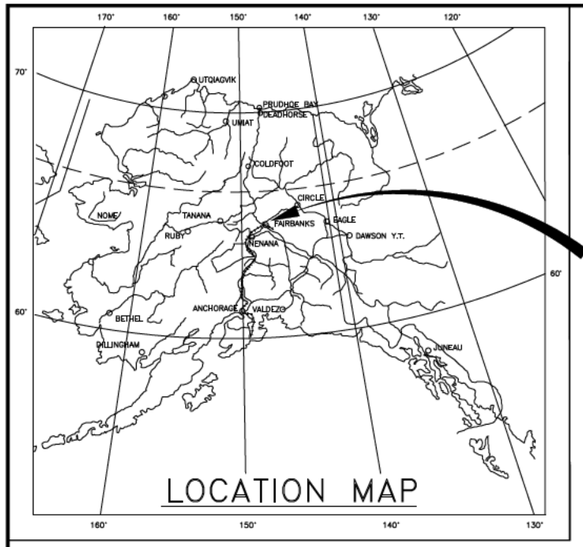


PROJECT LOCATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT
NFHWY00290/0640012
COLLEGE ROAD BUS PULLOUTS
FAIRBANKS, ALASKA

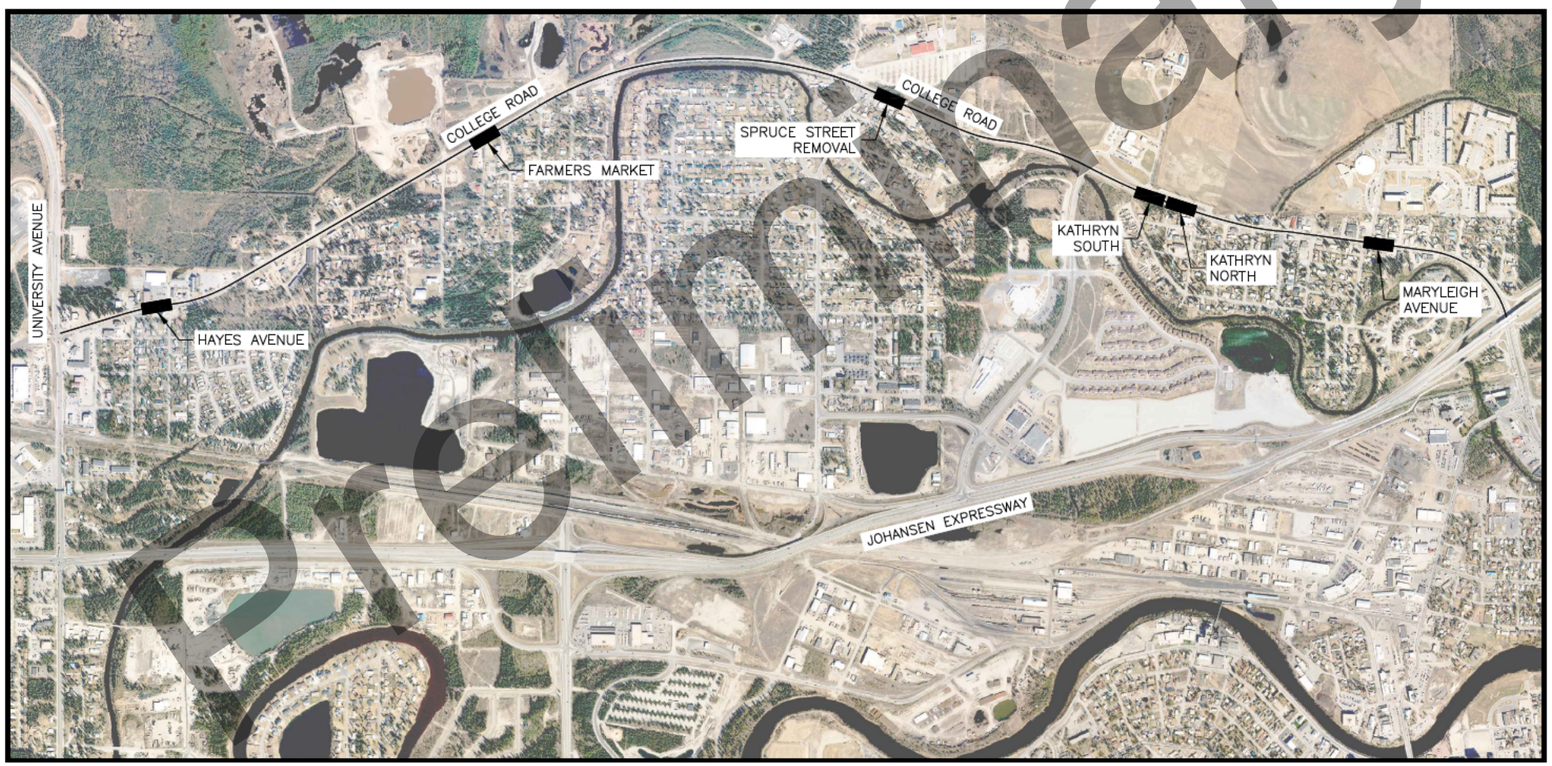
GRADING, DRAINAGE, PAVING & SIGNING

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	A1	39

CDS ROUTE: 150100 MILEPOINT: 0.95 TO 4.1063

INDEX OF SHEETS



DESIGN DESIGNATIONS

ADT (2018)	11,500
ADT (2040)	13,500
DHV (2040)	2,070
PERCENT TRUCKS (T)	3.85
DIRECTIONAL SPLIT (D)	45/55
DESIGN SPEED (V)	40 MPH
DESIGN ESAL'S (2022)	1,118,274

PROJECT SUMMARY

WIDTH OF PAVEMENT	12' BUS LANE
LENGTH OF PAVEMENT	166' PER BUS PULLOUT

JOHN NETARDUS, P.E., PROJECT MANAGER

HWYS TITLE SHEET
P:\2018\18060FB-DOT_CollegeRd\C\c10001cnst180060FB-Title Thu, Mar/19/20 02:26pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	A2	A9

	RECOVERED	SET
BLM MONUMENT	✠	
GLO MONUMENT	⊕	
USC&GS MONUMENT	▲	
PRIMARY MONUMENT	⊕	✠
CENTERLINE MONUMENT IN CASING	⊕	✠
PRIMARY R.O.W. MONUMENT	⊕	✠
BEARING OBJECT	✳	
MISCELLANEOUS MONUMENT	⊗	
LINE OF SIGHT MONUMENT		⊕
CONCRETE R.O.W. MONUMENT	■	
BENCHMARK		BM
REBAR AND CAP	⊙	⊙
REBAR	⊕	●
IRON PIPE	⊙	
PK NAIL		▽
SPIKE		✳
HUB AND TACK		⊡

	EXISTING	PROPOSED
CONSTRUCTION CENTERLINE	5+00	
MISCELLANEOUS CENTERLINE	10+00	
STATION EQUATION	"L"48+97.23 POT BK= "O"48+97.23 PC AHD	
PROJECT RIGHT-OF-WAY LINE	R/W	
EXISTING RIGHT-OF-WAY LINE		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE	C/A	
UTILITY EASEMENT LINE	PUE	
TEMPORARY EASEMENT LINE (TCP OR TCE)	TCP	
ACCESS OR SECTION LINE EASEMENT	ACCESS EASEMENT	
PROPOSED CUT SLOPE LIMIT		
PROPOSED FILL SLOPE LIMIT		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
TOWNSHIP & RANGE LINE	T. 2 N. / T. 1 N.	T. 1 E. / T. 2 E.

	EXISTING	PROPOSED
SANITARY SEWER (FLOW DIRECTION →)	SS	SS
FUEL LINE	O	O
GAS LINE	G	G
WATER LINE	W	W
METER, VALVE, FIRE HYDRANT	W	W
EXISTING STORM DRAIN (FLOW DIRECTION →)	SD	
PROPOSED STORM DRAIN		S-10, S-11, P-11, P-10, MH
FIBER OPTIC LINE	FO	
DIRECT BURIAL TELEPHONE CABLE	T	T
DIRECT BURIAL ELECTRIC CABLE	E	E
ELECTRIC LINE (OVERHEAD)		
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
STUB POLE (POWER OR TELEPHONE)		
TELEPHONE DUCT	T	T
TELEPHONE PEDESTAL		
BURIED CABLE MARKER		
PIPELINE MARKER OR VALVE		
CATCH BASIN OR DROP INLET		
MANHOLE	MH	MH
SANITARY SEWER CLEAN OUT		

	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE		
FENCE		
CURB AND GUTTER		
DETECTABLE WARNINGS		
GUARDRAIL		
CULVERT PIPE		
SIGN		
MAILBOX	MB	MB
RAILROAD TRACKS		
RAILROAD DEVICES	CROSS-BUCK, FLASHING LIGHT, CANTILEVER, SWITCH	
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS	H	H = HOUSE, G = GARAGE, M = MERCHANT/STORE, B = BARN, S = SHED, P = PRIVY, SS = SERVICE STATION, W = WAREHOUSE
POST OR BOLLARD		
WELL OR MONITORING WELL	W	
SEPTIC PIPE	S, VM	
FUEL TANK FILL PIPE/VENT	P	
SATELLITE DISH	SAT. DISH	
TEST HOLE	TH	
CONIFER TREE		
DECIDUOUS TREE		
GRAVE		
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		
DELINEATOR/GUIDE MARKER		

	EXISTING	PROPOSED
JUNCTION BOX, TYPE IA		5
JUNCTION BOX, TYPE II		6
JUNCTION BOX, TYPE III		3
SIGNAL FACE, VEHICULAR	42	42
SIGNAL FACE, BACKPLATE	42	42
SIGNAL FACE, LEFT TURN, BACKPLATE	43	43
SIGNAL FACE, PEDESTRIAN		
LOOP DETECTOR	33	73
VIDEO DETECTOR	2	2
RADAR DETECTOR	4	4A
OPTICOM DETECTOR	1	1
PEDESTRIAN PUSH BUTTON	1	1
SIGNAL POST W/O MAST ARM		1
SIGNAL POLE W/MAST ARM		4
SIGNAL CONTROLLER		
LOAD CENTER		
LUMINAIRE		2
RIGID METAL CONDUIT		

LEGEND

P:\2018\18060FB-DOT_CollegeRd\C\c10002cnst180060FB-HWYS Legend Thu, Mar/19/20 02:27pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	A3	A9

GENERAL NOTES

1. APPROACH LOCATIONS; LENGTHS AND LOCATIONS OF CULVERTS AND STORM DRAIN SHOWN ON THESE PLANS ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
2. RESTORE ALL DISTURBED AREAS DUE TO CONTRACTORS WORK OUTSIDE THE CLEARING AND GRUBBING LIMITS SHOWN ON THE PLANS. PAYMENT FOR THIS WORK SHALL BE SUBSIDIARY TO THE RESPECTIVE BID ITEM.
3. SAWCUT ALL MATCH LINES WHERE NEW CONSTRUCTION ABUTS EXISTING ASPHALT. APPLY STE-1 ASPHALT FOR TACK COAT ON THE VERTICAL FACE OF ALL SAWCUTS. SAWCUT EXISTING SIDEWALKS AT NEAREST JOINT OUTSIDE OF CONTROL POINTS SHOWN.

UTILITY NOTES

1. UNDERGROUND UTILITIES EXIST WITHIN THE PROJECT CORRIDOR. CONTACT UTILITY OWNERS AND GET LOCATES PRIOR TO ANY EXCAVATION.
2. PROTECT, OR REMOVE AND REPLACE IN SAME LOCATION OR TO THE SIDE OF ROADWAY, EXISTING MARKER POSTS FOR UTILITIES THAT ARE DISTURBED DURING CONSTRUCTION. THIS IS SUBSIDIARY TO OTHER ITEMS OF WORK.

ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT
ARRC	ALASKA RAILROAD CORPORATION
ATB	ASPHALT TREATED BASE
AVE	AVENUE
BMP	BEST MANAGEMENT PRACTICES
BOP	BEGINNING OF PROJECT
BP	BEGIN POINT
C/A	ACCESS CONTROL
℄, CL	CENTERLINE
C	CENTER
CB	CATCH BASIN
CGP	CONSTRUTION GENERAL PERMIT
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
CO	COMPANY
COM	COMMERCIAL
COMM	COMMUNICATIONS
CON	CONCRETE
CP	CONTROL POINT
CPM	CRITICAL PATH METHOD
CSP	CORRUGATED STEEL PIPE
DEMO	DEMOLITION
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DOT	DEPARTMENT OF TRANSPORTATION
DNR	DEPARTMENT OF NATURAL RESOURCES
DR	DRIVE
DRWY	DRIVEWAY
DWT	DETECTABLE WARNING TILE
E	EASTING
EA	EACH
EG	EXISTING GROUND
ELEV, EL	ELEVATION
EOP	END OF PROJECT
EOTW	EDGE OF TRAVEL WAY
EP	END POINT, END OF PAVEMENT
ESCP	EROSION SEDIMENT CONTROL PLAN
EXPY, EXP	EXPRESSWAY
EXP	EXPANSION JOINT
EX	EXISTING
FG	FINISHED GRADE
FL	FLOW LINE
FM	FORCE MAIN
FNSB	FAIRBANKS NORTH STAR BOROUGH
FT	FEET
GALV	GALVANIZE
GB	GRADE BREAK
GE	GENERAL ELECTRIC
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
ID	INNER DIAMETER
INT	INTERSECTION
INV	INVERT
LDP	LOW DISTORTION PROJECTION
LF	LINEAR FEET
LHF	LEFT HAND FORWARD
LN	LANE
LOC	LIP OF CURB
LP	LOW POINT
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
LBS	POUNDS

MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MMA	METHYL METHACRYLATE
MON	MONUMENT
NO./#	NUMBER
N	NORTHING
NTS	NOT TO SCALE
O.D.	OUTSIDE DIAMETER
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE / POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
PI	POINT OF INTERSECTION
PST	PERFORATED STEEL TUBES
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
R	RADIUS
RES	RESIDENTIAL
REHAB	REHABILITATION
RHF	RIGHT HAND FORWARD
RD	ROAD
ROW, R/W, R.O.W.	RIGHT OF WAY
RMC	RIGID METAL CONDUIT
RP	RADIAL POINT
RT	RIGHT
SC	STRUCTURE CENTER
SD	STORM DRAIN
SDWK	SIDEWALK
SF, SQFT	SQUARE FEET
SHLDR	SHOULDER
SS	SANITARY SEWER
ST	STREET
STD	STANDARD
STA	STATION
SW	SIDEWALK
SWR	SEWER
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
SY	SQUARE YARDS
TBC	TOP BACK OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TCP	TEMPORARY CONSTRUCTION PERMIT
THK	THICK
TOC	TOP OF CASTING
TYP	TYPICAL
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WEST
W/	WITH
W, WTR	WATER
WWM	WELDED WIRE MESH

ABBREVIATIONS & GENERAL NOTES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	A4	A9

NOTES:

1. THIS PROJECT IS LOCATED ENTIRELY WITHIN THE FAIRBANKS LOW DISTORTION PROJECTION (LDP), A LOW DISTORTION PROJECTION CREATED BY THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES.

   FAIRBANKS LDP DEFINITION

   LINEAR UNITS: U.S. SURVEY FOOT
   DATUM: NADS83(2011)

   PROJECTION TYPE: LAMBERT CONFORMAL CONIC (SINGLE PARALLEL)
   STANDARD PARALLEL AND GRID ORIGIN: 64°51'00.0"N
   CENTRAL MERIDIAN (GRID ORIGIN): 146°56'00.0"W
   FALSE NORTHING: 200,000.0 SFT.
   FALSE EASTING: 800,000.0 SFT.
   STANDARD PARELLEL SCALE: 1.00003 (EXACT)

3. THE BASIS OF BEARING – PROJECT BEARING ARE FAIRBANKS LDP GRID BEARINGS.

4. BASIS OF COORDINATES FOR THIS PROJECT IS CP#51, A BRASS TABLET IN CURB AT THE INTERSECTION OF AURORA DRIVE AND COLLEGE ROAD. SAID STATION HAS FAIRBANKS LDP COORDINATES OF 205,713.52 N., 671,545.90 E. U.S. SURVEY FEET.

5. THE HORIZONTAL CLOSURE FOR THIS SURVEY MEETS OR EXCEEDS 1 PART IN 10,000. THE LARGEST NETWORK HORIZONTAL SEMI-MAJOR ERROR ELLIPSE OF 0.040 FEET AT THE 95% CONFIDENCE LEVEL WAS OBSERVED FOR THE STATIC GPS.

6. COORDINATES LISTED IN THE RECOVERED MONUMENT TABLES REFER TO THE POSITION OF THE PHYSICAL EVIDENCE.

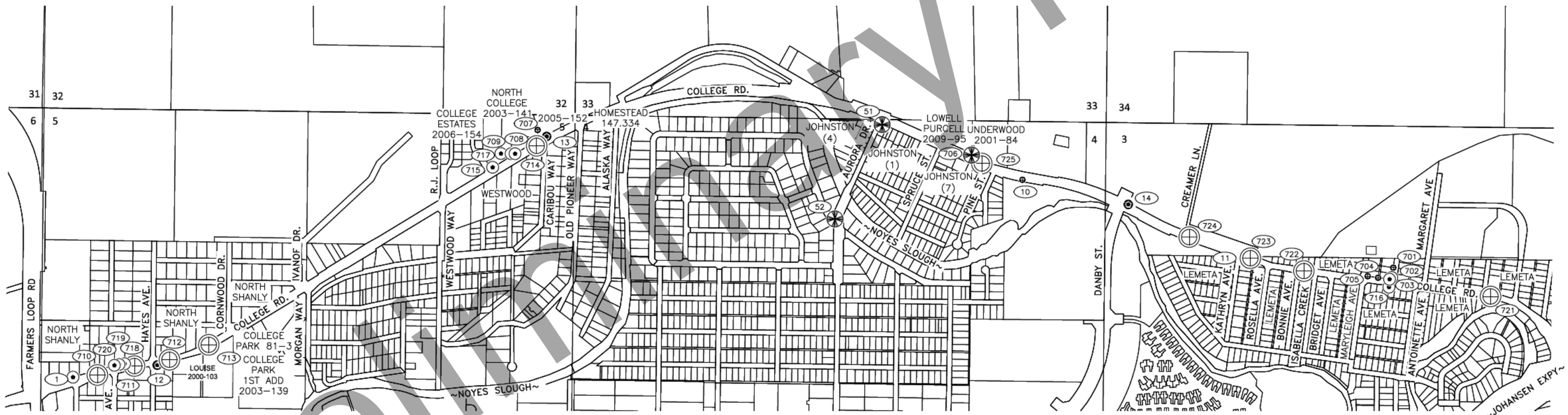
7. THIS SURVEY DOES NOT CONSTITUTE A SUBDIVISION AS DEFINED BY ALASKA STATUTE 40.15.900(5)(A).

8. BACKGROUND MAPPING IS SHOWN FOR ORIENTATION PURPOSES ONLY.

9. THE PURPOSE OF THIS SURVEY IS TO RECORD HORIZONTAL AND VERTICAL POINTS FOR THEIR FURTHER USE IN SUPPORT OF CONSTRUCTION.

LEGEND:

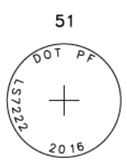
- ROW MONUMENT
- RECOVERED PRIMARY MONUMENT
- RECOVERED REBAR WITH CAP
- RECOVERED REBAR
- SET REBAR WITH CAP
- (6) POINT NUMBER
- PROPERTY LINE



SURVEY CONTROL TABLE

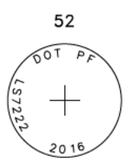
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
51	205713.52	671545.90	441.02'	PRIM MON FND
52	204776.68	671076.96	439.61'	PRIM MON FND

51



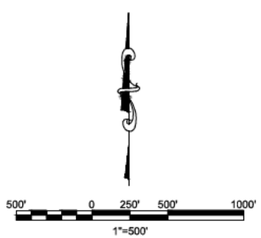
FOUND 2" BRASS CAP IN CURB, GOOD CONDITION

52



FOUND 2" BRASS CAP IN CURB, GOOD CONDITION

MONUMENT DETAIL



SURVEYOR'S CERTIFICATE

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

DATE:_____ REGISTRATION NO. LS-11798

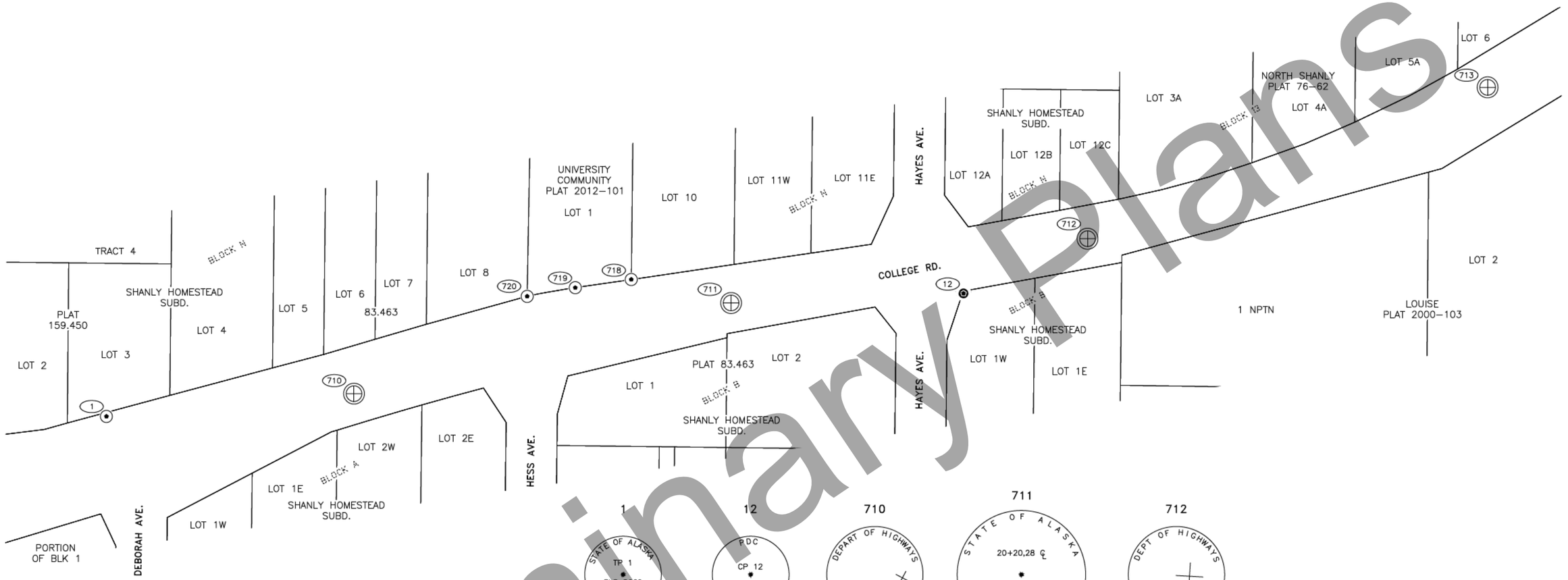
CRAIG O. RANSON
REGISTERED LAND SURVEYOR

SURVEY CONTROL

PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200
P:\2018\18060FB-DOT_CollegeRd\LX\LXREF-CNTRL-18060FB-A-4 Thu, Mar/19/20 02:35pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	A5	A9



SURVEY CONTROL TABLE

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	203203.86	663502.13	437.84'	REBAR CAP FND
12	203324.10	664339.74	439.59'	REBAR CAP SET

RECOVERED PROPERTY CORNERS

POINT NO.	NORTHING	EASTING	DESCRIPTION
710	203226.08	663744.11	MON IN CASE FND
711	203314.71	664112.60	MON IN CASE FND
712	203377.52	664460.96	MON IN CASE FND
713	203525.44	664851.93	MON IN CASE FND
718	203337.68	664015.04	REBAR CAP FND
719	203329.62	663960.33	REBAR CAP FND
720	203321.20	663913.30	REBAR CAP FND

