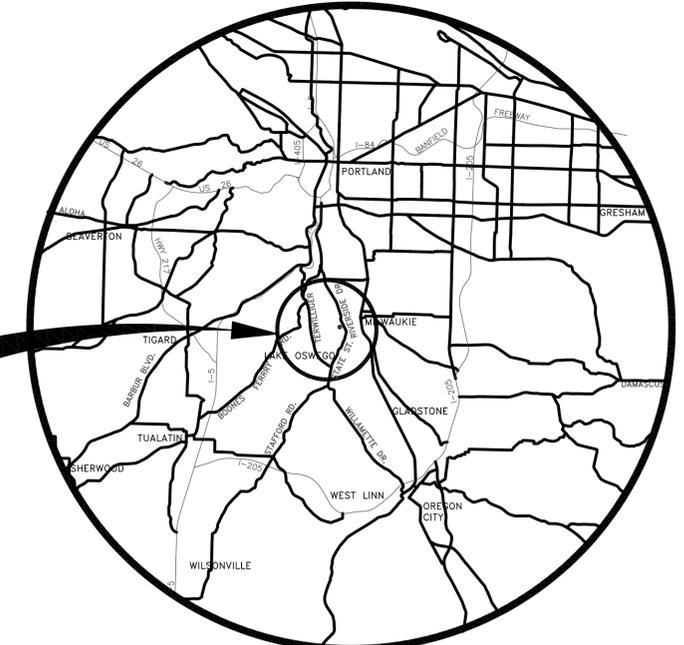
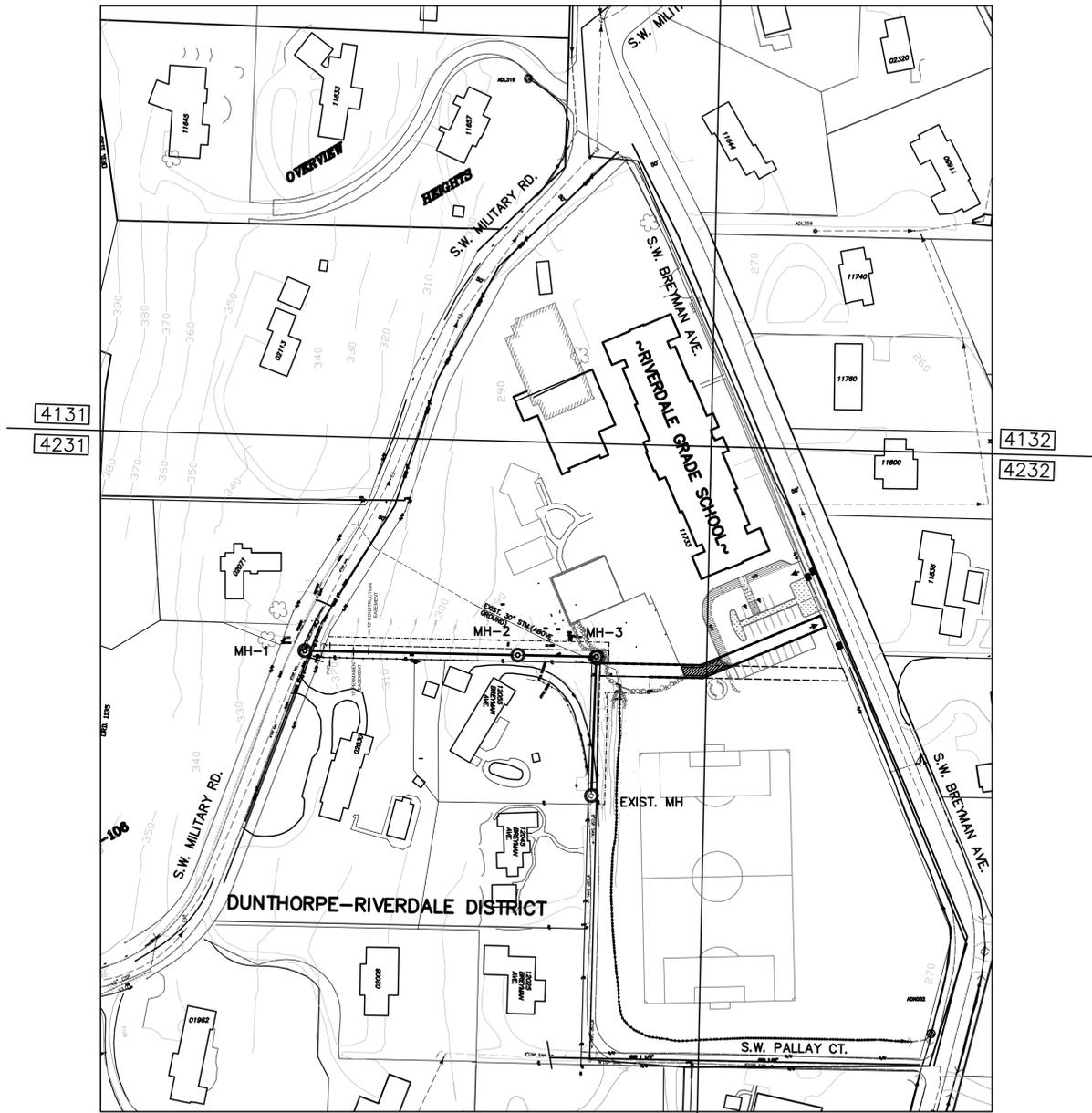


LEGEND

- PROPOSED STORM SEWER/MH
- PROPOSED SANITARY SEWER/MH
- PROPOSED INLET
- EXISTING STORM SEWER/MH
- EXISTING SANITARY SEWER/MH
- EXISTING INLET
- EXISTING HOUSE
- FIRE HYDRANT
- WATER
- WATER VALVE
- GAS 2"
- GAS VALVE
- ELECTRIC
- TELEPHONE
- WATER METER
- POWER POLE
- LIGHT
- CURB
- EDGE OF PAVEMENT
- EDGE OF DRIVEWAY
- TREE WITH DIAMETER IN INCHES
- DITCH OR STREAM
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE RIGHT-OF-WAY
- EDGE OF GRAVEL
- CULVERT
- WIRE FENCE



PROJECT AREA

VICINITY MAP
SCALE: NONE

ELK ROCK BYPASS PROJECT BES PROJECT #8378

NOTICE TO EXCAVATORS:
ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.
(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987).

POTENTIAL UNDERGROUND FACILITY OWNERS



Call the Oregon One-Call Center
DIAL 811 or 1-800-332-2344

EMERGENCY TELEPHONE NUMBERS

- NW NATURAL GAS
- M-F 7am-6pm 503-226-4211 Ext.4313
- AFTER HOURS 503-226-4211
- PGE 503-464-7777
- QWEST 1-800-573-1311
- CITY BUREAU OF MAINTENANCE 503-823-1700
- CITY WATER 503-823-4874
- VERIZON 1-800-483-1000

SHEET INDEX

NO.	NAME	DESCRIPTION
1	G01	COVER SHEET
2	C01	PLAN AND PROFILE
3	C02	PLAN AND PROFILE
4	D01	DETAILS
5	CE01	EROSION CONTROL PLAN
6	CE02	EROSION CONTROL DETAILS
7	CE03	CONSTRUCTION MANAGEMENT PLAN

GENERAL NOTES:

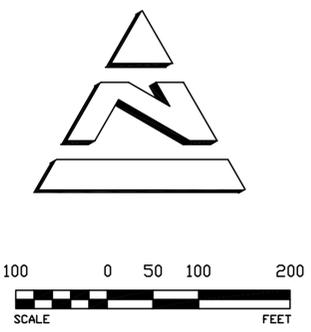
- ALL CONSTRUCTION SHALL CONFORM TO CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS, AS REVISED IN 2007.
- SITE EROSION CONTROL MUST COMPLY WITH BES "EROSION CONTROL MANUAL", MARCH 1,2008. EROSION CONTROL MUST BE IN PLACE PRIOR TO CONSTRUCTION.

