

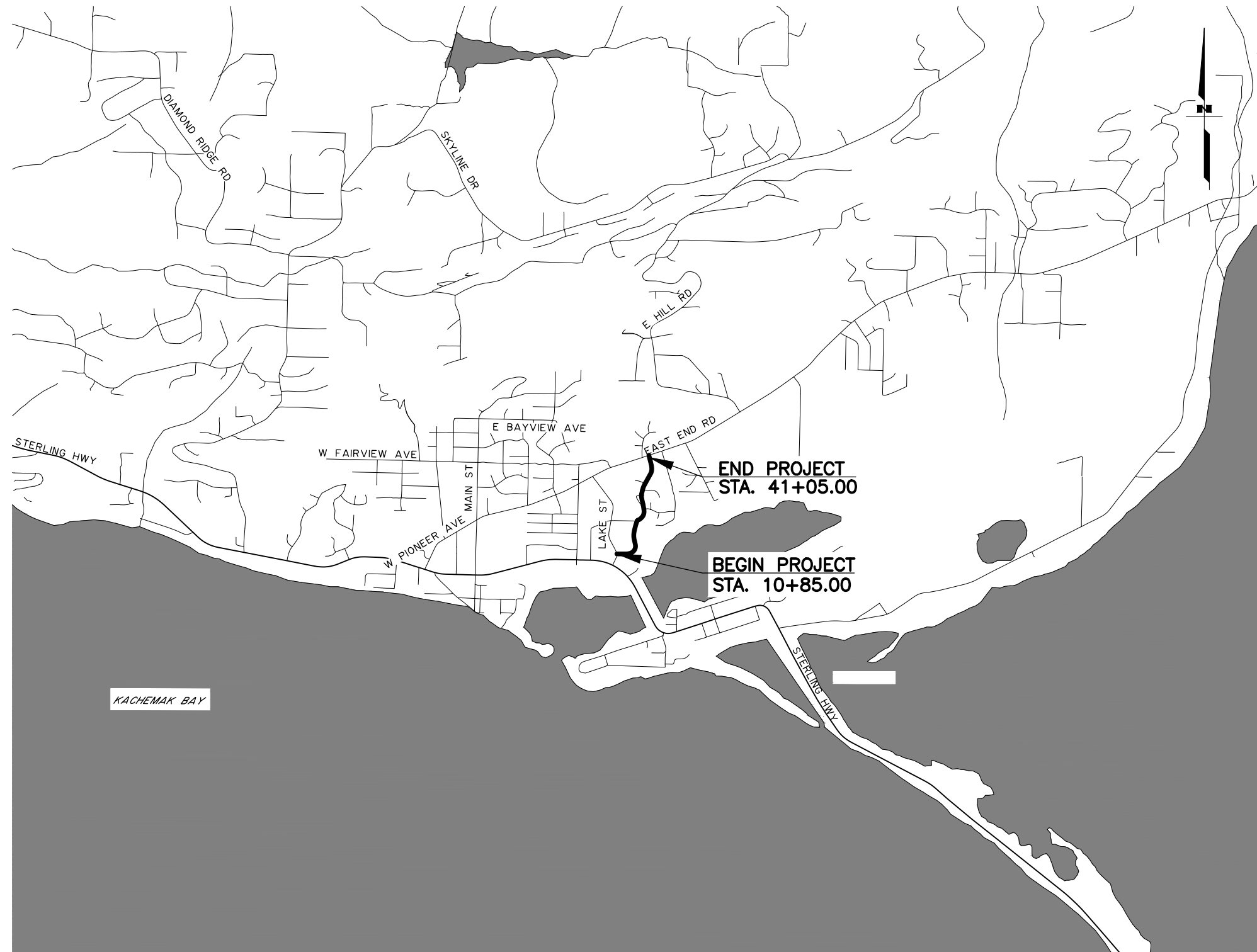
WP DRAFTED NMO CHECKED DAD DESIGNED A1 LAYOUT 2/21/2024 8:51 AM FILE H:\JOBS\17-014 HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE SIDEWALK CAD\DRAWINGS\17014\_04\_A01.DWG

NO.	DATE	REVISION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
160-0798-XXXX	2024	A1	A5

# CITY OF HOMER PUBLIC WORKS DEPARTMENT

## BEN WALTERS LANE SIDEWALK IMPROVEMENTS PROJECT NO. 160-0798-XXXX



HOMER CITY COUNCIL

MAYOR  
KEN CASTNER

CITY MANAGER  
ROB DUMOUCHEL

COUNCIL MEMBERS  
DONNA ADERHOLD  
RACHEL LORD  
JASON DAVIS  
SHELLY ERICKSON  
CAROLINE VENUTI  
STORM HANSEN

FUNDED THROUGH HART ROAD FUND

APPROVED BY:

\_\_\_\_\_  
DAN KORT  
DIRECTOR OF PUBLIC WORKS



H:\JOBS\17-014\_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE  
 SIDEWALK CAD\DRAWINGS\17014\_04\_A03.DWG  
 DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ SCALE: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_ DRAFTED BY: \_\_\_\_\_  
 DAD NMO WJP

NO.	DATE	REVISION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
160-0798-XXXX	2024	A3	A5

### ROADWAY

	EXISTING	PROPOSED
EDGE OF PAVEMENT		
LIMIT OF CUT SLOPE & FILL SLOPE		
GRAVEL EDGE		
SIDEWALK AND PATH/TRAIL		
CONCRETE CURB & GUTTER		
CONCRETE CURB CUT		
PARALLEL CURB RAMP		
PERPENDICULAR CURB RAMP		
UNIDIRECTIONAL CURB RAMP & MID-BLOCK CURB RAMP		
DETECTABLE WARNING TILE		
BRIDGE		
TUNNEL		
GUARDRAIL		
END & PARALLEL END SECTIONS		
ROADWAY OBLITERATION		
FENCE		
STONE FENCE		
NOISE BARRIER		
RETAINING WALL		
HEADWALL & WINGWALL		
BOTTOM OF DITCH		
DITCHING		
FLAT BOTTOM DITCH		
BERM		
RIPRAP		
BOULDER OR BOULDERS		
PRIVATE SIGN, MAILBOX		
POST, BOLLARD		

### UTILITIES

	EXISTING	PROPOSED
STORM DRAIN		
STORM DRAIN MANHOLE, CLEANOUT		
CURB INLET CATCH BASIN		
FIELD INLET CATCH BASIN		
PIPE CULVERT WITH END SECTION		
SANITARY SEWER		
SANITARY SEWER MANHOLE, CLEANOUT		
SEPTIC VENT, SEWER SERVICE CONNECTION		
WATER		
FIRE HYDRANT, VALVE OR RISER		
WELL, WATER SERVICE CONNECTION		
PRESSURE RELIEF VAULT		
NATURAL GAS		
OIL OR GASOLINE PIPELINE		
TANKS (ABOVE GROUND, UNDERGROUND)		
ELECTRIC		
UTILITY POLE, POLE WITH LUMINAIRE		
GUY POLE, GUY WIRE ANCHOR		
TRANSMISSION TOWER (WOOD, STEEL)		
ELECTRIC PEDESTAL, TRANSFORMER		
ELECTRIC MANHOLE, METER		
ELECTRIC OUTLET, LANDSCAPE LIGHT		
TELEPHONE		
TELEPHONE MANHOLE, PEDESTAL		
FIBER OPTIC		
FIBER OPTIC MANHOLE		
CABLE TV		
CABLE TV PEDESTAL, SATELLITE DISH		
UNDERGROUND DUCT, UTILIDOR (ELECTRIC, TELEPHONE, FIBER OPTIC)		
VENT		

### TRAFFIC

	EXISTING	PROPOSED
LOAD CENTER		
STATE TRAFFIC & BEACON CONTROLLER		
ARROW INDICATES DOOR LOCATION		
TYPE 1A, II, III, IV JUNCTION BOX		
FIBER OPTIC VAULT		
ELECTROLIER		
HIGHTOWER		
SIGNAL POLE WITH MASTARM		
PEDESTRIAN PUSH BUTTON & SIGNAL		
VEHICULAR SIGNAL		
VEHICULAR SIGNAL LEFT & RIGHT		
OPTICAL, CAMERA, RADAR, AND GPS DETECTOR		
LOOP DETECTOR		
COMMUNICATION ANTENNA		
MASTARM BEACON		
RURAL & SCHOOL ZONE BEACON		
LOOP DETECTOR CONDUIT		
SIGNAL CONDUIT		
LIGHTING CONDUIT		
SIGNAL & LIGHTING CONDUIT		
CONDUIT BORING		
CONDUIT SIZE IN INCHES		
INTERCONNECT		
SIGN POST		

### PAVEMENT MARKINGS

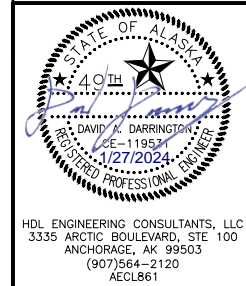
	PROPOSED
TRAFFIC PROJECT CENTERLINE	
8" & 4" WHITE SOLID STRIPE	
4" WHITE SKIP STRIPE	
10' STRIPES AND 30' SPACES	
8" WHITE LANE GUIDE SKIP	
LANE CONTINUATION OR TURN SKIP	
1" STRIPES AND 3' SPACES	
8" & 4" YELLOW SOLID STRIPE	
4" YELLOW SKIP STRIPE	
10' STRIPES AND 30' SPACES	
STRIPING CHANGE STATION INTERVAL	
1' CROSSWALK OR STOPBAR	
LADDER CROSSWALK LAYOUT	
2' WIDE RUNGS WITH 2' SPACES	
ALIGNED TO AVOID TIRE PATHS	
TYPICAL PAINTED MEDIAN	

### RIGHT-OF-WAY

	RECOVERED	SET THIS PROJECT
FEDERAL GOV'T SURVEY MONUMENT		
GOV'T CONTROL STATION		
PRIMARY MONUMENT (BRASS/AL CAP)		
MISC SECONDARY CORNER		
PRIMARY CENTERLINE MONUMENT		
SECONDARY CENTERLINE MONUMENT		
RANDOM CONTROL MONUMENT		
PRIMARY GPS CONTROL POINT		
HORIZONTAL CONTROL POINT		
SECONDARY CONTROL POINT		
VERTICAL BENCHMARK		
TEMPORARY BENCHMARK		
TOWNSHIP AND RANGE LINES		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
CORPORATE or CITY LIMITS		
EXISTING RIGHT-OF-WAY		
RIGHT-OF-WAY OR EASEMENT REQUIRED		
PROJECT RIGHT-OF-WAY LINE		
EXISTING RIGHT-OF-WAY EASEMENT		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE		
EXISTING UTILITY EASEMENT		
PROPOSED UTILITY EASEMENT		
EXISTING CENTERLINE		
RAILROAD CENTERLINE		
TEMPORARY CONSTRUCTION EASEMENT		
TEMPORARY CONSTRUCTION PERMIT		
PUBLIC USE EASEMENT		

### TOPOGRAPHY

	EXISTING	PROPOSED
LAKE OR POND, WETLANDS		
TREE (CONIFER/DECIDUOUS)		
TREELINE (EDGE OF VEGETATION)		
PLANTER		
BUILDING OR FOUNDATION		
CONTOUR, MAJOR OR MINOR		
DRAINAGE FLOW		
CREEK (CENTERLINE)		
RIVER (EDGE OF WATER)		



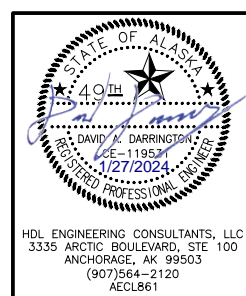
CITY OF HOMER  
 PUBLIC WORKS DEPARTMENT  
**BEN WALTERS LANE  
 SIDEWALK IMPROVEMENTS**  
 LEGEND

HDL ENGINEERING CONSULTANTS, LLC  
 3335 ARCTIC BOULEVARD, STE 100  
 ANCHORAGE, AK 99503  
 (907)564-2120  
 AECL861

H:\JOBS\17-014\_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE SIDEWALK\CAD\DRAWINGS\17014\_04\_A04.DWG  
 DATE TIME SCALE 1" = 100'  
 DESIGNED BY NMO  
 CHECKED BY NMO  
 DRAFTED BY WP

NO.	DATE	REVISION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
160-0798-XXXX	2024	A4	A5



CITY OF HOMER  
 PUBLIC WORKS DEPARTMENT  
**BEN WALTERS LANE  
 SIDEWALK IMPROVEMENTS**  
  
 PROJECT LAYOUT

HDL ENGINEERING CONSULTANTS, LLC  
 3335 ARCTIC BOULEVARD, STE 100  
 ANCHORAGE, AK 99503  
 (907)564-2120  
 AECL861

NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0798-XXXX	2023	A5	A5

### SURVEY CONTROL

#### BASIS OF BEARING

1. BASIS OF BEARING FOR THIS SURVEY WAS DETERMINED BY A HIGH PRECISION GPS SURVEY USING TOPCON DUAL-FREQUENCY HiPer V RECEIVERS, DIFFERENTIALLY CORRECTED AND PROCESSED WITH MAGNET OFFICE VERSION 3.1 SOFTWARE. NAD83 ALASKA STATE PLANE GRID COORDINATES (U.S. SURVEY FEET) OBTAINED FROM THE GPS OBSERVATIONS WERE BASED ON THE NGS PUBLISHED VALUES FOR FEDERAL BASE NETWORK CONTROL STATION "HOMAIR" (PID TT0155).

2. TRUE BEARINGS AND DISTANCES WERE DETERMINED BY ROTATING AND SCALING FROM GRID USING FEDERAL BASE NETWORK CONTROL STATION "HOMAIR" AS A SCALING POINT. TRUE BEARINGS WERE DETERMINED BY ROTATING GRID INVERSE AZIMUTHS  $-1^{\circ}17'13.4''$ . TRUE DISTANCES WERE OBTAINED BY DIVIDING GRID INVERSE DISTANCES BY 0.999986696.

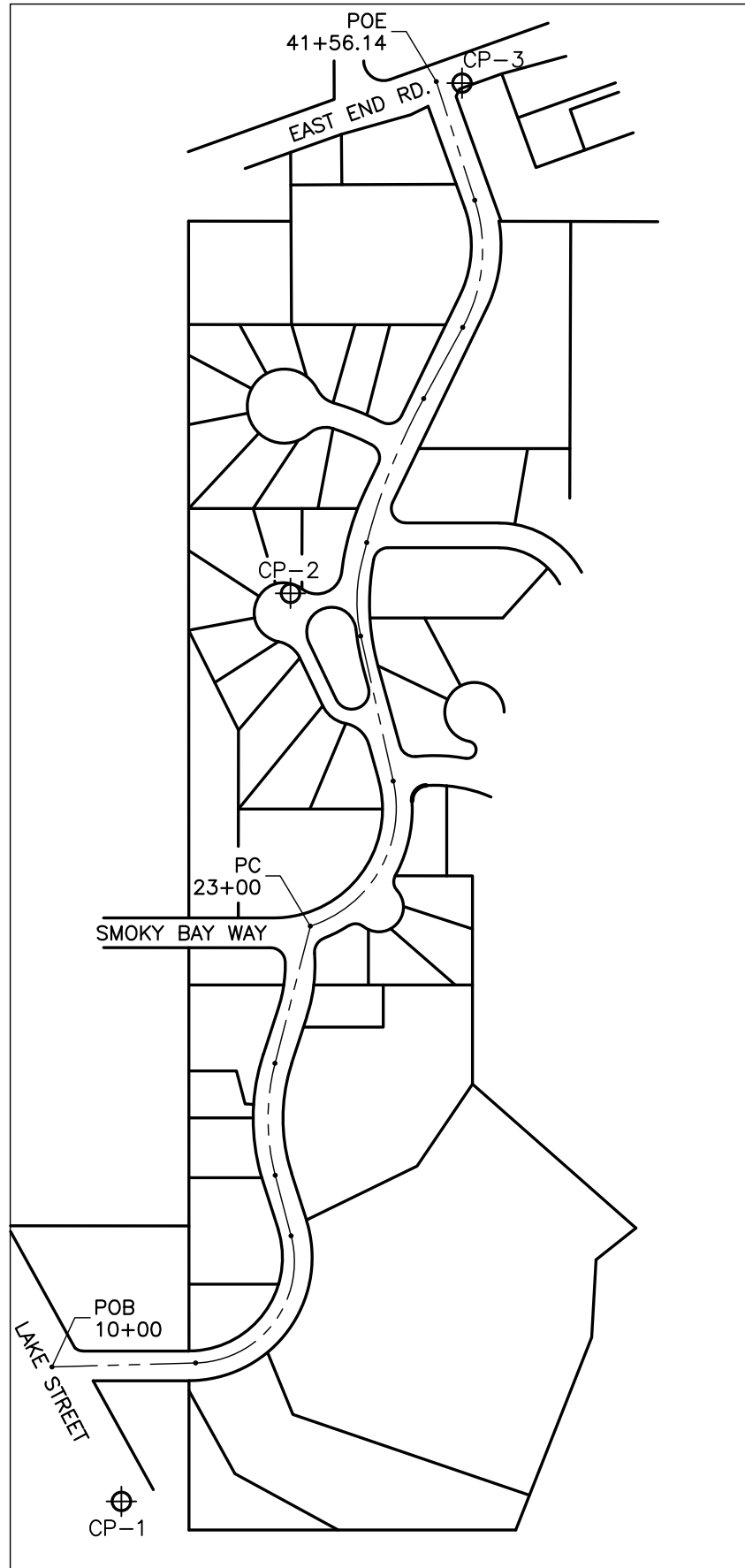
3. THE RESULTING SCALED COORDINATES WERE TRANSLATED TO A LOCAL COORDINATE SYSTEM BASED ON FEDERAL BASE NETWORK CONTROL STATION "HOMAIR"  $N=100,000$   $E=100,000$ . ALL COORDINATE VALUES REPRESENT GROUND DISTANCES IN U.S. SURVEY FEET ORIENTED TO TRUE NORTH.