1
STATE OF ALASKA
TP 1
RLS 8669
2003
DOT PF

FOUND 2" ALUMINUM CAP, FLUSH W/ GROUND, GOOD CONDITION

12
PDC
CP 12
11798-S 2019

SET 2" ALUMINUM CAP ON 5/8" REBAR FLUSH W/ GROUND

710
DEPART OF HIGHWAYS
CENTERLINE MON

FOUND 2 1/2" BRASS CAP IN CASE, 0.8' BELOW CASE LIP, GOOD CONDITION

711
STATE OF ALASKA
20+20,28 ℄
LS 10684
2015
DOT & PF

FOUND 3 1/4" ALUMINUM CAP IN MON. CASE, 0.4' BELOW GROUND, GOOD CONDITION

712
DEPT OF HIGHWAYS
CENTERLINE MON

FOUND 2 1/2" BRASS CAP IN CASE, 0.4' BELOW CASE LIP, GOOD CONDITION

713
STATE OF ALASKA
7+94,61 ℄
LS 10684
2015
DOT & PF

FOUND 3 1/4" ALUMINUM CAP IN MON. CASE, 0.3' BELOW CASE LIP, GOOD CONDITION

718
3286-S
L9
1998

FOUND 1 1/2" ALUMINUM CAP, FLUSH W/ GROUND, GOOD CONDITION

719
3286-S
ROW
PC
1998

FOUND 1 1/2" ALUMINUM CAP, FLUSH W/ GROUND, GOOD CONDITION

720
3 TIER AK 2012
L8
L1
ROW
COLLEGE RD.
LS 6474

FOUND 2" ALUMINUM CAP, 0.05' ABOVE GROUND, GOOD CONDITION

MONUMENT DETAIL

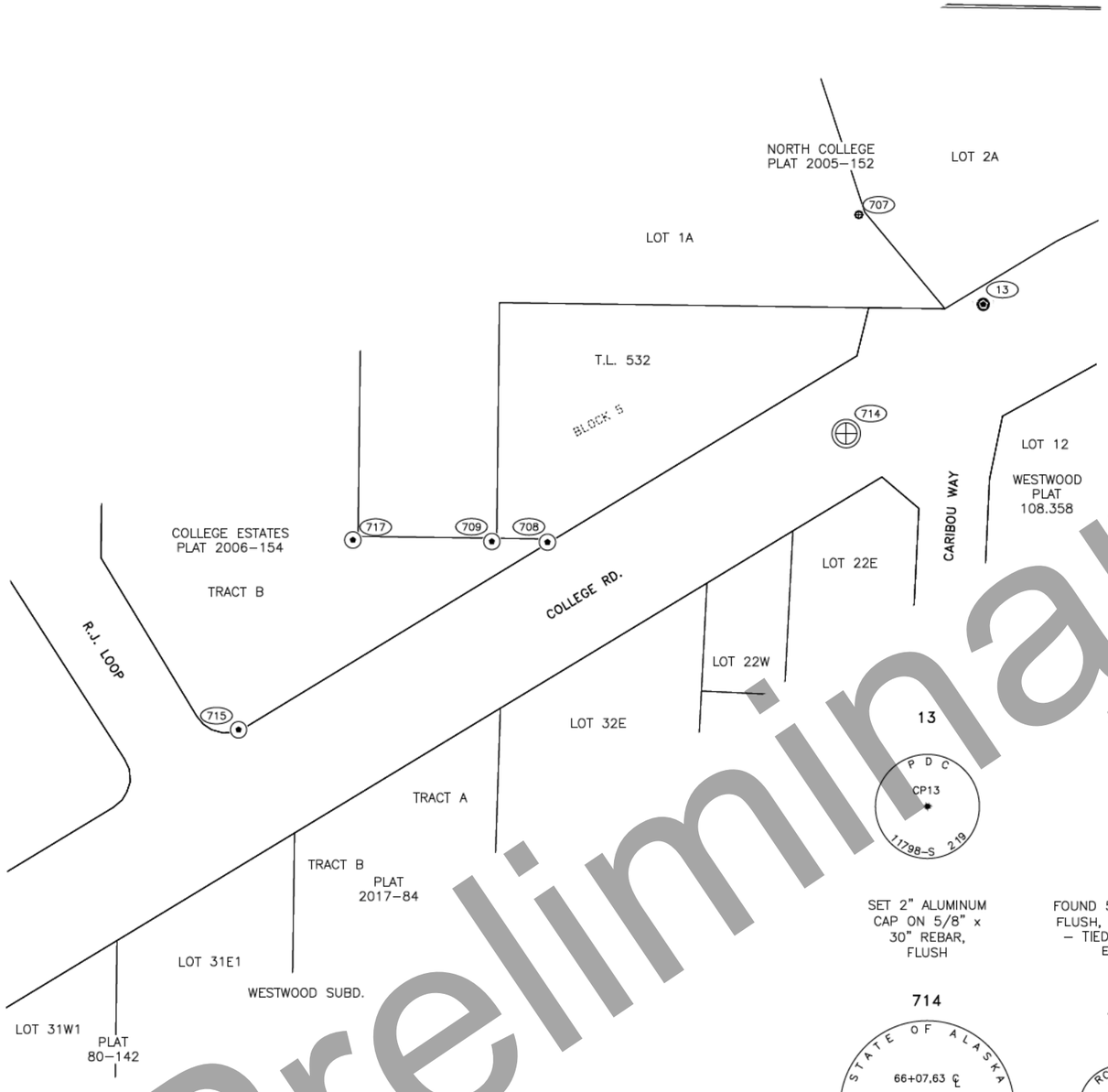
50' 0 25' 50' 100'
1"=50'

SURVEY CONTROL

PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200
P:\2018\18060FB-DOT_CollegeRd\LX\REF-CNTRL_18060FB-A-5 Thu, Mar/19/20 11:30am

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	A6	A9



SURVEY CONTROL TABLE

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
13	205595.80	668211.00	442.23'	REBAR CAP SET
715	205289.21	667673.90	441.03'	REBAR CAP FND

RECOVERED PROPERTY CORNERS

POINT NO.	NORTHING	EASTING	DESCRIPTION
707	205660.48	668121.25	REBAR FND
708	205424.39	667896.69	REBAR CAP FND
709	205424.89	667856.56	REBAR CAP FND
714	205502.69	668112.18	MON IN CASE FND
715	205289.21	667673.90	REBAR CAP FND
717	205425.95	667756.35	REBAR CAP FND

MONUMENT DETAIL

13

SET 2" ALUMINUM CAP ON 5/8" x 30" REBAR, FLUSH

707

FOUND 5/8" REBAR, FLUSH, BENT E'RLY – TIED POINT OF ENTRY

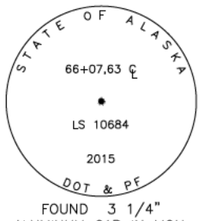
708

FOUND 1 1/2" ALUMINUM CAP, FLUSH, GOOD CONDITION

709

FOUND 1 1/2" ALUMINUM CAP, FLUSH, BENT E'RLY – TIED POINT OF ENTRY

714



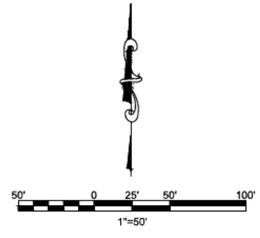
FOUND 3 1/4" ALUMINUM CAP IN MON. CASE, 0.3' BELOW CASE LIP, GOOD CONDITION

715

FOUND 1 1/2" ALUMINUM CAP, 0.1' BELOW GROUND, GOOD CONDITION

717

FOUND 1 1/2" ALUMINUM CAP, 0.4' BELOW GROUND, FAIR CONDITION, CAP IS LOOSE



SURVEY CONTROL

PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200
P:\2018\18060FB-DOT_CollegeRd\L\LXREF-CNTRL-18060FB-A-6 Thu, Mar/19/20 11:30am

NO.	DATE	REVISION

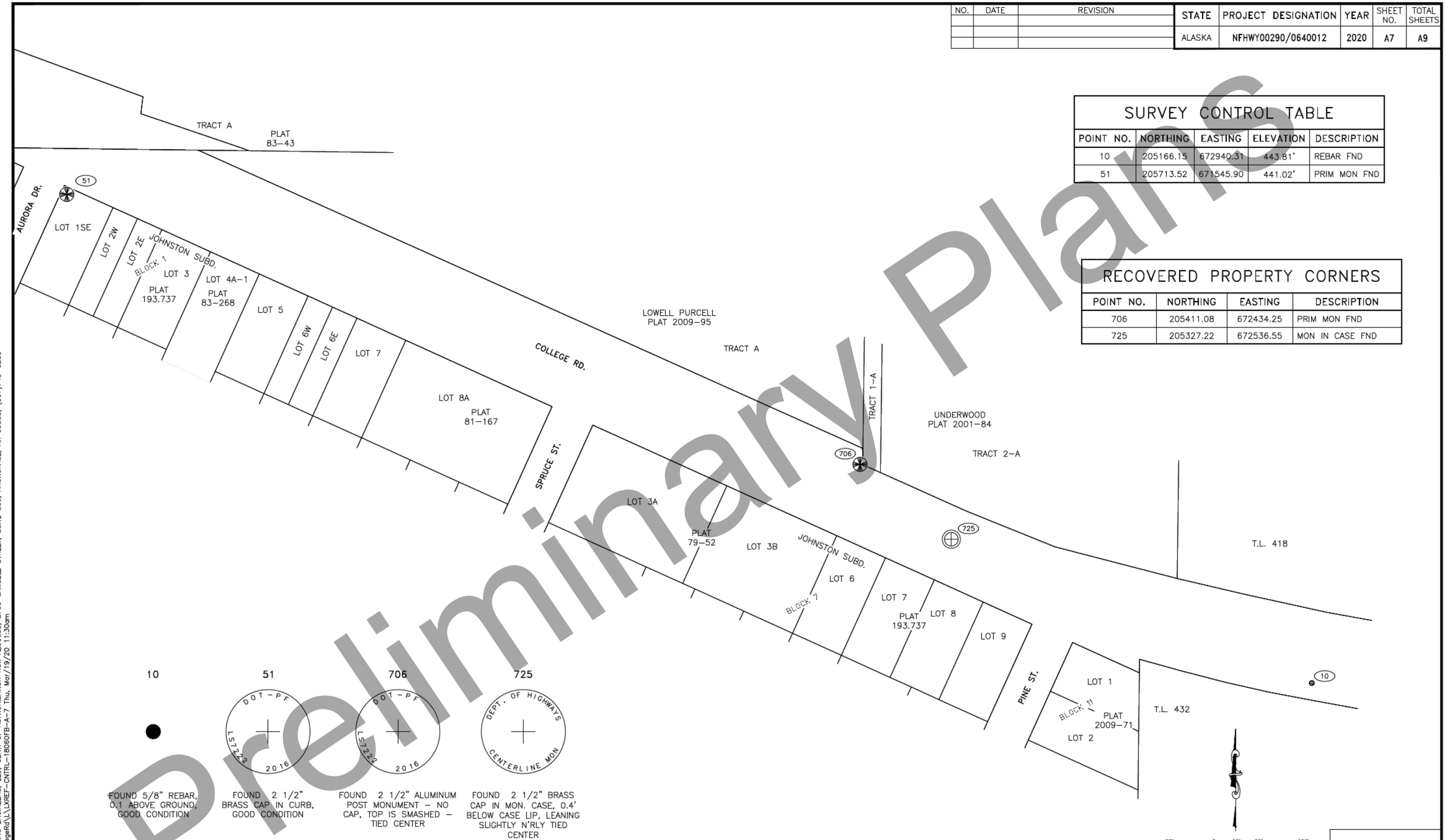
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	A7	A9

SURVEY CONTROL TABLE

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	205166.15	672940.31	443.81'	REBAR FND
51	205713.52	671545.90	441.02'	PRIM MON FND

RECOVERED PROPERTY CORNERS

POINT NO.	NORTHING	EASTING	DESCRIPTION
706	205411.08	672434.25	PRIM MON FND
725	205327.22	672536.55	MON IN CASE FND



10	51	706	725
●	DOT-PF LS7222 2016	DOT-PF LS7222 2016	DEPT. OF HIGHWAYS CENTERLINE MON
FOUND 5/8" REBAR, 0.1 ABOVE GROUND, GOOD CONDITION	FOUND 2 1/2" BRASS CAP IN CURB, GOOD CONDITION	FOUND 2 1/2" ALUMINUM POST MONUMENT – NO CAP, TOP IS SMASHED – TIED CENTER	FOUND 2 1/2" BRASS CAP IN MON. CASE, 0.4' BELOW CASE LIP, LEANING SLIGHTLY N'RLY TIED CENTER

MONUMENT DETAIL

SURVEY CONTROL

PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200
P:\2018\18060FB-DOT_CollegeRd\LX\REF-CNTRL-18060FB-A-7 Thu, Mar/19/20 11:30am

NO.	DATE	REVISION

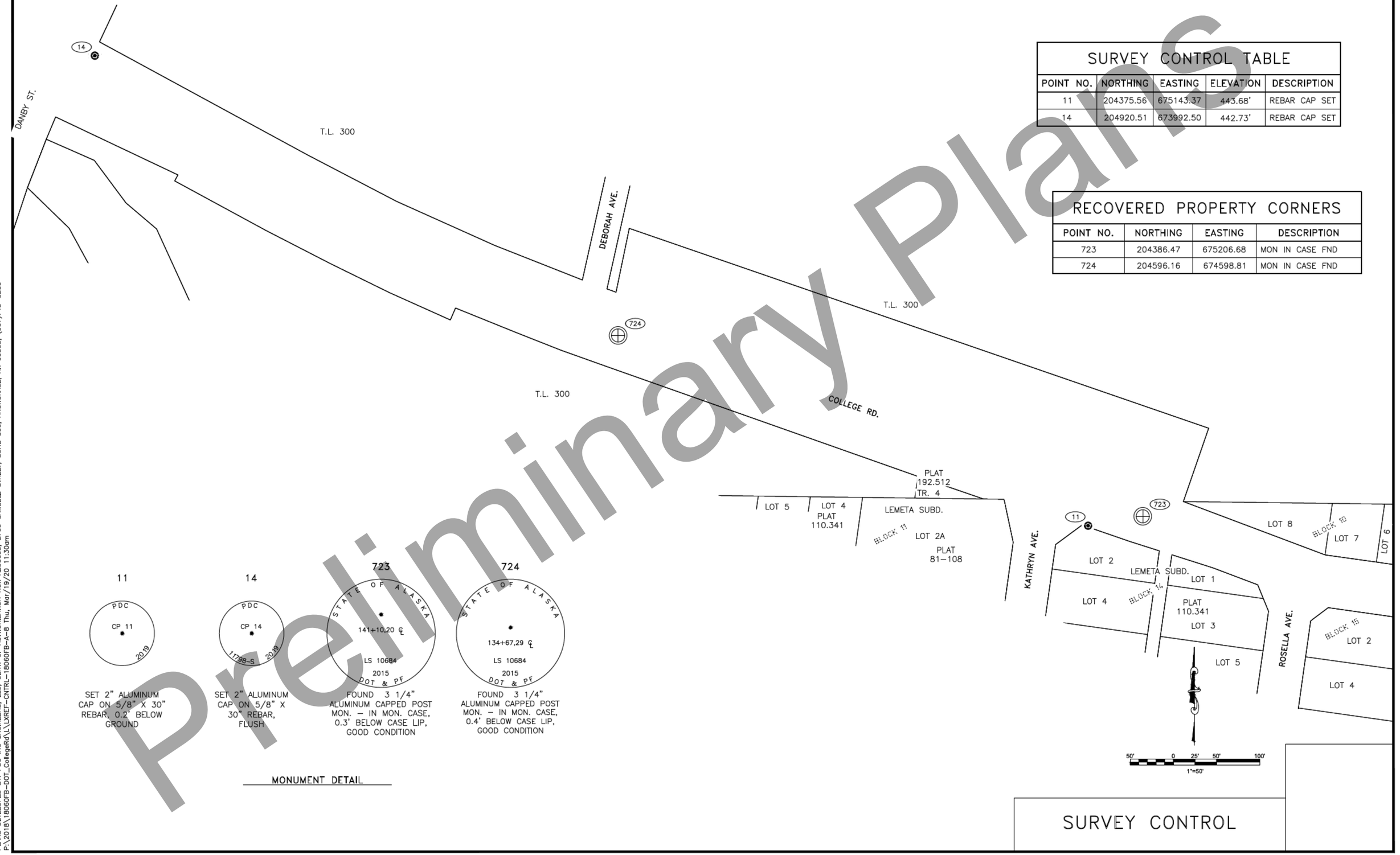
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	A8	A9

SURVEY CONTROL TABLE

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
11	204375.56	675143.37	443.68'	REBAR CAP SET
14	204920.51	673992.50	442.73'	REBAR CAP SET

RECOVERED PROPERTY CORNERS

POINT NO.	NORTHING	EASTING	DESCRIPTION
723	204386.47	675206.68	MON IN CASE FND
724	204596.16	674598.81	MON IN CASE FND



11

PDC
CP 11
2019

SET 2" ALUMINUM CAP ON 5/8" X 30" REBAR, 0.2' BELOW GROUND

14

PDC
CP 14
11798-S
2019

SET 2" ALUMINUM CAP ON 5/8" X 30" REBAR, FLUSH

723

STATE OF ALASKA
141+10,20 ℄
LS 10684
2015
DOT & PF

FOUND 3 1/4" ALUMINUM CAPPED POST MON. – IN MON. CASE, 0.3' BELOW CASE LIP, GOOD CONDITION

724

STATE OF ALASKA
134+67,29 ℄
LS 10684
2015
DOT & PF

FOUND 3 1/4" ALUMINUM CAPPED POST MON. – IN MON. CASE, 0.4' BELOW CASE LIP, GOOD CONDITION

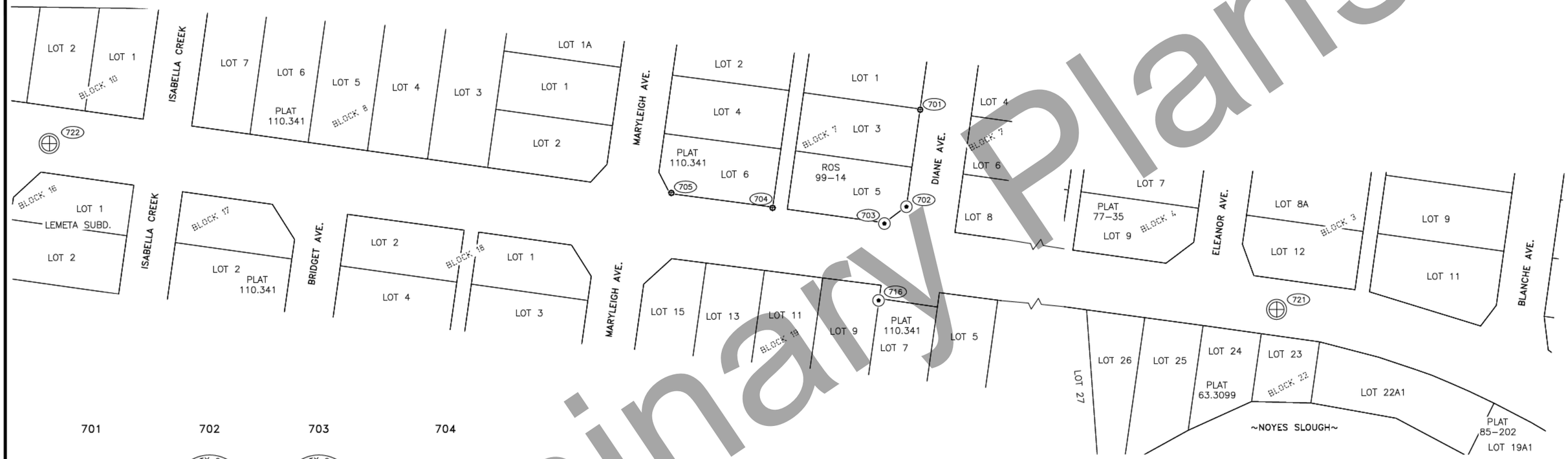
MONUMENT DETAIL

SURVEY CONTROL

PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200
P:\2018\18060FB-DOT_CollegeRd\L\LXREF-CNTRL-18060FB-A-8 Thu, Mar/19/20 11:30am

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	A9	A9



701

FOUND 5/8" REBAR, FLUSH, GOOD CONDITION

702

FOUND 2" ALUMINUM CAP, 0.2' BELOW GROUND, GOOD CONDITION

703

FOUND 2" ALUMINUM CAP, FLUSH, FAIR CONDITION

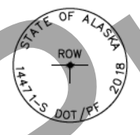
704

FOUND 5/8" REBAR, BENT N'RLY – TIED VISUAL POINT OF ENTRY

705

FOUND 5/8" REBAR, 0.1' BELOW GRADE, GOOD CONDITION

716

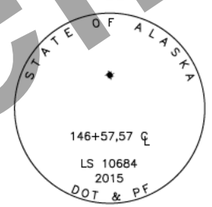


FOUND 2" ALUMINUM CAP, FLUSH, GOOD CONDITION

721

FOUND 2 1/2" BRASS CAP IN CASE, 0.4' BELOW CASE LIP, GOOD CONDITION

722

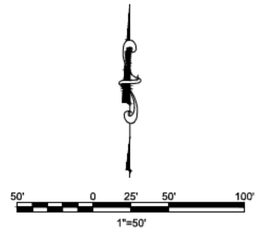


FOUND 3" ALUMINUM CAPPED POST MON. – IN MON. CASE, 0.4' BELOW CASE LIP, GOOD CONDITION

MONUMENT DETAIL

RECOVERED PROPERTY CORNERS

POINT NO.	NORTHING	EASTING	DESCRIPTION
701	204292.98	676626.66	REBAR FND
702	204194.00	676612.58	REBAR CAP FND
703	204176.91	676590.10	REBAR CAP FND
704	204192.90	676476.04	REBAR FND
705	204208.16	676372.76	REBAR FND
716	204098.56	676584.20	REBAR CAP FND
721	204006.00	677594.05	MON IN CASE FND
722	204258.49	675738.03	MON IN CASE FND



SURVEY CONTROL

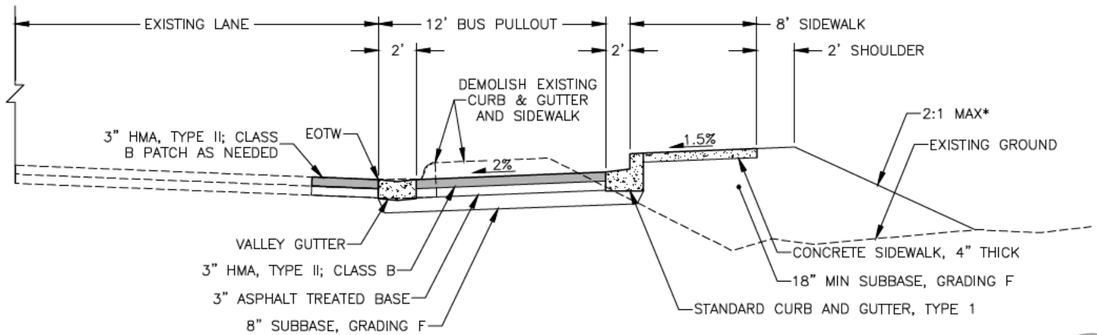
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200
P:\2018\18060FB-DOT_CollegeRd\L\LXREF-CNTRL_18060FB-A-9 Thu, Mar/19/20 11:31am

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	B1	B1

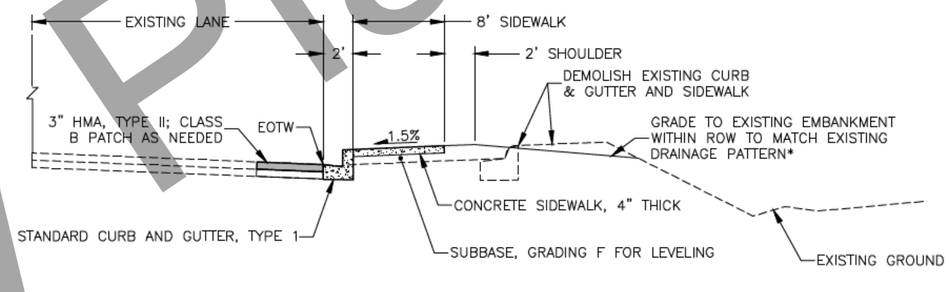
TYPICAL SECTION NOTES:

1. PROOF ROLL THE BASE OF SUB-EXCAVATIONS AND WHERE NEW EMBANKMENT IS BEING CONSTRUCTED.
2. IF EXISTING GROUND CAN NOT BE PROOF ROLLED, SUB EXCAVATE 12", PLACE NON-WOVEN STABILIZATION GEOTEXTILE AND THEN PLACE AND COMPACT SUBBASE, GRADING F.
3. WHERE APPROPRIATE, BENCH INTO EXISTING EMBANKMENT.



