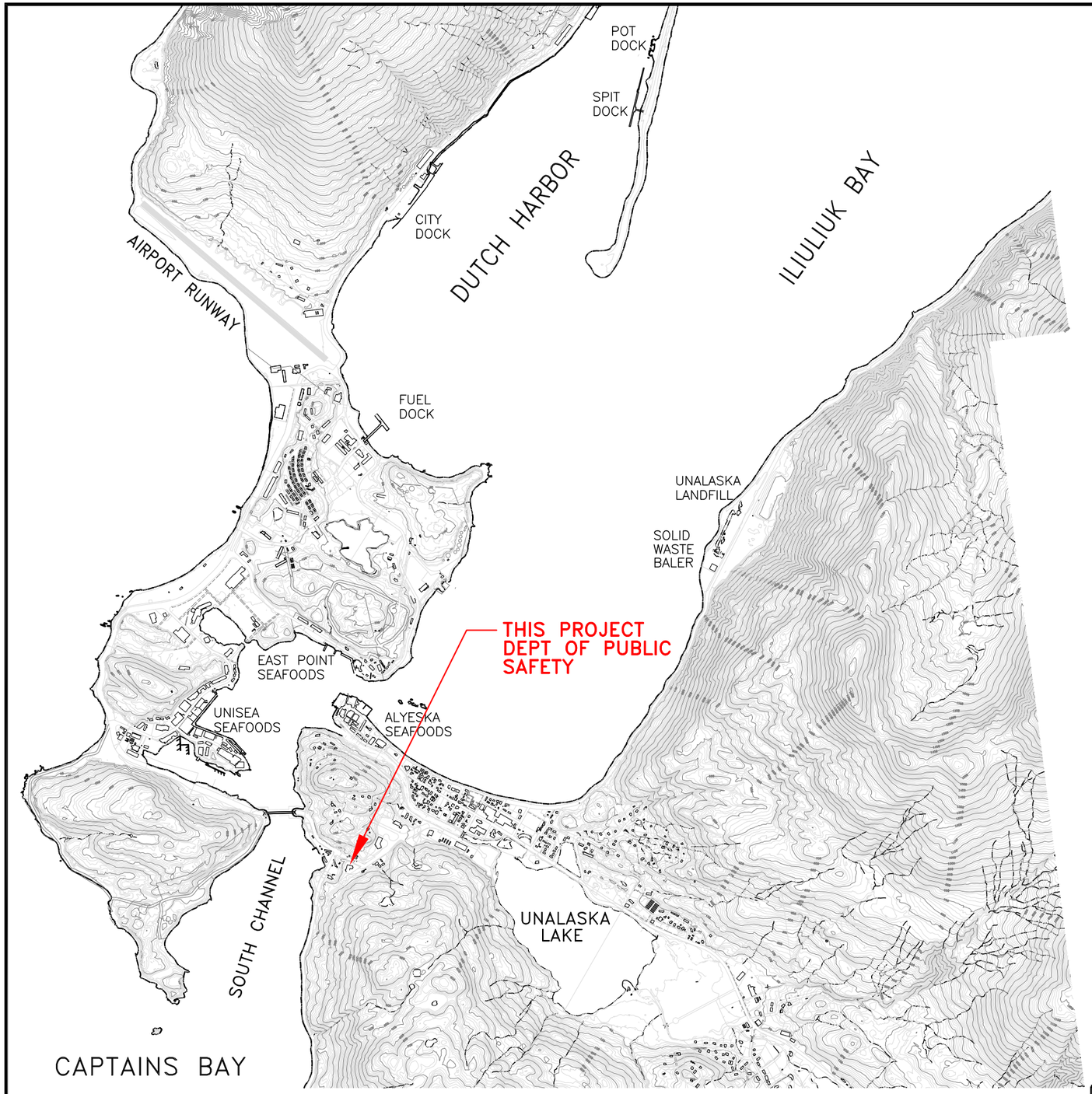


LOCATION MAP
SCALE (IN FEET)
0 1000 2000

CITY OF UNALASKA

PUBLIC SAFETY
PARKING LOT EXPANSION

SHEET INDEX

1 COVER SHEET
2 EXCAVATION PLAN VIEW
3 DRAINAGE PLAN
4 CROSS SECTIONS
5 QUANTITIES/SECTION
6 FENCE DETAILS
7 GUARDRAIL DETAILS