DESIGN NOTES:

- THIS SANITARY SEWER BY-PASS IS BUILT TO DIVERT FLOWS FROM ELK ROCK PUMP STATION TO TRYON PUMP STATION.

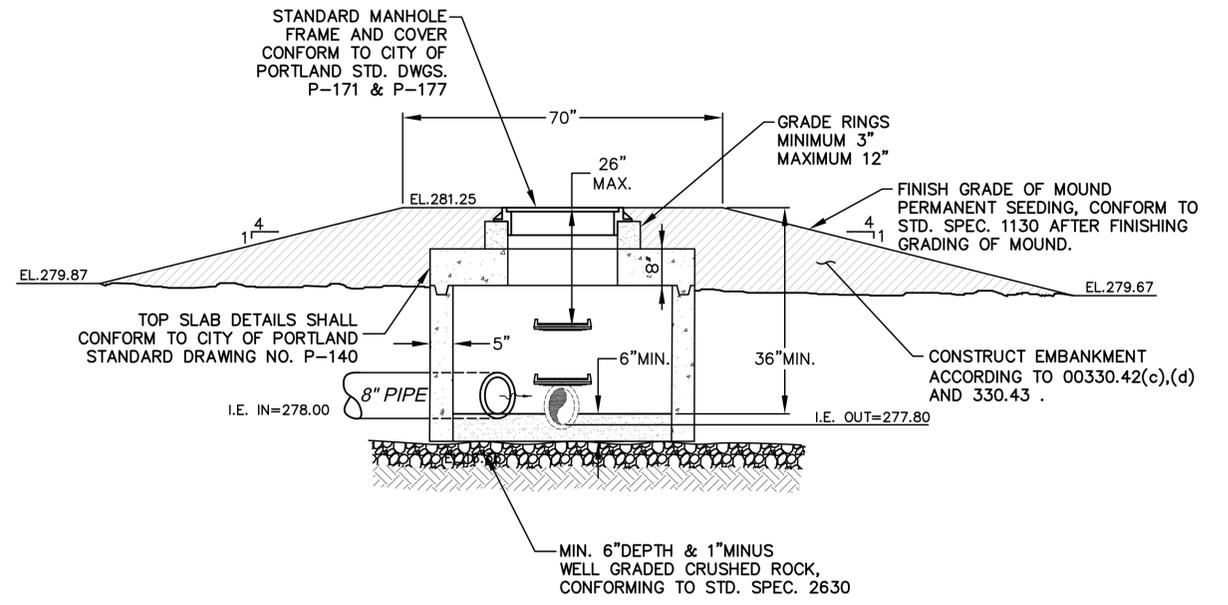
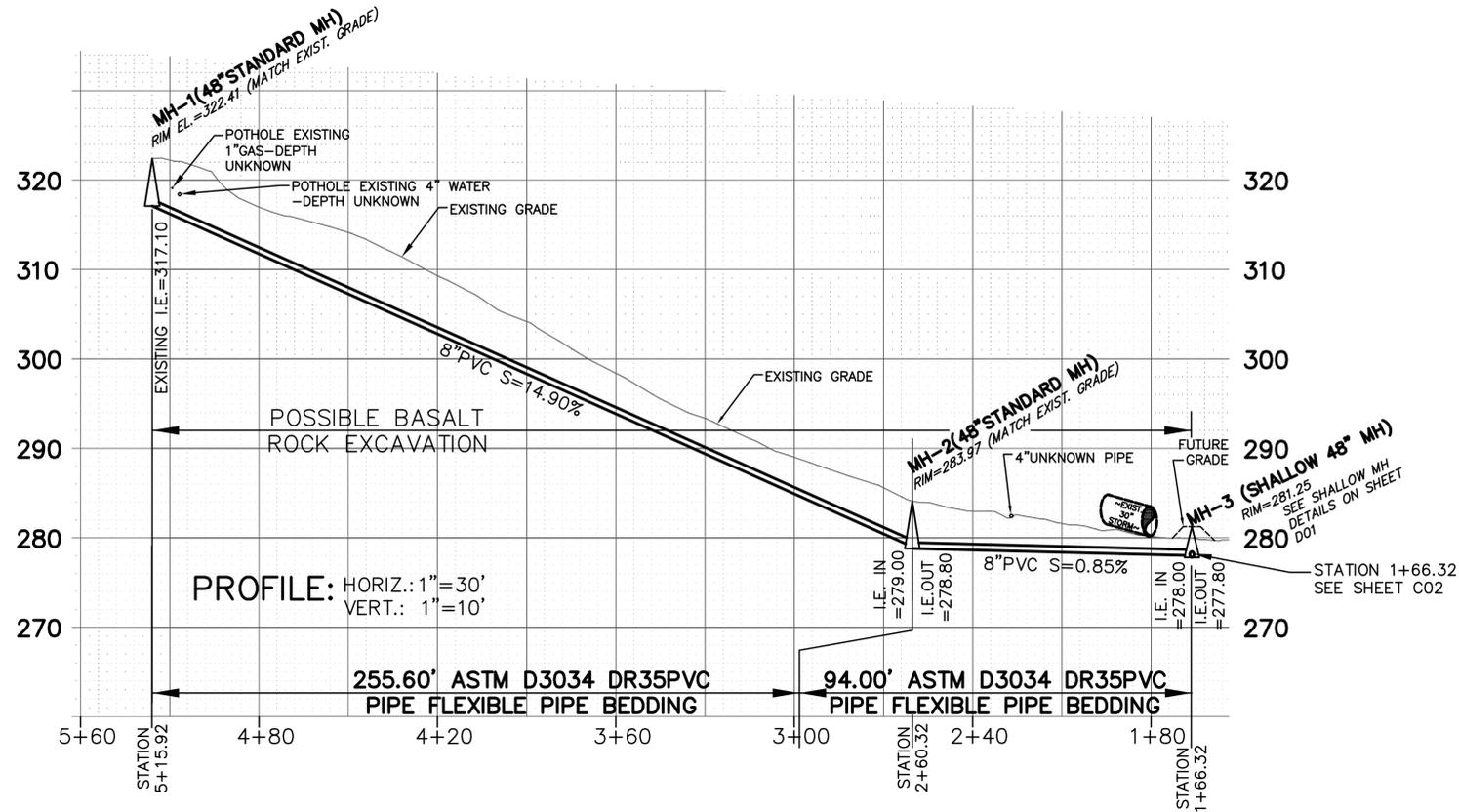
GENERAL INSTRUCTION DURING CONSTRUCTION:

- THE CONSTRUCTION SITE IS A DENSELY WOODED AREA. CONSTRUCTION MANAGEMENT PLAN (CE03) SHOWS ALL TREES TO BE CUT.
- INSTALL MARKER BALL PER STANDARD SPEC. 0446.41 FOR ALL PIPES.
- COORDINATE WITH RIVERDALE GRADE SCHOOL CONTRACTORS.



