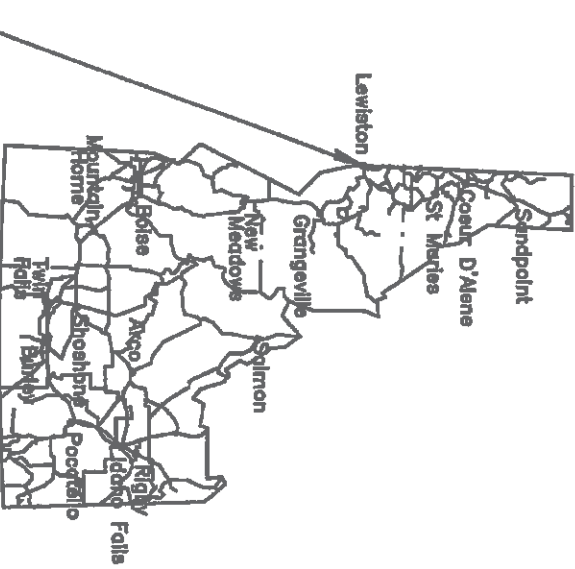
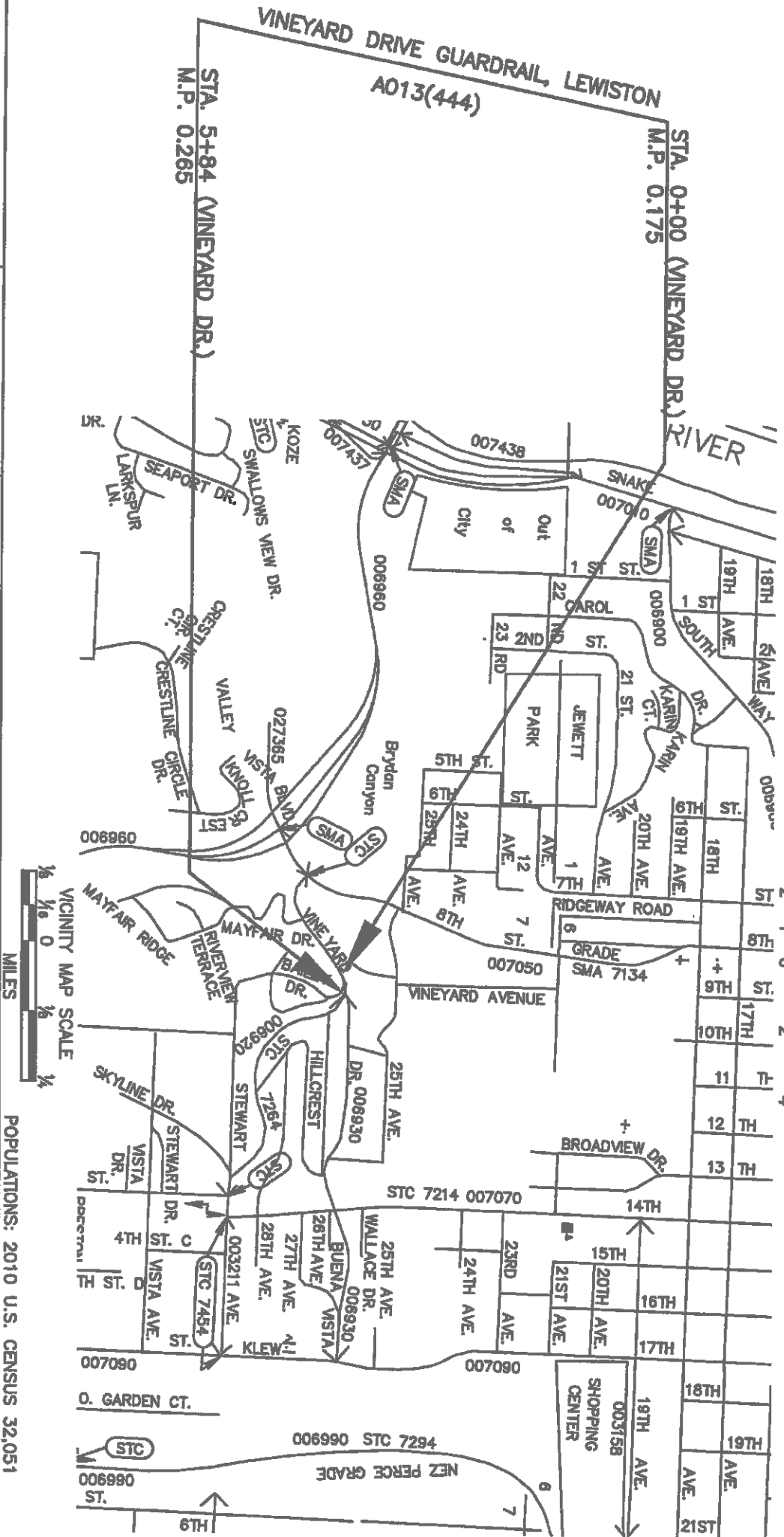


INDEX OF SHEETS	
ROADWAY PLANS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PROJECT CLEARANCE SUMMARY
3	ROADWAY SUMMARY
4-5	TYPICAL SECTION SHEETS
6	CONTROL & SITE PLAN
7	REMOVAL PLAN
8-10	PLAN & PROFILE SHEETS
11	DETAILS
12	TRAFFIC DETOUR PLAN
13	EROSION & SEDIMENT CONTROL

IDAHO
TRANSPORTATION DEPARTMENT

PLAN AND PROFILE OF PROPOSED
VINEYARD DRIVE GUARDRAIL, LEWISTON
FEDERAL AID PROJECT NO. A013(444)
KEY NO. 13444

October 2017



A013(444)
VINEYARD DRIVE GUARDRAIL, LEWISTON
M.P. 0.175 - M.P. 0.265
SEGMENT CODE 006920

DESIGN DESIGNATION	
ADT 2007	3557
ADT 2040	N/A
DHV 2007	356
DHV 2040	N/A
D	60/40
V	25 MPH
TRUCKS:	3%

REVISIONS	
NO.	DATE

THE DIMENSIONS SHOWN ON THIS PLAN SHALL BE ATTAINED WITHIN THE LIMITS OF PRECISION THAT GOOD CONSTRUCTION PRACTICES WILL PERMIT

SCALE: SHOWN AS FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 13444RDLWG

DRAWING DATE: 10/08/2017

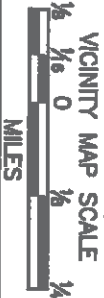
IDAHO
TRANSPORTATION
DEPARTMENT

PROJECT NO. A013(444)

TITLE SHEET

VINEYARD DRIVE GUARDRAIL, LEWISTON

POPULATIONS: 2010 U.S. CENSUS 32,051



English

COUNTY Nez Perce
KEY NUMBER 13444

APPROVED BY
12-12-2017
DATE APPROVED

ACCESS CONTROL DETERMINATION
FROM FORM ITD-606 (SUBMITTED FOR CHANGE ONLY)

Approved by Assistant Chief Engineer (Dev.): N/A
Date

PROJECT NO. A13(444)
LOCATION CITY OF LEWISTON
INTERSECTION VINEYARD DRIVE & VINEYARD AVENUE

DESCRIPTION OF CONTROL TYPE: CITY OF LEWISTON

ESTIMATING DATA FOR ROADWAY

TACK COAT: CSS-1 diluted emulsified asphalt for tack at 0.07 GAL/SY.
Tack shall be incidental.

FLEXIBLE PAVEMENT: Superpave Hot Mix Asphalt Class SP-3, with PG 58-28 Asphalt Binder and 3/4" Aggregate, Plant Mix including Asphalt, Additives, and Aggregate is estimated at 155 PCF.

AGGREGATE FOR BASE: ¾" Aggregate Type B for Base estimated at 140 PCF, including 7% moisture.

COMPACTION: All Compaction Shall be Class A.

GRANULAR BORROW: Estimated at 140 PCF including 7% moisture.

CLEARANCES

PROJECT STANDARDS
CONCEPT APPROVAL ☐ AASHTO ☐ 3R ☐ 1R ☒ STATE
DESIGN EXCEPTIONS: ☐ PM ☐ OTHER

PUBLIC HEARING WAIVER
PUBLIC HEARING DATE (latest hearing date held or scheduled for opportunity)
DESIGN APPROVAL
RECLAMATION PLAN APPROVAL NO(S)
AIRPORT
R/W CERTIFICATE: Issued by ☒ HO ☐ DISTRICT
TRIBAL LANDS: ☐ AGREEMENT REQUIRED ☐ SPECIAL PROVISIONS FOR CONTRACT PROPOSAL
BRIDGE PS & E
ENVIRONMENTAL DECISION: TYPE ☒ CAT-EX ☐ FONSI ☐ ROD
ENVIRONMENTAL RE-EVALUATION

PERMITS

IDAHO DEPARTMENT OF WATER RESOURCES PERMIT NO(S)
US ARMY CORPS OF ENGINEERS 404 PERMIT NO(S)
OTHER
DEQ SECTION 401 WATER QUALITY CERTIFICATION
NPDES GENERAL PERMIT/SWPPP REQUIRED:
THIRD PARTY INSPECTION REQUIRED
EROSION AND SEDIMENT CONTROL PLAN REQUIRED

AGREEMENTS (List Appropriate Name)

LOCAL: CITY State/Local Agreement #6203 (PD)
COUNTY
HIGHWAY DISTRICT
ROAD CLOSURE AND MAINTENANCE
STATE/LOCAL CONSTRUCTION

IRRIGATION DISTRICT(S): Crossing Agreement Required
(Signatures Required on either Structure Drawing or Bridge Sheet)

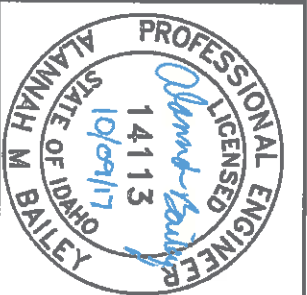
UTILITIES: List all utilities shown on plans

Co. AMSTA UTILITIES (ELECTRIC & GAS)	☒	RETAIN & PROTECT	UTILITY HEARING WAIVER	AGREEMENT	AGREEMENT NO.
Co. CITY OF LEWISTON (WATER, SANITARY, STORM)	☒		N/A	N/A	
Co. CENTURYLINK (TELEPHONE & FIBER OPTICS)	☒		N/A	N/A	
Co. CABLEONE (CABLE)	☒		N/A	N/A	
Co.	☐				
Co.	☐				
Co.	☐				

