

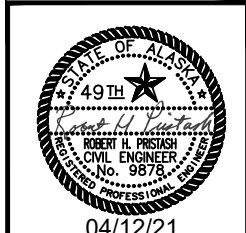
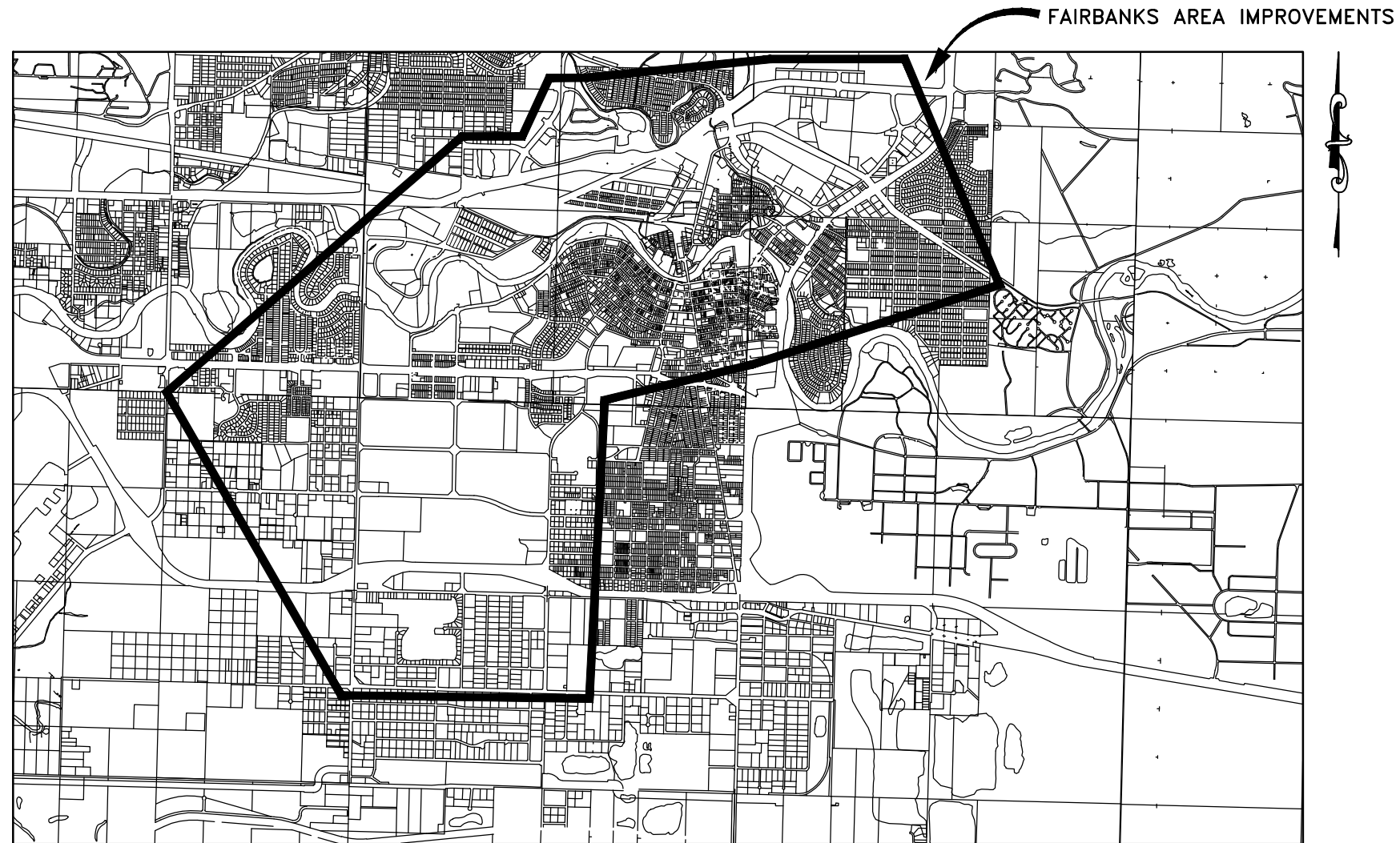
CITY OF FAIRBANKS
ENGINEERING DEPARTMENT

PROPOSED HIGHWAY PROJECT

ITB-21-07

TRANSVERSE PAVEMENT MARKINGS

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1.01	TITLE SHEET
2.01	ESTIMATE OF QUANTITIES
3.01	INDEX SHEET
3.02-3.10	BASE BID - PROJECT LAYOUTS & STRIPING SUMMARY
3.11-3.12	ALTERNATE 1 - PROJECT LAYOUTS & STRIPING SUMMARY
3.13-3.14	ALTERNATE 2 - PROJECT LAYOUTS & STRIPING SUMMARY
3.15-3.17	ALTERNATE 3 - PROJECT LAYOUTS & STRIPING SUMMARY
3.18-3.19	ALTERNATE 4 - PROJECT LAYOUTS & STRIPING SUMMARY
4.01-4.04	STANDARD DRAWINGS



04/12/21

DATE	REVISION	BY

SCALE: NONE

DESIGNED: KLL
DRAWN: KLL
CHECKED: JFW, TMZ
DATE:

APPROVED

CITY ENGINEER
DATE

Transverse Pavement Markings
TITLE SHEET

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-21-07

1.01
OF 25
SHEETS

ESTIMATE OF QUANTITIES - BASE BID			
ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
670(1-A)	PAINTED TRAFFIC MARKINGS - ARROW	EACH	153
670(1-B)	PAINTED TRAFFIC MARKINGS - 18 INCH DIAGONAL ISLAND STRIPING - YELLOW	SQUARE FOOT	2325
670(1-C)	PAINTED TRAFFIC MARKINGS - 18 INCH DIAGONAL ISLAND STRIPING - WHITE	SQUARE FOOT	342
670(1-D)	PAINTED TRAFFIC MARKINGS - SPEED HUMP	EACH	116
670(1-E)	PAINTED TRAFFIC MARKINGS - 24 INCH STANDARD CROSSWALK	SQUARE FOOT	6180
670(1-F)	PAINTED TRAFFIC MARKINGS - 24 INCH STOP BAR	SQUARE FOOT	932

ESTIMATE OF QUANTITIES - ALTERNATE 1			
ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
643(2)_A1	TRAFFIC MAINTENANCE - ADDITIONAL	LUMP SUM	ALL REQUIRED
670(1-A)_A1	PAINTED TRAFFIC MARKINGS - ARROW	EACH	10
670(1-B)_A1	PAINTED TRAFFIC MARKINGS - 18 INCH DIAGONAL ISLAND STRIPING - YELLOW	SQUARE FOOT	450
670(1-E)_A1	PAINTED TRAFFIC MARKINGS - 24 INCH STANDARD CROSSWALK	SQUARE FOOT	720
670(1-F)_A1	PAINTED TRAFFIC MARKINGS - 24 INCH STOP BAR	SQUARE FOOT	312

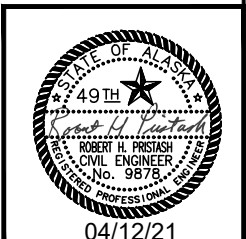
ESTIMATE OF QUANTITIES - ALTERNATE 2			
ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
643(2)_A2	TRAFFIC MAINTENANCE - ADDITIONAL	LUMP SUM	ALL REQUIRED
670(1-B)_A2	PAINTED TRAFFIC MARKINGS - 18 INCH DIAGONAL ISLAND STRIPING - YELLOW	SQUARE FOOT	316.5
670(1-F)_A2	PAINTED TRAFFIC MARKINGS - 24 INCH STOP BAR	SQUARE FOOT	688

ESTIMATE OF QUANTITIES - ALTERNATE 3			
ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
643(2)_A3	TRAFFIC MAINTENANCE - ADDITIONAL	LUMP SUM	ALL REQUIRED
670(1-A)_A3	PAINTED TRAFFIC MARKINGS - ARROW	EACH	73
670(1-E)_A3	PAINTED TRAFFIC MARKINGS - 24 INCH STANDARD CROSSWALK	SQUARE FOOT	1786

ESTIMATE OF QUANTITIES - ALTERNATE 4			
ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
643(2)_A4	TRAFFIC MAINTENANCE - ADDITIONAL	LUMP SUM	ALL REQUIRED
670(1-G)_A4	PAINTED TRAFFIC MARKINGS - 4 INCH SINGLE STRIPE WHITE	LINEAR FOOT	561
670(1-H)_A4	PAINTED TRAFFIC MARKINGS - ACCESSIBILITY PARKING SPACE	EACH	12
670(1-J)_A4	PAINTED TRAFFIC MARKINGS - FIRE HYDRANT CURB PAINT - RED	EACH	29

ESTIMATE OF QUANTITIES NOTES

1. BASE BID IS COMPRISED OF:
 - 1.1. BASE BID - AREA 1
 - 1.2. BASE BID - AREA 2



04/12/21

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DRAWN: KLL

CITY ENGINEER

CHECKED: JFW, TMZ

DATE:

DATE

Transverse Pavement Markings

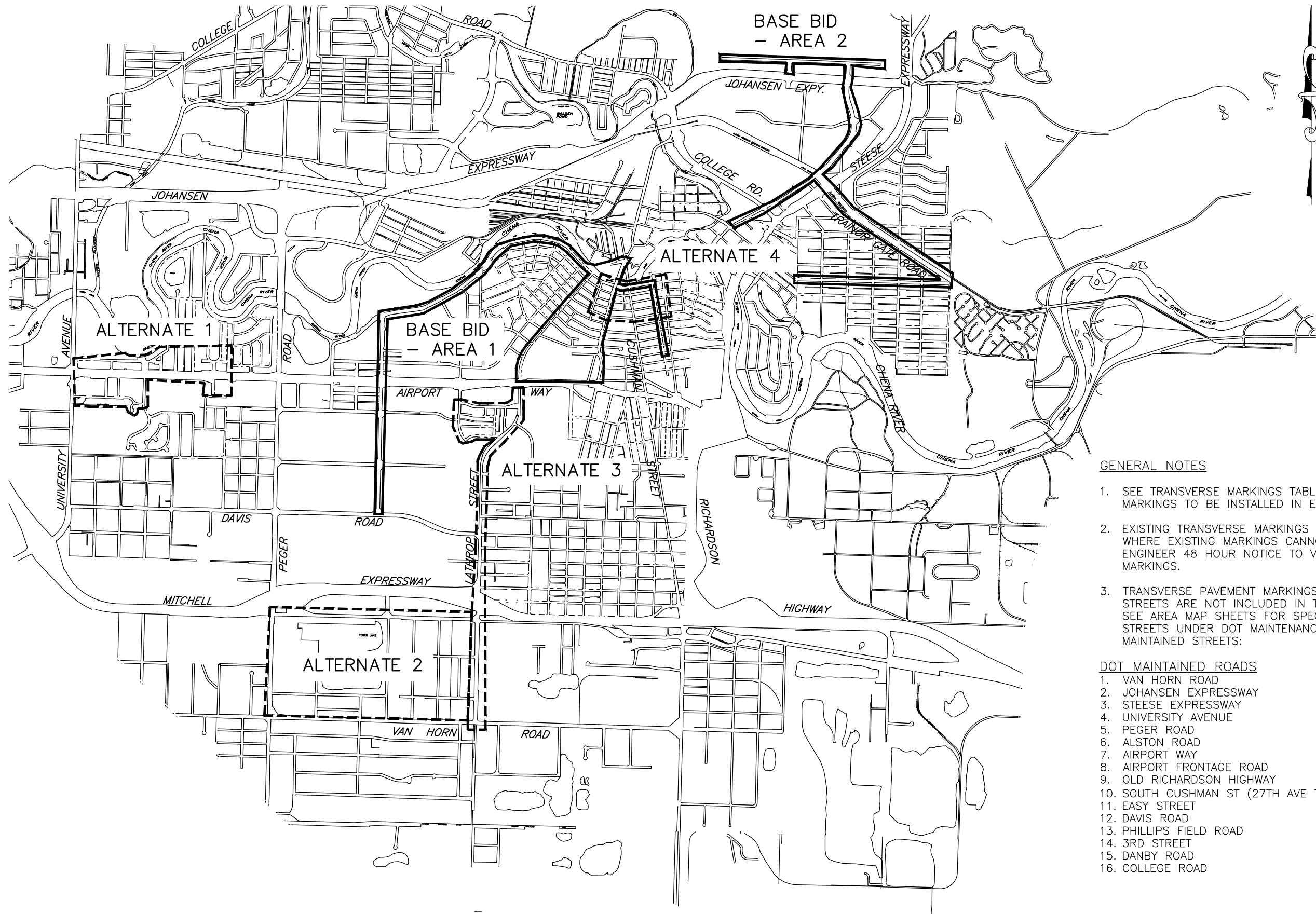
ESTIMATE OF QUANTITIES

CITY OF FAIRBANKS, ALASKA
Engineering Department

Project ITB-21-07

2.01

OF 25
SHEETS

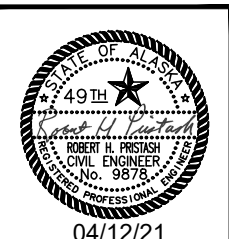


GENERAL NOTES

1. SEE TRANSVERSE MARKINGS TABLE SHEETS FOR LIST OF MARKINGS TO BE INSTALLED IN EACH AREA.
2. EXISTING TRANSVERSE MARKINGS SHALL BE USED FOR LAYOUT. WHERE EXISTING MARKINGS CANNOT BE FOUND, PROVIDE THE ENGINEER 48 HOUR NOTICE TO VERIFY LOCATION OF MARKINGS.
3. TRANSVERSE PAVEMENT MARKINGS ON DOT MAINTAINED STREETS ARE NOT INCLUDED IN THE SCOPE OF THIS PROJECT. SEE AREA MAP SHEETS FOR SPECIFIC INTERSECTION AND STREETS UNDER DOT MAINTENANCE. THE FOLLOWING ARE DOT MAINTAINED STREETS:

DOT MAINTAINED ROADS

1. VAN HORN ROAD
2. JOHANSEN EXPRESSWAY
3. STEESE EXPRESSWAY
4. UNIVERSITY AVENUE
5. PEGER ROAD
6. ALSTON ROAD
7. AIRPORT WAY
8. AIRPORT FRONTAGE ROAD
9. OLD RICHARDSON HIGHWAY
10. SOUTH CUSHMAN ST (27TH AVE TO VAN HORN RD)
11. EASY STREET
12. DAVIS ROAD
13. PHILLIPS FIELD ROAD
14. 3RD STREET
15. DANBY ROAD
16. COLLEGE ROAD



