

FILE W:\AS\FILES\WESTCHESTER\BOARDWALK\ACAD\TBC\ACAD\WLT-BASE-TBC-PATH AND PARKING-02242018-FINAL.DWG DATE/TIME 4/2/2018 4:00 PM LAYOUT A1 DESIGNED TA CHECKED TJ DRAFTED TA

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

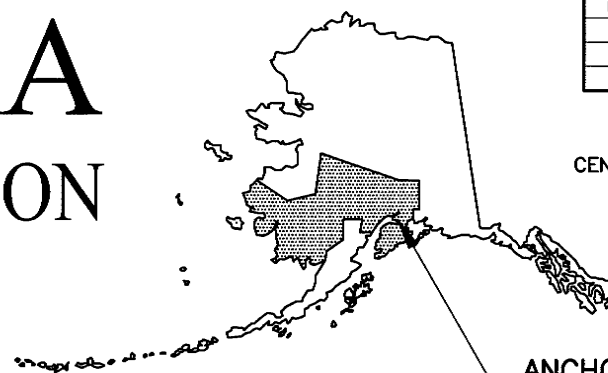
PROPOSED HIGHWAY PROJECT

AMATS: WESTCHESTER LAGOON

NATURE TRAIL REHABILITATION

PROJECT NO. TA18001/CFHWY00166

PARKING LOT AND NATURE TRAIL GRADING,
PAVING, ILLUMINATION, SIGNING AND STRIPING



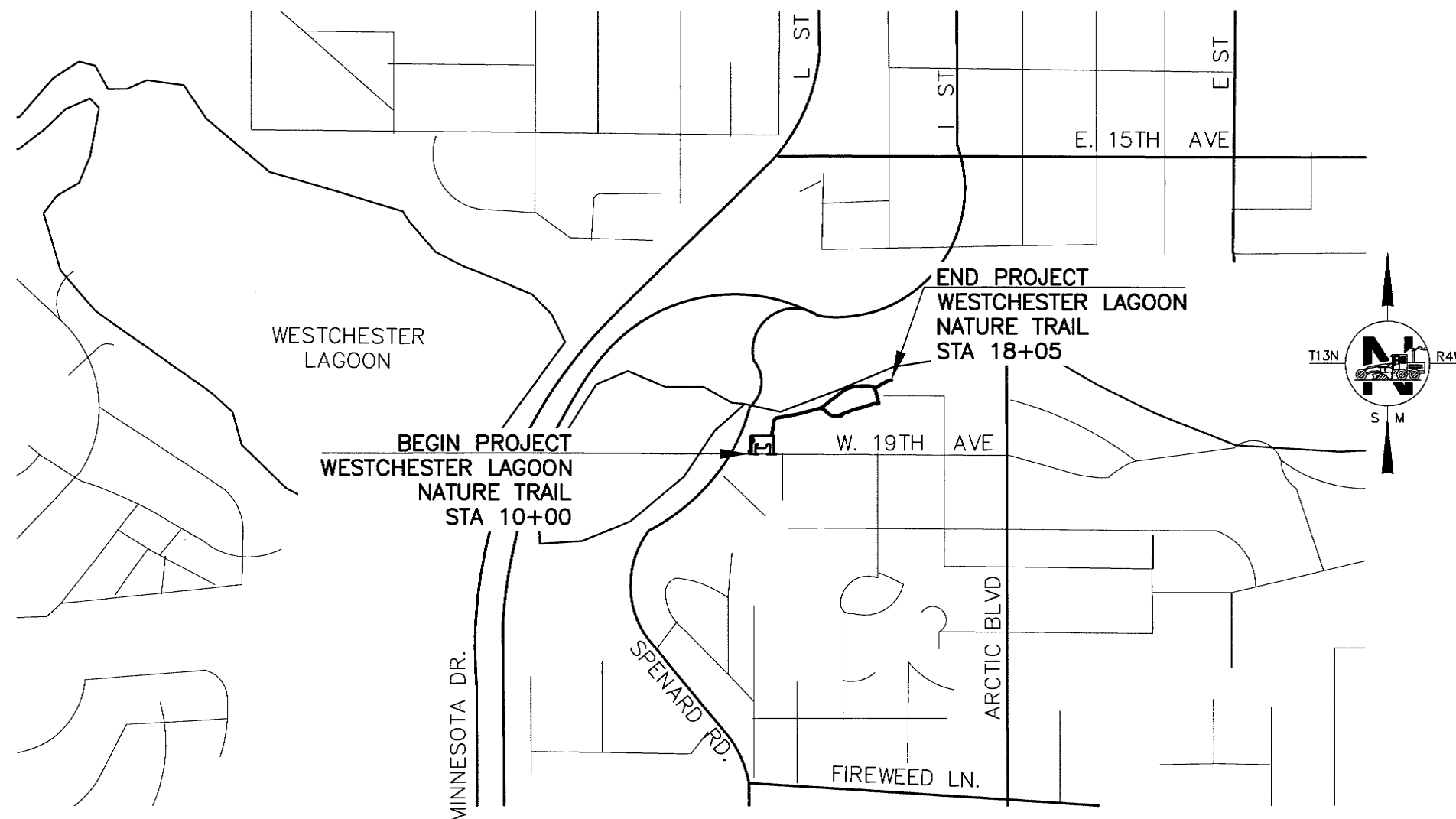
CENTRAL REGION
ALASKA

ANCHORAGE, AK
M&O STATION: ANCHORAGE

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	A1	A4
			LATITUDE	61.20401°	LONGITUDE	-149.90357°	


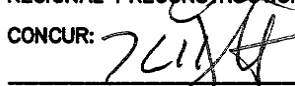
PROJECT SUMMARY		
ROADWAY	WIDTH	LENGTH
PARKING LOT	99 FT	126 FT
PATHWAY - MAIN	6 FT	805 FT
PATHWAY - SOUTH LOOP	6 FT	421 FT

**CENTRAL REGION
AS-ADVERTISED
JUNE 2018**

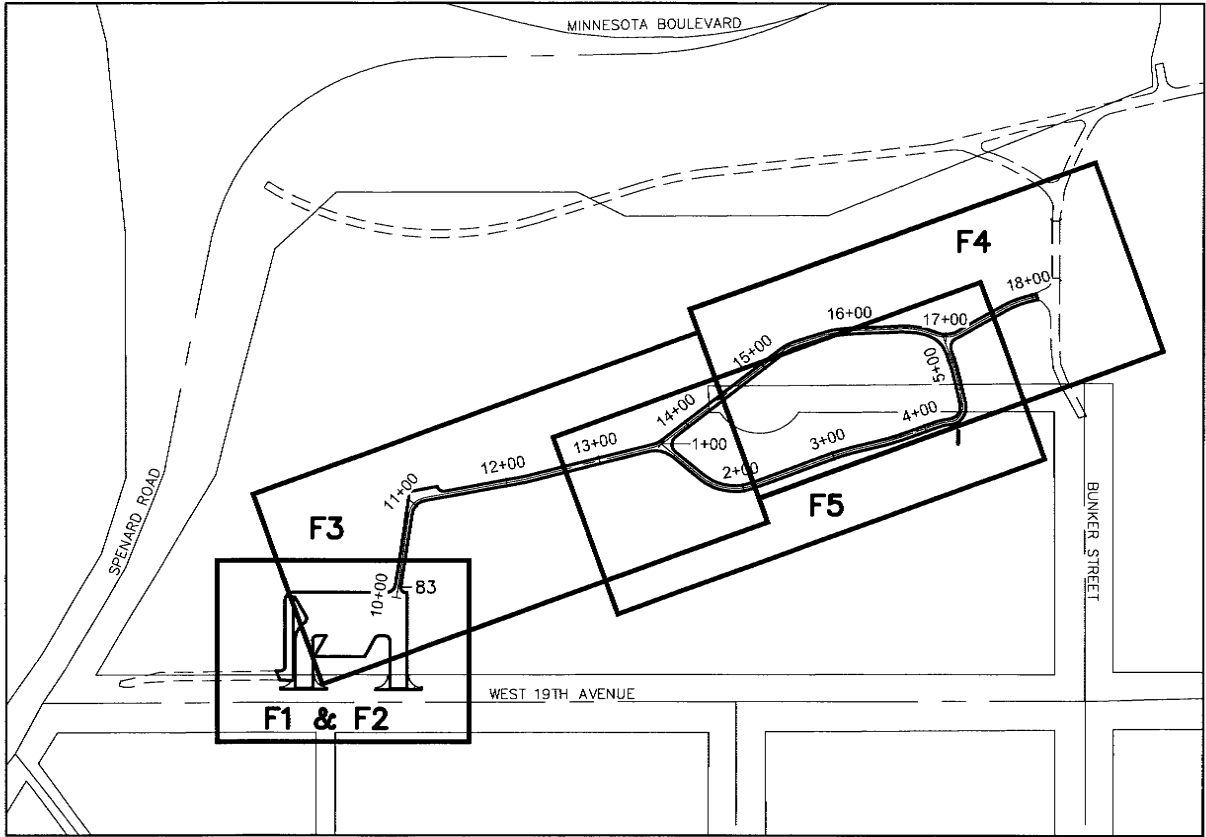


PLANS DEVELOPED BY: THE BOUTET COMPANY, INC.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
4111 AVIATION AVENUE, ANCHORAGE, AK 99502
(907)269-0590

APPROVED:  4/11/18
REGIONAL PRECONSTRUCTION ENGINEER DATE
CONCUR:  4/12/18
REGIONAL CONSTRUCTION ENGINEER DATE

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GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT-OF-WAY. NO EXCESS MATERIAL SHALL BE DISPOSED OF WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
- THE ROW LINES SHOWN ARE FROM RECORD MAPPING FROM MOA AND HAVE BEEN INSERTED INTO THE PLANS BY SCANNED PDF AND ARE APPROXIMATE.
- ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATE METHOD APPROVED BY THE ENGINEER.
- CLEARING LIMITS SHALL BE 5 FEET FROM NEW EDGE OF ASPHALT PATHWAY AS SHOWN IN THE TYPICAL SECTIONS ON SHEET B1 AND AS SHOWN AROUND THE PARKING LOT AS ON SHEET F1. CONTRACTOR SHALL GRUB ALL AREAS WITH IN THE CUT/FILL LIMITS. CONTRACTOR SHALL NOT DISTURB EXISTING VEGETATIVE MAT INSIDE THE CLEARING LIMITS OUTSIDE OF THE CUT/FILL LIMITS.
- PLACE 4" TOPSOIL AND SEED ANY AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. SEED AREAS WITHIN WETLAND LIMITS WITH WETLAND SEED MIX AS REQUIRED BY USACE NWP#18 POA-2015-519. SEED ALL OTHER AREAS WITH LANDSCAPE SEED MIX.
- THE EXISTING INFORMATION SHOWN IN THE PLANS IS FROM AS-BUILTS AND HAS BEEN PARTIALLY FIELD VERIFIED. FIELD CONDITIONS MAY NOT BE ACCURATELY REPRESENTED AND/OR MAY HAVE CHANGED. ADJUST INSTALLATIONS AS DIRECTED BY THE ENGINEER.
- ADJUST ALL PAVEMENT PENETRATIONS TO FINAL GRADE PRIOR TO TOP LIFT OF PAVING.

IF ANY PAVEMENT PENETRATION REQUIRES GRADE ADJUSTMENT AFTER FINAL LIFT PAVING, AS DETERMINED BY THE ENGINEER, SAW CUT A NEAT LINE ALONG THE PAVEMENT TO BE REMOVED. USE AN INFRARED HEATER TO HEAT THE EXISTING PAVEMENT; EQUIPMENT AND MAXIMUM TEMPERATURE SHALL BE APPROVED BY THE ENGINEER. REPLACE THE REMOVED ASPHALT WITH NEW HOT MIX ASPHALT AND THOROUGHLY COMPACT. SEAL JOINTS AT LEAST 12 INCHES WIDE USING ASPHALT SYSTEMS GSB-88 OR APPROVED EQUAL, WHILE THE HOT MIX ASPHALT IS CLEAN, FREE OF MOISTURE AND PRIOR TO STRIPING.

THERE SHALL BE NO PAYMENT FOR ADDITIONAL WORK CAUSED BY FAILURE TO ADJUST PAVEMENT PENETRATIONS TO FINAL GRADE.
- ON STANDARD DRAWING C-03.10, PROVIDE ADA COMPLIANT PEDESTRIAN TRAFFIC CONTROL DEVICES FOR PEDESTRIAN DETOURS.

INDEX	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SHEET LAYOUT, INDEX, AND GENERAL NOTES
A3	LEGEND
A4	ROW MAP & SURVEY CONTROL DIAGRAM
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1	SUMMARY TABLES
E1-E2	DETAILS
F1	PARKING LOT DEMOLITION PLAN
F2	PARKING LOT LAYOUT PLAN
F3-F5	NATURE TRAIL PLAN AND PROFILE
G1	PARKING LOT LAYOUT AND GRADING PLAN
H1-H10	ILLUMINATION, SIGNING, AND STRIPING
L1-L2	LANDSCAPE PLAN

THE FOLLOWING REGIONAL DRAWINGS APPLY TO THIS PROJECT:

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:
C-04.12, C-03.10*
I-30.10*
S-05.01, S-30.04

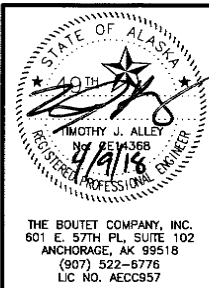
* AS MODIFIED HEREIN

ABBREVIATIONS:

CABC	CRUSHED AGGREGATE BASE COURSE
MOA	MUNICIPALITY OF ANCHORAGE
SL	SOUTH LOOP TRAIL
WLNT	WESTCHESTER LAGOON NATURE TRAIL
SS	STRUCTURAL STEEL

SPECIFICATION:

CONSTRUCT THE IMPROVEMENTS COVERED BY THESE PLANS IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES 2017 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE PROJECT SPECIAL PROVISIONS.



STATE OF ALASKA
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**AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION**

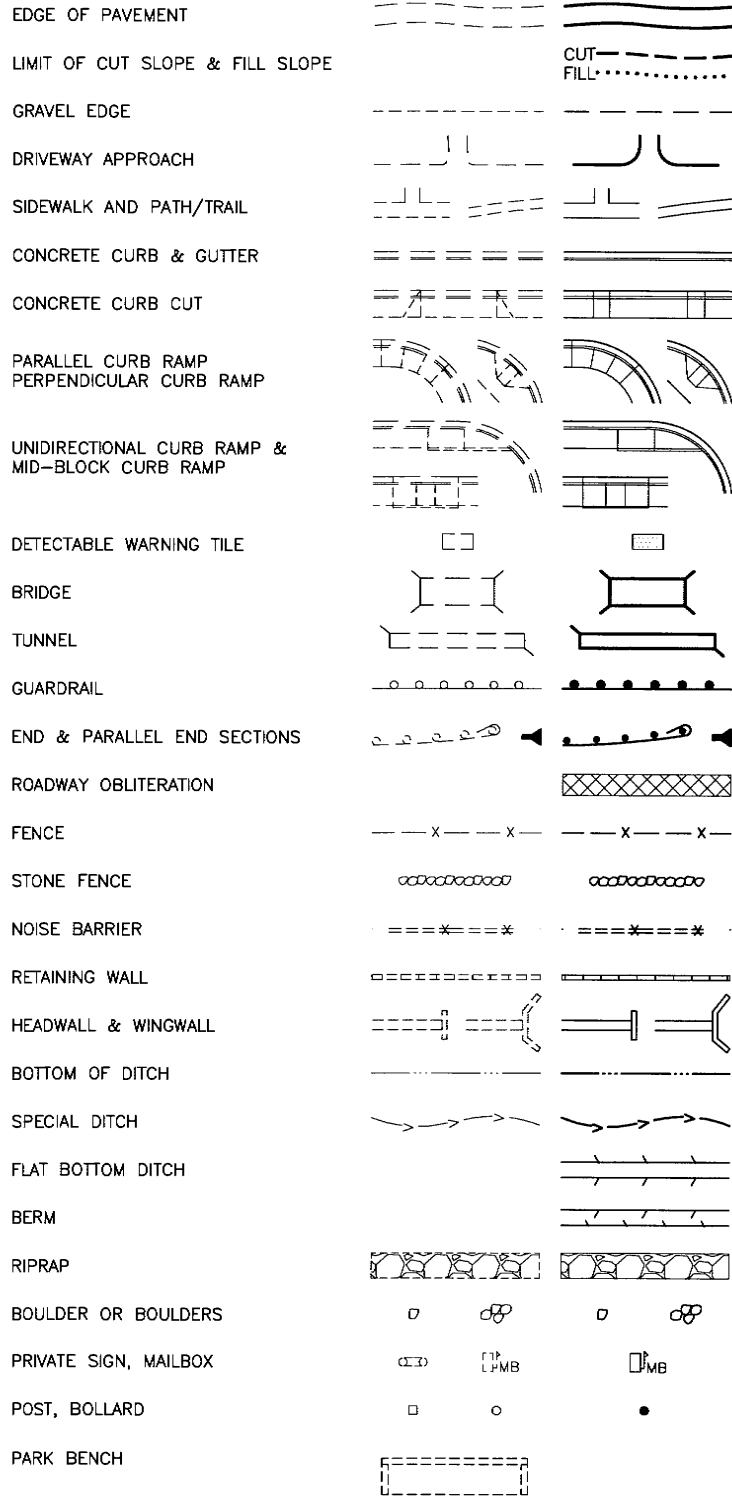
**SHEET LAYOUT, INDEX,
AND GENERAL NOTES**

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ROADWAY

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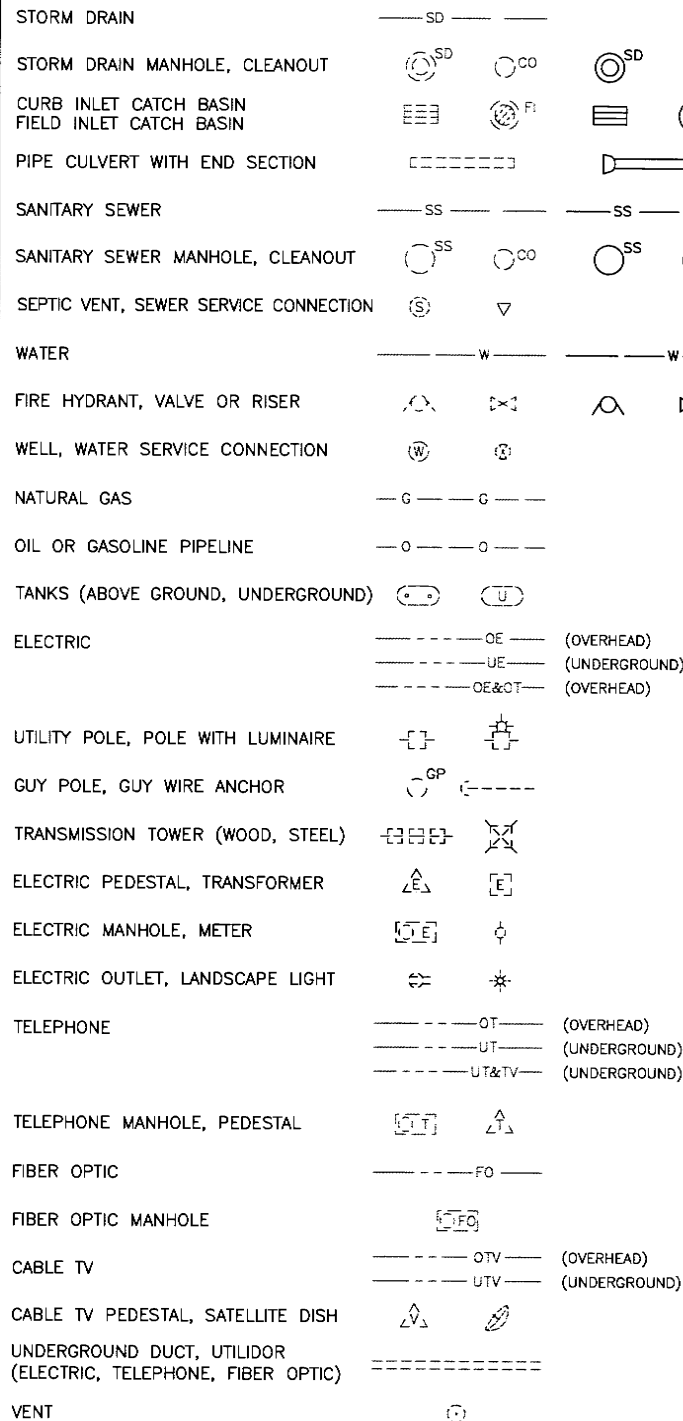
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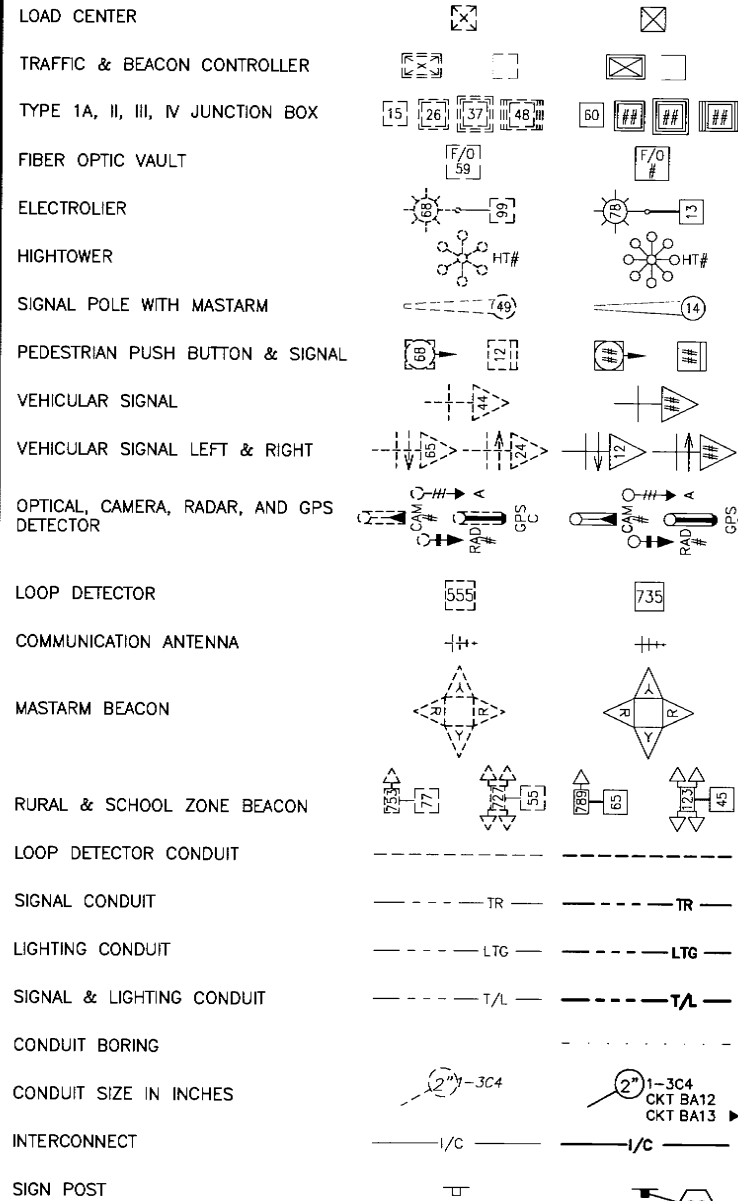
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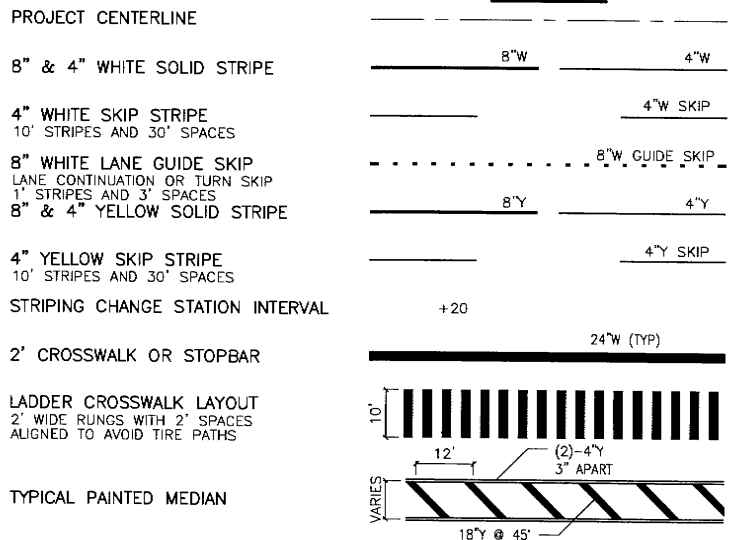
EXISTING

PROPOSED



PAVEMENT MARKINGS

PROPOSED

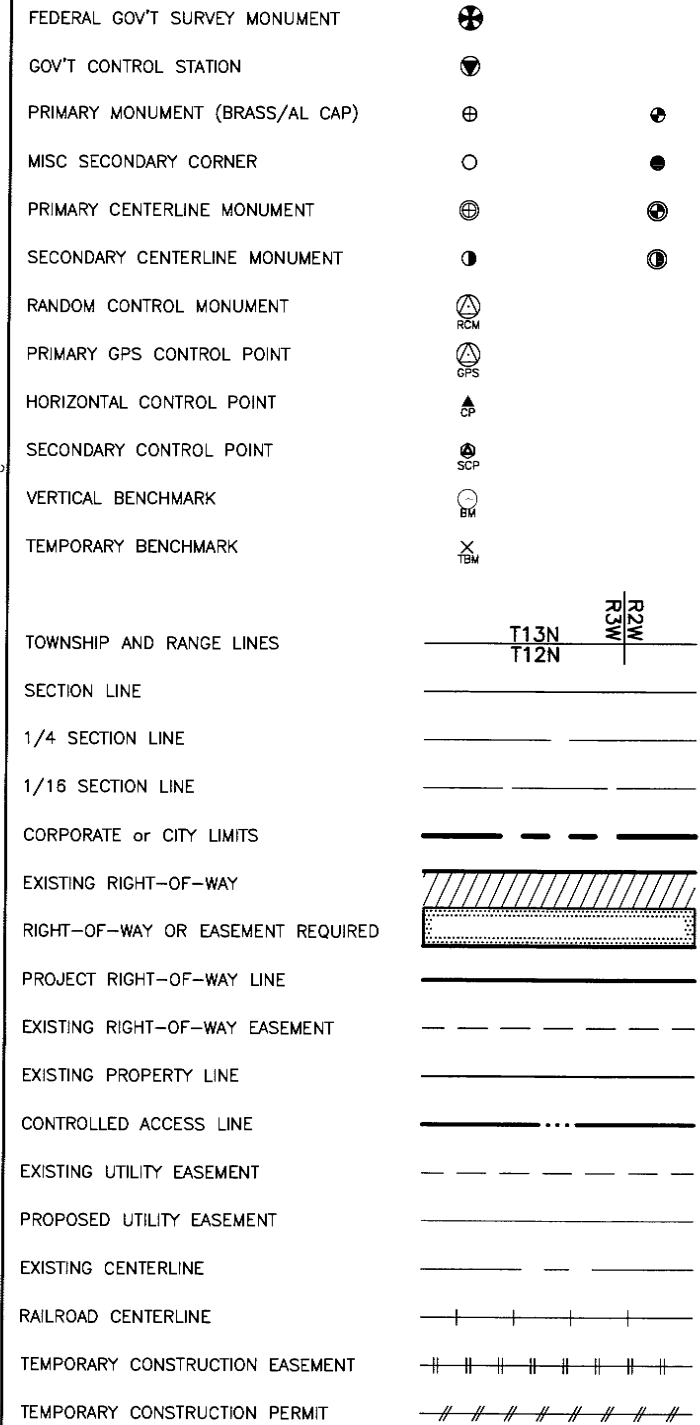


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	A3	A4

RIGHT-OF-WAY

RECOVERED

SET THIS PROJECT

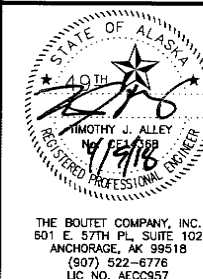
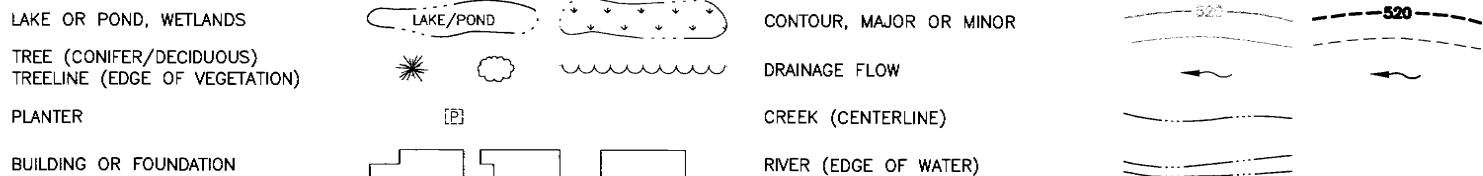