#### BASIS OF VERTICAL DATUM

BASIS OF VERTICAL DATUM FOR THIS SURVEY IS THE NAVD88 NGS PUBLISHED VALUE FOR FEDERAL BASE NETWORK CONTROL STATION "HOMAIR" (PID TT0155). ORTHOMETRIC HEIGHTS (ELEVATIONS) WERE DETERMINED FROM ELLIPSOID HEIGHTS USING GEOID12B. ELEVATIONS ARE IN U.S. SURVEY FEET.

SURVEY CONTROL				
CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-1	101,263.6060	94,075.9574	36.71	DOT CP13
CP-2	103,096.9729	94,403.5492	100.42	PK NAIL IN PAVEMENT
CP-3	104,126.9008	94,764.0696	150.16	PK NAIL IN SIDEWALK

BEN WALTERS LANE ALIGNMENT DATA			
STATION	NORTHING	EASTING	CURVE DATA
POB 10+00	101,535.1616	93,936.0315	
PC 12+90.13	101,543.0246	94,226.0580	RADIUS=205.00'
PT 16+59.07	101,799.8571	94,418.8215	
PC 17+85.36	101,922.0313	94,386.8439	RADIUS=450.00'
PT 20+13.96	102,148.1844	94,386.3936	
PC 23+00.00	102,425.1867	94,457.7181	RADIUS=250.00'
PT 26+70.28	102,718.0266	94,625.1969	
PC 29+70.30	103,010.7468	94,559.4179	RADIUS=320.00'
PT 31+21.42	103,160.4554	94,561.6772	
PC 31+61.82	103,199.5810	94,571.7186	RADIUS=1250.00'
PT 34+75.13	103,490.1778	94,686.6254	
PC 36+39.22	103,634.0326	94,765.5637	RADIUS=325.00'
PT 39+04.30	103,890.6881	94,789.7747	
POE 41+56.14	104,130.2387	94,712.0446	

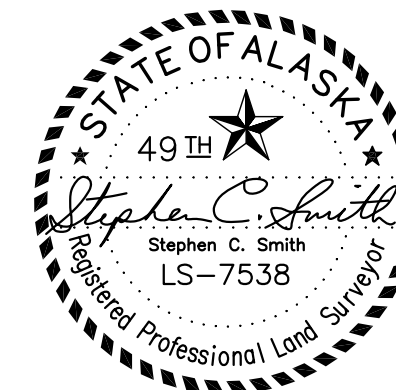


### SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I AM PROPERLY REGISTERED AND LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF ALASKA, THAT THIS PLAT REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION, THAT THE MONUMENTS SHOWN HEREON ACTUALLY EXIST AS DESCRIBED, AND THAT ALL DIMENSIONS AND OTHER DETAILS ARE CORRECT TO THE BEST OF MY KNOWLEDGE.

DATE 8/22/2023 REGISTRATION NO. 7538-S

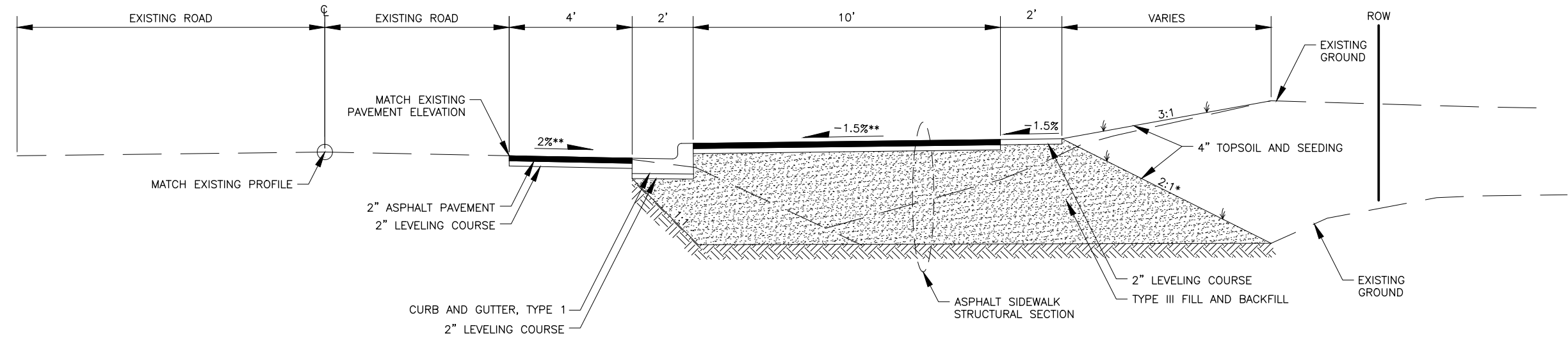
*Stephen C. Smith*  
REGISTERED LAND SURVEYOR



CITY OF HOMER  
PUBLIC WORKS DEPARTMENT  
**BEN WALTERS LANE  
SIDEWALK IMPROVEMENTS**  
**SURVEY CONTROL**

H:\JOBS\17-014\_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE  
 SIDWALK\CAD\DRAWINGS\17014\_04\_B01-B01.DWG  
 DATE TIME SCALE DESIGNED BY CHECKED BY DRAFTED BY  
 NTS  
 DAD NMO WP  
 NTS

NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0798-XXXX	2024	B1	B1



**1**  
**B1** NTS  
**BEN WALTERS LANE**  
 STA 10+85 TO STA 41+05  
 \*SEE TABLE OF SLOPE EXCEPTIONS  
 \*\*SEE TABLE OF CROSS SLOPE EXCEPTIONS

TABLE OF SLOPE EXCEPTIONS				
STATION TO STATION	OFFSET	FORE/BACK	SLOPE	REMARKS
STA 13+75 TO STA 14+35	RT	FORE	1.5:1	
STA 22+30 TO STA 23+20	RT	FORE	1.5:1	
STA 26+85 TO STA 33+10	RT	FORE	1.5:1	
STA 36+40 TO STA 36+70	RT	FORE	1.5:1	
STA 40+55 TO EOP	RT	FORE	1.5:1	

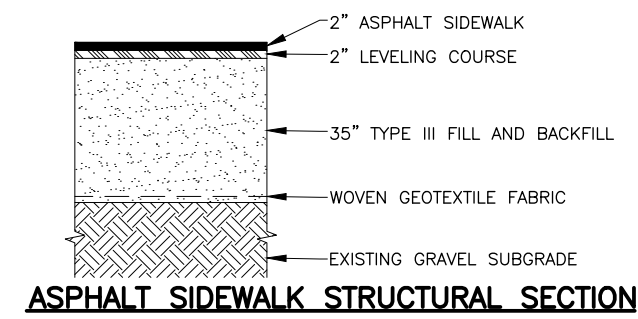
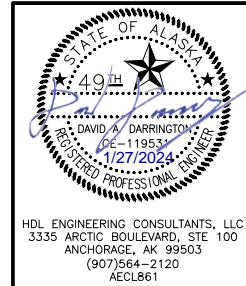


TABLE OF CROSS SLOPE EXCEPTIONS			
STATION TO STATION	OFFSET	SLOPE***	REMARKS
STA 11+25 TO STA 11+55	RT	1.5%	ASPHALT SIDEWALK
STA 12+20 TO STA 12+55	RT	1.5%	ASPHALT SIDEWALK
STA 12+75 TO STA 16+55	RT	-1.5%	ROADWAY
STA 24+95 TO STA 26+85	RT	-2.0%	ROADWAY

\*\*\*NEGATIVE SLOPE INDICATES SLOPE IS DRAINING TOWARD THE ROADWAY CENTERLINE



CITY OF HOMER  
 PUBLIC WORKS DEPARTMENT  
**BEN WALTERS LANE  
 SIDEWALK IMPROVEMENTS**

TYPICAL SECTIONS

HDL ENGINEERING CONSULTANTS, LLC  
 3335 ARCTIC BOULEVARD, STE 100  
 ANCHORAGE, AK 99503  
 (907)564-2120  
 AECL861

H:\JOBS\17-014\_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE SIDEWALK\CAD\DRAWINGS\17014\_04\_C01.DWG  
 DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ SCALE: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_ DRAFTED BY: \_\_\_\_\_  
 NMO NMP

NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0798-XXXX	2024	C1	C1

**ESTIMATE OF QUANTITIES**

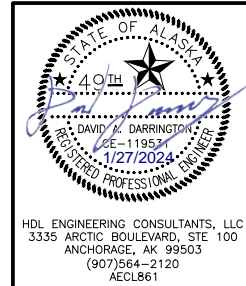
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY	
			SCHEDULE A	SCHEDULE B
101	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D	-
102	CONSTRUCTION SURVEYING	LS	ALL REQ'D	-
103	TRAFFIC MAINTENANCE	LS	ALL REQ'D	-
202	CLEARING AND GRUBBING	ACRE	2	-
203	REMOVAL OF OBSTRUCTIONS	LS	ALL REQ'D	ALL REQ'D
204	EXCAVATION	CY	4,200	-
205	TYPE (III) FILL AND BACKFILL	TON	11,900	295
206	LEVELING COURSE	TON	720	3
219	REMOVE EXISTING PAVEMENT	SY	3,550	16
220-1	RECONSTRUCT APPROACH	EACH	2	-
220-2	RECONSTRUCT DRIVEWAY	EACH	12	-
221	DITCH LINING	TON	21	-
302	CURB AND GUTTER, ALL TYPES	LF	3,160	-
304	CURB RAMP	EACH	7	-
401	ASPHALT PAVEMENT	TON	255	2
402	PAINTED TRAFFIC MARKINGS	LS	ALL REQ'D	-
404	INSTALL ASPHALT SIDEWALK	TON	351	-
511	ADJUST MANHOLE CONE	EACH	5	-
512	ADJUST MANHOLE RING	EACH	2	-
602	FURNISH AND INSTALL WATER MAIN	LF	-	20
603	FURNISH AND INSTALL GATE VALVE, VALVE BOX AND MARKER	EACH	-	1
604	FURNISH AND INSTALL FIRE HYDRANT ASSEMBLY (SINGLE PUMPER)	EACH	-	3
607	ADJUST VALVE BOX TO FINISH GRADE	EACH	1	1
702 (W)	WOVEN GEOTEXTILE FABRIC	SY	3,400	-
707	FURNISH & INSTALL STANDARD SIGN	EACH	16	-
707	SALVAGE SIGN	EACH	6	-
707	REMOVE AND RELOCATE SIGN	EACH	1	-
708	SEEDING (TYPE I)	MSF	20	1
710	TOPSOIL (4 INCH)	MSF	20	1
711	SWPPP IMPLEMENTATION	LS	ALL REQ'D	-
712	ADJUST ELECTRICAL PEDESTAL	EACH	2	-
802	FURNISH AND INSTALL CMP 18 INCH	LF	349	-
802	FURNISH AND INSTALL CMP 24 INCH	LF	52	-
802-E	FURNISH AND INSTALL CMP 18 INCH END SECTION	EACH	7	-
802-E	FURNISH AND INSTALL CMP 24 INCH END SECTION	EACH	2	-
806	CONSTRUCT CATCH BASIN	EACH	7	-

**TABLE OF ESTIMATING FACTORS**

ITEM NO.	ITEM DESCRIPTION	UNIT
205	TYPE (III) FILL AND BACKFILL	144 LB/CF
206	LEVELING COURSE	144 LB/CF
221	DITCH LINING	110 LB/CF
401	ASPHALT PAVEMENT	151 LB/CF
404	INSTALL ASPHALT SIDEWALK	151 LB/CF

**NOTES**

1. ASPHALT PAVEMENT BID PRICE INCLUDES TOTAL COST FOR HMA AND ASPHALT BINDER.



CITY OF HOMER  
 PUBLIC WORKS DEPARTMENT  
**BEN WALTERS LANE  
 SIDEWALK IMPROVEMENTS**

**ESTIMATE OF QUANTITIES**

HDL ENGINEERING CONSULTANTS, LLC  
 3335 ARCTIC BOULEVARD, STE 100  
 ANCHORAGE, AK 99503  
 (907)564-2120  
 AECL861

NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0798-XXXX	2024	D1	D4

### 203 - REMOVAL OF OBSTRUCTIONS

SHEET	STATION		OFFSET	LENGTH (LF)	TOTAL (EA)	REMARKS
	FROM	TO				
F1	10+85.00	11+26.61	RT	63		REMOVAL OF CURB AND GUTTER
	11+59.42	12+19.05	RT	117		REMOVAL OF CURB AND GUTTER
	12+50.90	12+61.07	RT	35		REMOVAL OF CURB AND GUTTER
	12+95.86	13+28.45	RT		10	REMOVAL OF BOLLARDS
	14+07.81	14+07.81	LT		1	REMOVAL OF FIRE HYDRANT, SCHEDULE B
	14+22.91	14+28.65	LT/RT	41		REMOVAL OF CULVERT PIPE
F2	18+99.11	18+99.11	LT		1	REMOVAL OF FIRE HYDRANT, SCHEDULE B
	20+42.05	20+66.63	RT	25		REMOVAL OF CULVERT PIPE
F3	21+21.50	21+61.41	RT	40		REMOVAL OF CULVERT PIPE
	21+96.55	22+16.33	LT/RT	40		REMOVAL OF CULVERT PIPE
	23+56.75	23+84.06	RT	30		REMOVAL OF CULVERT PIPE
	23+90.11	23+93.13	RT	20		REMOVAL OF CULVERT PIPE
F4	26+08.32	26+08.32	LT		1	REMOVAL OF FIRE HYDRANT, SCHEDULE B
	27+53.50	28+03.56	RT	50		REMOVAL OF CULVERT PIPE
F5	33+98.44	34+38.79	RT	40		REMOVAL OF CULVERT PIPE
F6	35+11.03	35+11.03	RT		1	REMOVAL OF PRESSURE RELIEF VALVE VAULT, SCHEDULE B
	35+51.02	35+80.55	RT	30		REMOVAL OF CULVERT PIPE
	37+62.44	37+89.90	RT	30		REMOVAL OF CULVERT PIPE
F7	38+79.92	39+17.94	RT	40		REMOVAL OF CULVERT PIPE
	40+27.18	40+57.68	RT	31		REMOVAL OF CULVERT PIPE
	40+94.59	41+04.90	RT	11		REMOVAL OF CURB AND GUTTER

### 220-1 - RECONSTRUCT APPROACH

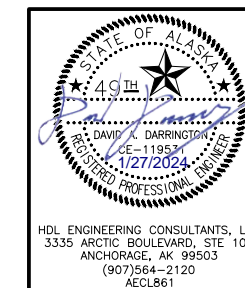
SHEET	STATION	OFFSET	SKEW ANGLE (90° TYP.)	TYPE		WIDTH (FT)	LENGTH (FT)	REMARKS
				PUB.				
F4	26+82.66	RT	85°8'	ASPHALT		22	42.6	LAKESIDE DR
F5	31+85.60	RT	75°26'	ASPHALT		22	46.7	HILLFAIR CT
TOTAL:				2				

### 220-2 - RECONSTRUCT DRIVEWAY

SHEET	STATION	OFFSET	SKEW ANGLE (90° TYP.)	TYPE		WIDTH (FT)	LENGTH (FT)	REMARKS
				RES.	COM.			
F1	11+39.41	RT	85°5'		ASPHALT	29	17.9	
	12+39.05	RT	84°45'		ASPHALT	29	21.8	
	12+75.46	RT	74°45'		ASPHALT	18	39.1	
	14+14.33	RT	59°50'		GRAVEL	8	44.5	PATHWAY
F2	20+51.95	RT	-	GRAVEL		15	11.4	
F3	21+46.52	RT	-	ASPHALT		21	13.6	
	23+67.61	RT	-	ASPHALT		28.8	23.9	
F4	27+74.71	RT	-	GRAVEL		34	16.5	
	30+52.20	RT	-	ASPHALT		15	33.9	
F5	34+18.25	RT	-	ASPHALT		22	26.7	
F6	37+77.49	RT	-	ASPHALT		26	29.1	
F7	39+01.18	RT	-	ASPHALT		25	19.8	
TOTAL:				3	9			

### 219 - REMOVAL OF EXISTING PAVEMENT

SHEET	STATION		AREA (SY)	REMARKS
	FROM	TO		
F1	10+85.00	16+00.00	590	
F2	16+00.00	21+00.00	403	
F3	21+00.00	24+00.88	407	
	24+59.81	26+00.00	164	
F4	26+00.00	31+00.00	630	
F5	31+00.00	35+00.00	599	
F6	35+00.00	35+24.47	16	SCHEDULE B
	35+00.00	38+50.00	438	
F7	38+50.00	41+05.00	289	
TOTAL:			3,536	
PAY ITEM QUANTITY:			3,550	



CITY OF HOMER  
PUBLIC WORKS DEPARTMENT  
**BEN WALTERS LANE  
SIDEWALK IMPROVEMENTS**

SUMMARY TABLES

HDL ENGINEERING CONSULTANTS, LLC  
3335 ARCTIC BOULEVARD, STE 100  
ANCHORAGE, AK 99503  
(907)564-2120  
AECL861

DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_ DRAFTED BY: \_\_\_\_\_  
 SCALE: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 H:\JOBS\17-014\_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE SIDEWALK\CAD\DRAWINGS\17014\_04\_D01\_SUM.DWG



NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0798-XXXX	2024	D2	D4

**221 - DITCH LINING**

SHEET	STATION		QUANTITY (TON)	REMARKS
	FROM	TO		
F3	23+90.59	23+99.17	3	
	24+61.43	24+74.65	4	
F4	26+56.31	26+66.09	4	
	26+91.06	27+00.90	3	
F5	31+69.33	31+81.15	4	
	32+08.38	32+14.79	3	
TOTAL:			21	