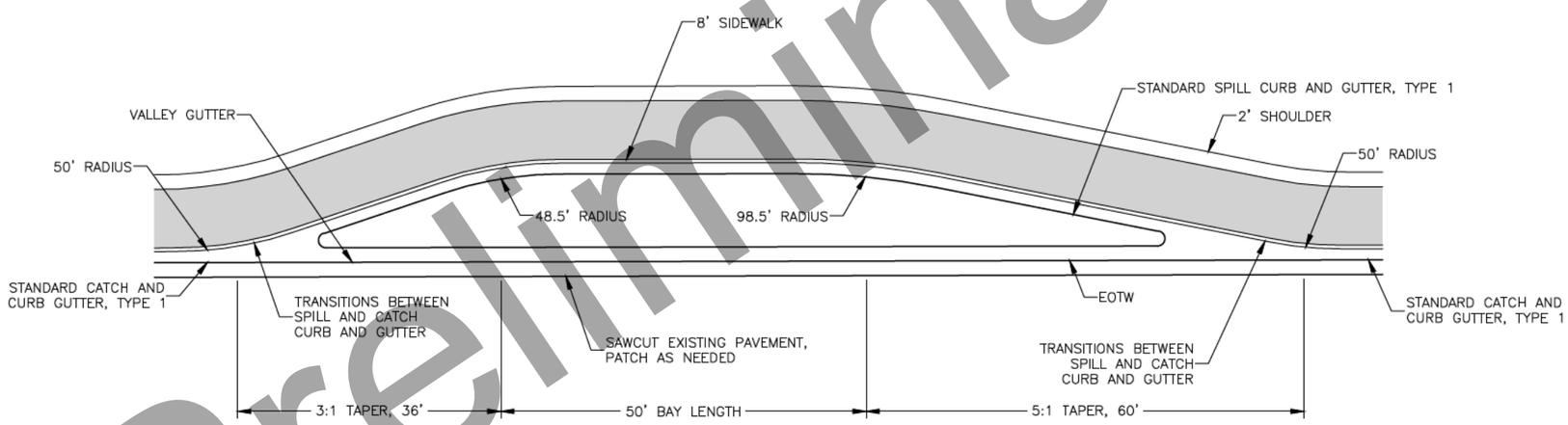
BUS PULLOUT TYPICAL SECTION

SEE GRADING SHEETS FOR BUS PULLOUT LAYOUT
*SEE SHEET G3 FOR 3:1 EMBANKMENT SLOPE

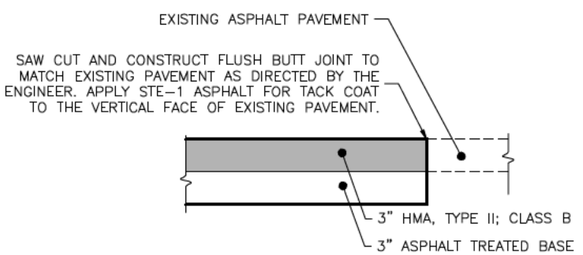


BUS PULLOUT REMOVAL / NEW SIDEWALK TYPICAL SECTION

SEE SHEET G5 FOR COLLEGE ROAD AND SPRUCE STREET SIDEWALK LAYOUT
*GRADE 1' DEEP DITCH WITH 2:1 FORESLOPE AND BACKSLOPE AT THE BACK OF SOUTH SPRUCE STREET SIDEWALK



BUS PULLOUT TYPICAL PLAN



MATCH EXISTING PAVEMENT DETAIL

COLLEGE ROAD TIE INS AND AT APPROACHES

TYPICAL SECTIONS

P:\2018\18060FB-DOT_CollegeRd\C\c30001cnst18060FB-Typ Sections Thu, Mar/19/20 02:09pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	C1	C1

ESTIMATE OF QUANTITIES

ITEM NO	DESCRIPTION	PAY UNIT	QUANTITY
201.0009.0000	CLEARING AND GRUBBING	LUMP SUM	ALL REQ'D
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQ'D
202.0002.0000	REMOVAL OF PAVEMENT	SQUARE YARD	560
202.0003.0000	REMOVAL OF SIDEWALK	SQUARE YARD	1,110
202.0009.0000	REMOVAL OF CURB AND GUTTER	LINEAR FOOT	1,430
203.0003.0000	UNCLASSIFIED EXCAVATION	CUBIC YARD	120
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	65
304.0001.000F	SUBBASE, GRADING F	TON	2,050
306.0001.0000	ATB	TON	90
306.0002.5240	ASPHALT BINDER, GRADE PG 52-40	TON	4
401.0001.002B	HMA, TYPE II; CLASS B	TON	90
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40	TON	5
401.0008.002B	HMA PRICE ADJUSTMENT, TYPE II; CLASS B	CONTINGENT SUM	ALL REQ'D
401.0012.002B	HMA, DRIVEWAY, TYPE II; CLASS B	TON	22
401.0015.0000	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	TON	0.03
603.0001.0018	CSP 18 INCH	LINEAR FOOT	12
603.0001.0024	CSP 24 INCH	LINEAR FOOT	24
608.0001.0004	CONCRETE SIDEWALK, 4 INCHES THICK	SQUARE YARD	920
608.0001.0006	CONCRETE SIDEWALK, 6 INCHES THICK	SQUARE YARD	100
608.0006.0000	CURB RAMP	EACH	1
609.0002.0001	CURB AND GUTTER, TYPE 1	LINEAR FOOT	1,960
613.0002.0000	CULVERT MARKER POST	EACH	2
615.0001.0000	STANDARD SIGN	SQUARE YARD	5
618.0002.0000	SEEDING	POUND	20
620.0001.0000	TOPSOIL	SQUARE YARD	550
639.2000.0000	APPROACH	EACH	3
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQ'D
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQ'D
641.0003.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQ'D
641.0004.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL ADDITIVES	CONTINGENT SUM	ALL REQ'D
641.0006.0000	WITHHOLDING	CONTINGENT SUM	ALL REQ'D
641.0007.0000	SWPPP MANAGER	LUMP SUM	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQ'D
642.0013.0000	THREE PERSON SURVEY PARTY	CONTINGENT SUM	ALL REQ'D
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQ'D
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D
643.0025.0000	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQ'D
643.2005.0000	PUBLIC INFORMATION PROGRAM	LUMP SUM	ALL REQ'D
645.0001.0000	TRAINING PROGRAM, 1 TRAINEES/APPRENTICES	LABOR HOUR	30
646.0001.0000	CPM SCHEDULING	LUMP SUM	ALL REQ'D
660.0013.0000	RELOCATE ELECTROLIER	EACH	1

ESTIMATING FACTORS

ITEM NO	DESCRIPTION	FACTOR
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	1.96 TONS/CUBIC YARDS
304.0001.000F	SUBBASE, GRADING F	2.00 TONS/CUBIC YARDS
306.0001.0000	ATB	1.96 TONS/CUBIC YARDS
306.0002.5240	ASPHALT BINDER, GRADE PG 52-40	4.5%/TON
401.0001.002B	HMA, TYPE II; CLASS B	1.96 TONS/CUBIC YARDS
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40	5.5%/TON
401.0012.002B	HMA, DRIVEWAY, TYPE II; CLASS B	1.96 TONS/CUBIC YARDS
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	0.0003 TONS/SQUARE YARD
618.0002.0000	SEEDING	4.0 LBS/1,000 SQUARE FEET

ESTIMATED LUMP SUM QUANTITIES

ITEM NO	DESCRIPTION	QUANTITY
201.0009.0000	CLEARING AND GRUBBING	0.23 ACRES
202.0001.0000	REMOVAL OF STRUCURES AND OBSTRUCTIONS	
	LIGHT POLE BASE	1 EACH

ESTIMATE OF QUANTITIES

P:\2018\18060FB-DOT_CollegeRd\C\c40001cnst180060FB-C1 Thu, Mar/19/20 04:06pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	D1	D2

GENERAL NOTES:

1. DEMOLISH EXISTING CURB & GUTTER AND SIDEWALK AS NOTED IN THE PLANS.

CLEARING & GRUBBING SUMMARY

BUS PULLOUT LOCATIONS	AREA		REMARKS
	SF	ACRE	
FARMER'S MARKET	1919	0.04	
KATHRYN AVE SOUTH	4438	0.10	
KATHRYN AVE NORTH	1950	0.04	
MARYLEIGH AVE	1678	0.04	
TOTAL	9985	0.23	
ROUNDED TOTAL	9990	0.23	

REMOVAL OF PAVEMENT SUMMARY

BUS PULLOUT LOCATIONS	AREA		REMARKS
	SF	SY	
HAYES AVE	1506	167	
SPRUCE STREET SOUTH	1675	186	
SPRUCE STREET NORTH	863	96	
MARYLEIGH AVE	1000	111	
TOTAL	5,044	560	
ROUNDED TOTAL	–	560	

REMOVAL OF SIDEWALK SUMMARY

BUS PULLOUT LOCATIONS	AREA		REMARKS
	SF	SY	
HAYES AVE	1910	212	
FARMER'S MARKET	1315	146	
SPRUCE STREET SOUTH	1702	149	
SPRUCE STREET NORTH	1242	149	
KATHRYN AVE SOUTH	1342	111	
KATHRYN AVE NORTH	1337	189	
MARYLEIGH AVE	1000	138	
TOTAL	9848	1094	
ROUNDED TOTAL	9990	1110	

REMOVAL OF CURB & GUTTER SUMMARY

BUS PULLOUT LOCATIONS	LENGTH (LF)		REMARKS
	STANDARD	GUTTER	
HAYES AVE	166		
FARMER'S MARKET	166		
SPRUCE STREET SOUTH	170	149	
SPRUCE STREET NORTH	165	137	
KATHRYN AVE SOUTH	167		
KATHRYN AVE NORTH	166		
MARYLEIGH AVE	144		
TOTAL	1430		
ROUNDED TOTAL	1430		

REMOVAL OF STRUCTURES & OBSTRUCTIONS SUMMARY

BUS PULLOUT LOCATIONS	QUANTITY	UNIT	REMARKS
MARYLEIGH AVE	1	EACH	LIGHT POLE BASE

SUMMARY TABLES
(1 OF 2)

P:\2018\18060FB-DOT_CollegeRd\C\c50001cnst180060FB-D1 Wed, Mar/18/20 08:19pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	D2	D2

CONCRETE SUMMARY

BUS PULLOUT LOCATION	AREA (SY)		REMARKS
	CONCRETE SIDEWALK, 4 INCHES THICK	CONCRETE SIDEWALK, 6 INCHES THICK	
HAYES AVE	118	32	
FARMER'S MARKET	150		
SPRUCE STREET SOUTH	119	32	
SPRUCE STREET NORTH	138		
KATHRYN AVE SOUTH	152		
KATHRYN AVE NORTH	150		
MARYLEIGH AVE	89	33	
TOTAL	916	97	
ROUNDED TOTAL	920	100	

CURB & GUTTER, TYPE 1 SUMMARY

BUS PULLOUT LOCATION	LENGTH (LF)		REMARKS
	STANDARD	GUTTER	
HAYES AVE	169	166	
FARMER'S MARKET	169	166	
SPRUCE STREET SOUTH	170		
SPRUCE STREET NORTH	155		
KATHRYN AVE SOUTH	171	167	
KATHRYN AVE NORTH	169	166	
MARYLEIGH AVE	150	135	
SUBTOTAL	1152	800	
TOTAL	1953		
ROUNDED TOTAL	1960		

SIGN SUMMARY

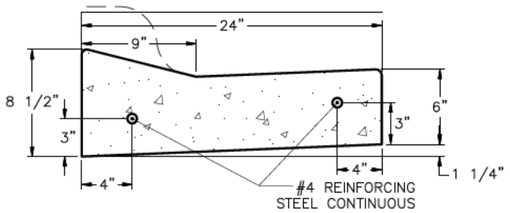
BUS PULLOUT LOCATION	LOCATION		LEGEND	SIZE (INCHES)			BRACING/FRAMING		AREA	MTG. HGT.	DIR.	POST			REMARKS
	NORTHING	EASTING		W	X	H	BRACED	FRAMED	(SQFT.)	(FT.)		TYPE	SIZE	NO.	
HAYES AVE	203376	664238	FNSB BUS STOP SIGN		X		X		–		E	PST	2.5	1	SIGN TO BE PROVIDED BY FNSB
FARMER'S MARKET	205392	667857	FNSB BUS STOP SIGN		X		X		–		N	PST	2.5	1	SIGN TO BE PROVIDED BY FNSB
KATHRYN AVE SOUTH	204695	674265	FNSB BUS STOP SIGN		X		X		–		W	PST	2.5	1	SIGN TO BE PROVIDED BY FNSB
KATHRYN AVE NORTH	204476	675066	FNSB BUS STOP SIGN		X		X		–		E	PST	2.5	1	SIGN TO BE PROVIDED BY FNSB
MARYLEIGH AVE	204197	676494	FNSB BUS STOP SIGN		X		X		–		E	PST	2.5	1	SIGN TO BE PROVIDED BY FNSB
MARYLEIGH AVE	204215	676408	SPEED LIMIT 35	24	X	30	X		5.0		E				MOUNT ON LIGHT POLE
								AREA SUBTOTAL	5						

SUMMARY TABLES
(2 OF 2)

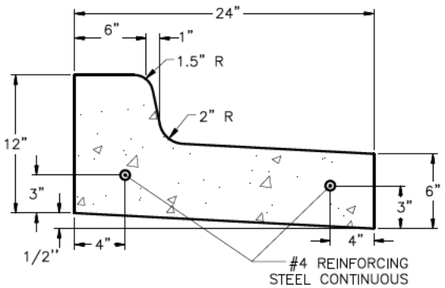
P:\2018\18060FB-DOT_CollegeRd\C\c50001const180060FB-D2 Wed, Mar/18/20 08:19pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC. CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

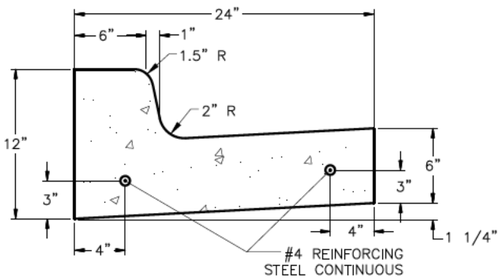
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	E1	E8



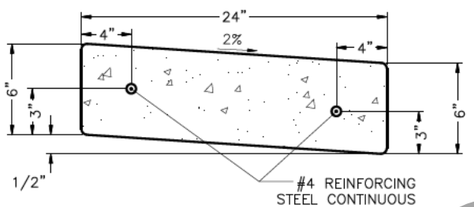
DEPRESSED CURB AND GUTTER



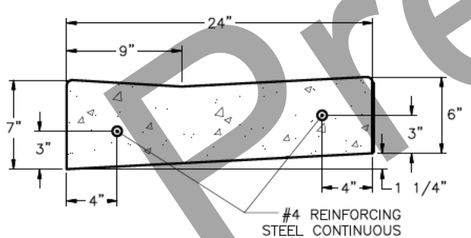
STANDARD CURB AND GUTTER
SPILL



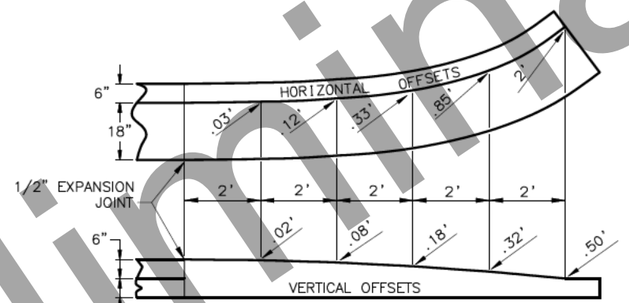
STANDARD CURB AND GUTTER
CATCH



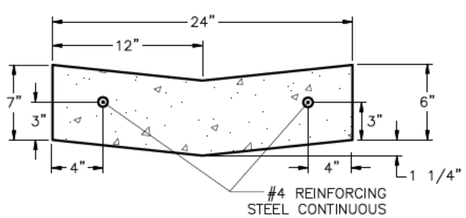
CURB RAMP CURB AND GUTTER
SPILL



CURB RAMP CURB AND GUTTER
CATCH



CURB AND GUTTER
TERMINATION TRANSITIONS



GUTTER

GENERAL NOTES:

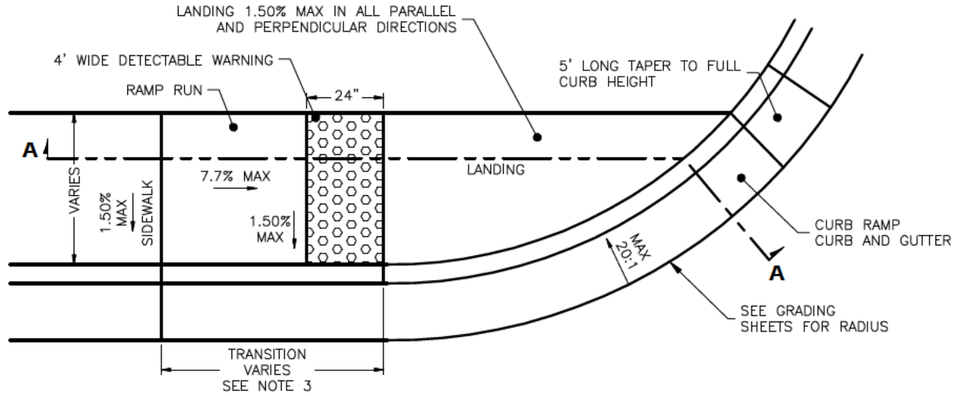
1. USE THE TYPE OF CURB AND GUTTER SPECIFIED ON THE PLANS.
2. CONSTRUCT CURB RAMP RUNS AND LANDINGS OF CONCRETE REGARDLESS OF WHETHER THE SIDEWALK IS ASPHALT OR CONCRETE.
3. CONSTRUCT CURB RAMP SLOPES AT A 7.7% NOMINAL GRADE, OR FLATTER. RAMP SLOPES MAY BE INCREASED TO A MAXIMUM OF 8.3% WHEN SITE CONDITIONS WARRANT IT. RAMP LENGTHS SHOULD BE INCREASED TO KEEP GRADES UNDER THE 8.3% MAXIMUM, BUT ARE NOT REQUIRED TO EXCEED 15.0 FEET. THE RESULTING RAMP GRADE AT A 15.0 FOOT RAMP LENGTH IS ACCEPTABLE EVEN IF IT EXCEEDS 8.3%.
4. CONSTRUCT FLARE SLOPES AT 8.3% (MEASURED PARALLEL TO THE CURB LINE) OR FLATTER, SIDEWALK CROSS SLOPES AT 1.5% NOMINAL (1.0% MIN. AND 2.0% MAX) AND CURB RAMP CURB AND GUTTER PAN SLOPES AT 4.7% NOMINAL. CONSTRUCT GRADE BREAKS PERPENDICULAR TO RAMP RUNS.
5. DO NOT CONSTRUCT FLARE SLOPES STEEPER THAN 10.0%, SIDEWALK CROSS SLOPES STEEPER THAN 2.0% AND CURB RAMP CURB CURB AND GUTTER GUTTER PAN SLOPES STEEPER THAN 5.0%. THESE ARE THE STEEPEST SLOPES ALLOWED UNDER THE 2006 ADA STANDARDS FOR TRANSPORTATION FACILITIES.
6. PROVIDE A COARSE BROOMED FINISH ON RAMP RUNS PERPENDICULAR TO THE RAMP SLOPE.
7. STANDARD CURB AND GUTTER, DEPRESSED CURB AND GUTTER, GUTTER, CURB RAMP CURB AND GUTTER, AND CURB AND GUTTER TERMINATION TRANSITIONS, AND TRANSITION CURB AND GUTTER OFFSETS SHALL ALL BE MEASURED AND PAID FOR UNDER ITEM 609.0002.0001.
8. CURB AND GUTTER REINFORCING BARS TO BE SPLICED SHALL BE LAPPED AT LEAST 20 BAR DIAMETERS AND DOUBLE TIED. THE INNER AND OUTER BAR SPLICES SHALL BE OFFSET FROM EACH OTHER BY AT LEAST SIX INCHES.
9. ALL CURB RAMP LAYOUTS AND DIMENSIONS IN THIS PLAN SET ARE APPROXIMATE AND NEED TO BE FIELD FIT AND SHALL MEET 2006 ADA STANDARDS FOR MAXIMUM SLOPES. FINAL LAYOUT TO BE APPROVED BY THE ENGINEER PRIOR TO CONCRETE POUR.

CURB & GUTTER DETAILS

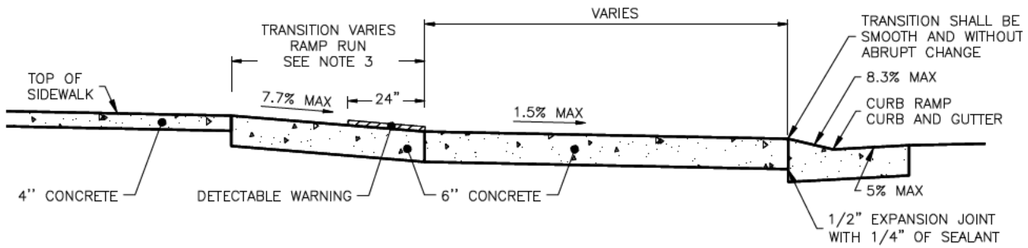
P:\2018\18060FB-DOT_CollegeRd\C\c60001cnst180060FB-E1 Thu, Mar/19/20 02:13pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	E2	E8



PLAN
NTS

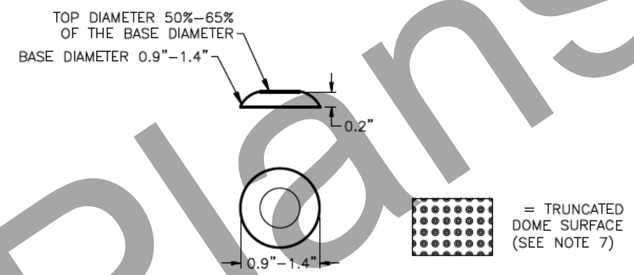


SECTION A–A
NTS

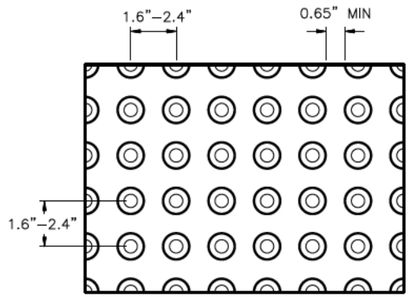
UNIDIRECTIONAL CURB RAMP DETAILS

UNDIRECTIONAL CURB RAMP NOTES:

1. CONSTRUCT 6 INCH THICK RAMP AND LANDING OF CONCRETE.
2. CONCRETE SHALL RECEIVE A COARSE BROOMED FINISH RUNNING PERPENDICULAR TO THE CURB ON RAMP RUNS AND UPPER LANDINGS AND PARALLEL TO THE DIRECTION OF TRAVEL ON LOWER LANDINGS.
3. TRANSITION FROM STANDARD CURB AND GUTTER WHERE SIDEWALK SLOPE MAKES IT NECESSARY TO LENGTHEN A RAMP RUN TO AVOID EXCEEDING THE ALLOWABLE RAMP SLOPE.
4. INSTALL FEDERAL YELLOW CAST IRON DETECTABLE WARNINGS IN THE RAMP RUN.
5. SEE CURB RAMP SUMMARY FOR INSTALLATION LOCATIONS.
6. CONSTRUCT RAMP SLOPES AT A NOMINAL 7.7% GRADE, OR FLATTER. RAMP SLOPES MAY BE INCREASED TO A MAXIMUM OF 8.3% WHEN SITE CONDITIONS WARRANT IT. RAMP LENGTHS SHOULD BE INCREASED TO KEEP GRADES UNDER 8.3% MAXIMUM, BUT ARE NOT REQUIRED TO EXCEED 15.0 FEET. THE RESULTING RAMP GRADE AT A 15.0 FOOT RAMP LENGTH IS ACCEPTABLE EVEN IF IT EXCEEDS 8.3%.
7. CONSTRUCT LANDING AND SIDEWALK CROSS SLOPE AT NOMINAL 1.5% (1% MIN., 2% MAX) DO NOT CONSTRUCT LANDING AND SIDEWALK CROSS SLOPES STEEPER THAN 2%.
8. WWM STEEL REINFORCEMENT FOR PEDESTRIAN RAMPS AND CURB CUTS SHALL BE 6"x6"–W2.9 WWM. FOR NORMAL SIDEWALK REINFORCEMENT SHALL BE 6"x6"–W1.4XW1.4. ALL STEEL SHALL BE SET ON SPACERS AND PULLED UP AS REQUIRED TO POSITION STEEL 1 1/2" UP FROM BOTTOM OF SIDEWALK.
9. FOR SIDEWALK REINFORCEMENT, POSITION STEEL 1 1/2" UP FROM BOTTOM OF SIDEWALK.
10. ALL CURB RAMP LAYOUTS AND DIMENSIONS IN THIS PLAN SET ARE APPROXIMATE AND NEED TO BE FIELD FIT AND SHALL MEET 2006 ADA STANDARDS FOR MAXIMUM SLOPES. FINAL LAYOUT TO BE APPROVED BY THE ENGINEER PRIOR TO CONCRETE POUR.
11. SEE SHEET E3 FOR EXPANSION SIDEWALK AND CURB AND GUTTER JOINT DETAIL.