FOR BID
JANUARY 26, 2015

0" 1/4" 1/2" 3/4"
GRAPHIC SCALE

REV	DATE	DESCRIPTION
0	01/26/15	FOR BID

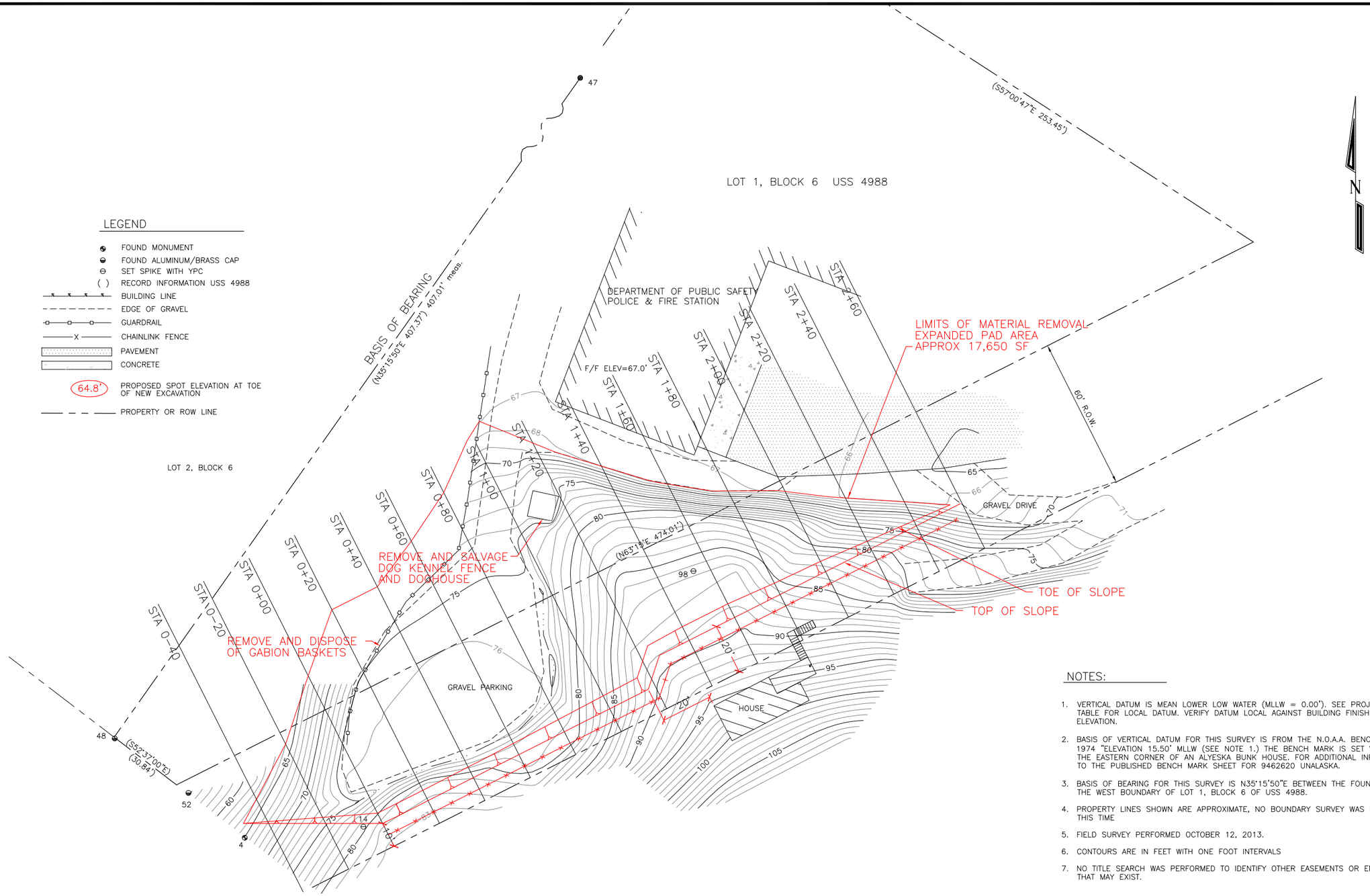
STATE OF ALASKA
49TH
THOMAS REGAN
CE-7125
01/26/15
REGISTERED PROFESSIONAL ENGINEER

REGAN ENGINEERING, P.C.

PROJECT:
CITY OF UNALASKA
PUBLIC SAFETY
PARKING LOT EXPANSION

TITLE:
COVER SHEET

DESIGNED BY:	TR	DATE:	01/26/15	SHEET NO:	1 OF 7
CHECKED BY:	TR	DPW PROJECT NO:	14103		



NOTES:

1. VERTICAL DATUM IS MEAN LOWER LOW WATER (MLLW = 0.00'). SEE PROJECT CONTROL TABLE FOR LOCAL DATUM. VERIFY DATUM LOCAL AGAINST BUILDING FINISH FLOOR ELEVATION.
2. BASIS OF VERTICAL DATUM FOR THIS SURVEY IS FROM THE N.O.A.A. BENCH MARK "No.20, 1974 "ELEVATION 15.50' MLLW (SEE NOTE 1.) THE BENCH MARK IS SET VERTICALLY IN THE EASTERN CORNER OF AN ALYESKA BUNK HOUSE. FOR ADDITIONAL INFORMATION REFER TO THE PUBLISHED BENCH MARK SHEET FOR 9462620 UNALASKA.
3. BASIS OF BEARING FOR THIS SURVEY IS N35°15'50"E BETWEEN THE FOUND CORNERS OF THE WEST BOUNDARY OF LOT 1, BLOCK 6 OF USS 4988.
4. PROPERTY LINES SHOWN ARE APPROXIMATE, NO BOUNDARY SURVEY WAS PERFORMED AT THIS TIME
5. FIELD SURVEY PERFORMED OCTOBER 12, 2013.
6. CONTOURS ARE IN FEET WITH ONE FOOT INTERVALS
7. NO TITLE SEARCH WAS PERFORMED TO IDENTIFY OTHER EASEMENTS OR ENCUMBRANCES THAT MAY EXIST.

FOR BID
JANUARY 26, 2015

PROJECT CONTROL

COORDINATE TABLE

PT#	NORTHING	EASTING	ELEVATION	DESCRIPTOR
14	11212.332	20387.029	79.61	SET SPIKE
47	11580.110	20524.246		FND REBAR
48	11247.786	20289.262		FND ALCAP
98	11312.795	20516.738	88.17	SET SPIKE

0" 1/4" 1/2" 3/4"
GRAPHIC SCALE

REV	DATE	DESCRIPTION
0	01/26/15	FOR BID

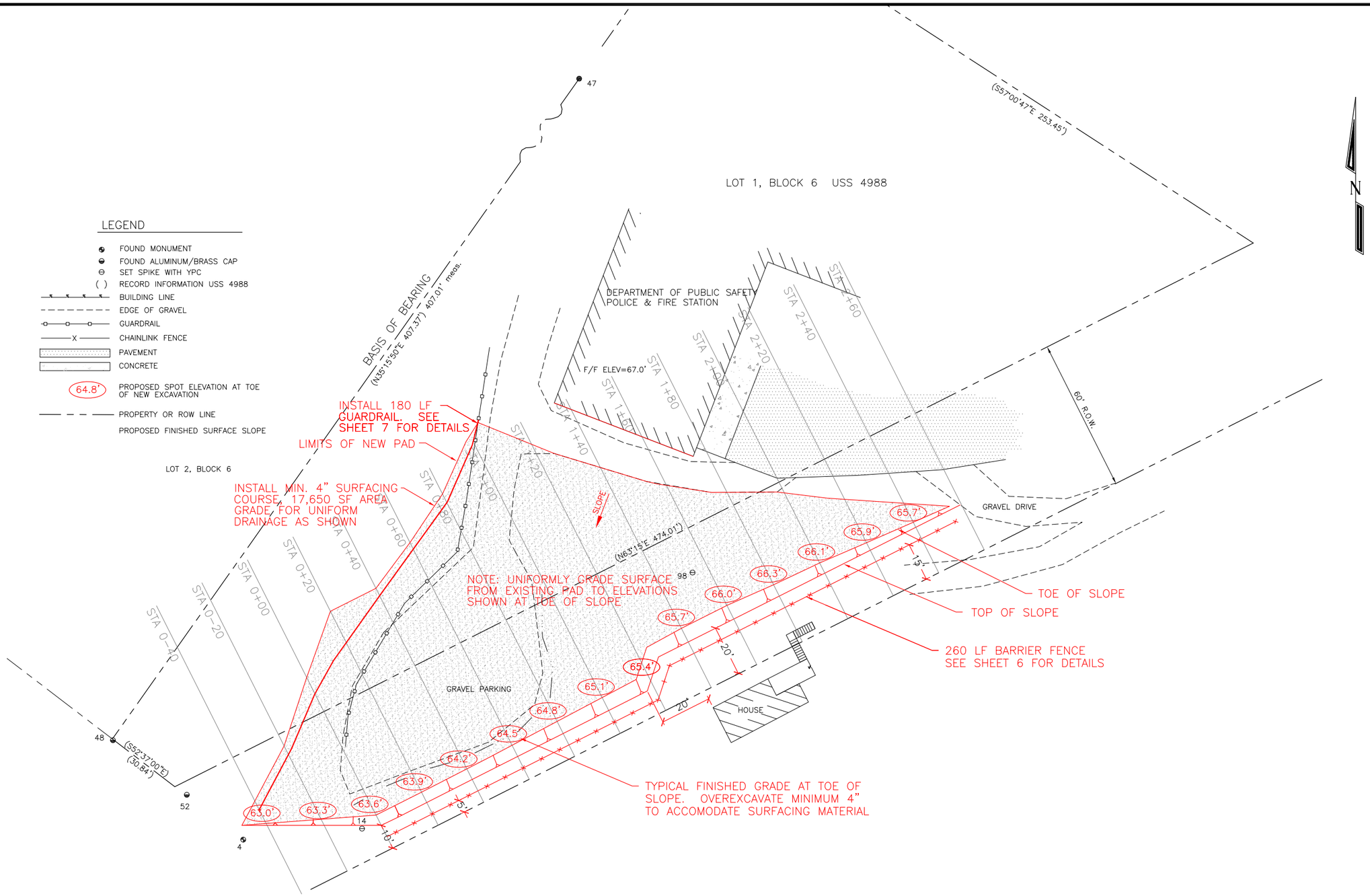
STATE OF ALASKA
49TH
THOMAS REGAN
CE-7125
01/26/15
REGISTERED PROFESSIONAL ENGINEER

REGAN ENGINEERING, P.C.

PROJECT:
CITY OF UNALASKA
PUBLIC SAFETY
PARKING LOT EXPANSION

TITLE:
EXCAVATION PLAN VIEW

DESIGNED BY:	TR	DATE:	01/26/15	SHEET NO:	2 OF 7
CHECKED BY:	TR	DPW PROJECT NO:	14103		



FOR BID

JANUARY 26, 2015

GRAPHIC SCALE 0" 1/4" 1/2" 3/4"

REV	DATE	DESCRIPTION
0	01/26/15	FOR BID

STATE OF ALASKA 49TH THOMAS REGAN CE-7125 01/26/15 REGISTERED PROFESSIONAL ENGINEER

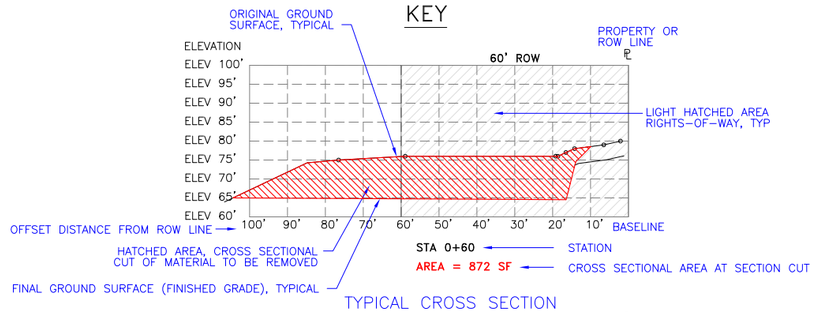
REGAN ENGINEERING, P.C.

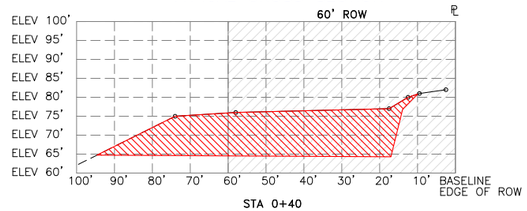
PROJECT: CITY OF UNALASKA
PUBLIC SAFETY
PARKING LOT EXPANSION

TITLE: **DRAINAGE PLAN**

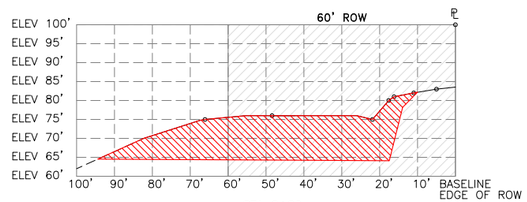
DESIGNED BY:	TR	DATE:	01/26/15	SHEET NO:	3 OF 7
CHECKED BY:	TR	DPW PROJECT NO:	14103		

EXCAVATION CROSS SECTIONS





STA 0+40
AREA = 805 SF



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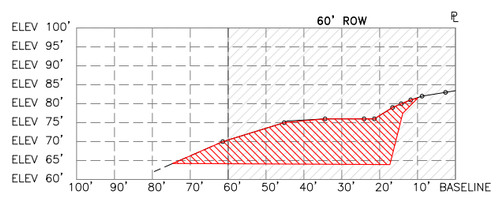

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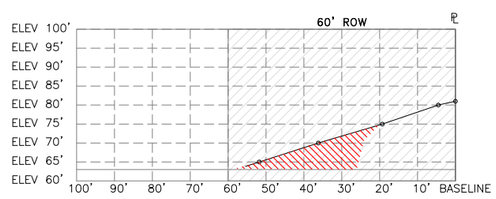

STA 0-20
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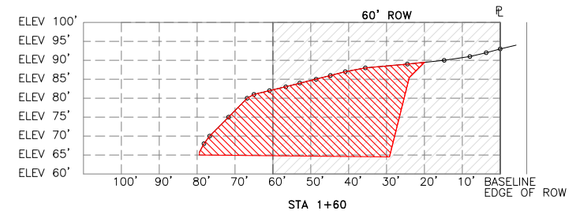

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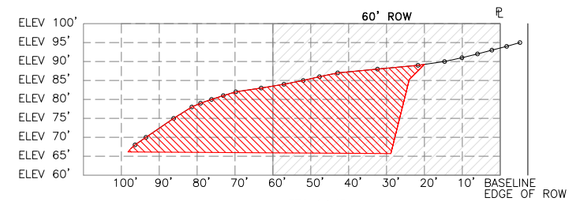

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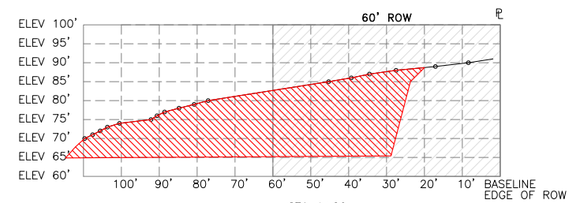

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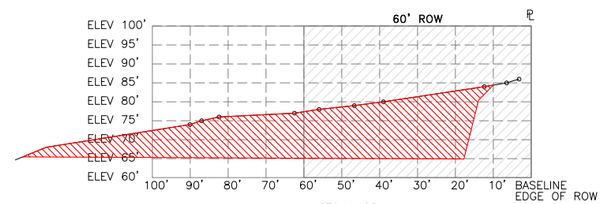

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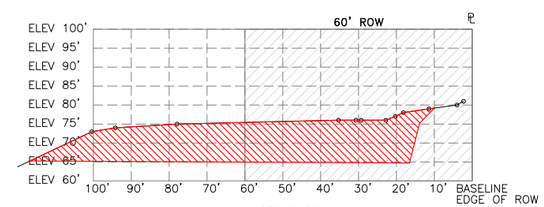

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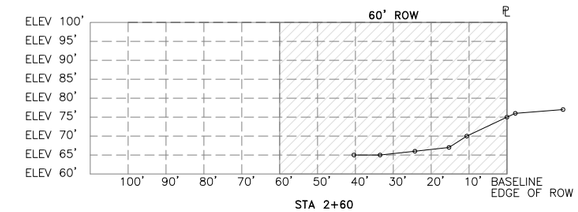
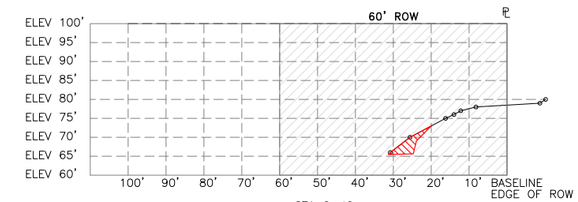


STA 2+60
AREA = 0 SF



STA 2+40
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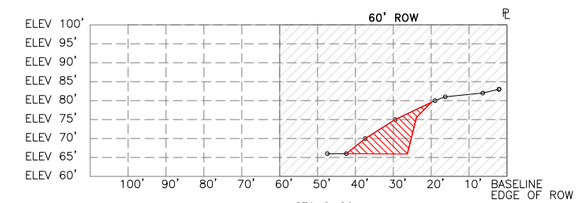

STA 2+20
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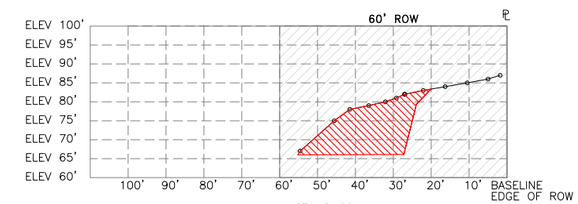

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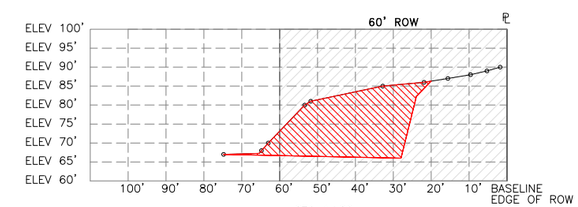


STA 1+80
AREA = 572 SF

FOR BID
JANUARY 26, 2015

0" 1/4" 1/2" 3/4"
GRAPHIC SCALE

REV	DATE	DESCRIPTION
0	01/26/15	FOR BID

STATE OF ALASKA
49TH
THOMAS REGAN
CE-7125
01/26/15
REGISTERED PROFESSIONAL ENGINEER

REGAN ENGINEERING, P.C.