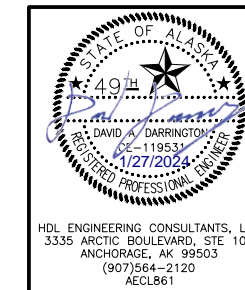
**304 - CURB RAMP**

SHEET	STATION	OFFSET	QUANTITY	REMARKS
F3	22+91.54	15.0 RT	1	
	23+89.96	16.1 RT	1	
	24+74.15	14.7 RT	1	
F4	26+60.68	20.7 RT	1	
	27+01.46	19.4 RT	1	
F5	31+67.98	19.0 RT	1	
	32+12.78	22.0 RT	1	
TOTAL:			7	

**302 - CURB AND GUTTER, ALL TYPES**

SHEET	STATION		LENGTH (LF)	REMARKS
	FROM	TO		
F1	10+85.00	16+00.00	533	
	11+26.61	11+26.91	17	CURB BACKING
	11+56.05	11+59.42	19	CURB BACKING
	12+19.05	12+22.45	22	CURB BACKING
	12+50.90	12+51.48	23	CURB BACKING
F2	16+00.00	21+00.00	498	
F3	21+00.00	23+95.88	304	
	24+65.42	26+00.00	153	
F4	26+00.00	26+65.16	99	
	26+92.38	31+00.00	433	
F5	31+00.00	31+79.77	113	
	32+09.13	35+00.00	324	
F6	35+00.00	38+50.00	358	
F7	38+50.00	41+04.90	257	
TOTAL:			3,153	
PAY ITEM QUANTITY:			3,160	

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 SCALE: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 H:\JOBS\17-014\_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE  
 SIDEWALK\CAD\DRAWINGS\17014\_04\_D01\_SUM.DWG



CITY OF HOMER  
PUBLIC WORKS DEPARTMENT  
**BEN WALTERS LANE  
SIDEWALK IMPROVEMENTS**

SUMMARY TABLES

HDL ENGINEERING CONSULTANTS, LLC  
3335 ARCTIC BOULEVARD, STE 100  
ANCHORAGE, AK 99503  
(907)564-2120  
AECL861

DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_ DRAFTED BY: \_\_\_\_\_  
 SCALE: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 H:\JOBS\17-014\_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE SIDEWALK\CAD\DRAWINGS\17014\_04\_D01\_SUM.DWG

NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0798-XXXX	2024	D3	D4

**404 - INSTALL ASPHALT SIDEWALK**

SHEET	FROM		TO		WIDTH (FT)	QUANTITY (TON)	REMARKS
	STATION	OFFSET	STATION	OFFSET			
F1	10+85.00	14.8 RT	16+00.00	12.0 RT	10	68	
F2	16+00.00	12.0 RT	21+00.00	12.0 RT	10	63	
F3	21+00.00	12.0 RT	22+76.80	12.0 RT	10	23	
	23+21.53	12.0 RT	23+75.89	12.0 RT	10	8	
	24+88.64	12.0 RT	26+00.00	12.0 RT	10	15	
F4	26+00.00	12.0 RT	26+47.52	12.5 RT	10	7	
	27+16.06	12.3 RT	31+00.00	12.0 RT	10	48	
F5	31+00.00	12.0 RT	31+53.13	12.3 RT	10	7	
	32+26.60	13.2 RT	35+00.00	12.0 RT	10	34	
F6	35+00.00	12.0 RT	38+50.00	12.0 RT	10	46	
F7	38+50.00	12.0 RT	41+05.00	13.0 RT	10	32	
TOTAL:						351	

**602 - FURNISH AND INSTALL WATER MAIN**

SHEET	STATION		LENGTH (LF)	REMARKS
	FROM	TO		
F6	35+02.92	35+19.13	20	SCHEDULE B
TOTAL:			20	

**603 - FURNISH AND INSTALL GATE VALVE, VALVE BOX AND MARKER**

SHEET	STATION	OFFSET	REMARKS
F6	35+11.03	7.7 RT	SCHEDULE B
TOTAL:		1	

**604 - FURNISH AND INSTALL FIRE HYDRANT ASSEMBLY (SINGLE PAMPER)**

SHEET	STATION	OFFSET	REMARKS
F1	14+07.81	19.5 LT	SCHEDULE B
F2	18+99.11	30.6 LT	SCHEDULE B
F4	26+08.32	42.1 LT	SCHEDULE B
TOTAL:		3	

**607 - ADJUST VALVE BOX TO FINISHED GRADE**

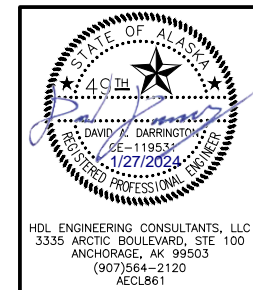
SHEET	STATION	OFFSET	REMARKS
F2	19+03.21	28.5 LT	SCHEDULE B
F3	23+37.53	29.3 RT	
TOTAL:		2	

**511 - ADJUST MANHOLE CONE**

SHEET	STATION	OFFSET	REMARKS
F2	18+70.30	12.7 RT	SANITARY SEWER
F4	27+19.73	9.9 RT	SANITARY SEWER
F5	32+68.62	9.2 RT	SANITARY SEWER
	34+98.15	13.2 RT	SANITARY SEWER
F7	39+73.57	15.2 RT	SANITARY SEWER
TOTAL:		5	

**512 - ADJUST MANHOLE RING**

SHEET	STATION	OFFSET	REMARKS
F5	31+94.78	33.2 RT	SANITARY SEWER
	33+68.64	16.7 RT	SANITARY SEWER
TOTAL:		2	



CITY OF HOMER  
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 ANCHORAGE, AK 99503  
 (907)564-2120  
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NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0798-XXXX	2024	D4	D4

**712 - ADJUST ELECTRICAL PEDESTAL**

SHEET	STATION	OFFSET	REMARKS
F4	29+02.70	22.0 RT	
F5	32+45.41	31.0 RT	
TOTAL:		2	

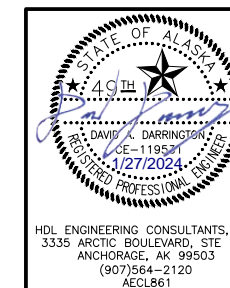
**802 ITEMS - PIPE SUMMARY**

SHEET	INLET			OUTLET			SIZE (IN)	LENGTH (LF)	END SECTION	REMARKS
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.				
P1-1	13+97.00	12.0 RT	33.16	14+18.47	33.0 RT	31.16	18	32	1	CMP*
P1-2	14+28.65	17.2 LT	33.24	14+21.70	33.4 RT	31.41	24	52	2	CMP*
P2-1	18+00.00	12.0 RT	44.86	18+00.00	22.0 LT	44.63	18	34	1	CMP*
P3-1	22+63.00	12.0 RT	64.22	22+40.00	28.9 LT	63.89	18	47	1	CMP*
P3-2	25+25.00	12.0 RT	73.00	24+57.00	25.8 LT	70.34	18	76	1	CMP*
P4-1	28+35.00	12.0 RT	85.07	28+20.00	20.3 LT	84.86	18	36	1	CMP*
P5-1	32+35.70	12.0 RT	102.86	31+73.00	19.4 LT	102.65	18	71	1	CMP*
P6-1	37+22.0	12.0 RT	123.11	36+78.00	17.2 LT	122.65	18	53	1	CMP*
18-INCH TOTAL:								349		
24-INCH TOTAL:								52		
18-INCH END SECTION TOTAL:								7		
24-INCH END SECTION TOTAL:								2		

\*CMP SHALL BE COATED WITH POLYMER. ANY DAMAGE TO THE POLYMER COATING DURING INSTALLATION SHALL BE REPAIRED PRIOR TO BACKFILLING.

**806 - CONSTRUCT CATCH BASIN**

SHEET	STATION	OFFSET	REMARKS
F1	13+97.00	12.0 RT	S1-1
F2	18+00.00	12.0 RT	S2-1
F3	22+63.00	12.0 RT	S3-1
	25+25.00	12.0 RT	S3-2
F4	28+35.00	12.0 RT	S4-1
F5	32+35.70	12.0 RT	S5-1
F6	37+22.0	12.0 RT	S6-1
TOTAL:		7	



CITY OF HOMER  
PUBLIC WORKS DEPARTMENT  
**BEN WALTERS LANE  
SIDEWALK IMPROVEMENTS**

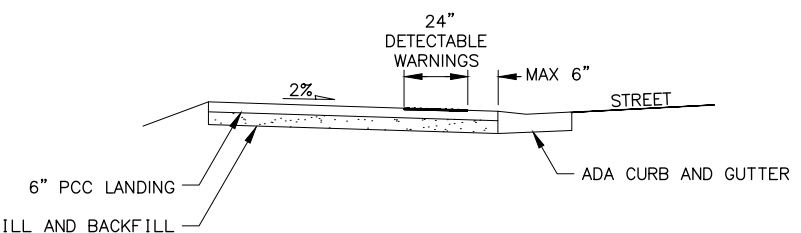
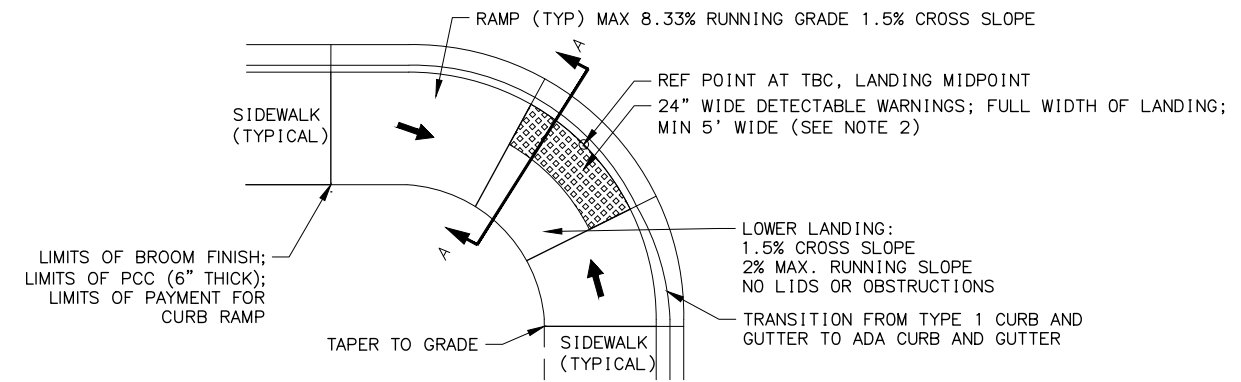
SUMMARY TABLES

HDL ENGINEERING CONSULTANTS, LLC  
3335 ARCTIC BOULEVARD, STE 100  
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DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_ DRAFTED BY: \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
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NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0798-XXXX	2024	E1	E3

DESIGNED BY: [ ] CHECKED BY: [ ] DRAFTED BY: [ ]  
 SCALE: [ ] TIME: [ ] DATE: [ ]  
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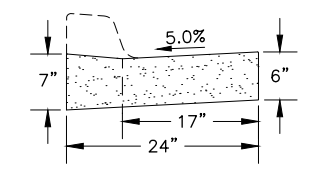


SECTION A-A

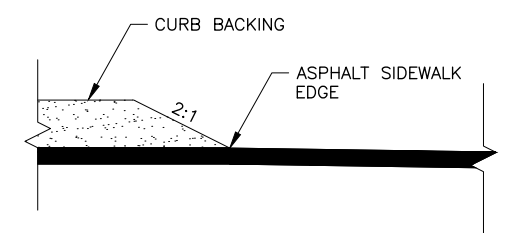
1 PARALLEL CURB RAMP DETAIL  
E1 NTS

NOTES:

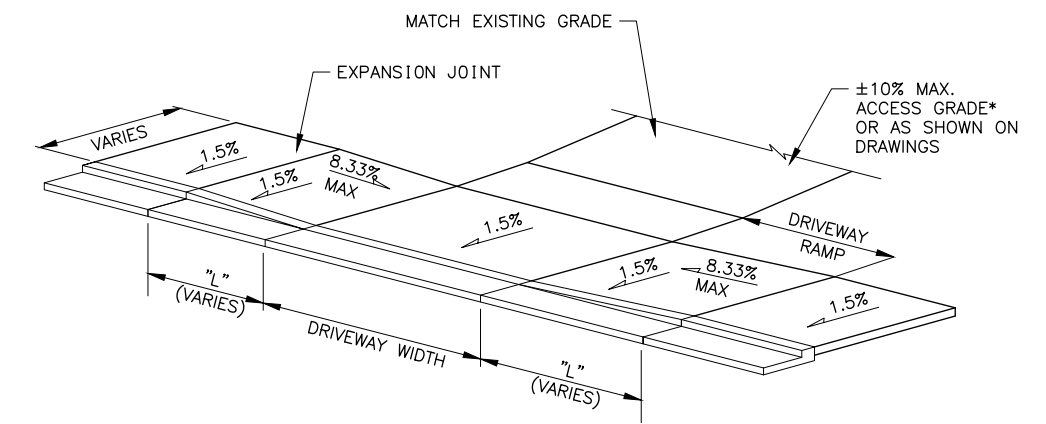
- RAMP LENGTHS AND REFERENCE POINT STATION AND OFFSET SHALL BE AS SHOWN ON DRAWINGS.
- INSTALL DETECTABLE WARNINGS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, ADA REQUIREMENTS, AND THESE DRAWINGS. SET DETECTABLE WARNINGS SO THAT THE FIELD AREA AT THE BASE OF THE DOMES IS FLUSH WITH THE SURROUNDING CONCRETE. NO LIP IS ALLOWED AT THE EDGE OF THE DETECTABLE WARNINGS.
- CONSTRUCT RAMPS AND LANDINGS WITH A BROOM FINISH PERPENDICULAR TO CURB.



2 ADA CURB AND GUTTER  
E1 NTS



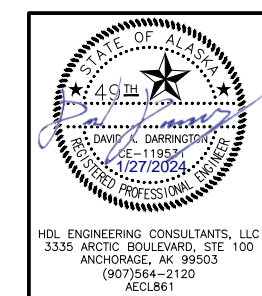
3 CURB BACKING TRANSITION DETAIL  
E1 NTS



\* MAXIMUM ALGEBRAIC DIFFERENCE IS 8% ON COMMERCIAL/INDUSTRIAL DRIVEWAYS.

4 TYPICAL DRIVEWAY ENTRANCE (WITH ATTACHED SIDEWALK)  
E1 NTS

DRIVEWAY AND CURB RAMP RUNNING SLOPE TABLE		
STREET RUNNING SLOPE	MINIMUM UPHILL RAMP LENGTH "L"	MINIMUM DOWNHILL RAMP LENGTH "L"
0.0% TO 0.5%	6.0'	6.0'
> 0.5% TO 1.6%	7.0'	6.0'
> 1.6% TO 2.4%	8.0'	5.0'
> 2.4% TO 3.1%	9.0'	5.0'
> 3.1% TO 3.6%	10.0'	5.0'
> 3.6% TO 4.0%	11.0'	4.0'
> 4.0% TO 4.4%	12.0'	4.0'
> 4.4% TO 4.7%	13.0'	4.0'
> 4.7% TO 5.0%	14.0'	4.0'
> 5.0%	15.0'	4.0'