TRUNCATED DOME DETAILS



TRUNCATED PATTERN DETAIL

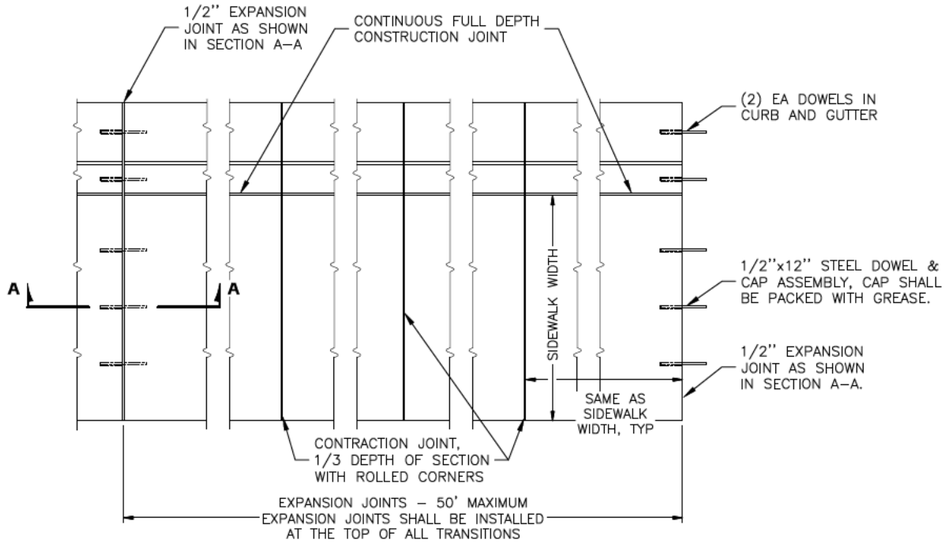
CURB RAMP SUMMARY

NO.	TYPE	DETECTABLE	REMARKS
1	UNIDIRECTIONAL	1	MARYLEIGH AVE
	TOTAL	1	

RAMP AND CURB DETAILS

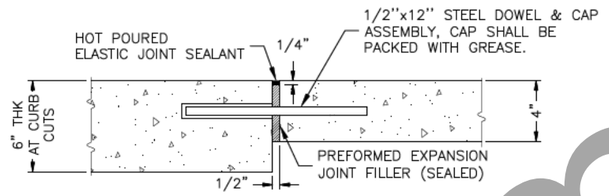
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	E3	E8



PLAN VIEW

NTS



PARTIAL SECTION VIEW A – A

NTS

SIDEWALK & CURB AND GUTTER EXPANSION JOINT DETAIL

EXPANSION JOINT NOTES:

1. INSTALL CONTINUOUS FULL DEPTH 1/8" CONSTRUCTION JOINT AT ALL LOCATIONS WHERE SIDEWALK AND CURB (ANY TYPE) MEET.
2. PROTECT CONCRETE DURING CURE.
3. SEAL ALL EXPANSION JOINTS WITH HOT POURED ELASTIC TYPE JOINT SEAL CONFORMING TO AASHTO DESIGNATION M173–60.

CONCRETE DETAILS

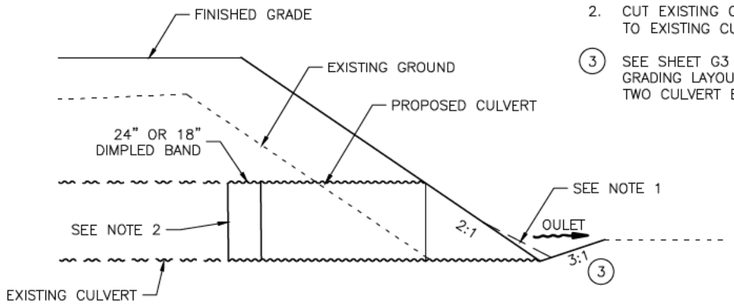
P:\2018\18060FB-DOT_CollegeRd\C\c60001cnst180060FB-E3 Thu, Mar/19/20 02:14pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	E4	E8

CULVERT SUMMARY

BUS PULLOUT LOCATION	603(1) – 18	603(1) – 24	INVERT		613(2) CULVERT MARKER POST	603(3) END SECTION FOR 18" CSP	603(3) END SECTION FOR 24" CSP	AS–BUILT LOCATION		REMARKS
	18"	24"	IN	OUT				LATITUDE	LONGITUDE	
KATHRYN SOUTH	12		––	434.62 S	1	1				CULVERT EXTENSION
KATHRYN SOUTH		24	––	436.29 S	1		1			CULVERT EXTENSION
TOTAL	12	24			2	1	1			



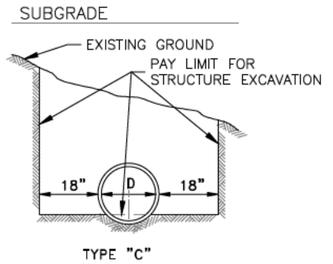
CULVERT EXTENSION AND DRAINAGE DITCH DETAIL

CULVERT EXTENSION AND DRAINAGE NOTES:

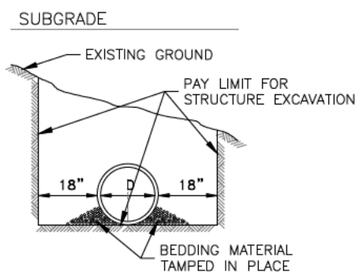
1. INSTALL CULVERT END SECTIONS.
2. CUT EXISTING CULVERT BACK 10' TO REMOVE DAMAGE TO EXISTING CULVERT ENDS.
3. SEE SHEET G3 FOR CULVERT LOCATIONS AND GRADING LAYOUT. GRADE PROPOSED DITCH BETWEEN TWO CULVERT EXTENSIONS.

CULVERT NOTES:

1. CULVERT LENGTH, SKEW, AND LOCATION ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
2. MINIMUM ALLOWABLE CULVERT CROSS SLOPE IS 0.5%.
3. INVERTS GIVEN IN THE CULVERT SUMMARY ARE THE SET ELEVATIONS FOR THE PIPE INVERT UNLESS THE PIPE HAS AN END SECTION IN WHICH CASE, THE END SECTION SHALL BE SET AT THE ELEVATION SHOWN.
4. STRUCTURE EXCAVATION SHALL NOT BE MEASURED FOR PAYMENT AND IS SUBSIDIARY TO 203.0003.0000 AND 603 PAY ITEMS.
5. INSTALL CULVERT END SECTIONS PER STANDARD DRAWING D–06.10. TOE PLATE EXTENSIONS ARE NOT REQUIRED.
6. NEW CULVERT MARKER POSTS MUST BE INSTALLED ON CULVERTS AS SHOWN IN THE CULVERT SUMMARY. ACCORDING TO DETAILS ON SHEET E5.
7. REMOVAL OF EXISTING CULVERTS SHALL BE SUBSIDIARY TO 603 PAY ITEMS.
8. USE 0.064" GAGE STEEL FOR ALL 24" CULVERTS.



TYPE "C"

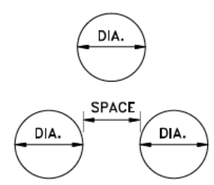


'ALTERNATE' TYPE "C"

CULVERT INSTALLATION NOTES:

1. SIDEFILL SHALL BE PLACED AND COMPACTED WITH CARE UNDER HAUNCHES OF PIPE AND SHALL BE BROUGHT UP EVENLY AND SIMULTANEOUSLY ON BOTH SIDES OF PIPE TO 1 FOOT ABOVE THE TOP OF THE FULL LENGTH OF THE PIPE.
2. ALTERNATE INSTALLATION METHODS MAY ONLY BE USED WHEN SPECIFIED OR APPROVED BY THE ENGINEER.
3. MINIMUM COVER SHALL BE MEASURED FROM THE TOP OF PIPE TO THE TOP OF RIGID PAVEMENT OR TO THE TOP OF FLEXIBLE PAVEMENT SUBGRADE. IN ALL CASES, THE MINIMUM COVER SHALL NOT BE LESS THAN 12". MINIMUM COVER DURING CONSTRUCTION SHALL BE THAT REQUIRED TO PROTECT THE PIPE FROM DAMAGE OR DEFLECTION.

D = NOMINAL PIPE DIAMETER

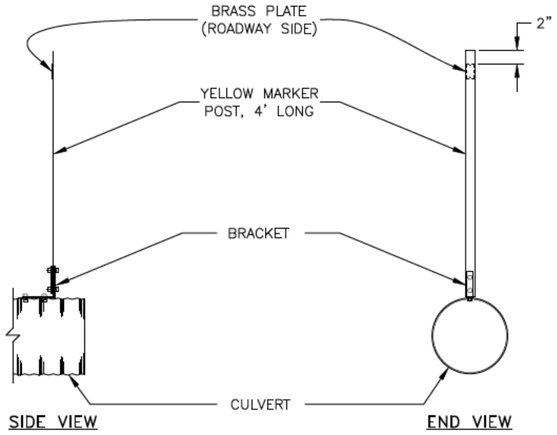


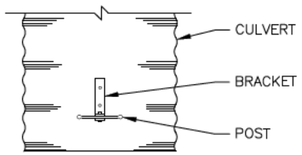
CULVERT DETAILS (1 OF 2)

P:\2018\18060FB-DOT_CollegeRd\C\c60001cnst180060FB-E4 Thu, Mar/19/20 03:12pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	E5	E8



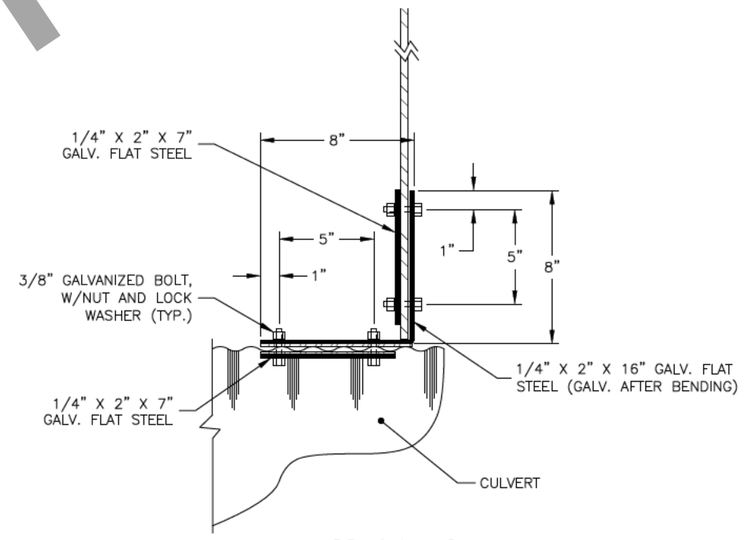


TOP VIEW

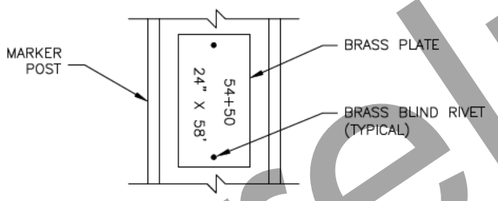
CULVERT MARKER POST DETAIL
NTS

CULVERT MARKER POST NOTES:

1. MARKER POSTS ARE TO BE INSTALLED ON CROSS CULVERTS ONLY.
2. DRILL ALL BOLT HOLES. COAT HOLES WITH ZINC RICH PAINT. FLAME CUTTING SHALL NOT BE PERMITTED.
3. GASKET MATERIAL SHALL BE PLACED BETWEEN DISSIMILAR METALS. GASKET MATERIAL SHALL BE APPROVED PRIOR TO INSTALLATION.

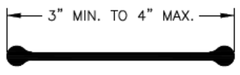


BRACKET DETAIL
NTS



STAMP STATION AND PIPE SIZE, USING 3/8" HIGH MINIMUM LETTERS INTO A 2" X 4" X 0.064" THICK BRASS PLATE. FASTEN PLATE TO THE SIDE FACING THE ROADWAY WITH TWO 1/8" BRASS BLIND RIVETS.

BRASS PLATE DETAIL
NTS



POST DETAIL
NTS

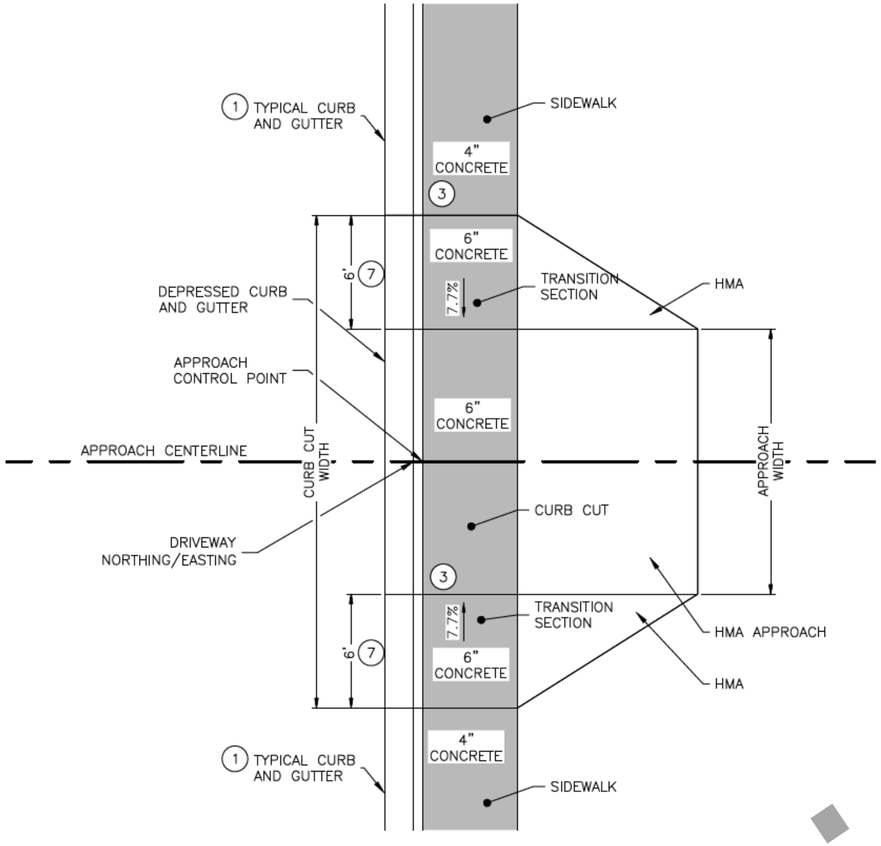
CULVERT MARKER POST DETAILS

CULVERT DETAILS (2 OF 2)

P:\2018\18060FB-DOT_CollegeRd\C\c60001cnst180060FB-E5 Thu, Mar/19/20 02:14pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

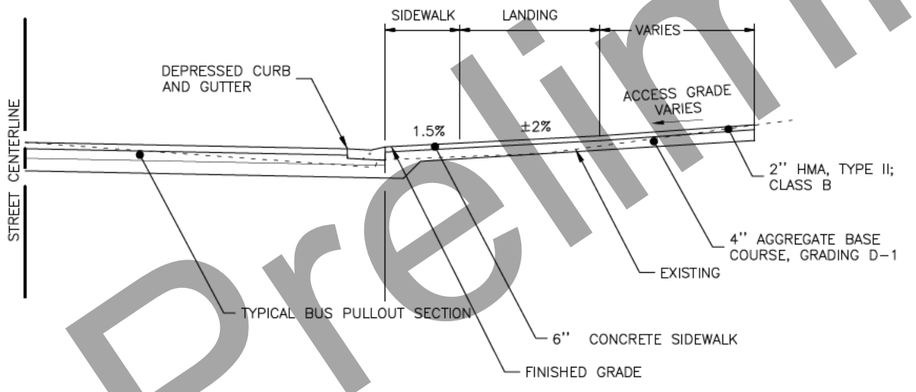
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	E6	E8



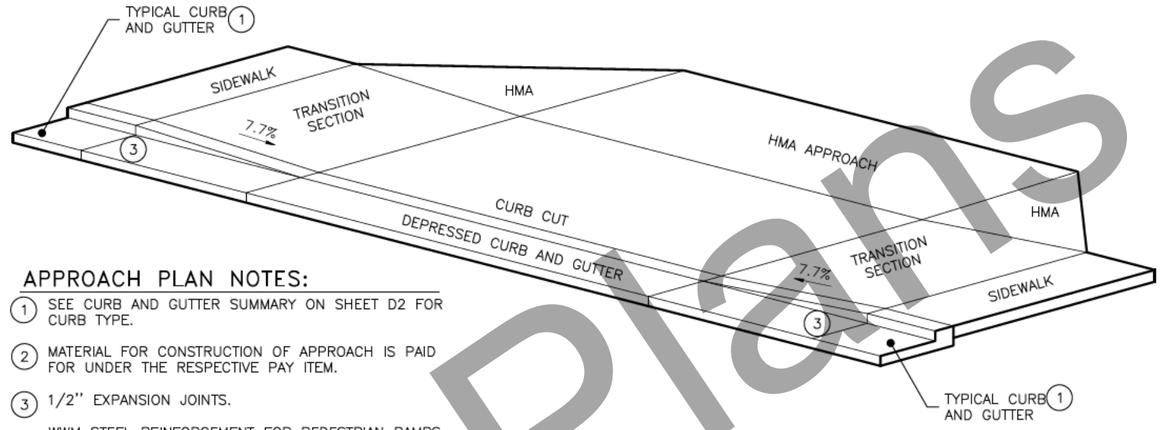
APPROACH PLAN PLAN DETAIL

NTS



APPROACH PLAN SECTION DETAIL

NTS



APPROACH PLAN DETAIL

NTS

APPROACH PLAN NOTES:

1. SEE CURB AND GUTTER SUMMARY ON SHEET D2 FOR CURB TYPE.
2. MATERIAL FOR CONSTRUCTION OF APPROACH IS PAID FOR UNDER THE RESPECTIVE PAY ITEM.
3. 1/2" EXPANSION JOINTS.
4. WWM STEEL REINFORCEMENT FOR PEDESTRIAN RAMPS AND CURB CUTS SHALL BE 6"X6"–W2.9XW2.9. ALL STEEL SHALL BE SET ON SPACERS AND PULLED UP AS REQUIRED TO POSITION STEEL 1 1/2' UP FROM BOTTOM OF SIDEWALK.
5. FOR SIDEWALK REINFORCEMENT, POSITION STEEL 1 1/2" UP FROM BOTTOM OF SIDEWALK.
6. SEE SHEET E3 FOR EXPANSION SIDEWALK & CURB AND GUTTER JOINT DETAIL.
7. TRANSITION SECTION LENGTHS SHOWN IN PLANS ARE APPROXIMATE. CONSTRUCT TRANSITIONS AT A NOMINAL 7.7% GRADE OR FLATTER. SLOPES MAY BE INCREASED TO A MAXIMUM OF 8.3% WHERE SITE CONDITIONS WARRANT.

APPROACH SUMMARY

NO.	SKEW ANGLE (90° TYP.)	WIDTH (FT)	LENGTH (FT)	RADIUS (FT)	LANDING LENGTH (FT)	REMARKS	
1	90°	24	19	--	10	COMMERCIAL (BEAVER SPORTS), SEE G2 FOR DRIVEWAY CONTROL POINTS.	3
2	90°	24	40	--	20	COMMERCIAL (BROWN'S ELECTRIC), SEE G5 FOR DRIVEWAY CONTROL POINTS.	3
3	90°	24	21	--	15	COMMERCIAL (KIRBY CO), SEE G4 FOR DRIVEWAY CONTROL POINTS.	3
TOTAL	3						

APPROACH SECTION NOTES:

1. MAX ALGEBRAIC DIFFERENCE FOR COMMERCIAL ACCESS GRADE: 8%
2. MATERIAL FOR CONSTRUCTION OF APPROACH IS PAID FOR UNDER THE RESPECTIVE PAY ITEM.

(3) APPROACH LENGTHS TIES INTO EXISTING CONDITION PRIOR TO FULL LANDING LENGTH.

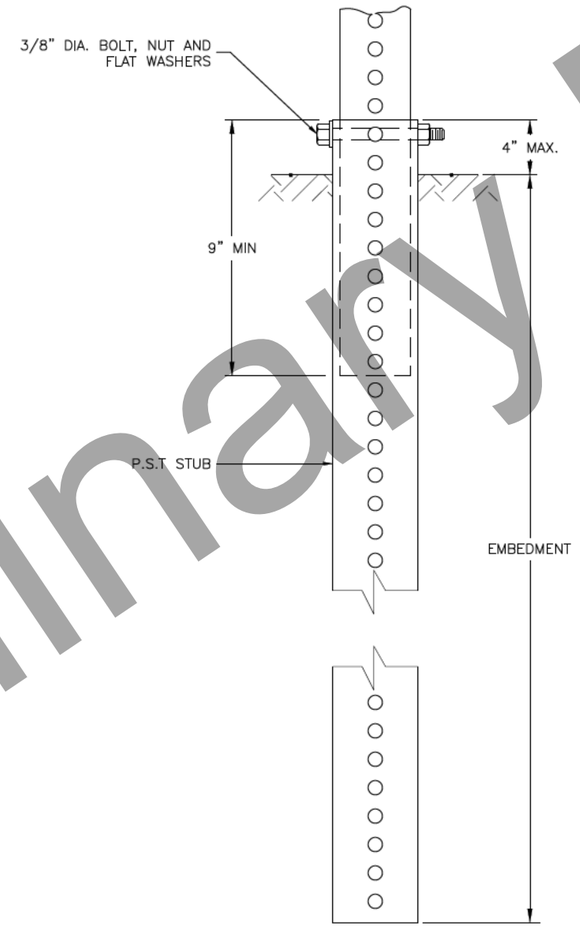
APPROACH DETAILS

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	E7	E8

SIGNING NOTES:

1. REMOVE AND DISPOSE OF ALL EXISTING SIGNS AND FOUNDATIONS WITHIN THE PROJECT LIMITS, EXCEPT THOSE DESIGNATED FOR REINSTALLATION, SALVAGE OR OTHERWISE NOTED.
2. INSTALL PST SIGN POSTS WITH SLEEVE TYPE SOIL EMBEDMENT SHOWN ON E7.
3. MOUNTING HEIGHTS ARE PER STANDARD DRAWINGS S-05.01 UNLESS OTHERWISE NOTED.
4. DETERMINE POST LENGTHS IN THE FIELD. DO NOT EXTEND POSTS ABOVE TOP OF SIGN.
5. MOUNT SIGNS THAT PROJECT OVER OR WITHIN 2 FEET OF THE SIDEWALK WITH A MOUNTING HEIGHT OF 8 FEET.
6. MAINTAIN EXISTING SIGNS UNTIL NEW SIGNS ARE INSTALLED. DO NOT LEAVE DUPLICATE OR CONFLICTING SIGNING UP AT ANY TIME.
7. LOCATE AND PROTECT ALL EXISTING UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO: PIPELINES, INTERCONNECT CABLES, SIGNAL SYSTEMS, LIGHTING SYSTEMS, STORM AND SANITARY SEWERS, WATER SYSTEMS, AND TELEPHONE AND ELECTRICAL CABLES, PRIOR TO INSTALLING SIGN POSTS. NOT ALL EXISTING UTILITIES MAY BE SHOWN ON THE PLANS.
8. ATTACH ALL SIGNS TO THEIR SUPPORTS WITH 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PST POSTS WITH ALUMINUM DRIVE RIVETS. WIND WASHERS ARE NOT REQUIRED WITH DRIVE RIVETS. INCLUDE SPLIT LOCK WASHERS WHEN BOLTS ARE USED.
9. ALL FASTENER HARDWARE SHALL MEET THE REQUIREMENTS OF THE FASTENER SPECIFICATION TABLE ON SHEET E7 OF OUR SET.
10. SIGNS TO BE INSTALLED ON LIGHT POLES MAY REQUIRE TEMPORARY INSTALLATION ON 2-1/2" PST UNTIL THE LIGHT POLES ARE IN PLACE. THIS WORK IS SUBSIDIARY TO PAY ITEM 615.0001.0000.



