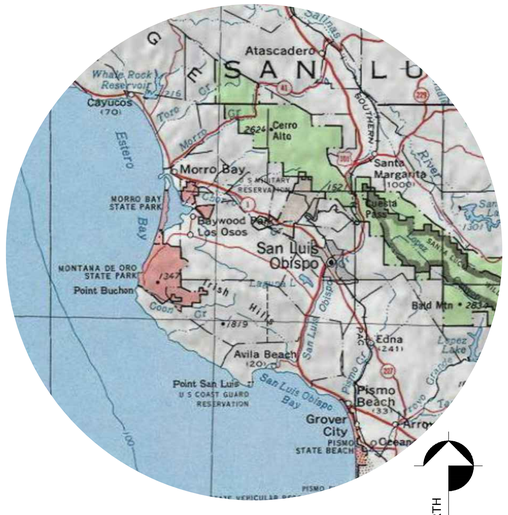
CAVE LANDING

BIKE PATH AND PARKING LOT IMPROVEMENTS

(PRELIMINARY DESIGN PLANS)



PROJECT VICINITY

SCALE: NTS

PROJECT LOCATION

SCALE: NTS

PROJECT SITE

SCALE: 1" = 100'

1

PROJECT CONTACTS

CLIENT
COUNTY OF SAN LUIS OBISPO
PARKS DIVISION
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA
CONTACT: SHAUN COOPER, SR. PLANNER
PHONE: 805-781-4388
FAX: 805-781-1102

CIVIL ENGINEERING
FALL CREEK ENGINEERING, INC.
P.O. BOX 7894
SANTA CRUZ, CA 95061
PHONE: 831-426-9054
FAX: 831-426-4932
CONTACT: PETER HAASE, P.E.
PRINCIPAL ENGINEER

GEOTECHNICAL ENGINEERING
FUGRO WEST, INC
660 CLARION COURT SUITE A
SAN LUIS OBISPO, CA 93401
PHONE: 805-542-0797
FAX: 805-542-9311
CONTACT: CHRISTOPHER LOVATO, G.E.
PROJECT ENGINEER

PROJECT REFERENCES

GEOTECHNICAL REPORT - CAVE LANDING BIKE PATH CAVE LANDING ROAD - BLUFF DRIVE, SAN LUIS OBISPO COUNTY, CALIFORNIA - PREPARED BY FUGRO WEST INC, DATED DECEMBER 21, 2009

PRELIMINARY DESIGN MEMORANDUM, CAVE LANDING PATH REVISED PRELIMINARY DESIGN - PREPARED BY AECOM, DATED MARCH 17, 2010

PROJECT GRADING QUANTITIES

MAIN TRAIL ALIGNMENT	
CUT VOLUME	505 CUBIC YARDS
FILL VOLUME	345 CUBIC YARDS
NET VOLUME	160 CUBIC YARDS CUT
BEACH TRAIL ALIGNMENT	
CUT VOLUME	23 CUBIC YARDS
FILL VOLUME	8 CUBIC YARDS
NET VOLUME	15 CUBIC YARDS CUT
PARKING LOT	
CUT VOLUME	47 CUBIC YARDS
FILL VOLUME	497 CUBIC YARDS
NET VOLUME	450 CUBIC YARDS FILL

NOTES:
1. NO CUT OR FILL FACTORS HAVE BEEN ADDED TO THESE CALCULATIONS
2. GRADING QUANTITIES DO NOT INCLUDE EXISTING TRAIL TO BE RESTORED

LEGEND

(E)	EXISTING (ABBREVIATION)
(N)	NEW (ABBREVIATION)
	(E) CONTOUR
	PIRATES COVE LANDING COMPLEX (PCLC)

SHEET INDEX

0.0	COVER SHEET
1.0	SITE IMPROVEMENT PLAN
2.0	GRADING PLAN - MAIN TRAIL ALIGNMENT PLAN AND PROFILE
2.0.1	GRADING PLAN - MAIN TRAIL ALIGNMENT DETAILS
2.1	GRADING PLAN - BEACH TRAIL ALIGNMENT PLAN AND PROFILE
2.1.1	GRADING PLAN - BEACH TRAIL ALIGNMENT DETAILS
2.2	GRADING PLAN - PARKING AREA
3.0	EROSION CONTROL PLAN AND DETAILS
4.0	DRAINAGE PLAN AND DETAILS

PRELIMINARY DRAWINGS NOT FOR CONSTRUCTION

SHEET TITLE:
COVER SHEET
PRELIMINARY SITE IMPROVEMENT PLANS

CLIENT:
COUNTY OF SAN LUIS OBISPO
PARKS DIVISION
ATTN: SHAUN COOPER
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA

PROJECT TITLE:
CAVE LANDING
BIKE PATH IMPROVEMENTS
CAVE LANDING ROAD
SAN LUIS OBISPO, CALIFORNIA

FALL CREEK ENGINEERING, INC.
Consulting Engineers
Civil • Environmental • Water Resources
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TEL. (831) 426-9054 FAX (831) 426-4932

REGISTERED PROFESSIONAL ENGINEER
PETER H. HAASE
NO. 055605
EXP. 12/31/12
CIVIL
STATE OF CALIFORNIA

DRAWN BY:	RLC
CHECKED BY:	PHH
DATE:	MAY 2011
JOB NO:	21107
SCALE:	AS SHOWN
SHEET:	0.0

SITE IMPROVEMENT LAYOUT - PLAN VIEW

SCALE: 1" = 60'

1

PRELIMINARY DRAWINGS NOT FOR CONSTRUCTION

SHEET TITLE:
PRELIMINARY
SITE IMRPOVEMENT PLAN

CLIENT:
COUNTY OF SAN LUIS OBISPO
PARKS DIVISION
ATTN: SHAUN COOPER
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA

PROJECT TITLE:
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BIKE PATH IMPROVEMENTS
CAVE LANDING ROAD
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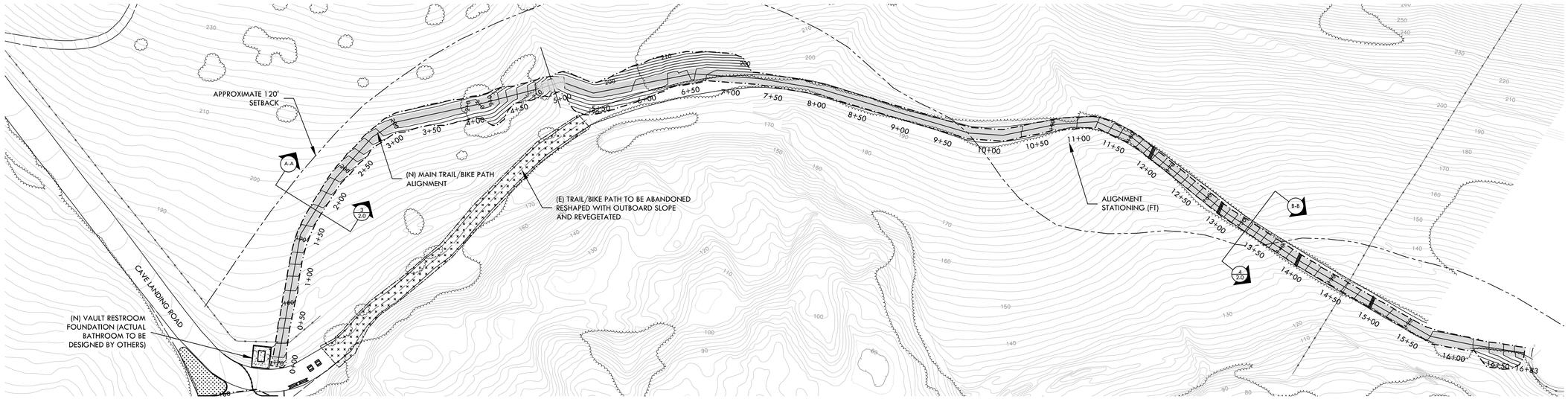
REGISTERED PROFESSIONAL ENGINEER PETER H. HAASE NO. 055605 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA

DRAWN BY:	RLC
CHECKED BY:	PHH
DATE:	MAY 2011
JOB NO:	21107
SCALE:	AS SHOWN
SHEET:	1.0

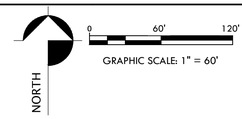
OF 7

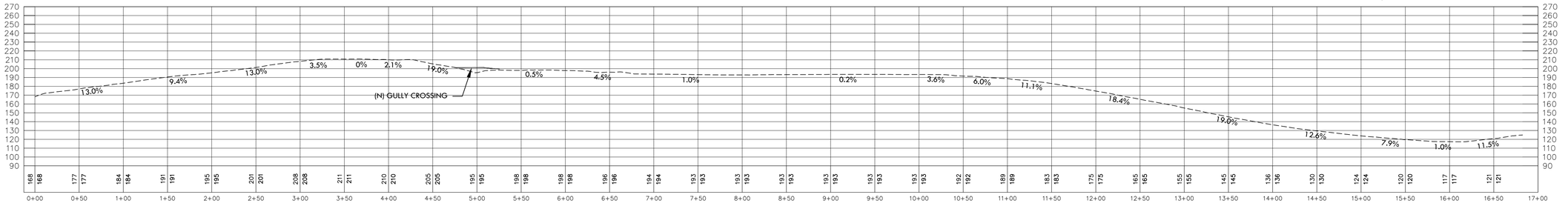


MAIN TRAIL/BIKE PATH ALIGNMENT - PLAN VIEW

SCALE: 1" = 60'

1

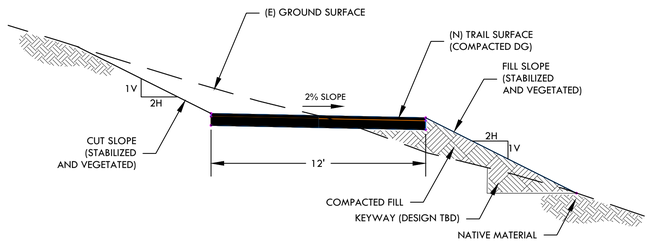




MAIN TRAIL/BIKE PATH ALIGNMENT - PROFILE VIEW

SCALE: 1" = 60'

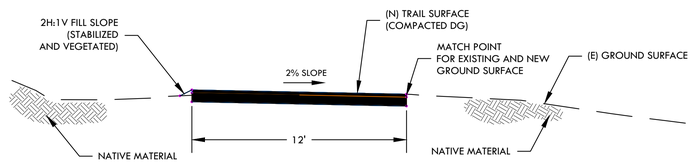
2



TYPICAL TRAIL SECTION A-A

SCALE: 1" = 4'

3



TYPICAL TRAIL SECTION B-B

SCALE: 1" = 4'

4

LEGEND

(E)	EXISTING (ABBREVIATION)
(N)	NEW (ABBREVIATION)
	(E) CONTOUR
	(N) CONTOUR
	LIMIT OF GRADING
	(N) TRAIL ALIGNMENT
	(E) TRAIL TO BE ABANDONED AND RESTORED
	(N) WATERBARS

PRELIMINARY DRAWINGS NOT FOR CONSTRUCTION

SHEET TITLE:
PRELIMINARY GRADING PLAN
MAIN TRAIL ALIGNMENT PLAN AND PROFILE

CLIENT:
COUNTY OF SAN LUIS OBISPO
PARKS DIVISION
ATTN: SHAUN COOPER
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA

PROJECT TITLE:
CAVE LANDING
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SAN LUIS OBISPO, CALIFORNIA

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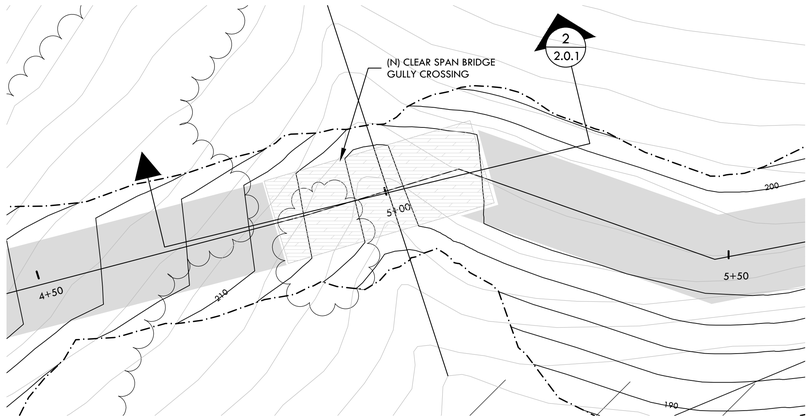
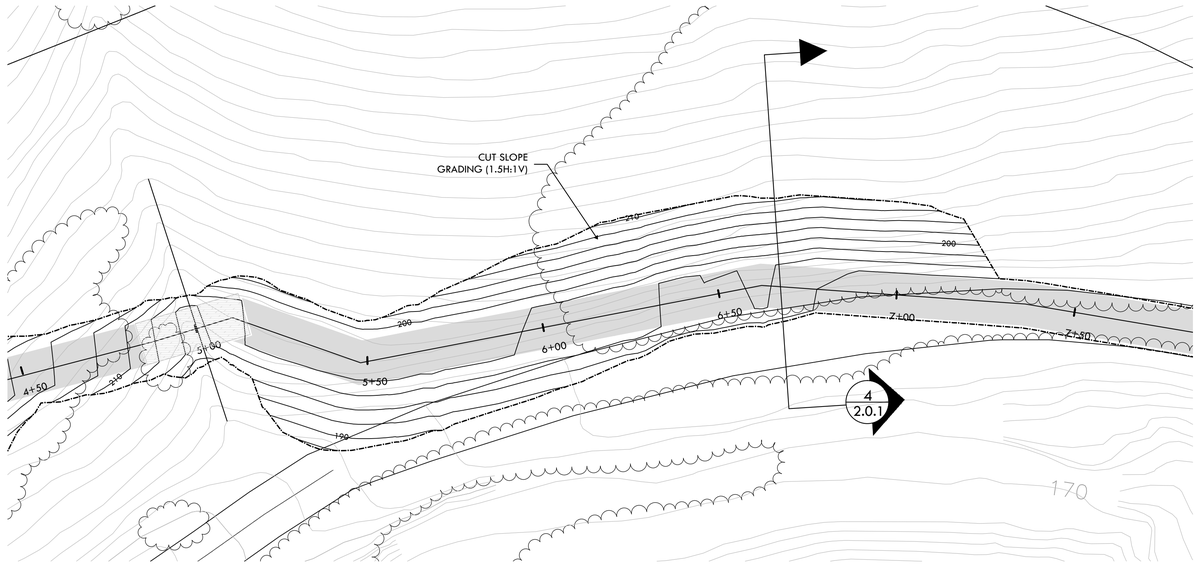
DRAWN BY:	RLC
CHECKED BY:	PHH
DATE:	MAY 2011
JOB NO:	21107
SCALE:	AS SHOWN
SHEET:	2.0 OF 7



TRAIL ALIGNMENT - GULLY CROSSING - PLAN VIEW

SCALE: 1" = 10'

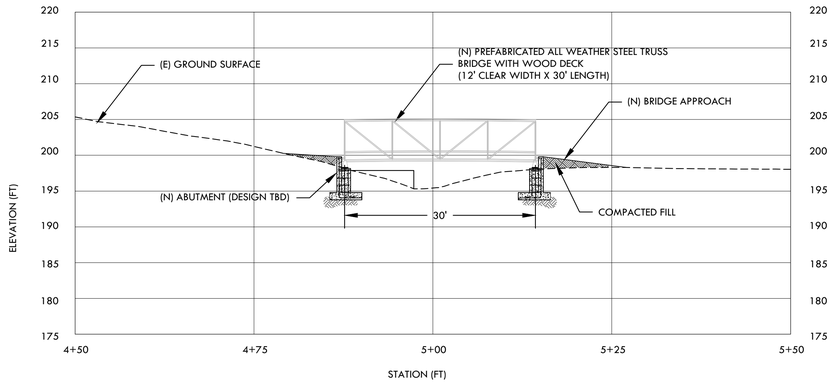
1



TRAIL ALIGNMENT - STATION 4+50 TO 7+50 - PLAN VIEW

SCALE: 1" = 20'

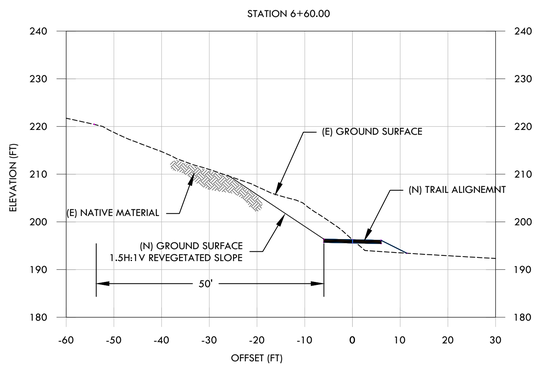
3



BRIDGE GULLY CROSSING TYPICAL SECTION

SCALE: 1" = 10'

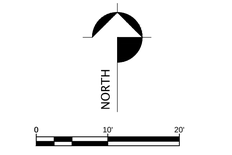
2



1.5H:1V GRADING STATION 5+50 TO 7+50 - TYPICAL SECTION

SCALE: 1" = 1.5'

4



GRAPHIC SCALE: 1" = 10'

LEGEND

(E)	EXISTING (ABBREVIATION)
(N)	NEW (ABBREVIATION)
	(E) CONTOUR
	(N) CONTOUR
	LIMIT OF GRADING
	(N) TRAIL ALIGNMENT
	FILL MATERIAL
	NATIVE MATERIAL

SHEET TITLE:
PRELIMINARY GRADING PLAN
MAIN TRAIL ALIGNMENT DETAILS

CLIENT:
COUNTY OF SAN LUIS OBISPO
PARKS DIVISION
ATTN: SHAUN COOPER
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA

PROJECT TITLE:
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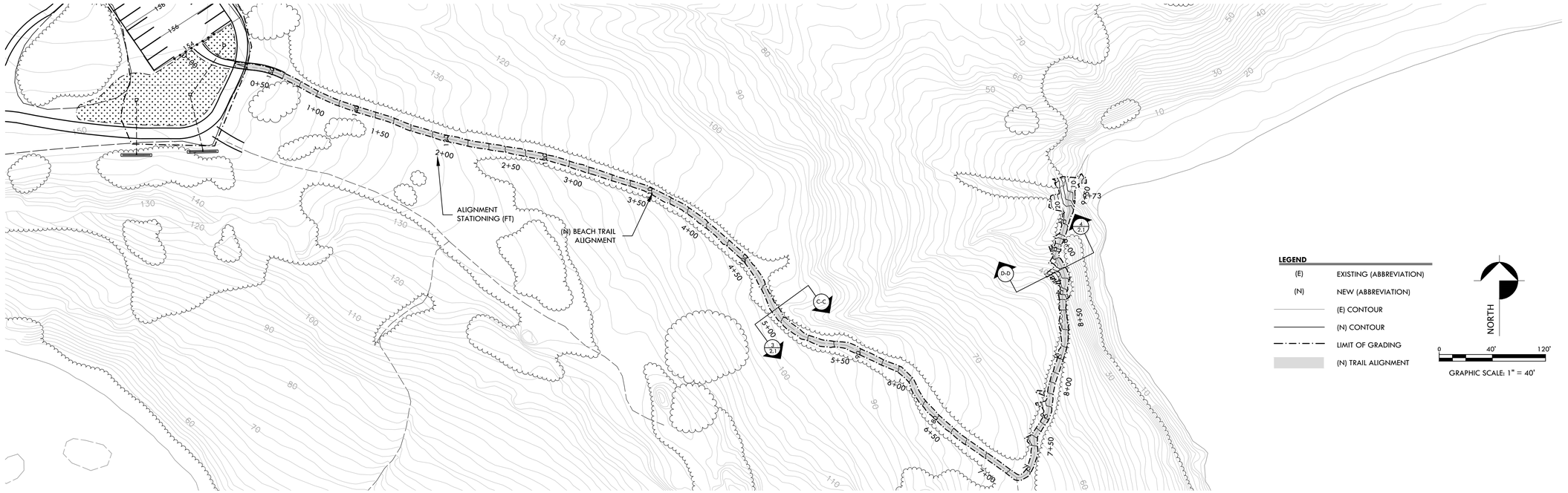
PETER H. HAASE
NO. 055605
EXP. 12/31/12
CIVIL
STATE OF CALIFORNIA

DRAWN BY:	RLC
CHECKED BY:	PHH
DATE:	MAY 2011
JOB NO:	21107
SCALE:	AS SHOWN
SHEET:	2.0.1
	OF 7

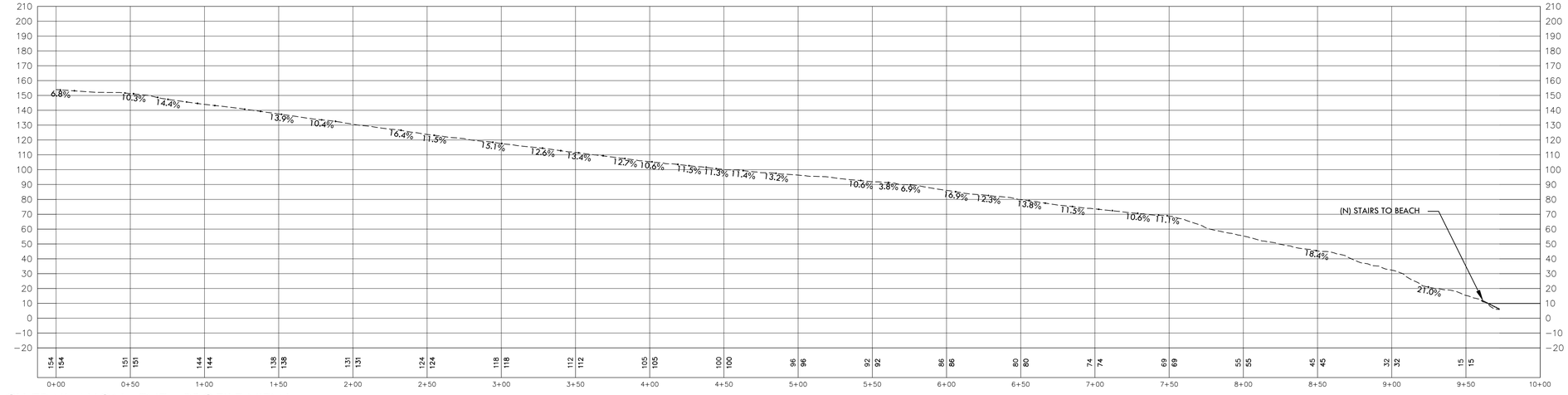
PRELIMINARY DRAWINGS NOT FOR CONSTRUCTION



BEACH TRAIL ALIGNMENT - PLAN VIEW

1

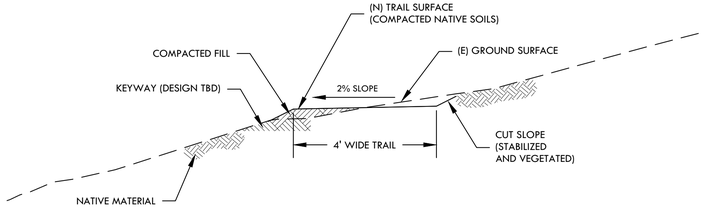
SCALE: 1" = 40'



BEACH TRAIL ALIGNMENT - PROFILE VIEW

2

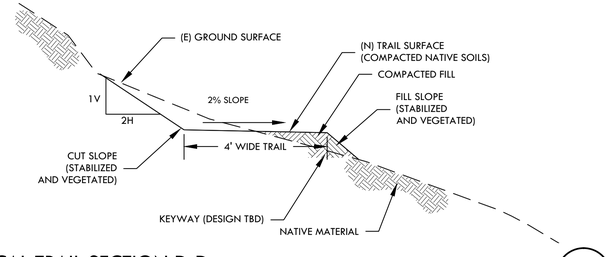
SCALE: 1" = 40'



TYPICAL TRAIL SECTION C-C

3

SCALE: 1" = 2'



TYPICAL TRAIL SECTION D-D

4

SCALE: 1" = 2'

PRELIMINARY DRAWINGS NOT FOR CONSTRUCTION

SHEET TITLE:
PRELIMINARY GRADING PLAN
BEACH TRAIL ALIGNMENT
PLAN AND PROFILE

CLIENT:
COUNTY OF SAN LUIS OBISPO
PARKS DIVISION
ATTN: SHAUN COOPER
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA

PROJECT TITLE:
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CAVE LANDING ROAD
SAN LUIS OBISPO, CALIFORNIA

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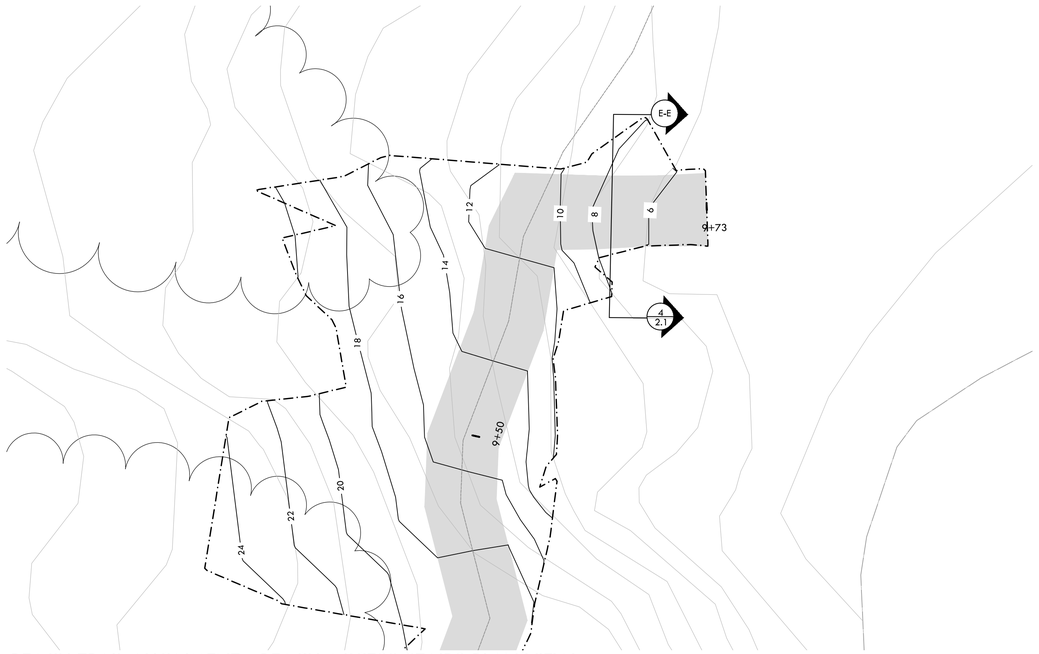
REGISTERED PROFESSIONAL ENGINEER PETER H. HEASE
NO. 055605
EXP. 12/31/12
CIVIL
STATE OF CALIFORNIA

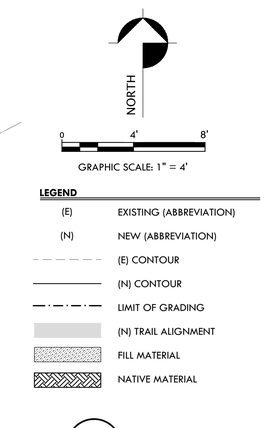
DRAWN BY:	RLC
CHECKED BY:	PHH
DATE:	MAY 2011
JOB NO:	21107
SCALE:	AS SHOWN
SHEET:	2.1 OF 7

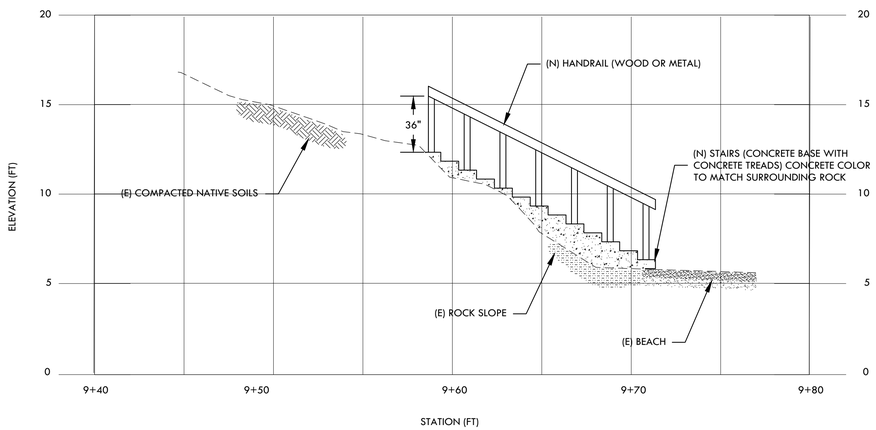


BEACH TRAIL ALIGNMENT - BEACH ACCESS STAIRS PLAN VIEW

SCALE: 1" = 4'

1

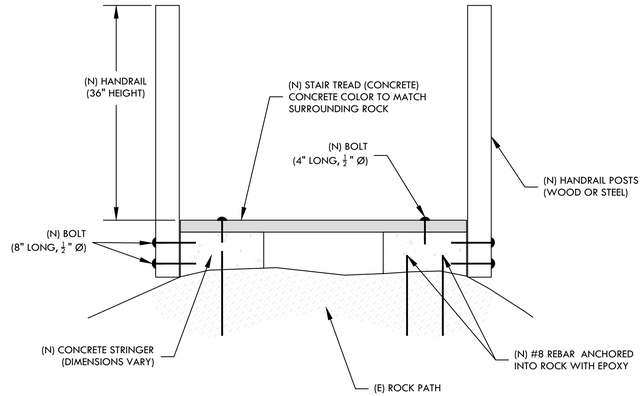




BEACH TRAIL ALIGNMENT - BEACH ACCESS STAIRS PROFILE

SCALE: 1" = 10'

2



BEACH ACCESS STAIRS TYPICAL SECTION

SCALE: 1" = 10'

3

PRELIMINARY DRAWINGS NOT FOR CONSTRUCTION

SHEET TITLE:
PRELIMINARY GRADING PLAN
BEACH TRAIL ALIGNMENT
DETAILS

CLIENT:
COUNTY OF SAN LUIS OBISPO
PARKS DIVISION
ATTN: SHAUN COOPER
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA

PROJECT TITLE:
CAVE LANDING
BIKE PATH IMPROVEMENTS
CAVE LANDING ROAD
SAN LUIS OBISPO, CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER
PETER H. HAASE
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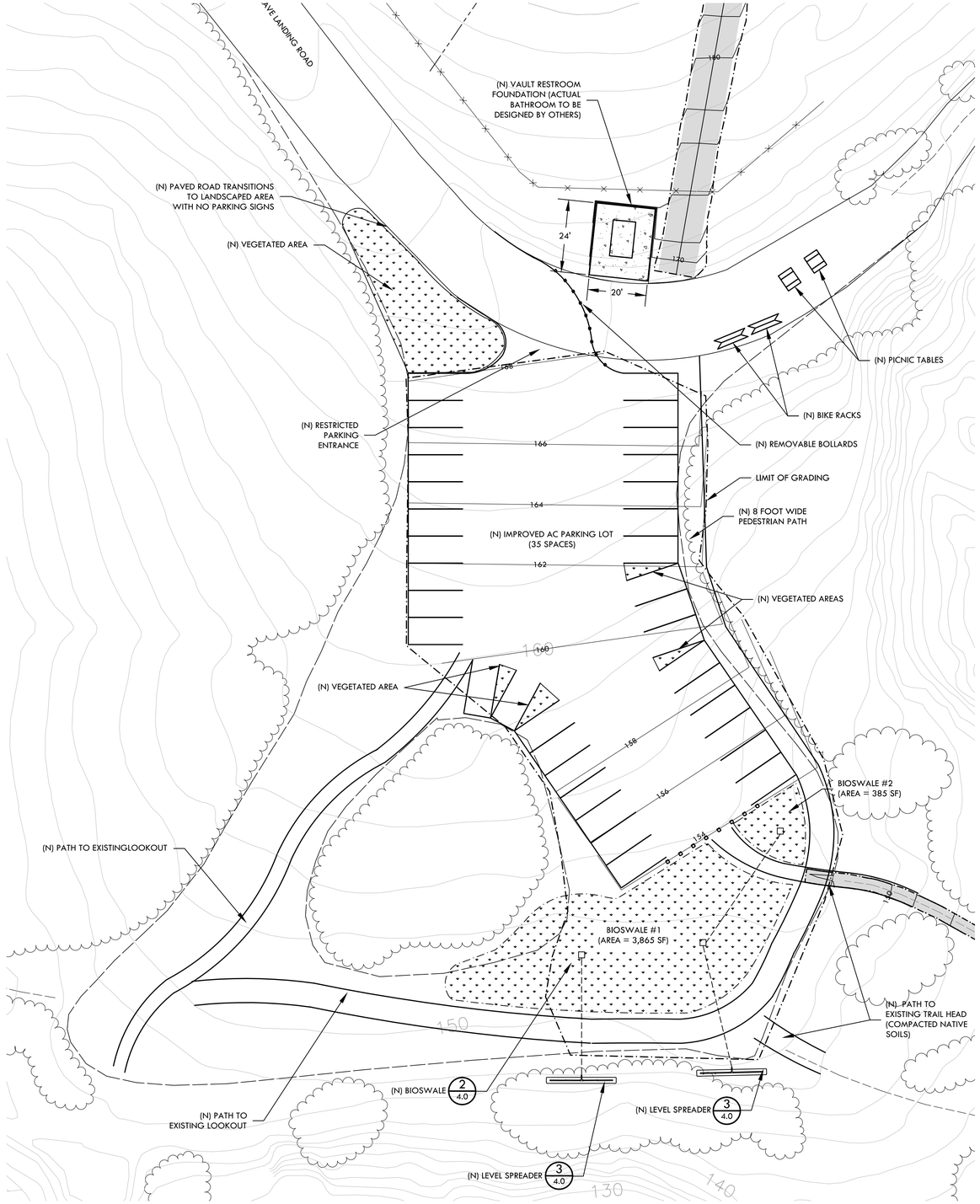
EXP. 12/31/12
CIVIL
STATE OF CALIFORNIA

DRAWN BY:	RLC
CHECKED BY:	PHH
DATE:	MAY 2011
JOB NO:	21107
SCALE:	AS SHOWN
SHEET:	2.1.1

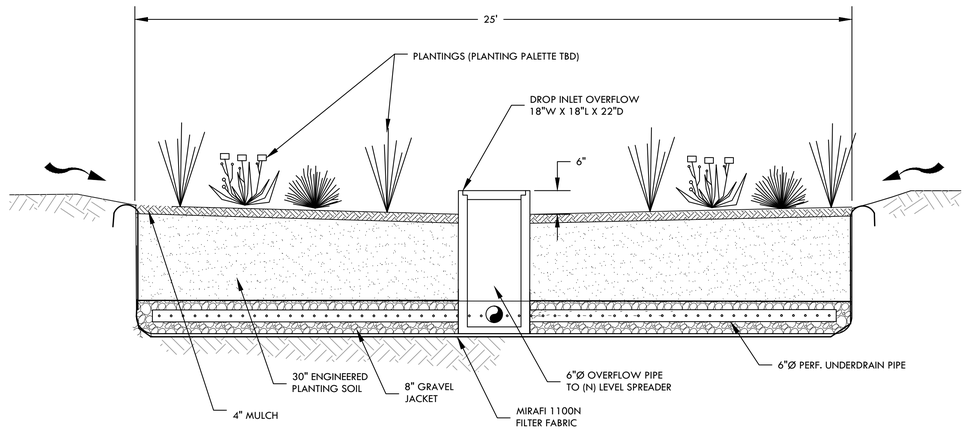
OF 7



PARKING LOT IMPROVEMENT PLAN

SCALE: 1" = 30'

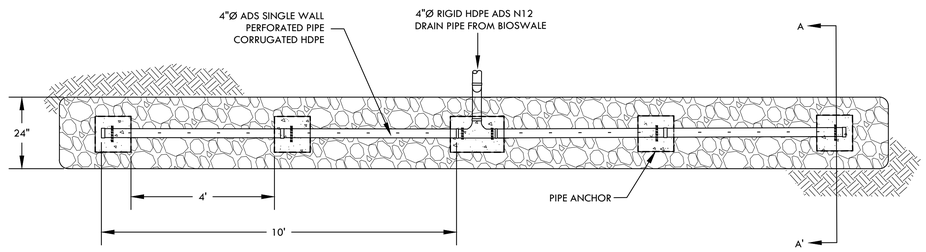
1



TYPICAL BIOSWALE CROSS SECTION

SCALE: 1" = 2'

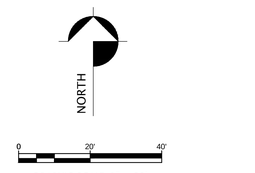
2



TYPICAL LEVEL SPREADER - PLAN VIEW

SCALE: 1" = 4'

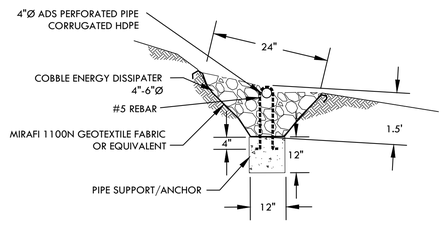
3



GRAPHIC SCALE: 1" = 20'

LEGEND

(E)	EXISTING (ABBREVIATION)
(N)	NEW (ABBREVIATION)
	(E) CONTOUR
	(N) CONTOUR
	LIMIT OF GRADING



TYPICAL LEVEL SPREADER - SECTION A-A

SCALE: 1" = 2'

4

PRELIMINARY DRAWINGS NOT FOR CONSTRUCTION

SHEET TITLE:
PRELIMINARY GRADING PLAN PARKING LAYOUT

CLIENT:
COUNTY OF SAN LUIS OBISPO
PARKS DIVISION
ATTN: SHAUN COOPER
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA

PROJECT TITLE:
CAVE LANDING
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REGISTERED PROFESSIONAL ENGINEER PETER H. HASLE NO. 055605 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA

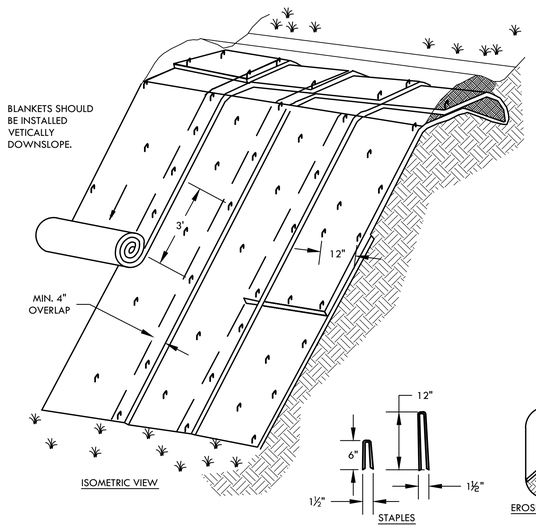
DRAWN BY:	RLC
CHECKED BY:	PHH
DATE:	MAY 2011
JOB NO:	21107
SCALE:	AS SHOWN
SHEET:	2.2

OF 7

PRELIMINARY EROSION CONTROL PLAN

SCALE: 1" = 80'

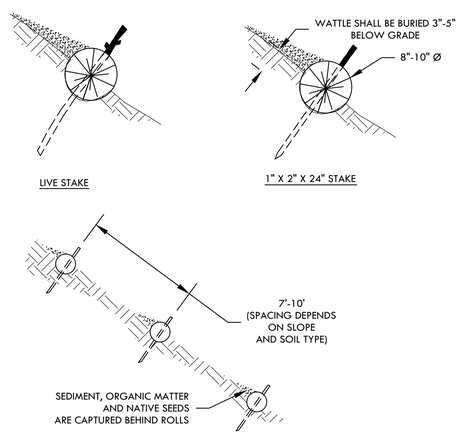
1



TYPICAL EROSION CONTROL BLANKET INSTALLATION

SCALE: AS DIMENSIONED

2



TYPICAL STRAW WATTLE INSTALLATION

SCALE: AS DIMENSIONED

3

PRELIMINARY DRAWINGS NOT FOR CONSTRUCTION

SHEET TITLE:
PRELIMINARY
EROSION CONTROL PLAN

CLIENT:
COUNTY OF SAN LUIS OBISPO
PARKS DIVISION
ATTN: SHAUN COOPER
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA

PROJECT TITLE:
CAVE LANDING
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CIVIL
STATE OF CALIFORNIA

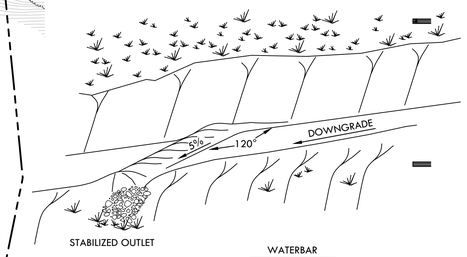
DRAWN BY:	RLC
CHECKED BY:	PHH
DATE:	MAY 2011
JOB NO:	21107
SCALE:	AS SHOWN
SHEET:	3.0

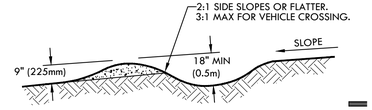
OF 7

PRELIMINARY DRAINAGE LAYOUT - PLAN VIEW

SCALE: 1" = 60'

1





SECTION

TYPICAL WATERBAR INSTALATION

SCALE: AS DIMENSIONED

2

GRAPHIC SCALE: 1" = 20'

LEGEND

(E)	EXISTING (ABBREVIATION)
(N)	NEW (ABBREVIATION)
	(E) CONTOUR
	(N) CONTOUR
	LIMIT OF GRADING
	(N) WATERBAR

SHEET TITLE:
PRELIMINARY DRAINAGE PLAN

CLIENT:
COUNTY OF SAN LUIS OBISPO
PARKS DIVISION
ATTN: SHAUN COOPER
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA

PROJECT TITLE:
CAVE LANDING
BIKE PATH IMPROVEMENTS
CAVE LANDING ROAD
SAN LUIS OBISPO, CALIFORNIA

FALL CREEK ENGINEERING, INC.
Consulting Engineers
Civil • Environmental • Water Resources
P.O. BOX 7894, SANTA CRUZ, CA 95061
TEL. (831) 426-9054 FAX (831) 426-4932

REGISTERED PROFESSIONAL ENGINEER PETER H. HAASE CIVIL STATE OF CALIFORNIA
NO. 055605
EXP. 12/31/12

DRAWN BY:	RLC
CHECKED BY:	PHH
DATE:	MAY 2011
JOB NO:	21107
SCALE:	AS SHOWN
SHEET:	4.0
	OF 7

PRELIMINARY DRAWINGS NOT FOR CONSTRUCTION