04/12/21

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 CITY ENGINEER
 DATE _____

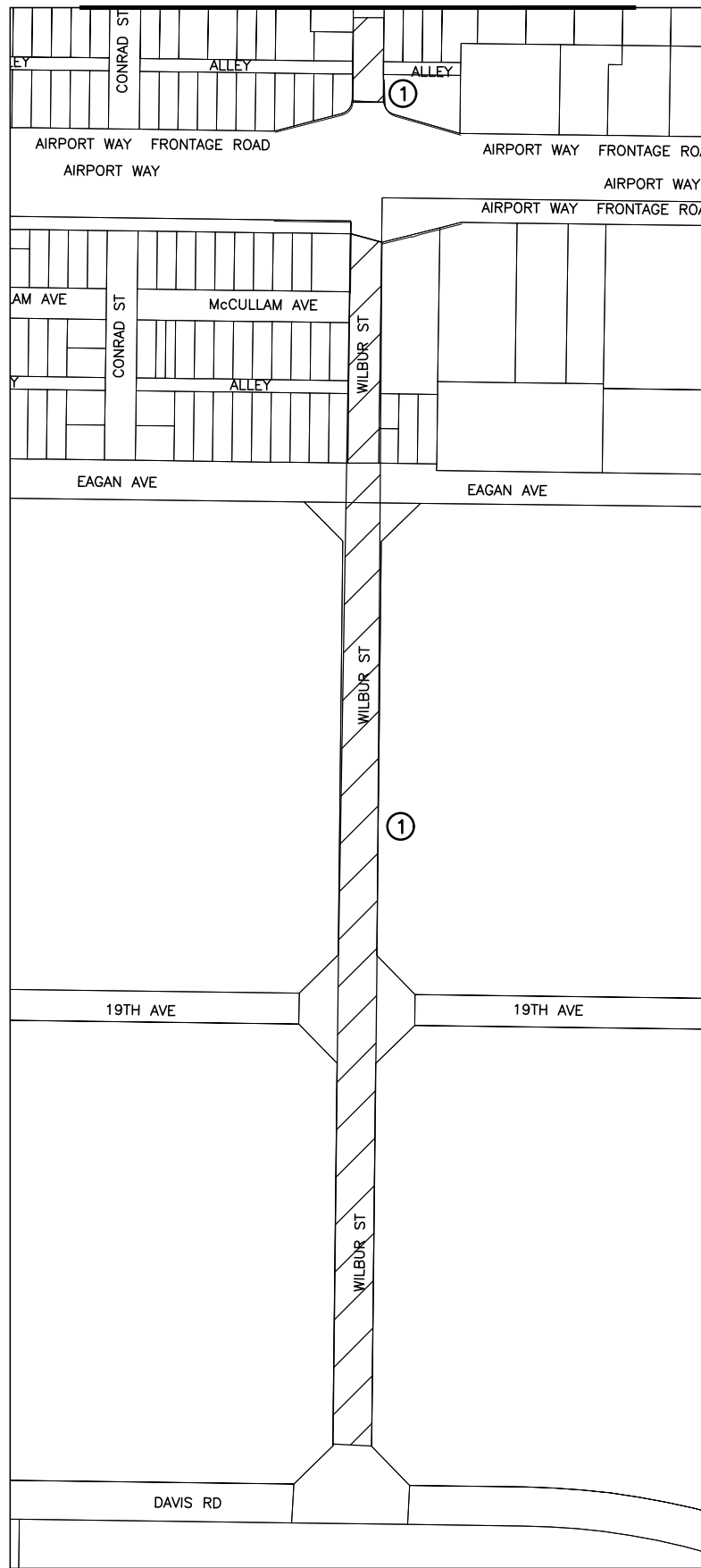
Transverse Pavement Markings
INDEX SHEET / GENERAL NOTES

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-21-07

3.01
 OF 25 SHEETS

MATCH WILBUR ST. LINE

MATCH SHEET 3.03 LINE



MATCH WILBUR ST. LINE

GENERAL NOTES FOR BASE BID - AREA 1

BASE BID - AREA 1

SEE SHEET 3.05 FOR ADDITIONAL PAINTED TRANSVERSE MARKING DETAILS

- 1. DOT MAINTAINS THE FOLLOWING INTERSECTIONS:
 - 1.1. DAVIS ROAD AND WILBUR STREET
 - 1.2. AIRPORT WAY AND WILBUR STREET
- 2. DOT MAINTAINS THE FOLLOWING STREETS:
 - 2.1. AIRPORT WAY / AIRPORT FRONTAGE ROAD
 - 2.2. DAVIS ROAD



DATE	REVISION	BY

SCALE: NONE

DESIGNED: KLL

APPROVED

DRAWN: KLL

CITY ENGINEER

CHECKED: JFW, TMZ

DATE

DATE:

Transverse Pavement Markings

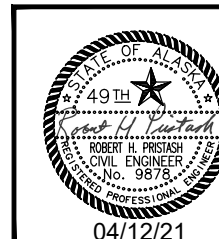
BASE BID - AREA 1

CITY OF FAIRBANKS, ALASKA
Engineering Department

Project ITB-21-07

3.02

OF 25
SHEETS



04/12/21



BASE BID - AREA 1

SEE SHEET 3.05 FOR ADDITIONAL PAINTED TRANSVERSE MARKING DETAILS



MATCH SHEET 3.02 LINE

- GENERAL NOTES FOR BASE BID - AREA 1**
1. DOT MAINTAINS THE FOLLOWING INTERSECTIONS:
 - 1.1. AIRPORT WAY AND COWLES STREET
 2. DOT MAINTAINS THE FOLLOWING STREETS:
 - 2.1. AIRPORT WAY / AIRPORT FRONTAGE ROAD



04/12/21

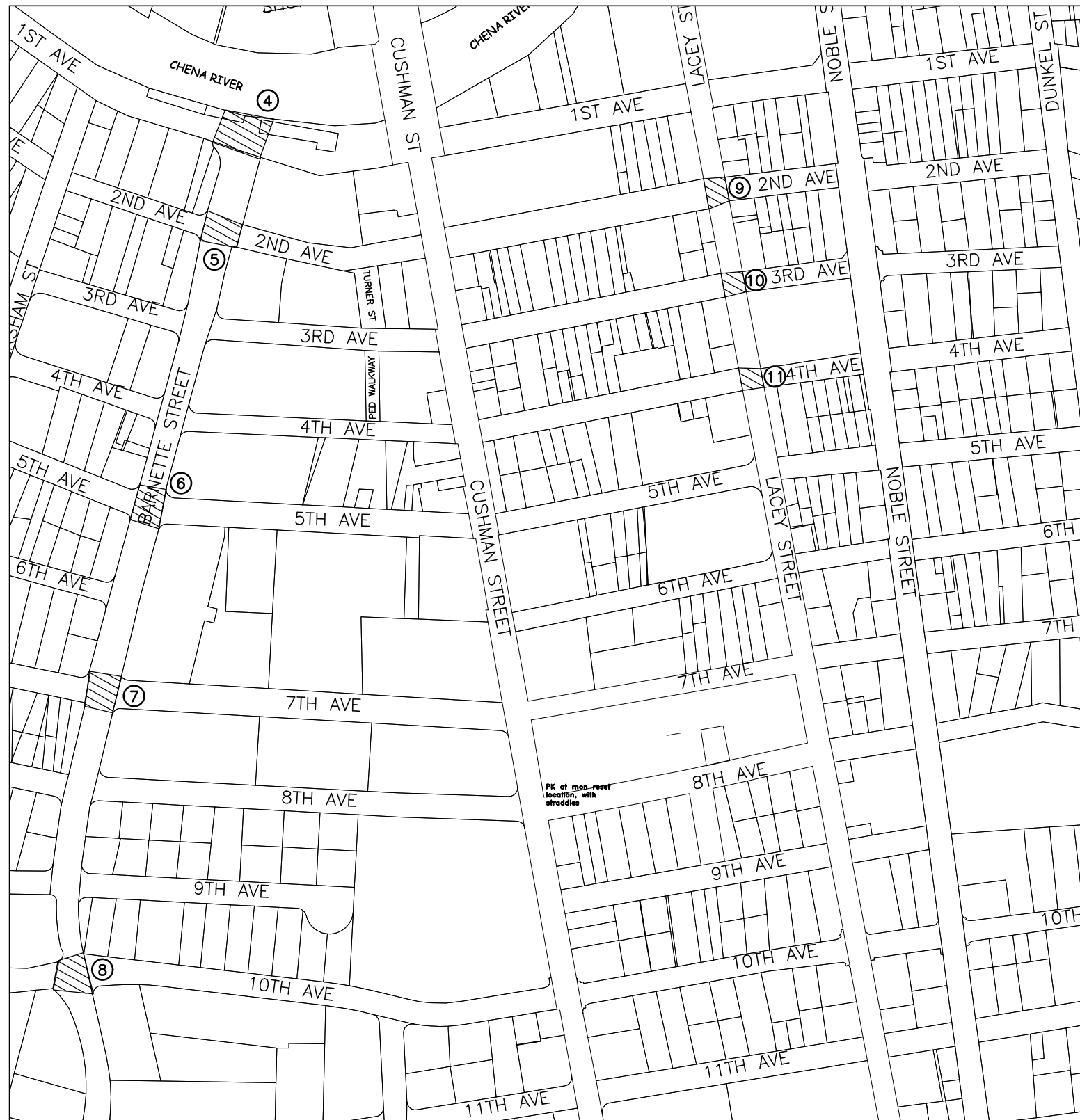
DATE	REVISION	BY

SCALE: NONE

DESIGNED: KLL	APPROVED
DRAWN: KLL	_____
CHECKED: JFW, TMZ	CITY ENGINEER
DATE:	DATE

Transverse Pavement Markings
BASE BID - AREA 1

CITY OF FAIRBANKS, ALASKA
 Engineering Department
 Project ITB-21-07



BASE BID - AREA 1

SEE SHEET 3.05 FOR ADDITIONAL PAINTED TRANSVERSE MARKING DETAILS



04/12/21

DATE	REVISION	BY

SCALE: NONE

DESIGNED: KLL
 DRAWN: KLL
 CHECKED: JFW, TMZ
 DATE: _____

APPROVED

 CITY ENGINEER
 DATE: _____

Transverse Pavement Markings

BASE BID - AREA 1

CITY OF FAIRBANKS, ALASKA
 Engineering Department

Project ITB-21-07

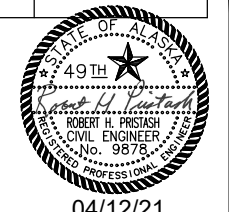
3.04

OF 25
 SHEETS

NO.	PAVEMENT MARKING TYPE	PRIMARY STREET	SECONDARY STREET	CARDINAL DIRECTION	* 24" CROSSWALK (EACH)	* 24" CROSSWALK (LF)	** 24" STANDARD CROSSWALK (SF)	** RIGHT/LEFT ARROWS (EACH)	** STRAIGHT ARROW (EACH)	** COMBINATION ARROW (EACH)	* 18" DIAGONAL ISLAND STRIPING - YELLOW (EACH)	* 18" DIAGONAL ISLAND STRIPING - YELLOW (LF)	** 18" DIAGONAL ISLAND STRIPING - YELLOW (SF)	* 18" DIAGONAL ISLAND STRIPING - WHITE (EACH)	* 18" DIAGONAL ISLAND STRIPING - WHITE (LF)	** 18" DIAGONAL ISLAND STRIPING - WHITE (SF)	* 24" WHITE STOP BAR (EACH)	* 24" WHITE STOP BAR (LF)	** 24" WHITE STOP BAR (SF)	LOCATION GUIDELINES	COMMENTS/CLARIFICATION			
①	Paint	Wilbur Street		-	0	0	0	4	0	0	2	225	337.5	0	0	0	3	48	96	2nd Avenue to Davis Road				
②	Paint	2nd Avenue		-	0	0	0	1	0	0	2	179	268.5	0	0	0	0	0	0	Hilton Avenue to Grant Street				
③	Paint	Cowles Street		-	0	0	0	10	0	0	0	0	0	0	0	0	2	41	82	1st Avenue to Airport Way				
④	Paint	1st Avenue	Barnette Street	North Leg	1	80	160	3	0	0	0	0	0	0	0	0	0	0	0	0				
				South Leg	1	82	164	0	0	0	0	0	0	0	1	140	210	0	0	0	0			
				West Leg	1	78	156	0	0	0	0	0	1	77	115.5	0	0	0	0	0	0	0		
				East Leg	1	94	188	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				Intersection Total	4	334	668	5	0	0	0	1	77	115.5	1	140	210	0	0	0	0	0		
⑤	Paint	2nd Avenue	Barnette Street	North Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
				South Leg	0	0	0	0	0	0	0	0	0	0	1	88	132	0	0	0	0			
				West Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
				East Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				Intersection Total	0	0	0	0	0	0	0	0	0	0	1	88	132	0	0	0	0	0		
⑥	Paint	5th Avenue	Barnette Street	North Leg	1	84	168	0	0	0	0	0	0	0	0	0	0	0	0	0				
	Paint			South Leg	1	84	168	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Inlaid MMA			West Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Paint			East Leg	1	81	162	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0		
	-			Intersection Total	3	249	498	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0		West leg of intersection is inlaid MMA
⑦	Paint	7th Avenue	Barnette Street	North Leg	1	98	196	0	2	2	0	0	0	0	0	0	0	0	0	0				
				South Leg	1	123	246	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
				West Leg	1	69	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
				East Leg	1	95	190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				Intersection Total	4	385	770	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0		
⑧	Paint	10th Avenue	Barnette Street	North Leg	1	101	202	0	2	2	0	0	0	0	0	0	0	0	0	0				
				South Leg	1	101	202	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
				West Leg	1	81	162	1	1	0	0	0	0	0	0	0	0	0	0	0	0			
				East Leg	1	80	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				Intersection Total	4	363	726	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0		
⑨	Paint	2nd Avenue	Lacey Street	North Leg	1	54	108	0	0	0	0	0	0	0	0	0	0	0	0	0				
				South Leg	1	60	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
				West Leg	1	80	160	1	0	0	0	0	0	0	0	0	0	0	0	0	0			
				East Leg	1	66	132	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
				Intersection Total	4	260	520	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
⑩	Paint	3rd Avenue	Lacey Street	North Leg	1	56	112	0	0	0	0	0	0	0	0	0	0	0	0	0				
				South Leg	1	61	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
				West Leg	1	48	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
				East Leg	1	60	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				Intersection Total	4	225	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
⑪	Paint	4th Avenue	Lacey Street	North Leg	1	59	118	0	0	0	0	0	0	0	0	0	0	0	0	0				
				South Leg	1	63	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
				West Leg	1	63	126	1	0	1	0	0	0	0	0	0	0	0	0	0	0			
				East Leg	1	52	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				Intersection Total	4	237	474	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
SUBTOTAL FOR BASE BID - AREA 1					27	2053	4106	23	6	6	5	481	721.5	2	228	342	5	89	178					

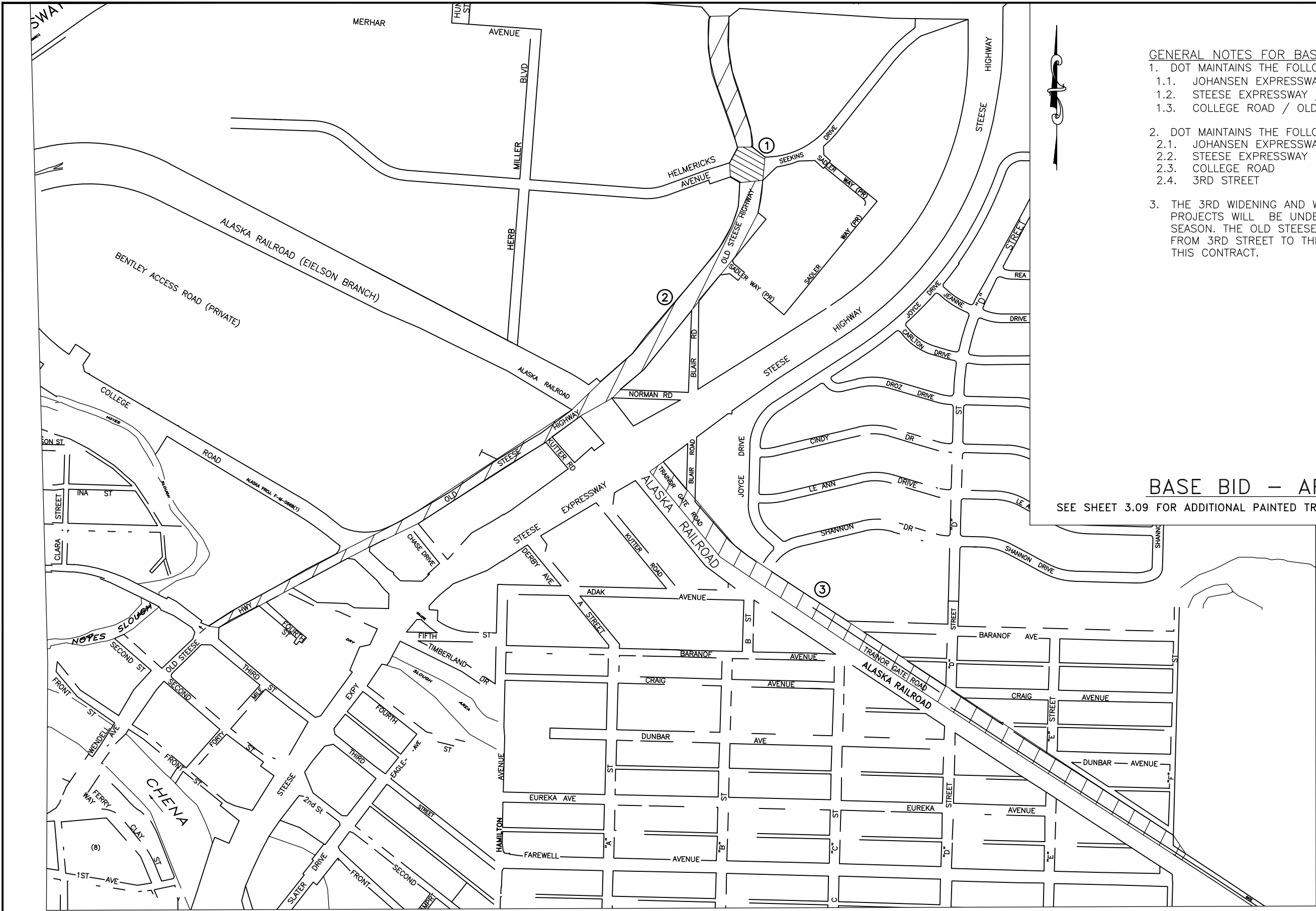
BASE BID - AREA 1

SEE SHEETS 3.02, 3.03 & 3.04 FOR GENERAL STREET LOCATION
 *FOR INFORMATIONAL PURPOSE ONLY
 **ESTIMATE OF QUANTITIES PAY ITEM



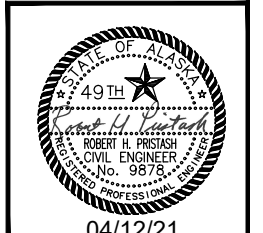
04/12/21

DESIGNED: KLL	APPROVED	Transverse Pavement Markings	CITY OF FAIRBANKS, ALASKA Engineering Department	3.05
DRAWN: KLL	_____			
CHECKED: JFW, TMZ	CITY ENGINEER			
DATE:	DATE	BASE BID - AREA 1	Project ITB-21-07	OF 25 SHEETS
SCALE: NONE				
DATE	REVISION	BY		



- GENERAL NOTES FOR BASE BID – AREA 2**
1. DOT MAINTAINS THE FOLLOWING INTERSECTIONS:
 - 1.1. JOHANSEN EXPRESSWAY / OLD STEESE HIGHWAY
 - 1.2. STEESE EXPRESSWAY / TRAINOR GATE RD
 - 1.3. COLLEGE ROAD / OLD STEESE HIGHWAY
 2. DOT MAINTAINS THE FOLLOWING STREETS:
 - 2.1. JOHANSEN EXPRESSWAY
 - 2.2. STEESE EXPRESSWAY
 - 2.3. COLLEGE ROAD
 - 2.4. 3RD STREET
 3. THE 3RD WIDENING AND WENDELL BRIDGE REPLACEMENT PROJECTS WILL BE UNDER CONSTRUCTION FOR THE 2021 SEASON. THE OLD STEESE HIGHWAY AND INTERSECTIONS FROM 3RD STREET TO THE WENDELL BRIDGE WILL NOT BE IN THIS CONTRACT.

BASE BID – AREA 2
SEE SHEET 3.09 FOR ADDITIONAL PAINTED TRANSVERSE MARKING DETAILS



04/12/21

DATE	REVISION	BY

SCALE: NONE

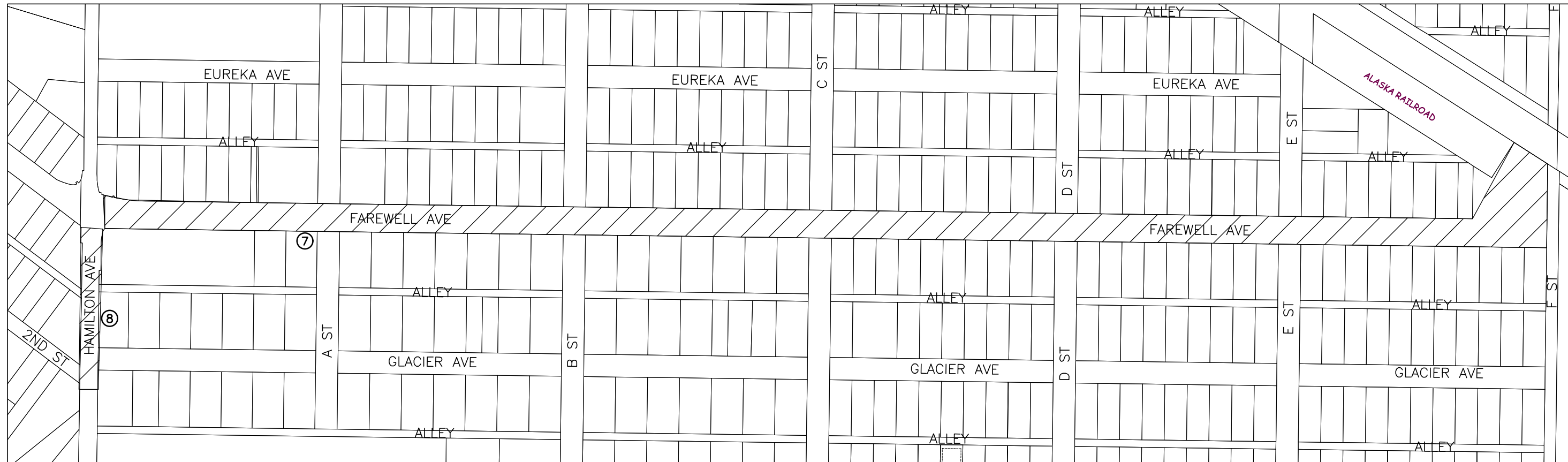
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DATE: _____

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CITY ENGINEER
DATE _____

Transverse Pavement Markings
BASE BID – AREA 2

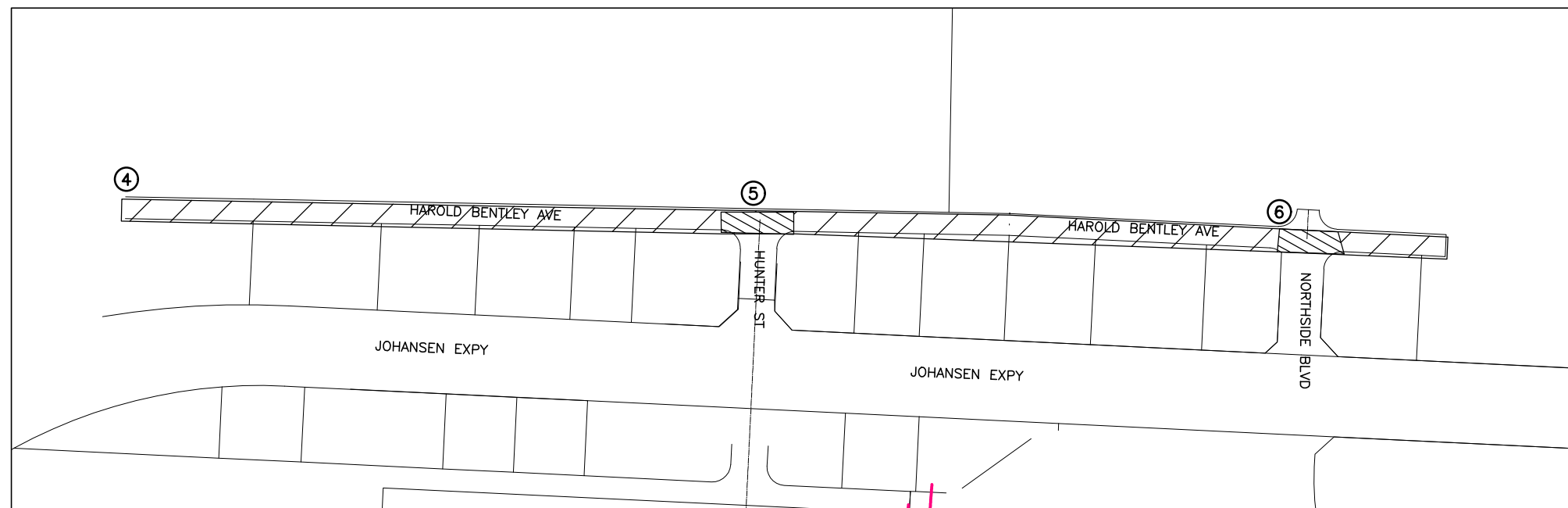
CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-21-07

3.06
OF 25 SHEETS



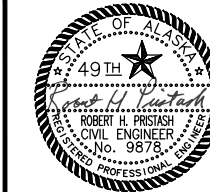
GENERAL NOTES FOR BASE BID – AREA 2

1. DOT MAINTAINS THE FOLLOWING INTERSECTIONS:
 - 1.1. JOHANSEN EXPRESSWAY / HUNTER STREET
 - 1.2. JOHANSEN EXPRESSWAY / NORTHSIDE BLVD
 - 1.3. 3RD STREET / HAMILTON AVENUE
2. DOT MAINTAINS THE FOLLOWING STREETS:
 - 2.1. JOHANSEN EXPRESSWAY
 - 2.2. STEESE EXPRESSWAY
 - 2.3. 3RD STREET
3. THE 3RD WIDENING PROJECT WILL BE UNDER CONSTRUCTION FOR THE 2021 SEASON. THE 3RD STREET / HAMILTON AVENUE INTERSECTION WILL NOT BE IN THIS CONTRACT.



BASE BID – AREA 2

SEE SHEET 3.09 FOR ADDITIONAL PAINTED TRANSVERSE MARKING DETAILS



04/12/21

DATE	REVISION	BY

SCALE: NONE

DESIGNED: KLL
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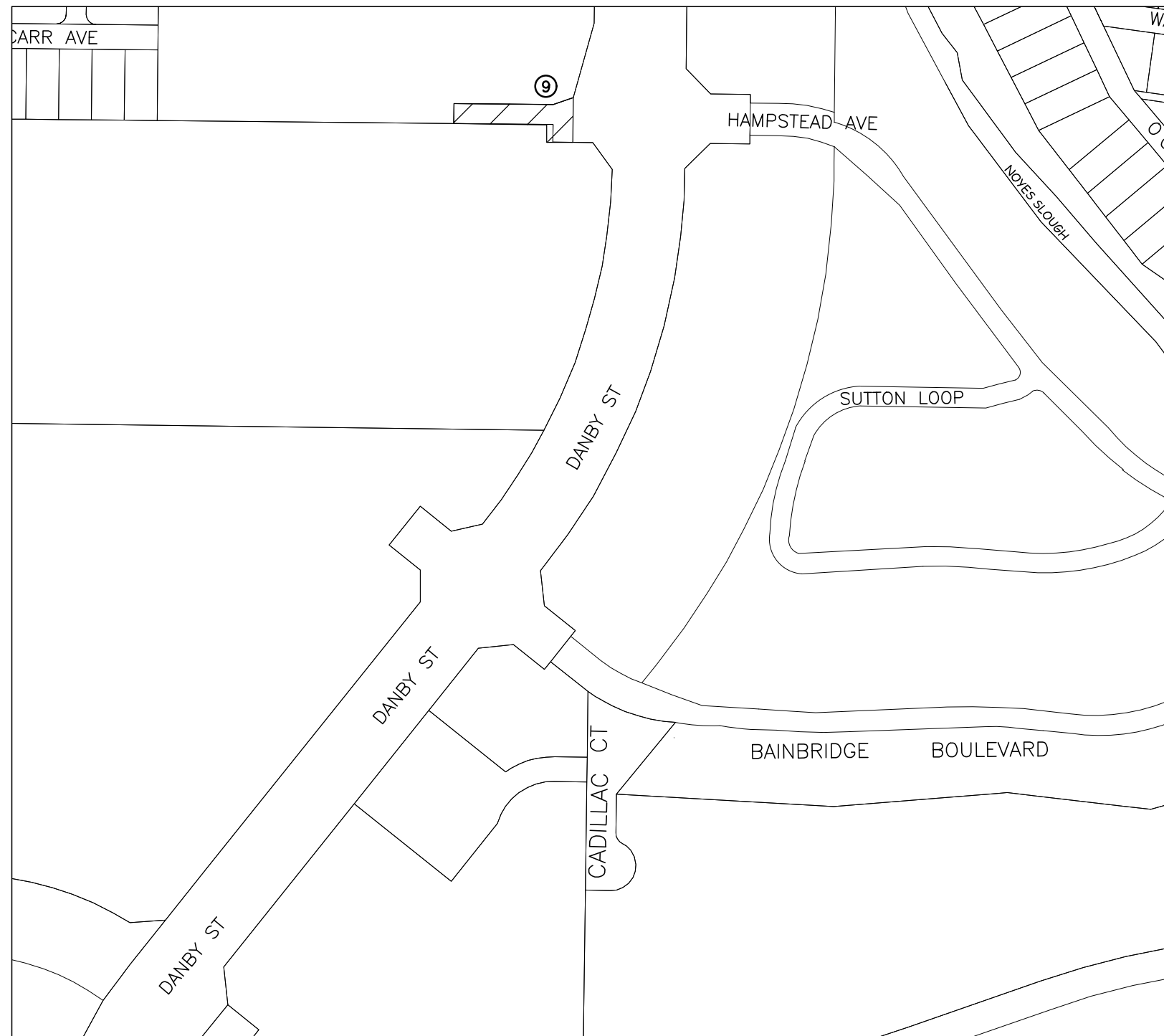
 CITY ENGINEER
 DATE

Transverse Pavement Markings

BASE BID – AREA 2

CITY OF FAIRBANKS, ALASKA
 Engineering Department
 Project ITB-21-07

3.07
 OF 25
 SHEETS

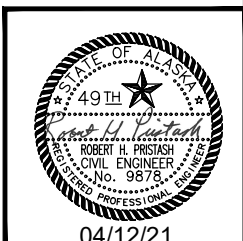


GENERAL NOTES FOR BASE BID - AREA 2

1. DOT MAINTAINS THE FOLLOWING INTERSECTIONS:
 - 1.1. JOHANSEN EXPRESSWAY / DANBY STREET
 - 1.2. DANBY STREET / HAMPSTEAD AVENUE
 - 1.3. DANBY STREET / BAINBRIDGE BLVD
2. DOT MAINTAINS THE FOLLOWING STREETS:
 - 2.1. DANBY STREET
 - 2.2. JOHANSEN EXPRESSWAY

BASE BID - AREA 2

SEE SHEET 3.09 FOR ADDITIONAL PAINTED TRANSVERSE MARKING DETAILS



04/12/21

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 CITY ENGINEER
 DATE: _____

Transverse Pavement Markings
BASE BID - AREA 2

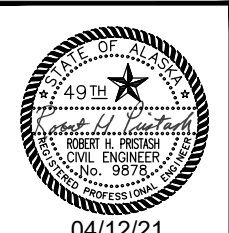
CITY OF FAIRBANKS, ALASKA
 Engineering Department
Project ITB-21-07

3.08
 OF 25
 SHEETS

NO.	PAVEMENT MARKING TYPE	PRIMARY STREET	SECONDARY STREET	CARDINAL DIRECTION	* 24" CROSSWALK (EACH)	* 24" CROSSWALK (LF)	** 24" STANDARD CROSSWALK (SF)	** RIGHT/LEFT ARROWS (EACH)	* 18" DIAGONAL ISLAND STRIPING - YELLOW (EACH)	* 18" DIAGONAL ISLAND STRIPING - YELLOW (LF)	** 18" DIAGONAL ISLAND STRIPING - YELLOW (SF)	* 24" WHITE STOP BAR (EACH)	* 24" WHITE STOP BAR (LF)	** 24" WHITE STOP BAR (SF)	LOCATION GUIDELINES	COMMENTS/ CLARIFICATION
①	Paint	Helmericks Avenue	Old Steese Highway	North Leg	0	0	0	3	0	0	0	1	23	46		
				South Leg	1	177	354	2	0	0	0	0	0			
				West Leg	1	144	288	2	0	0	0	0	0			
				East Leg	1	160	320	2	1	72	108	0	0			
				Intersection Total	3	481	962	9	1	72	108	1	23	46		
②	Paint	Old Steese Highway		-	0	0	0	30	0	0	0	9	201	402	Johansen Expressway to 3rd Street	Wendell Bridge to 3rd Street is under construction
③	Paint	Trainor Gate Road		-	0	0	0	15	4	838	1257	4	129	258	Old Steese Highway to F Street	Intersection of F Street/Trainor Gate is inlaid MMA.
④	Paint	Harold Bentley Avenue		-	0	0	0	14	0	0	0	0	0	0	Entire road (dead end to dead end)	
⑤	Paint	Harold Bentley Avenue	Hunter Street	North Leg	-	-	-	-	-	-	-	-	-	-		
				South Leg	0	0	0	2	1	114	171	0	0	0		
				West Leg	0	0	0	2	0	0	0	0	0	0		
				East Leg	0	0	0	1	0	0	0	1	24	48		
				Intersection Total	0	0	0	5	1	114	171	1	24	48		
⑥	Paint	Harold Bentley Avenue	Northside Blvd.	North Leg	-	-	-	-	-	-	-	-	-	-		
				South Leg	1	162	324	4	0	0	0	0	0	0		
				West Leg	1	112	224	1	0	0	0	0	0	0		
				East Leg	1	115	230	1	0	0	0	0	0	0		
				Intersection Total	3	389	778	6	0	0	0	0	0	0		
⑦	Paint	Farewell Avenue		-	0	0	0	39	0	0	0	0	0	0	Trainor Gate Road to Hamilton Avnue	
⑧	Paint	Hamilton Avenue		-	0	0	0	0	1	45	67.5	0	0	0	2nd Street to Farewell Avenue	
⑨	Paint	Hampstead Avenue		-	2	167	334	0	0	0	0	0	0	0	Anne Wien Elem School	Danby St is DOT maintained. Do not paint ladder crosswalk that crosses Danby St
SUBTOTAL FOR BASE BID - AREA 2					8	1037	2074	118	7	1069	1603.5	15	377	754		

BASE BID - AREA 2

SEE SHEETS 3.06, 3.07 & 3.08 FOR GENERAL STREET LOCATION
 *FOR INFORMATIONAL PURPOSE ONLY
 **ESTIMATE OF QUANTITIES PAY ITEM



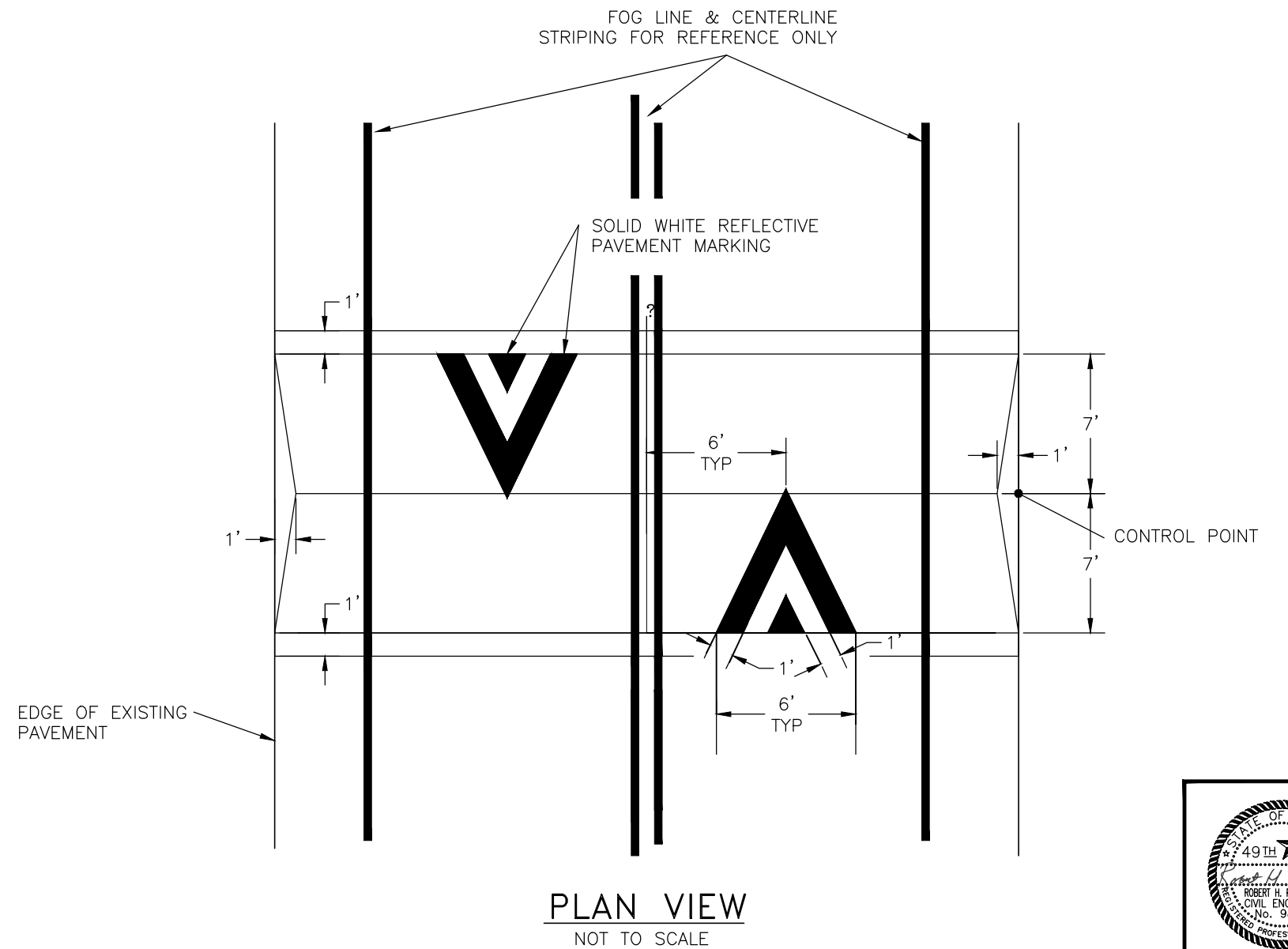
04/12/21

DESIGNED: KLL		APPROVED		Transverse Pavement Markings	CITY OF FAIRBANKS, ALASKA Engineering Department	3.09
DRAWN: KLL		_____				
CHECKED: JFW, TMZ		CITY ENGINEER				
DATE	REVISION	BY	DATE	BASE BID - AREA 2	Project ITB-21-07	OF 25 SHEETS

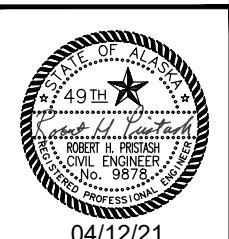
Pavement Marking Type	Subdivision	Road	# of Speed Humps
Paint	Hamilton Acres	Hamilton Ave	2
	Hamilton Acres	Baranof Ave	3
	Hamilton Acres	Craig Ave	2
	Hamilton Acres	Dunbar Ave	2
	Hamilton Acres	Eureka Ave	5
	Hamilton Acres	Farewell Ave	1
	Hamilton Acres	Glacier Ave	6
	Hamilton Acres	Haines Ave	4
	Hamilton Acres	Ketchikan Ave	1
	Hamilton Acres	B Street	3
	Hamilton Acres	C Street	6
	Hamilton Acres	D Street	6
	Hamilton Acres	E Street	3
	Hamilton Acres	F Street	5
Hamilton Acres Total			49
Paint	Shannon Park	Joyce Dr	6
	Shannon Park	Carlton Dr	1
	Shannon Park	Droz Dr	2
	Shannon Park	Cindy Dr	2
	Shannon Park	Le-Ann Dr	3
	Shannon Park	Shannon Dr	7
	Shannon Park	Craig Ave (North)	1
	Shannon Park	D Street (North)	8
	Shannon Park	E Street (North)	2
	Shannon Park	F Street (North)	2
Shannon Park Total			34
Paint	Island Homes	Eagle Ave	0
	Island Homes	Slater Dr	11
	Island Homes	Bentley Dr	5
	Island Homes	Hamilton Ave	0
	Island Homes	Kody Dr	2
Island Homes Total			18

BASE BID – SPEED HUMPS

Paint	Graehl	40-mile Ave	2
	Graehl	2nd Street	1
Graehl Total			3
Paint	Arctic Park	Lathrop St	2
	Arctic Park	Kennicott Ave	3
	Arctic Park	McCarty Ave	2
Arctic Park Total			7
Paint	Bjerremark	A-64	1
	Bjerremark	A-64	1
	Bjerremark	17th Avenue	3
Bjerremark Total			5
Total			116



PLAN VIEW
NOT TO SCALE



04/12/21

DATE	REVISION	BY

SCALE: NONE

DESIGNED: KLL
DRAWN: KLL
CHECKED: JFW, TMZ
DATE:

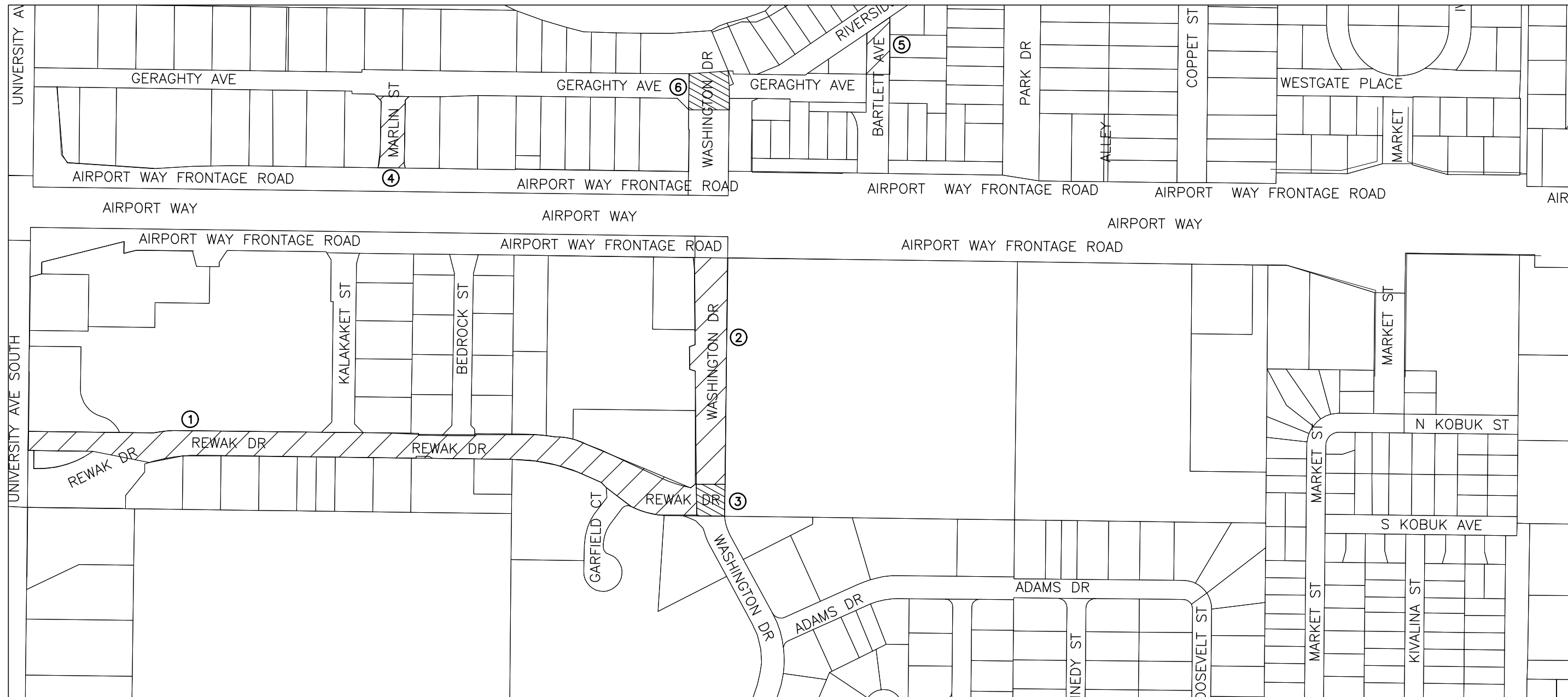
APPROVED

CITY ENGINEER
DATE

Transverse Pavement Markings
BASE BID – SPEED HUMPS

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-21-07

3.10
OF 25
SHEETS

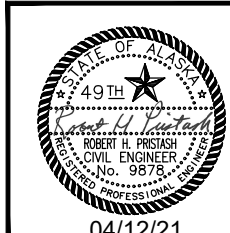


ALTERNATE 1 - AREA

SEE SHEET 3.12 FOR ADDITIONAL PAINTED TRANSVERSE MARKING DETAILS

GENERAL NOTES FOR ALTERNATE 1 - AREA

1. DOT MAINTAINS THE FOLLOWING INTERSECTIONS:
 - 1.1. UNIVERSITY AVENUE AND REWAK DRIVE
 - 1.2. AIRPORT WAY AND WASHINGTON DRIVE
2. DOT MAINTAINS THE FOLLOWING STREETS:
 - 2.1. AIRPORT WAY FRONTAGE ROAD



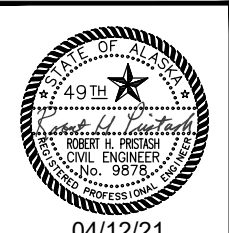
04/12/21

			DESIGNED: KLL	APPROVED	Transverse Pavement Markings	ALTERNATE 1 - AREA	CITY OF FAIRBANKS, ALASKA Engineering Department Project ITB-21-07	
			DRAWN: KLL	_____				3.11
			CHECKED: JFW, TMZ	CITY ENGINEER				OF 25
DATE	REVISION	BY	SCALE: NONE	DATE			SHEETS	

NO.	PAVEMENT MARKING TYPE	PRIMARY STREET	SECONDARY STREET	CARDINAL DIRECTION	* 24" CROSSWALKS (EACH)	* 24" CROSSWALKS (LF)	** 24" STANDARD CROSSWALKS (SF)	** RIGHT/LEFT ARROWS (EACH)	* 18" DIAGONAL ISLAND STRIPING - YELLOW (EACH)	* 18" DIAGONAL ISLAND STRIPING - YELLOW (LF)	** 18" DIAGONAL ISLAND STRIPING - YELLOW (SF)	* 24" WHITE STOP BAR (EACH)	* 24" WHITE STOP BAR (LF)	** 24" WHITE STOP BAR (SF)	LOCATION GUIDELINES	COMMENTS/CLARIFICATIONS
①	Paint	Rewak Drive		-	2	161	322	0	2	300	450	2	24	48	University Avenue to Washington Drive	Includes Monroe Ct. & Safeway entrances
②	Paint	Washington Drive		-	0	0	0	2	0	0	0	1	27	54	Airport Road to Adams Drive	Includes entrance to Washington Plaza
③	Paint	Rewak Drive	Washington Drive	North Leg	0	0	0	3	0	0	0	1	38	76		East leg of intersection no longer maintained
				South Leg	1	90	180	0	0	0	0	0	0			
				West Leg	1	109	218	2	0	0	0	0	0			
				East Leg	-	-	-	-	-	-	-	-	-			
				Intersection Total	2	199	398	5	0	0	0	1	38	76		
④	Paint	Marlin Street		-	0	0	0	0	0	0	1	17	34	Airport Way to Geraghty Avenue	Stop bar is at intersection of Marlin Street and Geraghty Avenue	
⑤	Paint	Bartlett Drive		-	0	0	0	0	0	0	1	12	24	Geraghty Avenue to Riverside Drive	Stop bar is at intersection of Bartlett Ave and Geraghty Avenue	
⑥	Paint	Geraghty Avenue	Washington Drive	North Leg	-	-	-	-	-	-	-	-	-	-		
				South Leg	0	0	0	3	0	0	0	0	0			
				West Leg	0	0	0	0	0	0	0	1	18	36		
				East Leg	0	0	0	0	0	0	0	1	20	40		
				Intersection Total	0	0	0	3	0	0	0	2	38	76		
SUBTOTAL FOR ALTERNATE 1 - AREA					4	360	720	10	2	300	450	8	156	312		

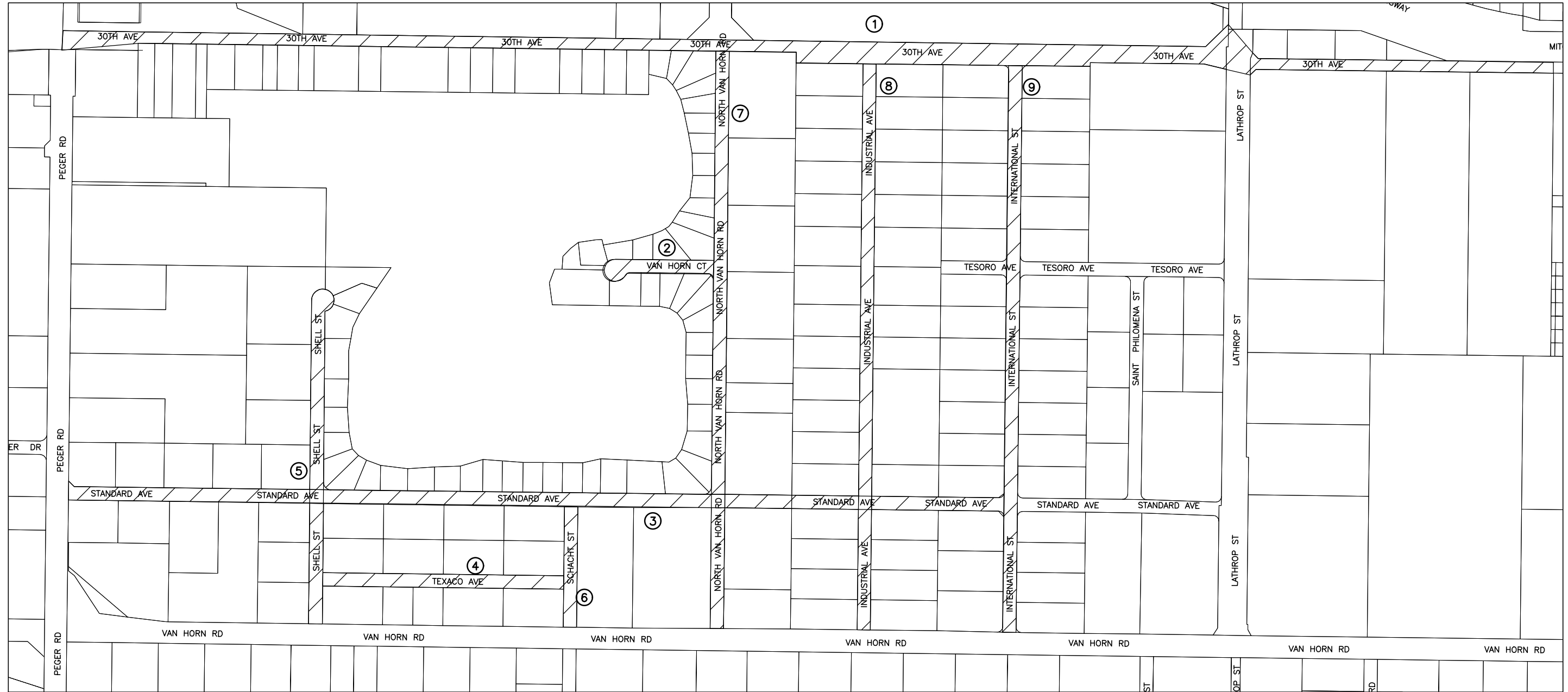
ALTERNATE 1 - AREA

SEE SHEET 3.11 FOR GENERAL STREET LOCATION
 *FOR INFORMATIONAL PURPOSE ONLY
 **ESTIMATE OF QUANTITIES PAY ITEM



04/12/21

DESIGNED: KLL		APPROVED		Transverse Pavement Markings	CITY OF FAIRBANKS, ALASKA Engineering Department	3.12		
DRAWN: KLL		CITY ENGINEER					ALTERNATE 1 - AREA	Project ITB-21-07
CHECKED: JFW, TMZ		DATE						
DATE	REVISION	BY	SCALE: NONE	DATE				

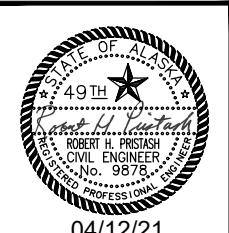


ALTERNATE 2 - AREA

GENERAL NOTES FOR ALTERNATE 2 - AREA

SEE SHEET 3.14 FOR ADDITIONAL PAINTED TRANSVERSE MARKING DETAILS

- 1. DOT MAINTAINED INTERSECTIONS
 - 1.1. 30TH AVE / PEGER RD
 - 1.2. VAN HORN RD / PEGER RD
 - 1.3. VAN HORN RD / SHELL ST
 - 1.4. VAN HORN RD / SCHACHT ST
 - 1.5. VAN HORN RD / NORTH VAN HORN RD
 - 1.6. VAN HORN RD / INDUSTRIAL AVE
 - 1.7. VAN HORN RD / INTERNATIONAL ST
- 2. DOT MAINTAINS THE FOLLOWING STREETS:
 - 2.1 VAN HORN RD
 - 2.2 PEGER RD



04/12/21

			DESIGNED: KLL	APPROVED	Transverse Pavement Markings	CITY OF FAIRBANKS, ALASKA Engineering Department	3.13
			DRAWN: KLL	_____			
			CHECKED: JFW, TMZ	CITY ENGINEER	ALTERNATE 2 - AREA	Project ITB-21-07	OF 25 SHEETS
DATE	REVISION	BY	DATE:	DATE			

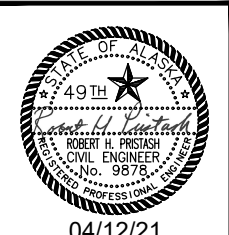
NO.	PAVEMENT MARKING TYPE	PRIMARY STREET	*18" DIAGONAL ISLAND STRIPING - YELLOW (EACH)	*18" DIAGONAL ISLAND STRIPING - YELLOW (LF)	**18" DIAGONAL ISLAND STRIPING - YELLOW (SF)	*24" WHITE STOP BAR (EACH)	*24" WHITE STOP BAR (LF)	**24" WHITE STOP BAR (SF)	LOCATION GUIDELINES	COMMENTS/CLARIFICATIONS
①	Paint	30th Avenue	1	211	316.5	1	34	68	Peger Road to Old Richardson Highway	Stop bar at Peger/30th Ave intersection.
②	Paint	Vanhorn Court	0	0	0	1	18	36	N. Vanhorn Street to Dead End	Stop bar at Van Horn Ct/N Van Horn intersection
③	Paint	Standard Avenue	0	0	0	5	90	180	Peger Road to International Street	Stop bars at Peger/Standard, N Van Horn/Standard, and International/Standard intersections
④	Paint	Texaco Avenue	0	0	0	2	36	72	Shell Street to Schacht Street	Stop bars at Shell/Texaco and Schacht/Texaco intersections
⑤	Paint	Shell Street	0	0	0	3	46	92	Vanhorn Road to Dead End	Stop bars at Shell/Standard and Van Horn/Shell intersections
⑥	Paint	Schacht Street	0	0	0	1	19	38	Standard Avenue to Vanhorn Road	Stop bar at Schacht/Standard intersection
⑦	Paint	N. Vanhorn Street	0	0	0	3	55	110	30th Avenue to Vanhorn Road	Stop bars at 30th/N Van Horn, Standard/N Van Horn intersections
⑧	Paint	Industrial Avenue	0	0	0	1	21	42	31st Avenue to Vanhorn Road	Stop bar at 30th Ave/Industrial Ave intersection
⑨	Paint	International Street	0	0	0	1	25	50	32nd Avenue to Vanhorn Road	Stop bar at 30th Ave/International intersection
SUBTOTAL FOR ALTERNATE 2 - AREA			1	211	316.5	18	344	688		

ALTERNATE 2 - AREA

SEE SHEET 3.13 FOR GENERAL STREET LOCATION

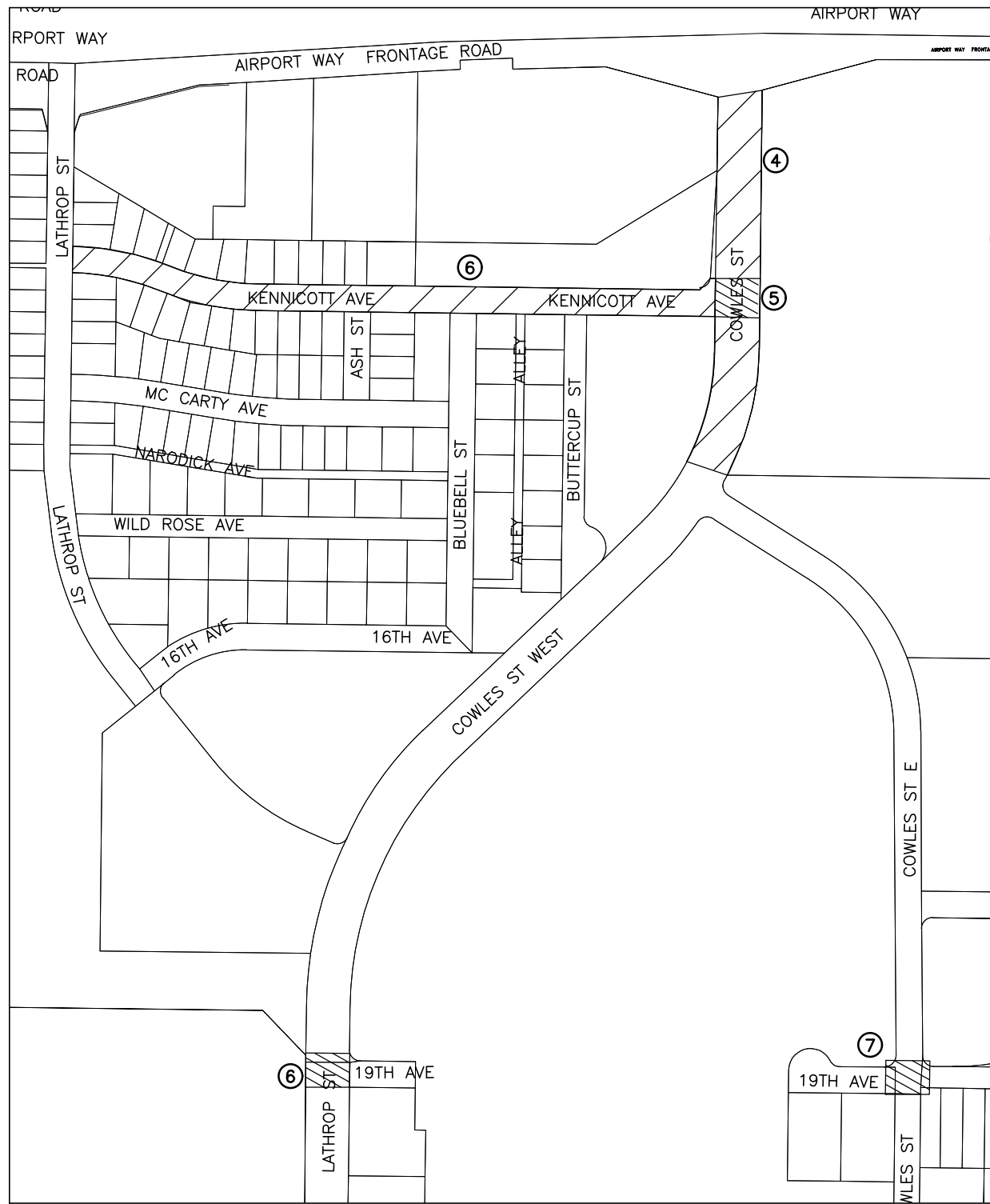
*FOR INFORMATIONAL PURPOSE ONLY

**ESTIMATE OF QUANTITIES PAY ITEM



04/12/21

DESIGNED: KLL		APPROVED		Transverse Pavement Markings	CITY OF FAIRBANKS, ALASKA Engineering Department	3.14		
DRAWN: KLL		_____ CITY ENGINEER					ALTERNATE 2 - AREA	Project ITB-21-07
CHECKED: JFW, TMZ		DATE						
DATE	REVISION	BY	SCALE: NONE					



GENERAL NOTES FOR ALTERNATE 3 – AREA

- 1. DOT MAINTAINS THE FOLLOWING STREETS:
 - 1.1. AIRPORT WAY
 - 1.2. AIRPORT FRONTAGE RD
- 1. PRIVATELY OWNED/MAINTAINED ROADS:
 - 1.1. 19TH AVENUE

ALTERNATE 3 – AREA

SEE SHEET 3.17 FOR ADDITIONAL PAINTED TRANSVERSE MARKING DETAILS

DATE	REVISION	BY

SCALE: NONE

DESIGNED: KLL
 DRAWN: KLL
 CHECKED: JFW, TMZ
 DATE:

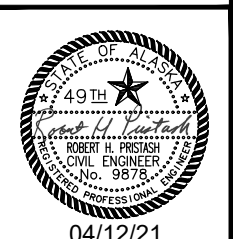
APPROVED

 CITY ENGINEER
 DATE

Transverse Pavement Markings
ALTERNATE 3 – AREA

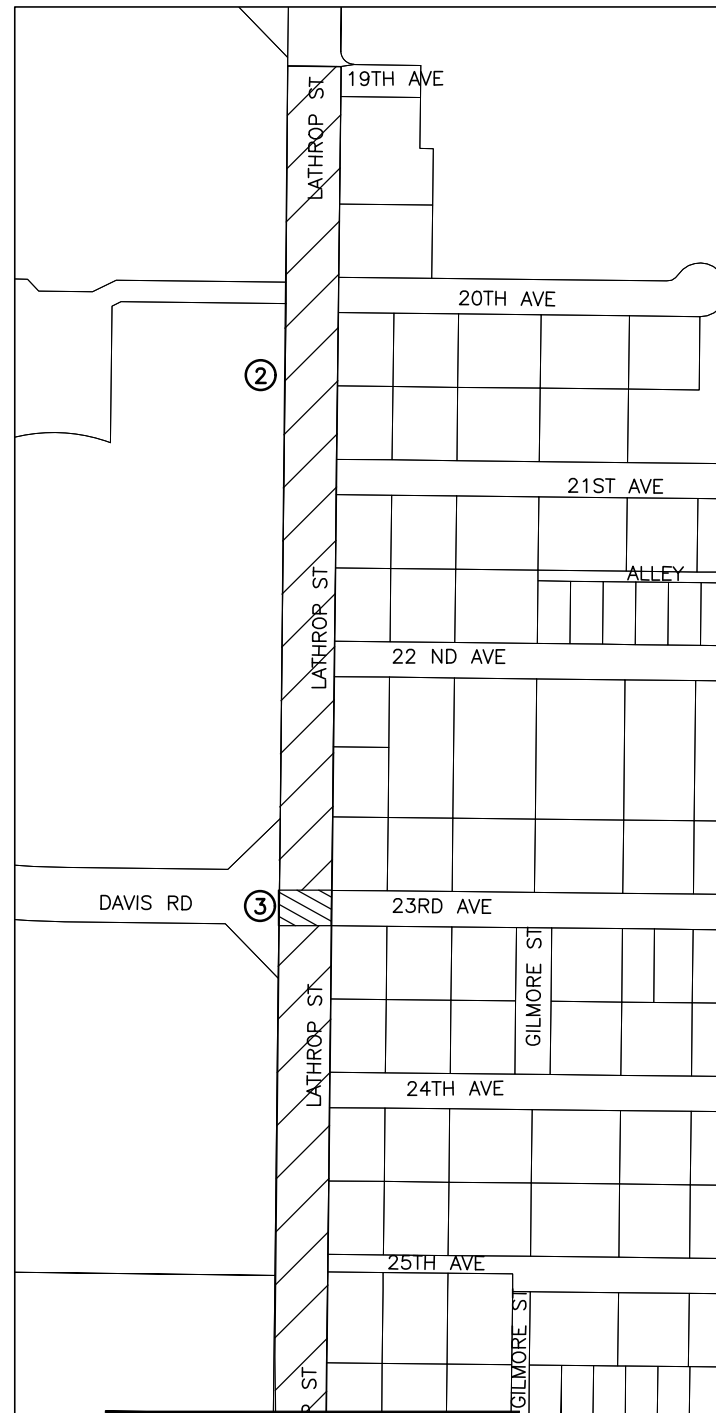
CITY OF FAIRBANKS, ALASKA
 Engineering Department
 Project ITB-21-07

3.15
 OF 25
 SHEETS

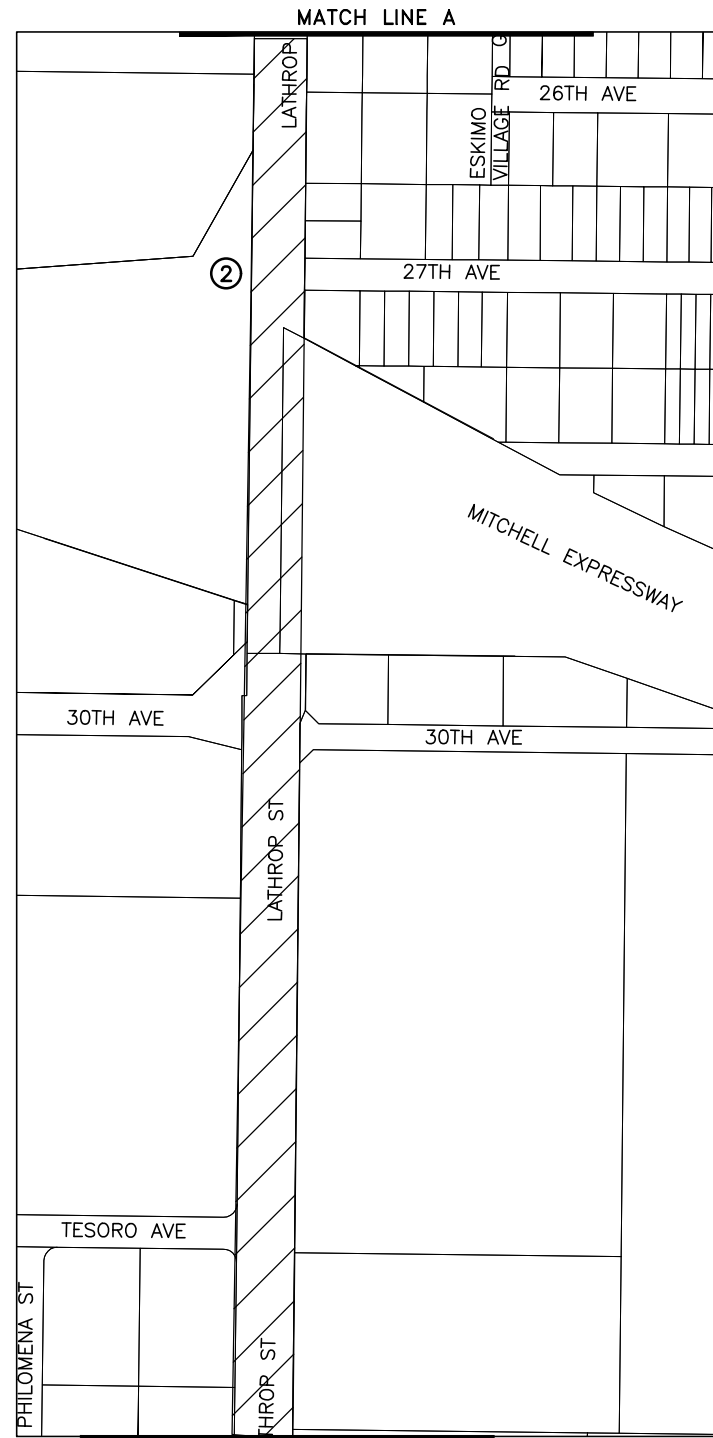


04/12/21

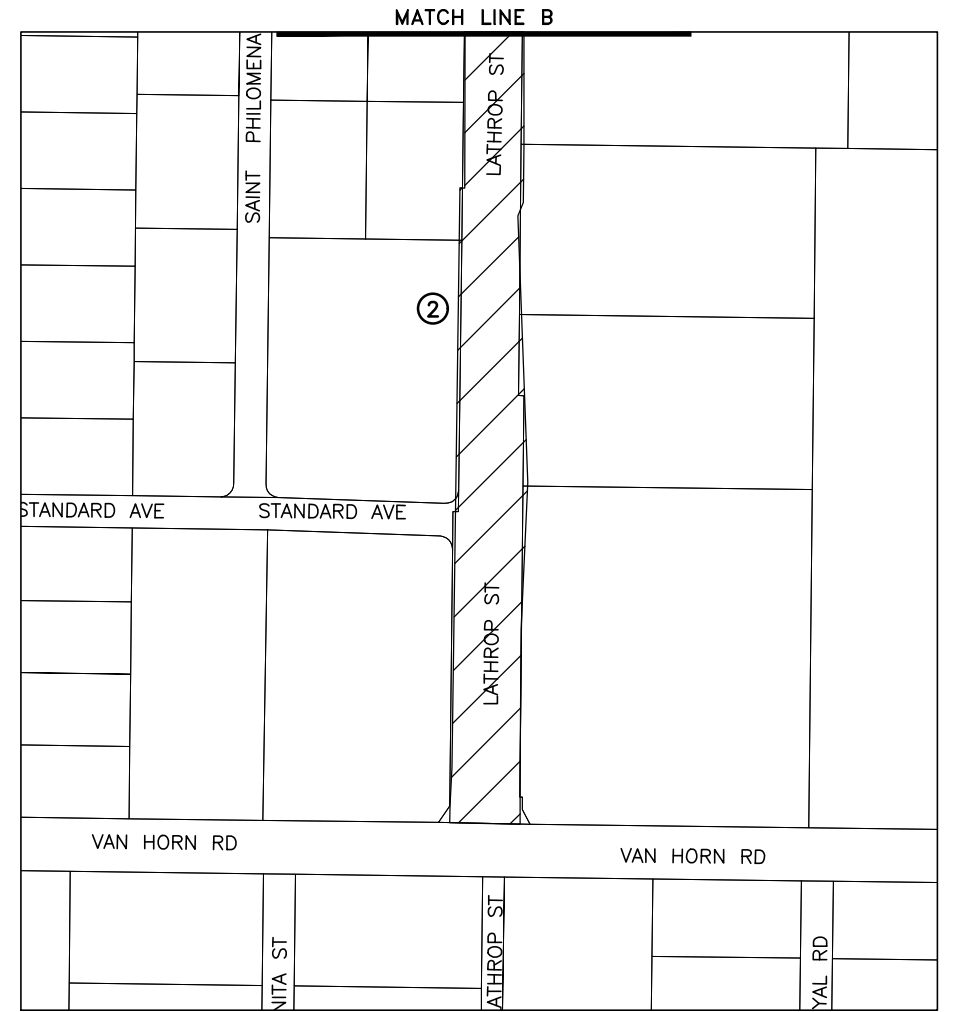




MATCH LINE A



MATCH LINE B



GENERAL NOTES FOR ALTERNATE 3 – AREA

1. DOT MAINTAINS THE FOLLOWING STREETS:
 - 1.1. AIRPORT WAY
 - 1.2. AIRPORT FRONTAGE RD
 - 1.3. DAVIS RD
 - 1.4. MITCHELL EXPRESSWAY
 - 1.5. VAN HORN RD

ALTERNATE 3 – AREA

SEE SHEET 3.17 FOR ADDITIONAL PAINTED TRANSVERSE MARKING DETAILS



04/12/21

DATE	REVISION	BY

SCALE: NONE

DESIGNED: KLL
 DRAWN: KLL
 CHECKED: JFW, TMZ
 DATE: _____

APPROVED

 CITY ENGINEER
 DATE: _____

Transverse Pavement Markings
ALTERNATE 3 – AREA

CITY OF FAIRBANKS, ALASKA
 Engineering Department
 Project ITB-21-07

3.16
 OF 25
 SHEETS

NO.	PAVEMENT MARKING TYPE	PRIMARY STREET	SECONDARY STREET	CARDINAL DIRECTION	* 24" CROSSWALKS (EACH)	* 24" CROSSWALKS (LF)	** 24" STANDARD CROSSWALKS (SF)	** RIGHT/LEFT ARROWS (EACH)	LOCATION GUIDELINES	COMMENTS/ CLARIFICATIONS
①	Paint	Lathrop Street (North)		-	0	0	0	17	1st Avenue to 10th Avenue	Lathrop St/10th Ave intersection is inlaid MMA
②	Paint	Lathrop Street (South)			0	0	0	26	19th Avenue to Van Horn Rd	
③	Paint	Lathrop Street	23rd Avenue/Davids Rd	North Leg	1	125	250	2		East leg of intersection is inlaid MMA
	Paint			South Leg	1	130	260	2		
	Paint			West Leg	1	119	238	2		
	Inlaid MMA			East Leg	0	0	0	0		
	-			Intersection Total	3	374	748	6		
④	Paint	West Cowles Street		-	0	0	0	4	Airport Way to East Cowles	
⑤	Paint	Cowles Street	Kennicott Avenue	North Leg	1	152	304	4		
	Paint			South Leg	1	147	294	2		
	Paint			West Leg	1	103	206	2		
	Paint			East Leg	1	117	234	1		
	-			Intersection Total	4	519	1038	9		
⑥	Paint	Kennicott Avenue		-	0	0	0	6	Lathrop Street to Cowles Street	4" white parking lines are inlaid MMA
⑦	Paint	East Cowles Street	17th/19th Avenue	North Leg	0	0	0	2		
	Paint			South Leg	0	0	0	0		
	Paint			East Leg	0	0	0	2		
	Paint			West Leg	0	0	0	1		
	-			Intersection Total	0	0	0	5		
SUBTOTAL FOR ALTERNATE 3 - AREA					7	893	1786	73		

ALTERNATE 3 - AREA

SEE SHEET 3.15 & 3.16 FOR GENERAL STREET LOCATION

*FOR INFORMATIONAL PURPOSE ONLY

**ESTIMATE OF QUANTITIES PAY ITEM



04/12/21

DESIGNED: KLL		APPROVED		Transverse Pavement Markings	CITY OF FAIRBANKS, ALASKA Engineering Department	3.17
DRAWN: KLL		CITY ENGINEER				
CHECKED: JFW, TMZ		DATE				
SCALE: NONE	DATE	REVISION	BY	DATE		



ALTERNATE 4 - AREA

SEE SHEET 3.19 FOR ADDITIONAL PAINTED TRANSVERSE MARKING DETAILS



04/12/21

DATE	REVISION	BY

SCALE: NONE

DESIGNED: KLL
 DRAWN: KLL
 CHECKED: JFW, TMZ
 DATE: _____

APPROVED

 CITY ENGINEER
 DATE: _____

Transverse Pavement Markings

ALTERNATE 4 - AREA

CITY OF FAIRBANKS, ALASKA
 Engineering Department

Project ITB-21-07

3.18

OF 25
 SHEETS

GENERAL NOTES FOR ALTERNATE 4 – AREA

1. EACH ACCESSIBILITY PARKING SPACE INCLUDES:
 - 1.1. (2) 4" SINGLE STRIPE BLUE STALL LINES, PERPENDICULAR TO THE CURB
 - 1.2. (1) INTERNATIONAL SYMBOL OF ACCESSIBILITY PARKING SPACE MARKING PER FIGURE 3B-22 OF THE MUTCD
 - 1.3. BLUE PAINT ON CURB WITH VARYING LENGTHS.
2. EACH FIRE HYDRANT SHALL HAVE RED PAINT INSTALLED ON THE CURB FOR 15 LINEAR FEET ON EACH SIDE OF THE HYDRANT FOR A TOTAL OF 30 LINEAR FEET.

NO.	PAVEMENT MARKING TYPE	PRIMARY STREET	CARDINAL DIRECTION	** 4" SINGLE STRIPE WHITE (LF)	** ACCESSIBILITY PARKING SPACE (EACH)	** FIRE HYDRANT CURB PAINT – RED (EACH)	LOCATION GUIDELINES	COMMENTS/ CLARIFICATION
①	Paint	1st Avenue	–	0	1	3	Wickersham Street to Noble Street	
②	Paint	2nd Avenue	–	561	2	8	Wickersham Street to Noble Street	Diagonal parking stalls
③	Paint	3rd Avenue	–	0	2	7	Wickersham Street to Noble Street	
④	Paint	4th Avenue	–	0	1	4	Wickersham Street to Noble Street	
⑤	Paint	5th Avenue	–	0	4	4	Wickersham Street to Noble Street	
⑥	Paint	Lacey Street	–	0	0	2	3rd Avenue and 4th Avenue	
⑦	Paint	Barnette Street		0	1	1	3rd Avenue and 4th Avenue	
⑧	Paint	Turner Street	–	0	1	0	2nd Avenue and 3rd Avenue	
SUBTOTAL FOR ALTERNATE 4 – AREA				561	12	29		

ALTERNATE 4 – AREA

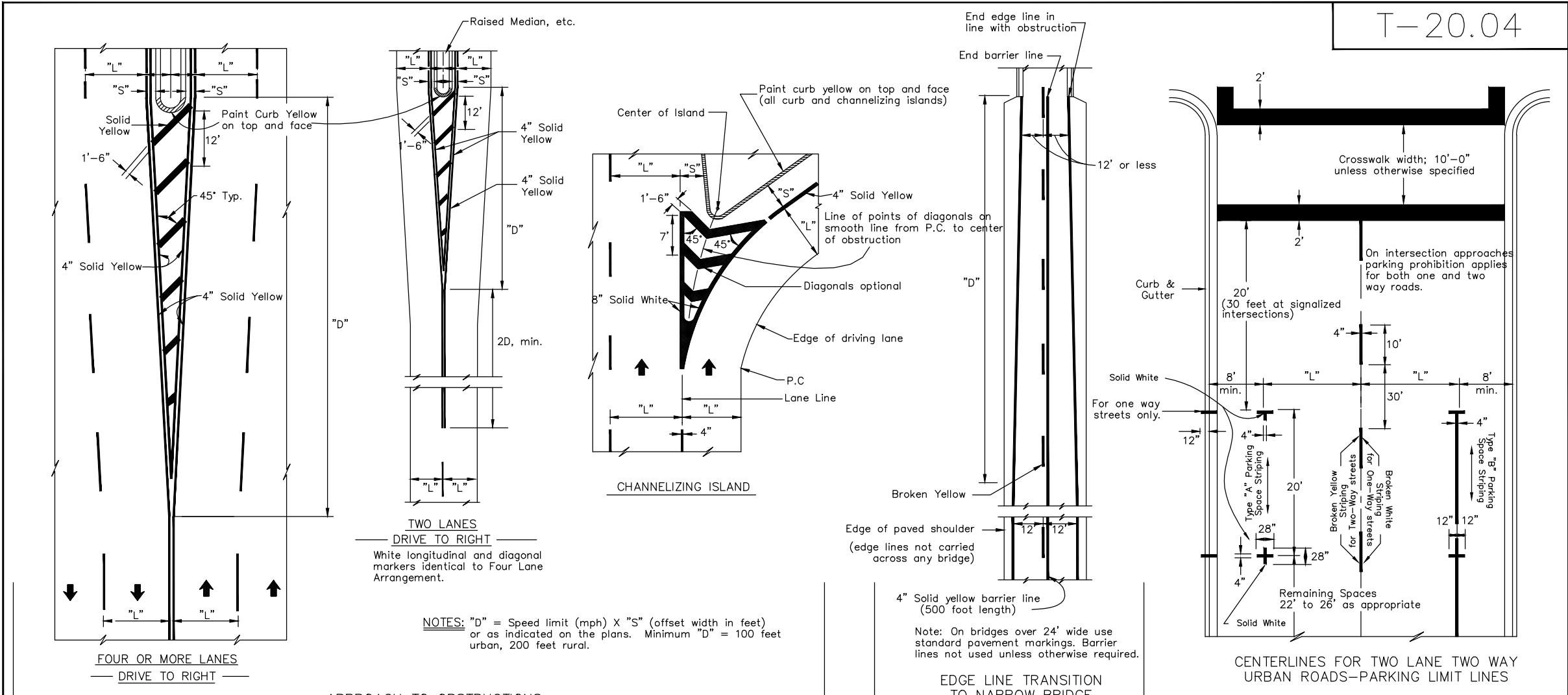
SEE SHEET 3.18 FOR GENERAL STREET LOCATION
 **ESTIMATE OF QUANTITIES PAY ITEM



04/12/21

		DESIGNED: KLL		APPROVED		Transverse Pavement Markings	CITY OF FAIRBANKS, ALASKA Engineering Department	3.19
		DRAWN: KLL		_____				
		CHECKED: JFW, TMZ		CITY ENGINEER				
DATE	REVISION	BY	DATE:	DATE		ALTERNATE 4 – AREA	Project ITB-21-07	OF 25 SHEETS

T-20.04

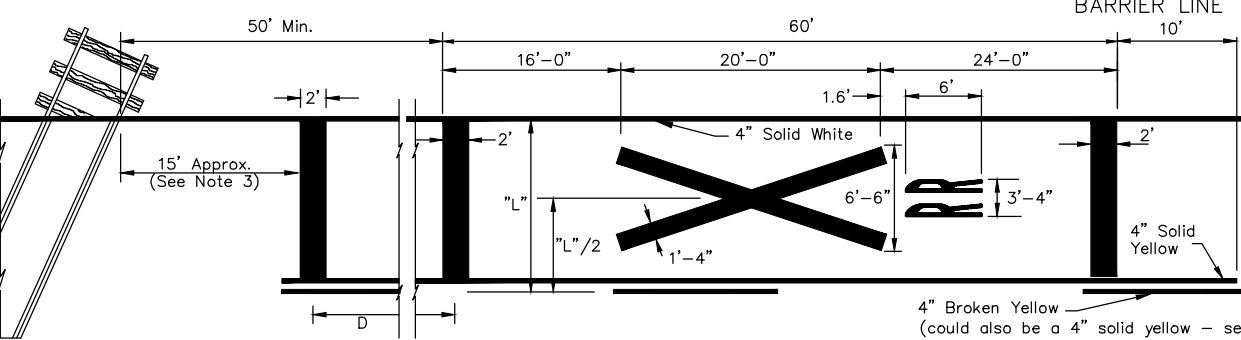


NOTES: "D" = Speed limit (mph) x "S" (offset width in feet) or as indicated on the plans. Minimum "D" = 100 feet urban, 200 feet rural.

Note: On bridges over 24' wide use standard pavement markings. Barrier lines not used unless otherwise required.

- RAILROAD CROSSING NOTES:**
- All markings solid white unless indicated otherwise.
 - On 4-lane roadways place railroad crossing approach markings in each lane of the approach.
 - Locate Stop Bar 15' from railroad track or 8' from gate, if present.
 - Place edge lines and lane lines on a uni-directional approach in a normal manner except that the lane line(s) shall be solid 4" white in lieu of broken for a distance of (D+60') in advance of the stop bands.

POSTED LIMIT	D
30 M.P.H.	225'
40	350'
50	475'
60	625'



APPROACH TO RAILROAD CROSSING ON 2 LANE 2 WAY HIGHWAY

- GENERAL NOTES:**
- "S" = offset distance as shown on the plans, otherwise 1 to 2 feet.
 - "L" = driving lane width.
 - See the Alaska Traffic Manual for additional guidance and/or restrictions on the use of traffic control devices.

REVISIONS		
Date	Description	By
12/11/18	Fixed "X" Dimensions	SP

State of Alaska DOT&PF
PAVEMENT MARKING APPLICATIONS

T-20.04

DATE	REVISION	BY

SCALE: NONE

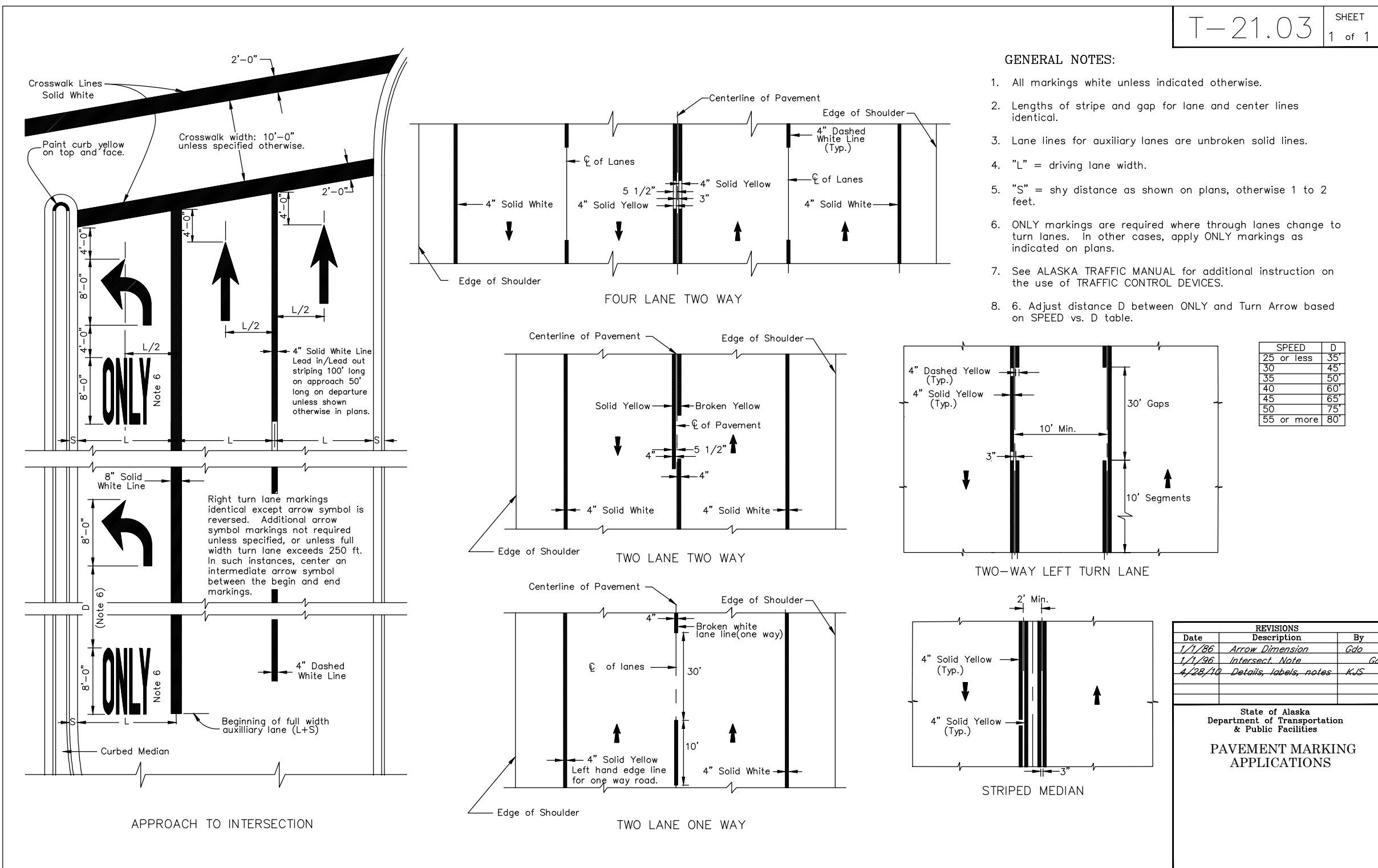
DESIGNED: KLL
DRAWN: KLL
CHECKED: JFW, TMZ
DATE:

APPROVED
CITY ENGINEER
DATE

Transverse Pavement Markings
STANDARD DRAWING T-20.04

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-21-07

4.01
OF 25 SHEETS



T-21.03

DATE	REVISION	BY

SCALE: NONE

DESIGNED: KLL
DRAWN: KLL
CHECKED: JFW, TMZ
DATE: _____

APPROVED

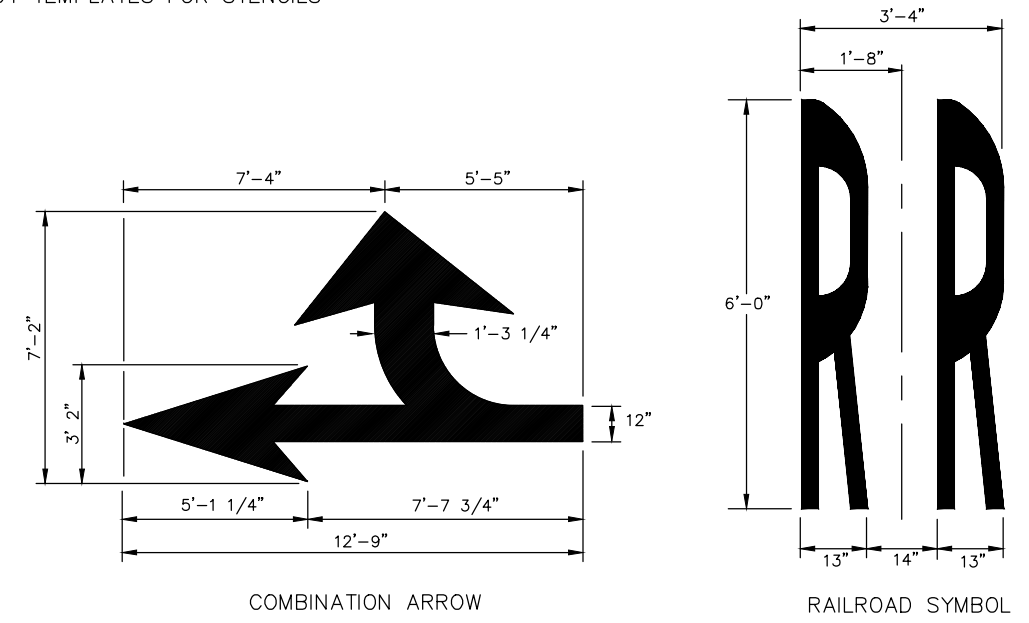
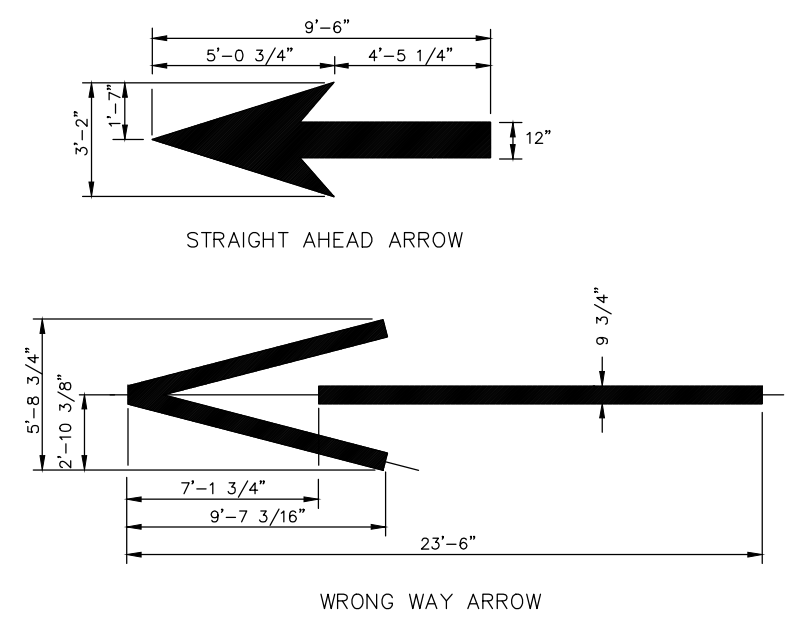
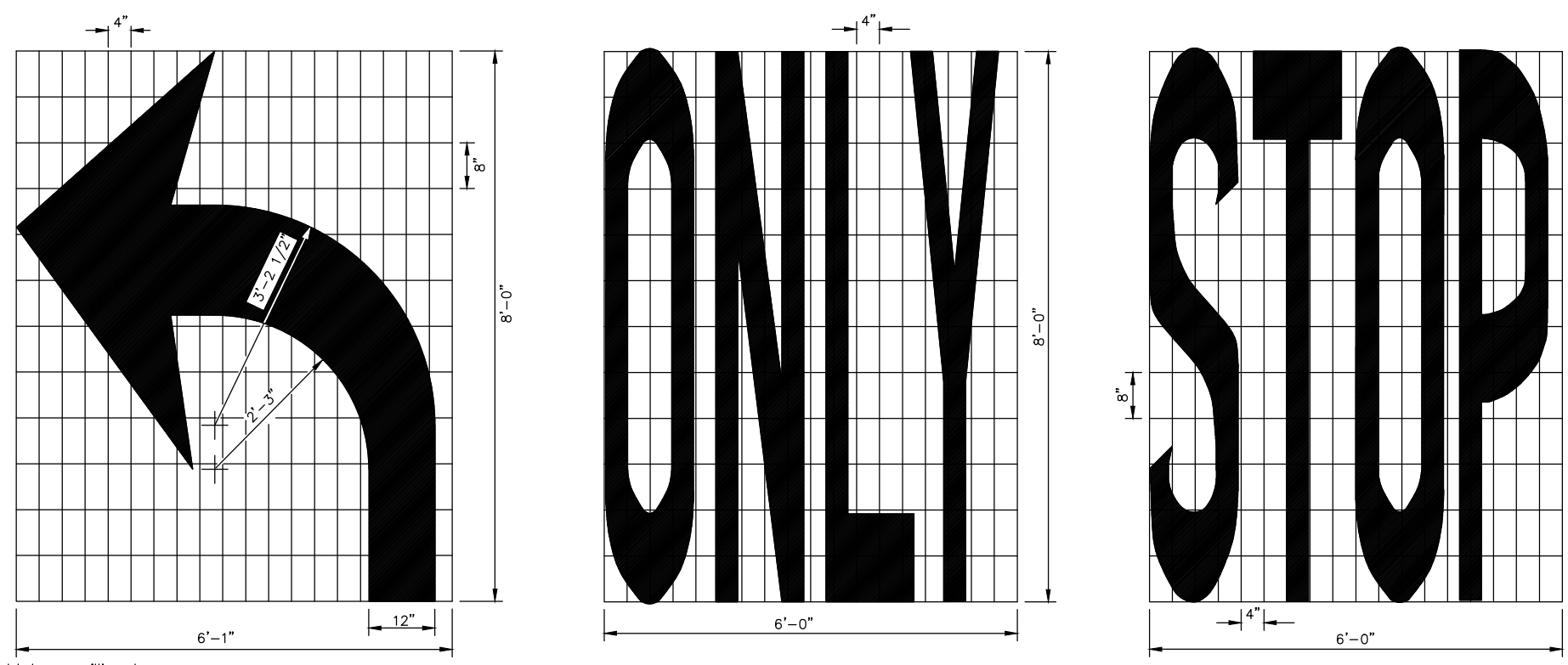
CITY ENGINEER
DATE: _____

Transverse Pavement Markings
STANDARD DRAWING T-21.03

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-21-07

GENERAL NOTES:

1. All symbols shown shall be white and reflectorized in accordance with the Special Provisions.
2. See the Alaska Sign Design Specifications (ASDS) for lettering and symbols for pavement marking details not provided on this drawing.



REVISIONS		
Date	Description	By
12/11/18	Revise RR Symbol	SP

State of Alaska DOT&PF

PAVEMENT MARKING SYMBOL DIMENSIONS

T-22.04

DATE	REVISION	BY

SCALE: NONE

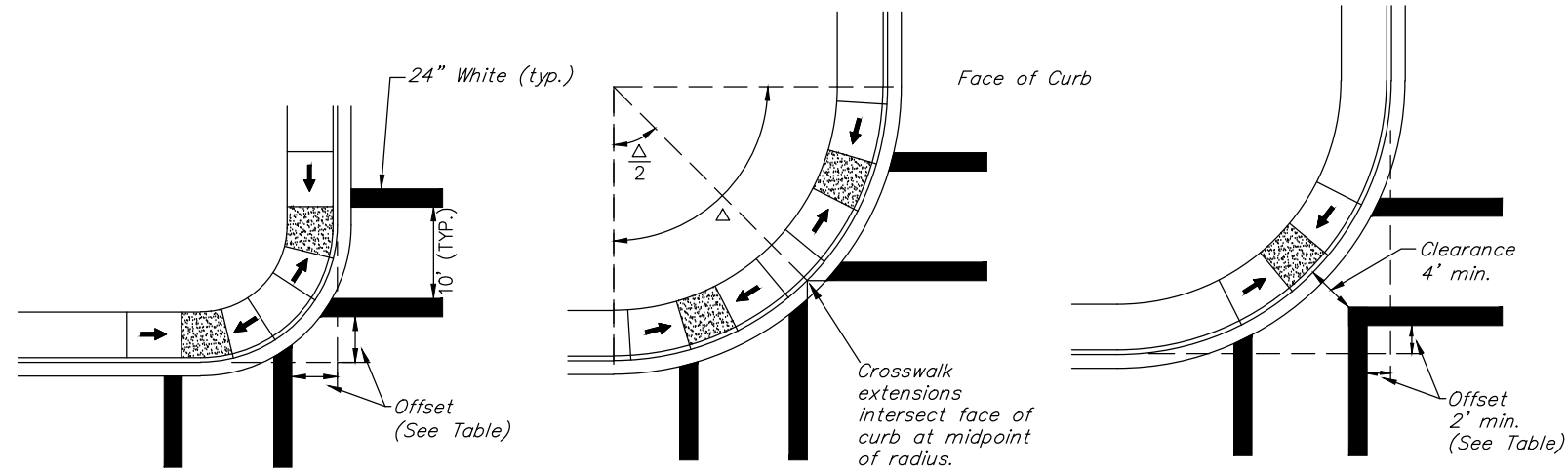
DESIGNED: KLL
 DRAWN: KLL
 CHECKED: JFW, TMZ
 DATE:

APPROVED

 CITY ENGINEER
 DATE

Transverse Pavement Markings
 STANDARD DRAWING T-23.00

CITY OF FAIRBANKS, ALASKA
 Engineering Department
 Project ITB-21-07



CASE 1
Dual Curb Ramps
Radius $\leq 25'$

CASE 1	
Crosswalk Offset From Face of Curb	
Radius (ft.)	Offset (ft.)
5	5
10	6
15	7
20	8
25	9

CASE 2
Dual Curb Ramps
 $25' < \text{Radius} \leq 50'$

CASE 3
Single Central Curb Ramp
 $25' \leq \text{Radius} \leq 50'$
(Not Recommended)

CASE 3	
Crosswalk Offset From Face of Curb	
Radius (ft)	Offset (ft)
25	2
30	3
35	5
40	6
45	8
50	9

NOTES.

1. The crosswalk locations shown assume a 90-degree intersection - adjust as necessary on skewed intersections to ensure that crosswalk landings (for parallel curb ramps) or ramp runs (for perpendicular curb stripes) fall within the inner edges of crosswalk stripes. If Case 3 (not recommended) is used, the layout should also be adjusted to provide at least the minimum clearance while maximizing the offset.
2. Although border crosswalks are shown, these details apply to ladder crosswalks also. When used, the outside of 10' wide ladder crosswalks should coincide with the inside of border crosswalks as shown here.
3. Border crosswalks should be used at traffic signals or on approaches controlled by stop signs. At other locations, ladder crosswalks should be used.
4. If only one crosswalk connects with a curb radius, it should be located as if there were two connecting crosswalks.
5. These details apply to parallel (shown) as well as perpendicular curb ramps.
6. Case 3, the layout for a single central curb ramp, should be used only when installing two ramps is not feasible. It should not be used for radii under 25 feet. See plans for ramp layout at particular locations.
7. Radius is measured to the face of curb.

REVISIONS		
Date	Description	By

State of Alaska
Department of Transportation
& Public Facilities
**CROSSWALK LOCATION
AT INTERSECTIONS**

T-23.00

DATE	REVISION	BY

SCALE: NONE

DESIGNED: KLL
DRAWN: KLL
CHECKED: JFW, TMZ
DATE:

APPROVED

CITY ENGINEER
DATE

Transverse Pavement Markings
STANDARD DRAWING T-23.00

CITY OF FAIRBANKS, ALASKA
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4.04
OF 25
SHEETS