



NOTES

THE CONTRACTOR SHALL HAVE A CLASS "A" LICENSE FOR THIS PROJECT.

REFERENCE TO CALTRANS STANDARD PLANS DATED JULY 2018.

(SEE APPLICABLE STANDARD PLAN LIST IN SPECIAL PROVISIONS, STANDARD SPECIFICATIONS, AND LATEST REVISED 2018 STANDARD SPECIFICATIONS)

DESIGN DESIGNATION

EAST BRANCH ROAD ADT = 113

V = 25MPH

GEOTECH REPORTS

2020 CRAWFORD AND ASSOCIATES: EAST BRANCH ROAD PM 0.36 2020 CRAWFORD AND ASSOCIATES: OAKCREST DRIVE PM 0.10 2020 CRAWFORD AND ASSOCIATES: MOSSWOOD LANE PM 0.15





COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC

PROJECT PLANS FOR CONSTRUCTION OF STORM DAMAGE REPAIR TO EAST BRANCH ROAD [6B175] AT PM 0.36, OAKCREST DRIVE (6B185) AT PM 0.10 & MOSSWOOD LANE [6B178] AT PM 0.15 FEMA 4301-DR-CA PW-652, 4308-DR-CA PW-794 AND 4308-DR-CA PW-1309 CONTRACT NO. 217516, 217518 & 217341







INDEX OF SHEETS

- COVER SHEET, SHEET INDEX, AND MAPS
- TRAFFIC CONTROL
- STAGING AND STOCKPILE AREAS AND QUANTITIES
- EAST BRANCH ROAD PM 0.36 4-12
- 13-22 OAKCREST DRIVE PM 0.10
- 23-27 MOSSWOOD LANE PM 0.15

RICE	CONSTRUCTED BY		RESIDENT ENGINEER	
	PROJECT COMPLETED	11	CONSTRUCTION COST \$	
	THOSECH COMPLETED	/ /		_



SIZE	REMARKS	POST SIZE	NUMBER
30" × 30"	VISIBLE AT ALL TIMES	4" × 4"	1
30" × 30" 20" × 7"	VISIBLE AT ALL TIMES	4 x 4	1
30" × 30" 30" × 15"	VISIBLE AT ALL TIMES LINE OF SIGHT	4 x 4	1
36" × 18"	VISIBLE AT ALL TIMES	4 x 4	1
24" × 36"	VISIBLE AT ALL TIMES	4 x 4	1
30" × 30"	VISIBLE AT ALL TIMES	4 x 4	1
30" × 30"	VISIBLE AT ALL TIMES	4 x 4	1
30" × 30"	VISIBLE AT ALL TIMES	4 x 4	1
48" × 30"	TYPE III BARRICADE		



	ROAD NAME:	EAST BRANCH ROAD, OAKO	REST DRIVE, AND MOSSWOOD LANE	DESIGN SECTION	COUNTY OF HUMBOLDT	SHEET
ONE INCH ON	ROAD NO:	68175, 68185, 68178	MILE POST: 0.36, 0.10, 0.15	ENGINEERING	DEPARTMENT OF PUBLIC WORKS	2
NAL DRAWING	PROJECT NO.: FEMA 4301-DR-CA PW#652, FEMA 4308-DR-CA PW#794, FEMA 4308-DR-CA PW#1309			DESIGNED BY: MMS, GHD	STORM DAMAGE REPAIR TO EAST BRANCH ROAD, OAKCREST DRIVE, AND MOSSWOOD LANE	
FONE INCH ON SHEET, ADJUST ACCORDINGLY	CONTRACT NO.: 217516, 217518, 217341			DRAWN BY: MMS, GHD		OF
	DRAWING FILE NAME: L:\2017 Storm Damage\217XXX East Branch Road PM 0.36\Design			REVIEWED BY: JAB	STAGING/STOCKPILE AREA AND QUANTITIES	
	PLOT DATE:	5/13/2020	REVISION DATE:	APPROVED BY: TRS	STAGING/STOCKTIEL AREA AND GOANTTIES	
ONE INCH ON HEET, ADJUST ACCORDINGLY	DRAWING FILE N PLOT DATE:	AME: L:\2017 Storm Damag 5/13/2020	e\217XXX East Branch Road PM 0.36\Design REVISION DATE:	REVIEWED BY: JAB APPROVED BY: TRS	STAGING/STOCKPILE AREA AND QUANTITIES	27