C.O.P. DATUM & NAD 83-91

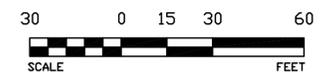
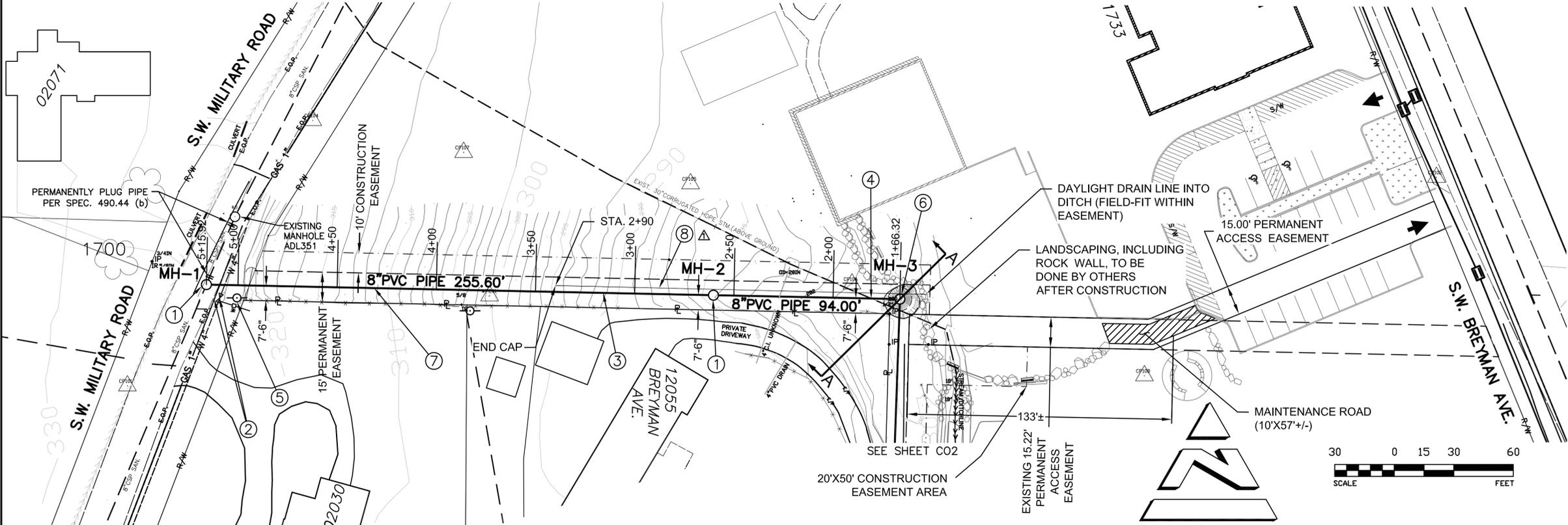
	XREF(S) USED: X8378	DESIGNED BY: SMS	DATE APPD.	CITY OF PORTLAND ENVIRONMENTAL SERVICES DAN SALTZMAN COMMISSIONER PUBLIC AFFAIRS APPROVAL			ELK ROCK BYPASS COVER SHEET	1/4 SECTION
	ROTATION ANGLE: 0°00'00"	DRAWN BY: JLD	PROGRAM MGR:					4231
	CONSTRUCTED BY:	CHECKED BY: LCS	CONST. MGR.:					E08378
	PROJECT COMPLETED:	MAP CORRECTED BY:	CHECKED BY:					SHEET NO.
	FINAL MAP DATA	DESIGN MGR.:		G01				
NO.	DATE	DESCRIPTION	APPD.	WILLIAM F. RYAN, P.E. CHIEF ENGINEER		ENVIRONMENTAL SERVICES CHIEF ENGINEER REG. PROF. ENGR. NO. 16,301		1 OF 7
REVISION				8378G01.DWG 12/24/09				



**SECTION A-A
FILL DETAIL**

CONSTRUCTION NOTES

- ① CONSTRUCT STANDARD 48" MANHOLE PER STANDARD DRAWING P-150.
- ② POTHOLE PRIOR TO CONSTRUCTION TO LOCATE THE EXISTING WATER LINE AND GAS LINE.
- ③ INSTALL METAL SLOPE ANCHORS PER STANDARD DETAIL P-104 @ FOLLOWING STATIONS OR AS DIRECTED BY ENGINEER:
STATION 4+65
STATION 4+15
STATION 3+65
STATION 3+15
- ④ 30" CORRUGATED HDPE STORM PIPE (WILL BE REMOVED BY OTHERS PRIOR TO CONSTRUCTION.)
- ⑤ UNDERGROUND POWER - CONTACT PP&L PRIOR TO CONSTRUCTION.
- ⑥ CONSTRUCT SHALLOW 48" MANHOLE PER STANDARD DETAILS ON SHEET D01.
- ⑦ INSTALL 6" OF SELECTED TOPSOIL (SPEC. 1040.14(a)) OVER BACKFILL AREAS TO FINISHED GRADE.
- ⑧ INSTALL 3" PERFORATED DRAIN LINE PARALLEL TO 8" SEWER. MATCH SPRINGLINES.



NO.	DATE	DESCRIPTION	APPD.

DESIGNED BY	DATE APPD.
DRAWN BY	PROGRAM MGR.
CHECKED BY	CONST. MGR.
DESIGN MGR.	