TOPOGRAPHY

EXISTING

EXISTING

PROPOSED

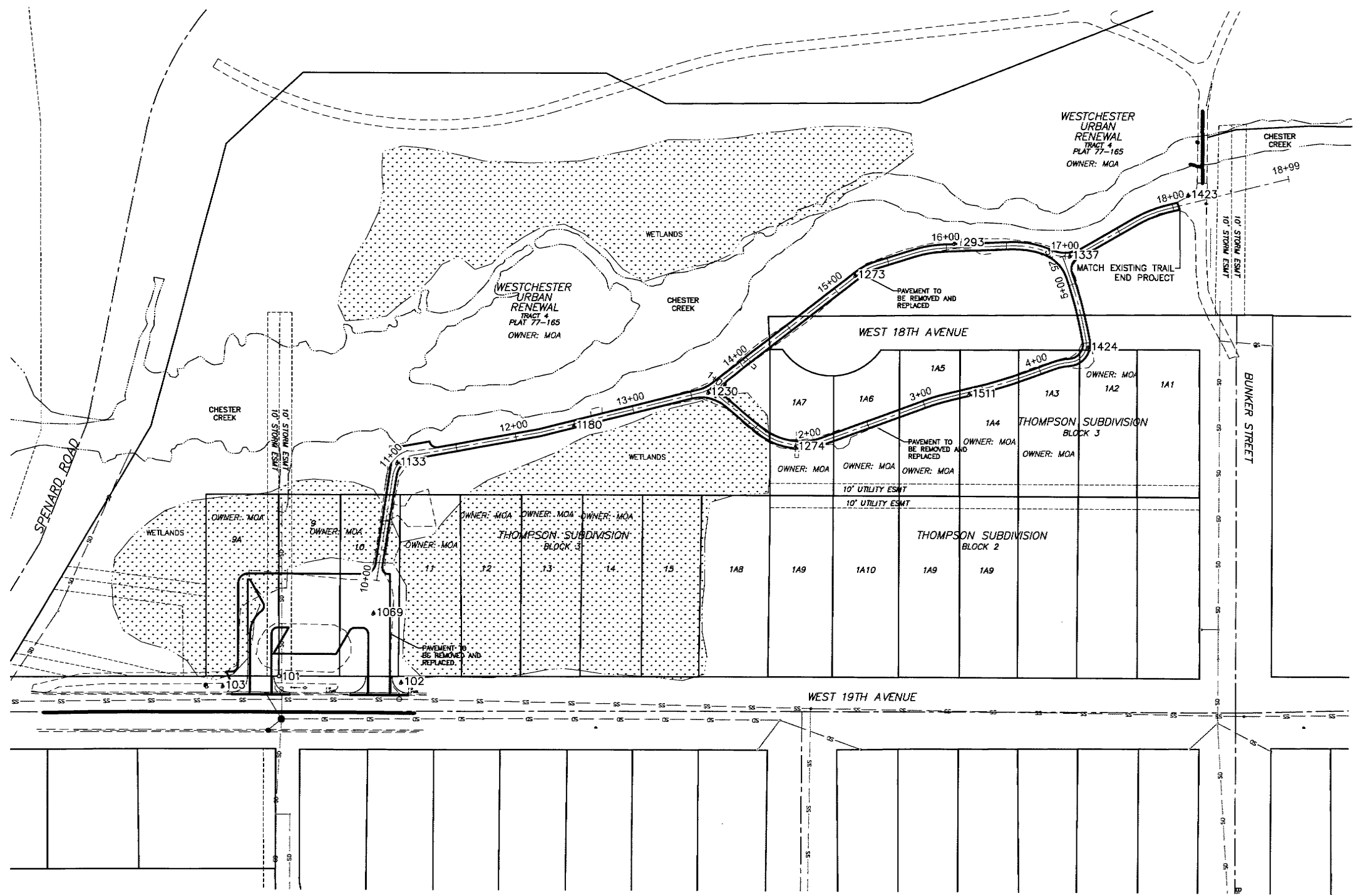


STATE OF ALASKA
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NATURE TRAIL REHABILITATION**

LEGEND SHEET

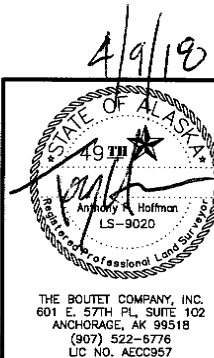
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BOARDWALK
ACAD
WESTCHESTER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	A4	A4



SURVEY CONTROL				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
101	2631810.26	1657287.22	18.94	REBAR
102	2631806.59	1657388.57	18.93	MAGSPIKE
103	2631803.06	1657240.23	18.78	MAGSPIKE
1069	2631863.90	1657365.65	19.13	CP-MAGSPIKE
1133	2631989.05	1657384.97	18.26	CP-MAGNAIL-3IN
1180	2632019.83	1657531.06	18.69	CP-MAGNAIL-3IN
1230	2632048.08	1657643.13	19.77	CP-MAGNAIL-3IN
1273	2632145.71	1657765.79	23.40	CP-MAGNAIL-3IN
1274	2632003.18	1657716.18	19.76	CP-MAGNAIL-3IN
1293	2632172.88	1657848.12	21.89	CP-MAGNAIL-3IN
1337	2632162.83	1657944.02	20.17	CP-MAGNAIL-3IN
1423	2632213.80	1658042.97	22.83	CP-MAGNAIL-6IN
1424	2632086.80	1657959.73	20.12	CP-MAGNAIL-3IN
1511	2632047.54	1657860.96	20.36	CP-MAGNAIL-3IN

- SURVEY NOTES:
1. A title search was not performed. Easements of record other than those shown on the recorded plats are not shown hereon.
 2. The Basis of Bearings and coordinates is NAD83(2011) (EPOCH 2010) Alaska State Plane Zone 4 grid from GPS observations to operating real time control networks (see note 7).
 3. Coordinates are NAD83(2011) (EPOCH 2010) Alaska State Plane Zone 4, expressed in U.S. Survey Feet.
 4. To convert from NAD83(2011) (EPOCH 2010) Alaska State Plane Zone 4 coordinates to Anchorage Bowl 2000 coordinates: Scale using 1.0001089927 and Translate using -2,296,868.6878 N, -1,312,517.4904 E.
 5. Elevations are expressed in GAAB Datum, NGS 1972 Adjustment.
 6. Property lines, imagery and other information are per MOA GIS data; www.muni.org/Departments/OCPO/GIS2/Pages/MOAGISData.aspx. Subdivision Plats and other recorded data should be referred to before construction activities begin.
 7. Refer to civil plans for alignment data.

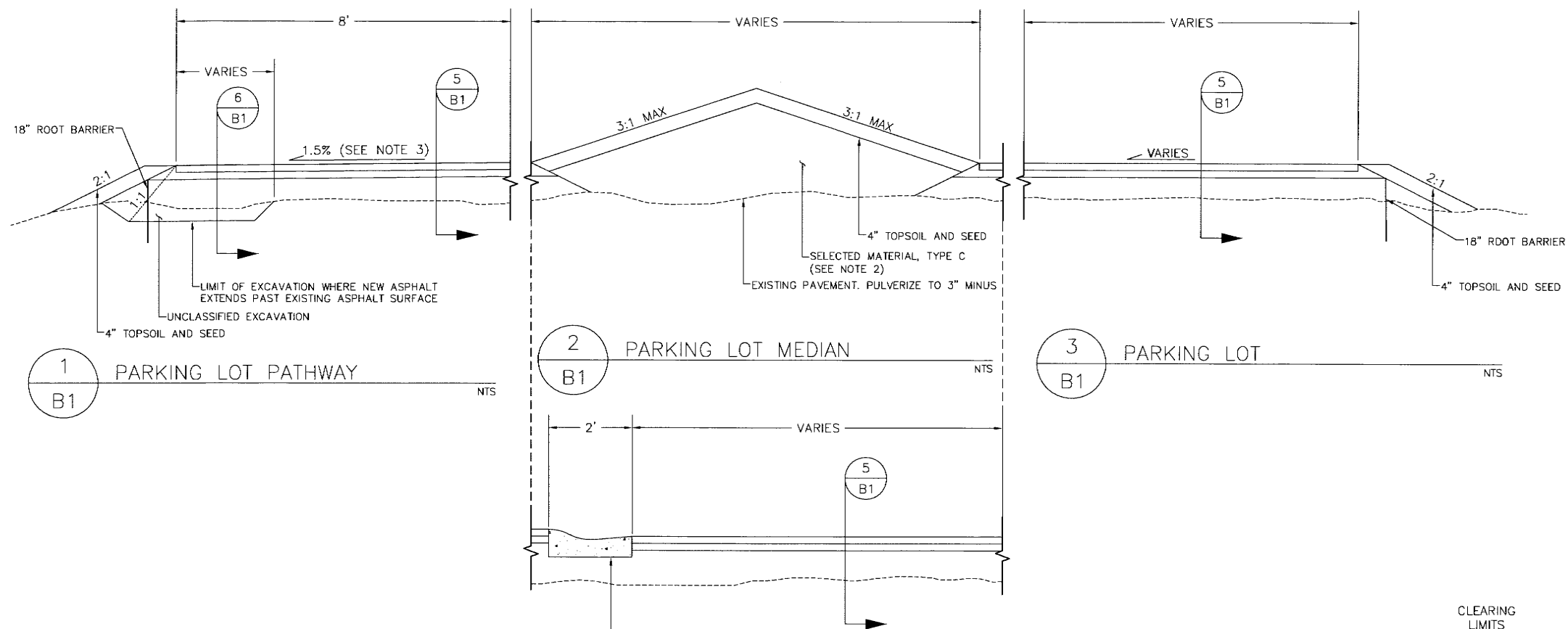


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**ROW MAP &
SURVEY CONTROL DIAGRAM**

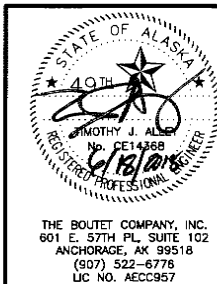
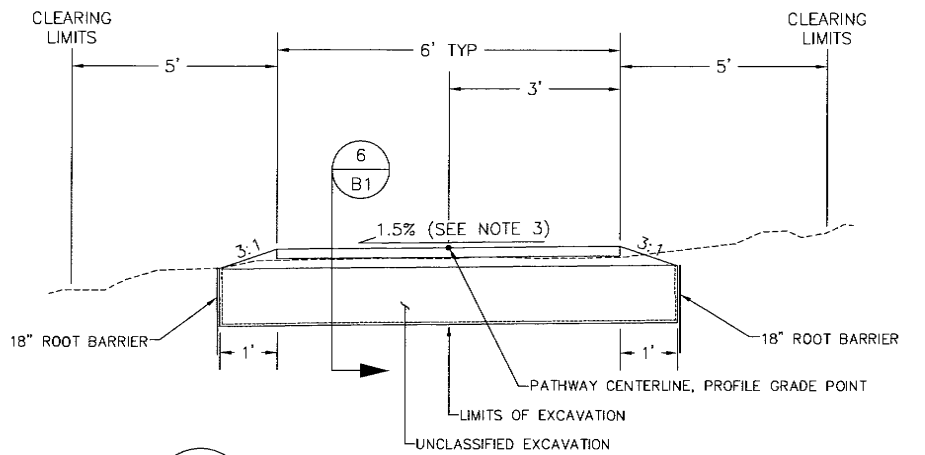
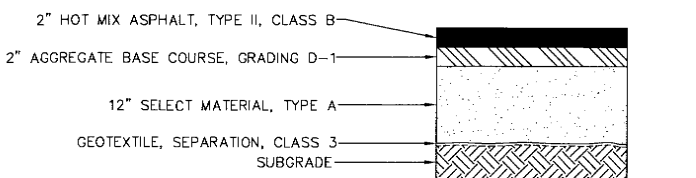
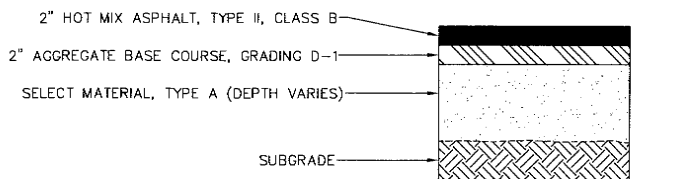
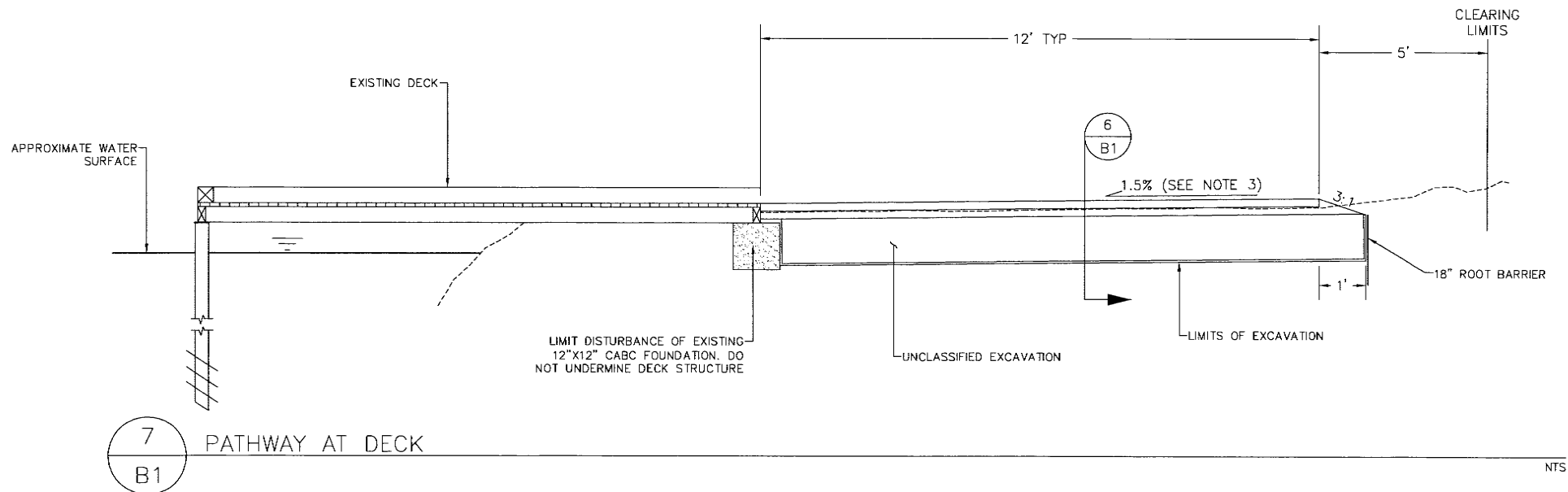
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	B1	B1



SHEET NOTES:

- ALL DISTURBED SLOPES SHALL BE STABILIZED WITH 4" TOPSOIL AND SEED
- CONSTRUCT LANDSCAPING BERMS WITH EXCESS MATERIAL EXCAVATED FROM THE PROJECT LIMITS.
- PATHWAY AND TRAIL CROSS SLOPE SHALL BE A MINIMUM OF 1% AND SHALL NOT EXCEED 2%



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NATURE TRAIL REHABILITATION**

TYPICAL SECTIONS

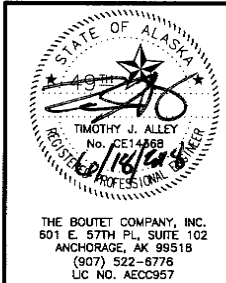
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	C1	C1

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DISCRPTION	PAY UNIT	TOTAL QUANTITY
201(3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQ'D
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQ'D
202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	2,230
203(3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	635
203(6)	BORROW	TON	1,355
203(9)	OBLITERATION OF ROADWAY	SQUARE YARD	150
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	250
401(1)	HMA, TYPE II, CLASS B	TON	115
401(4)	ASPHALT BINDER, GRADE PG 52-28	TON	6
401(15)	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D
604(13B)	REMOVE AND REPLACE STORM DRAIN INLET FRAME AND GRATE	EACH	1
606(17A)	WOOD BOLLARD - FIXED	EACH	2
606(17B)	STEEL BOLLARD - REMOVABLE	EACH	1
607(5)	DRIVE GATE	EACH	2
608(7)	ASPHALT PATHWAY	TON	118
609(2)	CURB AND GUTTER, TYPE I	LINEAR FOOT	195
609(7)	CONCRETE PARKING BUMPER	EACH	14
615(1)	STANDARD SIGN	SQUARE FOOT	57
618(2)	SEEDING	POUND	45
620(1)	TOPSOIL	SQUARE YARD	1,645

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DISCRPTION	PAY UNIT	TOTAL QUANTITY
621(10)	LANDSCAPING	LUMP SUM	ALL REQ'D
621(11)	ROOT BARRIER	LINEAR FOOT	2,675
630(1)	GEOTEXTILE, SEPARATION, CLASS 3	SQUARE YARD	1,565
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQ'D
641(1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQ'D
641(2)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQ'D
641(6)	WITHHOLDING	CONTINGENT SUM	ALL REQ'D
641(7)	SWPPP MANAGER	LUMP SUM	ALL REQ'D
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQ'D
642(3)	THREE PERSON SURVEY PARTY	HOURL	25
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQ'D
643(15A)	FLAGGING	CONTINGENT SUM	ALL REQ'D
643(23)	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQ'D
646(1)	CPM SCHEDULING	LUMP SUM	ALL REQ'D
647(5)	BACKHOE, 4WD, 1 CY BUCKET, 75 HP MIN, 15 FT DEPTH	CONTINGENT SUM	ALL REQ'D
660(3)	LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQ'D
661(2)	LOAD CENTER, TYPE 1A	EACH	1
670(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQ'D

TABLE OF ESTIMATING FACTORS		
ITEM NO.	ITEM DISCRPTION	ESTIMATING FACTOR
203(6)	BORROW	144 LB/CF
301(1)	AGGREGATE BASE COURSE, GRADING D-1	144 LB/CF
401(1)	HMA, TYPE II, CLASS B	151 LB/CF
401(4)	ASPHALT BINDER, GRADE PG 52-28	5.3% WEIGHT OF HMA
608(7)	ASPHALT PATHWAY	151 LB/CF



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ESTIMATE OF QUANTITIES

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202(1)

REMOVAL OF STRUCTURES AND OBSTRUCTIONS SUMMARY					
SHEET	DESCRIPTION	NORTHING	EASTING	QUANTITY	NOTES
F1	SIGN ASSEMBLY	2631899.75	1657380.19	1 EA	REMOVE ALL SIGNS, POST AND FOUNDATION
F1	TIMBER CURB	2631853.07	1657304.60	370 LF	REMOVE ALL TIMBER CURB FROM PROJECT LIMITS
F1	CURB & GUTTER	2631796.96	1657247.89	48 LF	
F1	CURB & GUTTER	2631796.71	1657346.25	48 LF	
F1	REMOVABLE STEEL BOLLARD	2631892.15	1657366.86	1 EA	
F1	REMOVABLE STEEL BOLLARD	2631891.61	1657371.36	1 EA	
F1	BEAR SAVER TRASH CAN	2631887.31	1657377.39	1 EA	SALVAGE AND REINSTALL PER SHEET F2
F1	WOOD BOLLARD	2631835.97	1657382.93	1 EA	
F1	WOOD BOLLARD	2631836.36	1657343.99	1 EA	
F1	WOOD BOLLARD	2631844.60	1657250.56	1 EA	
F1	WOOD BOLLARD	2631828.86	1657268.30	1 EA	
F1	GATE AND BOLLARD	2631831.14	1657252.61	1 EA	
F1	GATE AND BOLLARD	2631820.95	1657347.47	1 EA	
F1	GATE AND BOLLARD	2631819.90	1657379.06	1 EA	
F3	6" STEEL PILES	2632038.47	1657548.22	6 EA	
F4	BENCH AND FOUNDATION	2632164.30	1657874.44	1 EA	
F5	BENCH AND FOUNDATION	2632072.99	1657961.76	1 EA	
F5	BENCH AND FOUNDATION	2632002.72	1657755.40	1 EA	

* ALL NORTHINGS, EASTINGS AND LENGTHS ARE APPROXIMATE

604(13B)

REMOVE AND REPLACE INLET FRAME AND GRATE				
SHEET	ID	NORTHING	EASTING	QUANTITY
F2	INLET-1	2631796.87	1657276.81	1 EA

606(17A) & 606(17B)

BOLLARDS				
SHEET	BOLLARD TYPE	STATION	OFFSET	QUANTITY
F3	STEEL - REMOVABLE	10+10.38	ℓ	1 EA
F3	WOOD - FIXED	10+10.38	5.00' L	1 EA
F3	WOOD - FIXED	10+10.38	5.00' R	1 EA
			TOTAL 606(17A) =	2 EA
			TOTAL 606(17B) =	1 EA

607(5)

DRIVE GATE SUMMARY				
SHEET	NORTHING	EASTING	DESCRIPTION	QUANTITY
F2	2631820.67	1657359.79	TIE BACK	1 GATE ASSEMBLY
F2	2631820.67	1657380.75	TIE BACK	
F2	2631811.67	1657380.75	GATE POST	
F2	2631811.67	1657359.75	GATE POST	
F2	2631820.81	1657260.39	TIE BACK	1 GATE ASSEMBLY
F2	2631820.81	1657281.39	TIE BACK	
F2	2631811.81	1657281.39	GATE POST	
F2	2631811.81	1657260.39	GATE POST	
			TOTAL =	2 EA

630(1)

GEOTEXTILE, SEPARATION, CLASS 3						
SHEET	ALIGNMENT	STATION	TO	STATION	AREA (SF)	QUANTITY (SY)
F3	"WLNT"	10+13	TO	11+00	1,125	125
F3	"WLNT"	11+00	TO	12+00	1,315	146
F3	"WLNT"	12+00	TO	13+00	1,089	121
F3	"WLNT"	13+00	TO	14+00	1,089	121
F3	"WLNT"	14+00	TO	14+50	544	60
F4	"WLNT"	14+50	TO	15+00	544	60
F4	"WLNT"	15+00	TO	16+00	1,089	121
F4	"WLNT"	16+00	TO	17+00	1,160	129
F4	"WLNT"	17+00	TO	18+05	1,140	127
F5	"SL"	1+03	TO	2+00	1,111	123
F5	"SL"	2+00	TO	3+00	1,226	136
F5	"SL"	3+00	TO	4+00	1,089	121
F5	"SL"	4+00	TO	5+25	1,573	175
					TOTAL (SY) =	1565

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	D1	D1

609(2)

CURB AND GUTTER SUMMARY							
SHEET	NORTHING	EASTING	TO	NORTHING	EASTING	LENGTH (LF)	TYPE
F2	2631796.46	1657247.89	TO	2631796.31	1657295.85	47.96	4" ROLLED
F2	2631845.58	1657261.39	TO	2631796.42	1657261.24	53.87	4" ROLLED
F2	2631809.81	1657282.39	TO	2631796.35	1657282.42	13.46	4" ROLLED
F2	2631796.21	1657346.25	TO	2631796.17	1657394.24	52.71	4" ROLLED
F2	2631809.71	1657359.75	TO	2631796.20	1657359.74	13.51	4" ROLLED
F2	2631809.67	1657380.75	TO	2631796.18	1657380.74	13.49	4" ROLLED
TOTAL =						195	

* SEE DETAIL 2 SHEET E1 FOR MEASUREMENT OF CURB AND GUTTER AT DRIVEWAYS

609(7)

CONCRETE PARKING BUMPER SUMMARY			
SHEET	NORTHING	EASTING	QUANTITY
H9	2631887.37	1657352.81	1 EA
H9	2631887.37	1657342.41	1 EA
H9	2631887.37	1657332.02	1 EA
H9	2631887.37	1657321.63	1 EA
H9	2631887.37	1657311.24	1 EA
H9	2631887.37	1657300.84	1 EA
H9	2631887.37	1657290.45	1 EA
H9	2631887.37	1657280.06	1 EA
H9	2631887.37	1657269.67	1 EA
H9	2631831.86	1657331.07	1 EA
H9	2631831.78	1657320.67	1 EA
H9	2631831.86	1657310.28	1 EA
H9	2631831.78	1657299.89	1 EA
H9	2631831.78	1657289.50	1 EA
		TOTAL =	14 EA

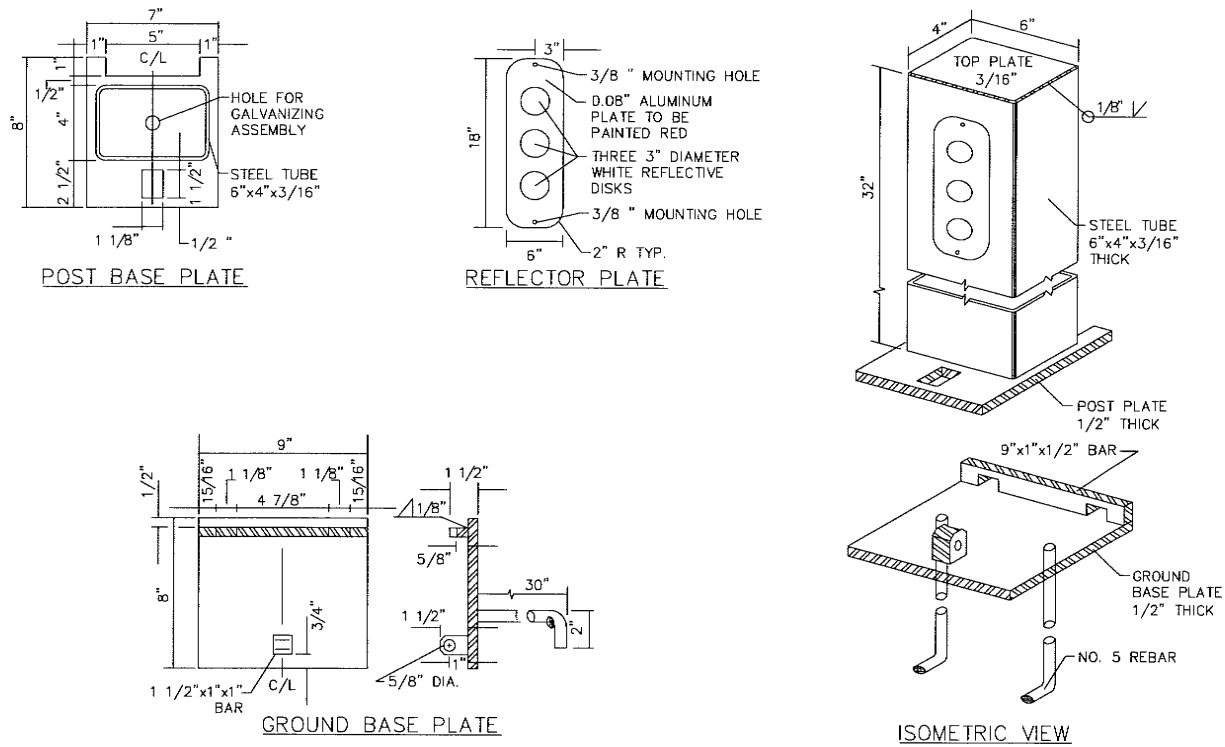


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION**

SUMMARY TABLES

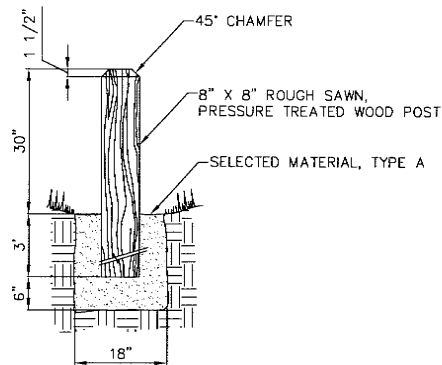
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	E1	E2

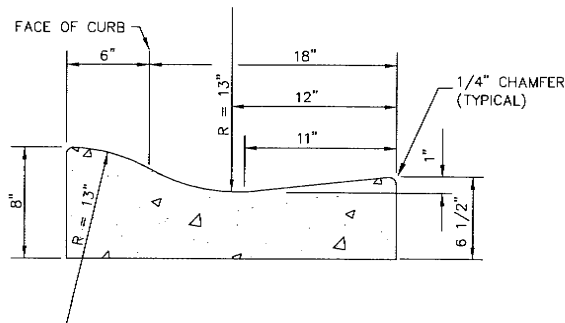


- NOTES:
1. ALL WELDS, UNLESS OTHERWISE SHOWN, SHALL BE THREE-SIXTEENTH INCH (3/16") FILLET - ALL AROUND.
 2. CAST IN PLACE WITH CLASS 'A' CONCRETE IN A TWELVE INCH DIAMETER BY THIRTY SIX INCH (12" X 36") FOUNDATION TUBE.
 3. REMOVABLE BOLLARDS ARE TO HAVE ADHESIVE REFLECTORS ON BOTH FRONT AND BACK OF POST.
 4. ALL EXTERIOR CORNERS AND EDGES SHALL BE ROUNDED TO PROVIDE A PROJECTION FREE SURFACE.

