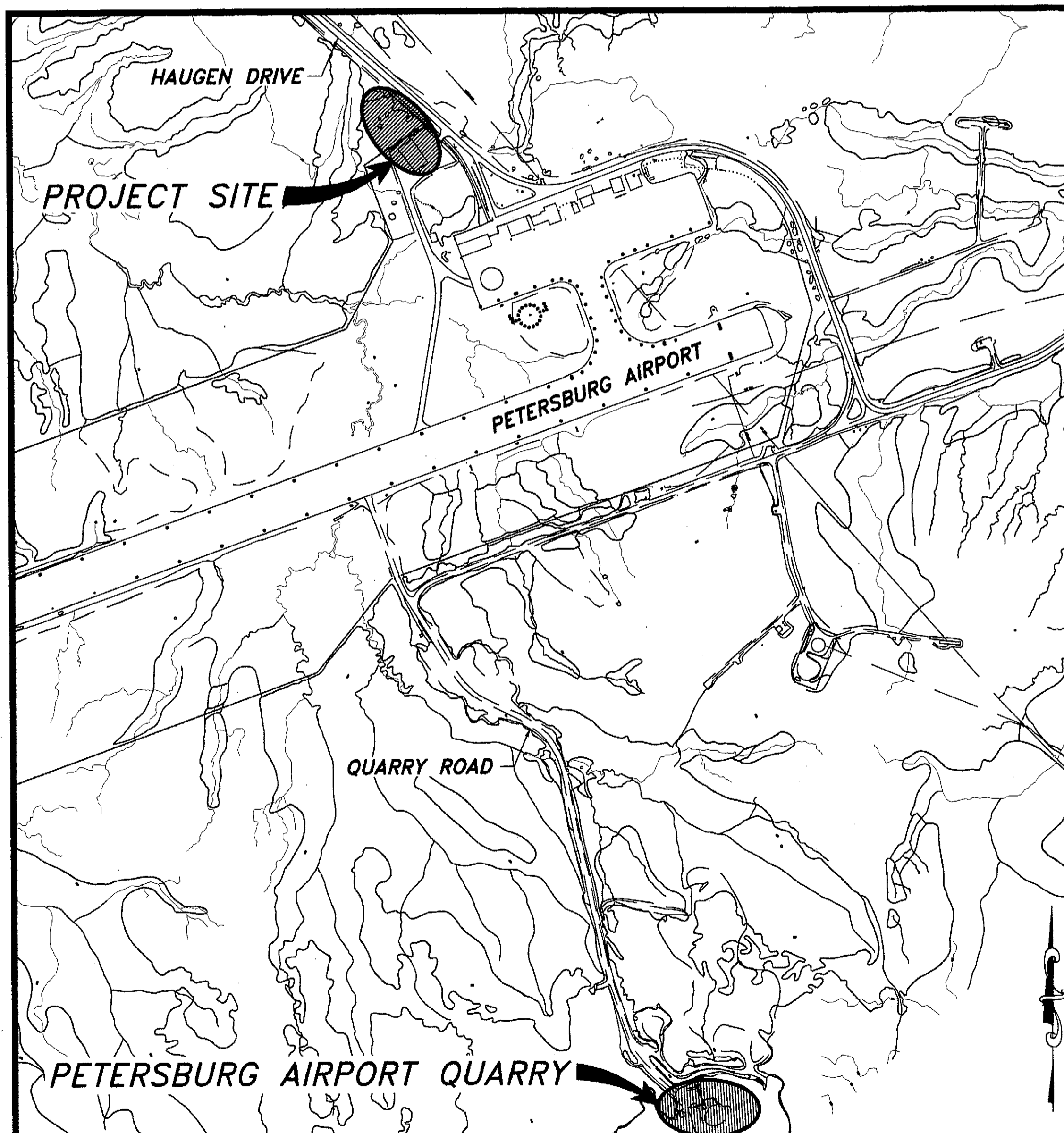


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG, ALASKA
PETERSBURG AIRPORT SAND
AND CHEMICAL STORAGE BUILDING
PROJECT NO. 68386/AIP 3-02-0219-0903



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C3	EROSION AND SEDIMENT CONTROL PLAN
C4	SITE CROSS SECTIONS
C5	CONSTRUCTION DETAILS
C6	SEWER PLAN AND DETAILS
C7	FENCE DETAILS
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E302	RISER DIAGRAMS

AS-BUILT PLANS

CONTRACTOR: KEYSTONE ASSOCIATES, INC.
PROJECT ENGINEER: DAVID SCHAFER (WEED ENGINEERING)
BEGIN DATE: MARCH 15, 2004
END DATE: DECEMBER 31, 2004

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED
Jack D. Riedle Date 10/10/03
Patrick J. Kemp, P.E.
Regional Preconstruction Engineer

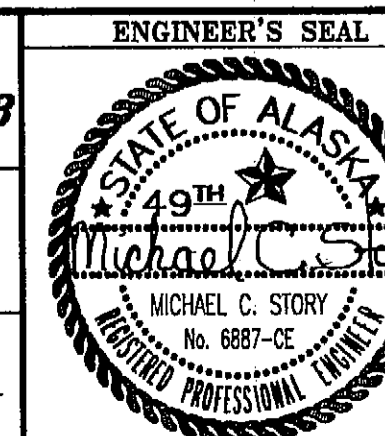
APPROVED
Gary Paxton Date 10/10/03
Gary Paxton
Regional S.E. Director

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

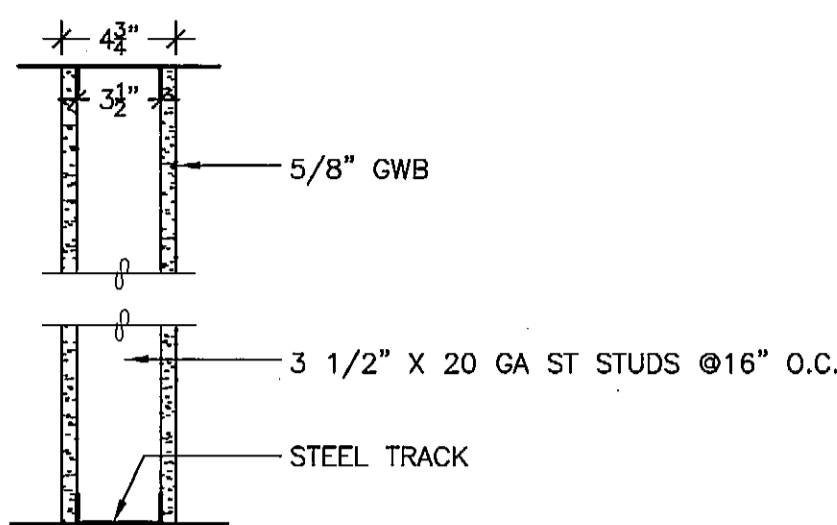
PROJECT NUMBER: 68386
AIP 3-02-0219-0903

DATE:
OCTOBER 3, 2003

SHEET 1 OF 34



WALL TYPES



A WALL TYPE A - 1 HOUR
Scale: 1-1/2"=1'-0"

NOTE: GA FILE NO WP 1072 (SIMILAR)

NOTES

GENERAL NOTE: PARTITION TYPE EXTENDS FROM CORNER TO CORNER FOR THE WALL ON WHICH THE SYMBOL OCCURS. DETAILS AND NOTES FOR SPECIFIC AREAS TAKE PRECEDENCE OVER WALL TYPES

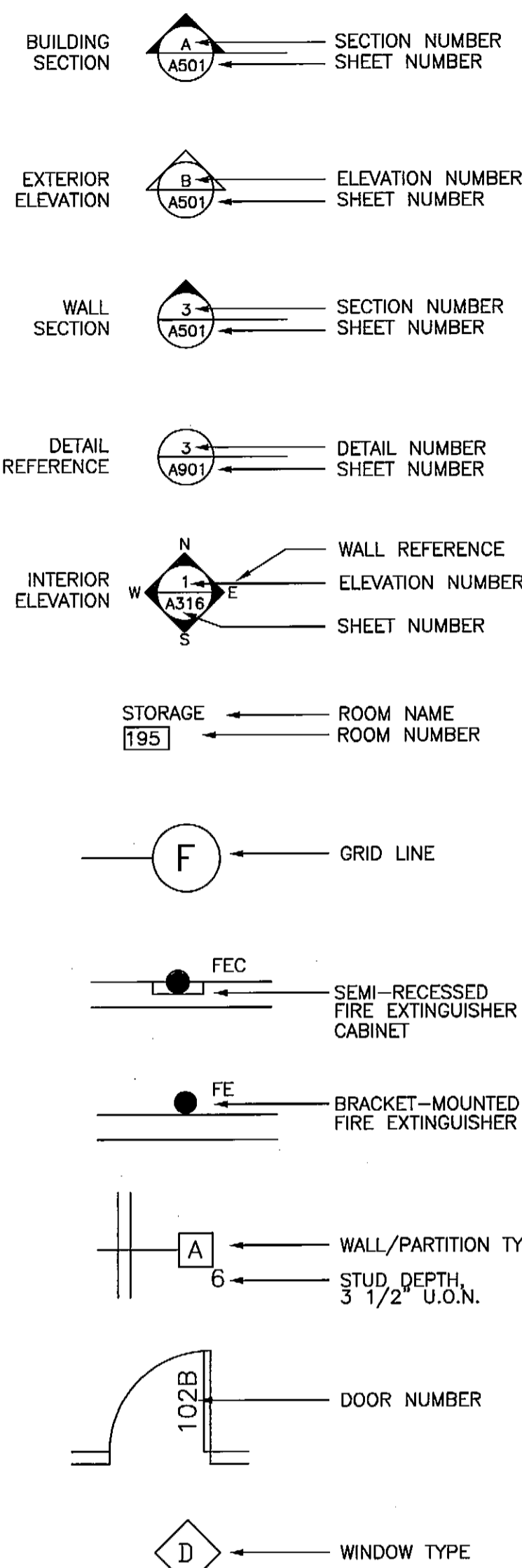
FRAMING: SPACE STUDS AT 16" O.C. UNLESS OTHERWISE NOTED. ALL STUDS AND FURRING 20GA U.O.N. EXTEND METAL STUDS TO ROOF OR FLOOR STRUCTURE ABOVE.

BLOCKING: PROVIDE 14 GA GALV. STEEL SHEET FROM STUD TO STUD AT MOUNTING LOCATIONS FOR HANDRAILS, TOILET ACCESSORIES, OR OTHER WALL MOUNTED DEVICES. ATTACH WITH 3 NO. 12 GALV. SCREWS AT EACH STUD.

ABBREVIATIONS

⊙	AT	EP	ELECTRICAL PANELBOARD	MTD	MOUNTED	RESIST	RESISTANT
AB	ANCHOR BOLT(S)	EQ	EQUAL	MTL	METAL	RGTR	REGISTER
ACOUS	ACOUSTIC(AL)	EOP	EQUIPMENT	MUL	MULLION	RM	ROOM
ADJ	ADJUSTABLE	EXIST	EXISTING	MW	MICROWAVE	RO	ROUGH OPENING
AFF	ABOVE FINISH FLOOR	EXP	EXPANSION	N	NORTH	RTN	RETURN
ALUM	ALUMINUM	EXT	EXTERIOR	NIC	NOT IN CONTRACT	SCHED	SCHEDULE
ARCH	ARCHITECTURAL	FA	FIRE ALARM	NO OR #	NUMBER	SCR	SCRIBE
ASPH	ASPHALT	FD	FLOOR DRAIN	NOM	NOMINAL	SD	SOAP DISPENSER
A/V	AUDIO/VISUAL	FE	FIRE EXTINGUISHER	NTS	NOT TO SCALE	SERV	SERVICES
BD	BOARD	FEC	FIRE EXTINGUISHER CABINET	OA	OVERALL	SIM	SIMILAR
BIO	BIOLOGICAL	FHC	FIRE HOSE CABINET	OC	ON CENTER	SPEC	SPECIFICATIONS
BITUM	BITUMINOUS	FIN	FINISH	OD	OUTSIDE DIAMETER	STC	SOUND TRANSMISSION CLASS
BLDG	BUILDING	FL	FLOOR	OFCI	OWNER FURNISH CONTRACTOR INSTALL	STD	STANDARD
BOD	BOTTOM OF DECK	FOC	FACE OF CONCRETE	OPNG	OPENING	STL	STEEL
BOT	BOTTOM	FOF	FACE OF FINISH	OPP	OPPOSITE	STOR	STORAGE
CB	CATCH BASIN	FOS	FACE OF STUD	OSB	ORIENTED STRAND BOARD	STRUCT	STRUCTURAL
CFB	CEMENT FIBER BOARD	FRP	FIBERGLASS REINFORCED PLASTIC	OWSJ	OPEN WEB STEEL JOIST	\$USP	SUSPENDED
CG	CORNER GUARD	FRT	FIRE-RETARDANT TREATED	PAF	POWDER ACTUATED FASTENER	SS	STAINLESS STEEL
CLG	CEILING	FT	FOOT OR FEET	PIC	POLYISOCYANURATE BOARD INSULATION	TREAD(S), TOILET	
CLR	CLEAR	FURR	FURRING	PL	PLATE	TB	TOWEL BAR
CMU	CONCRETE MASONRY UNITS	GA	GAUGE, GYPSUM ASSOCIATION	PLAM	PLASTIC LAMINATE	TOC	TOP OF CONCRETE
COL	COLUMN	GALV	GALVANIZED	PLYWD	PLYWOOD	TEL	TELEPHONE
CONC	CONCRETE	GB	GRAB BAR	PAIR	PAIR	TEMP	TEMPORARY
CONFIG	CONFIGURATION	GL	GLASS, GLAZING	PRCST	PRE-CAST	TOD	TOP OF DECK
CONF	CONFERENCE	GR	GRADE	PREFIN	PREFINISHED	TP	TOILET PAPER (DISPENSER)
CONT	CONTINUOUS	GYP	GYPSUM	PT	PRESSURE TREATED	TV	TELEVISION
COORD	COORDINATE	GWB	GYPSUM WALL BOARD	PTD	PAPER TOWEL DISPENSER	TYP	TYPICAL
CORR	CORRIDOR	HB	HOSE BIBB	PTN	PARTITION	TS	TUBE STEEL
CPT	CARPET	HDWD	HARDWOOD	PVC	POLY VINYL CHLORIDE	U/C	UNDER COUNTER
DF	DRINKING FOUNTAIN	HT	HEIGHT	Q	QUARTER	UL	UNDERWRITER LABORATORIES
DET	DETAIL	HM	HOLLOW METAL	R	RISERS	UON	UNLESS OTHERWISE NOTED
DIA	DIAMETER	HOR	HORIZONTAL	(R)	REMOVE AND REINSTALL	VERT	VERTICAL
DISP	DISPENSER	INSUL	INSULATION	RAD	RADIUS	VEST	VESTIBULE
DIM	DIMENSION	JAN	JANITOR	RD	ROOF DRAIN	VTR	VENT THROUGH ROOF
DN	DOWN	LAV	LAVATORY	REC	RECEPTION	WC	WATER CLOSET
DS	DOWNSPOUT	LR	LOCKER ROOM	REF	REFERENCE	W/	WITH
DWG	DRAWING	MACH	MACHINE	REFR	REFRIGERATOR	WD	WOOD
(E)	EXISTING	MAX	MAXIMUM	REFR/FRZ	REFRIGERATOR AND FREEZER	WMNS	WOMEN'S
EA	EACH	MECH	MECHANICAL	REINF	REINFORCED, REINFORCING	WP	WATERPROOF
ELEC	ELECTRICAL	MIN	MINIMUM	REQ'D	REQUIRED	WSCT	WAINSCOT
ELEV	ELEVATION	MISC	MISCELLANEOUS	RESIL	RESILIENT	WT	WEIGHT
						(X)	REMOVE

DRAWING LEGEND



FINISH SCHEDULE

ROOM FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOORS		WALLS		CEILING			NOTES	ROOM NO.
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT		
100	Sand Storage	Conc	Sealer	Vapor Ret	None	Vapor Ret	None	Varies	1,3,4,5,7	100
101	Urea Storage	Conc	Sealer	Vapor Ret	None	Vapor Ret	None	Varies	1,4,8	101
102	Urea Mixing	Conc	Sealer	Vapor Ret	None	Vapor Ret	None	Varies	1,2,3,4,5,6,8,9	102
103	Urea Truck	Conc	Sealer	Vapor Ret	None	Vapor Ret	None	Varies	1,2,3,4,5,8	103
104	Boiler/Elec	Conc	Sealer	GWB	PT1	GWB	PT1	9'-0"	2	104

ROOM FINISH SCHEDULE NOTES

NO.	NOTE
1	EXPOSED BUILDING STRUCTURAL STEEL: TOUCH UP FACTORY PRIMER, MATCH COLOR, NO FINISH COAT REQUIRED.
2	INTERIOR STEEL DOOR AND FRAME AND INTERIOR MISCELLANEOUS STEEL TRIM: PAINT PT.3.
3	EXTERIOR STEEL DOOR AND FRAME AND EXTERIOR MISCELLANEOUS GALVANIZED TRIM: PAINT PT.4.
4	OVERHEAD DOOR: TOUCH UP FACTORY FINISH COAT, MATCH MATERIAL AND COLOR.
5	CRANE COLUMN AND BEAMS: PAINT PT.3. LEAVE w/ Red factory Pt.
6	BOILER ROOM PLYWOOD CAP: PAINT PT.2.
7	FRP CLAD ORIENTED STRAND BOARD WAINSCOT TO 7'-8" AT NORTH AND WEST EXTERIOR WALLS.
8	FRP CLAD ORIENTED STRAND BOARD WAINSCOT TO 7'-8" AT EAST AND WEST EXTERIOR WALLS.
9	FRP CLAD ORIENTED STRAND BOARD AT NORTH, SOUTH AND WEST WALLS AT ROOM 104

BUILDING CODE REVIEW

Building Code Review:

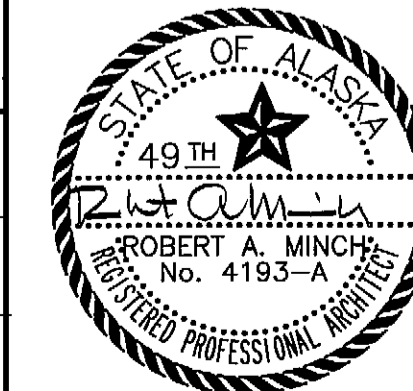
ITEM	New	EXISTING	ALLOWED	IBC REFERENCE
Code used	-	-	-	International Building Code, 2000 Edition
Occupancy	S-2, Parking Garage / Low Hazard Storage	S-2, Parking Garage	-	Section 311.3
Accessory use	F-2, Urea Mixing	B, Office	-	Section 302.2
Construction type	II-B	II-B	-	Section 602.2
Building areas	-	-	-	-
Second Floor	-	579 sf	26,000 sf	Table 503
First Floor	6,758 sf	7,916 sf	26,000 sf	Table 503
Stories	1	2	4	Table 503
Height	24.5 feet +/-	-	55 feet	Table 503
Location on property	>10 ft to P.L.	>10 ft to P.L.	-	-
Fire resistive ratings	-	-	-	-
Structural frame	0 Hour	0 Hour	0 Hour	Table 601
Walls, interior	0 Hour	0 Hour	0 Hour	Table 601
Exterior wall	0 Hour	0 Hour	0 Hour	Table 602
Roof	0 Hour	0 Hour	0 Hour	Table 601
Floor Surface, Parking	Concrete	Concrete	Concrete/ AC	Section 406.6.4
Occupancy Separation	-	-	-	-
Urea Mixing	0 Hour	-	0 Hour	Section 302.2
Boiler Room	1 Hour	-	1 Hour	Table 302.1.1

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PLANS DEVELOPED BY:
MINCH RITTER VOELCKERS ARCHITECTS

NOTE:
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

ARCHITECT'S SEAL



PATH:	DATE:	DESCRIPTION OF CHANGE:

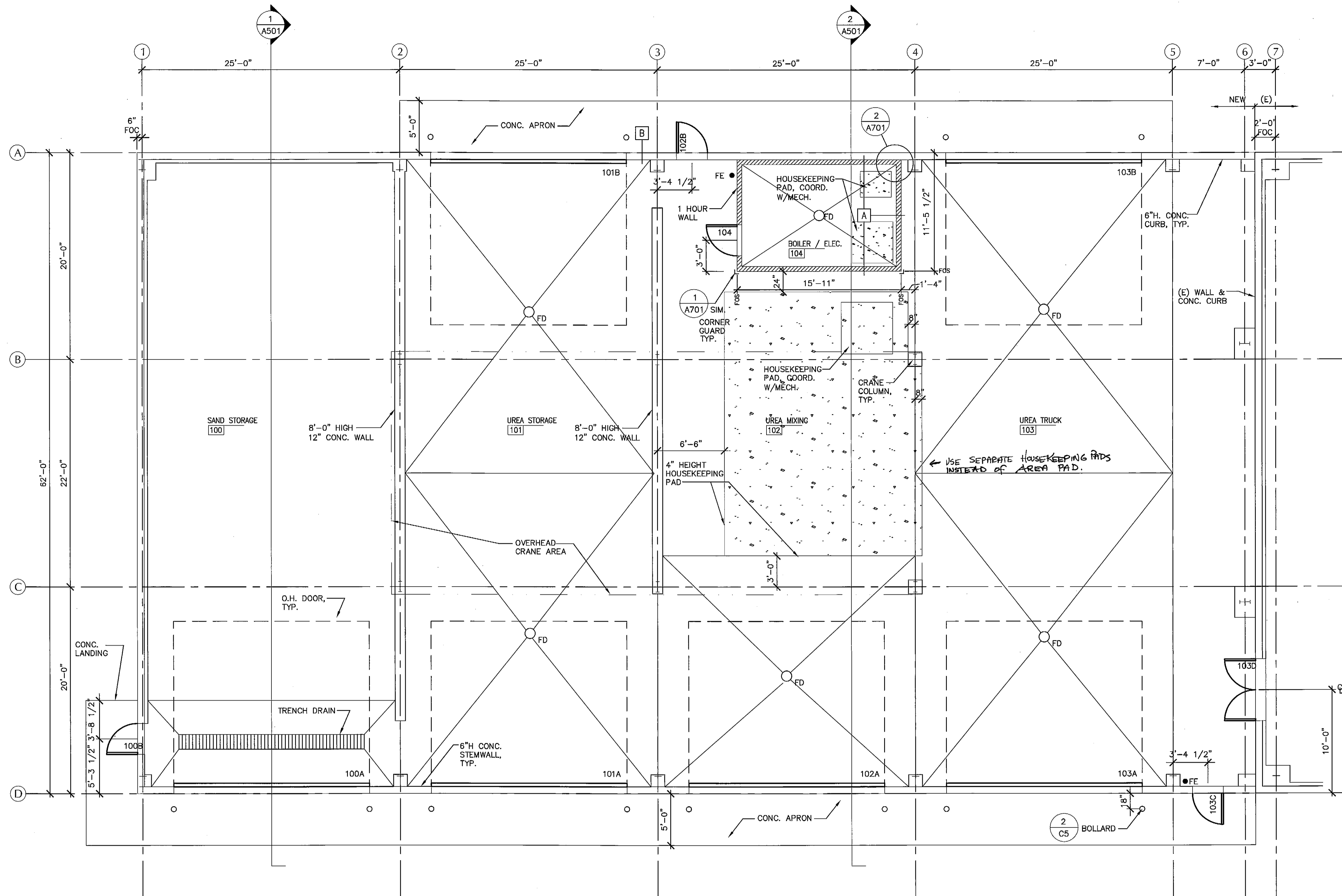
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ALASKA

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DRAWN BY: DE/MPA	DATE: OCTOBER 3, 2003
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1 FIRST FLOOR PLAN
Scale: 3/16" = 1'-0"

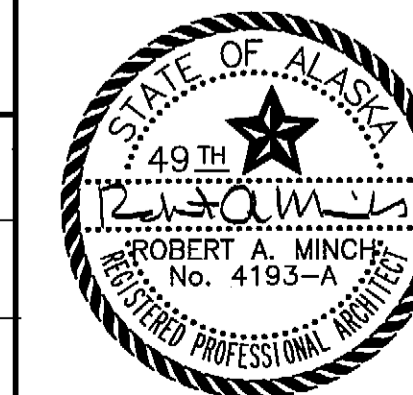


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PLANS DEVELOPED BY:
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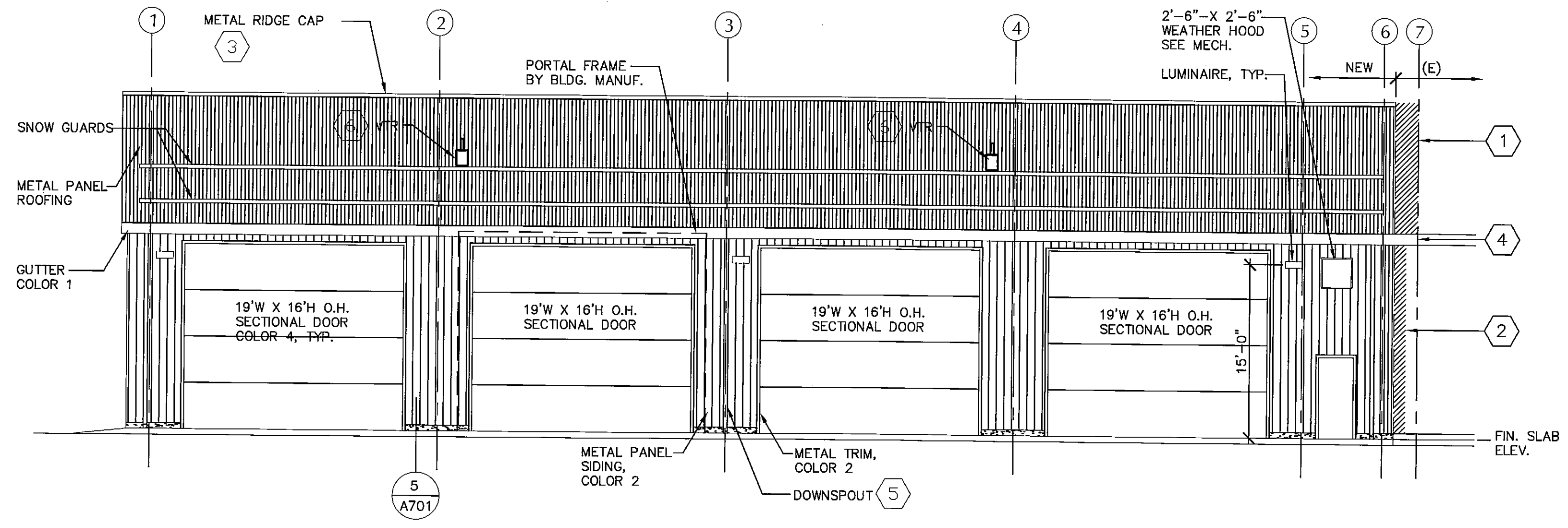
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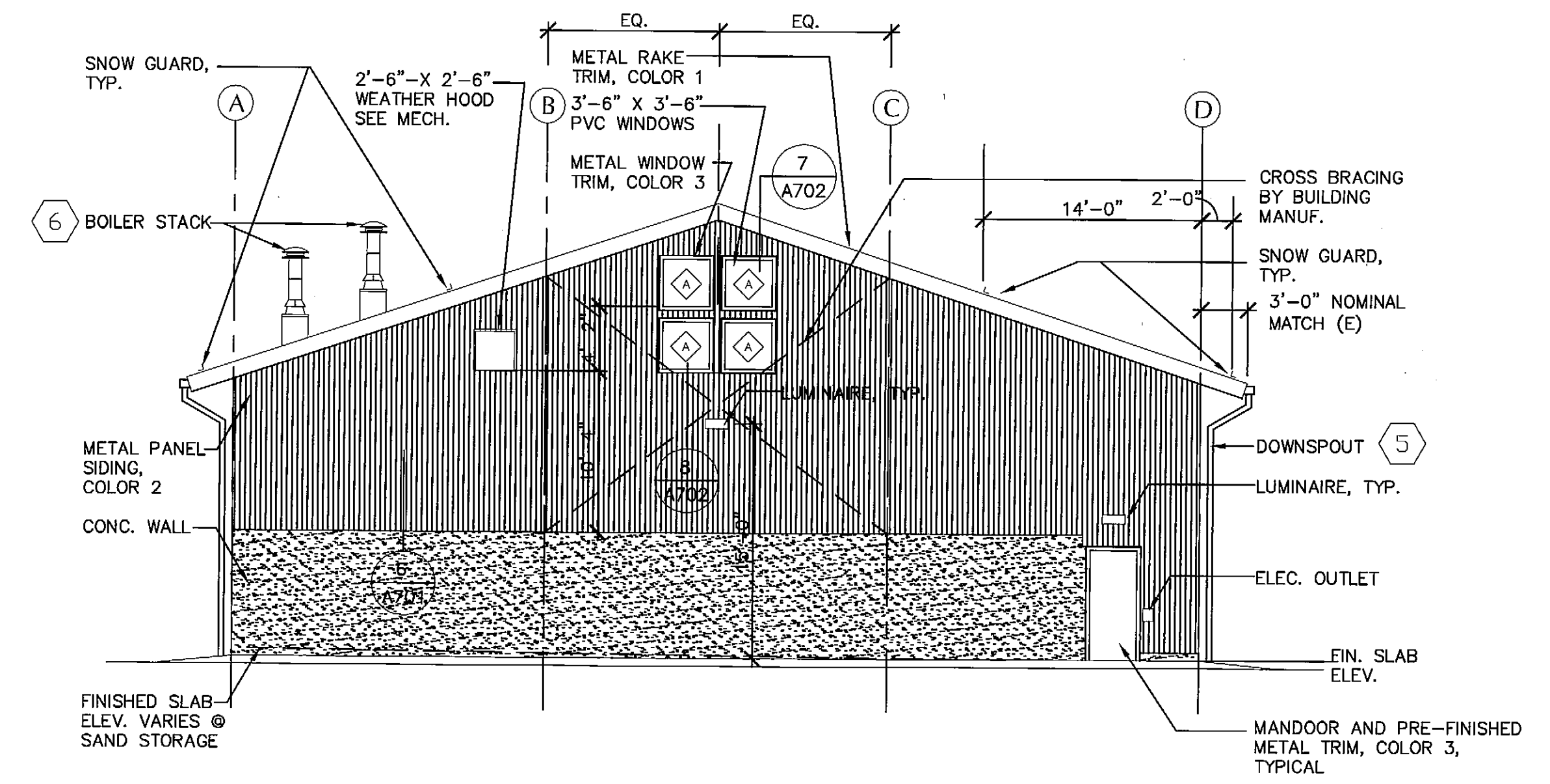
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OCTOBER 3, 2003

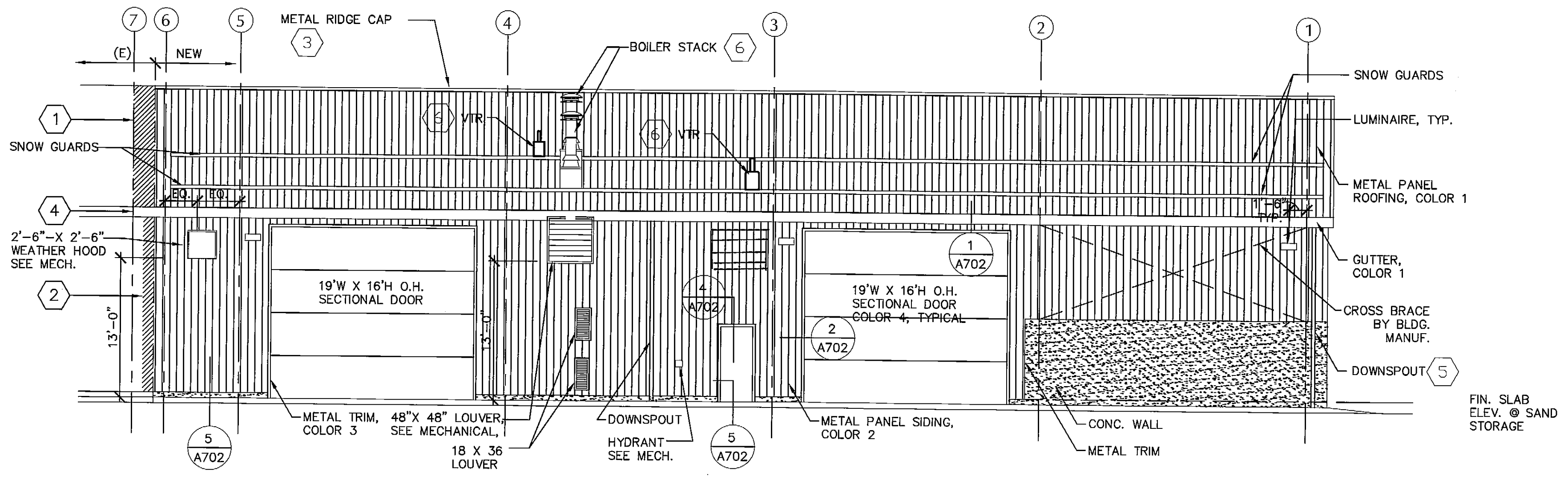
SHEET A201 OF 34



1 WEST ELEVATION
Scale: 1/8" = 1'-0"



2 NORTH ELEVATION
Scale: 1/8" = 1'-0"



3 EAST ELEVATION
Scale: 1/8" = 1'-0"

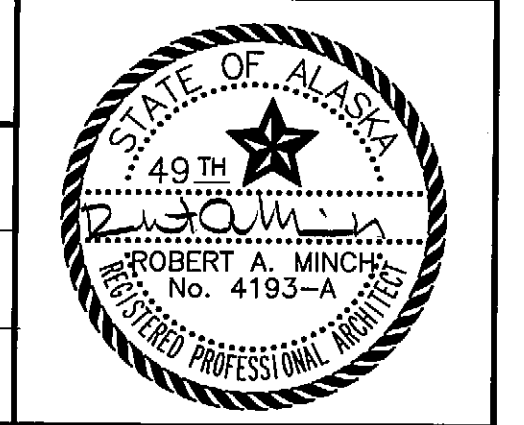
SHEET NOTES

- 1 REMOVE (E) METAL ROOFING PANEL AND RAKE TRIM AS REQUIRED. INSTALL NEW ROOF PANEL OVERLAPPING, SEALED AND FASTENED TO (E) PANEL.
- 2 REMOVE (E) METAL CORNER TRIM AND WALL PANEL AS REQUIRED. INSTALL NEW WALL PANELS OVERLAPPING, SEALED AND FASTENED TO (E) PANEL.
- 3 MATCH (E) VENTILATOR / RIDGE CAP, MODIFYING (E) VENTILATOR/ RIDGE CAP AS REQUIRED. OVERLAP, SEAL AND FASTEN NEW AND (E) CAPS.
- 4 MATCH (E) GUTTER, MODIFYING (E) GUTTER AS REQUIRED. OVERLAP, SEAL AND FASTEN NEW AND (E) GUTTERS.
- 5 4"X6" PREFINISHED METAL DOWNSPOUT COLOR 2, TYPICAL. CONTINUES FROM GUTTER. SEE 3/CS FOR CONNECTION.
- 6 SEE MECHANICAL FOR CURB.
- 7 BOLLARDS NOT SHOWN, SEE 1/A201.
- 8 GENERAL CONTRACTOR SHALL: COORDINATE LOCATIONS OF EXTERIOR LUMINAIRES WITH STRUCTURE, DOOR OPERATORS AND OTHER ITEMS.
- 9 GENERAL CONTRACTOR SHALL: INSTALL MISCELLANEOUS STEEL FRAME WORK REQUIRED TO SUPPORT ALL EXTERIOR LUMINAIRES.

DRAWINGS PRINTED ON 11"x17" ARE DRAWN 1/2 PRINTED SCALE

PLANS DEVELOPED BY:
MINCH RITTER VOELCKERS ARCHITECTS

NOTE:
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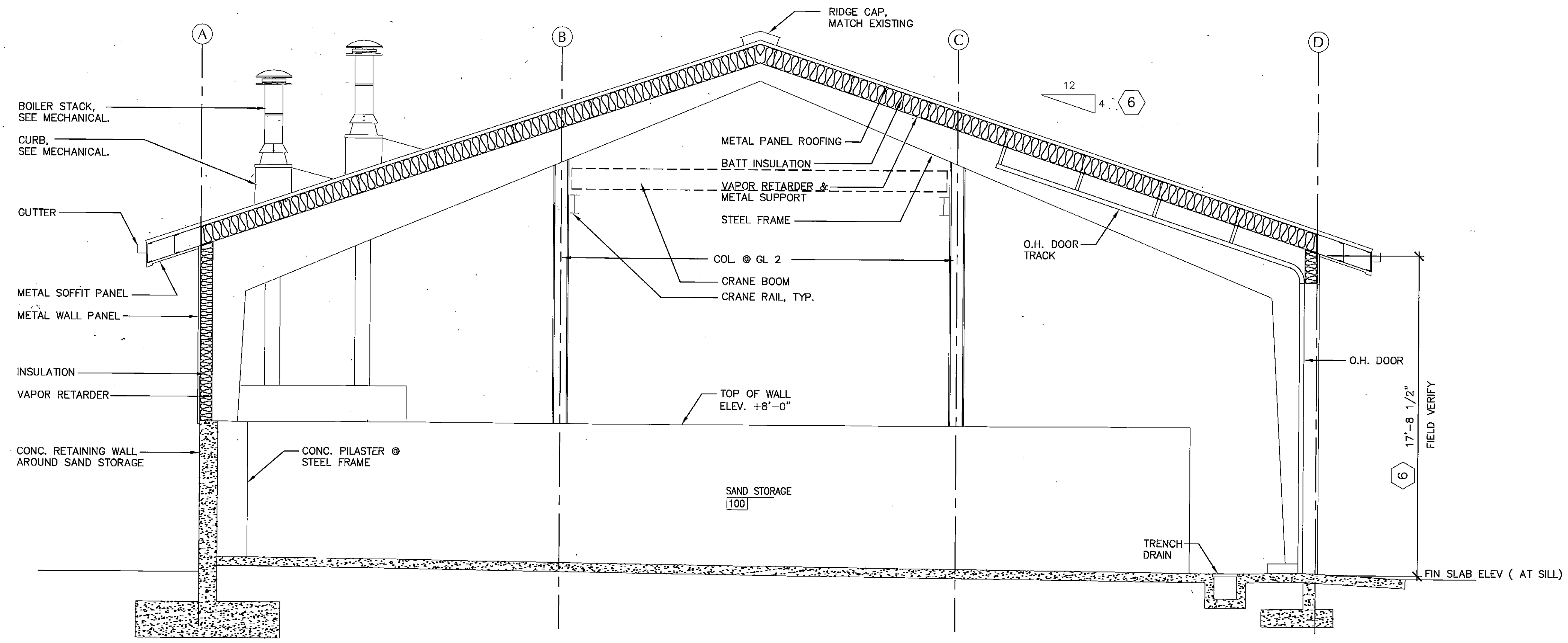


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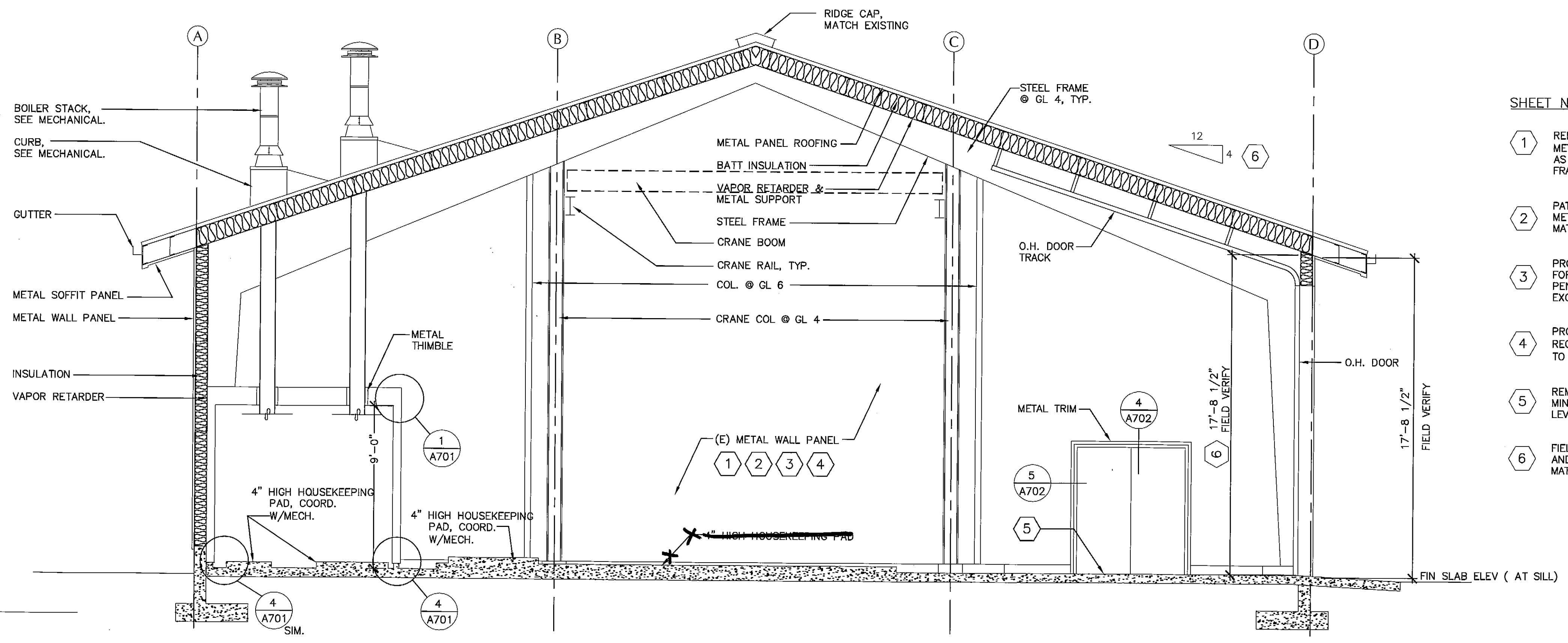
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1 BUILDING SECTION
Scale: 1/4" = 1'-0"



2 BUILDING SECTION
Scale: 1/4" = 1'-0"

SHEET NOTES

- 1 REMOVE AND REINSTALL PORTION OF (E) METAL WALL PANEL AT (E) EXTERIOR WALL AS REQUIRED TO INSTALL NEW ROOF FRAMING.
- 2 PATCH (E) UNUSED OPENINGS IN (E) METAL WALL PANELS WITH MATCHING MATERIAL. SEAL AIR TIGHT.
- 3 PROVIDE OPENING IN (E) WALL PANELS FOR NEW MECHANICAL AND ELECTRICAL PENETRATIONS. PROVIDE METAL TRIM OR EXCUTCHEONS AND SEAL AIR TIGHT.
- 4 PROVIDE NEW STEEL FRAMING AS REQUIRED TO ATTACH (E) WALL PANELS TO (E) STEEL FRAMING.
- 5 REMOVE (E) CURB AT NEW DOOR TO 1/4" MINIMUM BELOW FINISHED SLAB. PATCH LEVEL WITH CEMENTITIOUS FILL.
- 6 FIELD VERIFY ROOF PITCH AND EAVE HEIGHT, MATCH EXISTING.

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PLANS DEVELOPED BY:
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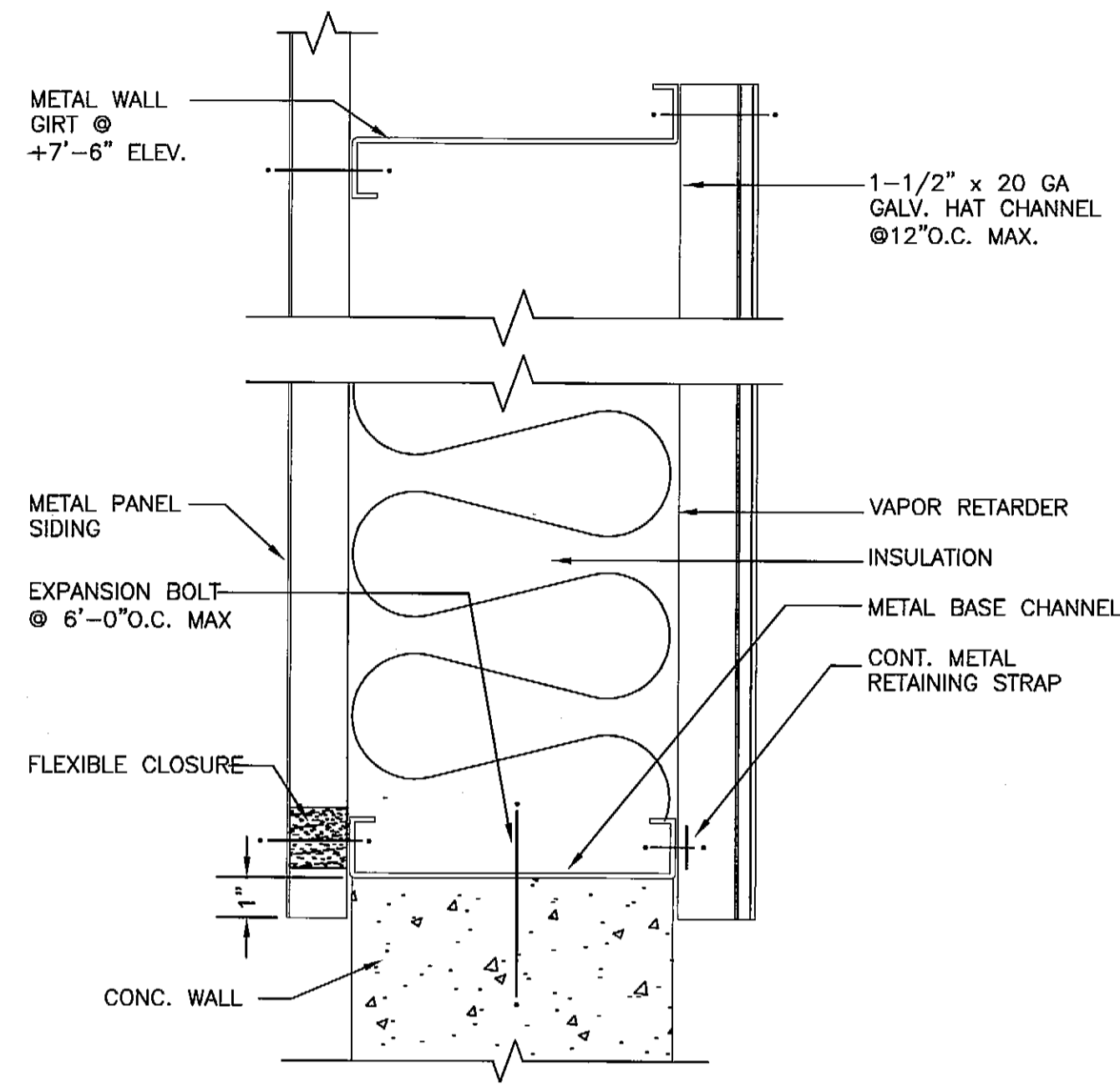
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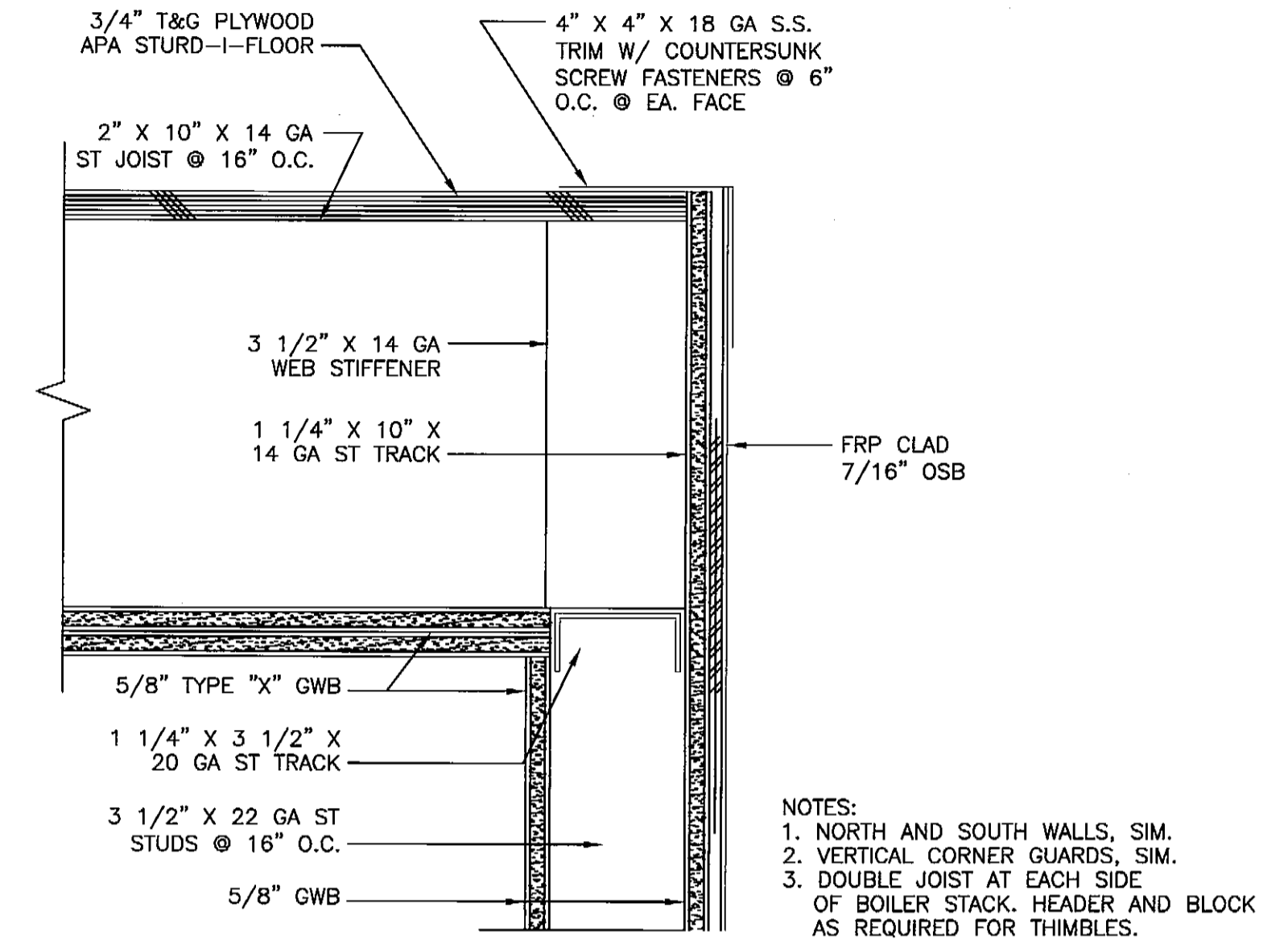
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AIP 3-02-0219-0903
DATE:
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SHEET A501 OF 34