RAILROAD Let all Railroad encroached upon

Co.		+ AGREEMENT FOR	EFFECTIVE DATE	+ AGREEMENT NO.
Co.		N/A		

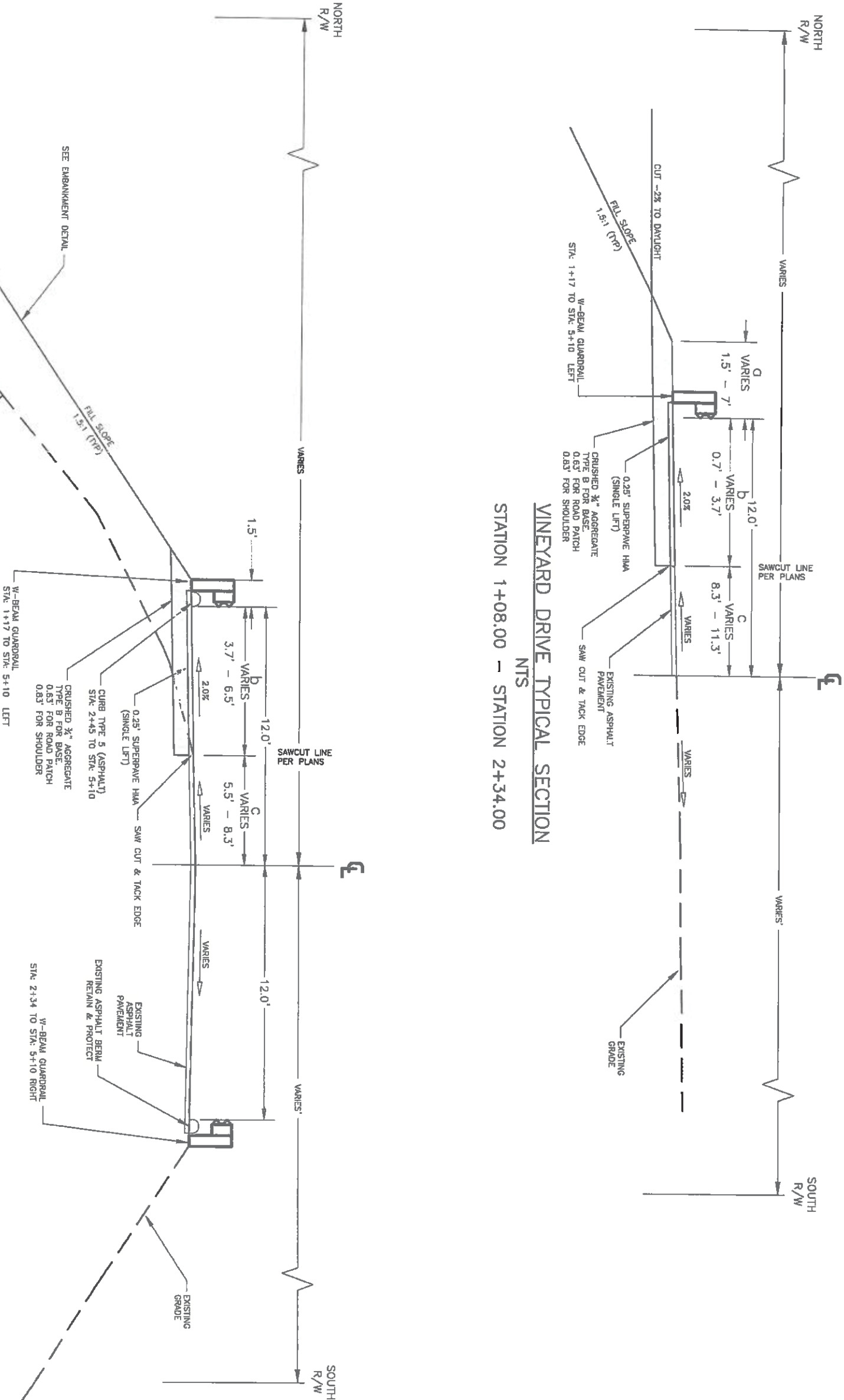
REVISIONS		DESIGNED A. BAILEY		SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		PROJECT NO. A013(444)		PROJECT CLEARANCE SUMMARY		COUNTY Nez Perce		SHEET 2 OF 13	
NO. DATE BY		DESCRIPTION		DESIGN CHECKED S. STUBBERS		CITY OF LEWISTON DEPARTMENT		VINEYARD DRIVE GUARDRAIL, LEWISTON		KEY NUMBER 13444			
				DETAILED A. BAILEY									
				DRAWING CHECKED S. STUBBERS									
				DRAWING DATE 10/09/2017									



[illegible]

VARYING QUANTITIES TABLE			
Station	a	b	c
1+08	7.0'	0.7'	11.3'
1+17	7.0'	0.9'	11.1'
1+25	6.0'	1.0'	11.0'
1+50	5.9'	1.6'	10.4'
1+75	5.5'	2.1'	9.9'
2+00	4.8'	2.6'	9.4'
2+25	3.5'	3.4'	8.6'
2+34	1.5'	3.7'	8.3'
2+50		4.3'	7.7'
2+75		5.3'	6.7'
3+00		6.5'	5.5'
3+50		6.5'	5.5'
4+00		6.5'	5.5'
4+25		6.5'	5.5'

VINEYARD DRIVE TYPICAL SECTION
NTS
STATION 1+08.00 – STATION 2+34.00



VINEYARD DRIVE TYPICAL SECTION
NTS
STATION 2+34.00 – STATION 4+25.00

REVISIONS	
NO.	DATE

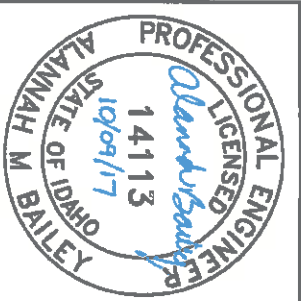
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DESIGN CHECKED	S. STUBBERS
DETAILED	A. BAILEY
DRAWING CHECKED	S. STUBBERS

SCALES SHOWN ARE FOR 1" X 17" PRINTS ONLY
CADD FILE NAME
13444-tyr.dwg
DRAWING DATE
10/09/2017

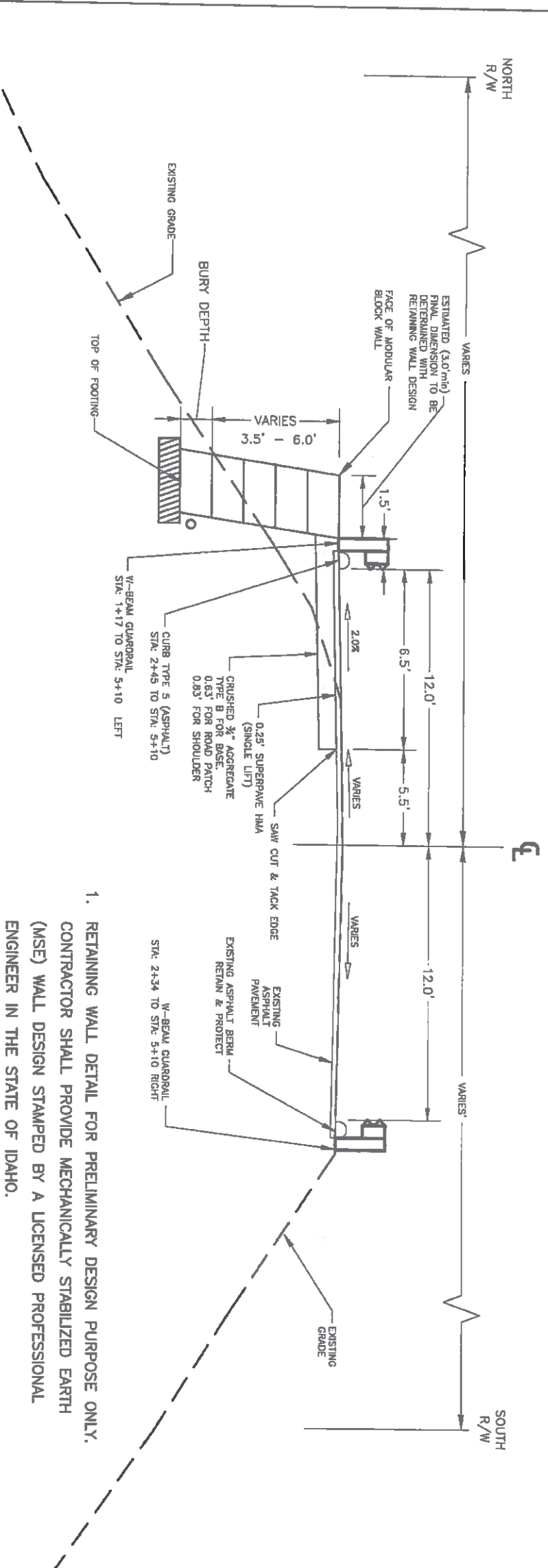
PROJECT NO.
A013(444)

TYPICAL SECTIONS SHEET
VINEYARD DRIVE GUARDRAIL, LEWISTON

COUNTY	Nez Perce
KEY NUMBER	13444
SHEET 4	OF 13



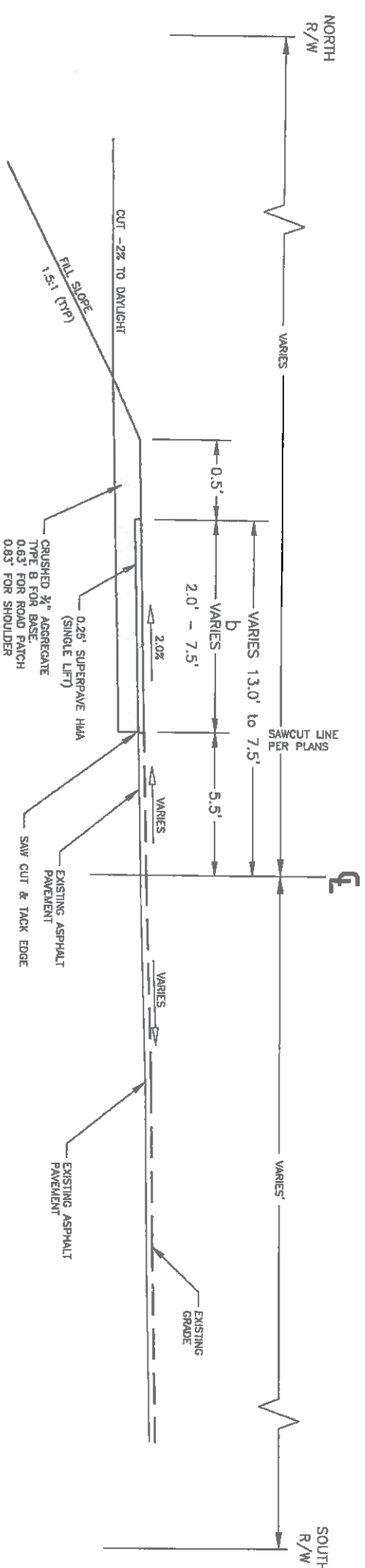
Station	a	b	c
5+11		7.5'	
5+25		6.2'	
5+50		4.1'	
5+75		2.0'	