SLEEVE TYPE SOIL EMBEDMENT

FASTENER SPECIFICATION TABLE		
FASTENER	STEEL	STAINLESS STEEL
BOLTS	ASTM A 307	ASTM F 593
NUTS	ASTM A 563	ASTM F 594
WASHERS	ASTM A 36	ASTM A 480

PERFORATED STEEL TUBES (P.S.T.)		
POST SIZE	EMBEDMENT DEPTH	NO. OF P.S.T. 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.

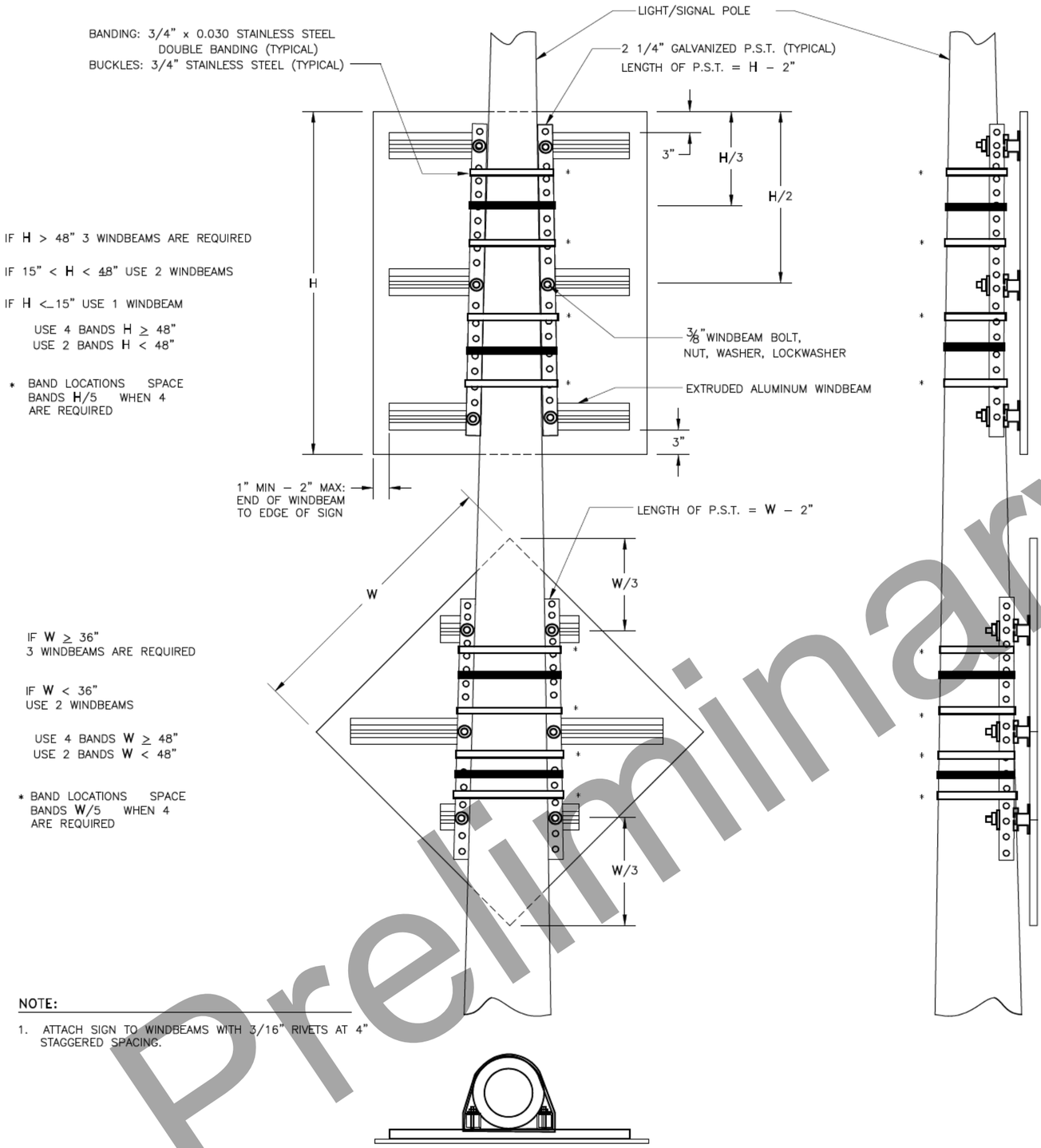
PERFORATED STEEL TUBE(PST) POSTS

SIGN DETAILS (1 OF 2)

P:\2018\18060FB-DOT_CollegeRd\C\c60001cnst180606FB-E7 Sign Details Thu, Mar/19/20 02:15pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

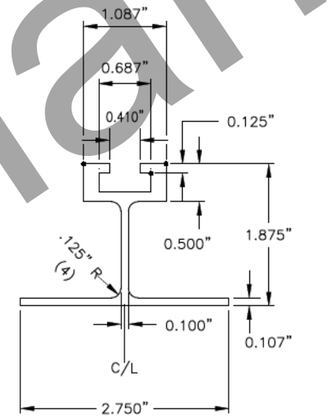
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	E8	E8



NOTE:

1. ATTACH SIGN TO WINDBEAMS WITH 3/16" RIVETS AT 4" STAGGERED SPACING.



NOTES:

1. ALUMINUM ALLOY 6061–T6 SHALL BE USED FOR EXTRUDED WINDBEAM AND RIVETS.
2. ATTACH SIGN TO WINDBEAM WITH 3/16" RIVETS AT 4" STAGGERED SPACING.

EXTRUDED ALUMINUM WINDBEAM

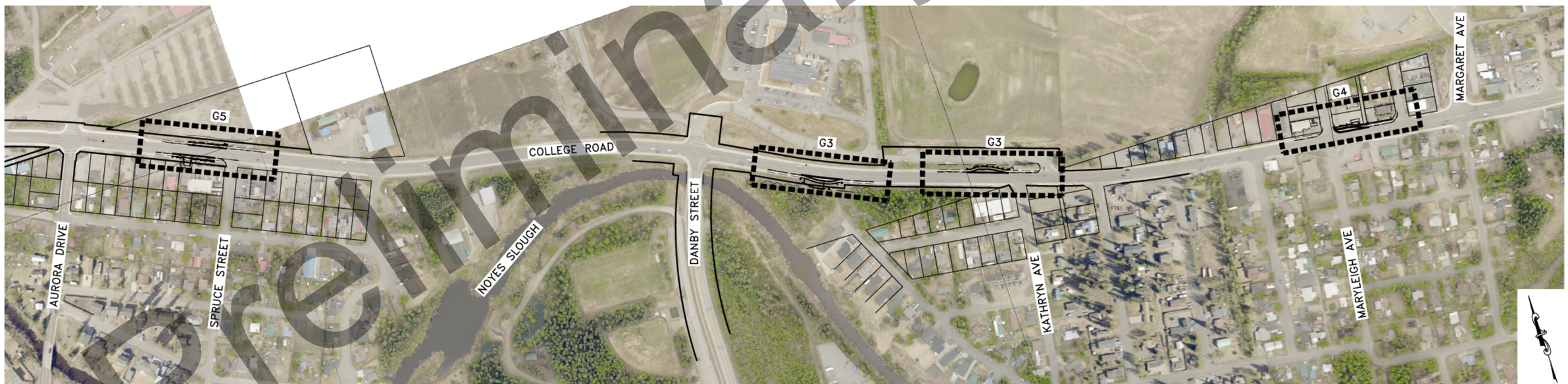
LIGHT / SIGNAL POLE SIGN FRAMING & MOUNTING DETAILS

SIGN DETAILS (2 OF 2)

P:\2018\18060FB-DOT_CollegeRd\C\c60001cnst180060FB-E8 Thu, Mar/19/20 02:15pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	G1	G6



GRADING SHEET LAYOUT

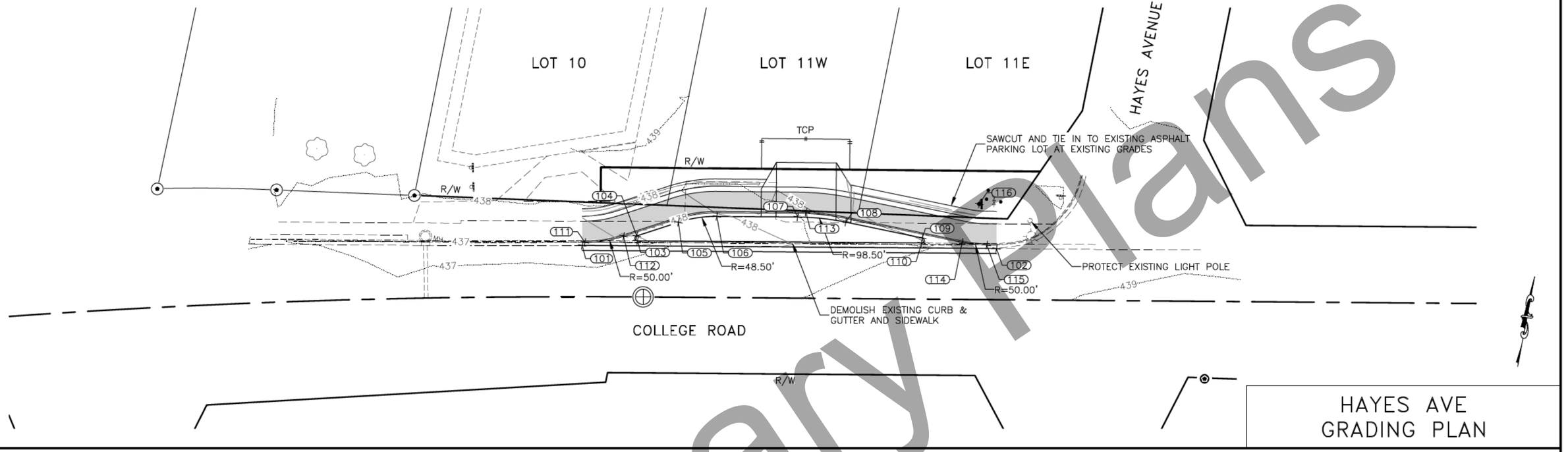
P:\2018\18060FB-DOT_CollegeRd\C\c70001cnst180060FB-G1 Thu, Mar/19/20 03:10pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

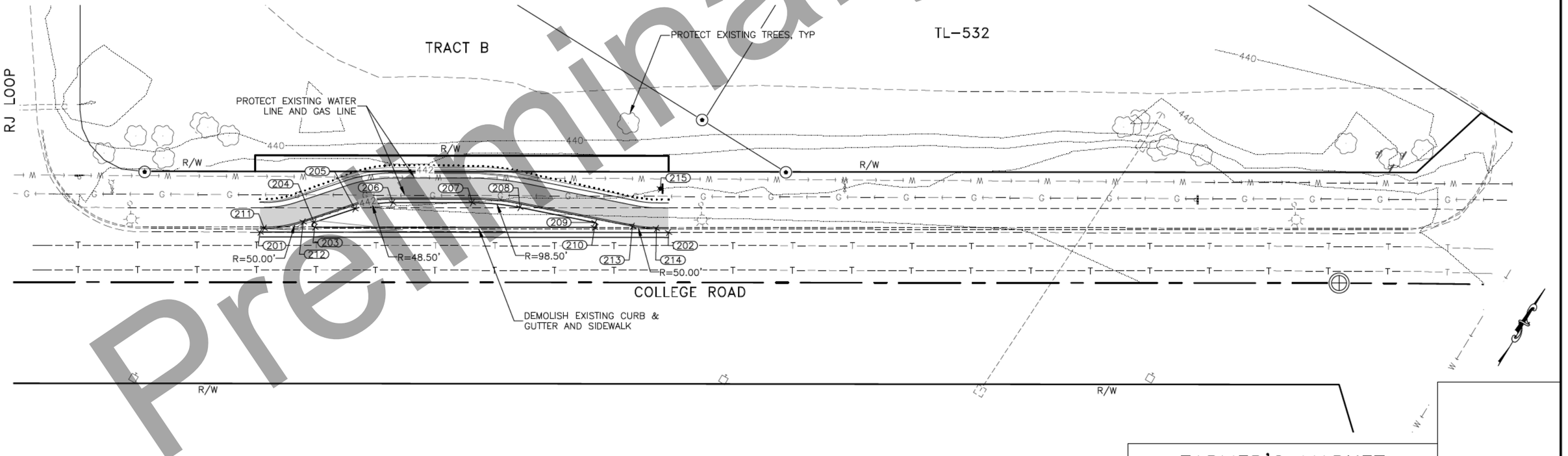
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	G2	G6

NOTE:

1. SEE BUS PULLOUT TYPICAL PLAN ON SHEET B1 FOR CATCH AND SPILL CURB AND GUTTER LOCATIONS.



HAYES AVE
GRADING PLAN



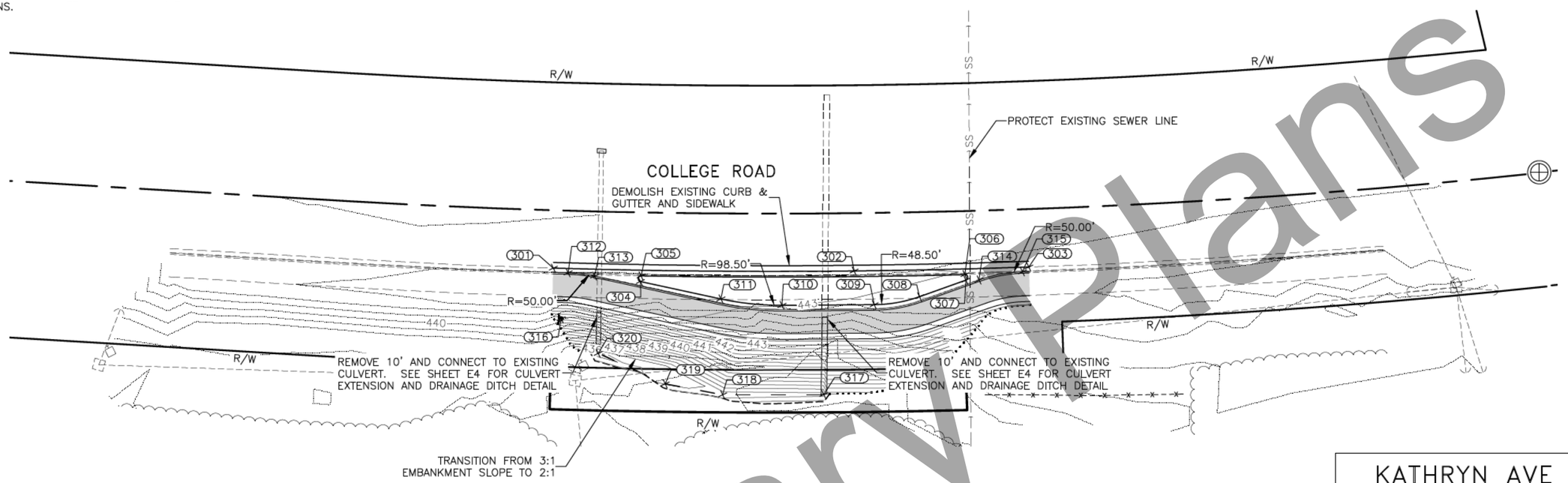
FARMER'S MARKET
GRADING PLAN

NO.	DATE	REVISION

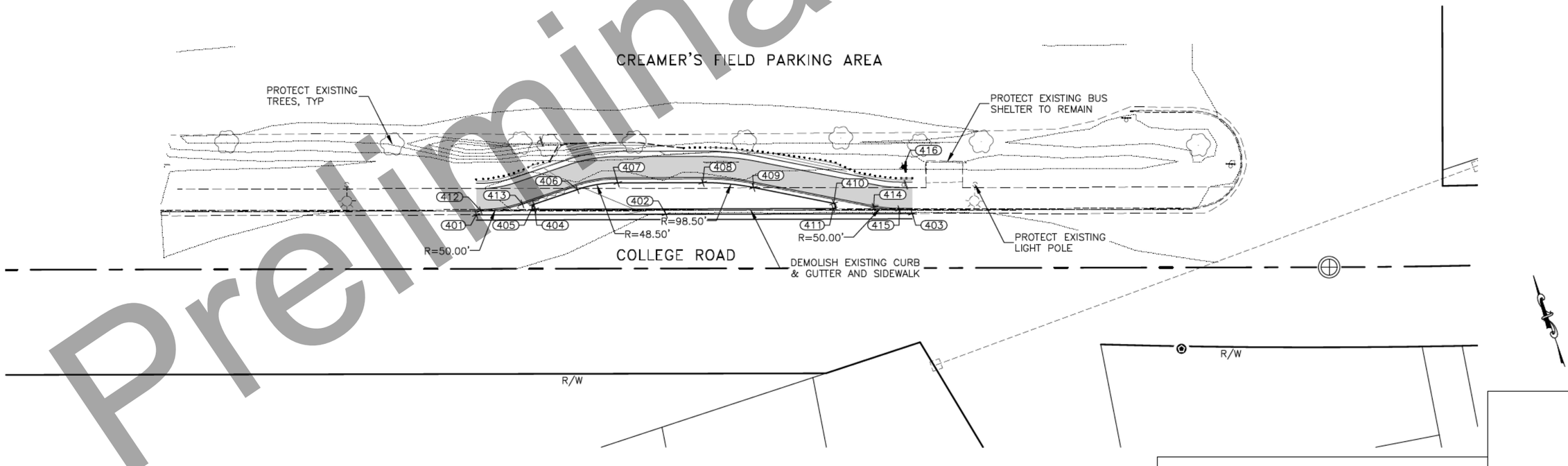
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	G3	G6

NOTE:

1. SEE BUS PULLOUT TYPICAL PLAN ON SHEET B1 FOR CATCH AND SPILL CURB AND GUTTER LOCATIONS.



KATHRYN AVE SOUTH
GRADING PLAN



KATHRYN AVE NORTH
GRADING PLAN

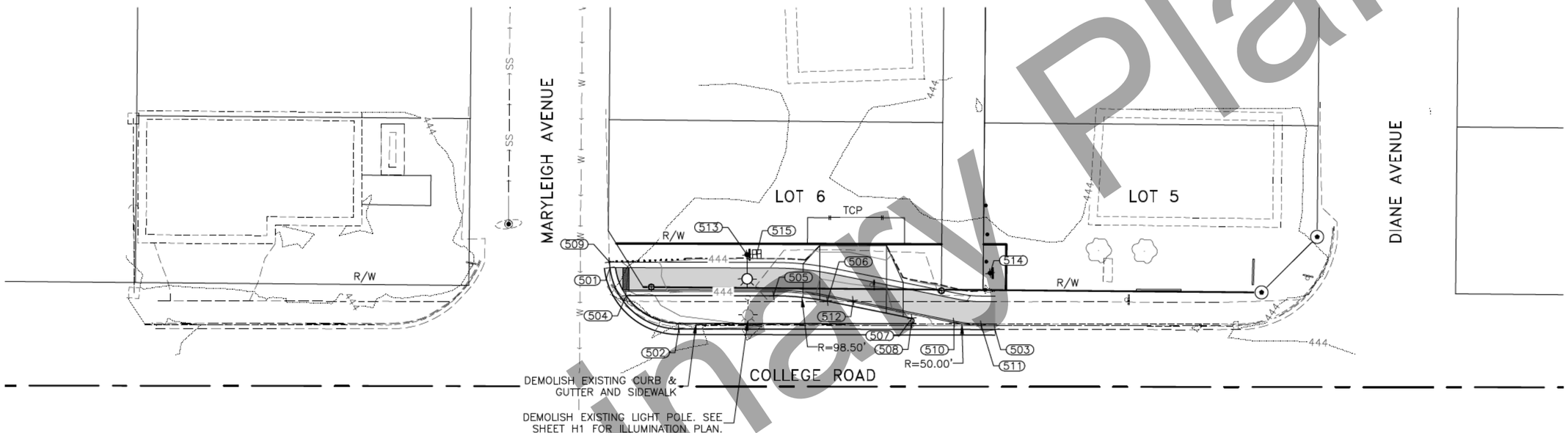
P:\2018\18060FB-DOT_CollegeRd\C\c70002cnst180060fb-G3 Thu, Mar/19/20 03:12pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	G4	G6

NOTE:

1. SEE BUS PULLOUT TYPICAL PLAN ON SHEET B1 FOR CATCH AND SPILL CURB AND GUTTER LOCATIONS.

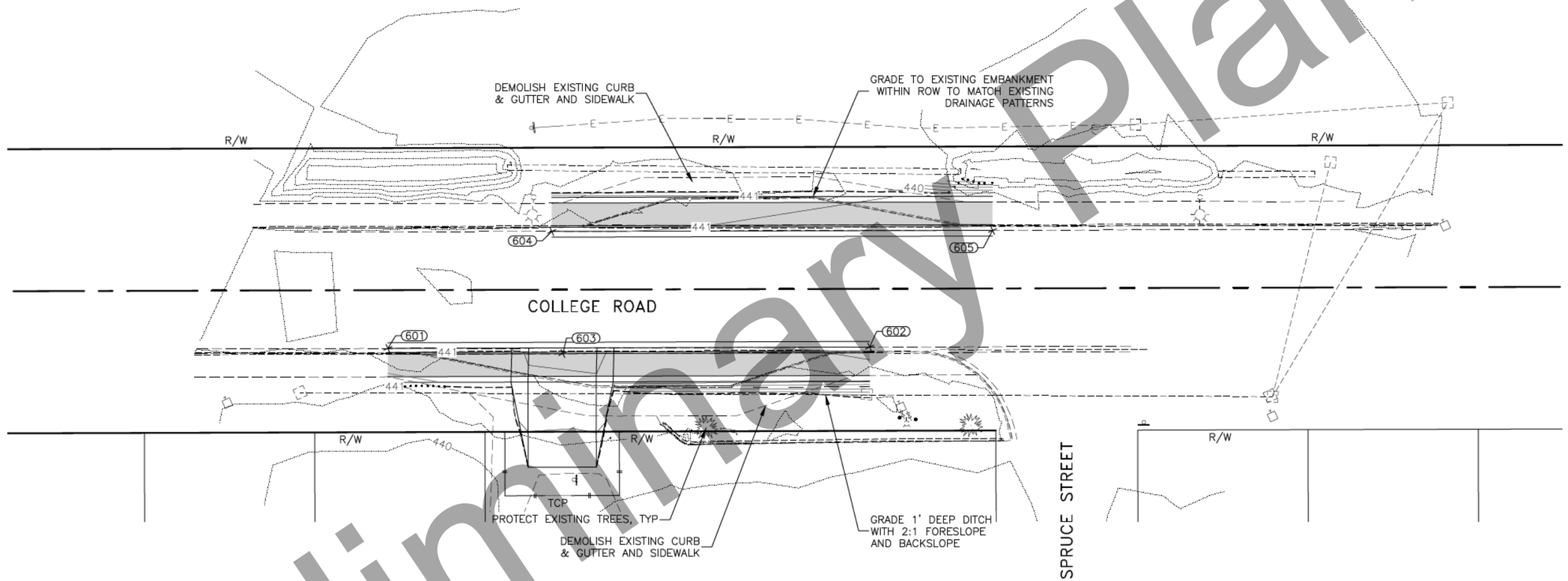


MARYLEIGH AVE
GRADING PLAN

P:\2018\18060FB-DOT_CollegeRd\C\c70002cnst180060fb-G4 Thu, Mar/19/20 03:12pm
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	G5	G6



COLLEGE RD & SPRUCE ST
REMOVAL GRADING PLAN

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	G6	G6

HAYES AVE CONTROL POINT TABLE

PT#	DESC.	NORTHING	EASTING	ELEV.	REMARKS
101	EP	203330.48	664084.78	436.80	
102	EP	203360.01	664248.14	438.28	
103	LOC–PC	203336.39	664106.23	436.96	
104	LOC–PT	203338.25	664105.57	437.00	
105	LOC–PC	203346.69	664121.00	437.26	
106	LOC–PT	203351.87	664135.65	437.70	
107	LOC–PC	203357.63	664167.54	437.74	
108	LOC–PT	203359.19	664186.82	437.87	
109	LOC–PC	203358.63	664218.14	438.02	
110	LOC–PT	203356.64	664218.30	437.98	
111	TBC–PC	203331.87	664085.63	436.87	
112	TBC–PT	203337.16	664100.45	437.49	
113	TBC–DWAY	203360.14	664170.46	438.33	
114	TBC–PC	203359.84	664234.18	438.14	
115	TBC–PT	203360.65	664244.05	438.45	
116	SIGN	203376.24	664238.07		