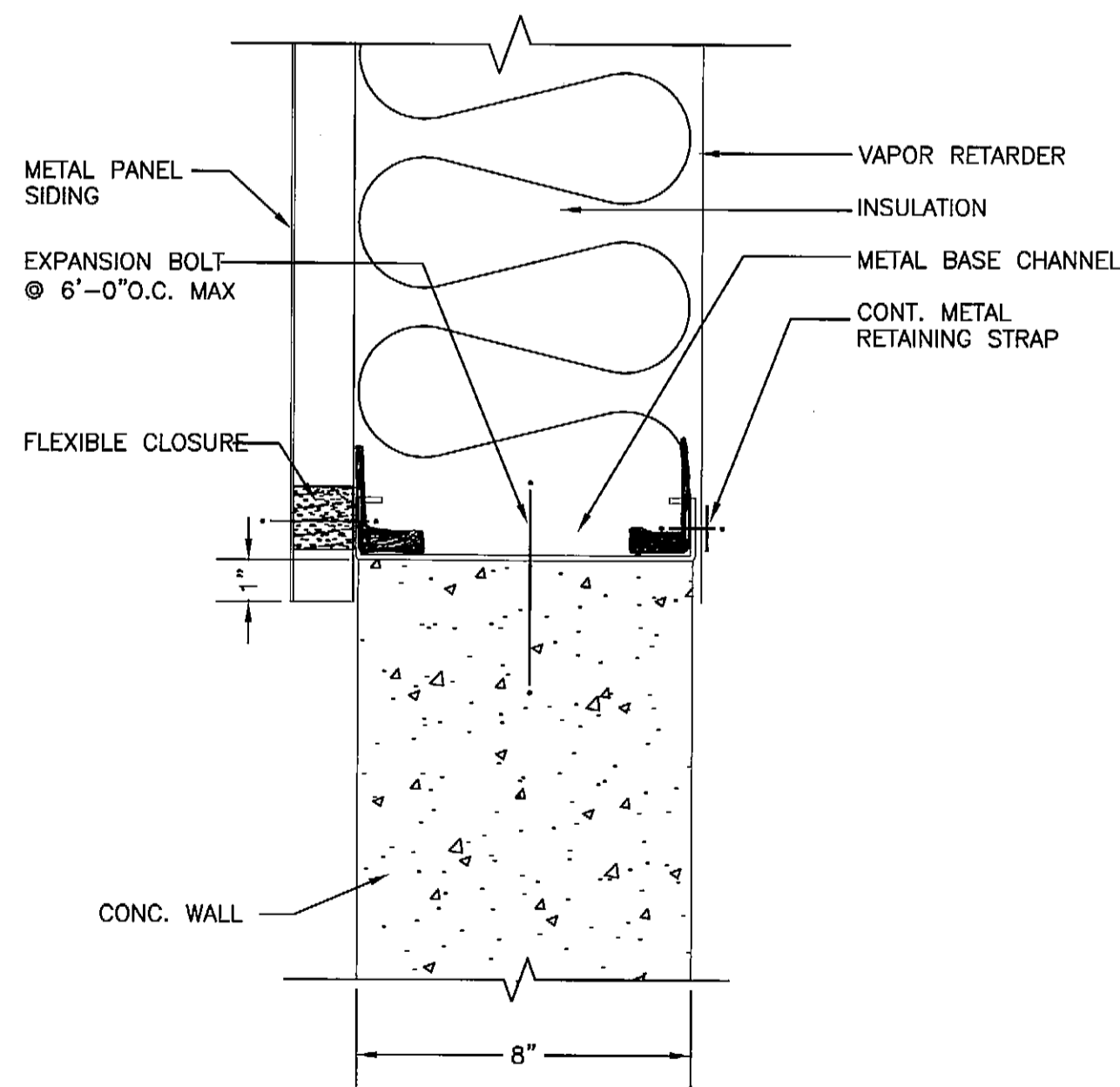


5 SIDE WALL DETAIL
Scale: 3"=1'-0" SIDE_WALL_DETAIL

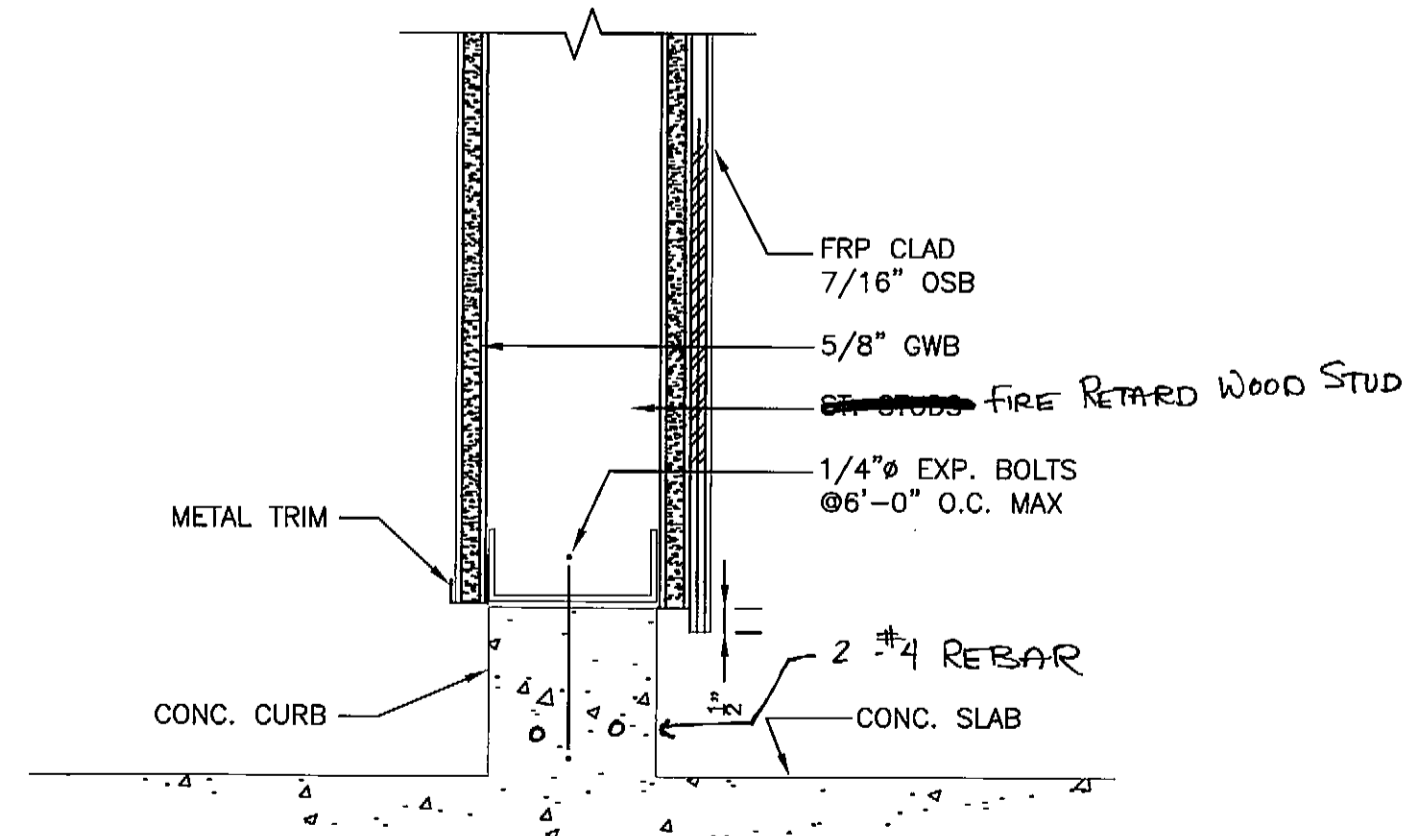
3 NOT USED
Scale: 3"=1'-0" NOT_USED



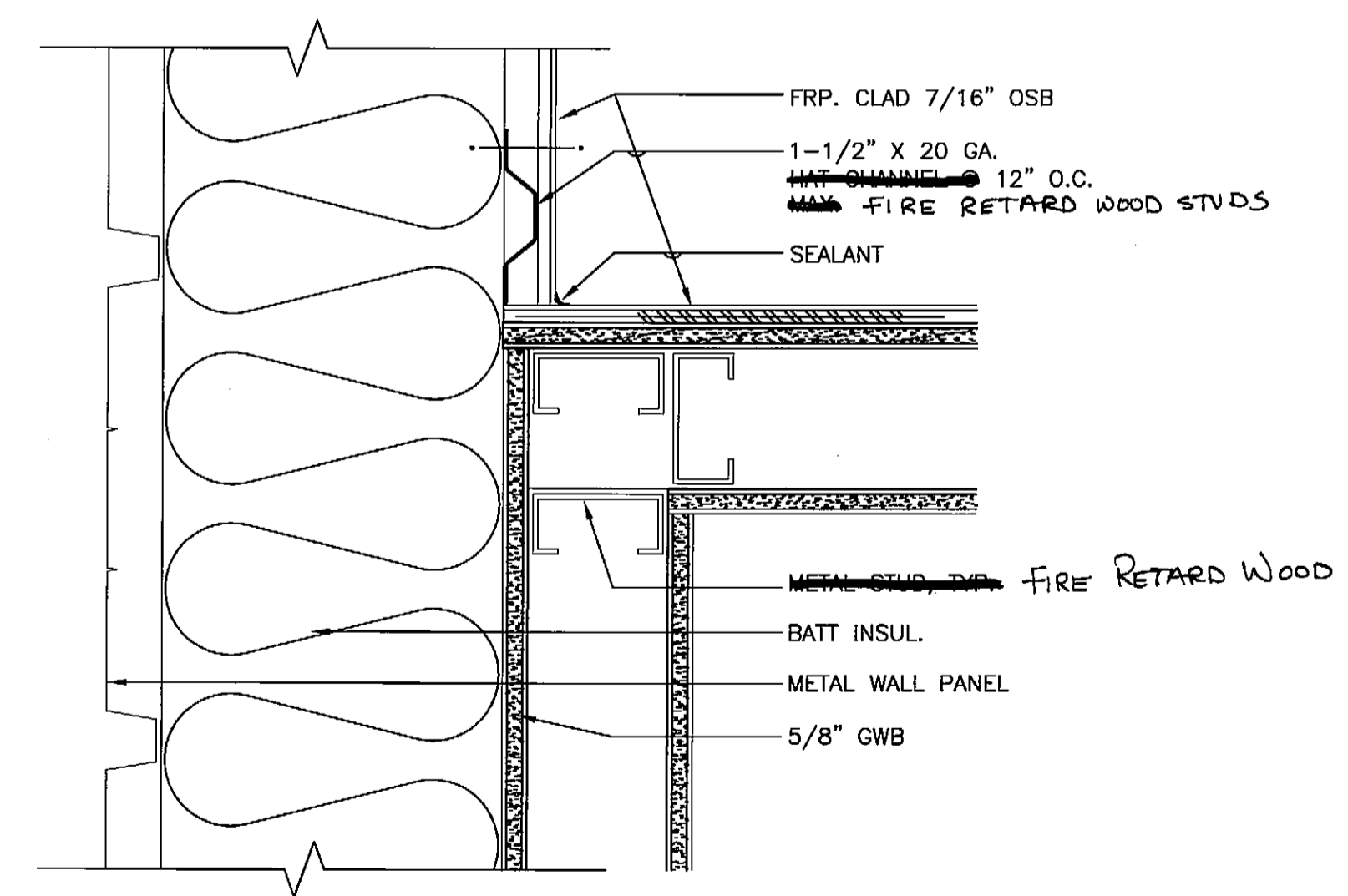
1 CEILING FRAMING
Scale: 3"=1'-0" MEZANNINE FRAMING



6 END WALL DETAIL
Scale: 3"=1'-0" END_WALL_DETAIL



4 CURB DETAIL
Scale: 3"=1'-0" CURB_DETAIL
NOTE: NORTH AND SOUTH WALLS, SIM.



2 WALL INTERSECTION
Scale: 3"=1'-0" WALL_INTERSECTION
NOTE: NORTH AND SOUTH WALLS, SIM.

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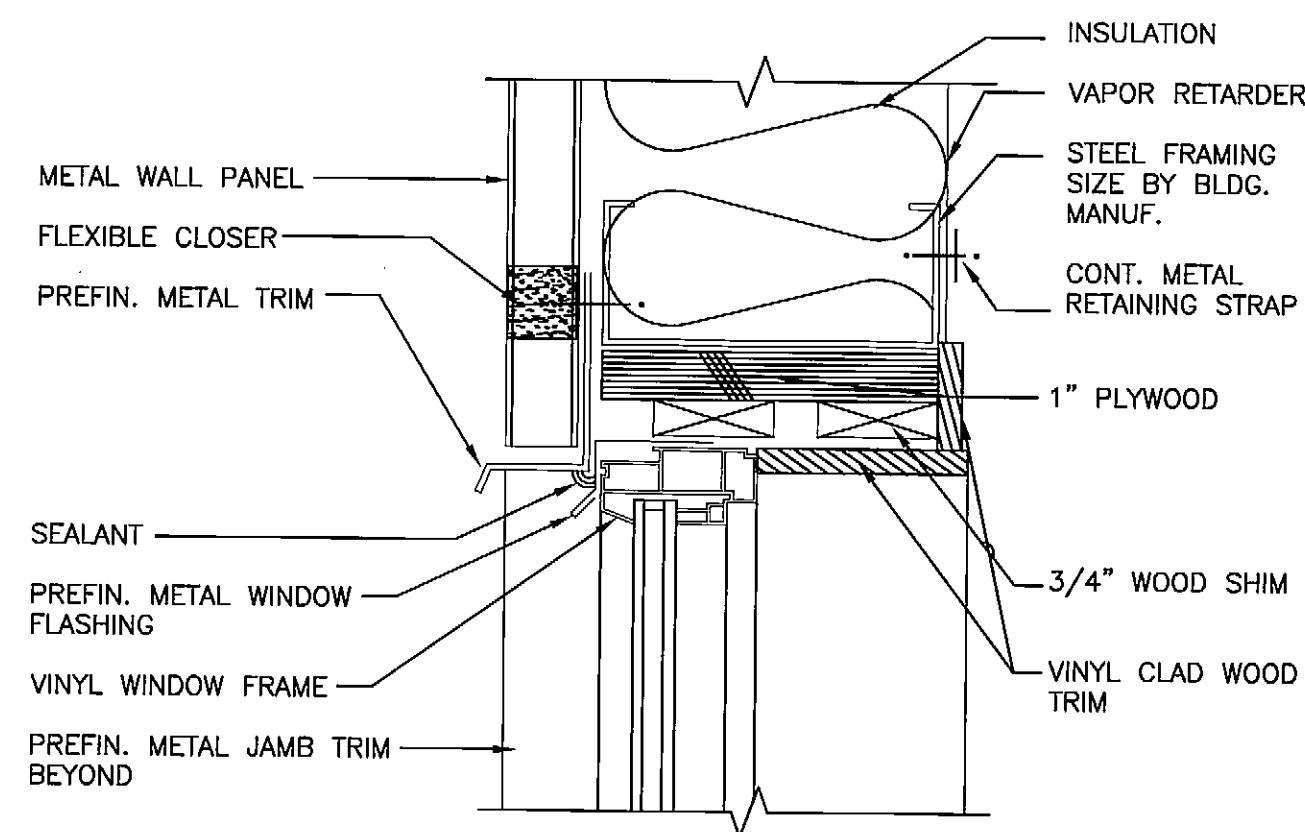
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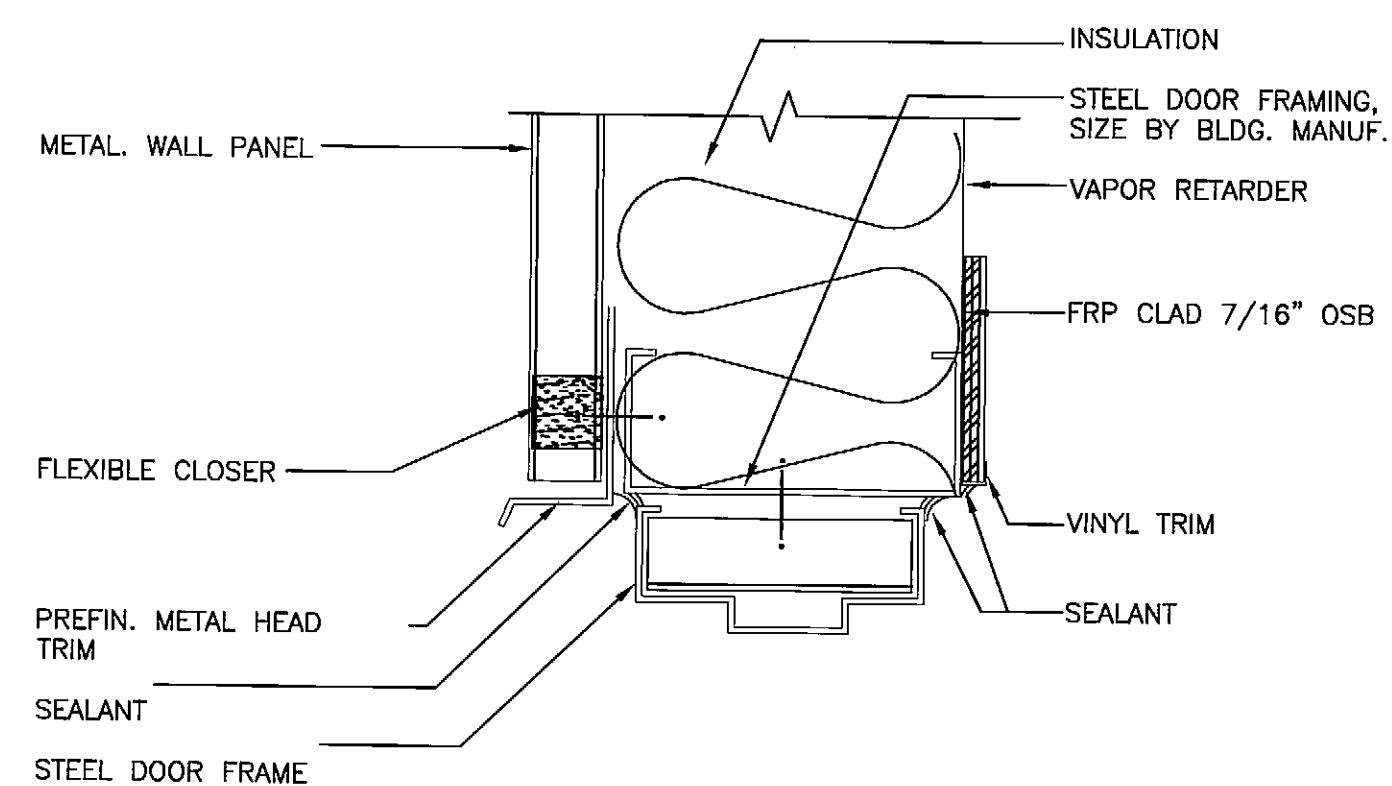
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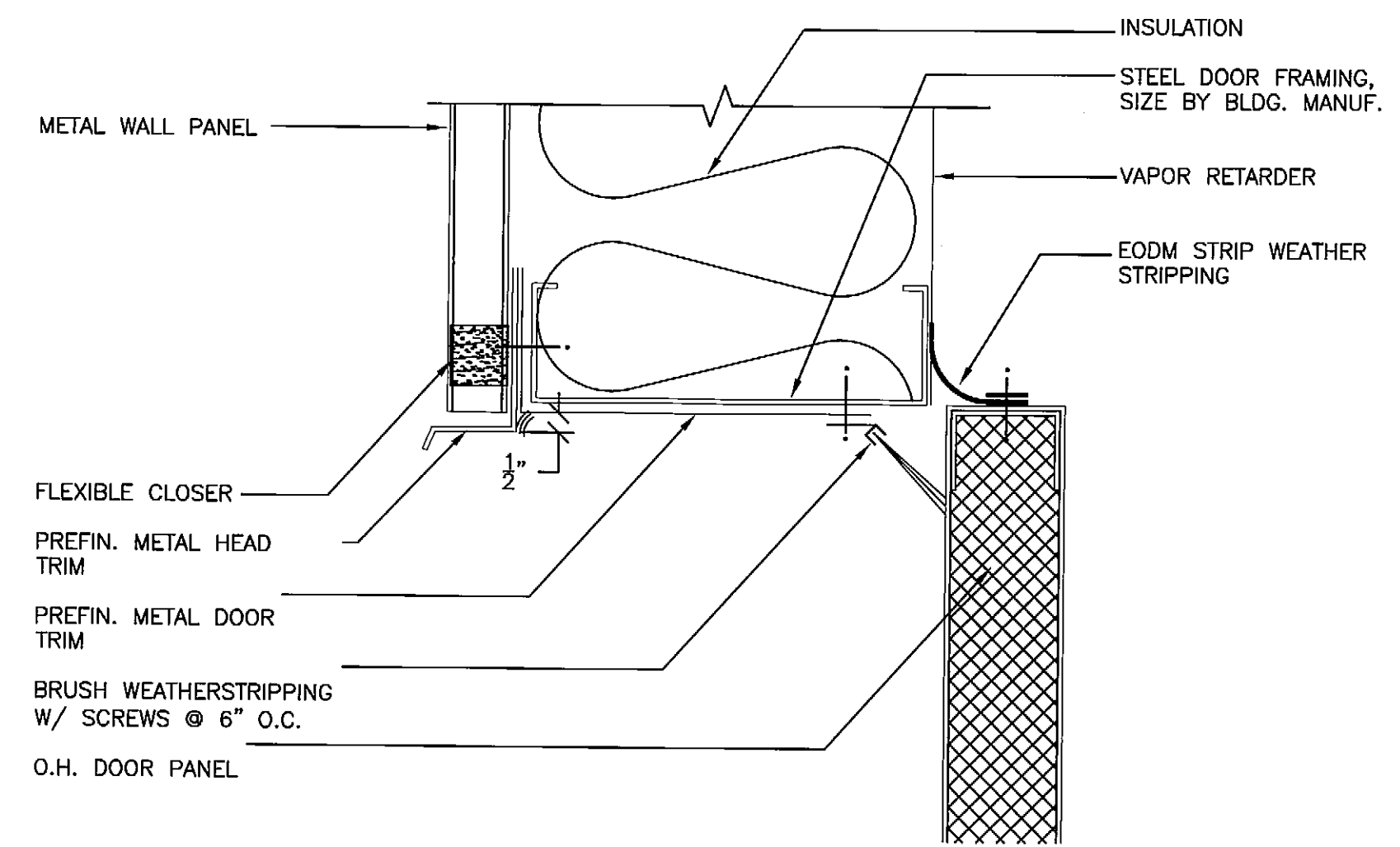
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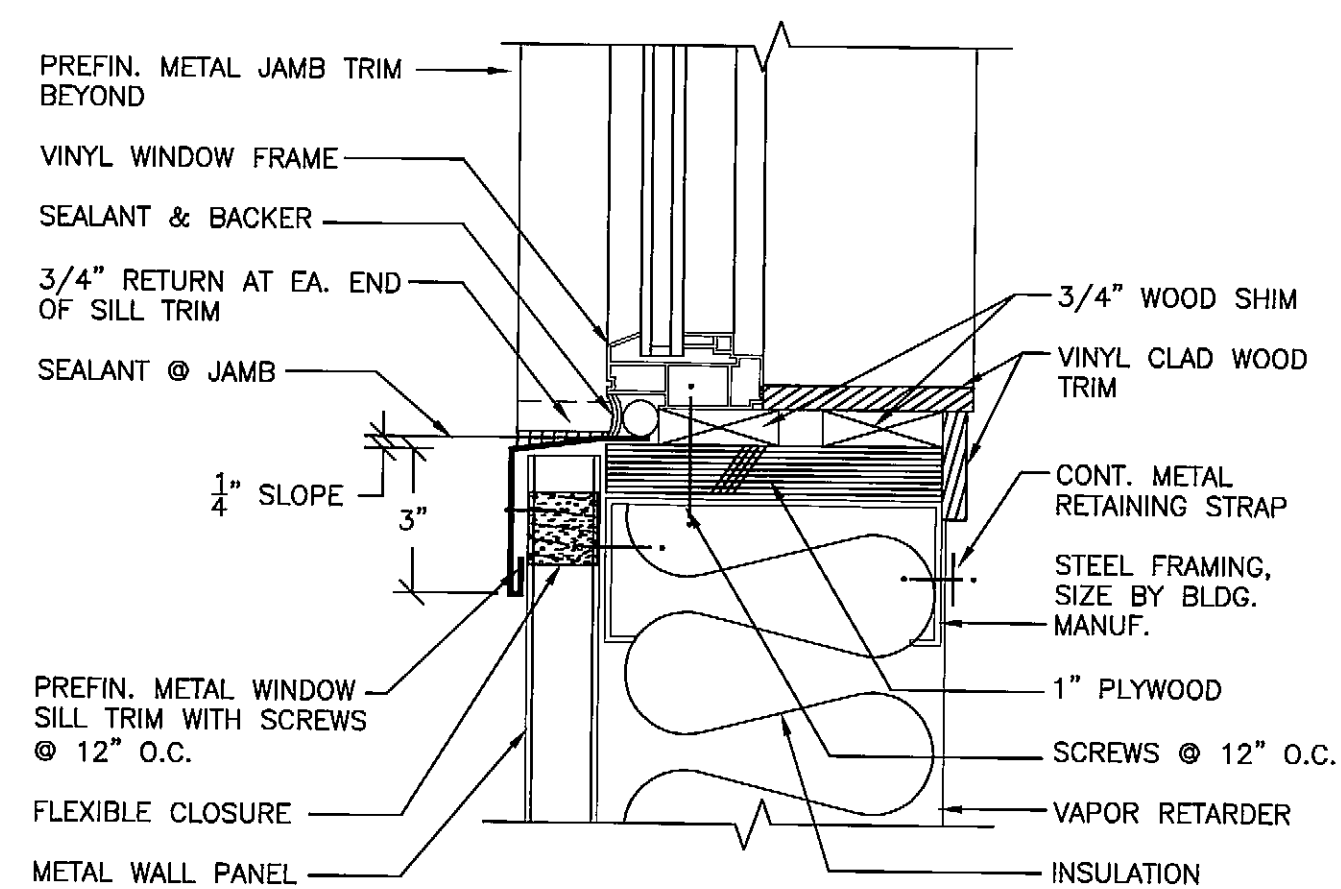
7 WINDOW HEAD DETAIL
Scale: 3"=1'-0"
WINDOW_HEAD



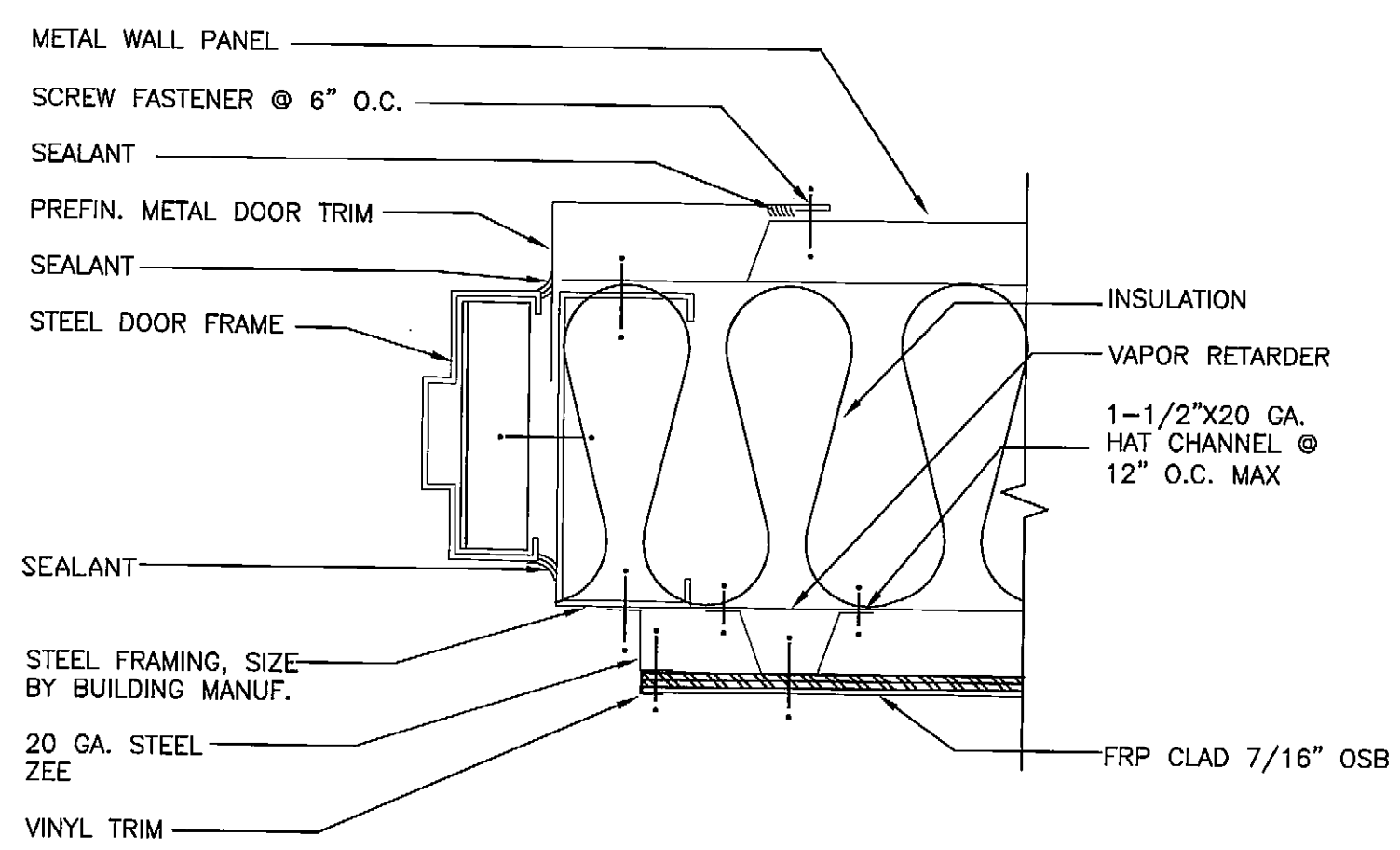
4 MAN DOOR HEAD DETAIL
Scale: 3"=1'-0"
DOOR_HEAD



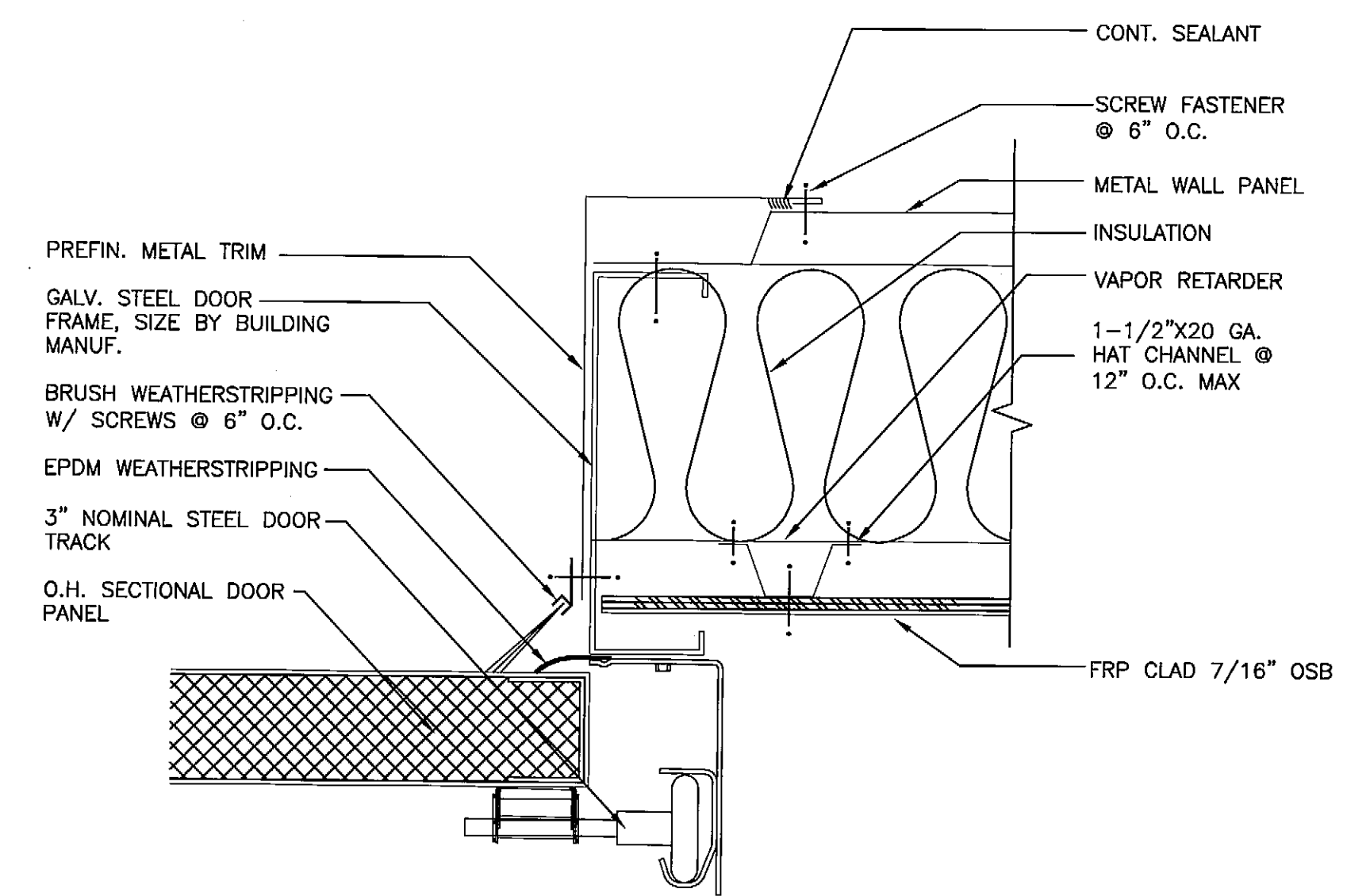
1 OVERHEAD DOOR HEAD
Scale: 3"=1'-0"
DOOR_OVER_HEAD



8 WINDOW SILL DETAIL
Scale: 3"=1'-0"
WINDOW_SILL



5 MAN DOOR JAMB DETAIL
Scale: 3"=1'-0"
DOOR_JAMB



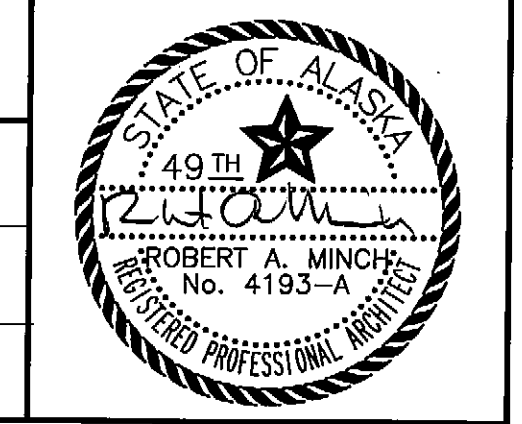
2 OVERHEAD DOOR JAMB
Scale: 3"=1'-0"
DOOR_OVER_JAMB

NOTE: TERMINATION OF WAINSCOT SIMILAR AT STEEL MAIN FRAMES.

DRAWINGS PRINTED ON 11"x17" ARE DRAWN 1/2" PRINTED SCALE

PLANS DEVELOPED BY:
MINCH RITTER VOELCKERS ARCHITECTS

NOTE:
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ARCHITECT'S SEAL

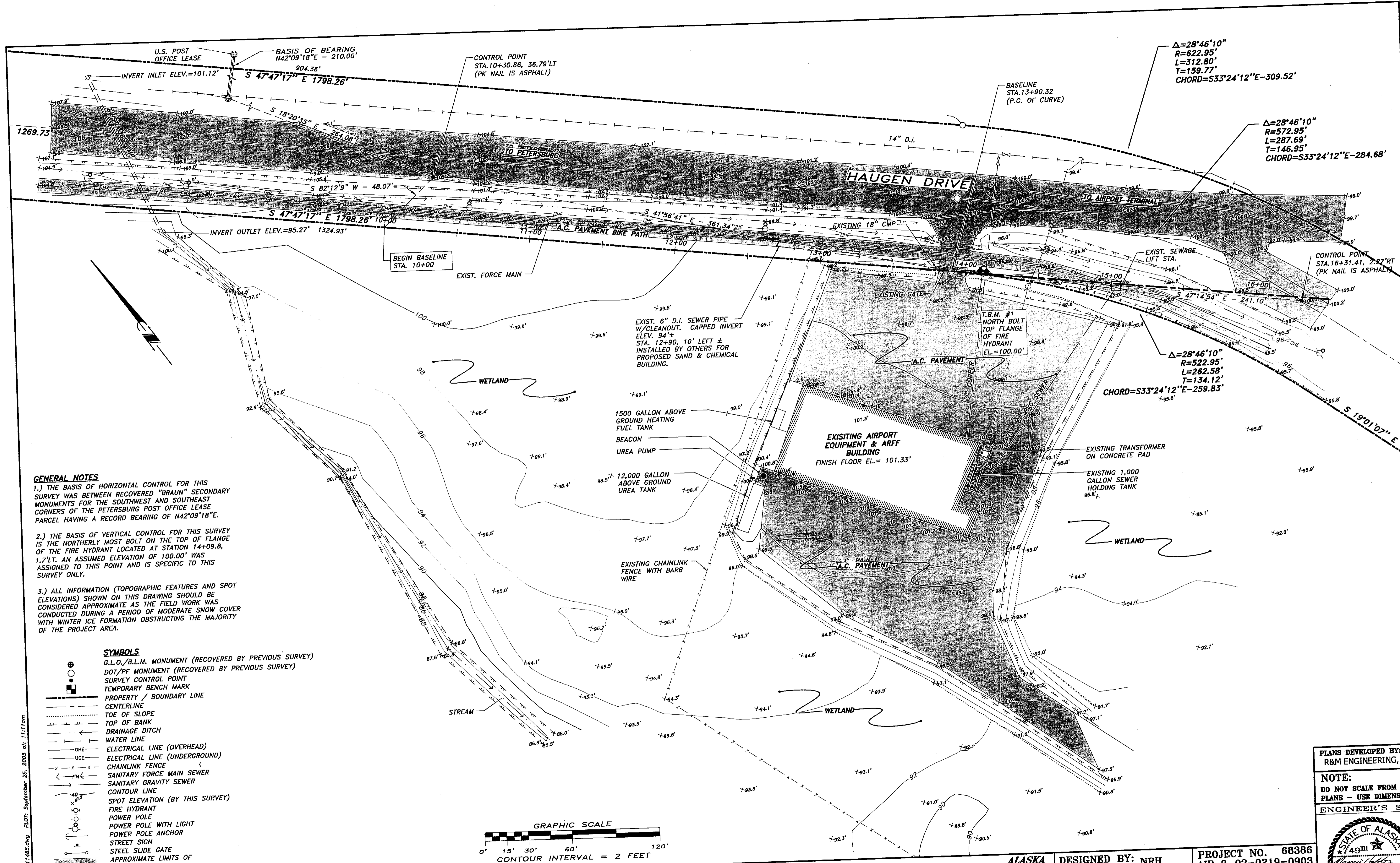


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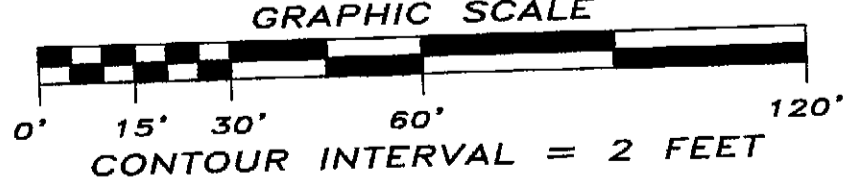
GENERAL NOTES

1.) THE BASIS OF HORIZONTAL CONTROL FOR THIS SURVEY WAS BETWEEN RECOVERED "BRAUN" SECONDARY MONUMENTS FOR THE SOUTHWEST AND SOUTHEAST CORNERS OF THE PETERSBURG POST OFFICE LEASE PARCEL HAVING A RECORD BEARING OF N42°09'18"E.

2.) THE BASIS OF VERTICAL CONTROL FOR THIS SURVEY IS THE NORTHERLY MOST BOLT ON THE TOP OF FLANGE OF THE FIRE HYDRANT LOCATED AT STATION 14+09.8, 1.7' LT. AN ASSUMED ELEVATION OF 100.00' WAS ASSIGNED TO THIS POINT AND IS SPECIFIC TO THIS SURVEY ONLY.

3.) ALL INFORMATION (TOPOGRAPHIC FEATURES AND SPOT ELEVATIONS) SHOWN ON THIS DRAWING SHOULD BE CONSIDERED APPROXIMATE AS THE FIELD WORK WAS CONDUCTED DURING A PERIOD OF MODERATE SNOW COVER WITH WINTER ICE FORMATION OBSTRUCTING THE MAJORITY OF THE PROJECT AREA.

- SYMBOLS**
- G.L.O./B.L.M. MONUMENT (RECOVERED BY PREVIOUS SURVEY)
 - DOT/PF MONUMENT (RECOVERED BY PREVIOUS SURVEY)
 - SURVEY CONTROL POINT
 - TEMPORARY BENCH MARK
 - PROPERTY / BOUNDARY LINE
 - CENTERLINE
 - TOE OF SLOPE
 - TOP OF BANK
 - DRAINAGE DITCH
 - WATER LINE
 - OHE ELECTRICAL LINE (OVERHEAD)
 - UGE ELECTRICAL LINE (UNDERGROUND)
 - CHAINLINK FENCE
 - SANITARY FORCE MAIN SEWER
 - SANITARY GRAVITY SEWER
 - CONTOUR LINE
 - SPOT ELEVATION (BY THIS SURVEY)
 - FIRE HYDRANT
 - POWER POLE
 - POWER POLE WITH LIGHT
 - POWER POLE ANCHOR
 - STREET SIGN
 - STEEL SLIDE GATE
 - APPROXIMATE LIMITS OF ASPHALT PAVEMENT



RECORD OF REVISIONS	
PATH: I:\2001PROJ\011465_6_3\	011465.DWG
BY:	DESCRIPTION OF CHANGE:
DATE:	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

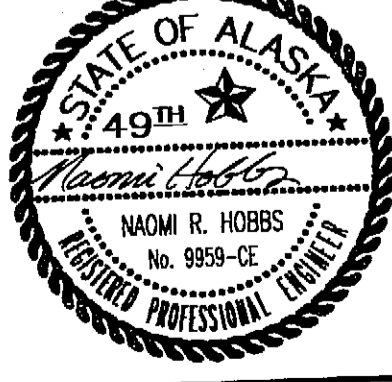
PETERSBURG
ALASKA
AIRPORT SAND AND CHEMICAL
STORAGE BUILDING
EXISTING SITE CONDITIONS

DESIGNED BY: NRH	PROJECT NO. 68386 AIP 3-02-0219-0903
DRAWN BY: NRH/DHH	DATE: OCTOBER 3, 2003
CHECKED BY: MCS	SHEET C1 OF 34

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL



I:\2001PROJ\011465_6_3\CIVIL\011465.dwg PLOT: September 25, 2003 at: 11:11am

BUILDING LAYOUT SUMMARY			
POINT	STATION	OFFSET RIGHT	REMARKS
(A)	11+89.3	58.7'	BLDG. COR.
(B)	12+94.6	85.1'	BLDG. COR.
(C)	11+74.2	119.3'	BLDG. COR.
(D)	12+79.4	145.7'	BLDG. COR.

SEE STRUCTURAL FOR FOUNDATION DETAILS/DIMENSIONS

NOTES:
 1) ELEVATIONS SHOWN ARE FOR WORK UP THROUGH TOP OF BASE COURSE GRADING D-1.

B.C. = BEGIN CURVE
 E.C. = END CURVE
 A.P. = ANGLE POINT
 P.O.C. = POINT ON CURVE
 M.T.E. = MATCH TO EXISTING
 T.S. = TOP OF SIDEWALK
 T.B. = TOP OF BASE
 BLDG. COR. = BUILDING CORNER
 (OUTSIDE EDGE OF FOUNDATION WALL)

2) DAYLIGHT ROOF DRAINS AND FOUNDATION DRAINS ON SOUTH SIDE OF THE BUILDING TO TOE OF BANK.

3) SLOPE ROOF DRAINS AND FOUNDATION DRAINS TO DRAIN, MINIMUM 1% SLOPE.

FINISH GRADE SUMMARY TABLE

POINT	STATION	OFFSET RIGHT	ELEVATION	REMARKS
(1)	11+83.0	2.5'	100.8'	T.B.
(2)	11+81.0	4.1'	100.8'	T.B.
(3)	12+45.5	3.9'	100.0'	T.B.
(4)	13+07.9	5.2'	M.T.E.	T.B.
(5)	11+60.9	83.6'	100.7'	T.B.
(6)	11+39.5	169.2'	100.4'	T.B.
(7)	11+41.0	171.6'	100.4'	T.B.
(8)	12+13.0	189.6'	100.0'	T.B.
(9)	12+85.1	207.6'	M.T.E.	T.B.
(10)	14+53.0	148.9'	M.T.E.	T.B.
(11)	15+21.6	308.2'	M.T.E.	T.B.

AL 2001PROJ\011465_6\CIVIL\011465.dwg PLOT: September 25, 2003 at: 12:39pm

RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION OF CHANGE

STATE OF ALASKA
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PETERSBURG

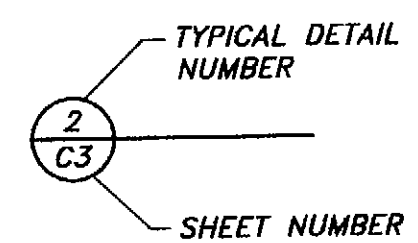
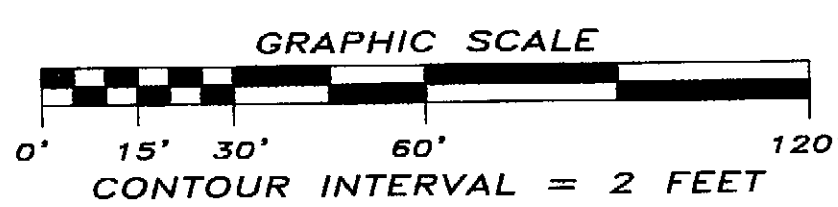
ALASKA
 AIRPORT SAND AND CHEMICAL
 STORAGE BUILDING
 SITE PLAN

ALASKA

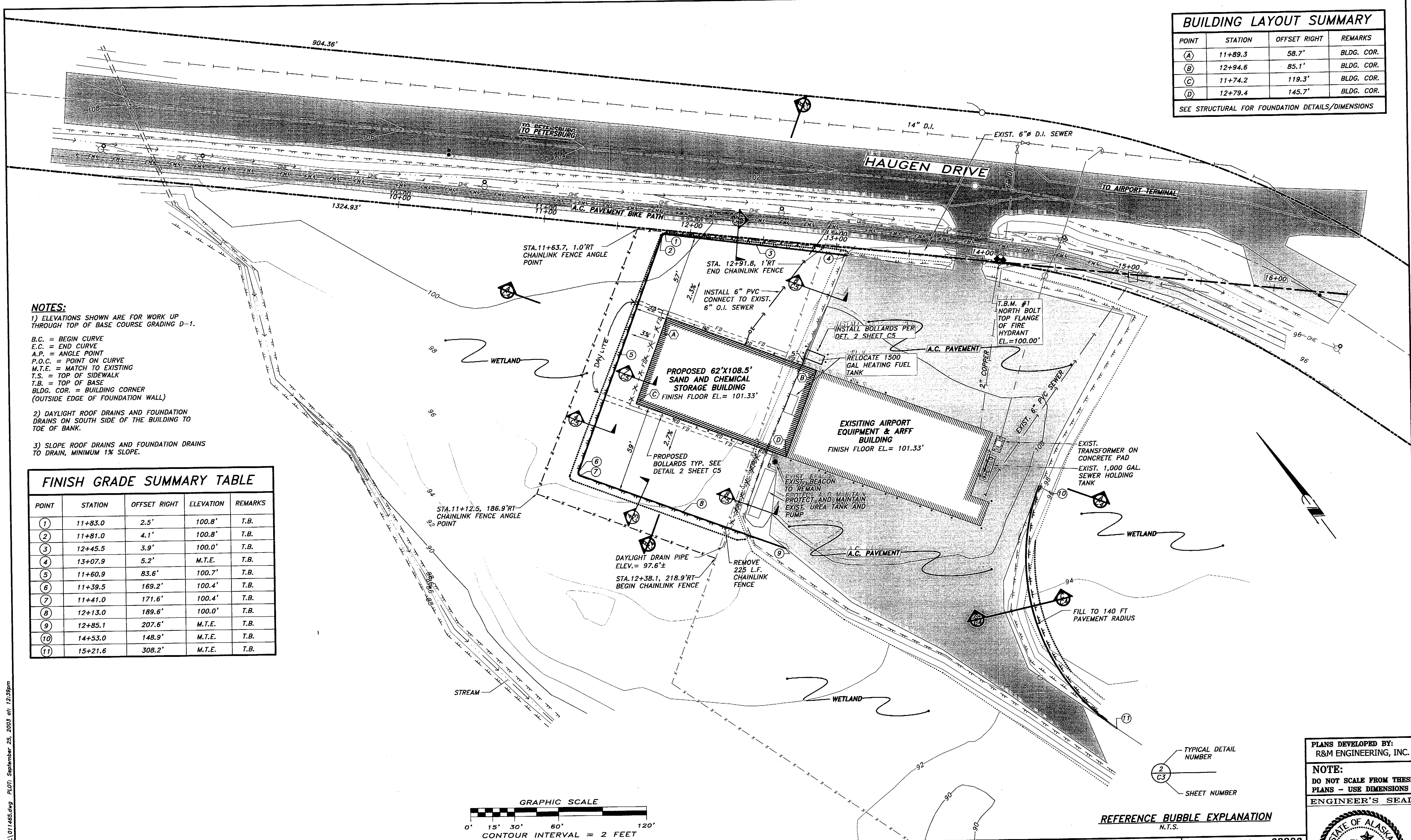
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DRAWN BY: NRH/DHH	DATE: OCTOBER 3, 2003
CHECKED BY: MCS	SHEET C2 OF 34

PLANS DEVELOPED BY:
 R&M ENGINEERING, INC.

NOTE:
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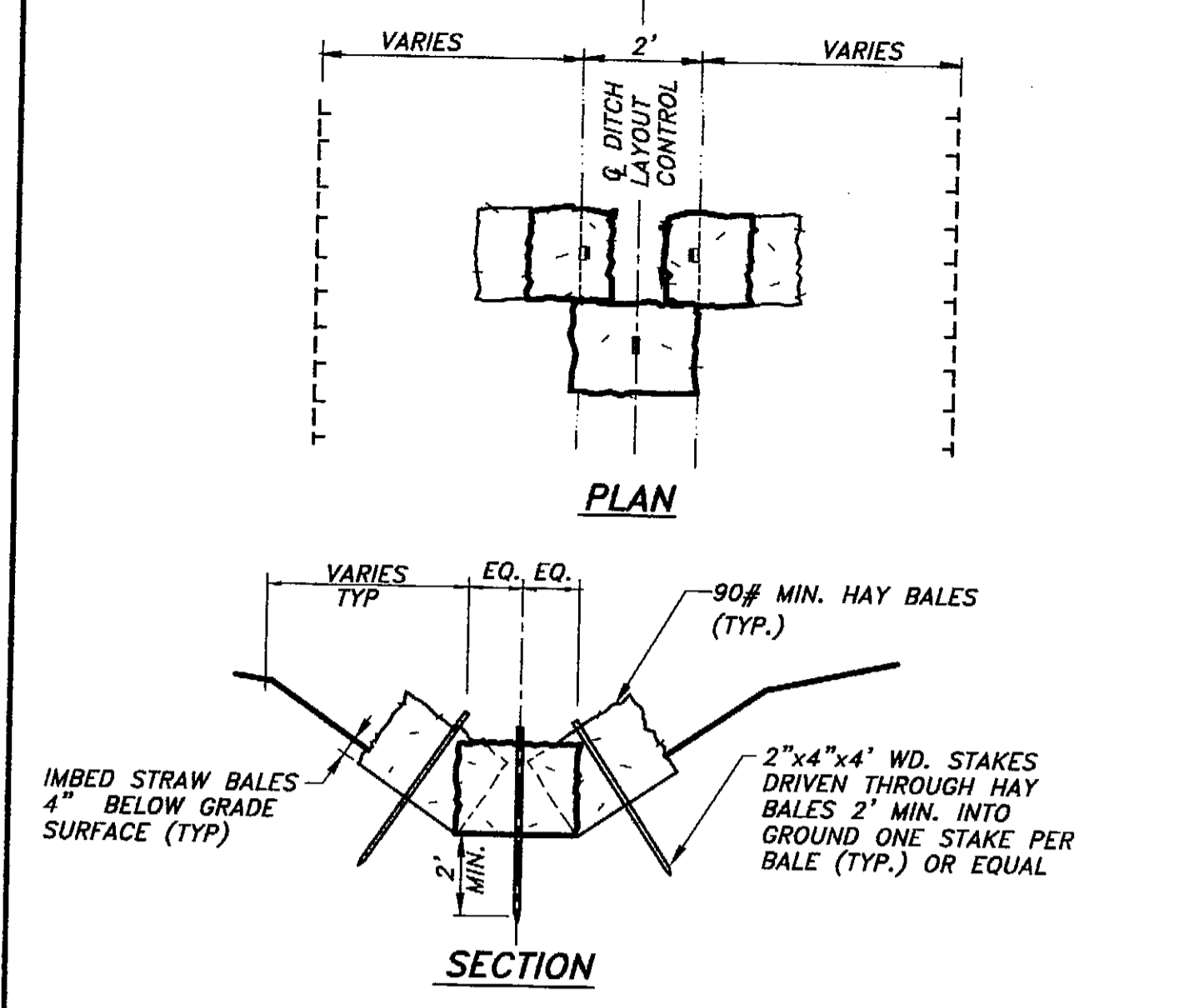
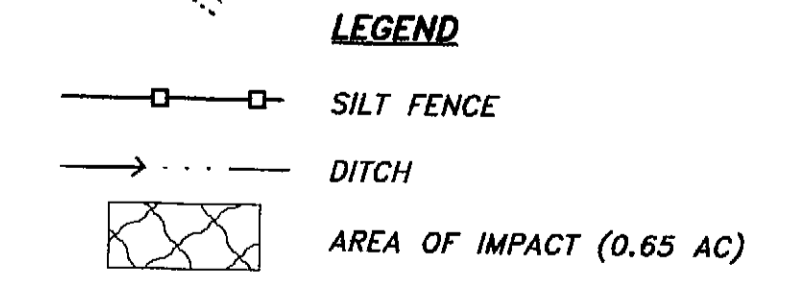
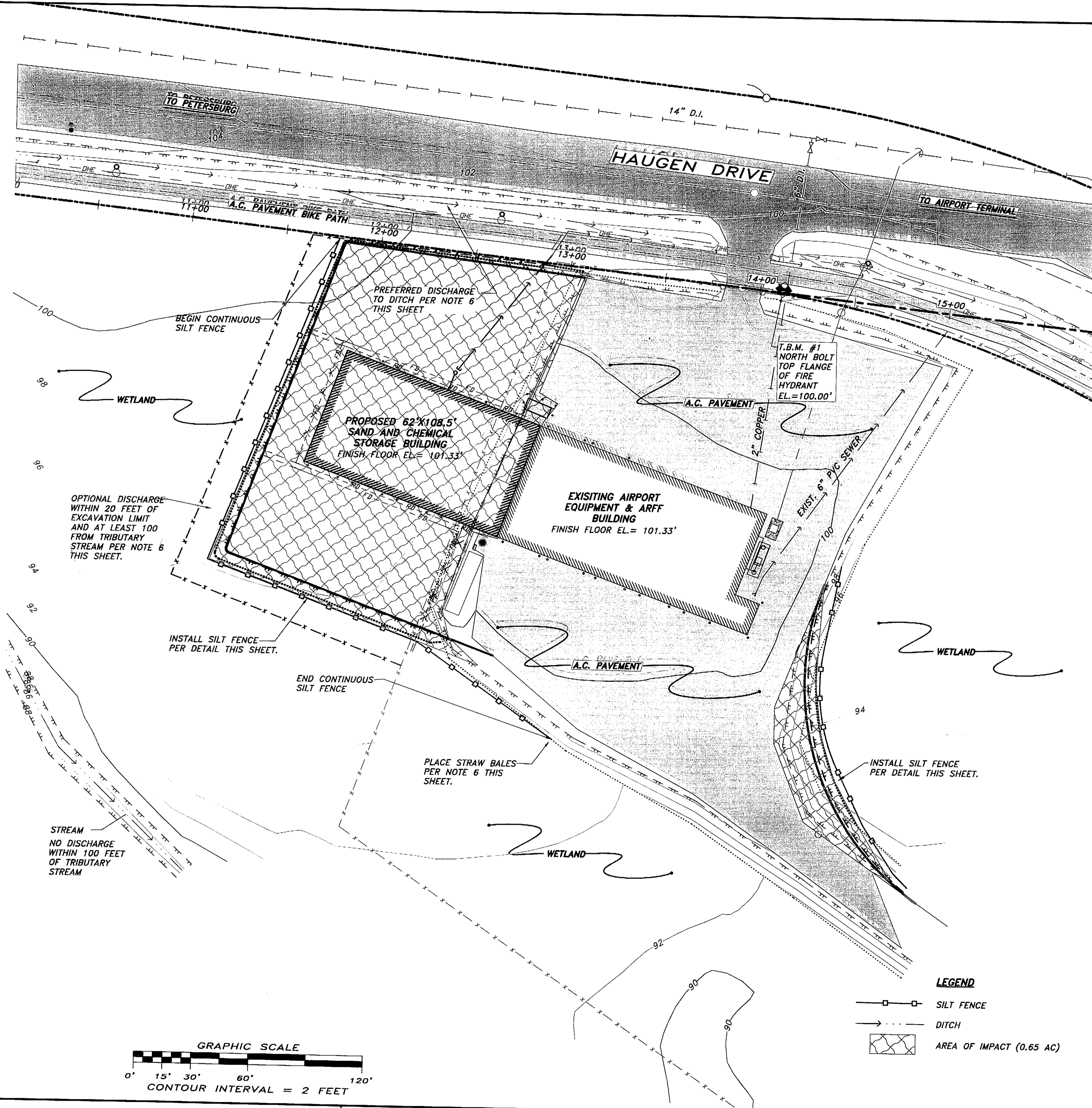


REFERENCE BUBBLE EXPLANATION
 N.T.S.