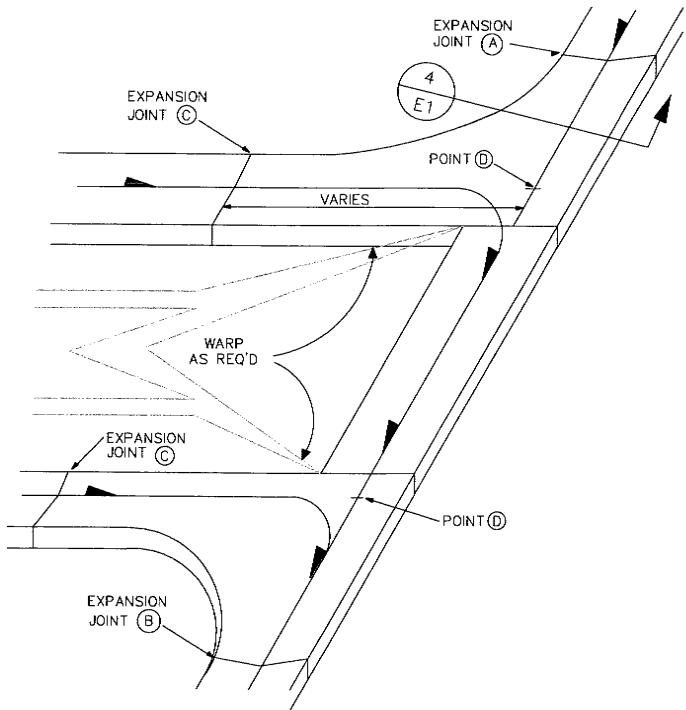
1 REMOVABLE STEEL BOLLARD
E1 NTS



3 WOOD BOLLARD
E1 NTS

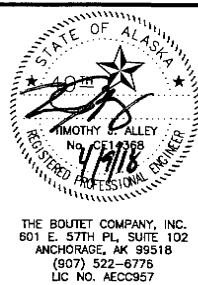


4 4" ROLLED CURB AND GUTTER
E1 NTS



NOTE:
MEASURE LENGTHS FOR PAYMENT ALONG THE STRAIGHT FLOW LINE FROM EXPANSION JOINTS "A" TO "B" AND ON BOTH SIDES FROM EXPANSION JOINT "C" TO THE POINT "D".

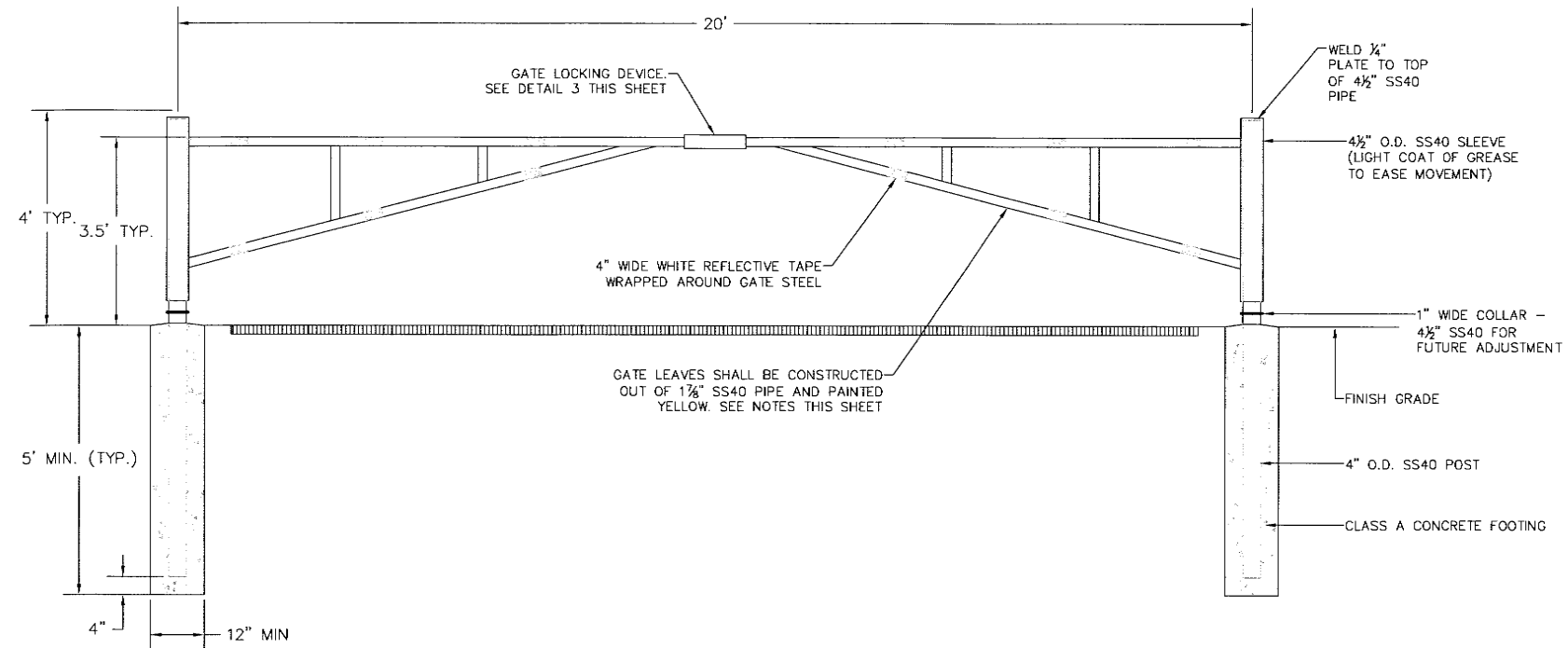
2 CURB & GUTTER AT DRIVEWAYS
E1 NTS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION**

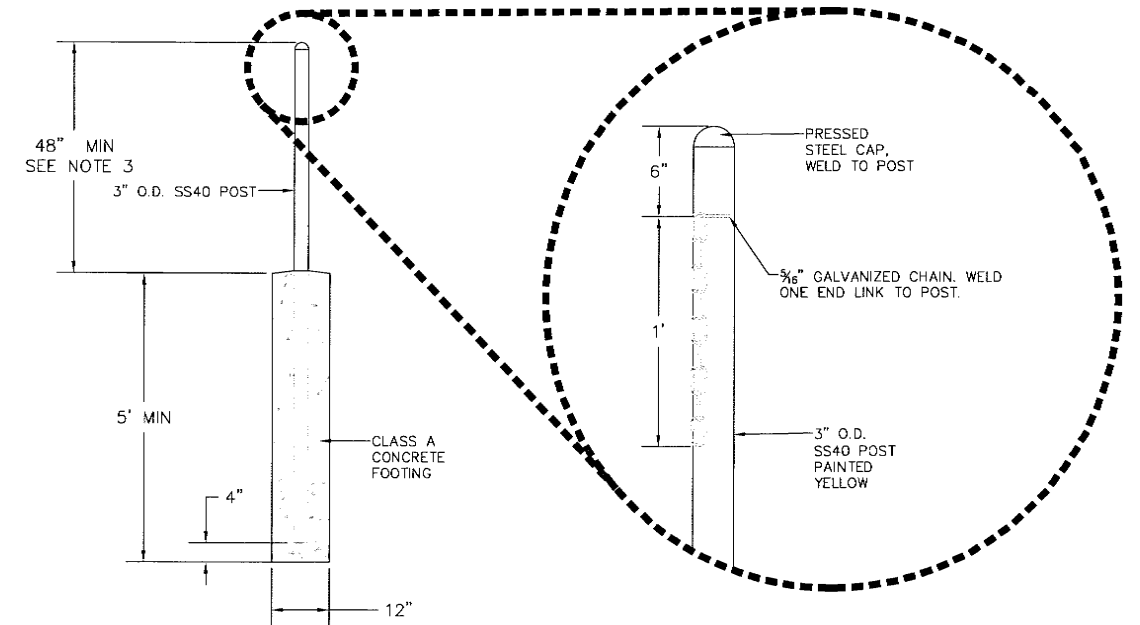
DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	E2	E2



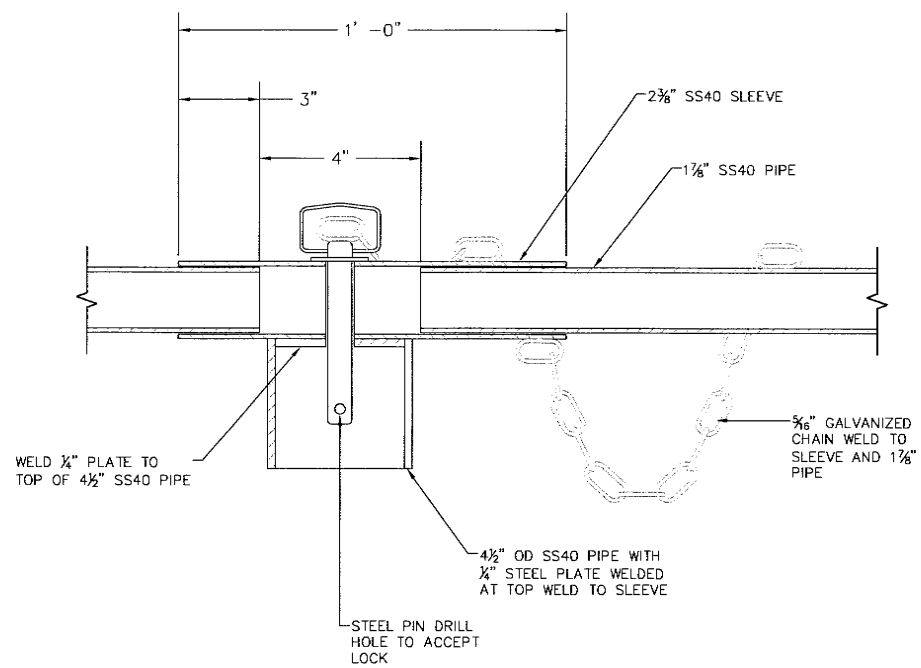
1 ACCESS CONTROL GATE
E2

NTS



2 GATE TIE-BACK POST
E2

NTS



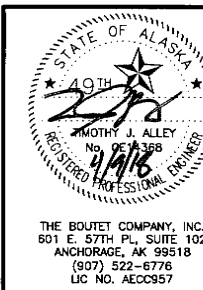
3
E2

GATE LOCKING DEVICE

NTS

NOTES:

1. ALL STEEL SHALL BE GALVANIZED
2. SS = STRUCTURAL STEEL
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.
4. ALL CONCRETE SHALL BE CLASS A.
5. ALL EXPOSED COMPONENTS SHALL BE PAINTED SAFETY YELLOW.



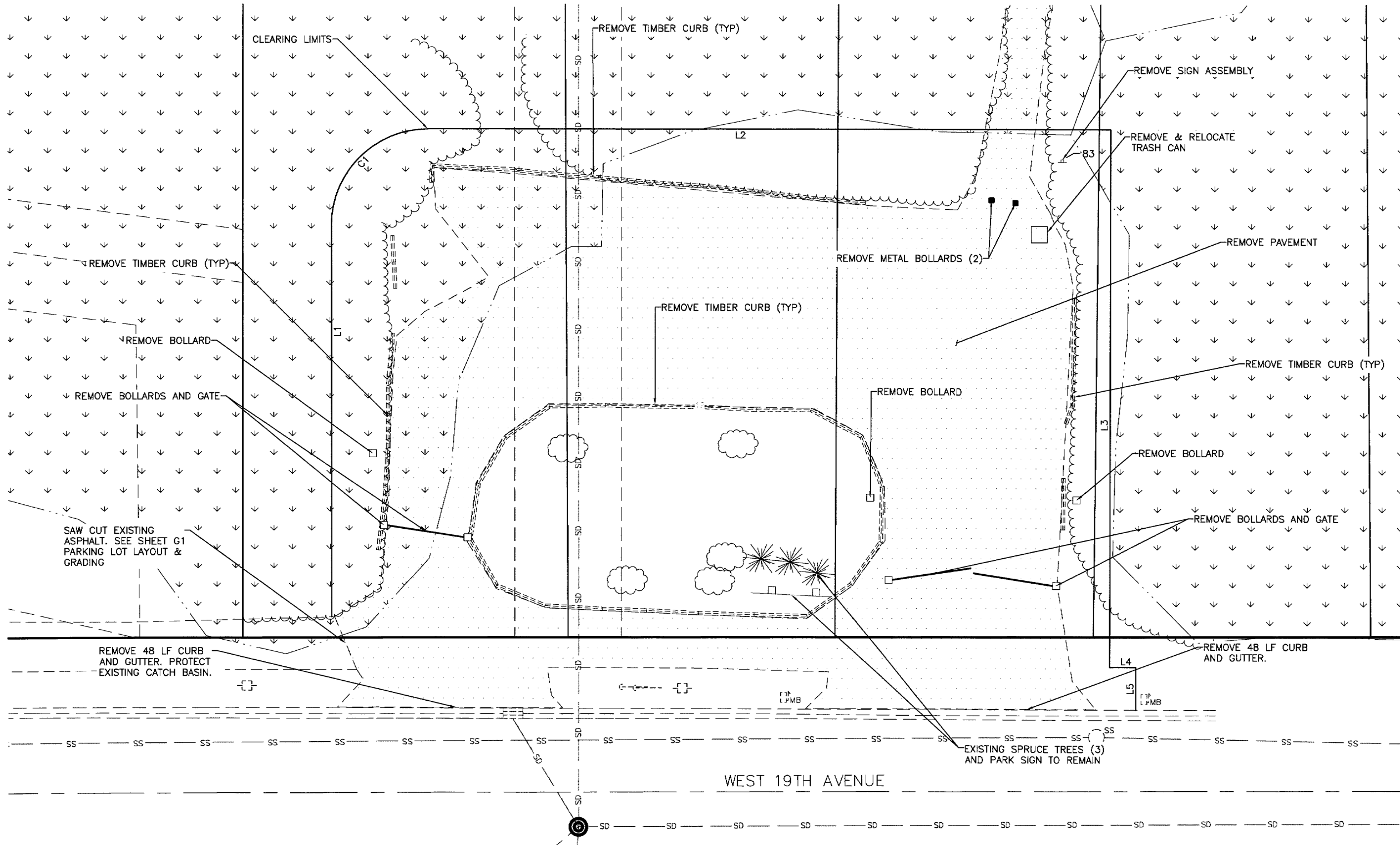
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**AMATS: WESTCHESTER LAKE
NATURE TRAIL REHABILITATION**

GATE DETAILS

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	F1	F5



CLEARING LIMITS LINE TABLE

LINE #	BEGIN NORTHING	BEGIN EASTING	LENGTH	BEARING
L1	2631887.41	1657242.89	73.44	S0° 00' 00"E
L2	2631905.41	1657389.25	128.35	N90° 00' 00"W
L3	2631804.67	1657389.25	100.74	N0° 00' 00"W
L4	2631804.67	1657389.25	5.00	N90° 00' 00"E
L5	2631796.67	1657394.24	8.00	N0° 00' 00"E

CLEARING LIMITS CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA
C1	28.27	18.00	90.00

CLEARING NOTES:

- CLEARING LIMITS ALONG PATHWAY SHALL BE 5' FROM EDGE OF PATHWAY AS SHOWN ON SHEET B1.
- CLEAR ALL TREES WITHIN THE CLEARING LIMITS EXCEPT THREE (3) CONIFER (SPRUCE) TREES NEAR THE WOODEN PARK SIGN. CONTRACTOR SHALL TAKE CARE TO PROTECT THESE TREES AND SIGN.
- CLEARING LIMITS EXTEND BEYOND THE GRUBBING/EXCAVATION LIMITS. CONTRACTOR SHALL TAKE CARE NOT TO DISTURB EXISTING VEGETATIVE MAT OUTSIDE OF THE GRUBBING/EXCAVATION LIMITS

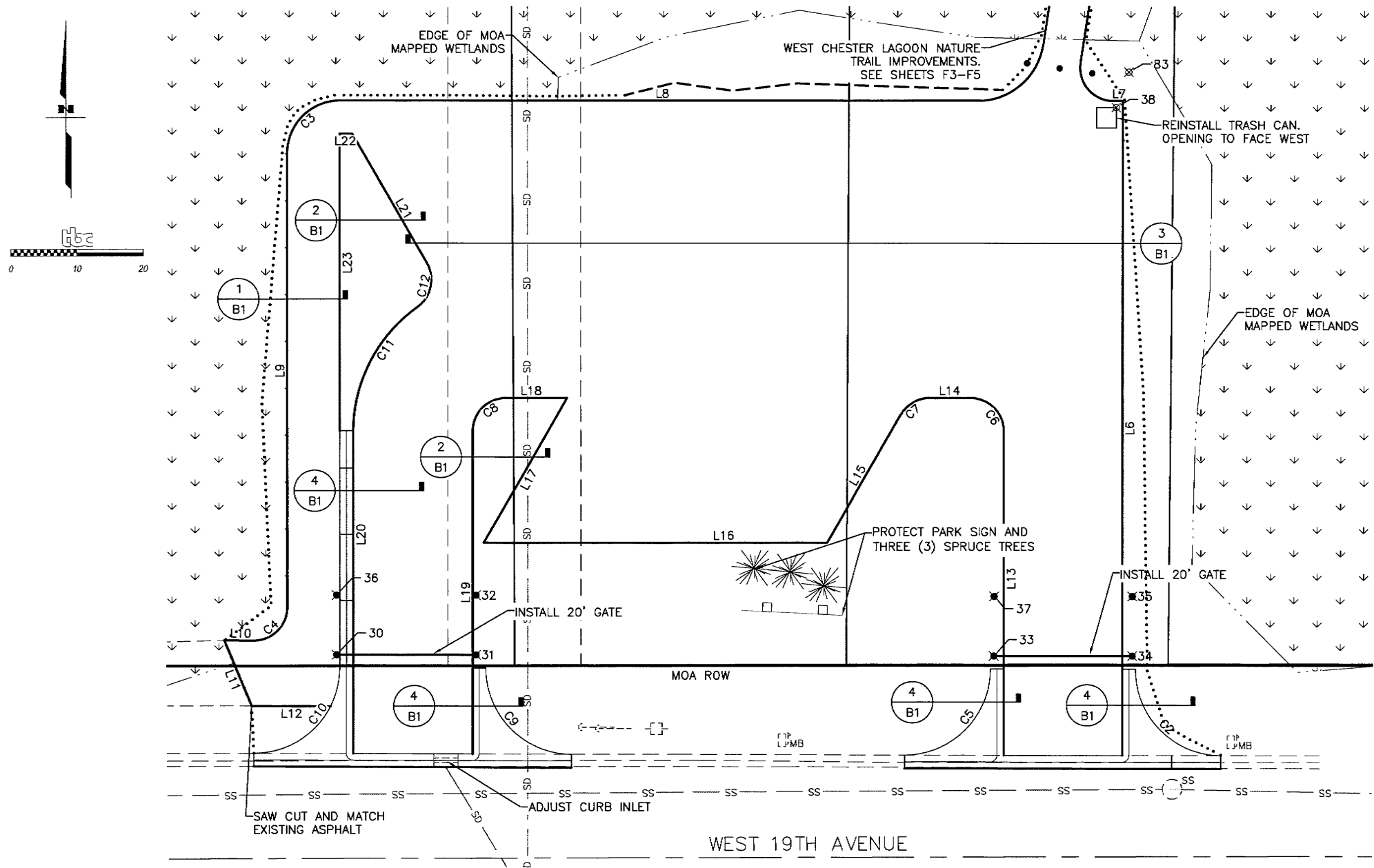


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STATE OF ALASKA
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AND PUBLIC FACILITIES
**AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION**

**PARKING LOT
DEMOLITION PLAN**

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	F2	F5



LAYOUT LINE TABLE

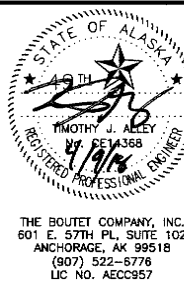
LINE #	LENGTH	BEARING
L6	98.73	S0° 00' 00"E
L7	1.49	N90° 00' 00"E
L8	96.38	N90° 00' 00"E
L9	68.44	N0° 00' 00"E
L10	4.44	S89° 48' 26"E
L11	10.73	N22° 40' 08"W
L12	11.90	N89° 46' 33"W
L13	48.88	S0° 00' 00"E
L14	6.25	N90° 00' 00"E
L15	22.32	N30° 00' 00"E
L16	51.96	N90° 00' 00"E
L17	25.21	S30° 00' 00"W
L18	9.26	N90° 00' 00"E
L19	48.72	N0° 00' 00"W
L20	48.67	S0° 00' 00"E
L21	22.54	S30° 00' 00"E
L22	1.82	N90° 00' 00"W
L23	44.83	S0° 00' 00"E

LAYOUT CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA
C2	20.42	13.00	89.98
C3	12.57	8.00	90.00
C4	7.87	5.00	90.19
C5	20.42	13.00	90.00
C6	7.85	5.00	90.00
C7	5.24	5.00	60.00
C8	7.85	5.00	90.00
C9	20.38	13.00	89.82
C10	20.42	13.00	90.00
C11	21.90	23.00	54.56

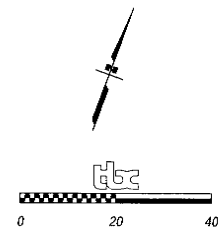
LAYOUT POINT TABLE

POINT #	NORTHING	EASTING	DESCRIPTION
30	2631811.81	1657260.39	GATE POST
31	2631811.81	1657281.39	GATE POST
32	2631820.81	1657281.39	TIE BACK
33	2631811.67	1657359.75	GATE POST
34	2631811.67	1657380.75	GATE POST
35	2631820.67	1657380.75	TIE BACK
36	2631820.81	1657260.39	TIE BACK
37	2631820.67	1657359.79	TIE BACK
38	2631894.41	1657378.25	TRASH CAN



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION**

PARKING LOT LAYOUT



SHEET NO.		TOTAL SHEETS	
F3		F5	
STATE		YEAR	
ALASKA		2018	
PROJECT DESIGNATION			
TA18001 / CFHWY00166			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			

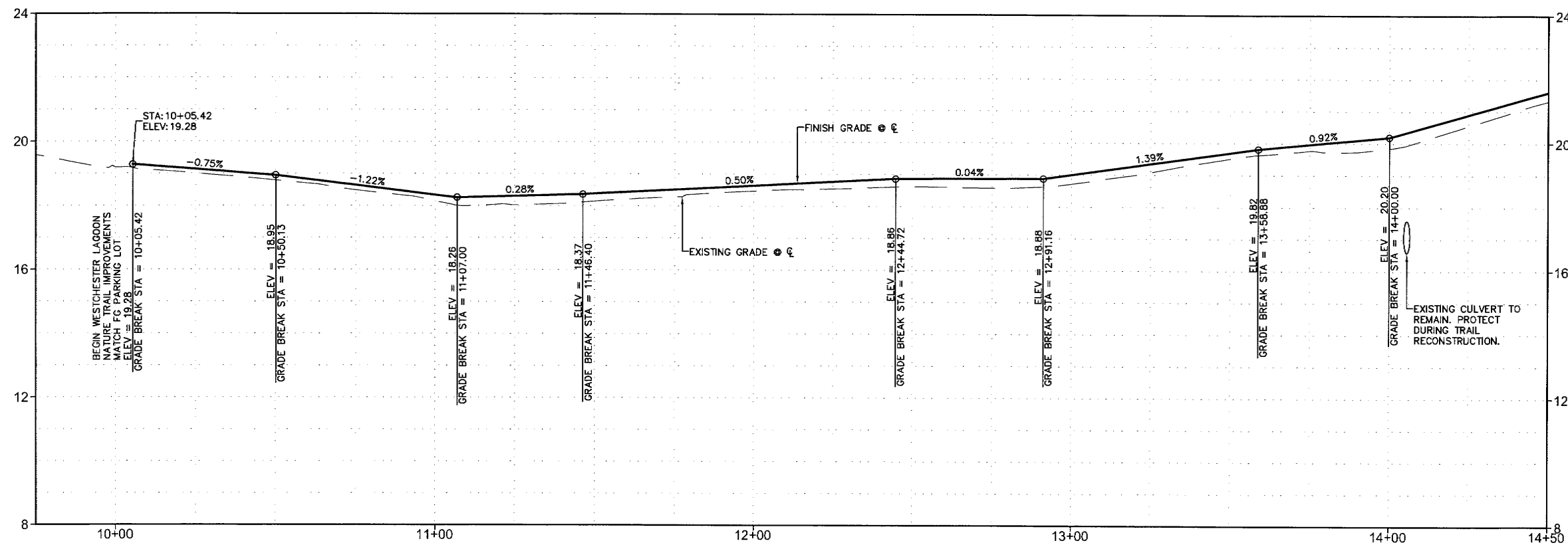


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

AMATS: WESTCHESTER
LAGOON NATURE TRAIL
REHABILITATION

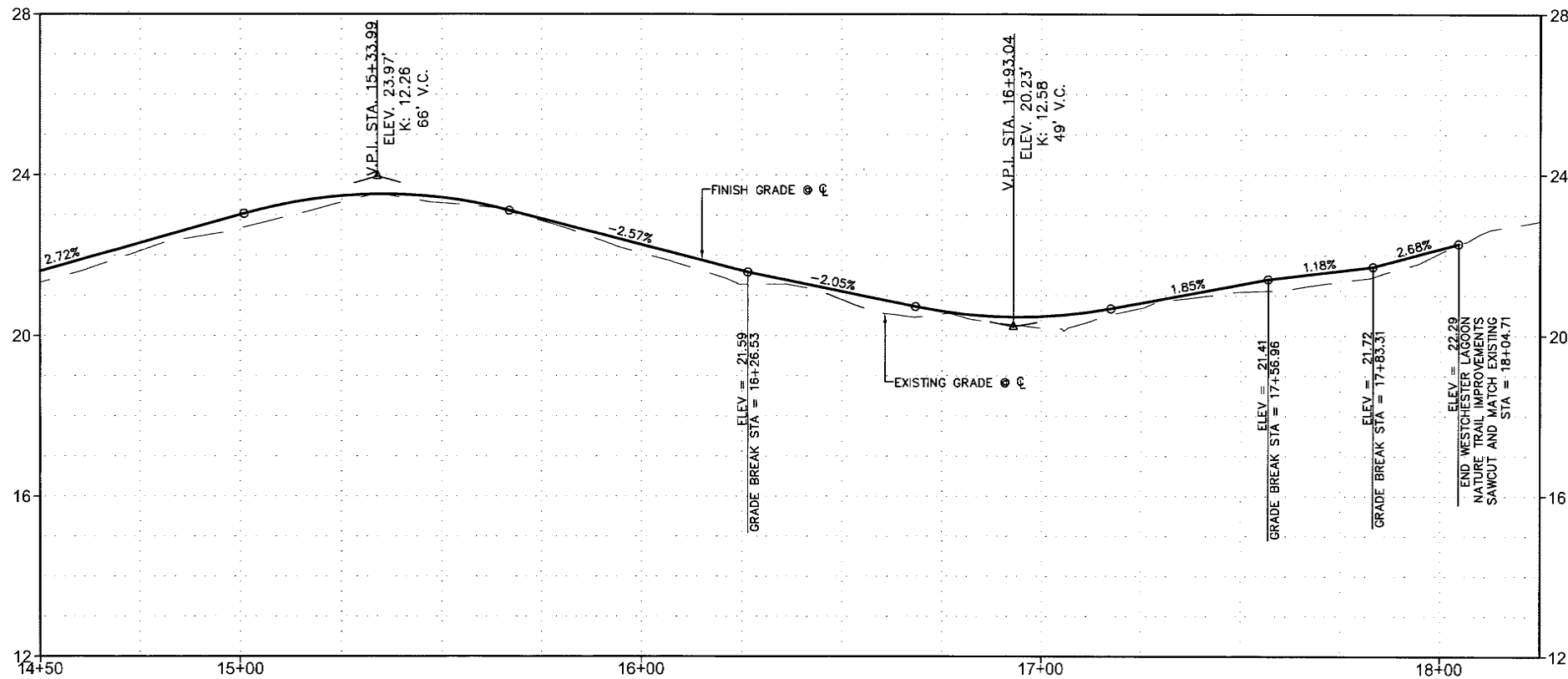
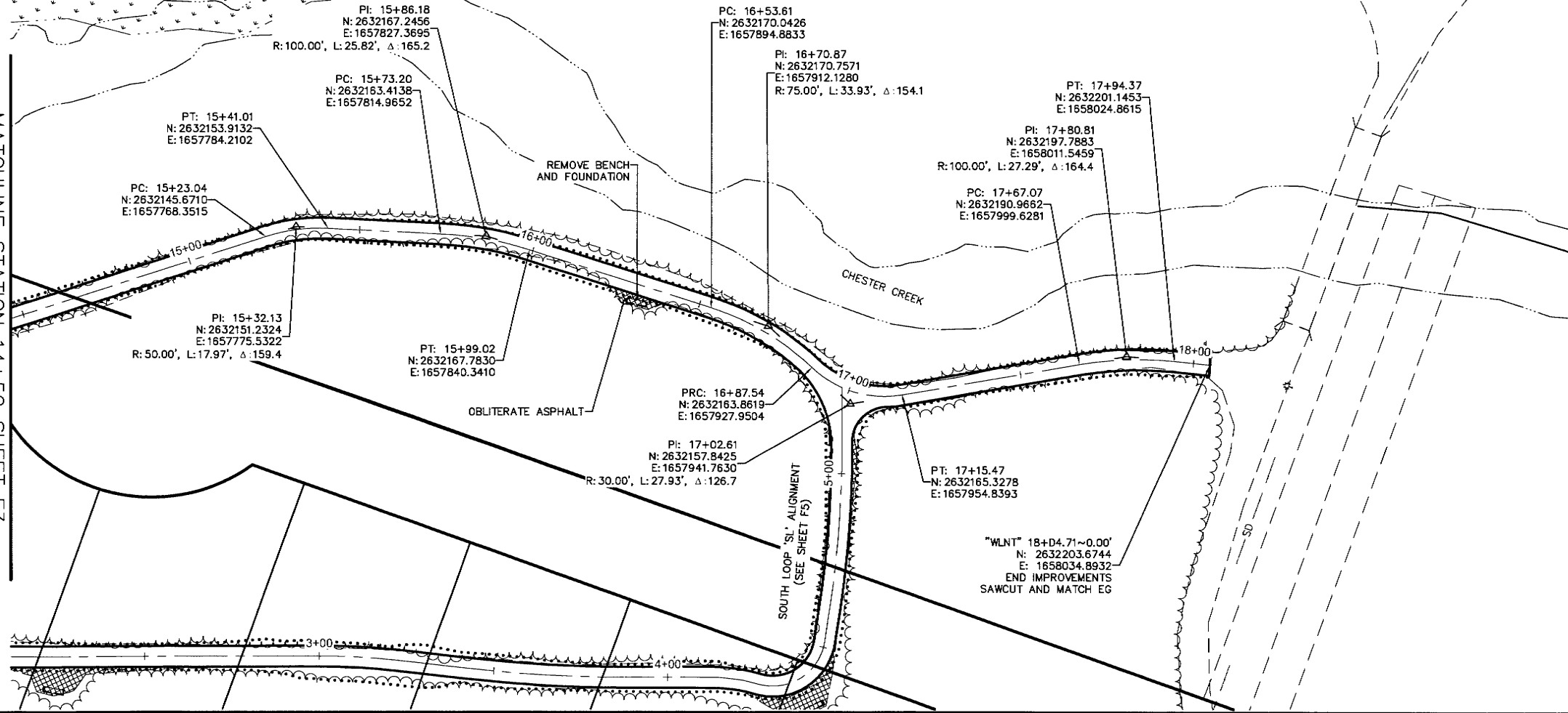
PLAN & PROFILE