FARMERS MARKET CONTROL POINT TABLE

PT#	DESC.	NORTHING	EASTING	ELEV.	REMARKS
201	EP	205292.68	667726.67	441.43	
202	EP	205378.76	667868.60	441.78	
203	LOC–PC	205305.91	667744.63	441.44	
204	LOC–PT	205307.41	667743.35	441.48	
205	LOC–PC	205320.78	667754.68	441.63	
206	LOC–PT	205330.88	667766.52	441.71	
207	LOC–PC	205347.67	667794.19	441.78	
208	LOC–PT	205356.05	667811.70	441.78	
209	LOC–PC	205366.66	667840.97	441.72	
210	LOC–PT	205364.86	667841.83	441.68	
211	TBC–PC	205294.84	667727.35	442.00	
212	TBC–PT	205305.26	667739.56	442.01	
213	TBC–PC	205373.25	667854.75	441.74	
214	TBC–PT	205377.50	667863.64	442.33	
215	SIGN	205392.23	667856.53		

KATHRYN AVE SOUTH CONTROL POINT TABLE

PT#	DESC.	NORTHING	EASTING	ELEV.	REMARKS
301	LOC–PC	204712.75	674270.14	442.62	
302	LOC	204666.96	674365.61	442.88	
303	LOC–PT	204642.17	674421.91	443.17	
304	LOC–PC	204695.48	674295.90	442.71	
305	LOC–PRC	204697.18	674296.94	442.67	
306	LOC–PRC	204649.28	674400.38	443.03	
307	LOC–PT	204647.36	674399.88	443.07	
308	LOC–PC	204649.02	674382.63	443.10	
309	LOC–PT	204653.23	674367.00	443.08	
310	LOC–PC	204666.78	674337.51	442.99	
311	LOC–PT	204677.91	674318.98	442.89	
312	LOC–PC	204709.04	674274.16	443.20	
313	LOC–PT	204704.08	674282.13	442.65	
314	LOC–PC	204645.45	674404.12	443.63	
315	LOC–PT	204641.59	674419.16	443.72	
316	SIGN	204695.38	674265.10	440.67	
317	FL	204632.11	674337.53	436.30	
318	FL	204647.13	674305.24	436.12	
319	FL	204659.18	674288.56	435.92	
320	FL	204678.87	674271.75	434.62	

KATHRYN AVE NORTH CONTROL POINT TABLE

PT#	DESC.	NORTHING	EASTING	ELEV.	REMARKS
401	LOC	204511.81	674906.44	442.52	
402	LOC	204488.34	674974.72	443.13	
403	LOC	204457.80	675063.41	443.06	
404	LOC–PC	204506.47	674928.10	442.68	
405	LOC–PT	204508.42	674928.44	442.72	
406	LOC–PC	204508.26	674945.96	442.97	
407	LOC–PT	204505.62	674961.31	443.15	
408	LOC–PC	204495.10	674991.91	443.29	
409	LOC–PT	204487.00	675009.55	443.24	
410	LOC–PC	204471.30	675036.43	443.09	
411	LOC–PT	204469.49	675035.60	443.05	
412	TBC–PC	204512.67	674908.55	443.10	
413	TBC–PT	204509.95	674924.36	443.22	
414	TBC–PC	204464.93	675050.31	443.06	
415	TBC–PT	204460.82	675059.27	443.63	
416	SIGN	204475.70	675066.04		

MARYLEIGH AVE CONTROL POINT TABLE

PT#	DESC.	NORTHING	EASTING	ELEV.	REMARKS
501	LOC–PC	204217.08	676358.95	443.82	
502	LOC–PT	204191.92	676380.56	443.91	
503	LOC	204176.52	676493.25	444.26	
504	LOC–PI	204206.38	676363.39	443.86	
505	LOC–PC	204199.20	676415.92	444.23	
506	LOC–PT	204194.67	676434.84	444.24	
507	LOC–PRC	204184.51	676464.14	444.19	
508	LOC–PRC	204182.58	676463.68	444.15	
509	SDWK–SHLDR	204219.09	676359.05	443.83	
510	TBC–PC	204180.97	676478.93	444.80	
511	TBC–PT	204178.67	676488.54	444.81	
512	TBC–DWAY	204193.59	676444.05	444.41	
513	LIGHT POLE	204215.09	676408.45		
514	SIGN	204196.85	676494.25		
515	J–BOX, TYPE 1A	204214.85	676411.96		

SPRUCE STREET CONTROL POINT TABLE

PT#	DESC.	NORTHING	EASTING	ELEV.	REMARKS
601	LOC	205587.84	671905.29	440.83	
602	LOC	205518.36	672060.19	440.40	
603	TBC–DWAY	205560.77	671960.74	440.89	
604	LOC	205601.56	671974.88	440.56	
605	LOC	205537.95	672116.59	440.20	

NOTES:

1. POINTS WITH BLANK ELEVATIONS ARE INTENDED TO MATCH EXISTING ELEVATIONS.

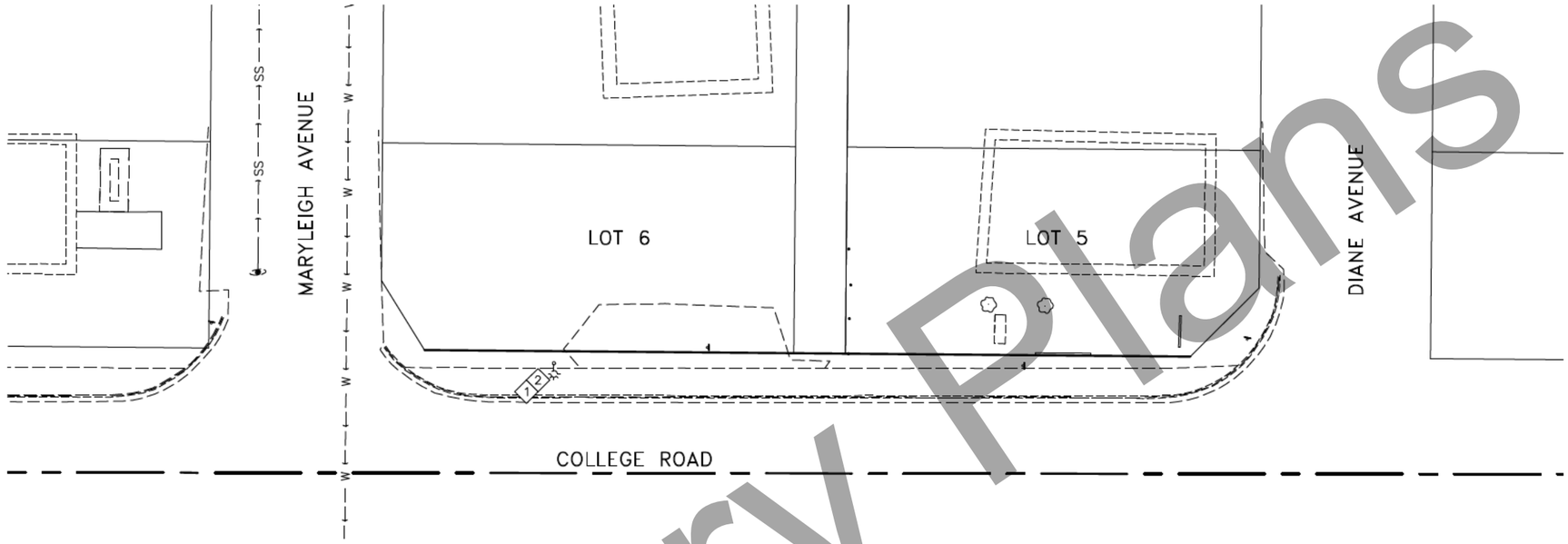
GRADING CONTROL POINT TABLES

NO.	DATE	REVISION

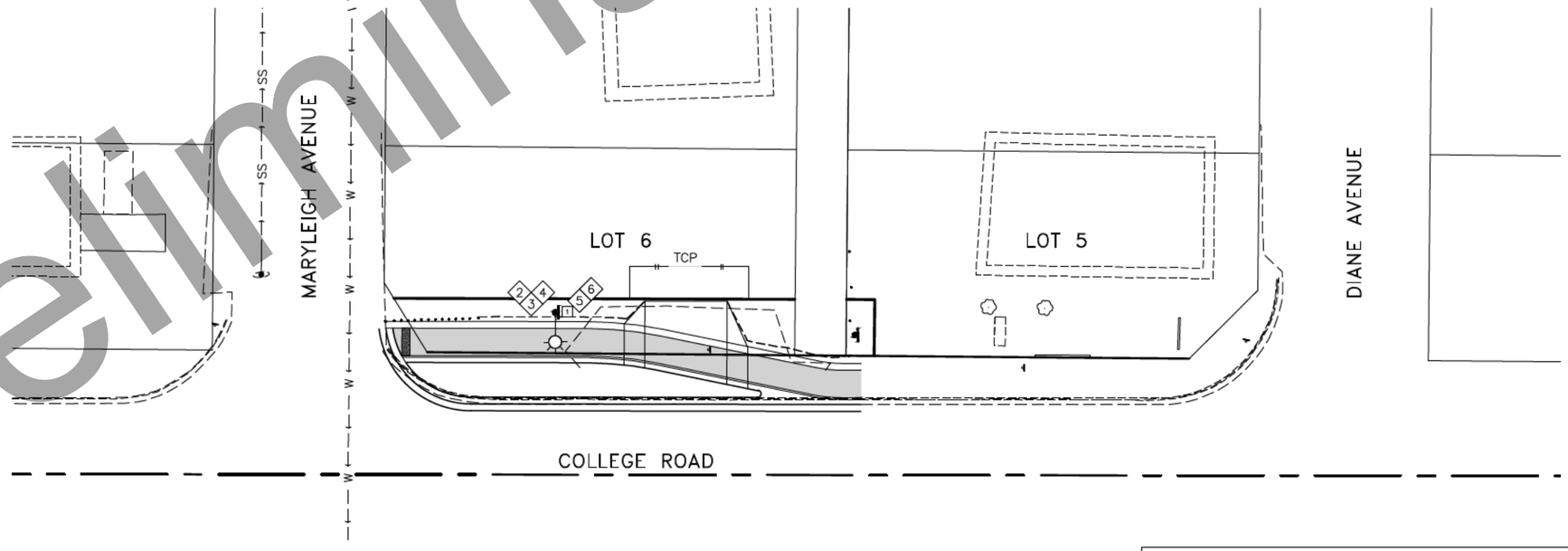
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	H1	H2

SHEET KEYNOTES ⟨#⟩

1. DEMOLISH EXISTING ELECTROLIER. COORDINATE WITH DOT&PF MAINTENANCE AND OPERATIONS TO IDENTIFY AND DE-ENERGIZE EXISTING CIRCUIT AS REQUIRED. TURN EXISTING POLE OVER TO DOT PROJECT MANAGER.
2. INTERCEPT EXISTING RMC CONDUIT AT 30" DEPTH FROM UPSTREAM ELECTROLIER. EXTEND CONDUIT AS REQUIRED AND PROVIDE NEW CONDUCTORS FROM UPSTREAM ELECTROLIER TO RELOCATED ELECTROLIER. DO NOT SPLICE CONDUCTORS.
3. PROVIDE NEW FOUNDATION. MOUNT ELECTROLIER AT LOCATION SHOWN IN PLANS. PROVIDE ELECTROLIER AND RECONNECT TO EXISTING LIGHTING CIRCUIT. SET CENTER OF FOUNDATION 24" FROM BACK OF SIDEWALK. SEE SHEET H2 FOR LIGHT POLE FOUNDATION.
4. PROVIDE NEW LUMINAIRE AND POLE. PROVIDE MOUNTING HARDWARE, ADAPTERS, AND ACCESSORIES REQUIRED FOR MOUNTING. BASIS OF DESIGN FOR LUMINAIRE IS CREE RSWX-A-HT-3ME-24L-30K7-UH-GY-N-Q9. PROVIDE WITH WIRELESS CONTROL NODE COMPATIBLE WITH EXISTING GE LIGHTGRID LIGHTING CONTROL AND MANAGEMENT SYSTEM. PROVIDE 10 YEARS OF GATEWAY SOFTWARE WEB HOSTING. BASIS OF DESIGN FOR POLE IS VALMONT 30' TAPERED STEEL POLE WITH 8' MAST ARM, VALMONT DS32-30'SHAFT-16'4"LMA-GV-HH.
5. PROVIDE DOT TYPE 1A JUNCTION BOX WITHIN 3 FEET OF POLE BASE. COORDINATE EXACT LOCATION WITH CIVIL AND EXISTING UTILITIES. LID SHALL BE LABELED "LIGHTING".
6. COMPLY WITH DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2020 EDITION, SECTION 660.



MARYLEIGH AVE DEMOLITION
ILLUMINATION PLAN



MARYLEIGH AVE
ILLUMINATION PLAN

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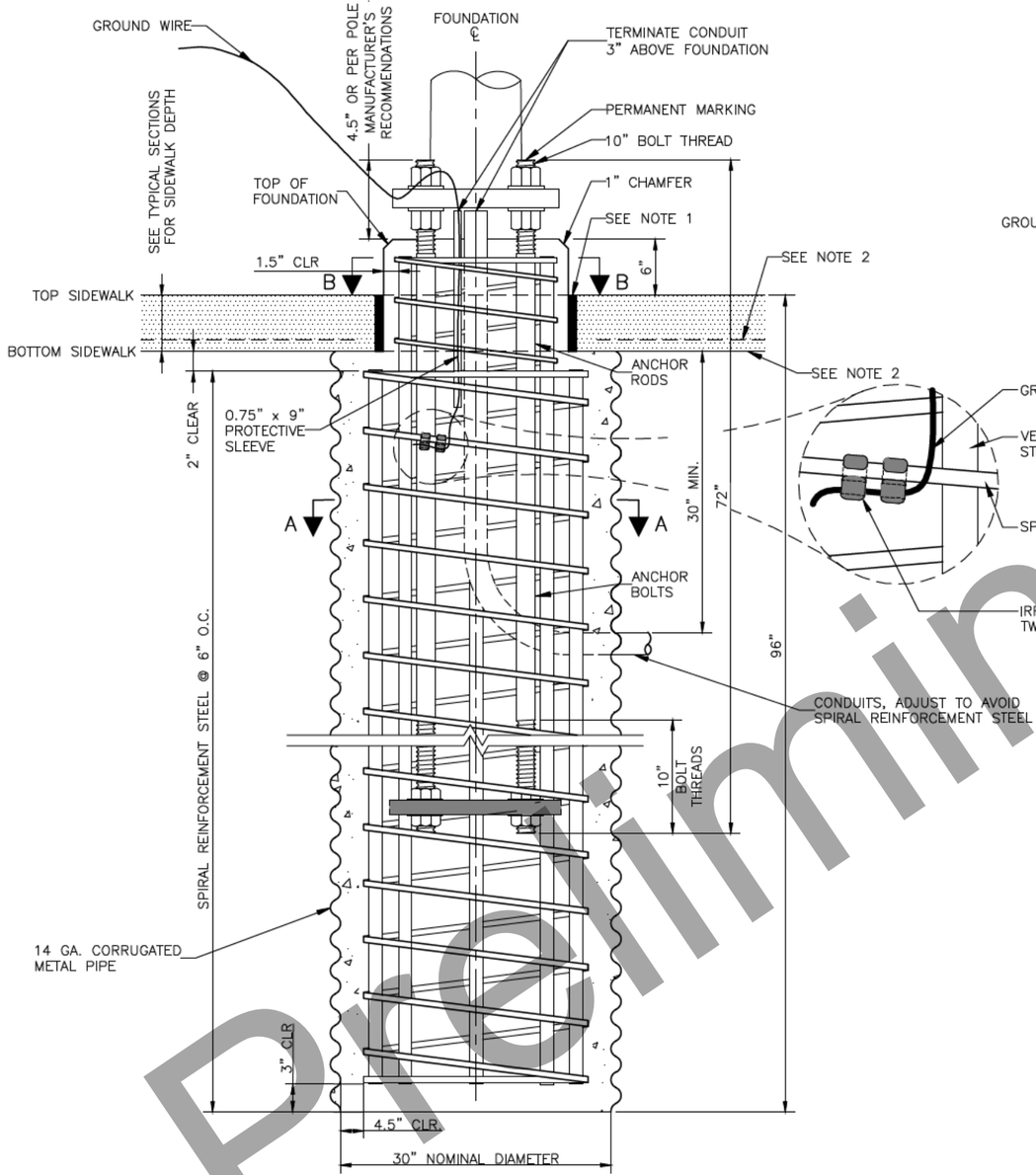
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

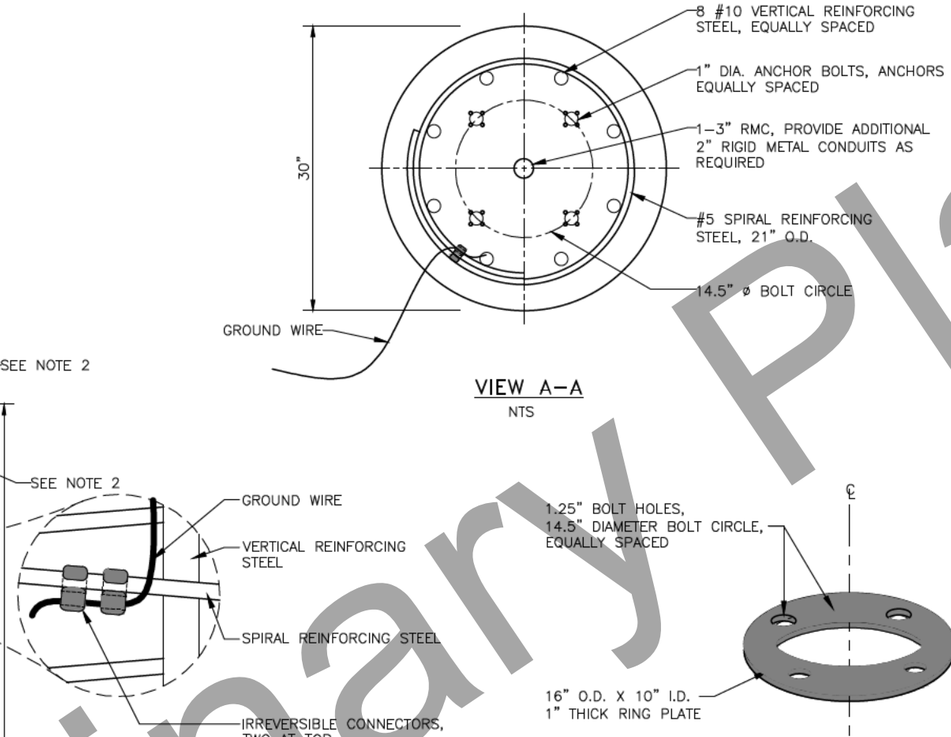
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	H2	H2



FOUNDATION DETAILS

(20" DIAMETER DECORATIVE CLAM SHELL BASE COVER NOT SHOWN FOR CLARITY)

NTS

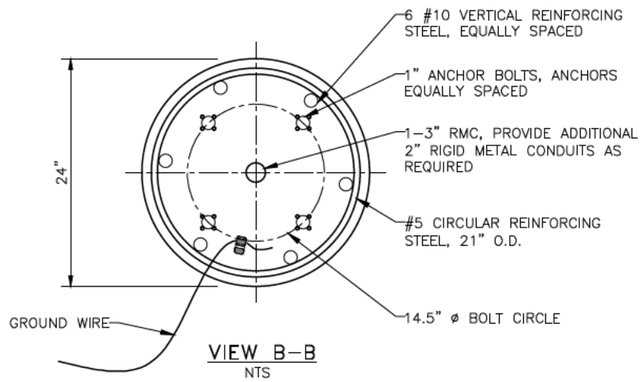


VIEW A–A

NTS

RING PLATE DETAILS

NTS



VIEW B–B

NTS

MATERIAL REQUIREMENTS		
ANCHOR RODS 1" X 72"	ASTM F1554 S2, S3, & S5	GR 105
FASTENERS, WASHERS	AASHTO M293	
FASTENERS, NUTS	AASHTO M292	
FINISH, ANCHOR RODS & FASTENERS	AASHTO M232	
RING PLATE	AASHTO M270	GR 36

NOTES:

1. INSTALL 1/2 INCH CONSTRUCTION JOINT MATERIAL BETWEEN NEW CONCRETE SIDEWALK AND POLE FOUNDATION. SEAL JOINT WITH HOT POURED ELASTIC TYPE JOINT SEAL CONFORMING TO AASHTO DESIGNATION M173–60.
2. FOR ANY PORTION OF A PCC SIDEWALK PANEL LOCATED OVER THE POLE FOUNDATION, INSTALL WWM STEEL REINFORCEMENT FOR THE WHOLE PANEL. WWM STEEL REINFORCEMENT SHALL BE 4"X4" – W2.9 X W2.9. STEEL SHALL BE SET ON SPACERS AND PULLED UP AS REQUIRED TO POSITION STEEL 1/3 X (SIDEWALK THICKNESS IN INCHES) UP FROM BOTTOM OF SIDEWALK.
3. PROVIDE PLASTIC SHEETING BOND BREAKER MATERIAL BETWEEN THE BOTTOM OF THE REINFORCED SIDEWALK PANEL, AND THE TOP OF THE 30 INCH POLE FOUNDATION AND BASE MATERIAL.
4. THE RING PLATE MAY BE "BUILT UP" OF MULTIPLE STEEL PLATES. THE MINIMUM THICKNESS FOR ANY ONE PLATE IS 0.5 INCH. FASTEN THE RING PLATE TO ANCHOR RODS WITH NUTS AND WASHERS ON BOTH SIDES OF RING PLATE AS SHOWN. TORQUE RING PLATE NUTS TO 600 FT–LBS.
5. ANCHOR RODS ARE SUBJECT TO CHARPY V–NOTCH IMPACT TESTING. SUBMIT MILL CERTIFICATIONS FOR ANCHOR RODS, NUTS AND WASHERS. GALVANIZE ANCHOR RODS FULL LENGTH. PROVIDE PERMANENT MANUFACTURER'S IDENTIFICATION AND PERMANENT GRADE IDENTIFICATION ON EACH END OF ANCHOR ROD BY STEEL DIE STAMP. SECURE EXPOSED ANCHOR RODS WITH A "RING PLATE" WHEN NOT IN SERVICE. INSTALL ANCHOR RODS PLUMB. ANCHOR RODS GREATER THAN 1:40 OUT–OF–PLUMB WILL RESULT IN FOUNDATION REJECTION.
6. PROVIDE 1.5 EXTRA TURNS AT EACH END OF THE SPIRAL REINFORCING STEEL. REINFORCING STEEL SHALL NOT BE SPLICED. TIE VERTICAL REINFORCING STEEL TO EACH INTERSECTION OF THE SPIRAL REINFORCING STEEL.
7. CONNECT GROUND WIRE NEAR THE TOP SPIRAL REINFORCING STEEL WITH TWO IRREVERSIBLE CONNECTORS AS SHOWN. FASTEN CONNECTORS ACCORDING TO THE MANUFACTURERS' RECOMMENDATIONS INCLUDING THE USE OF MANUFACTURER SPECIFIED TOOLS. THE GROUND WIRE MAY BE BARE SOLID, STRANDED, OR BRAIDED COPPER. PROTECT GROUND WIRE WITH PROTECTIVE SLEEVE AS SHOWN AND FILL WITH SILICON SEALANT.
8. COMPLETE ALL CONCRETE WORK IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS. USE A TUBE WITH A HOPPER HEAD OR OTHER APPROVED DEVICE WHEN DROPPING CONCRETE MORE THAN 5 FEET. VIBRATE CONCRETE DURING PLACEMENT BY MECHANICAL VIBRATION. ENSURE UPPER ANCHOR ROD THREADS ARE PROTECTED FROM CONTACT WITH CONCRETE DURING POUR.
9. THE UPPER FOUNDATION SECTION SHALL BE FORMED.
10. EXPOSED CONCRETE SURFACES SHALL RECEIVE A SACK RUBBED FINISH.