XREF(S) USED:	X8378
ROTATION ANGLE:	0°00'00"
CONSTRUCTED BY	
PROJECT COMPLETED	
MAP CORRECTED BY	CHECKED BY

CITY OF PORTLAND
ENVIRONMENTAL SERVICES

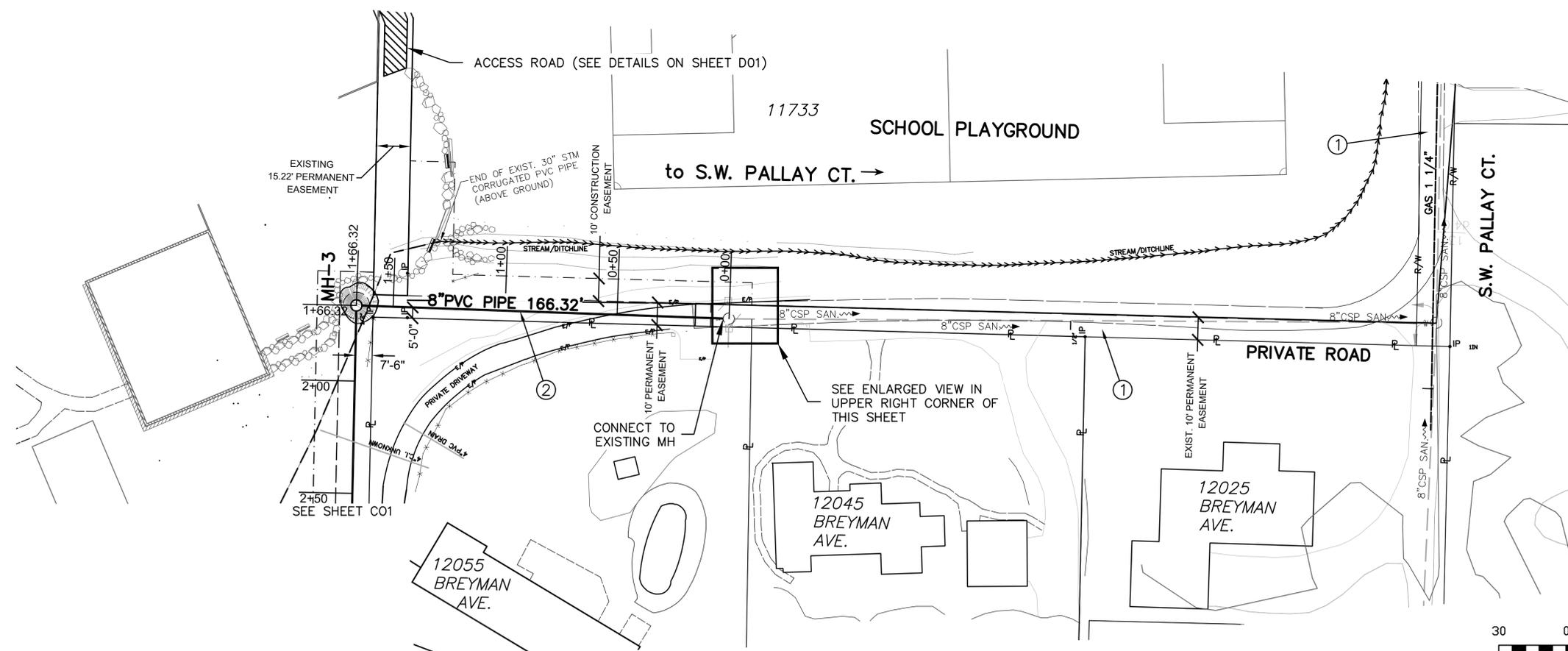
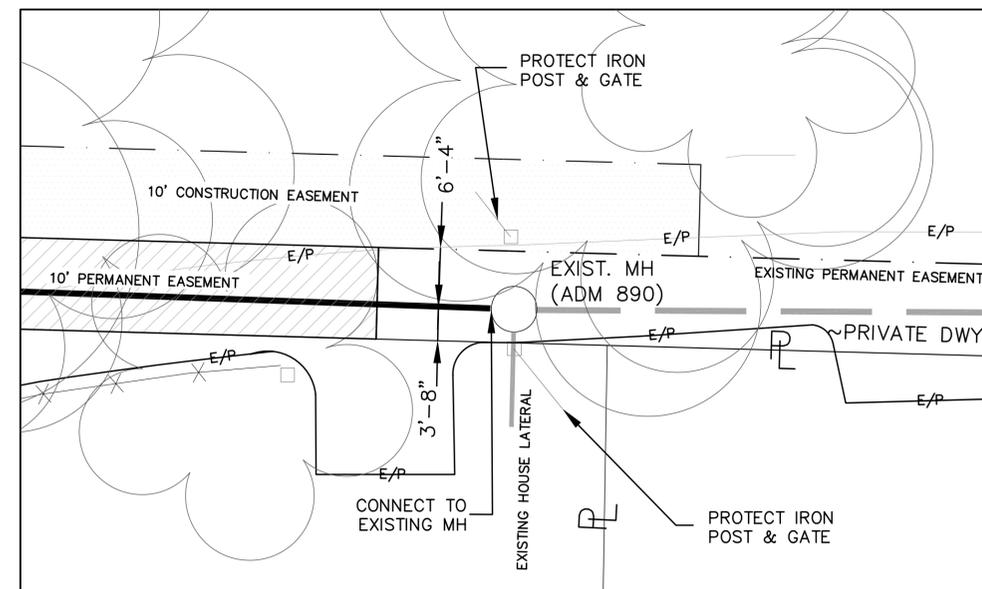
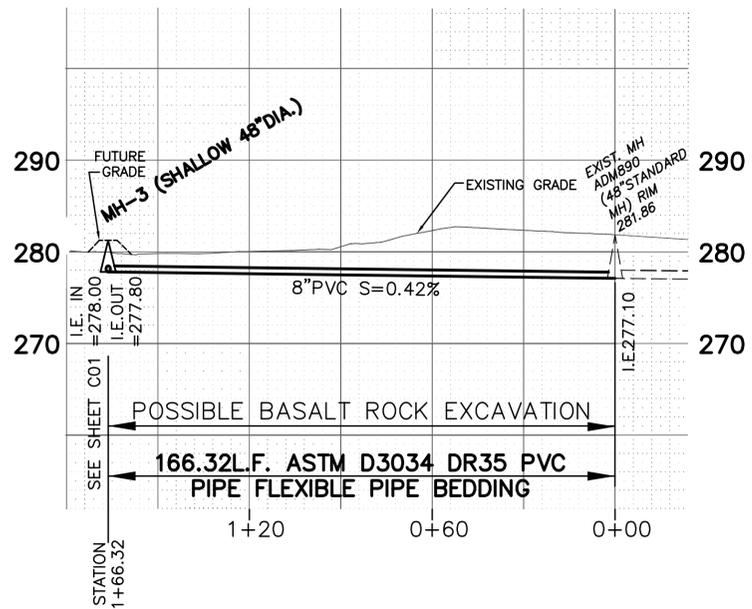
REGISTERED PROFESSIONAL
ENGINEER
13,719

OREGON
JULY 16, 1987
LLOYD C. STANNING

Expires: 6/30/2010

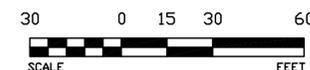
**ELK ROCK BYPASS
PLAN AND PROFILE**

1/4 SECTION
4231
JOB NO.
E08378
SHEET NO.
C01
2 of 7



CONSTRUCTION NOTE

- ① NO CONSTRUCTION ACCESS ALLOWED ON PRIVATE DRIVEWAY & S.W. PALLAY CT FROM BREYMAN AVE.
- ② INSTALL 6" OF SELECTED TOPSOIL (SPEC. 1040.14(A)) OVER BACKFILL AREAS TO FINISHED GRADE.



NO.	DATE	DESCRIPTION	APPD.

XREF(S) USED: X8378
ROTATION ANGLE: TWIST=90°00'00"
CONSTRUCTED BY: _____
PROJECT COMPLETED: _____
MAP CORRECTED BY: _____ CHECKED BY: _____
FINAL MAP DATA
8378C02.DWG 12/24/09

DESIGNED BY: _____ DATE APPD. _____
DRAWN BY: _____ PROGRAM MGR _____
CHECKED BY: _____ CONST. MGR _____
DESIGN MGR: _____