VINEYARD DRIVE TYPICAL SECTION

NTS

STATION 4+25.00 - STATION 5+10.00



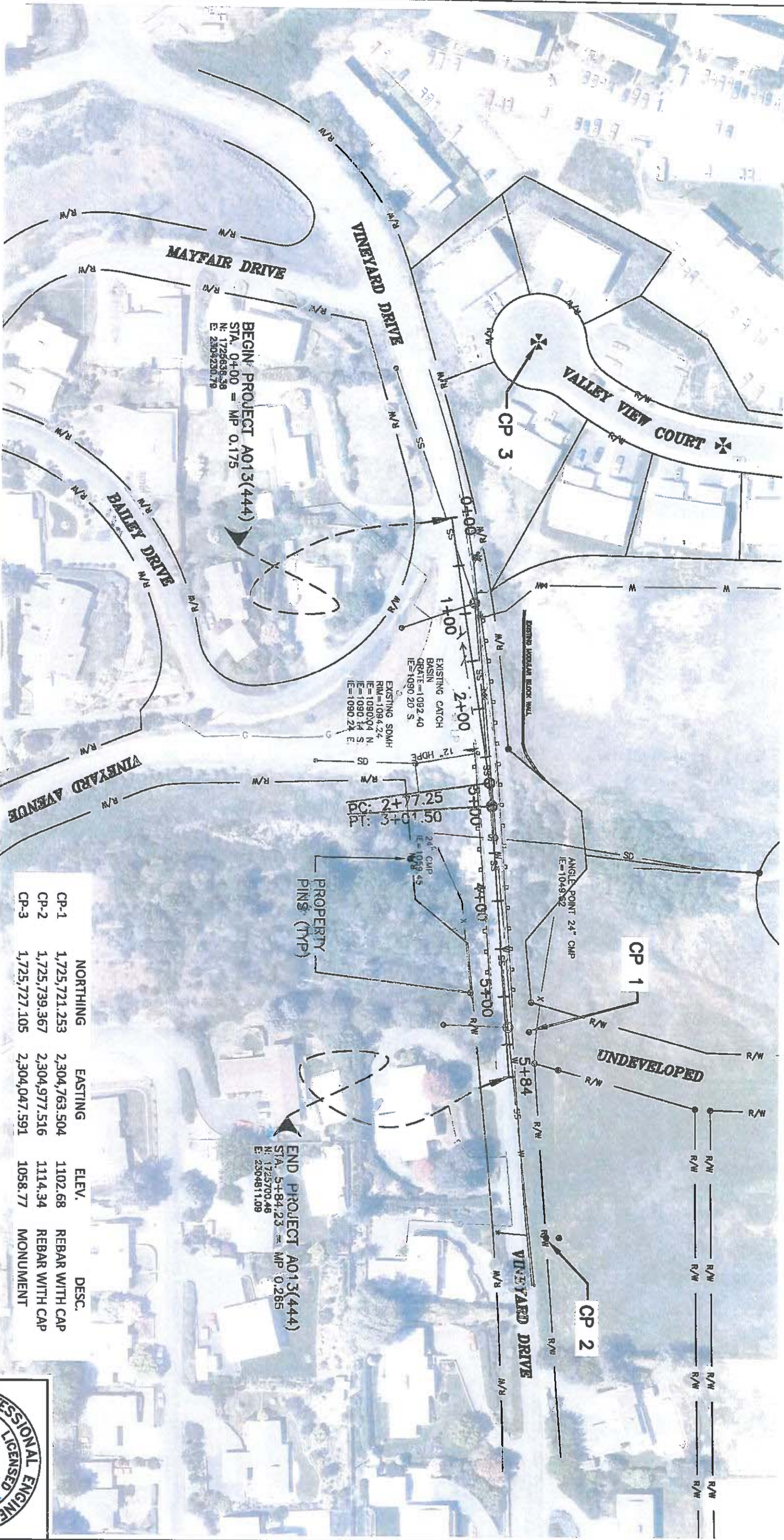
VINEYARD DRIVE TYPICAL SECTION

NTS

STATION 5+10 - STATION 5+75

NO.		DATE		BY		REVISIONS	
						DESIGNED A. BAILEY	
						DESIGN CHECKED S. STUBBERS	
						DETAILED A. BAILEY	
						DRAWING CHECKED S. STUBBERS	
						DRAWING DATE: 10/09/2017	
				IDAHO TRANSPORTATION DEPARTMENT 			
PROJECT NO.				TYPICAL SECTIONS SHEET			
A013(444)				VINEYARD DRIVE GUARDRAIL, LEWISTON			
							
COUNTY				KEY NUMBER			
Nez Perce				13444			
SHEET 5				OF 13			

SECTION 7; T. 35 N; R. 5 W., B.M.



	NORTHING	EASTING	ELEV.	DESC.
CP-1	1,725,721.253	2,304,763.504	1102.68	REBAR WITH CAP
CP-2	1,725,739.367	2,304,977.516	1114.34	REBAR WITH CAP
CP-3	1,725,727.105	2,304,047.591	1058.77	MONUMENT

BEGIN PROJECT A013(444)
STA. 0+00 = MP 0.175
N: 1728638.58
E: 2304230.79

END PROJECT A013(444)
STA. 5+84.23 = MP 0.265
N: 1725700.46
E: 2304811.08

PROPERTY
PINS (TYP)

REVISIONS	
NO.	DATE

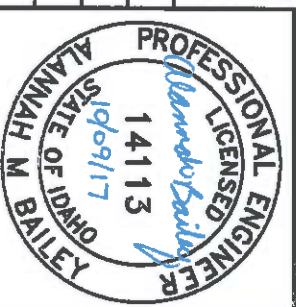
DESIGNED	A. BAILEY
DESIGN CHECKED	S. STUBBERS
DETAILED	A. BAILEY
DRAWING CHECKED	S. STUBBERS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	CADD FILE NAME 13444.dwg	DRAWING DATE 10/09/2017
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PROJECT NO.	A013(444)
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CONTROL & SITE PLAN	VINEYARD DRIVE GUARDRAIL, LEWISTON
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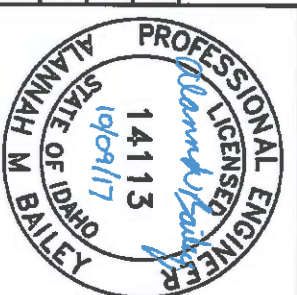
COUNTY	Nez. Perce
KEY NUMBER	13444
SHEET 6	OF 13



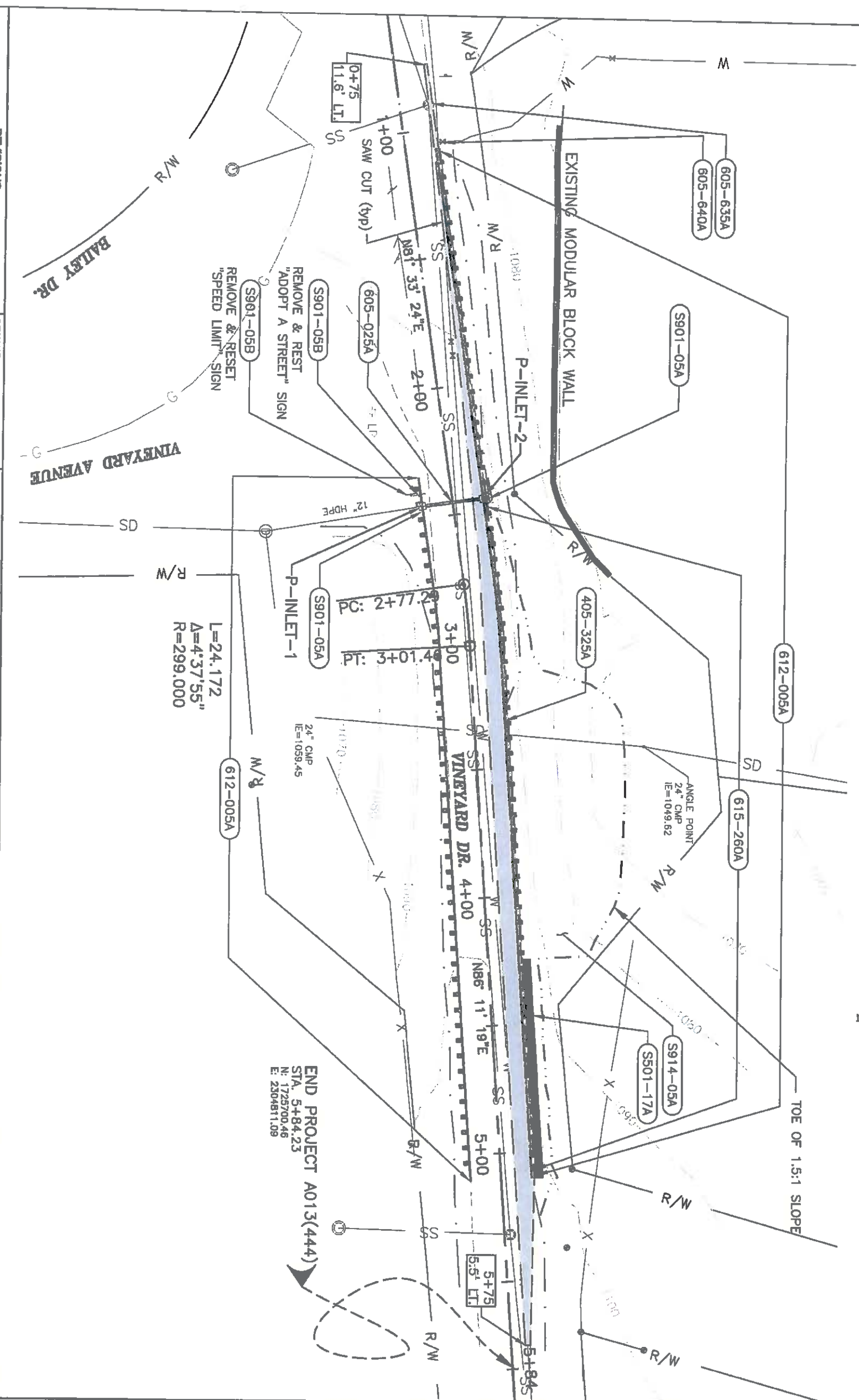


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County	Nez Perce
Key Number	13444
Sheet	7 of 13



SECTION 7: T. 35 N; R. 5 W., B.M.