"WLNT" 10+00(SOP) TO 14+50

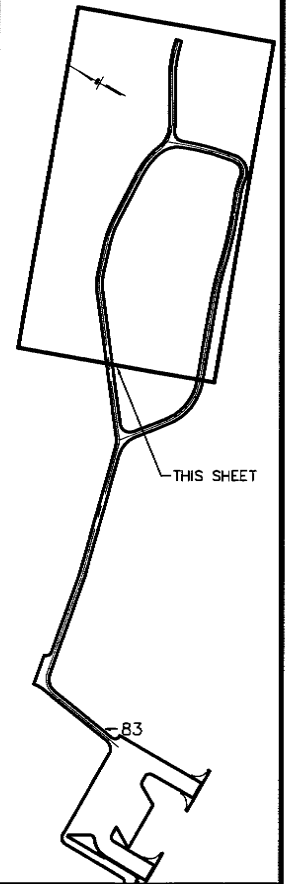


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MATCHLINE STATION 14+50 SHEET F3



SHEET NO.	TOTAL SHEETS
F4	F5
STATE	YEAR
ALASKA	2018
PROJECT DESIGNATION	
TA18001 / CFHWY00166	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

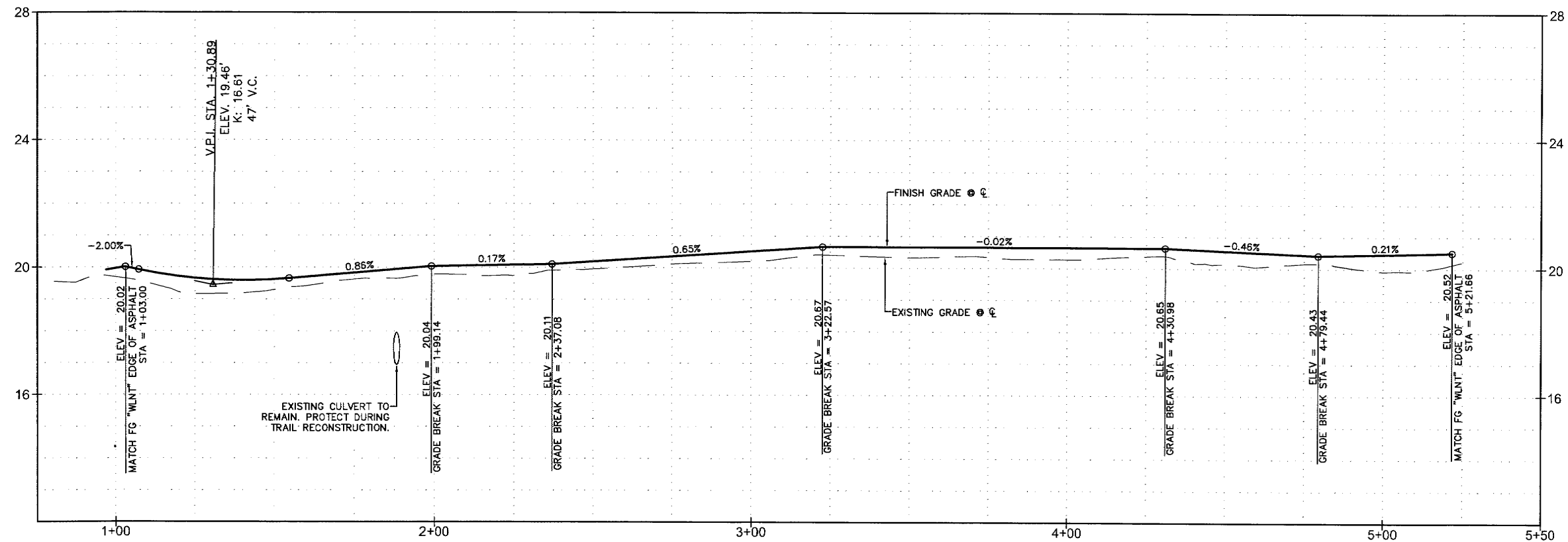
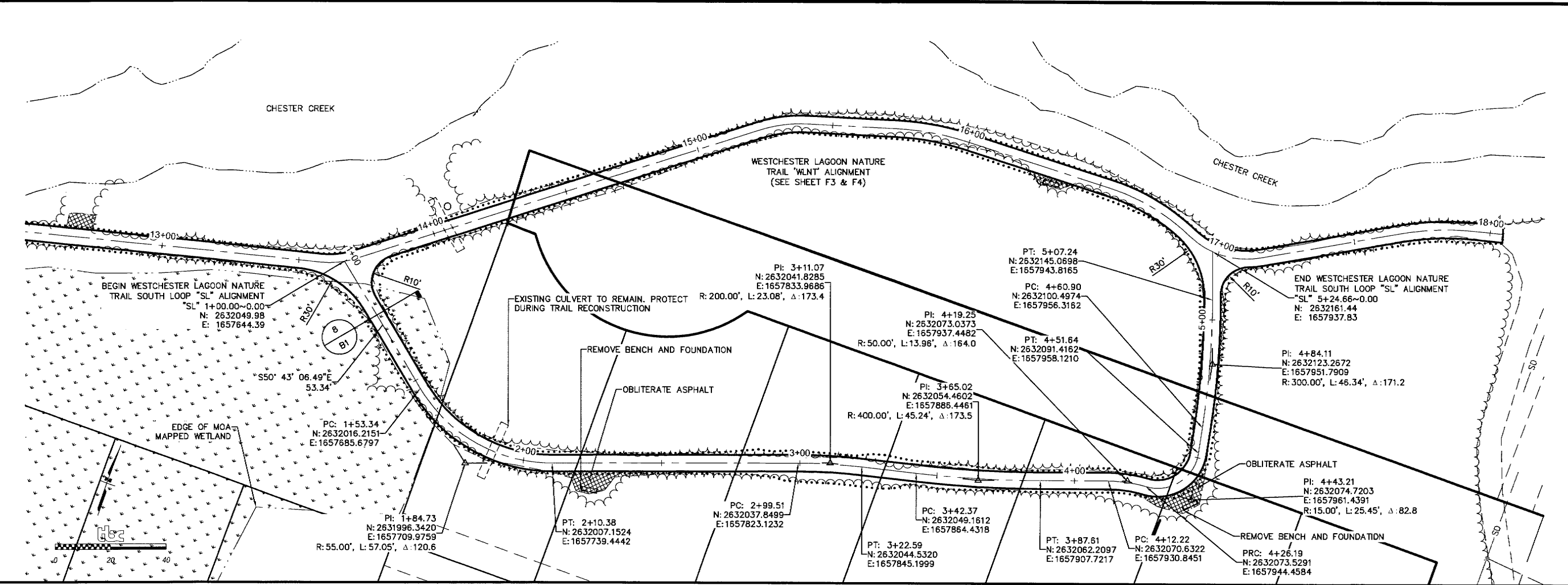


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DEPARTMENT OF TRANSPORTATION
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AMATS: WESTCHESTER
LAGOON NATURE TRAIL
REHABILITATION
PLAN & PROFILE

"WLNT" 14+50 TO 18+04 (EOP)

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SHEET NO.	TOTAL SHEETS
F5	F5
STATE	YEAR
ALASKA	2018
PROJECT DESIGNATION	
TA18001 / CFHWY00166	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

THIS SHEET

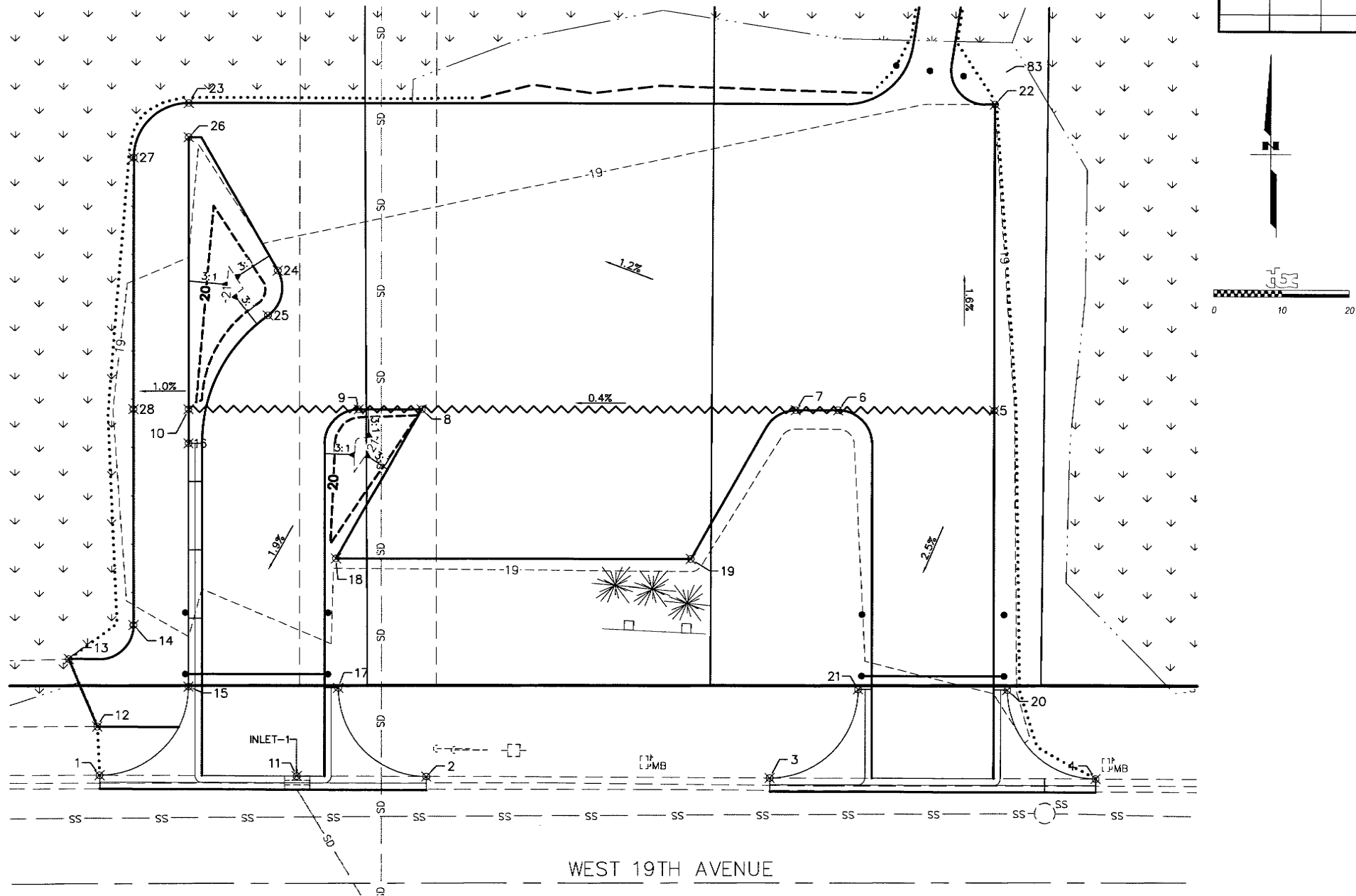
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
AMATS: WESTCHESTER LAGOON NATURE TRAIL REHABILITATION
PLAN & PROFILE
"SL" 1+00 (BOP) TO 5+21 (EOP)

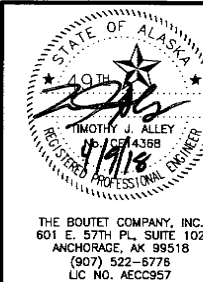
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	G1	G1



GRADING POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2631796.96	1657247.89	18.54	MATCH EXISTING TBC
2	2631796.81	1657295.85	18.41	MATCH EXISTING TBC
3	2631796.71	1657346.25	18.62	MATCH EXISTING TBC
4	2631796.67	1657394.24	18.73	MATCH EXISTING TBC
5	2631850.58	1657379.25	20.00	EOP
6	2631850.58	1657356.25	19.90	EOP
7	2631850.58	1657350.00	19.88	EOP
8	2631850.58	1657295.15	19.64	EOP
9	2631850.58	1657285.89	19.61	EOP
10	2631850.58	1657260.89	19.50	EOP
11	2631796.87	1657276.81	18.36	MATCH EXISTING CASTING ELEVATION
12	2631804.09	1657247.57	18.55	MATCH EXISTING EOP
13	2631813.99	1657243.43	18.67	MATCH EXISTING EOP
14	2631818.97	1657252.89	18.89	EOP
15	2631809.96	1657260.89	18.89	TBC
16	2631845.58	1657260.89	19.41	TBC
17	2631809.81	1657282.89	18.89	TBC
18	2631828.75	1657282.55	19.22	EOP
19	2631828.75	1657334.51	19.43	EOP
20	2631809.67	1657381.25	19.18	TBC
21	2631809.71	1657359.25	19.07	TBC
22	2631895.41	1657379.25	19.28	EOP
23	2631895.41	1657260.89	18.50	EOP
24	2631870.89	1657273.99	19.10	EOP
25	2631864.32	1657272.56	19.24	EOP
26	2631890.41	1657260.89	18.61	EOP
27	2631887.41	1657252.89	18.60	EOP
28	2631850.58	1657252.89	19.42	EOP



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION**

**PARKING LOT LAYOUT &
GRADING PLAN**

SYMBOL LEGEND

EXISTING	PROPOSED	
		LOAD CENTER
		TRAFFIC CONTROLLER
		BEACON CONTROLLER
		TYPE 1A JUNCTION BOX
		TYPE II JUNCTION BOX
		TYPE III JUNCTION BOX
		TYPE IV JUNCTION BOX
		ELECTROLIER
		HIGHTOWER
		SIGNAL POLE WITH MASTARM
		PEDESTRIAN PUSH BUTTON
		PEDESTRIAN SIGNAL
		VEHICULAR SIGNAL
		VEHICULAR SIGNAL LEFT
		VEHICULAR SIGNAL RIGHT
		OPTICAL DETECTOR
		GPS DETECTOR
		CAMARA DETECTOR
		RADAR DETECTOR
		LOOP DETECTOR
		ANTENNA, YAGI OR OMNI
		MASTARM BEACON
		RURAL BEACON
		SCHOOL ZONE BEACON
		LOOP DETECTOR CONDUIT
		SIGNAL CONDUIT
		PROPOSED LIGHTING CONDUIT
		SIGNAL & LIGHTING CONDUIT
		CONDUIT BORING
		CONDUIT SIZE IN INCHES
		FIBER OPTIC VAULT
		INTERCONNECT
		SIGN POST & NUMBER
		PRIVATE SIGN

PAVEMENT MARKING LEGEND

PROPOSED	
	PROJECT CENTERLINE
	8" WHITE SOLID STRIPE
	4" WHITE SOLID STRIPE
	4" WHITE SKIP STRIPE 10' STRIPES AND 30' SPACES
	8" WHITE LANE GUIDE SKIP LANE CONTINUATION OR TURN SKIP 1' STRIPES AND 3' SPACES
	4" WHITE BIKE LANE GUIDE SKIP LANE CONTINUATION OR TURN SKIP 2' STRIPES AND 6' SPACES
	8" YELLOW SOLID STRIPE
	4" YELLOW SOLID STRIPE
	4" YELLOW SKIP STRIPE 10' STRIPES AND 30' SPACES
	STRIPING CHANGE STATION INTERVAL
	2' CROSSWALK OR STOPBAR
	LADDER CROSSWALK LAYOUT 2' WIDE RUNGS WITH 2' SPACES ALIGNED TO AVOID TIRE PATHS
	TYPICAL PAINTED MEDIAN

ABBREVIATIONS

C - CENTERLINE
SIG - SERVICE TO CONTROLLER
INTX - INTERSECTION
INTX L - INTERSECTION LIGHTING
LTG - LIGHTING
PRE 2 - PREEMPTION #
PRE CON 2 - PREEMPTION CONTROLLER #
LC - LOAD CENTER
TC - TRAFFIC CONTROLLER
P1 - TRAFFIC SIGNAL POLE #
PEC - PHOTOELECTRIC CELL
YAGI - DIRECTIONAL ANTENNA
OMNI - OMNI DIRECTIONAL ANTENNA
HEAD - VEHICULAR SIGNAL HEAD
PED B 28 - PEDESTRIAN PUSH BUTTON #
PEDI - PEDESTRIAN SIGNAL HEAD
RMC - RIGID METAL CONDUIT
PE - POLYETHYLENE CONDUIT
LFNC - LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
AWG - AMERICAN WIRE GAUGE
NB - NORTH BOUND
EB - EAST BOUND
SB - SOUTH BOUND
WB - WEST BOUND

NOTES:

FOUNDATIONS NOTES:

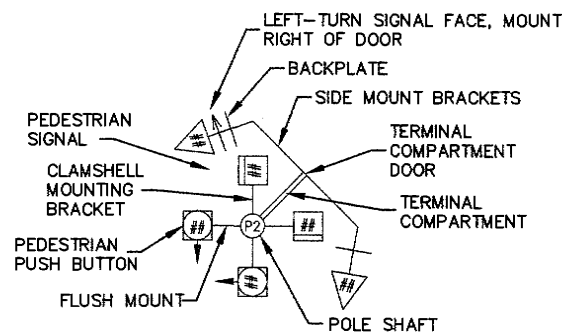
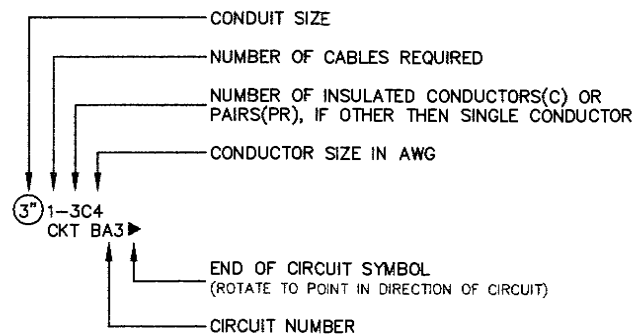
- STATION & C.L. REFERENCE ARE TO THE CENTER OF THE STRUCTURE, EXCEPT ON LOOPS WHICH ARE TO THE CENTER OF THE TRAILING EDGE OF THE LOOP (EDGE NEAREST INTERSECTION).
- JUNCTION BOX LOCATIONS APPROXIMATE. LOCATE J-BOXES SO THAT THEY ARE LOCATED OUT OF THE PATHWAY, SIDEWALK, CURB RAMPS, AND DRAINAGE COLLECTION AREAS.
- INSTALL LOAD CENTER AND TRAFFIC CONTROLLER FOUNDATIONS WITHIN 1-DEGREE OF PLUMB.
- INSTALL ANCHOR BOLTS IN CAST FOUNDATIONS TO BE WITHIN 1:40 OF PLUMB.
- TOPSOIL AND SEED ANY DISTURBED AREAS.

ILLUMINATION SYSTEM NOTES:

- FURNISH THE LUMINAIRE MASTARM LENGTHS AND DIMENSIONS SPECIFIED ON THE POLE ELEVATIONS.
- INSTALL MAST ARMS PERPENDICULAR TO THE TRAIL CENTERLINE. ACCEPTABLE VARIANCE IS +/- 1-DEGREE.
- REMOVE ABANDONED OR UNUSED TRAFFIC JUNCTION BOXES UNLESS OTHERWISE NOTED.
- EXISTING CIRCUITS LISTED ON THE LOAD CENTER SUMMARY AND PLAN SHEETS WERE OBTAINED FROM AS-BUILT INFORMATION AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO WORK INVOLVING THOSE CIRCUITS.

SIGNING & STRIPING NOTES:

- ALL STATION LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN POST TYPES IN THE SIGN SUMMARY SHEETS.
A. PT MEANS A PERFORATED STEEL TUBE.
B. T MEANS A SQUARE STEEL TUBE.
C. P MEANS A ROUND STEEL PIPE.
D. W MEANS A WIDE FLANGE BEAM.
E. POPL MEANS A POLE PLATE INSTALLED PER ITS STANDARD DRAWING S-23
- FABRICATE ALL SIGNS FROM 0.125" THICK ALUMINUM SHEETING, UNLESS STATED ELSEWHERE.
- FOR PERFORATED STEEL TUBE SIGNPOSTS, INSTALL THE CONCRETE FOUNDATION OPTION SHOWN ON STANDARD DRAWING S-30.04. TRIM EACH PT POST TO LIMIT THE LENGTH INSERTED INTO THE FOUNDATION TO 12 INCHES.
- FABRICATE GUIDE SIGNS ACCORDING TO THE SHOP DRAWINGS INCLUDED IN THE APPENDICES OF PART 4, CONTRACT PROVISIONS AND SPECIAL PROVISIONS. TRIM THE CORNERS OF ALL SIGNS TO THE RADIUS SHOWN ON EACH SHOP DRAWING.
- ERECT NEW SIGNS BEFORE REMOVAL OF EXISTING SIGNS WITH SIMILAR MESSAGE. NOTIFY THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO BEGINNING SIGN REMOVAL AND SALVAGE OR DISPOSAL ACTIVITIES.
- FOR SIGNS SUPPORTED BY MULTIPLE TUBES OR PIPES, LOCATE THE OUTER POSTS ON MAXIMUM SIX FEET CENTERS. INSTALL ADJACENT WIDE FLANGE POSTS ON MINIMUM EIGHT FEET CENTERS.
- FOR ALL FINAL PAVEMENT MARKINGS USE TRAFFIC PAINT SURFACE APPLIED AT A WET FILM THICKNESS 20 MILS.
- DIMENSIONS REFER TO THE CENTER OF STRIPE AND THE EDGE OF PAVEMENT OR FACE OF CURB WHEN PRESENT.
- IF THE NEW AND EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER ON THE NEW PAVEMENT.
- WHERE NEW STRIPING IS TO EXTEND BEYOND PAVING LIMITS, REMOVE EXISTING STRIPING IN ACCORDANCE WITH SUBSECTION 670-3.04 TO THE EXTENT OF STRIPING LIMITS.



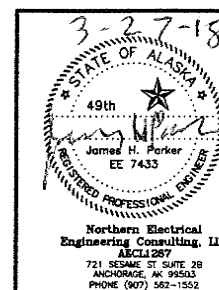
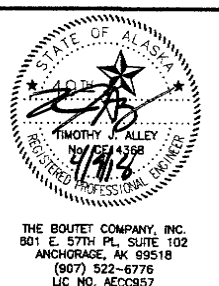
POLE SHAFT LEGEND

CALL BEFORE YOU DIG!

CONTRACTOR SHALL CALL A MINIMUM OF 3 DAYS IN ADVANCE OF CONSTRUCTION

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

CALL OR GO TO WWW.AKONECALL.COM/STATEWIDE.HTM FOR MEMBER LIST OF WHO WILL BE NOTIFIED

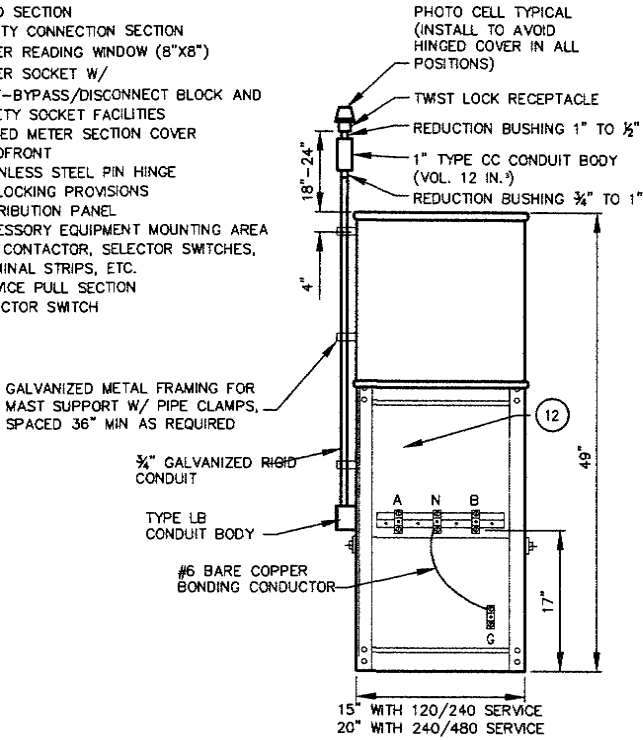


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION**

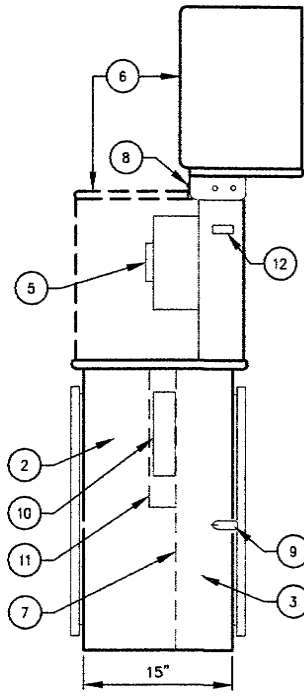
ILLUMINATION, SIGNING AND
STRIPING NOTES AND LEGEND

EQUIPMENT LEGEND/DESCRIPTION

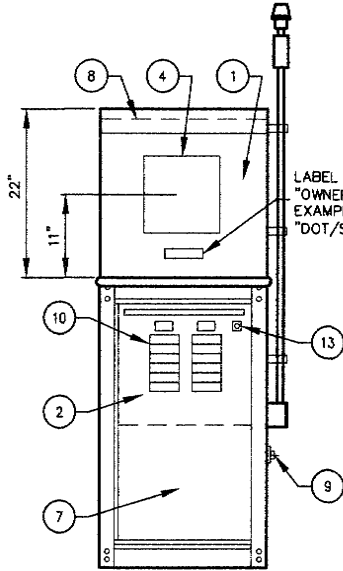
- 1. METERING SECTION
- 2. LOAD SECTION
- 3. UTILITY CONNECTION SECTION
- 4. METER READING WINDOW (8"x8")
- 5. METER SOCKET W/ TEST-BYPASS/DISCONNECT BLOCK AND SAFETY SOCKET FACILITIES
- 6. HINGED METER SECTION COVER
- 7. DEADFRONT
- 8. STAINLESS STEEL PIN HINGE
- 9. PADLOCKING PROVISIONS
- 10. DISTRIBUTION PANEL
- 11. ACCESSORY EQUIPMENT MOUNTING AREA FOR CONTACTOR, SELECTOR SWITCHES, TERMINAL STRIPS, ETC.
- 12. SERVICE PULL SECTION
- 13. SELECTOR SWITCH



REAR VIEW
(W/ DOOR REMOVED)



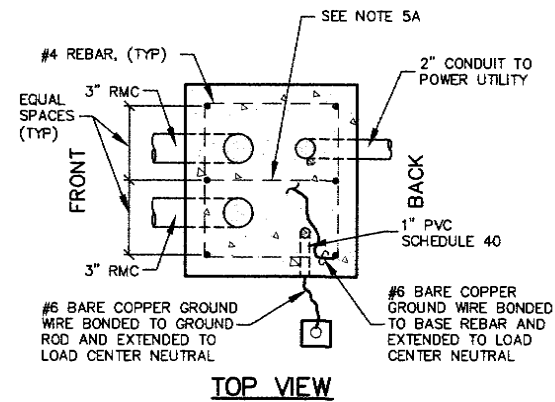
RIGHT SIDE VIEW
(W/ METER SECTION OPEN)



FRONT VIEW
(W/ DOOR REMOVED)

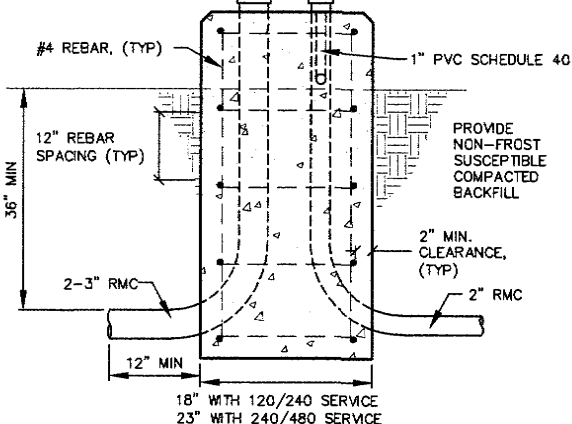
TYPE 1A CABINET DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	H2	H10