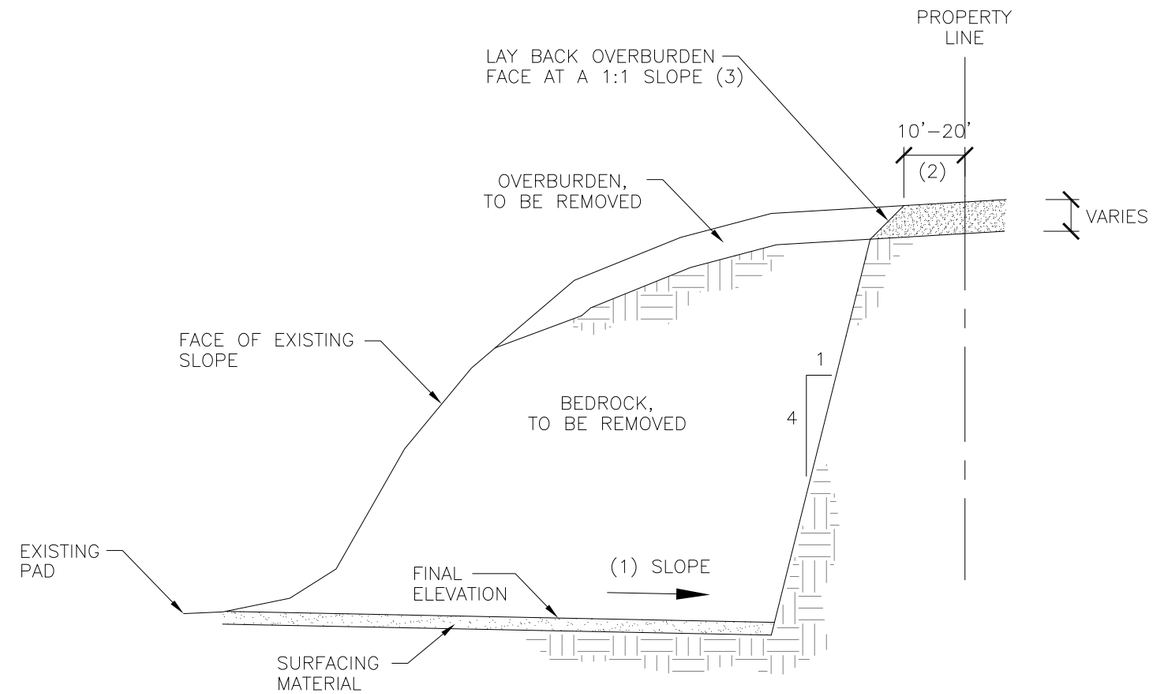
PROJECT:
CITY OF UNALASKA
PUBLIC SAFETY
PARKING LOT EXPANSION

TITLE:
CROSS SECTIONS

DESIGNED BY:	TR	DATE:	01/26/15	SHEET NO:	4 OF 7
CHECKED BY:	TR	DPW PROJECT NO:	14103		

STATION	CROSS SECTIONAL AREA (SF)	AVERAGE AREA (SF)	DISTANCE	VOLUME (CF)	VOLUME (CY)
0-49	0				
		12.5	9	113	4.2
0-40	25				
		101.0	20	2020	74.8
0-20	177				
		368.5	20	7370	273.0
0+00	560				
		669.0	20	13380	495.6
0+20	778				
		791.5	20	15830	586.3
0+40	805				
		838.5	20	16770	621.1
0+60	872				
		919.5	20	18390	681.1
0+80	967				
		1104.5	20	22090	818.1
1+00	1242				
		1283.0	20	25660	950.4
1+20	1324				
		1234.5	20	24690	914.4
1+40	1145				
		1048.0	20	20960	776.3
1+60	951				
		761.5	20	15230	564.1
1+80	572				
		446.0	20	8920	330.4
2+00	320				
		216.0	20	4320	160.0
2+20	112				
		67.5	20	1350	50.0
2+40	23				
		11.5	20	230	8.5
2+60	0				
		0.0	20	0	0.0
2+66	0				
TOTAL					**6402.2**

EXCAVATION QUANTITIES



NOTES:

(1) SEE DRAINAGE PLAN FOR SLOPES. SLOPES GENERALLY SLOPE 2% PERPENDICULAR FROM THE EXISTING STRUCTURE AND 1% TO 1.5% TOWARDS WEST/SOUTHWEST.

(2) SEE PLAN SHEET, DISTANCE VARIES. START CUT 10' OR 20' FROM PROPERTY LINE WHERE SHOWN.

(3) STABILIZE OVERBURDEN SLOPE AS FOLLOWS:
- LAY BACK AT A 1:1 SLOPE
- INSTALL TURF REINFORCING MATTING, NORTH AMERICAN GREEN P550 TRM OR EQUAL, OVER OVERBURDEN SLOPE AREA.
- SECURE MATTING TO SLOPE WITH 8" WIRE STAPLES INSTALLED AT 20" ON CENTER (3.4 STAPLES/SY) AS RECOMMENDED BY THE MFGR FOR A 1:1 SLOPE
- APPLY ADOT APPROVED SEED MIX OVER THE STABILIZED AREA

TYPICAL EXCAVATION SECTION

FOR BID
JANUARY 26, 2015

0" 1/4" 1/2" 3/4"
GRAPHIC SCALE

REV	DATE	DESCRIPTION
0	01/26/15	FOR BID

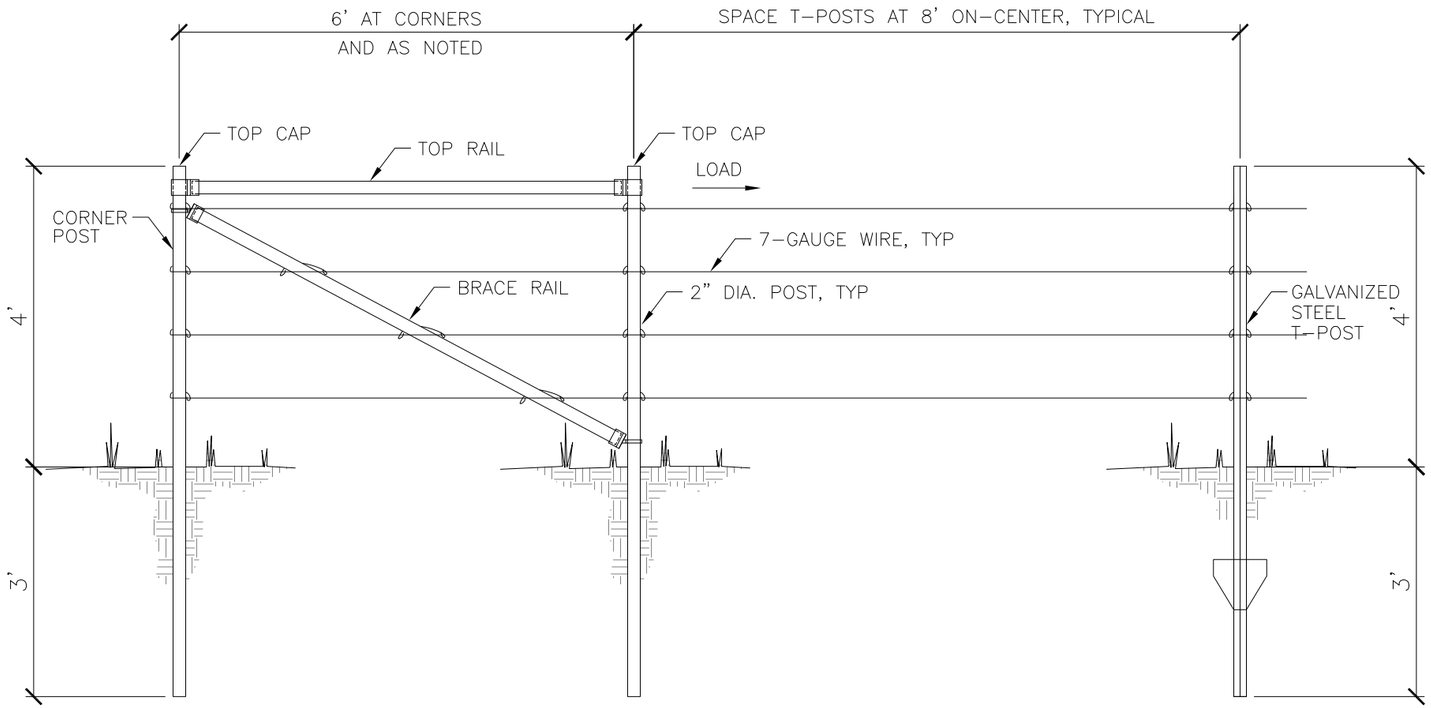
STATE OF ALASKA 49TH THOMAS REGAN CE-7125 01/26/15 REGISTERED PROFESSIONAL ENGINEER

