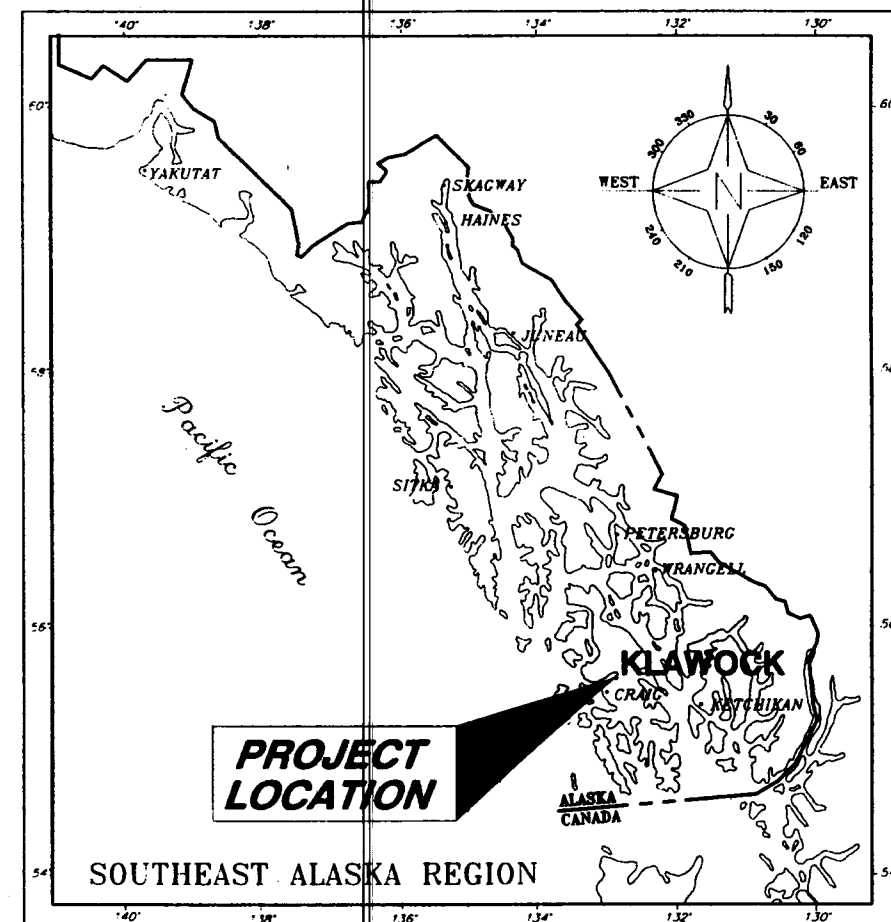




STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

KLAWOCK, ALASKA
KLAWOCK AIRPORT
SAND AND CHEMICAL
STORAGE BUILDING
PROJECT NO. 67998
A.I.P. No. 3-02-0154-0801

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
T1	COVER SHEET
T2	INFORMATION SHEET
C1	SITE PLAN
C2	SITE DETAILS
A1	FLOOR PLAN
A2	ROOF PLAN & DETAILS
A3	ELEVATIONS
A4	SECTIONS
A5	DETAILS
S1	STRUCTURAL GENERAL NOTES
S2	FOUNDATION PLAN
S3	FOUNDATION DETAILS
E1	SITE PLAN POWER & LIGHTING
E2	FLOOR PLAN POWER
E3	SINGLE LINE DIAGRAM/PANEL SCHEDULE
E4	FLOOR PLAN LIGHTING LUMINAIRE SCHEDULE

Q /KLW/67998 / Asbuilts

USKH

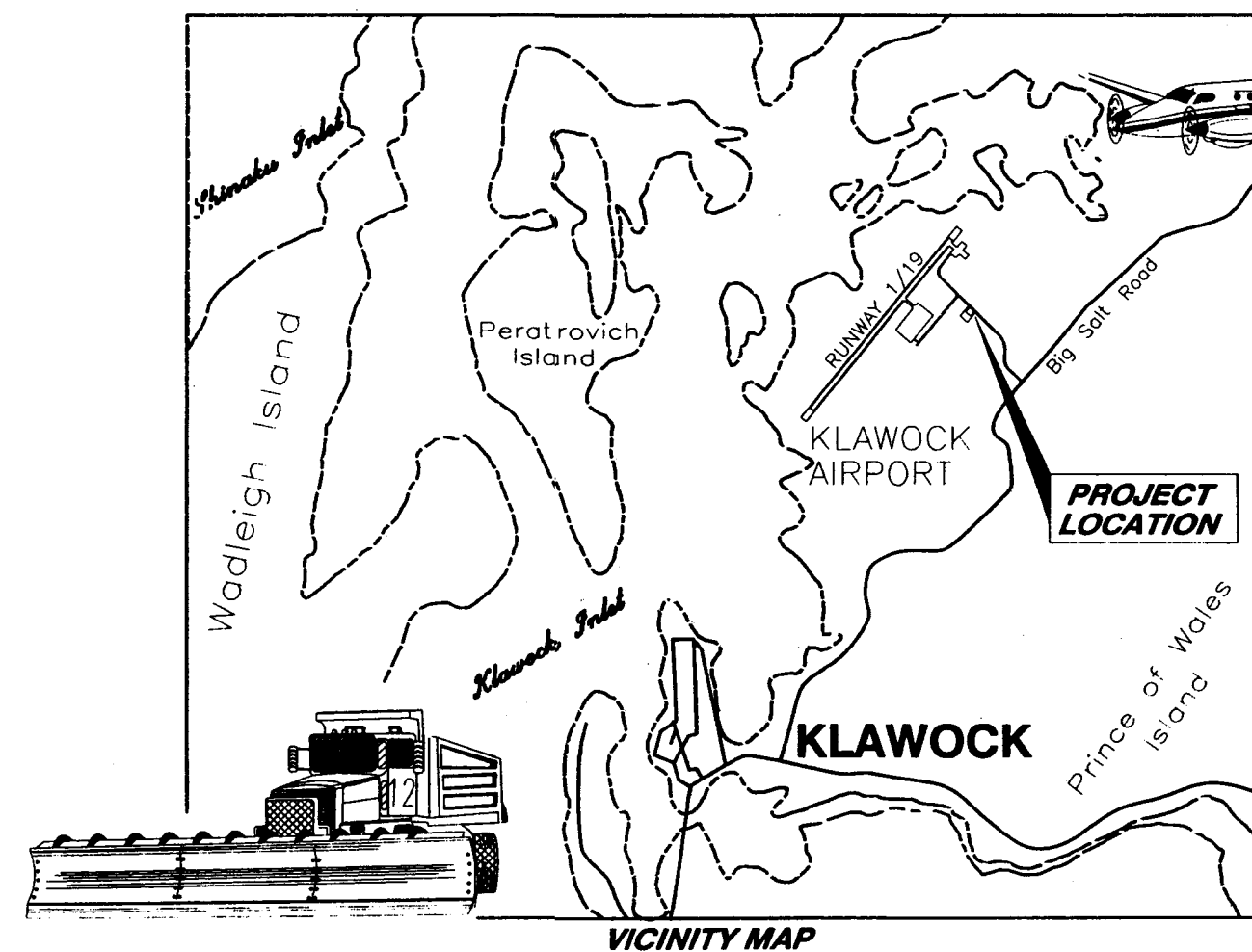
3031 CLINTON DRIVE SUITE 200,
JUNEAU ALASKA 99801 907-790-2901
ARCHITECTURE
CIVIL ENGINEER
STRUCTURAL ENGINEER
MECHANICAL ENGINEER

HAIGHT & MCLAUGHLIN

418 HARRIS STREET,
JUNEAU ALASKA 99801 907-586-9788
ELECTRICAL ENGINEER

ESTIMATIONS

1225 E. INTERNATIONAL AIRPORT ROAD,
ANCHORAGE, ALASKA 99518 907-561-0790
COST CONSULTANT



VICINITY MAP

As-Built Plans

Basin: 6-8-02 End: 11-22-02

Project Engineer: Jack Lee

Contractor: Thier & Haide Steel

Note: See Submittal Files for SunBuildings
28-7 Engineering Foundation Plans

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

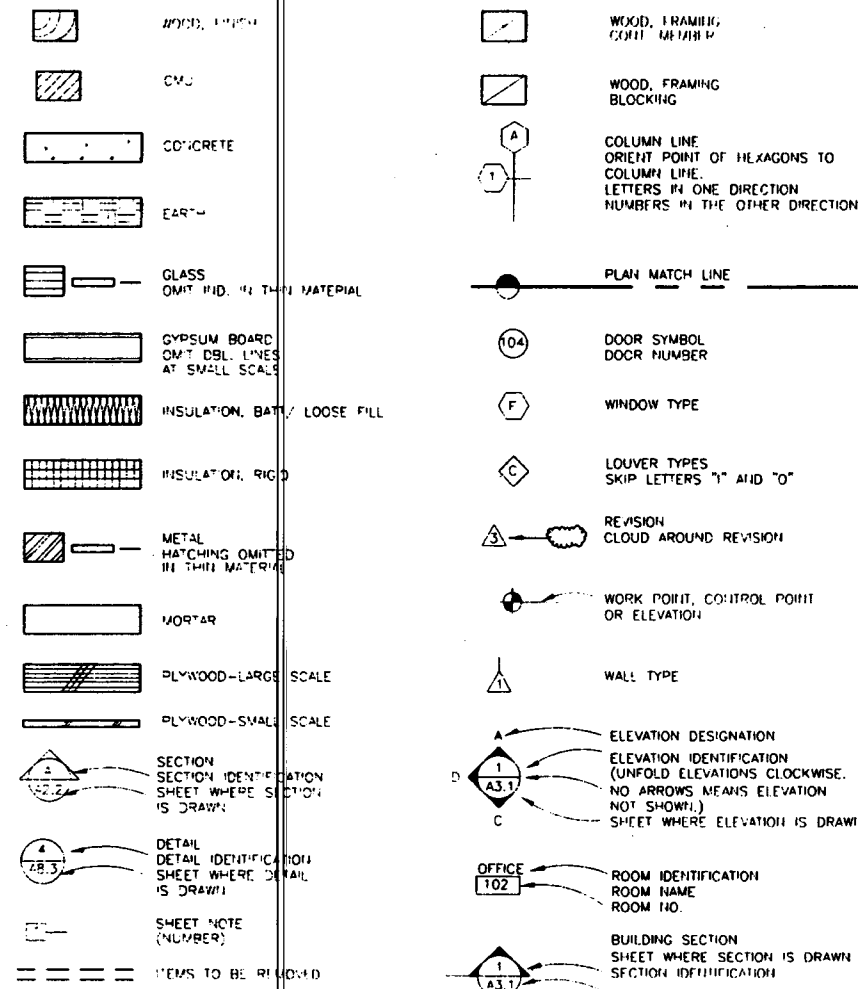
APPROVED
Jack Lee
For Regional Preconstruction Engineer Date: 7/18/01