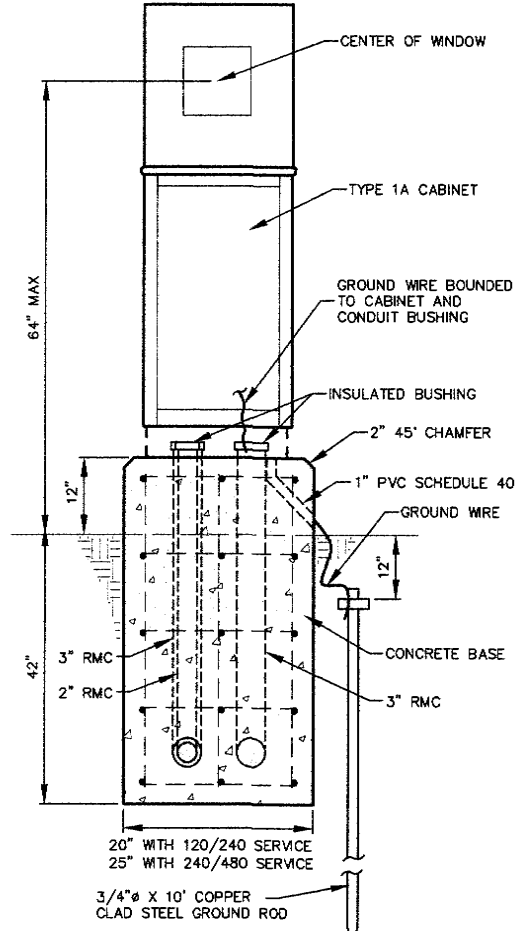


TOP VIEW

PROVIDE "J" ANCHOR BOLTS AS REQUIRED TO MOUNT LOAD CENTER CABINET IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS



RIGHT SIDE VIEW

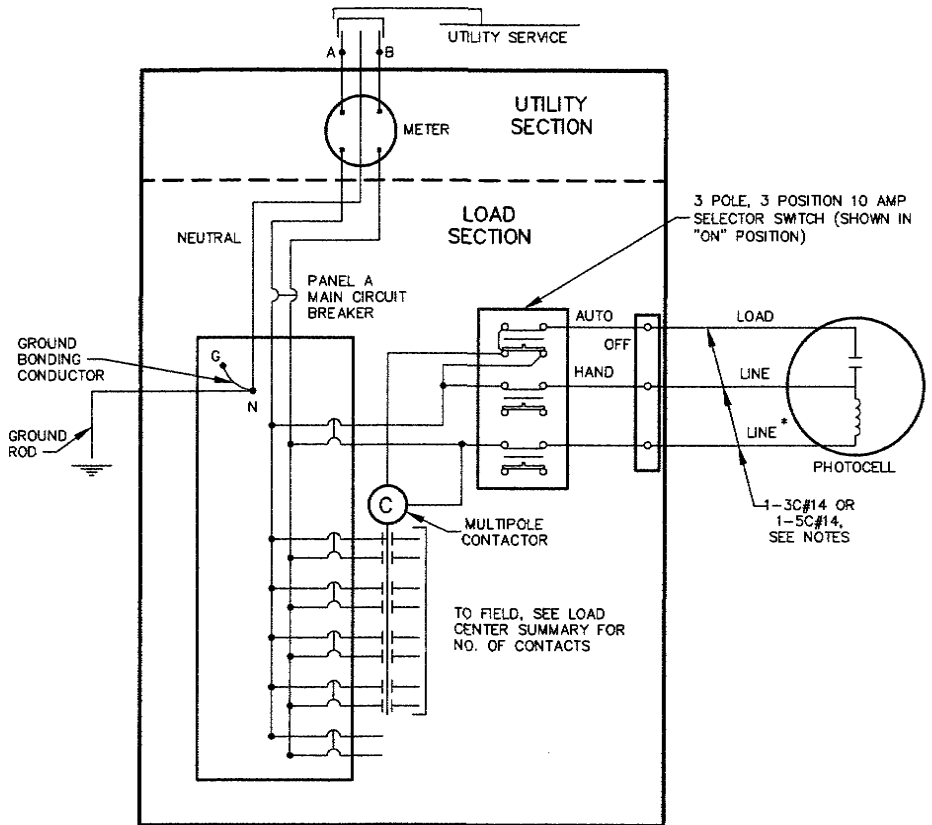


FRONT VIEW

FOUNDATION DETAILS

FOUNDATION NOTES:

- 1. GRADE AWAY FROM THE BASE WITH A MINIMUM SLOPE OF 3%. USE A PRE-MOULDED BITUMINOUS JOINT BETWEEN THE BASE AND CONCRETE SIDEWALK OR PAVING, WHEN ADJACENT TO A SIDEWALK OR PATHWAY.
- 2. PROVIDE ANCHOR BOLTS OR EXPANSION ANCHORS IN THE BASE FOR MOUNTING THE CABINET PER THE MANUFACTURER'S SHOP DRAWINGS. ANCHOR BOLTS, NUTS, AND WASHERS SHALL CONFORM TO EITHER ASTM A307 OR A449 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
- 3. USE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM 615 AND CLASS "A" CONCRETE CONFORMING TO SECTION 501 OF THE SPECIFICATIONS WHEN CASTING THE BASE.
- 4. IF THE BASE IS PRECAST, INSTALL TWO 3/4 inch FERRULE LOOP INSERTS IN TWO SIDES OPPOSITE ONE ANOTHER FOR LIFTING.

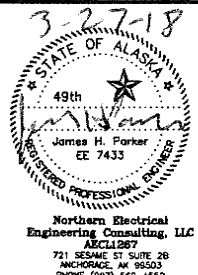
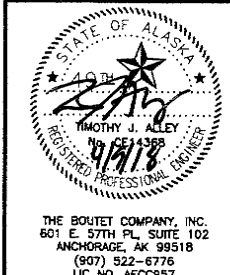


LOAD CENTER ONE LINE DIAGRAM AND
SELECTOR SWITCH WIRING

* GROUNDING NEUTRAL, IF SERVICE IS 240/480 VOLT SINGLE PHASE OR 277/480 VOLT THREE-PHASE; AND UNGROUNDING LINE, IF SERVICE IS 120/240 VOLT SINGLE PHASE.

WIRING NOTES:

- 1. FURNISH ALL EQUIPMENT NOTED IN THE LOAD CENTER SUMMARY, PLUS TWO 20-AMP 2-POLE SPARE CIRCUIT BREAKERS, AND SPACE FOR A MINIMUM OF TWO ADDITIONAL 2-POLE CIRCUIT BREAKERS IN EACH LOAD PANEL. SEE THE LOAD CENTER SUMMARIES FOR LOAD PANEL VOLTAGES, CURRENT RATINGS, AND THE NAME OF THE SERVING UTILITY.
- 2. INSTALL GROUNDING HUBS THIRD PARTY CERTIFIED FOR WET LOCATIONS (MYERS TYPE), WHEN ATTACHING CONDUITS TO THE LOAD CENTER ENCLOSURE.
- 3. LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION. LABEL THE SELECTOR SWITCH "LIGHTING" AND ITS POSITIONS "ON-OFF-AUTO".
- 4. METER BASES SHALL NOT BE MOUNTED ON MOVABLE PANELS OR DOORS.
- 5. THE LENGTH AND TYPE OF SERVICE ENTRANCE CONDUIT INSTALLED BY THE CONTRACTOR VARIES BY UTILITY. REGARDLESS OF ITS LENGTH, INSTALL A PULL ROPE IN THE SERVICE CONDUIT AND A CAP ON THE BURIED END; MARK THE BURIED END WITH A 2"x6" STAKE. SEE THE LOAD CENTER SUMMARIES FOR THE FOLLOWING INFORMATION.
 - A. STATION AND OFFSET OF THE LOAD CENTER AND POWER SOURCE.
 - B. WHERE THE CONTRACTOR TERMINATES THE SERVICE ENTRANCE CONDUIT.
 - C. THE TYPE OF SERVICE ENTRANCE CONDUIT (SUCH AS RIGID METAL CONDUIT OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT).
- 6. STORE A SCHEMATIC DIAGRAM, A CIRCUIT DIRECTORY, AND A MATERIALS LIST THAT INCLUDES THE MANUFACTURER'S NAME AND PART/CATALOG NUMBERS, ALL LAMINATED IN PLASTIC, IN A METAL POCKET ATTACHED TO THE INSIDE OF THE LOAD CENTER. INSTALL THE POCKET ON THE LOAD CENTER DOOR, PROVIDING DRAIN HOLES TO PREVENT WATER ACCUMULATION.
- 7. SIZE THE DISTRIBUTION PANEL TO ACCOMMODATE THE CIRCUITS SHOWN ON THE LOAD CENTER SUMMARIES AND SPARE CIRCUITS AS DEFINED IN NOTE 1.
- 8. SEPARATE THE MAIN CIRCUIT BREAKER FROM THE DISTRIBUTION PANEL.
- 9. MOUNT PHOTOCELL RECEPTACLE TO 1/2 inch CONDUIT WITH SILICONE SEALANT. INSTALL A 3C#14 CABLE FROM THE LOAD CENTER TO THE TYPE CC CONDUIT BODY WHERE THE SPICE TO THE PHOTOCELL RECEPTACLE CABLE SHALL BE MADE. IF PLANS CALL TO MOUNT PHOTOCELL AWAY FROM LOAD CENTER USE A 5C#14 CABLE FROM LOAD CENTER TO RECEPTACLE.

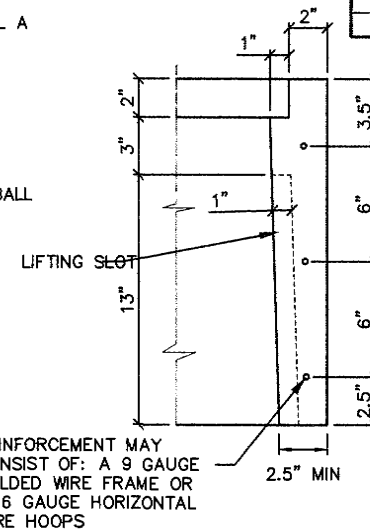
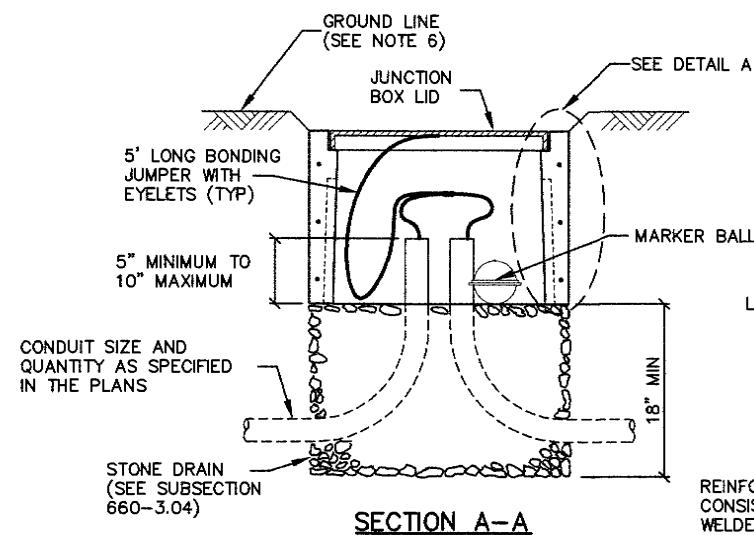
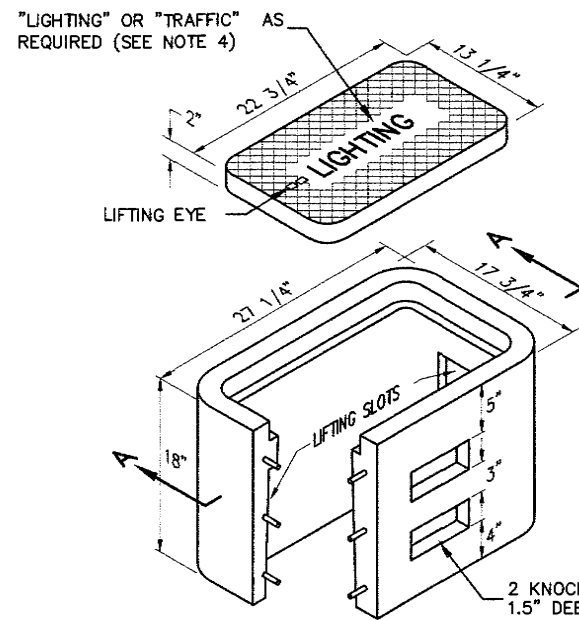


STATE OF ALASKA
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AND PUBLIC FACILITIES

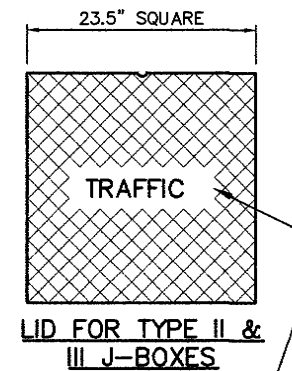
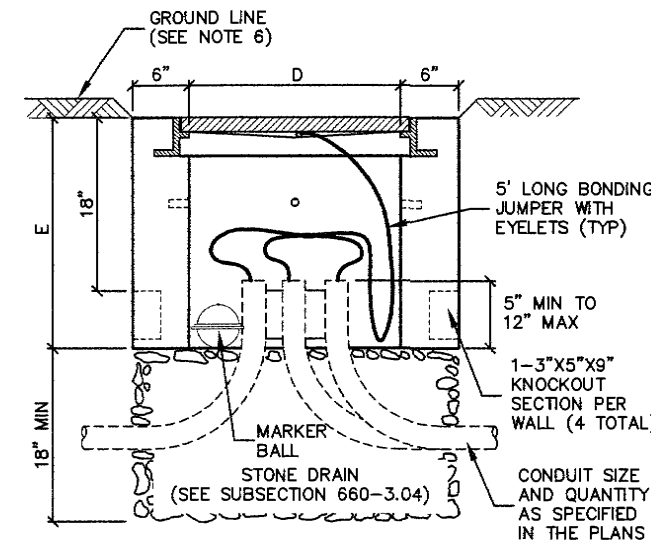
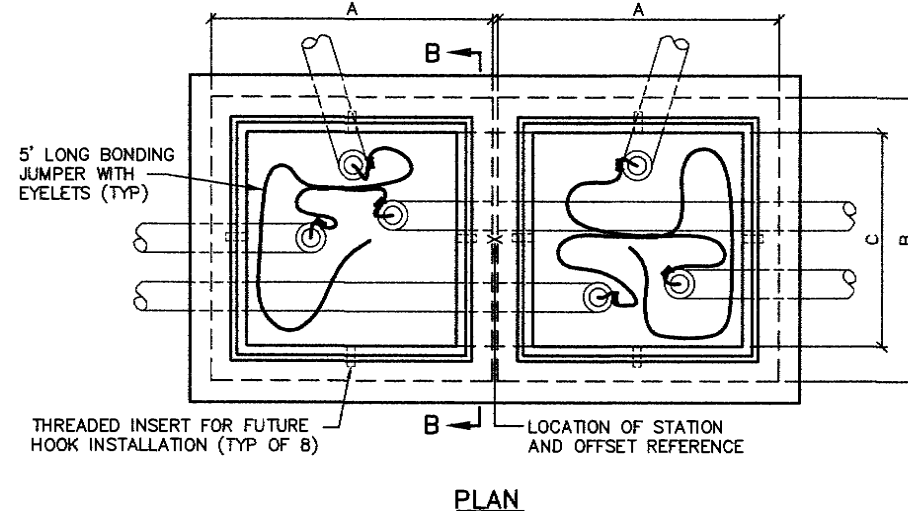
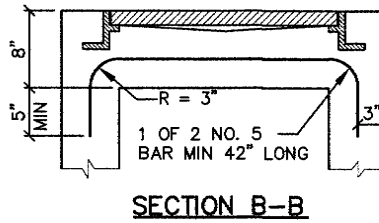
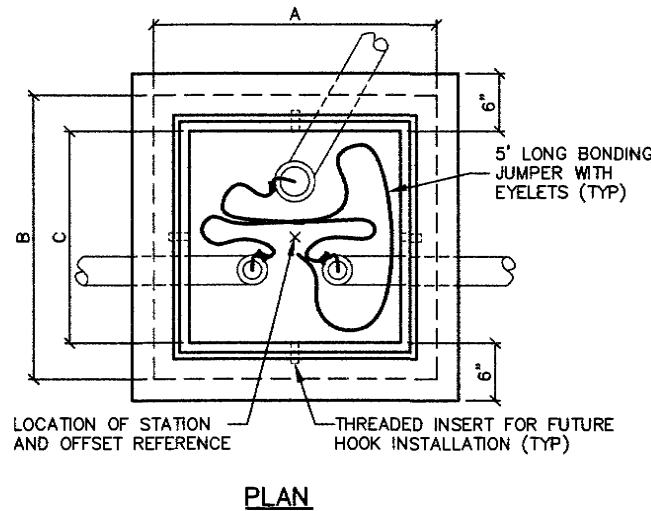
AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION

LOAD CENTER 1A DETAILS

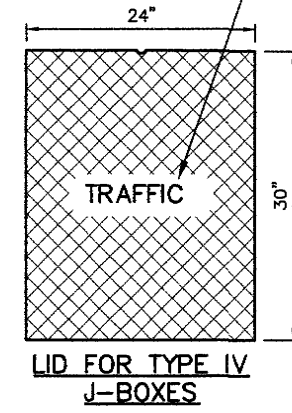
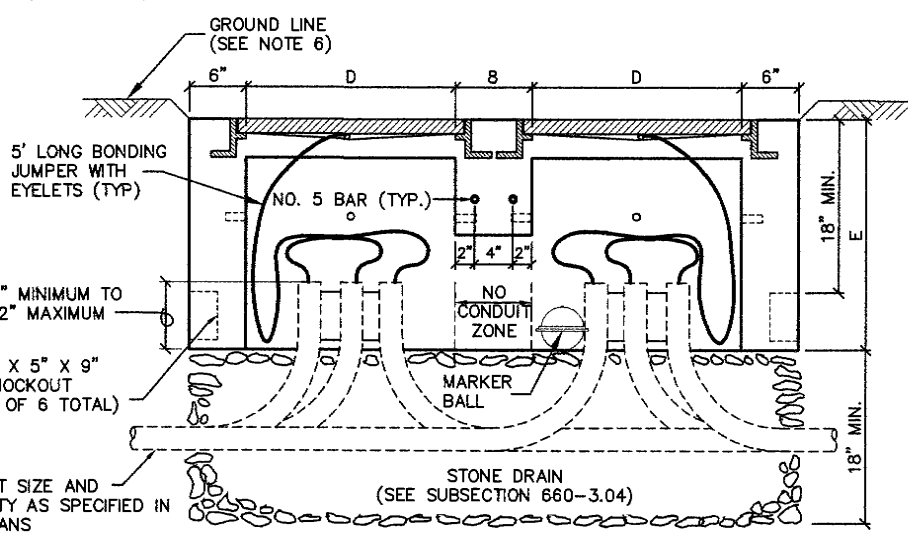
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DATE/TIME 2/27/2018 10:17AM
DESIGNED H3
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TA



TYPE IA JUNCTION BOX



"LIGHTING" OR "TRAFFIC" AS REQUIRED (SEE NOTE 4)

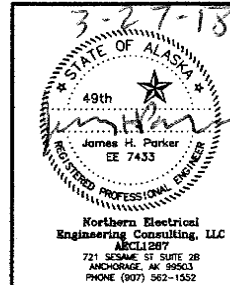


TYPE III/IV JUNCTION BOX

NOTES:

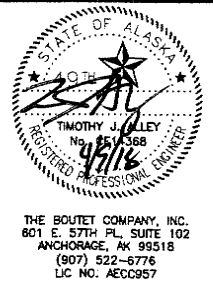
1. AVOID INSTALLING TYPE IA JUNCTION BOXES IN DRIVEWAYS OR IN LOCATIONS SUBJECT TO USE BY HEAVY TRUCKS. INSTALL JUNCTION BOXES ONLY AT THE LATERAL LOCATIONS ALLOWED IN SUBSECTION 660-3.04.
2. FURNISH TYPE II, III AND IV JUNCTION BOXES WITH CAST IRON FRAMES AND LIDS THAT WEIGH A MINIMUM OF 210 POUNDS AND ARE RATED FOR HEAVY TRAFFIC LOADS IN COMPLIANCE WITH AASHTO M306. FURNISH TYPE IA JUNCTION BOXES WITH CAST IRON LIDS THAT WEIGH A MINIMUM OF 50 POUNDS.
3. CONSTRUCT JUNCTION BOXES ACCORDING TO SECTION 501 USING CLASS A CONCRETE. REINFORCE TYPE IA JUNCTION BOXES AS SHOWN. SYNTHETIC STRUCTURAL FIBER-REINFORCED CONCRETE THAT MEETS ASTM C 1116 AND CONTAINS FIBER IN PROPORTIONS AS RECOMMENDED BY THE FIBER MANUFACTURER MAY BE ADDED FOR STRENGTH.
4. FOR JUNCTION BOXES THAT CONTAIN ILLUMINATION CONDUCTORS EXCLUSIVELY, FURNISH LIDS WITH THE WORD "LIGHTING" INSCRIBED INTO THEM. FOR OTHER JUNCTION BOXES, FURNISH LIDS WITH THE WORD "TRAFFIC" INSCRIBED INTO THEM.
5. SET THE TOPS OF JUNCTION BOXES WITH THE FOLLOWING DIMENSIONS BELOW THE FINISHED SURROUNDING SURFACE:
 - 1" IN PAVED MEDIANS AND ADJACENT TO PEDESTRIAN FACILITIES
 - 1/4" IN PEDESTRIAN FACILITIES
 - 2" IN ALL OTHER AREAS
6. BOND JUNCTION BOX LIDS TO THE SYSTEM OF EQUIPMENT GROUNDING CONDUCTORS ACCORDING TO SUBSECTION 660-3.06. ATTACH BONDING JUMPERS TO THE JUNCTION BOX LIDS WITH BRASS OR STAINLESS STEEL HARDWARE.
7. INSTALL LOOP DETECTOR TAILS THROUGH ONE OF THE KNOCKOUTS OF TYPE IA JUNCTION BOXES. AFTER SETTING THE BOXES TO GRADE, INSTALL GROUT IN THE GAPS THAT REMAIN IN THE KNOCKOUT.
8. INSTALL A 1/2" THICK PREFORMED BITUMINOUS JOINT MATERIAL AROUND JUNCTION BOXES INSTALLED IN PORTLAND CEMENT CONCRETE WALKWAYS.
9. INSTALL AN ELECTRONIC MARKER BALL IN ALL JUNCTION BOXES PER SUBSECTION 660-3.04.
10. PRIOR TO INSTALLATION MARK ALL JUNCTION BOX LOCATIONS WITH A WIRE STAFF VINYL FLAG. THE FLAG SHALL BE RED IN COLOR AND MINIMUM 4-INCHES TALL BY 5-INCHES WIDE. THE WIRE STAFF SHALL BE 21-INCHES IN LENGTH AND CONSTRUCTED OF MINIMUM 15.5 GAUGE STEEL.

J-BOX DIMENSIONS					
J-BOX TYPE	DIMENSIONS				
	A (MAX.)	B (MAX.)	C (MIN.)	D (MIN.)	E (MIN.)
II	29 1/2"	29 1/2"	22"	22"	24"
III	29 1/2"	29 1/2"	22"	22"	24"
IV	30"	36"	30"	24"	30"



STATE OF ALASKA
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**AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION**

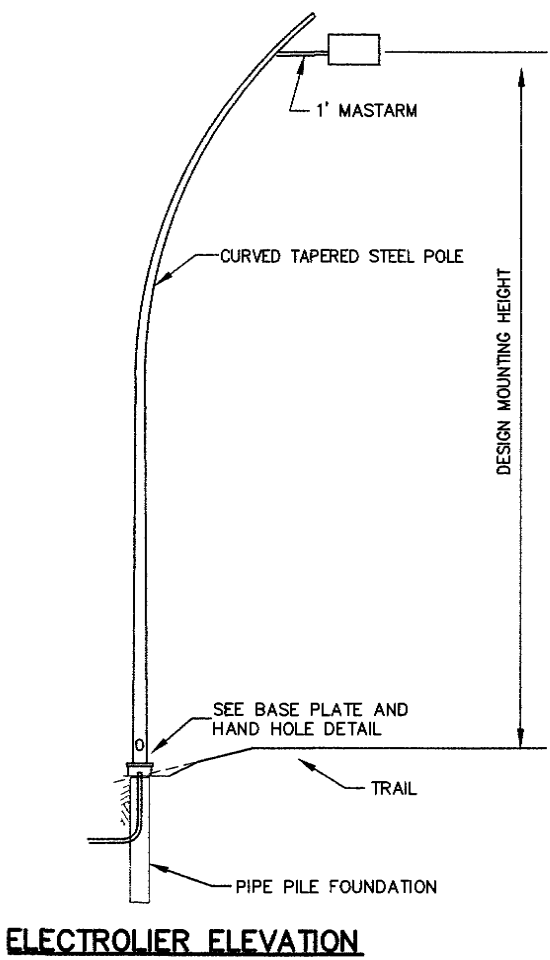
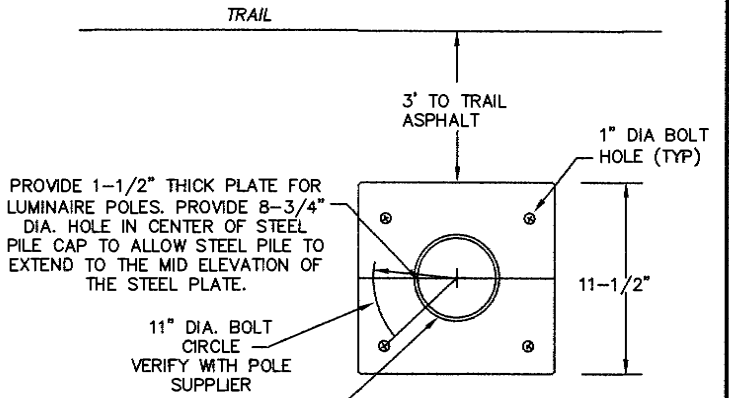
JUNCTION BOX DETAILS



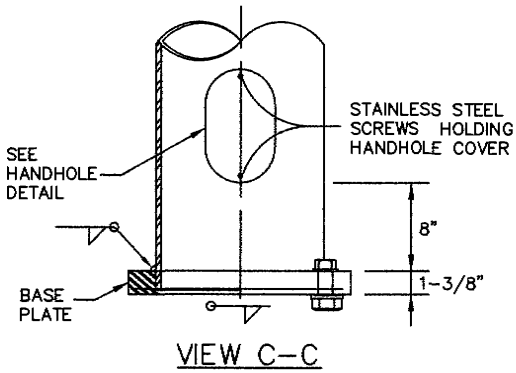
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	H4	H10

NOTES:

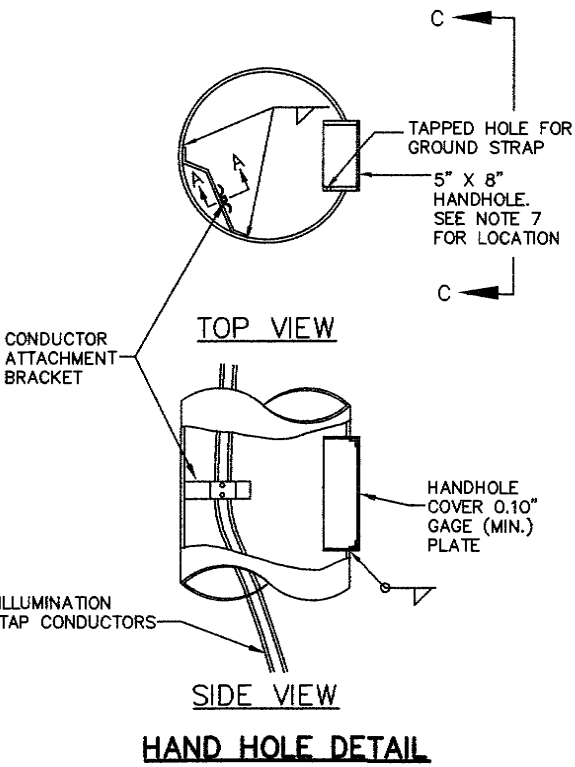
- DESIGN AND FABRICATE ALL SHAFTS TO SUPPORT A MASTARM 4 FEET LONG WITH LUMINAIRE. ASSUME EACH LUMINAIRE WEIGHS 55 POUNDS AND HAS AN EFFECTIVE PROJECTED AREA OF 1.2 SQUARE FEET. WITH THIS DEAD LOAD, LIMIT THE ANGULAR ROTATION TO THE POLE TOP 1'40"0" MAXIMUM.
- WELD SIZE TO BE DETERMINED BY THE MANUFACTURER.
- MOUNTING HEIGHT, IF SPECIFIED IN THE PLANS, REFERS TO THE HEIGHT OF LUMINAIRE ABOVE THE TRAIL. ADJUST EACH POLE'S SHAFT LENGTH TO MAINTAIN THIS DIFFERENCE IN ELEVATION WHENEVER SLOPE AND/OR OFFSET VARIES.
- MINIMUM OUTSIDE DIAMETER AT THE TOP OF POLE EQUALS 3-7/8". POLE DIAMETER SHALL TAPER UNIFORMLY FROM THE TOP OF THE POLE TO THE BASE PLATE, WITH A MAXIMUM TAPER RATE OF 0.14" PER FOOT.
- APPLY AN ANTI-SEIZING COMPOUND TO ALL THREADED SURFACES, INCLUDING THOSE IN THE ANCHOR PLATE AND ON THE COUPLINGS.
- MASTARM RISE MAY VARY $\pm 0.5'$ FROM THE VALUES LISTED IN THE TABLE.
- LOCATE THE HANDHOLD AT 90 DEGREES TO THE MASTARM ON THE LEFT SIDE OF POLE WHEN VIEWED FROM THE TRAIL.
- FURNISH ALL POLES WITH A J-HOOK TO SUPPORT THE ILLUMINATION TAP CONDUCTORS. FURNISH ALL MASTARM POLES WITH A REMOVABLE RAIN TIGHT CAP.
- INSTALL JUNCTION BOXES AS SHOWN ON PLAN DRAWING.