OAKCREST PROJECT AREA POTENTIAL ACCESS ROAD (TBD) OAKCREST DRIVE BENBOW DRIVE	
EAST BRANCH SOUTH FORK EEL RIVER	EAST BRANCH PROJECT AREA
EAST BRANCH RO EAST BLUE ROCK ROAD	MOSSWOOD PROJECT AREA
BENBOW INN W= 18' DUST PALLIATIVE	
	1) STOCKPILE SHALL HAVE STRAW WATTLES, HAY BALES, SILT
se a la l	2) STOCKPILE SHALL BE COVERED WITH PLASTIC WHEN NOT IN USE AND BE WEIGHTED DOWN WITH SANDBAGS OR EQUIVALENT (AS PER STANDARD PLAN T53)
EEL PILO	3) IF STOCKPILE AREA IS IN A TURNOUT- THE TURNOUT SHALL BE REESTABLISHED TO PRE-CONSTRUCTION CONDITIONS
TEP DEF	 IF TEMP. CULVERTS ARE INSTALLED IN THE DITCH LINE- DITCH LINE SHALL BE RECONSTRUCTED AT END OF PROJECT.
A A A A A A A A A A A A A A A A A A A	5) STOCKPILE LOCATIONS HAVE BEEN APPROVED BY PUBLIC WORKS AS DETAILED IN THE ENVIRONMENTAL REPORT.
······································	6) ALTERNATE STOCKPILE AND STAGING SITES SHALL BE PRE-APPROVED THROUGH PUBLIC WORKS WITH WRITTEN APPROVAL
SCALE: 1"~350'	7) ALL REMOVED DEBRIS MAY BE STOCKPILED TEMPORARILY AT THE APPROVED DEBRIS REMOVAL SITE ACCESSIBLE FROM BENBOW DRIVE SOUTH OF THE SITE UNTIL CONSTRUCTION IS COMPLETED. THIS STOCKPILE AREA IS OWNED BY BENBOW PROPERTIES INC. ALL DEBRIS MUST BE REMOVED AND RELOCATED TO A CERTIFIED DISPOSAL SITE.