CITY OF PORTLAND
ENVIRONMENTAL SERVICES

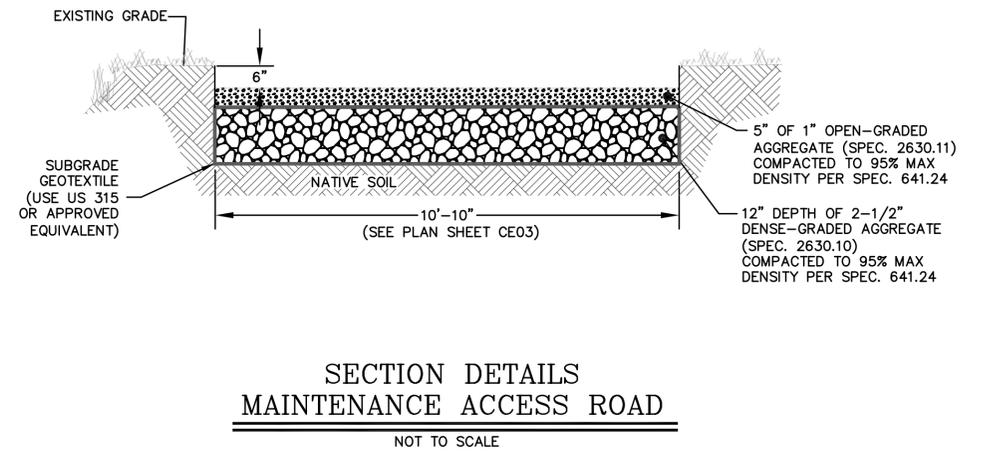
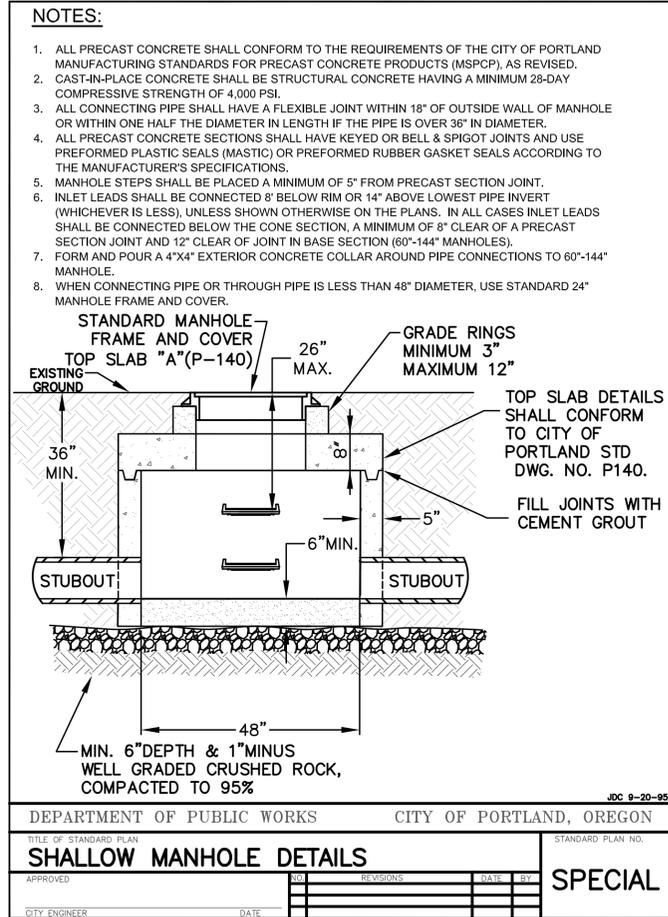
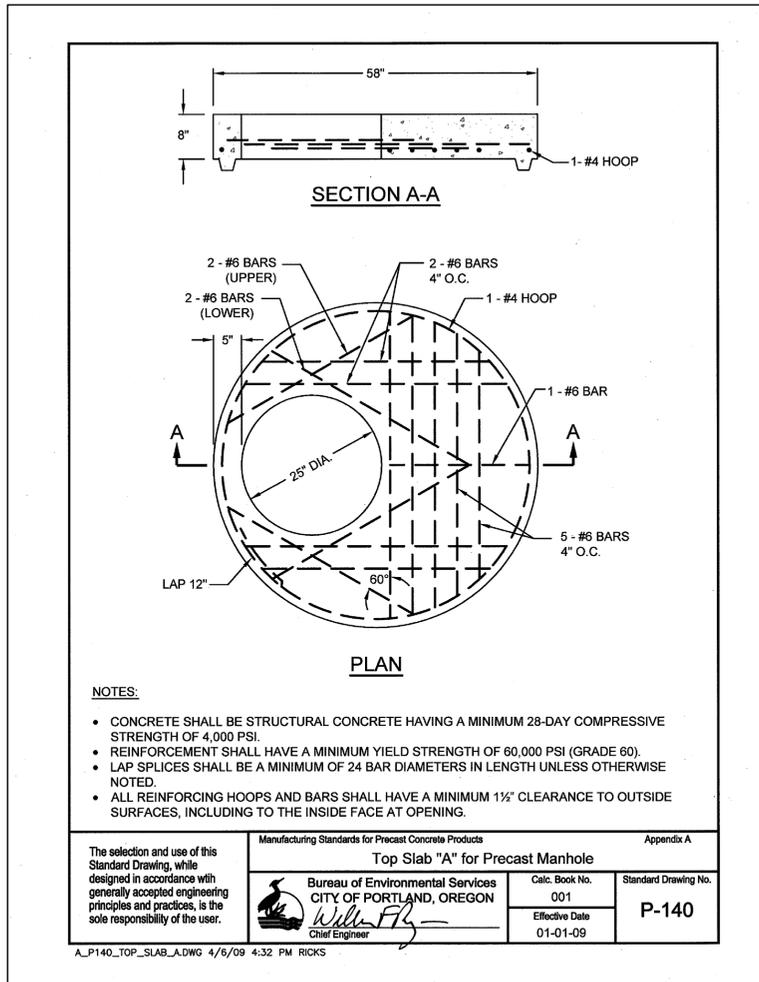
REGISTERED PROFESSIONAL
ENGINEER
13,719

OREGON
JULY 16, 1967
LLOYD C. STAUNING

Expires: 8/30/2010

**ELK ROCK BYPASS
PLAN AND PROFILE**

1/4 SECT
423
JOB NO.
E083
SHEET NO
C0:
3 OF



NO.	DATE	DESCRIPTION	APPD.
		REVISION	

DESIGNED BY	DATE APPD.
DRAWN BY	PROGRAM MGR.
CHECKED BY	CONST. MGR.
DESIGN MGR.	

XREF(S) USED:	8378
ROTATION ANGLE:	0°00'00"
CONSTRUCTED BY	
PROJECT COMPLETED	
MAP CORRECTED BY	CHECKED BY
FINAL MAP DATA	
	8378D01.DWG 12/24/09

CITY OF PORTLAND
ENVIRONMENTAL SERVICES



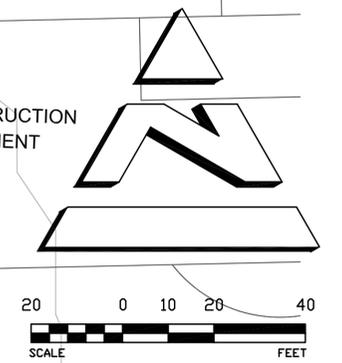
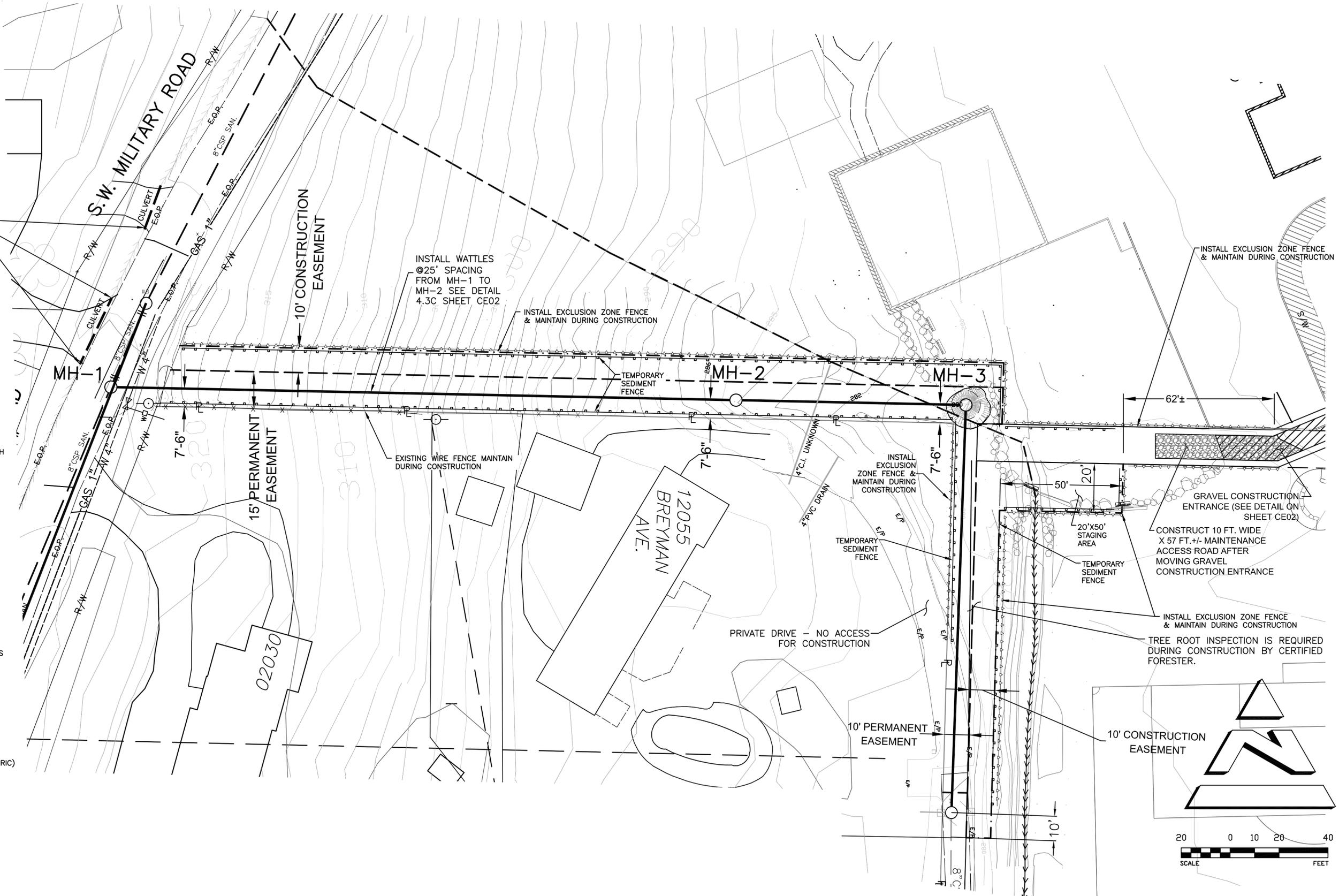
**ELK ROCK BYPASS
 DETAILS**