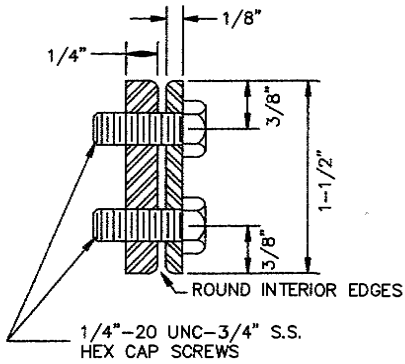
ELECTROLIER ELEVATION



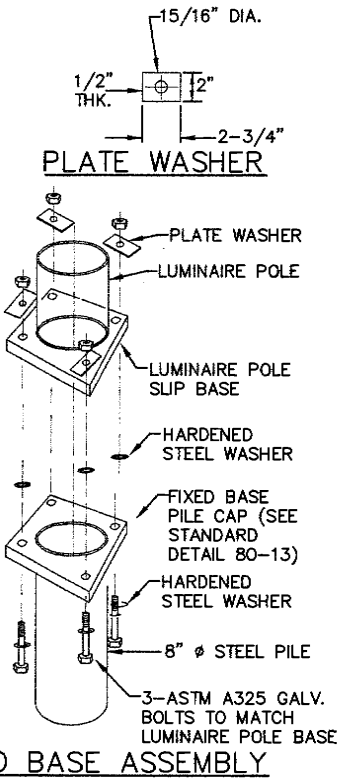
VIEW C-C



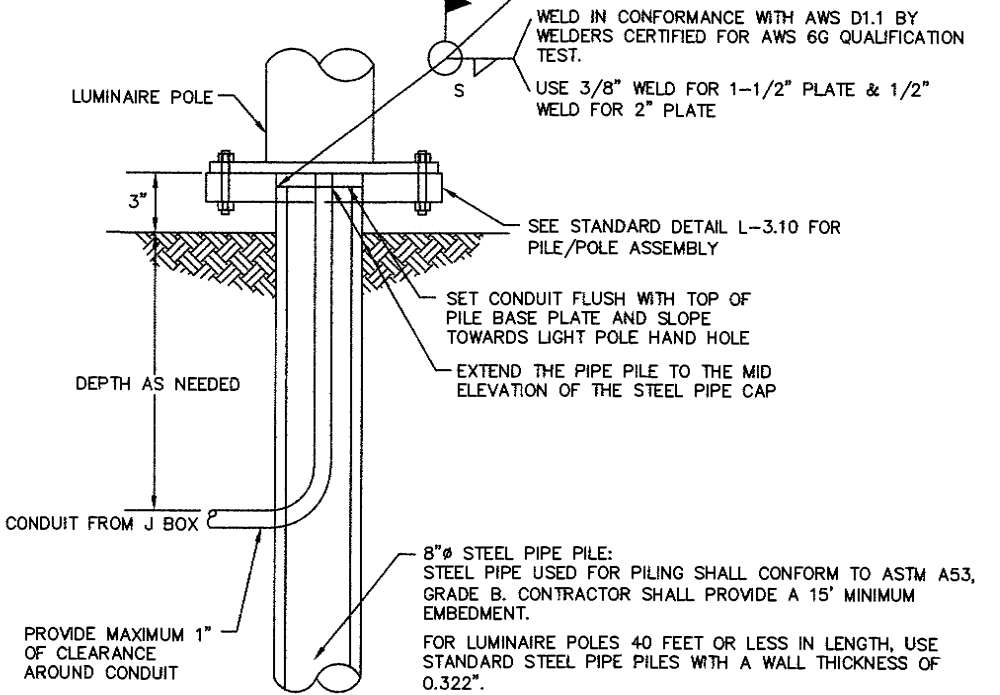
HAND HOLE DETAIL



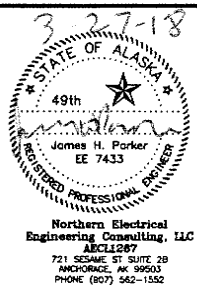
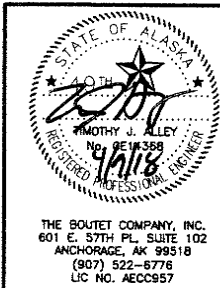
SECTION A-A



FIXED BASE ASSEMBLY



PILE FOUNDATION

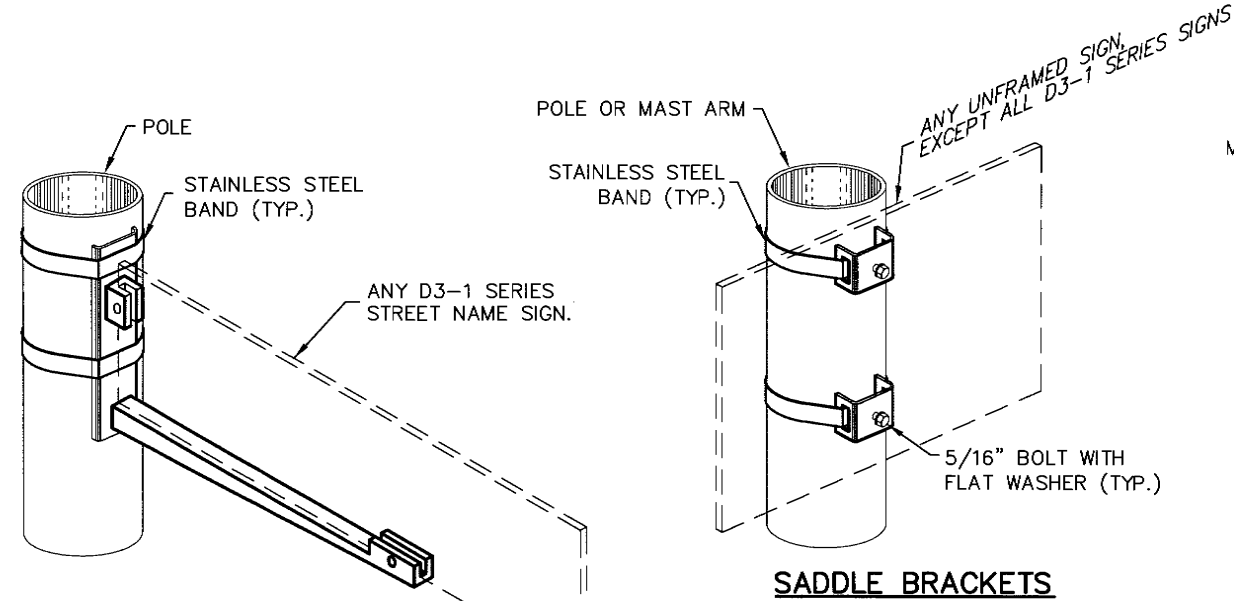


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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**AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION**
POLE AND FOUNDATION DETAILS

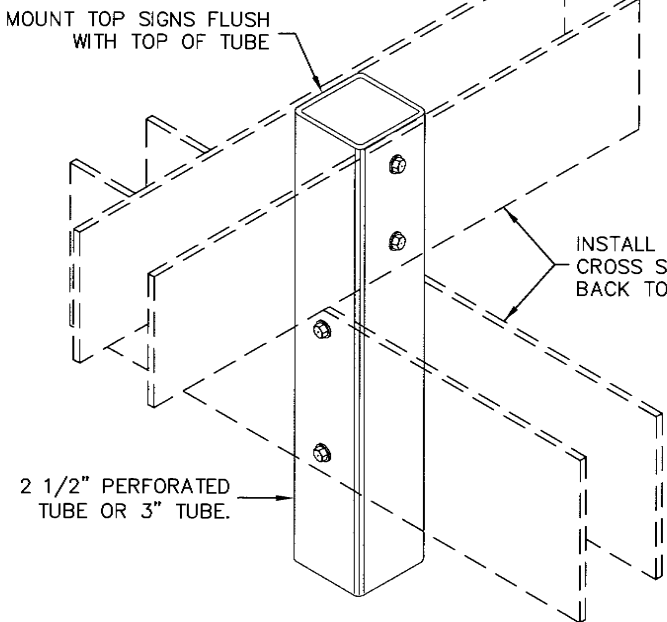
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	H5	H10

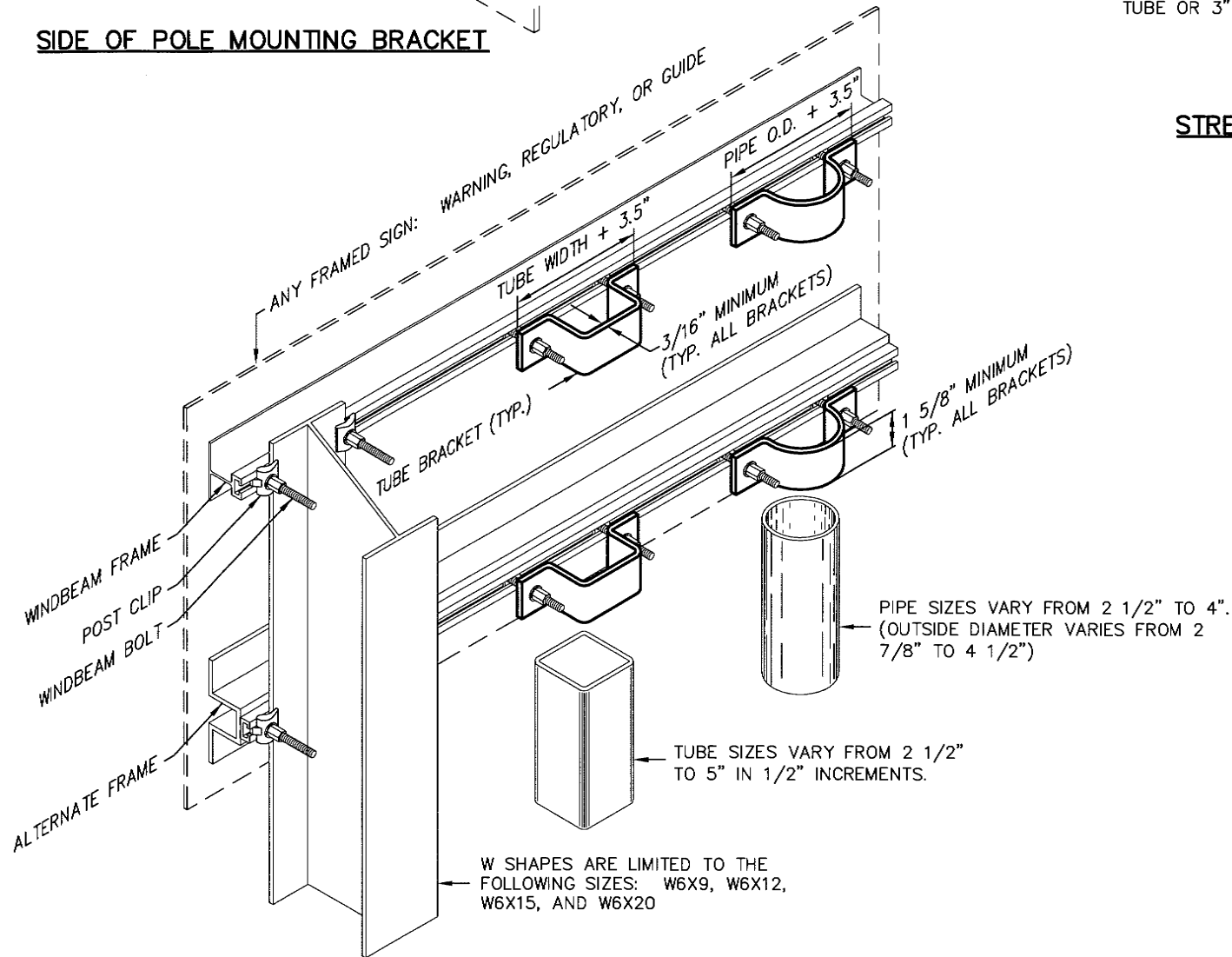
- NOTES:**
- EXCEPT FOR POLES AND MAST ARMS, ONLY USE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
 - ATTACH SIGNS, FRAMED AND UNFRAMED TO THEIR SUPPORTS WITH ZINC PLATED 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PERFORATED TUBES WITH ACCESSORY DRIVE RIVETS AND TO SADDLES WITH 5/16" BOLTS.
 - BOLT UNFRAMED SIGNS DIRECTLY TO TUBES IN TWO LOCATIONS, NEAR TOP AND NEAR BOTTOM OF MATING SURFACE. ATTACH THEM TO POLES AND MAST ARMS WITH TWO SADDLES.
 - ATTACH BRACKETS TO POLES AND MAST ARMS WITH DOUBLE WRAPS OF 3/4" WIDE BY 0.020" THICK STAINLESS STEEL BANDING MATERIAL. TIGHTEN EACH BAND UNTIL IT STOPS MOVING THROUGH THE BUCKLE.
 - ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES, AND A BRACKET WITH SQUARE CORNERS ON TUBES.
 - THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
 - ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL.
 - ATTACH FRAMED SIGNS TO POLES AND MAST ARMS USING POLE PLATES INSTALLED ACCORDING TO STANDARD DRAWING S-23.00
 - FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
 - INSTALL THE TOP EDGE OF SIGNS 1" ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
 - INSTALL THE TOP EDGE OF SIGNS 3" BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
 - THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
 - INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.



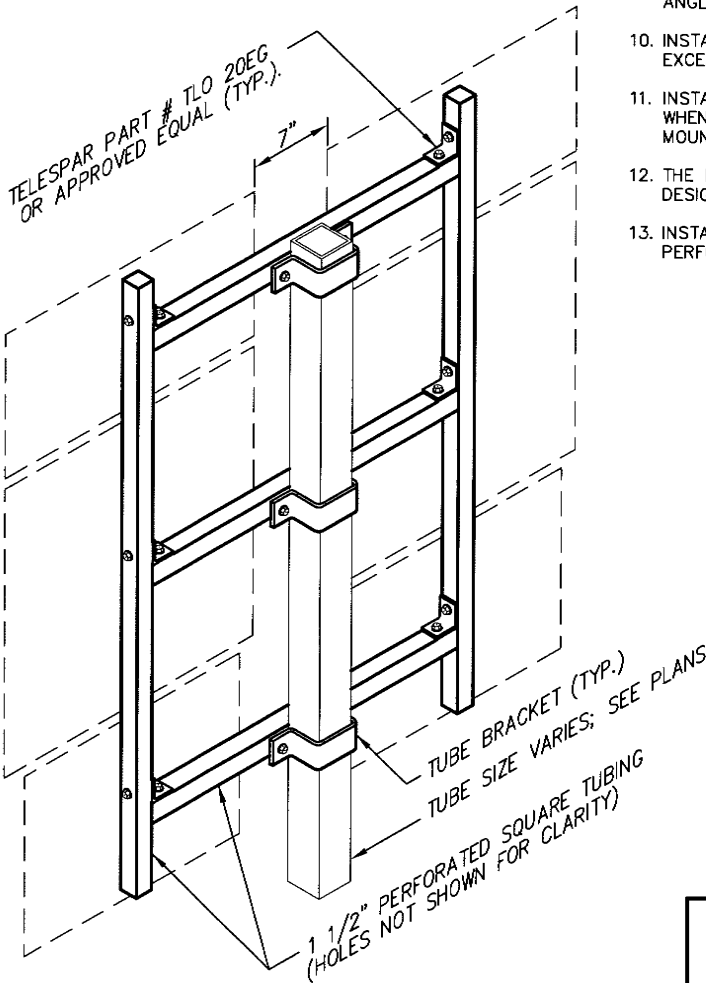
SIDE OF POLE MOUNTING BRACKET



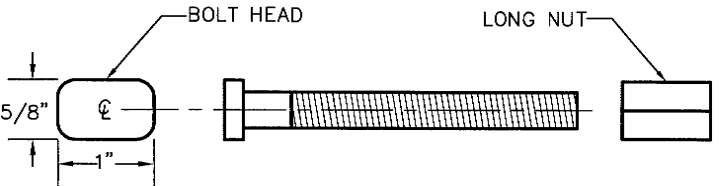
STREET NAME SIGN INSTALLATION



FRAMED SIGN ATTACHMENT BRACKETS

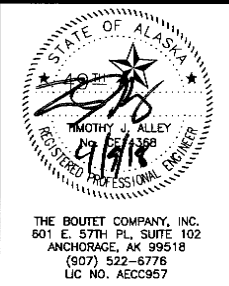


ROUTE MARKER TREE



3/8" WINDBEAM BOLT AND LONG NUT

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

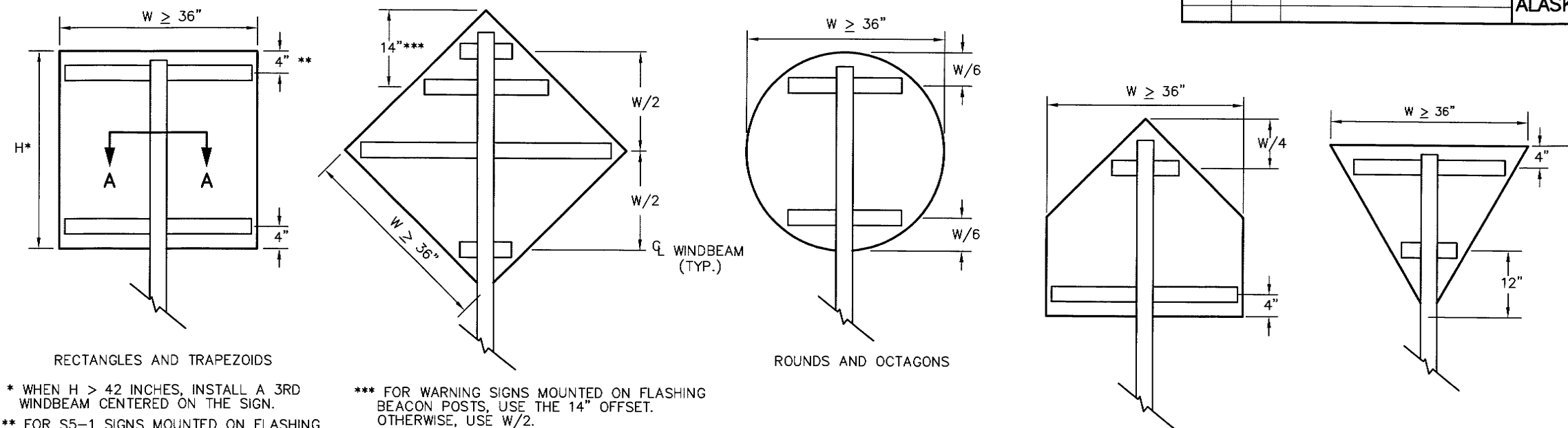


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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**AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION**

SIGN ATTACHMENT DETAIL

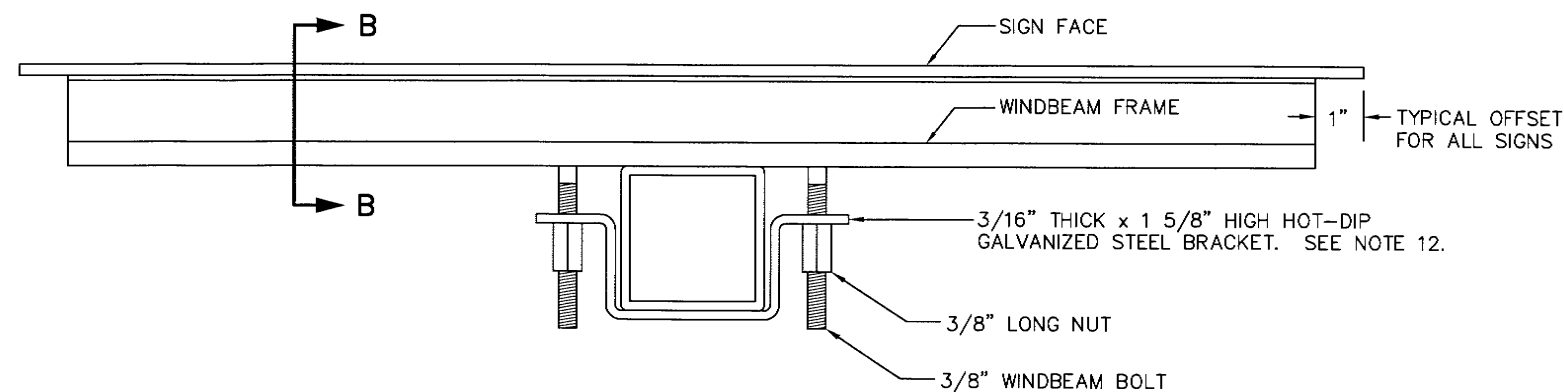
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	H6	H10

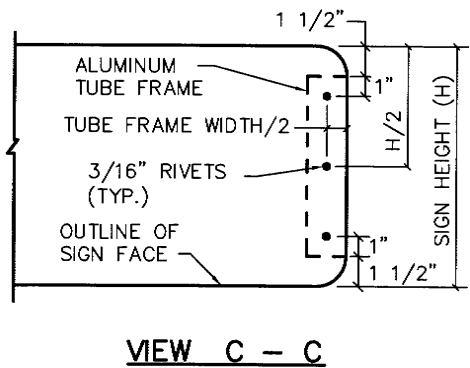


WINDBEAM LOCATIONS FOR EACH SIGN SHAPE
ELEVATION VIEW

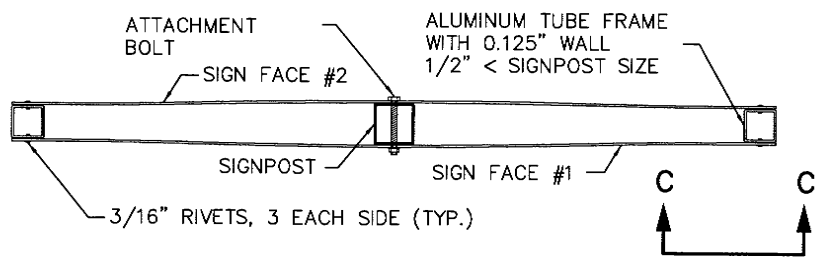
- NOTES:
- EXCEPT FOR POLES AND MAST ARMS, ONLY USE SQUARE STEEL TUBES TO SUPPORT SIGNS MOUNTED ON SINGLE POSTS.
 - INSTALL WINDBEAM OR ZEE SHAPED FRAMING MEMBERS ON DIAMOND SHAPED SIGNS 36 INCHES AND LONGER ON A SIDE AND ON OTHER SIGNS 36 INCHES WIDE AND WIDER.
 - IN HIGH WIND AREAS, THE PLANS MAY REQUIRE SIGNS SMALLER THAN THOSE LISTED IN NOTE 2 BE FRAMED AS SHOWN HERE IN.
 - THIS DRAWING DEPICTS THE WINDBEAM FRAMING AND ATTACHMENT SYSTEM. ATTACH SIGNS FRAMED WITH ZEE SHAPED FRAMING ACCORDING TO REGIONAL DRAWING "SIGN ATTACHMENT DETAILS", USING "U" SHAPED BRACKETS AND TWO BOLTS WITH NUTS.
 - THE ENGINEER MAY APPROVE OTHER FRAMING MEMBERS. SUBMIT DOCUMENTS THAT DETAIL THE FRAME'S CROSS SECTION AND STRENGTH, AND METHOD OF ATTACHING THE FRAME TO A POST.
 - USE FRAMING MEMBERS MADE FROM ALUMINUM ALLOY 6061-T6.
 - EACH FRAMING MEMBER SHALL BE ONE CONTINUOUS PIECE.
 - ATTACH FRAMING MEMBERS TO THE SIGN PANELS WITH RIVETS OR AN ENGINEER APPROVED, DOUBLE SIDED, HIGH STRENGTH, ADHESIVE TAPE.
 - WITH THE ADHESIVE TAPE, INSTALL TWO RIVETS IN BOTH ENDS OF EACH FRAMING MEMBER, AND ATTACH THE FRAMING MEMBERS TO THE SIGN PANELS ACCORDING TO THE TAPE MANUFACTURER'S WRITTEN INSTRUCTIONS, INCLUDING:
A. THE CLEANING AND HANDLING OF THE SIGN PANELS AND FRAMING MEMBERS.
B. THE APPLICATION OF THE ADHESIVE TAPE.
 - WHEN RIVETS ARE USED TO ATTACH FRAMING MEMBERS, INSTALL 2 RIVETS IN EACH END AND THE BALANCE ON 8" MAXIMUM CENTERS.
 - USE 3/16" DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061-T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061-T43 FOR HOT DRIVEN RIVETS.
 - THE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
 - USE ONE 2.5" P.T. FOR ALL STOP SIGNS WITHIN THE MOA, AND ALL POSTS WITH A SINGLE SIGN PANEL THAT ARE 30" WIDE OR LESS. ALL OTHER STOP SIGN POSTS OUTSIDE THE MOA SHALL BE ON A 3" TUBE.



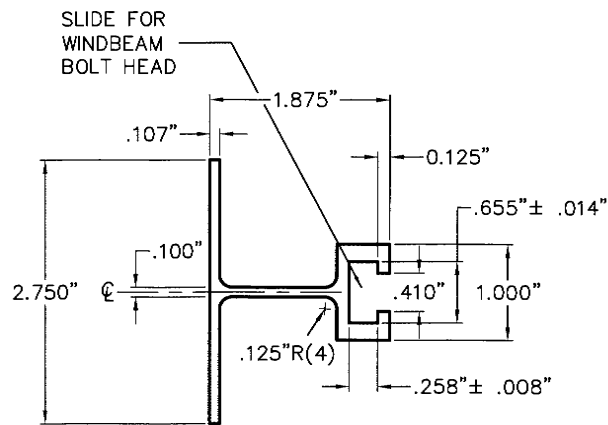
SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM



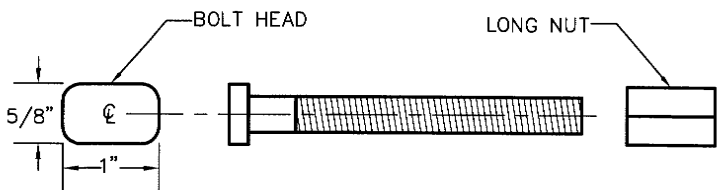
VIEW C - C



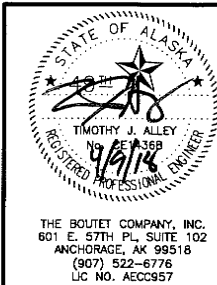
R6-1 ONEWAY SIGN FRAMING DETAIL
PLAN VIEW



SECTION B - B WINDBEAM CROSS SECTION



3/8" WINDBEAM BOLT AND LONG NUT



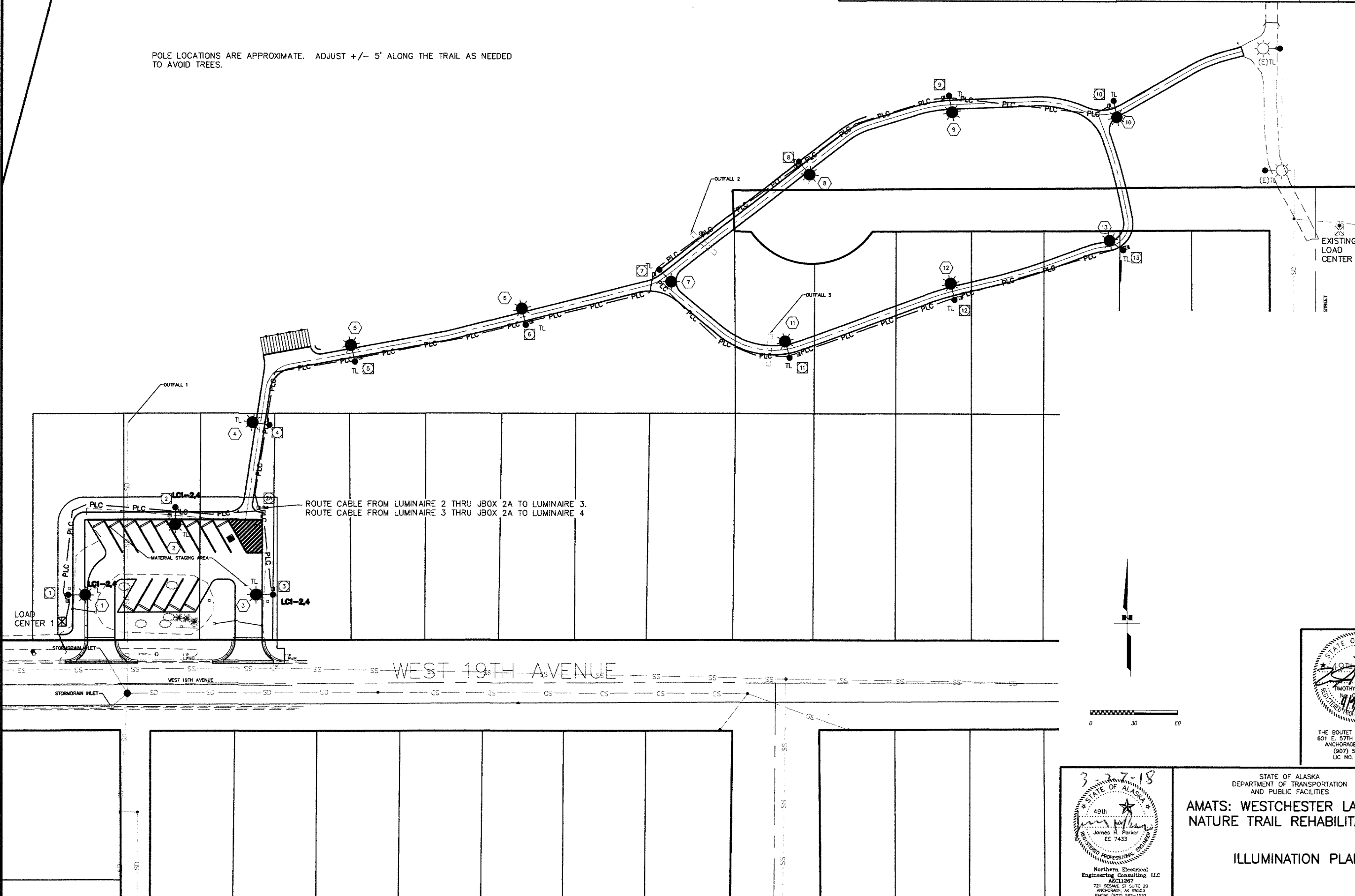
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION**

**LIGHT SIGN FRAMING AND
ATTACHMENT DETAILS**

FILE: \\JIM\SERVER\DRAWINGS\BOUTET\WESTCHESTER SULLIVAN\ELECTRICAL\WESTCHESTER SULLIVAN TRAIL.DWG DATE/TIME: 2/27/2018 10:17AM LAYOUT: H7 DESIGNED: H7 CHECKED: DRAFTED: TA

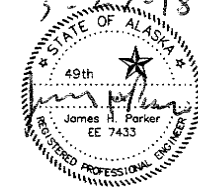
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	H7	H10

POLE LOCATIONS ARE APPROXIMATE. ADJUST +/- 5' ALONG THE TRAIL AS NEEDED TO AVOID TREES.



