORM DRAIN				
CULVERT DIAMETER (D)	LENGTH (L)	WIDTH (W)	STONE d ₅₀	RIPRAP THICKNESS
12"	8'	12'	6"	14"
15"	10'	12'	6"	14"
18"	12'	14'	6"	14"
24"	20'	20'	12"	27"
36"	24'	24'	12"	27"
42"	28'	28'	12"	27"
48"	32'	32'	12"	27"

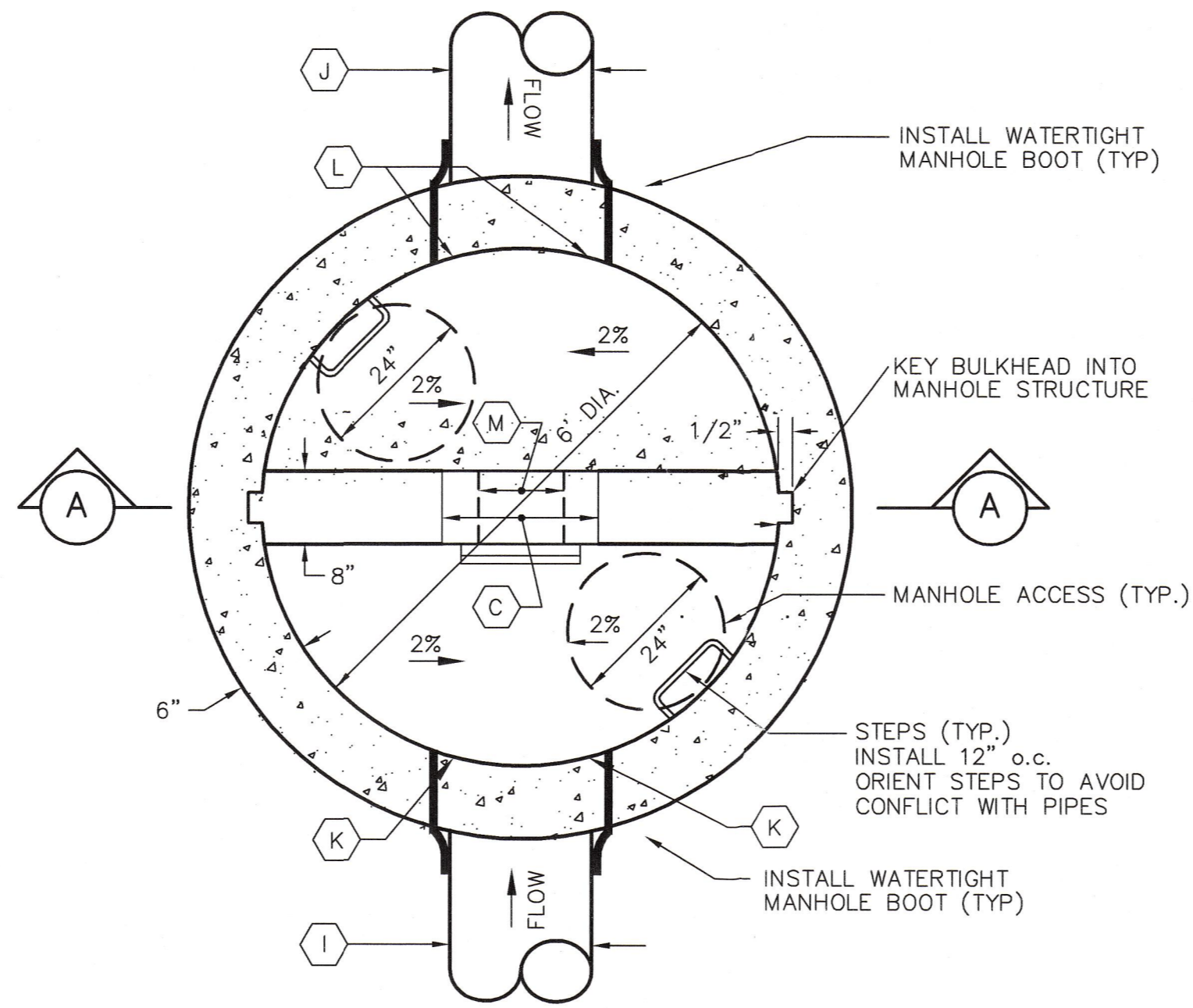
NOTE: RIPRAP GRADATION AND PLACEMENT - THE RIPRAP GRADATION SHALL BE A WELL-GRADED MIX FROM ABOUT 1.5 TIMES THE D SIZE TO ABOUT 25 PERCENT OF THE D SIZE. THE RIPRAP STONES SHALL BE CAREFULLY PLACED WORKING FROM THE TOE OF THE SLOPE UPWARD. THE STONES SHOULD BE LOWERED TO THE SLOPE AND NOT BE ALLOWED TO DROP MORE THAN 12 INCHES ONTO THE GEOTEXTILE. THE FINISHED SURFACE SHALL BE A RELATIVELY SMOOTH UNIFORMLY SLOPED SURFACE.

