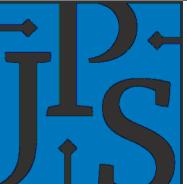


KEY PLAN

N

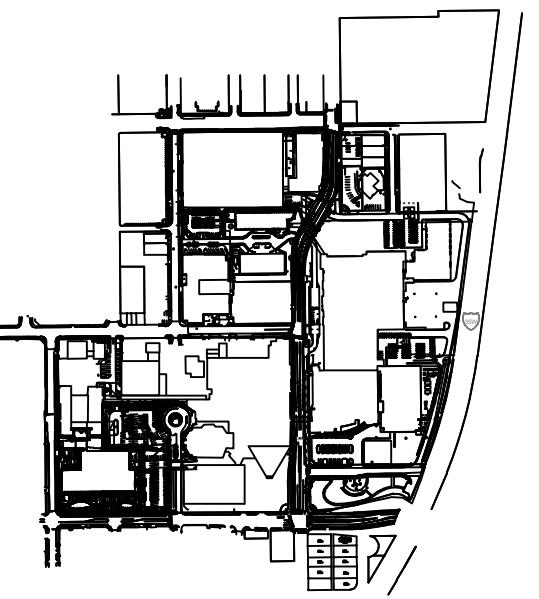


INSTALLATION PROCEDURE		TELECOMMUNICATIONS GENERAL CONSTRUCTION NOTES	UTILITY LEGEND																																																																																																																																																																								
1. BE200 REFURB SEE SRP-F04-100	2. ABF ASSEMBLY AND PRESSURE TESTING DEFK01 & BEPT001	G1. REFER TO SHEET TC5.01 FOR ALL FACE PLATE, BACK BOX, AND CONDUIT SIZE REQUIREMENTS FOR ALL VOICE/DATA OUTLETS.																																																																																																																																																																									
3. NITROGEN MSDS-001040_2022 - (MATERIAL SAFETY DATA SHEET FOR N2 - ADDED TO BE200 KIT)	4. BLOWING HEAD SETUP PROCEDURES	G2. DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT DRAWN TO SCALE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES AND DISTANCES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.																																																																																																																																																																									
5. FIBER BUNDLE INSTALLATION PROCEDURE (WITH ADDENDUM)	6. TUBE PRESSURE TESTING PROCEDURE (WITH ADDENDUM)	G3. CONDUITS AND SLEEVES ARE TO HAVE A MAXIMUM 40% FILL RATIO.																																																																																																																																																																									
7. TUBE PRESSURE TEST SHEET - (ADENDUM TO SP-F04-003)	8. TUBE OBSTRUCTION TESTING PROCEDURE (WITH ADDENDUM)	G4. IN THE INSTALLATION OF THIS WORK, THE CONTRACTOR IS TO COMPLY WITH THE REQUIREMENTS OF LOCAL LAWS AND ORDINANCES, THE LAWS OF TEXAS, THE NATIONAL BOARD OF FIRE UNDERWRITERS, AND THE NATIONAL ELECTRIC CODE, AND ALL APPLICABLE BISCI STANDARDS.																																																																																																																																																																									
9. TUBE OBSTRUCTION TEST SHEET - (ADENDUM TO SP-F04-004)	10. INDOOR WALL MOUNTED TDU INSTALLATION PROCEDURE	G5. CAREFULLY EXAMINE THE PREMISES TO DETERMINE THE EXTENT OF WORK AND THE CONDITION UNDER WHICH IT MUST BE DONE. IF THERE ARE ANY QUESTIONS REGARDING THE PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ENGINEER OR DESIGNATED REPRESENTATIVE BEFORE PROCEEDING WITH WORK OR RELATED WORK IN QUESTION.																																																																																																																																																																									
11. FIBER BUNDLE STRIPPING PROCEDURE	12. TUBE CABLE INSTALLATION PROCEDURES	G6. ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER OR DESIGNATED REPRESENTATIVE FOR CLARIFICATION.																																																																																																																																																																									
13. FIELD TERMINATION KIT PROCEDURES FOR FTFLD02, FTFLD04 AND FTFLD06 - (900MM) SUB UNIT KITS	14. RESTORATION PROCEDURE - DIELECTRIC TUBE CABLES & TUBE CABLE SPLICE KITS	G7. ALL WORK IS TO BE DONE IN A THOROUGH AND PROFESSIONAL MANNER ACCORDING TO INDUSTRY AND MANUFACTURERS' STANDARDS AND WILL BE SUBJECT TO INSPECTION AND ACCEPTANCE. WORK THAT IS DEEMED SUB-STANDARD WILL BE SUBJECT TO REPLACEMENT OR REPAIR AT NO ADDITIONAL COST TO THE OWNER OR GENERAL CONTRACTOR.																																																																																																																																																																									
15. RESTORATION PROCEDURE - ARMORED TUBE CABLES & SPLICE CASE KITS	16. RACK MOUNTED TUBE CABLE TERMINATION PANEL ASSEMBLY PROCEDURE	G8. THE CONTRACTOR IS REQUIRED TO PROPERLY FIRE-STOP ANY CORES UTILIZED FOR THE PLACEMENT OF COMMUNICATIONS INFRASTRUCTURE AND CABLING WITH APPROVED FIRE-STOPPING COMPOUND AND ACCORDING TO LOCAL AND NATIONAL CODES.																																																																																																																																																																									
17. SPLICE CASE KIT INSTALLATION PROCEDURE	18. ADDENDUM - PLP_C-CEMENT_MSDS_PRINT & INCLUDE IN KIT - INCLUDED WITH DEXXSPC KITS	G9. ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL PROJECT SPECIFICATIONS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER OR DESIGNATED REPRESENTATIVE FOR CLARIFICATION.																																																																																																																																																																									
19. ADDENDUM - PLP_SP 2801_CUE CARD_PRINT & INCLUDE IN KIT - INCLUDED WITH DEXXSPC KITS	20. ADDENDUM - PLP_SP 2918-2_SHELL ASSEMBLY_PRINT & INCLUDE IN KIT - INCLUDED WITH DEXXSPC KITS	G10. ALL PENETRATED STRUCTURES ARE TO BE RETURNED TO ORIGINAL CONDITION AND FIRE RATING.																																																																																																																																																																									
21. ADDENDUM - PLP_SP 2919-1-END PLATE ASSEMBLY_PRINT & INCLUDE IN KIT - INCLUDED WITH DEXXSPC KITS	22. TUBE CABLE SPLICE KIT INSTALLATION PROCEDURE																																																																																																																																																																										
23. TUBE AND TUBE CABLE SEALING PROCEDURES	24. INSTALLATION PROCEDURES FOR LIQUID-TIGHT KELLEMS GRIPS																																																																																																																																																																										
25. FIBER BUNDLE REMOVAL PROCEDURE	26. TANDEM BLOWING PROCEDURE FOR MULTIPLE BLOWING HEADS																																																																																																																																																																										
27. MID-SPAN BLOWING WITH A FIGURE 8 PROCEDURE	28. SEGMENT BLOWING WITH A FIGURE 8 PROCEDURE																																																																																																																																																																										
29. PLUNER-RATED JACKETED TUBE CABLE TCXXTP2 INSTALLATION PROCEDURES C32:C52C32:C53	30. GROUNDING AND BONDING METALLIC TUBE CABLE PROCEDURES																																																																																																																																																																										
31. TUBE CABLE SPLICING PROCEDURES	32. SEALING PROCEDURES FOR FUTUREFLEX TUBE CABLES LOCATED IN CLASS 1 DIVISION 1 & 2 ENVIRONMENTS																																																																																																																																																																										
33. SEALING PROCEDURES FOR FUTUREFLEX TUBES LOCATED IN CLASS 1 DIVISION 1 & 2 ENVIRONMENTS	34. FIELD TERMINATION KIT PROCEDURES FOR FT24FBK 900 MM SUB UNIT KITS																																																																																																																																																																										
35. INSTALLATION PROCEDURES FOR STRAIN RELIEF KELLEMS GRIPS	36. INSTALLATION PROCEDURES FOR CABLE ENTRY SEALS																																																																																																																																																																										
37. ARMORED TUBE CABLE INSTALLATION PROCEDURES	38. FB48XXX 900 MM BUFFER TUBE FIBER BREAKOUT AND TERMINATION INTO FOX CASSETTES																																																																																																																																																																										
39. FIELD TERMINATION KIT FOR FT48FBK 900MM SUB-UNIT KIT	40. FIELD TERMINATION KIT PROCEDURES FOR FT06FBK 900 MM SUB-UNIT KITS																																																																																																																																																																										
41. FIELD TERMINATION KIT PROCEDURES FOR FT18FBK 900 MM SUB UNIT KITS	42. FIELD TERMINATION KIT PROCEDURES FOR FT12FBK 900 MM SUB UNIT KITS																																																																																																																																																																										
43. FP48PVS & FP72PVX-FIBER BUNDLE STRIPPING PROCEDURES	44. FIELD TERMINATION FOR FP72PVX FIBER BUNDLES WITH FT72FBK-12SU / -12MU BREAKOUT KIT																																																																																																																																																																										
45. FP72PVX FIBER BUNDLE PROCEDURE FOR SINGLE FIBER TERMINATION USING A FB72FBK 900MM BREAKOUT KIT	46. FIELD TERMINATION KIT PROCEDURE FOR FT48FBK & FT72FBK TO FOX CASSETTE																																																																																																																																																																										
47. ARMORED TUBE CABLE INSTALLATION ON BRIDGES WITHOUT CONDUIT	48. FP48PVS & FP72PVX RIBBON MATRIX REMOVAL PROCEDURE																																																																																																																																																																										
49. FIELD TERMINATION PROCEDURE FB48 FIBER BUNDLES WITH FT48BK-12MU 3.8MM BREAKOUT KITS	50. FUTURE FLEX PATCH PANEL INSTALLATION																																																																																																																																																																										
51. PROCEDURE FOR LUBRICATING TUBES FOR 72 COUNT PVDF AIR BLOWN FIBER INSTALLATION	52. PROCEDURE FOR INSTALLATION OF RESCUE TAPE																																																																																																																																																																										
53. SPLICE CASE FLASH TEST DATA SHEET - (FOR LFTS - PRINTABLE .PDF)	54. PROCEDURE FOR INSTALLATION OF EPOXY IN HORIZONTAL POSITION																																																																																																																																																																										
55. TUBE & TUBE CABLE FASTENING PROCEDURES -UNITED-F - (FOR UAL PROJECTS ONLY)	56. TUBE & TUBE CABLE FASTENING PROCEDURES -SOUTHWEST - (FOR SOUTHWEST PROJECTS ONLY)																																																																																																																																																																										
		<h3>ABBREVIATION CATALOG</h3> <table border="1"> <tbody> <tr><td>ABF</td><td>AIR BLOWN FIBER</td></tr> <tr><td>ADA</td><td>AMERICANS WITH DISABILITIES ACT</td></tr> <tr><td>AFF</td><td>ABOVE FINISHED FLOOR</td></tr> <tr><td>AGF</td><td>ABOVE FINISHED GRADE</td></tr> <tr><td>AHJ</td><td>AUTHORITY HAVING JURISDICTION</td></tr> <tr><td>AL</td><td>ALUMINUM</td></tr> <tr><td>AWG</td><td>AMERICAN WIRE GAUGE</td></tr> <tr><td>BMS</td><td>BUILDING MANAGEMENT SYSTEM</td></tr> <tr><td>C</td><td>CONDUIT</td></tr> <tr><td>CAT</td><td>CATEGORY</td></tr> <tr><td>CATV</td><td>CABLE TELEVISION</td></tr> <tr><td>CM</td><td>CENTIMETER</td></tr> <tr><td>CMPT</td><td>COMPONENT</td></tr> <tr><td>CNN</td><td>CABLE NEWS NETWORK</td></tr> <tr><td>COMM</td><td>COMMUNICATIONS</td></tr> <tr><td>CPST</td><td>COMPOSITE</td></tr> <tr><td>CR</td><td>COMMUNICATIONS ROOM</td></tr> <tr><td>CU</td><td>COPPER</td></tr> <tr><td>CUP</td><td>CENTRAL UTILITY PLANT</td></tr> <tr><td>DBS</td><td>DIRECT BROADCAST SATELLITE</td></tr> <tr><td>DEMO</td><td>DEMOLISH</td></tr> <tr><td>DIG</td><td>DRAFTING</td></tr> <tr><td>EC</td><td>ELECTRICAL CONTRACTOR</td></tr> <tr><td>EMT</td><td>ELECTRICAL METALLIC TUBING</td></tr> <tr><td>FO</td><td>FIBER-OPTIC</td></tr> <tr><td>GC</td><td>GENERAL CONTRACTOR</td></tr> <tr><td>GRD</td><td>GROUND</td></tr> <tr><td>GRS</td><td>GALVANIZED RIGID STEEL</td></tr> <tr><td>HH</td><td>HAND HOLE</td></tr> <tr><td>IDF</td><td>INTERMEDIATE DISTRIBUTION FRAME</td></tr> <tr><td>IG</td><td>ISOLATED GROUND</td></tr> <tr><td>IMC</td><td>INTERMEDIATE METAL CONDUIT</td></tr> <tr><td>IT</td><td>INFORMATION TECHNOLOGY</td></tr> <tr><td>LV</td><td>LOW VOLTAGE</td></tr> <tr><td>M</td><td>METER</td></tr> <tr><td>MC</td><td>MECHANICAL CONTRACTOR</td></tr> <tr><td>MCR</td><td>MAIN COMMUNICATIONS ROOM</td></tr> <tr><td>MDF</td><td>MAIN DISTRIBUTION FRAME</td></tr> <tr><td>MFR</td><td>MANUFACTURER</td></tr> <tr><td>MMFO</td><td>MULTI-MODE FIBER OPTIC</td></tr> <tr><td>MMOF</td><td>MULTI-MODE OPTICAL FIBER</td></tr> <tr><td>NA</td><td>NOT AVAILABLE/NOT APPLICABLE</td></tr> <tr><td>NEC</td><td>NATIONAL ELECTRICAL CODE</td></tr> <tr><td>NEMA</td><td>NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION</td></tr> <tr><td>NFPA</td><td>NATIONAL FIRE PROTECTION ASSOCIATION</td></tr> <tr><td>NC</td><td>NOT IN CONTRACT</td></tr> <tr><td>NTS</td><td>NOT TO SCALE</td></tr> <tr><td>OR</td><td>OWNER AUTHORIZED REPRESENTATIVE</td></tr> <tr><td>OC</td><td>ON CENTER</td></tr> <tr><td>OFNR</td><td>OPTICAL FIBER NON-CONDUCTIVE RISER CABLE</td></tr> <tr><td>OLT</td><td>OPTICAL LINE TERMINAL</td></tr> <tr><td>ONT</td><td>OPTICAL NETWORK TERMINAL</td></tr> <tr><td>PB</td><td>PULL BOX</td></tr> <tr><td>PBX</td><td>PRIVATE BRANCH EXCHANGE</td></tr> <tr><td>PC</td><td>PERSONAL COMPUTER</td></tr> <tr><td>PEN</td><td>PENETRATION</td></tr> <tr><td>PVC</td><td>POLYVINYL CHLORIDE CONDUIT</td></tr> <tr><td>RGB</td><td>RED, GREEN, BLUE</td></tr> <tr><td>RGS</td><td>RIGID GALVANIZED STEEL</td></tr> <tr><td>RM</td><td>ROOM</td></tr> <tr><td>RMC</td><td>RIGID METAL CONDUIT</td></tr> <tr><td>TBD</td><td>TO BE DETERMINED</td></tr> <tr><td>TDR</td><td>TELECOMMUNICATIONS DISTRIBUTION ROOM</td></tr> <tr><td>TDS</td><td>TELECOMMUNICATION DISTRIBUTION SYSTEM</td></tr> <tr><td>TE</td><td>TELECOMMUNICATION EQUIPMENT ROOM</td></tr> <tr><td>TEC</td><td>TELECOM ENCLOSURE</td></tr> <tr><td>TELE</td><td>TELEPHONE</td></tr> <tr><td>TGL</td><td>TELECOM TELECOMMUNICATIONS</td></tr> <tr><td>TGB</td><td>TELECOMMUNICATIONS GROUND BUSBAR</td></tr> <tr><td>TIA</td><td>TELECOMMUNICATIONS INDUSTRY ASSOCIATION</td></tr> <tr><td>TMGB</td><td>TELECOMMUNICATIONS MAIN GROUNDING BUSBAR</td></tr> <tr><td>TMR</td><td>TELECOMMUNICATIONS SERVICE ENTRANCE ROOM</td></tr> <tr><td>TSP</td><td>TWISTED SHIELDED PAIR</td></tr> <tr><td>TV</td><td>TELEVISION</td></tr> <tr><td>TYP</td><td>Typical</td></tr> <tr><td>UL</td><td>UNDERWRITER'S LABORATORIES</td></tr> <tr><td>UN</td><td>UNLESS OTHERWISE NOTED</td></tr> <tr><td>UPS</td><td>UNINTERRUPTIBLE POWER SUPPLY</td></tr> <tr><td>UTP</td><td>UNSHIELDED TWISTED PAIR</td></tr> <tr><td>VOIP</td><td>VOICE OVER INTERNET PROTOCOL</td></tr> <tr><td>W/</td><td>WITH</td></tr> <tr><td>WG</td><td>WIREGUARD</td></tr> <tr><td>WT</td><td>WATERTIGHT</td></tr> <tr><td>XP</td><td>EXPLOSION PROOF</td></tr> </tbody> </table>		ABF	AIR BLOWN FIBER	ADA	AMERICANS WITH DISABILITIES ACT	AFF	ABOVE FINISHED FLOOR	AGF	ABOVE FINISHED GRADE	AHJ	AUTHORITY HAVING JURISDICTION	AL	ALUMINUM	AWG	AMERICAN WIRE GAUGE	BMS	BUILDING MANAGEMENT SYSTEM	C	CONDUIT	CAT	CATEGORY	CATV	CABLE TELEVISION	CM	CENTIMETER	CMPT	COMPONENT	CNN	CABLE NEWS NETWORK	COMM	COMMUNICATIONS	CPST	COMPOSITE	CR	COMMUNICATIONS ROOM	CU	COPPER	CUP	CENTRAL UTILITY PLANT	DBS	DIRECT BROADCAST SATELLITE	DEMO	DEMOLISH	DIG	DRAFTING	EC	ELECTRICAL CONTRACTOR	EMT	ELECTRICAL METALLIC TUBING	FO	FIBER-OPTIC	GC	GENERAL CONTRACTOR	GRD	GROUND	GRS	GALVANIZED RIGID STEEL	HH	HAND HOLE	IDF	INTERMEDIATE DISTRIBUTION FRAME	IG	ISOLATED GROUND	IMC	INTERMEDIATE METAL CONDUIT	IT	INFORMATION TECHNOLOGY	LV	LOW VOLTAGE	M	METER	MC	MECHANICAL CONTRACTOR	MCR	MAIN COMMUNICATIONS ROOM	MDF	MAIN DISTRIBUTION FRAME	MFR	MANUFACTURER	MMFO	MULTI-MODE FIBER OPTIC	MMOF	MULTI-MODE OPTICAL FIBER	NA	NOT AVAILABLE/NOT APPLICABLE	NEC	NATIONAL ELECTRICAL CODE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	NC	NOT IN CONTRACT	NTS	NOT TO SCALE	OR	OWNER AUTHORIZED REPRESENTATIVE	OC	ON CENTER	OFNR	OPTICAL FIBER NON-CONDUCTIVE RISER CABLE	OLT	OPTICAL LINE TERMINAL	ONT	OPTICAL NETWORK TERMINAL	PB	PULL BOX	PBX	PRIVATE BRANCH EXCHANGE	PC	PERSONAL COMPUTER	PEN	PENETRATION	PVC	POLYVINYL CHLORIDE CONDUIT	RGB	RED, GREEN, BLUE	RGS	RIGID GALVANIZED STEEL	RM	ROOM	RMC	RIGID METAL CONDUIT	TBD	TO BE DETERMINED	TDR	TELECOMMUNICATIONS DISTRIBUTION ROOM	TDS	TELECOMMUNICATION DISTRIBUTION SYSTEM	TE	TELECOMMUNICATION EQUIPMENT ROOM	TEC	TELECOM ENCLOSURE	TELE	TELEPHONE	TGL	TELECOM TELECOMMUNICATIONS	TGB	TELECOMMUNICATIONS GROUND BUSBAR	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR	TMR	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM	TSP	TWISTED SHIELDED PAIR	TV	TELEVISION	TYP	Typical	UL	UNDERWRITER'S LABORATORIES	UN	UNLESS OTHERWISE NOTED	UPS	UNINTERRUPTIBLE POWER SUPPLY	UTP	UNSHIELDED TWISTED PAIR	VOIP	VOICE OVER INTERNET PROTOCOL	W/	WITH	WG	WIREGUARD	WT	WATERTIGHT	XP	EXPLOSION PROOF
ABF	AIR BLOWN FIBER																																																																																																																																																																										
ADA	AMERICANS WITH DISABILITIES ACT																																																																																																																																																																										
AFF	ABOVE FINISHED FLOOR																																																																																																																																																																										
AGF	ABOVE FINISHED GRADE																																																																																																																																																																										
AHJ	AUTHORITY HAVING JURISDICTION																																																																																																																																																																										
AL	ALUMINUM																																																																																																																																																																										
AWG	AMERICAN WIRE GAUGE																																																																																																																																																																										
BMS	BUILDING MANAGEMENT SYSTEM																																																																																																																																																																										
C	CONDUIT																																																																																																																																																																										
CAT	CATEGORY																																																																																																																																																																										
CATV	CABLE TELEVISION																																																																																																																																																																										
CM	CENTIMETER																																																																																																																																																																										
CMPT	COMPONENT																																																																																																																																																																										
CNN	CABLE NEWS NETWORK																																																																																																																																																																										
COMM	COMMUNICATIONS																																																																																																																																																																										
CPST	COMPOSITE																																																																																																																																																																										
CR	COMMUNICATIONS ROOM																																																																																																																																																																										
CU	COPPER																																																																																																																																																																										
CUP	CENTRAL UTILITY PLANT																																																																																																																																																																										
DBS	DIRECT BROADCAST SATELLITE																																																																																																																																																																										
DEMO	DEMOLISH																																																																																																																																																																										
DIG	DRAFTING																																																																																																																																																																										
EC	ELECTRICAL CONTRACTOR																																																																																																																																																																										