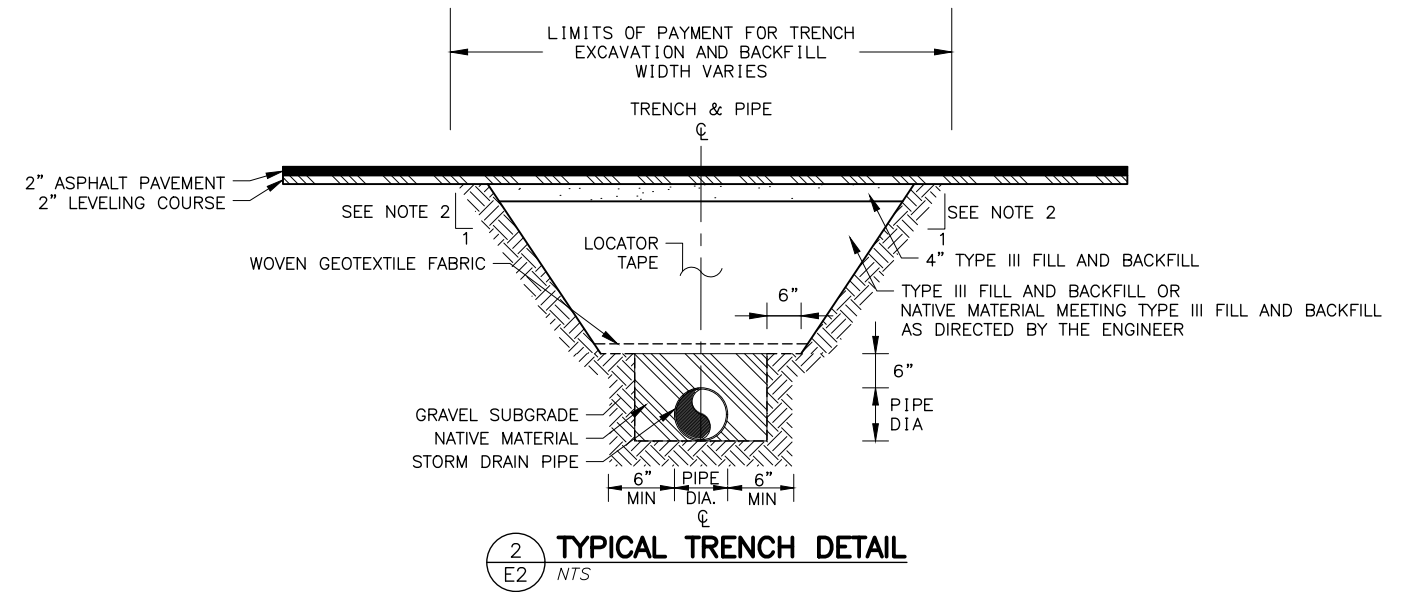
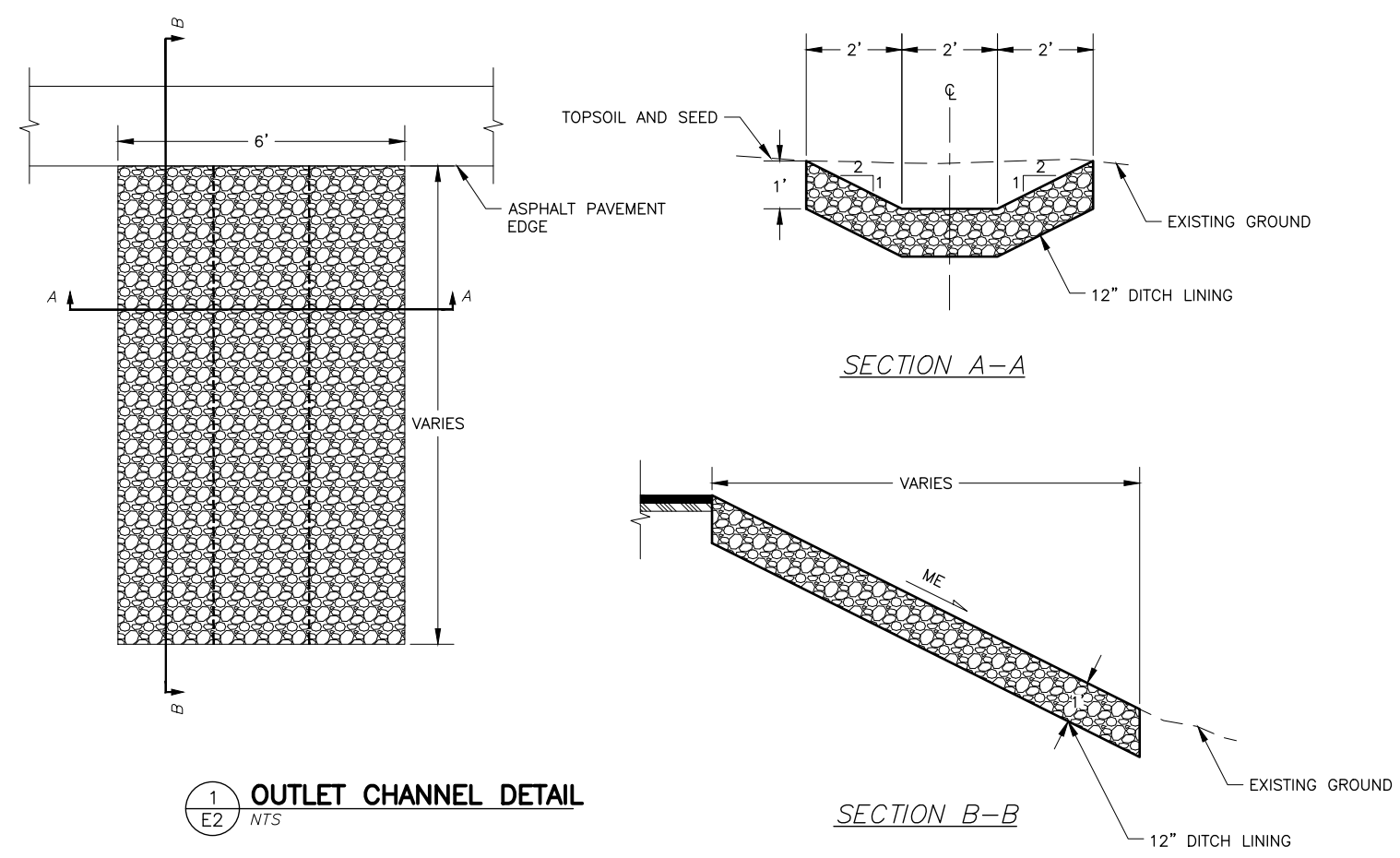
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CITY OF HOMER  
 PUBLIC WORKS DEPARTMENT  
 BEN WALTERS LANE  
 SIDEWALK IMPROVEMENTS

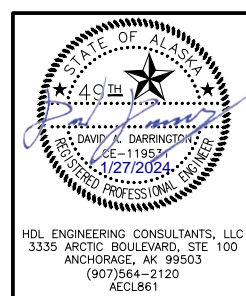
DETAILS

NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0798-XXXX	2024	E2	E3

DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_ DRAFTED BY: \_\_\_\_\_  
 SCALE: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
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- NOTES**
- TRENCH BACKFILL MATERIAL PLACED AND COMPACTED TO DEPTHS SHOWN IN THE DRAWINGS OR AS DETERMINED BY THE ENGINEER. COMPACT TRENCH BACKFILL IN 12 INCH LIFTS TO A MINIMUM OF 90% MAXIMUM DENSITY.
  - TRENCH WALL SLOPES WILL VARY WITH SOIL STRENGTH AND CHARACTER. SLOPES SHALL CONFORM TO OSHA SAFETY STANDARDS.
  - PROPOSED GEOTEXTILE SHALL OVERLAP EXISTING GEOTEXTILE A MIN OF 6 INCHES.
  - BACKFILL TRENCH USING EXCAVATED NATIVE MATERIAL.



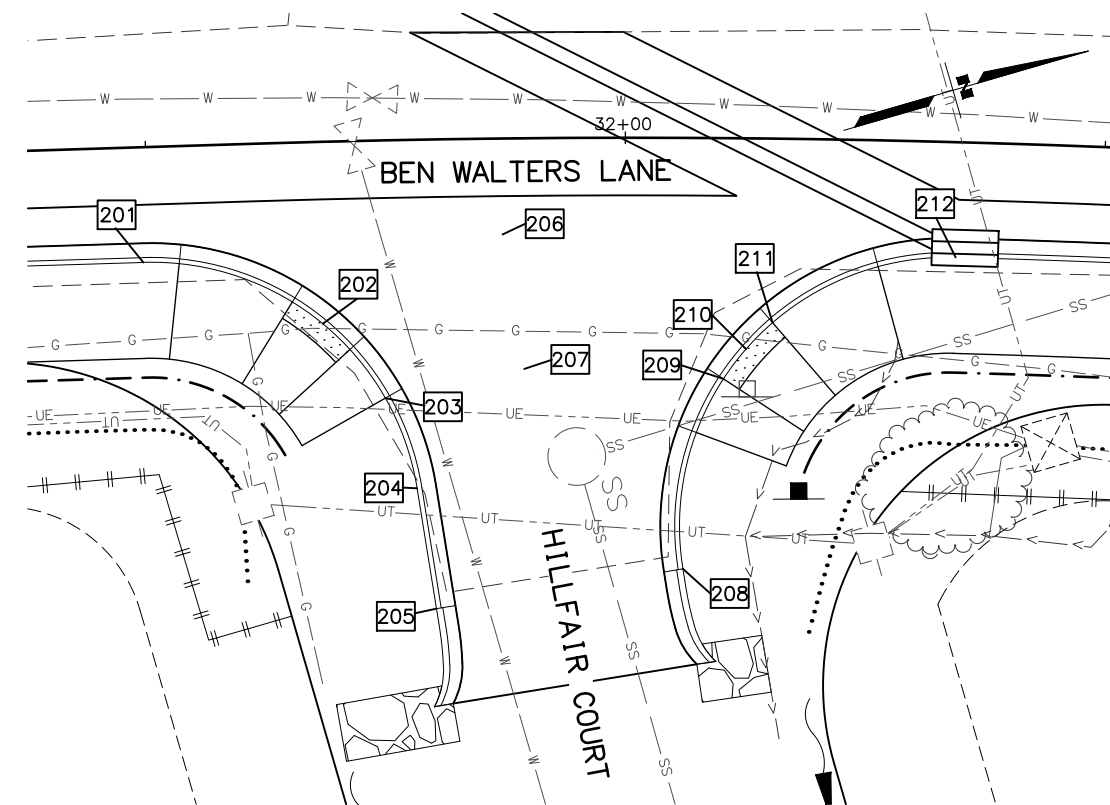
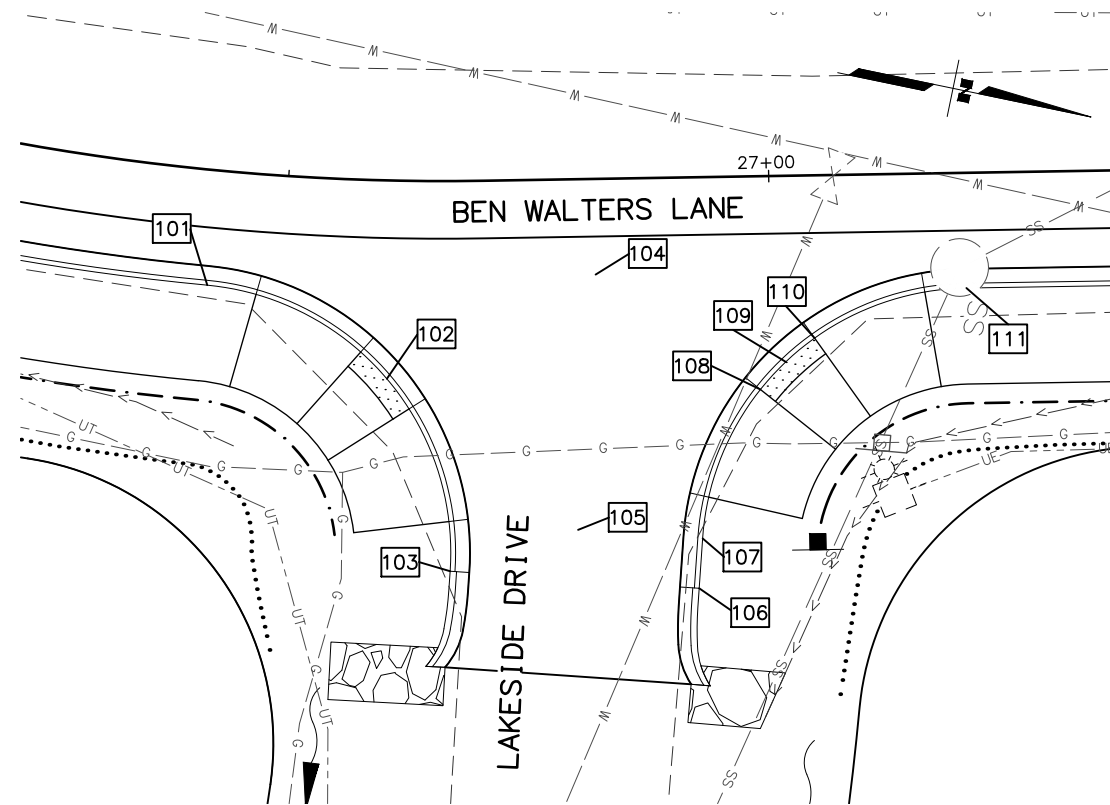
CITY OF HOMER  
PUBLIC WORKS DEPARTMENT

**BEN WALTERS LANE  
SIDEWALK IMPROVEMENTS**

DETAILS

HDL ENGINEERING CONSULTANTS, LLC  
3335 ARCTIC BOULEVARD, STE 100  
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NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0798-XXXX	2024	E3	E3

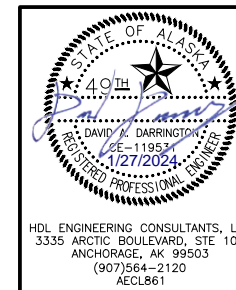


LAYOUT SCHEDULE				
POINT	STATION	OFFSET	ELEVATION	REMARKS
101	26+42.61	12.00 RT	82.61	TBC, TYPE 1, PC, R=28'
102	26+60.68	20.65 RT	82.67	TBC, ADA CURB AND GUTTER, CURB RAMP
103	26+66.73	40.63 RT	83.53	TBC, TYPE 1, PT, BEGIN CURB TERMINATION
104	26+81.81	9.96 RT	83.45	SIDESTREET CENTERLINE
105	26+79.55	36.52 RT	83.62	SIDESTREET CENTERLINE
106	26+92.06	42.81 RT	84.07	TBC, TYPE 1, BEGIN CURB TERMINATION
107	26+92.50	37.62 RT	84.21	TBC, TYPE 1, PC, R=28'
108	26+98.78	22.21 RT	84.00	TBC, ADA CURB AND GUTTER
109	27+01.46	19.38 RT	84.50	TBC, ADA CURB AND GUTTER, CURB RAMP
110	27+04.50	16.95 RT	84.08	TBC, ADA CURB AND GUTTER, CURB TRANSITION
111	27+20.40	12.00 RT	85.13	TBC, TYPE 1, PT
201	31+49.40	12.00 RT	104.44	TBC, TYPE 1, PC, R=28'
202	31+67.98	18.95 RT	104.47	TBC, ADA CURB AND GUTTER, CURB RAMP
203	31+74.43	26.85 RT	104.77	TBC, TYPE 1
204	31+77.63	36.31 RT	104.40	TBC, TYPE 1, PT
205	31+79.50	48.87 RT	103.89	TBC, TYPE 1, BEGIN CURB TERMINATION
206	31+87.10	10.00 RT	105.22	SIDESTREET CENTERLINE
207	31+89.24	24.03 RT	104.79	SIDESTREET CENTERLINE
208	32+06.19	44.90 RT	104.36	TBC, TYPE 1, PC, R=28', BEGIN CURB TERMINATION
209	32+10.41	25.07 RT	105.58	TBC, ADA CURB AND GUTTER
210	32+12.78	21.95 RT	105.66	TBC, ADA CURB AND GUTTER, CURB RAMP
211	32+15.56	19.17 RT	105.74	TBC, ADA CURB AND GUTTER, CURB TRANSITION
212	32+34.73	12.00 RT	107.48	TBC, TYPE 1, PT

DESIGNED BY: \_\_\_\_\_  
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 DRAFTED BY: \_\_\_\_\_

SCALE: \_\_\_\_\_  
 TIME: \_\_\_\_\_  
 DATE: \_\_\_\_\_

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CITY OF HOMER  
 PUBLIC WORKS DEPARTMENT

**BEN WALTERS LANE  
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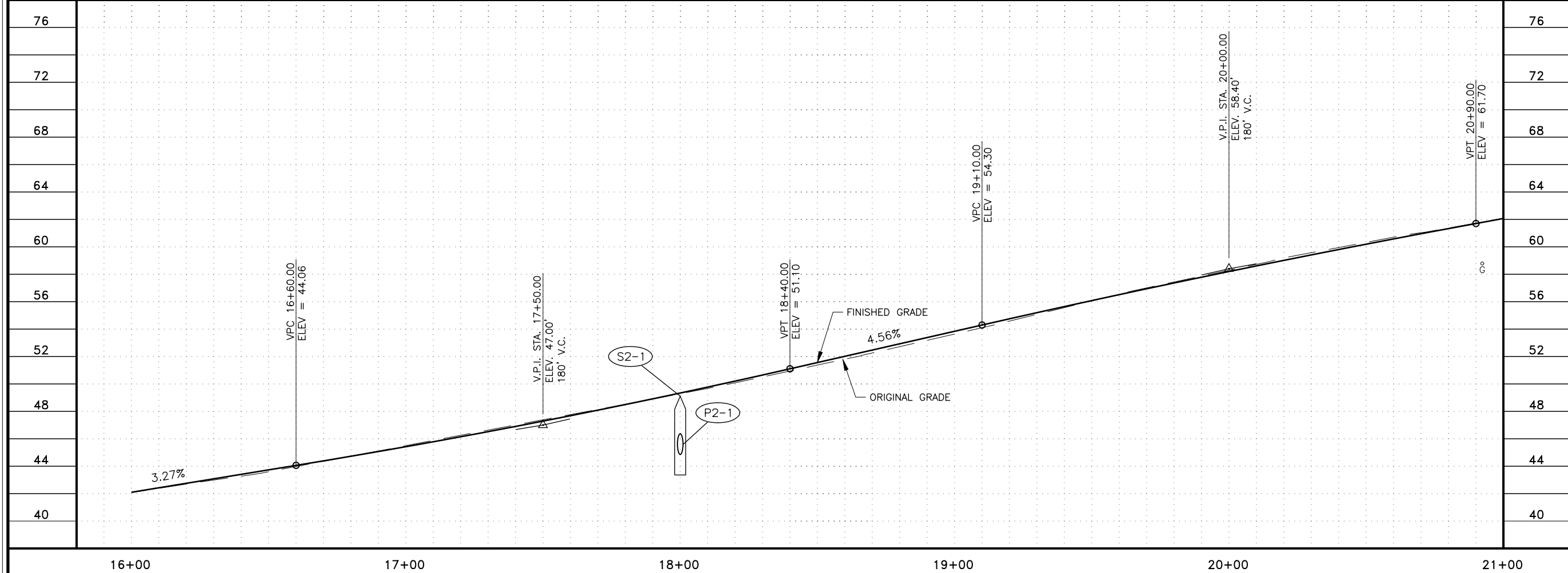
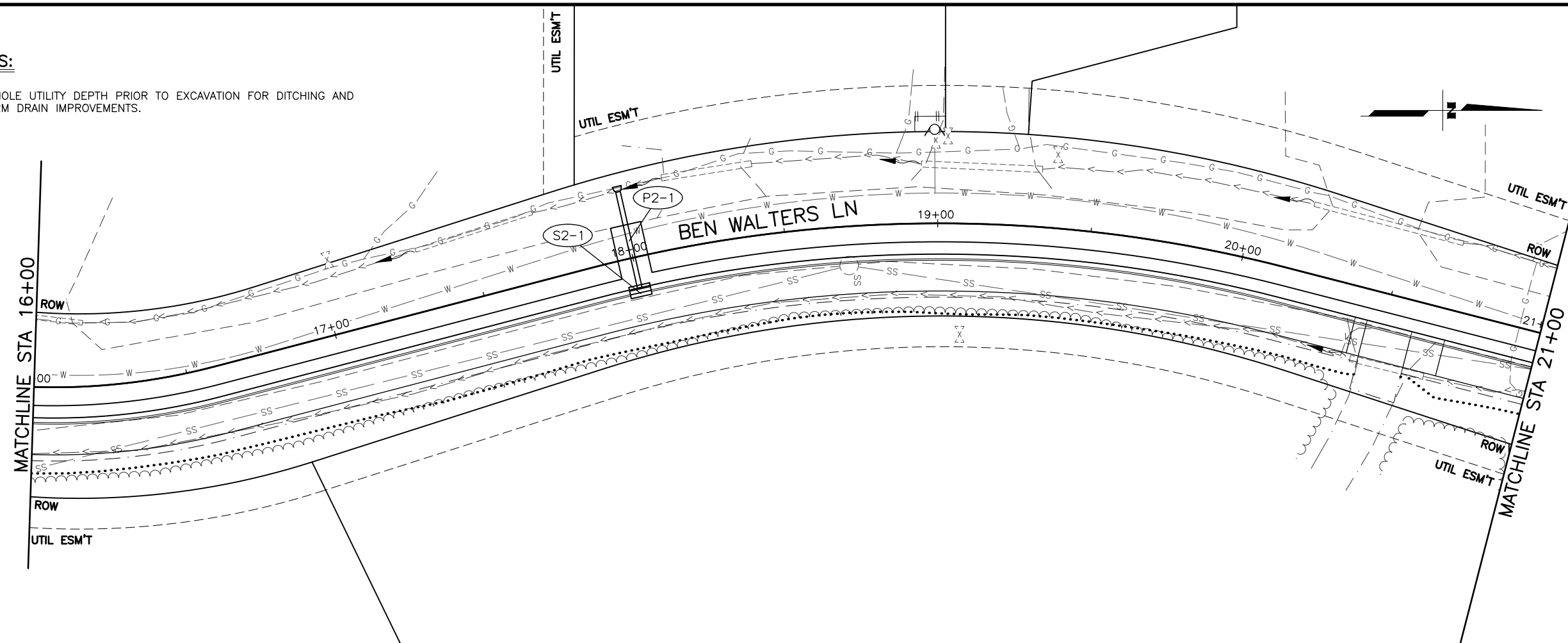
**APPROACH DETAILS**