PIPE / CULVERT OUTLET APRON (L/C3)

			PROJECT EMERGENCY GENERATOR PAD	
SHEET TITLE MISCELLANEOUS SITE DETAILS			CLIENT UNUM LIFE INSURANCE	DRAWN: LA DESIGNED: DDA CHECKED: WGH FILE NAME: 2445-DET SHEET: C5
3 09/20/04 REVISED PER M&DEP COMMENTS 2 09/08/04 ISSUED FOR CONSTRUCTION 1 07/16/04 SUBMITTED TO CITY AND M&DEP FOR APPROVAL	REV DATE DESCRIPTION REVISIONS	P.E. DWIGHT D. ANDERSON LIC. #9275	DATE: FEB 2004 SCALE: AS NOTED JOB NO. 2445	DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 207.775-1121 DHA@DELUCAHOFFMAN.COM



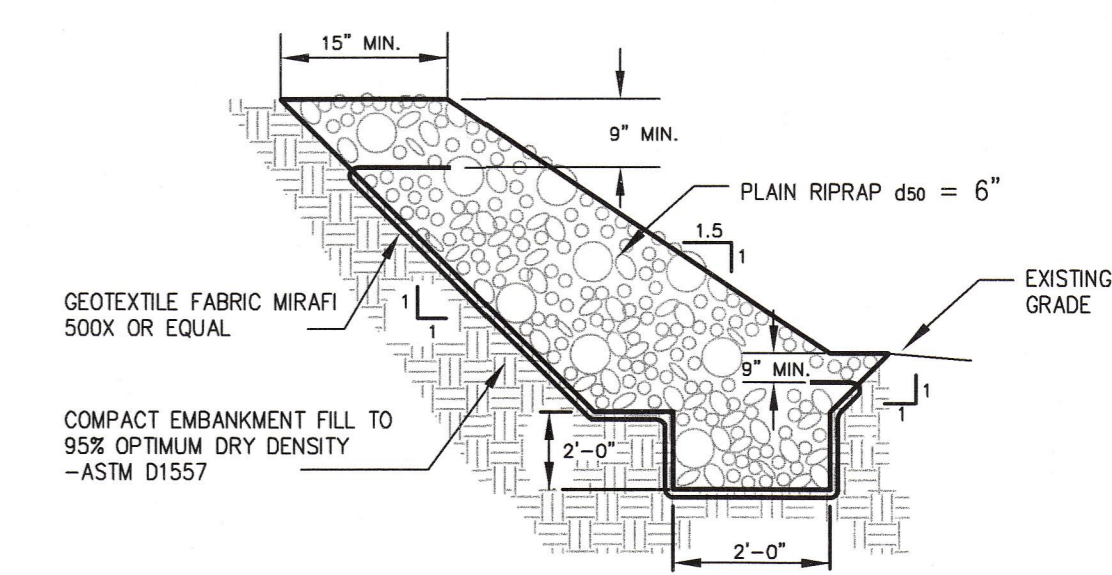
SECTION A-A



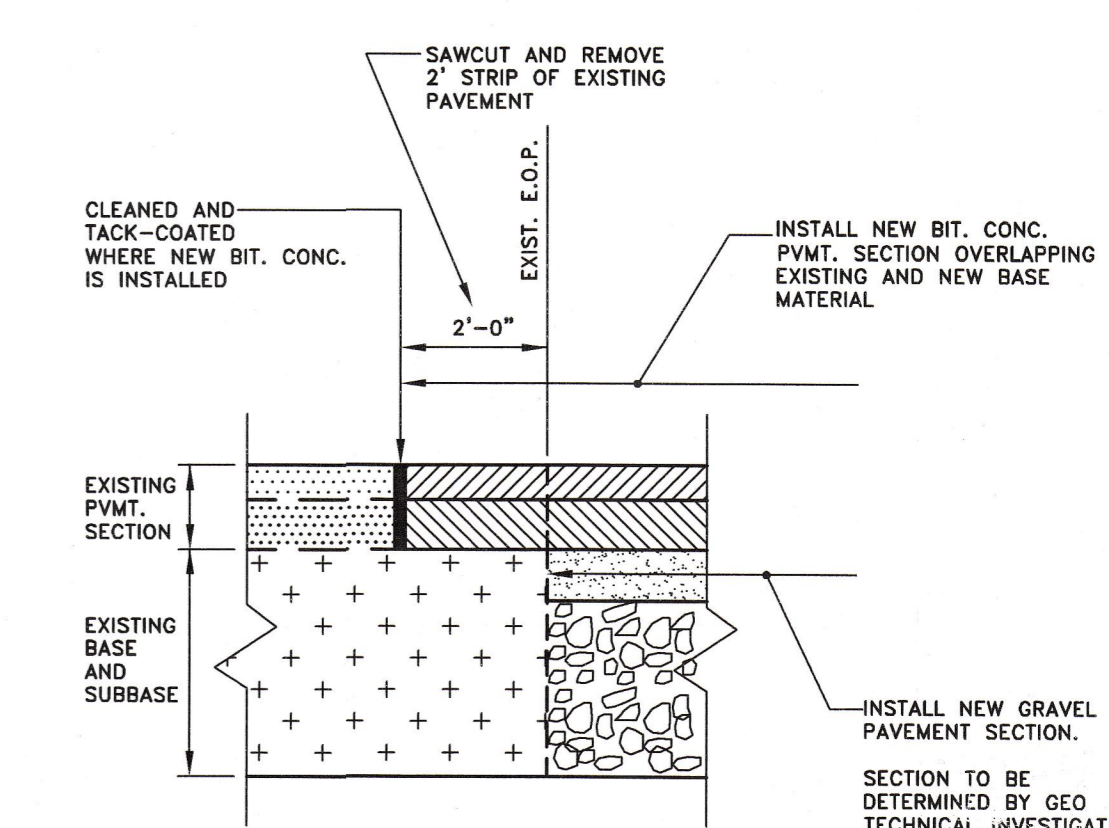
PLAN VIEW
SEE SCHEDULE A

SCHEDULE A OUTLET CONTROL STRUCTURE	
ITEM DESCRIPTION	*
A TOP OF STRUCTURE	82.00
B UNDERSIDE TOP SLAB	81.50
C WEIR WIDTH	0.50
D ORIFICE INVERT	76.70 & 78.42
E TOP OF CONCRETE BULKHEAD	80.00
F FINAL GRADE TO TOP OF STRUCTURE	0.33'
G ORIFICE DIAMETER	1.4" & 4"
H BOTTOM OF STRUCTURE	76.00
I PIPE DIAMETER	12"
J PIPE DIAMETER	12"
K INVERT IN	76.75
L INVERT OUT	75.65
M WALL SLEEVE I.D.	6" x 2 EACH
N WEIR INVERT	79.40

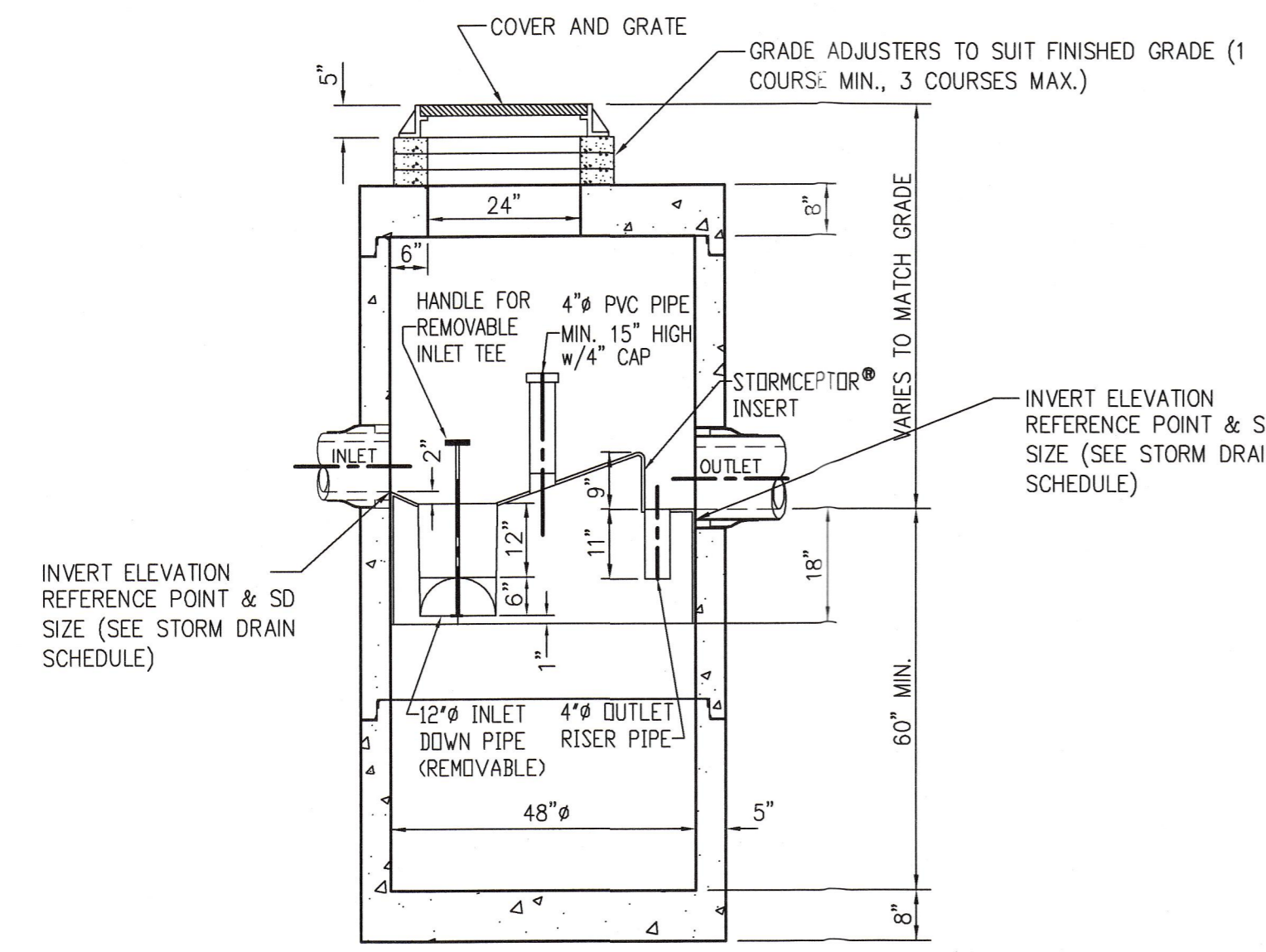
OUTLET CONTROL STRUCTURE DETAILS
N.T.S.



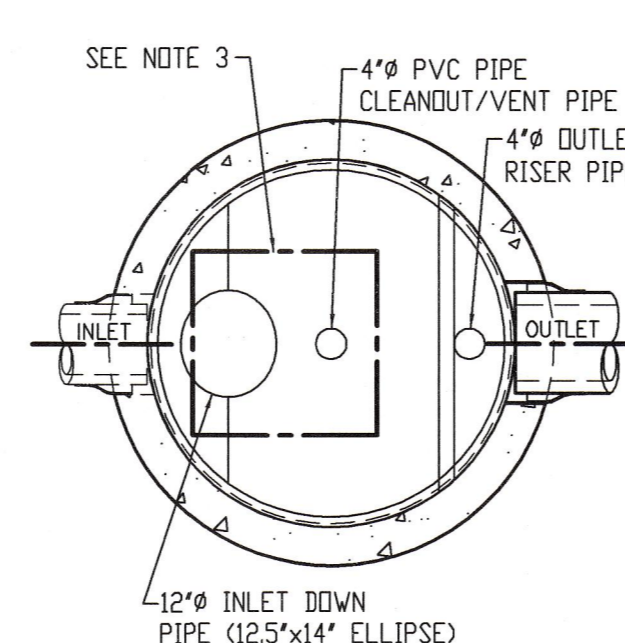
RIPRAP SLOPE PROTECTION DETAIL
N.T.S.



TYPICAL PAVEMENT SECTION -
NEW PVMT. ADJACENT TO EXISTING PVMT.
N.T.S.



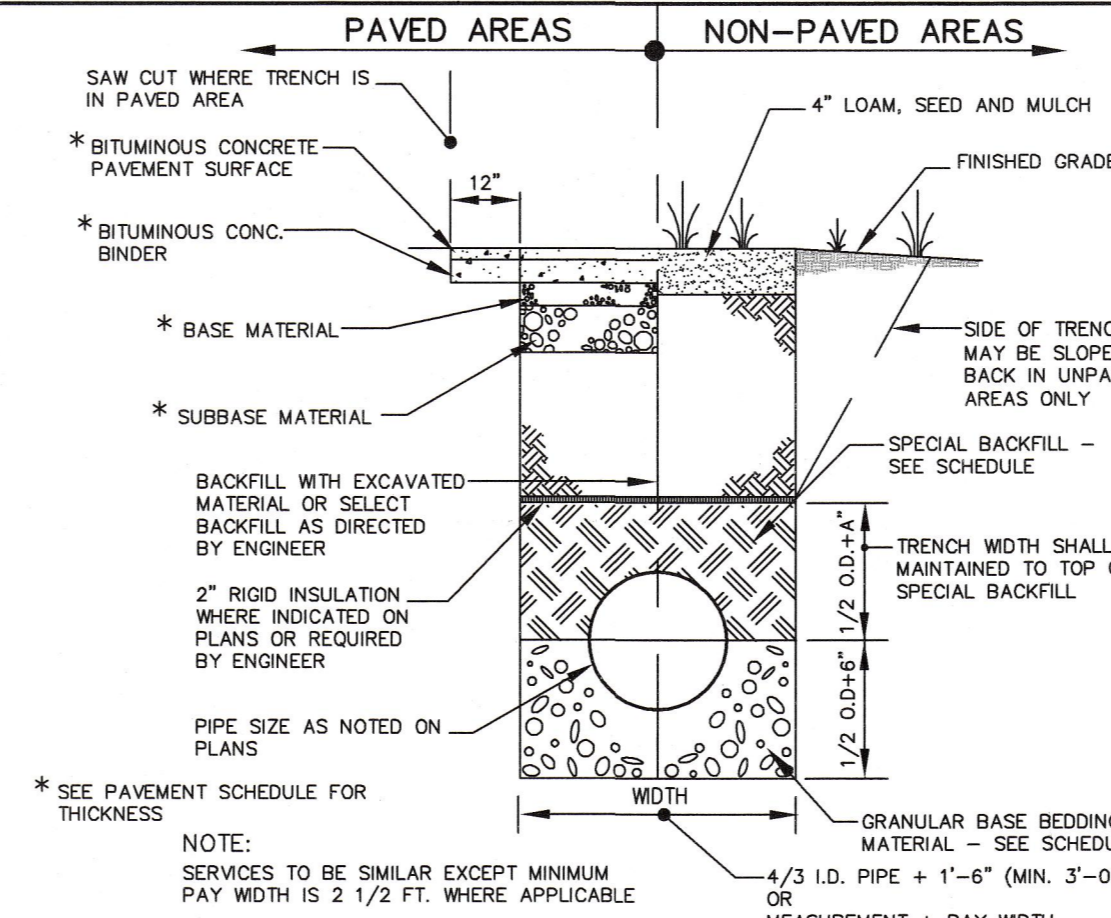
SECTION THRU CHAMBER



SECTION THRU PLAN VIEW

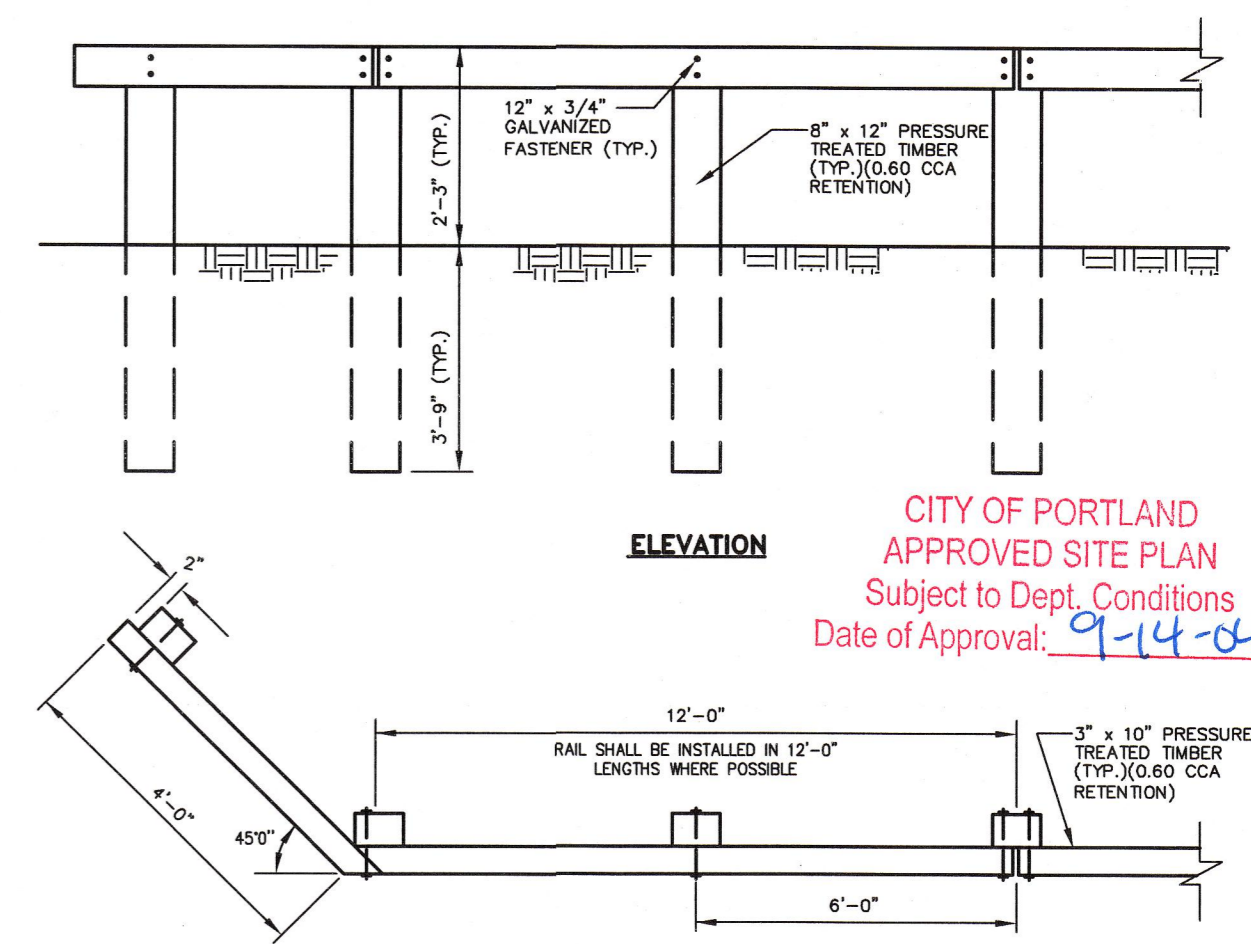
- NOTES:
- THIS DETAIL IS BASED UPON THE DIMENSIONS FOR A STC 450I PRECAST CONCRETE STORMCEPTOR UNIT. OTHER ACCEPTABLE MANUFACTURERS INCLUDE H.I.L. TECHNOLOGIES, DOWNSTREAM DEFENDER AND STORMKING.
 - USE FLEXIBLE BOOT CONNECTIONS AT THE INLET AND OUTLET.
 - THE COVER SHOULD BE POSITIONED OVER THE CLEANOUT/VENT PIPE.