1/4 SECTION
 4231
 JOB NO.
 E08378
 SHEET NO.
D01
 4 OF 7

SEE STORMWATER BARRIERS
#2 DETAIL ON SHEET
CE02 DRAWING 4.4-E

LEGEND

- PROPOSED STORM SEWER/MH
- PROPOSED SANITARY SEWER/MH
- PROPOSED INLET
- EXISTING STORM SEWER/MH
- EXISTING SANITARY SEWER/MH
- EXISTING INLET
- EXISTING HOUSE
- FIRE HYDRANT
- WATER
- WATER VALVE
- GAS 2"
- GAS VALVE
- ELECTRIC
- TELEPHONE
- WATER METER
- POWER POLE
- LIGHT
- CURB
- EDGE OF PAVEMENT
- EDGE OF DRIVEWAY
- TREE WITH DIAMETER IN INCHES
- DITCH OR STREAM
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE RIGHT-OF-WAY
- EDGE OF GRAVEL
- CULVERT
- WIRE FENCE
- BIOFILTER BAG
- INLET PROTECTION (FILTER FABRIC)
- SEDIMENT FENCE
- TREE TO BE REMOVED
- TREE TO BE SAVED
- DITCH
- EXCLUSION ZONE FENCE



XREF(S) USED: X8378	DESIGNED BY: []	DATE APPD.:
ROTATION ANGLE: 0°00'00"	DRAWN BY: []	PROGRAM MGR:
CONSTRUCTED BY:	CHECKED BY: []	CONST. MGR.:
PROJECT COMPLETED:	MAP CORRECTED BY:	CHECKED BY:
FINAL MAP DATA	DESIGN MGR.:	
8378CE01.DWG 12/24/09		

CITY OF PORTLAND
ENVIRONMENTAL SERVICES

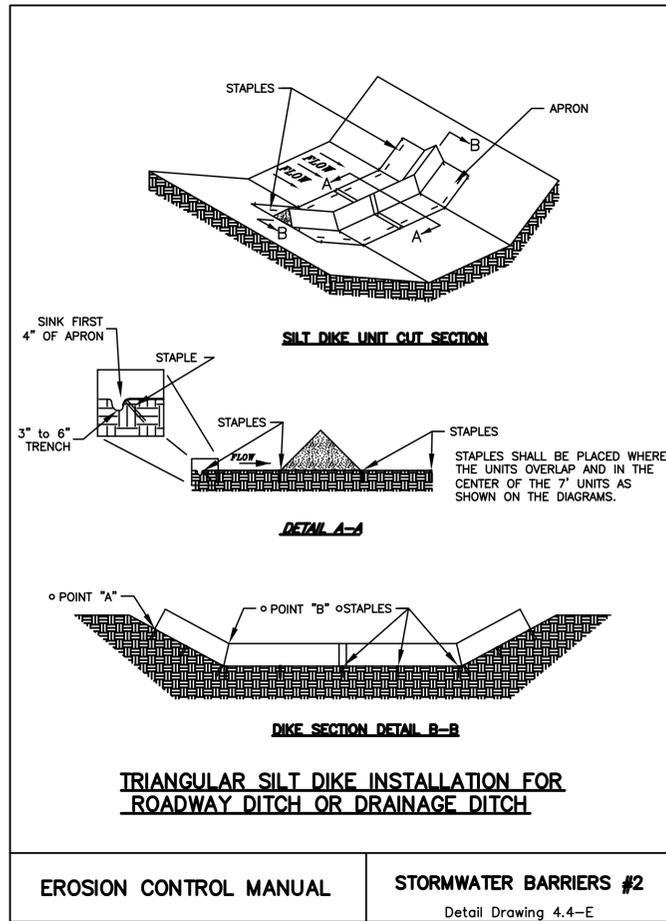
REGISTERED PROFESSIONAL
ENGINEER
13,719

OREGON
JULY 16, 1987
LLOYD C. STAUNING

Expires: 6/30/2010

**ELK ROCK BYPASS
EROSION CONTROL PLAN**

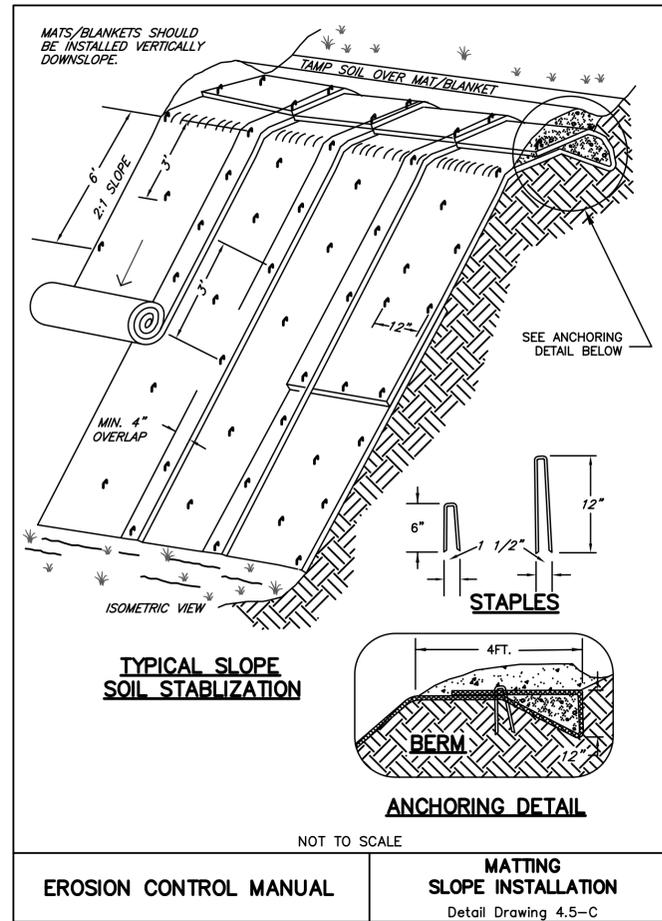
1/4 SECTION 4231
JOB NO. E08378
SHEET NO. CE01
5 OF 7