END PROJECT A013(444)
STA. 5+84.23
N: 1725700.46
E: 2304811.09

- 303-022A 3/4" AGGR TY B FOR BASE 153 TON
- 405-325A SUPERPAVE HMA PAV INCL ASPH & ADD CL SP3 52 TON
- 605-025A 12" STORM SEWER PIPE 22 FT 2+45.14, 11.0'L to 2+45.14, 11.00'R
- 605-635A ADJUST MANHOLE COVERS 1 EA 0+90.42, 11.34'L
- 605-640A ADJUST VALVE COVERS 1 EA 1+05.56, 14.8'L
- 612-005D W-BEAM GUARDRAIL 402 FT 1+08, 12.0'L to 5+10, 12.0'L 276 FT 2+34.00, 12.0'R to 5+10, 12.0'R
- 612-115C GUARDRAIL TERMINAL, TANGENT 4 EA
- 616-260A CURB TYPE 5 (ASPHALT) 265 FT 2+45, 12.0'L to 5+10, 12.0'L
- S501-17A MSE SEGMENTAL BLOCK RETAINING WALL 616 SF 4+25, 13.5'L to 5+10.5, 13.5'L
- S501-05A SP CATCH BASIN TYPE 1 1 EA 2+45.14, 12.0'L 1 EA 2+45.14, 12.0'R
- S801-05B SP REMOVE AND REST SIGN 1 EA 2+39, 15.8'R 1 EA 2+40, 12.5'R
- S914-05A SP SHOT ROCK FOR FILL 890 TON

CALCULATED STATION & OFFSETS
CURB: FACE OF CURB
GUARDRAIL: FACE OF RAIL
CATCH BASIN: FACE OF CURB

REVISIONS	
NO.	DATE

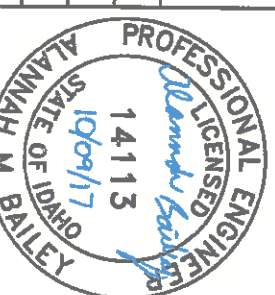
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SCALES SHOWN	SCALES SHOWN
ARE FOR 11" X 17" PRINTS ONLY	ARE FOR 11" X 17" PRINTS ONLY
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DRAWING DATE	DRAWING DATE
10/09/2017	10/09/2017

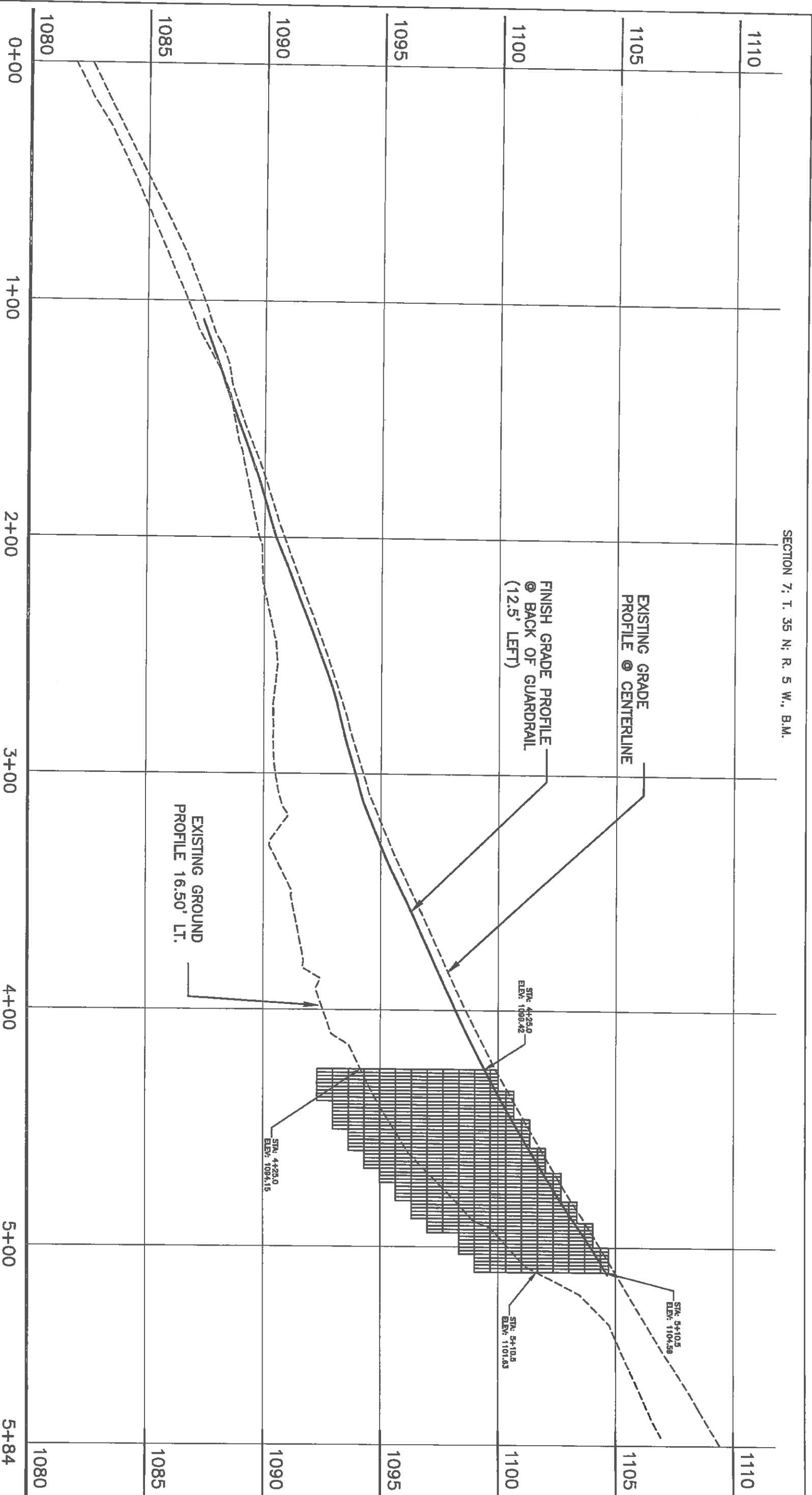
PROJECT NO.	PROJECT NO.
A013(444)	A013(444)

PLAN	PLAN
VINEYARD DRIVE GUARDRAIL, LEWISTON	VINEYARD DRIVE GUARDRAIL, LEWISTON
STA. 0+00 TO STA. 5+84	STA. 0+00 TO STA. 5+84

COUNTY	COUNTY
Nez Perce	Nez Perce
KEY NUMBER	KEY NUMBER
13444	13444
SHEET B	SHEET B
OF 13	OF 13



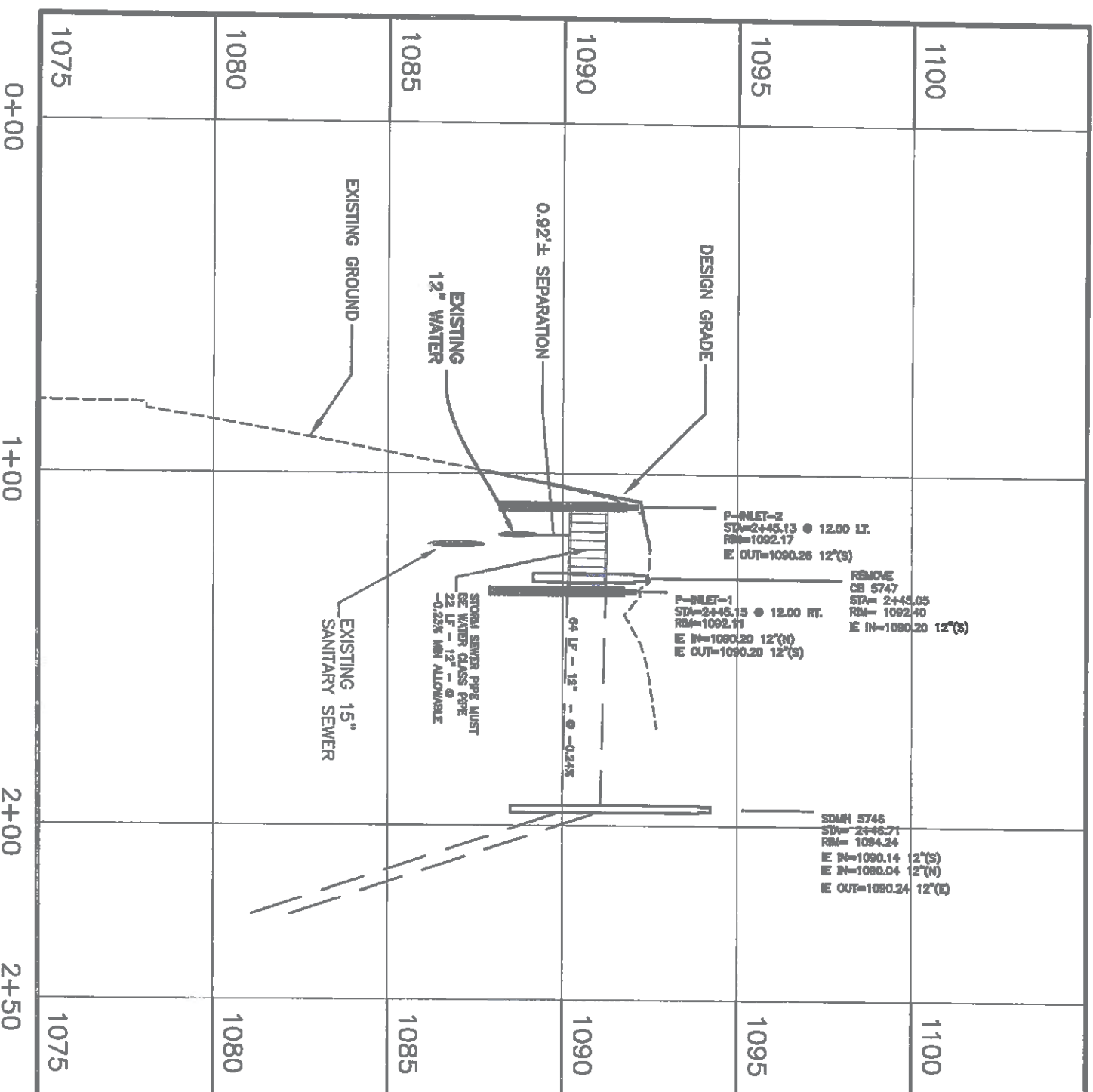
SECTION 7; T. 35 N; R. 5 W., B.M.



1. RETAINING WALL DETAIL FOR PRELIMINARY DESIGN PURPOSE ONLY. CONTRACTOR SHALL PROVIDE MECHANICALLY STABILIZED EARTH (MSE) WALL DESIGN STAMPED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF IDAHO.

REVISIONS		DESIGNED	SCALES SHOWN ARE FOR 1" = 17'	
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED
				S. STUBBERS
				DETAILED
				A. BAILEY
				DRAWING CHECKED
				S. STUBBERS
IDaho TRANSPORTATION DEPARTMENT			PROJECT NO. A013(444)	
CITY OF LEWISTON			PROFILE VINEYARD DRIVE GUARDRAIL, LEWISTON	
English			COUNTY	Nez Perce
			KEY NUMBER	13444
			SHEET 9	OF 13
PROFESSIONAL ENGINEER 14113 10/09/17 STATE OF IDAHO ALANNAH M BAILEY				

SECTION 7; T. 35 N.; R. 5 W., B.M.



REVISIONS			DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
NO.	DATE	BY	DESCRIPTION	
			DESIGN CHECKED S. STUBBERS	CAAD FILE NAME 1344dp.dwg DRAWING DATE 10/09/2017
			DETAILED A. BAILEY	
			DRAWING CHECKED S. STUBBERS	

**IDAHO
TRANSPORTATION
DEPARTMENT**

CITY OF LEWISTON



PROJECT NO.