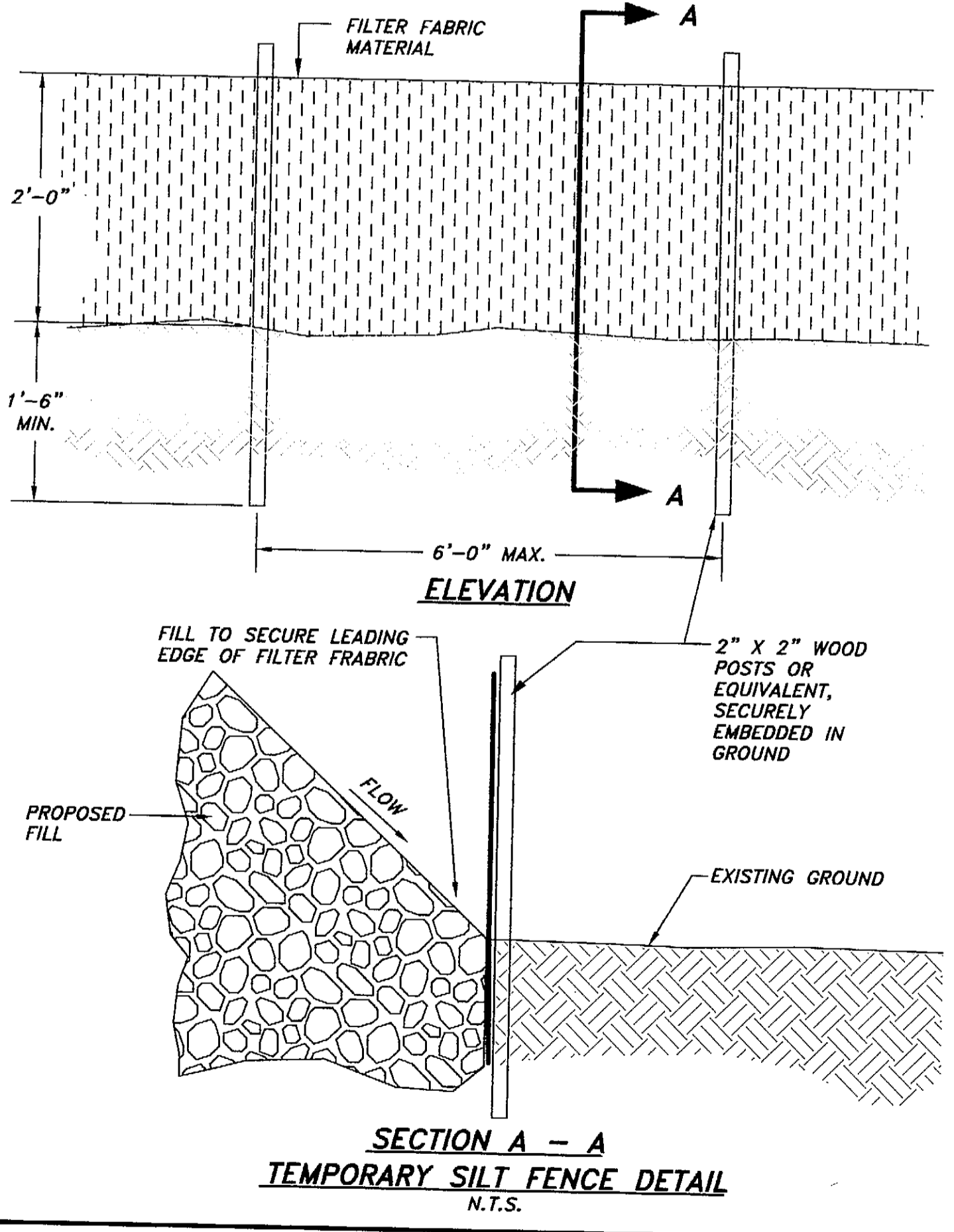
NOTES:

1. THE CONTRACTOR IS REQUIRED TO PRESENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FIVE DAYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE. THE CONTRACTOR'S SWPPP SHALL INCLUDE, AT THE MINIMUM, HIS PROPOSED LOCATIONS FOR TEMPORARY CHECK DAMS, SILT FENCE, AND ANY OTHER BEST MANAGEMENT PRACTICES THAT ARE APPROPRIATE. A MANUAL ENTITLED "ALASKA STORM WATER POLLUTION PREVENTION PLAN GUIDE" AND DATED OCTOBER 2001 IS AVAILABLE FROM PUBLICATIONS CLERK, ROOM 115, STATEWIDE DESIGN AND ENGINEERING SERVICES, 407&P 3132 CHANNEL DRIVE, JUNEAU, AK 99801 (PHONE: 907-485-2985) FOR A COST OF \$10 OR IT IS AVAILABLE ON THE INTERNET AT www.dot.state.ak.us/stwddes/dcs/pubs.html
2. THIS PROJECT IS LOCATED NEAR THE PETERSBURG AIRPORT IN A MILD MARITIME CLIMATOLOGICAL AREA. AVERAGE SUMMER TEMPERATURE RANGES FROM 40-56 DEGREES WITH AN EXTREME HIGH BEING 83 DEGREES. AVERAGE WINTER TEMPERATURES RANGE FROM 25 TO 50 DEGREES WITH AN EXTREME LOW BEING -15 DEGREES. AVERAGE RAINFALL IS 110 INCHES. AVERAGE SNOWFALL IS 65 INCHES.
3. THE TOTAL AREA OF LAND TO BE DISTURBED IS ESTIMATED AT 0.65 ACRES.
4. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSPECTED AT LEAST ONCE A WEEK OR WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER AND MAINTAINED UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
5. MAINTENANCE OF EROSION AND SEDIMENT CONTROL DEVICES SHALL INCLUDE CLEANING OF COLLECTED SEDIMENT OR REPLACEMENT TO MAINTAIN EFFECTIVENESS. ACCUMULATION OF SEDIMENT SHALL NOT EXCEED 9 INCHES.
6. IF DEWATERING OF THE EXCAVATION IS NECESSARY, THE DISCHARGE SHALL BE DIRECTED TO ONE OF THE THREE PLACES. FIRST, THE PREFERRED LOCATION IS ON THE EXISTING BUILDING PAD ON THE HAUGEN DRIVE SIDE, WHERE THE WATER WILL FLOW OVER THE SHOT ROCK SLOPE AND BE TREATED BY THE SHOT ROCK. THE SECOND LOCATION IS ON THE OPPOSITE SIDE OF THE PAD, AGAIN, CLOSE TO THE SLOPE. IN THIS CASE SILT FENCE MUST FIRST BE INSTALLED AT THE TOE OF THE SLOPE FOR A DISTANCE OF 50 TO 70 FEET, WITH STRAW BALES AT THE END OF THE FENCE TO PREVENT THE WATER FROM FLOWING INTO THE MUSKEG. THE THIRD OPTION IS TO TREAT THE WATER IN "SILT SACKS" OR SIMILAR TECHNOLOGY, AND THEN RELEASE THE WATER TO THE WETLAND WITH A PRESCRIBED AREA THAT IS AT LEAST 20 FEET FROM THE PROJECT FOOTPRINT AND AT LEAST 100 FEET FROM THE NEARBY TRIBUTARY STREAM. THE DISCHARGE SHALL NOT CAUSE THERMAL OR PHYSICAL EROSION OR CAUSE DESTRUCTION OF VEGETATION.
7. IF DEWATERING OF THE EXCAVATION IS NECESSARY, THE TOTAL QUANTITY OF WATER SHALL BE RECORDED. THE DISCHARGE SHALL NOT EXCEED 10,000 GALLONS/DAY OR 500,000 GALLONS TOTAL. THE RATE OF PUMPING SHALL NOT EXCEED 75 GALLONS/MINUTE.
8. CONTRACTOR SHALL KEEP CLEAN AND DISPOSE OF ALL EARTHEN MATERIAL TRACKED ONTO EXISTING ASPHALT ACCESS ROAD TO PETERSBURG AIRPORT AND HAUGEN DRIVE. DAILY FLUSHING OF STREETS WITH WATER AND/OR SWEEPING OF THESE STREETS CLEAN OF TRACKED MATERIAL MAY BE REQUIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
9. DUST CAUSED BY EXCAVATION, TRUCK HAULING, AND OTHER ASPECTS OF THE OPERATION SHALL BE CONTROLLED BY DAMPENING ROAD SURFACES AND OPERATION AREAS AND SHALL TAKE OTHER MEASURES AS NEEDED TO CONTROL DUST IMPACTS OFF-SITE.
10. CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST FOURTEEN (14) CALENDAR DAYS PRIOR TO WORK BEGINNING IN WETLAND AREAS TO ALLOW THE ENGINEER TO SURVEY FOR AND RELOCATE FROGS. IF THE CONTRACTOR DOES NOT BEGIN WORK WITHIN THE 14 DAYS, ANOTHER 14 DAY NOTICE WILL BE GIVEN TO THE ENGINEER SO THAT THE FROG RELOCATION EFFORT CAN BE MADE.
11. PROJECT LIMITS OF AUTHORIZED FILL IN WETLANDS SHALL BE CLEARLY IDENTIFIED (STAKED AND FLAGGED) PRIOR TO CLEARING AND CONSTRUCTION TO ENSURE THAT IMPACTS BEYOND PROJECT FOOTPRINTS ARE AVOIDED.
12. NO VEHICLES OR EQUIPMENT SHALL BE FUELED OR SERVICED IN WETLANDS WITHIN OR ADJACENT TO THE PROJECT FOOTPRINT.
13. IF SOIL IS DISTURBED OUTSIDE OF THE FILL FOOTPRINT AND RUTS EXCEED SIX INCHES IN DEPTH, THE DISTURBED AREA(S) SHALL BE BLENDED TO MATCH ADJACENT CONTOURS, WITH THE ADDITION OF EXCAVATED PEAT, IF NECESSARY, AND RE-VEGETATED. IF VEGETATION IS DISTURBED OUTSIDE OF THE FILL FOOTPRINT, THE DISTURBED AREA SHALL BE RE-VEGETATED BY PLACEMENT OF THE VEGETATED MAT SALVAGED FROM THE EXCAVATED WETLAND.



NOTE:
TEMPORARY EROSION & SEDIMENTATION CONTROL BARRIER CONSISTING OF HAY BALES AND 2" x 4" x 4" WD. STAKES SHALL BE CONSTRUCTED AS SHOWN IN THIS DETAIL AND/OR AS DIRECTED BY THE ENGINEER. ACTUAL LOCATIONS MAY VARY AND MAY BE RELOCATED AS DIRECTED BY THE ENGINEER.

TEMPORARY EROSION CONTROL BARRIER
N.T.S.



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RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PETERSBURG
ALASKA

AIRPORT SAND AND CHEMICAL
STORAGE BUILDING

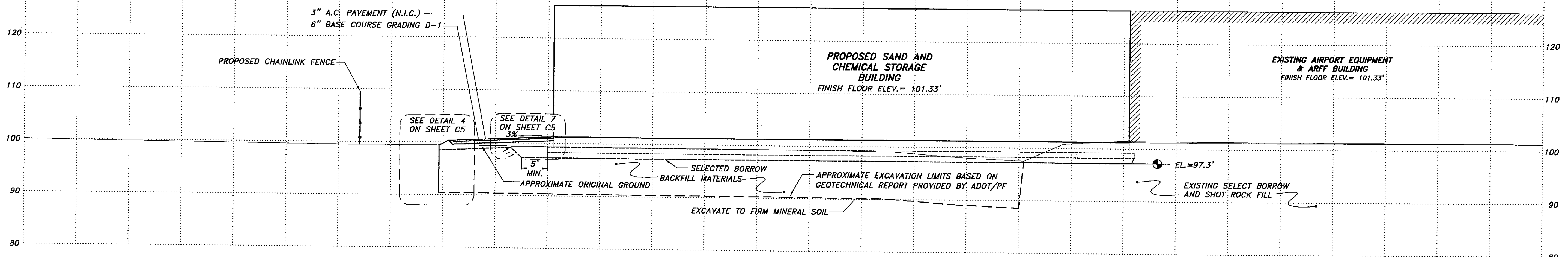
EROSION AND SEDIMENT CONTROL PLAN

DESIGNED BY:	NRH	PROJECT NO. 68386
DRAWN BY:	NRH/DHH	AIP 3-02-0219-0903
CHECKED BY:	MCS	DATE: OCTOBER 3, 2003
		SHEET C3 OF 34

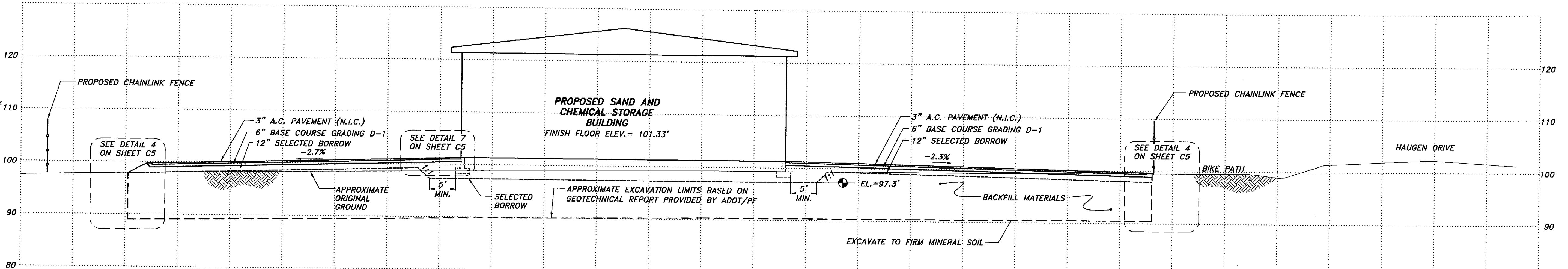
PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
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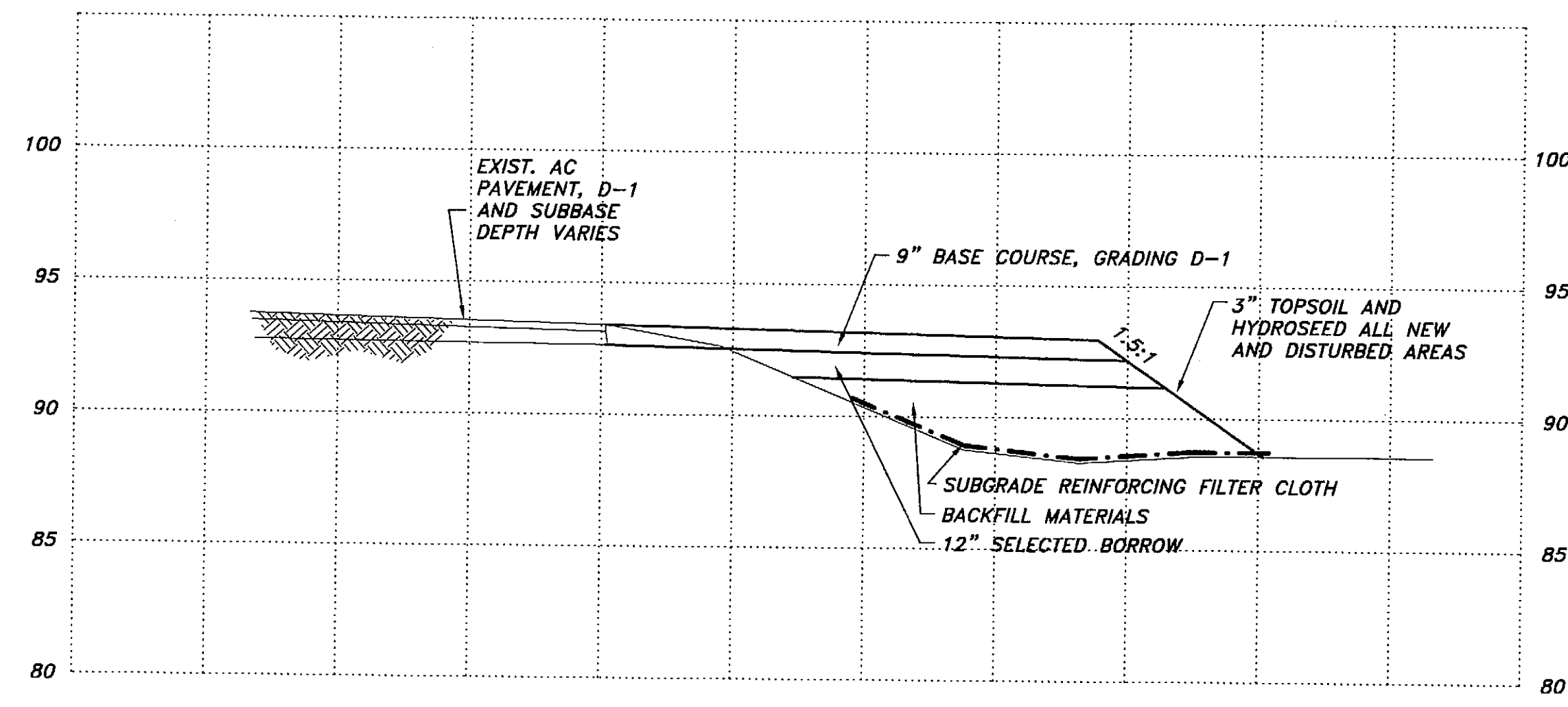
ENGINEER'S SEAL



SECTION 'A-A'
 SCALES: HOR. 1" = 20' (1/2 SIZE)
 VERT. 1" = 20' (1/2 SIZE)



SECTION 'B-B'
 SCALES: HOR. 1" = 20' (1/2 SIZE)
 VERT. 1" = 20' (1/2 SIZE)



SECTION 'C-C'
 SCALES: HOR. 1" = 10' (1/2 SIZE)
 VERT. 1" = 10' (1/2 SIZE)

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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

PETERSBURG

ALASKA
 AIRPORT SAND AND CHEMICAL
 STORAGE BUILDING
 SITE CROSS SECTIONS

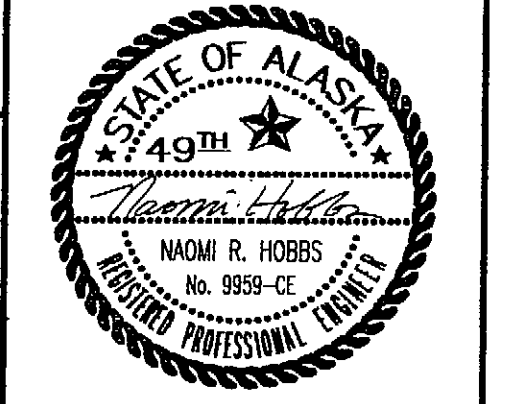
ALASKA

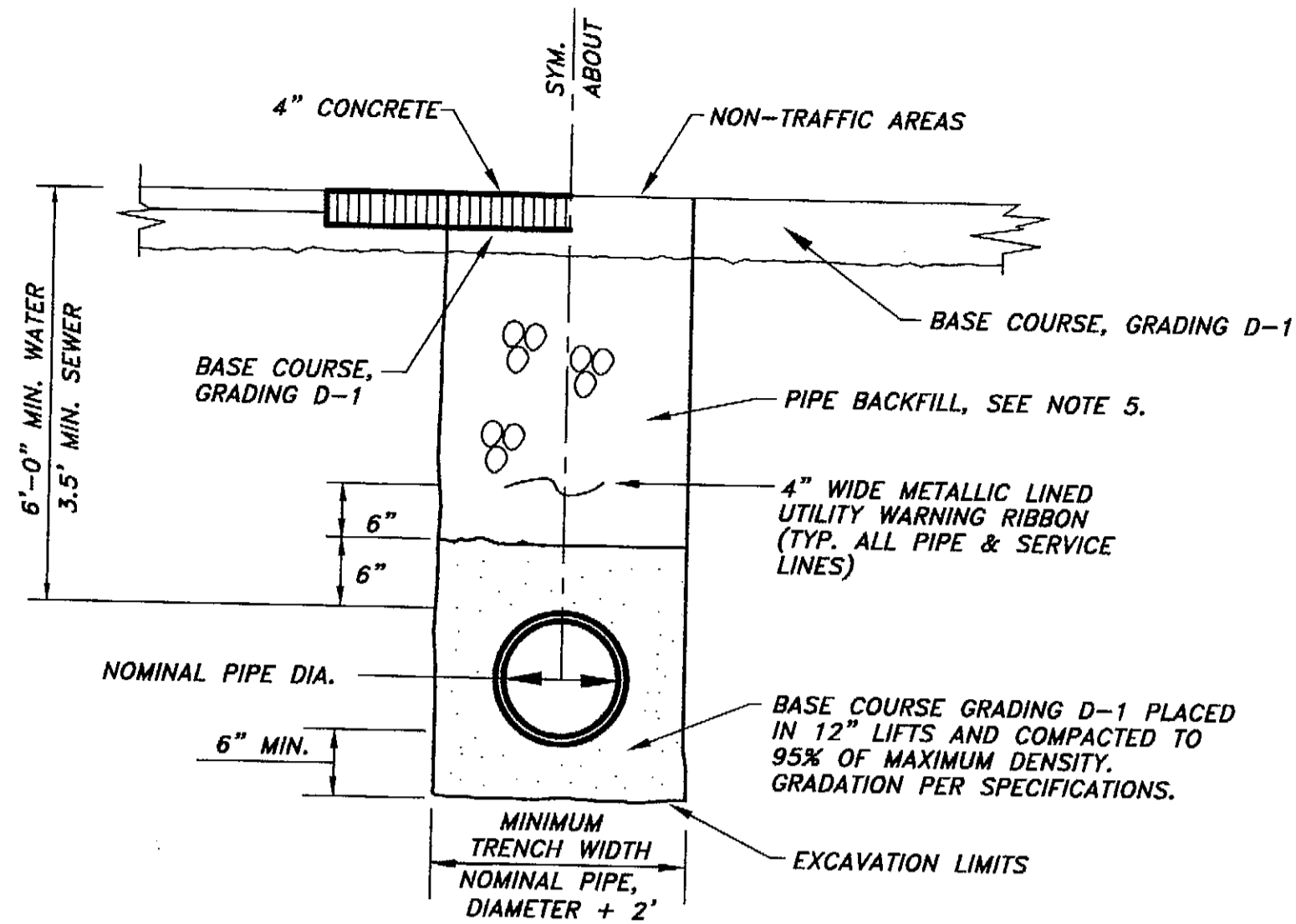
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DRAWN BY: NRH/DHH	AIP 3-02-0219-0903
CHECKED BY: MCS	DATE: OCTOBER 3, 2003
	SHEET C4 OF 34

PLANS DEVELOPED BY:
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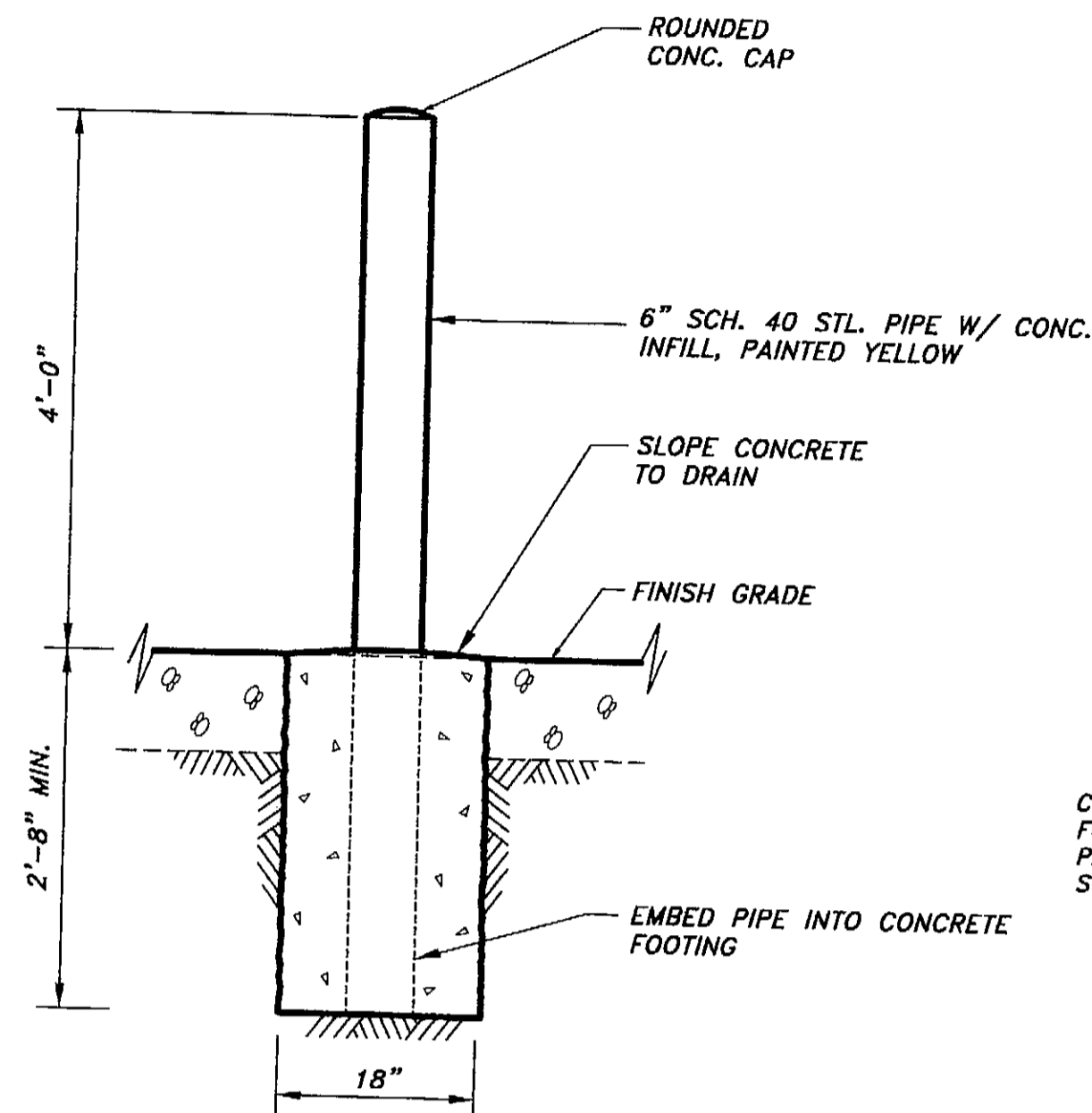
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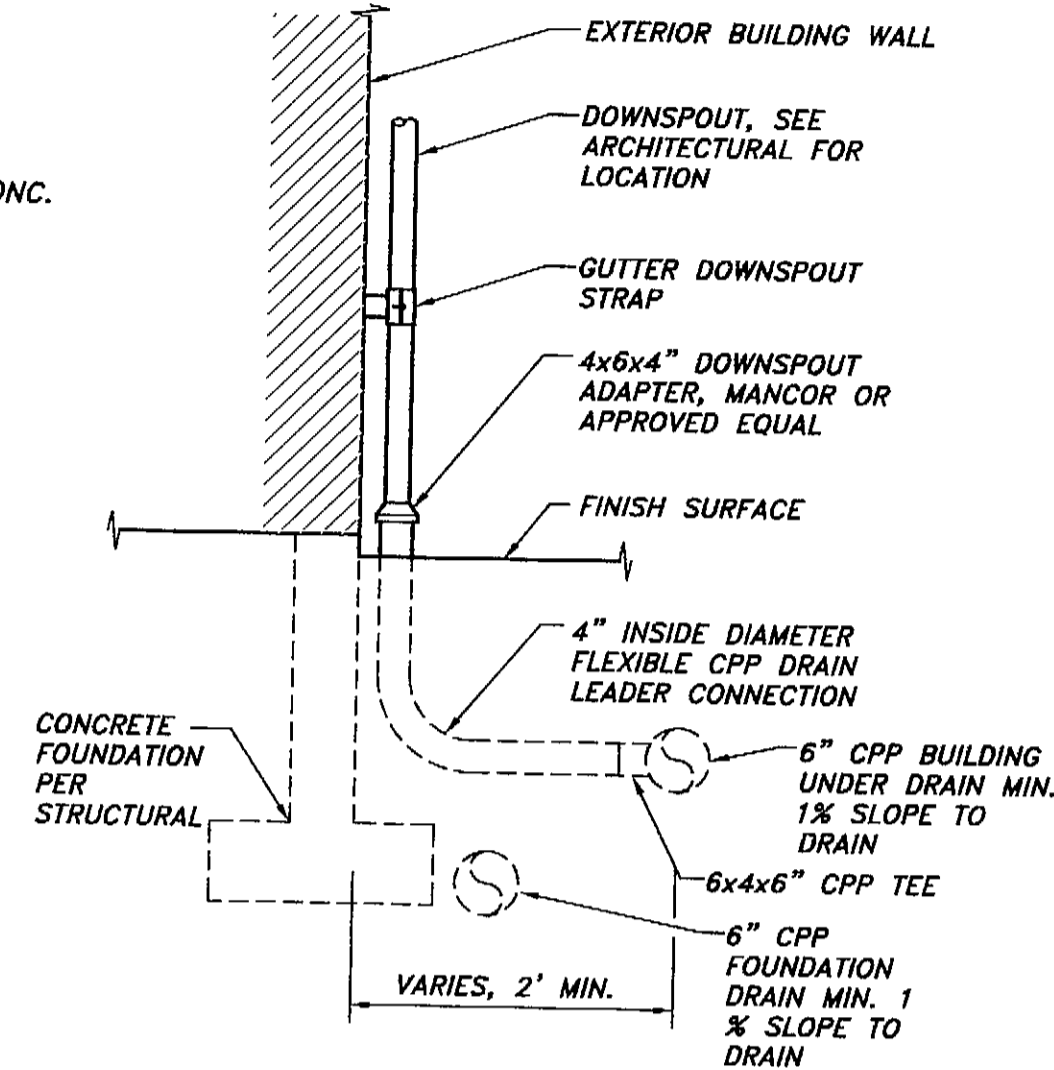


- NOTES:**
- BACKFILL SHALL BE PLACED IN 12" LIFTS AND SHALL BE COMPACTED TO 95% IN ROAD PRISM, OTHER PAVED AREAS AND BENEATH SIDEWALKS; 90% ELSEWHERE.
 - TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED SLOPE IS FOR PAY QUANTITY DETERMINATION ONLY FOR IMPORTED BACKFILL GRAVEL AND RESURFACING REQUIREMENTS.
 - IF UNSUITABLE PIPE FOUNDATION MATERIAL IS ENCOUNTERED DURING EXCAVATION, ENGINEER MAY DIRECT CONTRACTOR TO OVER-EXCAVATE AND BACKFILL WITH SUITABLE MATERIAL.
 - TRENCH SECTION APPLICABLE FOR BOTH SEWER, STORM AND WATER PIPE.
 - PIPE BACKFILL SHALL BE SELECTED BORROW, UNLESS OTHERWISE NOTED.

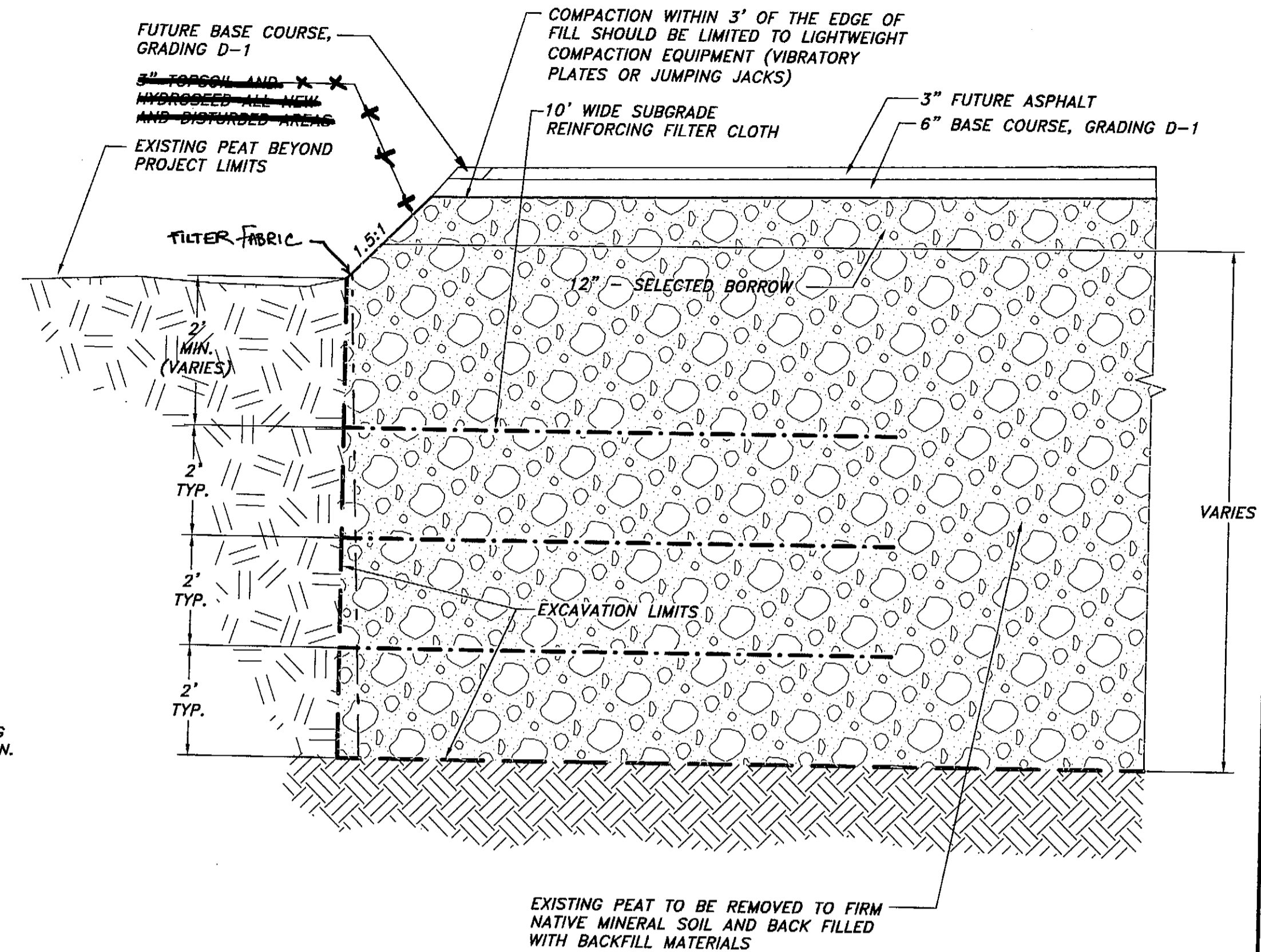
1 **TYPICAL PIPE TRENCH DETAIL**
N.T.S.



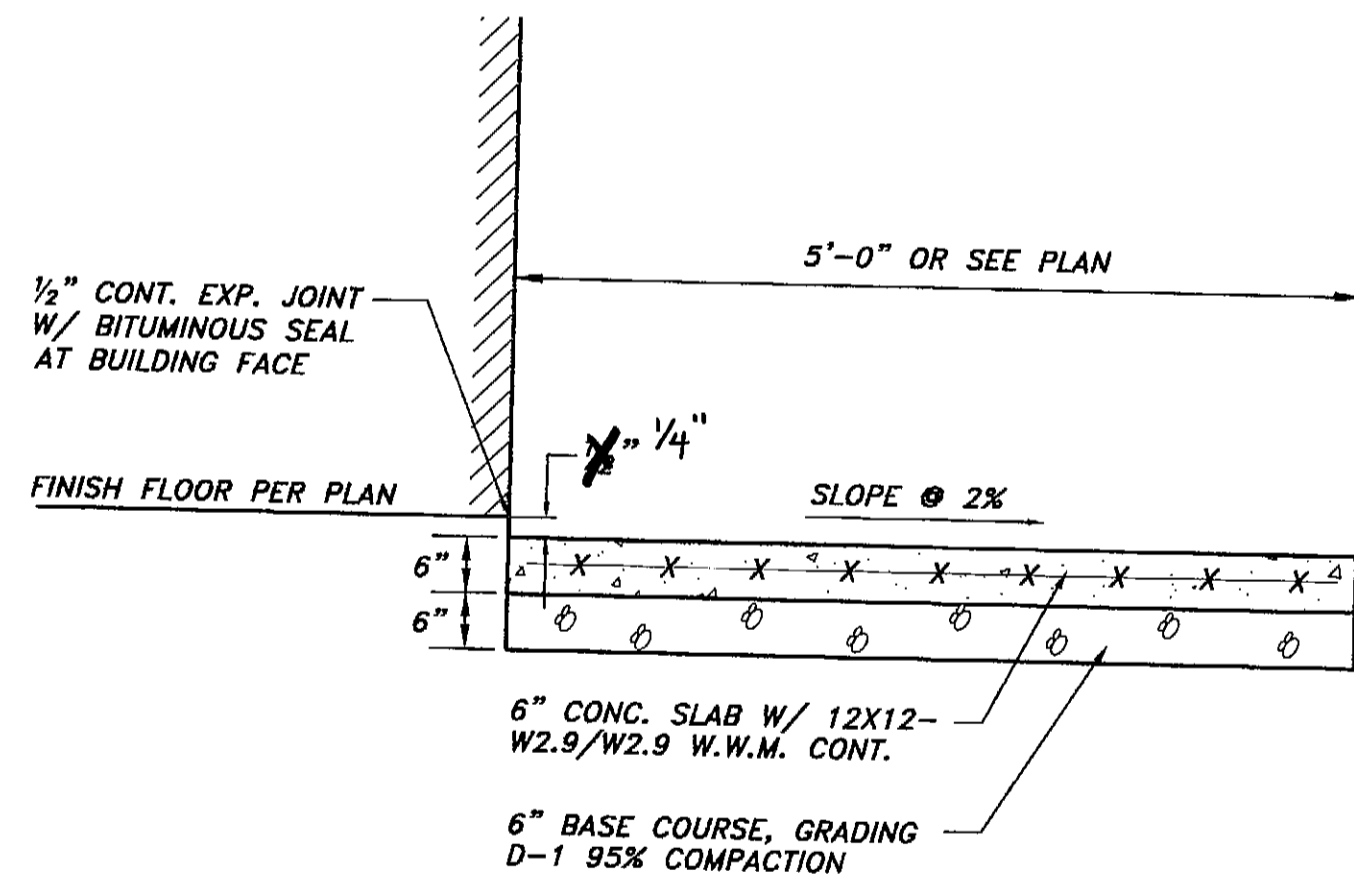
2 **PROTECTION BOLLARD DETAIL**
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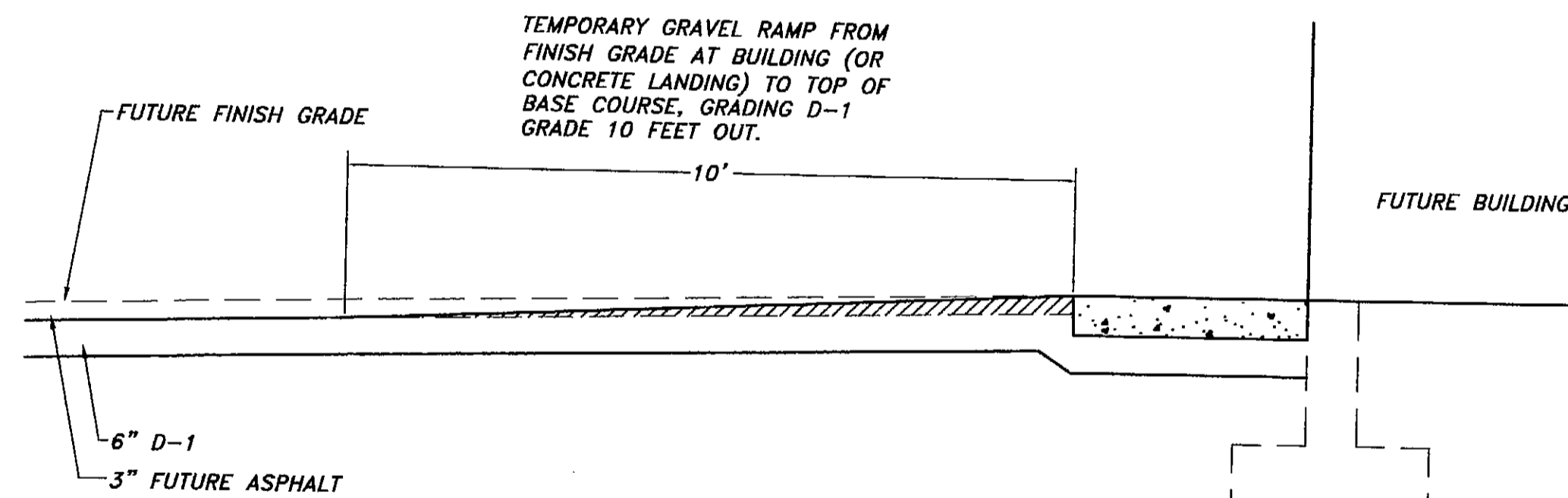
3 **DOWNSPOUT DRAIN DETAIL**
N.T.S.



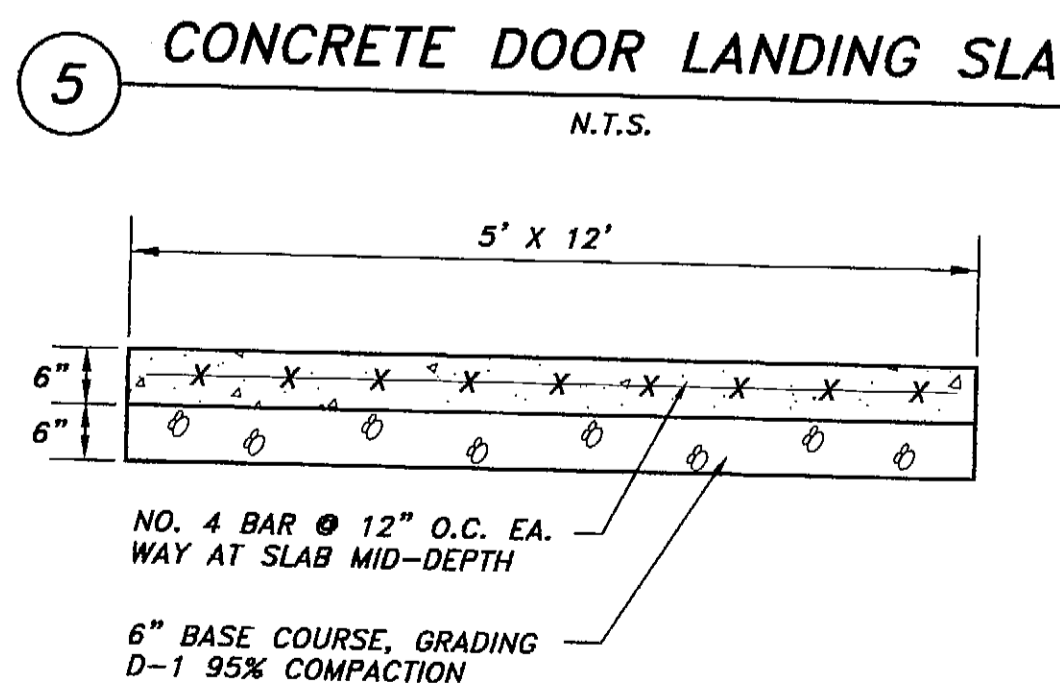
4 **TYPICAL REINFORCED SOIL SLOPE DETAIL**
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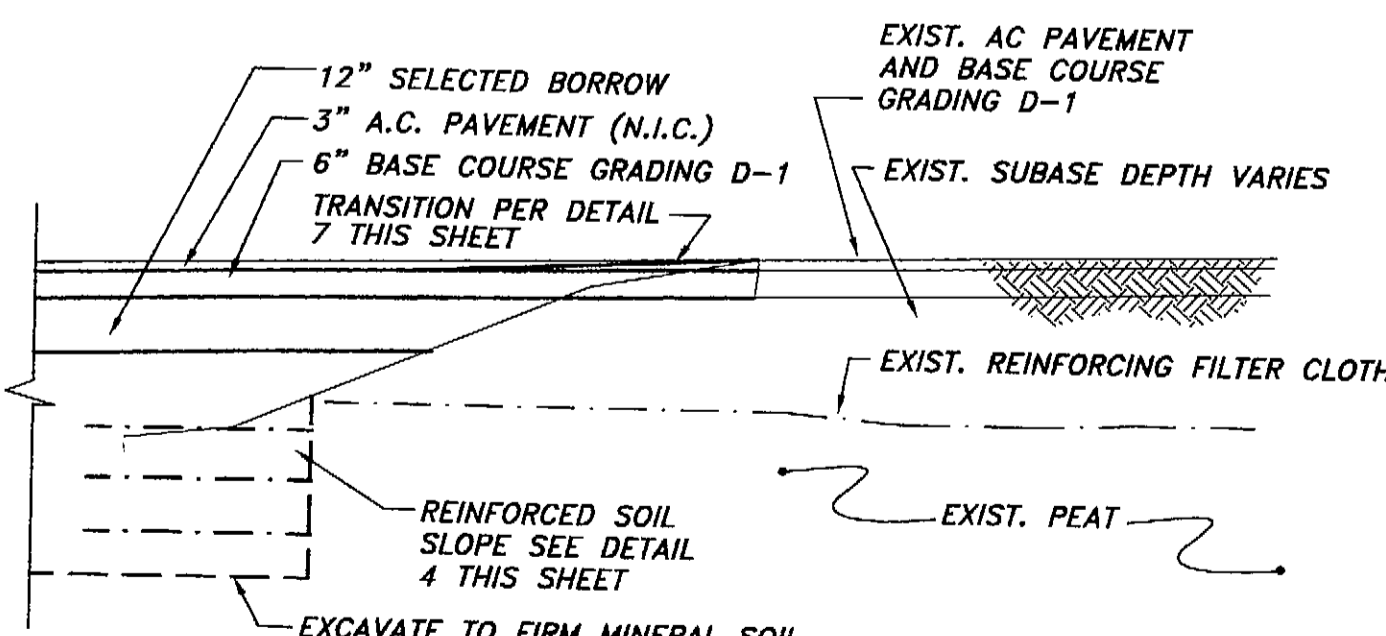
5 **CONCRETE DOOR LANDING SLAB**
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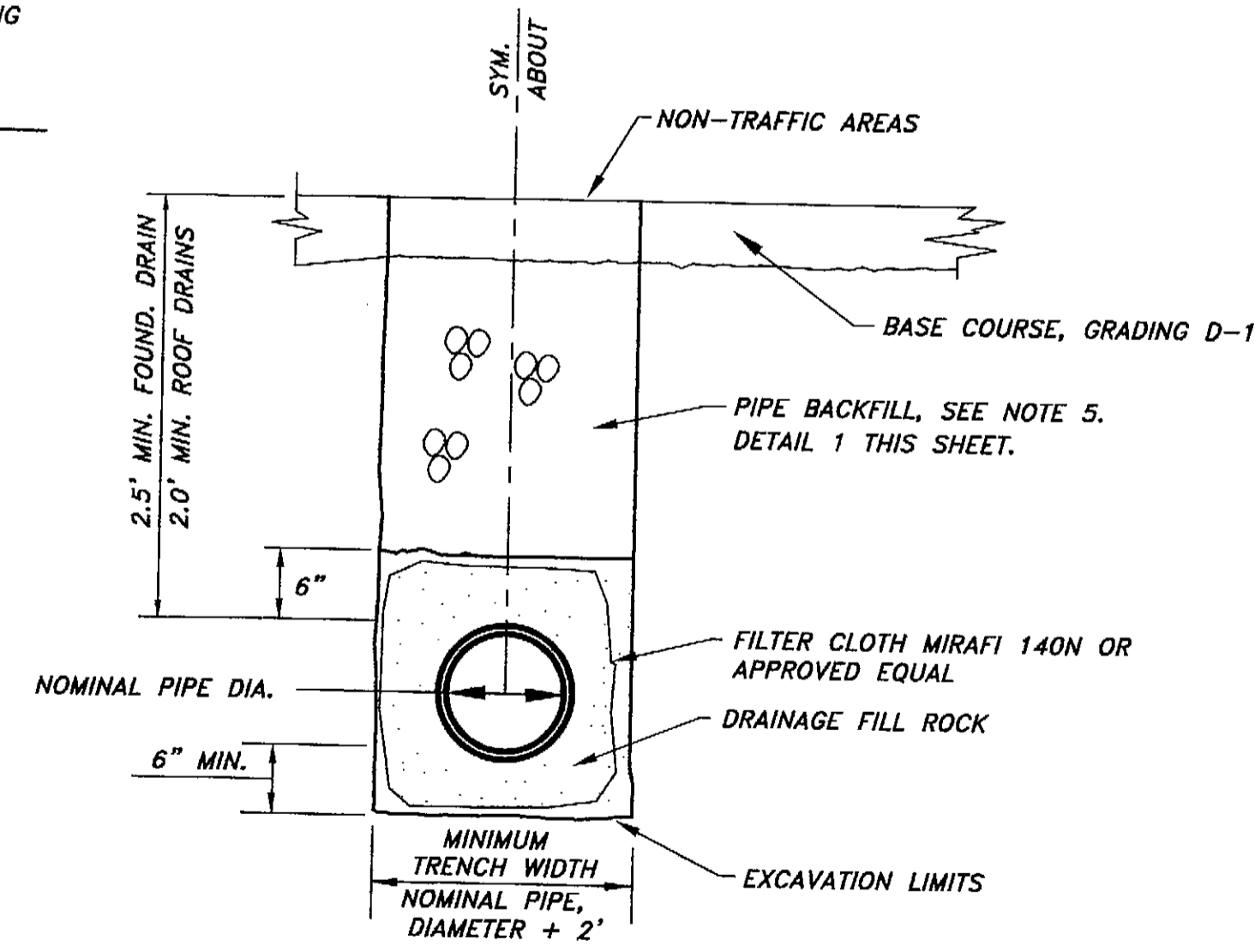
7 **TEMPORARY RAMP DETAIL**
N.T.S.