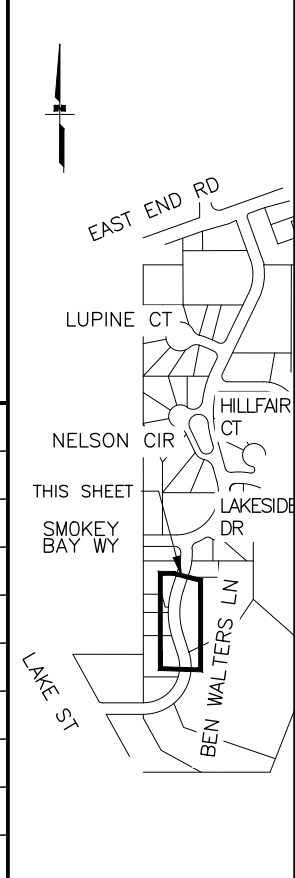
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 CHECKED BY: NMO  
 DRAFTED BY: WP

**NOTES:**

1. POT HOLE UTILITY DEPTH PRIOR TO EXCAVATION FOR DITCHING AND STORM DRAIN IMPROVEMENTS.



SHEET NO.	TOTAL SHEETS
F2	F7
YEAR	
2024	
PROJECT DESIGNATION	
160-0798-XXXX	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



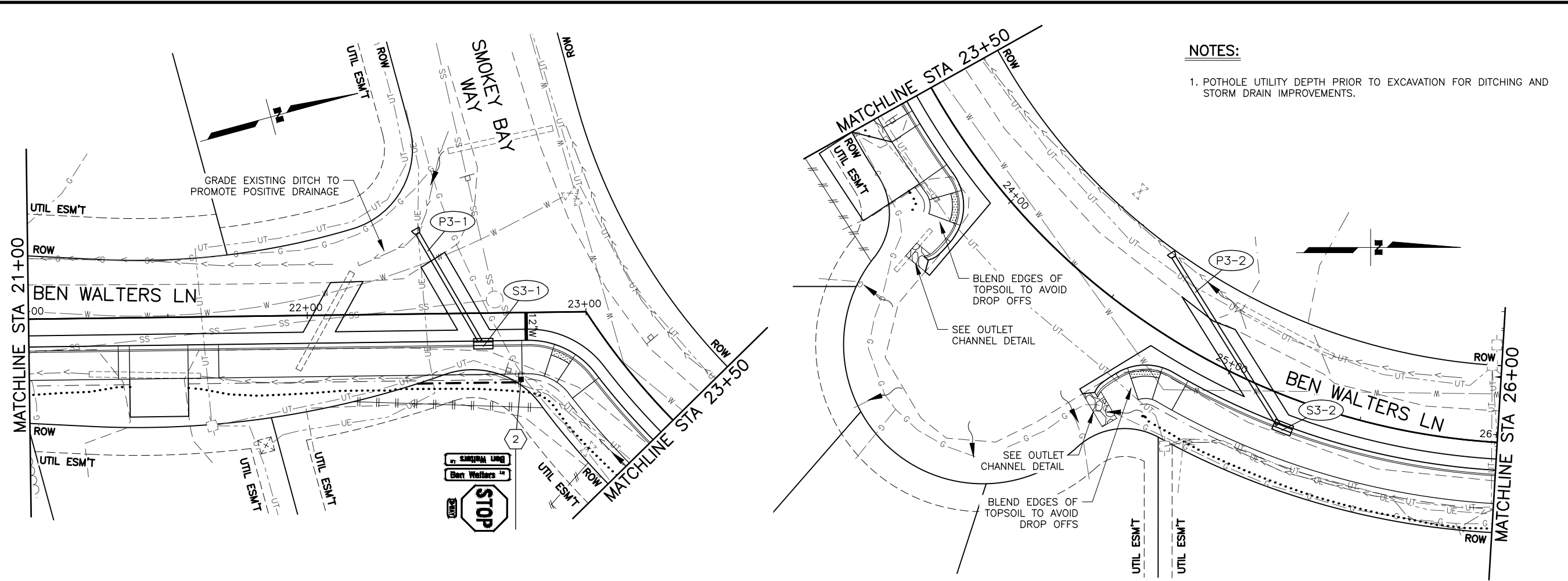
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CITY OF HOMER  
**BEN WALTERS LANE IMPROVEMENTS**

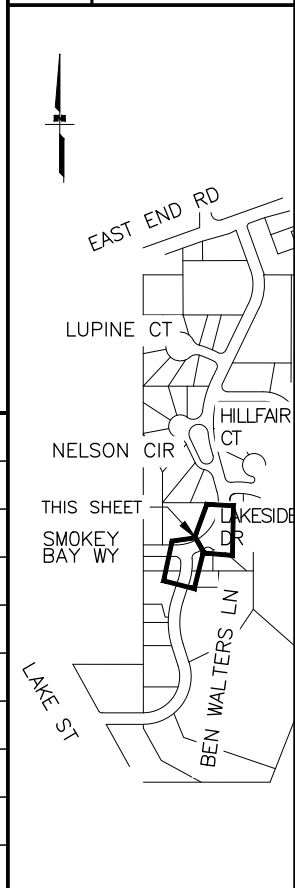
PLAN VIEW  
 STA 16+00 TO STA 21+00



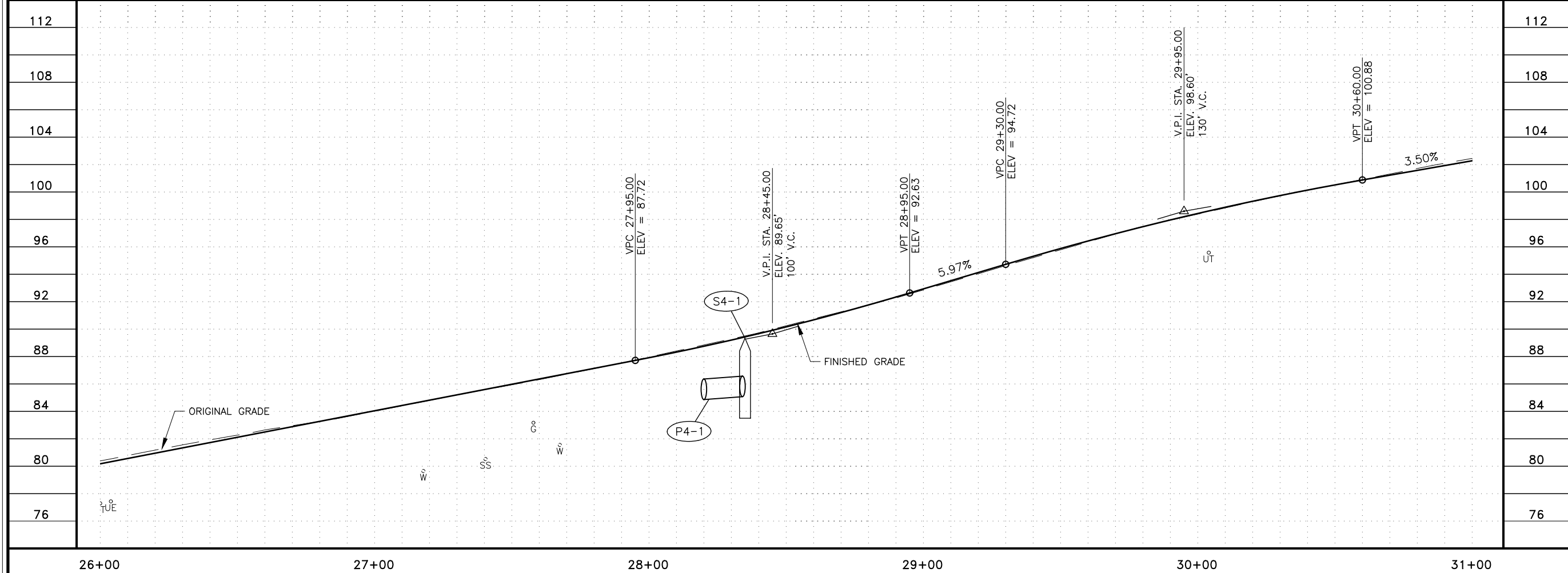
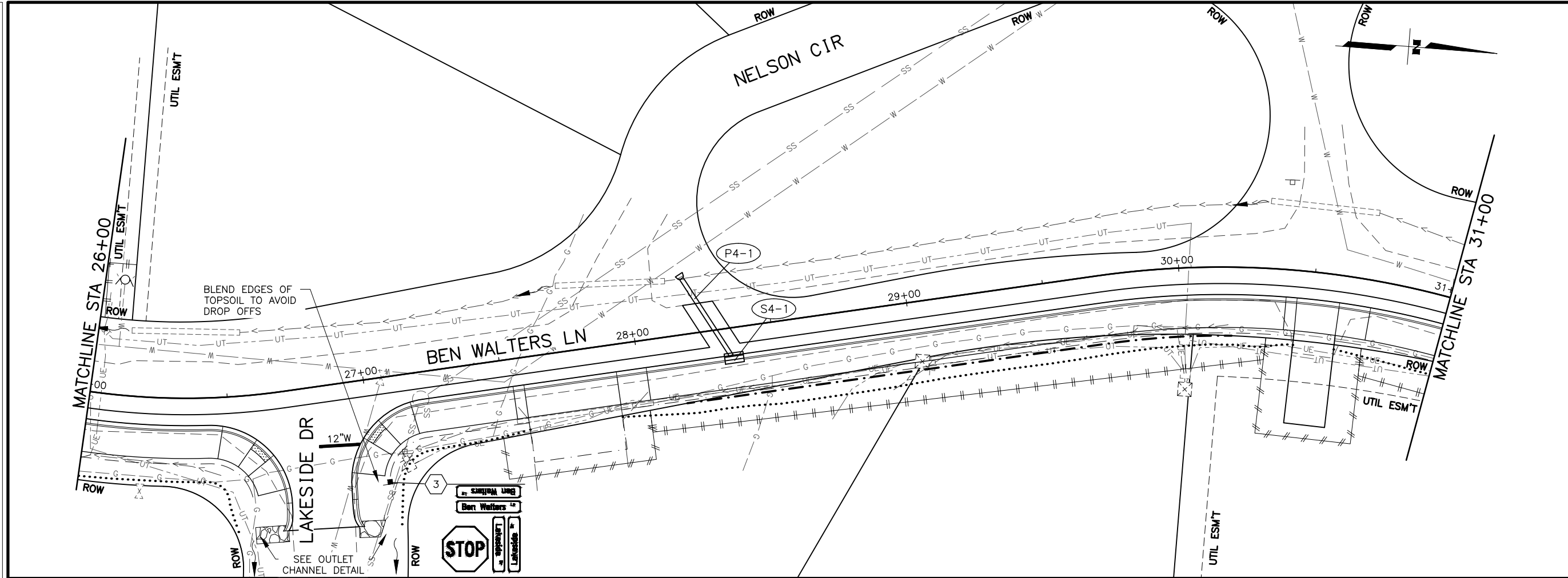
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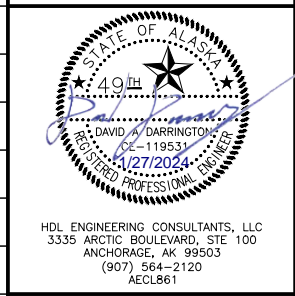
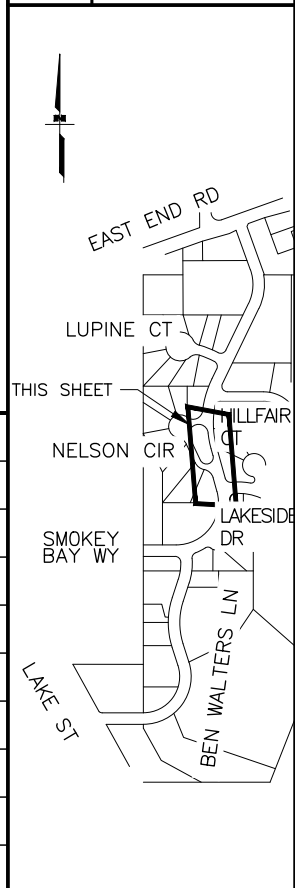
SHEET NO.	TOTAL SHEETS
F3	F7
YEAR	
2024	
PROJECT DESIGNATION	
160-0798-XXXX	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



H:\JOBS\17-014\_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE SIDEWALK\CAD\DRAWINGS\17014\_04\_F01-F07.DWG  
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 DESIGNED BY: NMO  
 CHECKED BY: NMO  
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SHEET NO.	TOTAL SHEETS
F4	F7
YEAR	
2024	
PROJECT DESIGNATION	
160-0798-XXXX	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

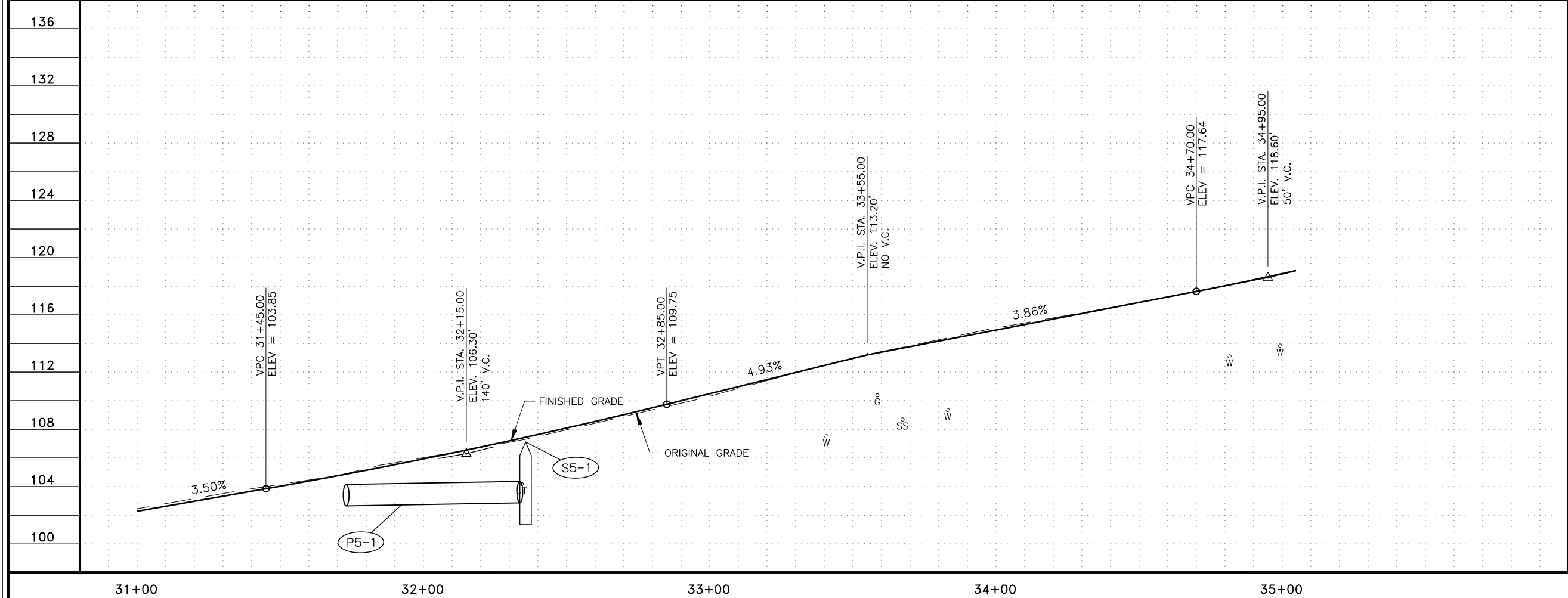
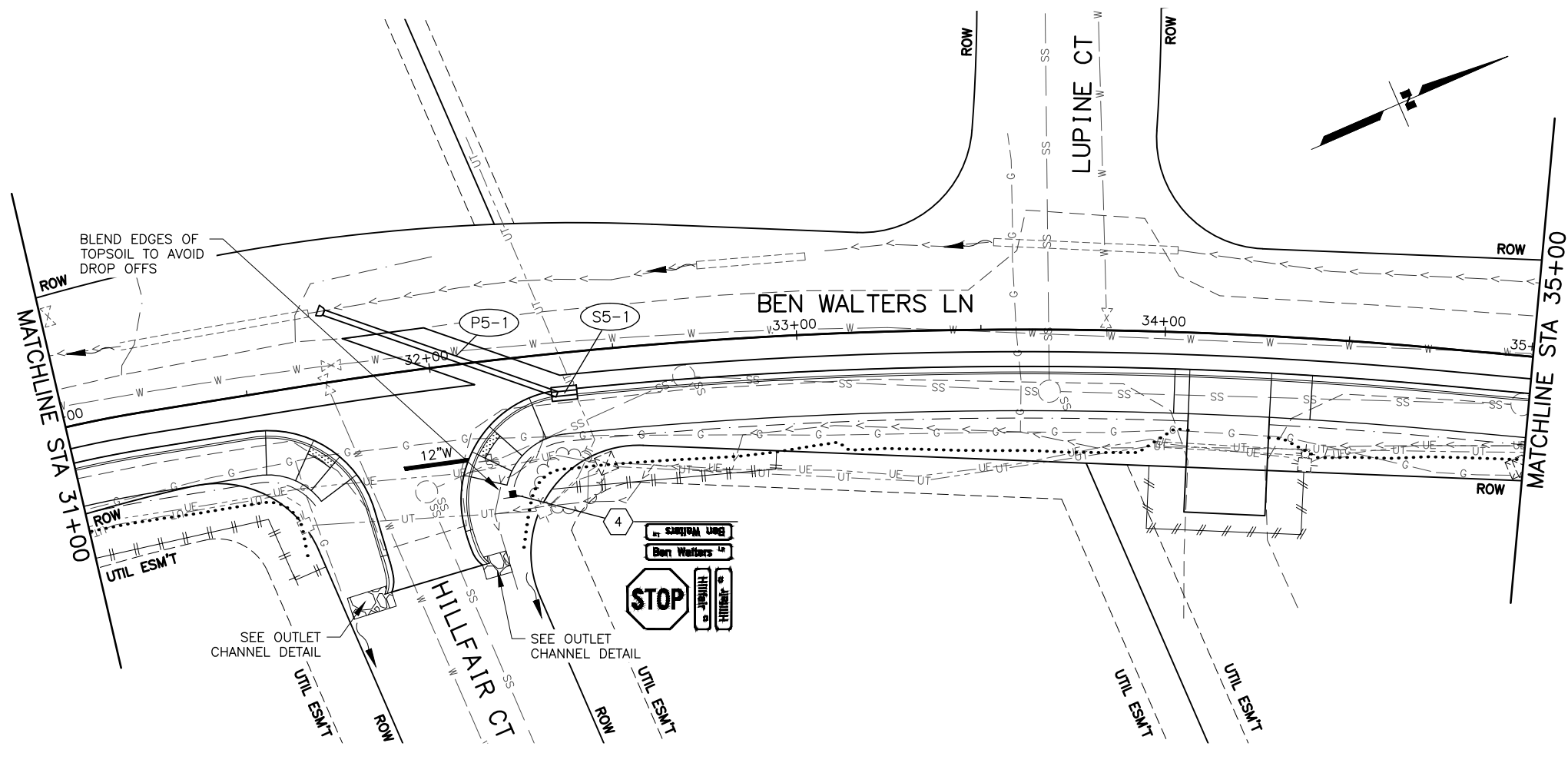


HDL ENGINEERING CONSULTANTS, LLC  
 3335 ARCTIC BOULEVARD, STE 100  
 ANCHORAGE, AK 99503  
 (907) 564-2120  
 AECL861

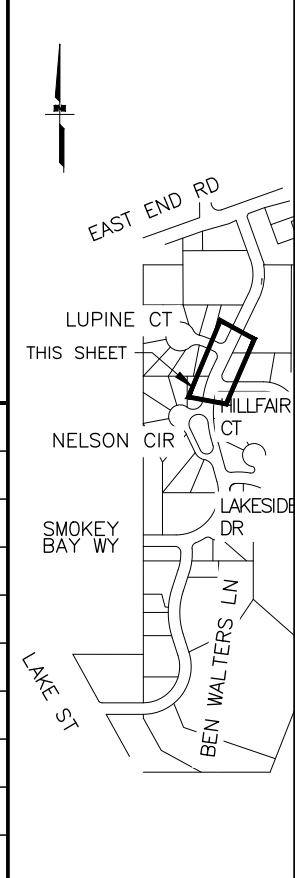
CITY OF HOMER  
**BEN WALTERS LANE IMPROVEMENTS**

PLAN VIEW  
 STA 26+00 TO STA 31+00

H:\JOBS\17-014\_HOMER\_ROADS\_DRAINAGE\_AND\_TRAILS\_TERM (HOMER)\TASK 4 - BEN WALTERS LANE  
 SIDEWALK CAD\DRAWINGS\17014\_04\_F01-F07.DWG  
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SHEET NO.	TOTAL SHEETS
F5	F7
YEAR	
2024	
PROJECT DESIGNATION	
160-0798-XXXX	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

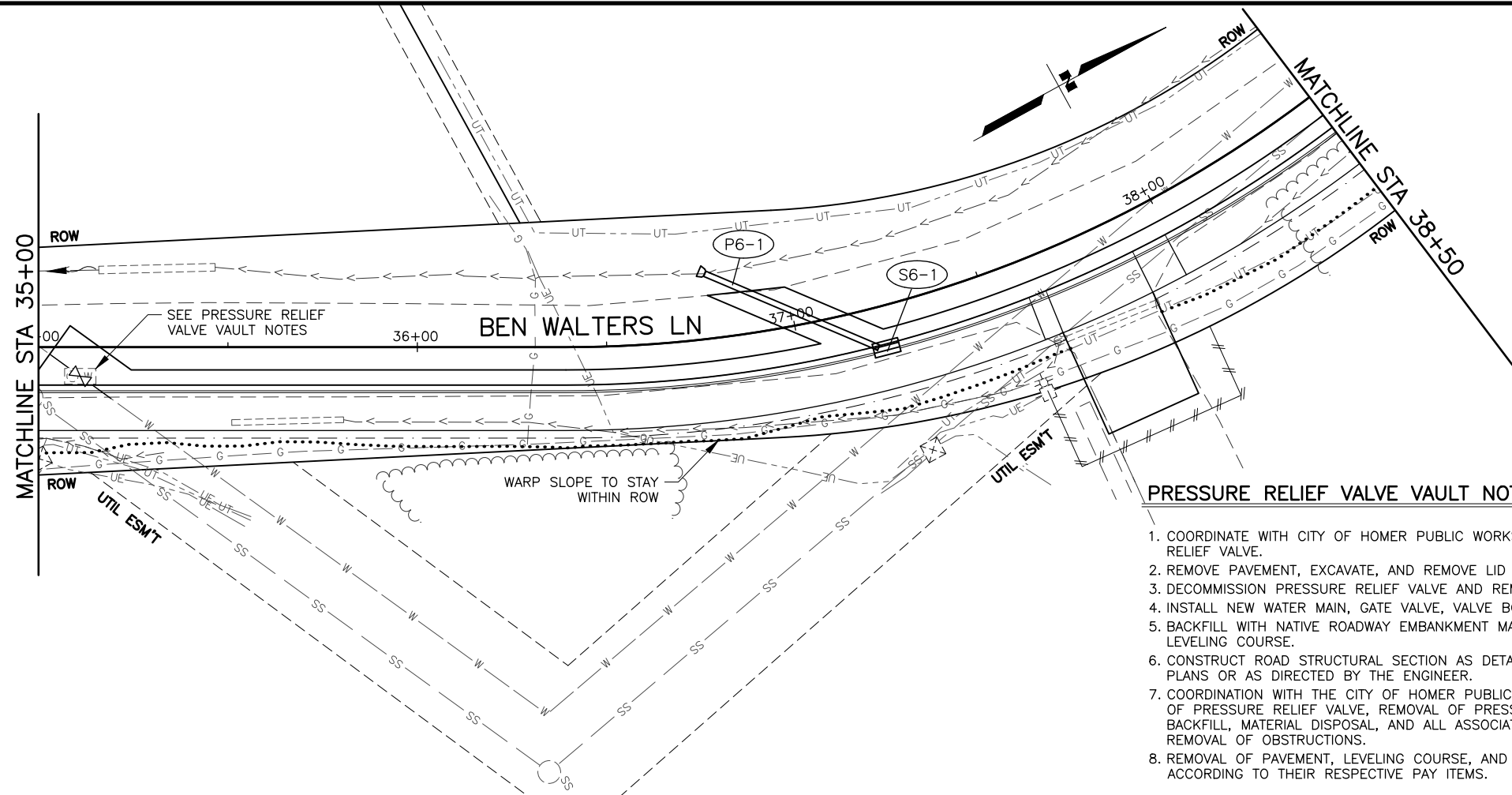


STATE OF ALASKA  
 49th  
 DAVID J. BARRINGTON  
 66-119531  
 427206  
 REGISTERED PROFESSIONAL ENGINEER

HDL ENGINEERING CONSULTANTS, LLC  
 3335 ARCTIC BOULEVARD, STE 100  
 ANCHORAGE, AK 99503  
 (907) 564-2120  
 AECL861

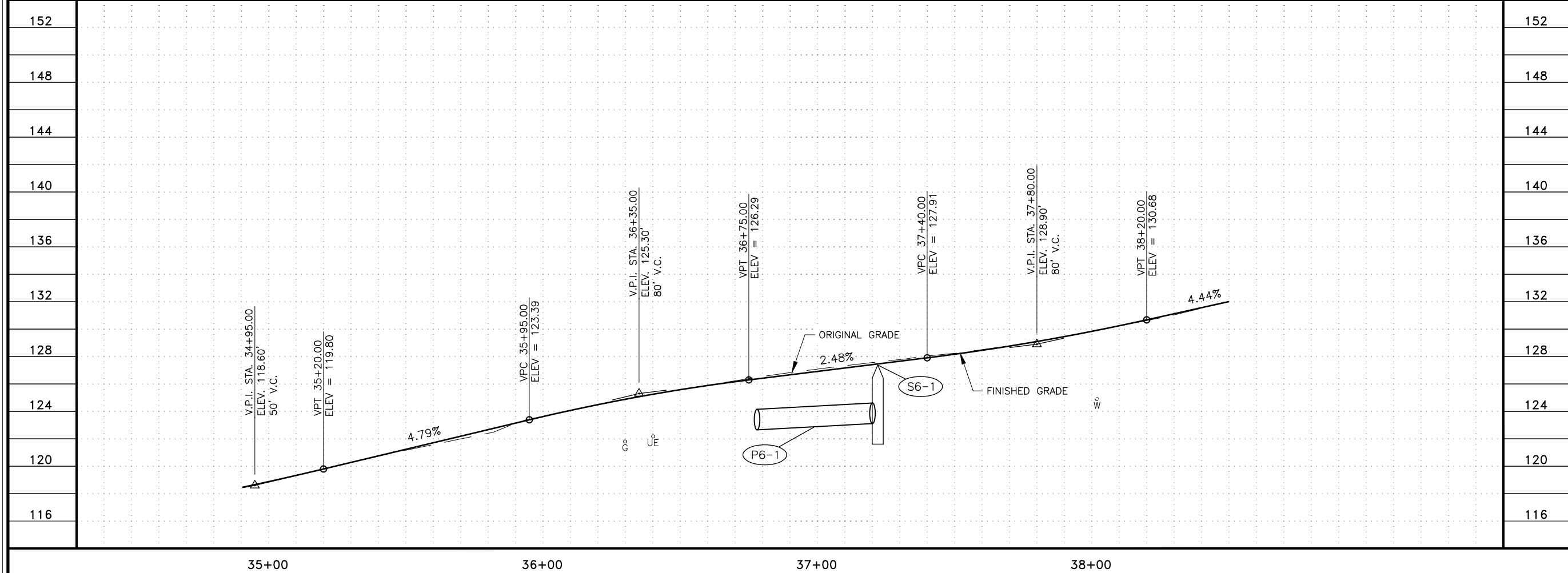
CITY OF HOMER  
**BEN WALTERS LANE IMPROVEMENTS**  
 PLAN VIEW  
 STA 31+00 TO STA 35+00

H:\JOBS\17-014\_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE SIDEWALK\CAD\DRAWINGS\17014\_04\_F01-F07.DWG  
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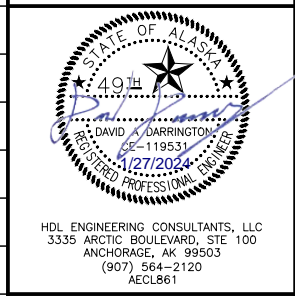
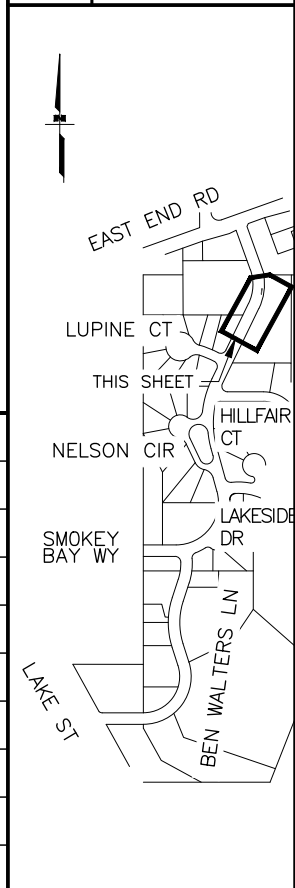


**PRESSURE RELIEF VALVE VAULT NOTES:**

1. COORDINATE WITH CITY OF HOMER PUBLIC WORKS TO SHUT OFF WATER TO THE PRESSURE RELIEF VALVE.
2. REMOVE PAVEMENT, EXCAVATE, AND REMOVE LID OF VAULT.
3. DECOMMISSION PRESSURE RELIEF VALVE AND REMOVE PRESSURE RELIEF VALVE AND VAULT.
4. INSTALL NEW WATER MAIN, GATE VALVE, VALVE BOX, AND MARKER.
5. BACKFILL WITH NATIVE ROADWAY EMBANKMENT MATERIAL TO DEPTH OF BOTTOM OF LEVELING COURSE.
6. CONSTRUCT ROAD STRUCTURAL SECTION AS DETAILED IN THE TYPICAL SECTION OF THESE PLANS OR AS DIRECTED BY THE ENGINEER.
7. COORDINATION WITH THE CITY OF HOMER PUBLIC WORKS, EXCAVATION, DECOMMISSIONING OF PRESSURE RELIEF VALVE, REMOVAL OF PRESSURE RELIEF VALVE, REMOVAL OF VAULT, BACKFILL, MATERIAL DISPOSAL, AND ALL ASSOCIATED WORK IS SUBSIDIARY TO 203 REMOVAL OF OBSTRUCTIONS.
8. REMOVAL OF PAVEMENT, LEVELING COURSE, AND ASPHALT PAVEMENT SHALL BE PAID FOR ACCORDING TO THEIR RESPECTIVE PAY ITEMS.