APPROVED
[Signature]
Regional E. Director Date: 7/18/01

PROJECT NUMBER: 67998
DATE: JULY, 2001
SHEET T1 OF 16

ENGINEER'S SEAL
STATE OF ALASKA
JACK LEE
P.E. 10154
7/18/01

SYMBOLS



ABBREVIATIONS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
ACT	ADJ	AGGR	AL	APPROX	ARCH	ASB	ASPH	BD	BITUM	BLDG	BLK	BLKG	BM	BT	B.W	CAB	CANT	C	C.B	CEM	CI	C.I	C.G	CLG	CLKG	CLO	CLR	C.O	COL	CONC	CONN	CONSTR	CONT	CORR	CPT	CTR	CTSK	COUNTR	C.M.B.P	C.M.R.S	CMU	DBL	DEPT	D.F	DIT	D.I	DIA	DIM	DISP	DN	DR	DWR	DS	D.SP	DWG	E	EA	E.J	E.S	E.W	EL	ELEC	ELEV	EMER	ENCL	E.P	EQ	EQPT	EW	E.W.C	EXIST	EXPO	EXP	EXPS	EXT	F.A	F.B	F.D	F.E	FLC	FLG	F.O.C	F.O.F	F.C.S	F.F.P	F.F.P	F.S	FT	FTG	FURN	F.U.T	GA	GALV	G.B	G.I	GL	G.L.B	GND	GR	GYP	G.W.B	H.B	H.C	HD	H(W)	HW	H.M	H.P	HORIZ	HR	HT	I.D	IE	I.M	INFO	INSUL	INT	JAN	JIB	JT	KIT	LAB	LAM	LAV	LKR	L.H	L.V	L.T	L.P	LSD	MAT'L	MAX	M.B	M.C	MECH	MEMB	MET	MFR	MHI	MIR	MISC	M.O	MID	MULL	MTP	N	N.I.C	NO	NOM	N.T.S	O.A	O.C	O.D	OFF	O.F.C.I	O.F.O.I	OPNG	OPP	ORD	PH	PL	PLAM	PLAS	PLYWD	PR	P.T.D	P.T.D/R	P.V.C	Q.T	Q.T.B	R	RAD	RD	REF	REG	REGR	REIN	REQ	RESIL	RM	R.O	RT	RWL	S	S.C	S.C.D	SCH	SAM	SECT	SH	SHR	SHT	SIM	S.I.D	S.N.R	SPEC	SQ	STV	S.S	S.S.K	SIA	STD	STL	STOR	STRUC	SUSP	SV	T	T.B	T.C	TEL	TER	T&G	T.P	T.P.D	T.S	T.V	T.W	U.G	UNF	U.O.N	UR	US	VERT	VEST	VIF	VT	W	W	W.C	WD	W/O	WP	WSC	WT	W.W.J	PLG BOARD	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND GATE	PORT AND 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CODE REVIEW

REFERENCE CODE: INTERNATIONAL BUILDING CODE, 2003

CLASSIFY THE BUILDING

- A. OCCUPANCY CATEGORY:
LOW HAZARD STORAGE S-2
- B. TYPE OF CONSTRUCTION = I-B
- C. ALLOWABLE FLOOR AREA: 26,000 S.F.
ACTUAL HEIGHT: 3.075 S.F.
- D. ALLOWABLE HEIGHT: 4 STORIES
ACTUAL HEIGHT: 1 STORY

GENERAL NOTES

1. ALL DETAILS IN THIS CONTRACT DOCUMENT SET ARE CONSIDERED TYPICAL UNLESS NOTED OTHERWISE. SIMILAR DETAILS OCCUR AT SIMILAR CONDITIONS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BEFORE PROCEEDING WITH ANY WORK.
3. DESIGN LOADS:
- | | | |
|----------|------------------|-------------------|
| ROOF: | SHOW | 50 PSF + DRIFTING |
| SE WIND: | USE GROUP I | |
| | STE CLASS D | |
| WIND: | BASIC WIND SPEED | 120 MPH |
| | EXPOSURE | C |
| | IMPORTANCE | 1.0 |



Date: 7/16/01

Project:	KLAWOCK AIRPORT SAND & CHEMICAL STORAGE BUILDING
Client:	AKSAS # 67996
Design:	AIP # 3-02-0154-0801
Drawn:	
Checked:	
Date:	

USKH

Architecture & Engineering
Land Surveying & Planning2515 1st Street
Anchorage, Alaska 99503
(907) 276-42451830 Second Avenue
Anchorage, Alaska 99501
(907) 452-21283031 Center Drive
Suite 200
Anchorage, Alaska 99503
(907) 932-2901780 Taylor Avenue
Anchorage, Alaska 99504
(907) 576-7816

Project:

KLAWOCK AIRPORT
SAND & CHEMICAL
STORAGE BUILDINGAKSAS # 67996
AIP # 3-02-0154-0801STATE OF ALASKA
Dept. of Transportation
and Public Facilities
Southeast Region

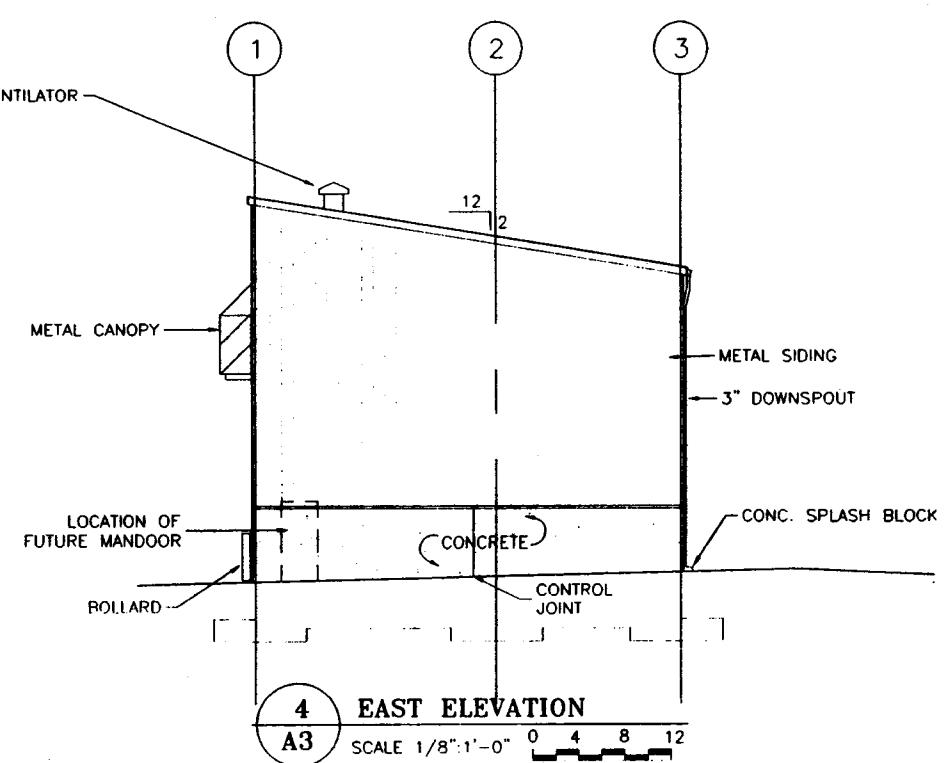
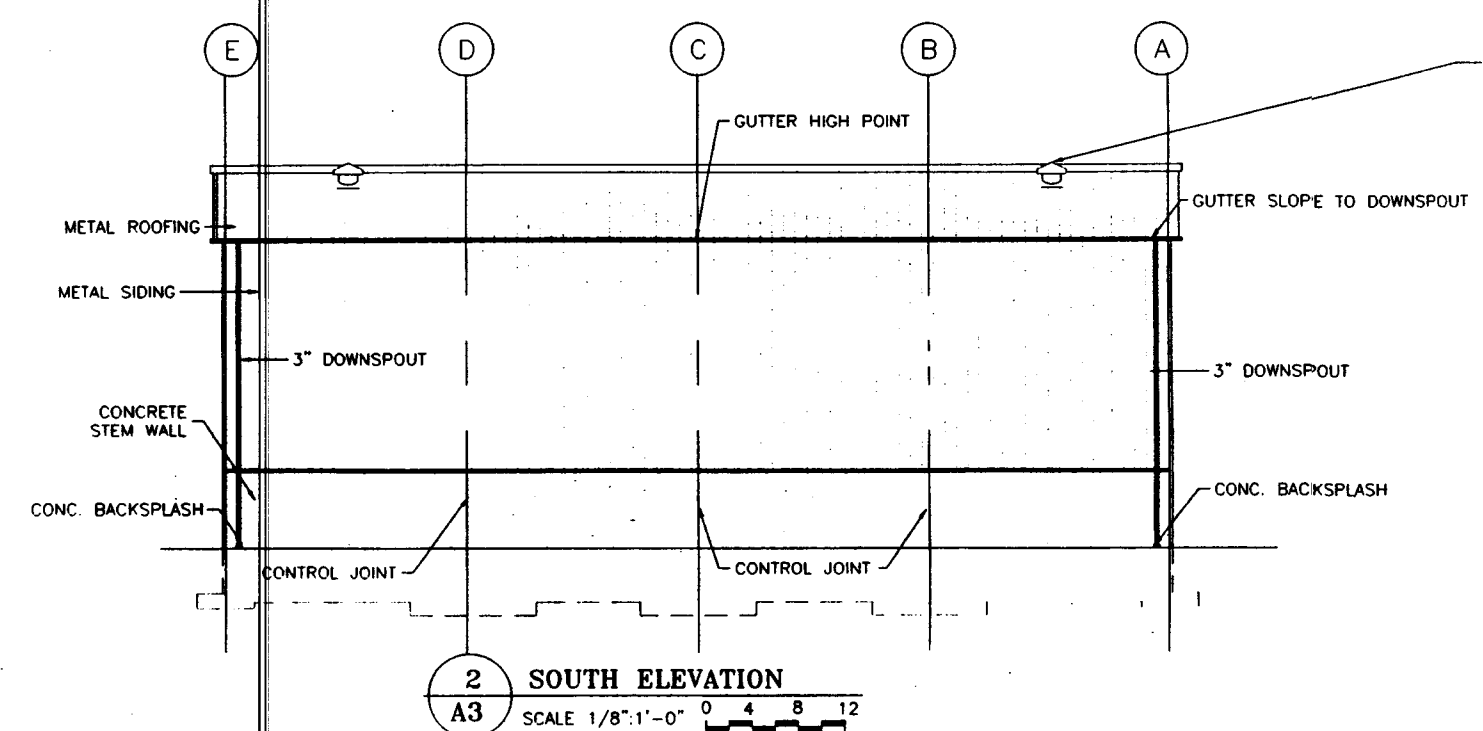
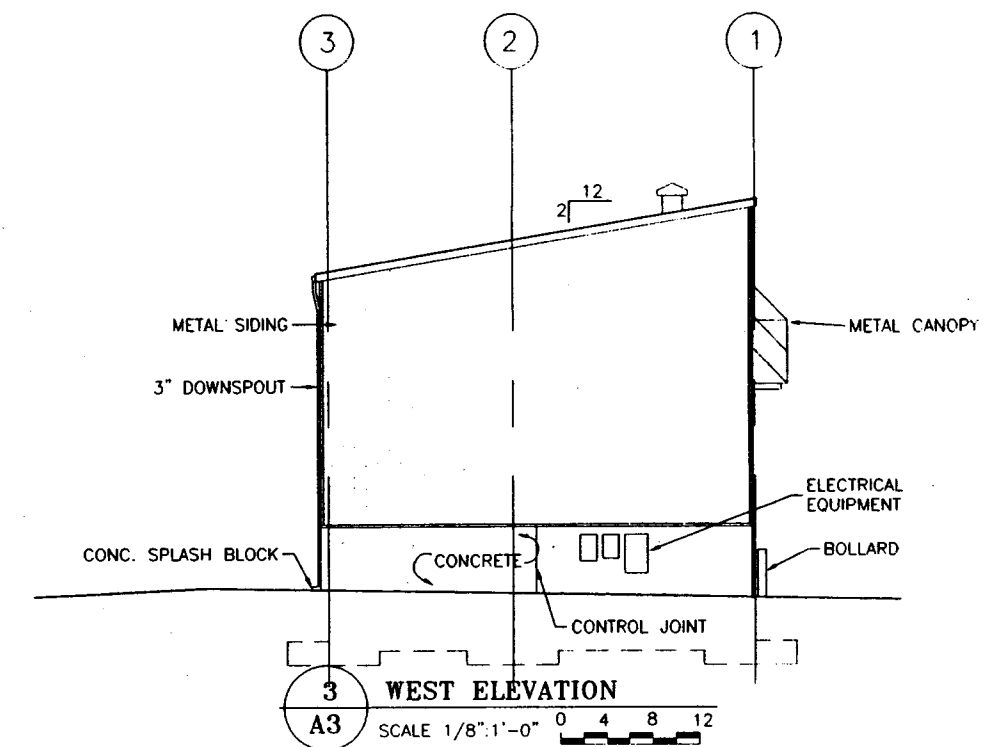
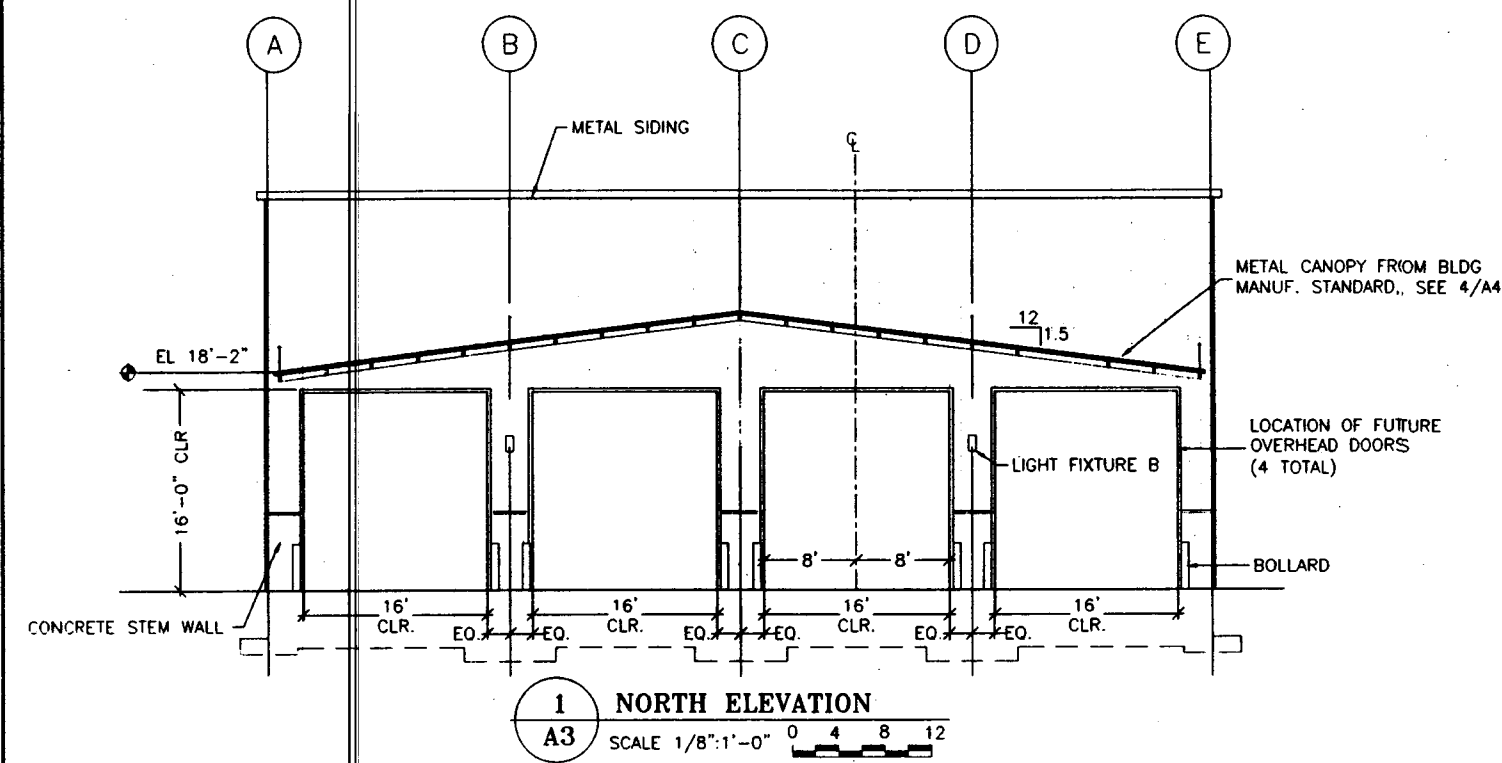
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Client	AKSAS # 67996
Design	AIP # 3-02-0154-0801
Drawn	
Checked	
Date	