REGAN ENGINEERING, P.C.

PROJECT: CITY OF UNALASKA
PUBLIC SAFETY
PARKING LOT EXPANSION

TITLE: **QUANTITIES / SECTION**

DESIGNED BY: TR | DATE: 01/26/15 | SHEET NO: 5 OF 7
CHECKED BY: TR | DPW PROJECT NO: 14103



DETAIL - FALL PROTECTION FENCE

DETAIL - WARNING SIGN

SPECIFICATIONS:

TENSION WIRE: 7 GAUGE AS MANUFACTURED BY DAVIS WIRE OF KENT, WASHINGTON MEETING THE REQUIREMENTS OF ASTM A817 AND AASHTO M181 (1.2 oz).

T-POSTS: GALVANIZED, HEAVY DUTY, DOMESTICALLY MANUFACTURED TO MEET THE REQUIREMENTS OF ASTM A702.

SIGNAGE: REFLECTIVE ALUMINUM, ATTACH TO T-POST WITH GALVANIZED U-BOLTS. INSTALL A TOTAL OF 4-SIGNS EQUALLY SPACED ACROSS THE FENCE.

CORNER AND BRACE POSTS: POSTS SHALL BE HOT-DIP GALVANIZED, ROUND, WITH AN OUTSIDE DIAMETER OF 2.375-INCHES, WEIGHT 3.65 POUNDS PER FOOT.

BRACE AND TOP RAIL: BRACE AND TOP RAIL SHALL BE HOT-DIP GALVANIZED, ROUND, WITH AN OUTSIDE DIAMETER OF 1.66-INCHES, WEIGHT 2.27 POUNDS PER FOOT.

INSTALL BRACE AND TOP RAIL SETS AT ENDS AND AT INTERMEDIATE POINTS AT APPROXIMATE 1/3 POINTS OF FENCE (4-TOTAL).

FOR BID
JANUARY 26, 2015

0" 1/4" 1/2" 3/4"
GRAPHIC SCALE

REV	DATE	DESCRIPTION
0	01/26/15	FOR BID

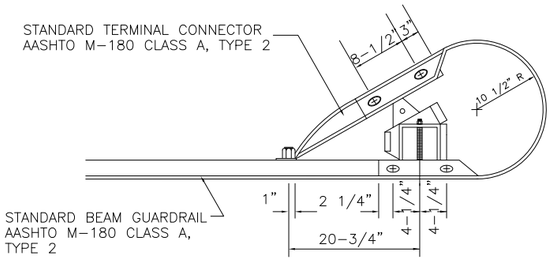
STATE OF ALASKA
49TH
THOMAS REGAN
CE-7126
01/26/15
REGISTERED PROFESSIONAL ENGINEER

REGAN ENGINEERING, P.C.

PROJECT:
CITY OF UNALASKA
PUBLIC SAFETY
PARKING LOT EXPANSION

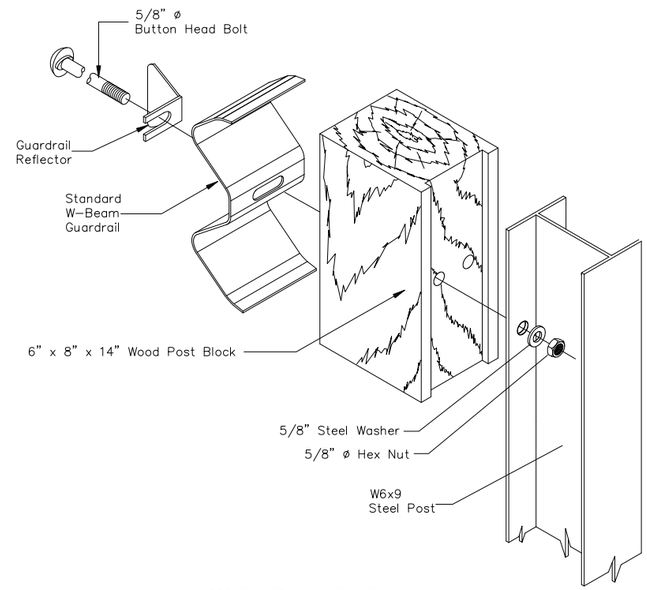
TITLE:
FENCE DETAILS

DESIGNED BY:	TR	DATE:	01/26/15	SHEET NO:	6 OF 7
CHECKED BY:	TR	DPW PROJECT NO:	14103		



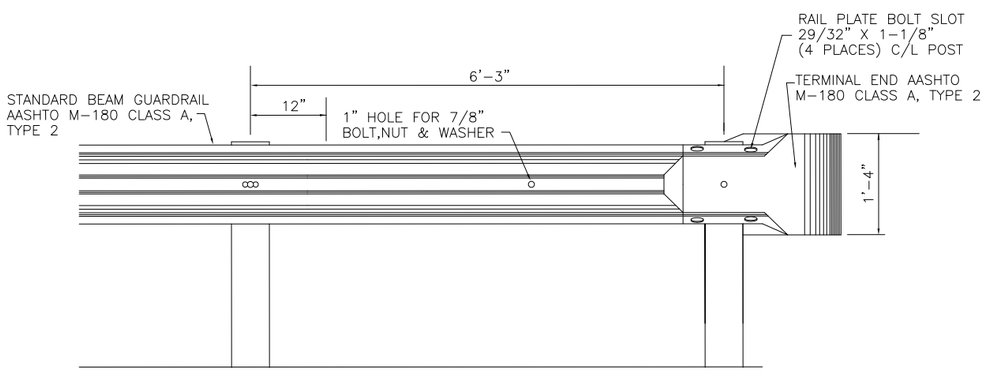
PLAN – TERMINAL END

N.T.S.



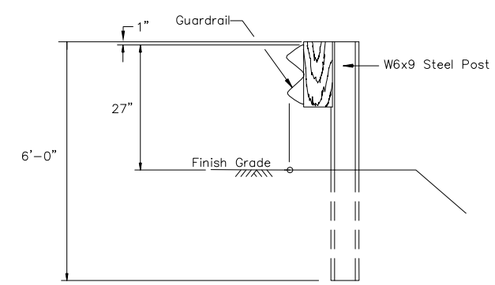
ASSEMBLY DETAIL

N.T.S.



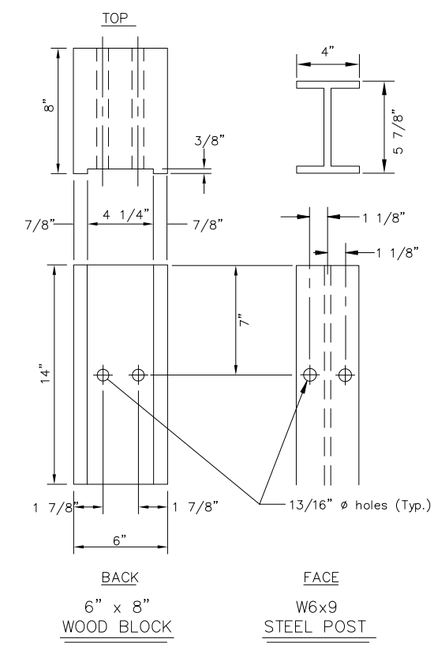
ELEVATION – TERMINAL END

N.T.S.



POST INSTALLATION

N.T.S.



POST AND BLOCK

N.T.S.

GENERAL NOTES:

1. Guardrail Reflectors shall be mounted at 30' centers beginning with the first post. Type A Reflectors shall be used unless specified otherwise on the be used unless specified otherwise on plans.
2. All covered hardware shall comply with the AASHTO/AGC/ARTBA "A Guide to Standardized Highway Barrier Hardware", latest edition.
3. See ADOT standard drawings G-00, "Standard Guardrail Hardware" for hardware details.
4. Mount rail to block with bolt on approaching traffic side of block web.
5. Typical post spacing is 6'-3" center to center.
6. Install termoinal end section at each end of guardrail. End sections are inlcluded in the price of the guardrail.

NOTE: POSTS TO BE DRIVEN OR EXCAVATED AND BACKFILLED WITH MATERIAL MEETING THE REQUIREMENTS FOR SURFACING MATERIAL COMPACTED 95% MAXIMUM DENSITY.

FOR BID
JANUARY 26, 2015

0" 1/4" 1/2" 3/4"
GRAPHIC SCALE

REV	DATE	DESCRIPTION
0	01/26/15	FOR BID

STATE OF ALASKA 49TH THOMAS REGAN CE-7125 01/26/15 REGISTERED PROFESSIONAL ENGINEER

REGAN ENGINEERING, P.C.

PROJECT: CITY OF UNALASKA
PUBLIC SAFETY
PARKING LOT EXPANSION

TITLE: **GUARDRAIL DETAILS**

DESIGNED BY:	TR	DATE:	01/26/15	SHEET NO:	7 OF 7
CHECKED BY:	TR	DPW PROJECT NO:	14103		