SHEET NO.	TOTAL SHEETS
F6	F7
YEAR	
2024	
PROJECT DESIGNATION	
160-0798-XXXX	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



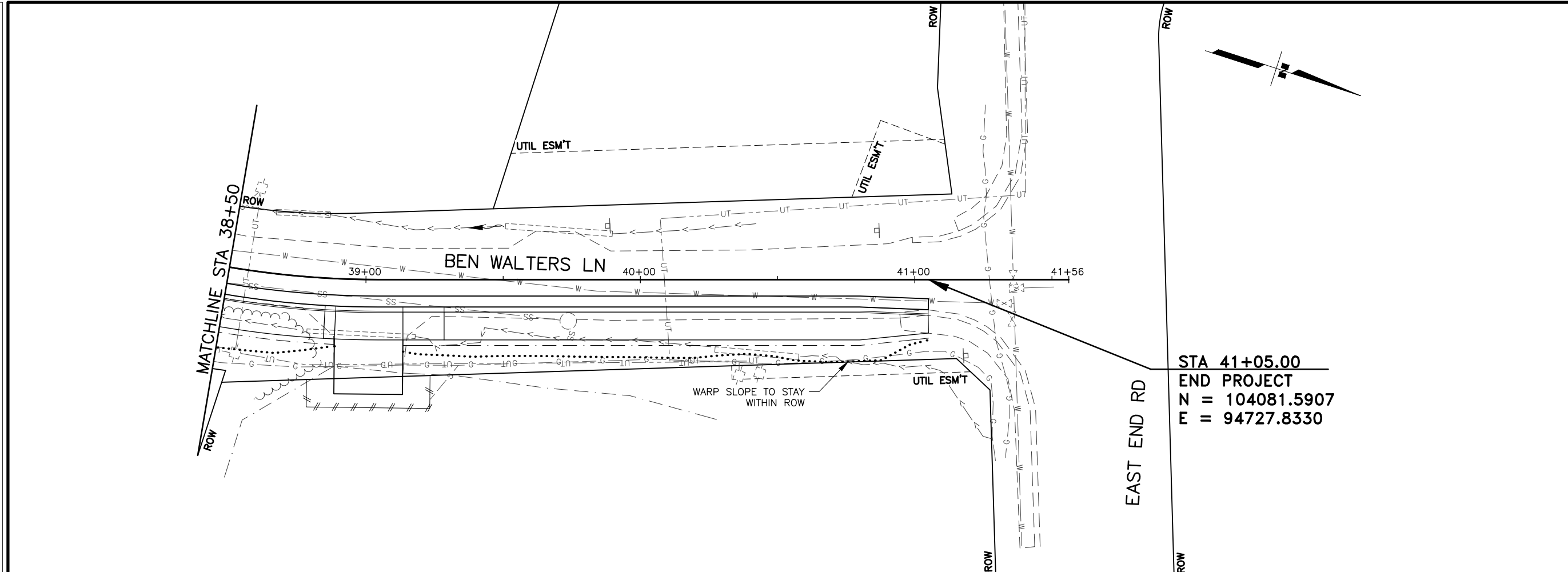
HDL ENGINEERING CONSULTANTS, LLC  
 3335 ARCTIC BOULEVARD, STE 100  
 ANCHORAGE, AK 99503  
 (907) 564-2120  
 AECL861

CITY OF HOMER  
**BEN WALTERS LANE IMPROVEMENTS**

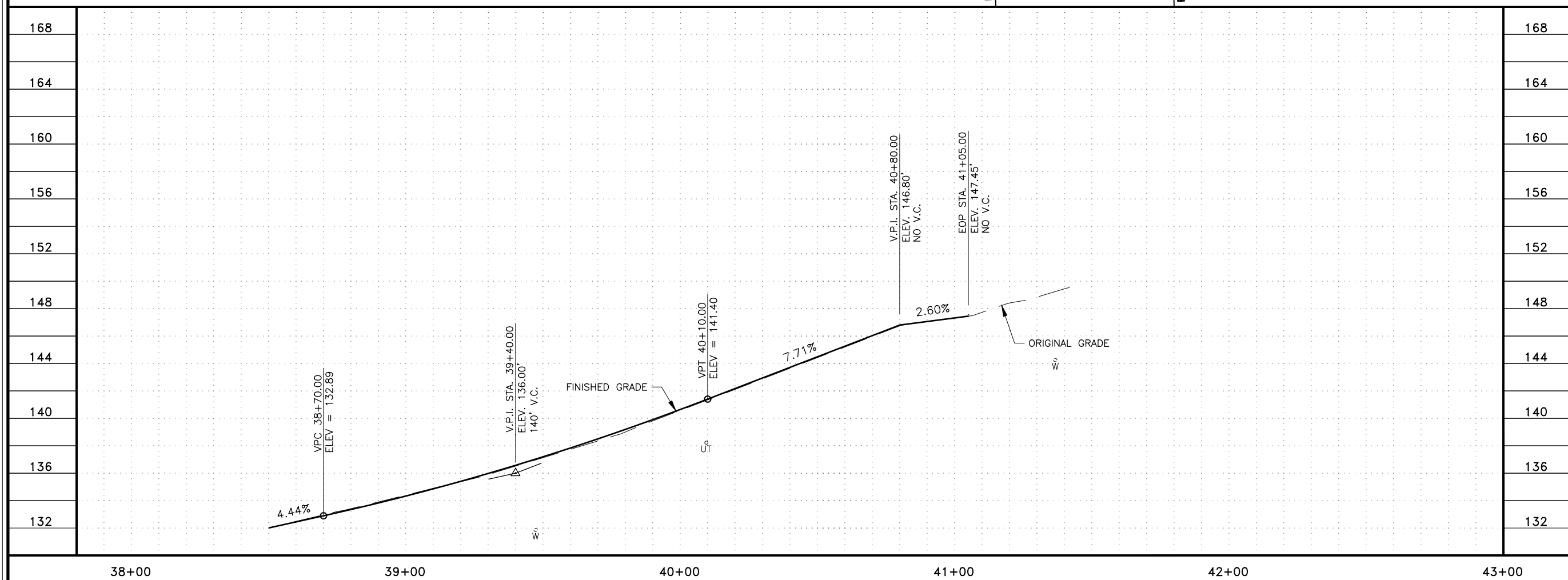
PLAN VIEW  
 STA 35+00 TO STA 38+50

H:\JOBS\17-014\_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE SIDEWALK\CAD\DRAWINGS\17014\_04\_F01-F07.DWG

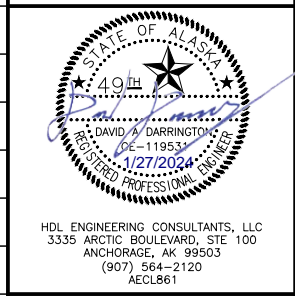
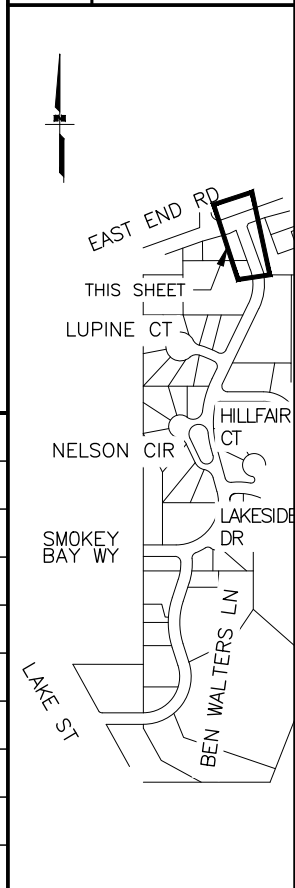
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 CHECKED BY: NMO  
 DRAFTED BY: WP



STA 41+05.00  
 END PROJECT  
 N = 104081.5907  
 E = 94727.8330



SHEET NO.	TOTAL SHEETS
F7	F7
YEAR	
2024	
PROJECT DESIGNATION	
160-0798-XXXX	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



HDL ENGINEERING CONSULTANTS, LLC  
 3335 ARCTIC BOULEVARD, STE 100  
 ANCHORAGE, AK 99503  
 (907) 564-2120  
 AECL861

CITY OF HOMER  
 BEN WALTERS LANE IMPROVEMENTS

PLAN VIEW  
 STA 38+50 TO EOP

DESIGNED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DRAFTED BY: \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
 TIME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 H:\JOBS\17-014 HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE  
 SIDEWALK\CAD\DRAWINGS\17014\_04\_H01.DWG

NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0798-XXXX	2024	H1	H4

**SIGNING & STRIPING NOTES:**

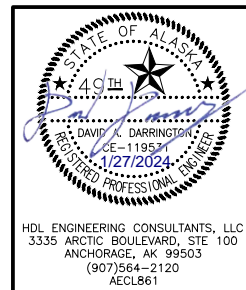
1. ALL STATION AND OFFSET LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS PER THE STANDARD PLANS OR AS DIRECTED BY THE ENGINEER.
2. USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN POST TYPES IN THE SIGN SUMMARY SHEETS.
  - A. PT MEANS A PERFORATED STEEL TUBE.
  - B. T MEANS A SQUARE STEEL TUBE.
  - C. P MEANS A ROUND STEEL PIPE.
  - D. W MEANS A WIDE FLANGE BEAM.
  - E. POPL MEANS A POLE PLATE INSTALLED PER STANDARD PLANS.
3. FABRICATE ALL SIGNS FROM 0.125-IN THICK ALUMINUM SHEETING, UNLESS STATED ELSEWHERE.
4. FOR SIGNS SUPPORTED BY MULTIPLE POSTS, FABRICATE THE POSTS WITH THEIR TOPS LEVEL WITH ONE ANOTHER.
5. FOR PERFORATED STEEL TUBE SIGNPOSTS, INSTALL THE CONCRETE FOUNDATION OPTION SHOWN IN THE STANDARD PLANS. TRIM EACH PT POST TO LIMIT THE LENGTH INSERTED INTO THE FOUNDATION TO 12-IN.
6. FABRICATE GUIDE SIGNS ACCORDING TO THE SHOP DRAWINGS INCLUDED IN THE APPENDICES OF PART 4, CONTRACT PROVISIONS AND SPECIAL PROVISIONS. TRIM THE CORNERS OF ALL SIGNS TO THE RADIUS SHOWN ON EACH SHOP DRAWING.
7. ERECT NEW SIGNS BEFORE REMOVAL OF EXISTING SIGNS WITH SIMILAR MESSAGE. NOTIFY THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO BEGINNING SIGN REMOVAL AND SALVAGE OR DISPOSAL ACTIVITIES.
8. FOR SIGNS SUPPORTED BY MULTIPLE TUBES OR PIPES, LOCATE THE OUTER POSTS ON MAXIMUM 6-FT CENTERS. INSTALL ADJACENT WIDE FLANGE POSTS ON MINIMUM 8-FT CENTERS.
9. SELECTIVE HAND CLEARING SHALL BE PERFORMED AT THE DISCRETION OF THE ENGINEER, IAW SECTION 201, UPSTREAM OF ALL SIGN INSTALLATION LOCATIONS TO ACHIEVE MINIMUM SIGN VISIBILITY REQUIREMENTS. IF NOT INCLUDED AS A SEPARATE ITEM, THIS WORK SHALL BE SUBSIDIARY TO THE SIGN INSTALLATION ITEMS AND WORK.
10. ALL FINAL PAVEMENT MARKINGS SHALL BE SURFACE APPLIED AS SPECIFIED IN SECTION 402 OF THE SPECIFICATIONS.

**CALL BEFORE YOU DIG!**  
 CONTRACTOR SHALL CALL A MINIMUM OF  
 3 DAYS IN ADVANCE OF CONSTRUCTION

---

ALASKA DIGLINE....907-278-3121 OR 800-478-3121

CALL OR GO TO [WWW.AKONECALL.COM/STATEWIDE.HTM](http://WWW.AKONECALL.COM/STATEWIDE.HTM)  
 FOR MEMBER LIST OF WHO WILL BE NOTIFIED



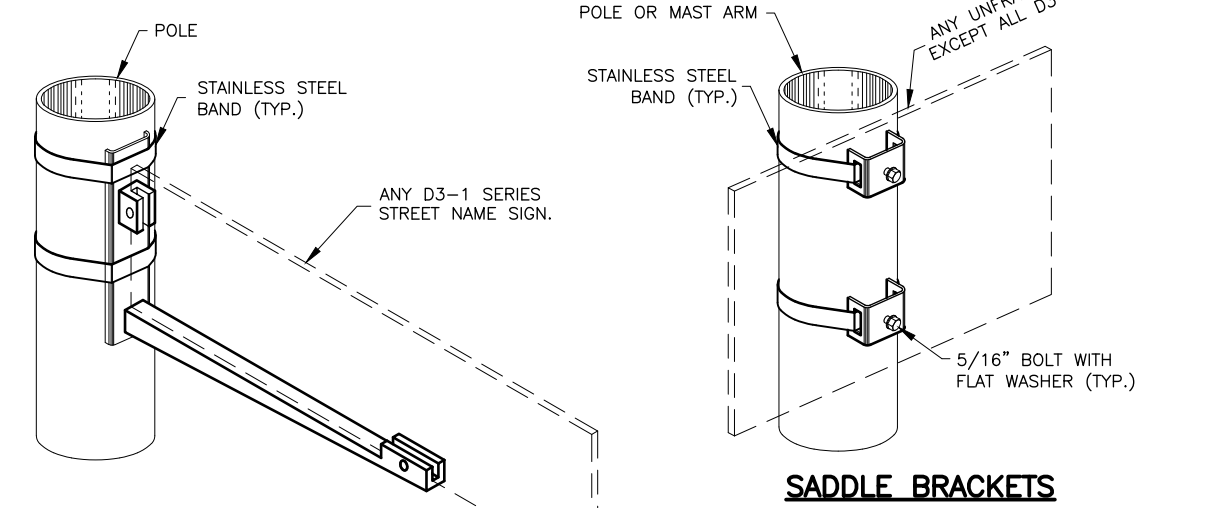
CITY OF HOMER  
 PUBLIC WORKS DEPARTMENT

**BEN WALTERS LANE  
 SIDEWALK IMPROVEMENTS**

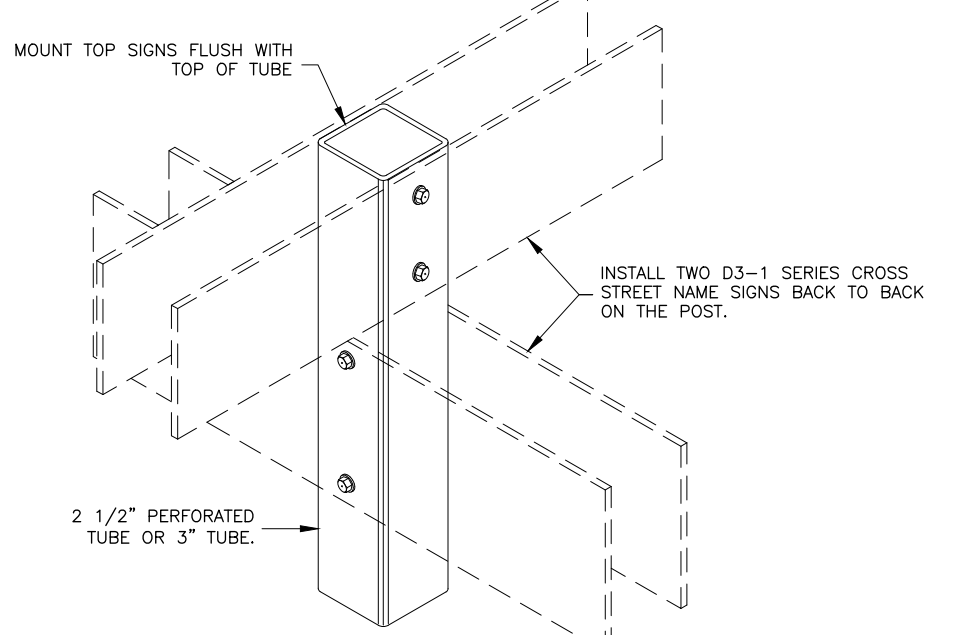
TRAFFIC LEGEND AND NOTES

NO.	DATE	REVISION

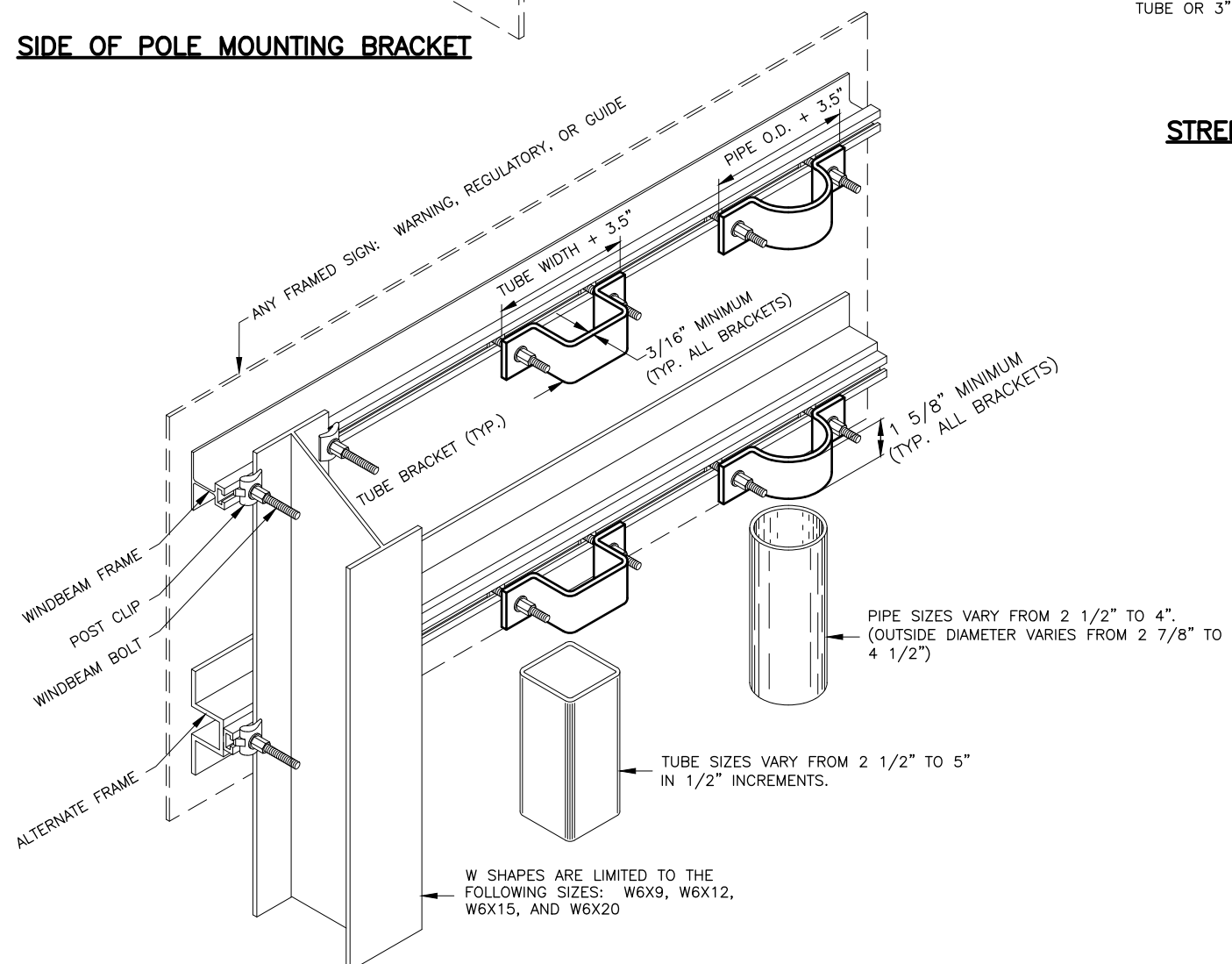
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
160-0798-XXXX	2024	H2	H4