Sheet Contents
INFORMATION
SHEET

Sheet No.:

T2

USKH W.O.





Date Stamped 7/24/01

#	
Revised	
Date	



Architecture • Engineering
Land Surveying • Planning

2515 'A' Street
Anchorage, Alaska 99503
(907) 275-4245

830 Second Avenue
Fairbanks, Alaska 99701
(907) 452-2728

3031 Cushman Drive
Suite 200
Juneau, Alaska 99801
(907) 580-2901

290 North Willow Street
Wasilla, Alaska 99654
(907) 376-7815

Project:
**Klawock Airport
Sand & Chemical
Storage Building**

AKSAS # 67998
AIP # 3-02-0154-0801

STATE OF ALASKA
Dept. of Transportation
and Public Facilities
Southeast Region

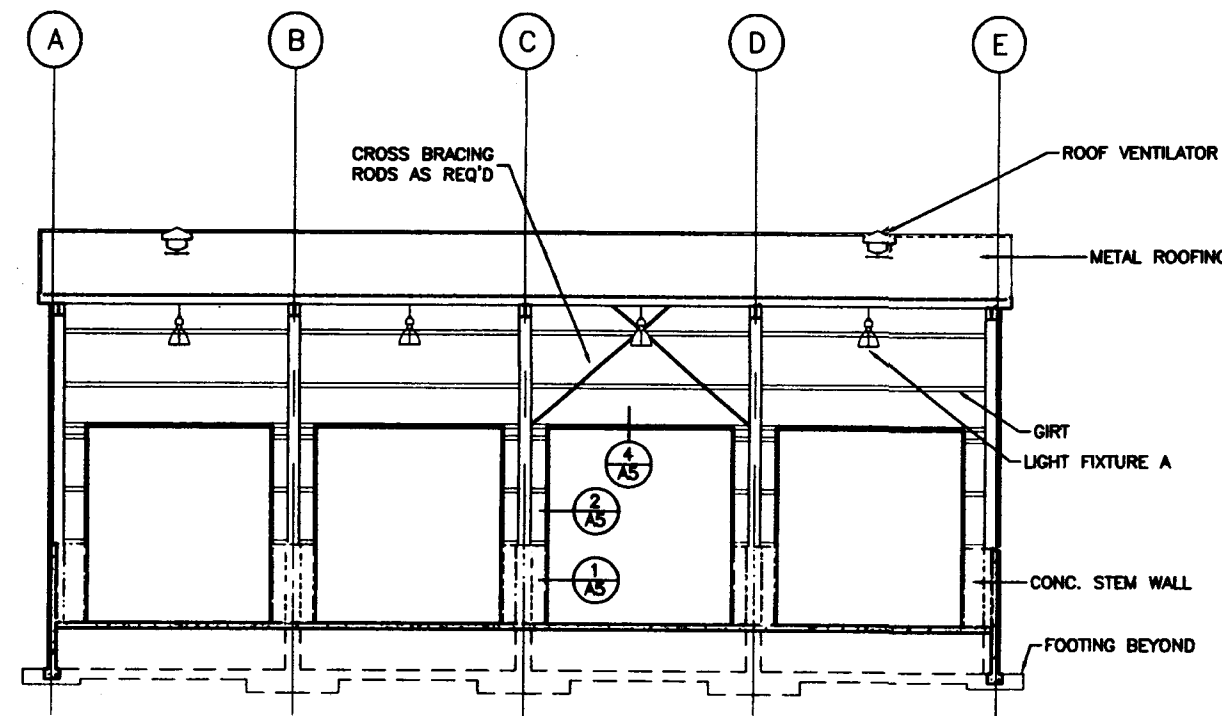
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Drawn	SSM
Checked	FR
Date	July 2, 2001

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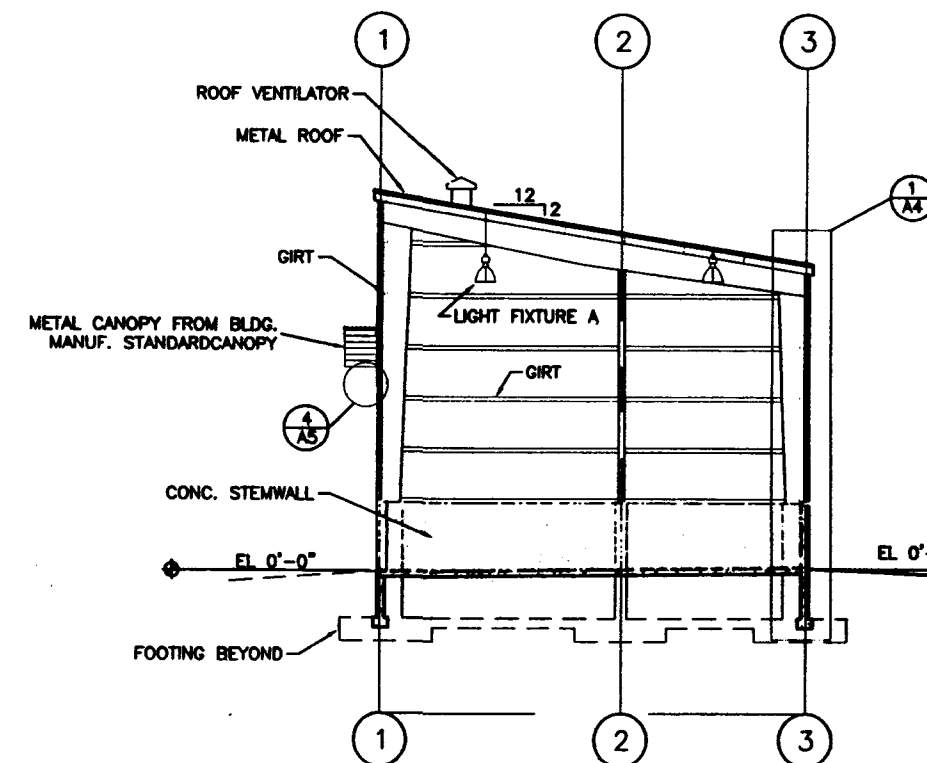
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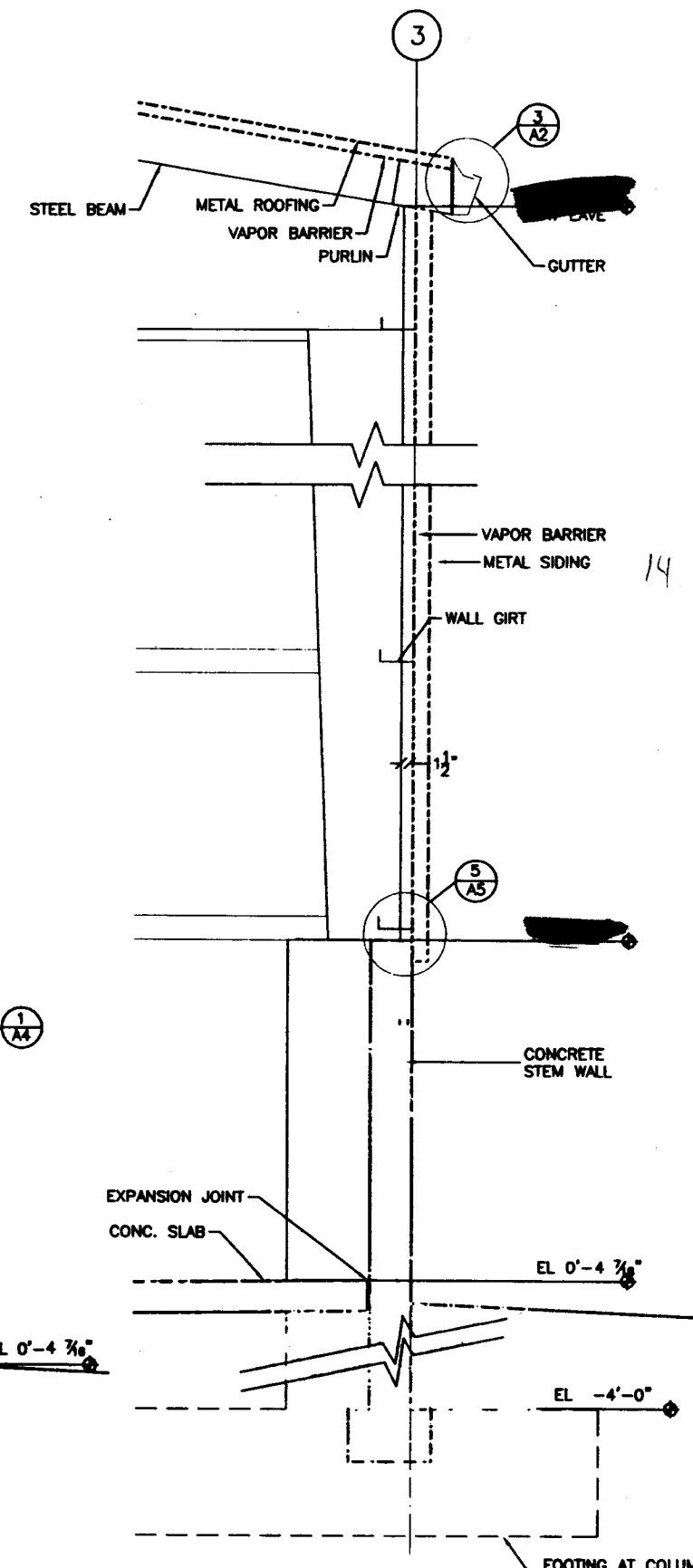
USKH W.O. 622200



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2 SECTION
A4 SCALE 1/8"=1'-0" 0 4 8 12



1 SECTION
A4 SCALE 3/4"=1'-0" 0 1 2

Date Stamped: 7/2/01

Revision	
Date	

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Architecture • Engineering
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2315 'A' Street
Anchorage, Alaska 99503
(907) 278-4245

1830 Second Avenue
Fairbanks, Alaska 99701
(907) 452-2128

3031 Clinton Drive
Suite 200
Juneau, Alaska 99801
(907) 790-2901

290 North Willow Street
Wasilla, Alaska 99554
(907) 378-7815

Project:
**Klawock Airport
Sand & Chemical
Storage Building**

AKSAS # 67996
AIP # 5-02-0154-0001

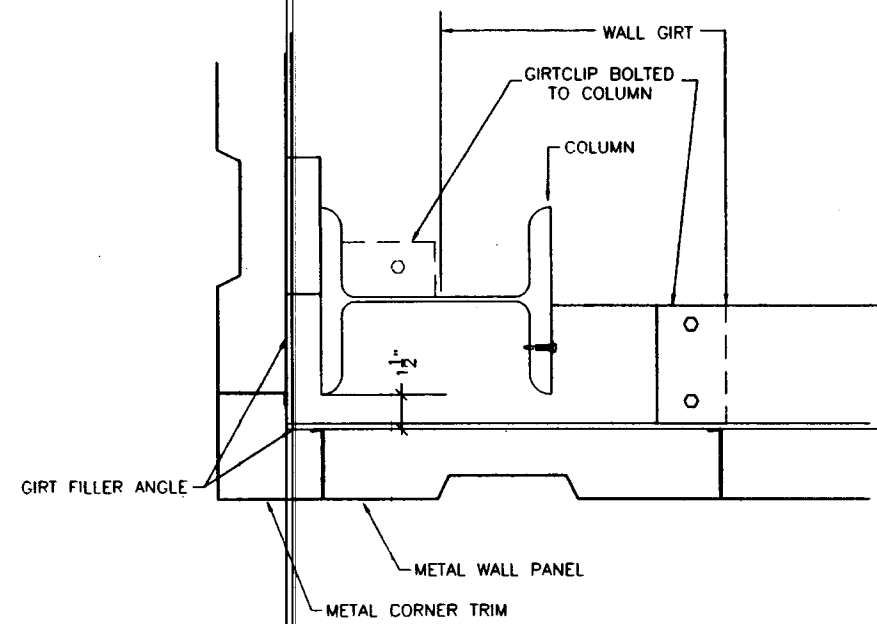
STATE OF ALASKA
Dept. of Transportation
and Public Facilities
Southeast Region

Project Mgr.	
Drawn	WMH
Checked	ER
Date	July 2, 2001

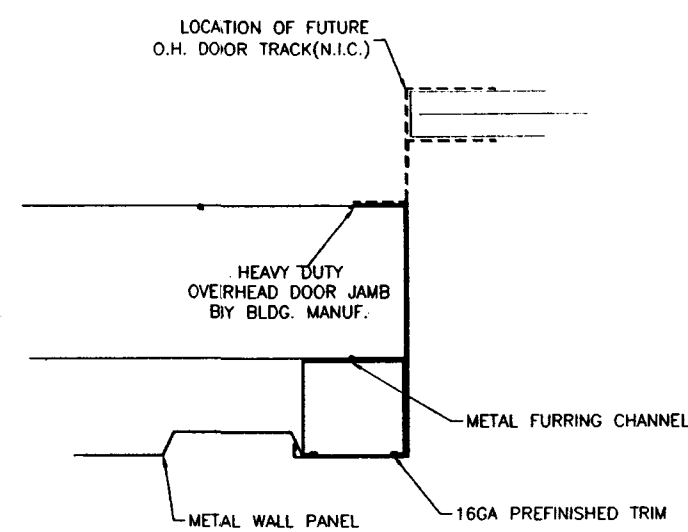
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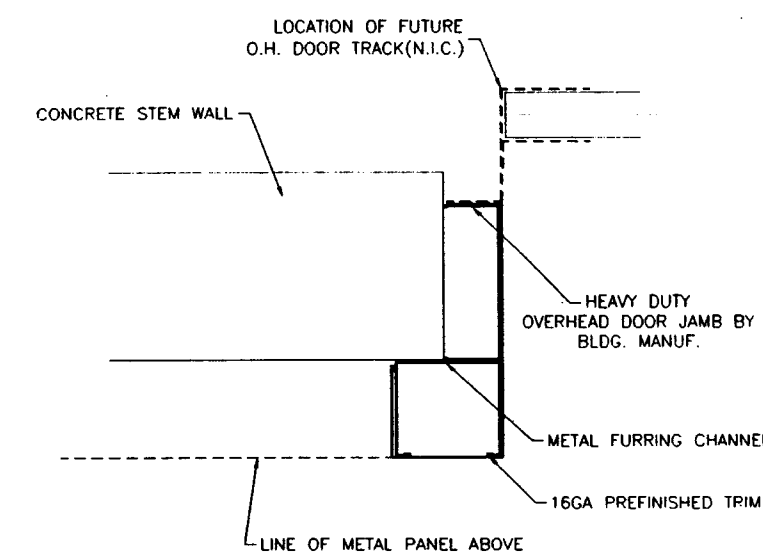
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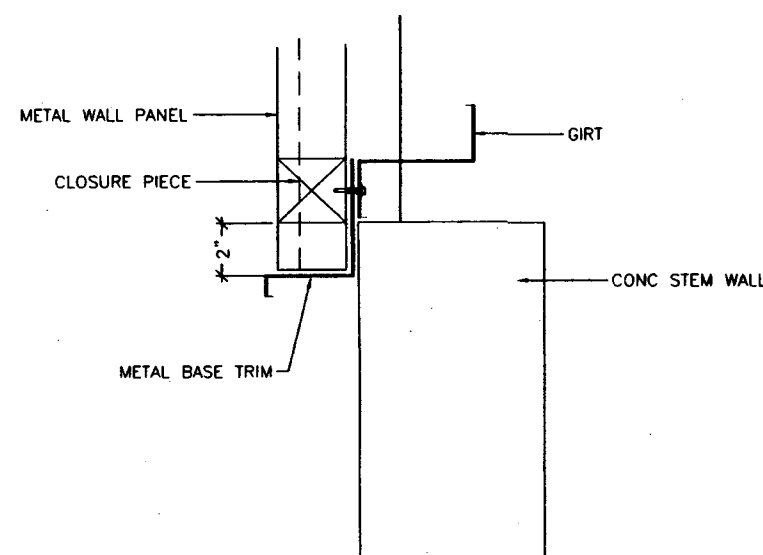
3 PLAN AT EXTERIOR CORNER
A5
SCALE 3":1'-0" 0 1 2



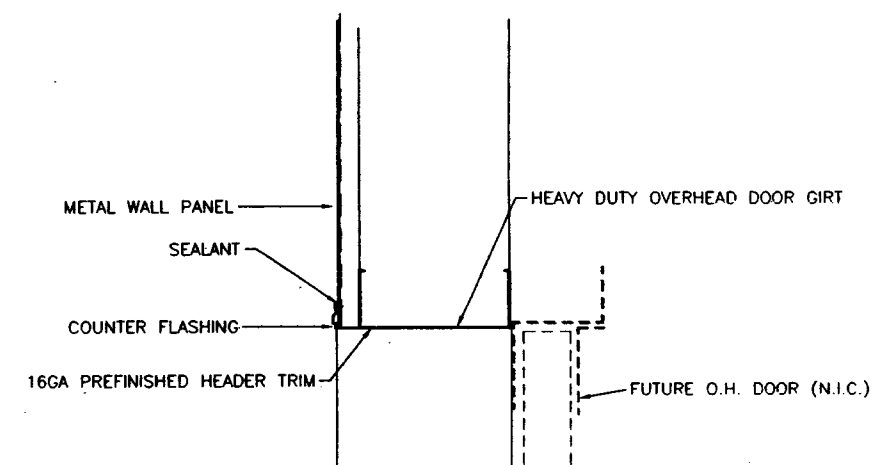
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A5
SCALE 3":1'-0" 0 1 2



1 PLAN @ JAMB- CONCRETE STEMWALL
A5
SCALE 3":1'-0" 0 1 2



5 SECTION @ METAL WALL BASE
A5
SCALE 3":1'-0" 0 1 2



4 SECTION @ OPENING HEADER
A5
SCALE 3":1'-0" 0 1 2

STATE OF ALASKA
JAMES A. HARRIS
REGISTERED PROFESSIONAL ENGINEER
#A-3565

Date Stamped 7/14/01

Revision

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2515 'A' Street
Anchorage, Alaska 99503
(907) 276-4245

1830 Second Avenue
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(907) 452-2728

3031 C-Mon Drive
Suite 200
Jupiter, Alaska 99621
(907) 90-2901

290 North Willow Street
Ketchikan, Alaska 99854
(907) 336-7815

Project:
Klawock Airport
SAND & CHEMICAL
STORAGE BUILDING

AKSAS # 87998
AIP # 3-02-0154-0801

STATE OF ALASKA
Dept. of Transportation
and Public Facilities
Southeast Region

Project Mgr.

Drawn WJH
Checked ER
Date July 2, 2001

Sheet Contents

DETAILS

Sheet No.:
A5

USKH W.O. 629200

1. EXISTING TOPOGRAPHIC INFORMATION WAS TAKEN FROM A TOP SURVEY BY DOT&PF PERFORMED APRIL 2000. CONTRACTOR SHALL VERIFY SITE CONDITIONS.
2. SOILS INFORMATION WAS TAKEN FROM GEOTECHNICAL REPORT OF THE KILWICK SAND & GRAVEL STORAGE BUILDING PERFORMED JUNE 2000 BY DOT&PF.
3. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY. UTILITY LOCATES SHALL BE OBTAINED PRIOR TO SITE CONSTRUCTION. EXERCISE CAUTION DURING EXCAVATION.
4. VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. RECORD LOCATIONS AND CHANGES TO UTILITIES IN SURVEY NOTES AND ON AS-BUILT PLANS.
5. RESTORE ALL DISTURBED PROPERTY TO MATCH EXISTING CONDITIONS.

1. CONTRACTOR TO PREPARE AND SUBMIT A STORMWATER POLLUTION PLAN (SWPPP) AND A HAZARDOUS MATERIALS CONTROL PLAN (HMCPP)
2. PROVIDE CHECKDAMS IN DITCHES AS SHOWN AND AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING SITE.

BASIS OF BEARING FOR SURVEY:
LINE BETWEEN TWO FOUND MONUMENTS ON
THE KLAUOCK AIRPORT CENTERLINE WITH
A BEARING AND DISTANCE OF N38°07'31"E
5200'; DOT KLAUOCK AIRPORT SURVEY

BASIS OF BEARING FOR PROJECT:
LINE BETWEEN TWO PK NAILS SET IN THE PAVEMENT
WITH A BEARING AND DISTANCE OF N47°46'00"W, 117.11

BASIS OF VERTICAL CONTROL FOR SURVEY
MONUMENTS ON KLAUOCK AIRPORT CENTERLINE

BASIS OF VERTICAL CONTROL FOR PROJECT:
TWO PK NAILS SET IN PVMT

EXISTING ELECTRIC LINE

EXISTING SANITARY SEWER

EXISTING WATER LINE

EXISTING LUMINAIRE

EXISTING SEWER MANHOLE & LIFT STATION

VEGETATION

EXISTING CONTOURS

EXISTING PAVEMENT EDGE

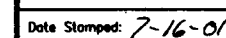
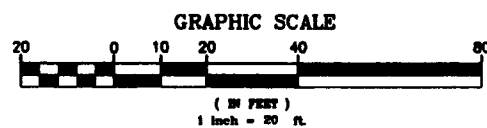
EXISTING BUILDINGS

PROPOSED BUILDING

SOIL TESTHOLE

DITCH LINE (EXISTING)

DITCH LINE (PROPOSED)

[illegible]

Architecture • Engineering
Land Surveying • Planning

2515 'A' Street
Anchorage, Alaska 99503
(907) 278-4245

1830 Second Avenue
Fairbanks, Alaska 99701
(907) 452-2128

3031 Clinton Drive
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Juneau, Alaska 99801
(907)790-2901

290 North Willow Street
Wasilla, Alaska 99654
(907)376-7815

Project:

**KLAUOCK AIRPORT
SAND & CHEMICAL
STORAGE BUILDING**

AKSAS # 67998
AIP # 3-02-0154-0801

STATE OF ALASKA
Dept. of Transportation
and Public Facilities
Southeast Region

Project Mgr.	
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Drawn		
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Checked	PJO
---------	-----

Checked	NCL	
Date	July 2, 200	

Date	July 2, 200
Sheet Contents:	

SITE PLAN

SITE PLAN

1. **Introduction**

1. **Introduction**

1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

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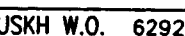
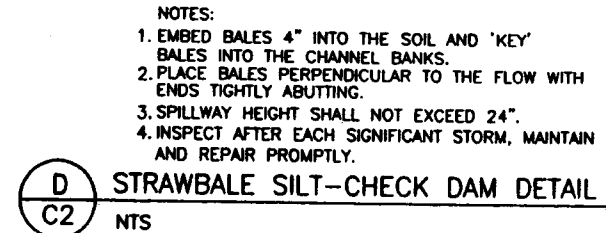
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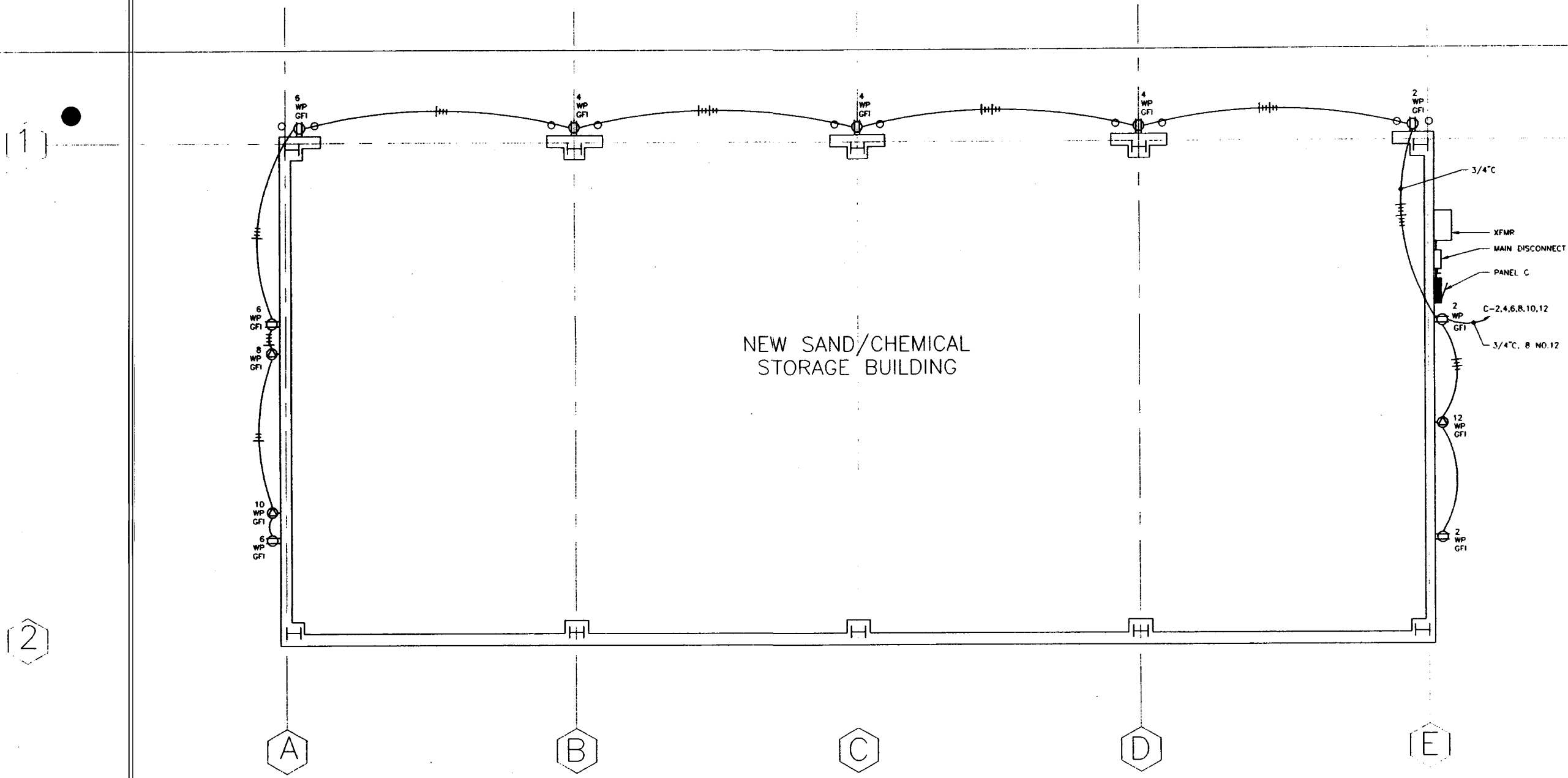
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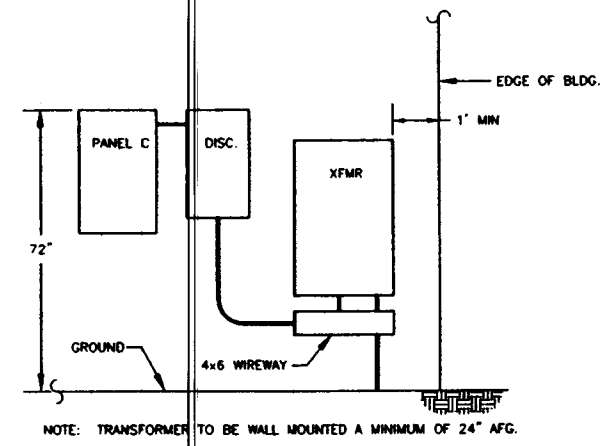
USK11 W.O. 00000

USKH W.O. 62920





FLOOR PLAN
SCALE: 1/4" = 1'-0"



ELEVATION - SERVICE
SCALE: 1/2" = 1'-0"

Date Stamped: _____
By: _____
Revision: _____
Date: _____

Architecture • Engineering
Land Surveying • Planning

T.S. McLAUGHLIN, INC.
CONSULTING ENGINEERS
1100 W. 10TH AVENUE, SUITE 200
ANCHORAGE, ALASKA 99501

Project: **Klawock Airport Sand & Chemical Storage Building**

AKSAS # 67998
AIP # 3-02-0154-0801

STATE OF ALASKA
Dept. of Transportation and Public Facilities
Southeast Region

Project Mgr	MAS
Drawn	PEL DPP
Checked	TSM
Date	7-2-01

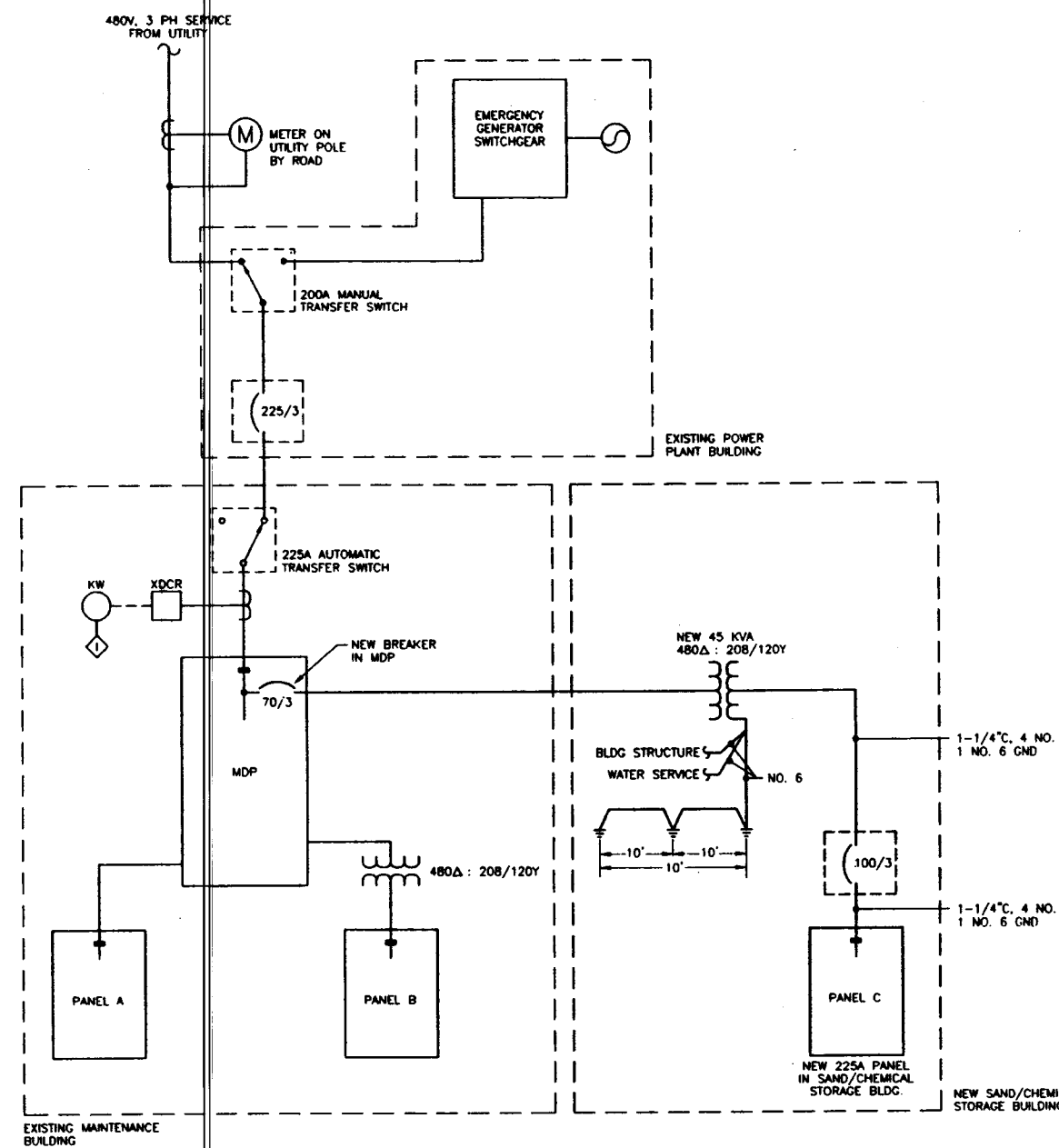
Sheet Contents:
**FLOOR PLAN
POWER**

Sheet No.: **E2**

USKH W.O. 629200

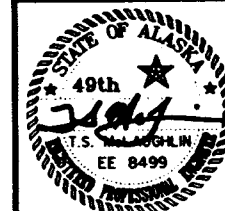
FILE: 25E2.DWG

FILE: 2453.DWG



SINGLE LINE DIAGRAM

PANEL C		SIZE		VOLTS/PHASE		MAIN		LOCATION		MOUNT	
		225 AMPS		120/208V, 3 PH		LUGS ONLY		BUILDING EXTERIOR		SURFACE	
CIRCUIT NO.	DESCRIPTION	LUGS	20/1	1.5	2.1	0.6	20/1	EXTERIOR - NORTH			
1	SAND/CHEMICAL STORAGE										
3	EXTERIOR										
5	SPARE										
7	SPARE										
9	SPARE										
11	SPARE										
13											
15											
17											
19											
21											
23											
25											
27											
29											
TOTAL CONNECTED LOAD = 8.3 KVA / 30 AMPS											



Date Stamped

24

Revision

Date

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HAIGHT & REAGAN, INC.
410 Marine Street, Juneau, Alaska 99801/907/586-8788

Project:

KLAWOCK AIRPORT
SAND & CHEMICAL
STORAGE BUILDING

AKSAS # 07990

AIP # 3-02-0154-0801

STATE OF ALASKA
Dept. of Transportation
and Public Facilities
Southeast Region

Project Mgr. MAS

Drawn PEL DRP

Checked TSM

Date 7-2-01

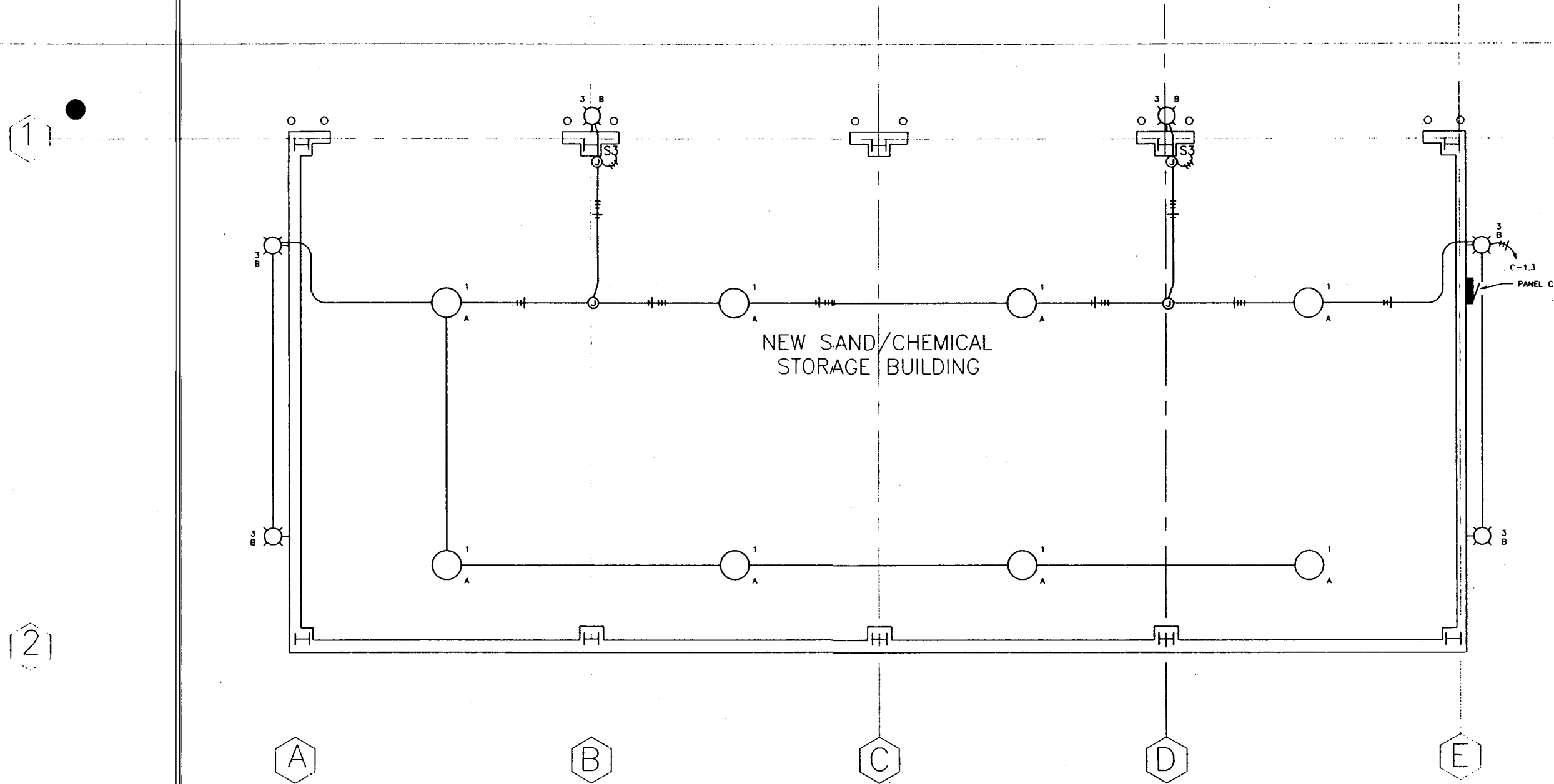
Sheet Contents:

SINGLE LINE
DIAGRAM/
PANEL
SCHEDULE

Sheet No.:

E3

USKH W.O. 629200



FLOOR PLAN
SCALE: 1/4" = 1'-0"



LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	PENDANT MOUNT HD HIRSHY INDUSTRIAL w/ PRISMATIC GLASS REFLECTOR, 1 LAMP (PRISMALINE)	HOLOPHANE PRSL-250HP-12-PD-N39	(1) 250W HPS 2200K, CRI 65	MOUNT @ 25' AFT TO BOTTOM OF LUMINAIRE
B	EXTERIOR HD WALL MOUNTED CUTOFF w/ PE CELL	GUTH SND12-50HP-1-PEC	(1) 50W HPS 2200K, CRI 65	MOUNT @ 10' AFT TO BOTTOM OF LUMINAIRE

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By:
Revision:
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HAIGET & MACLAUGHLIN, INC.
CONSULTING ENGINEERS
1000 E. 10th Ave., Suite 100
Anchorage, Alaska 99501
Phone: (907) 566-7788

Project:
**KLAWOCK AIRPORT
SAND & CHEMICAL
STORAGE BUILDING**

AKSAS # 67996
AIP # 3-02-0154-0801

STATE OF ALASKA
Dept. of Transportation
and Public Facilities
Southeast Region

Project Mgr.	MAS
Drawn	PEL DRP
Checked	TSM
Date	7-2-01

Sheet Contents:
FLOOR PLAN
LIGHTING
LUMINAIRE
SCHEDULE

Sheet No.:
E4

USKH W.O. 629200

GENERAL STRUCTURAL NOTES

(ALL UNITS UNLESS NOTED OTHERWISE)

CODE:

INTERNATIONAL BUILDING CODE 2000 (IBC 2000)

DESIGN LOADS:

ROOF LIVE LOAD 50 PSF
STAIR LIVE LOAD 100 PSF
WIND LOADS:
BASIC WIND SPEED 90 PSF
EXPOSURE R 2.5
IMPORTANCE FACTOR 1.0

SEISMIC USE GROUP: I
SEISMIC GROUP: D
SITE CLASS: S1
STRUCTURAL SYSTEM: DUAL SYSTEM
R 2.5
Duct 2.0
BASE SHEAR COEFFICIENT $\alpha = 0.32W$

FOUNDATIONS:

GEOTECHNICAL CONSULTANT: GEOTECHNICAL INVESTIGATION FOR THE KILWOCK SAND & CHEMICAL STORAGE BUILDING, FILE 67998, PREPARED BY MITCH McDONALD, JR., ENGINEERING GEOLOGIST, STATE OF ALASKA, DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, DATED JULY 6, 2000.

ASSUMED SOIL BEARING = 3,000 PSF. REMOVE AND WASTE ALL FILL OR NATIVE SOIL EXCAVATED TO PLACE THE FOOTINGS. OVER-EXCAVATE ONE FOOT BELOW ALL FOOTINGS AND BACKFILL WITH COMPACTED SHOT ROCK UNLESS MODERATELY HARD BEDROCK IS ENCOUNTERED DURING THE EXCAVATION. FOOTINGS CAN BE CAST DIRECTLY UPON BEDROCK IF ALL LOOSE MATERIAL IS REMOVED. UNDERCUT THE SIDES OF THE EXCAVATION 1:12 BEFORE PLACING CONCRETE. CONTACT THE STRUCTURAL ENGINEER IF BEDROCK IS ENCOUNTERED AT DEPTHS LESS THAN 30" FROM THE PROPOSED FINISH FLOOR LEVEL.

THE FOUNDATION PLAN AND DETAILS PRESENTED IN THESE DRAWINGS ARE BASED UPON A WARD-PRUXEN BUILDING SYSTEM PROVIDED BY WARD PRUXEN, 615 CONTRACTORS, INC., KILWOCK, ALASKA. THESE DRAWINGS ARE PRESENTED FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FOOTING SIZE, FOOTING LOCATIONS, PLASTER SIZES, REINFORCING DETAILS, COLUMN LOCATIONS AND ANCHOR BOLT LAYOUTS TO CONFORM TO THE ACTUAL DETAILS OF THE BUILDING SYSTEM BEING PROVIDED. ALL ALTERATIONS REQUIRED FOR THE FOUNDATION SYSTEM SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF ALASKA AND BE SUBMITTED TO THE STATE OF ALASKA ENGINEER FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION.

CONCRETE:

TYPICAL CONCRETE COMPRESSIVE STRENGTHS		
CONCRETE	MINIMUM 28 DAY COMPRESSIVE STRENGTH	SLUMP AT PLACEMENT
UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE	3,000 PSI	4 1/2" MAXIMUM

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP NOT EXCEEDING 3", TO BE FIELD VERIFIED, PRIOR TO ADDING ADMIXTURE, AND NOT EXCEEDING 8" AT PLACEMENT.

ADDITION OF WATER TO THE BATCH FOR MATERIAL WITH INSUFFICIENT SLUMP WILL NOT BE PERMITTED. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT SLABS ON GRADE. UNLESS APPROVED OTHERWISE IN WRITING BY THE ENGINEER, ALL CONCRETE SLABS ON GRADE SHALL BE BONDED BY CONSTRUCTION JOINTS, KEYED OR SAW CUT, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 400 SQUARE FEET. KEYED CONSTRUCTION JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAW CUT.

REINFORCING:

TYPICAL REINFORCING BAR STRENGTHS	
#3 OR LARGER	ASTM A615 (GR60) DEFORMED

TYPICAL CLEAR CONCRETE COVERAGE	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
FORMED CONCRETE	#6 AND LARGER 2" #5 AND SMALLER 1 1/2"
ALL OTHERS PER LATEST EDITION OF ACI 318.	

LAP SPLICES IN CONCRETE:

UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, WALLS, AND SLABS SHALL BE CLASS "B" TENSION LAP SPLICES PER LATEST EDITION OF ACI 318. STAGGER ALTERNATE SPLICES A MINIMUM OF ONE LAP LENGTH.

ALL SPLICE LOCATIONS SUBJECT TO APPROVAL. PROVED BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS. REINFORCING BAR SPACINGS GIVEN ARE MAXIMUM ON CENTERS (O.C.). ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE. CONCRETE COLUMN DOWEL EMBEDMENT SHALL BE A STANDARD COMPRESSION DOWEL EMBEDMENT LENGTH ACCORDING TO THE LATEST EDITION OF ACI 318.

SHOP DRAWINGS:

THE CONTRACTOR SHALL REVIEW, STAMP WITH HIS APPROVAL, DATE, AND SIGN ALL SHOP DRAWINGS REQUIRED BY THE CONTRACT DOCUMENTS PRIOR TO SUBMITTING TO THE ENGINEER. AT THE TIME OF SUBMISSION, THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION IN THE SHOP DRAWINGS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

SPECIAL INSPECTIONS:

SPECIAL INSPECTION IS REQUIRED DURING THE FOLLOWING OPERATIONS PER IBC SECTION 1705:

CONCRETE: DURING TAKING OF SPECIMENS AND PLACEMENT OF ALL CONCRETE. SEE PROJECT FREQUENCY GUIDE AND SPECIFICATIONS FOR FREQUENCY OF TESTING AND STRENGTH REQUIREMENTS.

BOLTS INSTALLED IN CONCRETE: PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS.

REINFORCING STEEL: DURING PLACEMENT OF REINFORCING STEEL AND CONTINUOUS SPECIAL INSPECTION DURING THE INSTALLATION OF MECHANICAL REINFORCING COUPLINGS.

WELDING: DURING ALL STRUCTURAL WELDING, INCLUDING WELDING OF REINFORCING STEEL.

HIGH STRENGTH BOLTING: WHILE THE WORK IS IN PROGRESS, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE REQUIREMENTS FOR BOLTS, NUTS, WASHERS, AND PAINT; BOLTED PARTS; AND INSTALLATION AND TIGHTENING ARE MET.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE STATE OF ALASKA ENGINEER AND TO THE ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
- UPON COMPLETION OF THE ASSIGNED WORK, THE SPECIAL INSPECTOR SHALL (UNPLATE AND) SIGN A FINAL REPORT CERTIFYING THAT TO THE BEST OF THEIR KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

STRUCTURAL OBSERVATION:

THE OWNER SHALL EMPLOY AN ENGINEER TO PERFORM THE STRUCTURAL OBSERVATION AS DEFINED IN THE IBC. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR, AND THE BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

GENERAL:

THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS, AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (FOOTINGS, TENSION TIES OR PILASTERS) WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

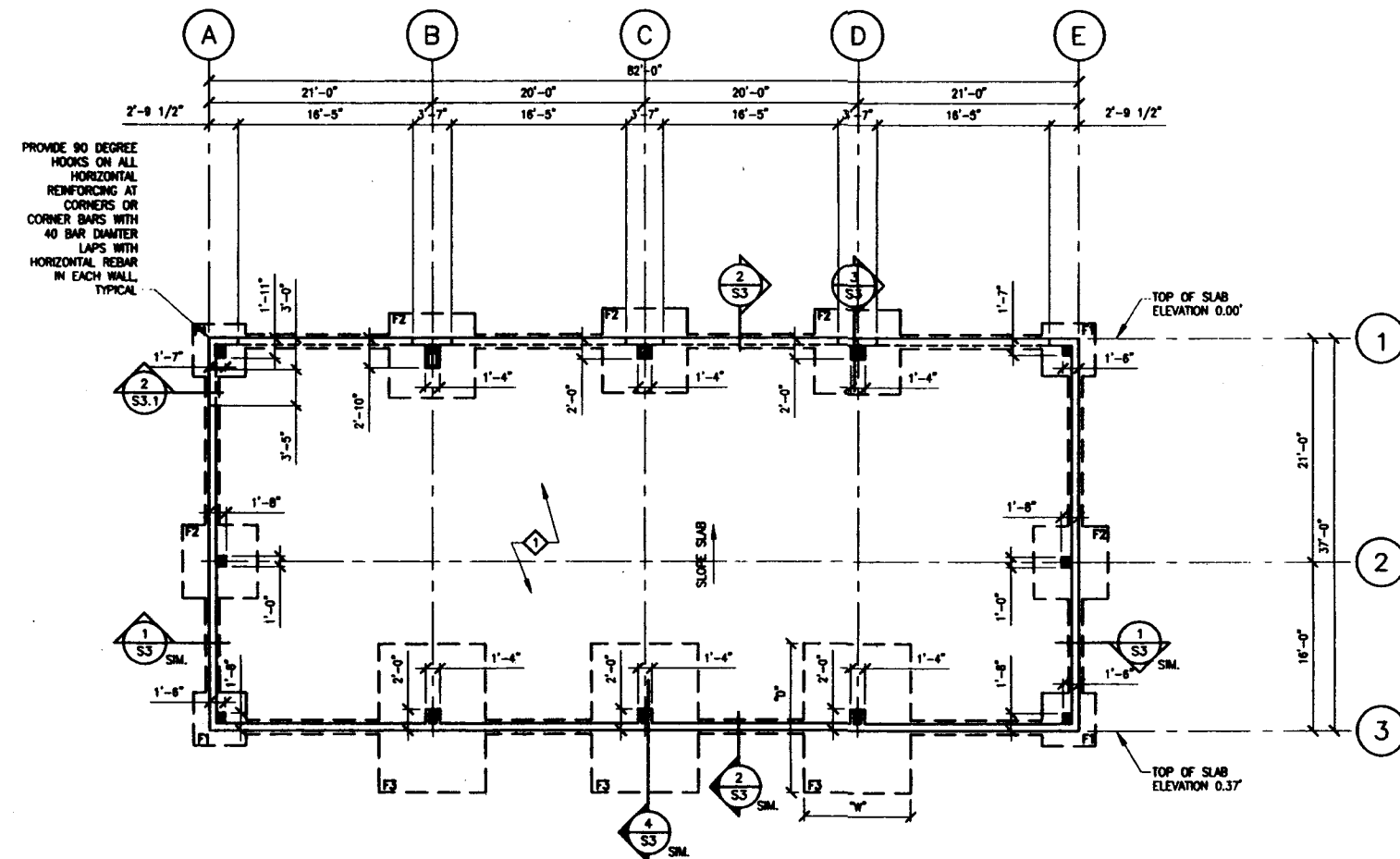
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES IN DETAILING NECESSARY IF PRODUCTS OTHER THAN THOSE SPECIFIED ON THE DRAWINGS ARE USED.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES, AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, INCLUDING CHANGES TO THE FOUNDATION PLAN REQUIRED TO ACCEPT THE BUILDING SYSTEM, SHALL BEAR THE SEAL OF A CIVIL ENGINEER REGISTERED IN THE STATE OF ALASKA.

	
Date Stamped	7/16/01
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Project:	
KILWOCK AIRPORT SAND & CHEMICAL STORAGE BUILDING	
AKSAS # 67998 AIP # 3-02-0154-0801	
STATE OF ALASKA Dept. of Transportation and Public Facilities Southeast Region	
Project Mgr.	
Drawn	RFH
Checked	BEH, ER
Date	July 2, 2001
Sheet Contents	
STRUCTURAL GENERAL NOTES	
Sheet No.:	
S1	
USKH W.O. 621200	



1 FOUNDATION PLAN
S1.0
TOP OF FOOTING ELEVATION = -4.00'
SEE C1 FOR ACTUAL ELEVATION AT 0.00'

KEY NOTES			
6" CONCRETE SLAB ON GRADE W/ #4 AT 12" O.C. EACH WAY, CENTERED IN SLAB. TOP OF SLAB ELEVATION AS INDICATED ON PLAN.			
FOOTING (F) SCHEDULE			
FOR CONSTRUCTION ABOVE FOOTINGS, SEE DETAILS. FOOTING REINFORCING AS SHOWN IN SCHEDULE.			
MARK	FOOTING DIMENSION "W" X "D"	FOOTING REINFORCING "W"	REMARKS
F1	5'-0" X 5'-0"	18"	(5) #5 EACH WAY TOP AND BOTTOM
F2	8'-0" X 8'-0"	24"	(7) #6 EACH WAY TOP AND BOTTOM
F3	10'-0" X 14'-0"	24"	(7) #6 EACH WAY TOP AND BOTTOM SEE DETAIL 3/53

Date Stamped: 7/11/01

Revision

Date

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Project:
**KLAWOCK AIRPORT
SAND & CHEMICAL
STORAGE BUILDING**

AKSAS # 67996
AIP # 5-02-01A-0801

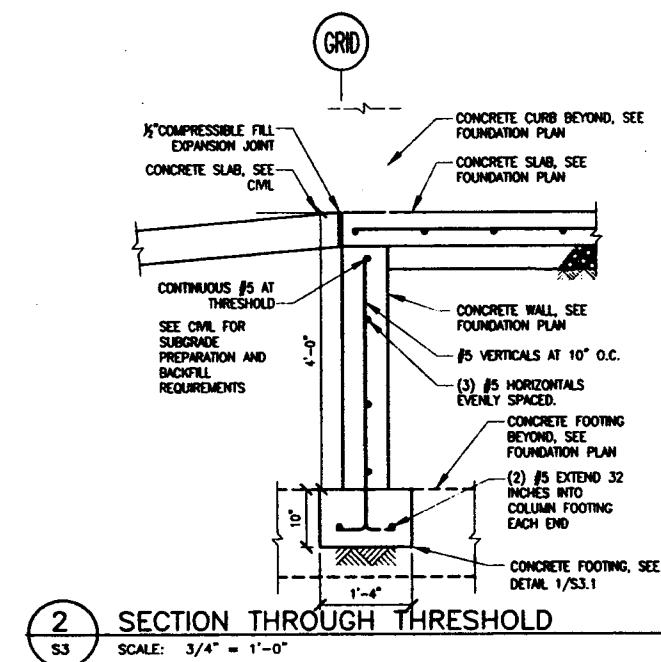
STATE OF ALASKA
Dept. of Transportation
and Public Facilities
Southeast Region