MARYLEIGH AVE ILLUMINATION BASE DETAIL

P:\2018\18060FB–DOT_CollegeRd\E\e70002cnst180606fb–H2 Thu, Mar/19/20 11:56am
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743–3200

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	Q1	Q6

GENERAL NOTES:

1. THIS ESCP IS A GENERAL PLAN FOR GUIDING THE DEVELOPMENT OF THE CONTRACTORS SWPPP. THE CONTRACTOR IS EXPECTED TO PROVIDE ADDITIONAL DETAILS AND BMP'S BASED ON THE CONTRACTORS ACTUAL SCHEDULE AND CONSTRUCTION METHODS, AS REQUIRED TO COMPLY WITH THE 2016 CONSTRUCTION GENERAL PERMIT.
2. CONSTRUCTION ENTRANCE/EXIT MUST BE ESTABLISHED TO MINIMIZE OFF SITE IMPACTS.
3. INSTALL PERIMETER CONTROL BMP WHEN WORKING WITH 25 FEET OF SURFACE WATERS AND ALONG WETLANDS WHERE A 25 FOOT VEGETATIVE BUFFER IS NOT RETAINED.
4. AREAS OF DISTURBANCE, TEMPORARY AND PERMANENT STABILIZATION, WILL BE MARKED AS WORK PROCEEDS AND ADDED TO THE LEGEND.
5. THERE ARE NO PUBLIC WATER PROTECTION AREAS THAT INTERSECT WITH THE BOUNDARY.
6. IF THE DEPARTMENT PROVIDES AN AREA FOR A SUPPORT ACTIVITY (E.G. AVAILABLE MATERIAL SITE, STAGING AREA, ETC.) PROVIDE A MAP SHOWING ALL REQUIREMENTS LISTED IN SECTION 5.5.5 OF THE CGP.

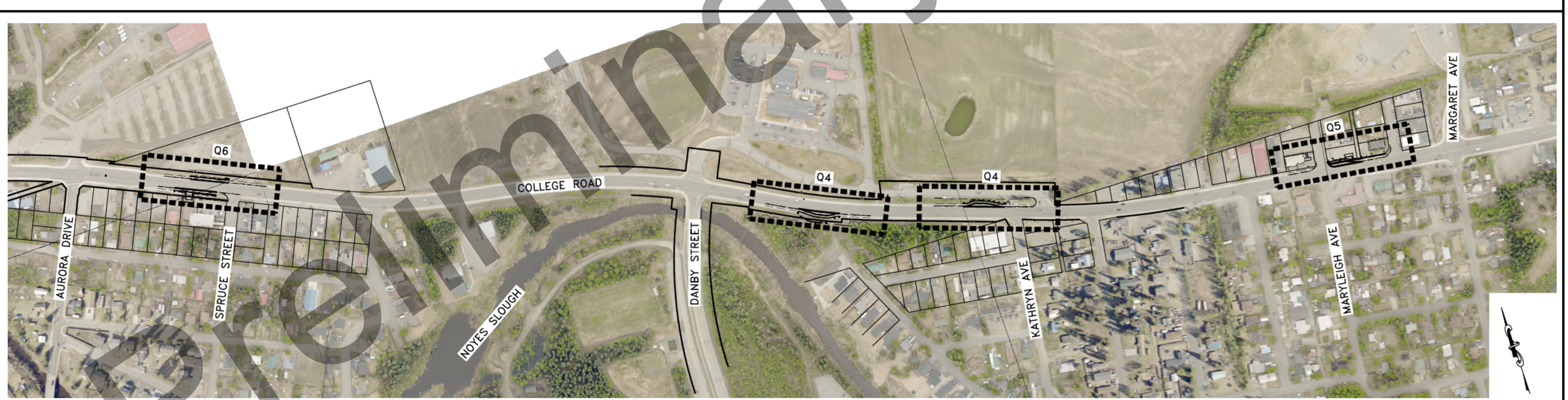
ESCP LEGEND:

- PARCEL BOUNDARY
- SURFACE WATER FLOW DIRECTION
- INLET PROTECTION (SEE BMP 08.00 DOT&PF SWPPP GUIDE)
- VELOCITY DISSIPATOR (RIPRAP CLASS II OR FUNCTIONAL EQUIVALENT)
- WETLANDS
- UPLANDS
- DITCH LINE
- APPROXIMATE LIMITS OF EARTH DISTURBANCE
- PERIMETER CONTROL
- TEMPORARY CHECK DAM (SEE BMP 31.00–33.00 DOT&PF SWPPP GUIDE)
- VEHICLE TRACKING ENTRANCE/EXIT

EROSION SEDIMENT CONTROL PLAN NOTES

NO.	DATE	REVISION

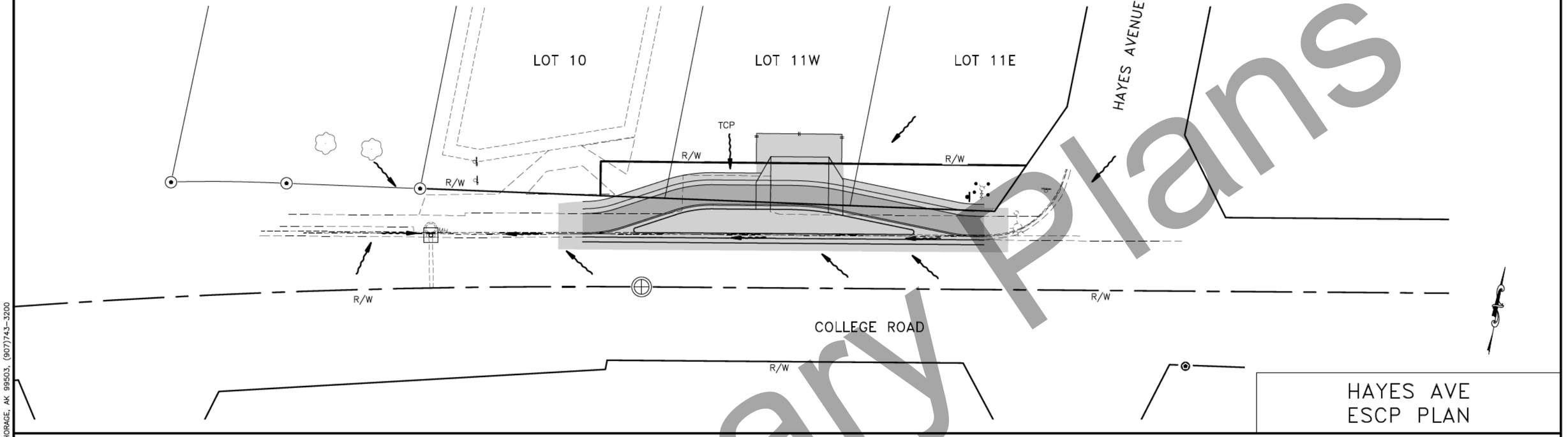
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	Q2	Q6



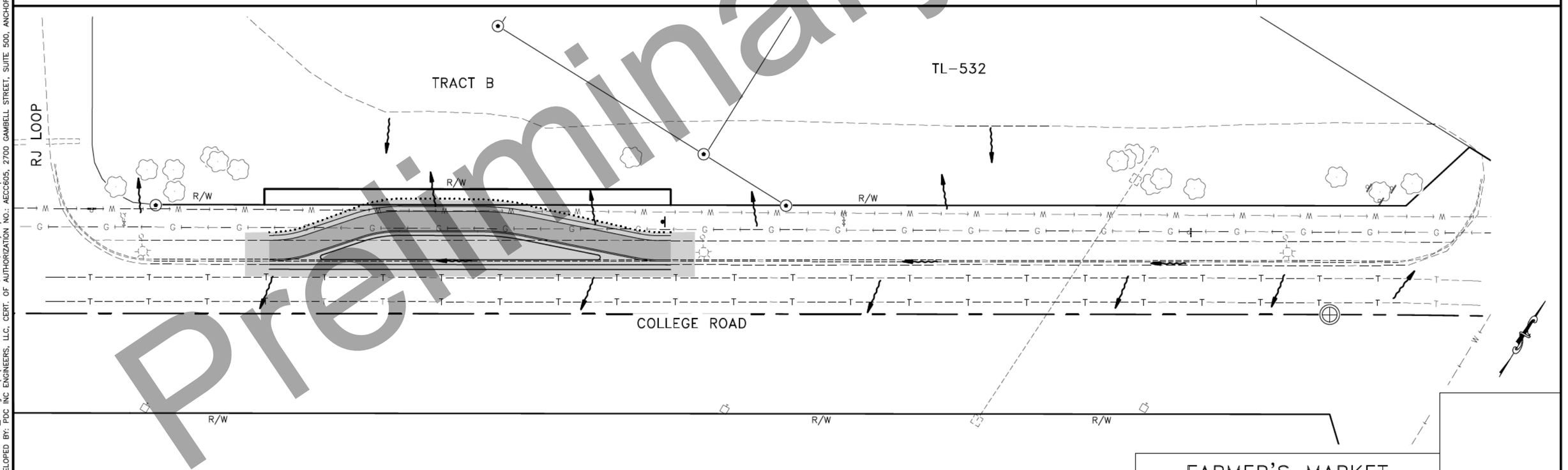
EROSION SEDIMENT CONTROL PLAN

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	Q3	Q6



HAYES AVE
ESCP PLAN



FARMER'S MARKET
ESCP PLAN

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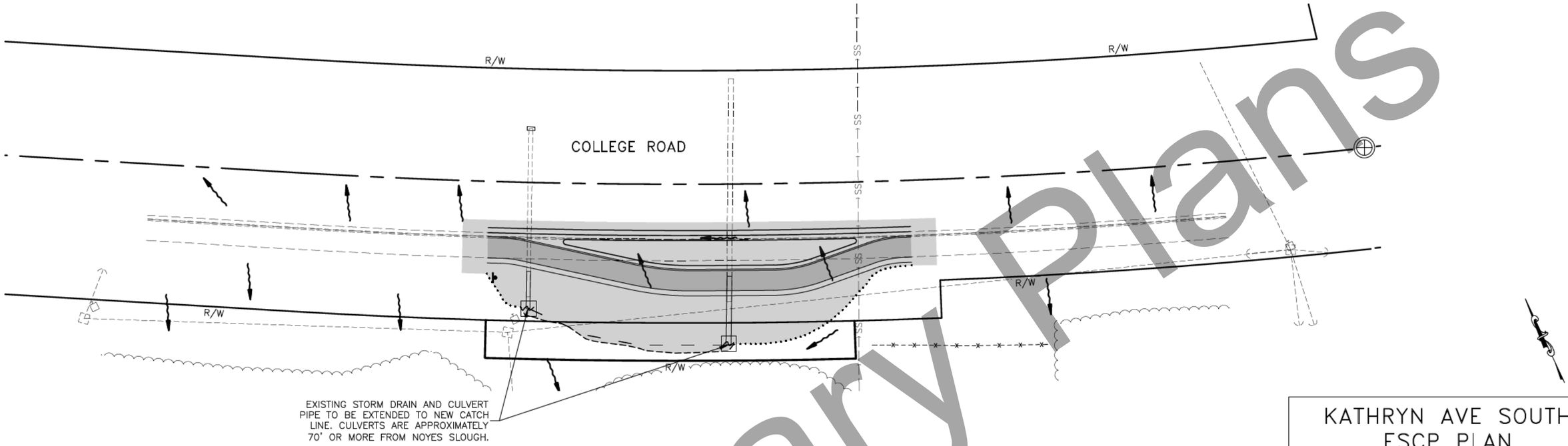
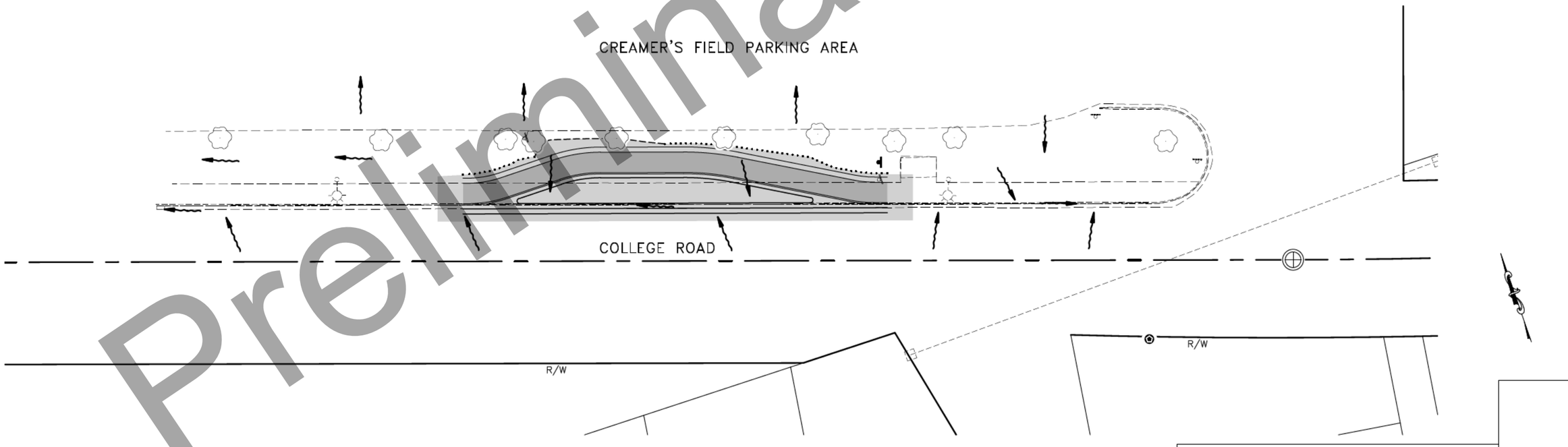
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	Q4	Q6



KATHRYN AVE SOUTH
ESCP PLAN



KATHRYN AVE NORTH
ESCP PLAN

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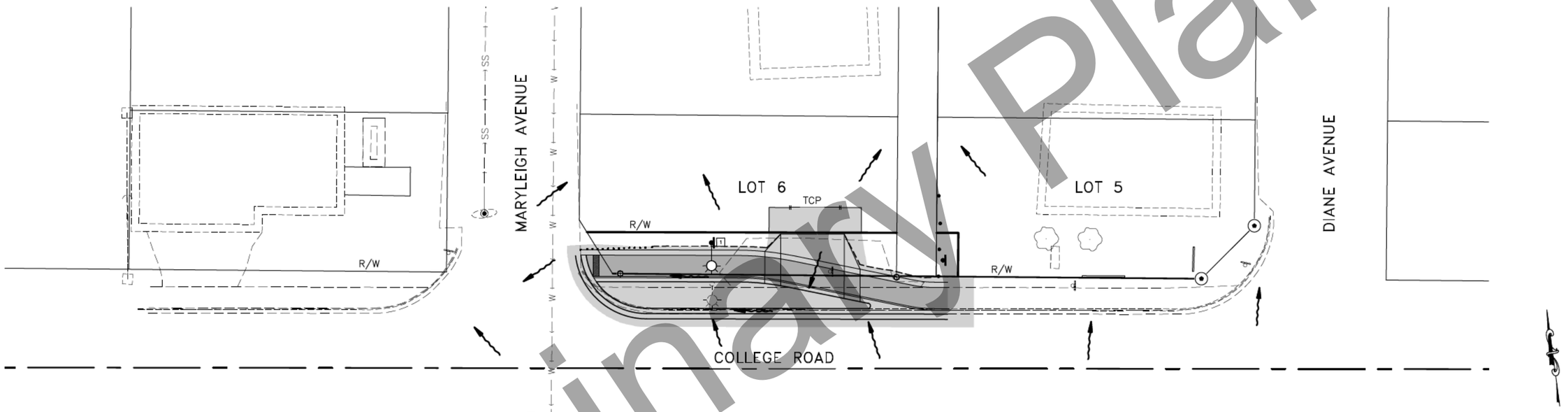
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	Q5	Q6



MARYLEIGH AVE
ESCP PLAN

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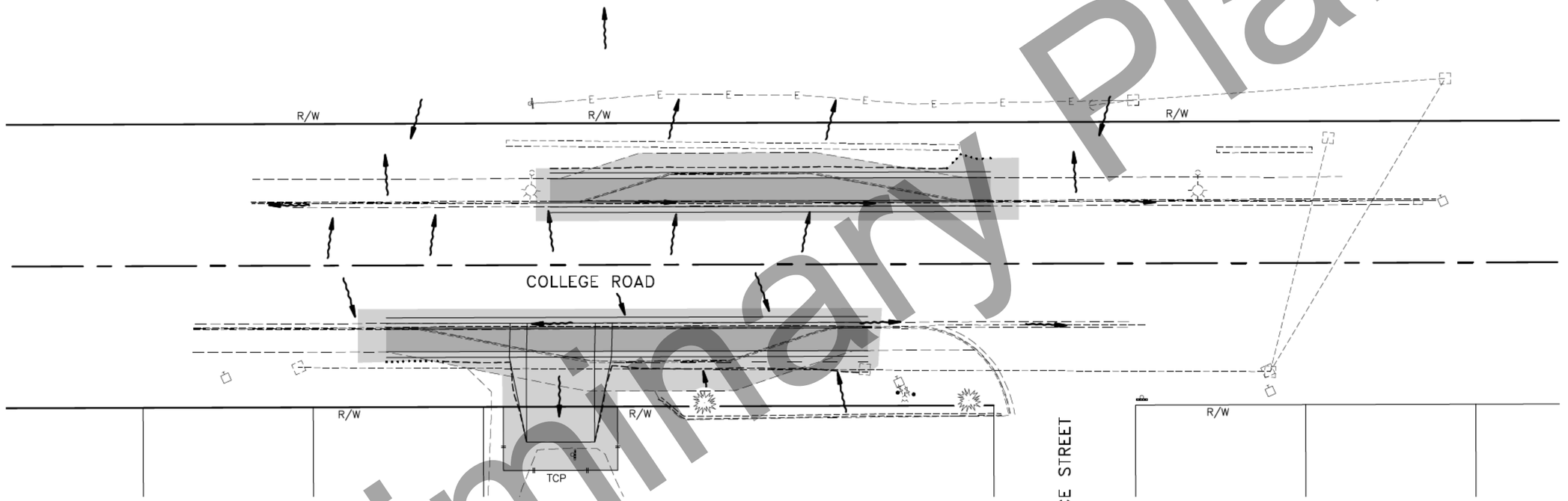
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	Q6	Q6



COLLEGE RD & SPRUCE ST
REMOVAL ESCP PLAN

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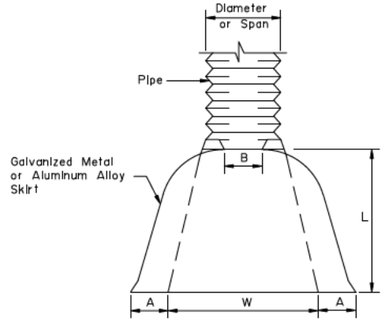
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

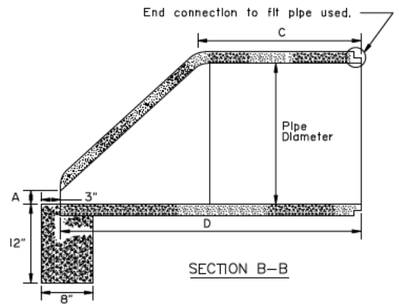
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	V1	V6

D-06.10



PLAN

ROUND AND PIPE ARCH

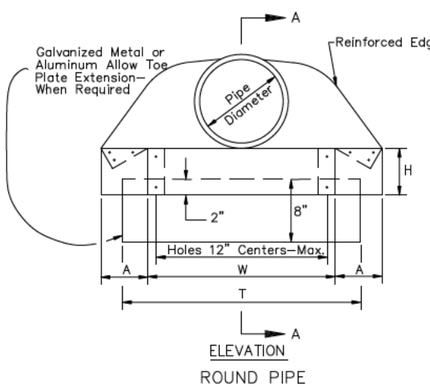


SECTION B–B

MINIMUM DIMENSIONS					
Pipe Diameter	A	B	C	D	E
12"	4"	1 3/4"	24"	46"	24"
18"	9"	2"	25"	50"	36"
24"	9 1/2"	2 1/2"	30"	72"	48"
30"	12"	3"	20"	73"	60"
36"	15"	3 3/8"	35"	97"	72"
42"	21"	3 3/4"	35"	98"	78"
48"	24"	4 1/4"	26"	98"	84"
54"	27"	4 5/8"	33"	99"	82"

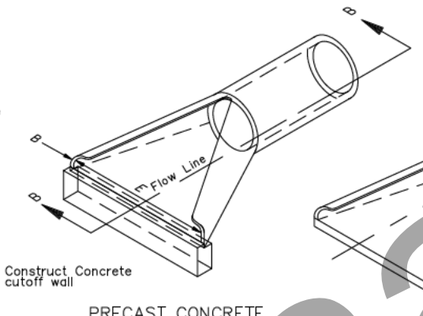
ROUND PIPE										
Pipe Diam. Inches	Thickness For Aluminum	Thk. for Galv. Metal	Dimension Inches A 1" Tol.	B Max.	H 1" Tol.	L 1 1/2" Tol.	W 2" Tol.	T 2" Tol.	Skirt	Approx. Slope
12"	0.060	0.064	6"	6"	6"	21"	24"	34"	1 Pc.	2 1/2
15"	0.060	0.064	7"	8"	6"	26"	30"	40"	1 Pc.	2 1/2
18"	0.060	0.064	8"	10"	6"	31"	36"	46"	1 Pc.	2 1/2
21"	0.060	0.064	9"	12"	6"	36"	42"	52"	1 Pc.	2 1/2
24"	0.075	0.064	10"	13"	6"	41"	48"	58"	1 Pc.	2 1/2
30"	0.075	0.079	12"	16"	8"	51"	60"	70"	1 Pc.	2 1/2
36"	0.105	0.079	14"	19"	9"	60"	72"	94"	2 Pc.	2 1/2
42"	0.105	0.109	16"	22"	11"	69"	84"	106"	2 Pc.	2 1/2
48"	0.105	0.109	18"	27"	12"	78"	90"	112"	2 Pc.	2 1/4
54"	0.105	0.109	18"	30"	12"	84"	102"	122"	2 Pc.	2 1/4
60"	0.135	0.109	18"	33"	12"	87"	114"	134"	3 Pc.	2 1/4
66"	0.135	0.109	18"	36"	12"	87"	120"	142"	3 Pc.	2 1/4
72"	0.135	0.109	18"	39"	12"	87"	126"	146"	3 Pc.	2 1/4
78"	— —	0.109	18"	42"	12"	87"	132"	152"	3 Pc.	1 1/4
84"	— —	0.109	18"	45"	12"	87"	138"	158"	3 Pc.	1 1/6

PIPE–ARCH											
Pipe-Arch Dimension Inches Span	Rise	Thickness for Aluminum	Thk. for Galv. Metal	Dimension Inches A 1" Tol.	B Max.	H 1" Tol.	L 1 1/2" Tol.	W 2" Tol.	T 2" Tol.	Skirt	Approx. Slope
17"	13"	0.060	0.064	7"	9"	6"	19"	30"	40"	1 Pc.	2 1/2
21"	15"	0.060	0.064	7"	10"	6"	23"	36"	46"	1 Pc.	2 1/2
24"	18"	0.060	0.064	8"	12"	6"	28"	42"	52"	1 Pc.	2 1/2
28"	20"	0.075	0.064	9"	14"	6"	32"	48"	58"	1 Pc.	2 1/2
35"	24"	0.075	0.079	10"	16"	6"	39"	60"	70"	1 Pc.	2 1/2
42"	29"	0.105	0.079	12"	18"	8"	46"	75"	85"	1 Pc.	2 1/2
49"	33"	0.105	0.109	13"	21"	9"	53"	85"	103"	2 Pc.	2 1/2
57"	38"	0.105	0.109	18"	26"	12"	63"	90"	114"	2 Pc.	2 1/2
64"	43"	0.105	0.109	18"	30"	12"	70"	102"	130"	2 Pc.	2 1/4
71"	47"	0.135	0.109	18"	33"	12"	77"	114"	144"	3 Pc.	2 1/4
77"	52"	0.135	0.109	18"	36"	12"	84"	120"	158"	3 Pc.	2 1/4
83"	57"	0.135	0.109	18"	39"	12"	90"	126"	170"	3 Pc.	2 1/4

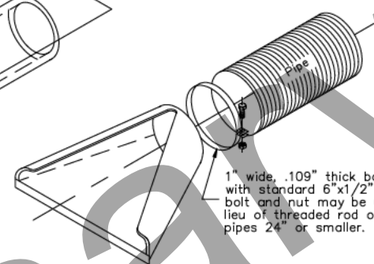


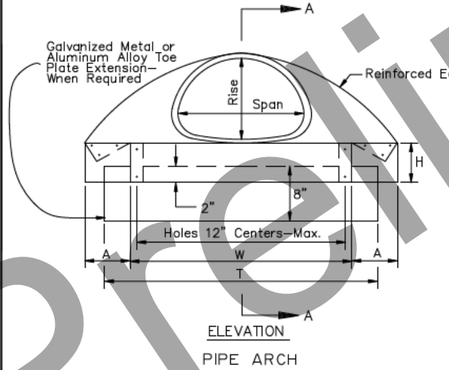
ELEVATION

ROUND PIPE



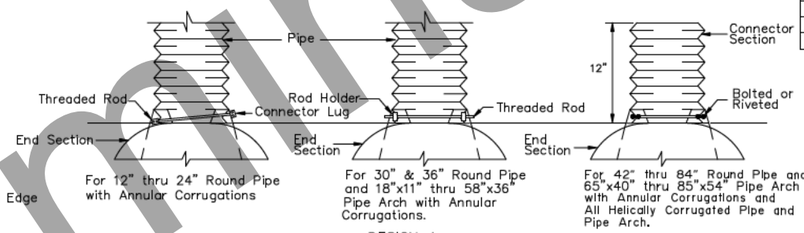
PRECAST CONCRETE END SECTION





ELEVATION

PIPE ARCH

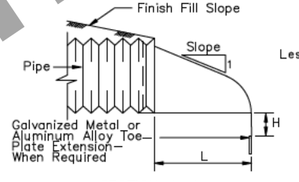


For 12" thru 24" Round Pipe with Annular Corrugations

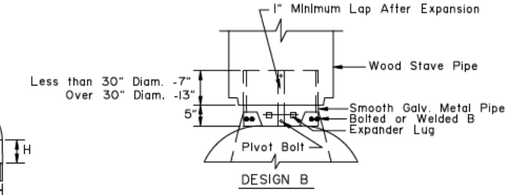
For 30" & 36" Round Pipe and 18"x11" thru 58"x36" Pipe Arch with Annular Corrugations.