EMT	ELECTRICAL METALLIC TUBING																																																																																																																																																																										
FO	FIBER-OPTIC																																																																																																																																																																										
GC	GENERAL CONTRACTOR																																																																																																																																																																										
GRD	GROUND																																																																																																																																																																										
GRS	GALVANIZED RIGID STEEL																																																																																																																																																																										
HH	HAND HOLE																																																																																																																																																																										
IDF	INTERMEDIATE DISTRIBUTION FRAME																																																																																																																																																																										
IG	ISOLATED GROUND																																																																																																																																																																										
IMC	INTERMEDIATE METAL CONDUIT																																																																																																																																																																										
IT	INFORMATION TECHNOLOGY																																																																																																																																																																										
LV	LOW VOLTAGE																																																																																																																																																																										
M	METER																																																																																																																																																																										
MC	MECHANICAL CONTRACTOR																																																																																																																																																																										
MCR	MAIN COMMUNICATIONS ROOM																																																																																																																																																																										
MDF	MAIN DISTRIBUTION FRAME																																																																																																																																																																										
MFR	MANUFACTURER																																																																																																																																																																										
MMFO	MULTI-MODE FIBER OPTIC																																																																																																																																																																										
MMOF	MULTI-MODE OPTICAL FIBER																																																																																																																																																																										
NA	NOT AVAILABLE/NOT APPLICABLE																																																																																																																																																																										
NEC	NATIONAL ELECTRICAL CODE																																																																																																																																																																										
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION																																																																																																																																																																										
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION																																																																																																																																																																										
NC	NOT IN CONTRACT																																																																																																																																																																										
NTS	NOT TO SCALE																																																																																																																																																																										
OR	OWNER AUTHORIZED REPRESENTATIVE																																																																																																																																																																										
OC	ON CENTER																																																																																																																																																																										
OFNR	OPTICAL FIBER NON-CONDUCTIVE RISER CABLE																																																																																																																																																																										
OLT	OPTICAL LINE TERMINAL																																																																																																																																																																										
ONT	OPTICAL NETWORK TERMINAL																																																																																																																																																																										
PB	PULL BOX																																																																																																																																																																										
PBX	PRIVATE BRANCH EXCHANGE																																																																																																																																																																										
PC	PERSONAL COMPUTER																																																																																																																																																																										
PEN	PENETRATION																																																																																																																																																																										
PVC	POLYVINYL CHLORIDE CONDUIT																																																																																																																																																																										
RGB	RED, GREEN, BLUE																																																																																																																																																																										
RGS	RIGID GALVANIZED STEEL																																																																																																																																																																										
RM	ROOM																																																																																																																																																																										
RMC	RIGID METAL CONDUIT																																																																																																																																																																										
TBD	TO BE DETERMINED																																																																																																																																																																										
TDR	TELECOMMUNICATIONS DISTRIBUTION ROOM																																																																																																																																																																										
TDS	TELECOMMUNICATION DISTRIBUTION SYSTEM																																																																																																																																																																										
TE	TELECOMMUNICATION EQUIPMENT ROOM																																																																																																																																																																										
TEC	TELECOM ENCLOSURE																																																																																																																																																																										
TELE	TELEPHONE																																																																																																																																																																										
TGL	TELECOM TELECOMMUNICATIONS																																																																																																																																																																										
TGB	TELECOMMUNICATIONS GROUND BUSBAR																																																																																																																																																																										
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION																																																																																																																																																																										
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR																																																																																																																																																																										
TMR	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM																																																																																																																																																																										
TSP	TWISTED SHIELDED PAIR																																																																																																																																																																										
TV	TELEVISION																																																																																																																																																																										
TYP	Typical																																																																																																																																																																										
UL	UNDERWRITER'S LABORATORIES																																																																																																																																																																										
UN	UNLESS OTHERWISE NOTED																																																																																																																																																																										
UPS	UNINTERRUPTIBLE POWER SUPPLY																																																																																																																																																																										
UTP	UNSHIELDED TWISTED PAIR																																																																																																																																																																										
VOIP	VOICE OVER INTERNET PROTOCOL																																																																																																																																																																										
W/	WITH																																																																																																																																																																										
WG	WIREGUARD																																																																																																																																																																										
WT	WATERTIGHT																																																																																																																																																																										
XP	EXPLOSION PROOF																																																																																																																																																																										
<p>STANDARD FIBER BUNDLE BLOWING DISTANCES USING (1) BLOWING HEAD</p> <table border="1"> <thead> <tr> <th>6 AND 12 FIBER BUNDLES (2MM O.D.)</th> <th>APPROX. BLOWING DISTANCE</th> </tr> </thead> <tbody> <tr><td>OSP Tube Cables</td><td>1500 meters or 5000 feet</td></tr> <tr><td>MTIO Tube Cables</td><td>1500 meters or 5000 feet</td></tr> <tr><td>TRC (Riser) Tube Cables</td><td>1000 meters or 3300 feet</td></tr> <tr><td>TP2 (Plenum) Tube Cables</td><td>600 meters or 1950 feet</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>24-FIBER BUNDLES (3mm O.D.)</th> <th>APPROX. BLOWING DISTANCE</th> </tr> </thead> <tbody> <tr><td>OSP Tube Cables</td><td>1800 meters or 6000 feet</td></tr> <tr><td>MTIO Tube Cables</td><td>1500 meters or 5000 feet</td></tr> <tr><td>TRC (Riser) Tube Cables</td><td>1000 meters or 3300 feet</td></tr> <tr><td>TP2 (Plenum) Tube Cables (24-fiber bundles in Tube cables with seven (7) or greater Tube count only)</td><td>300 meters or 1000 feet</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>48-PF-FIBER BUNDLES (3.7mm O.D.)</th> <th>APPROX. BLOWING DISTANCE</th> </tr> </thead> <tbody> <tr><td>OSP Tube Cables & MTIO Tube Cables</td><td>1400 meters or 5000 feet</td></tr> <tr><td>TRC (Riser) Tube Cables</td><td>1000 meters or 3300 feet</td></tr> <tr><td>TP2 (Plenum) TC07TP2, or larger TC</td><td>220 meters or 750 feet</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>48 & 72PVS-FIBER BUNDLES (3.1 and 3.7mm O.D.)</th> <th>APPROX. BLOWING DISTANCE</th> </tr> </thead> <tbody> <tr><td>OSP Tube Cables (without lubricant)</td><td>700 meters or 2300 feet</td></tr> <tr><td>OSP Tube Cables (with lubricant)</td><td>1220 meters or 4000 feet</td></tr> <tr><td>TRC (Riser) Tube Cables</td><td>800 meters or 2,600 feet</td></tr> <tr><td>TP2 (Plenum) TC07TP2, or larger TC</td><td>220 meters or 750 feet</td></tr> </tbody> </table>		6 AND 12 FIBER BUNDLES (2MM O.D.)	APPROX. BLOWING DISTANCE	OSP Tube Cables	1500 meters or 5000 feet	MTIO Tube Cables	1500 meters or 5000 feet	TRC (Riser) Tube Cables	1000 meters or 3300 feet	TP2 (Plenum) Tube Cables	600 meters or 1950 feet	24-FIBER BUNDLES (3mm O.D.)	APPROX. BLOWING DISTANCE	OSP Tube Cables	1800 meters or 6000 feet	MTIO Tube Cables	1500 meters or 5000 feet	TRC (Riser) Tube Cables	1000 meters or 3300 feet	TP2 (Plenum) Tube Cables (24-fiber bundles in Tube cables with seven (7) or greater Tube count only)	300 meters or 1000 feet	48-PF-FIBER BUNDLES (3.7mm O.D.)	APPROX. BLOWING DISTANCE	OSP Tube Cables & MTIO Tube Cables	1400 meters or 5000 feet	TRC (Riser) Tube Cables	1000 meters or 3300 feet	TP2 (Plenum) TC07TP2, or larger TC	220 meters or 750 feet	48 & 72PVS-FIBER BUNDLES (3.1 and 3.7mm O.D.)	APPROX. BLOWING DISTANCE	OSP Tube Cables (without lubricant)	700 meters or 2300 feet	OSP Tube Cables (with lubricant)	1220 meters or 4000 feet	TRC (Riser) Tube Cables	800 meters or 2,600 feet	TP2 (Plenum) TC07TP2, or larger TC	220 meters or 750 feet																																																																																																																																				
6 AND 12 FIBER BUNDLES (2MM O.D.)	APPROX. BLOWING DISTANCE																																																																																																																																																																										
OSP Tube Cables	1500 meters or 5000 feet																																																																																																																																																																										
MTIO Tube Cables	1500 meters or 5000 feet																																																																																																																																																																										
TRC (Riser) Tube Cables	1000 meters or 3300 feet																																																																																																																																																																										
TP2 (Plenum) Tube Cables	600 meters or 1950 feet																																																																																																																																																																										
24-FIBER BUNDLES (3mm O.D.)	APPROX. BLOWING DISTANCE																																																																																																																																																																										
OSP Tube Cables	1800 meters or 6000 feet																																																																																																																																																																										
MTIO Tube Cables	1500 meters or 5000 feet																																																																																																																																																																										
TRC (Riser) Tube Cables	1000 meters or 3300 feet																																																																																																																																																																										
TP2 (Plenum) Tube Cables (24-fiber bundles in Tube cables with seven (7) or greater Tube count only)	300 meters or 1000 feet																																																																																																																																																																										
48-PF-FIBER BUNDLES (3.7mm O.D.)	APPROX. BLOWING DISTANCE																																																																																																																																																																										
OSP Tube Cables & MTIO Tube Cables	1400 meters or 5000 feet																																																																																																																																																																										
TRC (Riser) Tube Cables	1000 meters or 3300 feet																																																																																																																																																																										
TP2 (Plenum) TC07TP2, or larger TC	220 meters or 750 feet																																																																																																																																																																										
48 & 72PVS-FIBER BUNDLES (3.1 and 3.7mm O.D.)	APPROX. BLOWING DISTANCE																																																																																																																																																																										
OSP Tube Cables (without lubricant)	700 meters or 2300 feet																																																																																																																																																																										
OSP Tube Cables (with lubricant)	1220 meters or 4000 feet																																																																																																																																																																										
TRC (Riser) Tube Cables	800 meters or 2,600 feet																																																																																																																																																																										
TP2 (Plenum) TC07TP2, or larger TC	220 meters or 750 feet																																																																																																																																																																										
<p>Notes:</p> <ul style="list-style-type: none"> Tube Lubrication using the Application Syringe and Sponges Must be performed on all Tube(s) accepting a FP48PVS, FP72PVS, FP72PV3 or FP72PV4 Fiber Bundle. This procedure Must be performed no more than 1 hour prior to blowing in a Fiber Bundle. This procedure applies to the FPxxPVx Fiber Bundles Only. See SRP: SP-F04-053 for procedure details. All distances given are approximate values only and can vary greatly. Several key factors heavily influence actual blowing distances: <ol style="list-style-type: none"> The location, number, and severity of bends in a Tube span route. The fiber bundle size being installed (2mm O.D., 3mm O.D. 3.1mm O.D. 3.7mm O.D. & 4.1 O.D.) 3. The Tube Cable type or types being blown through. 24, 48, and 72 fiber bundles are slightly stiffer than the 6 and 12 fiber bundles and are not as flexible. Consequently, 24, 48 and 72 fiber bundle blowing distances may be slightly less than the approximate distances noted if installed in Tube Cable routes with numerous tight bends. Extended Blowing Techniques can be used to install fiber bundles beyond the standard blowing distances given above or to help get fiber bundles through difficult Tube routes (i.e. those with numerous tight bends). Refer to SRPs: <ul style="list-style-type: none"> SP-F04-026 Tandem Blowing Procedure. SP-F04-027 Mid-Span Blowing With a Figure 8 Procedure. SP-F04-028 Segment Blowing With a Figure 8 Procedure. 																																																																																																																																																																											
<p>Important Note: As a General Practice, Always avoid Tight Bends for all Tube Cable types and Always focus on minimizing the number of bends for all installed Tube Spans.</p>																																																																																																																																																																											