EROSION CONTROL MANUAL

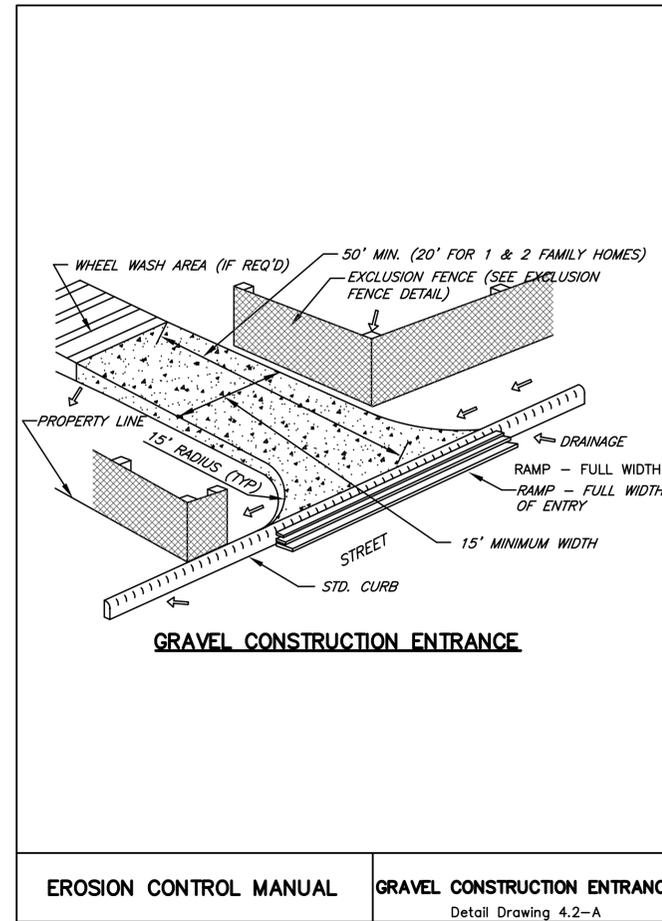
STORMWATER BARRIERS #2

Detail Drawing 4.4-E



EROSION CONTROL MANUAL

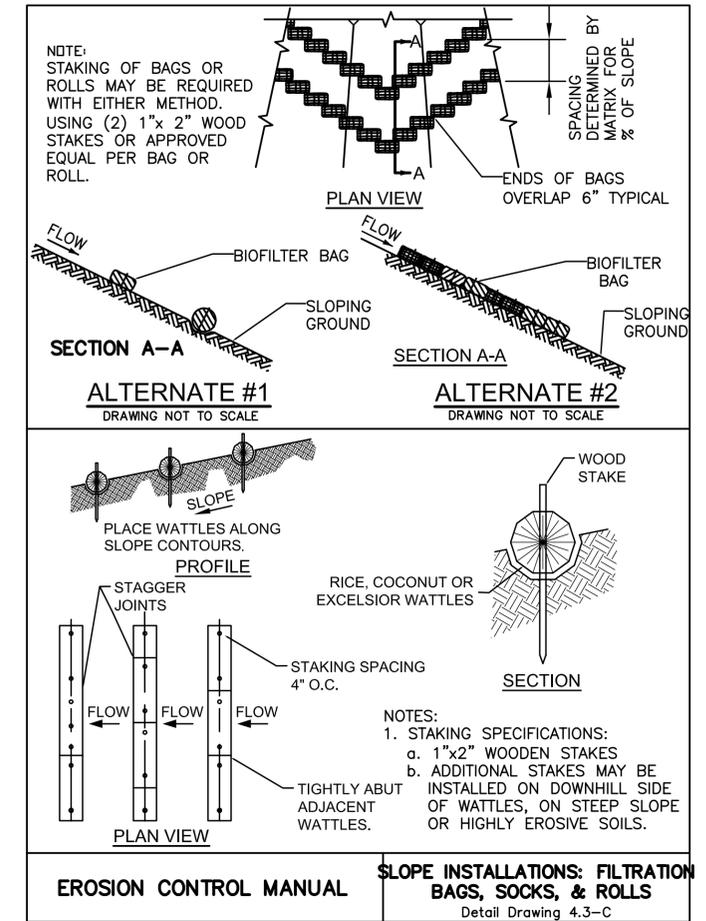
MATTING SLOPE INSTALLATION
Detail Drawing 4.5-C



EROSION CONTROL MANUAL

GRAVEL CONSTRUCTION ENTRANCE

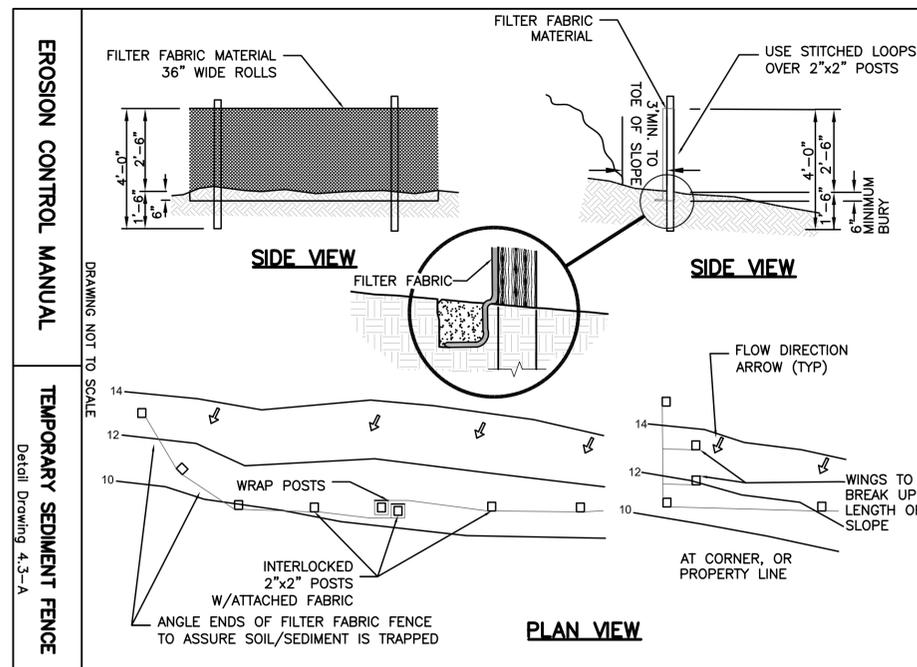
Detail Drawing 4.2-A



EROSION CONTROL MANUAL

SLOPE INSTALLATIONS: FILTRATION BAGS, SOCKS, & ROLLS

Detail Drawing 4.3-C



GENERAL EROSION CONTROL PLAN NOTES

- APPROVAL OF THIS EROSION AND SEDIMENT CONTROL PLAN (ESCP) DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTIONS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
- THE IMPLEMENTATION OF THIS ESCP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESCP FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
- THE ESCP FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
- THE ESCP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESCP FACILITIES SHALL BE UPGRADED AS NEEDED FOR THE UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.
- THE ESCP FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ALL SOIL DEPOSITED ON THE STREET THAT IS CAUSED BY CONSTRUCTION IN THE STREET SHALL IMMEDIATELY BE SWEEPED UP OR OTHERWISE CLEANED UP TO PREVENT IT FROM BEING WASHED AWAY OR TRACKED AWAY BY PEDESTRIAN OR VEHICULAR TRAFFIC.

NO.	DATE	DESCRIPTION	APPD.
REVISION			

XREF(S) USED: X8378	DESIGNED BY: SMS	DATE APPD.
ROTATION ANGLE: 0°00'00"	DRAWN BY: JLO	PROGRAM MGR: STC
CONSTRUCTED BY:	CHECKED BY: LCS	CONST. MGR: PGG
PROJECT COMPLETED:	DESIGN MGR: LCS	
MAP CORRECTED BY:		
CHECKED BY:		
FINAL MAP DATA		
8378CE03.DWG 12/24/09		

DESIGNED BY: SMS	DATE APPD.
DRAWN BY: JLO	PROGRAM MGR: STC
CHECKED BY: LCS	CONST. MGR: PGG
DESIGN MGR: LCS	

CITY OF PORTLAND
ENVIRONMENTAL SERVICES

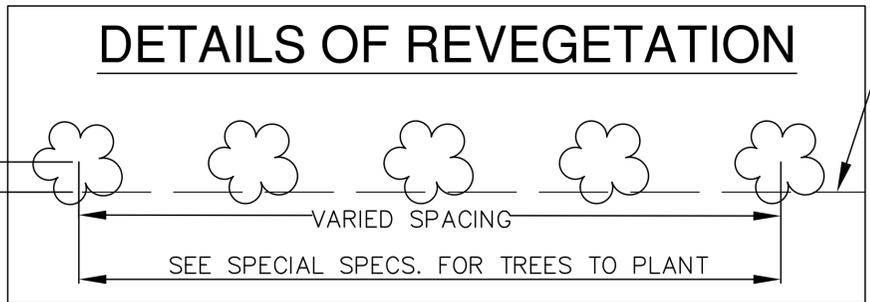
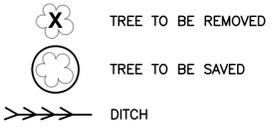