For 42" thru 84" Round Pipe and 65"x40" thru 85"x54" Pipe Arch with Annular Corrugations and All Helically Corrugated Pipe and Pipe Arch.

DESIGN A



SECTION A–A



DESIGN B

METAL END SECTION CONNECTED TO WOOD STAVE PIPE

GENERAL NOTES:

1. Toe plate extensions will be required only when provided for on the plans. When required, the toe plate extensions shall be punched with holes to match those in lip of skirt and fastened with 3/8 inch or larger galvanized nuts and bolts and shall be the same gage as the end section.
2. Galvanized Metal or Aluminum Alloy End Sections may be used on Wood Stave and Plastic Pipe.
3. All 3 piece bodies shall have 12 gage sides and 10 gage center panels. Multiple panel bodies shall have lap seams which are to be tightly joined by 3/8" galvanized rivets or bolts.

REVISIONS		
Date	Description	By
3/1/83	Arch Dimensions	WJF/HK
8/10/00	Note 2	DFD

Sheet 1 of 3

State of Alaska
Department of Transportation & Public Facilities

CULVERT END SECTIONS

APPROVED

Date _____

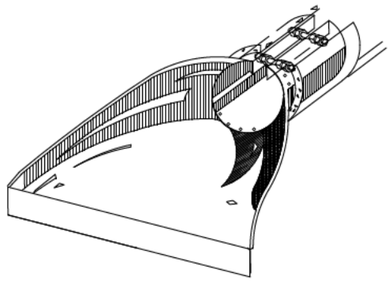
D-06.10

STANDARD DRAWING
D–06.10 (1 OF 3)

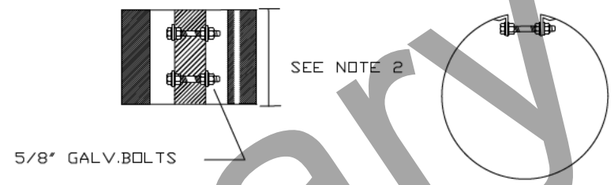
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	V2	V6

D-06.10



FOR CONNECTING CONCRETE PIPE OR CORRUGATED POLYETHYLENE PIPE TO METAL END SECTION.



METAL INSERTS FOR USE WITH CORRUGATED PLASTIC PIPE AND METAL END SECTIONS

GENERAL NOTES

1. See general notes on sheet 1 of 3.
2. See sheet 1 of 3 for metal end section dimensions.
3. Insert bolts, washers and rivets shall be galvanized. Insert thickness is the same as the end section.
4. Use culvert inserts only at inlet.

REVISIONS		
Date	Description	By

Sheet 2 of 3

State of Alaska
Department of Transportation
& Public Facilities

CULVERT END SECTIONS

APPROVED

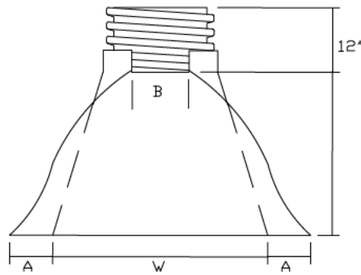
Date _____

D-06.10

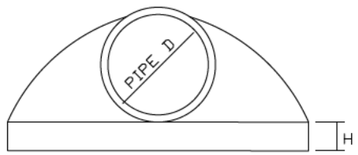
STANDARD DRAWING
D-06.10 (2 OF 3)

NO.	DATE	REVISION

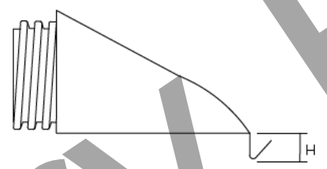
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	V3	V6



TOP VIEW



END VIEW



SIDE VIEW

PIPE DIAMETER	DIMENSIONS IN MILLIMETERS				
	A(1"±)	B MAX	H(1"±)	L(1/2"±)	W(2"±)
12" and 15"	6 1/2"	10"	6 1/2"	25"	29"
18"	7 1/2"	15"	6 1/2"	32"	35"
24"	7 1/2"	18"	6 1/2"	36"	45"
30"	10 1/2"	N/A	7"	53"	68"
36"	10 1/2"	N/A	7"	53"	68"

PLASTIC END SECTION FOR CORRUGATED PLASTIC PIPE

D-06.10

GENERAL NOTES

1. Plastic flared end sections may be used with HDPE corrugated culvert pipes where noted in project plans or approved by project engineer.
2. Consult manufacturer's recommendations for proper sizing and coupling devices. Recommended fasteners may include connecting bands or cinch ties. Fittings across dimension B may include threaded rods with wing nuts or bolts and washers. plastic welds may be recommended.
3. Align coupling to accomodate pipe corrugations.
4. Metal components e.g. bolts or washers must be galvanized.
5. Attachment of end section should preserve culvert alignment and not impair pipe function. Use end sections only on culvert inlet.
6. Toe plate extensions will be required only when designated on the plans.
7. End sections will not be used on HDPE culvert pipes larger than 36" unless indicated by project plans or approved by the Engineer.

REVISIONS		
Date	Description	By

Sheet 3 of 3

State of Alaska
Department of Transportation
& Public Facilities

CULVERT END SECTIONS

APPROVED

Date _____

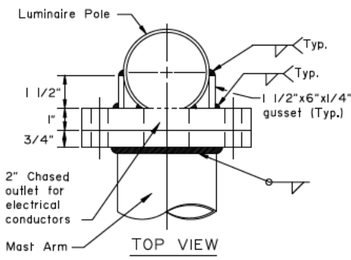
D-06.10

STANDARD DRAWING
D-06.10 (3 OF 3)

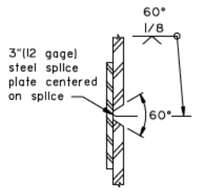
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	V4	V6

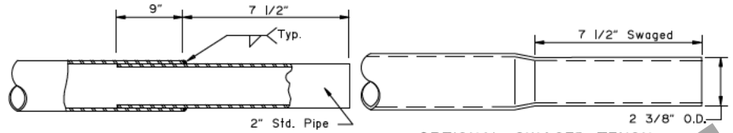
L-03.10



TOP VIEW



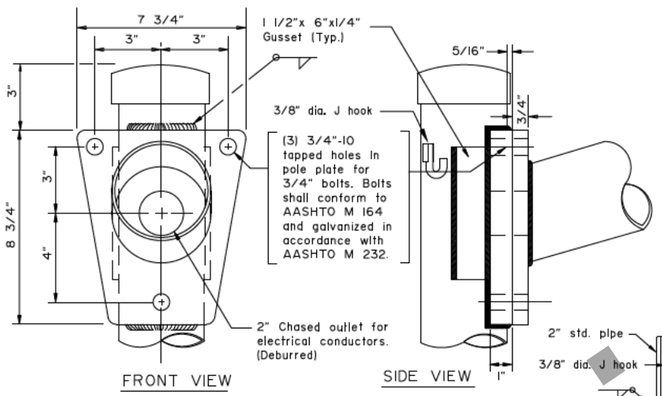
SPLICE DETAILS



TENON

OPTIONAL SWAGED TENON

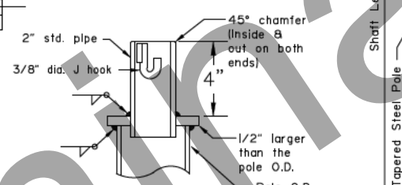
END OF MAST ARM DETAIL



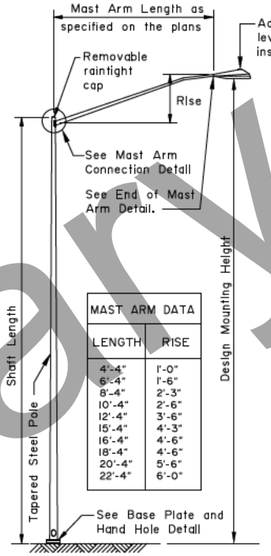
FRONT VIEW

SIDE VIEW

MAST ARM CONNECTION DETAIL

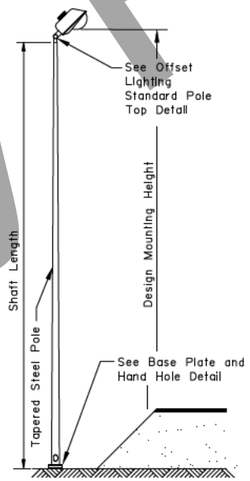


OFFSET LIGHTING STANDARD POLE TOP DETAIL
(CUTAWAY FOR CLARITY)

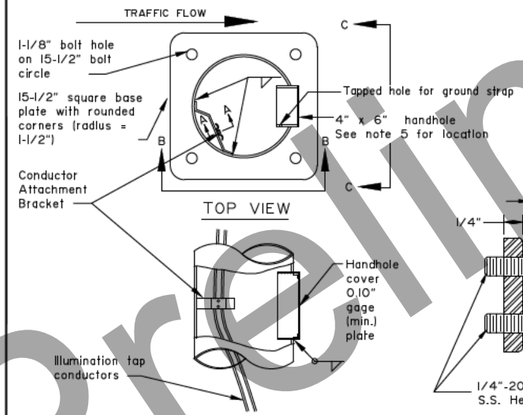


MAST ARM DATA	
LENGTH	RISE
4'-4"	1'-0"
6'-4"	1'-6"
8'-4"	2'-3"
10'-4"	2'-6"
12'-4"	3'-6"
15'-4"	4'-3"
16'-4"	4'-6"
18'-4"	4'-6"
20'-4"	5'-6"
22'-4"	6'-0"

ELECTROLIER ELEVATION
COBRA HEAD

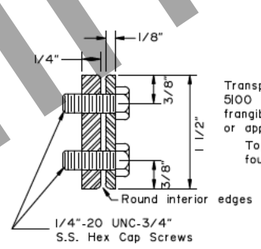


ELECTROLIER ELEVATION
OFFSET

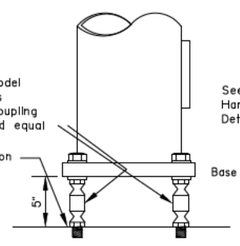


TOP VIEW

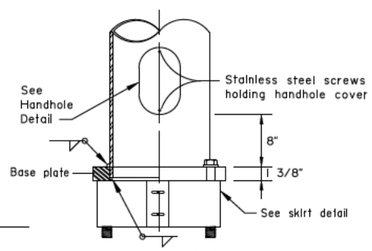
BASE PLATE AND HAND HOLE DETAIL



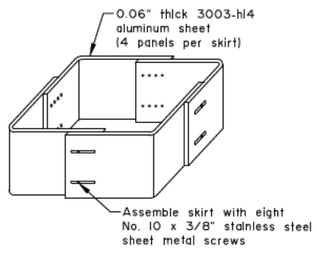
SECTION A-A



VIEW B-B



VIEW C-C



SKIRT DETAIL

GENERAL NOTES

1. Design and fabricate all shafts to support a mast arm 22' long with luminaire. Assume each offset fixture weighs 60 lbs. and has an effective projected area of 2.8 SF. Assume each Cobra head weighs 55 lbs. and has an effective projected area of 1.2 square feet. With this dead load, limit the angular rotation of the pole top to 1° 40' maximum.
2. Weld size to be determined by manufacturer.
3. Mounting height, if specified in the plans, refers to the height of luminaire above the roadway. Adjust each pole's shaft length to maintain this difference in elevation whenever slope and/or offset varies.
4. Minimum outside diameter at the top of pole equals 3-7/8". Pole diameter shall taper uniformly from the top of pole to the base plate, with a maximum taper rate of 0.15" per foot.
5. Mast arm rise may vary ±0.5ft from the values listed in the table.
6. Locate the handhole at 90 degrees to the mast arm on the side of pole downstream from traffic flow.
7. Furnish all poles with a j-hook to support the illumination tap conductors. Furnish all mast arm poles with a removable raintight cap.
8. Frangible couplings shall be NCHRP 350, Test Level 3 compliant and have no measured torque requirement.
9. Frangible couplings shall be installed into flush mounted female anchors so that no fixed hardware extends above the foundation top.
10. Install all components of the breakaway support system in accordance with the manufacturer's written instructions.
11. Fabricate the skirt from four pieces of 0.06" thick 3003 h-14 aluminum sheet. Bend each plate to provide corners with a 3/4" radius. Assemble the skirt with #10 x 3/8" self tapping stainless screws or pop rivets. The assembled skirt measures about 12-7/8" square.

REVISIONS		
Date	Description	By

Sheet 1 of 1

State of Alaska
Department of Transportation & Public Facilities

LIGHTING STANDARD

APPROVED

Date 2/28/03

L-03.10

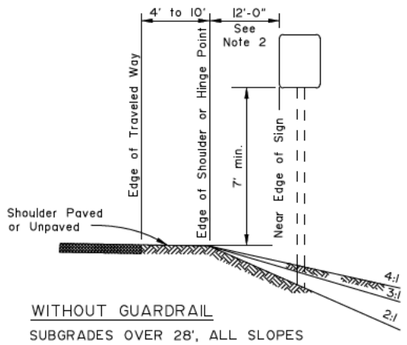
STANDARD DRAWING
L-03.10

P:\2018\18060FB-DOT_CollegeRd\C\c90001cast180060FB-V4 Fri, Mar/06/20 11:21am
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC. CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743-3200

NO.	DATE	REVISION

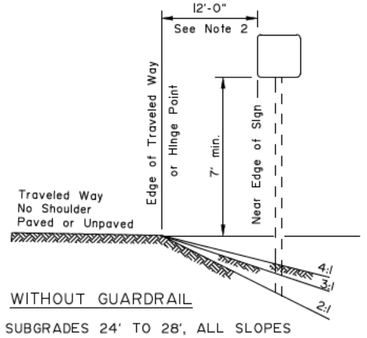
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	V5	V6

S-05.01



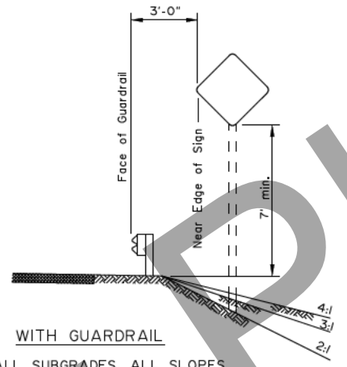
WITHOUT GUARDRAIL

SUBGRADES OVER 28', ALL SLOPES



WITHOUT GUARDRAIL

SUBGRADES 24' TO 28', ALL SLOPES

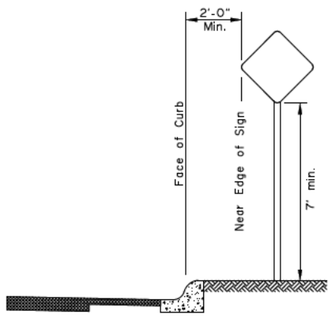


WITH GUARDRAIL

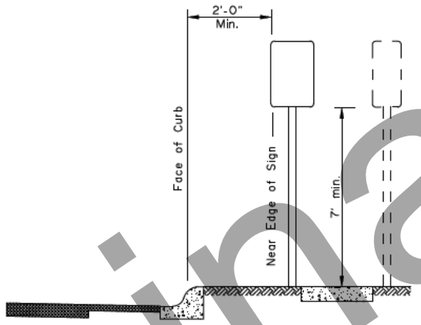
ALL SUBGRADES, ALL SLOPES

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.

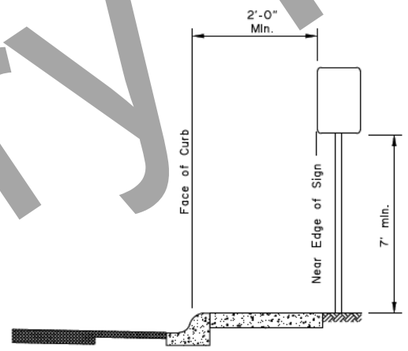


CURB WITHOUT SIDEWALK

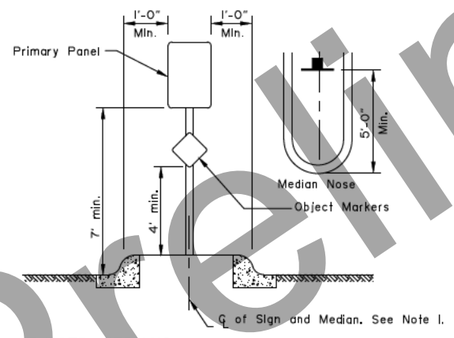


CURB WITH PARKWAY AND SIDEWALK

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

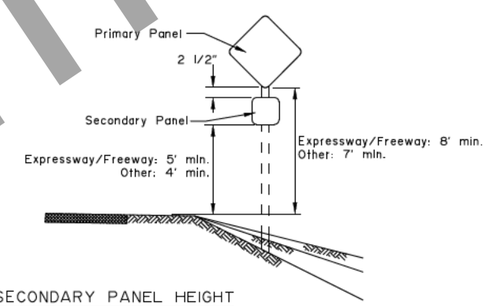


CURB WITH SIDEWALK WITHOUT PARKWAY



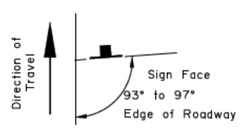
RAISED MEDIANS

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 _____

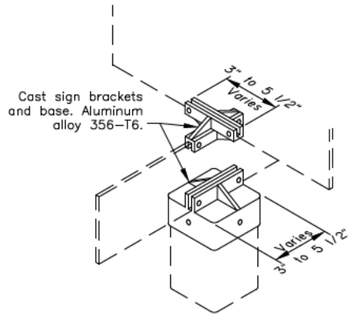
S-05.01

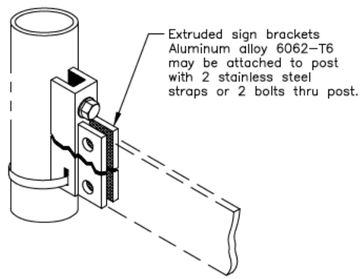
STANDARD
DRAWING S-05.01

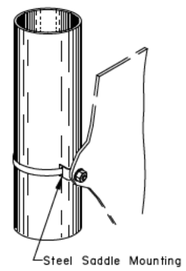
NO.	DATE	REVISION

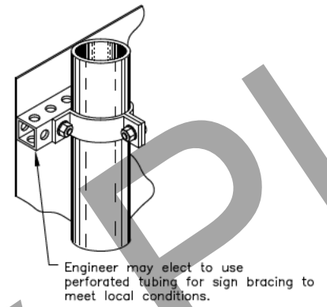
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00290/0640012	2020	V6	V6

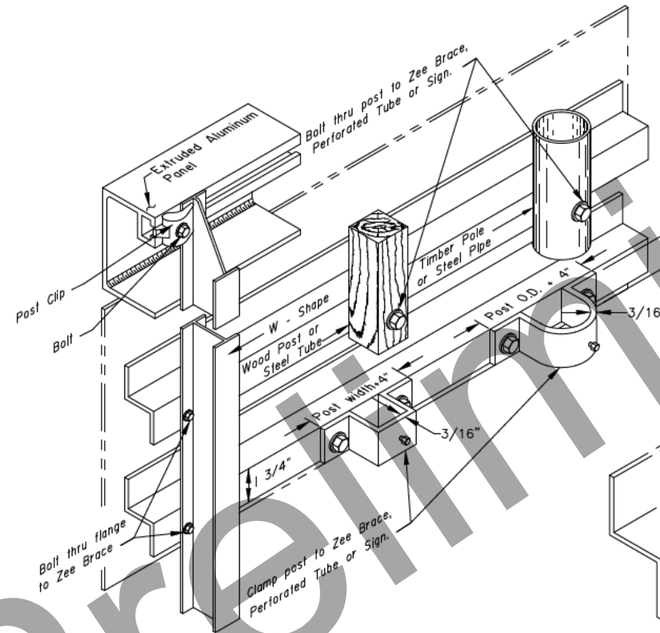
S-20.10

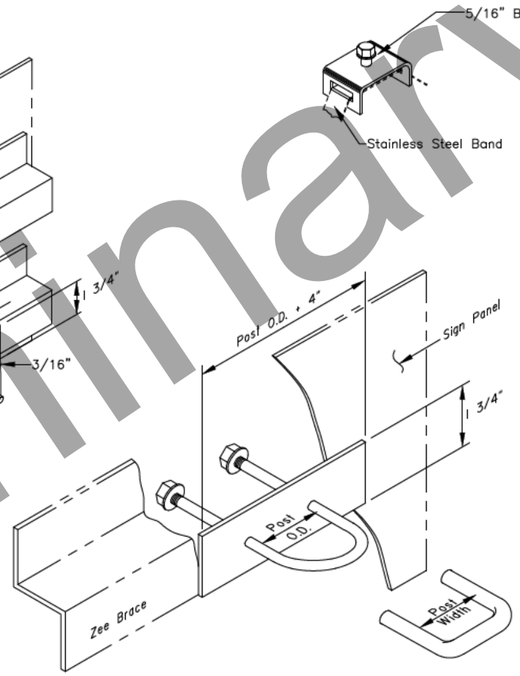


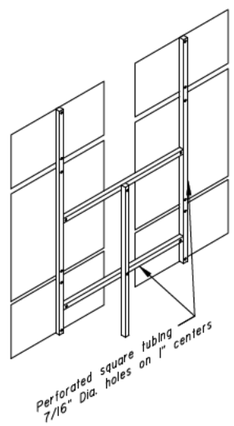












GENERAL NOTES

1. Details shown indicate general design only. Dimensions and design may vary among the manufacturers.
2. Install weather tight caps on all pipe and tube post (except perforated tubing).
3. Protect sign posts installed using driving methods with drive caps during installation.
4. Bolt braces to posts at each point where they cross posts.
5. Install signs with top of post, mounting brackets, etc. with a minimum of 3" below top of sign.
6. Paint all sign mounting fasteners on sign face a color closely matching the sign face.
7. Attach all signs, zees and braces mounted to the posts with 5/16" bolts.
8. Furnish all aluminum nuts, bolts and washers with anodized finish.

FASTENER SPECIFICATION TABLE

FASTENERS		ALUMINUM	STEEL	STAINLESS STEEL
BOLTS	MACHINE CARRIAGE "U"	2024–T4	A–307	A–276
NUTS	REGULAR	6061–T6	A–307	A–276
	LOCK	2017–T4		
WASHERS		2024–T4	A–36	A–276
POST CLIP		356–T6		

REVISIONS		
Date	Description	By

Sheet 1 of 1

State of Alaska
Department of Transportation
& Public Facilities

SIGN TO SIGN POST CONNECTIONS

APPROVED
Date 2/28/03

S-20.10

STANDARD
DRAWING S–20.10

P:\2018\18060FB–DOT_CollegeRd\C\c90001cast180060FB–V6 Fri, Mar/06/20 11:21am
PLANS DEVELOPED BY: PDC INC ENGINEERS, LLC, CERT. OF AUTHORIZATION NO.: AECC605, 2700 GAMBELL STREET, SUITE 500, ANCHORAGE, AK 99503, (907)743–3200