6 **FUEL TANK SLAB**
N.T.S.



8 **PARKING AREA JOINT DETAIL**
N.T.S.



9 **FOUNDATION & DOWNSPOUT TRENCH DETAIL**
N.T.S.

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NO.	DATE	DESCRIPTION OF CHANGE

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PETERSBURG

AIRPORT SAND AND CHEMICAL
STORAGE BUILDING
CONSTRUCTION DETAILS

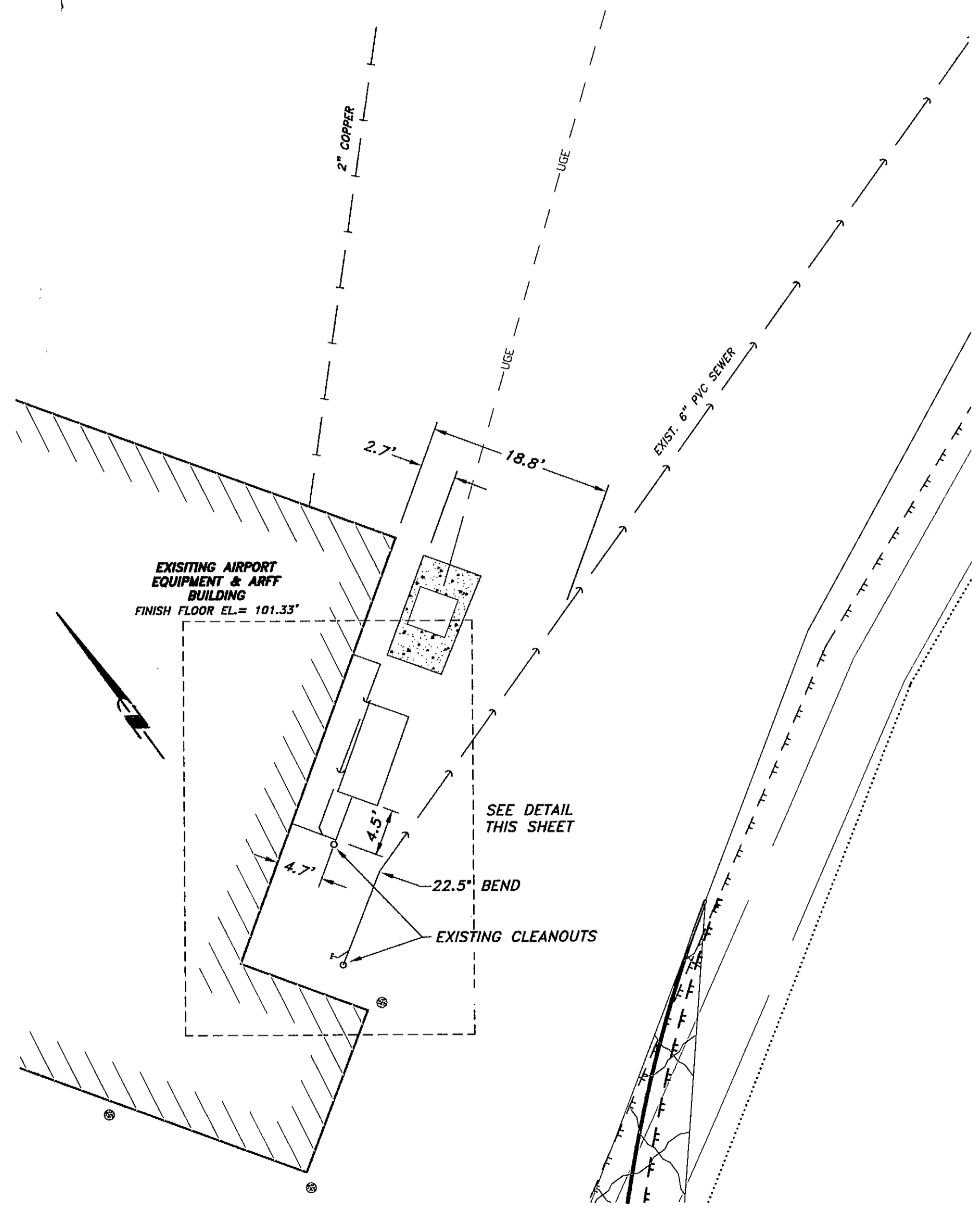
ALASKA

DESIGNED BY: NRH	PROJECT NO. 68386 AIP 3-02-0219-0903
DRAWN BY: NRH/DHH	DATE: OCTOBER 3, 2003
CHECKED BY: MCS	SHEET C5 OF 34

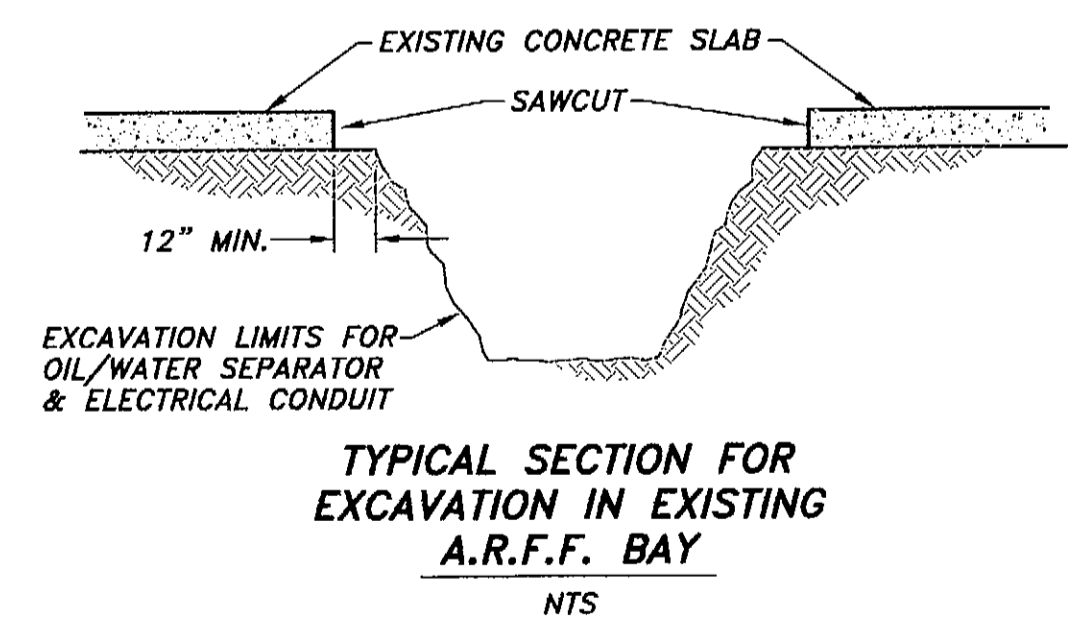
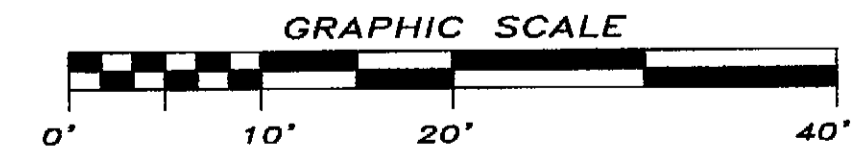
PLANS DEVELOPED BY:
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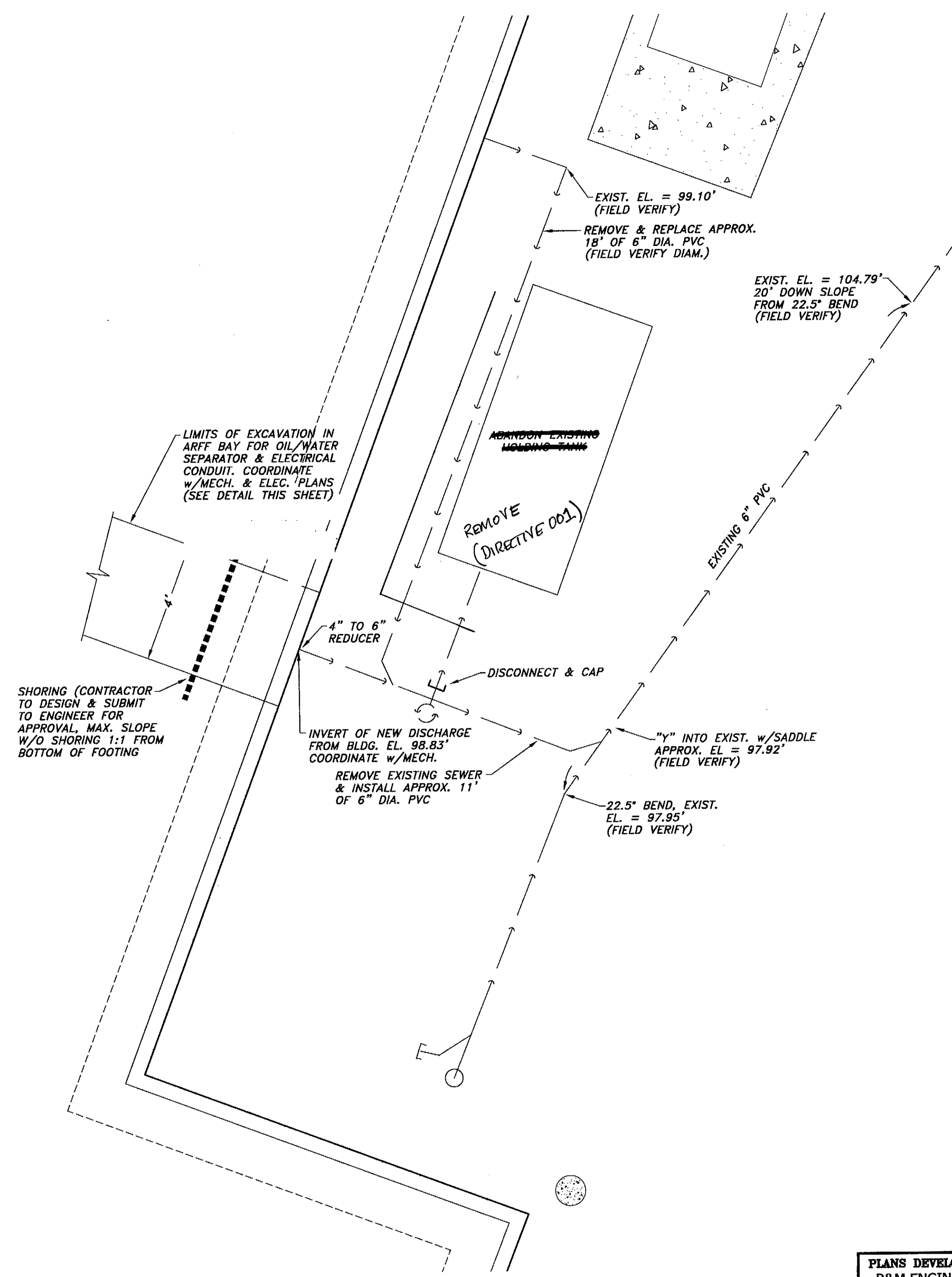




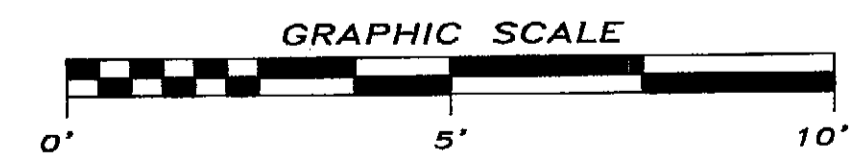
EXISTING PLAN ON EXIST. SEWER & HOLDING TANK



TYPICAL SECTION FOR EXCAVATION IN EXISTING A.R.F.F. BAY
NTS



ENLARGED PLAN OF REVISIONS TO EXISTING SEWER



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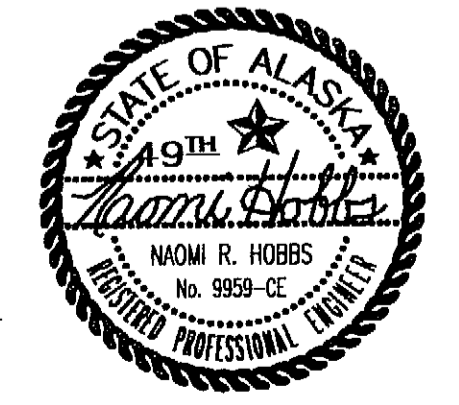
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PETERSBURG

ALASKA
AIRPORT SAND AND CHEMICAL
STORAGE BUILDING
SEWER PLAN AND DETAILS

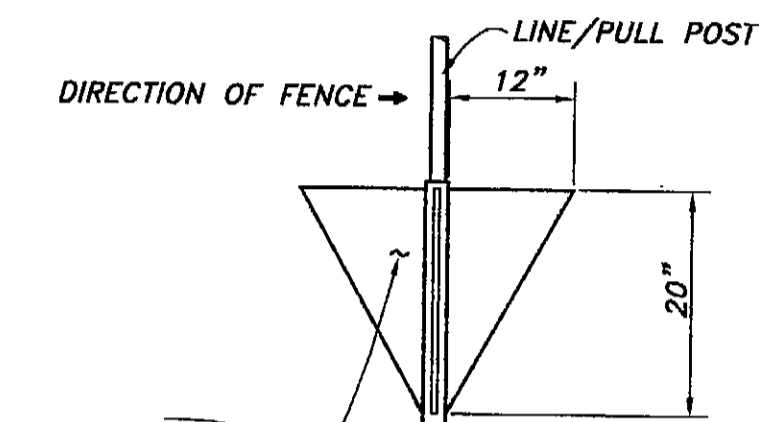
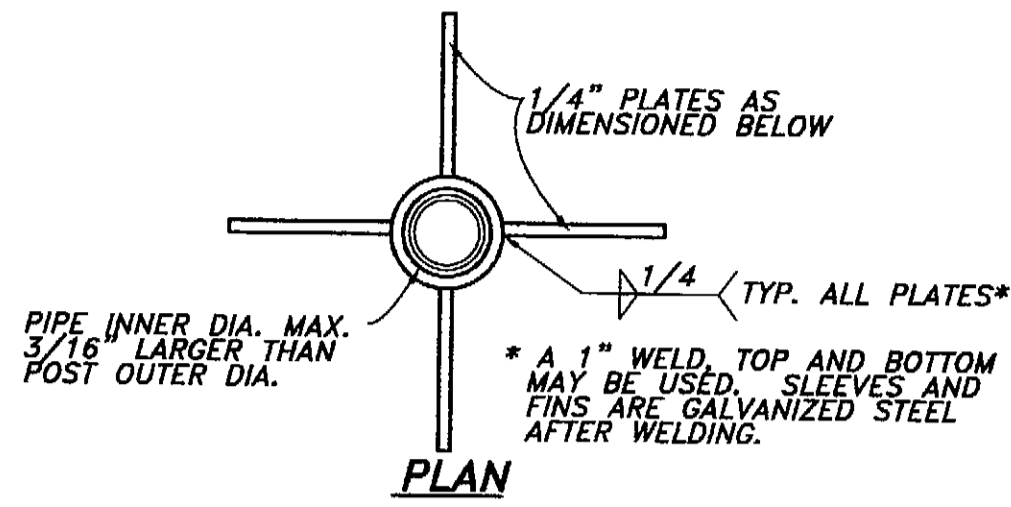
DESIGNED BY: NRH	PROJECT NO. 68386
DRAWN BY: NRH/DHH	AIP 3-02-0219-0903
CHECKED BY: MCS	DATE: OCTOBER 3, 2003
	SHEET C6 OF 34

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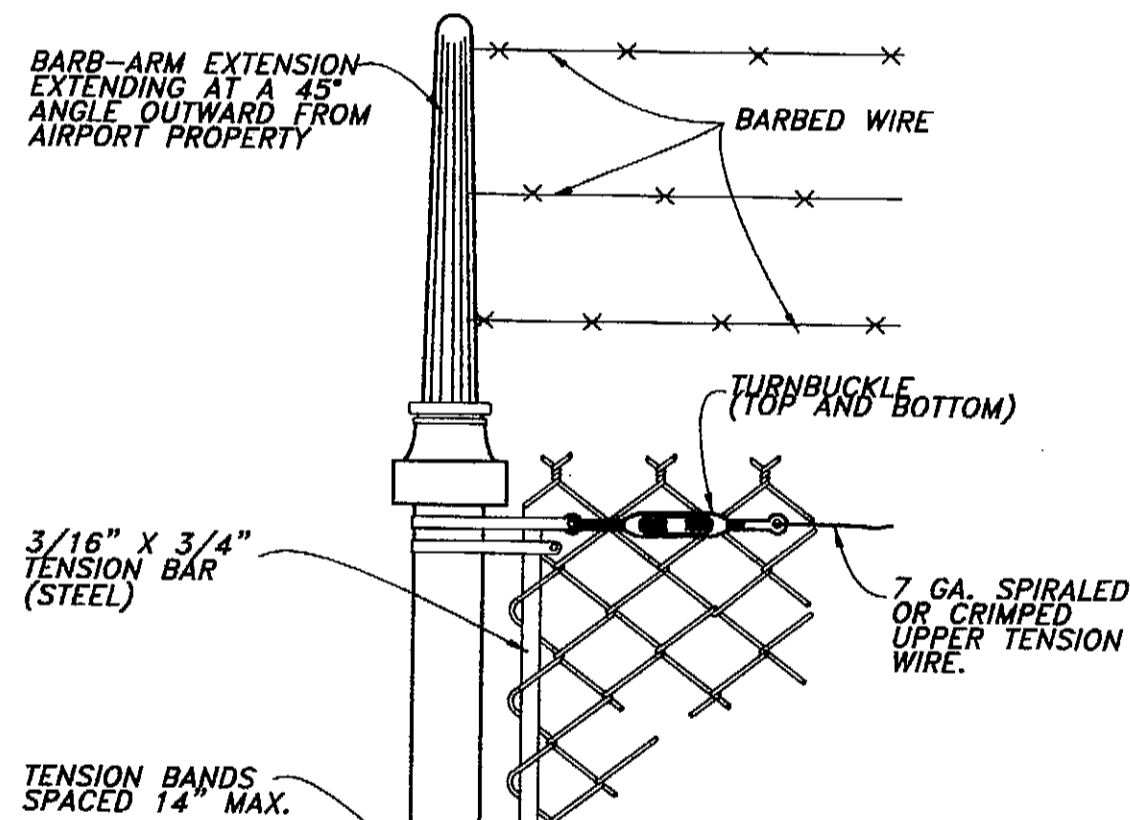
POST INSTALLATION SUMMARY		
ORGANIC SOIL DEPTH	LINE POST DIAMETER (NOMINAL)	PULL POST DIAMETER (NOMINAL)
< 2'	2"	2 1/2"
2' TO 5'	2 1/2" (SEE NOTE 1)	2 1/2" W/FIN (SEE NOTE 2)
> 5'	2 1/2" W/FIN (SEE NOTE 1)	2 1/2" W/FIN

NOTE:
REFER TO GEOTECHNICAL PROBE RESULTS PREPARED BY ADOT/PF FOR INFORMATION ON ORGANIC SOIL DEPTHS ALONG THE FENCE LINE.



2 EA. PLATES AT 180° INCREMENTS FOR LINE POSTS (PLACED PARALLEL TO FENCE DIRECTION)
4 EA. PLATES AT 90° INCREMENTS FOR PULL POSTS

POST FIN DETAIL
NOT TO SCALE



METHOD OF ATTACHING FABRIC AND TENSION BAR TO ANY TERMINAL OR PULL POST.

2 7/8" O.D. PIPE

TENSION BANDS SPACED 14" MAX.

3/16" X 3/4" TENSION BAR (STEEL)

7 GA. SPIRALED OR CRIMPED UPPER TENSION WIRE.

TURNBUCKLE (TOP AND BOTTOM)

BARBED WIRE

BARB-ARM EXTENSION

BARBED WIRE

BARBED WIRE

BARBED WIRE

BARBED WIRE

BARBED WIRE

BARBED WIRE

BARBED WIRE

BARBED WIRE

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BARBED WIRE

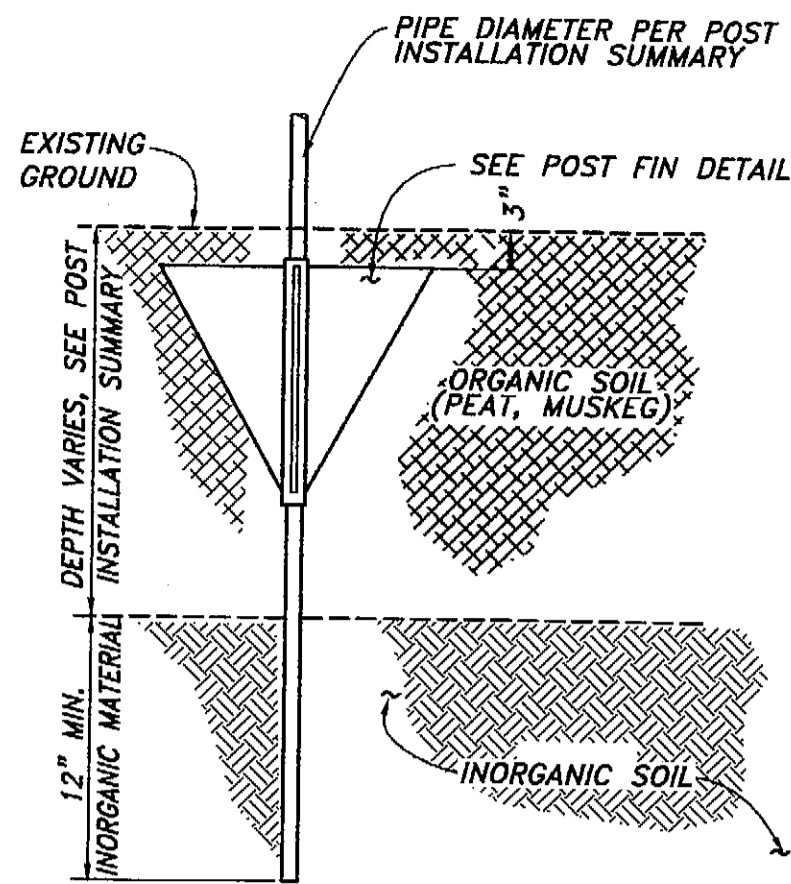
BARBED WIRE

BARBED WIRE

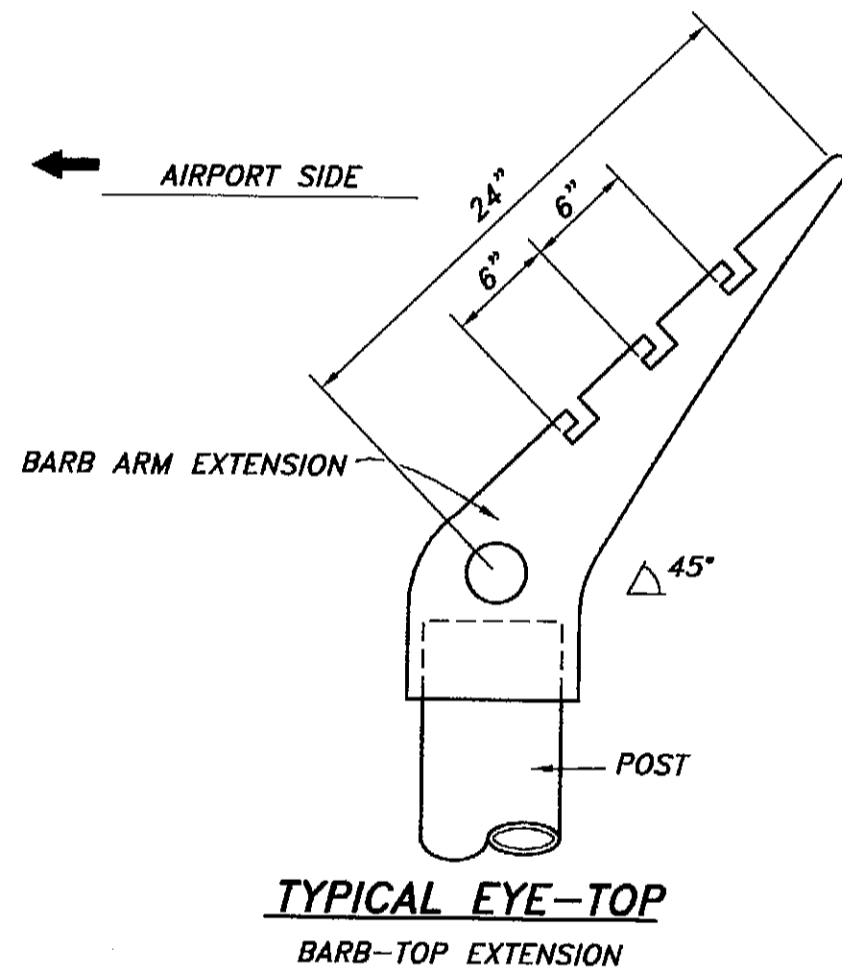
BARBED WIRE

BARBED WIRE

TERMINAL POST DETAIL
NOT TO SCALE

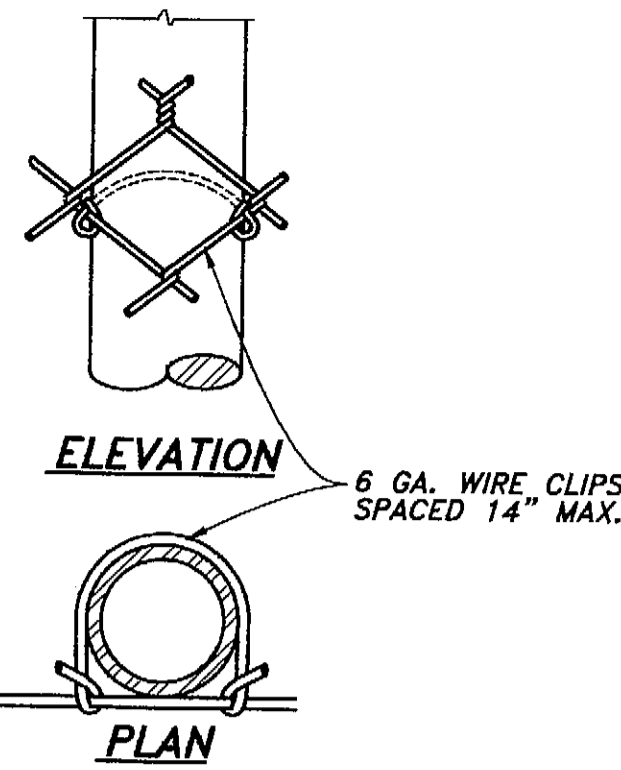


POST FOOTING DETAIL
NOT TO SCALE

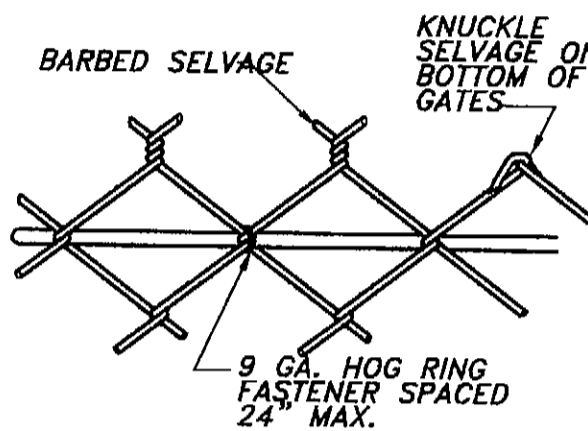


TYPICAL CORNER TERMINAL
NOT TO SCALE

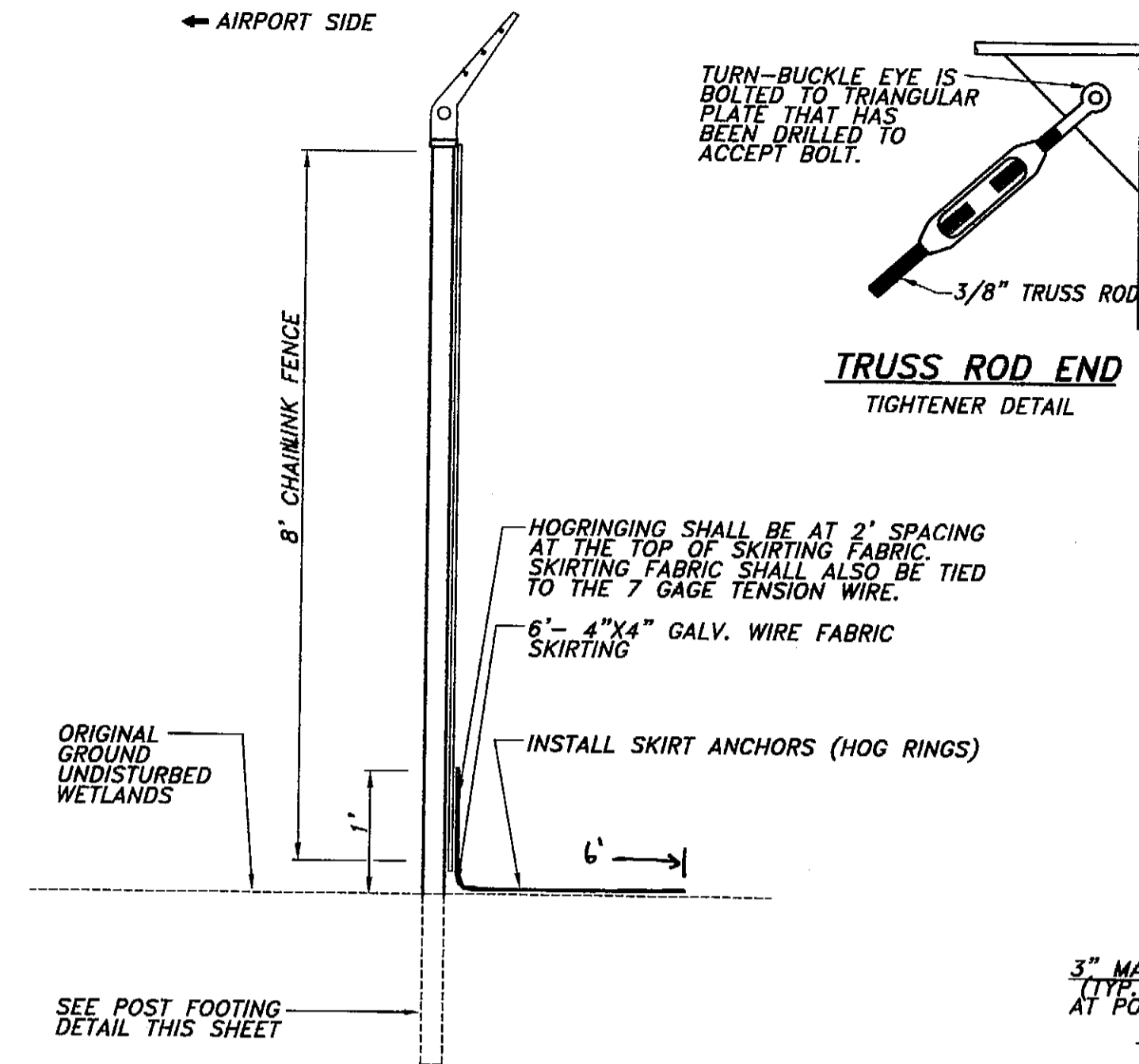
NOTE:
1. TYPICAL TOP FOR ALL LINE AND PULL POSTS.



TYPICAL METHOD OF TYING FABRIC TO LINE POSTS



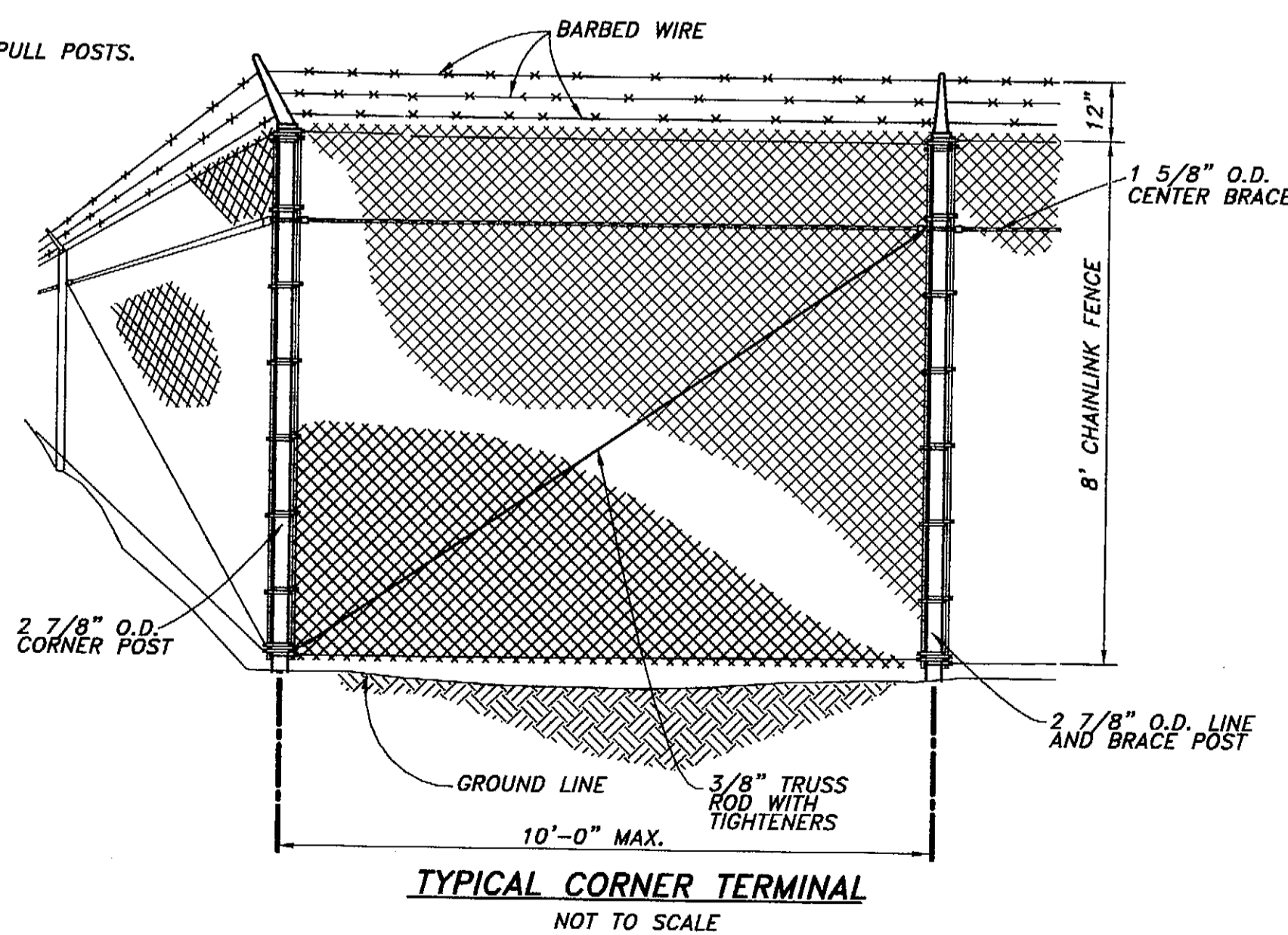
TYPICAL METHOD OF TYING FABRIC TO TENSION WIRE



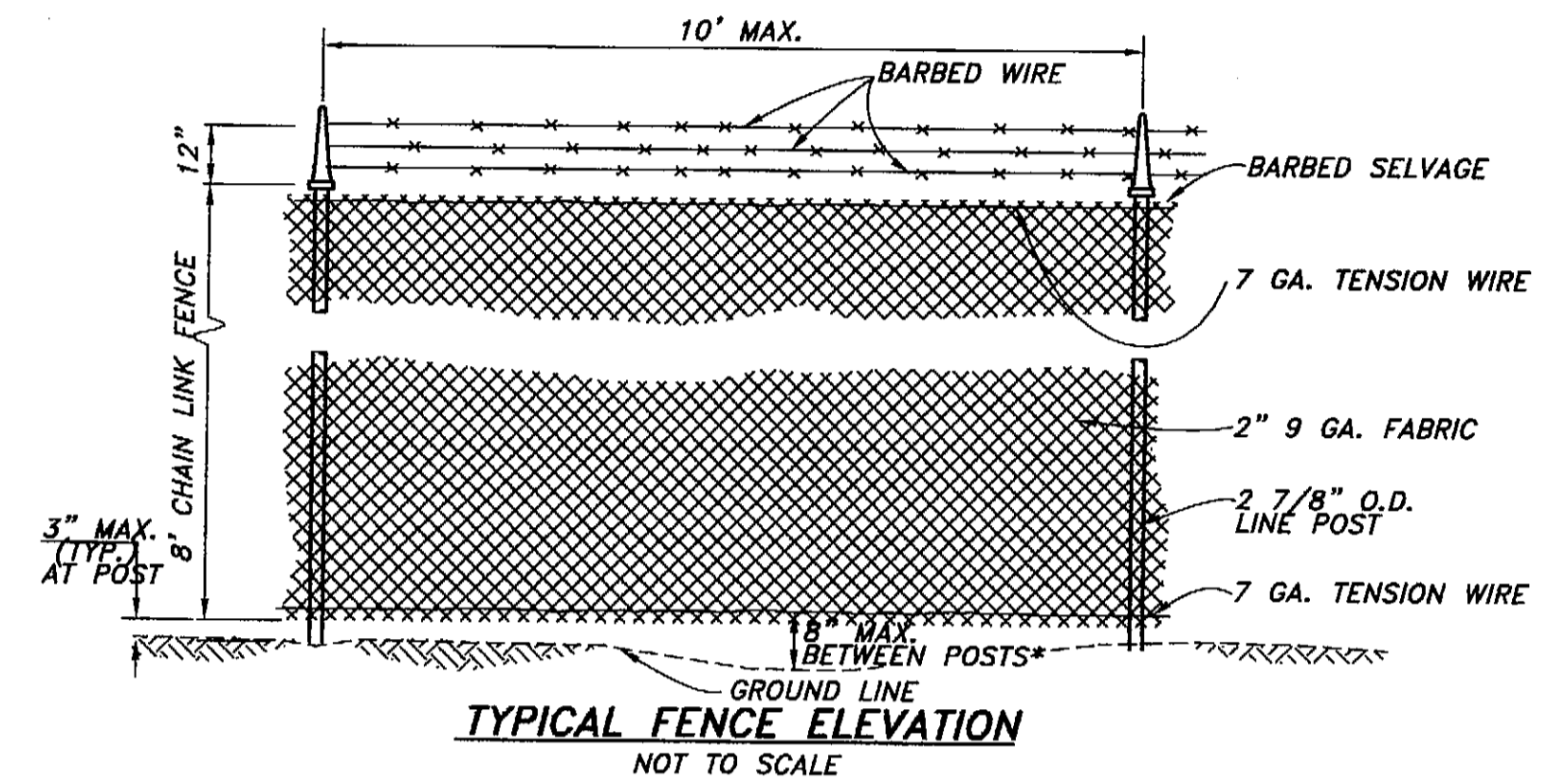
CHAIN LINK SKIRT DETAIL
WETLANDS AREAS ONLY
SEE NOTES 1, 2, 3, & 4

TYPICAL SECTION NOTES:

- MUSKEG AREAS ARE INDICATED ON THE SITE PLAN.
- ANY EQUIPMENT THAT TRAVERSES THE WETLAND FOR FENCE INSTALLATION MUST BE SMALL, TRACKED AND LOW GROUND PRESSURE (SUCH AS NODWELL OR BOMBADIER). NO OTHER EQUIPMENT IS ALLOWED OUTSIDE OF THE EXCAVATION LIMITS.
- SEE DETAILS THIS SHEET FOR SPECIAL DETAILS ON FENCE FOOTINGS IN WETLANDS AREAS.
- NO EXCAVATION AND NO GRUBBING IS ALLOWED FOR SKIRT INSTALLATION. WOODY VEGETATION SHALL BE CUT AT GROUND LEVEL. NON-WOODY PLANTS SHALL BE LEFT IN PLACE TO GROW UP THROUGH THE SKIRTING.
- POSTS SHALL BE DRIVEN.



TYPICAL PULL POST DETAIL
NOT TO SCALE



TYPICAL FENCE ELEVATION
NOT TO SCALE

A:\2001\PROJ\011465_01\CIVIL\1465-D1.dwg PLOT: September 25, 2003 at: 1:13pm

RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION OF CHANGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PETERSBURG

AIRPORT SAND AND CHEMICAL
STORAGE BUILDING
FENCE DETAILS

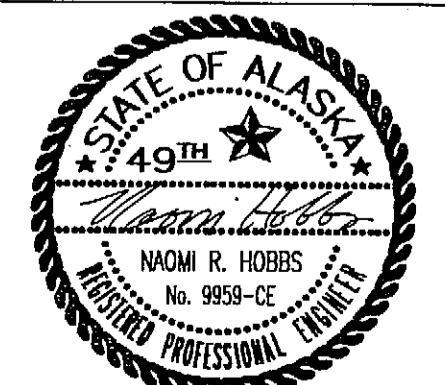
ALASKA

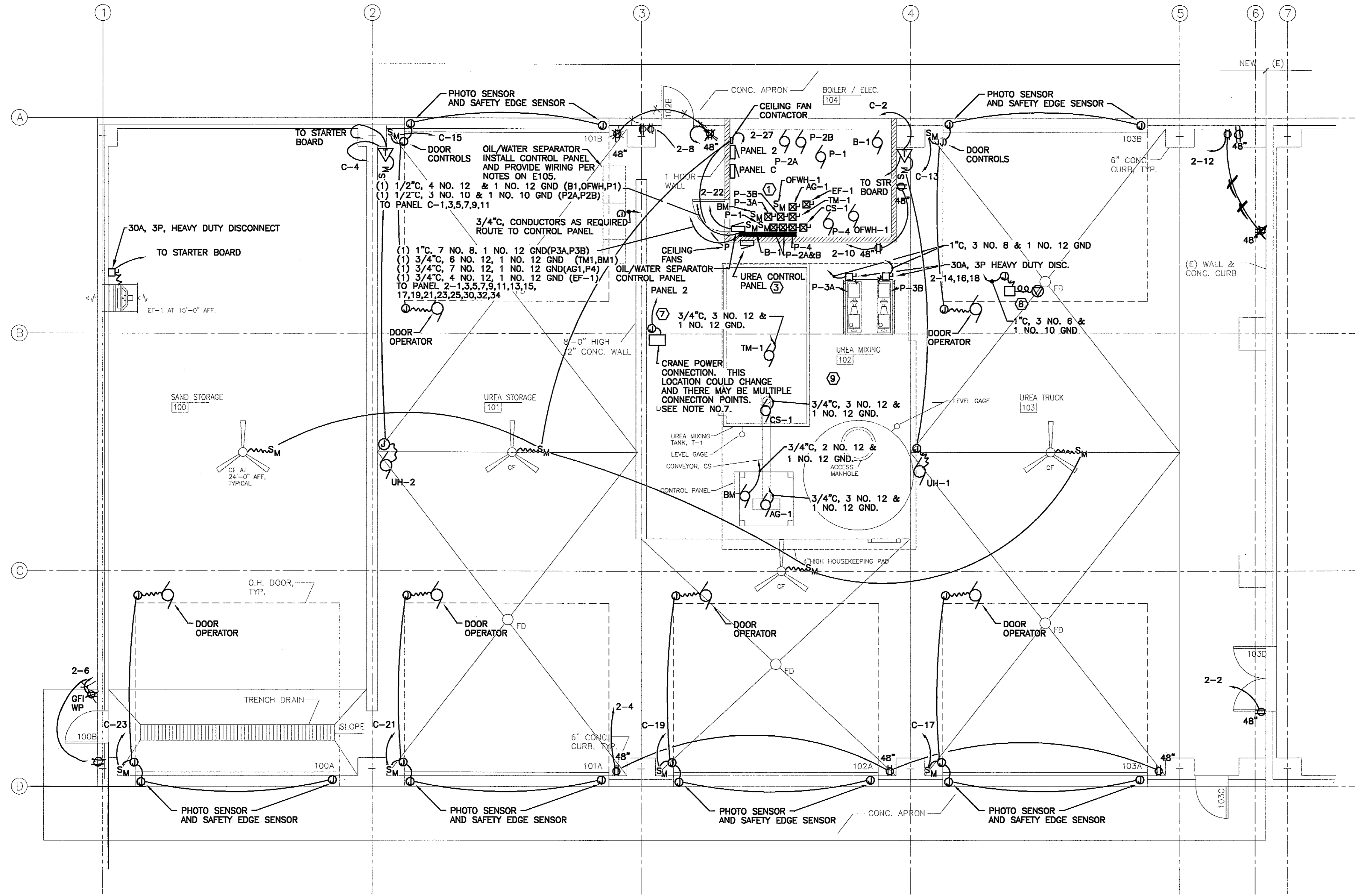
DESIGNED BY: NRH	PROJECT NO. 68386
DRAWN BY: NRH/DHH	AIP 3-02-0219-0903
CHECKED BY: MCS	DATE: OCTOBER 3, 2003
	SHEET C7 OF 34

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL





FLOOR PLAN - POWER

- NOTES:
- INSTALL ALL MOTOR STARTERS ON THE MOUNTING BOARD AS SHOWN. MOUNT A 6"x6"x4" WIREWAY ON THE 4"x4"x3/4" PLYWOOD MOUNTING BOARD. MOUNT THE TOP OF THE BOARD AT 72". MOUNT THE WIREWAY ACROSS THE MIDDLE OF THE BOARD. STAGER THE STARTERS IN ROWS ABOVE AND BELOW THE WIREWAY. FEED THE STARTERS FROM PANELS 2 AND C AS SHOWN. POWER THE MOTORS FROM THE STARTERS USING THE SAME CONDUIT & CONDUCTOR SIZES AS SHOWN FOR THE BRANCH CIRCUITING FEEDING THE STARTERS. LOCATE THE CONDUIT FEEDING THE STARTERS AND THE CONDUIT FEEDING THE MOTORS NEXT TO THE STARTER LOCATION ON THE BOARD TO MINIMIZE WIRE FILL IN THE WIREWAY.
 - MOUNT A JUNCTION BOX NEXT TO EACH MOTOR. FEED THE MOTOR WITH FLEXIBLE CONDUIT.
 - PROVIDE CONTROLS PER THE CONTROLS SCHEMATICS ON SHEETS E102 & E104 AND AS SHOWN ON THE MECHANICAL EQUIPMENT SCHEDULE. THE PUSH BUTTONS FOR THE UREA EQUIPMENT AND CEILING FANS SHALL BE MOUNTED IN THE DOOR OF A STAINLESS STEEL NEMA 4X ENCLOSURE SEMI-FLUSH MOUNTED ON THE EXTERIOR OF THE BOILER ROOM WALL. PROVIDE A HINGED DOOR WITH A HANDLE. MOUNT THE RELAYS ON A BACK PANEL IN THE ENCL. EACH PUSH BUTTON SHALL BE LABELED INDIVIDUALLY AND A LARGER LABEL SHALL BE PROVIDED ABOVE ALL THE SWITCHES THAT SAYS "UREA CONTROL SWITCHES". THE PUSH BUTTONS SHALL BE ALLEN BRADLEY BULLETIN 800H 30.5 mm NEMA 4X CORROSION RESISTANT/OILTIGHT/WATER TIGHT WITH MUSHROOM HEAD. PROVIDE WITH ILLUMINATED WITH GREEN LED LAMP FOR "ON" BUTTONS ONLY). THE RELAYS SHALL BE ALLEN BRADLEY HEAVY DUTY RELAYS BULLETIN 700-P ELECTRICALLY HELD RELAY OR EQUAL.
 - PROVIDE CONTROLS FOR THE UNIT HEATERS PER THE SCHEMATIC ON SHEET E104.
 - THIS BUILDING IS AN ADDITION TO THE ARFF BUILDING. PANELS 2 AND C ARE FED FROM THE PANELS IN THE EXISTING BUILDING PER THE SINGLE LINE DIAGRAMS. PERFORM A SITE VISIT AND FIELD VERIFY THE DISTANCES AND CONDUIT ROUTING PATHS NECESSARY TO FEED PANELS 2 AND C AS SHOWN ON THE SINGLE LINE DIAGRAM. PERFORM ADDITIONAL WORK ON THE EXISTING PREMISES WIRING SYSTEM AS SHOWN ON THE SINGLE LINE DIAGRAMS. THE EXISTING BUILDING HAS A STANDBY GENERATOR. PERFORM ALL WORK SO AS NOT TO PREVENT THE AIRPORT LIGHTING EQUIPMENT FROM HAVING STANDBY POWER. ANY OUTAGES OF THE STANDBY GENERATOR SYSTEM SHALL BE DONE DURING DAYLIGHT IN GOOD WEATHER AND SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
 - ALL POWER, LIGHTING, & SIGNAL WIRING SHALL BE IN CONDUIT INCLUDING ALL CONTROLS. SURFACE MOUNT ALL DEVICES AND CONDUIT. FLUSH MOUNT ALL DEVICES AND CONCEAL ALL CONDUIT IN THE BOILER/MECH ROOM WALLS THAT FACE THE UREA BAYS. COORDINATE WITH OTHER DISCIPLINES AS NECESSARY TO PROVIDE BACKING MATERIALS AND STRUCTURE TO INSTALL ELECTRICAL EQUIPMENT AND DEVICES.
 - PROVIDE POWER FOR THE NEW CRANE. COORDINATE TO PROVIDE ALL OF THE POWER NECESSARY FOR THE NEW CRANE. POWER THE CRANE FROM PANEL 2. PROVIDE WIRING AND OTHER WORK AS REQUIRED TO PROVIDE CONTROLS FOR THE CRANE PER THE CRANE MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE A CORD REEL WITH A RECEPTACLE OR PLUG AS REQUIRED FOR THE NEW DOT UREA TRUCK. COORDINATE WITH DOT. MOUNT THE CORD REEL TO THE CEILING TRUSS. PROVIDE A 45 FOOT CORD, 3 NO. 6 + GND. LOCATE WHERE DIRECTED BY DOT.
 - THE UREA MIXING AREA IS A WET LOCATION.