ROUTE CABLE FROM LUMINAIRE 2 THRU JBOX 2A TO LUMINAIRE 3.
ROUTE CABLE FROM LUMINAIRE 3 THRU JBOX 2A TO LUMINAIRE 4

3-27-18



James H. Parker
EE 7433
REGISTERED PROFESSIONAL ENGINEER

Northern Electrical
Engineering Consulting, LLC
AKCE1287
721 SESAME ST SUITE 28
ANCHORAGE, AK 99503
PHONE: (907) 562-1532

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION

ILLUMINATION PLAN



Timothy J. Alley
EE 14368
REGISTERED PROFESSIONAL ENGINEER

THE BOUTET COMPANY, INC.
601 E. 57TH PL, SUITE 102
ANCHORAGE, AK 99518
(907) 522-6776
LIC NO. AECC957

FILE \\JIM\SERVER\DRAWINGS\BOUTET\WESTCHESTER SULLIVAN\ELECTRICAL\WESTCHESTER SULLIVAN TRAIL.DWG DATE/TIME 2/27/2018 10:17AM LAYOUT H8 DESIGNED CHECKED DRAFTED 1A

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	H8	H10

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	MODEL	LAMP	BALLAST	MOUNTING	VOLTS	INPUT WATTS	TOTAL LUMENS	QUANTITY	NOTE 1	NOTE 2	NOTE 3
(E)TL		EXISTING 150W HPS, ROUND GARDCO		(1) 150W GE LUCALOX LU150	MAGNETIC		240	150	16000	2	EXISTING TO REMAIN		
TL		25" W 10-1/2" H CYLINDER LUMINAIRE SEMI-SPECULAR REFLECTOR WITH CLEAR LENS	DECO LIGHTING D805-LED-40W 40 UNV T3 RPM CU WDF 7P RAL 6013	(1) LED	ELECTRONIC	POLE	240	50	5200	13	POLE: 30FT VALMONT RTS-1FT LMA GV HH RAL6013	WITH 7 PIN CONTROL RECEPTACLE, CONTROL NODE ELWN 0 A 5 U G 5	LUMINAIRE AND CONTROL NODE SHALL BE COMPATIBLE WITH GE LIGHTGRID

CONTRACTOR TO VERIFY FIXTURE COUNT

Parking Photometric Schedule

AVERAGE FOOTCANDLES	0.85
MAXIMUM FOOTCANDLES	1.65
MINIMUM FOOTCANDLES	0.09
MINIMUM TO MAXIMUM FC RATIO	0.05
MAXIMUM TO MINIMUM FC RATIO	18.59
AVERAGE TO MINIMUM FC RATIO	9.56

Trail Photometric Schedule

AVERAGE FOOTCANDLES	0.83
MAXIMUM FOOTCANDLES	3.19
MINIMUM FOOTCANDLES	0.33
MINIMUM TO MAXIMUM FC RATIO	0.10
MAXIMUM TO MINIMUM FC RATIO	9.74
AVERAGE TO MINIMUM FC RATIO	2.52

ARC FLASH HAZARD


	LC 1
INCIDENT ENERGY (CAL/CM²)	2.3
ARC FLASH BOUNDARY (INCHES)	26.0
MINIMUM PPE	1
AVAILABLE FAULT CURRENT (AMPS)	1,886
SHOCK HAZARD EXPOSE (VOLTS)	240V

PROVIDE AN ARC FLASH LABEL AND CAUTIONARY SIGNS ON OUTSIDE OF LOAD CENTER IN ACCORDANCE WITH NFPA 70E 130.5(C).

ARC FLASH LABEL

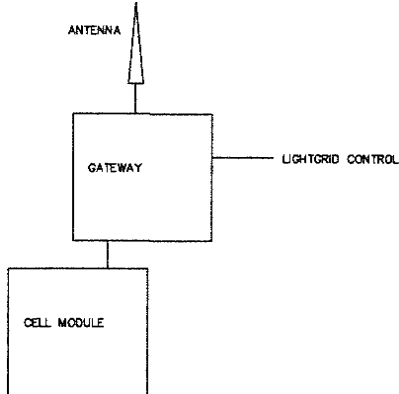
NOTES:

- COMPLY WITH 2014 EDITION OF THE NEC AND ALL MOA MODIFICATIONS. ALL WORK TO BE PERFORMED BY ALASKA LICENSED ELECTRICIANS.
- COMPLY WITH D.O.T 2017 STANDARD SPECIFICATIONS AND AS MODIFIED BY THE SPECIAL PROVISIONS.
- TRAIL LIGHT POLES: MAST ARM LENGTH 4". PARKING LOT LIGHT POLES: MAST ARM LENGTH 8". FOUNDATIONS, POLES AND ARMS SHALL BE DESIGNED FOR 100 MPH WINDS AND 130 MPH GUSTS. A COPY OF THE DESIGN COMPUTATIONS SHALL BE SUPPLIED BY THE MANUFACTURER IN ADDITION TO THE STANDARD SHOP DRAWINGS AND MATERIALS SUBMITTALS PRIOR TO INCORPORATION OF ANY LUMINAIRE, POLE OR MAST ARM INTO THE PROJECT.
- BRANCH CIRCUIT WIRE: 3C/#8 XHHW UNLESS NOTED OTHERWISE, STRANDED COPPER WITH OVERALL POLYETHYLENE JACKET. ALL TAPS AND SPLICES SHALL BE DIRECT BURIAL RATED. PROVIDE A #8 GROUND WIRE IN ALL CONDUITS.
- CONDUIT SCHEDULE: 2" HDPE BETWEEN LUMINAIRE JUNCTION BOXES. 2" RIGID STEEL CONDUIT (RSC) BETWEEN LOAD CENTER AND JUNCTION BOX, BETWEEN LUMINAIRE POLE AND JUNCTION BOX, AND UNDER ASPHALT. CONDUIT SHALL BE BURIED 30".
- JUNCTION BOXES: TYPE 1A WITH "LIGHTING" ON COVER. PROVIDE A GROUND ROD IN EACH J BOX AT LUMINAIRE POLES. LOCATE ON THE LEFT SIDE OF THE POLE AS VIEWED FROM THE FRONT.
- HAND HOLES ON THE POLES SHALL BE ON THE LEFT SIDE OF THE POLE AS VIEWED FROM THE FRONT.
- INSERT A LAMINATED COPY OF THE CIRCUIT DIRECTORY, POWER AND CONTROL ONE LINE DIAGRAM INSIDE OF THE LOAD CENTER.
- PROVIDE SCOTCHCAL 220 LABELS ON FRONT OF LOAD CENTER "LU" AND "MOA".
- PROVIDE A PHENOLIC LAMINATED LABEL "AVAILABLE SHORT CIRCUIT CURRENT OF 1,886 AMPS, CALCULATED 6/8/2017". MOUNT ON EXTERIOR OF LOAD CENTER.
- ALL POLES ARE FIXED BASE.

LOAD CENTER NO. LC1												
TYPE: 1A				LOCATION:				4 POLE, 30 AMP CONTACTOR				
100 AMPS MAIN LUGS, MLO MAIN BREAKER				240/120V 2P 3W SINGLE PHASE 3 WIRE								
10,000 AMPS INTERRUPT CAPACITY 1,886				AVAILABLE FAULT CURRENT UTILITY: ML&P								
CKT. DESCRIPTION		BRKR	KVA	AMPS			AMPS	KVA	BRKR	CKT. DESCRIPTION		
MAIN		100/2	0	0			0.781	0.15	20/2	LIGHTING		
LIGHTING CONTROL		20/2	0.01	0.052			0	0	-1	SPACE		
GE LIGHTGRID		20/2	0.1	0.521			0	0	-1	SPACE		
							0	0	-1	SPACE		
TOTAL CONNECTED KVA BY PHASE: A: 0.13				B: 0.13				TOTAL CONNECTED AMPS BY PHASE: A: 1.08				B: 1.08
		CONN. KVA	NEC CALC. KVA						CONN. KVA	NEC CALC. KVA		
LIGHTING		0.26	0.325 (125%)				HEATING		0	0 (100%)		
LARGEST MOTOR		0	0 (125%)				CONTINUOUS		0	0 (125%)		
OTHER MOTORS		0	0 (100%)				NONCONTINUOUS		0	0 (100%)		
RECEPTACLES		0	0 (50%>10)				NONCON/DIVERSE		0	0 (N/A)		
							TOTAL KVA		0.26	0.325		
BALANCED PHASE AMPS: 1.35 (100% OF NEC CALCULATED KVA)												
ML&P PHASE BALANCE PERCENT: PHASE A: 100% PHASE B: 100%												

LOAD CENTER NOTES:

- PROVIDE GENERAL ELECTRIC LIGHTGRID CONTROL SYSTEM AT LOAD CENTER FOR LIGHTING CIRCUIT 2.4.
- MOUNT GATEWAY AND CELL MODULE AT LOAD CENTER.
- PROVIDE ONE GATEWAY IN ENCLOSURE WITH ANTENNA, PART NUMBER ELWN 0 C X
- PROVIDE ONE CELL MODULE.
- PROVIDE ONE NODE AT EACH LUMINAIRE, PART NUMBER ELWN 0 A 5 U G 5.



1

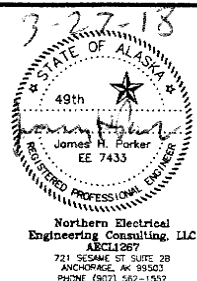
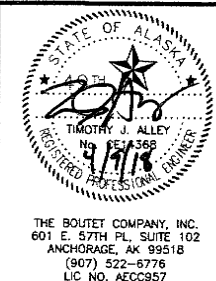
LIGHTGRID DIAGRAM

SCALE: NONE

LUMINAIRE STATIONING

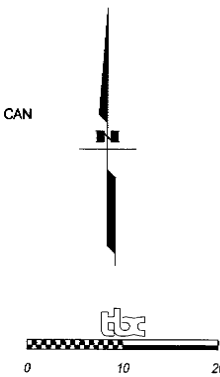
LUMINAIRE #	MOUNTING HEIGHT	NORTHING	EASTING	ALIGNMENT	STATION	OFFSET	SIDE	NOTES
1	30	2631840.34	1657249.89					PARKING LOT
2	30	2631898.41	1657321.13					PARKING LOT
3	30	2631840.45	1657386.46					PARKING LOT
4	30			"WLNT"	10+65.25	6.16	R	TRAIL
5	30			"WLNT"	11+55.96	6.00	R	TRAIL
6	30			"WLNT"	12+72.44	5.75	R	TRAIL
7	30			"WLNT"	13+70.81	6.00	L	TRAIL
8	30			"WLNT"	14+88.88	6.00	L	TRAIL
9	30			"WLNT"	15+96.91	6.00	L	TRAIL
10	30			"WLNT"	17+11.29	7.66	L	TRAIL
11	30			"SL"	2+01.09	6.00	R	TRAIL
12	30			"SL"	3+17.59	6.00	R	TRAIL
13	30			"SL"	4+33.88	6.00	R	TRAIL

POLE LOCATIONS ARE APPROXIMATE. ADJUST +/- 5' ALONG THE TRAIL AS NEEDED TO AVOID TREES.



STATE OF ALASKA
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AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION


















ILLUMINATION SCHEDULES

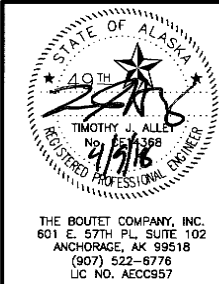


PARKING LOT SIGNAGE AND STRIPING LAYOUT

FILE \\W:\WASILLAPLES\WESTCHESTER BOARDWALK\ACAD\TBC ACAD\WINT-BASE-TBC-PATH AND PARKING-02242018-FINAL.DWG DATE/TIME 4/2/2018 3:55 PM LAYOUT H10 DESIGNED TA CHECKED TJ DRAFTED TA

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	H10	H10

SIGN SUMMARY TABLE										
NO.	NORTHING	EASTING	TYPE	LEGEND	WIDTH (INCHES)	HEIGHT (INCHES)	AREA (SF)	DIRECTION	POST TYPE	REMARKS
1	2631815.81	1657243.38	BIKE PATH ENDS WARNING		24	24	4	W	2.5" PTS	
2	2631810.81	1657260.42	R6-1R		36	12	3	W	2.5" PTS	
			R6-1L		36	12	3	E		
			R1-1		30	30	6.25	N		
			R5-1		30	30	6.25	S		
3	2631810.81	1657281.41	R6-1R		36	12	3	W	2.5" PTS	
			R6-1L		36	12	3	E		
			R5-1		30	30	6.25	S		
4	2631810.67	1657358.92	R6-1L		36	12	3	W	2.5" PTS	
			R6-1R		36	12	3	E		
5	2631844.13	1657359.40	R5-1		30	30	6.25	N	2.5" PTS	
6	2631890.41	1657351.05	R7-8		12	18	1.5	S 30° E	2.5" PTS	
			R7-8A		12	6	0.5			
7	2631890.41	1657367.75	R7-1		12	18	1.5	S	2.5" PTS	
8	2631900.41	1657364.55	R5-6		24	24	4	S 9° W	2.5" PTS	
					18	12	1.5			
					12	12	1			
						TOTAL (SF) =	57			



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION**

SIGN SUMMARY TABLE

FILE P:\15-128 WESTCHESTER LAGOON NATURE TRAIL 2-CAD DRAWINGS\BN_WINT_PARKING LOT_LA_PLANDWG DATE/TIME 4/9/2018 1:10 PM LAYOUT L1 DESIGNED CHECKED DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	L1	L2

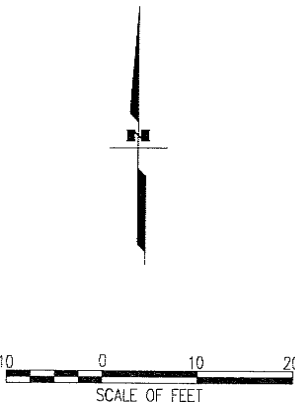
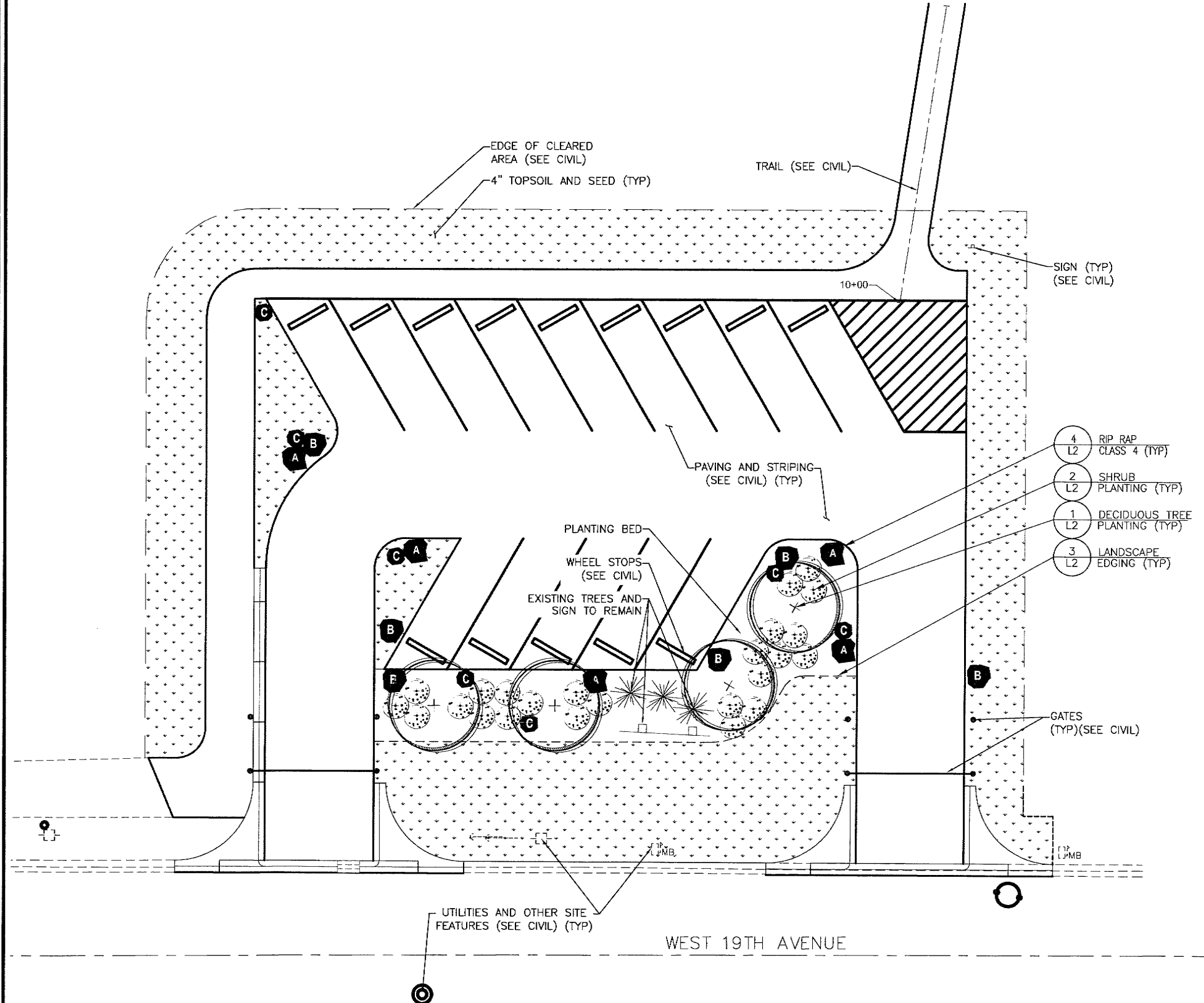
PLANT SCHEDULE

DECIDUOUS TREES						
QTY.	SYMBOL	ABBR. LATIN NAME	COMMON NAME	SIZE	FURNISHING NOTES	
4		BP BETULA PAPYRIFERA	PAPER BIRCH	2" CALIPER	B&B	SINGLE STEM

SHRUBS						
QTY.	SYMBOL	ABBR. LATIN NAME	COMMON NAME	SIZE	FURNISHING NOTES	
24		RG ROSA RUGOSA	RUGOSA ROSE	24" HEIGHT	POTTED	N/A

MISCELLANEOUS						
QTY.	SYMBOL	DESCRIPTION	NOTES	QTY.	SYMBOL	DESCRIPTION
		LANDSCAPE EDGING	ALUMINUM	18		RIP RAP (CLASS 4)
		4" TOPSOIL AND SEED MIX				SIZE VARIES: 2.5'Ø TO 4'Ø

- GENERAL NOTES:
1. IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN THE PLANS OR ON THE SITE. MODIFICATIONS IN THE FIELD SHALL NOT BE MADE UNTIL APPROVAL HAS BEEN GRANTED BY ENGINEER.
 2. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDERS AND VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
 3. SEE CIVIL FOR EXISTING AND PROPOSED UTILITIES.
 4. ALL PLANTS SHALL BE NURSERY GROWN UNLESS OTHERWISE STATED.
 5. ALL PLANTINGS BEDS SHALL RECEIVE 18" TOPSOIL AND 3" DEPTH SHREDDED BARK MULCH.
 6. PROVIDE MOOSE PROTECTION FENCING FOR ALL DECIDUOUS TREES PER DETAIL 5/L2.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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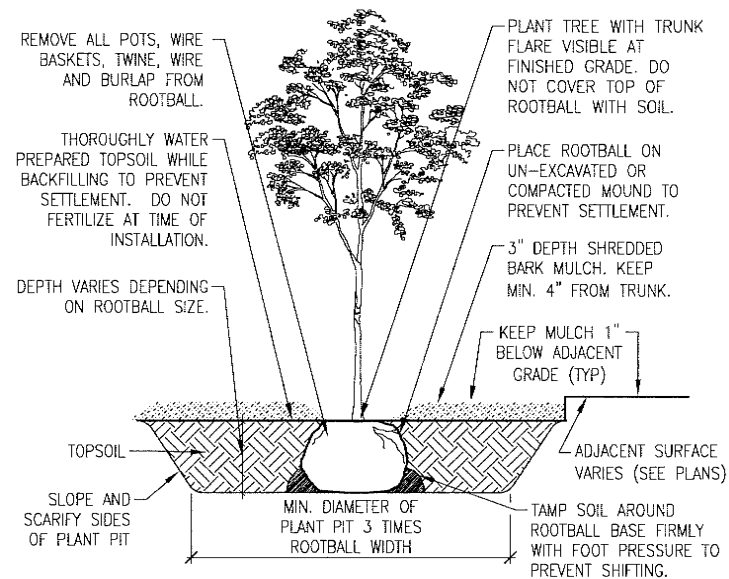
AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION

LANDSCAPE PLAN

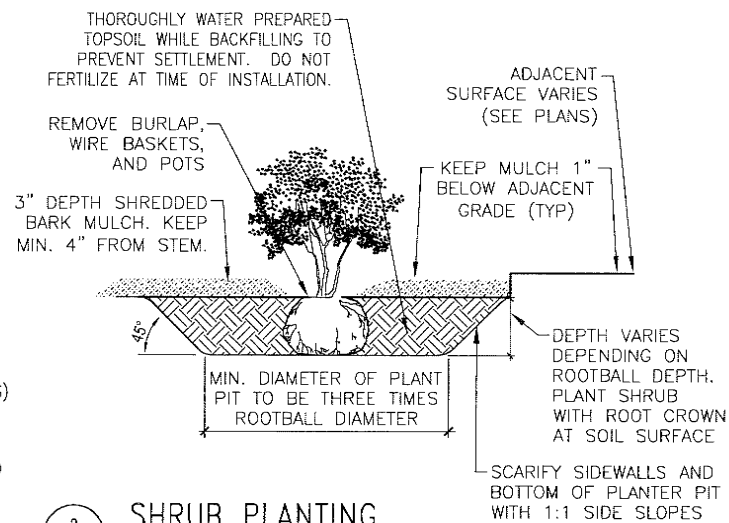
BETTSWORTH NORTH
2600 DENALI STREET, SUITE 710
ANCHORAGE, AK 99503
(907) 561-5780
LIC. NO. AEC219

FILE: P:\15-128 WESTCHESTER LAGOON NATURE TRAIL\2-CAD\DRAWINGS\BN_WLNT_PARKING LOT_LA_PLANDWG DATE/TIME 4/9/2018 1:11 PM LAYOUT L2 DESIGNED CHECKED DRAFTED

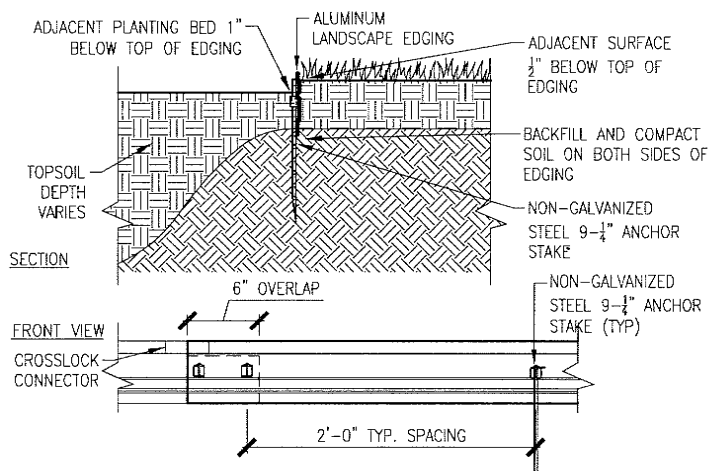
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18001/CFHWY00166	2018	L2	L2



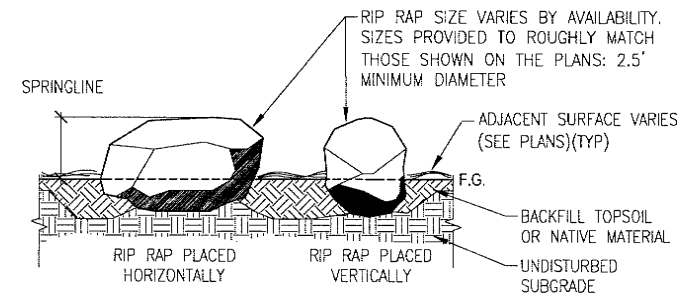
1
L2
NTS
DECIDUOUS TREE PLANTING



2
L2
NTS
SHRUB PLANTING



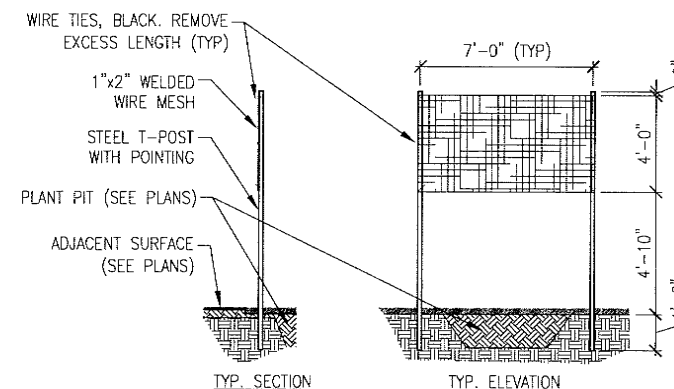
3
L2
NTS
LANDSCAPE EDGING



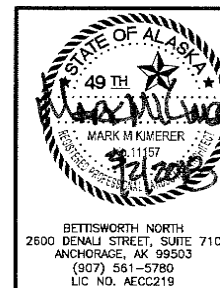
- NOTES:
- 1) MAX. 2/3 RIP RAP HEIGHT ABOVE GROUND, MIN. 1/3 HEIGHT.
 - 2) FILL TO ENSURE NO GAPS BELOW SPRINGLINE.

4
L2
NTS
RIP RAP (CLASS 4)

- NOTES:
1. MOOSE PROTECTION FENCING REQUIRED AROUND ALL NEW DECIDUOUS TREES.
 2. FOR INDIVIDUAL TREES, 3 POSTS REQUIRED PER TREE.
 3. FOR TREE GROUPINGS, PLACE T-POSTS SO THAT MESH DOES NOT TOUCH BRANCHES.