**ELK ROCK BYPASS
EROSION CONTROL DETAILS**

1/4 SECTION
4231
JOB NO.
E08378
SHEET NO.
CE02
6 OF 7

EXISTING TREE STATUS								
NO.	DIA.	10"-12"	13"-23"	24"±	ASH	MAPLE	DOUGLAS FIR	ALDER
1	12	1			1			
2	23		1				1	
3	15		1			1		
4	26			1	1			
5	14		1		1			
6	10	1			1			
7	12	1			1			
8	10	1			1			
9	14		1		1			
10	12	1			1			
11	24			1			1	
12	14		SAVE				SAVE	
13	14		SAVE					SAVE
14	16		SAVE		SAVE			
15	14		1		1			
16	12	SAVE			SAVE			
17	14		SAVE		SAVE			
18	14		1		1			
19	12	1			1			
TOTAL		6	6	2	14	1	3	1

LEGEND



SOUTH AND WEST EDGE OF PERMANENT EASEMENTS ADJOINING EXISTING PRIVATE PROPERTY

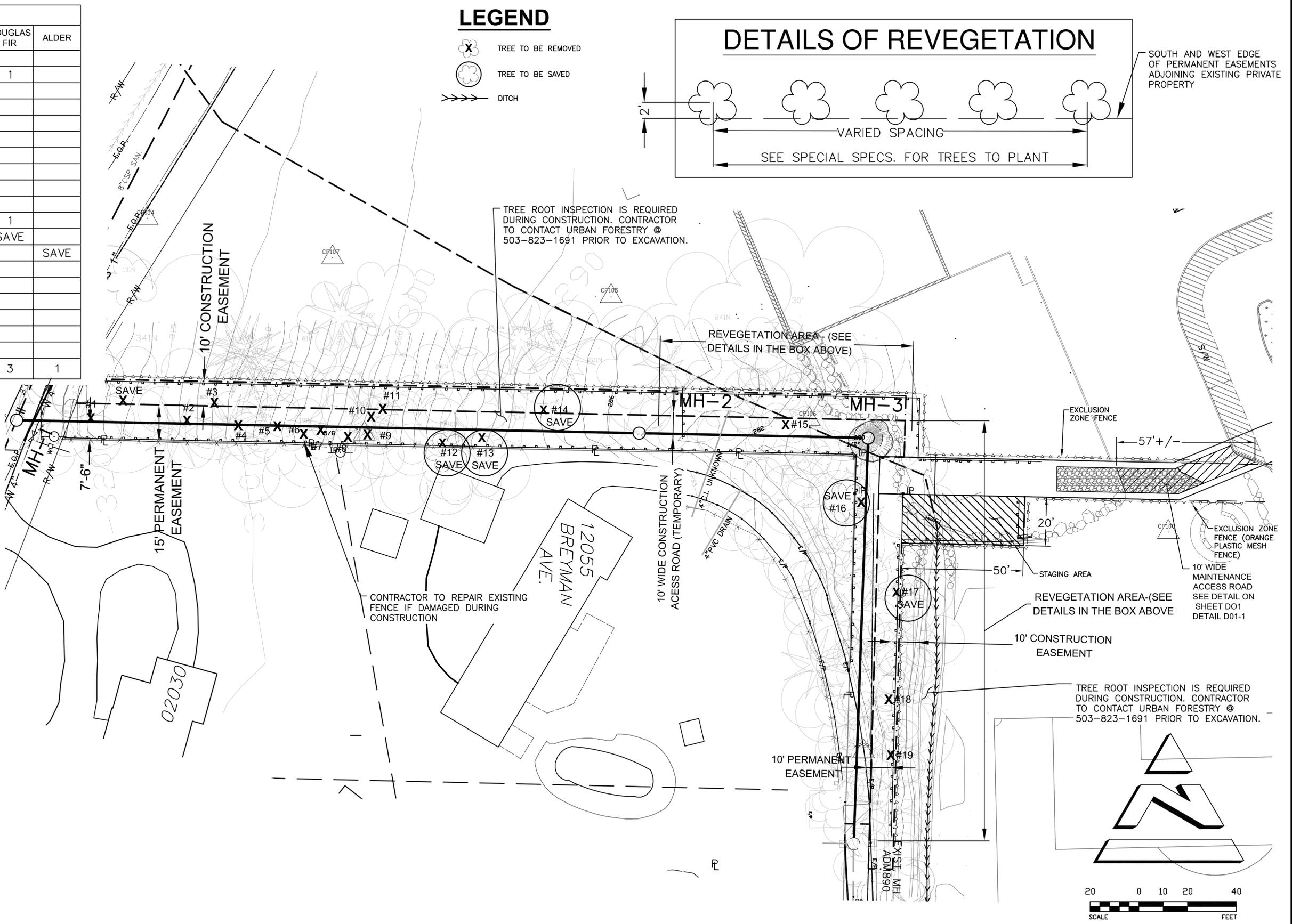
CONSTRUCTION RESTORATION NOTES

ALL DISTURBED AREAS IN UNIMPROVED AREAS SHALL BE RESTORED BY ONE OF THE FOLLOWING METHODS AFTER APPLYING 6" OF SELECTED TOPSOIL (SPEC. 1040.14(a)).

- RESTORATION OF SLOPED AREAS (FROM MH-1 TO MH-2):
 MATTING (SPEC. 280.46(i)) LANDLOK 407 OR EQUIVALENT (DETAILS IN SHEET CE02) WITH OWNER SUPPLIED SEED. SEEDING SHALL BE SPREAD BY THE METHOD "D" IN SPEC. 1040.48 (d)
- RESTORATION OF FLAT AREAS (FROM MH-2 TO EXISTING MH):
 STRAW MULCH (SPEC. 1030.15) WITH OWNER SUPPLIED SEED. SEEDING SHALL BE SPREAD BY THE METHOD "D" IN SPEC. 1040.48 (d)

CONSTRUCTION NOTE:

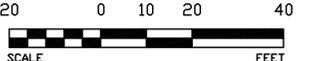
- RIVERDALE SCHOOL RECONSTRUCTION PROJECT (PRIVATE) IS IN CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE PRIVATE CONTRACTOR OF THE SCHOOL PROJECT CLOSELY.
- CONTRACTOR TO PROTECT ALL EXISTING A/C SURFACES. PAINT MARKINGS ON PARKING LOT, AND SCHOOL STRUCTURE. REPAIR OF ANY DAMAGES WILL BE CONTRACTOR'S RESPONSIBILITY.



TREE ROOT INSPECTION IS REQUIRED DURING CONSTRUCTION. CONTRACTOR TO CONTACT URBAN FORESTRY @ 503-823-1691 PRIOR TO EXCAVATION.

REVEGETATION AREA - (SEE DETAILS IN THE BOX ABOVE)

TREE ROOT INSPECTION IS REQUIRED DURING CONSTRUCTION. CONTRACTOR TO CONTACT URBAN FORESTRY @ 503-823-1691 PRIOR TO EXCAVATION.



NO.	DATE	DESCRIPTION	APPD.
REVISION			

XREF(S) USED: X8378	DESIGNED BY: []	DATE APPD.:
ROTATION ANGLE: 0°00'00"	DRAWN BY: []	PROGRAM MGR: []
CONSTRUCTED BY: []	CHECKED BY: []	CONST. MGR: []
PROJECT COMPLETED:	MAP CORRECTED BY: []	CHECKED BY: []
FINAL MAP DATA	DESIGN MGR: []	
8378CE03.DWG 12/24/09		

CITY OF PORTLAND
ENVIRONMENTAL SERVICES



**ELK ROCK BYPASS
CONSTRUCTION MANAGEMENT PLAN**

1/4 SECTION	4231
JOB NO.	E08378
SHEET NO.	CE03
	7 OF 7