NOTE:
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS
ENGINEER'S SEAL

PLANS DEVELOPED BY:
IHH Electrical

RECORD OF REVISIONS		
PATH:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PETERSBURG
PETERSBURG AIRPORT SAND & CHEMICAL
STORAGE BUILDING
FLOOR PLAN - POWER

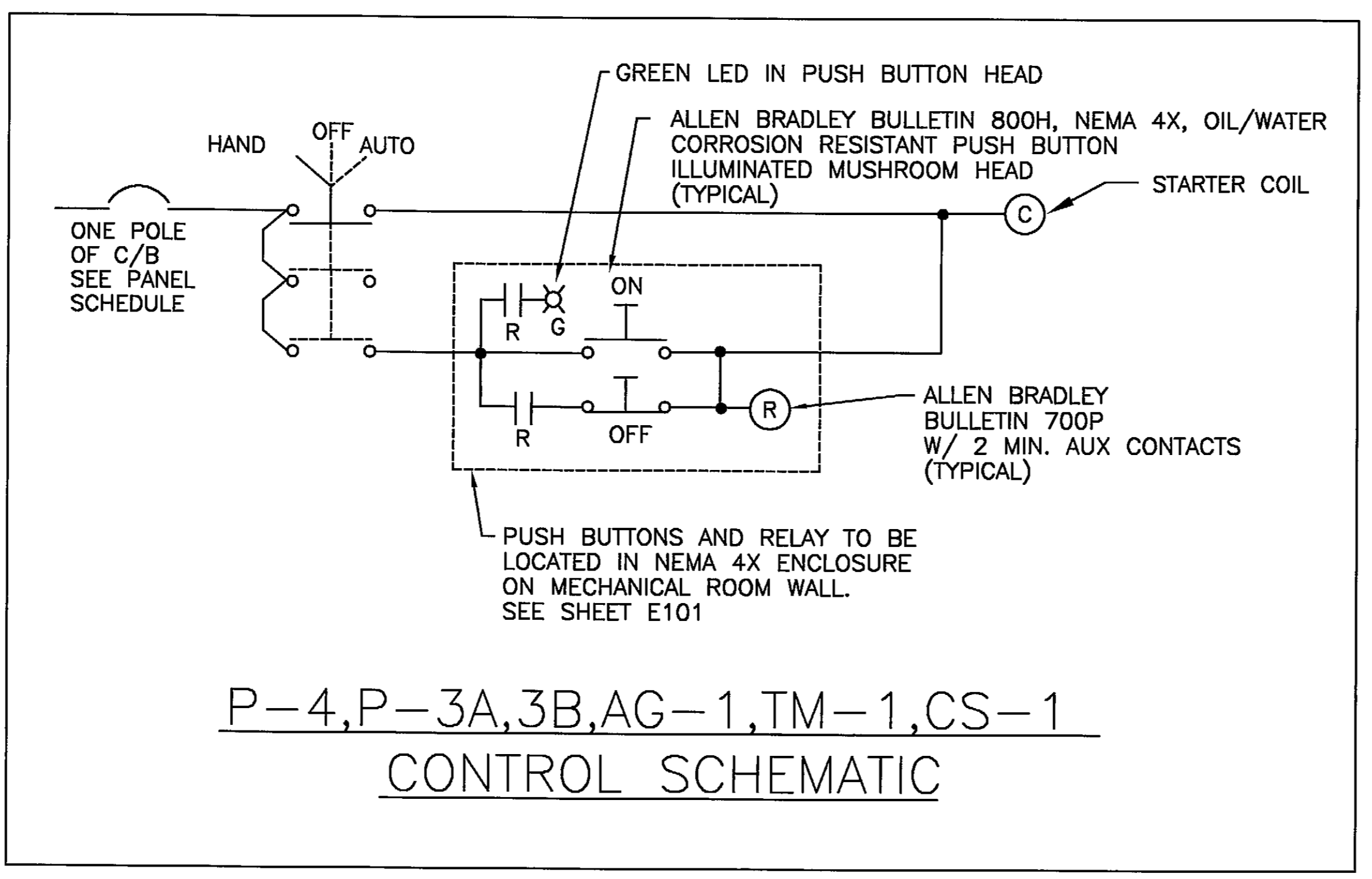
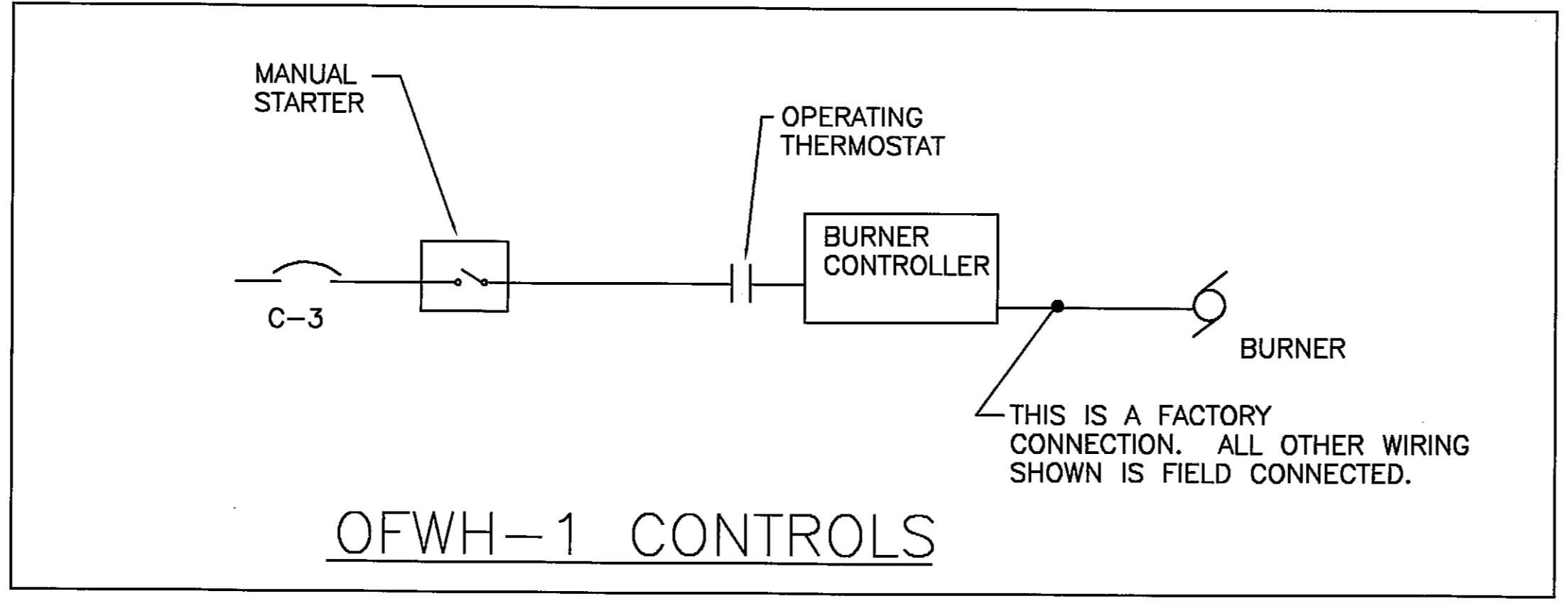
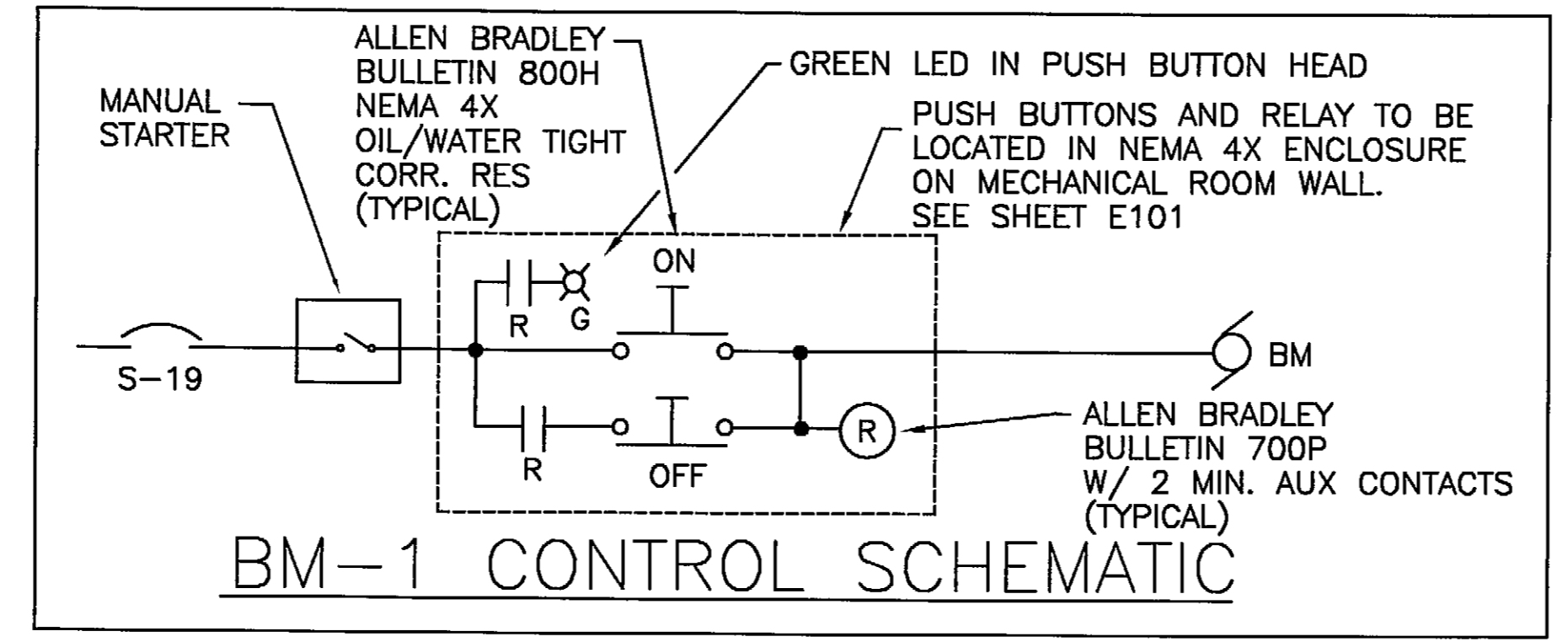
DESIGNED BY: MM
DRAWN BY: MM
CHECKED BY: MM

PROJECT NO. 68386
AIP 3-02-0219-0903
DATE:
OCTOBER 3, 2003
SHEET E101 OF 34



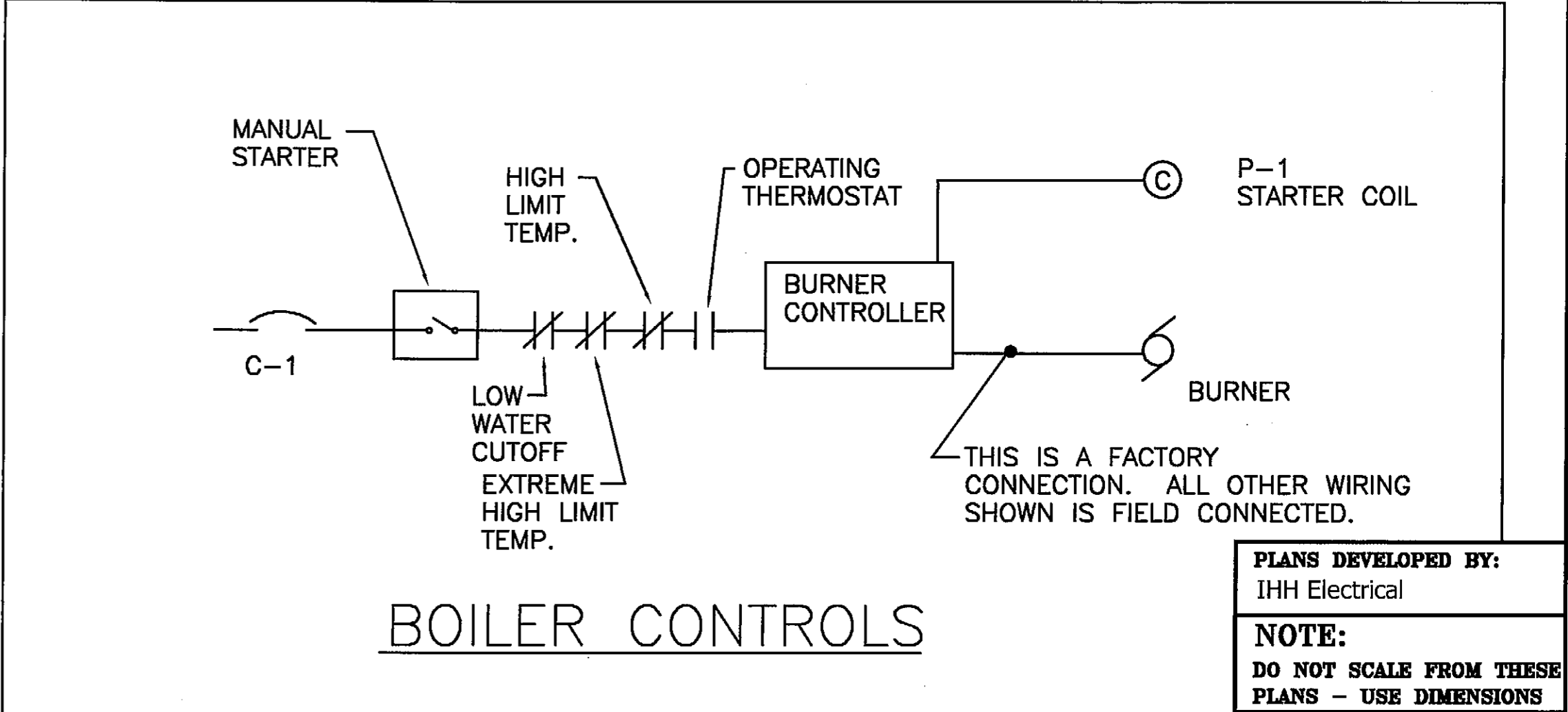
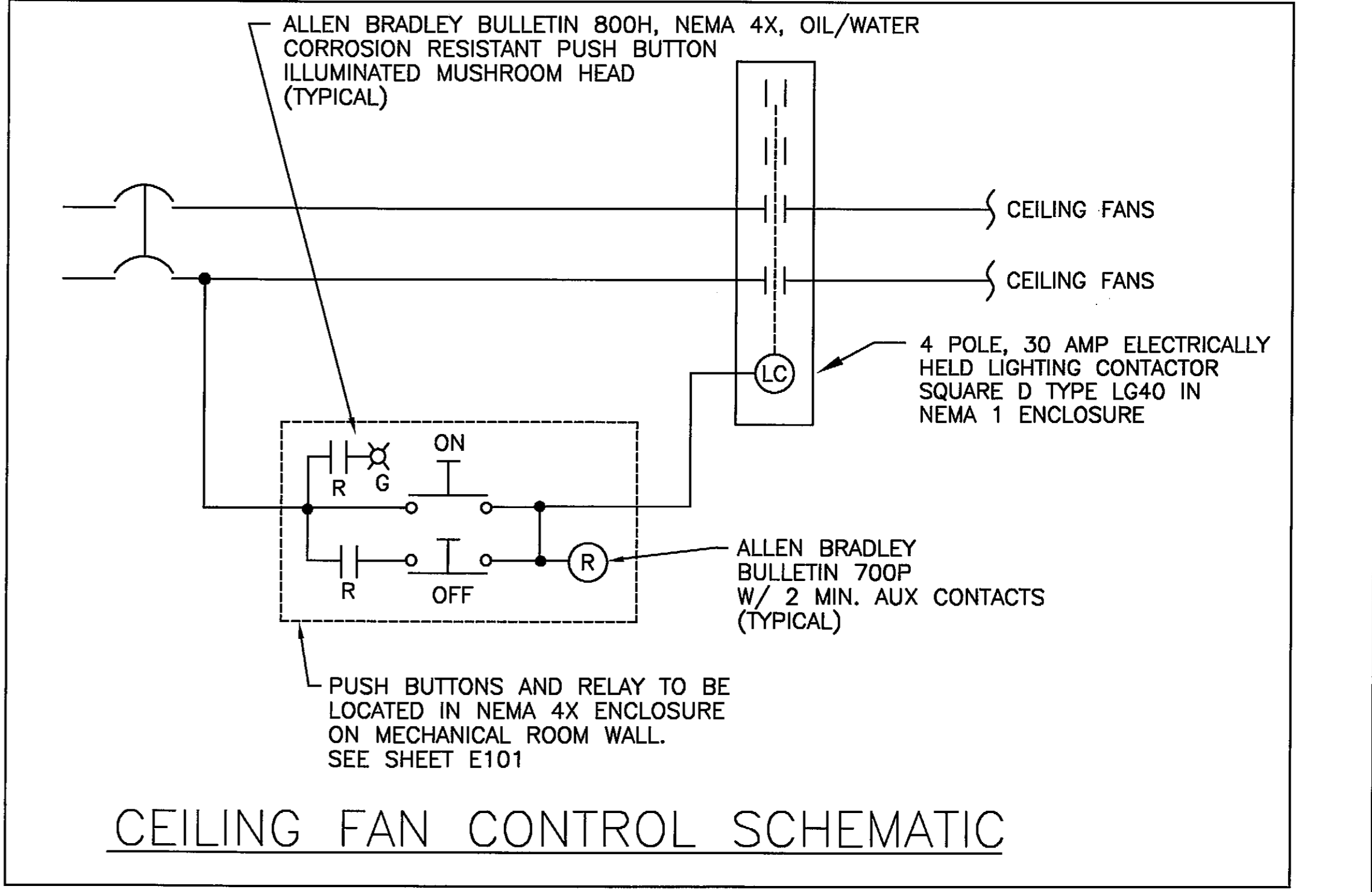
LEGEND:

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	DUPLEX RECEPTACLE	20" AFF TO TOP
	DOUBLE DUPLEX RECEPTACLE	20" AFF TO TOP
	GROUND FAULT INTERRUPTER	
	ABOVE FINISHED FLOOR	
	ABOVE FINISHED GROUND	
	SPECIAL RECEPTACLE	
	CEILING LUMINAIRE	
	WALL MOUNT LUMINAIRE	
	FLUORESCENT LUMINAIRE LETTER INDICATES FIXTURE TYPE "EM" INDICATES EMERGENCY BALLAST WITH 90 MIN. OF LIGHT AT 100% OF ONE LAMP OUTPUT	
	TELECOMMUNICATIONS RECEPTACLE	20" AFF TO TOP
	WEATHERPROOF	
	FIRE ALARM CONTROL PANEL	
	TELEVISION RECEPTACLE	
	MOTOR CONNECTION	
	JUNCTION BOX	
	SINGLE POLE SWITCH	48" TO TOP
	THREE WAY SWITCH	
	MANUAL STARTER	48" TO TOP
	SPEED CONTROL SWITCH	
	MAGNETIC NEMA STARTER	
	COMBINATION NEMA MAGNETIC STARTER	
	STROBE ONLY	
	PULL STATION	48" TO TOP
	HORN STROBE	80" TO BOTTOM
	WEATHER PROOF HORN	80" TO BOTTOM
	HEAT DETECTOR RATE OF RISE	
	SMOKE DETECTOR	
	HEAT DETECTOR (TEMP NOTED)	
	FLEXIBLE CONDUIT	
	CONDUIT WITH CONDUCTORS, SLASHES INDICATE NUMBER IF NOT TWO. EQUIP. GROUNDING CONDUCTOR NOT SHOWN.	



MECHANICAL SYSTEM EQUIPMENT SCHEDULE

EQUIPMENT	LOCATION	HP	VOLTS/PH	STARTER TYPE/ SIZE	STARTER SWITCH	STARTER/DISCONNECT LOCATION	DISCONNECT
BOILER, B-1	MECH 104	1/4	120/1	MANUAL, 1HP	ON-OFF	MOUNTING BOARD	W/ STARTER
OFWH-1	MECH 104	1/4	120/1	MANUAL, 1HP	ON-OFF	MOUNTING BOARD	W/ STARTER
UH-1,2	BAYS	1/4	120/1	MANUAL, 1HP	ON-OFF	BAYS	W/ STARTER
CF (4)	BAYS	0.2KW	120/1	MANUAL, 1HP	ON-OFF	BAYS	W/ STARTER
P-1	MECH 104	1/8	120/1	MAGNETIC, NEMA 0	HOA	MOUNTING BOARD	HEAVY DUTY
P-2A, P-2B	MECH 104	1/2	120/1	MAGNETIC, NEMA 0	HOA	MOUNTING BOARD	HEAVY DUTY
P-3A	MECH 104	7.5	208/3	MAGNETIC, NEMA 2	HOA	MOUNTING BOARD	HEAVY DUTY
P-3B	MECH 104	7.5	208/3	MAGNETIC, NEMA 2	HOA	MOUNTING BOARD	HEAVY DUTY
P-4	MECH 104	1	208/3	MAGNETIC, NEMA 0	HOA	MOUNTING BOARD	HEAVY DUTY
BM-1	MECH 102		120/1	MANUAL, 1HP	ON-OFF	MOUNTING BOARD	WITH STARTER
TM-1	MECH 102	3	208/3	MAGNETIC/NEMA 1	HOA	MOUNTING BOARD	HEAVY DUTY
AG-1	MECH 102	5	208/3	MAGNETIC/NEMA 0	HOA	MOUNTING BOARD	HEAVY DUTY
EF-1	SAND 100	3/4	208/3	MAGNETIC/NEMA 0	HOA	MOUNTING BOARD	HEAVY DUTY
CS-1	MECH 102	1.5	208/3	MAGNETIC/NEMA 0	HOA	MOUNTING BOARD	HEAVY DUTY



PLANS DEVELOPED BY:
IHH Electrical

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL

RECORD OF REVISIONS

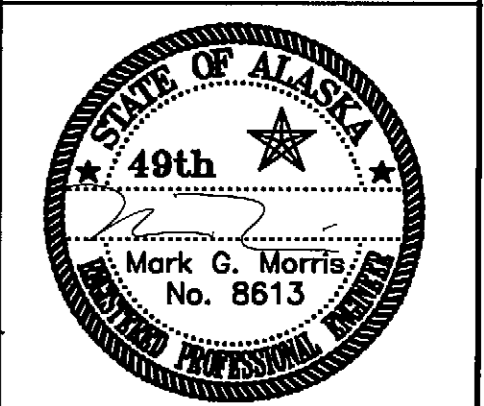
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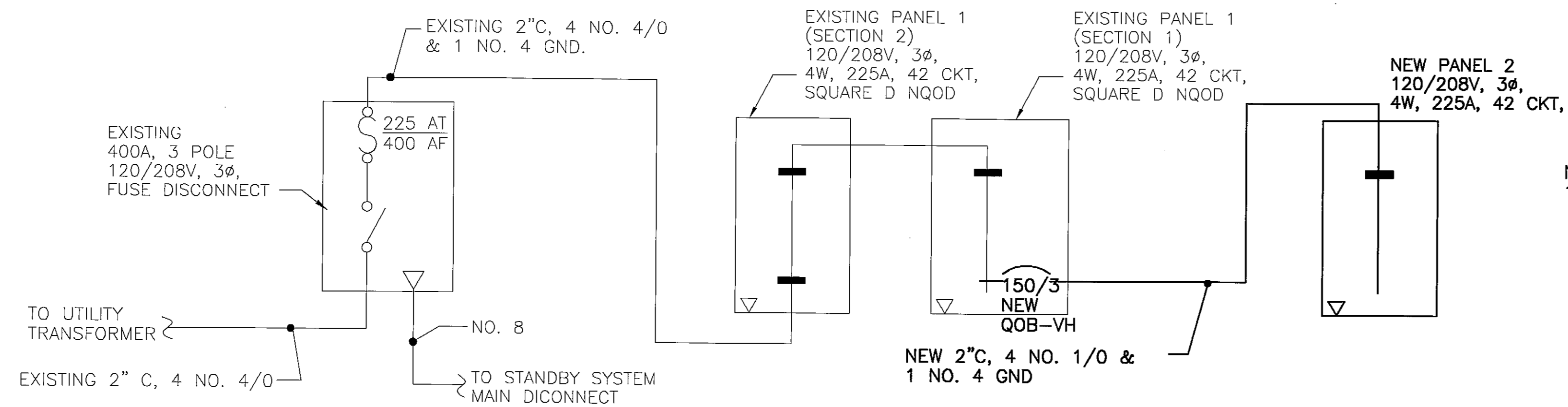
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PETERSBURG
PETERSBURG AIRPORT SAND & CHEMICAL
STORAGE BUILDING
MECH EQUIPMENT SCHEDULE, LEGEND, SCHEMATICS

DESIGNED BY: MM
DRAWN BY: MM
CHECKED BY: MM

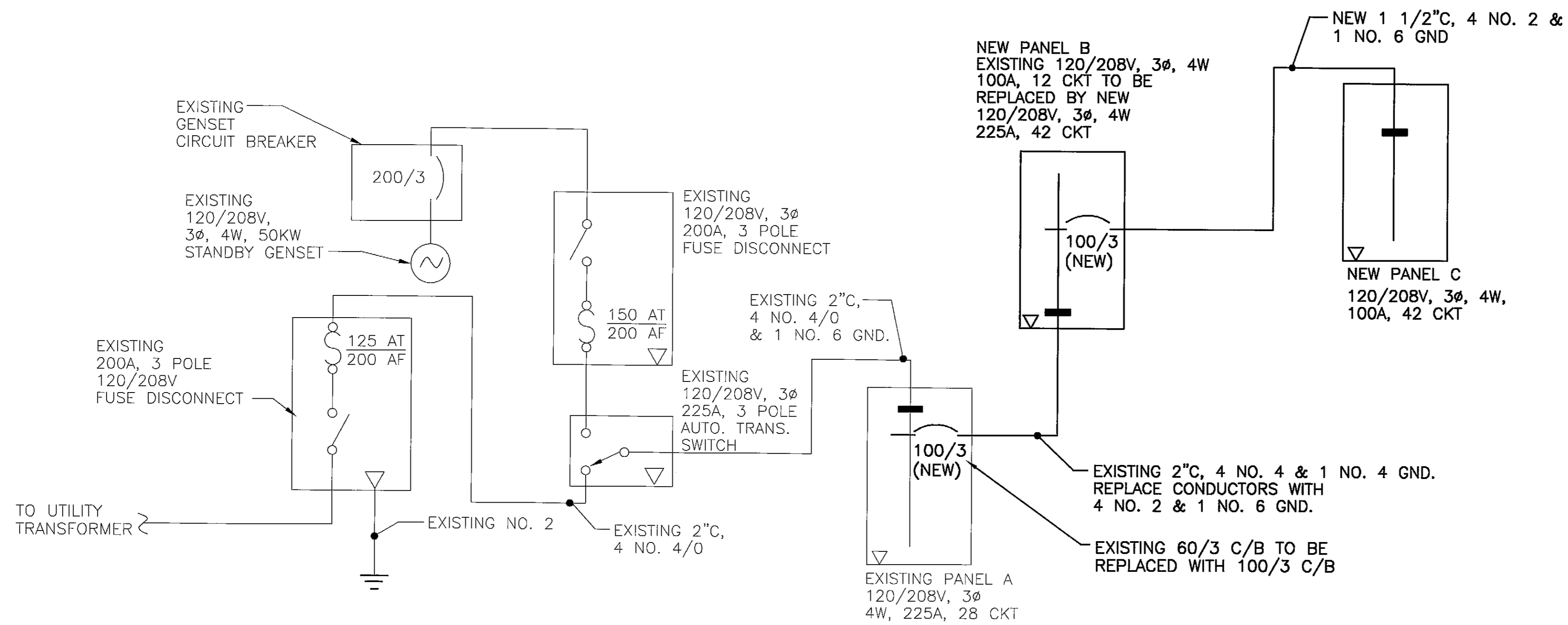
PROJECT NO. 68386
AIP 3-02-0219-0903
DATE: OCTOBER 3, 2003
SHEET E102 OF 34





NOTES:
 1. THE NEW CIRCUIT BREAKER IN PANEL 1, SECTION 1 WILL REQUIRE SIX SPACES. RELOCATE BRANCH CIRCUIT BREAKERS TO PROVIDE SIX SPACES NEXT TO EACH OTHER FOR THE NEW 150/3 CIRCUIT BREAKER. REMOVE SPARE CIRCUIT BREAKERS AS NECESSARY. IF SUFFICIENT SPACE IS NOT FOUND IN SECTION 1, INSTALL THE CIRCUIT BREAKER IN SECTION 2.

SINGLE LINE DIAGRAM - MAIN POWER



SINGLE LINE DIAGRAM - STANDBY POWER

DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

HOONAH

PETERSBURG AIRPORT SAND & CHEMICAL
 STORAGE BUILDING
 SINGLE LINE DIAGRAMS

ALASKA

DESIGNED BY: MM
 DRAWN BY: MM
 CHECKED BY: MM

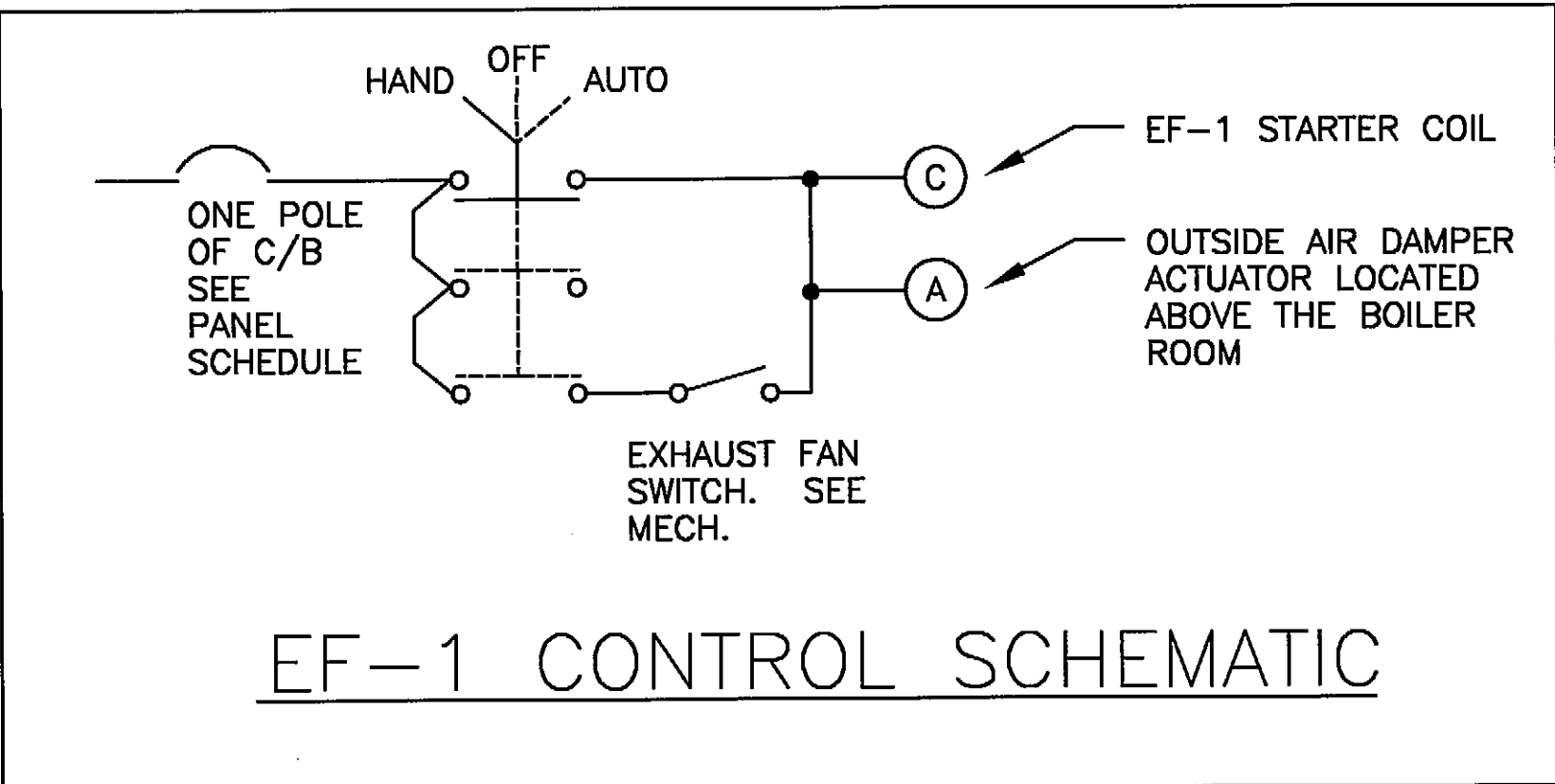
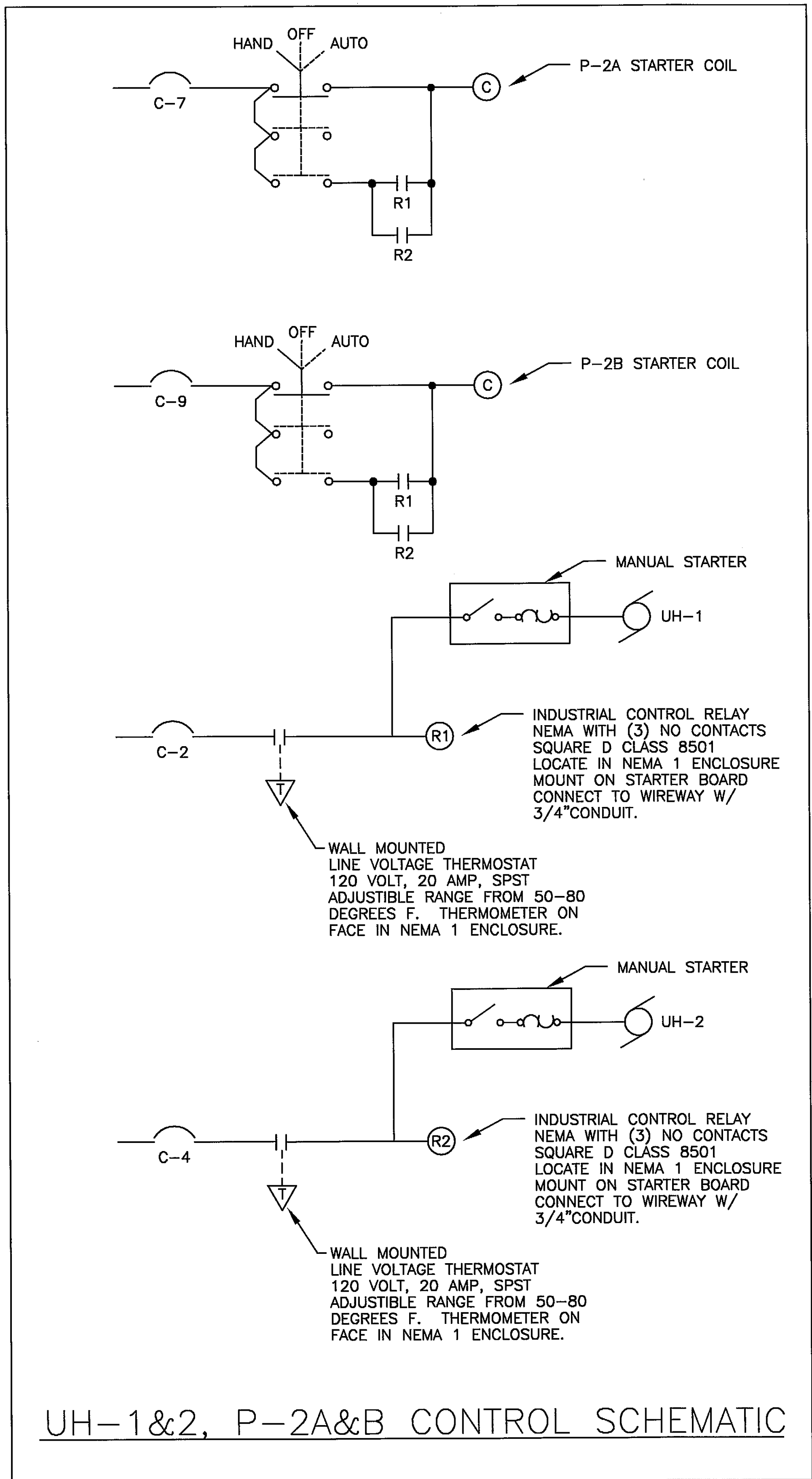
PROJECT NO. 68386
 AIP 3-02-0219-0903
 DATE:
 OCTOBER 3, 2003
 SHEET E103 OF 34

PLANS DEVELOPED BY:
 IHH Electrical

NOTE:
 DO NOT SCALE FROM THESE
 PLANS - USE DIMENSIONS

ENGINEER'S SEAL





PANEL C		SIZE	VOLTS, PHASE					MOUNTING	MAIN	LOCATION
		225A	120/208V, 3ø, 4W					SURFACE	LUGS ONLY	MECH. ROOM
CKT NO.	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO.
			CKT	Aø	Bø	Cø	CKT			
1	BOILER B-1	15/1	0.4	0.9			0.5	20/1	UNIT HEATER NO. 1	2
3	WATER HEATER OFWH	20/1	1.2		1.7		0.5	20/1	UNIT HEATER NO. 2	4
5	PUMP P-1	15/1	0.2			0.2	0.0	20/1	SPARE	6
7	PUMP P-2A	20/1	1.2	2.4			1.2	20/2	EAST ROW BAY LIGHTING	8
9	PUMP P-2B	20/1	1.2		2.4		1.2	---	---	10
11	SPARE	20/1	0.0				1.4	20/2	CENTER AREA BAY LIGHTING	12
13	UREA TRUCK BAY EAST DOOR	20/1	0.8	2.2			1.4	---	---	14
15	UREA STORAGE BAY EAST DOOR	20/1	0.8		1.4		0.6	20/2	WEST OF CENTER BAY LIGHTING	16
17	UREA TRUCK BAY WEST DOOR	20/1	0.8			1.4	0.6	---	---	18
19	UREA MIXING BAY WEST DOOR	20/1	0.8	1.8			1.0	20/2	WEST ROW BAY LIGHTING	20
21	UREA STORAGE BAY WEST DOOR	20/1	0.8		1.8		1.0	---	---	22
23	SAND STORAGE BAY WEST DOOR	20/1	0.8			2.6	1.8	20/1	EXTERIOR LIGHTING	24
25	SPARE			0.3			0.3	20/1	MECHANICAL ROOM LIGHTING	26
27								20/1	SPARE	28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
TOTAL CONNECTED LOAD = 20.7 KVA/57 AMPS			7.6	7.3	5.8					

PANEL 2		SIZE	VOLTS, PHASE					MOUNTING	MAIN	LOCATION
		225A	120/208V, 3ø, 4W					SURFACE	LUGS ONLY	MECH 104
CKT NO.	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO.
			CKT	Aø	Bø	Cø	CKT			
1	PUMP P-3A	50/3	3.0	3.2			0.2	20/1	SOUTH WALL RECEPTACLE	2
3	---	---	3.0		3.6		0.6		WEST WALL RECEPTACLE	4
5	---	---	3.0			3.2	0.2		NORTH WALL EXTERIOR RECEPTACLE	6
7	PUMP P-3B	50/3	3.0	3.4			0.4		EAST WALL RECEPTACLE	8
9	---	---	3.0		3.4		0.4		EAST WALL (UREA MIXING BAY)	10
11	---	---	3.0			3.4	0.4		EAST WALL UREA TRUCK	12
13	TM-1	20/3	1.3	4.6			3.3	50/3	UREA TRUCK HEATER	14
15	---	---	1.3		4.6		3.3	---	---	16
17	---	---	1.3			4.6	3.3	---	---	18
19	BM	20/1	0.3	0.3			0.0	20/1	SPARE	20
21	AG-1	15/3	0.8		0.9		0.1	20/1	OIL/WATER SEPARATOR	22
23	---	---	0.8			1.6	0.8	15/3	CS-1	24
25	---	---	0.8	1.6			0.8	---	---	26
27	CEILING FANS	20/1	0.7		1.5		0.8	---	---	28
29	EF-1	15/3	0.4		0.9		0.5	15/3	P-4	30
31	---	---	0.4	0.9			0.5	---	---	32
33	---	---	0.4		0.9		0.5	---	---	34
35	SPACE							20/1	SPARE	36
37										38
39										40
41										42
TOTAL CONNECTED LOAD = 43.8 KVA/122 AMPS			14.3	14.5	13.7	TOTAL DEMAND LOAD = 37.8 KVA/105 AMPS				

PATH:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PETERSBURG ALASKA
PETERSBURG AIRPORT SAND & CHEMICAL
STORAGE BUILDING
CONTROL SCHEMATIC, PANEL SCHEDULE

DESIGNED BY: MM
DRAWN BY: MM
CHECKED BY: MM

PROJECT NO. 68386
AIP 3-02-0219-0903
DATE: OCTOBER 3, 2003
SHEET E104 OF 34

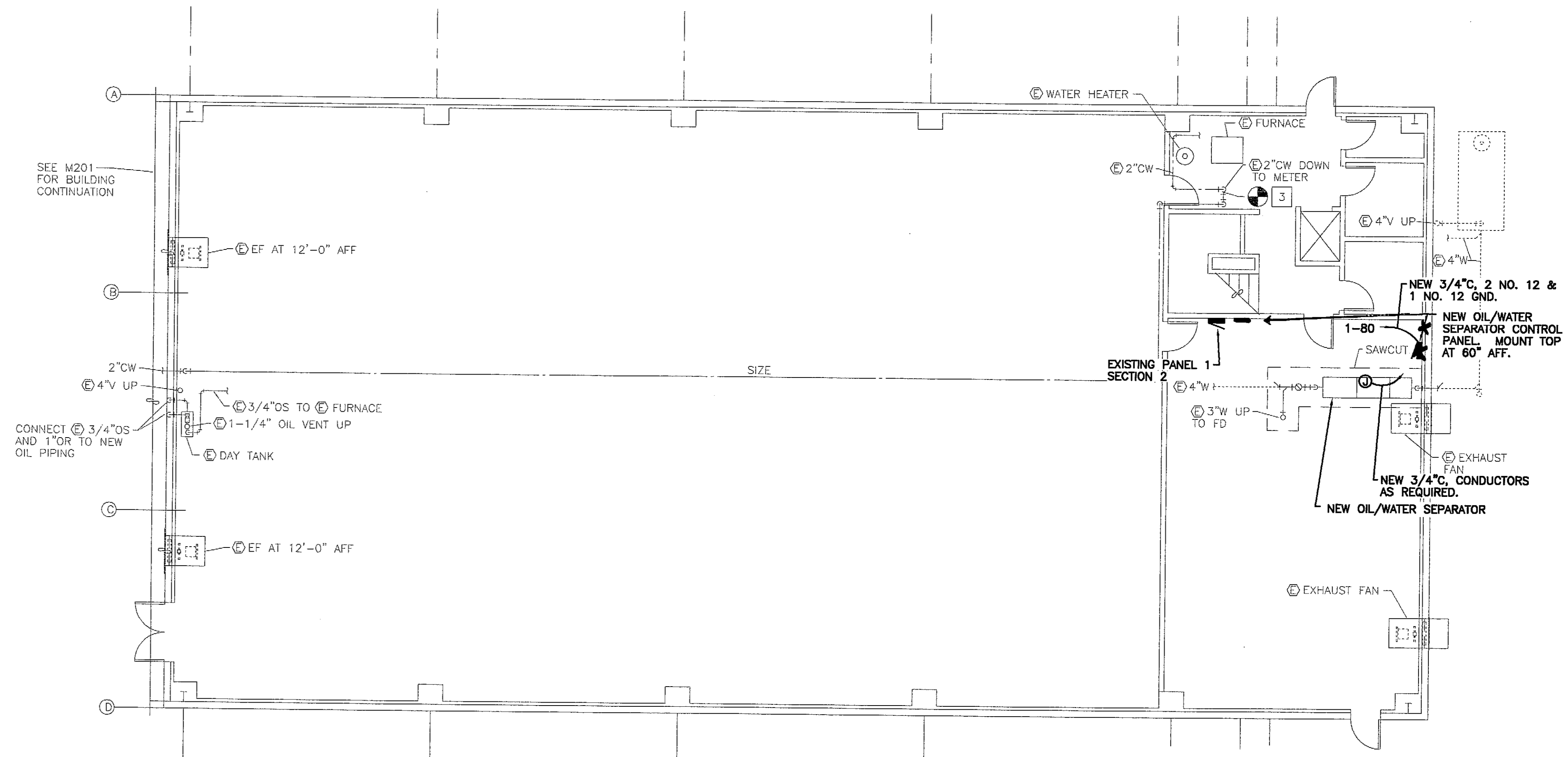
PLANS DEVELOPED BY:
IHH Electrical

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

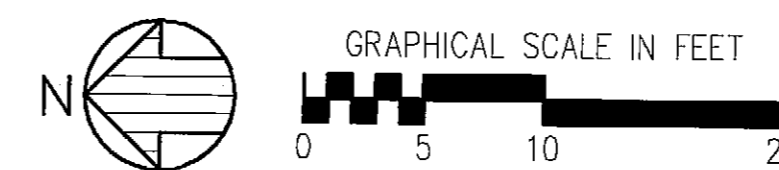
ENGINEER'S SEAL

NOTES:

- ① PROVIDE A NEW 20 AMP. SINGLE POLE CIRCUIT BREAKER IN PANEL 1, SECTION 2 THE PANEL IS A SQUARE D, NOOD PANEL. PROVIDE A COB CIRCUIT BREAKER. FEED THE NEW OIL/WATER SEPARATOR CONTROL PANEL FROM THIS CIRCUIT BREAKER IN CIRCUIT 80 OF THE PANEL. ROUTE THE CONDUIT UP THE WALL, OVER THE DOOR, AND AROUND THE WALL TO THE NEW CONTROL PANEL.
- ② A NEW OIL/WATER SEPARATOR IS BEING SUPPLIED UNDER DIVISION 15 OF THE SPECIFICATIONS. SEE SHEET M202. MOUNT THE CONTROL PANEL FOR THE OIL/WATER SEPARATOR WHERE SHOWN ON THIS DRAWING. POWER THE CONTROL PANEL FROM A NEW CIRCUIT BREAKER IN PANEL 1, SECTION 2 AS SHOWN. THE OIL/WATER SEPARATOR HAS LEVEL SWITCHES THAT COME WITH THE UNIT. INSTALL A CLASS 1, DIV. 1 RATED JUNCTION BOX OUTSIDE THE SEPARATOR UNDER THE ACCESS MANHOLE. ROUTE THE LEVEL SWITCH WIRES INTO THE JUNCTION BOX. PROTECT THE WIRES FROM PHYSICAL DAMAGE BY ROUTING THEM IN GRS FROM THE SEPARATOR TO THE J-BOX. LEAVE 18" MIN. OF SLACK IN THE WIRES FOR FUTURE RE-SPLICING. ROUTE A MIN. OF 4 NO. 14 IN 3/4" C FROM THE CONTROL PANEL TO THE J-BOX. INSTALL A CONDUIT SEAL AT THE J-BOX. USE CONTINUOUS GRS FROM THE J-BOX TO OUTSIDE THE CLASSIFIED AREA. PROVIDE AS MANY CONDUCTORS AS REQUIRED FOR THE LEVEL SENSORS. SPLICE THE CONDUCTORS FROM THE CONTROL PANEL TO THE LEVEL SWITCH WIRES WITH AN EPOXY ENCAPSULATED SPLICE. SIZE THE J-BOX LARGE ENOUGH TO HOLD ALL OF THE SPLICES, EXTRA WIRE, ETC. INSTALL A CONDUIT SEAL ON THE WIRES FROM THE LEVEL SENSORS. USE A SPLIT BODY CONDUIT SEAL TO ENABLE THE WIRES TO BE REMOVED LATER WITHOUT DAMAGING THE WIRES. CONNECT THE CONDUCTORS FROM THE LEVEL SWITCHES IN THE CONTROL PANEL AS WELL AS THE CIRCUIT FROM PANEL 1. INSTALL AND TEST THE CONTROL PANEL AND ASSOCIATED WIRING PER THE OIL/WATER SEPARATOR'S INSTALLATION INSTRUCTIONS. LABEL THE CIRCUIT BREAKER IN PANEL 1 AND PUT A LABEL ON THE COVER OF THE OIL/WATER SEPARATOR CONTROL PANEL STATING "DANGER-TURN OFF CIRCUIT BREAKER FEEDING OIL/WATER SEPARATOR PRIOR TO WORKING IN SEPARATOR. THE CIRCUIT BREAKER THAT FEEDS THIS SEPARATOR IS CKT 80 IN PANEL 1, SECTION 2". THE LABEL SHALL BE ENGRAVED OUT OF RED PLASTIC WITH WHITE LETTERS AT LEAST 1/2" HIGH. PROVIDE CONDUCTORS WITH THWN INSULATION THAT IS LISTED AS GASOLINE AND OIL RESISTANT AT 75 DEGREES C.
- ③ THE OIL/WATER SEPARATOR IS A CLASS 1, DIV. 1 LOCATION INCLUDING ALL AREA BELOW THE FLOOR. ALL WIRING IN THE CLASSIFIED AREA SHALL COMPLY WITH NEC ARTICLE 500.
- 4 A SECOND NEW OIL/WATER SEPARATOR IS BEING SUPPLIED UNDER DIVISION 15 OF THE SPECIFICATIONS AND IS BEING INSTALLED IN THE NEW BUILDING. SEE SHEET M201. INSTALL THE CONTROL PANEL FOR THIS SEPARATOR AND PROVIDE POWER AND WIRING IN THE SAME MANNER AS SHOWN ON THIS SHEET. THE CONTROL PANEL FOR THE SECOND OIL/WATER SEPARATOR IS LOCATED IN THE MECHANICAL ROOM 104 IN THE NEW BUILDING. POWER THE PANEL FROM THE NEW PANEL 2, CIRCUIT 22 IN ROOM 104. ROUTE THE CONDUCTORS IN A CONDUIT TO THE OIL/WATER SEPARATOR IN THE UREA STORAGE BAY. INSTALL A J-BOX IN THE SAME MANNER AS SHOWN FOR THE OIL/WATER SEPARATOR ON THIS SHEET. WIRE THE SYSTEM AND TEST IT AS DESCRIBED ABOVE.



