

SUBJECT: APPROVAL OF UTILITY RELOCATION COSTS OF \$131,542.17 TO MATANUSKA TELECOM ASSOCIATION, INC. FOR THE MELANIE LANE, BRIAN DRIVE PROJECT IN RSA 26 - GREATER BUTTE, AND EXTEND THE COMPLETION DATE TO JULY 15, 2026.

AGENDA OF: June 17, 2025

ASSEMBLY ACTION:

AGENDA ACTION REQUESTED: Present to the Assembly for consideration.

Route To:	Signature
Originator	6/2/2025 X Thad W ag n e r Signed by: Thad W ag n e r
Project Management Division Manager	6/2/2025 X C o l e B r a n n h a m Signed by: C o l e B r a n n h a m
Public Works Director	6/2/2025 X T o m A d a m s , P E Signed by: T o m A d a m s
Purchasing Director	6/3/2025 X D u s t i n S i l v a Signed by: D u s t i n S i l v a
Finance Director	6/3/2025 X C h e y e n n e H e i n d e l Signed by: C h e y e n n e H e i n d e l
Borough Attorney	6/3/2025 X N i c h o l a s S p i r o p o u l o s Signed by: N i c h o l a s S p i r o p o u l o s
Borough Manager	6/3/2025 X M i c h a e l B r o w n Signed by: M i c h a e l B r o w n
Borough Clerk	6/6/2025 X L o n n i e M c K e c h n i e Signed by: L o n n i e M c K e c h n i e

ATTACHMENT (S): Cost Estimate (3 pp)
Plans (7 pp)

SUMMARY STATEMENT: The Melanie Lane, Brian Drive, Project number 30046-6600-6699 is included in the 2025 Road Service Area (RSA) Road Improvement Project (RIP) List for RSA 26, approved by the Assembly with AM 25-011 on April 15 2025.

The purpose of the project is to upgrade existing portions of

Melanie Lane and Brian Drive to MSB Standards, including surface improvement, grading, drainage and surfacing.

As part of the design process, utilities reviewed the plans to identify potential conflicts. Each utility in the project area was issued a \$5,000 reimbursable purchase order (PO) for preliminary engineering. If conflicts cannot be avoided, relocation must occur before construction, which is planned for summer 2025.

Matanuska Telecom Association, Inc. (MTA) provided a reimbursable time and materials cost estimate of \$126,542.17 for relocation of telecom utilities, bringing the total purchase order amount to \$131,542.17. MSB 3.08.161 requires Assembly approval for contract awards over \$100,000.

The Administration requests approval of \$131,542.17 for MTA's utility relocation services, for the Melanie Lane and Brian Drive Improvement Project in RSA 26, and extension of the completion date to July 15, 2026.

Additionally, the Administration requests authority to extend this contract's completion date by up to 90 days for unforeseen circumstances.

RECOMMENDATION OF ADMINISTRATION: Approve utility relocation costs of \$131,542.17 to Matanuska Telecom Association, Inc. for the Melanie Lane and Brian Drive Improvement Project in RSA 26 - Greater Butte, extend the completion date to July 15, 2026, and approve authority to extend the time of performance up to 90 days.

MATANUSKA-SUSITNA BOROUGH

FISCAL NOTE

Agenda Date: June 17, 2025

SUBJECT: APPROVAL OF UTILITY RELOCATION COSTS OF \$131,542.17 TO MATANUSKA TELECOM ASSOCIATION, INC. FOR THE MELANIE LANE BRIAN DRIVE PROJECT IN RSA 26 - GREATER BUTTE, AND EXTEND THE COMPLETION DATE TO JULY 15, 2026.

FISCAL ACTION (TO BE COMPLETED BY FINANCE)	FISCAL IMPACT YES NO
AMOUNT REQUESTED \$131,542.17	FUNDING SOURCE RSA Capital Projects
FROM ACCOUNT # 410.000.000 4xx.xxx	PROJECT# 30046-6600-6699
TO ACCOUNT:	PROJECT #
VERIFIED BY:  Recoverable Signature X Liesel Zanto Signed by: Liesel W. Zanto	

EXPENDITURES/REVENUES:

(Thousands of Dollars)

OPERATING	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030
Personnel Services						
Travel						
Contractual						
Supplies						
Equipment						
Land/Structures						
Grants, Claims						
Miscellaneous						
TOTAL OPERATING						

CAPITAL	131.5					
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REVENUE						
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FUNDING:

(Thousands of Dollars)

General Fund						
State/Federal Funds						
Other	131.5					
TOTAL	131.5					

POSITIONS:

Full-Time						
Part-Time						
Temporary						

ANALYSIS: (Attach a separate page if necessary)

APPROVED BY:	 Recoverable Signature X Cheyenne Heindel Signed by: Cheyenne Heindel
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OSP Work Order Cover Sheet



Work Order #:		Service Order #:		Eng:	
745-36300		N		dblehm	
Project Description:		MSB Relocate Melanie Ln		CLLI: BDLP	
*Purpose:				Bud# 345 - Relocate	
This work order will relocate MTA Facilities in conflict with MSB Project # 21-26-1867 MELANIE LN, BRIAN DR STREET IMPROVEMENTS GRADING DRAINAGE AND SURFACING.				Exch: 745 - Palmer	
				Acct. Code: 2422.10 UFO-Underground Fiber	
				Competitive CLLI? Y/N N	

Work Order Tracking

OSP Engineer	06/02/25 DDB	To ROW	___/___/___	To Construction	___/___/___	Testing Comp	___/___/___
OSP Ntwrk Engr	___/___/___	Out of ROW	___/___/___	To Contract	___/___/___	Final Post	___/___/___
OSP Eng Supv/Frm	___/___/___	Permit Req'd (Y/N)	___	Contract Comp	___/___/___	OSP Engr Review	___/___/___
DIR E&C	6/2/25 <i>CEB</i>	Verbal (Y/N)	___	Placing Comp	___/___/___	OSP Ntwrk Engr	___/___/___
VP of OEC *	___/___/___	Time	___	Plac Rem Comp	___/___/___	OSP E&C MGR	___/___/___
*(over \$200K Unidentified or 10% over Identified)		Date	___/___/___	SPL Comp	___/___/___		
Final	Is WO Identified?	AGENCY	___	SPL Rem Comp	___/___/___		
	2025 Identified	Per	___ Initials	F/O SPL Comp	___/___/___		

Template: DOL Rate OVER \$25K

Original		Estimate Summary	Hours	Dollars	Engineering
Change Orders:		Engineering - Preliminary Design	61.19	10,580.15	Contract Bid
Number / Date / Initial		Engineering - Construction	18.36	3,174.05	
/ /		Engineering - Posting Asbuilt redlines	12.24	2,116.03	
/ /		Survey Prep	0.00	0.00	
/ /		Survey Design - Crew	0.00	0.00	
/ /		Survey Construction - Crew	0.00	0.00	Placing
/ /		Inspector	0.00	0.00	Contract Bid
/ /		Placing	462.93	90,738.41	
/ /		Mobilization & Staging - Placing	0.00	0.00	
/ /		Splicing	148.93	29,604.80	Splicing
Cable Information		Mobilization & Staging - Splicing	0.00	0.00	Contract Bid
Estimated Footage:		ROW Permits/Easements/Fees		0.00	
Copper Footage	0	ROW Labor	0.00	0.00	
Fiber Footage	3863	Materials		11,044.43	
Actual Footage:		Material Overhead		664.87	
Copper Footage	0	Boring - Contractor	Footage 350	17,080.00	
Fiber Footage	0	Clearing - Contractor	Footage 0	0.00	
Retired Route Footage:		SWPPP		0.00	
Copper Footage	4271	Landscaping	Footage 0	0.00	
Fiber Footage	0	Perdiem/Lodging/Meals/Mileage		0.00	
New Route Footage:		Other		0.00	
Copper Footage	0	Aid to Construction		0.00	
Fiber Footage	3863				
			Material + Overhead:	\$ 11,709.30	
			Labor Sub Total:	\$ 136,213.44	ROM or
			Other Sub Total:	\$ 17,080.00	Est. Budget
			TOTAL Work Order:	\$ 165,002.74	\$5,000.00

Notes:

VDSL Nodes:	Total Estimated:	VDSL Nodes:	Total Estimated:
Total Lots:	0	Loops > 6.5 KFT Before Cutover:	0
Total Structures:	0	Loops < 6.5 KFT After Cutover:	0
Lots-passed w/Innerduct:	0	Loops > 4 KFT Before Cutover:	0
Loops >10 KFT Before Cutover:	0	Loops < 4 KFT After Cutover:	0
Fiber Builds:	Total Estimated:	Fiber Builds:	Total Estimated:
Total Lots:	27	Total Structures - FTTB:	0
FDH being placed? Y or N	N	Total Structures - FTTH:	19

Notes:

This Work Order is based on 2024 Labor Rates updated 04/14/2025 and is priced for Summer Construction.

ADOT to provide all MTA project surveying and staking - no \$ added for "MTAout of project limits" surveying or staking.

ADOT REIMBURSABLE: \$131,542.17 (\$21,546.78 MATERIALS + \$109,995.39 LABOR)

MTA BETTERMENTS: \$38,394.24 (\$7,176.05 MATERIALS + \$31,218.19 LABOR)

AM 25-069

Relocate Summary Report

WO#:		745-36300	 Employee Name:								Matanuska Telephone Association					
Exch:		745 - Palmer									Employee #:		Relocate - Summary Report			
CLLI:		BDLP														
Name:		MSB Relocate Melanie Ln									Expected Pickup Date:					
IM #	Qty	Unit	DESCRIPTION	Comments	DEPT	Material Cost	DB Labor Hours	Replacement in Kind - Materials	Replacement in Kind - LABOR	Betterment - Materials	Betterment - LABOR					
0	200	BM 60 (1.25)	BORED Duct Plastic, 1.25"	B=80'	Contract	9,100.00	0	\$5,460.00		\$3,640.00						
0	150	BM 60 (2ea 1.25)	BORED Duct Plastic, 1.25" x 2	B=UP FROM, BM 60 (1x1.25) TO (2x1.25) @ \$45.50'	Contract	7,980.00	0	\$6,825.00		\$1,155.00						
0		Engineering Hours			Eng		91.78									
0		Surveying Hours			Eng		0.00									
0		Placing Mobilization &			PLC		0.00									
0		Splicing Mobilization &			SPL	-	0.00									
23405	18	BDO-5A KIT	PEDESTAL, F/O CABLE, BDO-5A	B=2	PLC	2,790.00	\$ 8,114.81	\$2,480.00	\$7,213.17	\$310.00	\$901.65					
1601	18	BDO5AK Includes BA 22	POST, WOOD, RECT, 3.5x4.5IN x 8FT	B=2	PLC	637.20	\$ 2,028.70	\$566.40	\$1,803.29	\$70.80	\$225.41					
16008	18	BDO5AK Includes BM 11	MARKER,PEDESTAL,YLW,4FT,CLAMPS	B=2	PLC	217.26	\$ 1,217.22	\$193.12	\$1,081.98	\$24.14	\$135.25					
1610	14	BM 2 5/8	ROD,GROUND,5/8IN x 8FT,BLACK-	B=2	PLC	314.02	\$ 1,577.88	\$269.16	\$1,352.47	\$44.86	\$225.41					
0	142	BM 70	Compacted Road/Driveway Crossing added to trenching cost		PLC	-	\$ 10,668.41	\$0.00	\$10,668.41							
17096	3655	BM 92-1.25D	INNERDUCT,1.25IN,BLK/ORG STRIPE	B=PLACING 2ND PIPE IN TRENCH 3,146'	PLC	2,010.25	\$ 4,119.40	\$300.85	\$1,121.35	\$1,709.40	\$2,998.05					
17096	3717	BM 92-1.25T	INNERDUCT,1.25IN,BLK/ORG STRIP	B=40'	PLC	2,044.35	\$ 50,271.27	\$2,022.35	\$49,730.29	\$22.00	\$540.99					
22972	657	UFO 06	CABLE F/O 06 -Toneable, Underground, in Conduit	REPLACING BFC 6-24 @ 0.06 lbr hrs + \$.41 materials UFO 6 @ 0.060 lbr hrs + \$.25 materials(259') .B=263' (NEW MTA)	PLC	164.25	\$ 2,665.72	\$98.50	\$1,598.62	\$65.75	\$1,067.10					
22966	1966	UFO 24	CABLE F/O 24 -Dbl Jkt, Sngl-Armor,Underground in Conduit *Labor rate is for Blowing Fiber	REPLACING BFC 50-24 @ 0.06 lbr hrs + \$1.89 materials & BFC 50-24 @ 0.06 lbr hrs + \$1.07 materials, UFO 24 @ 0.060 lbr hrs + \$.54 materials.	PLC	1,061.64	\$ 3,545.27	\$1,061.64	\$3,545.27							
22970	1896	UFO 96	CABLE F/O 96 -Dbl Jkt, Sngl-Armor,Underground in Conduit *Labor rate is for Blowing Fiber	REPLACING BFC 100-24 @ 0.06 lbr hrs + \$3.22 materials WITH UFO 96 @ 0.060 lbr hrs + \$.89 materials.	PLC	1,687.44	\$ 3,419.04	\$1,687.44	\$3,419.04							
0	190	WBFC	LOWER BURIED FILLED CABLE		PLC	-	\$ 2,569.69	\$0.00	\$2,569.69							
0	40	WBM 92 ()	REARRANGE INNERDUCT		PLC	-	\$ 540.99		\$540.99							
0	18	FS-6	6-FIBER PEDESTAL STRAP	B	SPL	-	\$ 2,057.48	\$0.00	\$0.00		\$2,057.48					
11309	1	HBFC-4	BUR FILL CLOSURE (100-200 PR)		SPL	118.02	\$ 228.61	\$118.02	\$228.61							
0	100	HC-1	CABLE SPLICING W/INDIV. CONN.		SPL	-	\$ 457.22	\$0.00	\$457.22							
0	134	HO-1	FUSION, ONE FIBER (FO)	B	SPL	-	\$ 7,658.38	\$0.00	\$7,429.78		\$228.61					
0	18	PEDS-F	FIBER SET-UP BDO-5A	B	SPL	-	\$ 8,229.91	\$0.00	\$0.00		\$8,229.91					
0	48	WHO-1	Fiber Optic Cutover rearrange		SPL	-	\$ 10,973.21				\$10,973.21					
0	717	XBFC 100-24	100 PAIR BURIED ABANDON		SPL	-	\$ -		\$0.00							
0	1229	XBFC 25-24	25 PAIR BURIED ABANDON		SPL	-	\$ -									
0	1740	XBFC 50-24	50 PAIR BURIED ABANDON		SPL	-	\$ -									
0	564	XBFC 6-24	6 PAIR BURIED ABANDON		SPL	-	\$ -									

Relocate Summary Report

WO#:		745-36300		Employee Name:					Matanuska Telephone Association			
Exch:		745 - Palmer		Employee #:					Relocate - Summary Report			
CLLI:		BDLP		Expected Pickup Date:								
Name:		MSB Relocate Melanie Ln										
IM #	Qty	Unit	DESCRIPTION	Comments	DEPT	Material Cost	DB Labor Hours	Replacement in Kind - Materials	Replacement in Kind - LABOR	Betterment - Materials	Betterment - LABOR	
		Totals			ALL			Replacement in Kind - Materials	Replacement in Kind - LABOR	Betterment - Materials	Betterment - LABOR	
							Material Cost	\$8,797.48		\$2,246.95		
			Total Labor Costs = \$120,343.21			Betterment %	Material Overhead	\$529.61		\$135.27		
			Total Placing Labor Costs = \$90,738.41			7%	Placing Labor		\$84,644.56		\$6,093.85	
			Total Splicing Labor Costs = \$29,604.80			73%	Splicing Labor		\$8,115.60		\$21,489.20	
							Boring	\$12,285.00		\$4,795.00		
							Clearing	\$0.00			\$0.00	
			Total Engineering Labor Costs = \$15,870.23			13.19%	Engineering hours		\$12,232.72		\$3,637.51	
							Survey		\$0.00			
							Construction Inspector Hours		\$0.00			
							SWPPP		\$0.00			
							Landscaping		\$0.00			
							Perdiem, Lodging Meals Mieage		\$0.00			
							Other		\$0.00			
							Aid to Constr		\$0.00			
							ROW permit/fees		\$0.00			
							ROW		\$0.00			
							Placing Stage & Mob Hours		\$0.00		\$0.00	
			Total Placing Staging & Mobilization Labor Costs = \$0.00			6.72%	Splicing Stage & Mob Hours		\$0.00		\$0.00	
			Total Splicing Staging & Mobilization Labor Costs = \$0.00			72.59%	Sub-Total	\$21,612.09	\$104,992.88	\$7,177.22	\$31,220.55	
								\$165,002.74				

CONSTRUCTION COPY

W.O. OVERVIEW

This work order will relocate MTA Facilities in conflict with
MSB Project # 21-26-1867
MELANIE LN, BRIAN DR STREET IMPROVEMENTS GRADING DRAINAGE AND SURFACING.

This work order contains MTA Betterments and MSB Cost Savings which will convert
copper to fiber service on E. Brian Dr, E. Melanie Ln and Mc Combs Rd.

LEGEND:

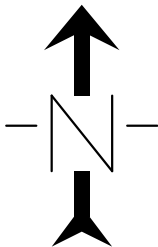
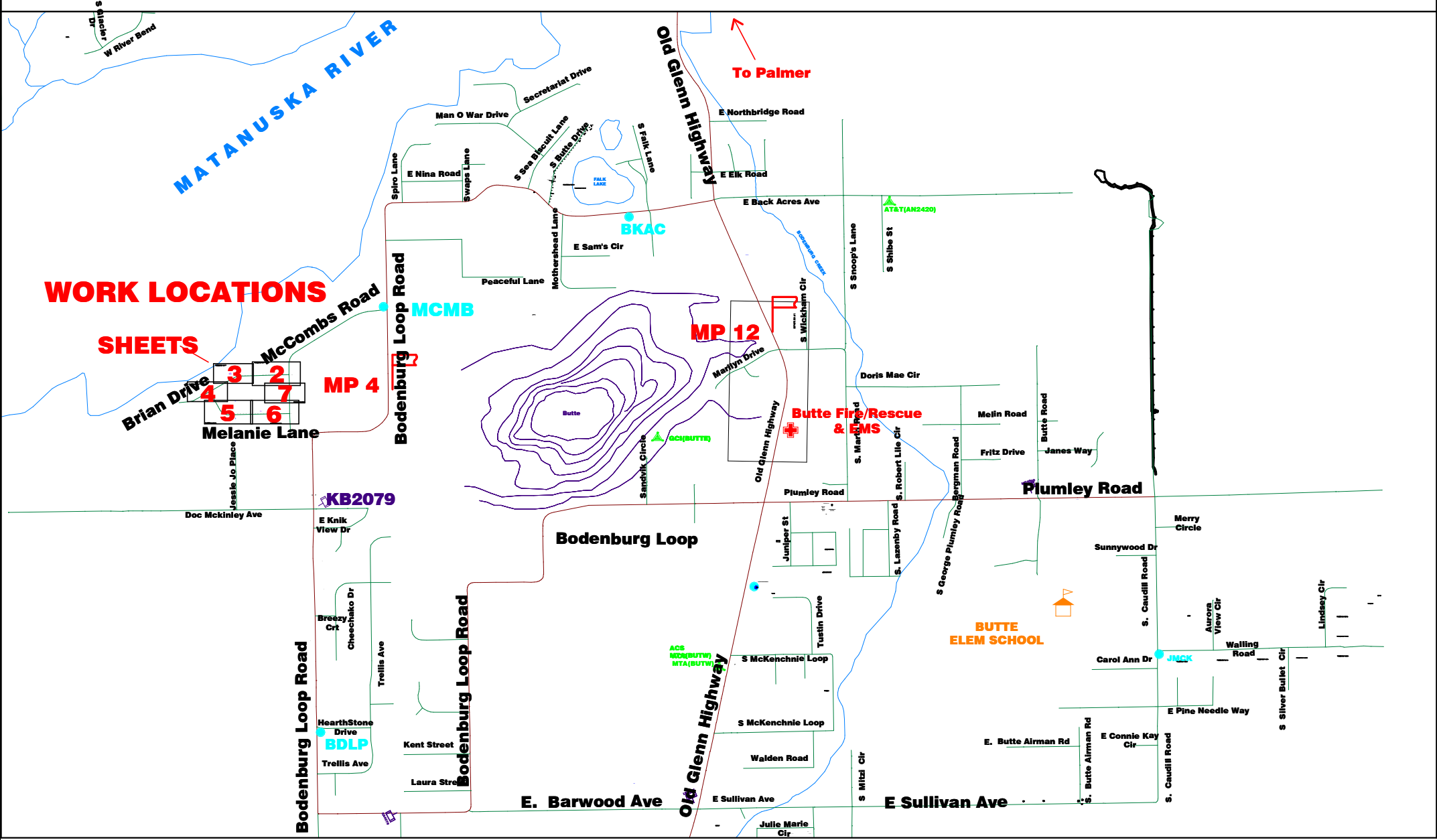
CABLE PLACEMENT DEPTHS:	COPPER	FIBER
PUBLIC UTILITY EASMENT:	36" MIN	42" MIN
ROAD ROW (OUTER 5')	36"	42"
ROAD CROSSINGS	48"	48"

AERIAL CABLE		
BURIED CABLE		
NEW PEDESTAL		
EXISTING PEDESTAL		

MUNICIPALITY OF ANCHORAGE:	COPPER	FIBER
PUBLIC UTILITY EASEMENT:	42" MIN	42" MIN
ROAD ROW (OUTER 5')	42"	42"
ROAD CROSSINGS	48"	48"

MSB TO PROVIDE, AS NECESSARY, PROJECT SURVEYING AND STAKING,
SWPPP, AND CLEARING/GRUBBING.

VICINITY MAP



CALL BEFORE YOU DIG!!!	
ALASKA Digline INC 1-800-478-3121 - (811) COMPANY PROVIDED LOCATES	
GOLDEN VALLEY ELECTRIC ASSOCIATION CANTWELL - CLEAR:	452-1151
PARKS SERVICE MAINTENANCE DEPT:	683-2294
MATANUSKA - SUSITNA BOROUGH PUBLIC WORKS:	745-9802
CITY OF PALMER PUBLIC WORKS PUBLIC WORKS:	745-3925
DOT TRAFFIC SIGNALS ER-KNIK:	371-7081
VALLEY:	745-2102
STREET LIGHTS ER-KNIK:	338-1436
VALLEY:	745-2102

CONSTRUCTION NOTES:

- Y

CAUTION: LOCATE ALL UNDERGROUND FACILITIES IN AREA BEFORE START OF CONSTRUCTION - LOCATIONS ON PRINTS ARE APPROXIMATE. DRAWINGS ARE NOT TO SCALE. EXPOSE ALL CROSSINGS OF EXISTING BURIED FACILITIES BY HAND. USE EXTREME CAUTION WHILE WORKING AROUND HIGH VOLTAGE POWER LINES AND GAS MAINS.
- Y

SIGN AND/OR FLAG WORK LOCATION WITHIN ROAD ROW WHERE VISIBILITY IS LESS THAN 500 FT. BOTH DIRECTIONS. OBSERVE ALL APPLICABLE SAFETY PROCEDURES FROM ADOT, BOROUGH, MTA, MUNICIPALITY OF ANCHORAGE AND AREA.
- Y

PROJECT WILL BE STAKED - NO DEVIATIONS WILL BE PERMITTED WITHOUT PRIOR AUTHORIZATION FROM THE ENGINEERING DEPT. CONTACT ENGINEERING 48 HRS PRIOR START OF CONSTRUCTION FOR STAKES - IF REQUIRED. ALL MTA STAKING, LATH AND FLAGGING WILL BE REMOVED AT COMPLETION OF THE WORK ORDER.
- Y

A COPY OF APPROPRIATE PERMITS MUST BE ON SITE DURING CONSTRUCTION.
- Y

USE CAUTION WHEN DIGGING NEAR POWER POLES - SUPPORT IF NECESSARY.
- N

ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RETURNED TO ORIGINAL CONDITION. DO NOT DISTURB LOT PINS OR SURVEY MARKERS.
- Y

ALL OPEN CUT ROAD CROSSINGS SHALL BE RECOMPACTED PER PERMIT REQUIREMENTS.
- Y

THE FOLLOWING WORK WILL BE REQUIRED AT ALL INNERDUCT JOINTS: A MINIMUM 12" LENGTH OF HEAT SHRINK TUBING TO BE APPLIED EQUALLY OVER BOTH SIDES OF THE INNERDUCT COUPLING TO MAKE AN AIRTIGHT SEAL.
- N

CLEARING REQUIRED
- N

CREEK/LAKE
- Y

PIPE PUSH/BORE
- Y

CUT SHEETS REQUIRED
- N

CONST SURVEY ONLY
- Y

CAT REQUIRED (COPPER)
- N

SWAMP
- N

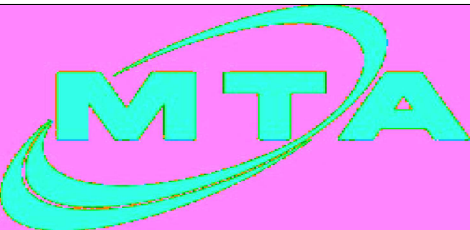
LANE CLOSURE REQUIRED
- N

CO & HUT MDF JUMPERS CABLE
- Y

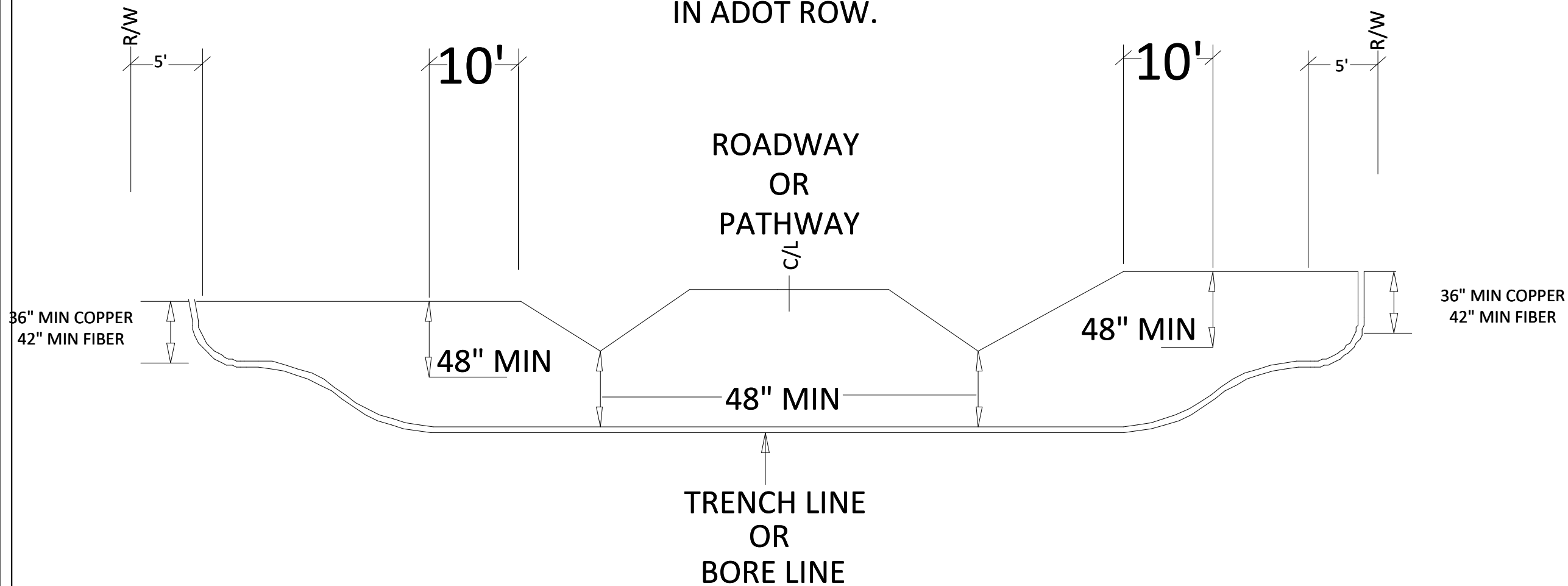
R.O.W. REQ REVIEW
- ALL

SHEET(S)
- MILEPOST
- MILEPOINT
- ROUTE#

OSP E&C SUPV/FOREMAN:	DATE:
NETWORK PLANNER:	DATE:
DIRECTOR OSP ENG&CONST: <i>Cliff Burris</i>	DATE: 6/2/25
R.O.W AGENT:	DATE:
RELATED WO:	CLI: MCMB
WO#: 745-36300	ENG: DAVID BLEHM
DATE: 3/20/2025 12:00:00 AM	FILE: CV_745-363008_SHEET 1 OF 7



WO# 745-32449 MTA TYPICAL FOR ADOT ROW
THIS DRAWING SUPERSEDES THE COVER SHEET LEGEND.
ADOT ROADWAY &/OR PATHWAY DETAIL
FOUR FOOT MINIMUM DEPTH TO
BE MAINTAINED WHEN CROSSING
UNDER, OR WITHIN TEN FEET OF
SLOPE LIMITS OF PATH AND/OR ROADWAY
IN ADOT ROW.



- GENERAL BORING / EXCAVATION NOTES:
- 1. ALL CONDUIT PLACED BY BORING OR EXCAVATION MUST BE A MINIMUM OF 4 FEET BELOW THE LOWEST ROAD EXCAVATION (USUALLY THE DITCH BOTTOM) IN STRUCTURAL SECTIONS AND WITHIN TEN FEET OF SLOPE LIMITS (INCLUDING BIKE PATH SLOPES)
 - 2. NOTED BORE/TRENCH LENGTHS ARE APPROXIMATE. ACTUAL LENGTHS MAY VARY DEPENDING ON RIG SETUP LOCATIONS

WO NUMBER: 745-36300	
ENGINEER: DAVID BLEHM	
CLLI:	TWIN:
RNG: 02E	SEC: 21 / 22
GRID: NE3218	MSB: PA 13 / PA 14
DRAFTER:	
AS BUILT DATE: 3/20/2025 12:00:00 AM	
WO DESC.: MSB Project # 21-26-1867 - MELANIE LN	
SHEET NAME: CV_745-363008_SHEET 1a OF 7	

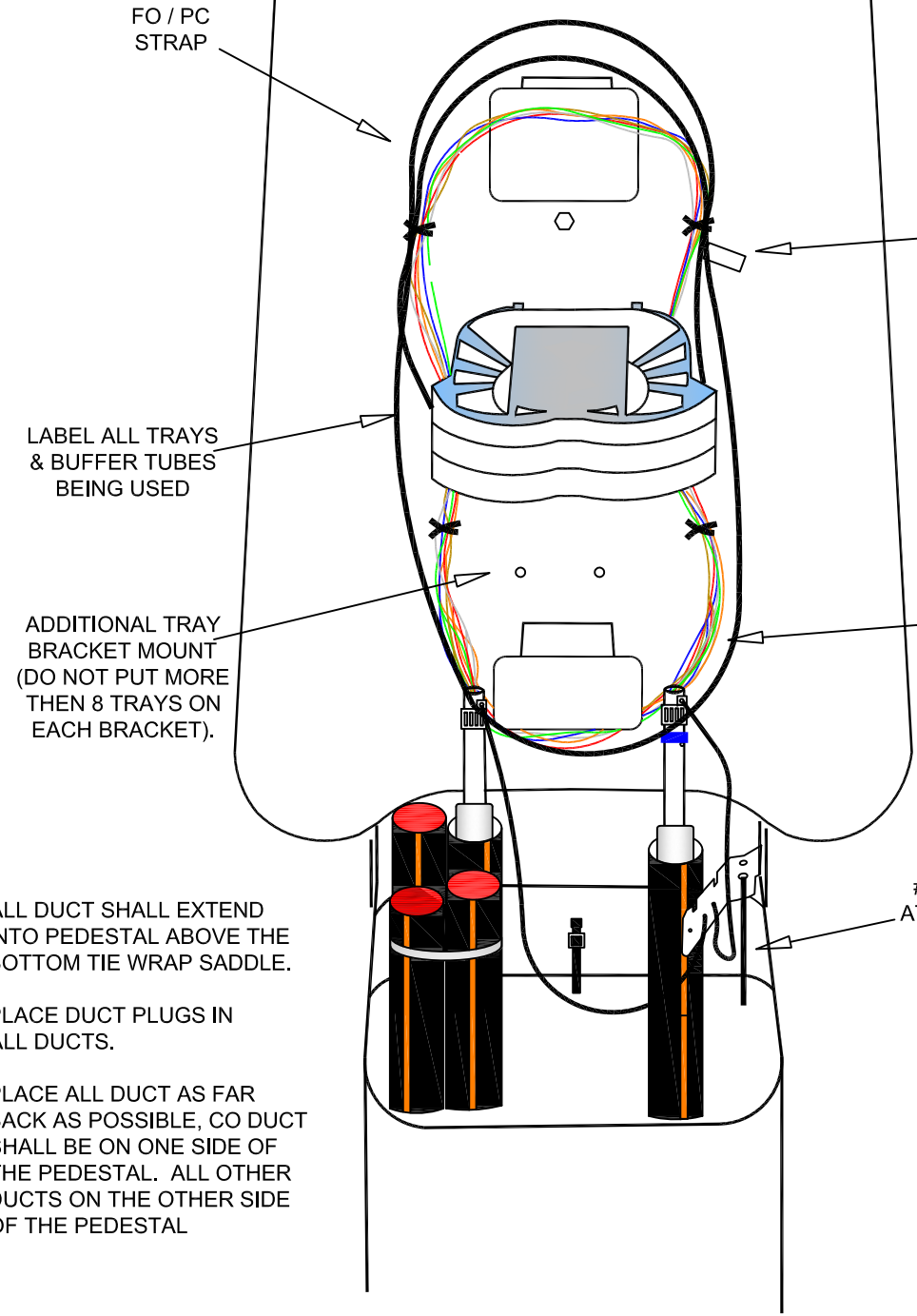
NOTES:
Scale:

Filename: CV_745-363008_SHEET 1A OF 7
Staked By: AD\cdowling
Last Accessed By:
Last Saved: 5/28/2025

SUB. INFO

[.IMAGE MTA LOGO-Model.JPEG.]

FIBER OPTIC CABLE LOOPS SHALL BE 20' MEASURED FROM SHEATH OPENING TO SHEATH OPENING. LEVEL WITH TOP OF BOTTOM STORAGE BRACKET, CUT STRENGTH MEMBERS NO MORE THAN 2" ABOVE BOND



ALL DUCT SHALL EXTEND INTO PEDESTAL ABOVE THE BOTTOM TIE WRAP SADDLE.

PLACE DUCT PLUGS IN ALL DUCTS.

PLACE ALL DUCT AS FAR BACK AS POSSIBLE, CO DUCT SHALL BE ON ONE SIDE OF THE PEDESTAL. ALL OTHER DUCTS ON THE OTHER SIDE OF THE PEDESTAL

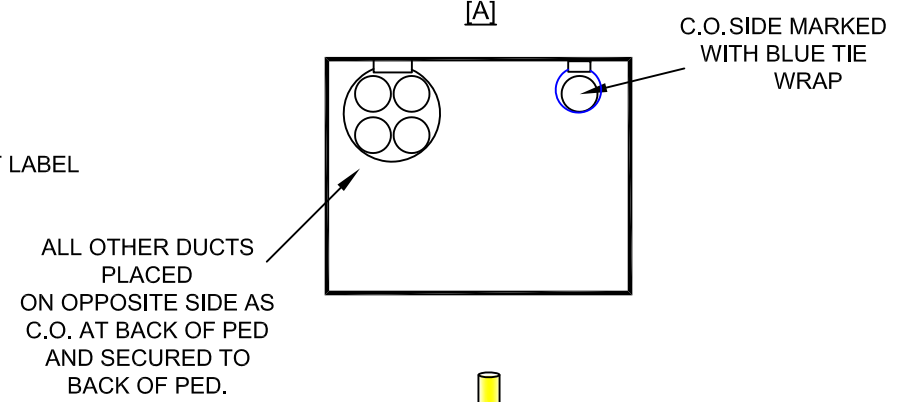
IF THERE IS MORE THEN ONE CABLE ON EACH SIDE OF THE PED YOU MUST TAPE OVER THE BONDS SO THEY CANNOT CONTACT EACH OTHER. #6 MUST HAVE A LUG CRIMPED ON THEN ATTACHED TO THE LOWER RIGHT HAND BOLT IN PED WITH THE BOND TREE.

BDO 5A UNIT DESCRIPTION:
BURIED PLANT FIBER OPTIC PEDESTAL ASSEMBLY UNIT.

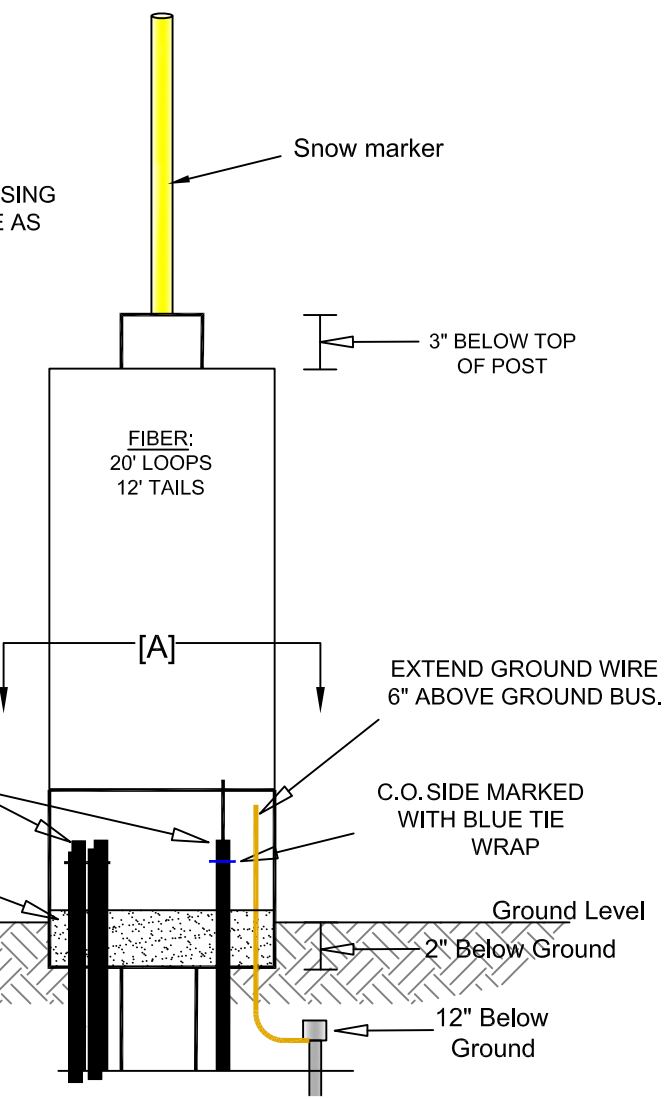
THIS CONSISTS OF A POLE-MOUNTED BURIED PLANT FIBER OPTIC PEDESTAL IN PLACE. THIS UNIT INCLUDES ALL LABOR AND MATERIAL TO INSTALL HOUSING NUMBERS, DIRECTIONAL AND OTHER MARKING OF BURIED CABLE. THIS UNIT ALSO INCLUDES ALL LABOR AND MATERIAL TO OPEN CABLE SHEATH AND INSTALL BONDING CONNECTORS AND HARNESSES IN ACCORDANCE WITH RUS SPLICING STANDARD PC-2.

THE POLE USED FOR MOUNTING THE PEDESTAL SHALL BE COMPENSATED FOR UNDER THE "BA" UNIT

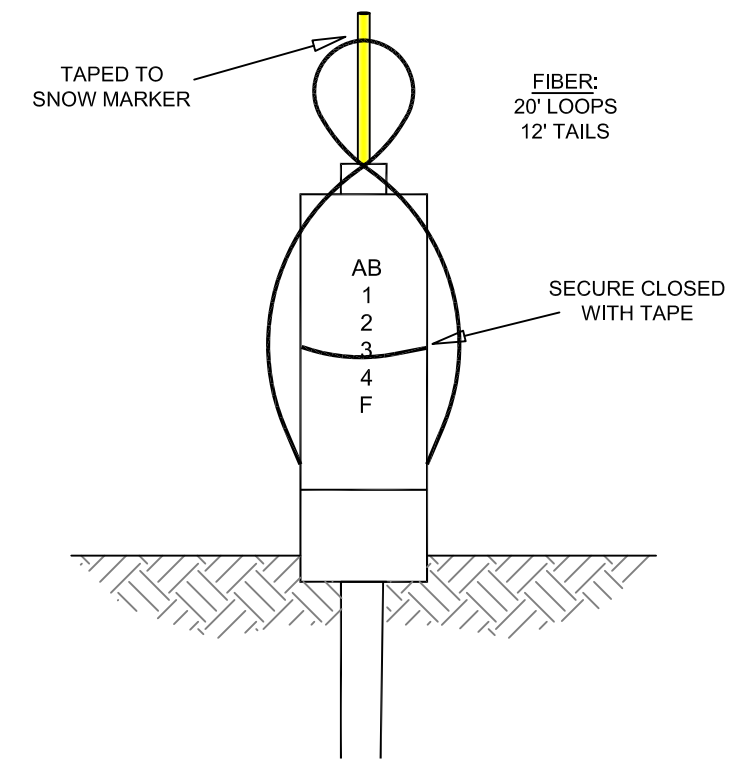
BDO 5A KIT TOP VIEW



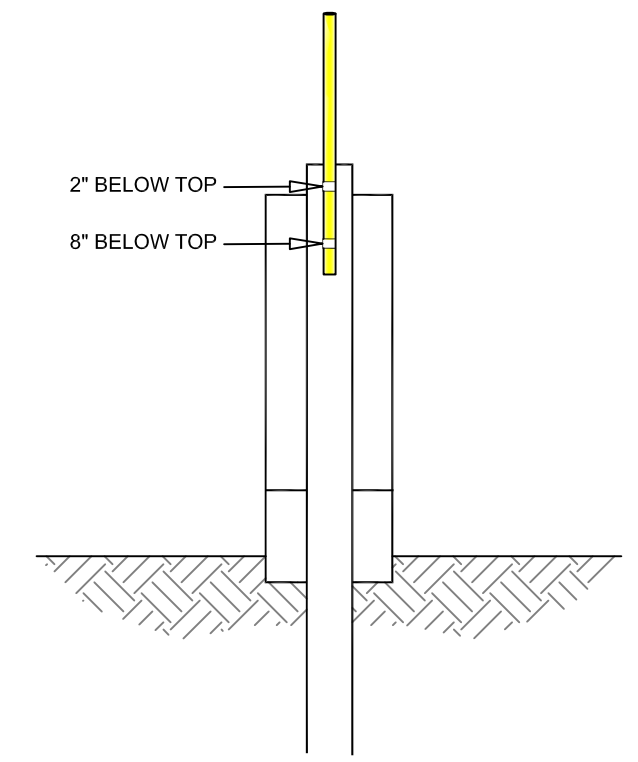
SEPARATE THE BUFFER TUBE YOUR USING ALL THE WAY TO BOND OR AS CLOSE AS POSSIBLE



BDO 5A KIT FRONT VIEW



BDO 5A KIT REAR VIEW



Revisions		Matanuska Telephone Association	
1	1-24-19	LAYOUT DETAIL	
2	3-29-19		
3	2-21-22		
X	XX-XX-XX	File: M/MTAMaps/Details	
X	XX-XX-XX	BDO 5A KIT	
X	XX-XX-XX	Scale: None	745-36300 SHEET 15 of 17

SR_FIBER OPTIC CABLE LOOPS SHALL BE 10' MEASURED FROM DUCT OPENING TO DUCT OPENING.

DO NOT PUT TAPE OR TAGS ON BARE FIBERS.

LABEL ALL TRAYS BEING USED.

ADDITIONAL TRAY BRACKET MOUNT (DO NOT PUT MORE THEN 8 TRAYS ON EACH BRACKET).

ALL DUCT SHALL EXTEND INTO PEDESTAL ABOVE THE BOTTOM TIE WRAP SADDLE.

PLACE DUCT PLUGS IN ALL DUCTS.

PLACE ALL DUCT AS FAR BACK AS POSSIBLE, CO DUCT SHALL BE ON ONE SIDE OF THE PEDESTAL. ALL OTHER DUCTS ON THE OTHER SIDE OF THE PEDESTAL

IF THERE IS MORE THEN ONE CABLE ON EACH SIDE OF THE PED YOU MUST TAPE OVER THE BONDS SO THEY CANNOT CONTACT EACH OTHER. #6 MUST HAVE A LUG CRIMPED ON THEN ATTACHED TO THE LOWER RIGHT HAND BOLT IN PED WITH THE BOND TREE.

SPIDER RIBBON - BDO_5A UNIT DESCRIPTION:
BURIED PLANT SR_FIBER OPTIC PEDESTAL ASSEMBLY UNIT.

THIS CONSISTS OF A POLE-MOUNTED BURIED PLANT FIBER OPTIC PEDESTAL IN PLACE. THIS UNIT INCLUDES ALL LABOR AND MATERIAL TO INSTALL HOUSING NUMBERS, DIRECTIONAL AND OTHER MARKING OF BURIED CABLE. THIS UNIT ALSO INCLUDES ALL LABOR AND MATERIAL TO OPEN CABLE SHEATH AND INSTALL BONDING CONNECTORS AND HARNESSES IN ACCORDANCE WITH RUS SPLICING STANDARD PC-2.

THE POLE USED FOR MOUNTING THE PEDESTAL SHALL BE COMPENSATED FOR UNDER THE "BA" UNIT

INNER SHEATH OPENING, (LEAVE ABOUT 5" OF ORANGE PULL STRINGS, WRAP THEM AROUND INNER SHEATH & TAPE).

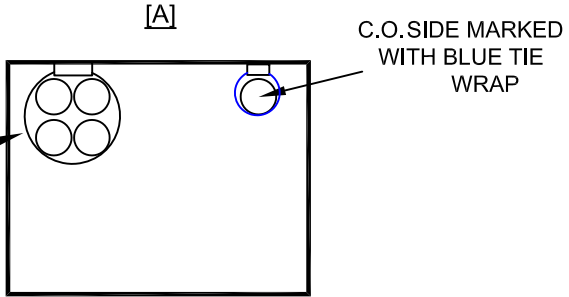
AT LEAST 3 PIECES OF VELCRO TO SECURE LOOP

ALL OTHER DUCTS PLACED ON OPPOSITE SIDE AS C.O. AT BACK OF PED AND SECURED TO BACK OF PED.

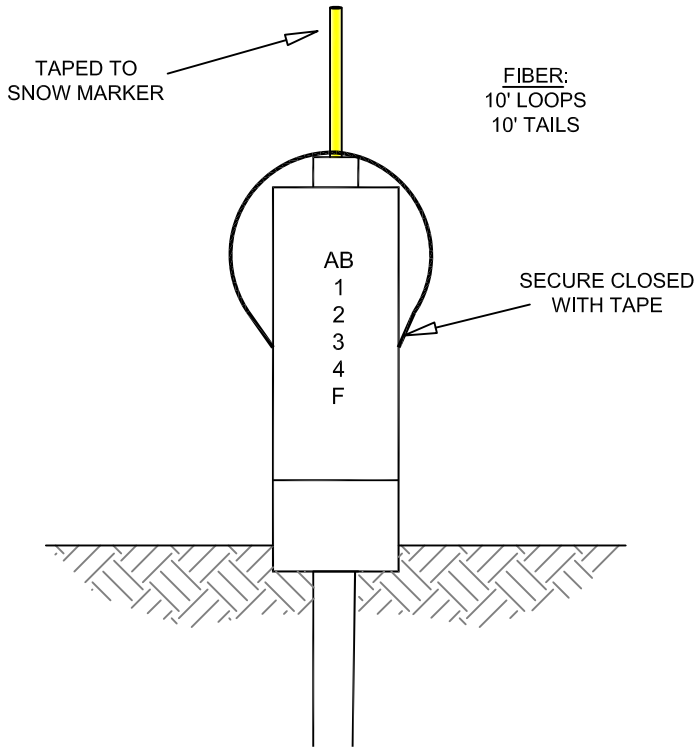
WRAP A 1" PIECE OF VELCRO AROUND RIBBON TO SECURE INTO TRAY THEN TIE WRAP. BRING ENTIRE 12 STRANDS OF RIBBON INTO TRAY

#6 GROUND ATTACHED TO BOLT

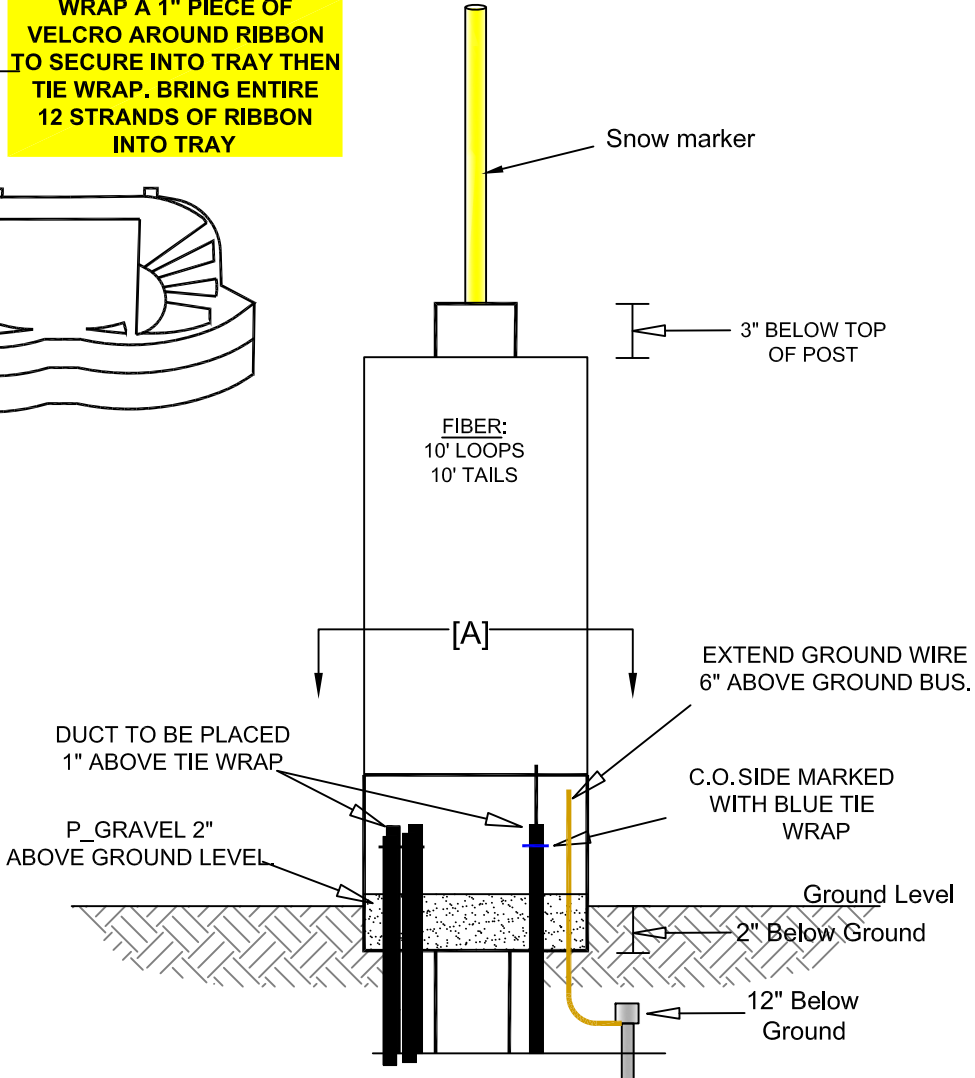
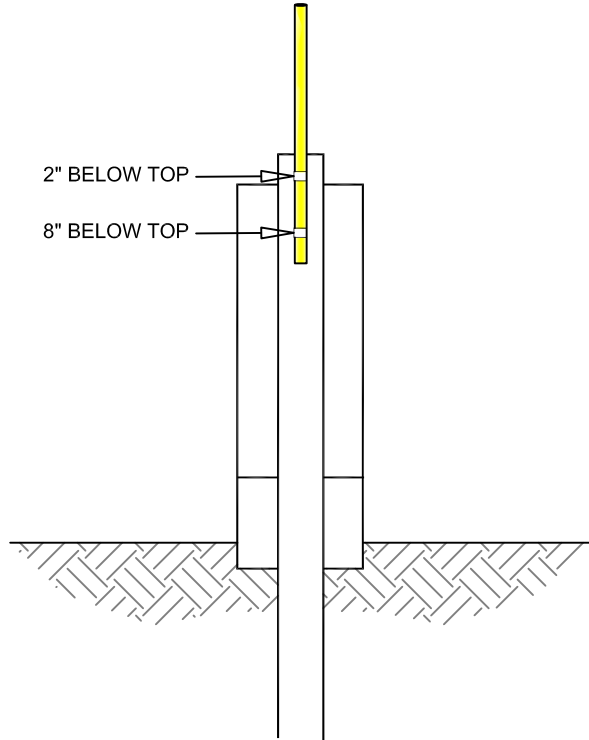
BDO 5A KIT TOP VIEW



BDO 5A KIT FRONT VIEW



BDO 5A KIT REAR VIEW



Revisions		Matanuska Telephone Association	
1	2-18-22	LAYOUT DETAIL	
X	XX-XX-XX		
X	XX-XX-XX	File: M/MTAMaps/Details BDO 5A KIT_SR Fiber	
X	XX-XX-XX		
X	XX-XX-XX	Scale: None	
X	XX-XX-XX		

160' LOOPS

BM 92-125T ITEM#17096

CARE TO BE TAKEN THAT MATERIAL
DOES NOT ENTER BOLT HOLES.
BOLTS TO BE SECURED.

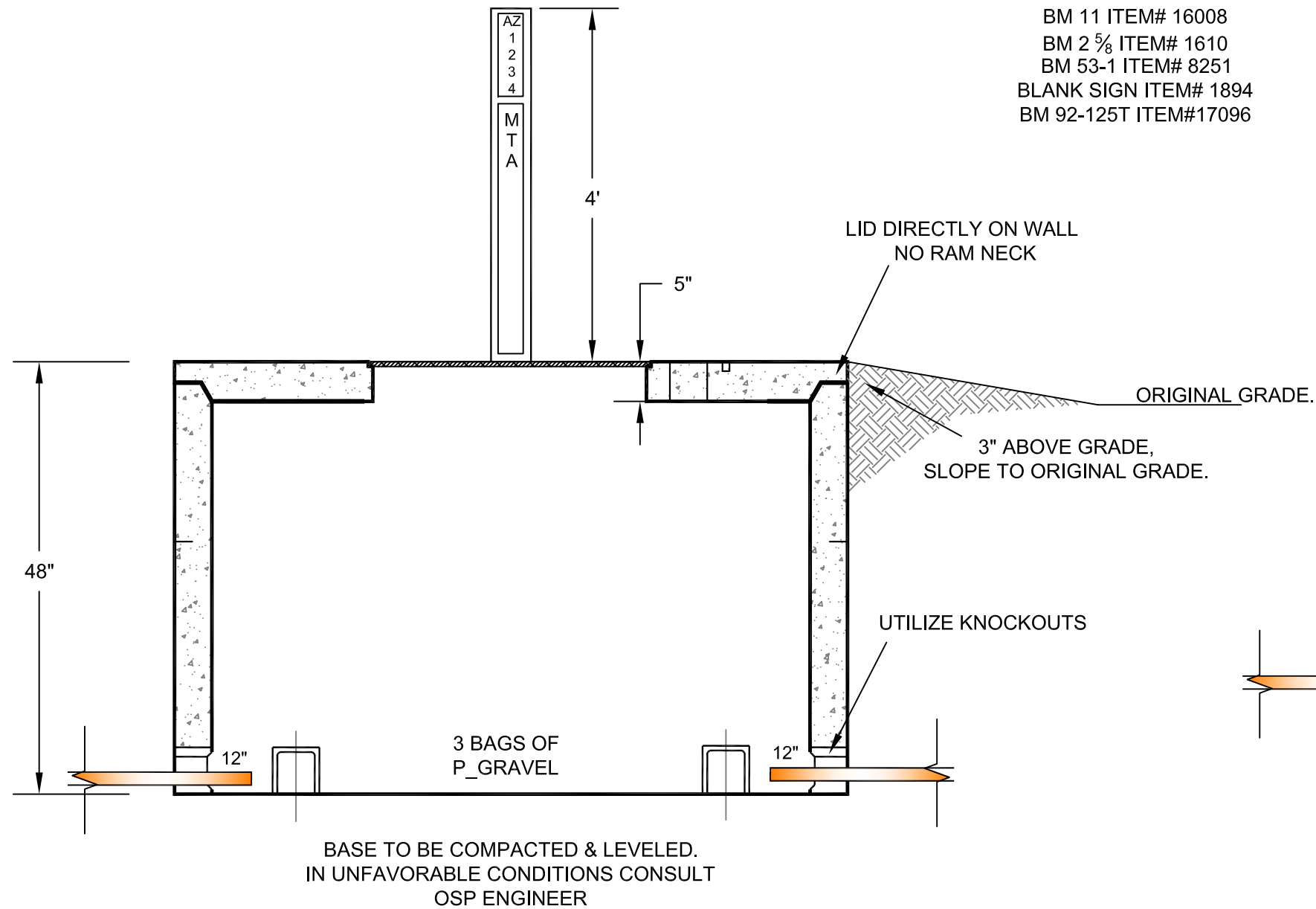
FIELD WALL

745-36300 SHEET 1d of 706

160' LOOPS

BHF 3D KIT INCLUDES:
BHF-3 VAULT ITEM# 21481
 BA 22 ITEM# 1601.
 BM 11 ITEM# 16008
 BM 2 ⁵/₈ ITEM# 1610
 BM 53-1 ITEM# 8251
 BLANK SIGN ITEM# 1894
 BM 92-125T ITEM#17096

BHF 3 PROFILE VIEW

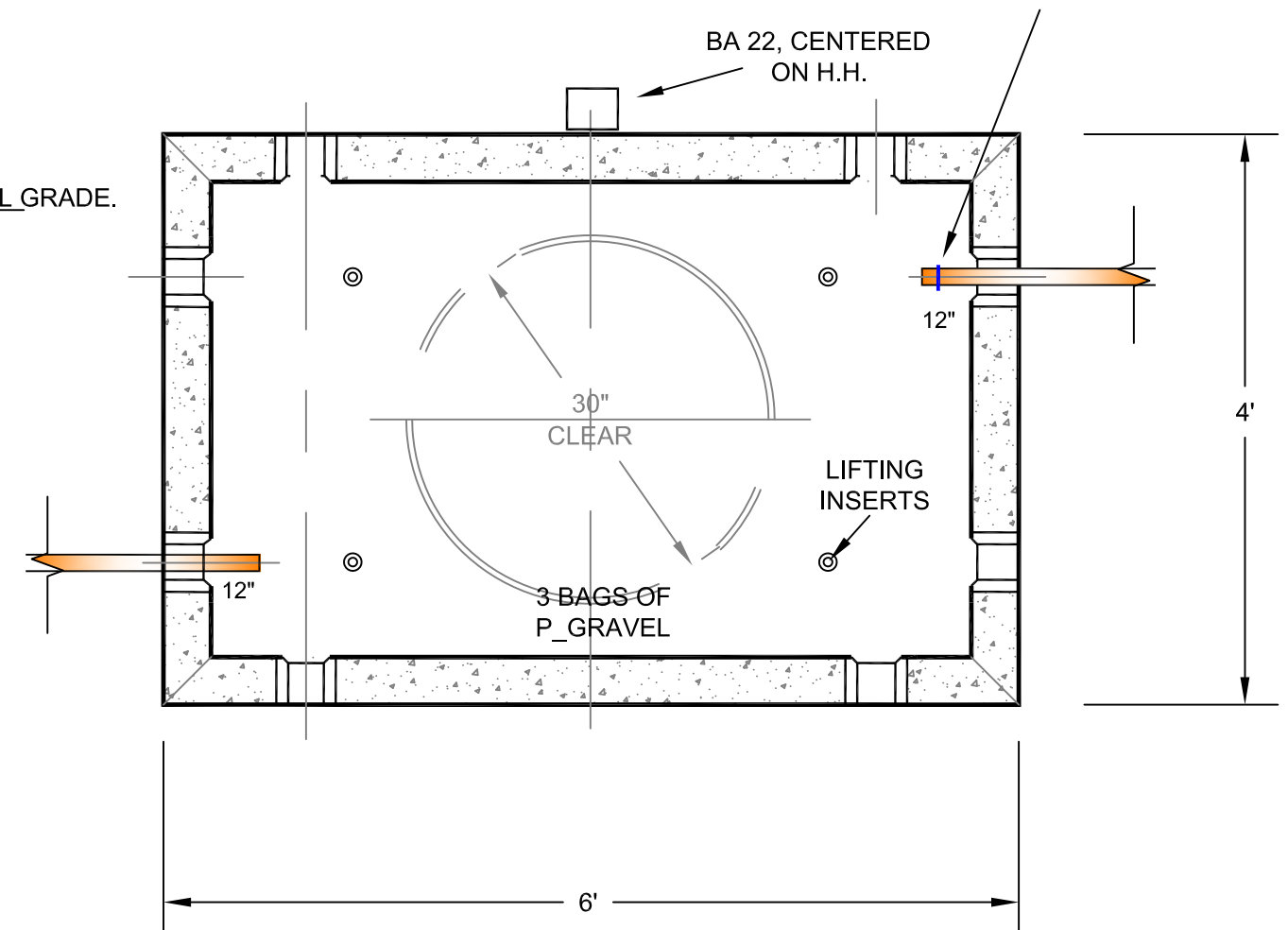


BHF 3 TOP VIEW

NOTES: DUCT TO BE PLACED AT
OPPOSING SIDES.

BRING DUCTS INTO H.H. AS
STRAIGHT AS POSSIBLE.

C.O. SIDE MARKED WTH
BLUE TIE WRAP



SEQUENTIALS:

CO WALL _____

CO SPLICE _____

FIELD SPLICE _____

FIELD WALL _____

Revisions		Matanuska Telephone Association	
1	1-24-19	LAYOUT DETAIL	
X	XX-XX-XX		
X	XX-XX-XX		
X	XX-XX-XX		
X	XX-XX-XX		
		File: M/MTAMaps/Details BHF_3 KIT	
X	XX-XX-XX	Scale: None	745-36300 SHEET 1e of 7

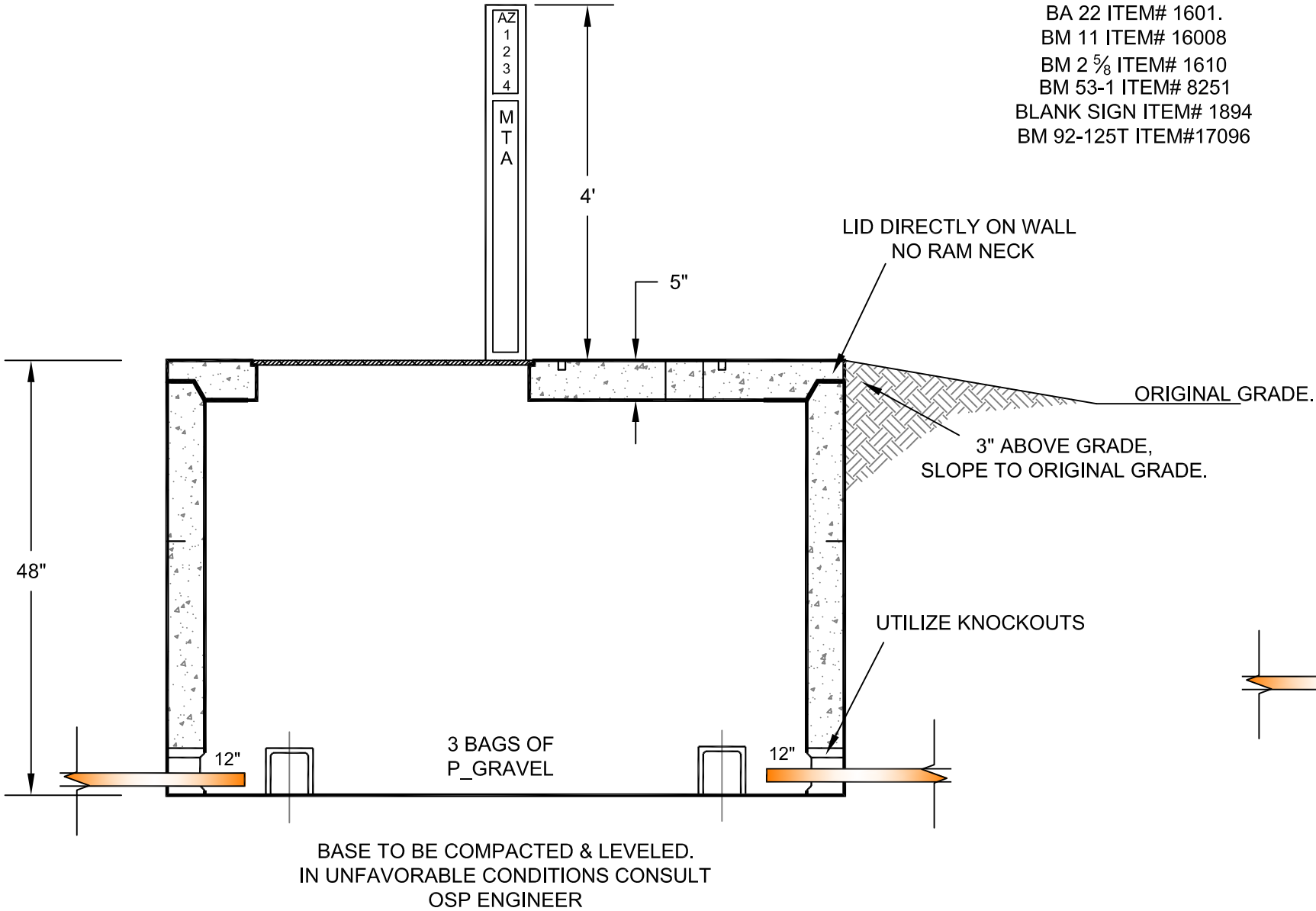
BHF 3D KIT DETAIL

FIBER LENGTHS
80' TAILS
160' LOOPS

BHF 3D KIT INCLUDES:
BHF-3 LID 432 ITEM# 25251
BHF-3 VAULT ITEM# 21481
BA 22 ITEM# 1601.
BM 11 ITEM# 16008
BM 2 5/8 ITEM# 1610
BM 53-1 ITEM# 8251
BLANK SIGN ITEM# 1894
BM 92-125T ITEM#17096

FDH NOTES: PLACE FDH ON H.H.
SO THAT THE SPLICING ACCESS
IS AWAY FROM THE CENTER OF H.H.
I & R ACCESS SHOULD FACE THE
THE CENTER OF H.H.

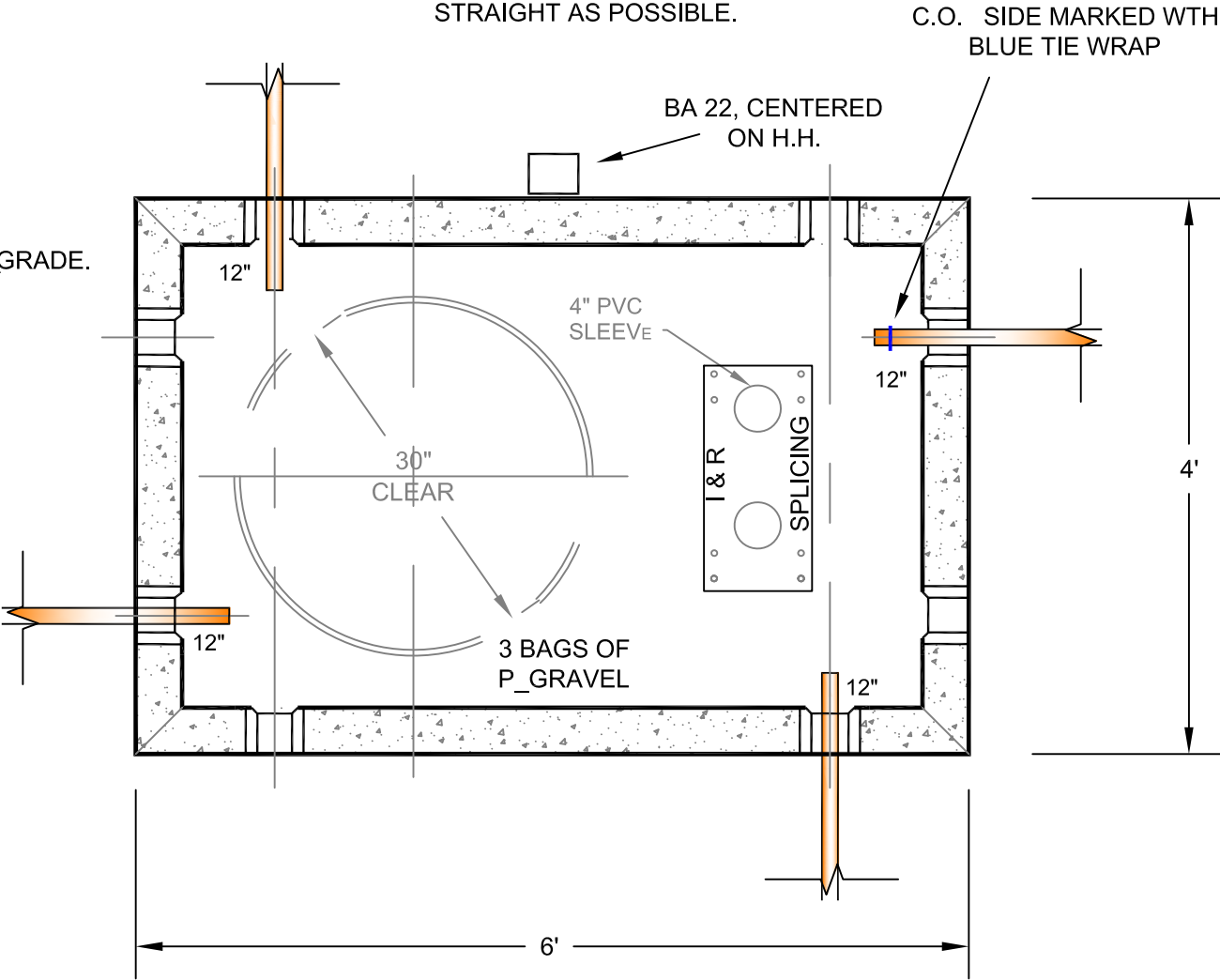
BHF 3D PROFILE VIEW



BHF 3D TOP VIEW

NOTES: DUCT TO BE PLACED AT
OPPOSING SIDES.

BRING DUCTS INTO H.H. AS
STRAIGHT AS POSSIBLE.



SEQUENTIALS:
CO WALL _____
CO SPLICE _____

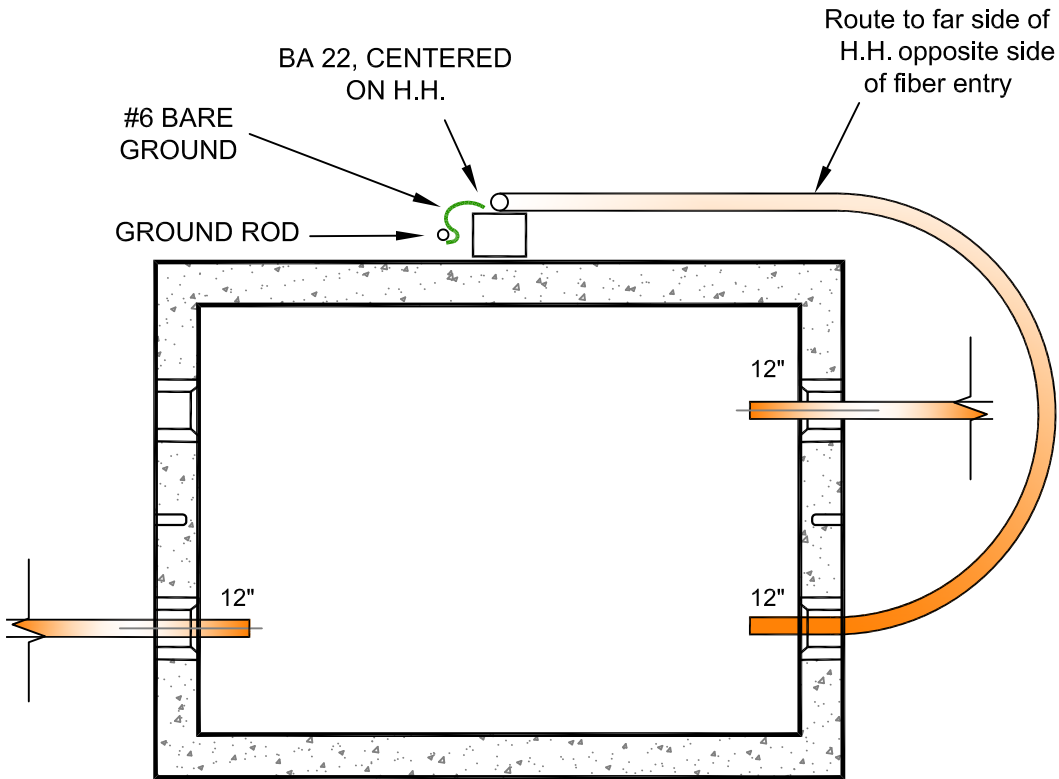
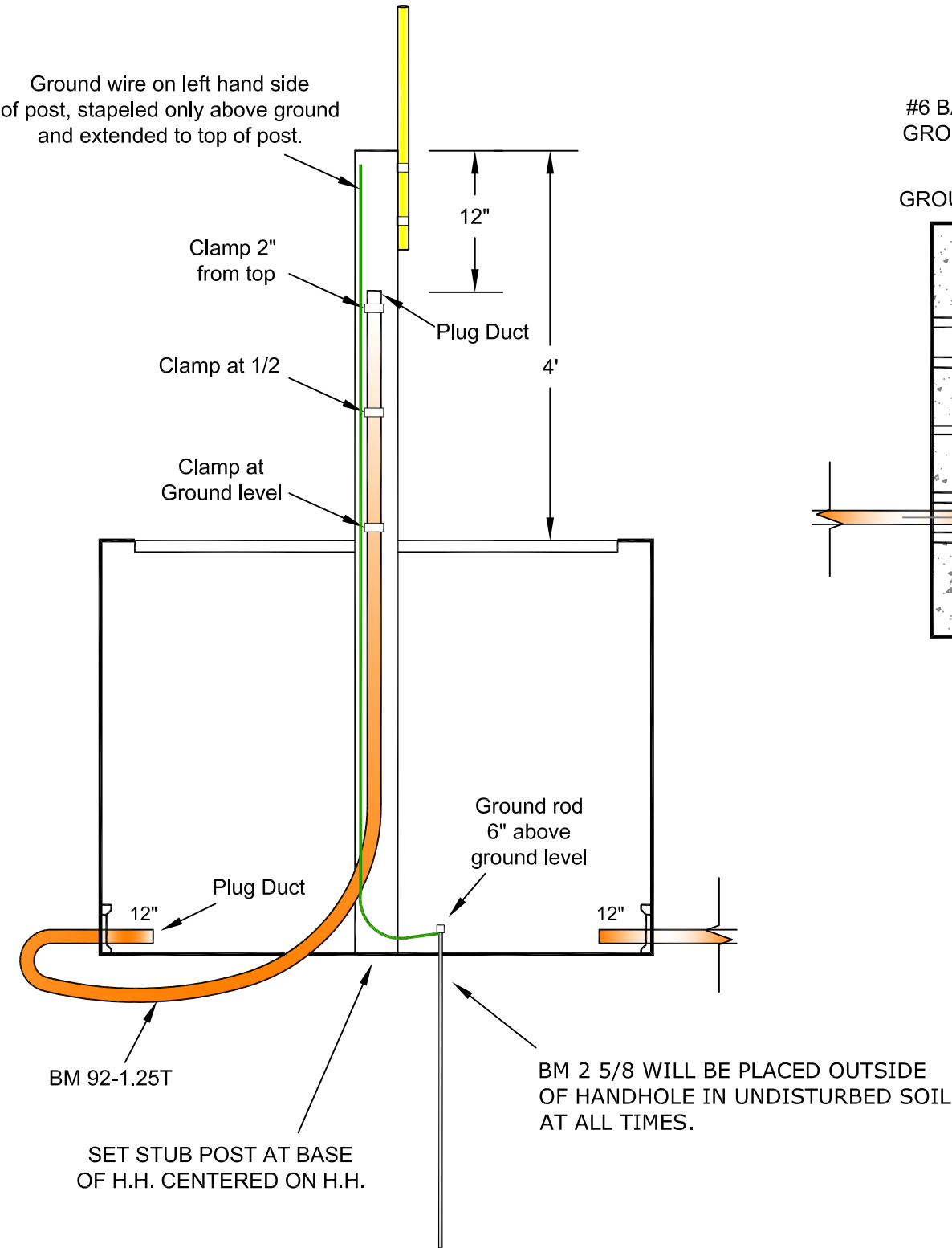
FIELD SPLICE _____
FIELD WALL _____

Revisions		Matanuska Telephone Association
1	1-24-19	
X	XX-XX-XX	LAYOUT DETAIL
X	XX-XX-XX	
X	XX-XX-XX	File: M/MTAMaps/Details
X	XX-XX-XX	BHF_3D KIT
X	XX-XX-XX	Scale: None

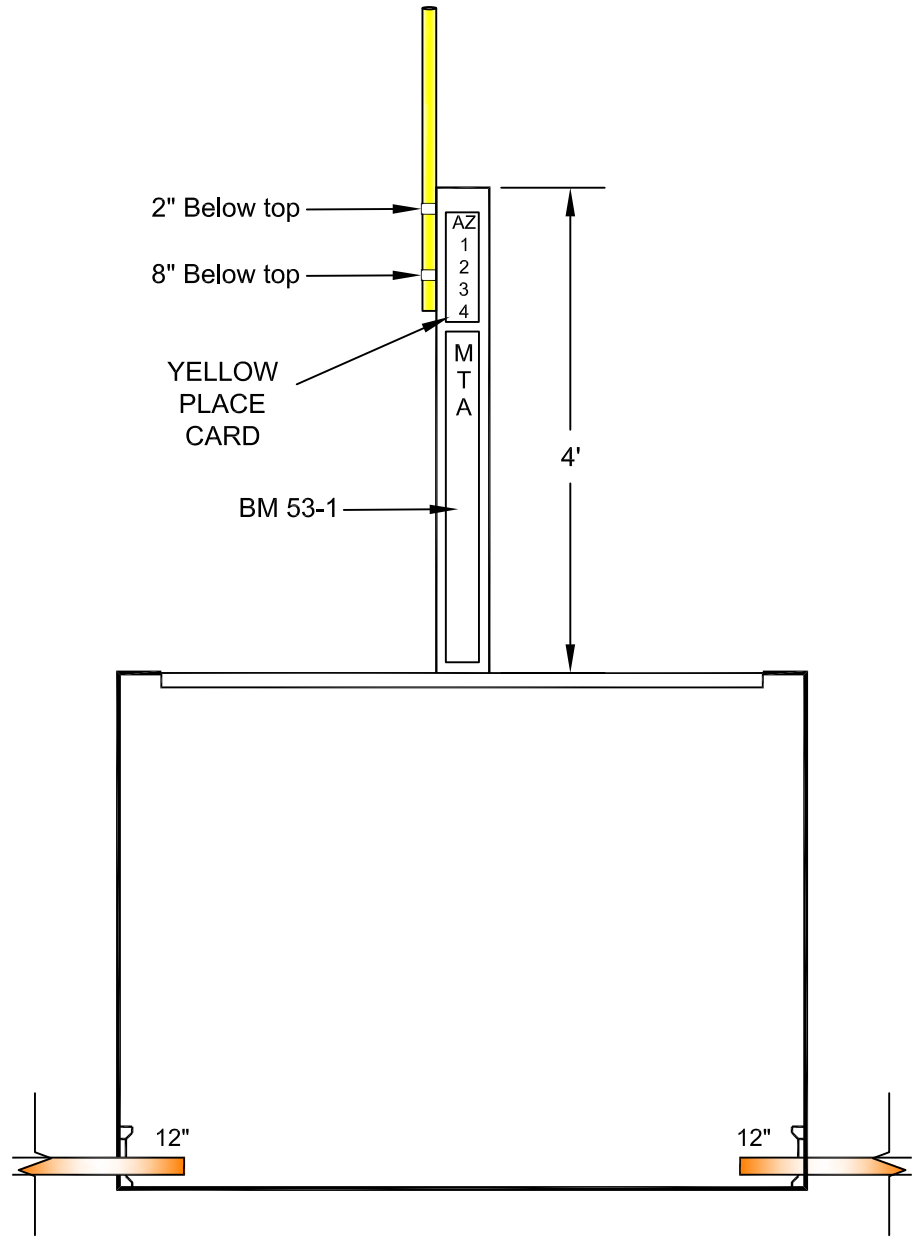
BM 40 SIP KIT DETAIL

BM 40 SIP KIT INCLUDES:
BA 22 ITEM# 1601.
BM 11 ITEM# 16008
BM 2 5/8 ITEM# 1610
BM 53-1 ITEM# 8251
BLANK SIGN ITEM# 1894
BM 92-125T ITEM#17096

BM 40 SIP KIT REAR VIEW



BM 40 SIP KIT FRONT VIEW
FACING ROAD



Revisions		Matanuska Telephone Association	
1	1-24-19	LAYOUT DETAIL	
X	XX-XX-XX	File: M/MTAMaps/Details	
X	XX-XX-XX	BM_40 SIP KIT	
X	XX-XX-XX	Scale: None	
X	XX-XX-XX	745-36300 SHEET 1g of 7	

BM 81-1 / 1E KIT **Copper Install**

[50 Pair and Smaller, 12"]
[100 Pair and Larger, 18"]
Distance from MTA
attachment to top
of riser.

12" to 18"

10'

7'

1'

Fargo

MTA Attachment

Existing Standoff

Bug Nut

Deltec w/spacer

PVC

Galv. Steel

Ground Level

Bottom piece always Galv.
All other sticks are PVC.
Each piece of 2" / 4" pipe
will have 1 unistrut and clamp
except bottom stick (Galv.) will
have 2.

#6 Bare Copper from Pole ground
to ground bushing on riser (only
on poles w/pole ground)

BM 81-1 KIT:

Bushing; Grounding insul 2 inch.
Brackets; Standoff 8.5 inch.
Clamps; Pipe universal 2 inch.
Conduit Galv; Galv. IMC 2in. X 10ft.
PVC; PVC 2in. x 10ft. SCH 40.
Screws; Lag, Hex HD, 3/8 x 4in.

BM 84-1 KIT:

Bushing; Grounding insul 4 inch.
Brackets; Standoff 15 inch.
Clamps; Pipe universal 4 inch.
Conduit Galv; Galv. IMC 4in. X 10ft.
PVC; PVC 4in. x 10ft. SCH 40.
Screws; Lag, Hex HD, 3/8 x 4in.

BM 81-1E KIT:

Bushing; Grounding insul 2 inch.
Clamps; Pipe universal 2 inch.
Conduit Galv; Galv. IMC 2in. X 10ft.
PVC; PVC 2in. x 10ft. SCH 40.

BM 84-1E KIT:

Bushing; Grounding insul 4 inch.
Clamps; Pipe universal 4 inch.
Conduit Galv; Galv. IMC 4in. X 10ft.
PVC; PVC 4in. x 10ft. SCH 40.

Revisions	
1	2-8-19
X	XX-XX-XX
X	XX-XX-XX
X	XX-XX-XX
X	XX-XX-XX
X	XX-XX-XX

Matanuska Telephone Association

LAYOUT DETAIL

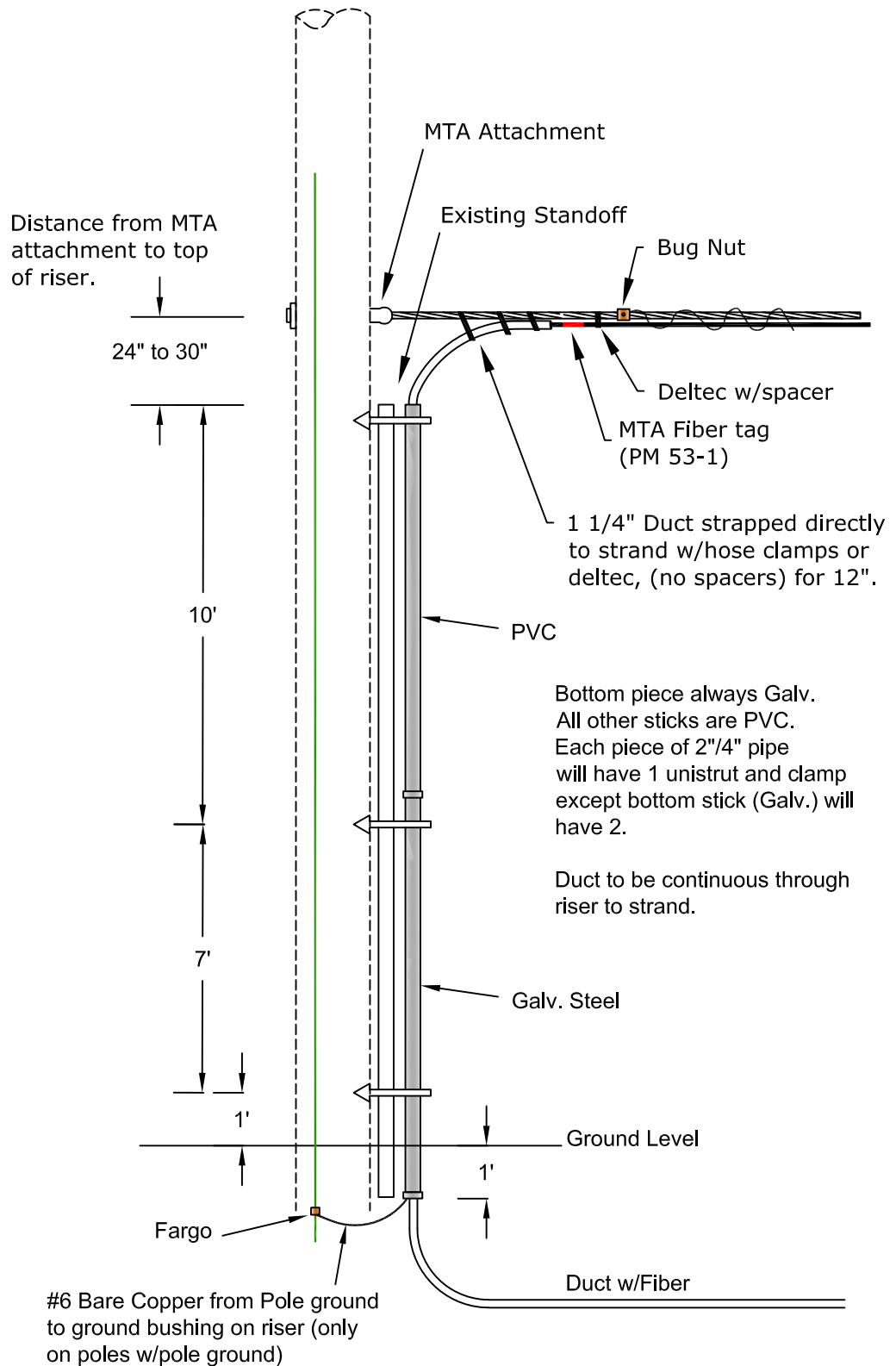
File: M/MTAMaps/Details

BM_81 KITS (COPPER)

Scale: None

745-36300 SHEET 1125#069

BM 81-1 / 1E KIT **Fiber Install**



BM 81-1 KIT:
 Bushing; Grounding insul 2 inch.
 Brackets; Standoff 8.5 inch.
 Clamps; Pipe universal 2 inch.
 Conduit Galv; Galv. IMC 2in. X 10ft.
 PVC; PVC 2in. x 10ft. SCH 40.
 Screws; Lag, Hex HD, 3/8 x 4in.

BM 84-1 KIT:
 Bushing; Grounding insul 4 inch.
 Brackets; Standoff 15 inch.
 Clamps; Pipe universal 4 inch.
 Conduit Galv; Galv. IMC 4in. X 10ft.
 PVC; PVC 4in. x 10ft. SCH 40.
 Screws; Lag, Hex HD, 3/8 x 4in.

BM 81-1E KIT:
 Bushing; Grounding insul 2 inch.
 Clamps; Pipe universal 2 inch.
 Conduit Galv; Galv. IMC 2in. X 10ft.
 PVC; PVC 2in. x 10ft. SCH 40.

BM 84-1E KIT:
 Bushing; Grounding insul 4 inch.
 Clamps; Pipe universal 4 inch.
 Conduit Galv; Galv. IMC 4in. X 10ft.
 PVC; PVC 4in. x 10ft. SCH 40.

#6 Bare Copper from Pole ground
 to ground bushing on riser (only
 on poles w/pole ground)

Revisions	
1	2-8-19
X	XX-XX-XX
X	XX-XX-XX
X	XX-XX-XX
X	XX-XX-XX
X	XX-XX-XX

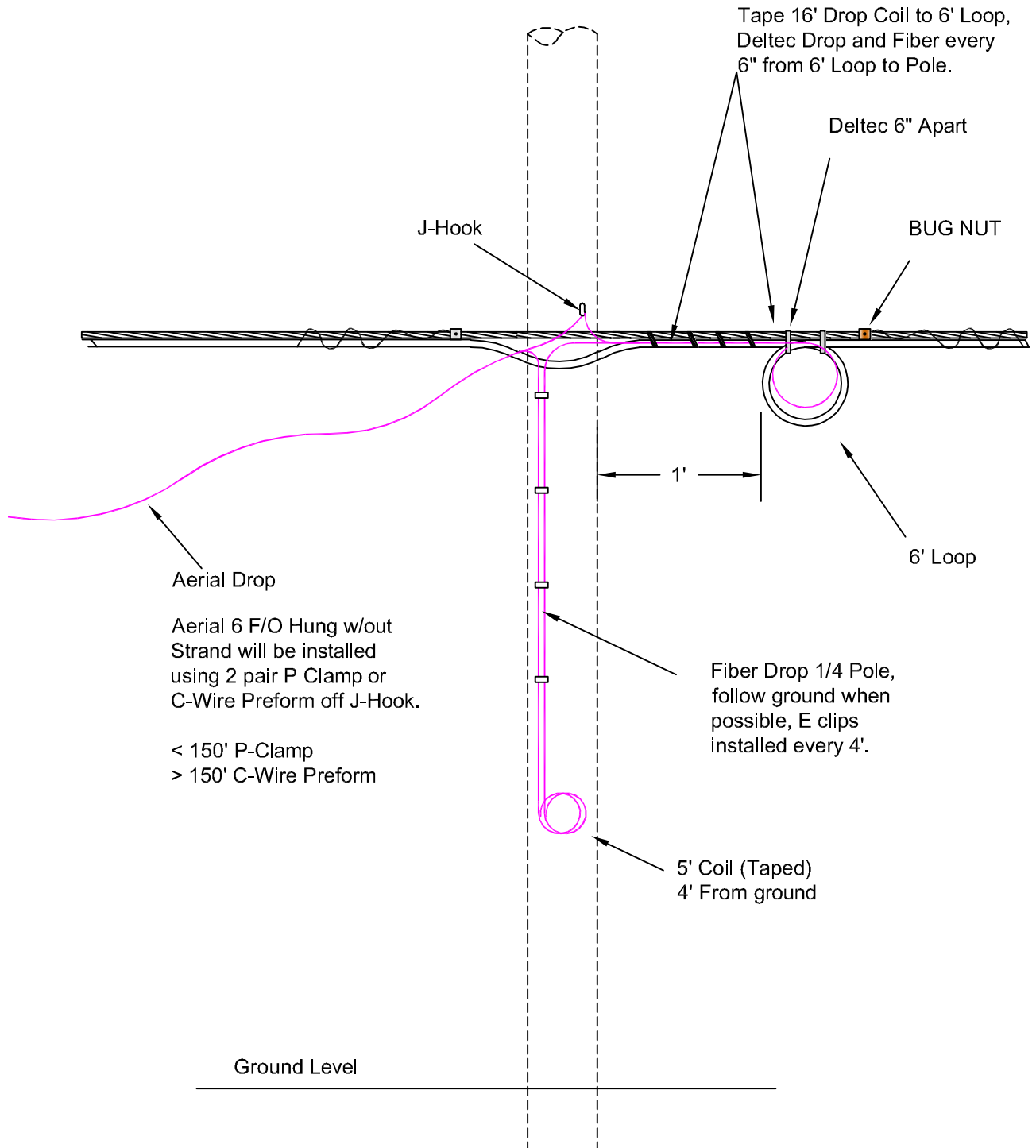
Matanuska Telephone Association

LAYOUT DETAIL

File: M/MTAMaps/Details
 BM_81 KITS (FIBER)

Scale: None

745-36300 SHEET 11 of 7



Revisions	
1	1-24-19
X	XX-XX-XX
X	XX-XX-XX
X	XX-XX-XX
X	XX-XX-XX
X	XX-XX-XX

Matanuska Telephone Association

LAYOUT DETAIL

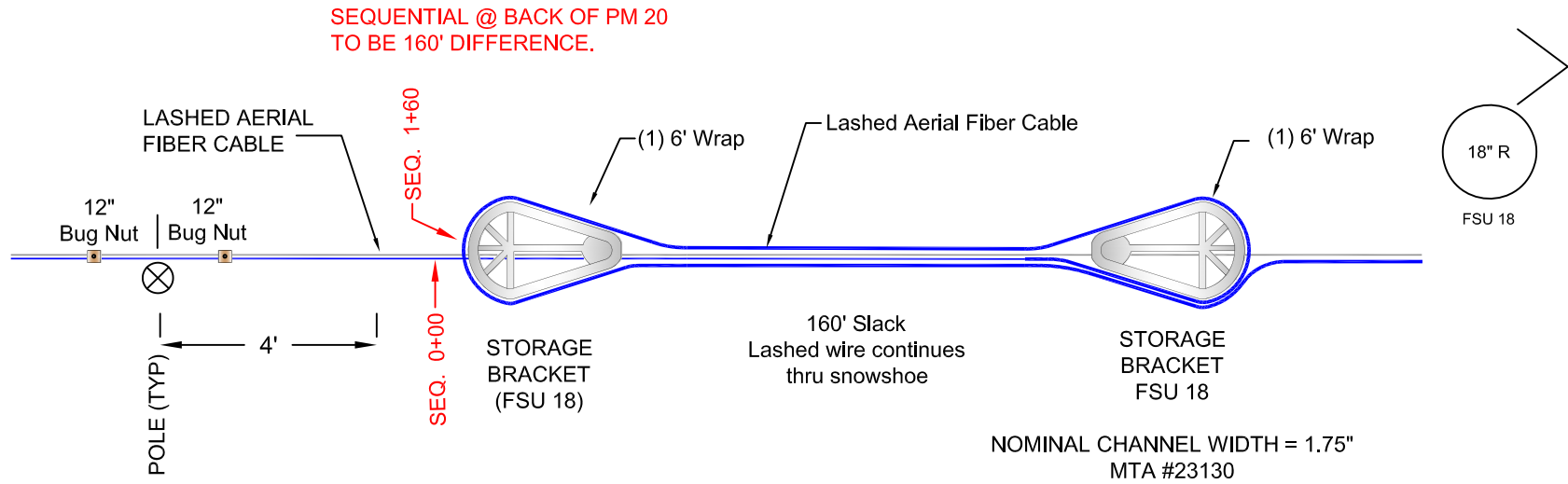
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HRO_5

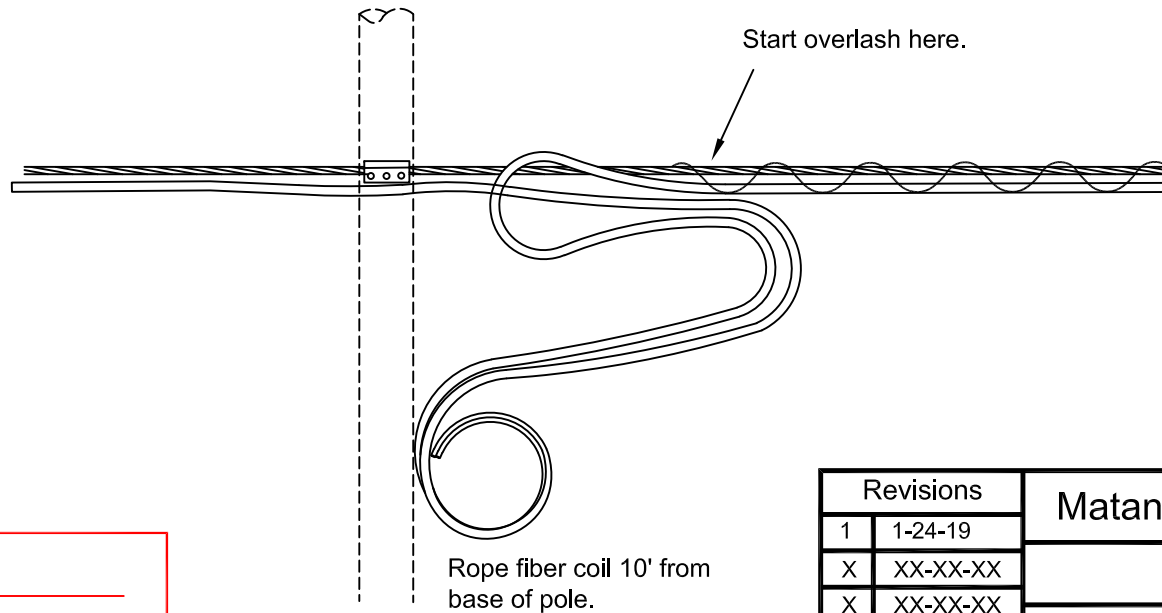
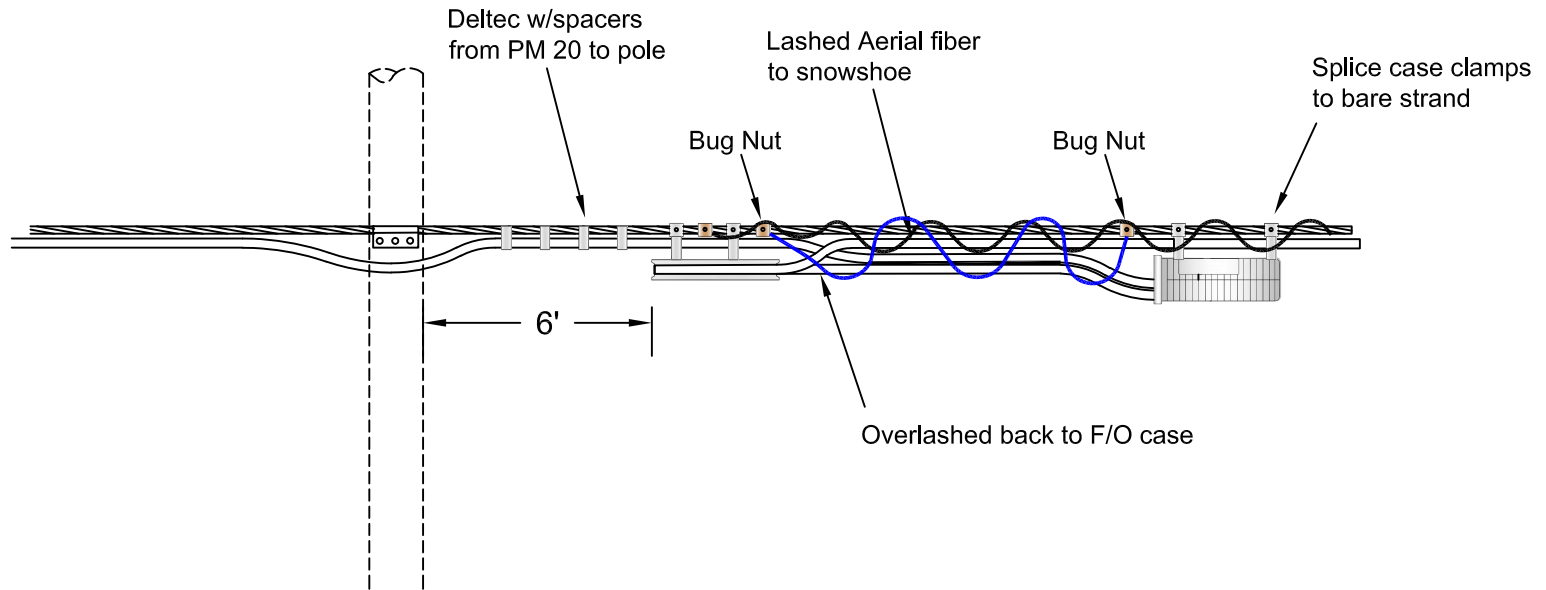
Scale: None

745-36300 SHEET 1254069

PM_20
FIBER OPTIC AERIAL SLACK
STORAGE UNIT LOOP



Revisions		Matanuska Telephone Association	
1	1-24-19	LAYOUT DETAIL	
X	XX-XX-XX		
X	XX-XX-XX	File: M/MTAMaps/Details PM_20 Slack Storage Loop	
X	XX-XX-XX		
X	XX-XX-XX		
X	XX-XX-XX	Scale: None	745-36300 SHEET 1k25-069



SEQUENTIALS:

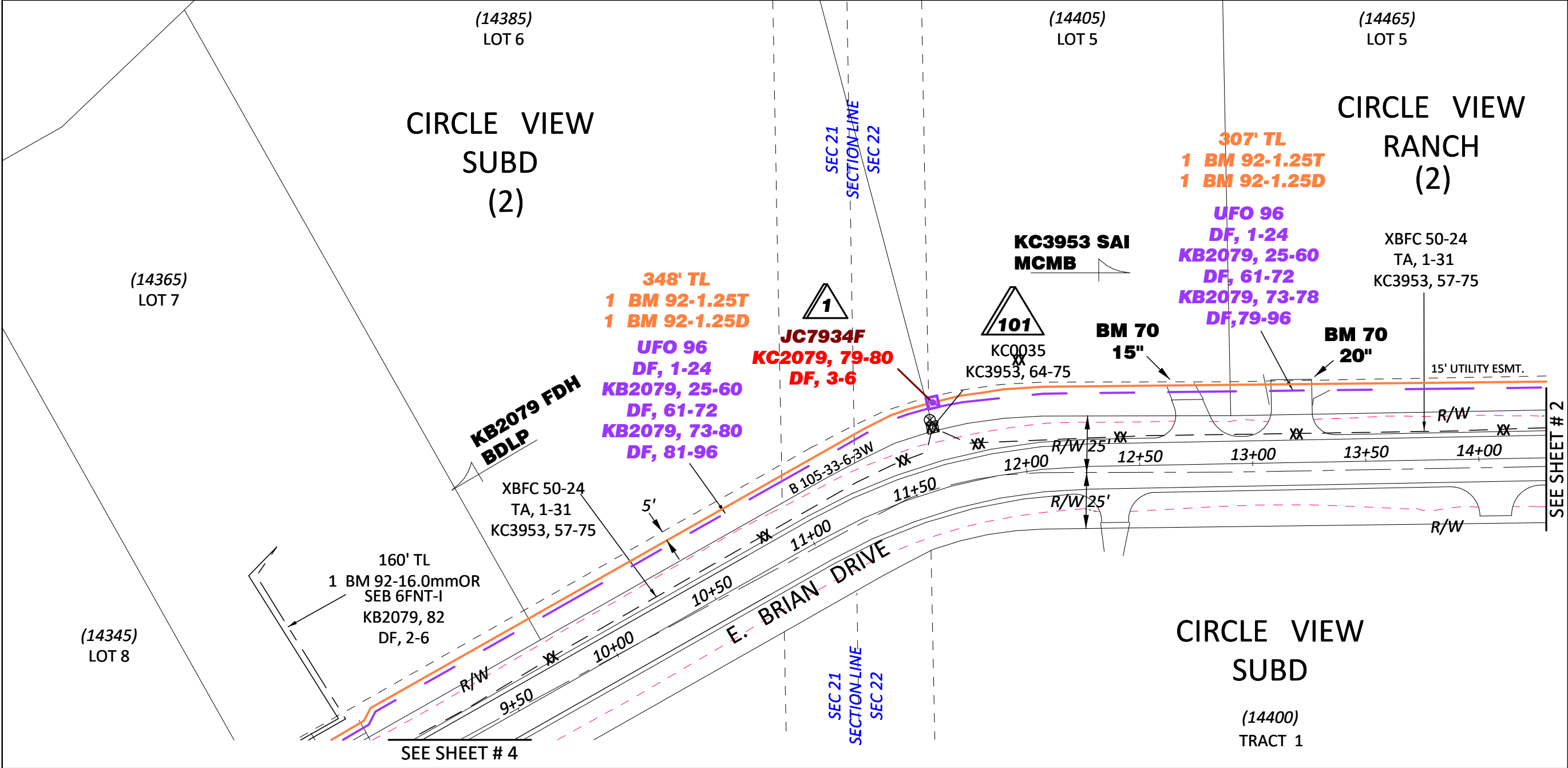
CO WALL _____

CO END _____

FIELD END _____

FIELD WALL _____

Revisions		Matanuska Telephone Association	
1	1-24-19	LAYOUT DETAIL	
X	XX-XX-XX		
X	XX-XX-XX	File: M/MTAMaps/Details PM_20 Splice_Tail	
X	XX-XX-XX		
X	XX-XX-XX		
X	XX-XX-XX	Scale: None	745-36300 SHEET 11 of 25-069



WO NUMBER:	745-36300
ENGINEER:	DAVID BLEHM
CSA:	MCMB
TWN:	17N
RNG:	02E
SEC:	21 / 22
GRID:	NE3218
MSB or MOA:	PA 13 / PA 14
CREATION DATE:	

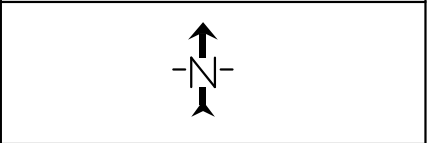
NOTES:
Scale: 1 TO 50

CONSTRUCTION NOTES:

EXPRESS 1 BM 92-1.25D TO END OF LINES.

UFO 96 & 24, LEAVE 20' LOOPS, UFO 6 LEAVE 12' LOOPS.

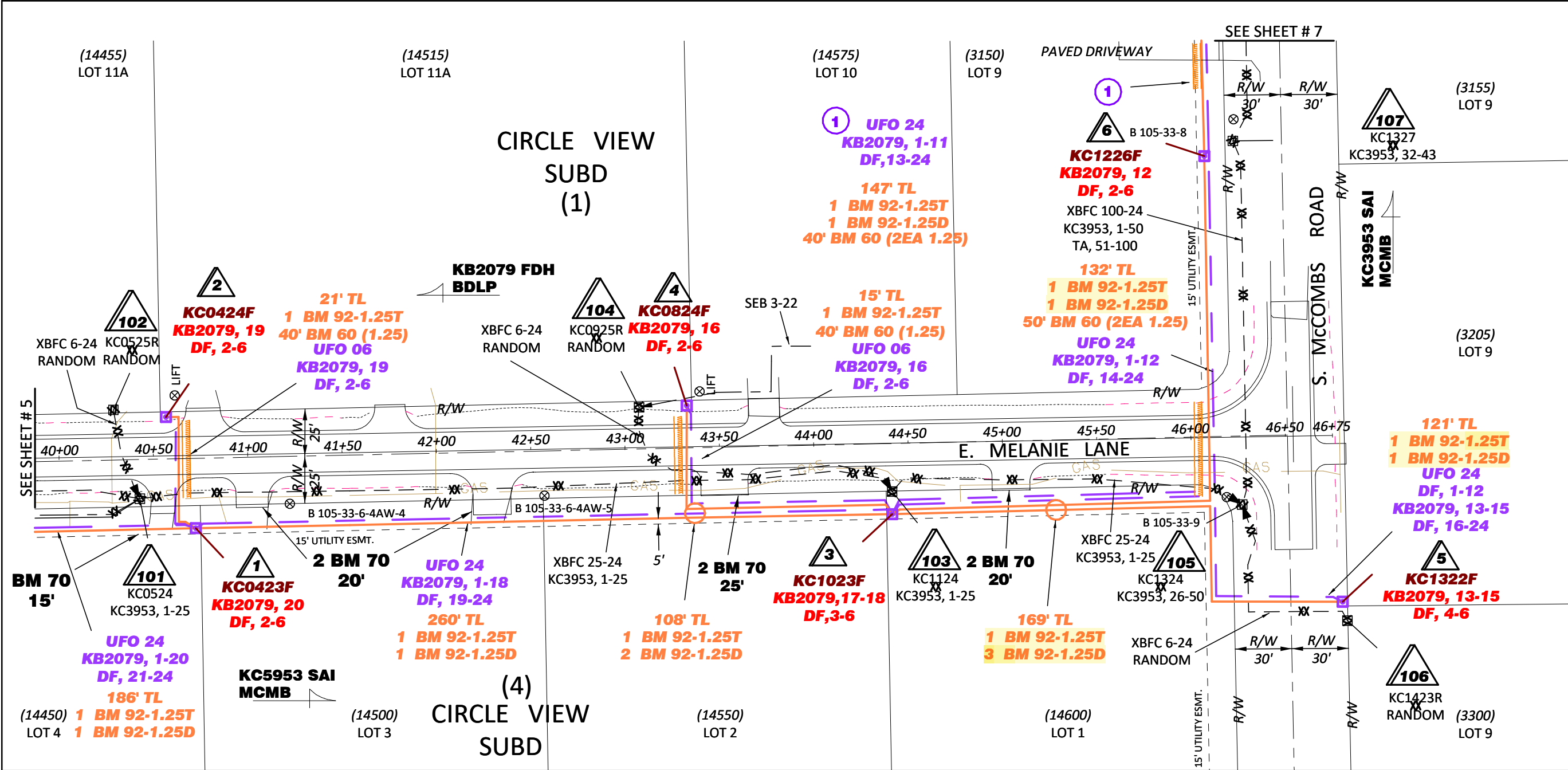
**QUESTIONS:
CONTACT DAVID BLEHM
@ 907-795-8161**



WL	UNIT DESC	QUANTITY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY
101	XBFC 50-24	312'	0	0	0	0	0	0	0	0		
1	BDO-5A KIT	1	PEDS-F 1	0	0	0	0	0	0	0		
101	XBD	1	XBA 1	WBFC 10	0	0	0	0	0	0		
1	UFO 96	'	BM 70 20	BM 70 15	0	0	0	0	0	0		
1	TL	307'	BM 92-1.25T 317	*B* BM 92-1.25D 317								
1	HO-1	2	0	0	0	0	0	0	0	0		
1	FS-6	1	0	0	0	0	0	0	0	0		
101	XBM 30	1	0	0	0	0	0	0	0	0		

Filename:
SS_745-36300 SHEET 3 OF 7
Staked By: AD\blehm
Last Saved: 5/12/2025

MTA



WO NUMBER:
745-36300

ENGINEER:
DAVID BLEHM

CSA: MCMB

TWN: 17N

RNG: 02E

SEC: 21 / 22

GRID: NE3218

MSB or MOA: PA 13 / PA 14

CREATION DATE:

NOTES:
Scale: 1 TO 60

CONSTRUCTION NOTES:

EXPRESS 1 BM 92-1.25D
TO END OF LINES.

UFO 96 & 24, LEAVE 20'
LOOPS, UFO 6 LEAVE 12'
LOOPS.

QUESTIONS:
CONTACT DAVID BLEHM
@ 907-795-8161

WL	UNIT DESC	QUANTITY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY
101	XBFC 25-24	514'	0	0	0	0	0	0	0	0		
102	XBFC 6-24	53'	0	0	0	0	0	0	0	0		
103	XBFC 25-24	366'	0	0	0	0	0	0	0	0		
104	XBFC 6-24	137'	0	0	0	0	0	0	0	0		
105	XBFC 25-24	178'	0	0	0	0	0	0	0	0		
106	XBFC 6-24	118'	0	0	0	0	0	0	0	0		
107	XBFC 100-24	182'	0	0	0	0	0	0	0	0		
105	XBD	1	XBA	1	0	0	0	0	0	0		
1	BDO-5A KIT	1	BM 2 5/8 1	PEDS-F 1	0	0	0	0	0	0		
101	XBD	1	XBA 1	WBFC 10	0	0	0	0	0	0		

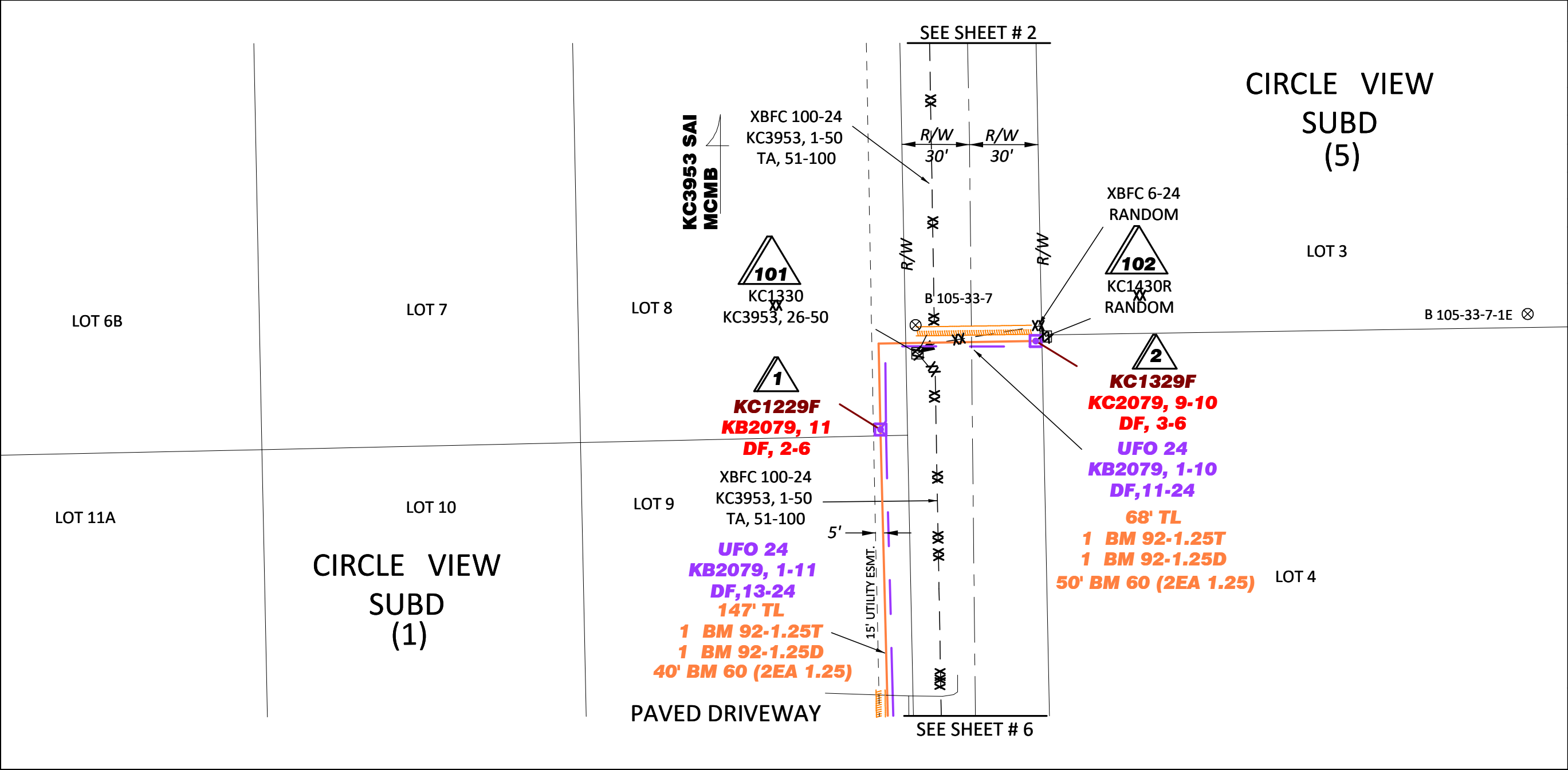
Filename:
SS_745-36300 SHEET 6 OF 7

Staked By: AD\blehm

Last Saved: 5/15/2025

MTA

WL	UNIT DESC	QUANTITY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	WO NUMBER: 745-36300	
102	XBD	1	XBA 1	WBFC 10	0	0	0	0	0	0	0		ENGINEER: DAVID BLEHM	
103	XBD	1	XBA 1	WBFC 10	0	0	0	0	0	0	0		CSA: MCMB	
104	XBD	1	XBA 1	WBFC 10	0	0	0	0	0	0	0		TWN: 17N	
106	XBD	1	XBA 1	WBFC 10	0	0	0	0	0	0	0		RNG: 02E	
107	XBD	1	XBA 1	WBFC 10	0	0	0	0	0	0	0		SEC: 21 / 22	
2	BDO-5A KIT	1	BM 2 5/8 1	PEDS-F 1	0	0	0	0	0	0	0		GRID: NE3218	
3	BDO-5A KIT	1	BM 2 5/8 1	PEDS-F 1	0	0	0	0	0	0	0		MSB or MOA: PA 13 / PA 14	
4	BDO-5A KIT	1	BM 2 5/8 1	PEDS-F 1	0	0	0	0	0	0	0		CREATION DATE:	
5	BDO-5A KIT	1	BM 2 5/8 1	PEDS-F 1	0	0	0	0	0	0	0		NOTES: Scale: 1 TO 60	
6	BDO-5A KIT	1	PEDS-F 1		0	0	0	0	0	0	0			
1	UFO 24	207'	BM 70 15	BM 70 15	0	0	0	0	0	0	0			
2	UFO 06	92'	0	0	0	0	0	0	0	0	0			
3	UFO 24	308'	BM 70 20	BM 70 20	0	0	0	0	0	0	0			
4	UFO 06	197'	BM 70 25	0	0	0	0	0	0	0	0			
5	UFO 24	308'	BM 70 20	0	0	0	0	0	0	0	0			
6	UFO 24	372'	0	0	0	0	0	0	0	0	0			
1	TL	186'	BM 92-1.25T 196	*B* BM 92-1.25D 196										
2	TL	21'	BM 92-1.25T 31											
2	BM 60 (1.25)	40'												
3	TL	368'	BM 92-1.25T 378	*B* BM 92-1.25D 378										
4	BM 60 (1.25)	40'												
4	TL	108'	BM 92-1.25D 118											
4	TL	15'	BM 92-1.25T 25											
5	TL	290'	BM 92-1.25T 300	*B* BM 92-1.25D 300									⌋⌋⌋ ⌋⌋⌋ ⌋⌋⌋ ⌋ Filename: SS_745-36300 SHEET 6a OF 7 Staked By: AD\dlehm Last Saved: 5/15/2025 MTA  <td data-kind="ghost"></td>	
6	TL	301'	BM 92-1.25T 311	*B* BM 92-1.25D 311										
6	BM 60 (2EA 1.25)	50'												
1	HO-1	2	0	0	0	0	0	0	0	0	0			
3	HO-1	18		0	0	0	0	0	0	0	0			
5	HO-1	2		0	0	0	0	0	0	0	0			
6	HO-1	2	0	0	0	0	0	0	0	0	0			
1	FS-6	1	0	0	0	0	0	0	0	0	0			
101	XBM 30	1	0	0	0	0	0	0	0	0	0			
102	XBM 30	1	0	0	0	0	0	0	0	0	0			
103	XBM 30	1	0	0	0	0	0	0	0	0	0			
104	XBM 30	1	0	0	0	0	0	0	0	0	0			
			0	0	0	0	0	0	0	0	0			
			0	0	0	0	0	0	0	0	0			
			0	0	0	0	0	0	0	0	0			
													745-36300 SHEET 6a OF 7	



WO NUMBER:	745-36300
ENGINEER:	DAVID BLEHM
CSA:	MCMB
TWN:	17N
RNG:	02E
SEC:	21 / 22
GRID:	NE3218
MSB or MOA:	PA 13 / PA 14
CREATION DATE:	

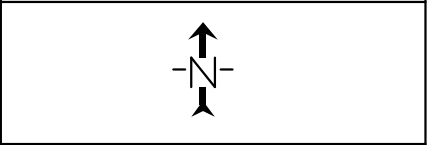
NOTES:
Scale: 1 TO 50

CONSTRUCTION NOTES:

EXPRESS 1 BM 92-1.25D TO END OF LINES.

UFO 96 & 24, LEAVE 20' LOOPS, UFO 6 LEAVE 12' LOOPS.

**QUESTIONS:
CONTACT DAVID BLEHM
@ 907-795-8161**



WL	UNIT DESC	QUANTITY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY	UNIT/QTY
101	XBFC 100-24	324'	0	0	0	0	0	0	0	0	
102	XBFC 6-24	51'	0	0	0	0	0	0	0	0	
107	XBFC 100-24	211'	0	0	0	0	0	0	0	0	
1	BDO-5A KIT	1	BM 2 5/8 1	PEDS-F 1	0	0	0	0	0	0	
101	XBD	1	XBA 1	WBFC 5	0	0	0	0	0	0	
102	XBD	1	XBA 1	WBFC 20	0	0	0	0	0	0	
2	BDO-5A KIT	1	BM 2 5/8 1	PEDS-F 1	0	0	0	0	0	0	
1	UFO 24	209'	BM 70 20	0	0	0	0	0	0	0	
2	UFO 24	114'	0	0	0	0	0	0	0	0	
1	TL	147'	BM 92-1.25T 157	*B* BM 92-1.25D 157							

Filename:
SS_745-36300 SHEET 7 OF 7
Staked By: AD\dbleh
Last Saved: 5/12/2025

MTA