WATER QUALITY UNIT DETAILS
N.T.S.



SCHEDULE OF BASE BACKFILL				
TYPE OF PIPE	BEDDING MATERIAL	SPECIAL BACKFILL	SPECIAL BACKFILL COVER "A" (IN)	SELECT BACKFILL
CONCRETE	3/4" CRUSHED STONE	GRANULAR AASHTO M145-49 A-3 OR BETTER	12	GRANULAR AASHTO M145-49 A-3 OR BETTER
PVC	3/4" CRUSHED STONE	GRANULAR AASHTO M145-49 A-3 OR BETTER	6	GRANULAR AASHTO M145-49 A-3 OR BETTER
CMP	3/4" CRUSHED STONE	GRANULAR AASHTO M145-49 A-3 OR BETTER	6	GRANULAR AASHTO M145-49 A-3 OR BETTER
DUCTILE IRON	GRANULAR AASHTO M145-49 A-3 OR BETTER	GRANULAR AASHTO M145-49 A-3 OR BETTER	6	GRANULAR AASHTO M145-49 A-3 OR BETTER

TYPICAL WATER MAIN & STORM DRAIN TRENCH SECTION
N.T.S.



WOODEN GUARD RAIL DETAIL
N.T.S.

		PROJECT EMERGENCY GENERATOR PAD	DeLUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE 8 SOUTH PORTLAND, ME 04106 (207) 775-1121 DHA@DELUCAHOFFMAN.COM
SHEET TITLE MISCELLANEOUS SITE DETAILS		CLIENT UNUM LIFE INSURANCE	
3 09/20/04 REVISED PER M&DEP COMMENTS 2 09/08/04 ISSUED FOR CONSTRUCTION 1 07/16/04 SUBMITTED TO CITY AND M&DEP FOR APPROVAL	REVISIONS	DRAWN: LA DATE: FEB 2004 DESIGNED: DDA SCALE: AS NOTED CHECKED: WGH JOB NO. 2445 FILE NAME: 2445-DET SHEET: C6	PROJECT EMERGENCY GENERATOR PAD