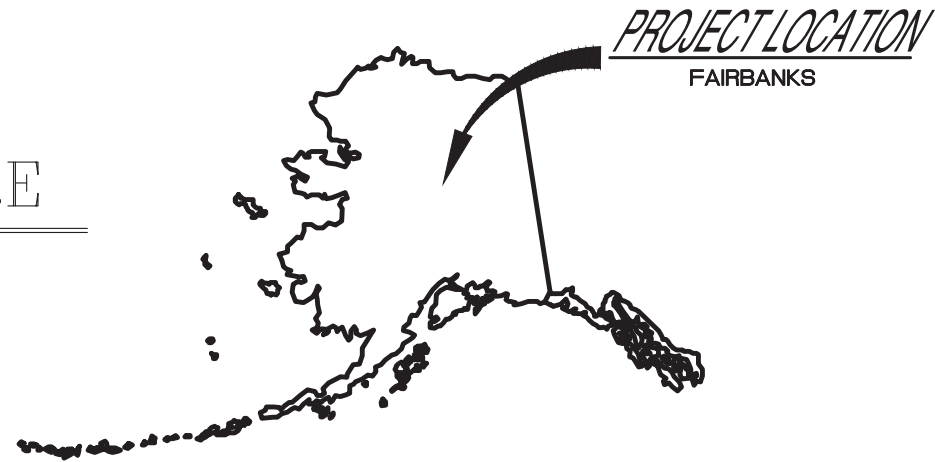


W.O. 023-1026

FBKS MDU 3000 DAVIS RD-JILLIAN SQUARE

Known utility lines are shown in approximate locations only. All exact locations to be determined by the contractor during construction.



Capital	Unit	Engineered	Project#
		0	023-1026
LINE	BD5A	1	023-1026
LINE	BFO24	620	023-1026
LINE	BM60(4) (Restoration)	10	023-1026
LINE	BM60(D)(1.5) 111 to 300	570	023-1026
LINE	CLFD 96 WALL BOX	5	023-1026
LINE	CORE DRILL*	1	023-1026
LINE	LABOR 2 PERSON LINE*	20	023-1026
LINE	SLIMBOX 64 INDOOR	10	023-1026
LINE	THAWING*	2	023-1026
LINE	UD(10mm) (P)	2440	023-1026
LINE	UHF(30X48X36) 33,750 LB	1	023-1026
LINE	UO24	2690	023-1026
SPLICE	1:32 DIRECT CONNECT SPLITTER	15	023-1026
SPLICE	HO1 26-48 (U)	48	023-1026
SPLICE	HO1 5-12 (U)	45	023-1026
SPLICE	HO4	32	023-1026
SPLICE	HUO(24) 3M	6	023-1026
SPLICE	SPLICER W/O EQUIP*	26	023-1026



ASBUILT SIGN OFF

CONSTRUCTION _____ DATE _____

SPLICING _____ DATE _____

CUTWRITER _____ DATE _____

INSPECTOR _____ DATE _____

ENGINEERING _____ DATE _____

- GENERAL NOTES:**
- ALL EXISTING PLANT INFORMATION SHOWN IS FROM EXISTING RECORDS. NOTIFY ENGINEER OF ALL DISCREPANCIES FOUND, AND NOTE CHANGES ON PRINTS.
 - NOTIFY ENGINEER PRIOR TO MAKING ANY CHANGES TO WORK ORDER.

INDEX		
SHEET NO.	DESCRIPTION	LATEST ISSUE
1	TITLE SHEET, VACINITY MAPS, UNIT SUMMARY, INDEX	1
2	PLAN & PLANT SHEETS (CONSTRUCTION DRAWINGS)	1
3	DETAIL PLAN & PLANT SHEETS (CONSTRUCTION DRAWINGS)	
4	REPEATER / DOUBLER DETAIL PLAN & PLANT SHEETS	

CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

TOWNSHIP	RANGE	SECTION	DA#	EFRAP#
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE FBKS/8701	S#
		REV.	CAD# 023-1026	
		REV.	ENGR/EXT: W. McKechnie	
		REV.	DWN: WM DATE:	

HELD ORDER: YES NO <input type="checkbox"/> <input checked="" type="checkbox"/>	PERMITS: YES NO <input type="checkbox"/> <input checked="" type="checkbox"/>	CUTS REQ: YES NO <input type="checkbox"/> <input checked="" type="checkbox"/>	PRESSURE: YES NO <input type="checkbox"/> <input checked="" type="checkbox"/>
TITLE: FBKS MDU 3000 DAVIS RD JILLIAN SQUARE			WO# (2023) 023-1026
BOROUGH/CNTY			
SCALE:	APR'D:	ISSUED:	SH. 1 OF SHTS



CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

TOWNSHIP	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PERMITS: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CUTS REQ: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PRESSURE: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE FBKS/8701	S#	TITLE: FBKS MDU 3000 DAVIS RD		WO# (2023)	
		REV.	CAD# 023-1026		JILLIAN SQUARE		023-1026	
		REV.	ENGR/EXT: W. McKechnie		BOROUGH/CNTY			
		REV.	DWN: WM DATE:		SCALE: APR'D: ISSUED:		SH. 2 OF SHTS.	

NEW HH 3040 DAVIS ROAD					
STOCK #	ACTL	ESTM	UNIT	Capital	WBS#
		1	CORE DRILL	LINE	023-1026-11
		1	CORE DRILL*	LINE	023-1026-07
		330	BFO24	LINE	023-1026-11
		1	THAWING*	LINE	023-1026-11
R2960		330	BFO24	LINE	023-1026-11
		1	HUO(24) 3M	SPLICE	023-1026-23
		48	HO1	SPLICE	023-1026-23
T3810		48	HO1 26-48 (U)	SPLICE	023-1026-23
T3170		1	HUO(24) 3M	SPLICE	023-1026-23
T3171					
T3172					

PED					
STOCK #	ACTL	ESTM	UNIT	Capital	WBS#
		1	THAWING*	LINE	023-1026-11
R2960		290	BFO24	LINE	023-1026-11
S0704		1	BD5A	LINE	023-1026-11
S0710					
S3265		290	BM60(D)(1.5) 111 to 300	LINE	023-1026-11

HILL 4878					
STOCK #	ACTL	ESTM	UNIT	Capital	WBS#
		4	LABOR 2 PERSON LINE*	LINE	023-1026-09

Hill DLC 2080 Hill Street					
STOCK #	ACTL	ESTM	UNIT	Capital	WBS#
		6	SPLICER W/O EQUIP*	SPLICE	023-1026-23
		17	HO4	SPLICE	023-1026-23

3040 DAVIS BUILDING A					
STOCK #	ACTL	ESTM	UNIT	Capital	WBS#
		1	CLFD 96 WALL BOX	LINE	023-1026-09
		2	SLIMBOX 64 INDOOR	LINE	023-1026-09
R2960		350	UO24	LINE	023-1026-09
S3224		300	UD(10mm) (P)	LINE	023-1026-09
		4	LABOR 2 PERSON LINE*	LINE	023-1026-09
T3810		9	HO1 5-12 (U)	SPLICE	023-1026-23
T3170		1	HUO(24) 3M	SPLICE	023-1026-23
T3171					
T3172					
		3	HO4	SPLICE	023-1026-23
		4	SPLICER W/O EQUIP*	SPLICE	023-1026-23
		3	1:32 DIRECT CONNECT SPLICER	SPLICE	023-1026-23

CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

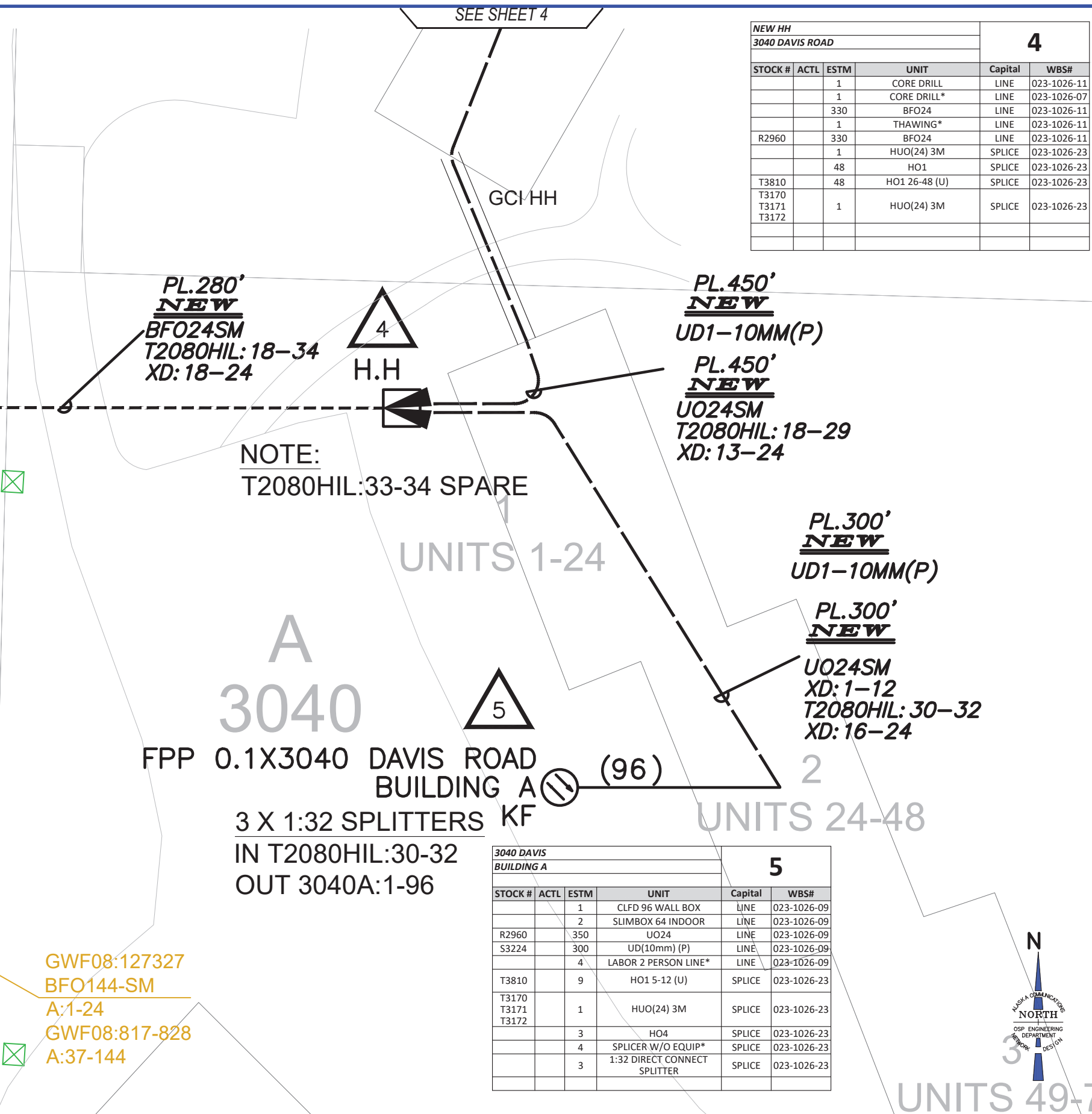
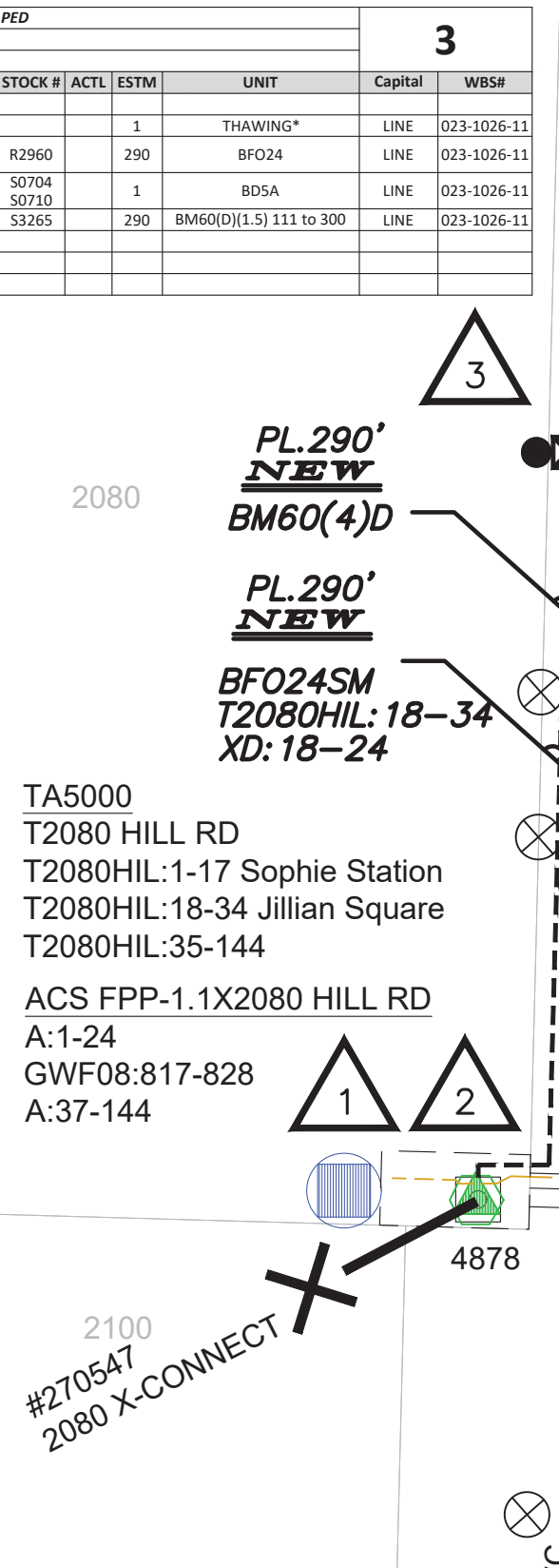
TOWNSHIP	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PERMITS: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CUTS REQ: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PRESSURE: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE FBKS/8701	S#	TITLE: FBKS MDU 3000 DAVIS RD JILLIAN SQUARE		WO# (2023) 023-1026	
		REV.	CAD# 023-1026		BOROUGH/CNTY			
		REV.	ENGR/EXT: W. McKechnie	DATE:	SCALE:		APR'D:	ISSUED:
		REV.	DWN: WM		SH. 3 OF		SHTS.	



#270547
 2080 X-CONNECT

GWF08:127327
 BFO144-SM
 A:1-24
 GWF08:817-828
 A:37-144

MILEY




UNIT

3030 DAVIS BUILDING C						6
STOCK #	ACTL	ESTM	UNIT	Capital	WBS#	
		1	CLFD 96 WALL BOX	LINE	023-1026-09	
		2	SLIMBOX 64 INDOOR	LINE	023-1026-09	
R2960		500	UO24	LINE	023-1026-09	
		4	LABOR 2 PERSON LINE*	LINE	023-1026-09	
S3224		450	UD(10mm) (P)	LINE	023-1026-09	
T3170		1	HUO(24) 3M	SPLICE	023-1026-23	
T3171		9	HO1 5-12 (U)	SPLICE	023-1026-23	
T3172		4	SPLICER W/O EQUIP*	SPLICE	023-1026-23	
T3810		3	HO4	SPLICE	023-1026-23	
		3	1:32 DIRECT CONNECT SPLITTER	SPLICE	023-1026-23	

3198

3180

C
3030 

FPP 1.1 X3030 DAVIS ROAD BUILDING C

3 X 1:32 SPLITTERS KF
IN: T2080HIL:27-29
OUT: 3030C:1-96

(96)

UNITS 24-48

PL.450' NEW
UD1-10MM(P)

PL.450' NEW
UO24SM
T2080HIL: 18-29
XD: 13-24

UNITS 1-24

PL.580' NEW
UD1-10MM(P)

PL.580' NEW
UO24SM
T2080HIL: 18-24
XD: 10-24

SEE SHEET 3

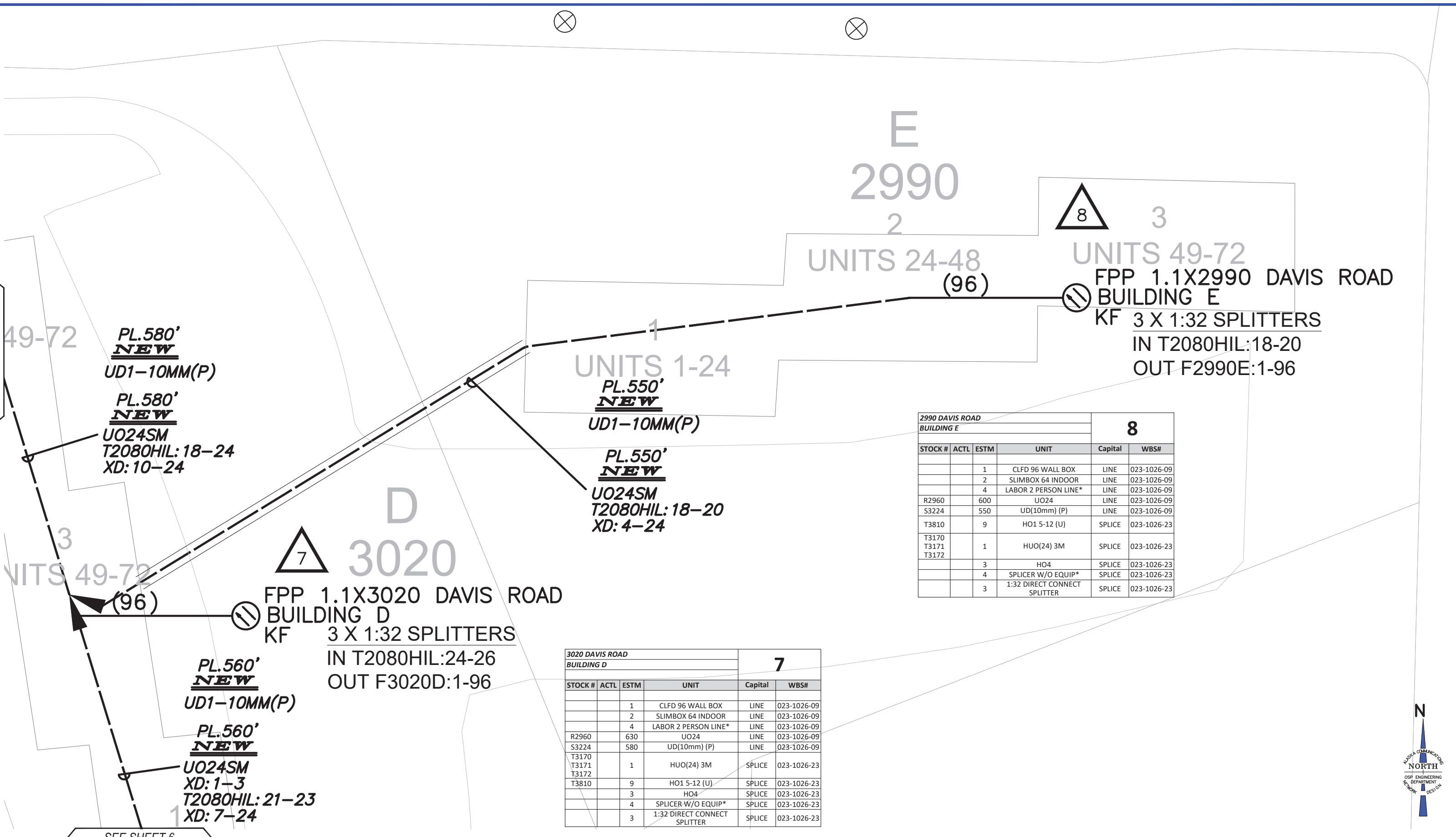


CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

TOWNSHIP	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PERMITS: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CUTS REQ: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PRESSURE: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE FBKS/8701	S#	TITLE: FBKS MDU 3000 DAVIS RD JILLIAN SQUARE		WO# (2023) 023-1026	
		REV.	CAD# 023-1026		BOROUGH/CNTY		SH. 4 OF SHTS.	
		REV.	ENGR/EXT: W. McKechnie		SCALE: APR'D: ISSUED:			
		REV.	DWN: WM	DATE:				

SEE SHEET 4

SEE SHEET 6



2990 DAVIS ROAD BUILDING E					8	
STOCK #	ACTL	ESTM	UNIT	Capital	WBS#	
		1	CLFD 96 WALL BOX	LINE	023-1026-09	
		2	SLIMBOX 64 INDOOR	LINE	023-1026-09	
		4	LABOR 2 PERSON LINE*	LINE	023-1026-09	
R2960		600	UO24	LINE	023-1026-09	
S3224		550	UD(10mm) (P)	LINE	023-1026-09	
T3810		9	HO1 5-12 (U)	SPLICE	023-1026-23	
T3170 T3171 T3172		1	HUO(24) 3M	SPLICE	023-1026-23	
		3	HO4	SPLICE	023-1026-23	
		4	SPLICER W/O EQUIP*	SPLICE	023-1026-23	
		3	1:32 DIRECT CONNECT SPLITTER	SPLICE	023-1026-23	

3020 DAVIS ROAD BUILDING D					7	
STOCK #	ACTL	ESTM	UNIT	Capital	WBS#	
		1	CLFD 96 WALL BOX	LINE	023-1026-09	
		2	SLIMBOX 64 INDOOR	LINE	023-1026-09	
		4	LABOR 2 PERSON LINE*	LINE	023-1026-09	
R2960		630	UO24	LINE	023-1026-09	
S3224		580	UD(10mm) (P)	LINE	023-1026-09	
T3170 T3171 T3172		1	HUO(24) 3M	SPLICE	023-1026-23	
T3810		9	HO1 5-12 (U)	SPLICE	023-1026-23	
		3	HO4	SPLICE	023-1026-23	
		4	SPLICER W/O EQUIP*	SPLICE	023-1026-23	
		3	1:32 DIRECT CONNECT SPLITTER	SPLICE	023-1026-23	



CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

TOWNSHIP	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PERMITS: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CUTS REQ: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PRESSURE: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE FBKS/8701	S#	TITLE: FBKS MDU 3000 DAVIS RD JILLIAN SQUARE			
		REV.	CAD# 023-1026		BOROUGH/CNTY			
		REV.	ENGR/EXT: W. McKechnie		WO# (2023) 023-1026			
		REV.	DWN: WM	DATE:	SH. 5 OF SHTS.			
					SCALE:	APR'D:	ISSUED:	

SEE SHEET 5

PL.560'
NEW
UD1-10MM(P)

PL.560'
NEW
U024SM
XD: 1-3
T2080HIL: 20-23
XD: 21-23

UNITS 49-72

UNITS 24-48



B
3010

(96) FPP 0.1X3010 DAVIS ROAD
BUILDING B
KF
3 X 1:32 SPLITTERS
IN T2080HIL:20-23
OUT F3010B:1-96

3010 DAVIS ROAD					9	
BUILDING B						
STOCK #	ACTL	ESTM	UNIT	Capital	WBS#	
		1	CLFD 96 WALL BOX	LINE	023-1026-09	
		2	SLIMBOX 64 INDOOR	LINE	023-1026-09	
		4	LABOR 2 PERSON LINE*	LINE	023-1026-09	
R2960		610	UO24	LINE	023-1026-09	
S3224		560	UD(10mm) (P)	LINE	023-1026-09	
T3810		9	HO1 5-12 (U)	SPLICE	023-1026-23	
T3170						
T3171		1	HUO(24) 3M	SPLICE	023-1026-23	
T3172						
		3	HO4	SPLICE	023-1026-23	
		3	1:32 DIRECT CONNECT SPLITTER	SPLICE	023-1026-23	
		4	SPLICER W/O EQUIP*	SPLICE	023-1026-25	

2982

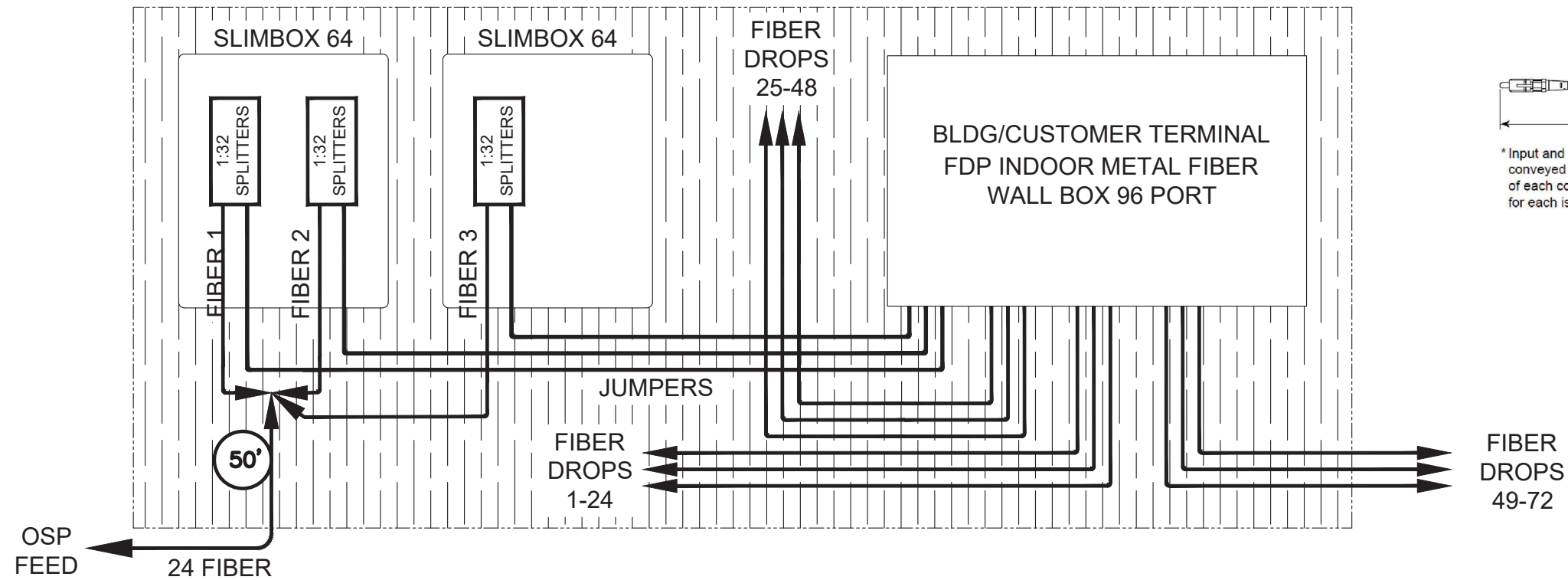


CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

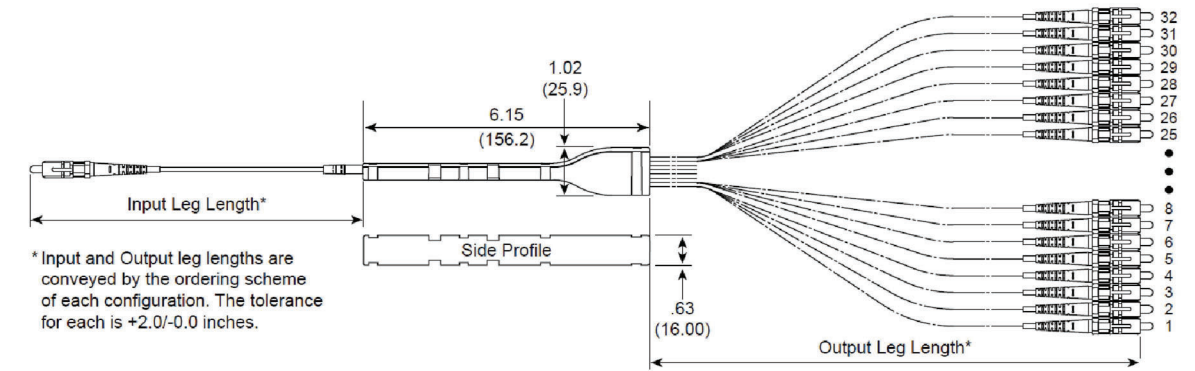
TOWNSHIP	RANGE	SECTION	DA#	EFRAP#
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE FBKS/8701	S#
		REV.	CAD# 023-1026	
		REV.	ENGR/EXT: W. McKechnie	
		REV.	DWN: WM DATE:	

HELD ORDER: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PERMITS: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CUTS REQ: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PRESSURE: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
TITLE: FBKS MDU 3000 DAVIS RD JILLIAN SQUARE			WO# (2023) 023-1026
BOROUGH/CNTY			SH. 6 OF SHTS
SCALE:	APR'D:	ISSUED:	

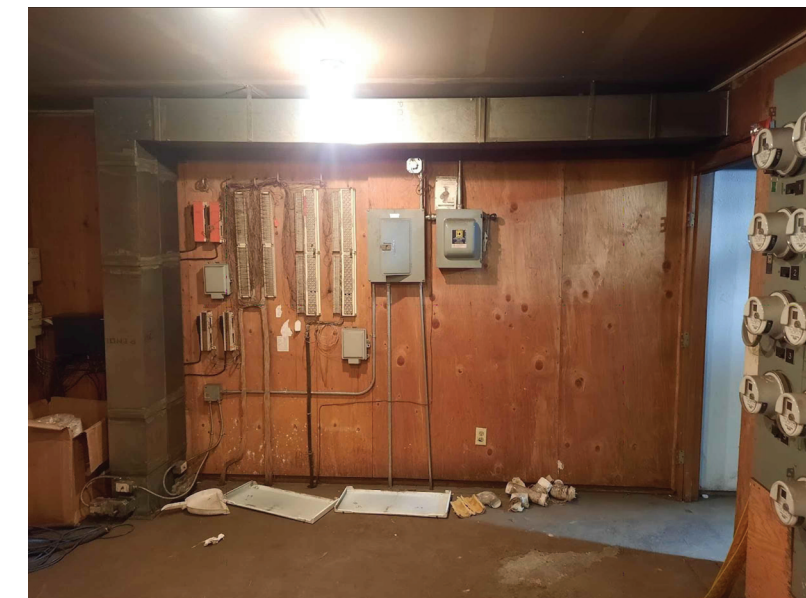
MECHANICAL ROOM
TYPICAL BACKBOARD DETAIL



DIRECT CONNECT 1:32 SPLITTER



COMM ROOMS SIMILAR IN ALL BUILDINGS



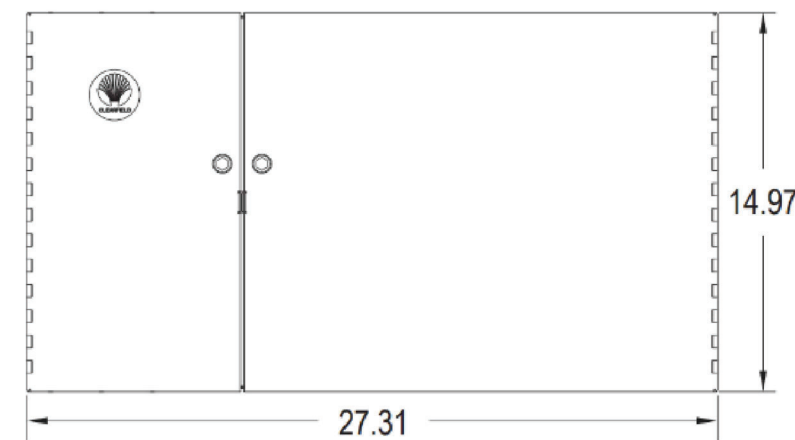
LARGE PATH BETWEEN BUILDINGS



SLIMBOX 64



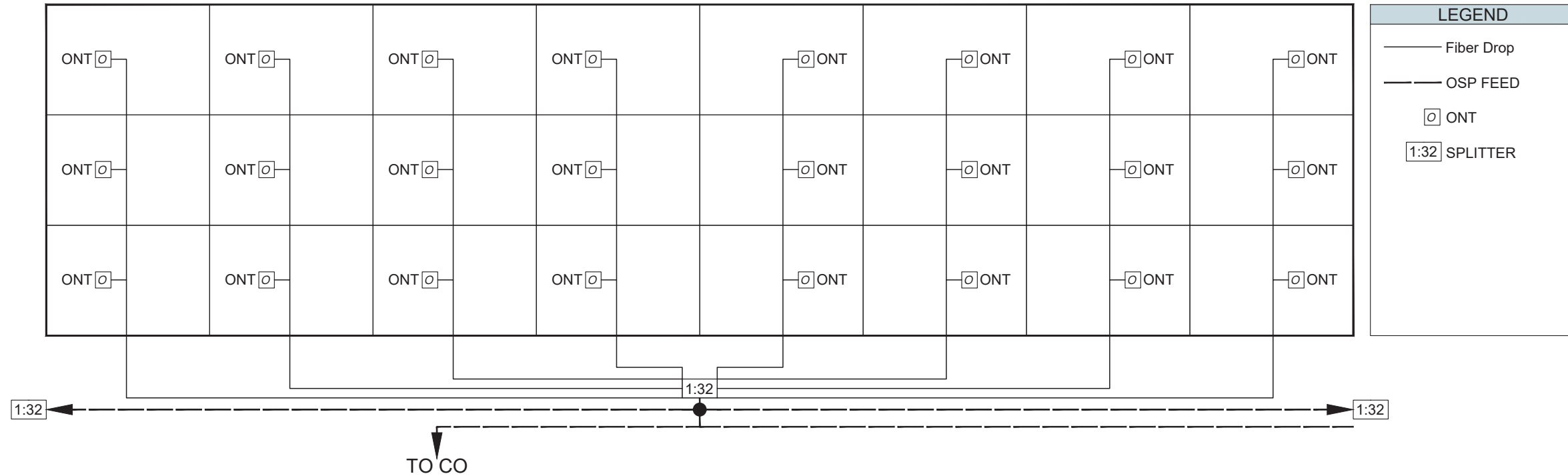
FIELDSMART 96
WALL BOX



CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

TOWNSHIP	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PERMITS: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CUTS REQ: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PRESSURE: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE FBKS/8701	S#	TITLE: FBKS MDU 3000 DAVIS RD		WO# (2023)	
		REV.	CAD# 023-1026		JILLIAN SQUARE		023-1026	
		REV.	ENGR/EXT: W. McKechnie		BOROUGH/CNTY			
		REV.	DWN: WM	DATE:	SCALE: APR'D: ISSUED:		SH. 7 OF 8 SHTS	

CENTER "POD" OF EACH BUILDING



Jillian BoM

Application	Description	Part Number	UoM	Quantity
Hut Shelf	Rack Mount Termination Shelf w/SC Adapters	301015970	Each	1
Hut Splitters	1:2 Shelf Mount Splitters ~ SCA/SCA	TBD	Each	8
Terminals	SlimBox 64 ~ 1 x 1:32 Splitter ~ UNC/SAS	TBD	Each	5
Terminals	SlimBox 64 ~ 2 x 1:32 Splitter ~ UNC/SAS	TBD	Each	5
Wall Plate	SlimBox Wall Plate - Indoor w/ Simplex SCA adapter	301122826	Each	360
Connector	EZ-Fuse 900um Splice on Connectors 10-pack	FSOC-SC09-SM-A	10-pack	40
Jumper	EZ-Bend 3.0mm Jumper - 6 feet	JRVDK001SCASCA006F	Each	360
Drop	EZ-Bend 3.0mm Drop ~ UNC/SCA ~ 200'	JRVDW001SCAUNC200F	Each	100
Drop	EZ-Bend 3.0mm Drop ~ UNC/SCA ~ 300'	JRVDW001SCAUNC300F	Each	80
Drop	EZ-Bend 3.0mm Drop ~ UNC/SCA ~ 350'	JRVDW001SCAUNC350F	Each	80
Drop	EZ-Bend 3.0mm Drop ~ UNC/SCA ~ 400'	JRVDW001SCAUNC400F	Each	100

Notes:

- Does not include cables from hut to property, or building to building
- Does not include termination of cables in hut or jumpers required to route within hut

Design Summary: Each individual structure is comprised of 3 pods identified as green, blue, and orange with 25 units per pod. Total of 72 units per structure. The pods are 3 stories tall with 8 units per floor.

The 5 structures have an internal duct system that enters the crawl space of each structure and provides an existing path for build out without needing to do any digging between structures.

The central (green) pod of each structure houses a laundry room and main mechanical room for all 3 pods on the ground level. This would be the location to place a 96 port FDH which would utilize a 12-strand fiber feed from the existing fiber and accommodate the 72 strands needed for full 1:1 distribution in each unit.

From the centrally located FDH we will drop back into the crawl space with a 16mm micro duct from the FDH to each unit on the 1st floor and drill an access hole from the crawl space to the interior wall located directly inside the unit. this interior wall is in the same location on all 3 floors. The 16mm duct will be fished through the interior wall from the 1st floor on the 2nd and 3rd dropping off a push able fiber at each unit which will be terminated on a fiber jack for plug in ONT installation. this would be done at all the units in each pod.

Blue and orange pods would have a 16mm duct placed from the FDH to a splice point in the crawlspace where a push able 24 strand fiber from the FDH will be spliced into the individual runs to each unit accessing the 1st, 2nd, and 3rd floors through the same common interior wall.

CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

TOWNSHIP	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PERMITS: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CUTS REQ: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PRESSURE: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE FBKS/8701	S#	TITLE: FBKS MDU 3000 DAVIS RD		WO# (2023)		
		REV.	CAD# 023-1026		JILLIAN SQUARE		023-1026		
		REV.	ENGR/EXT: W. McKechnie		BOROUGH/CNTY				
		REV.	DWN: WM	DATE:	SCALE:	APR'D:	ISSUED:		
							SH. 8	OF 8	SHTS