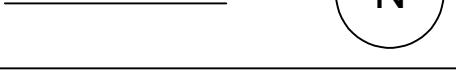


ABF DO'S AND DON'TS CONTINUED

BEGIN BLOWING OPERATIONS (REF: SRP SP-F04-002)		COMPLETING BLOWING OPERATIONS (REF: SRP SP-F04-002)		FIBER BUNDLE TERMINATION	
<p>DO'S</p> <p>FOR TUBE SPANS 500+ FEET IN LENGTH, START WITH OPERATING PRESSURES AS FOLLOWS:</p> <ul style="list-style-type: none"> • AIR FLOW PRESSURE AT 85-90 PSI (USE LESS PRESSURE IF SPAN IS SHORTER); ADJUST AT PRESSURE REGULATOR • AIR MOTOR PRESSURE AT 85-90 PSI; ADJUST AT FILTER / REGULATOR ASSEMBLY <p>ALWAYS START AIR MOTOR SLOWLY AND THEN INCREASE SPEED</p> <p>ALWAYS USE PROPER BLOWING HEAD OPERATOR TECHNIQUES BY KEEPING:</p> <ul style="list-style-type: none"> • 2 HANDS ON MOTOR RATE CONTROL VALVE FOR QUICK REACTION / SHUT OFF IF NECESSARY • 2 EYES ON 8MM CLEAR TUBE WATCHING FIBER BUNDLE PERFORMANCE; NO WAVING & SNAKING • 2 EARS OPEN LISTENING TO AIR MOTOR PERFORMANCE; GOOD SOUND & NOT "LUGGING" DOWN <p>ADJUST OPERATING PRESSURES AND SPEEDS BASED ON FIBER BUNDLE BLOWING PERFORMANCE; INCREASE AIR FLOW PRESSURE GRADUALLY (IN 10 PSI INCREMENTS) AS NECESSARY TO ACHIEVE SMOOTH INSTALLATION PERFORMANCE</p> <p>ADJUST AIR MOTOR SPEED TO MATCH FIBER BUNDLE INSTALLATION SPEED TO PROLONG LIFE OF FIBER BUNDLE DRIVE WHEELS; DECREASES WEAR ON DRIVE WHEELS</p> <p>WATCH PAYOFF COUNTER DURING BLOWING OPERATIONS; REGISTERS FIBER BUNDLE INSTALLATION DISTANCE IN METERS (MULTIPLE BY 3" TO CONVERT TO APPROXIMATE FOOTAGE)</p> <p>WATCH GAS BOTTLE SUPPLY PRESSURE GAUGE DURING BLOWING OPERATIONS; BOTTLE IS NEAR EMPTY WHEN GAUGE READS ABOUT 400 PSI</p>	<p>DON'TS</p> <p>DO NOT EXCEED 200 PSI AIR FLOW AND 100 PSI AIR MOTOR PRESSURES</p> <p>NEVER START FIBER BUNDLE BLOWING OPERATIONS UNTIL GOOD AIR FLOW IS CONFIRMED AT EXIT POINT OF TUBE SPAN</p> <p>NEVER PLAY WITH OR BLOCK AIR FLOW ESCAPE AT EXIT END OF TUBE SPAN</p> <p>DO NOT BE IN A HURRY; BEGIN BLOWING OPERATIONS WITH LOW PRESSURES AND SLOW SPEEDS FOR BEST RESULTS</p> <p>DO NOT USE TOO MUCH PRESSURE; OFTEN RESULTS IN A BACK-PRESSURE SITUATION THAT WASTES GAS AND CAN CAUSE INSTALLATION SPEEDS TO ACTUALLY DECREASE</p> <p>DO NOT WASTE GAS BOTTLE SUPPLY; SECURE WHEN NOT IN USE</p>	<p>DO'S</p> <p>AT FIBER BUNDLE EXIT POINT, BLOW OUT ABOUT 10 - 15 FEET OF FIBER BUNDLE FOR TERMINATION PURPOSES; MORE OR LESS LENGTH IF REQUIRED / DESIRED</p> <p>AT FIBER BUNDLE ENTRY POINT, ALWAYS USE CARE WHEN PULLING ABOUT 10 - 15 FEET OF FIBER BUNDLE FROM REEL FOR TERMINATION PURPOSES; MORE OR LESS LENGTH IF REQUIRED / DESIRED</p> <p>ALWAYS UNLOAD FIBER BUNDLE FROM BLOWING HEAD CAREFULLY</p> <p>ALWAYS USE SPECIAL CARE WHEN REMOVING AIR SEAL FROM AROUND FIBER BUNDLE AND UNCOUPLING TUBING</p> <p>ALWAYS HANDLE EXPOSED FIBER BUNDLE WITH UTMOST CARE</p> <p>ALWAYS COIL AND STORE EXPOSED FIBER BUNDLE IN PROTECTED AREAS WHEN BLOWING OPERATIONS ARE COMPLETE</p> <p>ALWAYS SEAL OPEN END OF OCCUPIED TUBES WITH 2MM OR 3MM FIBER BUSHINGS</p> <p>ALWAYS RE-INSTALL FIBER BUNDLE REEL PROTECTIVE COVER (CLAMSHELL) AFTER BLOWING OPERATIONS ARE COMPLETE</p>	<p>DON'TS</p> <p>NEVER USE EXCESS FORCE TO "PULL" FIBER BUNDLE; POSSIBLE DAMAGE TO FIBER OPTIC STRANDS CAN RESULT</p> <p>DO NOT WASTE GAS BOTTLE SUPPLY; SECURE BOTTLE WHEN BLOWING OPERATIONS ARE COMPLETE</p> <p>DO NOT LOSE FIBER BUNDLE BLOWING TIP; LEAVE INSTALLED ON END OF FIBER BUNDLE AND CUT OFF ABOUT A 3 - 6 INCH LENGTH OF FIBER BUNDLE FOR STORAGE</p> <p>ALWAYS STRIP FIBER BUNDLE LENGTH TO AT LEAST 6 - 8 INCHES BEYOND THAT OF FIELD TERMINATION KIT BUFFER TUBE LENGTH</p> <p>ALWAYS MAKE SURE POLYESTER RIPCORD IS NEXT TO BLUE STRAND FIBER BEFORE PULLING SUB-UNIT RIPCORDS IN 6-STRAND AND 24-STRAND FIBER BUNDLES; RISK OF BREAKING STRANDS OTHERWISE</p> <p>ALWAYS USE A PROPER WORK SURFACE AND STAY ORGANIZED DURING FIBER TERMINATION WORK</p>	<p>DO'S</p> <p>AT FIBER BUNDLE EXIT POINT, BLOW OUT ABOUT 10 - 15 FEET OF FIBER BUNDLE FOR TERMINATION PURPOSES; MORE OR LESS LENGTH IF REQUIRED / DESIRED</p> <p>ALWAYS USE ESTABLISHED SAFETY PRECAUTIONS WHEN HANDLING AND WORKING WITH FIBER OPTIC STRANDS; WEAR APPROPRIATE PERSONAL SAFETY EQUIPMENT</p> <p>ALWAYS STRIP FIBER BUNDLE JACKET AND NYLON SUB-UNITS IN ACCORDANCE WITH SRP SP-F006 PROCEDURES USING PROPER TOOLS AND TECHNIQUES</p> <p>ALWAYS STRIP FIBER BUNDLE LENGTH TO AT LEAST 6 - 8 INCHES BEYOND THAT OF FIELD TERMINATION KIT BUFFER TUBE LENGTH</p> <p>ALWAYS MAKE SURE POLYESTER RIPCORD IS NEXT TO BLUE STRAND FIBER BEFORE PULLING SUB-UNIT RIPCORDS IN 6-STRAND AND 24-STRAND FIBER BUNDLES; RISK OF BREAKING STRANDS OTHERWISE</p> <p>ALWAYS USE A PROPER WORK SURFACE AND STAY ORGANIZED DURING FIBER TERMINATION WORK</p>	<p>DON'TS</p> <p>NEVER "ROUGH HANDLE" FIBER BUNDLE OR BARE STRANDS; USE TOOLS CAREFULLY, PULL RIPCORDS SLOW AND STEADY, ETC.</p> <p>DO NOT EXCEED 1.5-INCH MINIMUM BEND RADIUS ON ANY FIBER BUNDLE</p> <p>DO NOT INTRODUCE TWISTING OF THE STRANDS INSIDE FIELD TERMINATION KIT SPLITTER BOX; RISK OF MACRO-BENDING AND INCREASED ATTENUATION</p>



KEY PLAN



BURNS ENGINEERING F-4827
09/12/2025

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

No. Date Revision

Project Title:
**JOHN PETER SMITH
(JPS) CAMPUS
OPTICAL FIBER LOOP**

Drawing Title:

**TECHNOLOGY
ABF DO'S AND DON'TS**

Date: 09/12/2025

Scale: 1"=100'

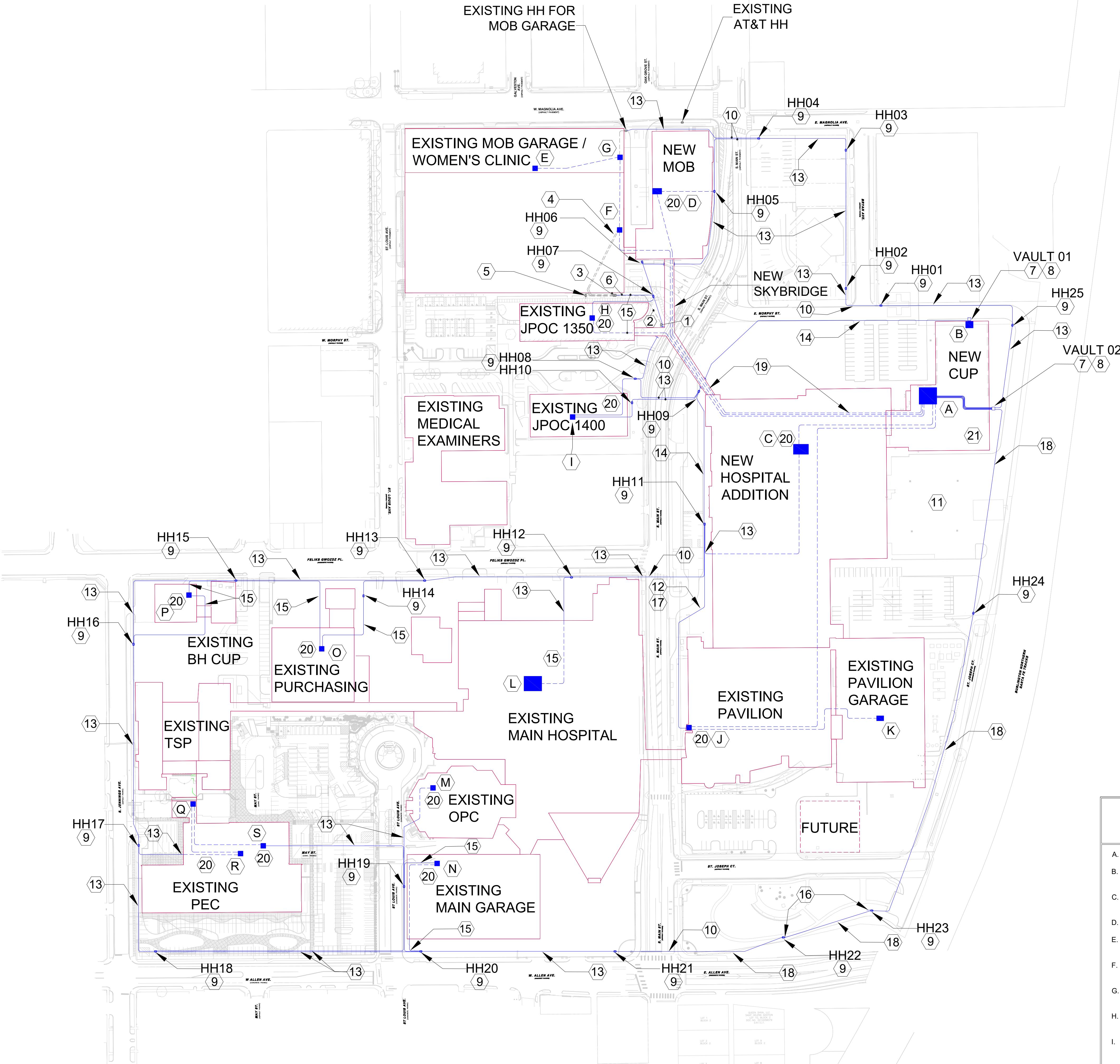
Drawn: GF

Checked: MH/PG

Job No: 2024-0287

Drawing No:

TC002

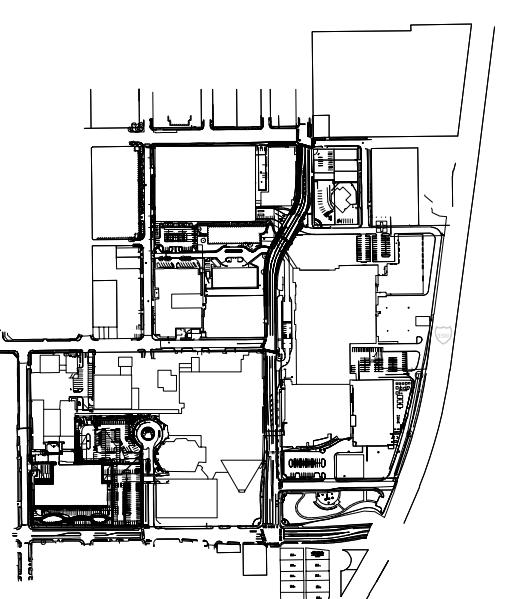


GENERAL NOTES

- CONFIRM EXISTING CONDITIONS IN THE FIELD PRIOR TO PERFORMING ANY WORK.
- EXISTING BUILDINGS ARE TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. COORDINATE ANY UNFORESEEN OUTAGES WITH THE JPS L.T. MANAGER PRIOR TO PERFORMING THE WORK.
- REFER TO CIVIL AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION FOR NEW AREAS.
- COORDINATE COMMUNICATION PATHWAY SYSTEMS WITH OTHER UTILITIES PRIOR TO INSTALLATION.
- COORDINATE ENTRY INTO THE BUILDING WITH JPS PDC, CIVIL AND STRUCTURAL ENGINEERS PRIOR TO INSTALLATION.
- LABEL ALL UNDERGROUND CONDUIT AS "SIGNAL" WITH BRASS TAG.
- REFER TO HAND HOLE / VAULT DETAILS FOR SPECIFICATIONS ON CONDUIT PENETRATIONS, INCLUDING REQUIRED QUANTITIES AND ADDITIONAL INSTALLATION REQUIREMENTS.

KEYNOTES

- EXISTING TO REMAIN AT&T HH.
- EXISTING TO REMAIN AT&T CONDUIT AND FIBER.
- EXISTING TO REMAIN HH FOR GARAGE FROM JPOC 1350.
- EXISTING TO REMAIN (2) 4" CONDUITS FROM NEW HH TO EXISTING HH.
- EXISTING HH TO JPOC 1350 MDF.
- INSTALL (2) 4" CONDUITS WITH ONE (1) 19-TUBE ABF MICRO DUCT FROM NEW HH A06 VIA EXISTING JPS HH TO JPOC MDF.
- INSTALL (6) 4" CONDUITS FROM CUP ENTRY ROOM TO VAULT.
- FURNISH & INSTALL MINIMUM 6'X6'X6' CONCRETE VAULT WITH ELECTRIC SUMP, TRAFFIC RATED TIER 22. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- FURNISH & INSTALL HH. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE SINGLE BORE CROSSING WITH SUFFICIENT WIDTH TO ACCOMMODATE CONDUIT QUANTITIES. ENSURE BORE DIAMETER ALLOWS FOR PROPER SPACING, INSTALLATION, AND FUTURE ACCESSIBILITY.
- PROPOSED SERVICE YARD.
- REFER TO ENABLING PACKAGE DRAWINGS (TEMPORARY AMBULATORY DRIVE) FOR CONDUIT PATHWAY/ROUTING.
- INSTALL (1) 4" CONDUITS & (1) 4" SPARE CONDUIT.
- INSTALL (2) 4" CONDUITS & (1) 4" SPARE CONDUIT.
- INSTALL (1) 4" CONDUIT.
- INSTALL AND STUB (2) 4" CONDUITS 3-FEET FROM HH AND CAP FOR FUTURE USE FOR FUTURE BUILDING.
- REFER TO ENABLING PACKAGE DRAWINGS (TEMPORARY AMBULATORY DRIVE) FOR CONDUIT REQUIREMENTS.
- ENABLING PACKAGE FOR POWER/WATER. INSTALL (4) 4" CONDUITS.
- INSTALL AND ROUTE (2) 4" CONDUIT. TO BE INSTALLED THROUGH NEW CUP, NEW HOSPITAL, AND NEW SKYBRIDGE. ALL PATHWAYS TO BE ABOVE GROUND, ROUTED THROUGH INTERIOR SPACES OF BUILDINGS AND SKYBRIDGE TO TDR(IDF).
- CONDUIT WITHIN ANY INTERIOR SPACE OF BUILDING 'BY OTHERS'.
- NEW CUP DATA COMMUNICATIONS ROOM - LEVEL 3.



WILLIAM H. MASTERS
REGISTERED PROFESSIONAL ENGINEER
93374

BURNS ENGINEERING F-4827
09/12/2025

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SHA AUTHENTICATION CODE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

No. Date Revision

Project Title:
JOHN PETER SMITH
(JPS) CAMPUS
OPTICAL FIBER LOOP

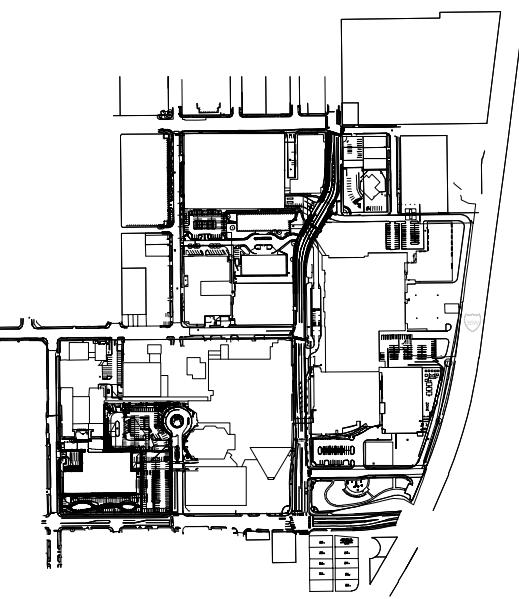
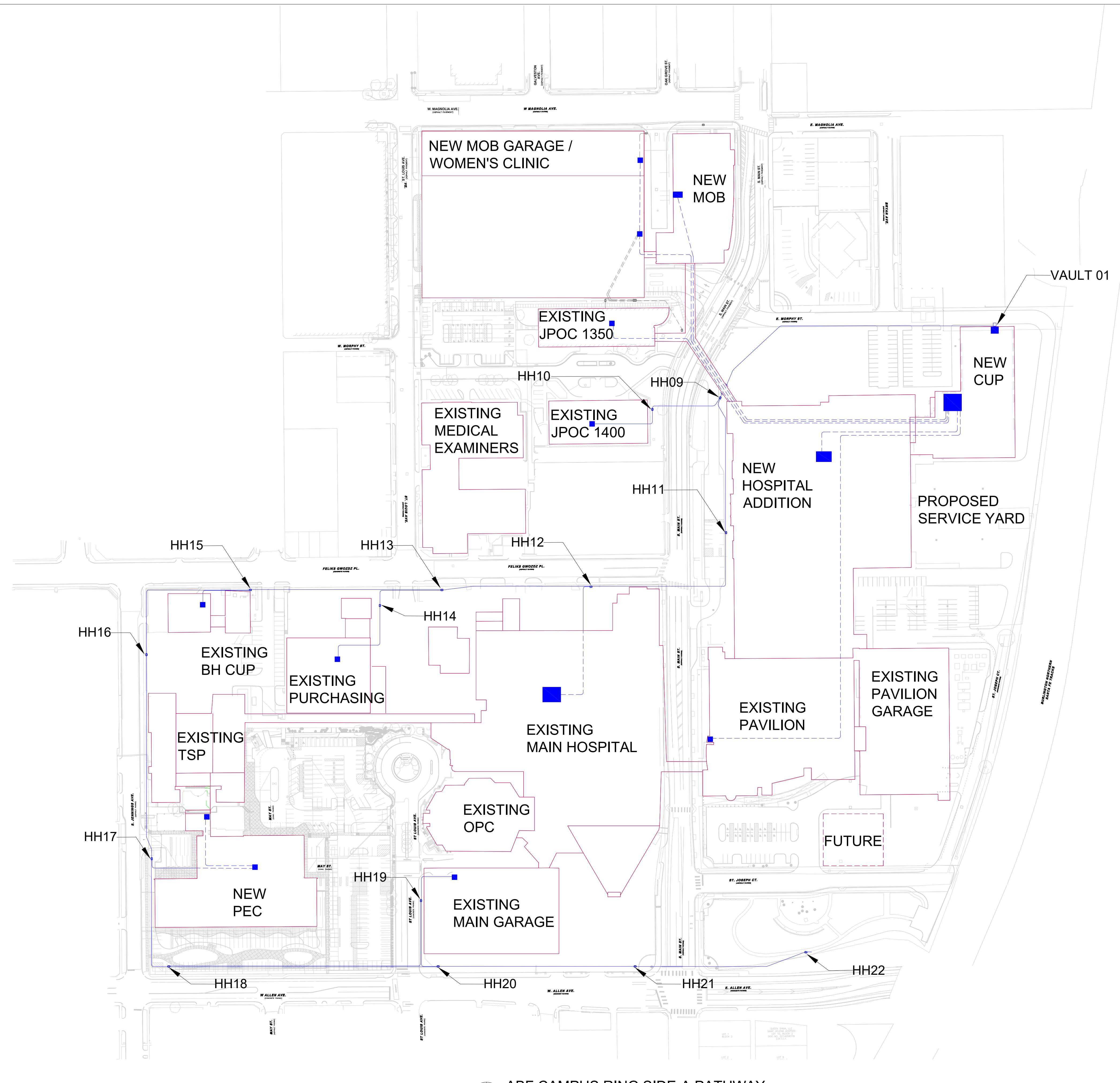
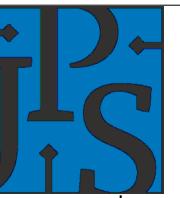
Drawing Title:

TSER (MDF) / TDR (IDF) KEYNOTE LOCATIONS

- A. NEW LEVEL 1 CUP MDF/DEMARC.
- B. NEW LEVEL 3 CUP - DATA & COMMUNICATIONS CENTER.
- C. NEW LEVEL 3 HOSPITAL ADDITION TSER.
- D. NEW LEVEL 1 MOB TSER.
- E. NEW LEVEL 1 HEALTH CENTER FOR WOMEN'S CLINIC IDF.
- F. EXISTING TO REMAIN LEVEL 1 EXISTING GARAGE MDF.
- G. EXISTING TO REMAIN LEVEL 1 EXISTING GARAGE DEMARC.
- H. EXISTING TO REMAIN LEVEL 1 EXISTING JPOC 1350 MDF.
- I. EXISTING TO REMAIN LEVEL 1 EXISTING JPOC 1400 MDF.
- J. EXISTING TO REMAIN LEVEL 1 EXISTING PAVILION MDF.
- K. EXISTING TO REMAIN LEVEL 1 EXISTING GARAGE PAVILION IDF.
- L. EXISTING TO REMAIN LOWER LEVEL EXISTING MAIN HOSPITAL DATA CENTER.
- M. EXISTING TO REMAIN LEVEL 2/4 EXISTING OPC IDF.
- N. EXISTING TO REMAIN LEVEL 1 EXISTING MAIN GARAGE IDF.
- O. EXISTING TO REMAIN LEVEL 1 EXISTING PURCHASING MDF.
- P. EXISTING TO REMAIN LEVEL 1 EXISTING BH CUP IDF.
- Q. EXISTING TO REMAIN LEVEL 1 EXISTING TSP/PEC CONNECTOR MDF.
- R. EXISTING TO REMAIN LEVEL 1 EXISTING PEC MDF.
- S. EXISTING TO REMAIN LEVEL 1 EXISTING PEC IDF.

Date: 09/12/2025
Scale: 1"=100'
Drawn: GF
Checked: MH/PG
Job No: 2024-0287
Drawing No:

TC101



BURNS ENGINEERING F-4827
09/12/2025

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SHA AUTHENTICATION CODE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

No. Date Revision

Project Title:

JOHN PETER SMITH
(JPS) CAMPUS
OPTICAL FIBER LOOP

Drawing Title:

TECHNOLOGY
CAMPUS SITE
PLAN

Date: 09/12/2025

Scale: 1"=100'

Drawn: GF

Checked: MH/PG

Job No: 2024-0287

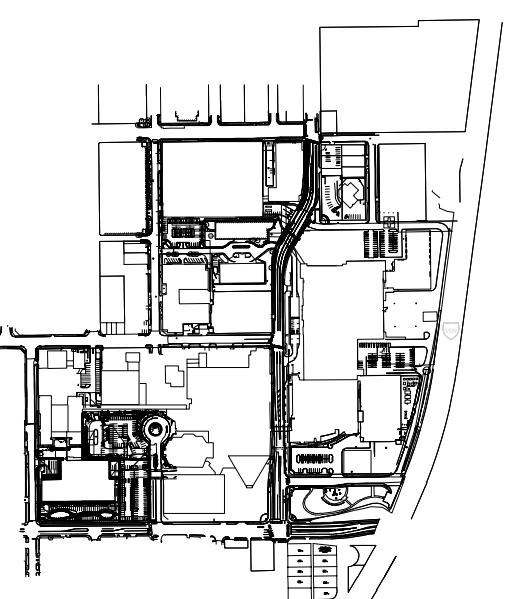
Drawing No:

TC102



ABF CAMPUS RING SIDE-B PATHWAY

TC103



KEY PLAN



BURNS ENGINEERING F-4827
09/12/2025

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SHA AUTHENTICATION CODE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

No. Date Revision

Project Title:
JOHN PETER SMITH
(JPS) CAMPUS
OPTICAL FIBER LOOP

Drawing Title:

TECHNOLOGY
CAMPUS SITE
PLAN

Date: 09/12/2025

Scale: 1"=100'

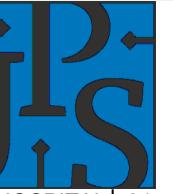
Drawn:

Checked:

Job No: 2024-0287

Drawing No:

TC103

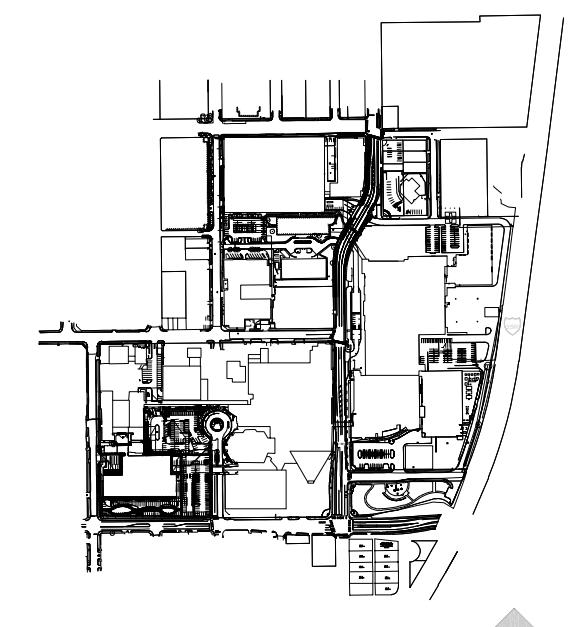


GENERAL NOTES

- A. CONFIRM EXISTING CONDITIONS IN THE FIELD PRIOR TO PERFORMING ANY WORK.
- B. EXISTING BUILDINGS ARE TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. COORDINATE ANY UNFORESEEN OUTAGES WITH THE JPS L.T. MANAGER PRIOR TO PERFORMING THE WORK.
- C. REFER TO CIVIL AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION FOR NEW AREAS.
- D. COORDINATE COMMUNICATION PATHWAY SYSTEMS WITH OTHER UTILITIES PRIOR TO INSTALLATION.
- E. COORDINATE ENTRY INTO THE BUILDING WITH JPS PDC, CIVIL AND STRUCTURAL ENGINEERS PRIOR TO INSTALLATION.
- F. LABEL ALL UNDERGROUND CONDUIT AS "SIGNAL" WITH BRASS TAG.
- G. REFER TO HAND HOLE / VAULT DETAILS FOR SPECIFICATIONS ON CONDUIT PENETRATIONS, INCLUDING REQUIRED QUANTITIES AND ADDITIONAL INSTALLATION REQUIREMENTS.

KEYNOTES

1. INSTALL (1) 4" CONDUITS & (1) 4" SPARE CONDUIT.
2. INSTALL (2) 4" CONDUITS & (1) 4" SPARE CONDUIT.
3. REFER TO ENABLING PACKAGE DRAWINGS (TEMPORARY AMBULATORY DRIVE) FOR ADDITIONAL INFORMATION.



KEY PLAN



BURNS ENGINEERING F-4827
09/12/2025

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SHA AUTHENTICATION CODE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

No. Date Revision

Project Title:
JOHN PETER SMITH
(JPS) CAMPUS
OPTICAL FIBER LOOP

Drawing Title:

**TECHNOLOGY
JPS MFP
CAMPUS SITE
PLAN**

Date: 09/12/2025

Scale: 1"=100'

Drawn: GF

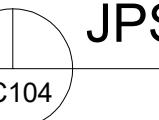
Checked: MH/PG

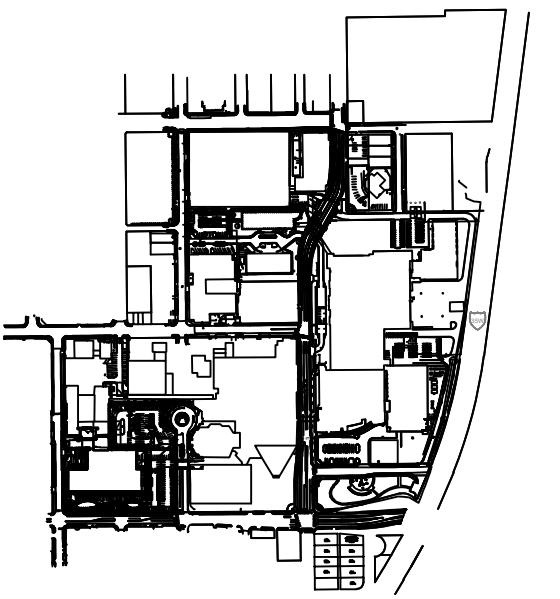
Job No: 2024-0287

Drawing No:

TC104

JPS MFP ABF CAMPUS RING SCOPE INFRASTRUCTURE





KEY PLAN



WILLIAM H. MASTERS
93374
REGISTERED ENGINEER

BURNS ENGINEERING F-4827
09/12/2025

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SHA AUTHENTICATION CODE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

No. Date Revision

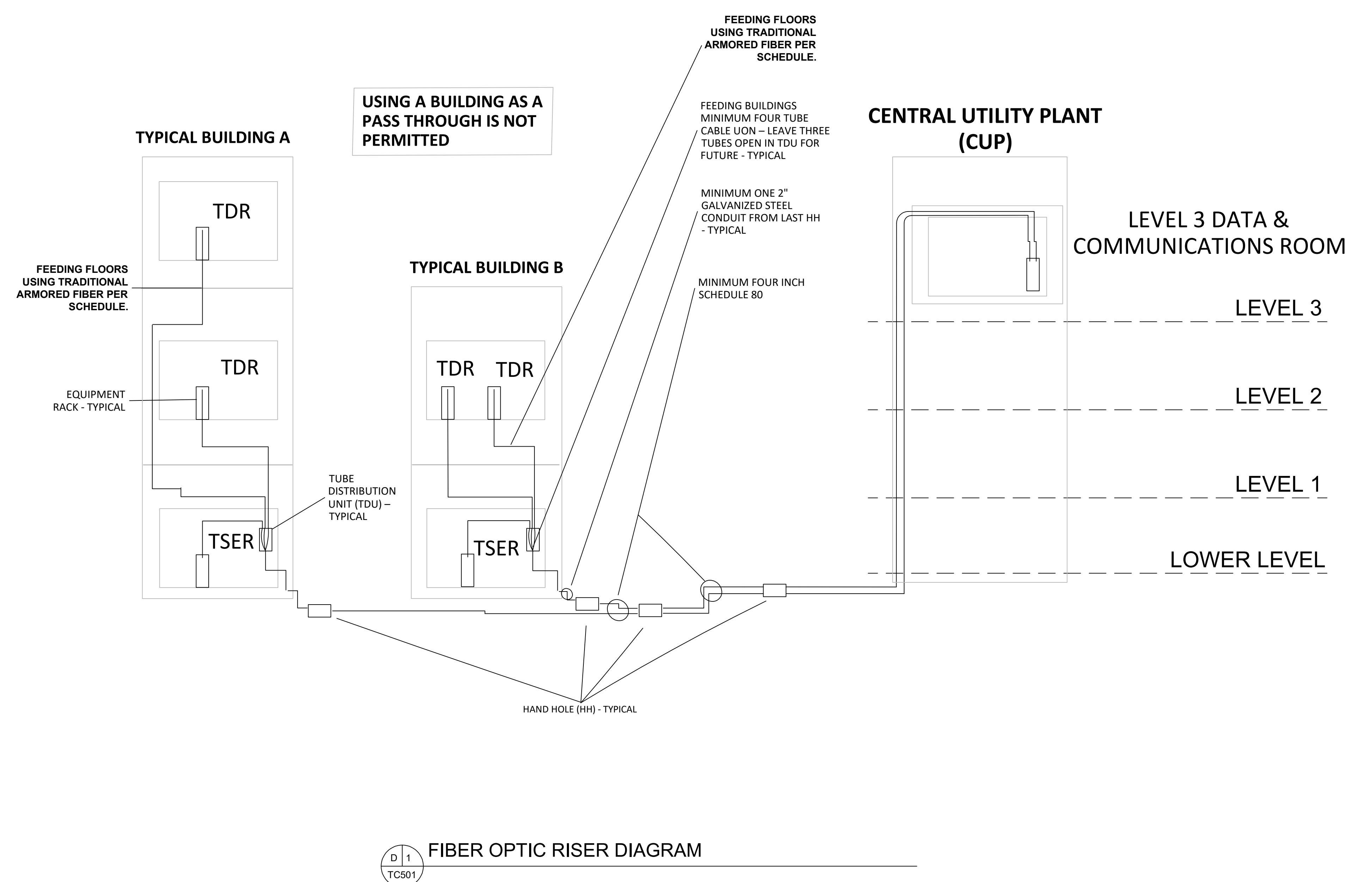
Project Title:
JOHN PETER SMITH
(JPS) CAMPUS
OPTICAL FIBER LOOP

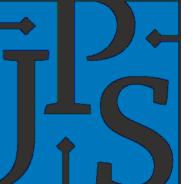
Drawing Title:

TECHNOLOGY RISER DIAGRAM

Date: 09/12/2025
Scale: 1"=100'
Drawn: GF
Checked: MH/PG
Job No: 2024-0287
Drawing No:

TC501





FutureFLEX® TCxxTOX / TCxxTOD DIELECTRIC (OSP) TUBE CABLE SERIES

CONSTRUCTION

SEL Part Number	Product Description	Outside Diameter Inches - (mm)	Max. Weight (lbs./kft.)	Max. Tensile Load (lbs.)
TC01TOX	1 - Tube, Water Blocking Tape, Black Polyethylene Outer Jacket	0.53 - (13.5)	59	200
TC02TOX	2 - Tubes, Water Blocking Tape, Ripcord, Black Polyethylene Outer Jacket	0.81 - (20.6)	90	200
TC04TOD	4 - Tubes, HDPE Central Member, Water Blocking Tape, Ripcord, Black Polyethylene Outer Jacket	0.94 - (23.9)	146	400
TC07TOX	7 - Tubes, Water Blocking Tape, Ripcord, Black Polyethylene Outer Jacket	1.14 - (29.0)	203	400
TC12TOX	12 - Tubes, Water Blocking Tape, Ripcord, Black Polyethylene Outer Jacket	01.46 - (37.1)	300	400
TC19TOX	19 - Tubes, Water Blocking Tape, Ripcord, Black Polyethylene Outer Jacket	1.77 - (45.0)	444	500
TC24TOX	24 - Tubes, Water Blocking Tape, Ripcord, Black Polyethylene Outer Jacket	2.0 - (50.8)	650	500

Tube Construction: High-Performance Black Polyethylene. Tube Diameters: O.D. 8mm, I.D. 6mm

TCxxTOX and TC04TOD: Designed for all normal OSP environments in duct and in direct buried applications.

Tube Cable Ends: Both ends of the tube cable are accessible on the reel. Each tube is sealed with a plastic cap or plug. Tube cable ends are sealed with a heat shrink end cap.

Reel Markings: The outside of each flange is marked with the Sumitomo Electric Lightwave Corp. product part number, the tube cable manufactured length in feet, and the text "Do Not Lay Flat" and "Forklift from Flanges Only."

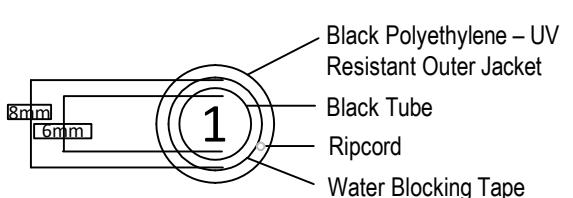
TUBE CABLE (1000ft. 3000ft.) REEL LENGTHS								
SEL Part Number	Reel F x W (Inches)		Minimum Drum Diameter (Inches)		Empty Reel Weight (lbs.)		Full Reel Weight (lbs.)	
	1000ft.	3000ft.	1000ft.	3000ft.	1000ft.	3000ft.	1000ft.	3000ft.
TC01TOX	54 x 16	60 x 42	40	40	116	420	175	597
TC02TOX	54 x 16	60 x 42	40	40	116	420	203	682
TC04TOD	54 x 16	60 x 42	40	40	116	420	253	831
TC07TOX	54 x 32	60 x 42	40	40	137	420	342	1035
TC12TOX	60 x 42	72 x 45	40	36	420	543	720	1443
TC19TOX	60 x 42	72 x 45	40	36	420	543	863	1872
* TC24TOX	72 x 45	* 72 x 45	36	* 36	543	*543	1193	* 2493

* NOTE: TC24TOX: is only available in 1000ft. and 2000ft. Reel Sizes.

TUBE CABLE MARKINGS: The outside surface of each jacketed cable is marked every two (2) feet with the following product identification information:

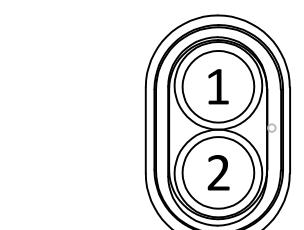
SEL FutureFLEX® (SEL Part No.) (#)-Tube Dielectric OSP Optical Fiber Cable, A-(Lot #1, -2, -3, etc.) (Seq. Ftg.) 1-877-356-FLEX WWW.SUMITOMOELECTRICLIGHTWAVE.COM

PERFORMANCE	
Property	Specification
Operation Temperature Range	-40°F to +158°F (-40°C to +70°C) [per ICEA 640]
Minimum Bend Radius During / After Installation	During Installation -X Cable O.D. After Installation -X Cable O.D.

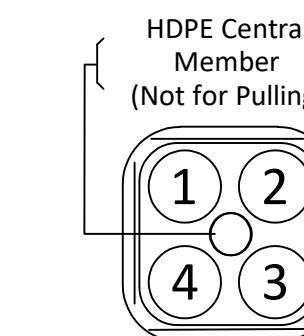


All Drawings
Not to Scale

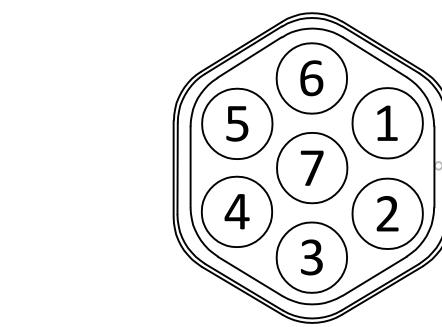
TC01TOX



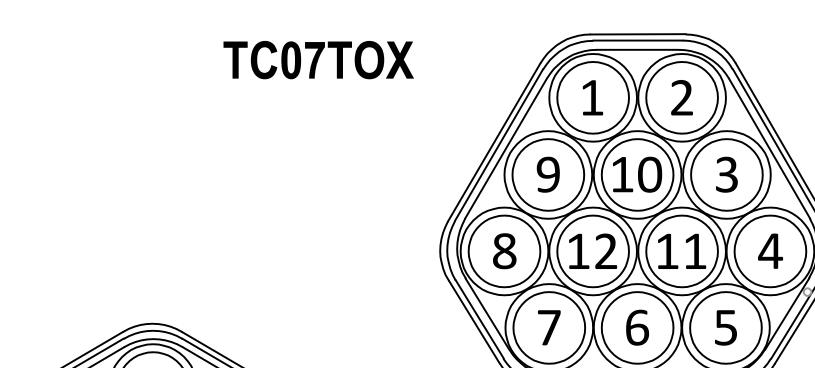
TC02TOX



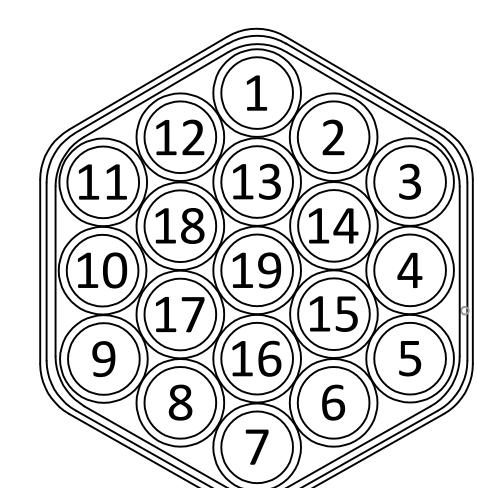
TC04TOD



TC07TOX

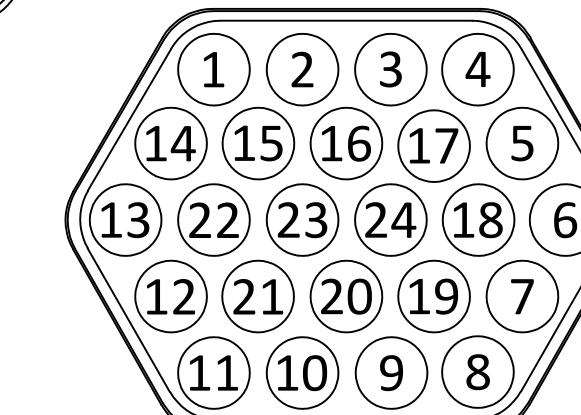


TC12TOX

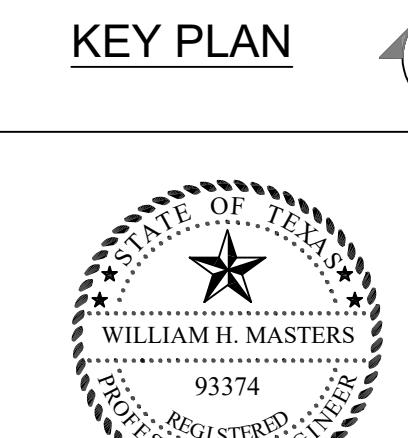
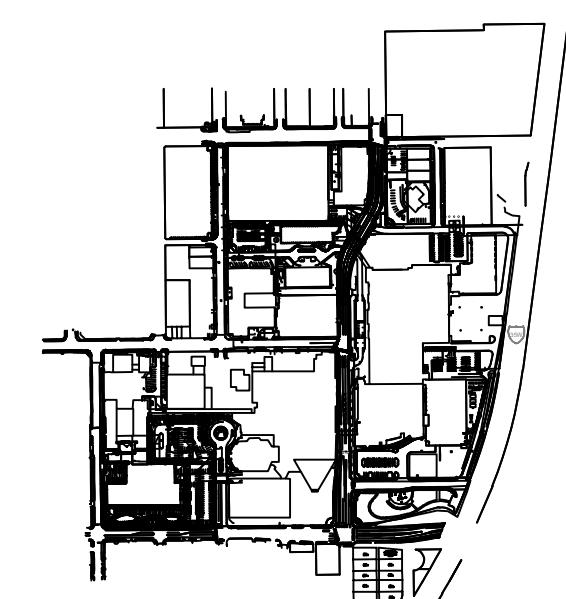


All Drawings
Not to Scale

TC19TOX



TC24TOX



BURNS ENGINEERING F-4827
09/12/2025

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SHA AUTHENTICATION CODE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

No. Date Revision

Project Title:
JOHN PETER SMITH
(JPS) CAMPUS
OPTICAL FIBER LOOP

Drawing Title:

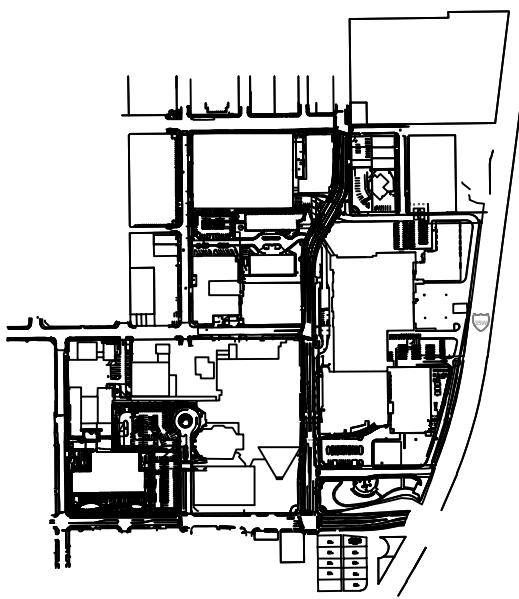
TECHNOLOGY
DETAILS

Date: 09/12/2025
Scale: 1"=100'
Drawn: GF
Checked: MH/PG
Job No: 2024-0287
Drawing No:

TC502

ABF TUBE SIZING CHART AND PART NUMBERS DETAIL

D 1
TC502



KEY PLAN



PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SHA AUTHENTICATION CODE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

No. Date Revision

Project Title:

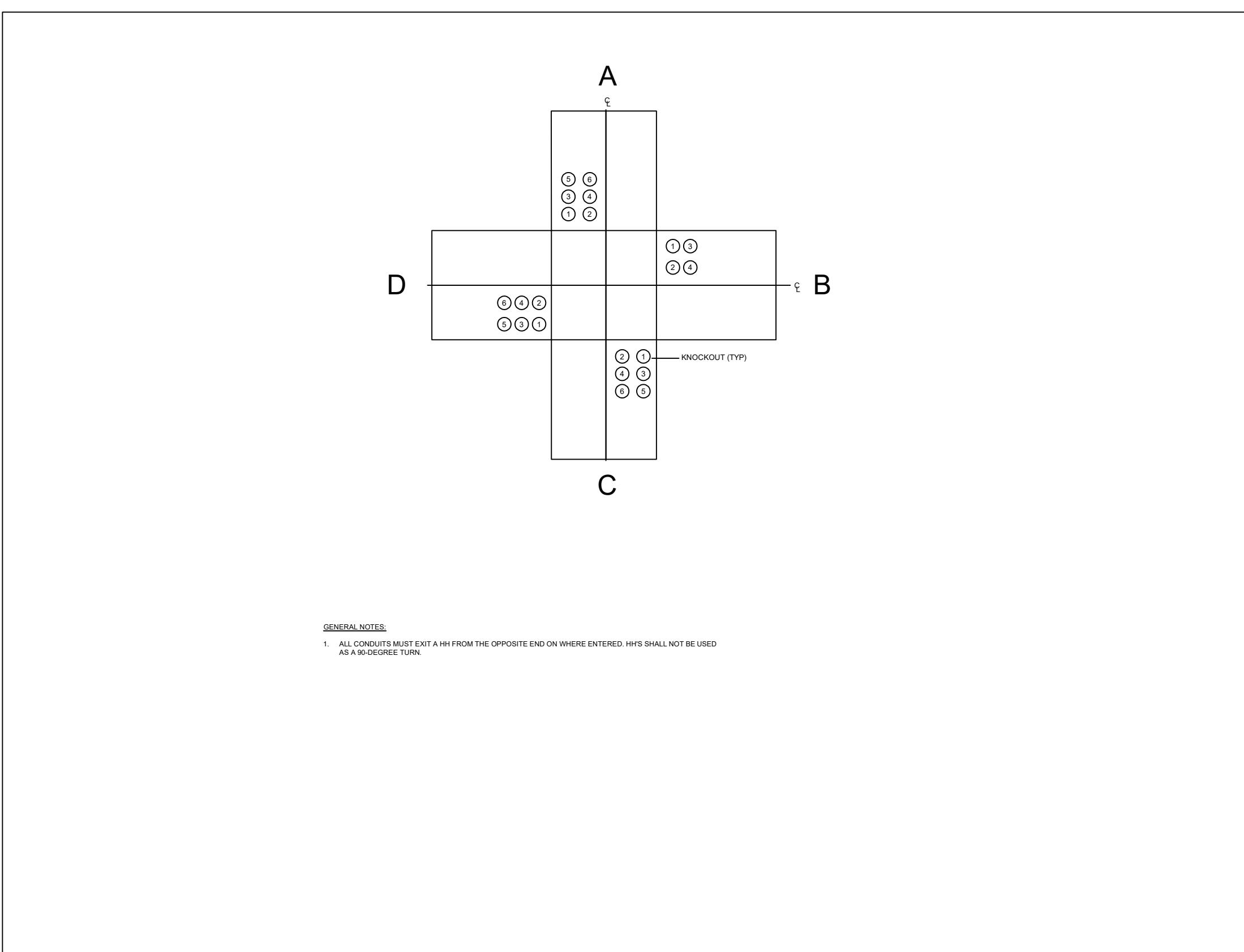
JOHN PETER SMITH
(JPS) CAMPUS
OPTICAL FIBER LOOP

Drawing Title:

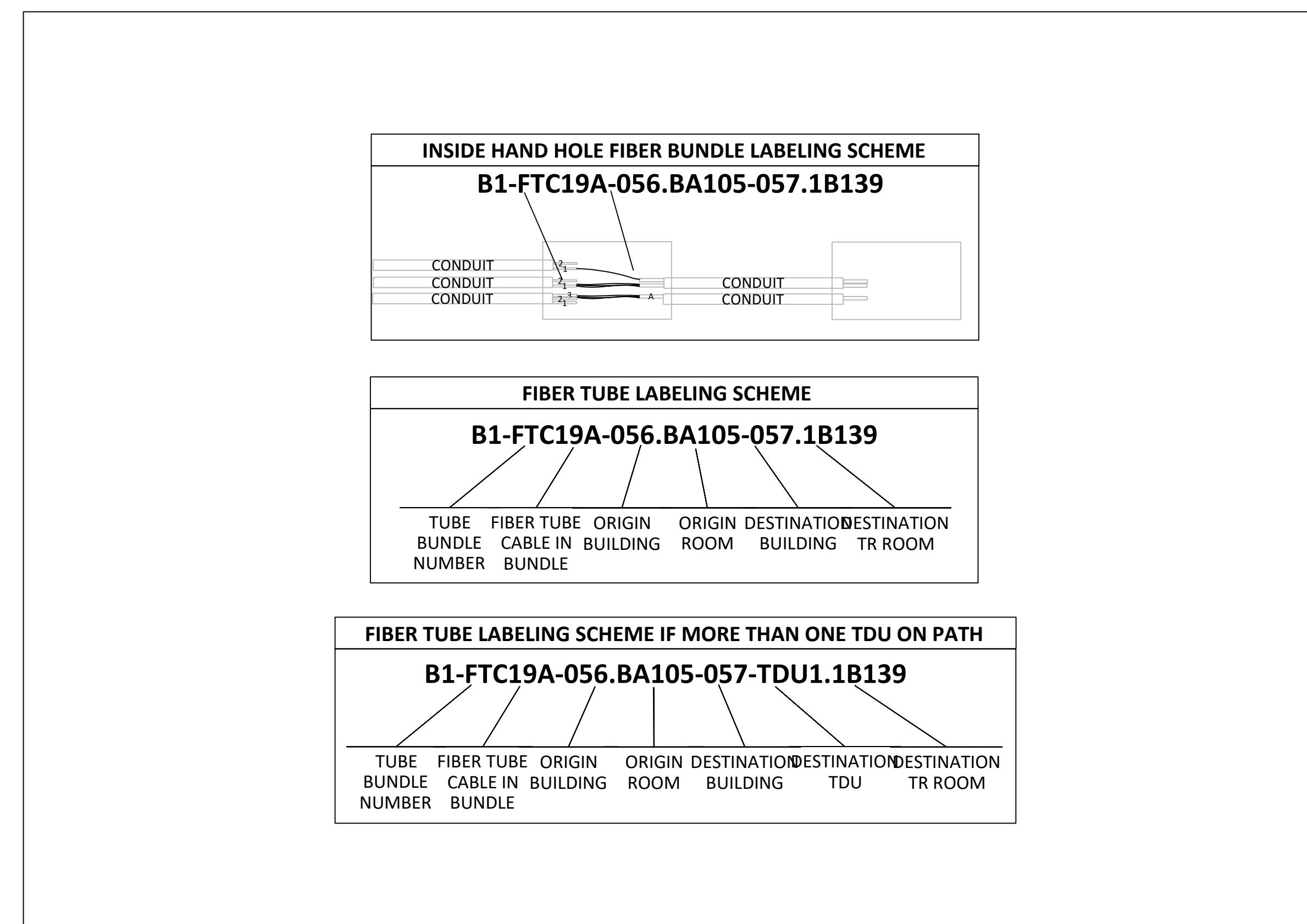
TECHNOLOGY
DETAILS

Date: 09/12/2025
Scale: 1"=100'
Drawn: GF
Checked: MH/PG
Job No: 2024-0287
Drawing No:

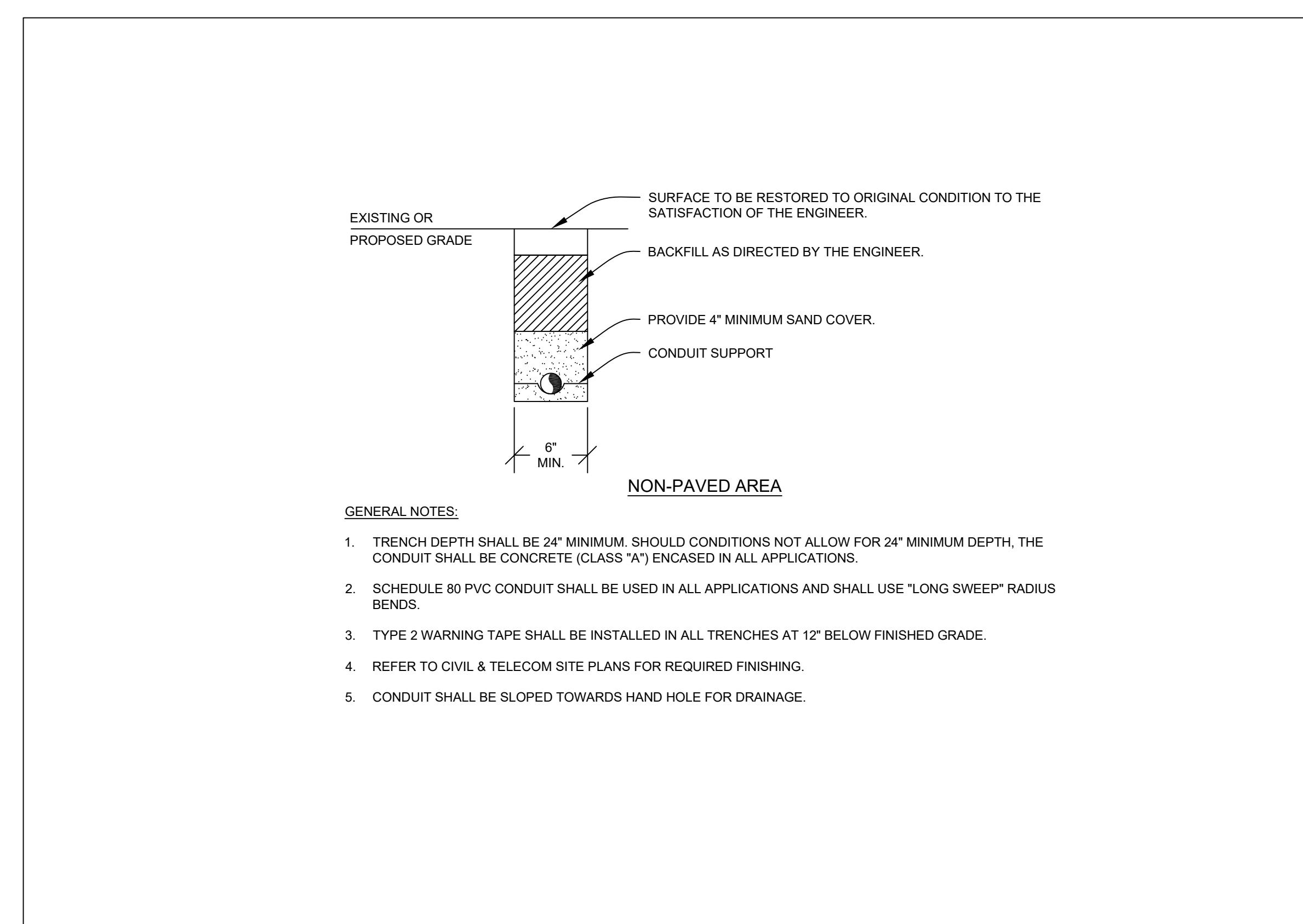
TC503



D 1
TC503
TYPICAL HANDHOLE BUTTERFLY LAYOUT DETAIL



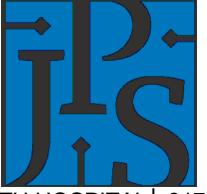
D 2
TC503
ABF LABELING SCHEMA DETAIL



D 3
TC503
TRENCHING AND CONDUIT PLACEMENT DETAIL

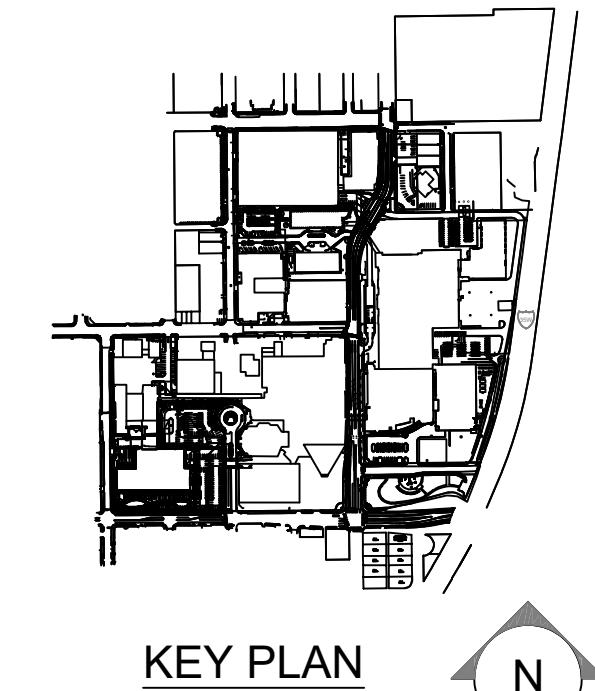
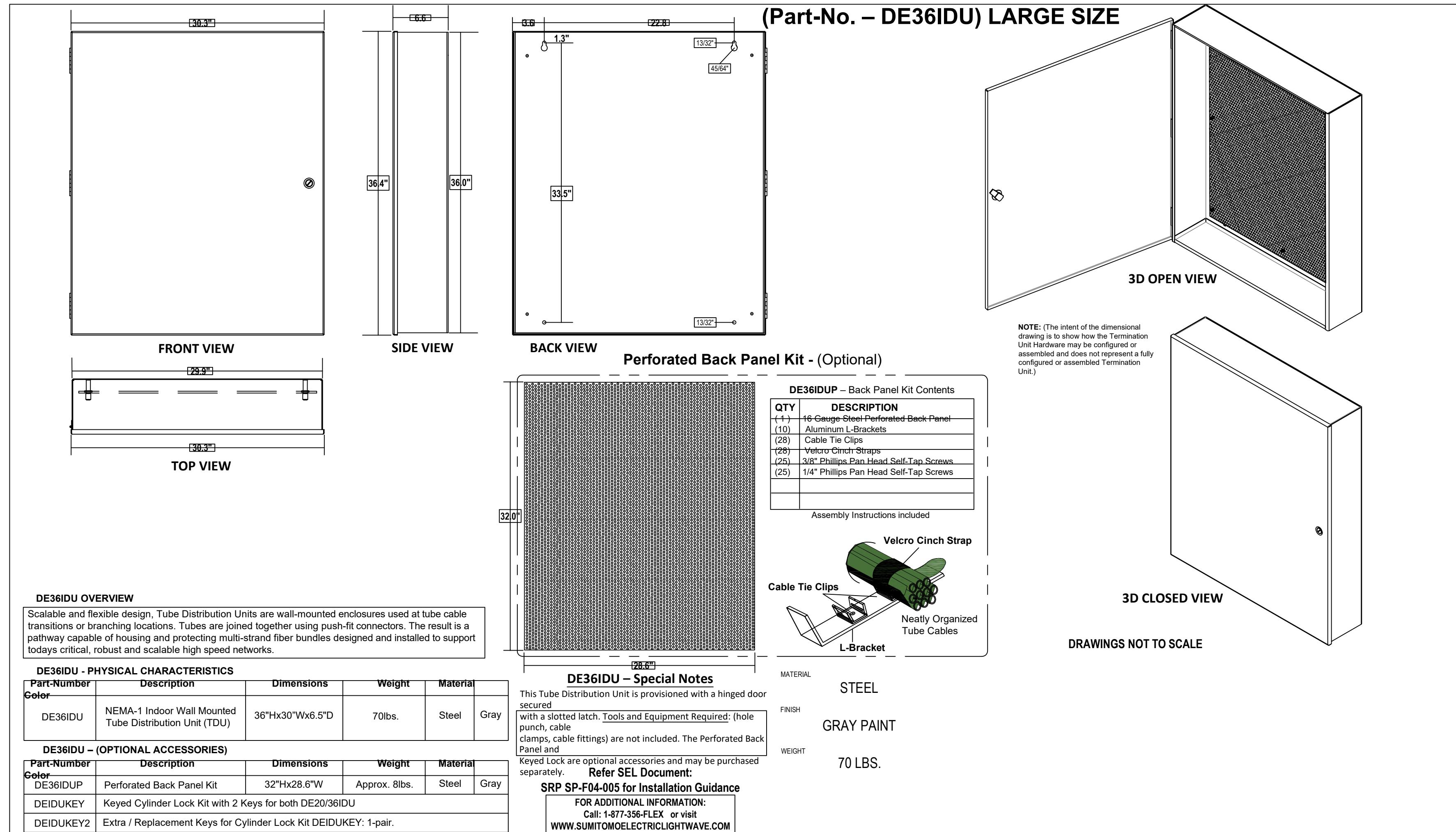


BURNS ENGINEERING, INC. | 407 214-6412
201 SOUTH ORANGE AVENUE SUITE 940
ORLANDO, FL 32801



JPS HEALTH HOSPITAL | 817-702-3431
1500 s. Main Str.
Fort Worth, TX 76104

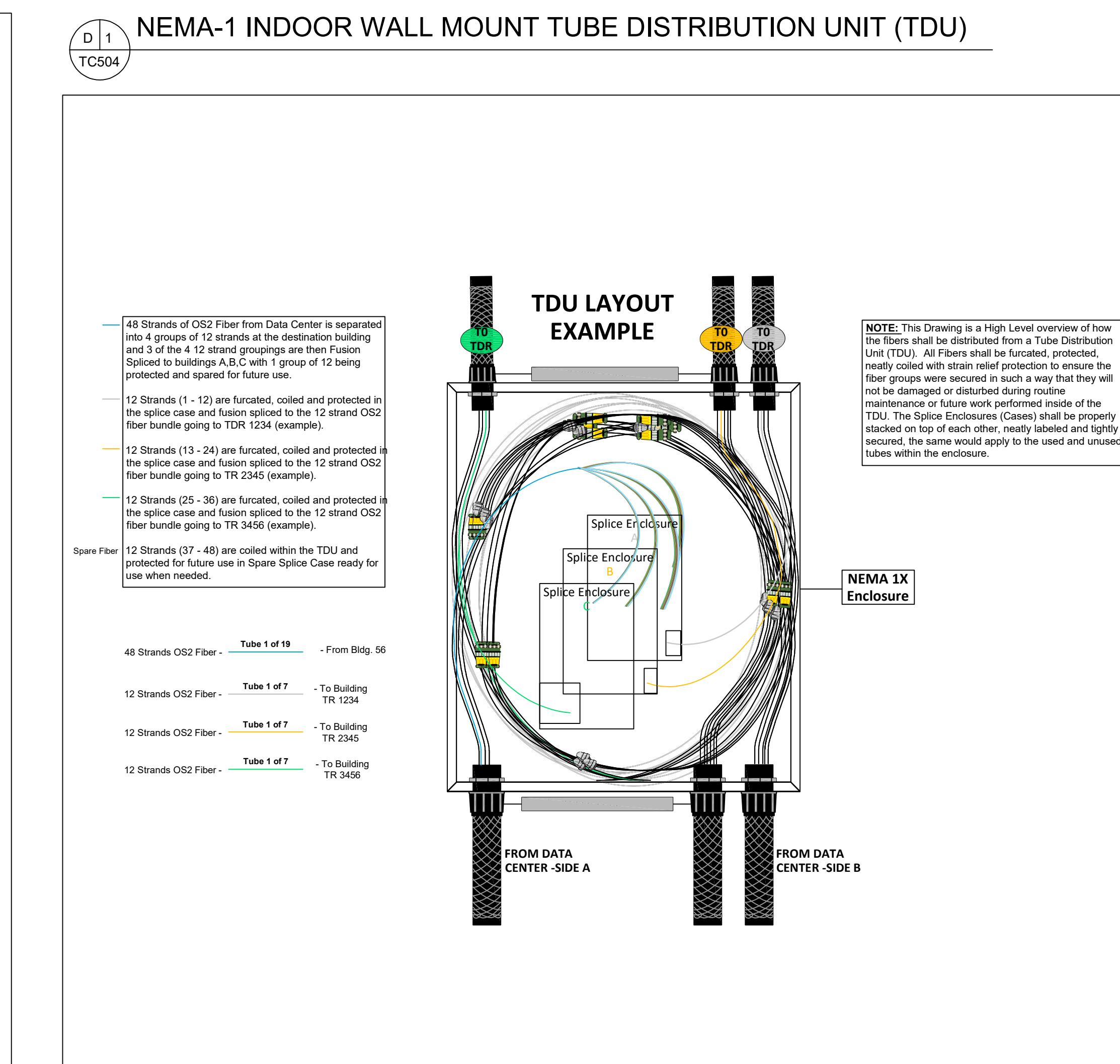
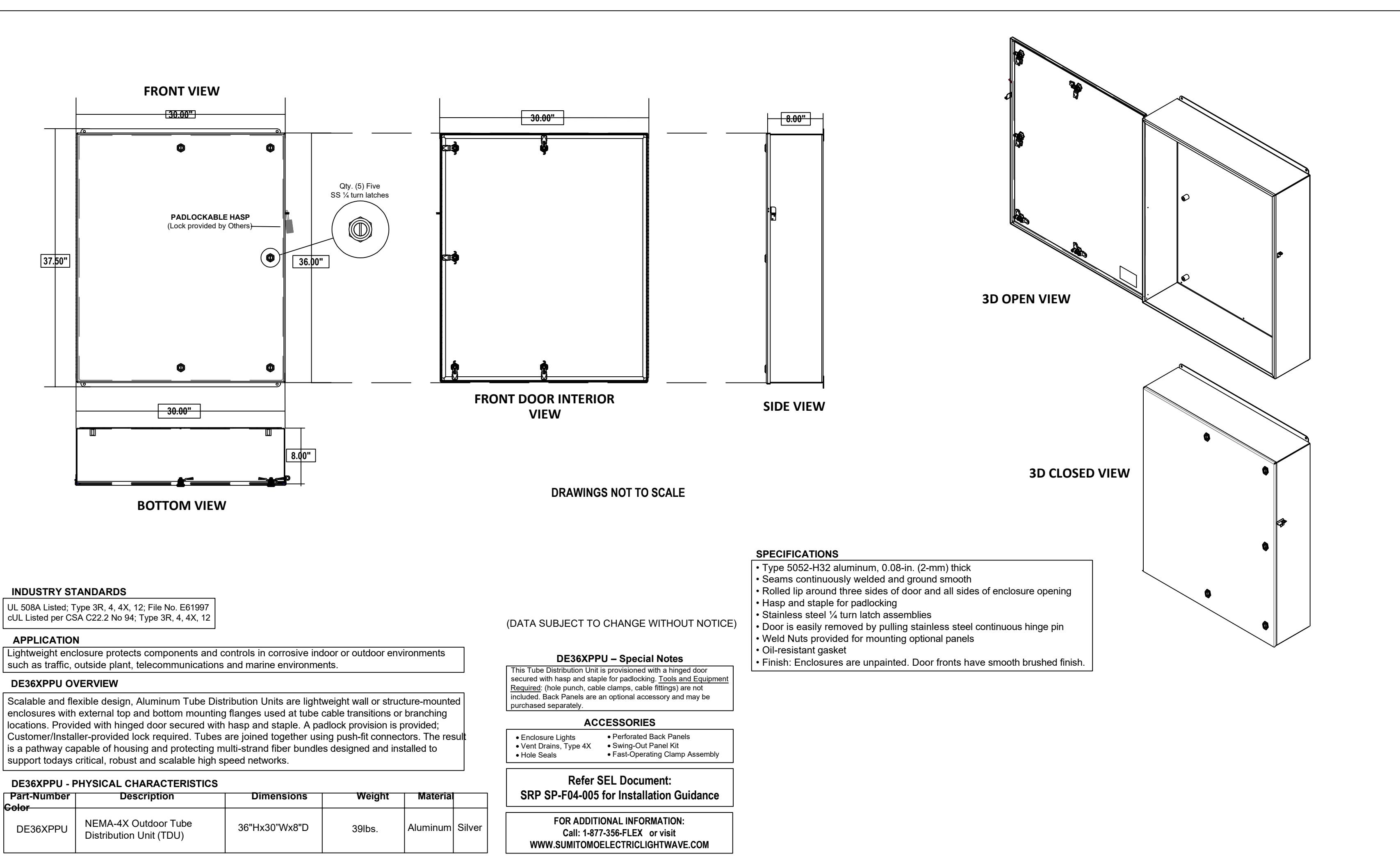
(Part-No. – DE36IDU) LARGE SIZE