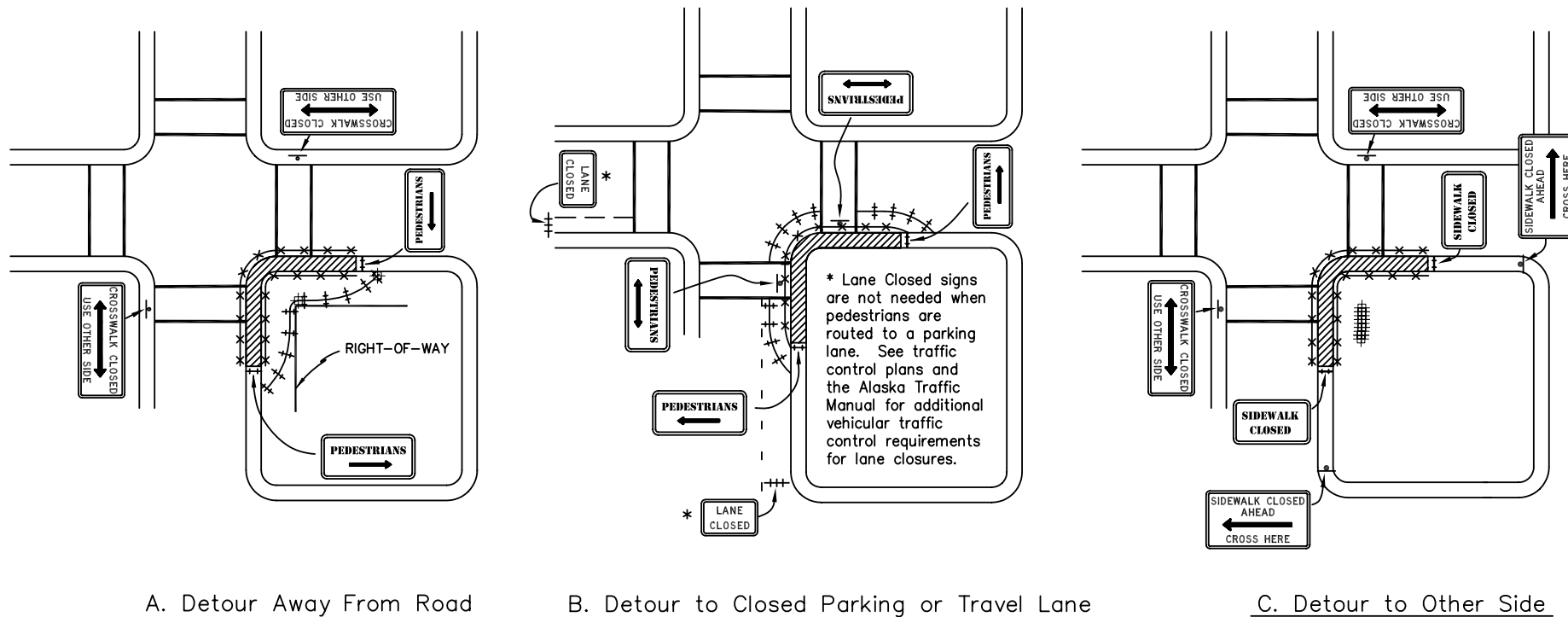


5
L2
NTS
MOOSE PROTECTION FENCING



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: WESTCHESTER LAGOON
NATURE TRAIL REHABILITATION**

LANDSCAPE DETAILS

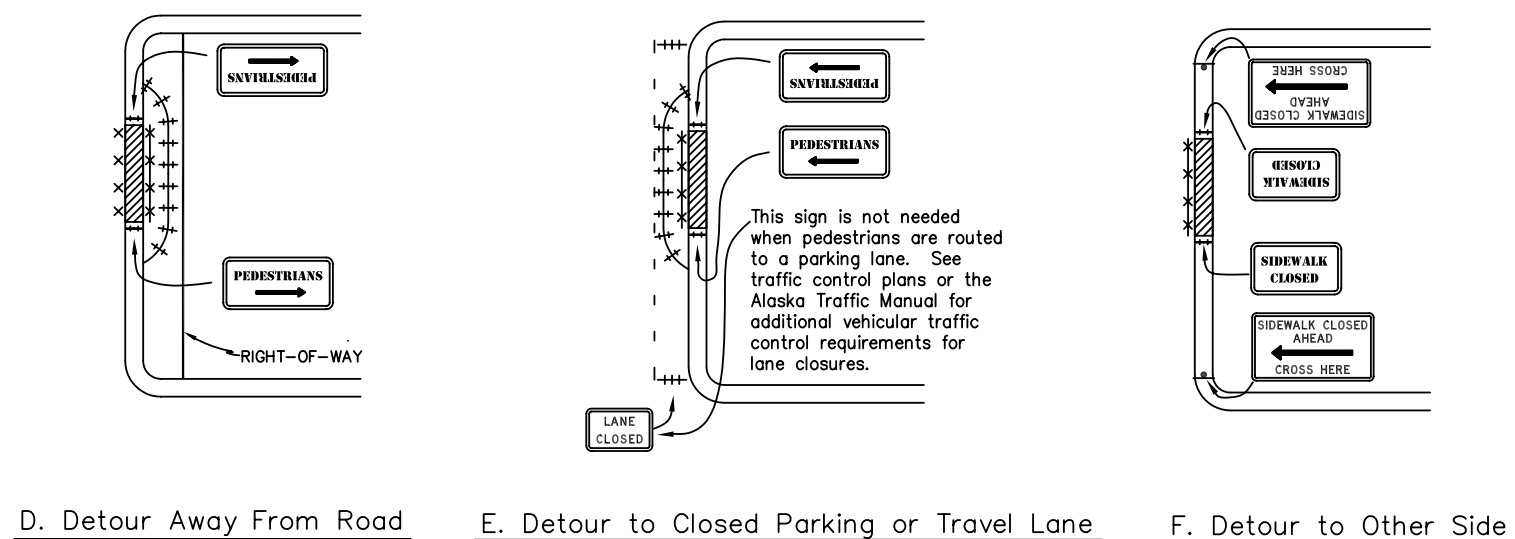


NOTES.

1. Provide pedestrian traffic control devices when sidewalks or pathways are closed to pedestrians and where required by the Plans or Specifications.
2. Avoid routing pedestrians across roads unnecessarily. Use detail C or F only when it is not practical to use detail A, B, D, or E.
3. Maintain a minimum pedestrian facility width of 5 feet or the width of the facility that existed before construction, whichever is less.
4. Where the posted speed limit exceeds 45 MPH, separate pedestrians from roadway edge of pavement or face of curb by at least 5'. Where that is not feasible, install portable concrete barrier between pedestrians and the road.
5. When pedestrian traffic control devices required by the current traffic control plan are not in place or are temporarily removed, provide a worker to direct pedestrians through the work area.
6. Cover pedestrian traffic signal displays controlling closed crosswalks.
7. This sheet focuses on traffic control devices for pedestrians. Look elsewhere for vehicular traffic control requirements.
8. When using details C and F, route pedestrians to the best crossing point near the work area.

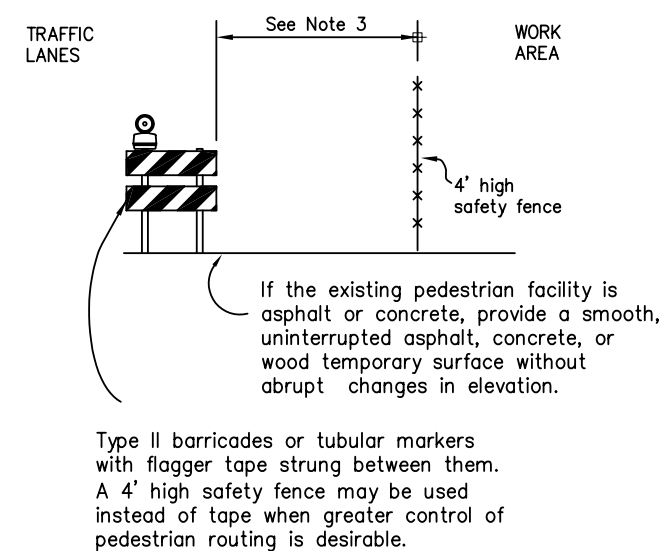
INTERSECTION SIDEWALK PATHWAY OR SHOULDER CLOSURE

A to C In Order of Preference








MID-BLOCK SIDEWALK PATHWAY OR SHOULDER CLOSURE

D to F In Order of Preference



PEDESTRIAN DETOUR
TYPICAL SECTION


LEGEND:

- | | |
|---|-------------------------------------|
|  | Type II Barricade or Tubular Marker |
|  | Type III Barricade |
|  | Safety Fence |
|  | Sign |
|  | Work Area |

REVISONS		
Date	Description	By

<p>Sheet 1 of 1</p> <p>State of Alaska Department of Transportation & Public Facilities</p> <p>PEDESTRIAN TRAFFIC CONTROL</p>
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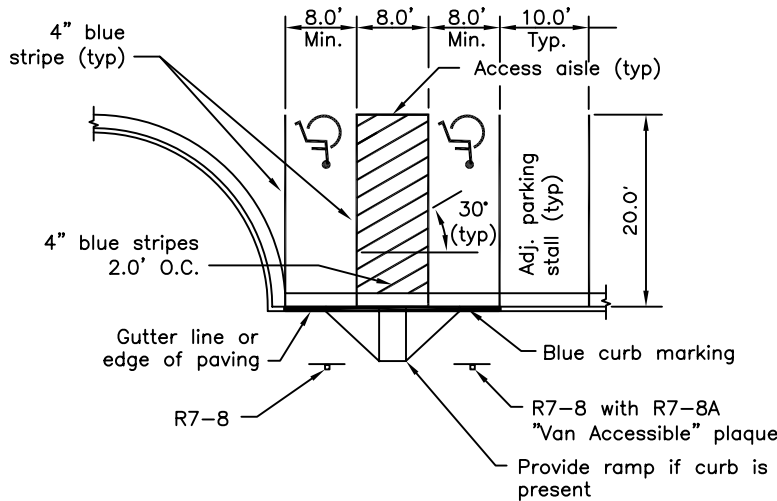
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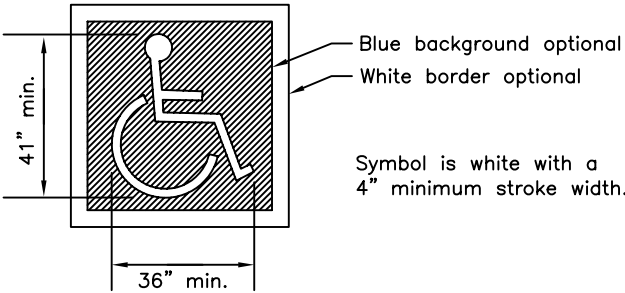
Date 5/15/01

GENERAL NOTES:

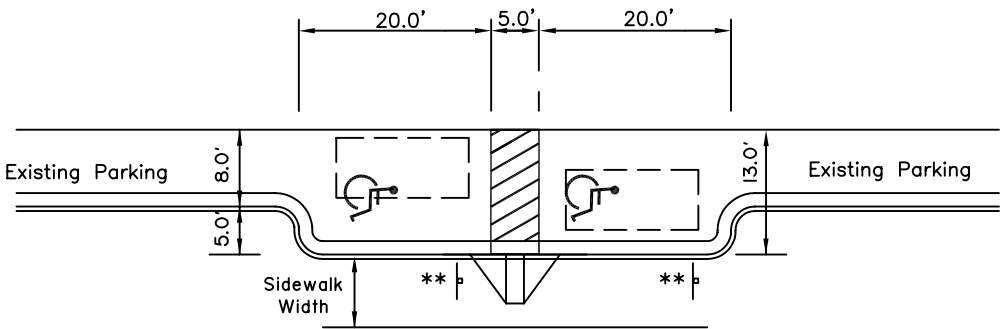
- 1. Accessible aisles and accessible routes and those pathways leading from the accessible parking space to the sidewalk shall be free of any obstructions, fixtures or loose surfaces.
- 2. See standard drawing I-20, I-21, I-22 for curb and curb ramp details.
- 3. All curb ramps shall be constructed of concrete.
- 4. The slope for all accessible parking spaces, van accessible parking spaces and access aisles shall not exceed 50:1 in any direction.
- 5. Although only perpendicular ramps are shown, either parallel or perpendicular ramps are allowable, space permitting.



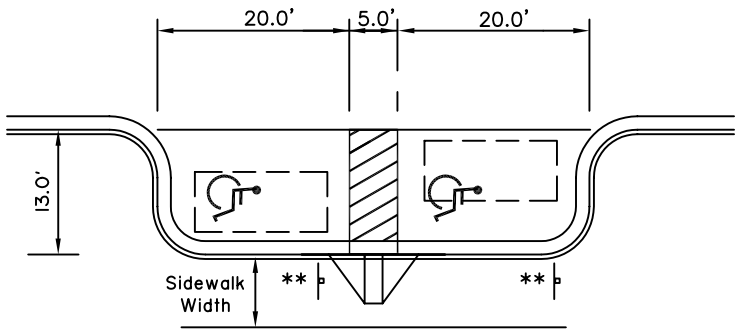
PARKING LOT ACCESSIBLE PERPENDICULAR PARKING



PAVEMENT MARKING SYMBOL DETAIL



ACCESSIBLE ON-STREET PARALLEL PARKING PARTIAL INSET



ACCESSIBLE ON-STREET PARALLEL PARKING FULL INSET

ON-STREET PARALLEL PARKING NOTES

- 1. The 13' width provides for 8' wide parking with a 5' wide access aisle on either side of a car.
- 2. Add a new curb ramp and 5' aisle between parking places for each additional two accessible parking spaces.
- 3. Parking spaces may be made van accessible by providing an unobstructed 8' sidewalk width next to each parking space. Ensure curb ramps, parking meters, sign posts, etc. do not encroach on the area where a van's lift would operate.
- 4. In some cases, ADAAG may allow normal-width parking spaces at the beginning and end of blocks to be designated as accessible. See the latest ADAAG.

** R7-8 "Reserved Parking" and, where appropriate (see note 3), R7-8A, "Van Accessible".

REVISIONS		
Date	Description	By

Sheet 1 of 1

State of Alaska
Department of Transportation
& Public Facilities

ACCESSIBLE PARKING

Matthew J. Smith
CE-7547

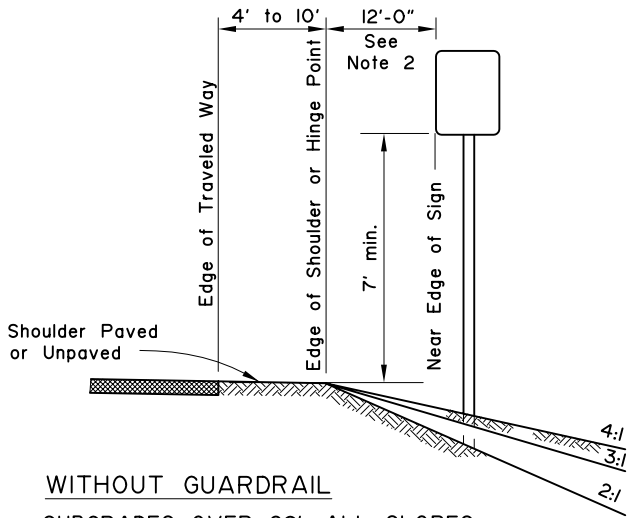
APPROVED

Timothy G. Miller
CE-9649

Date 2/28/03

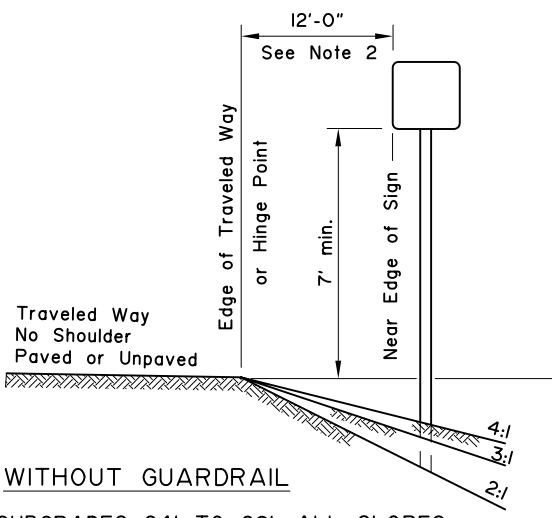
GENERAL NOTES

1. Unless shown otherwise on the plans, the standard sign offset is 12'. The minimum is 6'.
2. If signs extend over sidewalks, the minimum vertical clearance is 7'-0".
3. Add 6" to mounting height on unpaved roads.
4. If signs extend over bike paths, the minimum vertical clearance is 8' 0".
5. When signs are placed 30' or more from the edge of traveled way, mount them with the bottom of the sign at least 5' above the road surface at the near edge of the road.
6. When multiple hinged sign supports are used, mount hinges at least 7' above the ground.



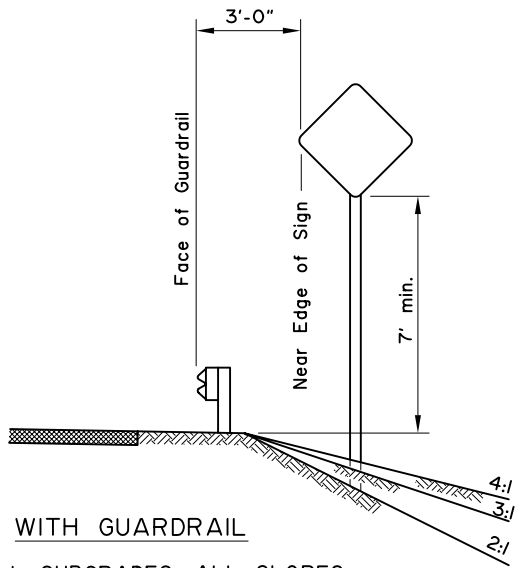
WITHOUT GUARDRAIL

SUBGRADES OVER 28', ALL SLOPES



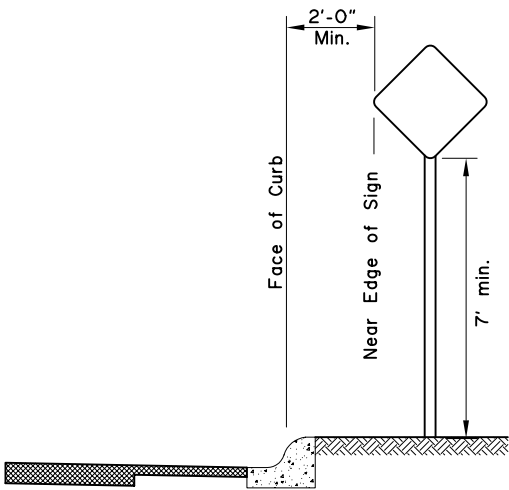
WITHOUT GUARDRAIL

SUBGRADES 24' TO 28', ALL SLOPES

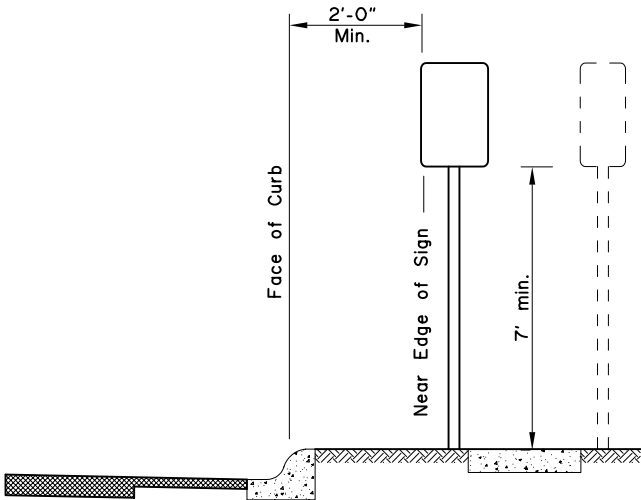


WITH GUARDRAIL

ALL SUBGRADES, ALL SLOPES

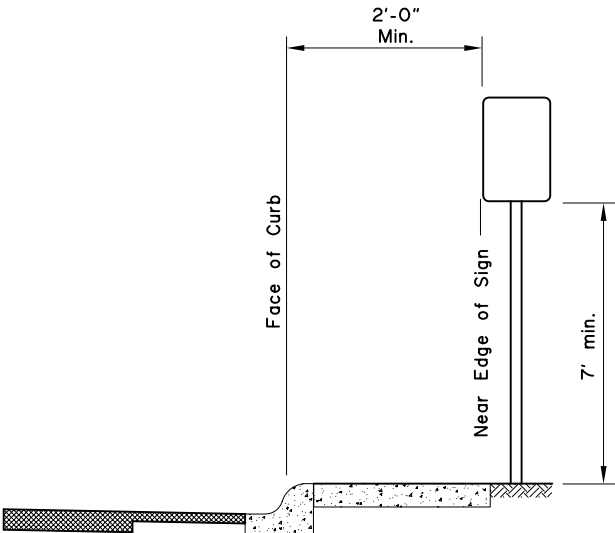


CURB WITHOUT SIDEWALK

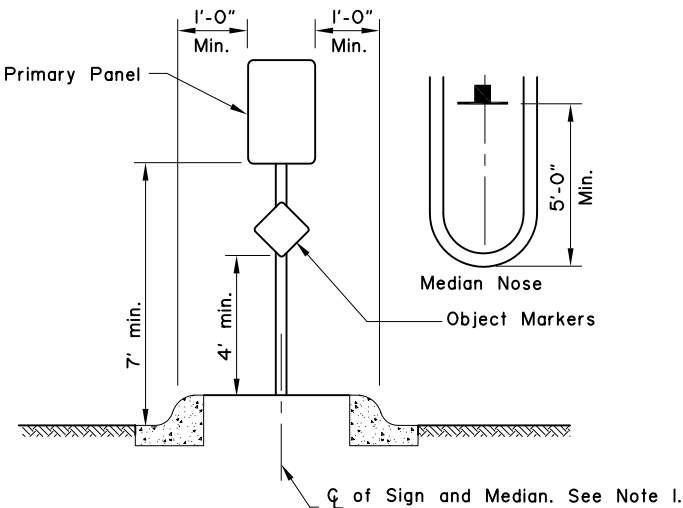


CURB WITH PARKWAY AND SIDEWALK

(If R/W width permits, signs should be placed behind sidewalk.)

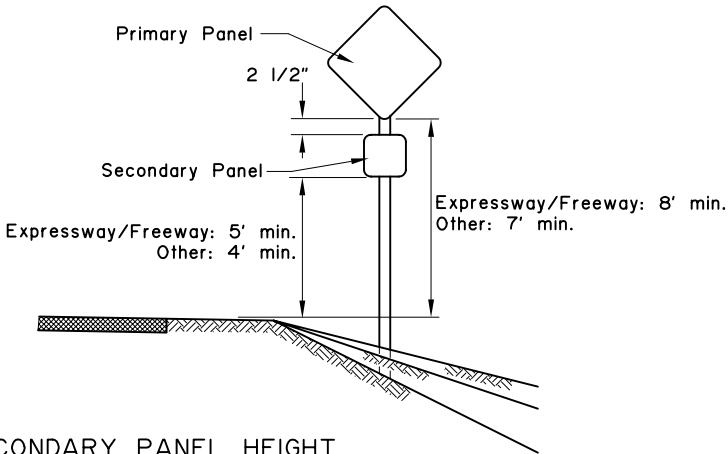


CURB WITH SIDEWALK WITHOUT PARKWAY



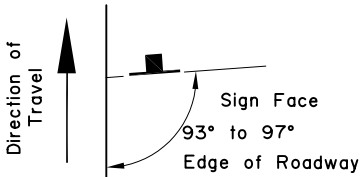
RAISED MEDIANS

Minimum 4' Width for Signing



SECONDARY PANEL HEIGHT

ALL TWO PANEL MOUNTING



SIGN POSITIONING

REVISIONS		
Date	Description	By
4/3/01	Revised Sign Heights	KJS

Sheet 1 of 1

State of Alaska
Department of Transportation
& Public Facilities

POST MOUNTED SIGN
OFFSET AND HEIGHT

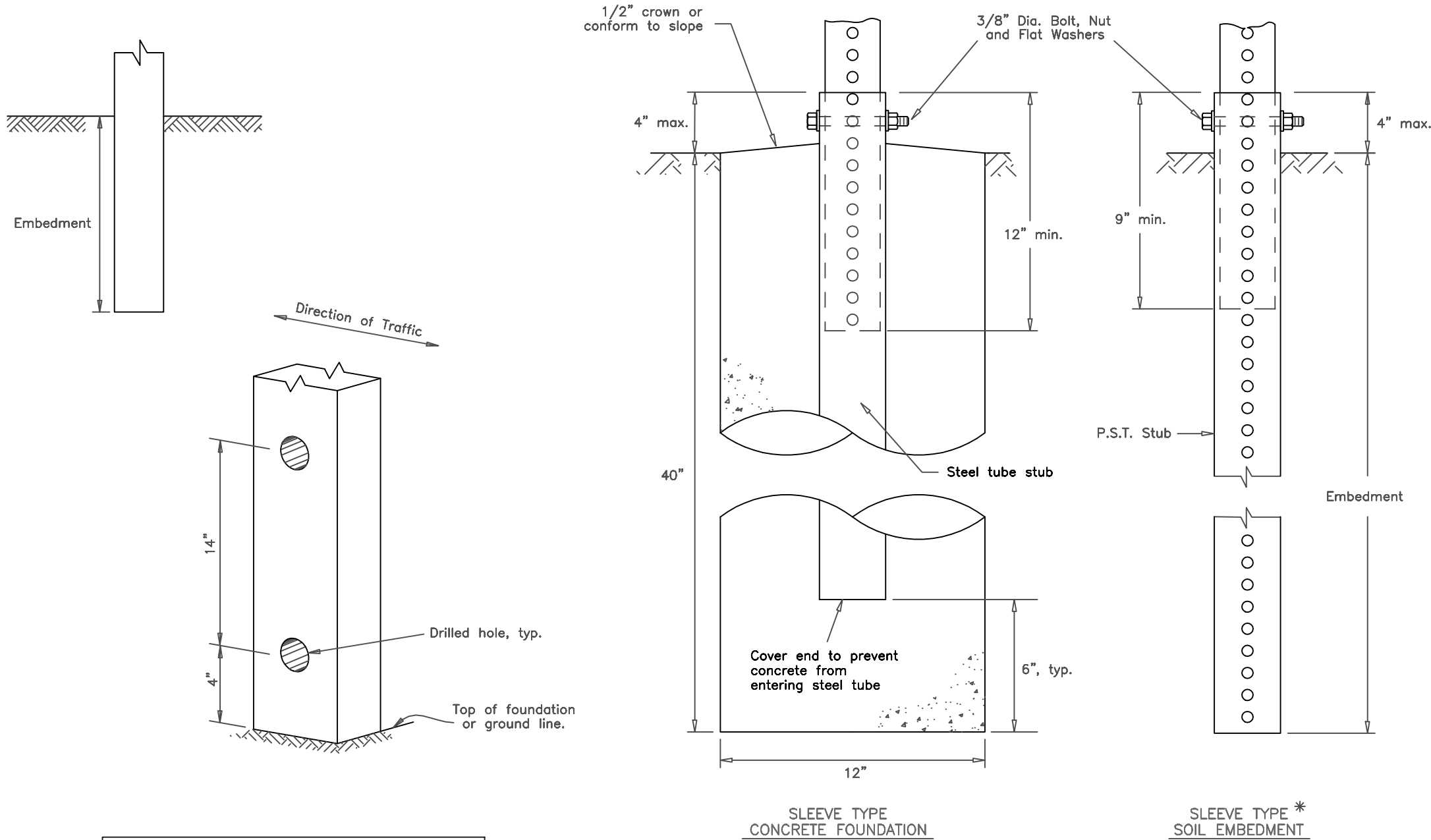
APPROVED



Date 7/15/82

GENERAL NOTES:

- 1. Refer to Std Dwg S-00 for sign framing details.
- 2. See plans for type of post, size and embedment type.
- 3. To maintain crashworthiness, install no more than the number of P.S.T.s or wood posts specified in the tables within 7' of each other.
- 4. Do not install wood posts larger than 6"x8".
- 5. Do not use the supports on this drawing for multiple support signs if supports are separated by more than 7 feet.
- 6. Treat all field cuts and field drilled holes in wood posts in accordance with Section 730-2.04 of the Standard Specifications.



WOOD SIGN POSTS			
SIZE	HOLE DIA.	EMBEDMENT*	NO. OF POSTS WITHIN 7 Ft. PATH
4"x4"	NONE	36"	2
4"x6"	1 1/2"	36"	2
6"x6"	1 1/2"	40"	1
6"x8"	3"	48"	1

* Embedment depth applies in both strong and weak soil.

WOOD POSTS

PERFORATED STEEL TUBES (P.S.T.)		
POST SIZE	Embedment Depth	No. of P.S.T.s permitted within 7 ft path
1 1/2" x 1 1/2"	3'-0"	2
1 3/4" x 1 3/4"	3'-0"	2
2" x 2"	3'-6"	2
2 1/4" x 2 1/4"	4'-0"	1
2 1/2" x 2 1/2"	4'-6"	1

* Use 3"x3"x3/16" Stub for 2 1/2"x2 1/2" PST Applications.

PERFORATED STEEL TUBE (PST) POSTS

REVISIONS		
Date	Description	By
4/2/01	Revised PST table Added Note 3	KJS
2/12/02	Revised wood posts	KJS
1/16/17	Rev. note 1, et. al.	LRG

State of Alaska DOT&PF
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Phone: (907) 465-2960

LIGHT SIGN STRUCTURE
POST EMBEDMENT



Eff. Date:
1/16/17