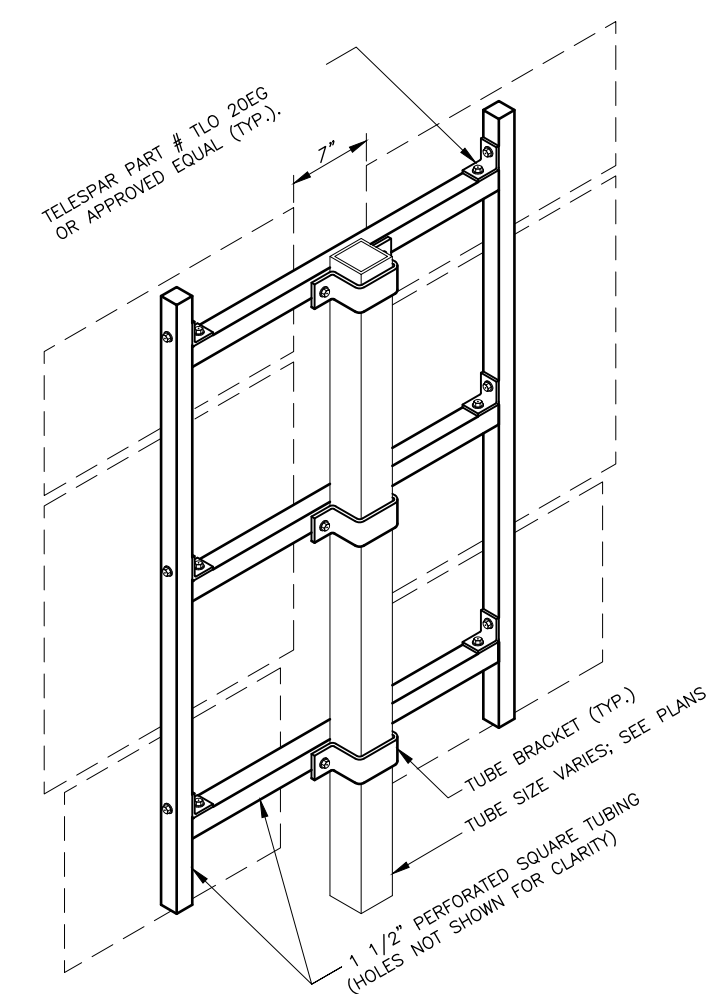
**SIDE OF POLE MOUNTING BRACKET**



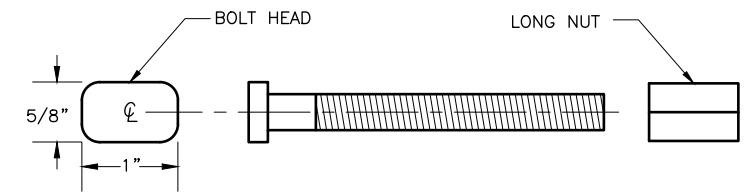
**STREET NAME SIGN INSTALLATION**



**FRAMED SIGN ATTACHMENT BRACKETS**



**ROUTE MARKER TREE**

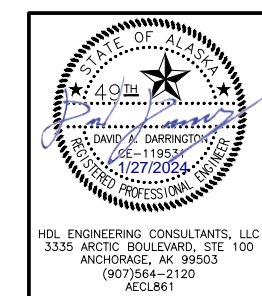


**3/8" WINDBEAM BOLT AND LONG NUT**

**NOTES:**

- EXCEPT FOR POLES AND MAST ARMS, ONLY USE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
- ATTACH SIGNS, FRAMED AND UNFRAMED TO THEIR SUPPORTS WITH ZINC PLATED 3/8-IN BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PERFORATED TUBES WITH ACCESSORY DRIVE RIVETS AND TO SADDLES WITH 5/16-IN BOLTS.
- BOLT UNFRAMED SIGNS DIRECTLY TO TUBES IN TWO LOCATIONS, NEAR TOP AND NEAR BOTTOM OF MATING SURFACE. ATTACH THEM TO POLES AND MAST ARMS WITH TWO SADDLES.
- ATTACH BRACKETS TO POLES AND MAST ARMS WITH DOUBLE WRAPS OF 3/4-IN WIDE BY 0.020-IN THICK STAINLESS STEEL BANDING MATERIAL. TIGHTEN EACH BAND UNTIL IT STOPS MOVING THROUGH THE BUCKLE.
- ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES, AND A BRACKET WITH SQUARE CORNERS ON TUBES.
- THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2-IN SMALLER IN SIZE.
- ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL.
- ATTACH FRAMED SIGNS TO POLES AND MAST ARMS USING POLE PLATES INSTALLED ACCORDING TO THE STANDARD PLANS.
- FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
- INSTALL THE TOP EDGE OF SIGNS 1-IN ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
- INSTALL THE TOP EDGE OF SIGNS 3-IN BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
- THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
- INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.

FASTENER SPECIFICATION TABLE		
FASTENERS	STEEL	STAINLESS STEEL
BOLTS	ASTM A 307	ASTM F 593
NUTS	REGULAR LOCK	ASTM A 563 ASTM F 594
WASHERS	ASTM A 36	ASTM A 480
POST CLIPS		



CITY OF HOMER  
PUBLIC WORKS DEPARTMENT

**BEN WALTERS LANE  
SIDEWALK IMPROVEMENTS**

**SIGN ATTACHMENT DETAIL**

HDL ENGINEERING CONSULTANTS, LLC  
3335 ARCTIC BOULEVARD, STE 100  
ANCHORAGE, AK 99503  
(907)564-2120  
AECL861

H:\JOBS\17-014 HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE SIDEWALK\CAD\DRAWINGS\17014\_04\_H02-H03.DWG

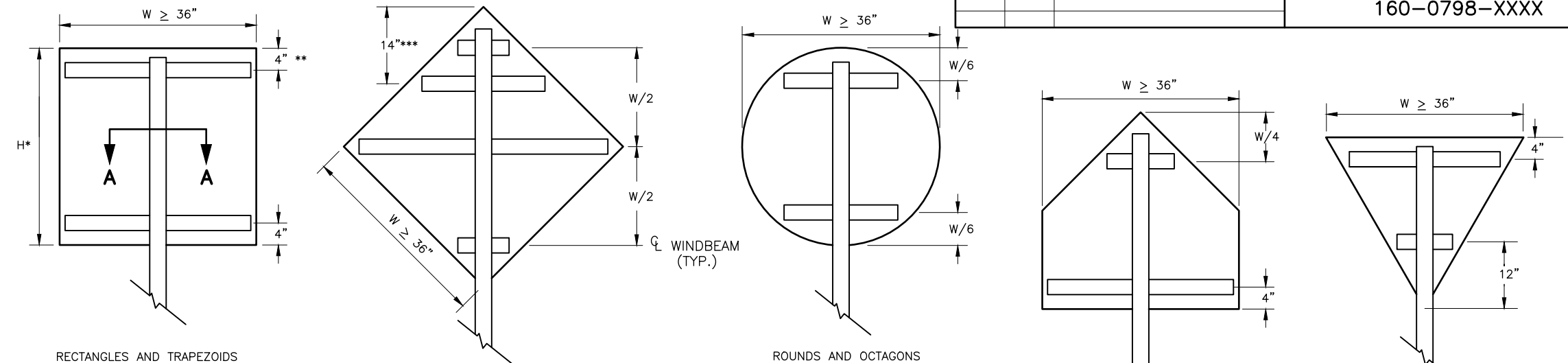
DESIGNED BY  
CHECKED BY  
DRAFTED BY

SCALE

TIME

DATE

NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0798-XXXX	2024	H3	H4



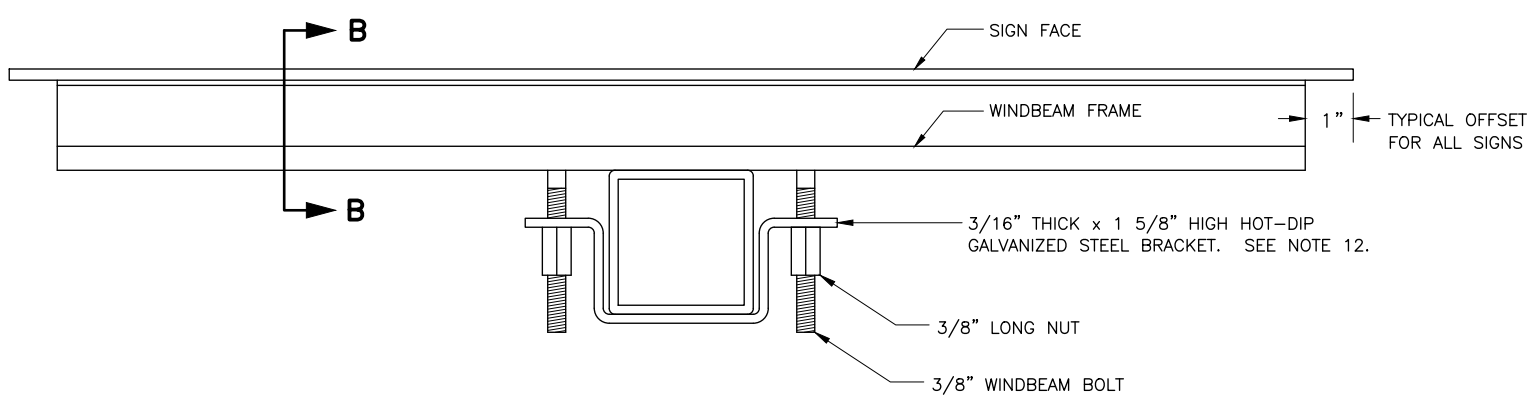
RECTANGLES AND TRAPEZOIDS

\* WHEN H > 42-IN, INSTALL A 3RD WINDBEAM CENTERED ON THE SIGN.

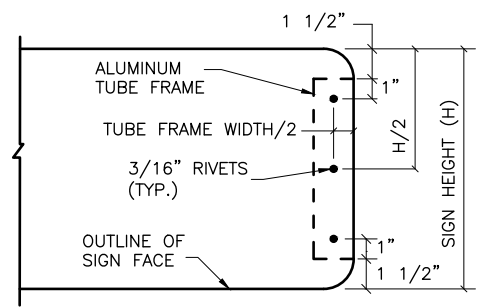
\*\* FOR S5-1 SIGNS MOUNTED ON FLASHING BEACON POSTS, USE A 10-IN OFFSET. OTHERWISE, USE 4-IN.

\*\*\* FOR WARNING SIGNS MOUNTED ON FLASHING BEACON POSTS, USE THE 14-IN OFFSET. OTHERWISE, USE W/2.

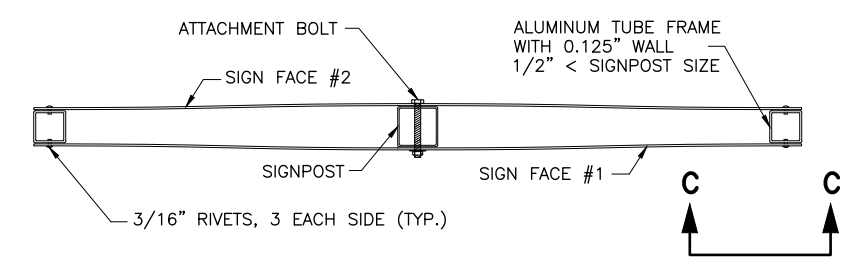
**WINDBEAM LOCATIONS FOR EACH SIGN SHAPE**  
ELEVATION VIEW



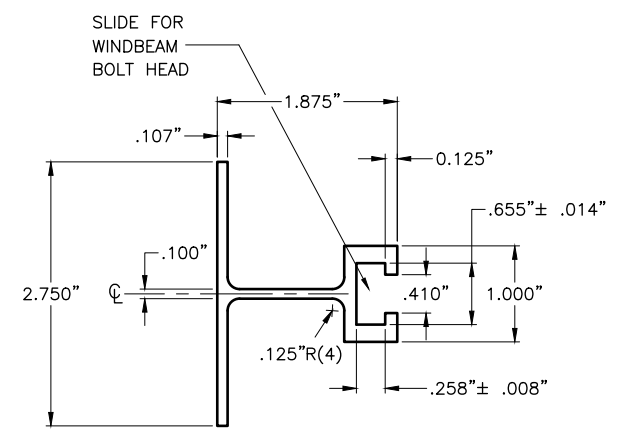
**SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM**



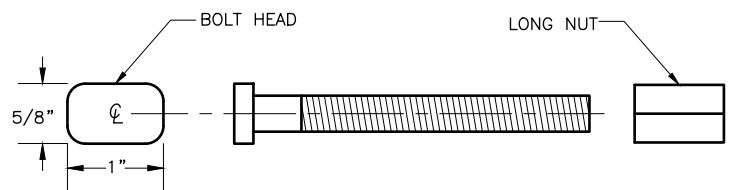
**VIEW C - C**



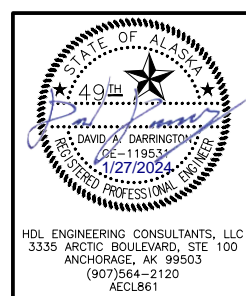
**D3-1 STREET NAME SIGN FRAMING DETAIL**  
PLAN VIEW



**SECTION B - B WINDBEAM CROSS SECTION**



**3/8\"/>**



CITY OF HOMER  
PUBLIC WORKS DEPARTMENT

**BEN WALTERS LANE  
SIDEWALK IMPROVEMENTS**












LIGHT SIGN FRAMING AND  
ATTACHMENT DETAIL

H:\JOBS\17-014\_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE SIDEWALK\CAD\DRAWINGS\17014\_04\_H02-H03.DWG  
 DESIGNED BY: [ ] CHECKED BY: [ ] DRAFTED BY: [ ]  
 SCALE: [ ] TIME: [ ] DATE: [ ]



DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_ DRAFTED BY: \_\_\_\_\_  
 SCALE: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 H:\JOBS\17-014 HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 4 - BEN WALTERS LANE SIDEWALK\CAD\DRAWINGS\17014\_04\_H04.DWG

NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0798-XXXX	2024	H4	H4

707 - STANDARD SIGNS														
SHEET NO.	POST NO.	STATION	CL REF.	TYPE	LEGEND	SIZE (IN)		AREA SQ FT	SIGN FACES	POSTS NO., SIZE, & TYPE	THICKNESS (IN)		REMARKS	
						WIDTH	HEIGHT				YES	NO		
F1	1	13+26.50	RT	W11-2		30	30	6.25	W	2.5" PT		0.125		
				R2-1		30	36	7.5	W				0.125	
F3	2	22+76.50	RT	D3-101		42	8	2.33	E/W	2.5" PT		0.125	TWO SIGNS BACK TO BACK	
				R1-1		30	30	6.25	S				0.125	
				SPECIAL		12	6	0.5	S				0.125	
F4	3	27+04.50	RT	D3-101		42	8	2.33	E/W	2.5" PT		0.125	TWO SIGNS BACK TO BACK	
				D3-101		36	8	2.00	N/S				0.125	TWO SIGNS BACK TO BACK
				R1-1		30	30	6.25	E				0.125	
F5	4	32+18.50	RT	D3-101		42	8	2.33	E/W	2.5" PT		0.125	TWO SIGNS BACK TO BACK	
				D3-101		30	8	1.67	N/S				0.125	TWO SIGNS BACK TO BACK
				R1-1		30	30	6.25	E				0.125	

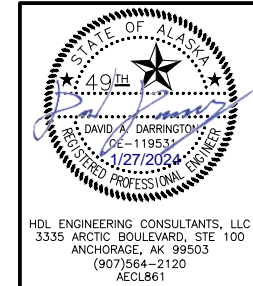
**GENERAL SIGNING NOTES**

- SIGN SIZES SHALL FOLLOW MANUAL ON UNIFORM TRAFFIC DEVICES REQUIREMENTS UNLESS SPECIFICALLY MODIFIED IN THE ALASKA TRAFFIC MANUAL.
- ALL PT POSTS SHALL BE INSTALLED WITH CONCRETE FOUNDATIONS.

707 - SALVAGE SIGN				
SHEET	STATION	OFFSET	TYPE	REMARKS
F1	13+26.50	RT	W11-2	PEDESTRIAN CROSSING
			R2-1	25 MPH
F3	22+72.00	RT	D3-101	BEN WALTERS LN
			R1-1	STOP
			SPECIAL	3-WAY
F4	27+11.50	RT	D3-101	BEN WALTERS LN
			D3-101	LAKESIDE RD
			R1-1	STOP
F5	32+13.00	RT	D3-101	BEN WALTERS LN
			D3-101	HILLFAIR CT
			R1-1	STOP

707 - REMOVE AND RELOCATE SIGN				
SHEET	STATION	OFFSET	TYPE	REMARKS
F1	13+05.00*	RT	SPECIAL	BENJAMIN O WALTERS SR MEMORIAL PARK

\*AS DIRECTED BY THE ENGINEER



CITY OF HOMER  
PUBLIC WORKS DEPARTMENT  
**BEN WALTERS LANE  
SIDEWALK IMPROVEMENTS**

**SIGN SUMMARY AND SALVAGE**

HDL ENGINEERING CONSULTANTS, LLC  
3335 ARCTIC BOULEVARD, STE 100  
ANCHORAGE, AK 99503  
(907)564-2120  
AECL861