ITEM NO.	ITEM CODE		ITEM DESCRIPTION	UNIT	E. BRANCH QUANTITY	OAKCREST QUANTITY	MOSSWOOD QUANTITY	TOTAL
1	120090		Construction Area Signs	EA	8	12	2	22
2	120100		Traffic Control System	LS	0.4	0.6	0.0	1
3	120202		Portable Signal System	LS	0	1	0	1
4	129000		Temporary Railing (Type K)	EA	21	36	0	57
5	130100		Job Site Management	LS	0.8	0.1	0.1	1
6	130150		Storm Water Pollution Prevention Plan Management	LS	0.4	0.4	0.2	1
7	130310		Rain Event Action Plan	EA	4	4	4	12
8	130320		Storm Water Sampling and Analysis	EA	5	5	5	15
9	130330		Storm Water Annual Report	EA	0.4	0.4	0.2	1
10	130610		Temporary Check Dam	LF	130	58	0	188
11	130620		Temporary Drainage Inlet Protection	EA	0	2	0	2
12	130680		Temporary Silt Fence	LF	410	260	0	670
13	170103		Clearing and Grubbing (LS)	LS	0.50	0.25	0.25	1
14	180106		Dust Palliative	LS	0.7	0.2	0.1	1
15	190101	F	Roadway Excavation	CY	7,430	2,022	40	9,492
16	192032	F	Structure Excavation (Rock Slope Protection)	CY	5,380	0	340	5,720
17	198050	F	Embankment	CY	8,600	1,233	54	9,887
18	198209		Subgrade Enhancement Geotextile, Class B2	SQYD	0	0	45	45
19	198250A		Geosynthetic Reinforcement (Primary Reinforcement)	SQYD	11,200	2,340	0	13,540
20	198250B		Geosynthetic Reinforcement (Secondary Reinforcement)	SQYD	3,700	180	0	3,880
21	210212		Dry Seed (SQFT)	SQFT	27,200	3,960	700	31,860
22	210280		Rolled Erosion Control Product (Blanket)	SQFT	27,200	3,960	700	31,860
23	210350		Fiber Rolls	LF	2,300	500	150	2,950
24	260203	F	Class 2 Aggregate Base (CY)	CY	370	0	21	391
25	260400	F	Aggregate Base (1.5" Minus Crushed Rock)	CY	0	120	0	120
26	390132		Hot Mix Asphalt (Type A)	TON	260	0	18	278
27	394073		Place Hot Mix Asphalt Dike (Type A)	LF	270	0	0	270
28	641107A		18" Plastic Pipe (Heat-Fused HDPE)	LF	0	217	0	217
29	641113A		24" Plastic Pipe (Heat-Fused HDPE)	LF	89	0	0	89
30	680902		6" Perofrated Plastic Pipe Underdrain	LF	400	150	60	610
31	680903		6" Non-Perforated Plastic Pipe Underdrain	LF	2	72	25	99
32	682043	F	Class 2 Permeable Material	CY	1,410	290	30	1,730
33	692309		24" Anchor Assembly	EA	1	0	0	1
34	692381		Concrete Anchor and Cable Assembly	EA	0	2	0	2
35	700638		36" Corrugated Steel Pipe Inlet (.079" Thick)	LF	8	13	0	21
36	710132		Remove Culvert (LF)	LF	67	230	0	297
37	720117A		Rock Slope Protection (2 T - 4 T, Method A)	CY	4,140	0	0	4,140
38	720118A		Rock Slope Protection (1 T - 2 T, Method A)	CY	0	0	200	200
39	723020		Rock Slope Protection (1 T, Class VIII, Method B)	CY	0	313	0	313
40	723050		Rock Slope Protection (1/4 T, Class V, Method B) (CY)	CY	622	0	40	662
41	723080		Rock Slope Protection (60 lb, Class II, Method B) (CY)	CY	0	41	0	41
42	723095		Rock Slope Protection (20 lb, Class I, Method B) (CY)	CY	316	0	20	336
43	723110		Rock Slope Protection (1/2 T, Class VII, Method B) (CY)	CY	910	0	60	970
44	729011		Rock Slope Protection Fabric (Class 8)	SQYD	0	760	150	910
45	729012		Rock Slope Protection Fabric (Class 10)	SQYD	2,100	0	0	2,100
46	750001	F	Miscellaneous Iron and Steel	LB	177	354	0	531
47	999990		Mobilization	LS	0.80	0.15	0.05	1

QUANTITIES



SURVEY NOTES:

1. The purpose of this survey is to determine topography for a storm damage repair site at Post Mile 0.36 of East Branch Road in Benbow, California. This survey work reflects conditions at the time of survey; field work commenced on May 23, 2018 and concluded August 10, 2018.

2. Coordinates for this survey are California Coordinate System of 1983 (CCS83) Zone 1, NAD 83 (2011), Epoch 2010.0 based on a static GPS Control Survey. The control point identified as NGS PID "LU2347" was held for horizontal positions shown hereon. The mapping angle is 1 degree 09 minutes 47"; rotate bearings hereon counterclockwise by this angle to obtain "True" or Geodetic Bearings. Grid distances shown should be divided by the Combined Scale factor of 0.99994463 to obtain ground distances. Mapping angle and grid scale factor are taken at control point number 56, a 12 inch spike set atop a mound on the west side of the intersection of Blue Rock Road and Meadow View Road. Elevations are NAVD 88 datum based on an elevation of 622.00 feet at the aforementioned NGS PID "LU2347" control point.

3. Contours and color digital orthophoto were obtained by aerial means by GeoTerra on May 29, 2018. LIDAR technology was utilized to determine ground elevations. Field verification of this data was performed in various areas including open hard surfaces, short grass, tall grass, tall brush, and taller tree covered areas. Of 40 shots shot by conventional survey methods 4 were found to be more than one foot different than DTM model created from LIDAR data (more than one foot is half of the two foot contour interval shown). No trees were located on this survey.

4. The only underground utility observed on this site is the storm drain shown. No other underground utility appurtenances such as water valves or vaults were observed. The overhead electric line shown includes overhead telephone lines; these are shown schematically hereon as several lines, both electric and communication, are strung on poles shown.

5. No deeded right of way for this portion of East Branch Road was found. The right of way shown is based on a combination of the County of Humboldt Improvement Plans for a previous repair on this site, County Project No. PW 1290 & PW 288, Contract No.'s 206204 & 206266 dated February 15, 2011 and a Record of Survey by the County of Humboldt recorded in Book 71 of Surveys pages 122 & 123. The County Improvement Plans shows an existing Prescriptive Right of Way which is shown hereon centered on the "L" line. See the County's Sheet 4 of 10 "Site Overview and Survey Coordinates" for L line Stations "PT= 1+06.35" to "PRC=16+01.68". The sidelines of the right of way shown are offset 25 feet each side of the "L" line. The County easement acquired in 2011 is shown by deed and data shown on the County Record of Survey. The right of way shown east of the PRC Station 16+01.68 is shown based on an alignment created hereon based on the existing pavement centerline. A 50 foot wide right of way was dedicated for that portion of East Branch Rd. north and east of the approximate $X_{\rm b}$ th line shown per 18 of Maps, pages 79-83. The alignment in that map does not match existing pavement in this location and was not used hereon. Per said Map the intention of the dedicated Road " A" was to follow existing road centerline.

EAST BRANCH ROAD PM 0.36 SURVEY CONTROL PLAN

SCALE: 1"=20'

CONTROL POINT TABLE							
Point Number	Easting	Northing	Point Elevation	Full Description			
56	6063934.6992'	1914076.7421'	901.19'	CP_SPIKE_BASE_PT			
57	6063215.3460'	1915260.4280'	436.82'	CP_MAG			
58	6063388.5130'	1915308.7560'	432.03'	CP_SPK			
59	6063649.7800'	1915547.9770'	376.42'	CP_SPK			
60	6063260.4490'	1915433.0180'	377.41'	CP_SPK			





























SECTION VIEWS

SCALE: 1"=20'