Project Mgr. _____
Drawn _____
Checked _____
Date July 2, 2001

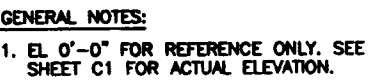
Sheet Contents:
**FOUNDATION
PLAN**

Sheet No.:
S2

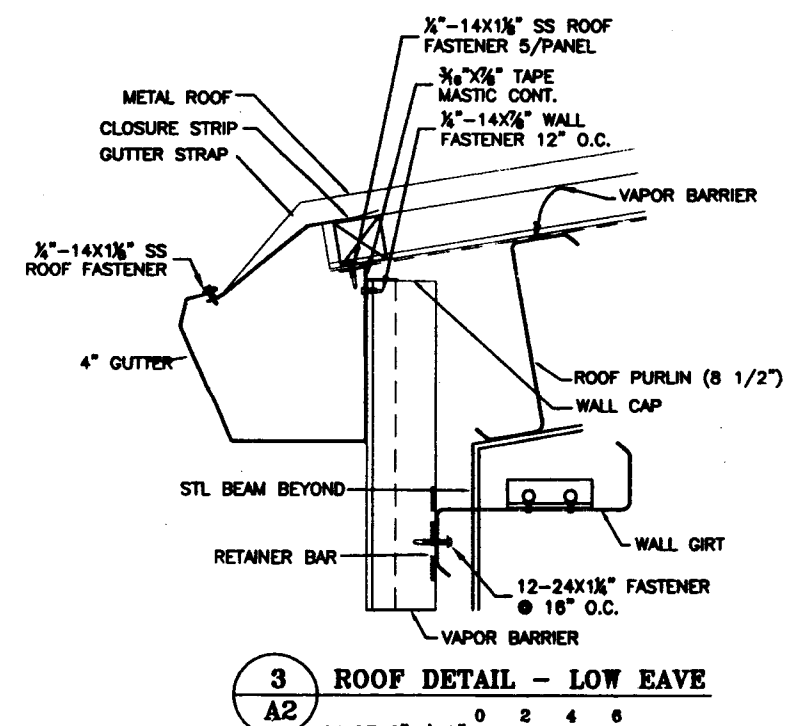
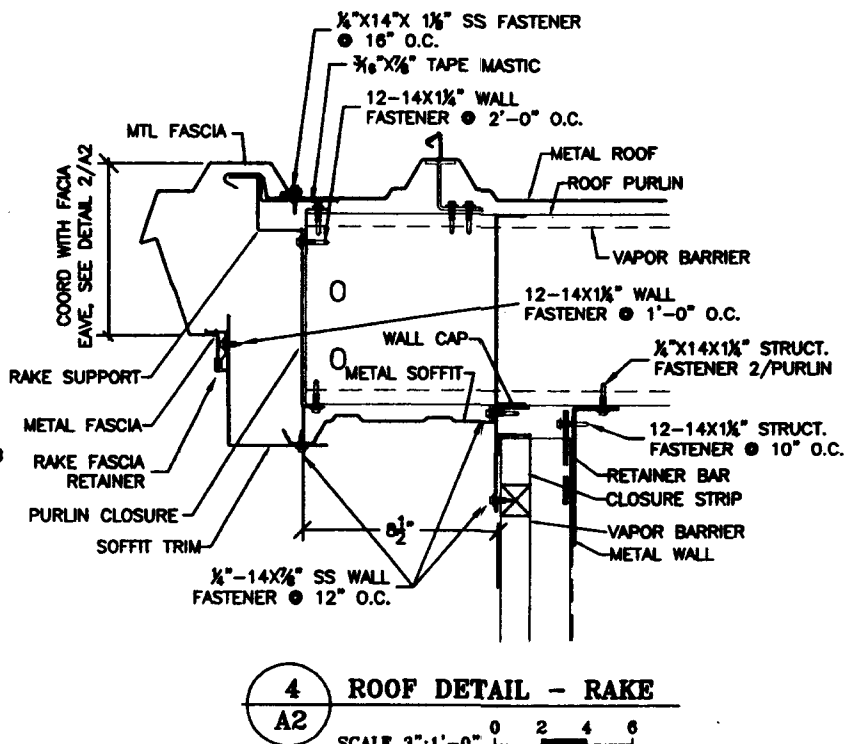
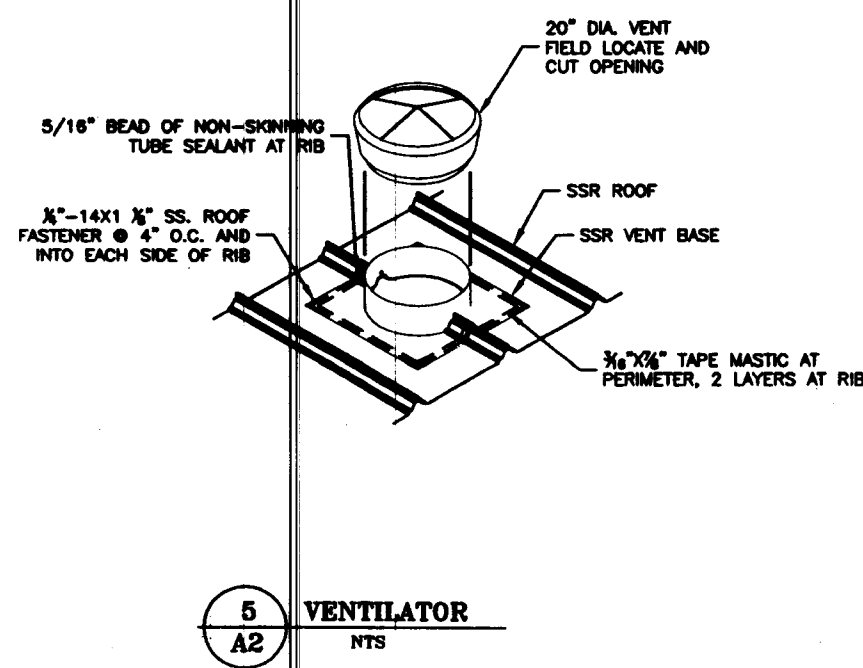
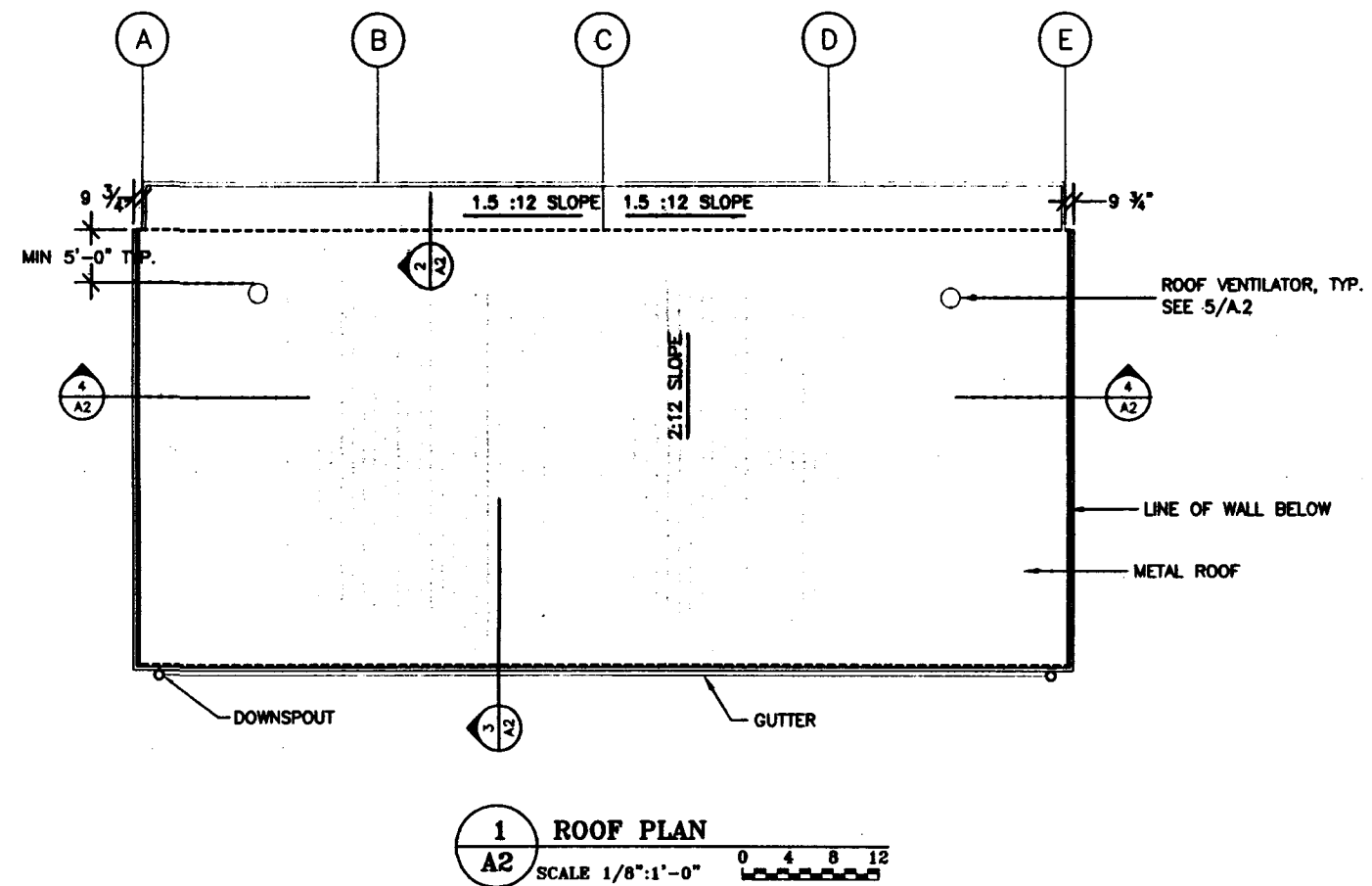
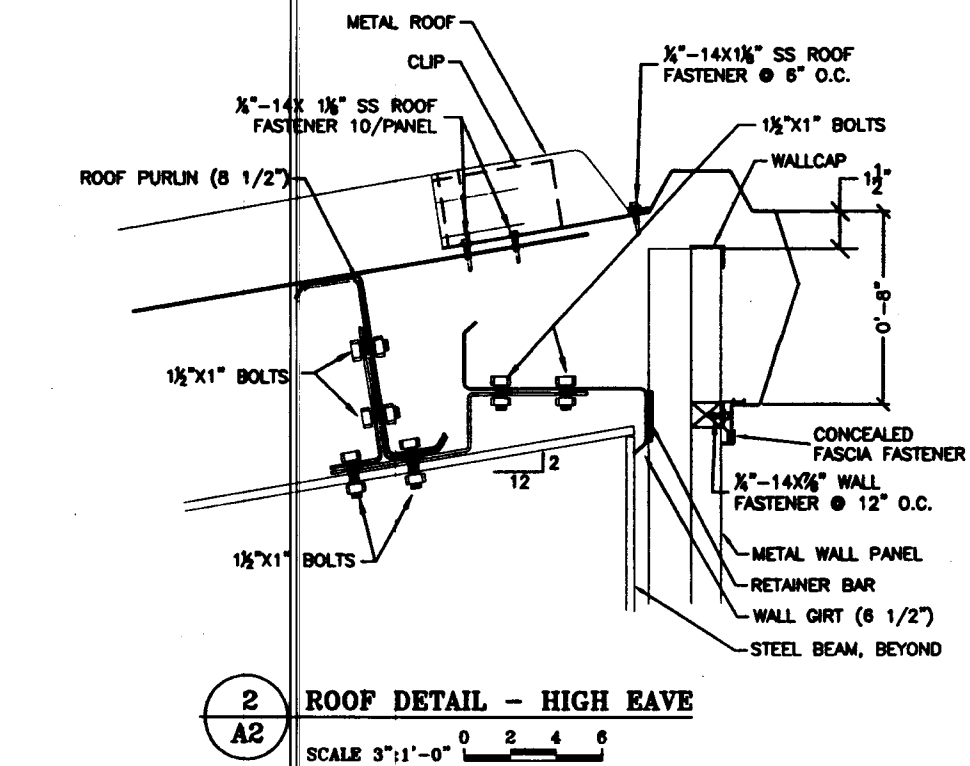
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 USKH Architecture • Engineering Land Surveying • Planning 2515 'N' Street Anchorage, Alaska 99503 (907) 276-4245 1830 Second Avenue Fairbanks, Alaska 99701 (907) 452-2128 3051 Clinton Drive Sella 200 Juneau, Alaska 99801 (907) 790-2901 290 North Willow Street Healy, Alaska 99824 (907) 378-7815	
Project:	
KLAWOCK AIRPORT SAND & CHEMICAL STORAGE BUILDING	
AKSAS # 07908 AEP # 5-02-0164-0001	
STATE OF ALASKA Dept. of Transportation and Public Facilities Southeast Region	
Project Mgr.	
Drawn	BEH
Checked	
Date	July 2, 2001
Sheet Contents:	
FOUNDATION DETAILS	
Sheet No.:	
S3	
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STATE OF ALASKA
JAMES A. COVIL
Professional Engineer
No. 35569

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Project:
**KLAWOCK AIRPORT
SAND & CHEMICAL
STORAGE BUILDING**

AKSAS # 87886
ADP # 3-08-0154-0801

STATE OF ALASKA
Dept. of Transportation
and Public Facilities
Southeast Region

Project Mgr.	
Drawn	WHL
Checked	ER
Date	July 2, 2001

Sheet Contents:
**ROOF PLAN
& DETAILS**

Sheet No.:
A2

USKH W.O. 629200