FLOOR PLAN - EXISTING BUILDING



DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

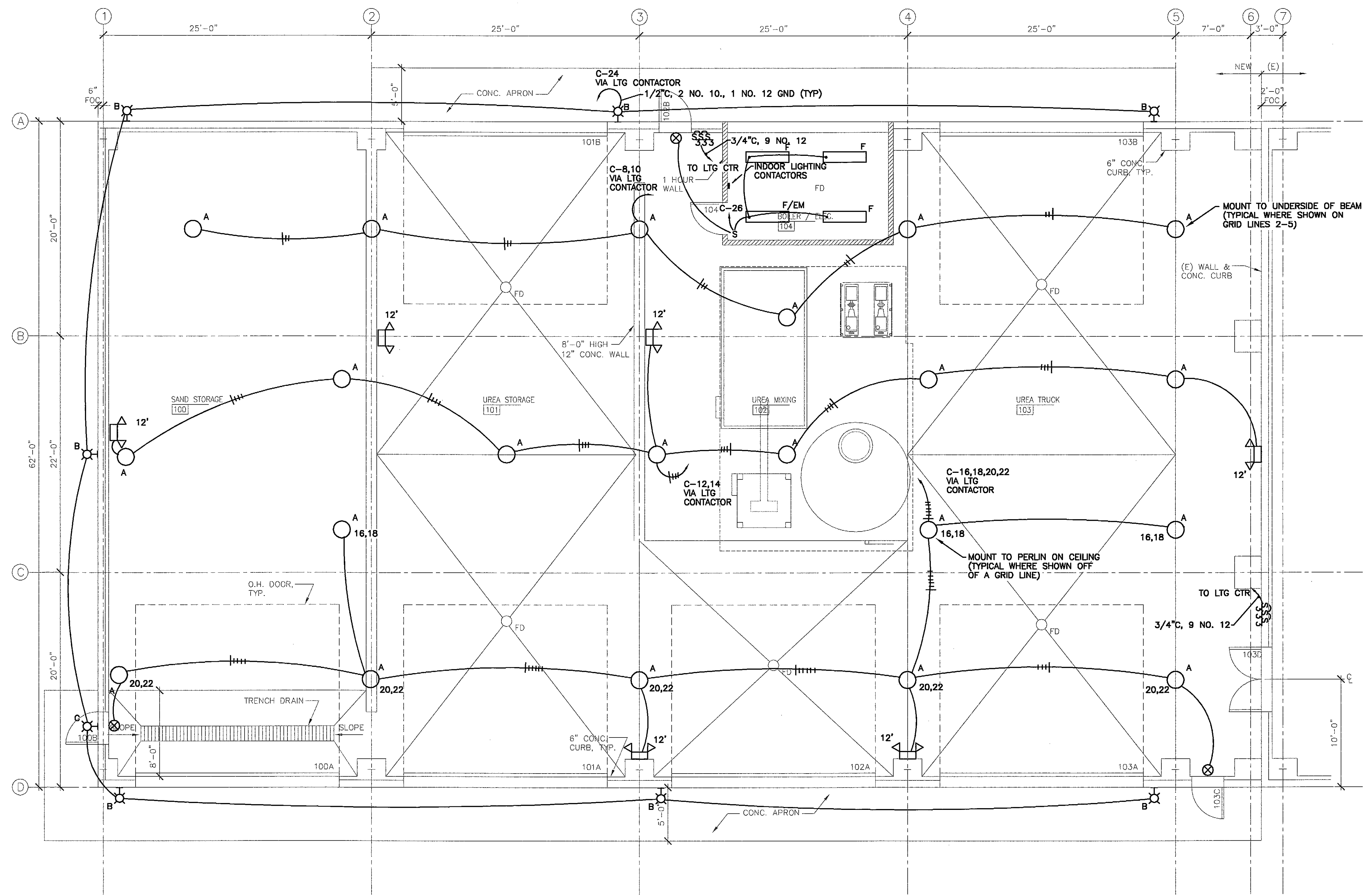
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PETERSBURG ALASKA
PETERSBURG AIRPORT SAND & CHEMICAL
STORAGE BUILDING
FLOOR PLAN - EXISTING BUILDING

DESIGNED BY:	MM	PROJECT NO. 68386
DRAWN BY:	MM	AIP 3-02-0219-0903
CHECKED BY:	MM	DATE: OCTOBER 3, 2002
		SHEET E105 OF 34

PLANS DEVELOPED BY:
IHH ELECTRICAL

ENGINEER'S SEAL



FLOOR PLAN - LIGHTING

PLANS DEVELOPED BY:
IHH Electrical

NOTE:
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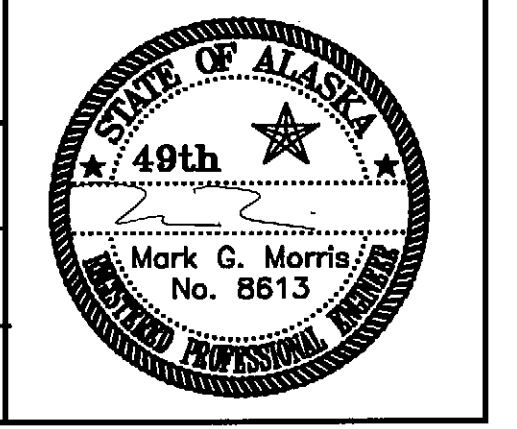
ENGINEER'S SEAL

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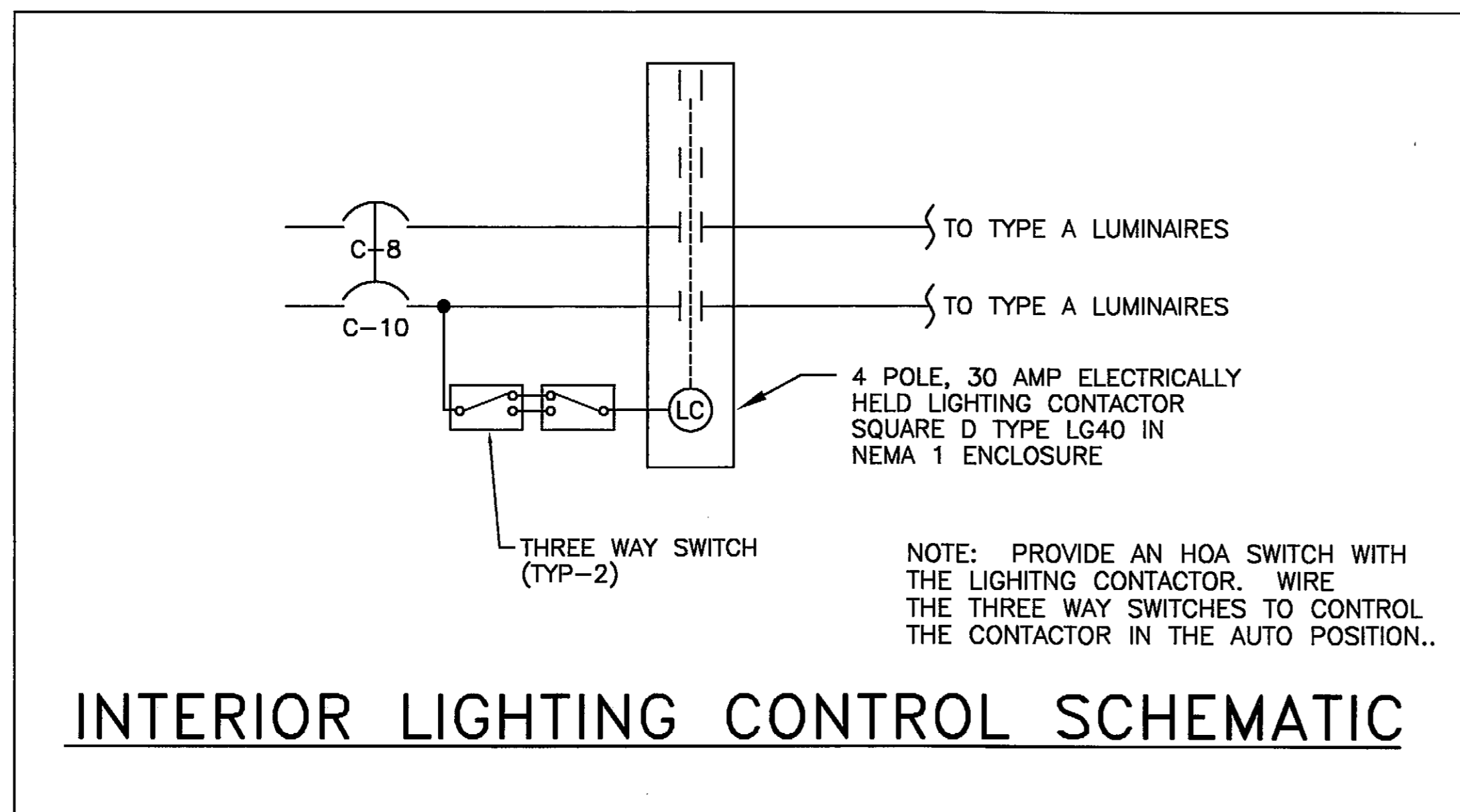
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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PETERSBURG ALASKA
PETERSBURG AIRPORT SAND & CHEMICAL
STORAGE BUILDING
FLOOR PLAN - LIGHTING

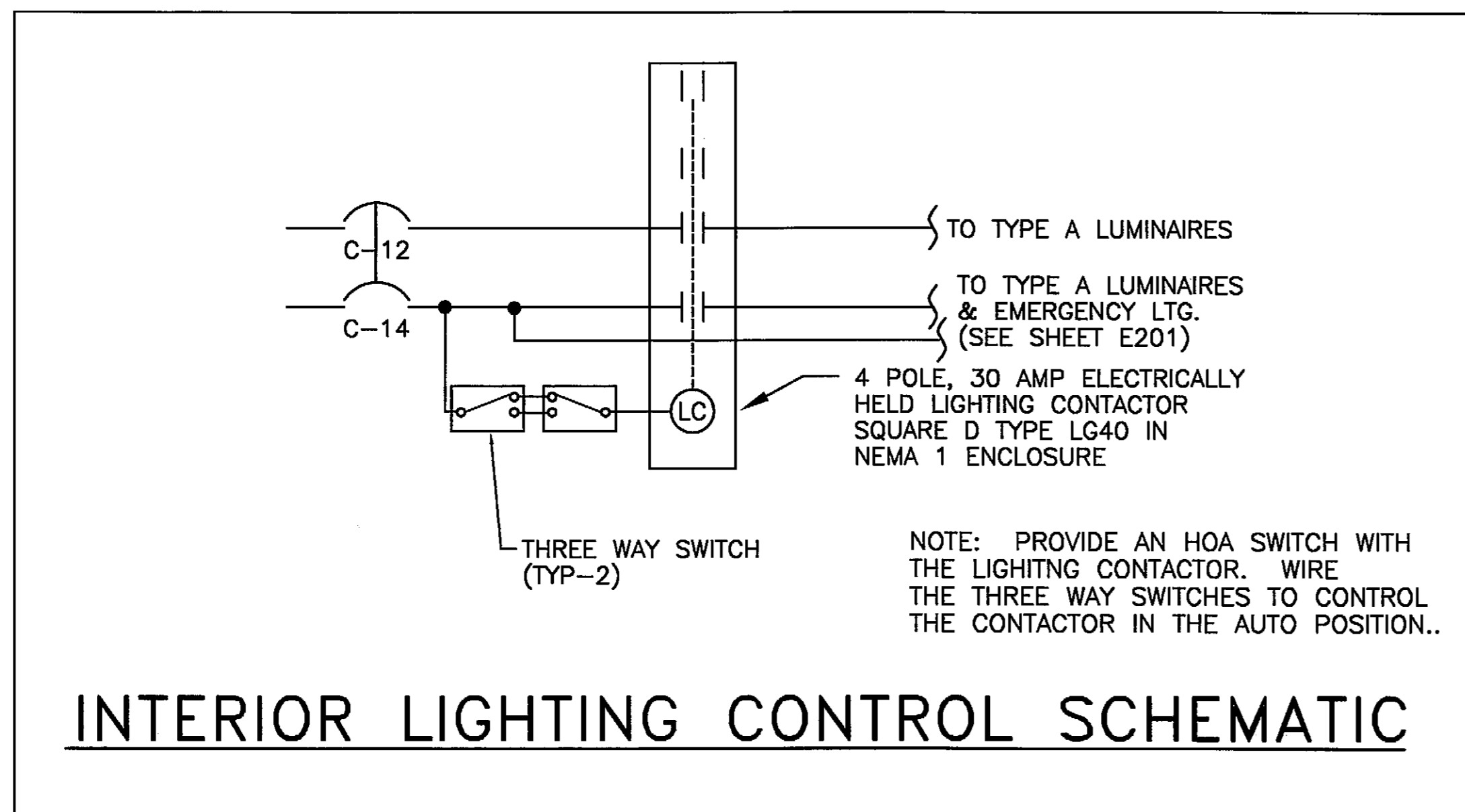
DESIGNED BY:	MM	PROJECT NO. 68386
DRAWN BY:	MM	AIP 3-02-0219-0903
CHECKED BY:	MM	DATE: OCTOBER 3, 2003
		SHEET E201 OF 34



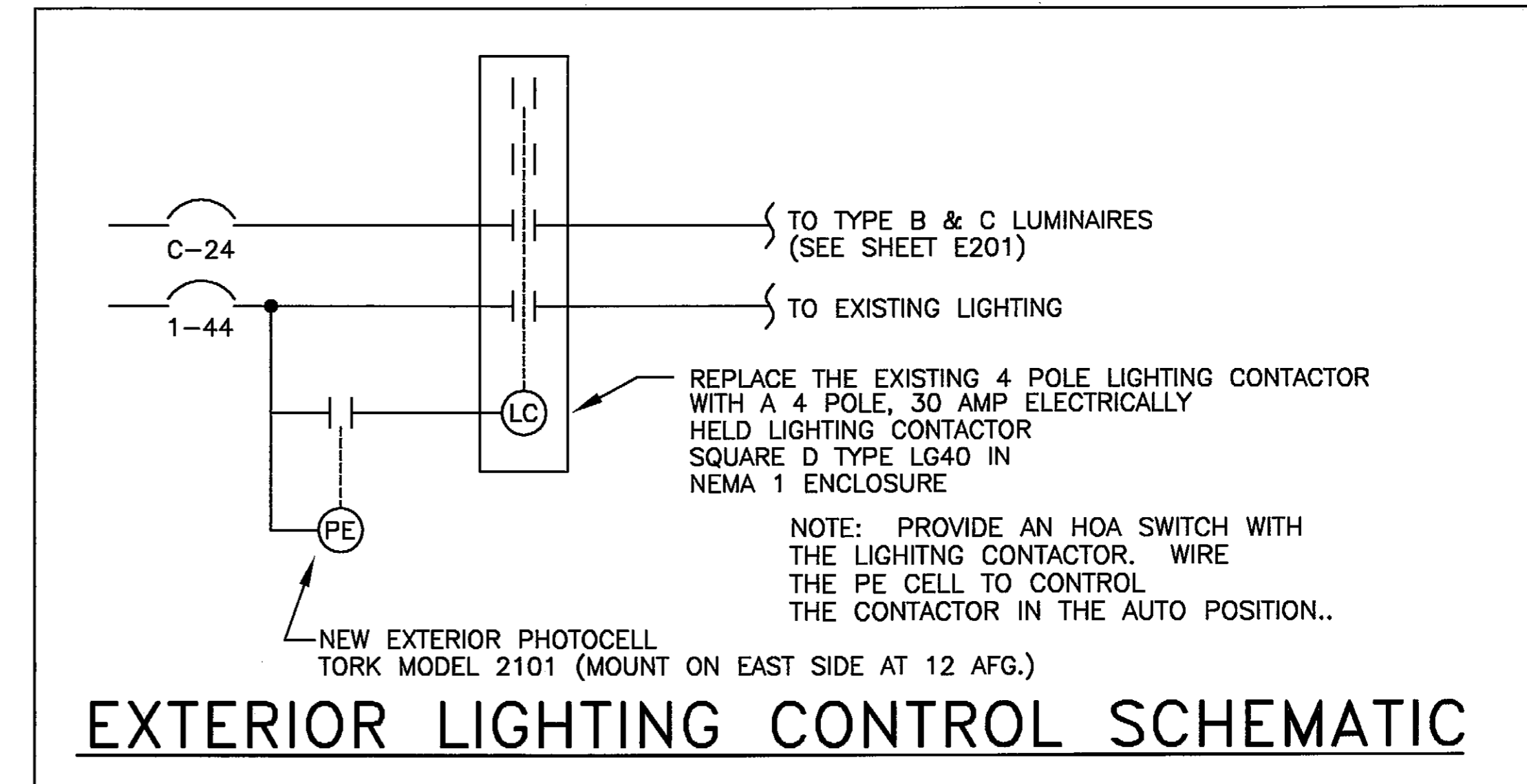
LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	ACRYLIC LOWBAY WITH REFRACTED BOTTOM LENS WITH PULSE START METAL HALIDE LAMP	LITHONIA TXR320MPA22CTBSCWA	320 W MH COATED	MOUNT WITH HOOK, CORD, & PLUG. PROVIDE SPARE LAMP FOR EACH LUMINAIRE. PROVIDE RECEPTACLE AT EACH LUMINAIRE.
B	DIE-CAST ALUMINIUM ARCHITECTURAL AREA LIGHT WITH FORWARD THROW OPTICS	LITHONIA KAD200MR4TBWBD04SCWA	200W MH PULSE ST.	PROVIDE WITH WALL MOUNT BRACKET AND PULSE START LAMP. PROVIDE A SPARE LAMP. MOUNT AT 15' AFG
C	WALLPACK WITH CUTOFF OPTICS. DIECAST ALUMINIUM HOUSING	LITHONIA TWAC42TRT120	(1) F42 TRT 3500K	PROVIDE WITH ELECTRONIC BALLAST. MOUNT AT 9' AFG.
F	SURFACE WRAP AROUND	LITHONIA LB232120GEB	(2) F32 T8 3500K	PROVIDE WITH ELECTRONIC BALLAST
	SELF CONTAINED EMERGENCY LIGHTING UNIT	LITHONIA	(2) HALOGEN	WALL MOUNT AT HEIGHTS SHOWN.
	WALLMOUNT EMERGENCY EXIT SIGN WITH GREEN DIFFUSE LED LETTERING	LITHONIA LES1G120ELN	LED GREEN	BACK MOUNT ABOVE DOOR



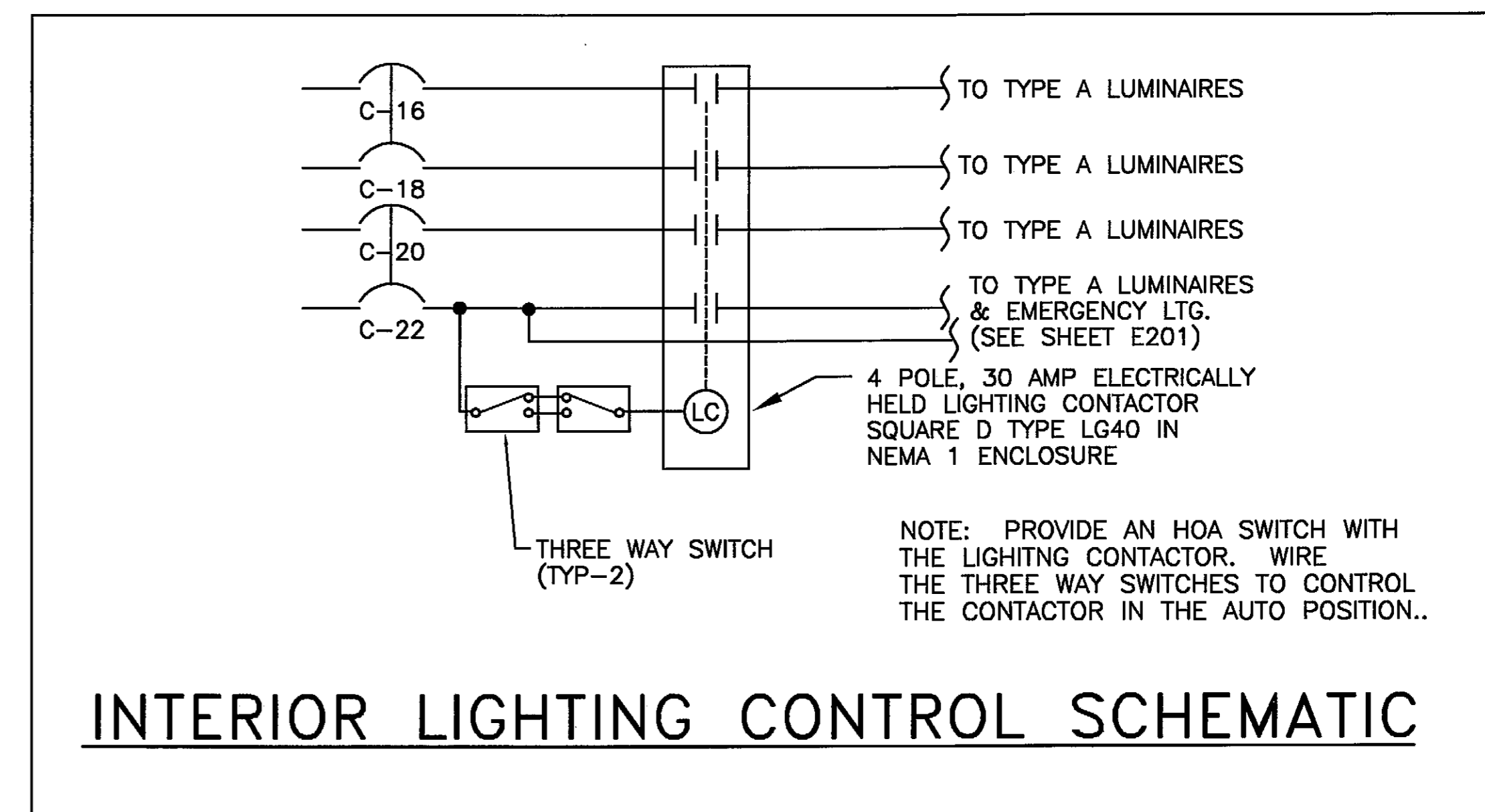
INTERIOR LIGHTING CONTROL SCHEMATIC



INTERIOR LIGHTING CONTROL SCHEMATIC



EXTERIOR LIGHTING CONTROL SCHEMATIC



INTERIOR LIGHTING CONTROL SCHEMATIC

PATH:	DATE:	DESCRIPTION OF CHANGE:

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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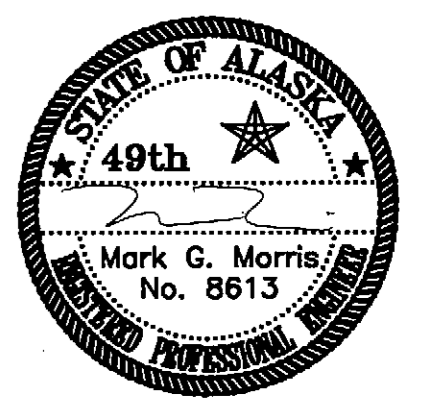
PETERSBURG ALASKA
PETERSBURG AIRPORT SAND & CHEMICAL
STORAGE BUILDING
FLOOR PLAN - LIGHTING

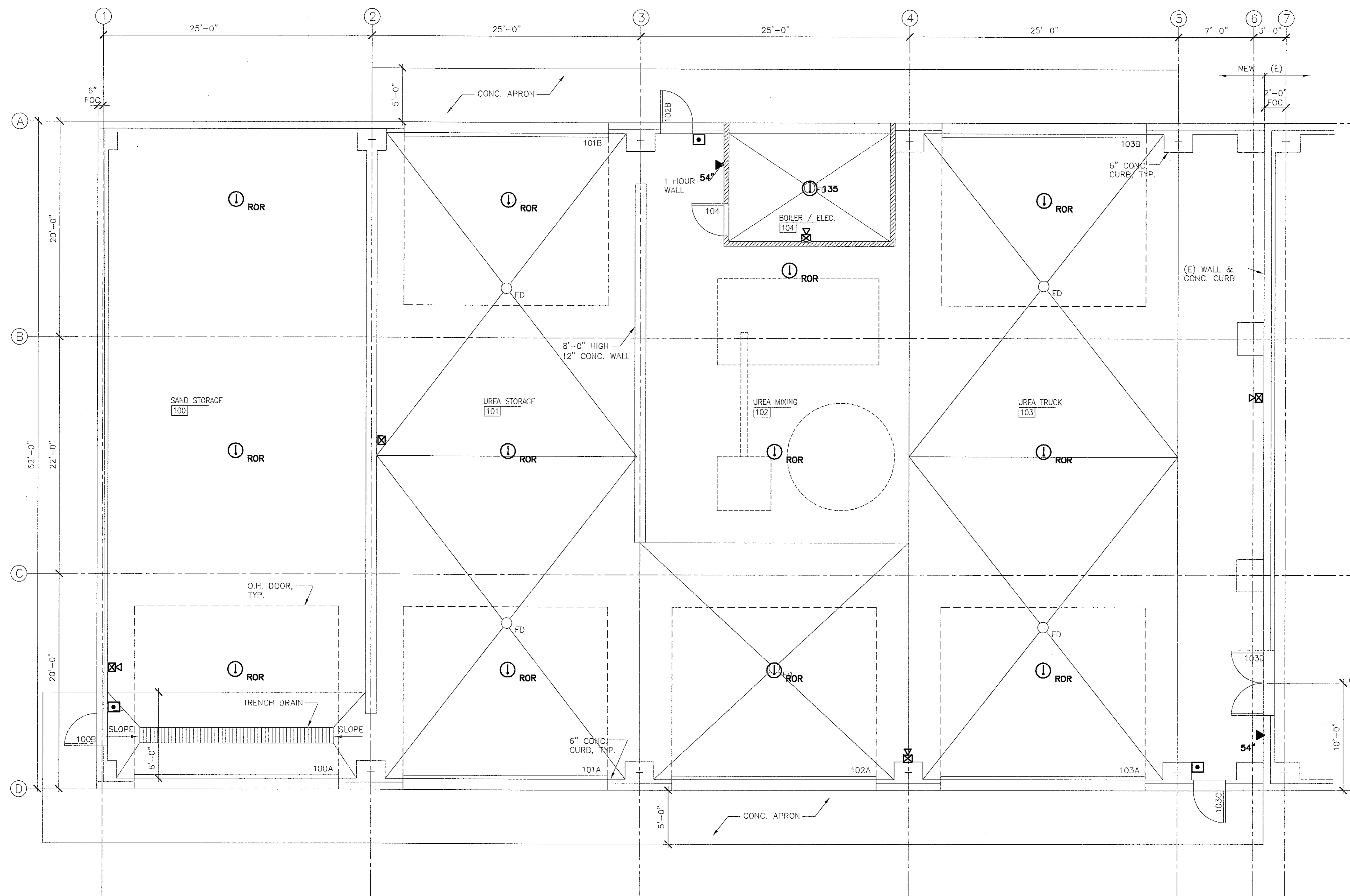
DESIGNED BY: MM	PROJECT NO. 68386 AIP 3-02-0219-0903
DRAWN BY: MM	DATE: OCTOBER 3, 2003
CHECKED BY: MM	SHEET E202 OF 34

PLANS DEVELOPED BY:
IHH Electrical

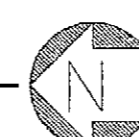
NOTE:
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PLANS - USE DIMENSIONS

ENGINEER'S SEAL





FLOOR PLAN - SIGNAL



RECORD OF REVISIONS		
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STATE OF ALASKA
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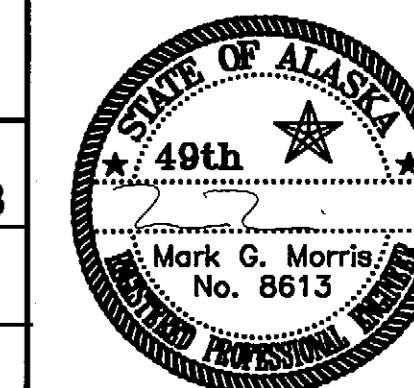
PETERSBURG ALASKA
PETERSBURG AIRPORT SAND & CHEMICAL
STORAGE BUILDING
FLOOR PLAN - SIGNAL

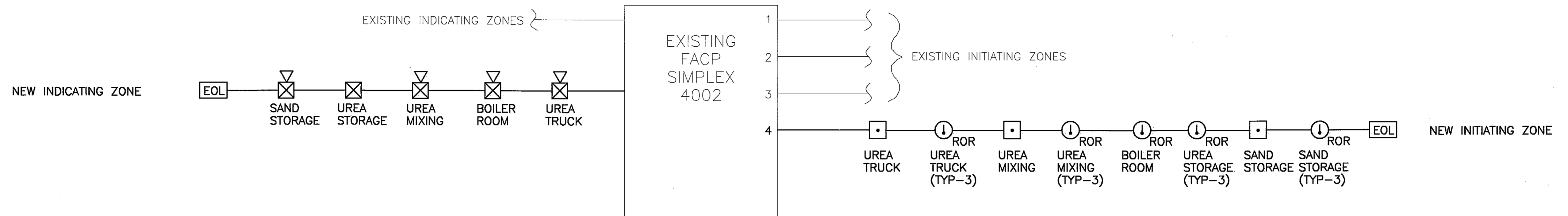
DESIGNED BY:	MM	PROJECT NO. 68386
DRAWN BY:	MM	AIP 3-02-0219-0903
CHECKED BY:	MM	DATE:
		OCTOBER 3, 2003
		SHEET E301 OF 34

PLANS DEVELOPED BY:
IHH Electrical

NOTE:
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PLANS - USE DIMENSIONS

ENGINEER'S SEAL

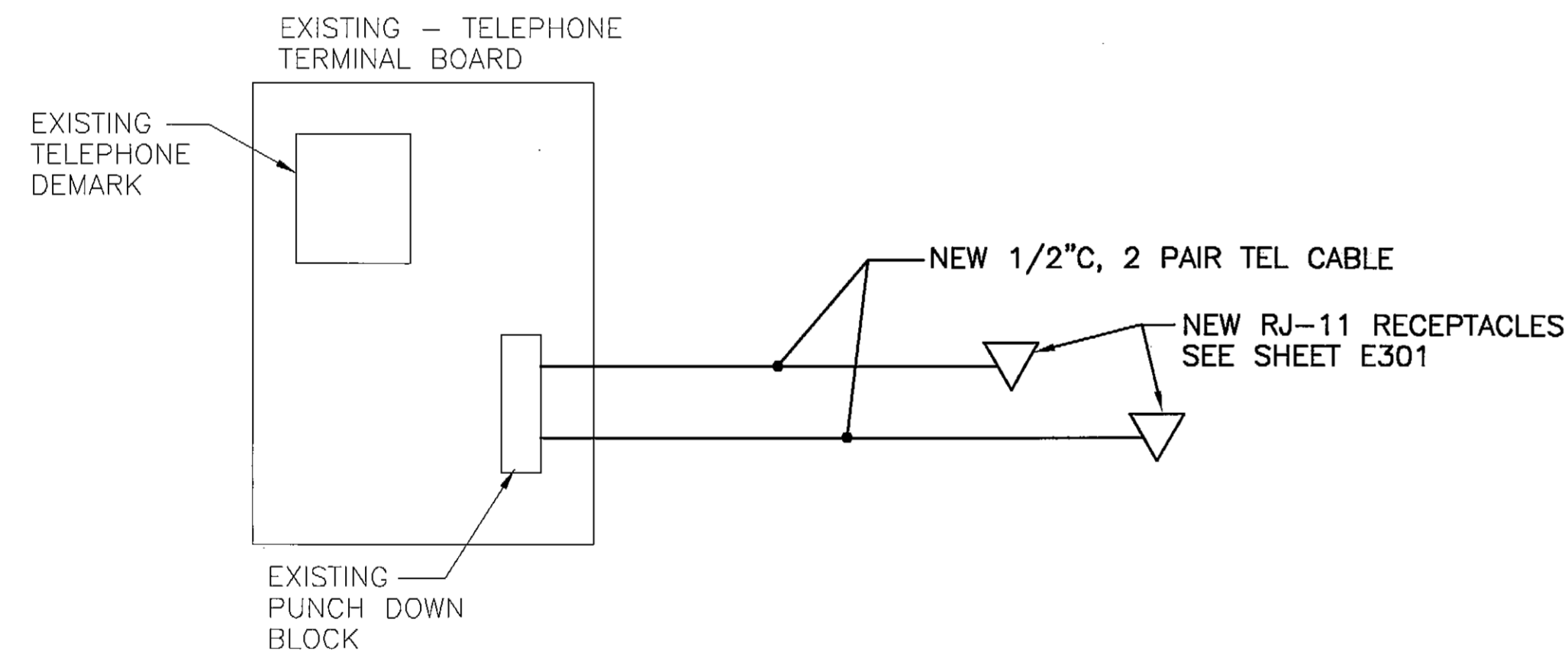




FIRE ALARM RISER DIAGRAM

NOTES:

1. PERFORM ALL WORK BY A MANUFACTURER'S CERTIFIED TECHNICIAN.
2. SYNCHRONIZE ALL STROBES ON NEW ZONE. PROVIDE NEW POWER SUPPLY.
3. PROVIDE RED JACKETED FIRE ALARM CABLE SIZED FOR VOLTAGE DROP. PROVIDE 14 AWG MIN.
4. ALL WIRING SHALL BE IN CONDUIT.



TELEPHONE RISER DIAGRAM

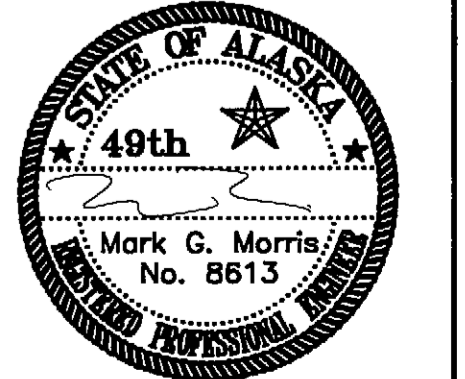
NOTES:

1. CONNECT THE NEW TELEPHONE RECEPTACLES TO THE EXISTING TELEPHONE SYSTEM THROUGH THE EXISTING PUNCH DOWN BLOCK.
2. ALL WIRING SHALL BE IN CONDUIT.
3. COORDINATE RECEPTACLE LOCATIONS WITH AIRPORT MANAGER.

PLANS DEVELOPED BY:
IHH Electrical

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL



PATH:	DATE:	DESCRIPTION OF CHANGE:
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PETERSBURG ALASKA
PETERSBURG AIRPORT SAND & CHEMICAL
STORAGE BUILDING
RISER DIAGRAMS

DESIGNED BY:	MM	PROJECT NO. 68386 AIP 3-02-0219-0903
DRAWN BY:	MM	DATE: OCTOBER 3, 2003
CHECKED BY:	MM	SHEET E302 OF 34

HEATING PLANT EQUIPMENT SCHEDULE

EQUIPMENT	LOCATION	DESCRIPTION	ELECTRICAL HP, VOLTS, PHASE	BASIS OF DESIGN (MFR & MODEL)	NOTES
OIL FIRED WATER HEATER, OFWH-1	BOILER 104	220 GALLON STORAGE, 1,286 GPH RECOVERY @ 90 DEG RISE	1/4 HP, 120, 1	BOOK MODEL 200E-1160 A.O. SMITH	HIGH VOLUME, HIGH RECOVERY UNIT WITH PORCELAIN ENAMEL GLASS LINING ON 12 GAGE STEEL WALLS. OIL FIRED OIL BURNER WITH FLAME RETENTION HEAD, 8.3 GPH. 12" DIAMETER FLUE OUTLET. SOLENOID OIL SAFETY VALVE ON INLET. SKID MOUNTED. THREE YEAR WARRANTY.
BOILER, B-1	BOILER 104	217 MBH NET IBR	-	WEIL McLAIN WGO-7	NATURAL DRAFT CAST-IRON SECTIONAL BOILER.
OIL BURNER, B-1	BOILER, B-1	2.0 GALLONS PER HOUR MAXIMUM DELIVERY	1/4 HP, 120, 1	BECKETT AFG	SOLENOID OIL SAFETY VALVE ON INLET.

EQUIPMENT SCHEDULE

EQUIPMENT	FUNCTION	DESIGN MANUFACTURER	CAPACITY	ELECTRICAL CHARACTERISTICS	FEATURES/CONTROLS/OPTIONS
CHIMNEY - BOILER AND WATER HEATER	HEATING	METALBESTOS, SS	8" & 12" DIAMETER	-	DOUBLE WALL, CHIMNEY RATED FOR NEGATIVE PRESSURE. STAINLESS STEEL INNER AND OUTER WALL CONSTRUCTION. CLEANOUT INSTALLED AT BOTTOM OF STACK WITH SUPPORT FLANGES AT PENETRATIONS. STAINLESS STEEL RAIN CAP ON TOP. DATA REQUIRED. TOP OF CHIMNEY APPROX. 24 FEET AFF. VERIFY HEIGHT.
WATER FEEDER	BOILER FEED	WATTS, USLP BELL & GOSSETT, B-38	-	-	3/4 INCH WITH SELF CLEANING STRAINER, ADJUSTABLE PRESSURE REDUCING VALVE SET AT 12 PSI. INSTALLED WITH PRESSURE GAGES EACH SIDE AND BYPASS AS SHOWN.
BACKFLOW PREVENTER, RBPB	BOILER FEED	WATTS, 909	3/4"	-	REDUCED PRESSURE DOUBLE CHECK ASSEMBLY WITH SHUT OFF VALVES EACH SIDE AND FUNNEL DRAIN UNDER VENT PIPED TO FLOOR DRAIN.
AUTOMATIC AIR VENT, AAV	HEATING SYSTEM	HONEYWELL, NO. EA79 HOFFMAN, 79	-	-	INSTALLED AT ALL HIGH POINTS IN HEATING SYSTEM WITH 3/4" SHUT OFF VALVE. PROVIDE FITTINGS FOR DRAIN CONNECTIONS.
LOUVERS	COMBUSTION, INTAKE	RUSKIN, ELF 6375 DX	SEE PLANS FOR SIZES	-	ALUMINUM ALLOY FRAME AND BLADES. MINIMUM WATER PENETRATION DESIGN WITH DRAINABLE BLADES. NOMINAL 55% FREE AREA. 6 INCHES DEEP WITH CHANNEL FRAME.
EXPANSION CHAMBER ET-1 & ET-2	HEATING SYSTEM	AMTROL, AX-60	11 GALLON ACCEPTANCE	-	HORIZONTAL. ASME RATED.
AIR SEPARATOR, AS-1 & AS-2	AIR ELIMINATION	AMTROL	2"	-	INLINE AIR PURGING TYPE WITH AIR VENT.
UNIT HEATER UH-1 & UH-2	BUILDING HEATING	VULCAN, VV144	100,000 NOMINAL BTU/HR OUTPUT AT 20°F TEMP DROP.	1/4 HP, 120V, SINGLE PHASE	VERTICAL THROW TYPE WITH ANEMOSTAT HU-3 CONE DIFFUSER.

UREA TANK SCHEDULE

EQUIPMENT	LOCATION	CAPACITY (GAL)	BASIS OF DESIGN (MANUFACTURER, MODEL)	NOTES
UREA MIXING TANK, T-1	T-1	4000	GREER	HORIZONTAL RECTANGULAR TANK WITH WORK DECK AND RAILING ON TOP. ALL STAINLESS STEEL CONSTRUCTION. BOLTED MANHOLE FOR ACCESS.
UREA STORAGE TANK, T-2	T-2	12,000	GREER	VERTICAL ROUND TANK, APPROX. 20' TALL. ALL STAINLESS STEEL CONSTRUCTION. BOLTED MANHOLE FOR ACCESS.

UREA SYSTEM EQUIPMENT SCHEDULE

EQUIPMENT	LOCATION	DESCRIPTION	ELECTRICAL CHARACTERISTICS HP, VOLTS, PHASE	BASIS OF DESIGN (MANUFACTURER, MODEL)	FEATURES
LEVEL GAGE, LG-1	T-1	SIZE TO MATCH TANK, COVER MINIMUM 80% OF HEIGHT.	-	INFERNO MODEL ATS	USE MULTIPLE GAGES AS REQUIRED.
LEVEL GAGE, LG-2	T-2	SIZE TO MATCH TANK	-	INFERNO MODEL ATS	USE MULTIPLE GAGES AS REQUIRED.
TANK PROPELLER MIXER, TM-1	T-1	425 RPM, 12" TURBINE	3, 208, 3	GROVAC, MODEL 700-3000-GD-ED	GEAR DRIVE FLANGE MOUNTED, SS SHAFT, TURBINE AND HOUSING.
BULK BAG UNLOADER, BU-1	T-1	TO MATCH UREA BULK BAGS	-	AUTOMATED FLEXIBLE CONVEYOR	-
HOPPER, HO-1	BU-1	TO MATCH UREA BULK BAGS	-	AUTOMATED FLEXIBLE CONVEYOR	PROVIDE GRATE WITH AGITATOR, SEE AG-1.
UREA CONVEYOR	CS-1	COMPATIBLE WITH BULK UNLOADER SYSTEM	1.5, 208, 3	AUTOMATED FLEXIBLE CONVEYOR	6" DIAMETER SIZE, CAPABLE OF 500 FT ³ /HR DELIVERY.
TEMPERATURE REGULATOR, TV-1	T-1	70 GPM, 22 PSI DROP, 1"	-	POWERS MODEL 11WM THERMAL SYSTEM 700-C15A102	-
BACKFLOW PREVENTER	T-1	70 GPM, 2" SIZE	-	WATTS SERIES 909 BB	-
BAG MASSAGER, BM-1	BU-1	80 PSI, 2 CFM - AIR	0, 120, 1	AUTOMATED FLEXIBLE CONVEYOR	-
AGITATOR, AG-1	HOPPER	COMPATIBLE WITH UREA PELLETS	1.5, 208, 3	AUTOMATED FLEXIBLE CONVEYOR	-
TANK HEATER, TH-1	T-1	NOMINAL 23 GPM, 155,000 BTUH	-	ARMSTRONG IMMERSION TYPE FHS	3 REQUIRED. USED TO HEAT 5000 GALLONS OF 30% UREA FROM 47°F TO 110°F IN 8 HOURS USING 70 GPM OF WATER, 180°F ENTERING WATER TEMPERATURE AND 20°F DROP. MAXIMUM PRESSURE DROP-12 FEET. STAINLESS STEEL CONSTRUCTION.

SYMBOLS

	CW	COLD WATER		AV	AUTOMATIC VALVE
	HW	HOT WATER		P	PUMP
	HWR	HOT WATER RECIRCULATING			BALL VALVE
	V	VENT			FLOWSETTER WITH NUMBER DESIGNATION
	W	WASTE, SOIL DRAINAGE			CLEANOUT
	HS	HEATING SUCTION			PRESSURE RELIEF VALVE
	HR	HEATING RETURN			CONSTRUCTION NOTE
	OS	OIL SUCTION			IMMERSION THERMOSTAT
	OR	OIL RETURN			PRESSURE GAGE
	US	UREA SUCTION			THERMOMETER
	UR	UREA RETURN			CONTROL SWITCH
	CO	CLEANOUT			DIAMETER
	DV	DRAIN VALVE			ACCESS DOOR
		UNION			EXISTING
		PITCHED DOWN			BELOW FLOOR
		REDUCER			TO BE REMOVED
		CAPPED OR PLUGGED			REMOVAL OR CONNECTION POINT
		GATE OR BALL VALVE			
		CHECK VALVE			
		GLOBE VALVE OR ISOLATING BALL VALVE			
	WH	WALL HYDRANT			
		DIRECTION OF FLOW			

SHEET NOTE

- SEE SPECIFICATIONS FOR ADDITIONAL DATA AND ADDITIONAL EQUIPMENT. DATA REQUIRED FOR APPROVAL OF ALL EQUIPMENT AND APPURTENANCES LISTED IN EACH SCHEDULE.

FLOWSETTER SCHEDULE

NO.	UNIT SERVED	LOCATION	DESIGN GPM	SETTER SIZE INCHES
1	UH-1	NORTH HALF	10.0	1-1/4
2	UH-2	SOUTH HALF	10.0	1-1/4
3	TH	TANK T-1	23.0	2
4	TH	TANK T-1	23.0	2
5	TH	TANK T-1	23.0	2
6	BOILER B-1	MECHANICAL ROOM	8.0	1"

MECH. SHEET INDEX

SHEET #	SHEET NAME
M101	SCHEDULES, SYMBOLS
M200	FOUNDATION PLAN
M201	FLOOR PLAN
M202	FLOOR PLAN-EXISTING BUILDING, MECHANICAL ROOM PART PLAN
M301	HEATING PIPING DIAGRAM
M302	UREA MIXING AND STORAGE DIAGRAM
M401	DETAILS & DIAGRAMS
M402	DETAILS & DIAGRAMS

FAN SCHEDULE

EQUIPMENT	FUNCTION	FAN CFM	STATIC PRESSURE IN. WG.	ELECTRICAL CHARACTERISTICS	FEATURES
CF	BUILDING VENT	27,500	-	160W, 120V, SINGLE PHASE	CONTROLLED BY SWITCH ON WALL.
EF-1	BUILDING EXHAUST	7,900	0.25	3/4HP, 208V, THREE PHASE	CONTROLLED BY SWITCH IN MECHANICAL ROOM. WALL HOUSING, BACKDRAFT DAMPER, WEATHER HOOD DISCHARGE AND SCREENED INTAKE. HIGH PERFORMANCE EPOXY COATING.

PUMP SCHEDULE

EQUIPMENT	FUNCTION	GPM	HEAD, FT	DESIGN MANUFACTURER AND MODEL	MINIMUM HORSEPOWER ELECTRICAL CHARACTERISTICS	FEATURES
P-1	BOILER BYPASS	8	6	TACO 00	1/8 HP, 115V, SINGLE PHASE.	UNITIZED PUMP. PROVIDE COMPLETE SPARE PUMP.
P-2A & P-2B	PRIMARY HEATING	25	25	TACO 1900	1/2 HP, 115V, SINGLE PHASE.	PIPE MOUNTED CLOSE COUPLED PUMP, TRIMMED IMPELLER.
P-3A & P-3B	UREA CIRCULATION	350	30	GOULD TRASH HOG SERIES 3DTH23EL 7.75" IMPELLER	7.5 HP, 208V, THREE PHASE.	INDUSTRIAL PUMP BASE MOUNTED SELF PRIMING GRINDER STYLE. STAINLESS STEEL CONSTRUCTION. COMPATIBLE WITH A WIDE VARIETY OF UREA & WATER MIXTURE RATIOS.
P-4	UREA HEATING	70	30	TACO 1900	1 HP 208V THREE PHASE	STOCK PIPE MOUNTED CLOSE COUPLED PUMP. BRONZE CONSTRUCTION, TRIMMED IMPELLER. PROVIDE COMPLETE SPARE PUMP.

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PETERSBURG

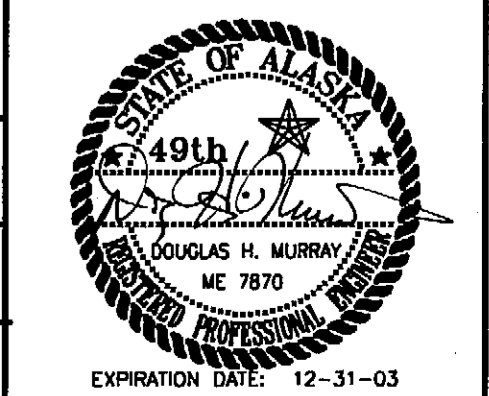
ALASKA
PETERSBURG AIRPORT SAND
AND CHEMICAL STORAGE BUILDING
SCHEDULES AND SYMBOLS

ALASKA

DESIGNED BY:	DM	PROJECT NO. 68386
DRAWN BY:	RB	AIP 3-02-0219-0903
CHECKED BY:	DM	DATE: OCTOBER 3, 2003
		SHEET M101 OF 34

PLANS DEVELOPED BY:
MURRAY & ASSOCIATES, P. C.

ENGINEER'S SEAL

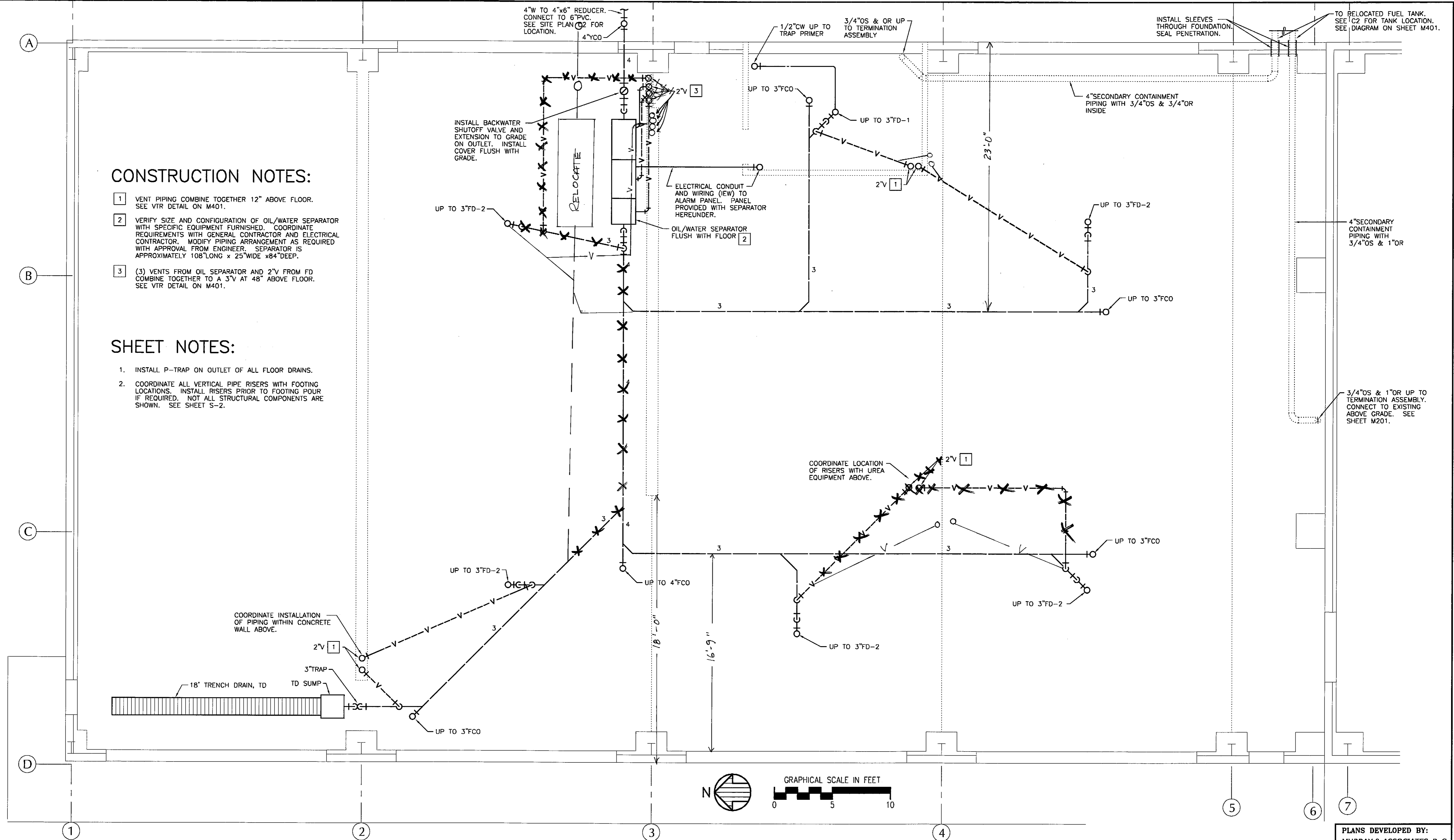


CONSTRUCTION NOTES:

- 1 VENT PIPING COMBINE TOGETHER 12" ABOVE FLOOR. SEE VTR DETAIL ON M401.
- 2 VERIFY SIZE AND CONFIGURATION OF OIL/WATER SEPARATOR WITH SPECIFIC EQUIPMENT FURNISHED. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR. MODIFY PIPING ARRANGEMENT AS REQUIRED WITH APPROVAL FROM ENGINEER. SEPARATOR IS APPROXIMATELY 108"LONG x 25"WIDE x84"DEEP.
- 3 (3) VENTS FROM OIL SEPARATOR AND 2"V FROM FD COMBINE TOGETHER TO A 3"V AT 48" ABOVE FLOOR. SEE VTR DETAIL ON M401.

SHEET NOTES:

- 1. INSTALL P-TRAP ON OUTLET OF ALL FLOOR DRAINS.
- 2. COORDINATE ALL VERTICAL PIPE RISERS WITH FOOTING LOCATIONS. INSTALL RISERS PRIOR TO FOOTING POUR IF REQUIRED. NOT ALL STRUCTURAL COMPONENTS ARE SHOWN. SEE SHEET S-2.



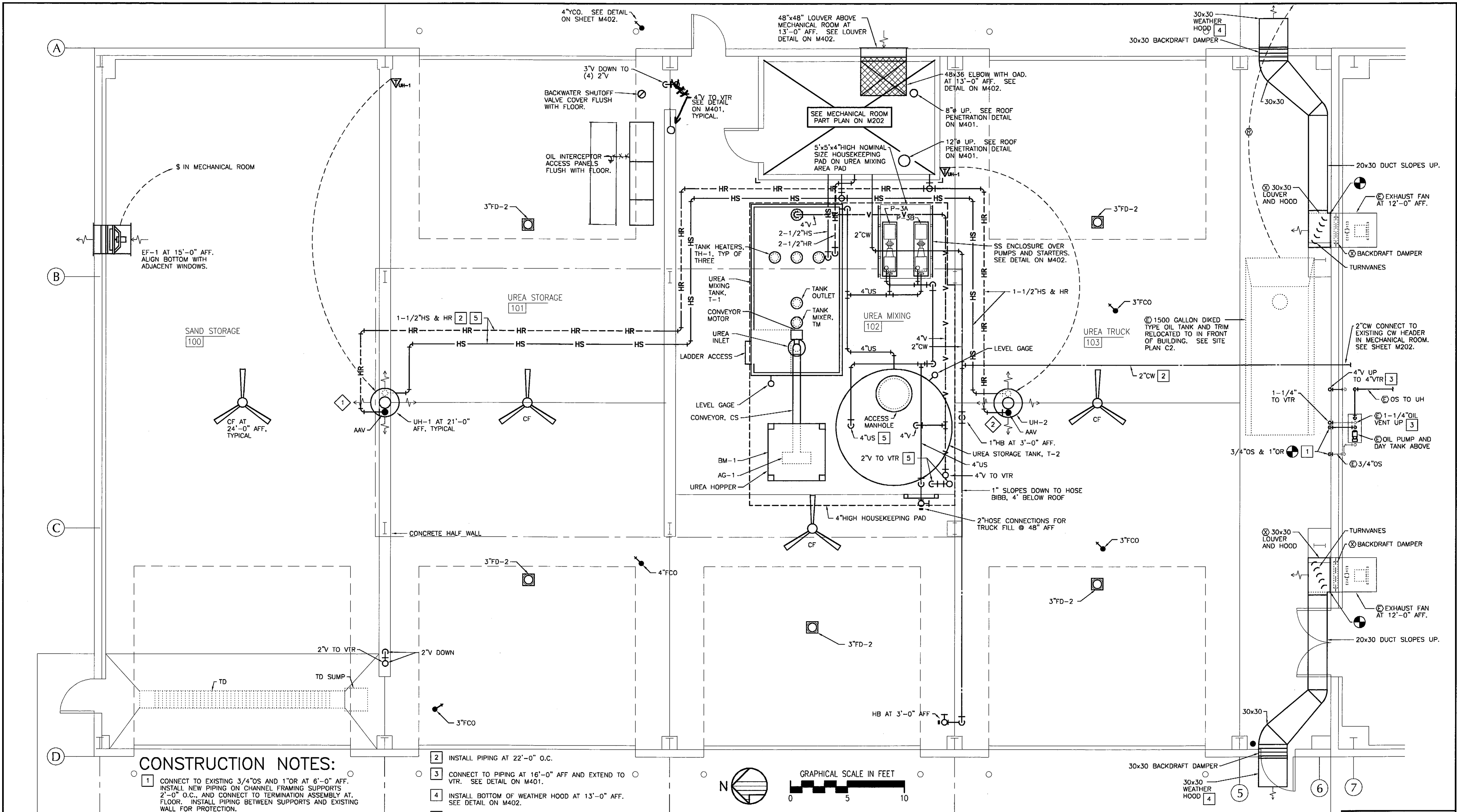
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 AND PUBLIC FACILITIES

PETERSBURG ALASKA
 PETERSBURG AIRPORT SAND
 AND CHEMICAL STORAGE BUILDING
 FOUNDATION PLAN

DESIGNED BY:	DM	PROJECT NO. 68386
DRAWN BY:	RB	AIP 3-02-0219-0903
CHECKED BY:	DM	DATE: OCTOBER 3, 2003
		SHEET M200 OF 34

PLANS DEVELOPED BY:
 MURRAY & ASSOCIATES, P. C.
ENGINEER'S SEAL



CONSTRUCTION NOTES:

- 1. CONNECT TO EXISTING 3/4" OS AND 1" OR AT 6'-0" AFF. INSTALL NEW PIPING ON CHANNEL FRAMING SUPPORTS 2'-0" O.C., AND CONNECT TO TERMINATION ASSEMBLY AT FLOOR. INSTALL PIPING BETWEEN SUPPORTS AND EXISTING WALL FOR PROTECTION.