SURVEY CONTROL NOTES

- TOPOGRAPHIC AND RIGHT-OF-WAY SURVEY PREPARED BY POINTS WEST SURVEYING. FIELD WORK DATE: OCTOBER 3 THROUGH 8, 2018.
- THE PURPOSE OF THIS SURVEY IS TO DETERMINE TOPOGRAPHY FOR A STORM DAMAGE 2 SITE ON OAKCREST DRIVE POST MILE 0.10. THIS SURVEY REFLECTS CONDITIONS AT THE TIME OF SURVEY
- COORDINATES FOR THIS SURVEY ARE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83) ZONE 1, NAD 83 (2011), EPOCH 2010.0 BASED ON A STATIC GPS CONTROL 3. SURVEY. THE CONTROL POINT IDENTIFIED AS NGS PID "LU2347" WAS HELD FOR HORIZONTAL POSITIONS SHOWN HEREON. THE MAPPING ANGLE IS 1 DEGREE 09 MINUTES 47 SECONDS, ROTATE BEARINGS HEREON COUNTERCLOCKWISE BY THIS ANGLE TO OBTAIN "TRUE" OR GEODETIC BEARINGS. GRID DISTANCES HEREON SHOULD BE DIVIDED BY THE COMBINED SCALE FACTOR OF 0.99994463 TO OBTAIN GROUND DISTANCES. MAPPING ANGLE AND GRID SCALE FACTOR AT CONTROL POINT 56, A 12 INCH SPIKE SET ATOP A MOUND ON THE WEST SIDE OF THE INTERSECTION OF BLUE ROCK ROAD AND MEADOW VIEW ROAD
- ELEVATIONS ARE NAVD88 DATUM BASED ON AN ELEVATION OF 622.00 FEET AT THE AFOREMENTIONED NGS PID "LU2347" CONTROL POINT.
- OAKCREST DRIVE IS DESCRIBED IN A DEED RECORDED IN BOOK 241 OF DEEDS PAGE 307 5. AS A FORTY FOOT RIGHT OF WAY DEDICATED TO THE COUNTY IN 1939. THIS IS SHOWN WITH PHANTOM LINE TYPE HEREON. THIS OVERLAPS "LOT A" PER BOOK 11 OF MAPS, PAGE 52 AS SHOWN (DOES NOT COINCIDE WITH LOT A IN ALL LOCATIONS), PER BOOK 11 OF MAPS, PAGE 52 THE "MAP OF SUBDIVISION NO. 1 BENBOW COMPANY" (RECORDED 1925) LOT A AND B ARE SPECIFICALLY NOT DEDICATED TO THE PUBLIC.
- FOUND MONUMENT #'S 1501 AND 1502 WERE HELD AS A BASIS OF THE BOUNDARIES SHOWN. THESE MONUMENTS ARE SHOWN ON AN UNRECORDED SURVEY (R2). NO ORIGINAL MONUMENTS PER 11 MAPS 52 WERE FOUND. BOTH R1 AND R2 WERE SCALED BY 0.9999463 (SEE NOTE 2 ABOVE). R1 WAS ROTATED CLOCKWISE 1 DEGREE 03 MINUTES 10 SECONDS. R2 WAS ROTATED CLOCKWISE 1 DEGREE 14 MINUTES 10 SECONDS. TIES TO MONUMENTS 835 AND 1500 ARE SHOWN HEREON AND DO NOT MATCH POSITIONS SHOWN
- ONLY TREES 12 INCH AND LARGER WERE LOCATED; NUMEROUS OTHER TREES EXIST AND ARE NOT SHOWN. TREE LOCATIONS ARE APPROXIMATE AS TRUNKS GROW AT 7 VARYING ANGLES TO GROUND SURFACE.
- THE ONLY UTILITIES OBSERVED ON THIS SITE WERE STORM DRAINS AND OVERHEAD ELECTRIC AND TELEPHONE. NO PLANS FOR UNDERGROUND WERE FOUND. STORM DRAIN ROUTING IS NOT KNOWN IN ALL LOCATIONS; SOME ROUTING HEREON ARE SHOWN IN ASSUMED LOCATIONS. THE EXISTENCE OF OTHER UNDERGROUND UTILITIES, IF ANY, IS UNKNOWN
- UNDERGROUND UTILITIES ARE SHOWN BASED ON A COMBINATION OF VISIBLE PHYSICAL EVIDENCE AND RECORDS MADE AVAILABLE TO THE SURVEYOR. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER OAKCREST DRIVE DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATIONS INDICATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES

GENERAL NOTES

- CONTRACTOR MUST COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771 (b) 1. REGARDING REFERENCING, PRESERVING AND RECONSTRUCTING MONUMENTS, WHETHER OR NOT MONUMENTS ARE SHOWN IN THESE PLANS.
- IF SURVEY MONUMENT IS DAMAGED BY CONTRACTORS OPERATIONS. CONTRACTOR 2 SHALL REPLACE SURVEY MONUMENT AT CONTRACTORS EXPENSE.