A013(444)

STORM DRAIN PROFILE

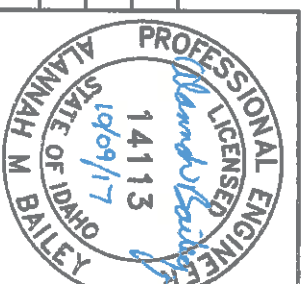
VINEYARD DRIVE GUARDRAIL,
LEWISTON

English

COUNTRY	Nez Perce
USA	1990
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USA	2158

KEY NUMBER	172	218
47444		

SHEET 10 OF 13

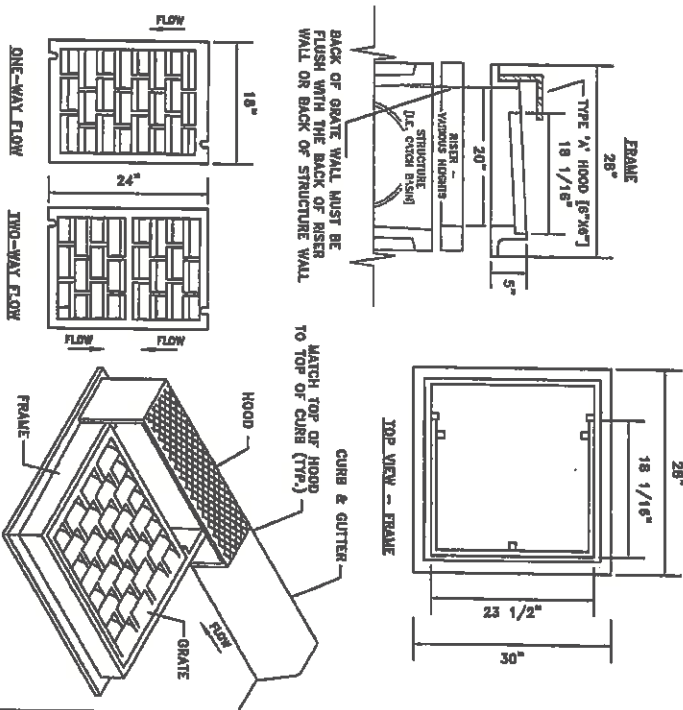


SECTION 7; T. 35 N; R. 5 W., B.M.

- GENERAL NOTES FOR CATCH BASINS
1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/ASHTO M193.
 2. ALL CURB INLET STRUCTURES SHALL HAVE A MINIMUM 12" SLUMP WITH THREE 1 1/2" DIA. WEIR HOLES IN BASE AND MINIMUM OF 12" OF CONCRETE TO BE INSTALLED UNDER BASE, CRUSHED AGGREGATE MATERIAL CONFINED TO 80% MAXIMUM PROCTOR AS PER ASHTO T100.
 3. CATCH BASIN SHALL BE INSTALLED UPWILL TO EXIST INTERSECTION. CATCH BASIN SHALL BE INSTALLED TO PREVENT 400 FEET ALONG THE LENGTH OF THE STREET OR AT ANY INTERSECTION. THE CHANGES TO THE ADJUSTMENTS TO SPACING SHALL REQUIRE CALCULATIONS TO VERIFY THE CHANGES HAVE MET CITY SPECIFICATIONS.
 4. PRECAST BASINS SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
 5. ALL PIPS SHALL BE FLUSH WITH BASIN WALL AND SHALL BE MORTARED ALL AROUND.
 6. USE CITY STD DWG NO. 6-7 FOR CATCH BASIN FRAME AND GRATE.
 7. REDUCTION SLAB, RISERS, AND FRAME & GRATE SHALL NOT BE MORE THAN ONE RICH OUT OF VERTICAL ALIGNMENT WITH CATCH BASIN BASE.
 8. MAXIMUM DEPTH FROM FINISHED GRADE TO PIPE INVERT IS 6 FEET.
 9. USE A MINIMUM OF 1/2" NON-SHRINK GROUT BETWEEN RISERS, BASE, AND FRAME.
 10. CURB INLET TO BE PLACED WITHIN A TOLERANCE OF 1/2" HORIZONTAL ALIGNMENT FROM CURB LINE.
 11. SET GRATE 1" LOWER THAN PROPOSED FLOWLINE TO ENSURE POSITIVE DRAINAGE INTO CATCH BASIN. CURB FLOWLINE SHALL BE TRANSITION TO 3" ON EACH SIDE OF THE CATCH BASIN TO ADJUST FOR 1" DROP. GUTTER UP AND TOP OF CURB ARE NOT TO BE DEPRESSED.

W:\projects\2016-Standards\Standards\City of Lewiston

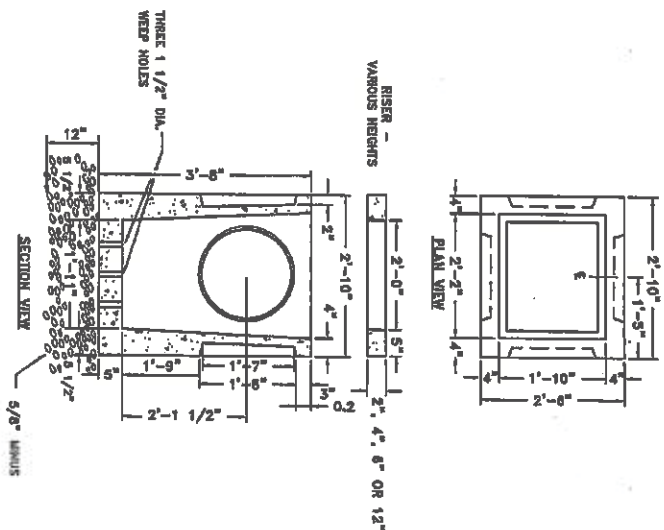
CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
STORMWATER GENERAL CATCH BASIN NOTES	
APPROVED FOR PUBLICATION By: <i>[Signature]</i> City Engineer	DATE 12/13/16 6-6



- NOTES:
1. CURB INLET CATCH BASIN FRAME (D & L SUPPLY - PRODUCT 1-4434), GRATE AND HOOD OR OTHER MANUFACTURER - ~~WILL BE ACCEPTABLE ONLY WITH APPROVAL FROM LEWISTON WORKS DEPT. EQUAL.~~
 2. COVER MATERIAL SPECIFICATION GRAY IRON (ASTM A48 CLASSB)
 3. SEE CITY DWG 6-6 GENERAL NOTES FOR CATCH BASINS.

Example of a standard catch basin frame, grading

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
STORMWATER CATCH BASIN FRAME AND GRATE	
APPROVED FOR PUBLICATION By: <i>[Signature]</i> City Engineer	DATE 12/13/16 6-7



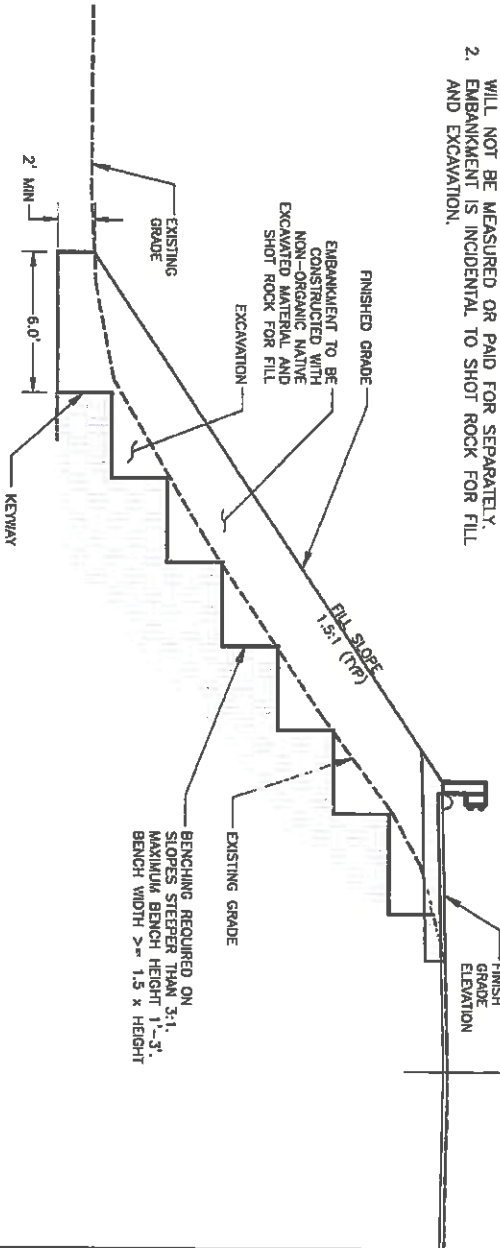
- NOTES:
1. TYPICAL CATCH BASIN (INLET PRECAST PRODUCT #1827) AND RISERS (INLET PRECAST #1830 (FOR 12") OR #1831-2.4.5 (FOR 2'-4" OR 6") OR OTHER MANUFACTURER - ~~WILL BE ACCEPTABLE ONLY WITH APPROVAL FROM LEWISTON WORKS DEPT. EQUAL.~~
 2. SEE CITY DWG 6-6 GENERAL NOTES FOR CATCH BASINS.

W:\projects\2016-Standards\Standards\City of Lewiston

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
STORMWATER TYPE 1 CATCH BASIN	
APPROVED FOR PUBLICATION By: <i>[Signature]</i> City Engineer	DATE 12/13/16 6-8

NOTES

1. BENCHING AND KEYWAY PREPARATION IS INCIDENTAL AND WILL NOT BE MEASURED OR PAID FOR SEPARATELY.
2. EMBANKMENT IS INCIDENTAL TO SHOT ROCK FOR FILL AND EXCAVATION.



TYPICAL EMBANKMENT DETAIL
N.T.S.