- 2. INSTALL PIPING AT 22'-0" O.C.
- 3. CONNECT TO PIPING AT 16'-0" AFF AND EXTEND TO VTR. SEE DETAIL ON M401.
- 4. INSTALL BOTTOM OF WEATHER HOOD AT 13'-0" AFF. SEE DETAIL ON M402.
- 5. ROUTE PIPING AROUND OVERHEAD CRANE SUPPORTS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.

SHEET NOTES:

- 1. ALL PIPING IS NOT SHOWN ON PLANS. SEE DIAGRAMS ON SHEETS M301 AND M302 FOR PIPE CONFIGURATION, SIZES, AND APPURTENANCES.

RECORD OF REVISIONS		
DATE	BY	DESCRIPTION OF CHANGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PETERSBURG
PETERSBURG AIRPORT SAND
AND CHEMICAL STORAGE BUILDING
FLOOR PLAN

ALASKA
DESIGNED BY: DM
DRAWN BY: RB
CHECKED BY: DM
PROJECT NO. 68386
AIP 3-02-0219-0903
DATE: OCTOBER 3, 2003
SHEET M201 OF 34

PLANS DEVELOPED BY:
MURRAY & ASSOCIATES, P. C.
ENGINEER'S SEAL

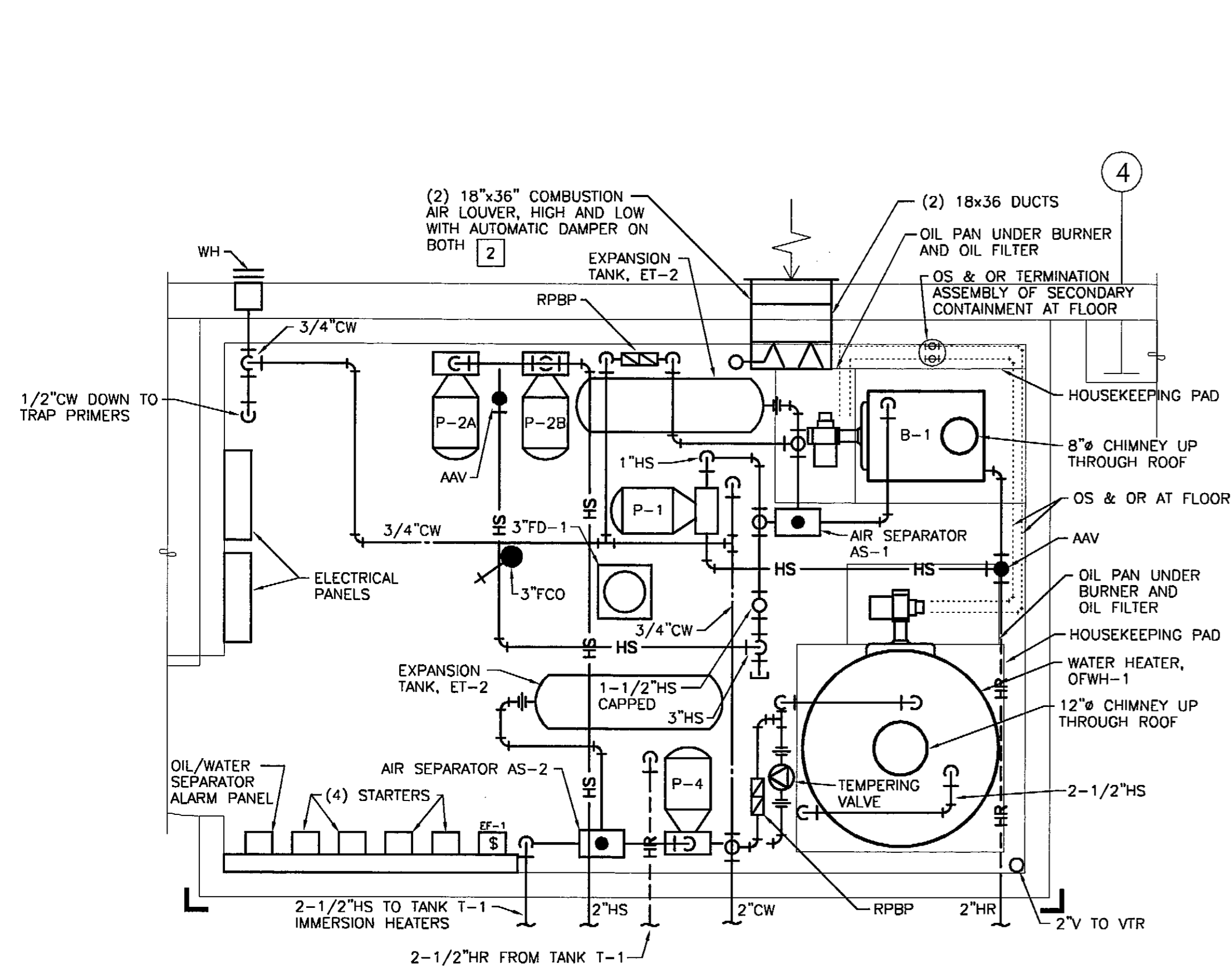
CONSTRUCTION NOTES:

- 1 HIGH LEVEL PIPING IS GENERALLY SHOWN ON THE PLAN. SEE DIAGRAM ON M301 FOR COMPLETE PIPING CONFIGURATION. EQUIPMENT LOCATION AND PIPE ROUTING SHOWN IS SCHEMATIC. ACTUAL LOCATIONS WILL NEED TO BE FIELD VERIFIED. ALL PIPING SHOWN ON PLAN IS TO BE LOCATED MINIMUM 6'-6" AFF FOR ACCESSIBILITY.
- 2 INSTALL 18"x36" INCH LOUVERS 12 INCHES FROM FLOOR AND 12 INCHES FROM CEILING OF MECHANICAL ROOM. INSTALL 18"x30" AUTOMATIC DAMPER ON UPPER PART OF LOWER LOUVER AND LOWER PART OF UPPER LOUVER. AUTOMATIC DAMPERS TO OPERATE WHENEVER WATER HEATER BURNER OPERATES. DAMPERS ARE TO BE CLOSED WHEN BURNER IS NOT OPERATING. OPEN PART OF LOUVERS IS TO SERVE COMBUSTION OF BOILER BURNER.

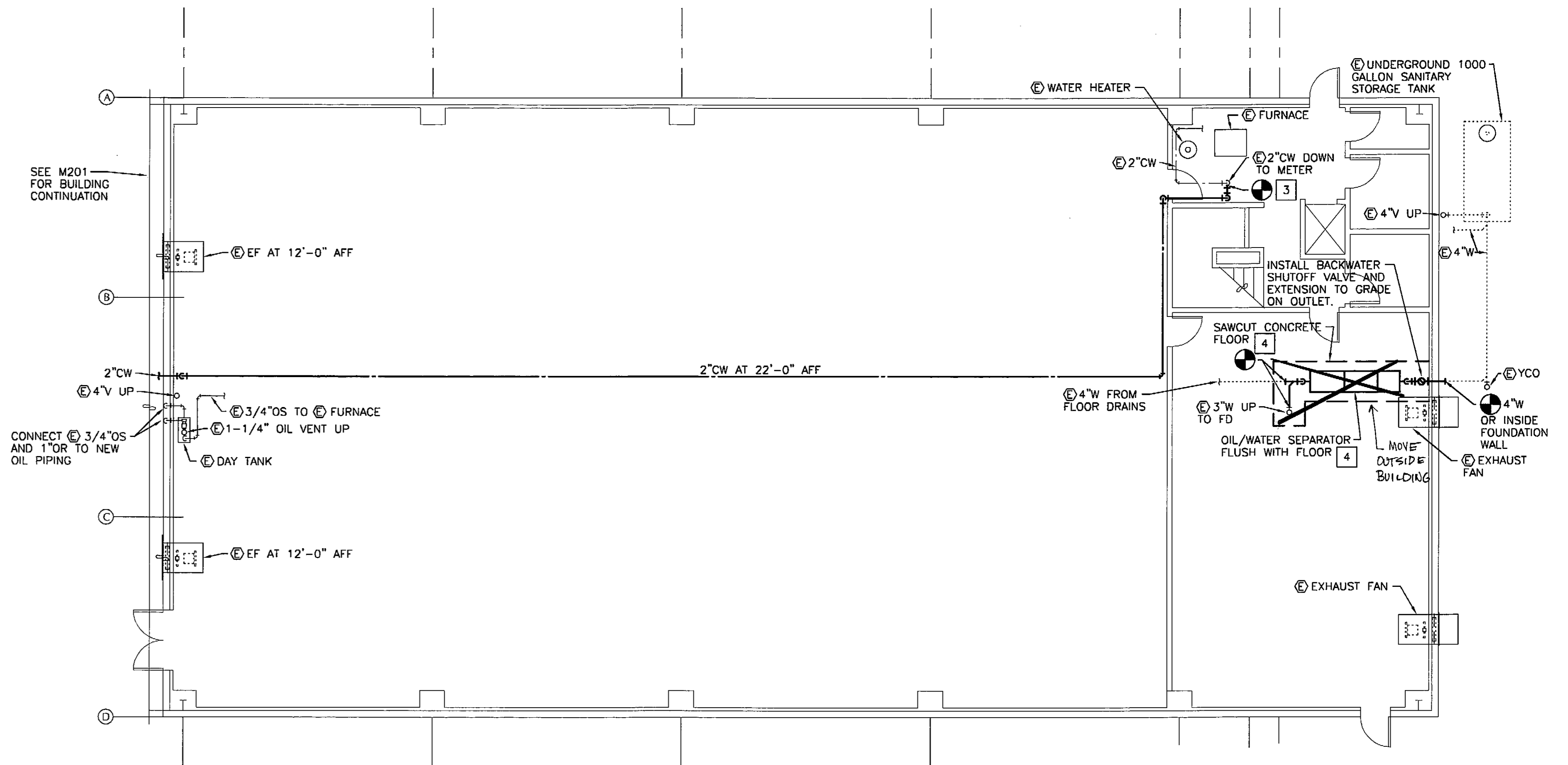
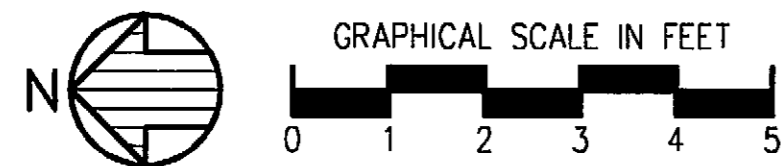
- 3 2" CW CONNECT TO 2" CW AT 4 FEET AFF. INSTALL 2" TAGGED ISOLATING VALVE IN HORIZONTAL PIPING AT CONNECTION POINT.
- 4 SAWCUT CONCRETE FLOOR FOR REPLACEMENT OF OIL/WATER SEPARATOR. REMOVE EXISTING OIL SEPARATOR PIPING AND CONNECTION PIPING. INSTALL OIL/WATER SEPARATOR FLUSH WITH FLOOR. MODIFY 3" W PIPING FROM EXISTING ADJACENT FLOOR DRAIN WITH TRAP AND CONNECT TO MAIN AS REQUIRED FOR SEPARATOR INSTALLATION. CONNECT TO EXISTING 4" W PIPING. INSTALL BACKWATER SHUTOFF VALVE ON OUTLET WITH EXTENSION TO FLUSH WITH FLOOR. COORDINATE WITH ELECTRICAL FOR ALARM REQUIREMENTS. PATCH CONCRETE SMOOTH WITH EXISTING SURFACE AND MATCH EXISTING CONDITIONS.

SHEET NOTES:

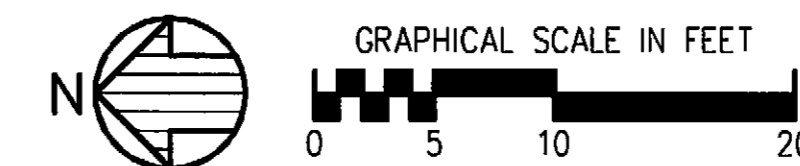
- 1. EXISTING PIPING AND EQUIPMENT ARE GENERALLY NOT SHOWN ON EXISTING BUILDING PLAN. COORDINATE ON-SITE EXACT LOCATION OF CW PIPING.



MECHANICAL ROOM PART PLAN 1



FLOOR PLAN - EXISTING BUILDING



DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

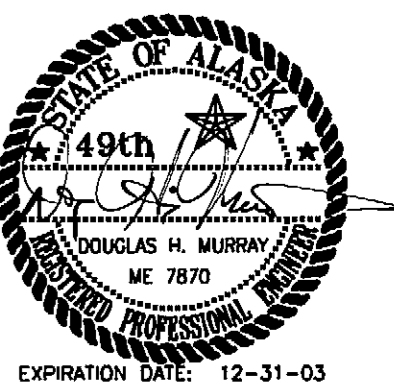
PETERSBURG

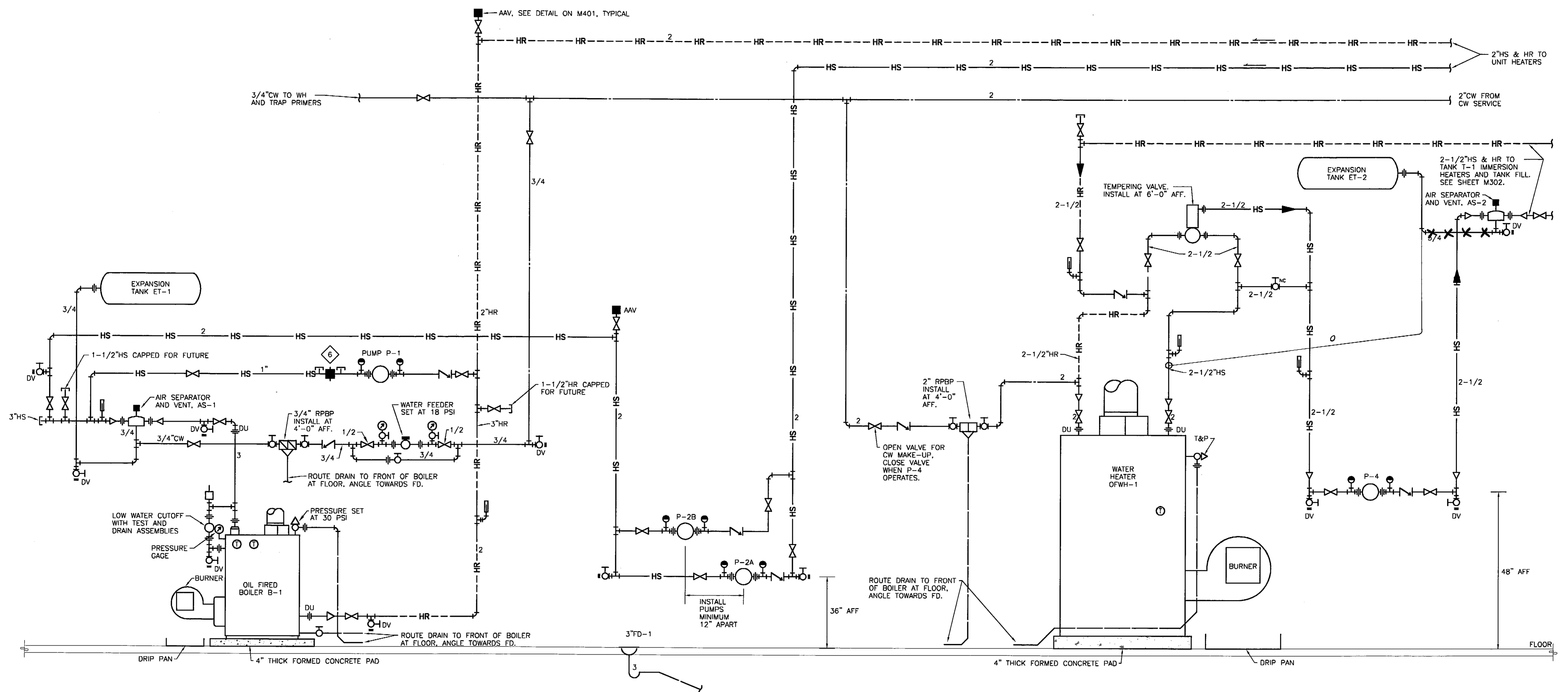
PETERSBURG AIRPORT SAND
AND CHEMICAL STORAGE BUILDING
FLOOR PLAN - EXISTING BUILDING
MECHANICAL ROOM PART PLAN

ALASKA

DESIGNED BY:	DM	PROJECT NO. 68386
DRAWN BY:	RB	AIP 3-02-0219-0903
CHECKED BY:	DM	DATE: OCTOBER 3, 2003
		SHEET M202 OF 34

PLANS DEVELOPED BY:
MURRAY & ASSOCIATES, P. C.
ENGINEER'S SEAL





HEATING PIPING DIAGRAM
NO SCALE

RECORD OF REVISIONS		
PATH:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PETERSBURG ALASKA
PETERSBURG AIRPORT SAND
AND CHEMICAL STORAGE BUILDING
HEATING PIPING DIAGRAM

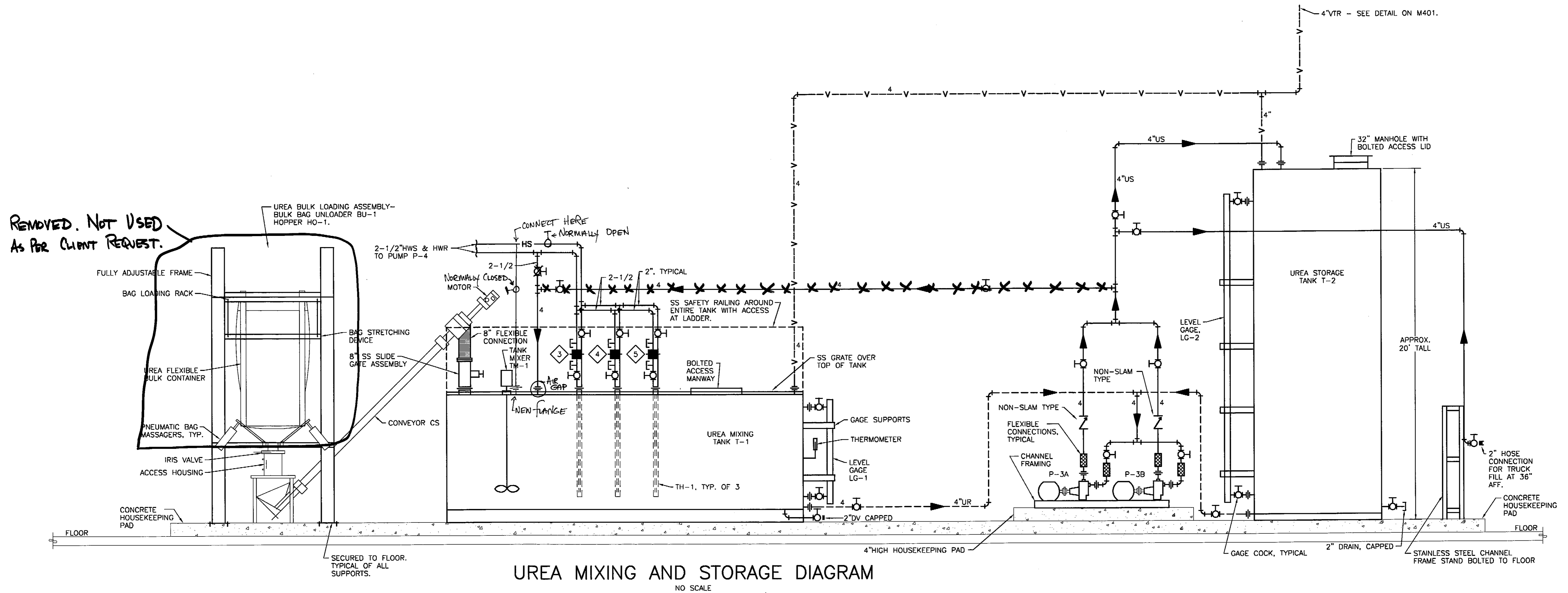
DESIGNED BY:	DM	PROJECT NO. 68386
DRAWN BY:	RB	AIP 3-02-0219-0903
CHECKED BY:	DM	DATE: OCTOBER 3, 2003
		SHEET M301 OF 34

PLANS DEVELOPED BY:
MURRAY & ASSOCIATES, P. C.

ENGINEER'S SEAL

SHEET NOTES:

1. ALL PIPING, VALVES, AND APPURTENANCES TRANSPORTING OR IN CONTACT WITH UREA/WATER SOLUTION SHALL BE OF STAINLESS STEEL CONSTRUCTION.



UREA MIXING AND STORAGE DIAGRAM
NO SCALE

RECORD OF REVISIONS		
DATE:	BY:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PETERSBURG

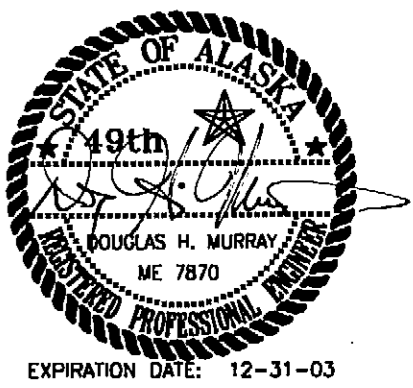
PETERSBURG AIRPORT SAND
AND CHEMICAL STORAGE BUILDING
UREA MIXING AND STORAGE DIAGRAM

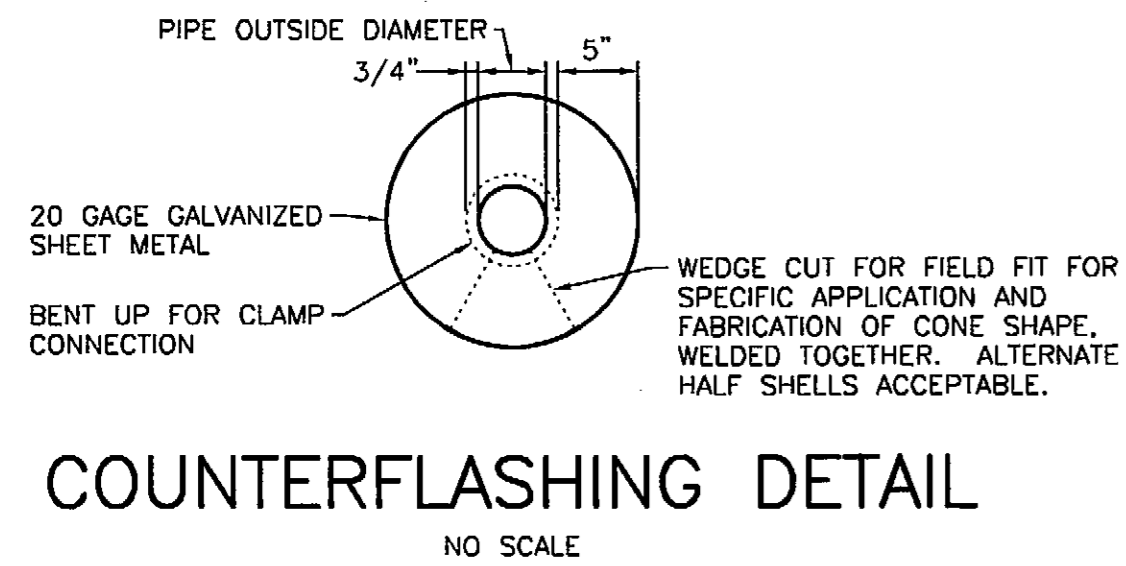
ALASKA

DESIGNED BY: DM
DRAWN BY: RB
CHECKED BY: DM

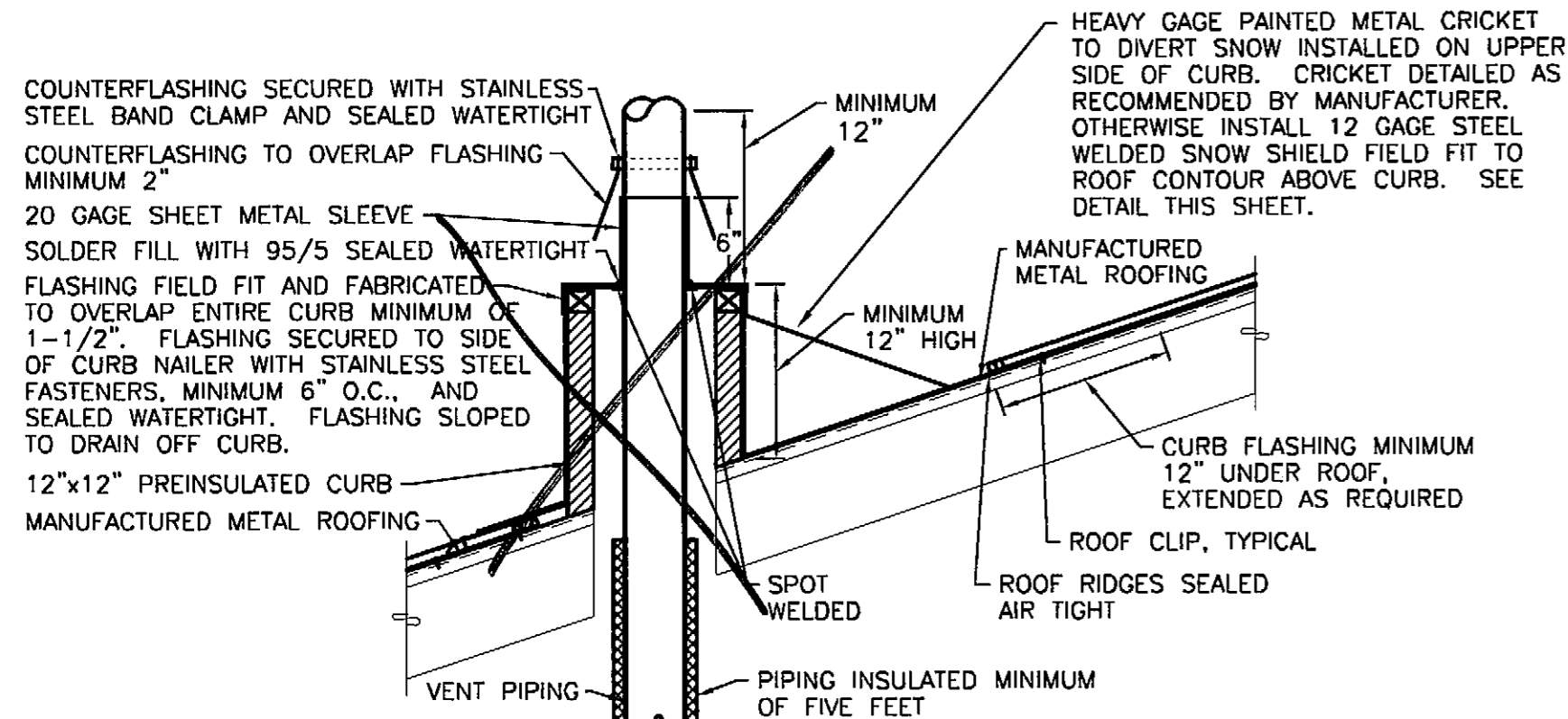
PROJECT NO. 68386
AIP 3-02-0219-0903
DATE: OCTOBER 3, 2003
SHEET M302 OF 34

PLANS DEVELOPED BY:
MURRAY & ASSOCIATES, P. C.
ENGINEER'S SEAL

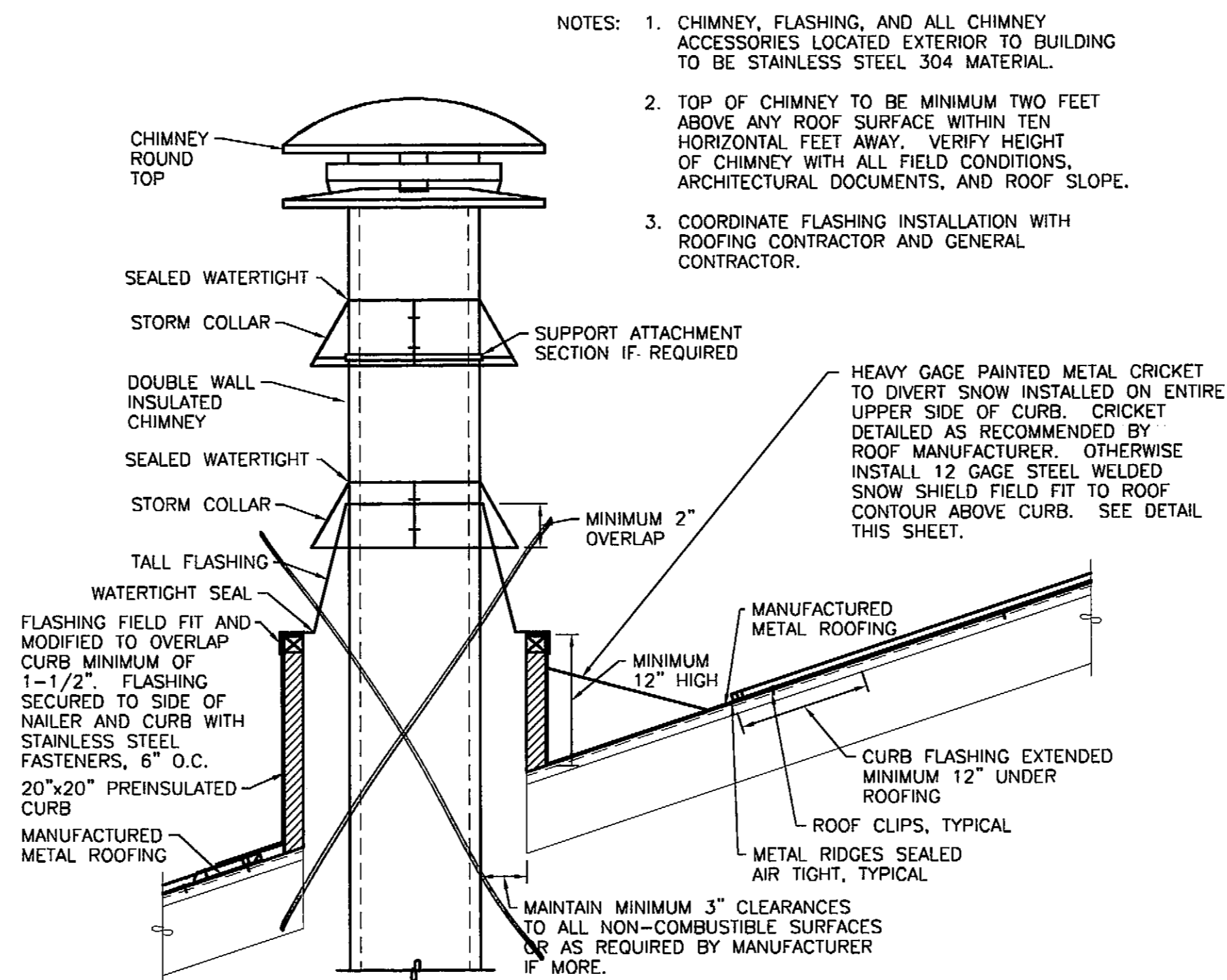




NOTE: ALL EXTERIOR METAL PARTS TO BE 20 GAGE GALVANIZED SHEET METAL AND PAINTED TWO COATS RUST PREVENTIVE PAINT TO MATCH ROOF COLOR.



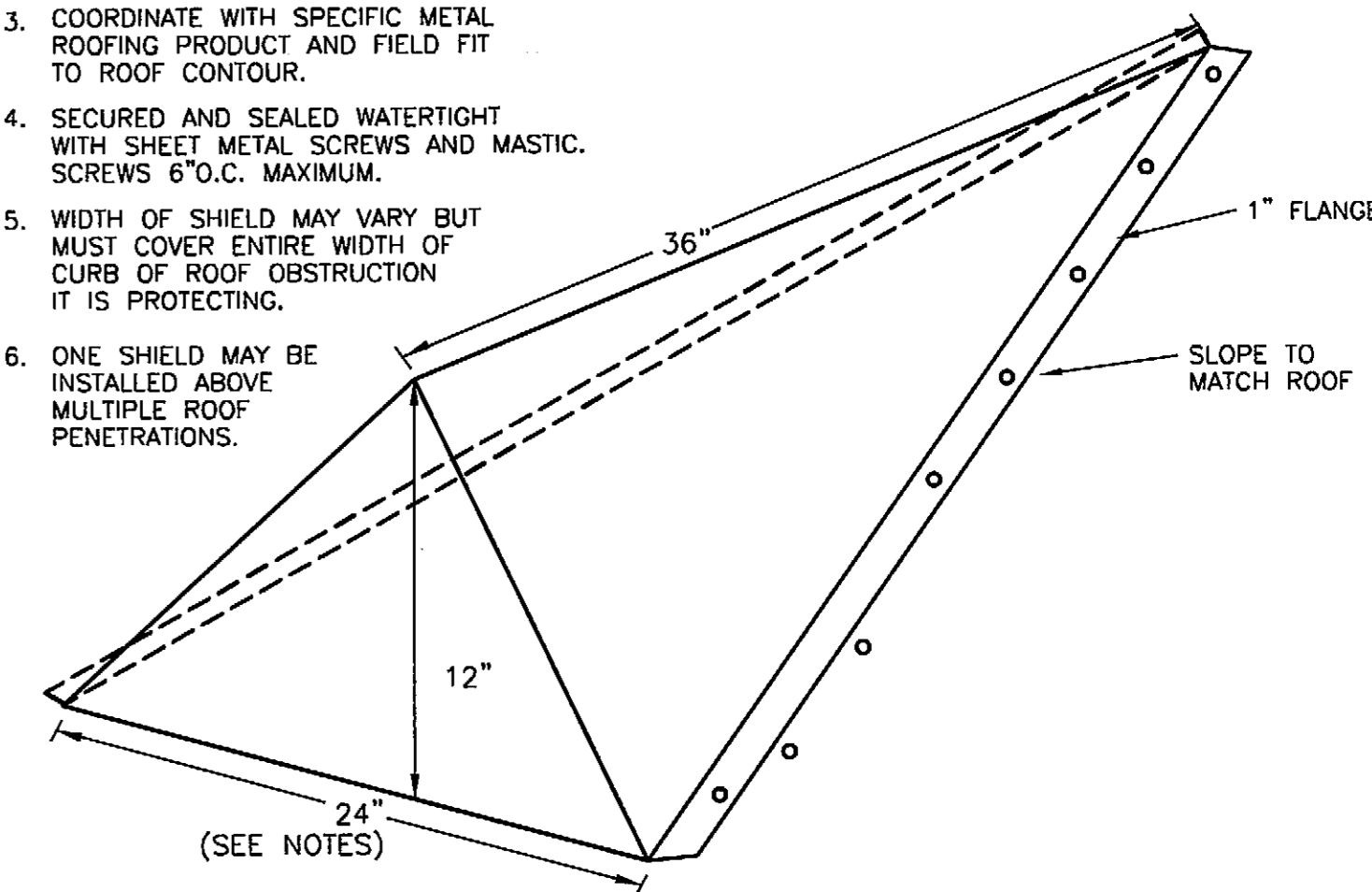
NOT USED
 ② VENT THROUGH ROOF DETAIL - METAL ROOFING
 NO SCALE



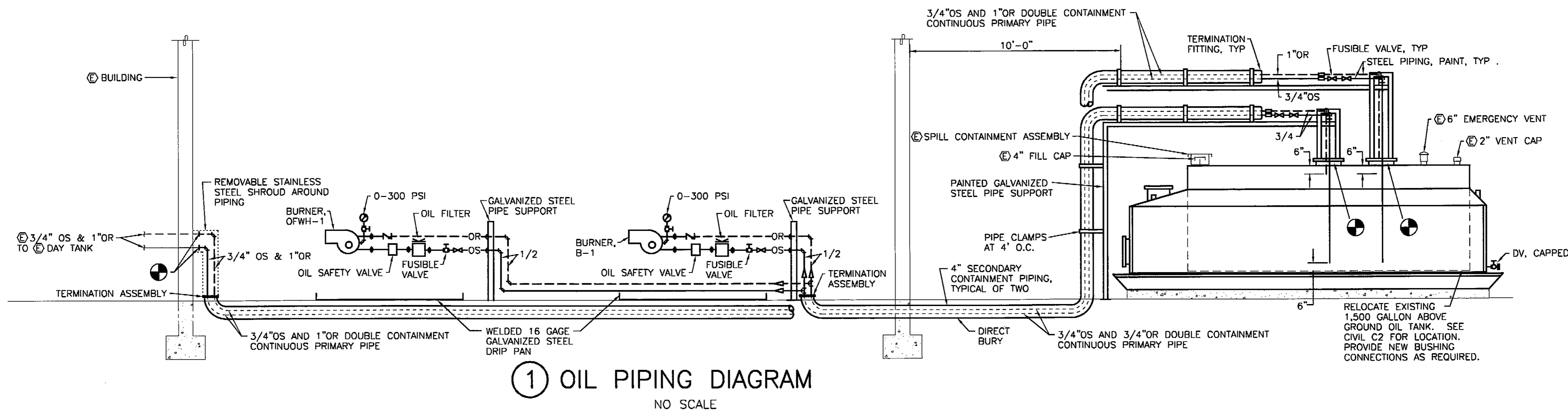
NOT USED
 ③ CHIMNEY ROOF PENETRATION DETAIL - METAL ROOFING
 NO SCALE

- NOTES:
1. CHIMNEY, FLASHING, AND ALL CHIMNEY ACCESSORIES LOCATED EXTERIOR TO BUILDING TO BE STAINLESS STEEL 304 MATERIAL.
 2. TOP OF CHIMNEY TO BE MINIMUM TWO FEET ABOVE ANY ROOF SURFACE WITHIN TEN HORIZONTAL FEET AWAY. VERIFY HEIGHT OF CHIMNEY WITH ALL FIELD CONDITIONS, ARCHITECTURAL DOCUMENTS, AND ROOF SLOPE.
 3. COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR AND GENERAL CONTRACTOR.

- NOTE:
1. ALTERNATE TO CRICKET PROVIDED BY ROOF MANUFACTURER.
 2. CONSTRUCTED OF 12 GAGE STEEL PLATE INCLUDING FRONT, ALL SEAMS WELDED, SECURED TO ROOF. TWO COATS RUST PREVENTIVE PAINT TO MATCH ROOF.
 3. COORDINATE WITH SPECIFIC METAL ROOFING PRODUCT AND FIELD FIT TO ROOF CONTOUR.
 4. SECURED AND SEALED WATERTIGHT WITH SHEET METAL SCREWS AND MASTIC. SCREWS 6" O.C. MAXIMUM.
 5. WIDTH OF SHIELD MAY VARY BUT MUST COVER ENTIRE WIDTH OF CURB OF ROOF OBSTRUCTION IT IS PROTECTING.
 6. ONE SHIELD MAY BE INSTALLED ABOVE MULTIPLE ROOF PENETRATIONS.



④ SNOW SHIELD DETAIL
 NO SCALE



① OIL PIPING DIAGRAM
 NO SCALE

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DATE:	BY:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

PETERSBURG

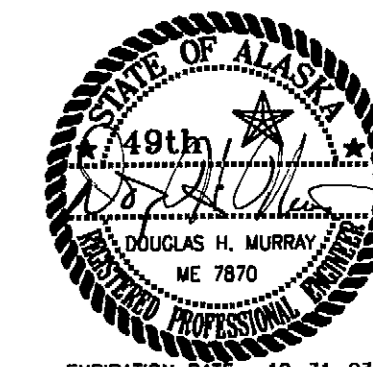
PETERSBURG AIRPORT SAND
 AND CHEMICAL STORAGE BUILDING
 DETAILS & DIAGRAMS

ALASKA

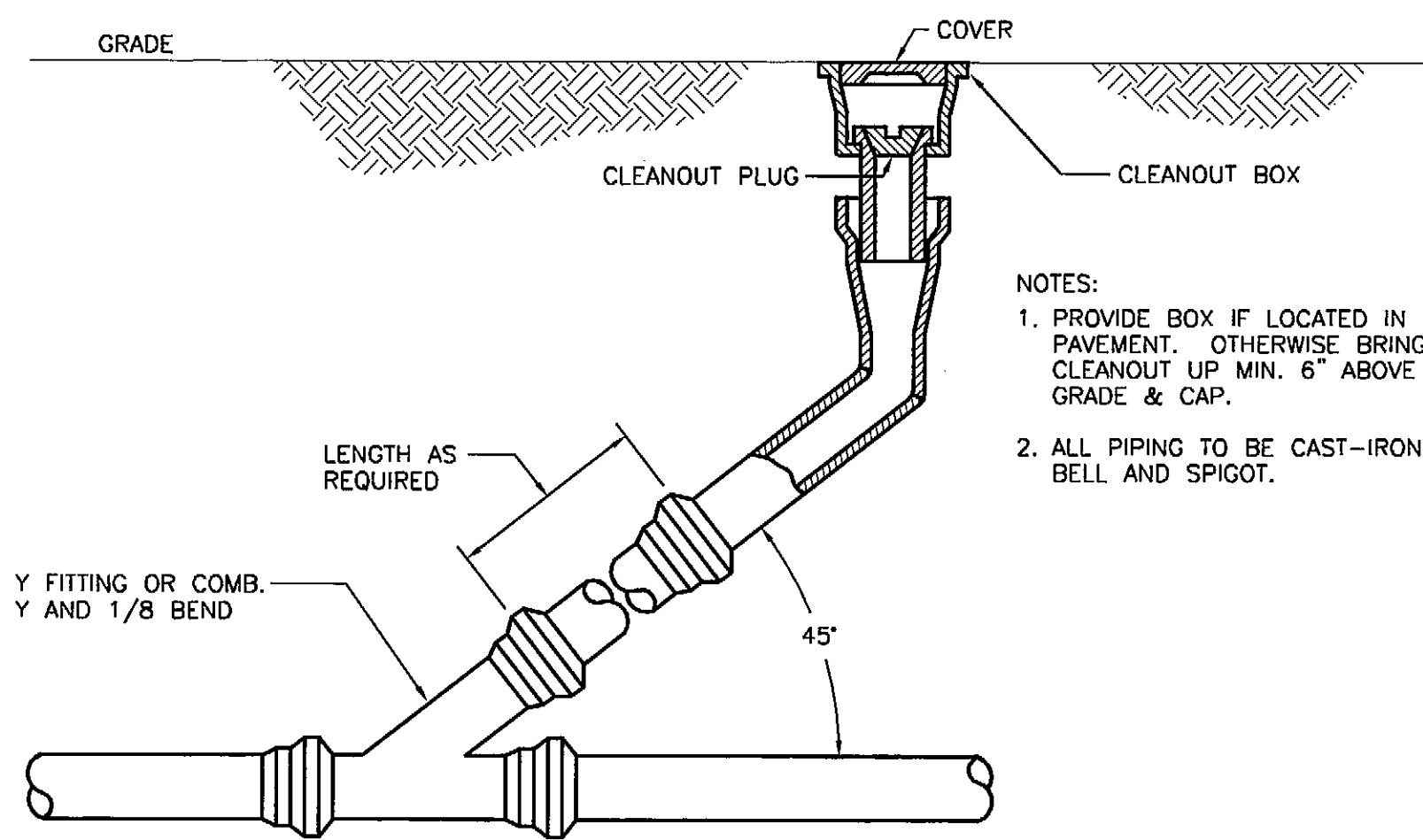
DESIGNED BY: DM
 DRAWN BY: RB
 CHECKED BY: DM

PROJECT NO. 68386
 AIP 3-02-0219-0903
 DATE: OCTOBER 3, 2003
 SHEET M401 OF 34

PLANS DEVELOPED BY:
 MURRAY & ASSOCIATES, P. C.
 ENGINEER'S SEAL

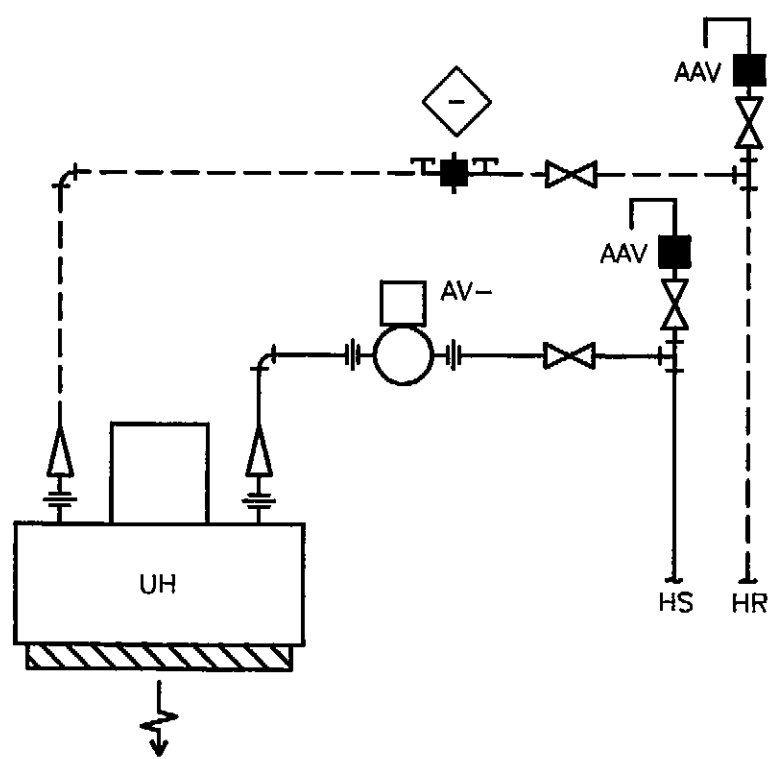


EXPIRATION DATE: 12-31-03

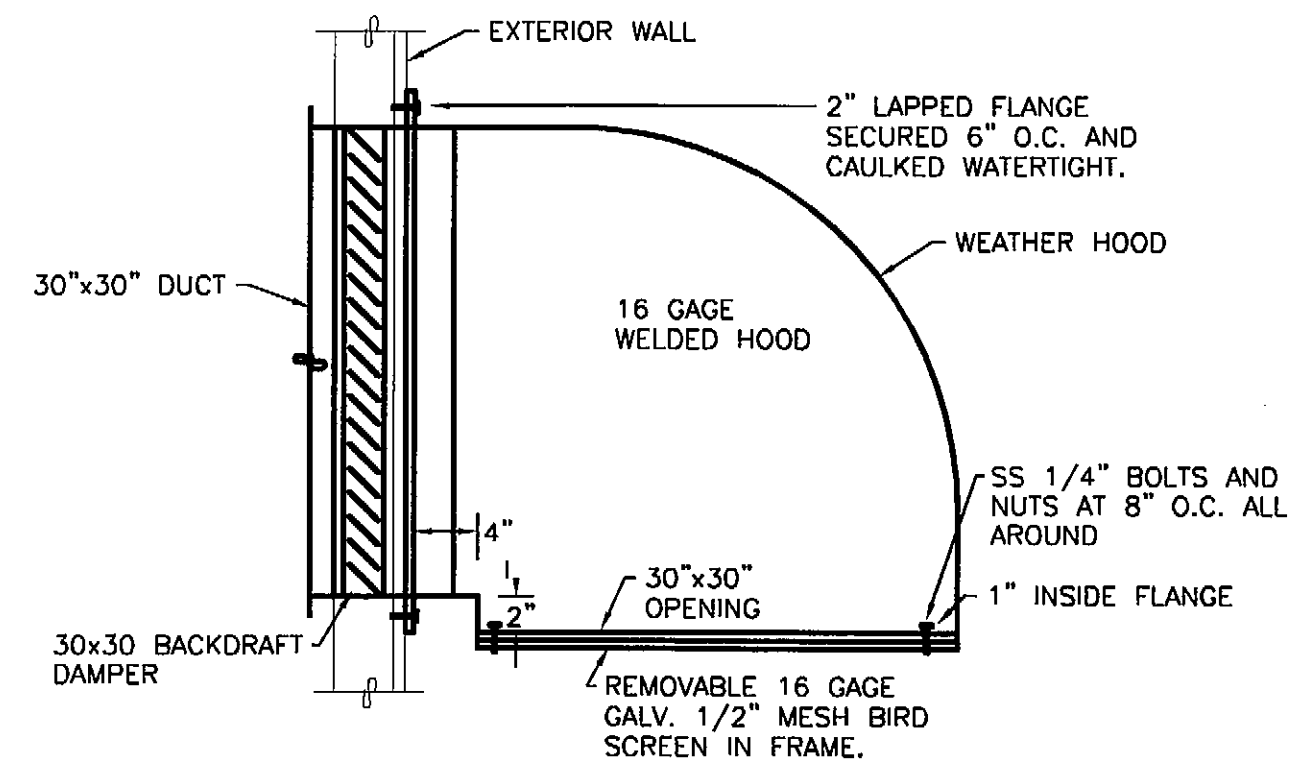


① YARD CLEANOUT DETAIL
NO SCALE

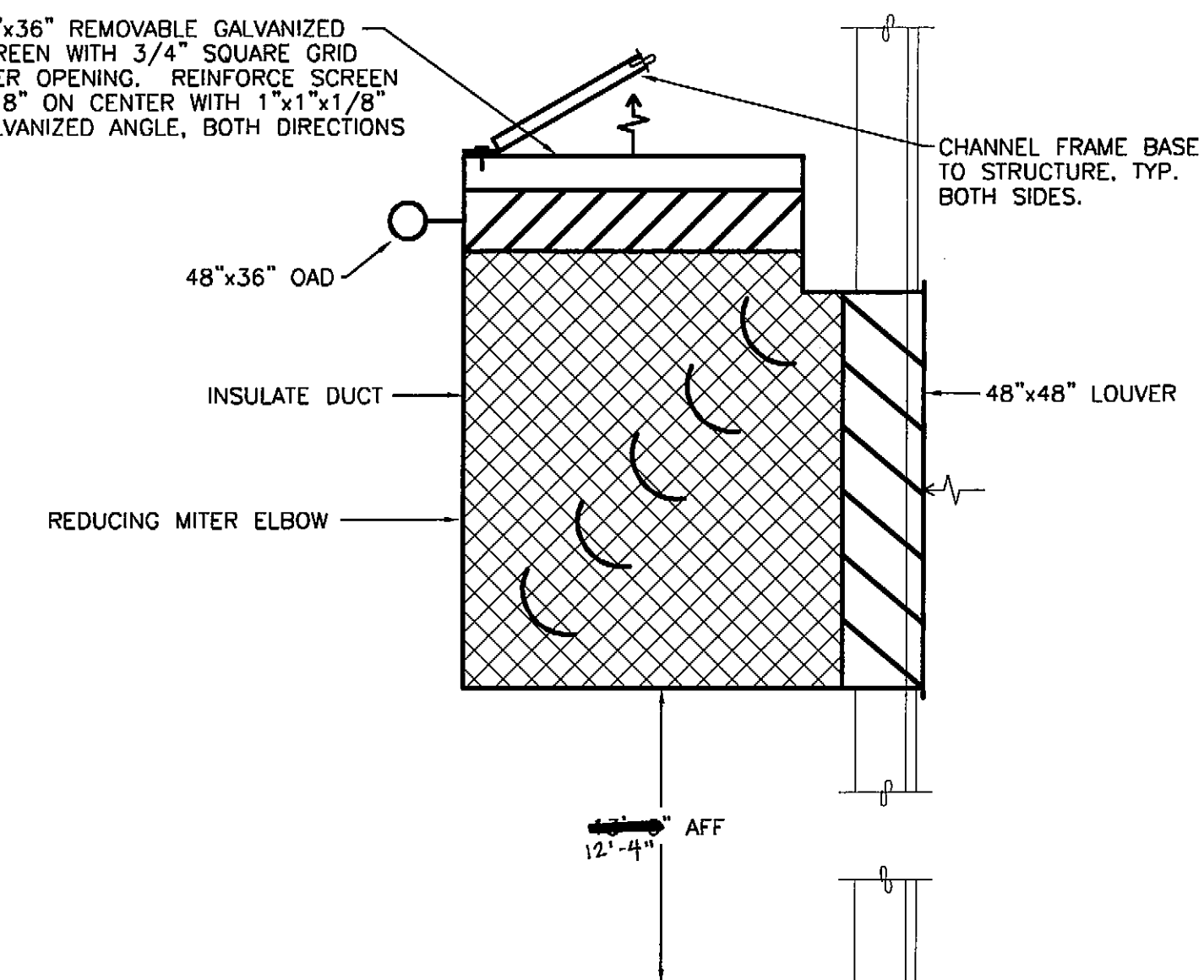
NOTES:
1. PROVIDE BOX IF LOCATED IN PAVEMENT. OTHERWISE BRING CLEANOUT UP MIN. 6" ABOVE GRADE & CAP.
2. ALL PIPING TO BE CAST-IRON BELL AND SPIGOT.