RIGHT OF WAY



OAKCREST DRIVE CONSTRUCTION CENTERLINE GEOMETRY - CL ALIGNMENT							
Segment	Туре	Length	Radius	Direction	Start Station	End Station	
L1	LINE	128.18	-	N49° 28' 39.62"W	1+00.00	2+28.18	
 C1	CURVE	34.39	100.00		2+28.18	2+62.57	
L2	LINE	88.36	-	N29° 46' 20.33"W	2+62.57	3+50.93	

LOT 42

NAME: OAKCREST ROAL

6B185

NTRACT NO.: 217518

OT DATE: 05/12/2020

OJECT NO.: 4308-DR-CA PW#794

AWING FILE NAME: 11189790_04-G004-SURVEY CONTROL.dwg

MILE POST: 00.10

14

Sheet.

TCF

\$3+5

RIGHT OF WAY

D NO:

IMPLIED COMMON LAW DEDICATION

AR IS ONE INCH O

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

APN: 033-311-014

LANDS OF STATE OF CALIFORNIA 1242 OR 507

RIGHT OF WAY

RIGHT OF WAY

LOT 40

APN: 033-311-001

LANDS OF AQUARIAN

GHD

GHD Inc.

LOT 36

APN: 033-311-036

LANDS OF JOHNSON TRUST

DOC. 2016-04886

TCE

RIGHT OF WAY -

LOT 41

APN: 033-311-012

LANDS OF PATTERSON DOC 2016-03087

TCF

STA:1+00.00 1:1915772.51

E:6061223.581

RIGHT OF WAY

718 Third Street

Eureka California 95501 USA T 1 707 443 8326 F 1 707 444 8330 W www.ghd.

LANDS OF AQUARIAN - HEYMANN DOC. 2014-18620-3



POINT TABLE						
EASTINGS	NORTHINGS	ELEVATION	DESCRIPTION			
6061224.78	1915962.66	512.05	CP_SPK			
6060993.50	1916034.46	498.72	CP_SPK			
6061146.36	1915810.32	458.41	CP_SPK			
6061061.91	1915924.80	481.49	CP_SPK			
6061101.37	1915861.14	466.00	CP_SPK			
6061180.77	1916114.33	550.67	CP_SPK			
	EASTINGS 6061224.78 6060993.50 6061146.36 6061061.91 6061101.37 6061180.77	POINT TAB EASTINGS NORTHINGS 6061224.78 1915962.66 6060993.50 1916034.46 6061146.36 1915810.32 6061061.91 1915924.80 6061101.37 1915861.14 6061180.77 1916114.33	POINT TABLE EASTINGS NORTHINGS ELEVATION 6061224.78 1915962.66 512.05 6060993.50 1916034.46 498.72 6061146.36 1915810.32 458.41 6061061.91 1915924.80 481.49 6061101.37 1915861.14 466.00 6061180.77 1916114.33 550.67			







		ROADW	AY GEOMETR	Y	
STATION	LEFT TRAVEL LANE CROSS SLOPE	LEFT EDGE ELEVATION	CROWN ELEVATION	RIGHT EDGE ELEVATION	RIGHT TRAVEL LANE CROSS SLOPE
1+25	-3.10%	456.42	456.65	456.43	-2.90%
1+40	-2.23%	457.38	457.55	457.40	-2.00%
1+44	-2.00%	457.64	457.79	457.64	-2.00%
2+70	-2.00%	472.79	472.94	472.79	-2.00%
2+93	-2.00%	477.28	477.43	477.18	-3.38%
3+35	-4.50%	483.34	483.68	483.24	-5.90%

ROADWAY ELEVATIONS







	DESIGN SECTION ENGINEERING	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET
	DESIGNED BY: C.PROVO	STORM DAMAGE REPAIR OAKCREST DRIVE PM 0.10	
	DRAWN BY: C.PROVO		OF
.dwg	REVIEWED BY: J.WOLF	ROADWAY PROFILE & SUPERELEVATION	27
	APPROVED BY: J.WOLF		Z/



DESIGN SECTION ENGINEERING	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET
DESIGNED BY: C.PROVO	STORM DAMAGE REPAIR OAKCREST DRIVE PM 0.10	10
DRAWN BY: C.PROVO		OF
REVIEWED BY: J.WOLF	DRAINAGE PROFILES	2
APPROVED BY: J.WOLF		Z /









	ROAD NAME: OAKCREST ROAD		DESIGN SECTION	COUNTY OF HUMBOLDT	
BAR IS ONE INCH ON	ROAD NO: 6B185	MILE POST: 00.10	ENGINEERING	DEPARTMENT OF PUBLIC WORKS	21
ORIGINAL DRAWING	PROJECT NO .: 4308-DR-CA PW#794		DESIGNED BY: C.PROVO	STORM DAMAGE REPAIR OAKCREST DRIVE PM 0.10	יבן
	CONTRACT NO.: 217518		DRAWN BY: C.PROVO		
IF NOT ONE INCH ON THIS SHEET, ADJUST	DRAWING FILE NAME: 11189790_10-C102-DESIGN SECTIONS - ALT 2.dwg		REVIEWED BY: J.WOLF	CROSS SECTIONS 1 OF 2	
SCALES ACCORDINGLY	PLOT DATE: 05/12/2020	Sheet: 21	APPROVED BY: J.WOLF		







SECTION - STA 1+30

SECTION - STA 1+50

SECTION - STA 1+70





SECTION - STA 2+30



SECTION - STA 2+50



SECTION - STA 1+90



SECTION - STA 2+70



GHD Inc.	GHD			
718 Third Street				
Eureka California 95501 USA				
T 1 707 443 8326 F 1 707 444	8330 W www.ghd.com			

	ROAD NAME: OAKCREST ROAD		DESIGN SECTION	COUNTY OF HUMBOLDT	
BAR IS ONE INCH ON	ROAD NO: 6B185	MILE POST: 00.10	ENGINEERING	DEPARTMENT OF PUBLIC WORKS	22
ORIGINAL DRAMING	PROJECT NO.: 4308-DR-CA PW#794		DESIGNED BY: C.PROVO	STORM DAMAGE REPAIR OAKCREST DRIVE PM 0.10	
	CONTRACT NO.: 217518		DRAWN BY: C.PROVO	CROSS SECTIONS - 2 OF 2	
IF NOT ONE INCH ON THIS SHEET, ADJUST	DRAWING FILE NAME: 11189790_10-C102-DESIGN SECTIONS 2.dwg		REVIEWED BY: J.WOLF		
SCALES ACCORDINGLY	PLOT DATE: 05/12/2020	Sheet: 22	APPROVED BY: J.WOLF		







SECTION - STA 2+90

SECTION - STA 3+10

SECTION - STA 3+30



SCALE: 1"=30'

SURVEY NOTES:

- The purpose of this survey is to determine topography for a storm damage repair site at PM 1. 0.15 of Mosswood Lone, Benbow, CA. This survey reflects conditions on the site at time of survey; field work performed April 8 through April 15.
- Coordinates for this survey are based on a County of Humboldt survey for East Branch PM 0.36, Project No. 217516, dated August 2018. We held NGS PID# "LU2347" for the basis of coordinates and elevations on that survey and hereon. Said NGS PUM to the Dosts of cool and elevations on that survey and hereon. Said NGS survey control is California Coordinate System of 1983 (CCS83) Zone 1, NAD83 (Epoch 2010.0) in US Survey Feet. The mapping angle is 1 degree 09 minutes 47 seconds- rotate bearings counterclockwise by this angle to obtain "True" or Geodetic bearings. Grid distances shown should be divided by the Combined Scale Factor of 0.99994463 to obtain ground distances. Elevations are also from said NGS survey control and are an NAVD88 Datum. are on NAVD88 Datum.
- 3. Tract Map No. 68, Benbow Estates Unit No. 3, recorded in Book 15 of Maps pages 39-46 was scaled to grid based on Combined Scale factor noted above. Bearings on said Benbow Estates Unit 3 were rotated clockwise 1 degree 23 minutes 17 seconds between the found street monuments No.'s 110 and 113, holding No. 110. Record distance and bearing between these monuments per Tract Map No. 68 is N 5 '05' 43" E 307.88; we measured N 6 '29'00" E 308.10' (grid) based on control noted in Note 3 above. Monuments in this subdivision are notorious for not to matching record locations. We held two closest monuments, noted above, and show other monument locations we recovered in control point table by coordinate only- their locations don't match centerline as shown graphically. No attempt to reconcile the found monuments locations with record data was made- lot locations are shown based on held points noted above. See symbols hereon for status of monuments in this vicinity. Twenty foot wide Easements for Slope Maintenance of cut/ fill slopes and Five foot wide Utility and Drainage Easements were dedicated on said Tract Map- see Note on Sheet 2 of 8 thereon.

CONTROL POINTS					
Point #	Northing	Easting	Elevation	Description	
50	1913413.96	6062942.08	749.71	CP_MAG	
51	1914027.00	6063714.42	808.67	CP_MAG	
52	1913904.27	6063687.62	819.62	CP_MAG	
53	1914104.61	6063724.62	802.47	CP_MAG	
54	1914066.33	6063721.86	804.60	CP_MAG	
55	1914185.40	6063707.29	806.05	CP_SPK	
56	1914076.74	6063934.70	901.19	CP_SPK_BASE	
57	1914301.03	6063711.55	807.62	CP_MAG	
101	1913533.21	6063436.41	854.24	FD_2"BC_IN_MW_RCE13184_TD_X	
106	1913693.32	6063568.62	846.38	FD_2"BC_IN_MW_RCE13184_TD_X	
109	1913974.46	6063693.96	812.93	FD75IP_OPEN_LEANING_WLY	
110	1914016.97	6063711.74	808.71	FD_2"BRD_IN_WELL_RCE13184_TIEDX	
113	1914323.10	6063746.53	803.45	FD_RRSPK_SEE_PHOTO	
116	1914502.80	6063897.09	762.84	FD_2.5"BC_IN_MW_TD_X	
118 1914663.84 6063958.51 767.82 FD_2.5"BC_IN_N		FD_2.5"BC_IN_MW_RCE1784_TD_X			

DESIGN SECTION ENGINEERING DIVISION	COUNTY OF HUMBOLDT Department of Public Works		
DESIGNED BY: MMS	STORM DAMAGE REPAIR TO MOSSWOOD LANE PM 0.15	23	
DRAWN BY: MMS		OF	
REVIEWED BY: JAB	SURVEY CONTROL	07	
APPROVED BY: TRS		21	



DESIGN SECTION ENGINEERING DIVISION	COUNTY OF HUMBOLDT Department of Public Works	
DESIGNED BY: MMS	STORM DAMAGE REPAIR TO MOSSWOOD LANE PM 0.15	724
DRAWN BY: MMS		OF
REVIEWED BY: JAB	TYPICAL SECTIONS	107
APPROVED BY: TRS		21



Mosswood Lane PM 0.15 Alignment Geometry M —Line							
Length	Radius	Direction	Start Station	End Station	Delta angle		
60		S12°24'13"W	0+00.00'	0+60.00'			