REVISIONS		DESIGNED	DESIGN CHECKED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
NO.	DATE	BY	DESCRIPTION	
			DESIGNED	A. BAILEY
			DESIGN CHECKED	S. STUBBERS
			DETAILED	A. BAILEY
			DRAWING CHECKED	S. STUBBERS

IDAHOTransportationDepartment	
CITY OF LEWISTON	

PROJECT NO.	AD13(444)
DETAILS	VINEYARD DRIVE GUARDRAIL, LEWISTON

COUNTY	Nez Perce
KEY NUMBER	13444
SHEET 11 OF 13	



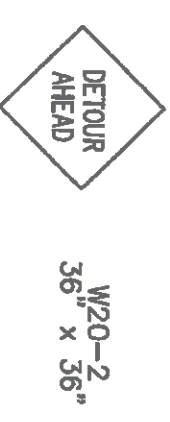
LEGEND

TRAFFIC CONTROL SIGNS



W20-3
36" x 36"

W20-3
36" x 36"



W20-2
36" x 36"

W20-2
36" x 36"



M4-10L & M4-10R
48" x 18"

M4-10L & M4-10R
48" x 18"



R11-4
60" x 30"

R11-4
60" x 30"



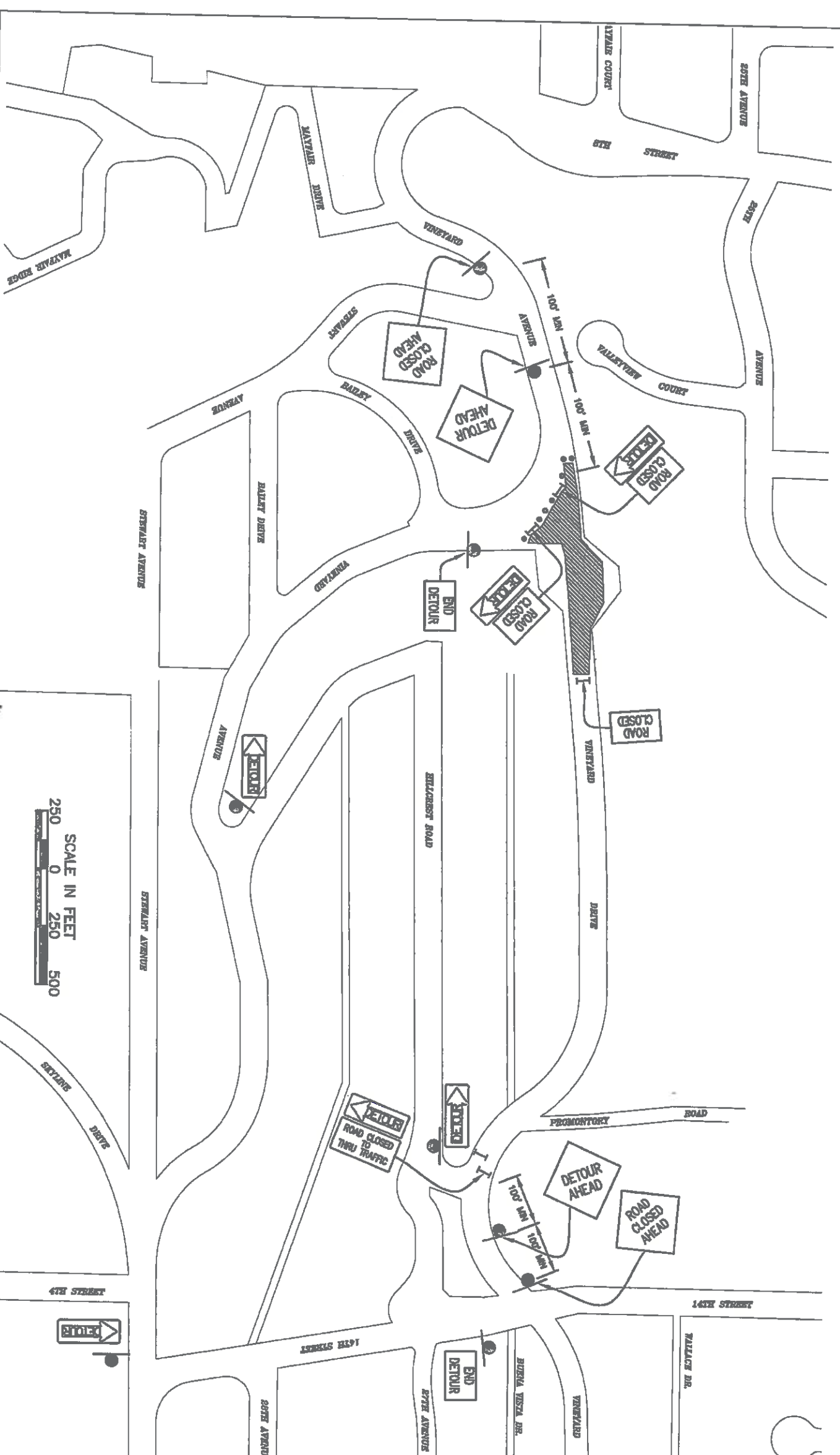
R11-2
48" x 30"

R11-2
48" x 30"



M4-8d
24" x 18"

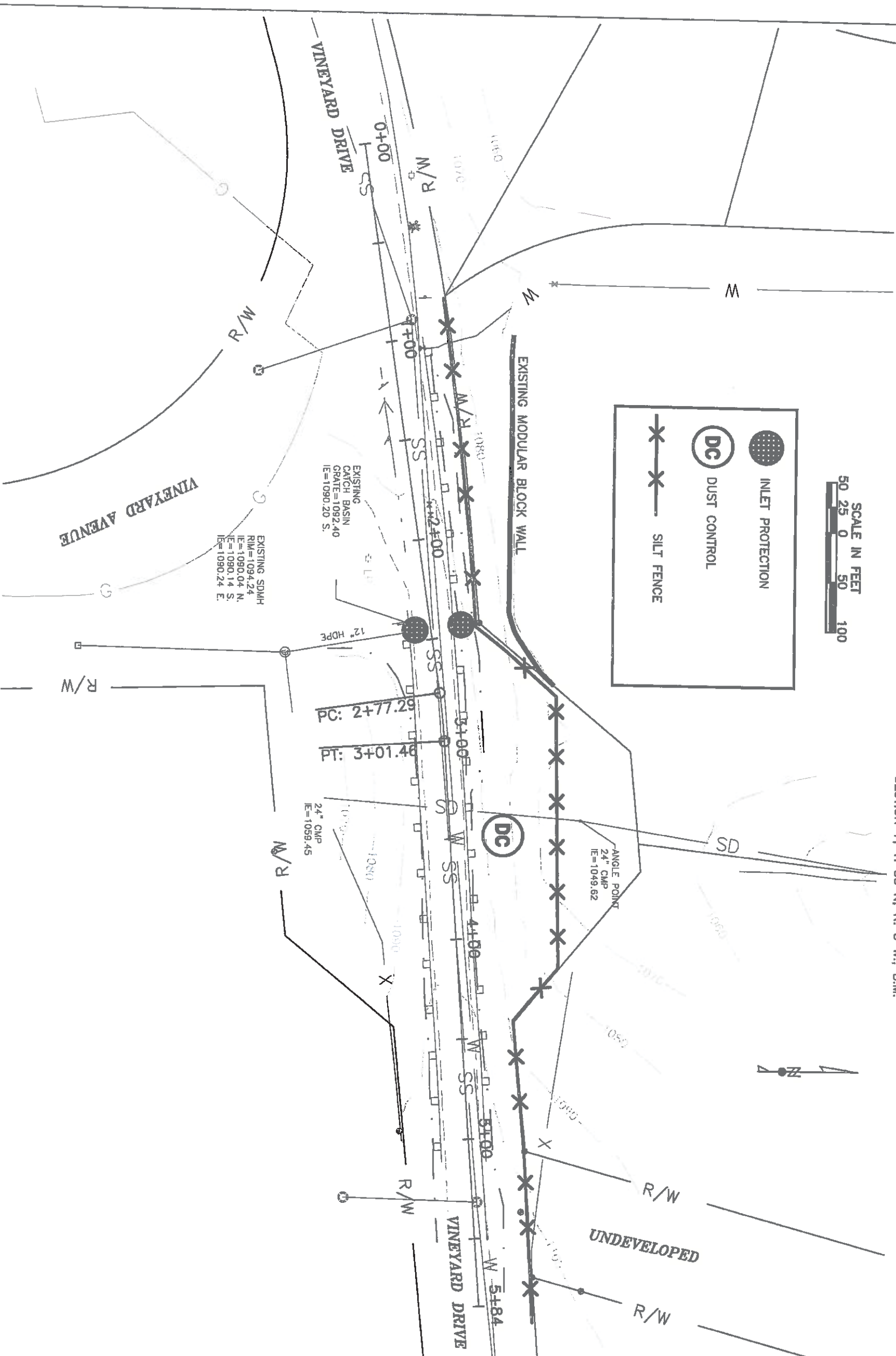
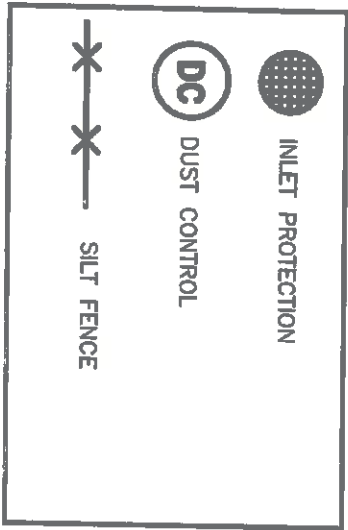
M4-8d
24" x 18"



REVISIONS			DESIGNED	SCALES SHOWN ARE FOR 17" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT 	PROJECT NO.	TRAFFIC DETOUR PLAN	Permits	
NO.	DATE	BY	DESIGN CHECKED					COUNTY	Naz Perce
		Name	S. STUBBERS					KEY NUMBER	13444
			DETAILED						
			A. BAILEY						
			DRAWING CHECKED					DRAWING DATE:	
			S. STUBBERS	10/05/2017				SHEET 12 OF 12	
CITY OF LEWISTON									

SECTION 7; T. 35 N; R. 5 W., B.M.

SCALE IN FEET
50 25 0 50 100



205-060A) WATER FOR DUST ABATEMENT
40 MG

212-020A) SILT FENCE

540 FT

212-095A) INLET PROTECTION

2 EA

REVISIONS	
NO.	DATE

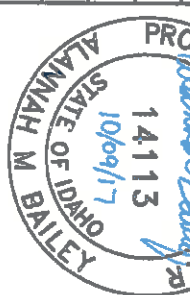
DESIGNED	A. BAILEY
DESIGN CHECKED	S. STUBBERS
DETAILED	A. BAILEY
DRAWING CHECKED	S. STUBBERS

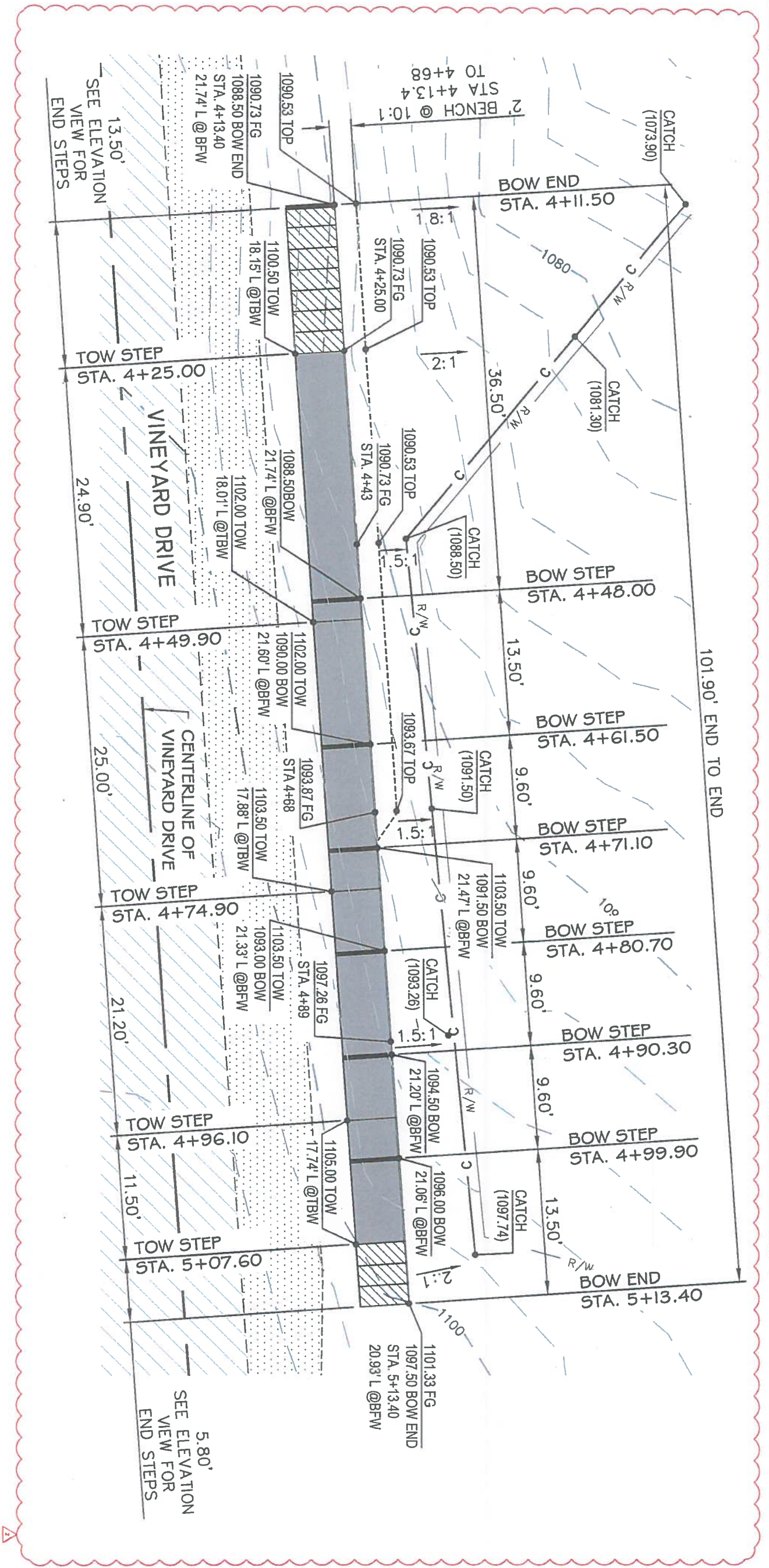
SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
DRAWING DATE

PROJECT NO.
AD13(444)

EROSION & SEDIMENT CONTROL
VINEYARD DRIVE GUARDRAIL, LEWISTON

COUNTY
Nez Perce
KEY NUMBER
13444

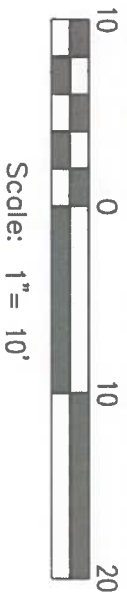




LEGEND

- FG = FINISHED GRADE
- TOP = TOP OF SLOPE
- TOW = TOP OF WALL
- BOW = BOTTOM OF WALL
- TBW = TOP BACK OF WALL
- BFW = BOTTOM FACE OF WALL

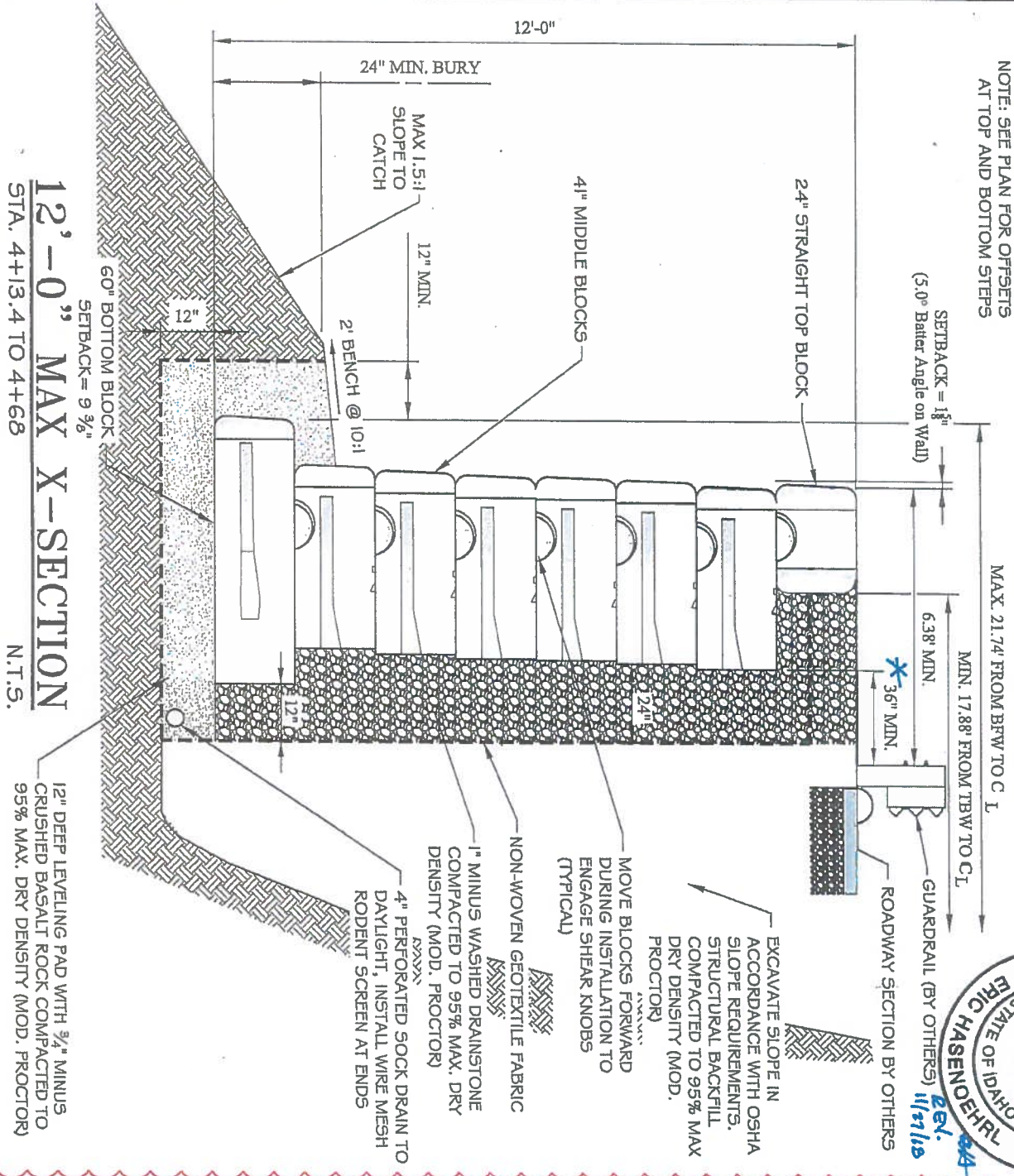
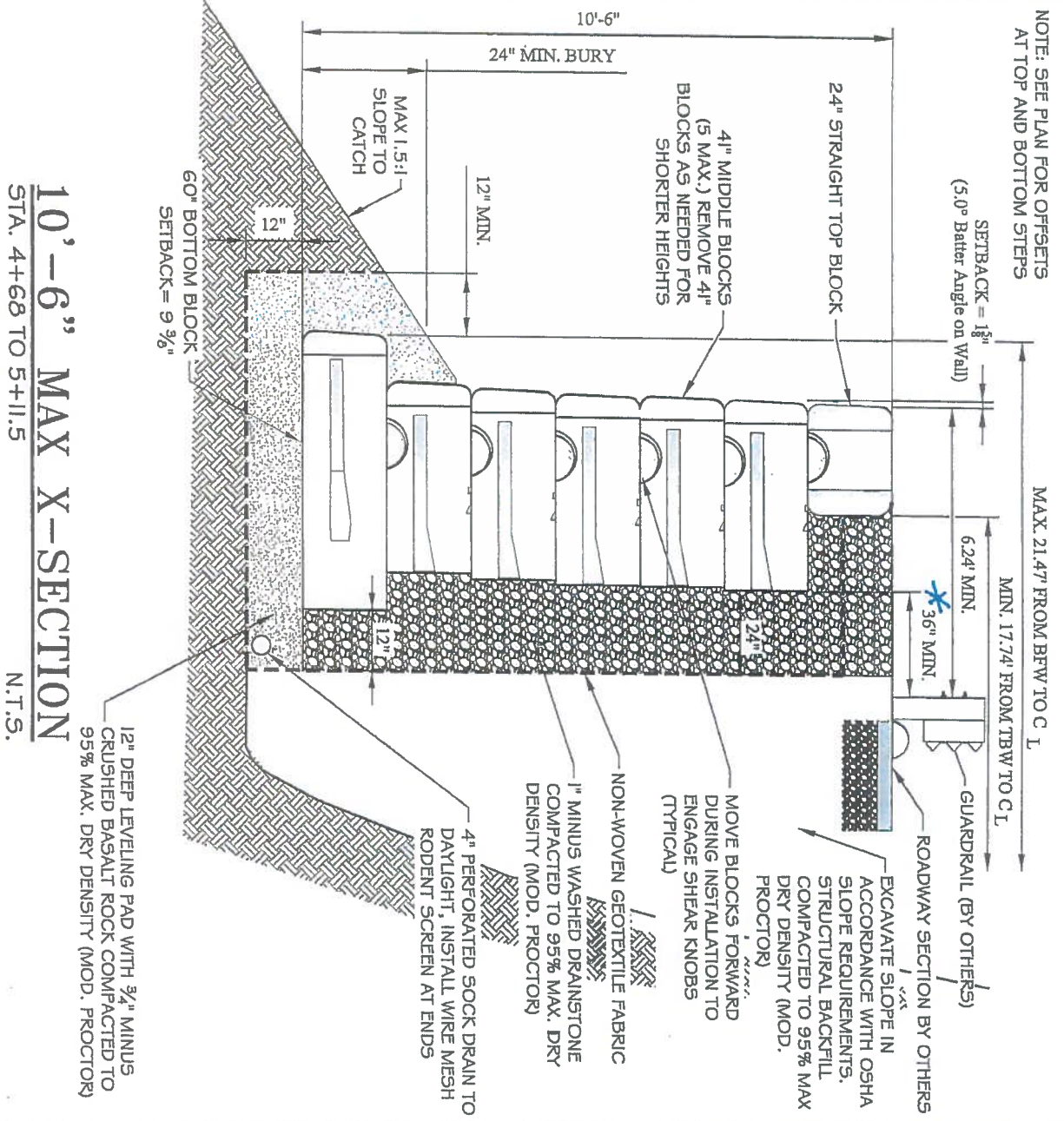
RETAINING WALL PLAN



KELTIC ENGINEERING, INC. 315 Adams Lane • Lewiston, Idaho 83501 • (208) 743-2135 • (208) 743-2136 fax Development • Planning • Design • Construction Management		RETAINING WALL PLAN ITD PROJECT NO. A013 (444) VINEYARD DRIVE LEWISTON, ID 83501		<table border="1"> <thead> <tr> <th>No.</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>08/22/18</td> <td>TML</td> <td>CITY REVIEW COMMENTS 08/22/18</td> </tr> <tr> <td>2</td> <td>08/10/18</td> <td>TML</td> <td>CHANGES REQUESTED BY CITY 08/10/18</td> </tr> </tbody> </table>	No.	DATE	BY	DESCRIPTION	1	08/22/18	TML	CITY REVIEW COMMENTS 08/22/18	2	08/10/18	TML	CHANGES REQUESTED BY CITY 08/10/18
No.	DATE	BY	DESCRIPTION													
1	08/22/18	TML	CITY REVIEW COMMENTS 08/22/18													
2	08/10/18	TML	CHANGES REQUESTED BY CITY 08/10/18													
DRAWN BY: MBE CHECKED BY: EPH DATE: 08/07/18 LAST REV.: 09/19/18 PROJECT NO.: 18-0047 SHEET NO.: 01 OF 03																

REDI-ROCK RETAINING WALL INSTALLATION NOTES:

1. ALL REDI-ROCK RETAINING WALL INSTALLATION SHALL CONFORM TO REDI-ROCK INTERNATIONAL 2016 INSTALLATION GUIDE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY AND ESTABLISHING SAFE BACKSLOPES DURING CONSTRUCTION OF WALL.
2. EXISTING SOILS MUST BE REMOVED TO THE BOTTOM OF THE LEVELING PAD ELEVATION FOR THE RETAINING WALL. THE EXISTING SOILS SHALL BE EVALUATED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE WALL. ANY UNSUITABLE MATERIAL SHALL BE EXCAVATED AND REPLACED AS DIRECTED BY THE PROFESSIONAL ENGINEER. THE BASE MATERIAL MUST BE COMPACTED TO A MINIMUM OF 95% OF ASTM D 1557 MAXIMUM DRY DENSITY (MODIFIED PROCTOR).
3. NON-WOVEN GEOTEXTILE FABRIC SHALL BE TYPE III CONFORMING TO TABLE 718.07-1 OF ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (SSFHC). PLACE A 12" x 18" PIECE OF NON-WOVEN GEOTEXTILE FABRIC IN THE VERTICAL JOINT BETWEEN THE BLOCKS TO HOLD THE BACKFILL MATERIAL BETWEEN THE BLOCKS IN PLACE AND PREVENT MATERIAL FROM "WASHING OUT" THROUGH THE JOINTS BETWEEN BLOCKS. SEE FIGURE 11 ON PAGE 13 OF THE REDI-ROCK INTERNATIONAL 2016 INSTALLATION GUIDE.
4. BACKFILL BETWEEN BLOCKS AND AT LEAST 12 INCHES BEHIND WALL WITH WASHED DRAINSTONE. DRAINSTONE SHALL BE SIZE 2b COARSE AGGREGATE CONFORMING TO SECTION 703.02 C AND TABLE 703.02-6 OF ITD SSFHC. PLACE NON-WOVEN GEOTEXTILE FABRIC BETWEEN THE DRAINSTONE AND THE REMAINING BACKFILL MATERIAL.
5. COMPACT THE WASHED DRAINSTONE AND BACKFILL MATERIAL TO A MINIMUM OF 95% OF ASTM D 1557 MAXIMUM DRY DENSITY (MODIFIED PROCTOR). PLACE IN 8 INCH LIFTS AND USE PROPER EQUIPMENT TO INSURE COMPLETE COMPACTION OF THE BACKFILL MATERIAL.
6. SWEEP THE TOP OF EACH COURSE OF BLOCKS CLEAN BEFORE STARTING CONSTRUCTION OF THE NEXT COURSE.
7. IF GROUND WATER SEEPAGE IS OBSERVED ALONG THE EXPOSED CUT FACE BEHIND THE RETAINING WALL, CONTACT ENGINEER IMMEDIATELY.



NO.	DATE	BY	DESCRIPTION
1	08/22/18	TML	CITY REVIEW COMMENTS 08/22/18
2	09/10/18	TML	CHANGES REQUESTED BY CITY 09/10/18
3	11/27/18	BT	Norm 40000

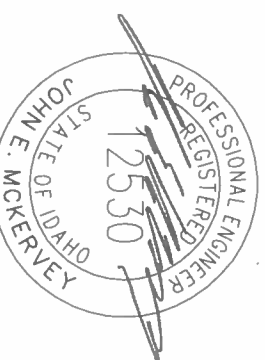
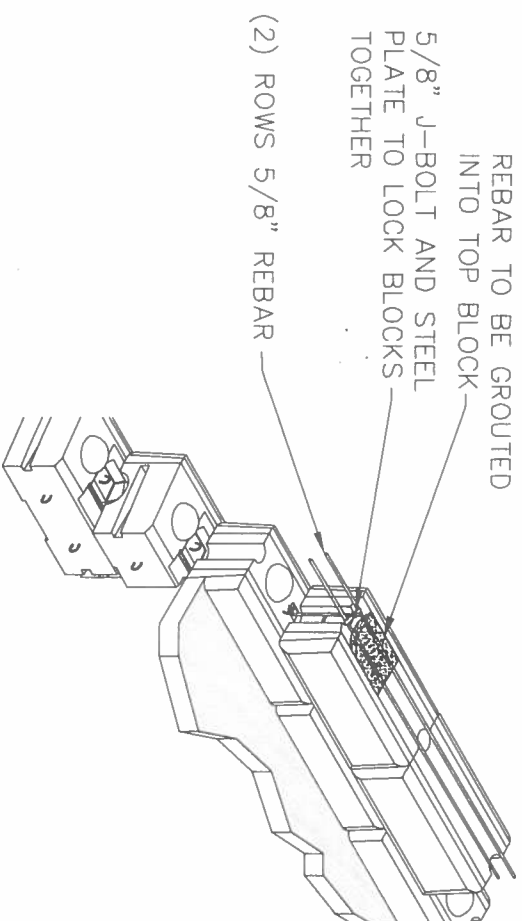
RETAINING WALL DETAILS
ITD PROJECT NO. A013 (444)
VINEYARD DRIVE
LEWISTON, ID 83501

KELTIC ENGINEERING, Inc.
315 Adams Lane • Lewiston, Idaho 83501 • (208) 743-2135 • (208) 743-2136 fax
Development • Planning • Design • Construction Management

DRAWN BY: MJSR	CHECKED BY: EPH
DESIGNED BY: TML	DATE: 04/07/16
PROJECT NO: 10-0047	LAST REV: 09/19/16
SHEET NO: 03 OF 03	

* IF ANY PORTION IS LESS THAN 36" THEN REPLACE ENTIRE TOP BLOCK WITH FORCE PROTECTION BLOCK (SEE ATTACHED DETAIL). IN NO CASE SHALL THE DISTANCE BE LESS THAN 12'-0" 11/27/18

THE FORCE PROTECTION SYSTEM
INCORPORATED IN THIS WALL SYSTEM
IS CAPABLE OF WITHSTANDING A 6,000 LBS
POINT LOAD IN ACCORDANCE WITH
ASCE 7-10 SECTION 4.5.3

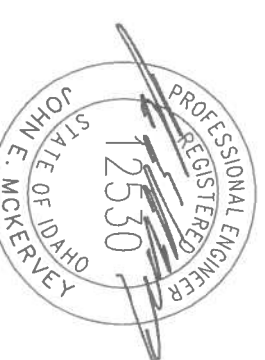
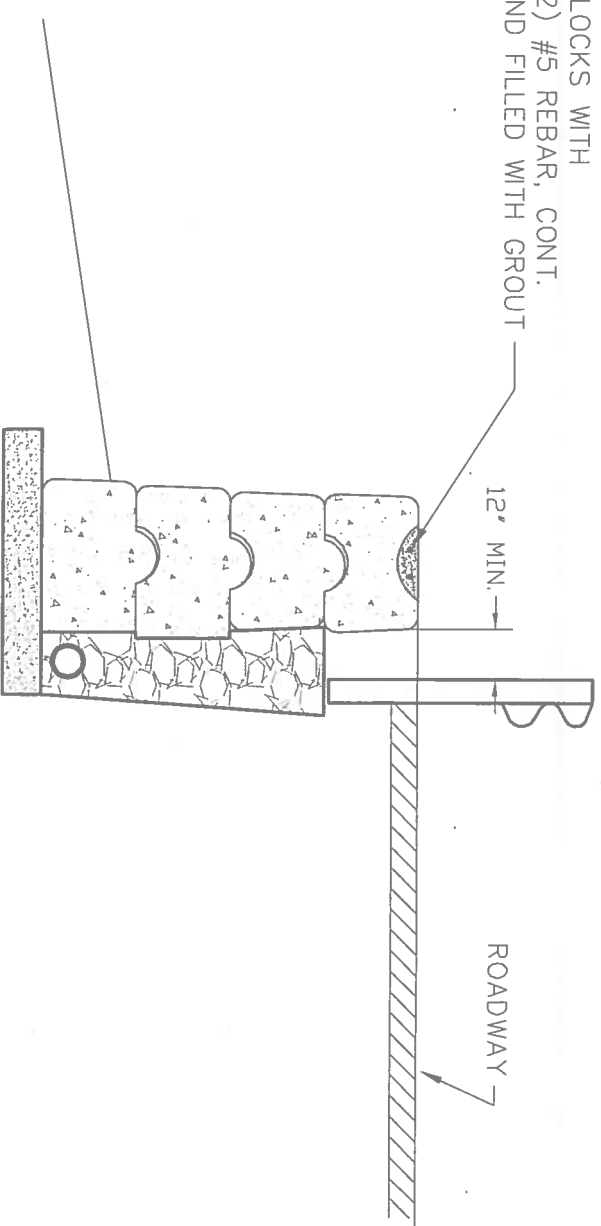


JM ENGINEERING

2706 N. BLUE RAVEN LANE
SPOKANE, WASHINGTON 99224
(509) 455-8760 / CELL (509) 953-9771

VINEYARD ROAD
ROADSIDE RETAINING WALLS
FORCE PROTECTION SYSTEM
JOB #: 18-522
DATE: NOVEMBER 2018

REDI ROCK
FREE STANDING
BLOCKS WITH
(2) #5 REBAR, CONT.
AND FILLED WITH GROUT



JM ENGINEERING

2706 N. BLUE RAVEN LANE
SPOKANE, WASHINGTON 99224
(509) 244-1619 / CELL (509) 953-9771

VINEYARD ROAD
ROADSIDE RETAINING WALLS
WALL SECTION WITH BARRIER
JOB #: 18-522
DATE: NOVEMBER 2018