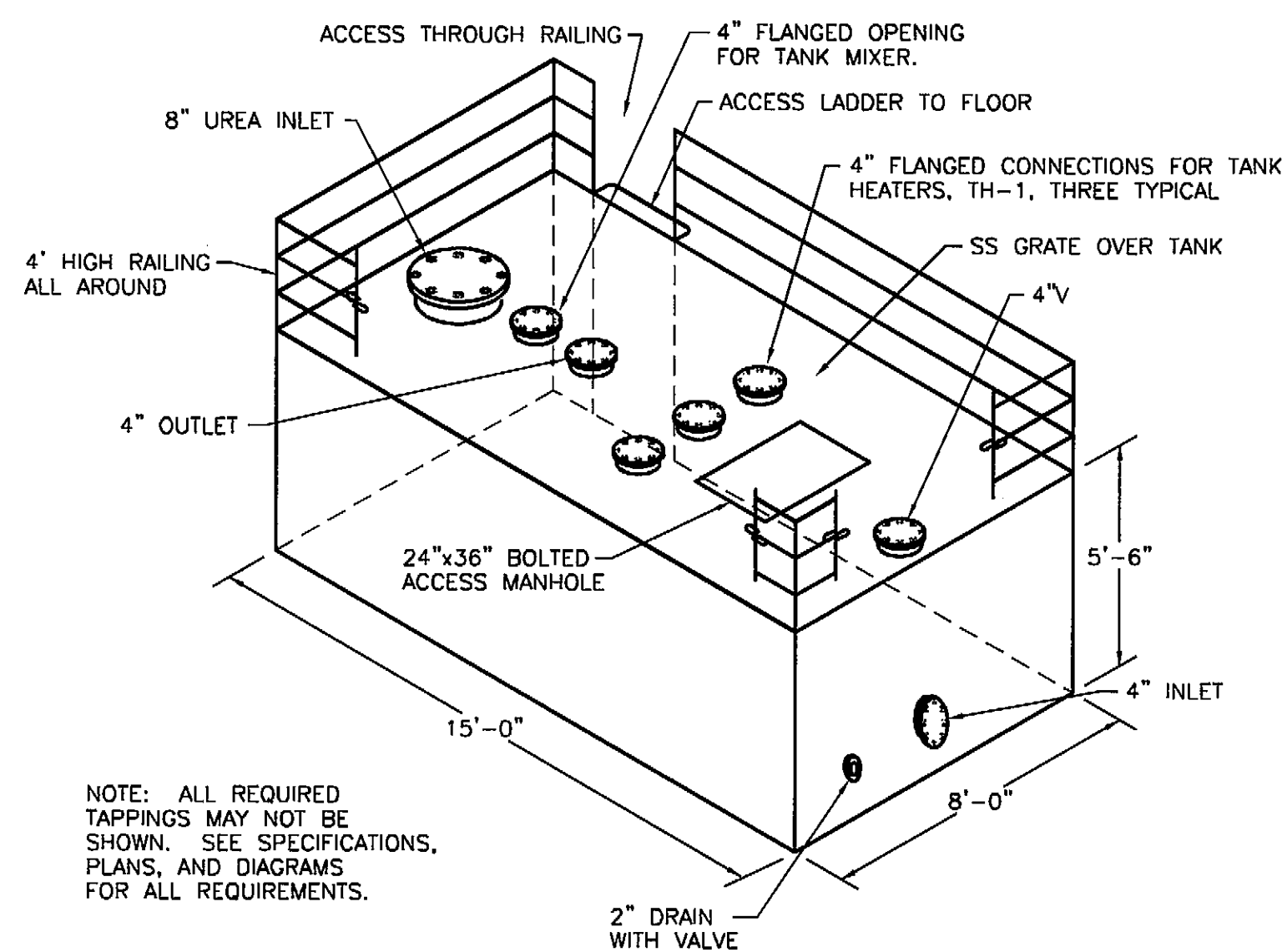
③ UNIT HEATER DETAIL
NO SCALE



⑤ WEATHER HOOD DETAIL
NO SCALE

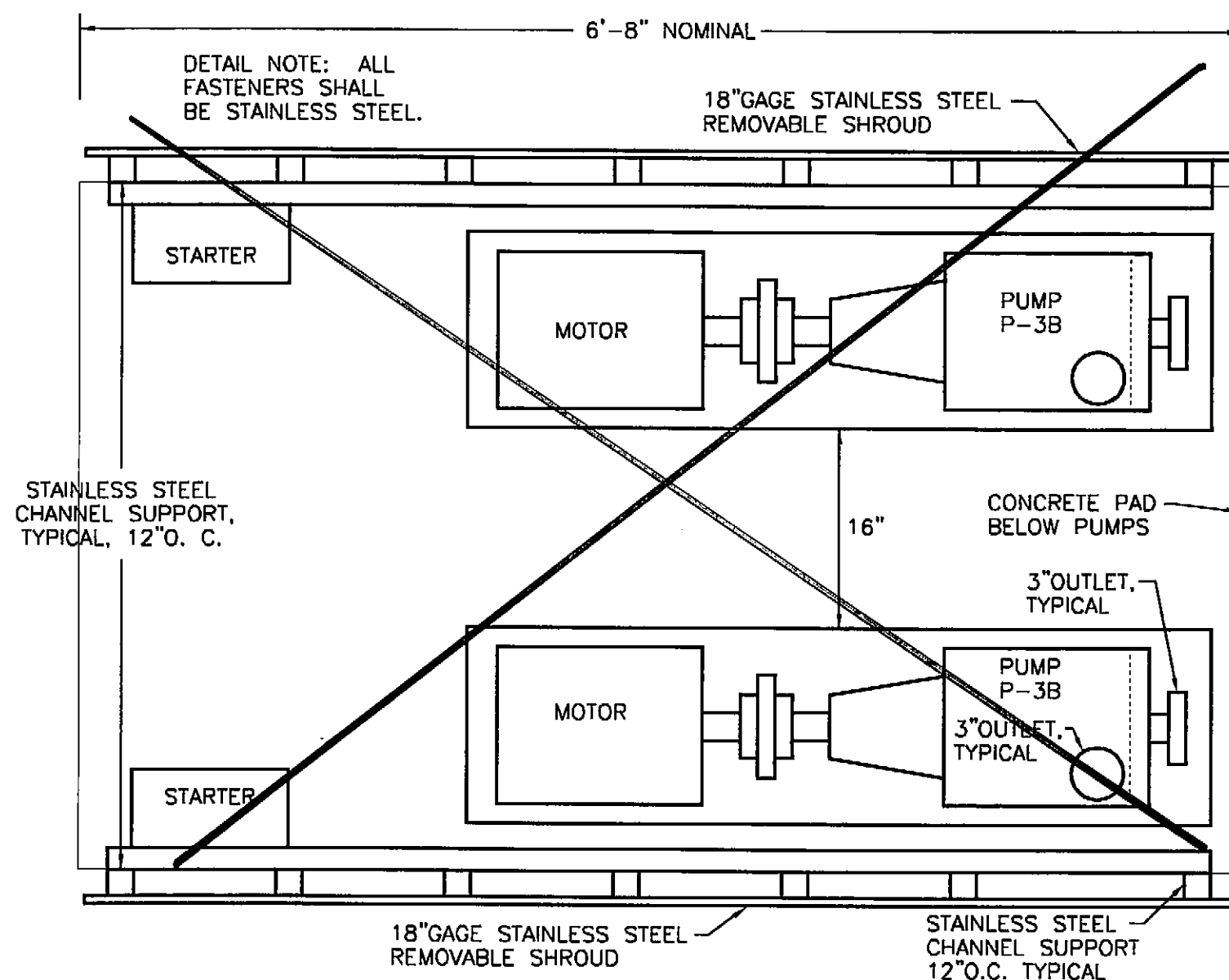


⑦ INTAKE LOUVER DETAIL
NO SCALE

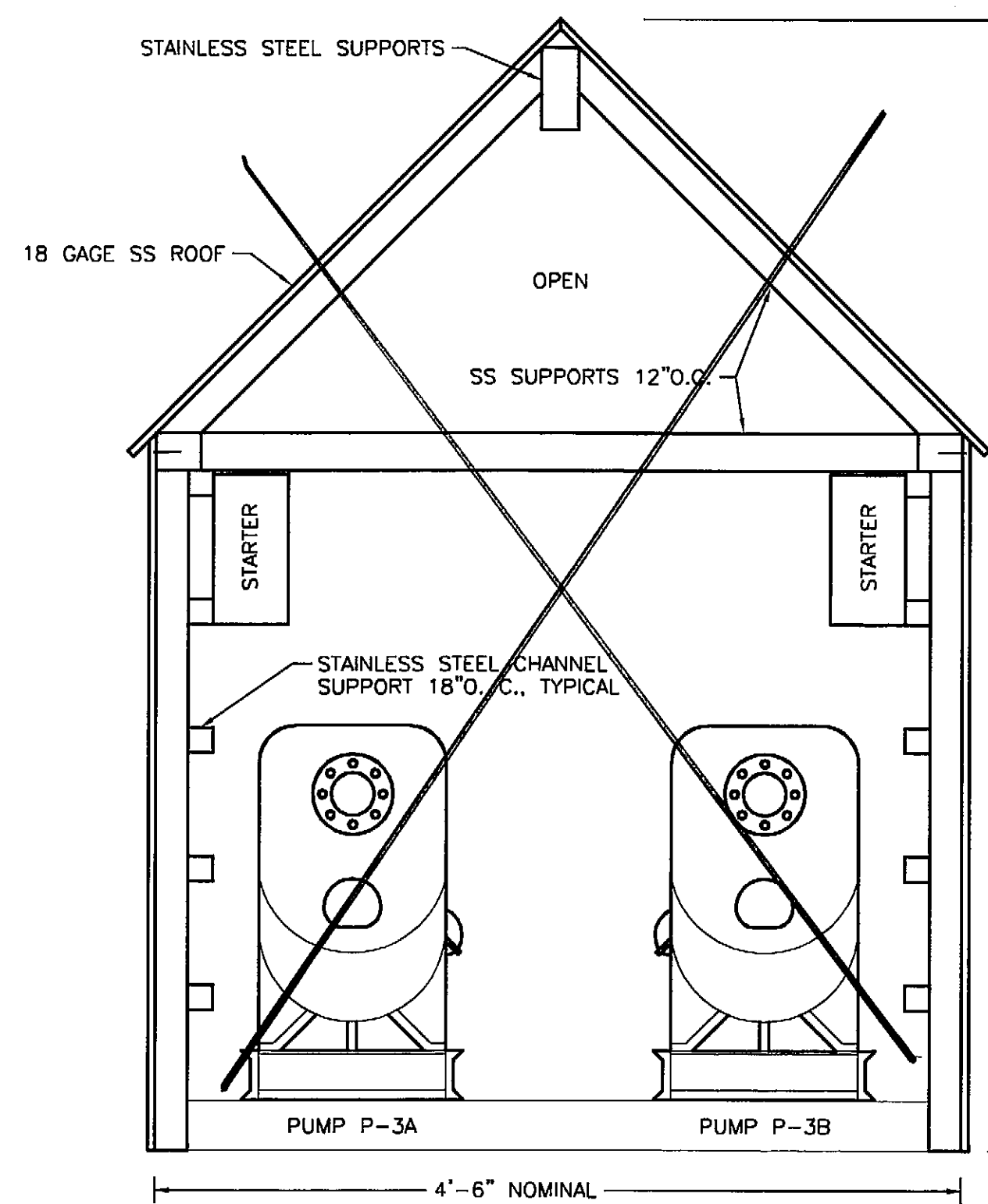


② UREA MIXING TANK SCHEMATIC
NO SCALE

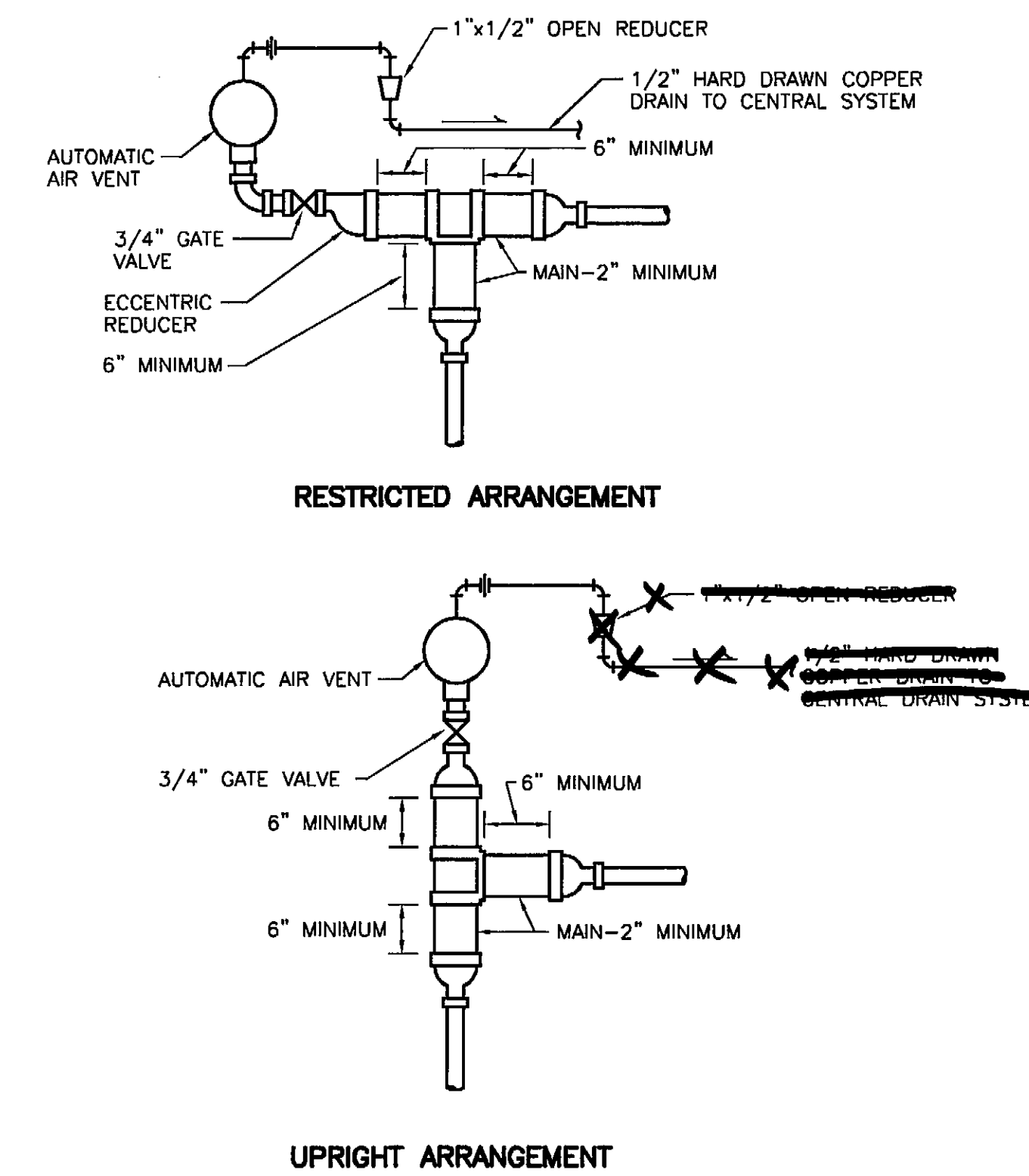
NOTE: ALL REQUIRED TAPPINGS MAY NOT BE SHOWN. SEE SPECIFICATIONS, PLANS, AND DIAGRAMS FOR ALL REQUIREMENTS.



④ PUMP DETAIL - PLAN
NO SCALE
DELETED



⑥ PUMP DETAIL - ELEVATION
NO SCALE
DELETED



⑧ AUTOMATIC AIR VENT DETAIL
NO SCALE

RECORD OF REVISIONS		
DATE:	BY:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

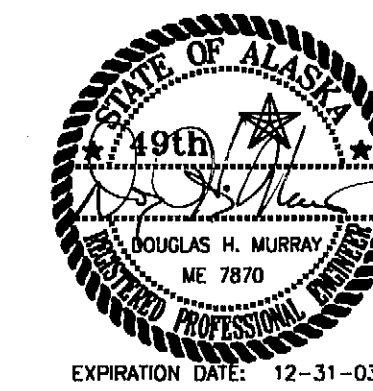
PETERSBURG

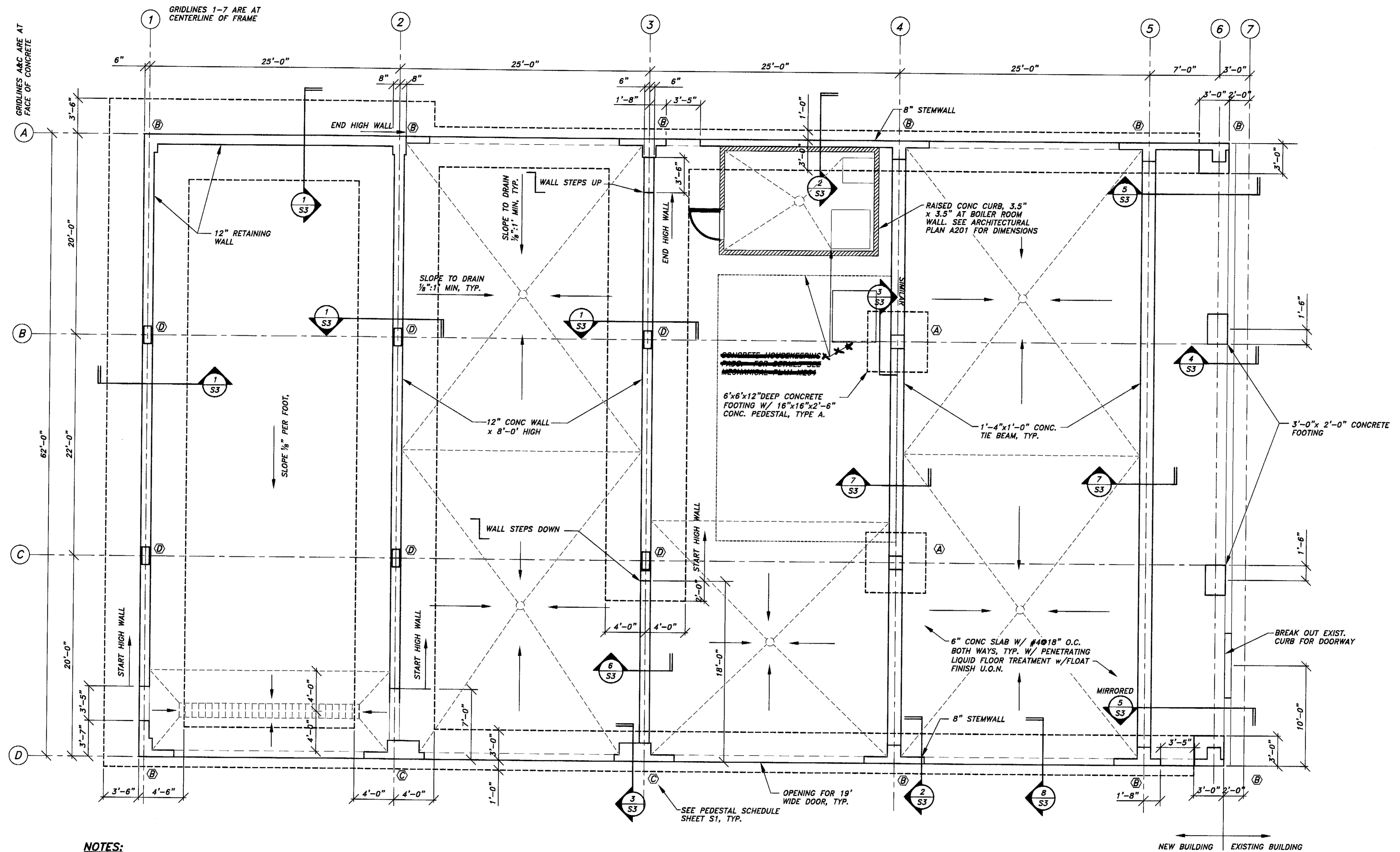
PETERSBURG AIRPORT SAND
AND CHEMICAL STORAGE BUILDING
DETAILS & DIAGRAMS

ALASKA

DESIGNED BY:	DM	PROJECT NO. 68386 AIP 3-02-0219-0903
DRAWN BY:	RB	DATE: OCTOBER 3, 2003
CHECKED BY:	DM	SHEET M402 OF 34

PLANS DEVELOPED BY:
MURRAY & ASSOCIATES, P. C.
ENGINEER'S SEAL





NOTES:
 TOP OF CONC AT 12" RETAINING WALL = FINISH FLOOR +8'-0"
 TOP OF CONC AT 8" STEMWALL = FINISH FLOOR +6"
 TOP OF CONCRETE AT DOORWAY = FINISH FLOOR DATUM +0.0
 TOP OF 18' TRENCH DRAIN GRATING = FINISH FLOOR -1"
 GRIDLINES 1 & 6: END WALL FRAME
 GRIDLINES 2, 3, 4: RIGID FRAME WITH INTERIOR COLUMNS
 GRIDLINE 5: RIGID FRAME WITH NO INTERIOR COLUMNS
 GRIDLINE D2 TO D3: PORTAL FRAME

1 FOUNDATION PLAN
 SCALE: 0 2' 4' 8'

I:\2001PROJ\011465\11\Structural\1465-FDN.dwg PLOT: October 13, 2003 of: 9:59am

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

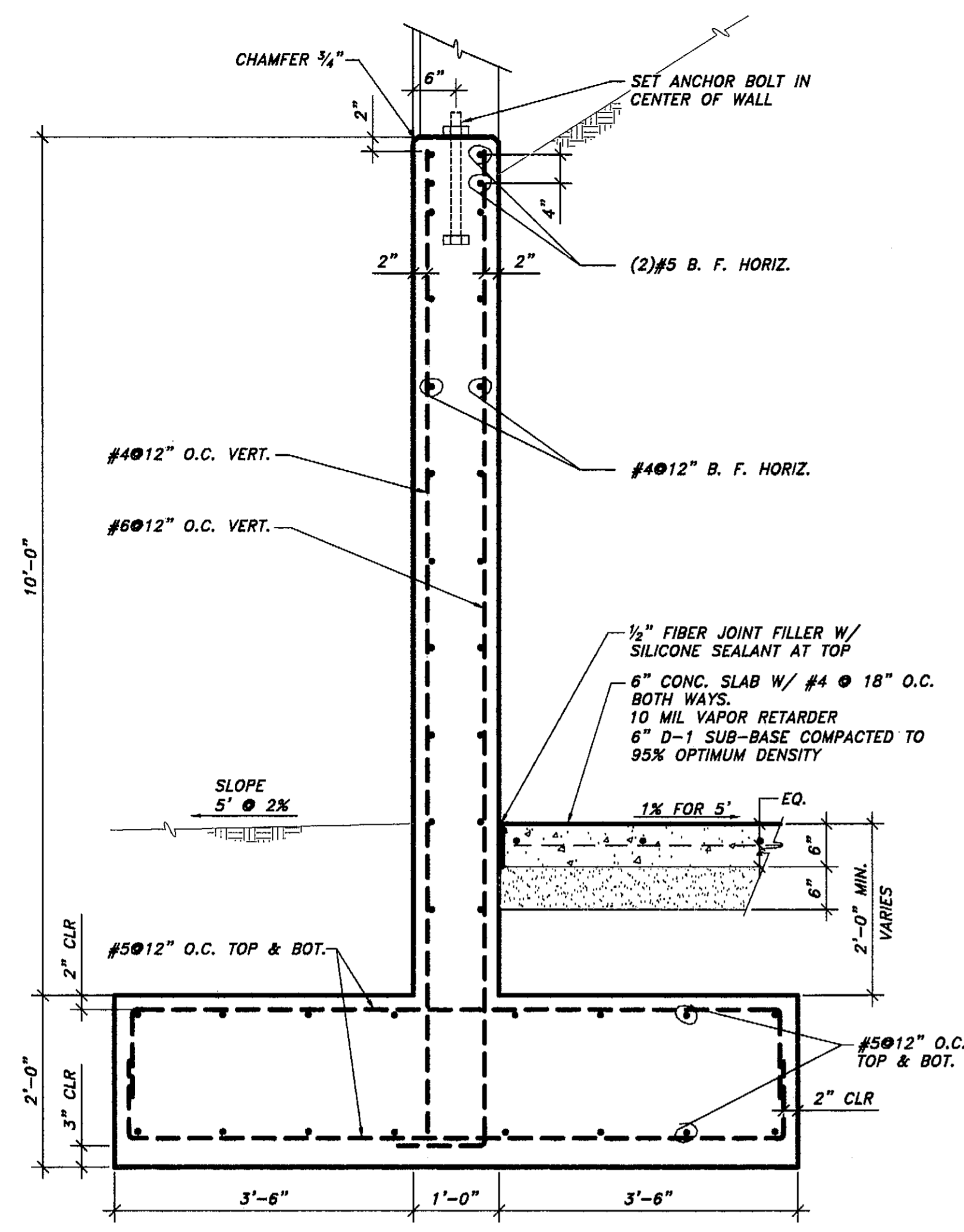
PETERSBURG
 PETERSBURG AIRPORT SAND AND
 CHEMICAL STORAGE BUILDING
 FOUNDATION PLAN
 ALASKA

DESIGNED BY:	A.D.S.	PROJECT NO. 68386 AIP 3-02-0219-0903
DRAWN BY:	M.R.C.	DATE: OCTOBER 3, 2003
CHECKED BY:	A.D.S.	SHEET S2 OF 34

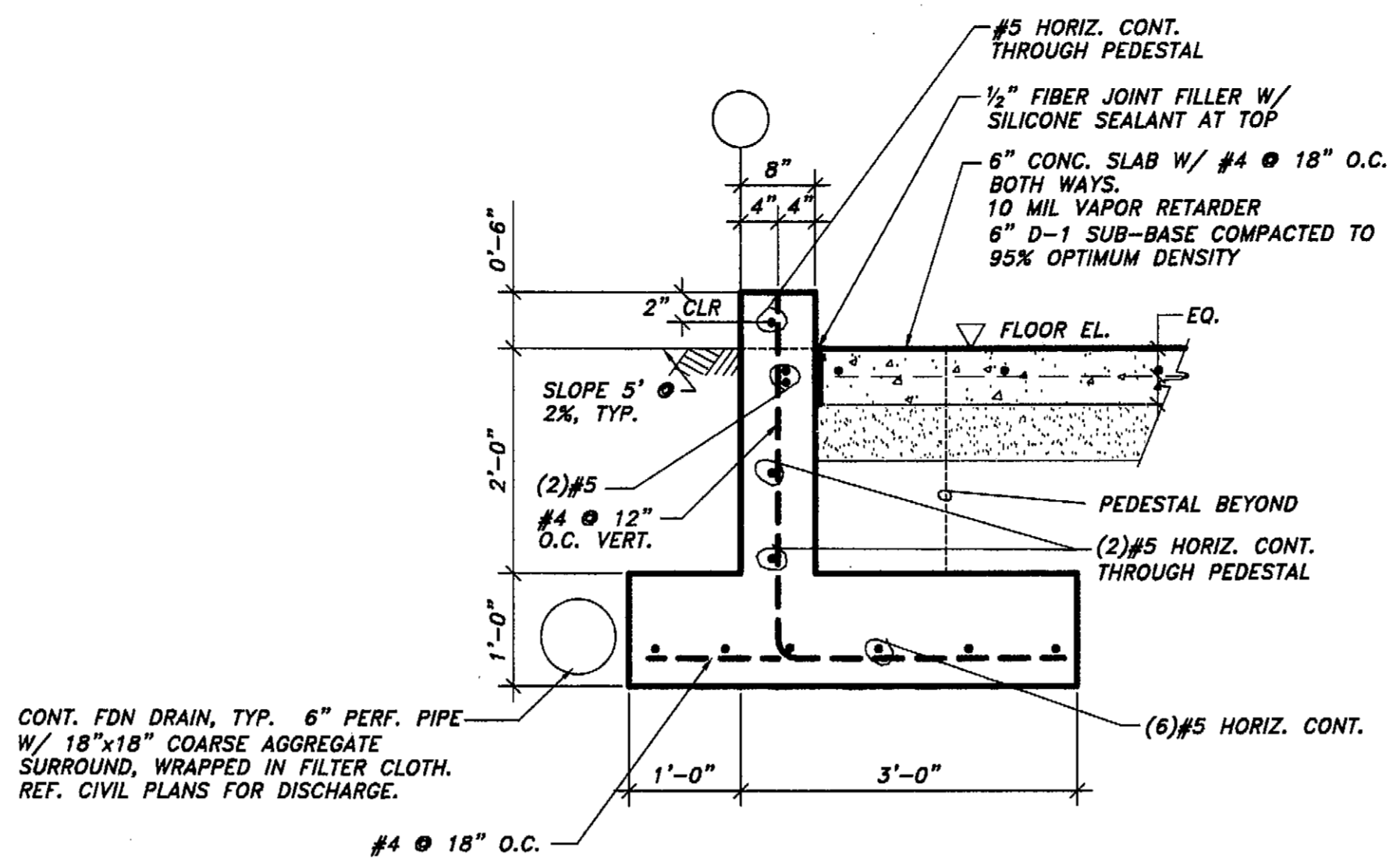
PLANS DEVELOPED BY:
 R&M ENGINEERING, INC.

NOTE:
 DO NOT SCALE FROM THESE
 PLANS - USE DIMENSIONS

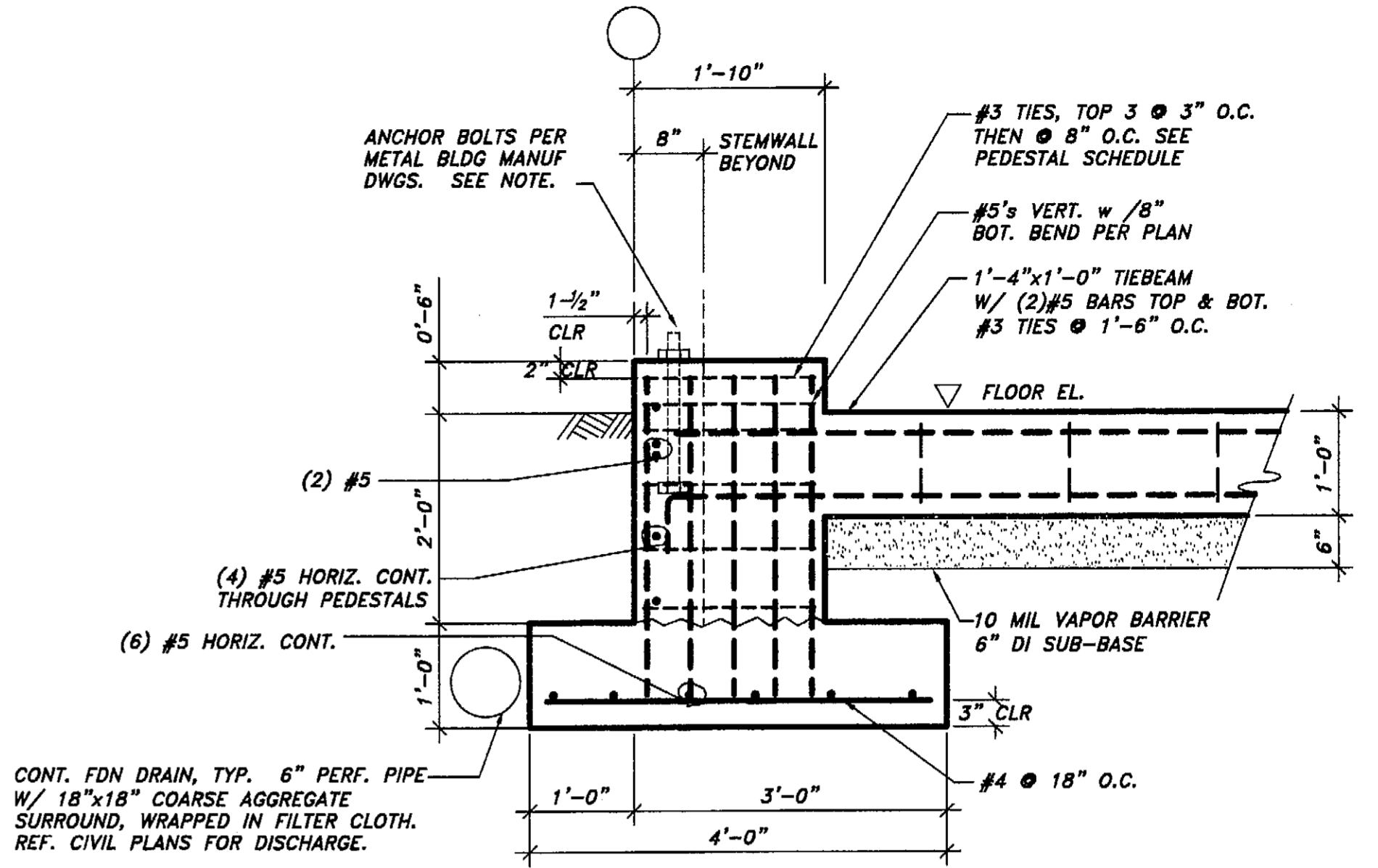
ENGINEER'S SEAL



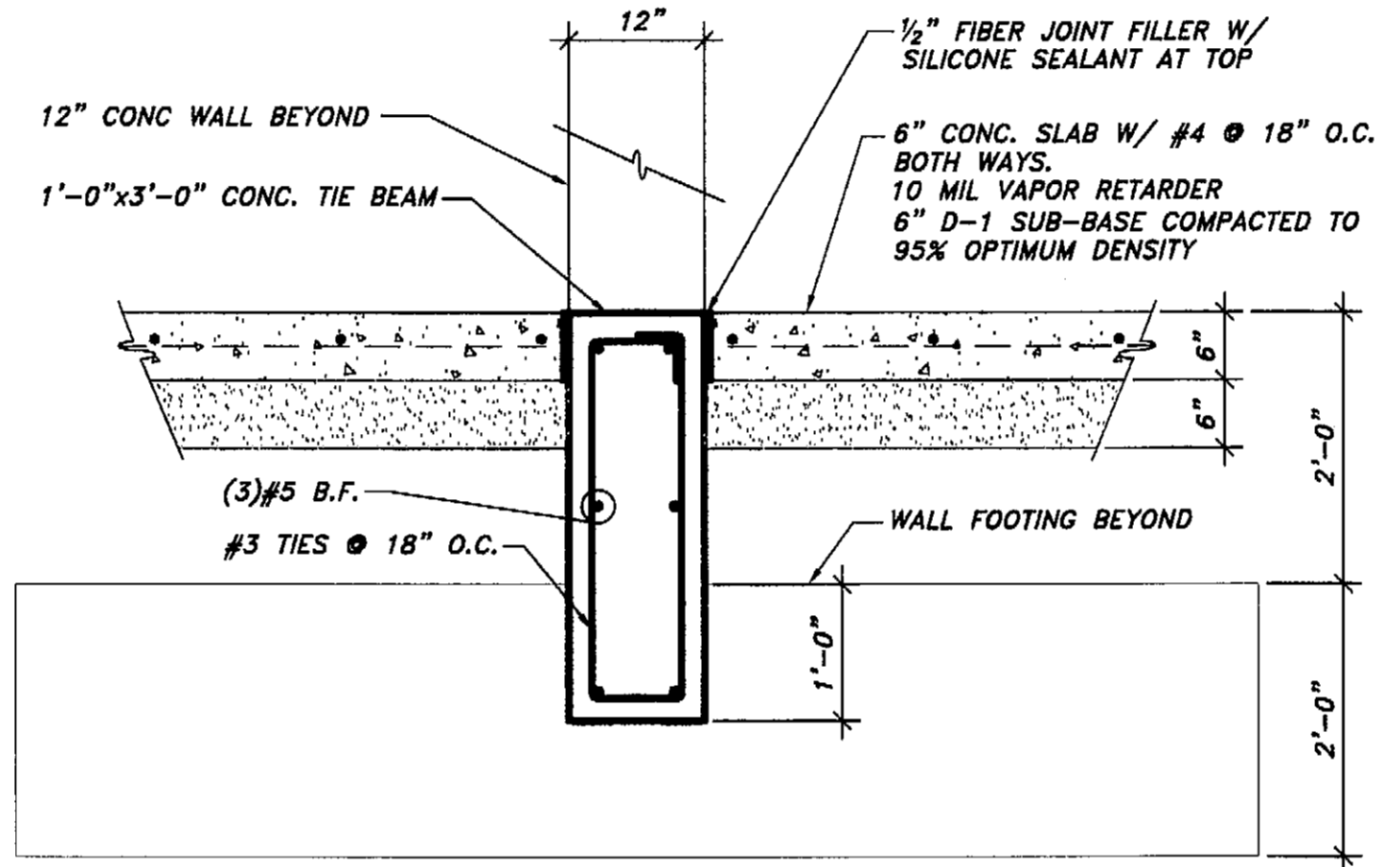
1 RETAINING WALL DETAIL
SCALE: 0 6" 1' 2'



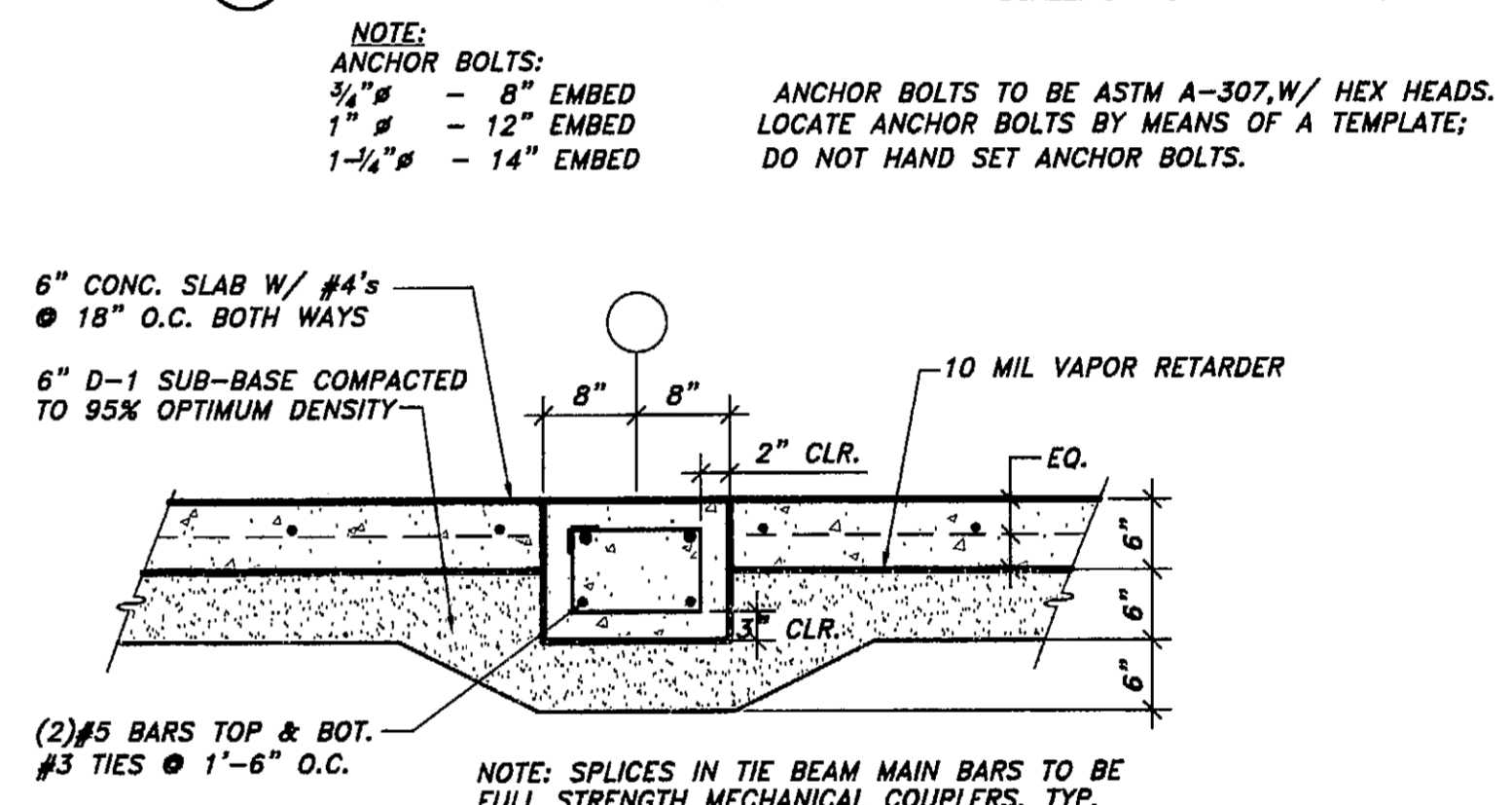
2 STEMWALL SECTION
SCALE: 0 6" 1' 2'



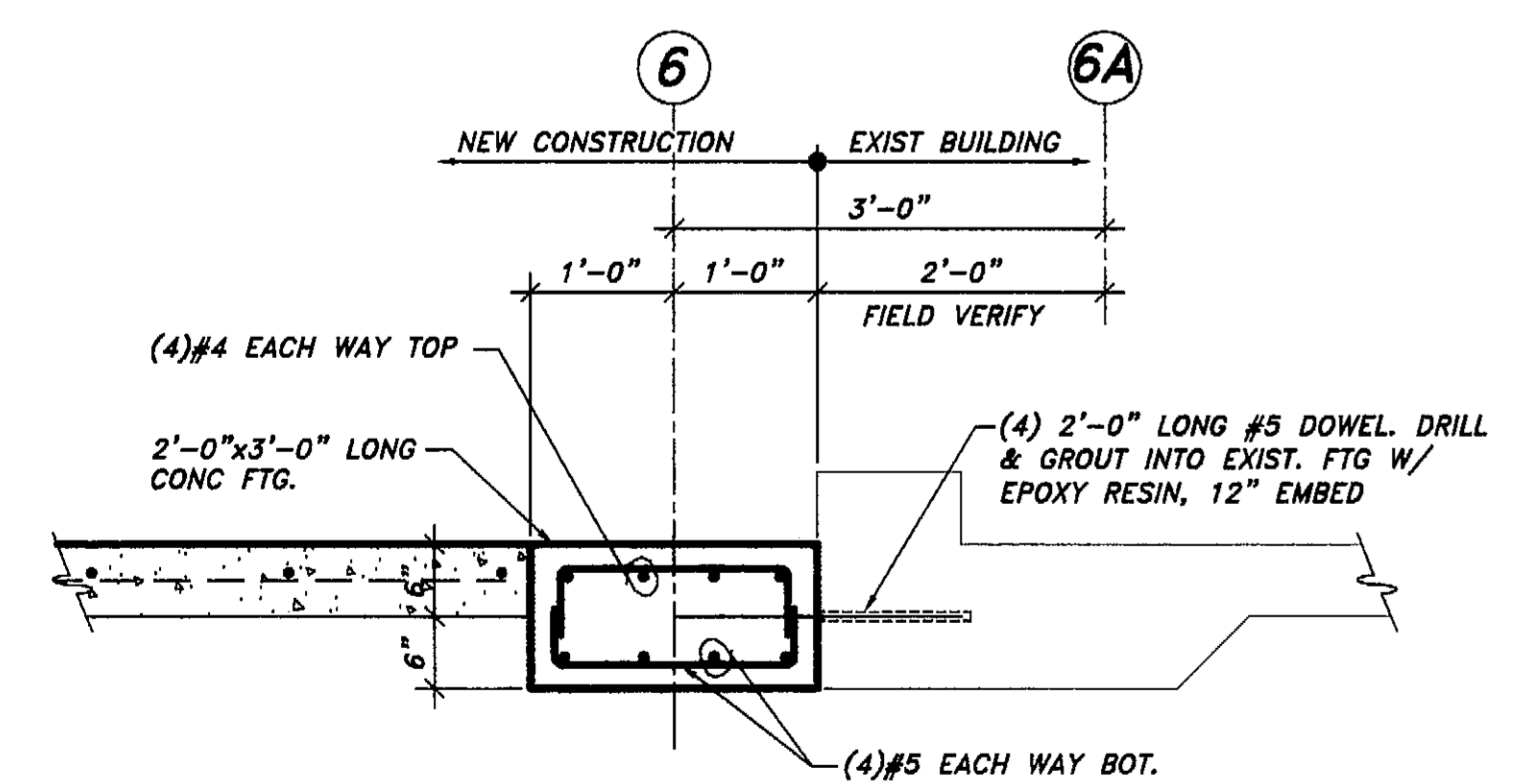
3 TYPICAL SIDEWALL PEDESTAL
SCALE: 0 6" 1' 2'



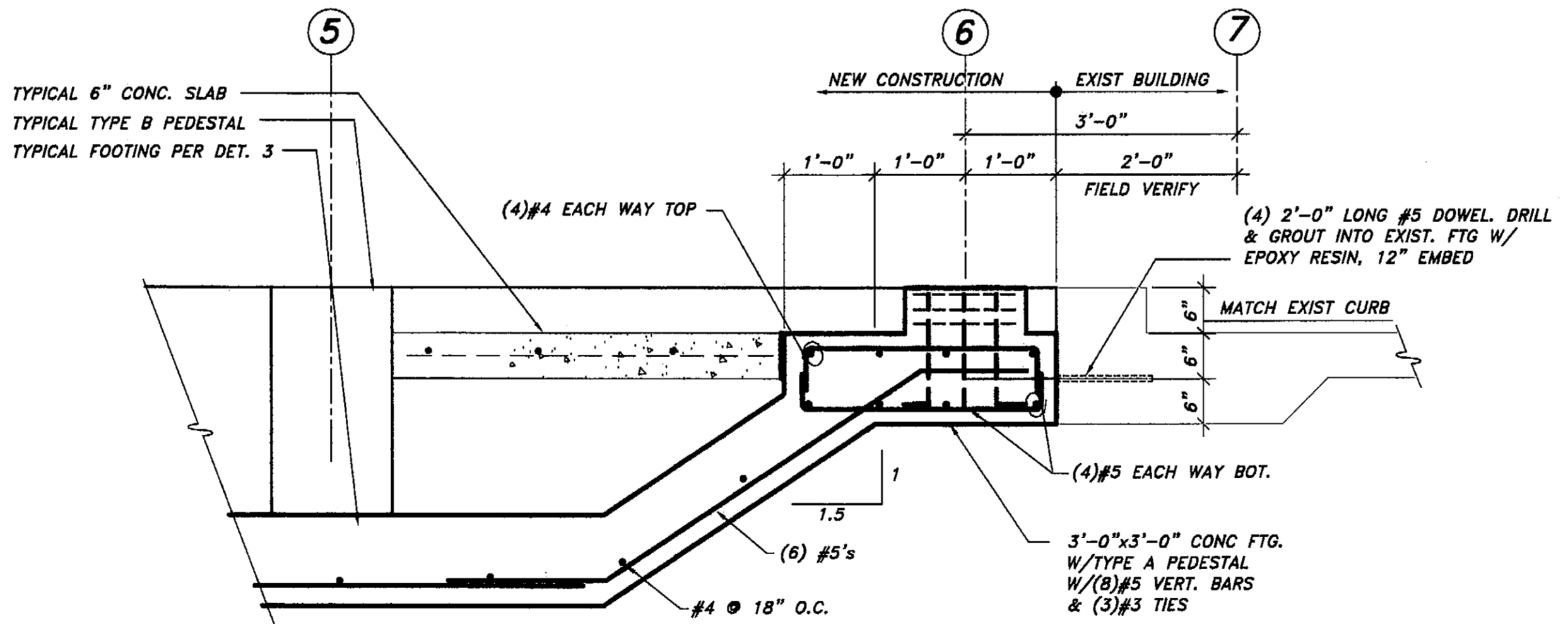
6 TIE BEAM DETAIL
SCALE: 0 6" 1' 2'



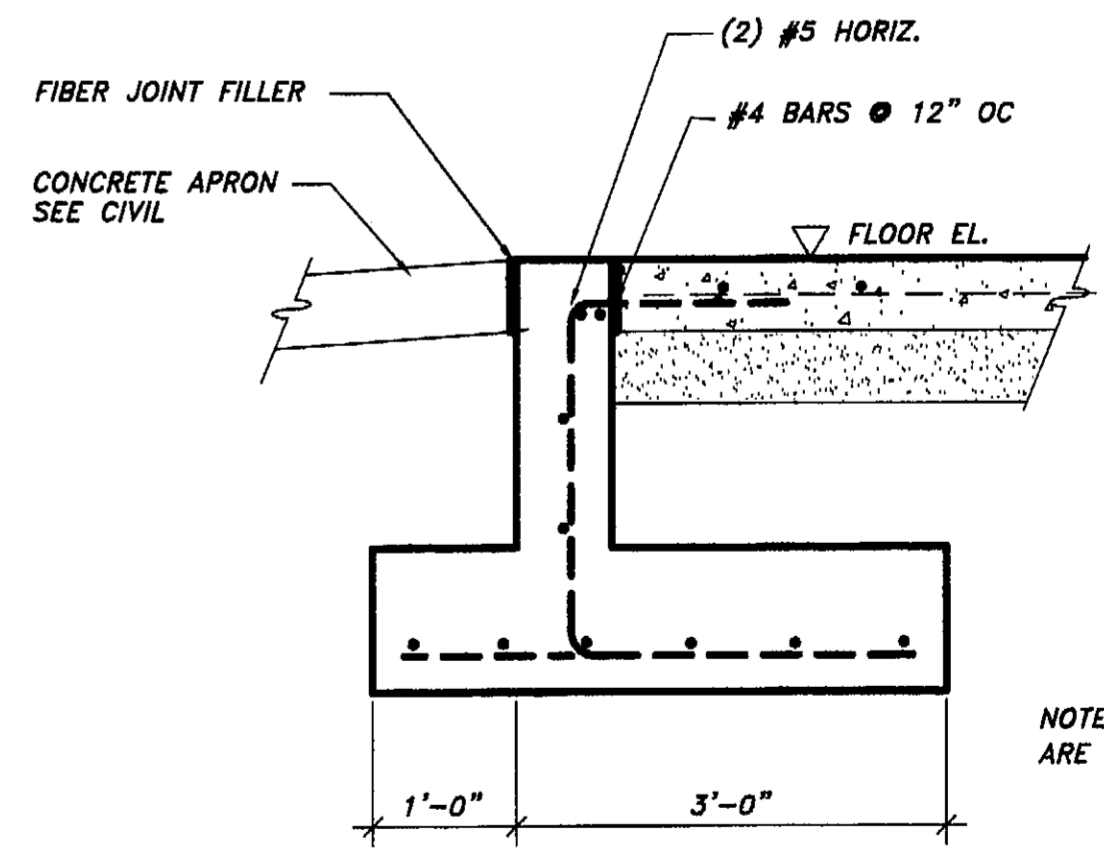
7 TIE BEAM DETAIL
SCALE: 0 6" 1' 2'



4 INTERIOR FOOTING AT EXISTING WALL
SCALE: 0 6" 1' 2'



5 CORNER FOOTING AT EXISTING WALL
SCALE: 0 6" 1' 2'



8 SECTION AT DOORWAY
SCALE: 0 6" 1' 2'

NOTE:
ANCHOR BOLTS:
3/4" # - 8" EMBED
1" # - 12" EMBED
1-1/4" # - 14" EMBED

ANCHOR BOLTS TO BE ASTM A-307, W/ HEX HEADS. LOCATE ANCHOR BOLTS BY MEANS OF A TEMPLATE; DO NOT HAND SET ANCHOR BOLTS.

NOTE: SPLICES IN TIE BEAM MAIN BARS TO BE FULL STRENGTH MECHANICAL COUPLERS, TYP.

NOTE: DETAILS NOT SHOWN ARE SIMILAR TO DETAIL 2

I:\2001PROJ\011465.11\Structural\1465-FDN-DET.dwg PLOT: October 13, 2003 at: 10:01am

NO.	DATE	DESCRIPTION OF CHANGE

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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PETERSBURG

PETERSBURG AIRPORT SAND AND
CHEMICAL STORAGE BUILDING
FOUNDATION DETAILS

ALASKA

DESIGNED BY:	A.D.S.	PROJECT NO. 68388
DRAWN BY:	M.R.C.	AIP 3-02-0219-0903
CHECKED BY:	A.D.S.	DATE: OCTOBER 3, 2003
		SHEET S3 OF 34

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL