

# SCOPE OF WORK

PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND SUPERVISION AS REQUIRED TO REINFORCE EROSION PROTECTION AREAS THAT WERE CONSTRUCTED IN THE SUMMER/FALL OF 2016 AND HAVE EXPERIENCED

ISOLATE WORK AREA FROM FLOWING WATER.

THE RIPRAP ARMOR SURFACE AND SCOUR TOE SHALL CONSIST OF EVENLY GRADED STONES THAT ARE HARD, ANGULAR, AND HAVE NO MORE THAN 50% WEAR AT 500 REVOLUTIONS AS DETERMINED BY AASHTO T96. THE LEAST DIMENSION OF ANY PIECE OF STONE SHALL BE NOT LESS THAN ONE-FOURTH (1/4) ITS GREATEST DIMENSION. DO NOT USE ROUNDED

MEET THE FOLLOWING GRADATION FOR THE CLASS SPECIFIED. PERCENTS ARE BY TOTAL WEIGHT. WEIGHTS ARE FOR EACH STONE:

0-10% WEIGHING MORE THAN 1,400 POUNDS

15% OR MORE WEIGHING 200 POUNDS OR LESS

0-15% WEIGHING UP TO 25 POUNDS

SORT AND MEASURE THE STONES IN THE LOAD TO DETERMINE IF THE RIPRAP IS WITHIN SPECIFICATIONS. PROVIDE THE EQUIPMENT AND PERSONEL NEEDED TO ASSIST IN THIS SORTING.

PLACEMENT BY END DUMPING OF ROCK DOWN THE EMBANKMENT OR OTHER METHODS LIKELY TO CAUSE SEGREGATION WILL NOT BE PERMITTED. AREAS COMPOSED PRIMARILY OF EITHER THE LARGER OR SMALLER SIZES OF STONE WILL NOT BE ACCEPTED. WORK LOOSE PIECES OF RIPRAP TO

SURVEY CONTROL PROVIDED BY DOWL. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL SITE FEATURES. IF THE CONTRACTOR SHOULD ENCOUNTER CONDITIONS OTHER THAN THOSE SHOWN ON THE PLANS, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE.

### APPLICABLE STANDARDS AND SPECIFICATIONS

ALL FEDERAL, STATE, AND LOCAL CODES, REGULATIONS, AND STANDARDS, PLUS THE FOLLOWING LATEST VERSIONS ARE PART OF THESE PLANS AND SPECIFICATIONS.

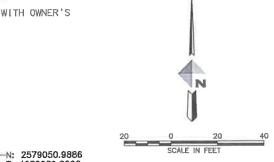
- . CITY OF VALDEZ STANDARD SPECIFICATIONS
- · ASTM, AASHTO STANDARDS AND SPECIFICATIONS
- STATE OF ALASKA 18 AAC 70 WATER QUALITY REGULATIONS

THE CONTRACTOR SHALL PROVIDE ENVIRONMENTAL PROTECTION AND TEMPORARY EROSION AND POLLUTION CONTROL AT ALL EXCAVATION INTRUSION OF SEDIMENT INTO THESE WATER BODIES.

ALL VEGETATION IN THE AREAS NOT AFFECTED BY WORK SHALL BE AREAS. PROTECT EXISTING TREES IN PLACE.

# CONSTRUCTION NOTES

· LOCATION OF REPAIR SHALL BE REVIEWED WITH OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.



# GENERAL NOTES

### DEWATERING

### RIPRAP

50% OR MORE WEIGHING 700 POUNDS OR MORE

PROVIDE A LEYEL COMPACT AREA LARGE ENOUGH TO DUMP AND SORT TYPICAL LOADS OF RIPRAP AT APPROVED LOCATIONS, DUMP LOADS SPECIFIED IN THIS AREA AND ASSIST THE ENGINEER AS NEEDED TO

THE ENGINEER MUST APPROVE OF THE EXCAVATION ELEVATIONS PRIOR TO PLACEMENT OF RIPRAP. LIMIT DROP HEIGHT TO 3 FEET OR LESS. MINIMIZE VOIDS AND OPTIMIZE INTERLOCKING WITHIN RIPRAP LAYER.

SITES. TEMPORARY STREAM DIVERSION MAY BE REQUIRED TO MINIMIZE

PROVISIONS SHALL BE MADE TO MINIMIZE THE INTRUSION OF SEDIMENT INTO THE LOCAL WATER BODIES.

PRESERVED AND PROTECTED BY THE CONTRACTOR. RESEED ALL DISTURBED

### CONSTRUCTION SAFETY

THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING OSHA EXCAVATION SAFETY STANDARDS, INCLUDING USING A TRENCH BOX AND/OR PROVIDING SHORING AND BRACING FOR CERTAIN EXCAVATION SITUATIONS.

BEGIN REVETMENT REPAIR-N: 2579074.2856

TAPER PROPOSED IMPROVEMENTS

INTO EXISTING REVETMENT

CONTRACTOR SHALL BE RÉSPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES AND STRUCTURES AND SHALL EXERCISE CAUTION DURING

COORDINATE CONSTRUCTION STAGING AND MOBILIZATION AREAS AND ACTIVITIES, INCLUDING DAILY WORK SCHEDULES, WITH OWNER'S

# SURVEY CONTROL NOTES

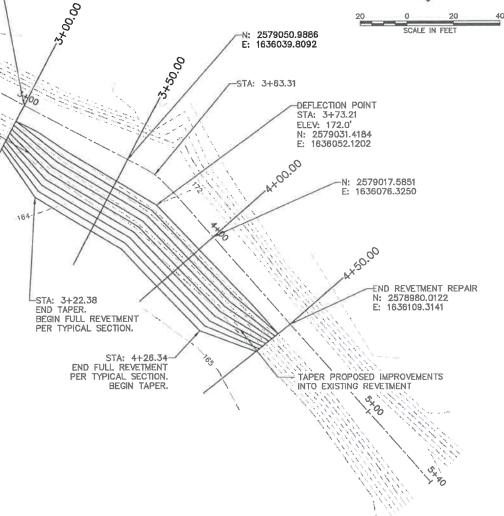
### HORIZONTAL CONTROL

COORDINATES ARE OPUS DB DERIVED NAD83(2011) ALASKA STATE PLANE ZONE 3 EXPRESSED IN US FEET AS DETERMINED AT STATION "LOWE-1".

### VERTICAL CONTROL

ELEVATIONS ARE NAVD88 AS DETERMINED BY OPUS DB UTILIZING GEOID 12B AT STATION "LOWE-1". A RTK TIE WAS MADE TO NGVD BENCHMARK "E11C 1964" AS LISTED ON THE FIRM MAP FOR THE CITY OF VALDEZ PANEL NUMBER 020094 0075 C AS REVISED DECEMBER 1, 1983. STATION "E11C 1964" HAS PROJECT ELEVATION OF 150.19 AND A NGVD ELEVATION OF 145.15 FEET.

- 1. THE INFORMATION SHOWN HEREON IS BASED ON A FIELD SURVEY PERFORMED BY DOWL ON OCTOBER 13, 2016. BACKGROUND INFORMATION DEPICTED IS SHOWN FOR ORIENTATION PURPOSES ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE
- 2. ALL DIMENSIONS AND COORDINATES SHOWN ARE IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
- 3. TITLE RESEARCH WAS NOT PERFORMED AS PART OF THIS SURVEY, A THOROUGH EXAMINATION OF LAND TITLE IS NEEDED TO ENSURE ALL EASEMENTS, RESTRICTIONS AND RIGHTS ARE DEPICTED.
- 4. PROJECT CONTROL COORDINATES SHOWN ON THIS SHEET WERE ESTABLISHED BY USING GPS METHODS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO WORK AROUND ALL MONUMENTS WITHOUT DISTURBING THE MONUMENT OR CASE.
- 6. VERTICAL CONTROL NEEDS TO BE VERIFIED BEFORE CONSTRUCTION



FOR SURVEY

INFORMATION ONLY

### SURVEY CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	ID
1	2582602.31	1626445.73	116.80	ALMON	LOWE-1
2	2597473.86	1598609.95	51.02	REBAR	IP-1
3	2598100.07	1594223.24	13.11	REBAR	IP-2
701	2582497.24	1626874.56	123.55	ALMON	RICH 7.4 2014
601	2582201.14	1633255.05	150.19	BCMON	PROP COR.



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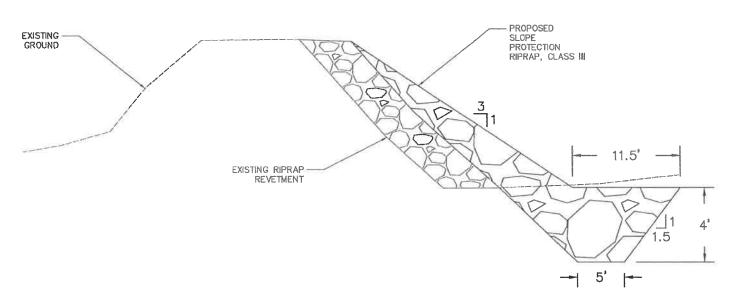
LOWE

	CHECKED BY	BMM
	DESIGNED BY	HCR
	DRAWN BY	HCR
	DATE	05/03/16
	W.O. NO.	62373
	F.B. NO.	
1	REF. DWG	
	LOCATION	VALDEZ
		ALASKA
1	SCAL	E

HORZ. VERT.

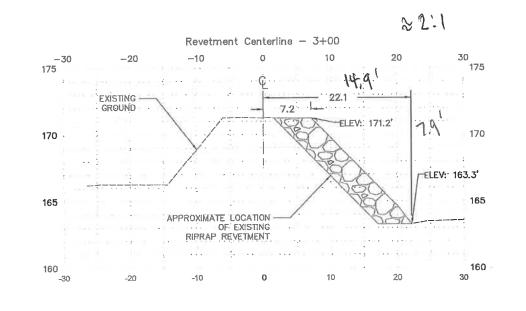
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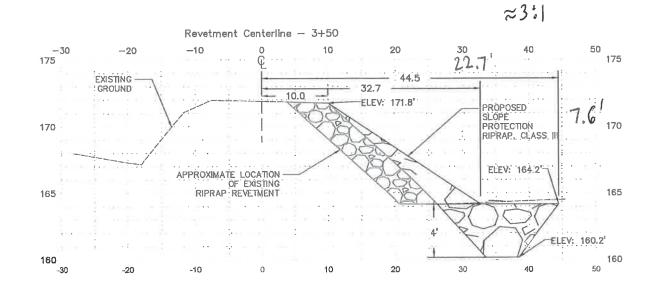
ESTIMATE OF QUANTITIES QUANTITY ITEM PAY UNIT LUMP SUM ALL REQUIRED MOBILIZATION AND DEMOBILIZATION ENVIRONMENTAL PROTECTION, SWPPP, PERMITTING LUMP SUM ALL REQUIRED DIVERSION LUMP SUM ALL REQUIRED LUMP SUM ALL REQUIRED CONSTRUCTION SURVEY LUMP SUM ALL REQUIRED AS-BUILT SURVEY CUBIC YARD RIPRAP, CLASS III

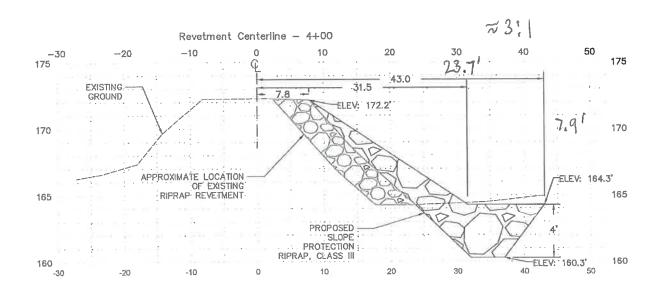


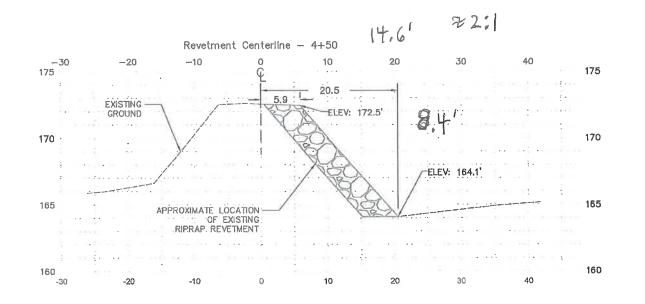
REVETMENT TYPICAL SECTION NTS













CITY OF VALDEZ  COWE RIVER SLOPE IMPROVEMENT  CROSS SECTIONS  ACL848  ACH848  ACH848									DESCRIPTION BY	5		
CITY OF VALDEZ RIVER SLOPE IMPROVEMENT CROSS SECTIONS	-								REV DATE	REVISION	Vertical Datum:	
CITY OF VALDEZ RIVER SLOPE IMPROVEMENT CROSS SECTIONS		San. Sewer	Storm Sawer	Woter	Gos	Telephone	Electric	Cable TV	Egsements	Footing Bev.	Approved	
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