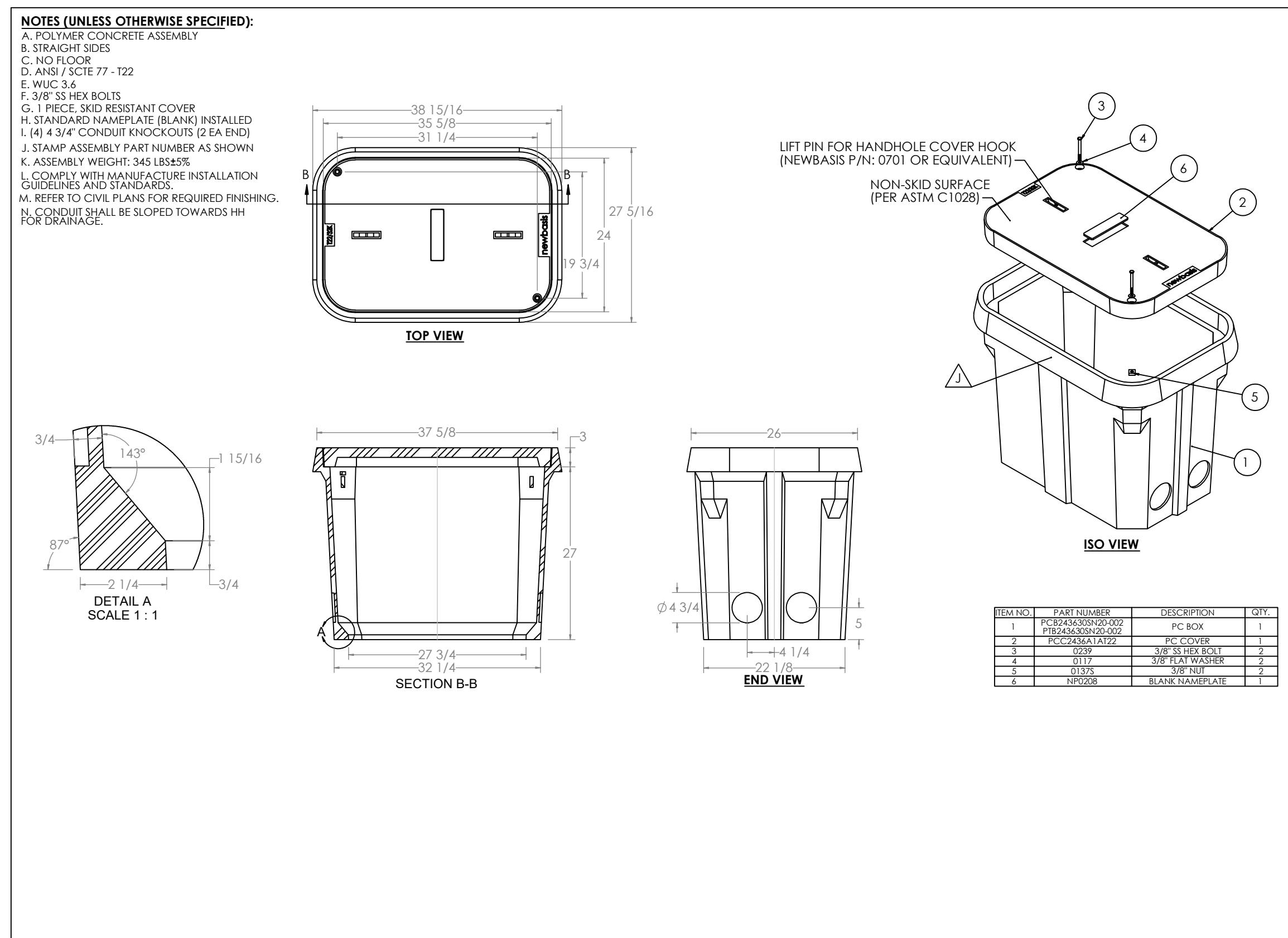
KEY PLAN



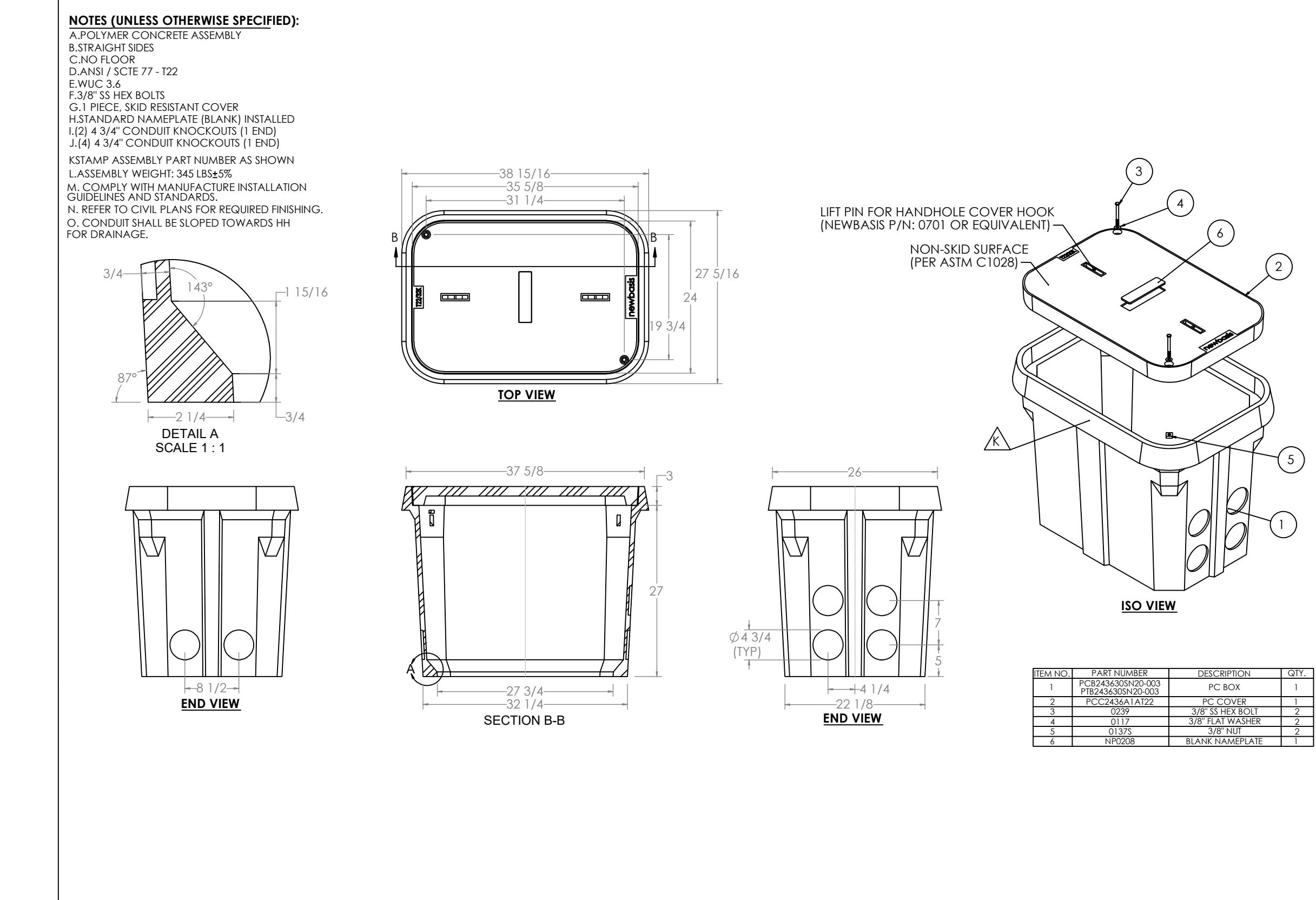
BURNS ENGINEERING F-4827
09/12/2025



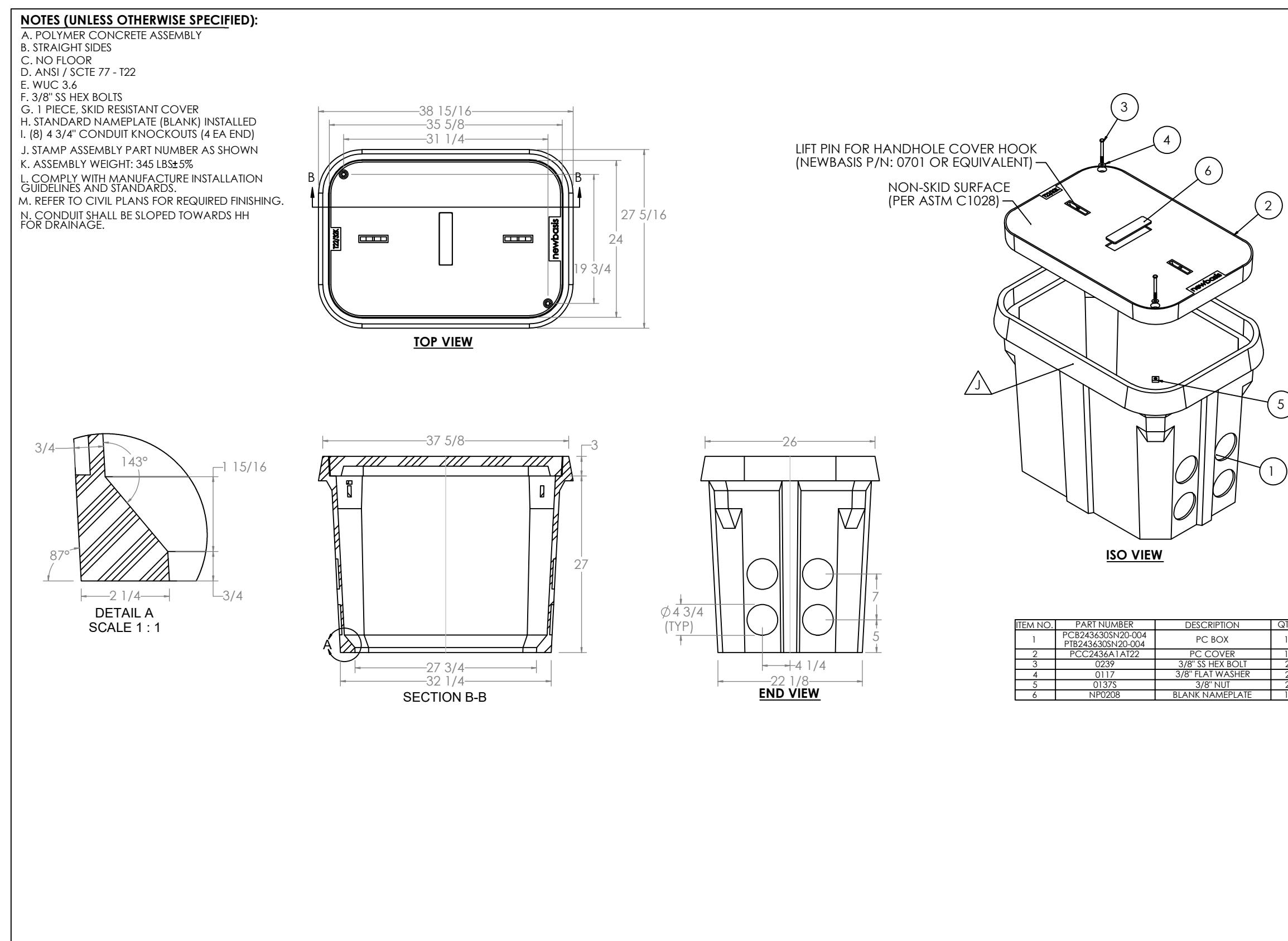
(EXAMPLE) TDU SPLICE DETAIL



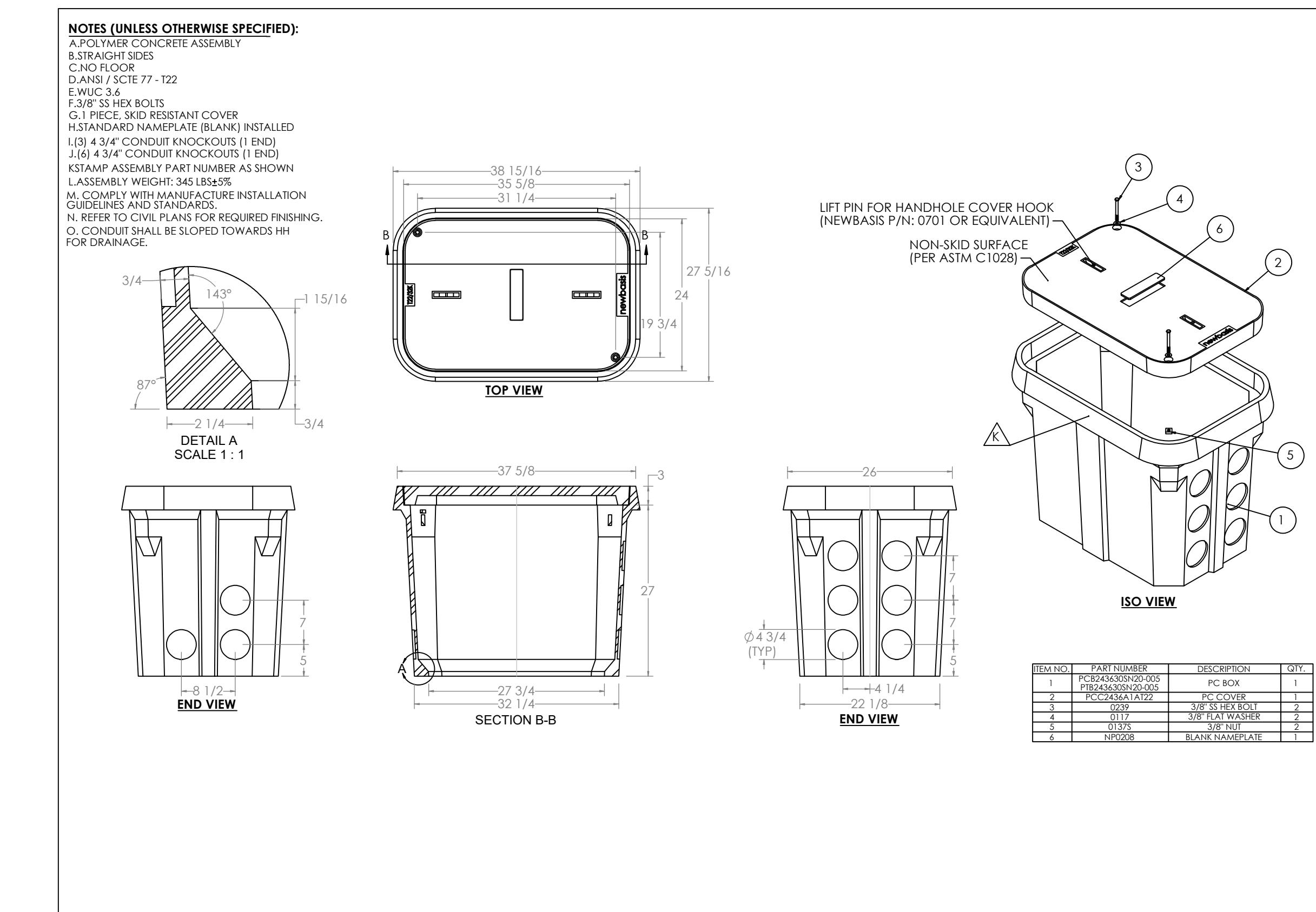
D 1 HANHOLES 01,02,03,06,10,14,21,24,25 DETAIL
TC505



D 2 HANHOLES 04,05,08,12,13,16,17,18,22,23 DETAIL
TC505



D 3 HANHOLES 07, 15 DETAIL
TC505



D 4 HANHOLE 09 DETAIL
TC505

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SHA AUTHENTICATION CODE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

No. Date Revision

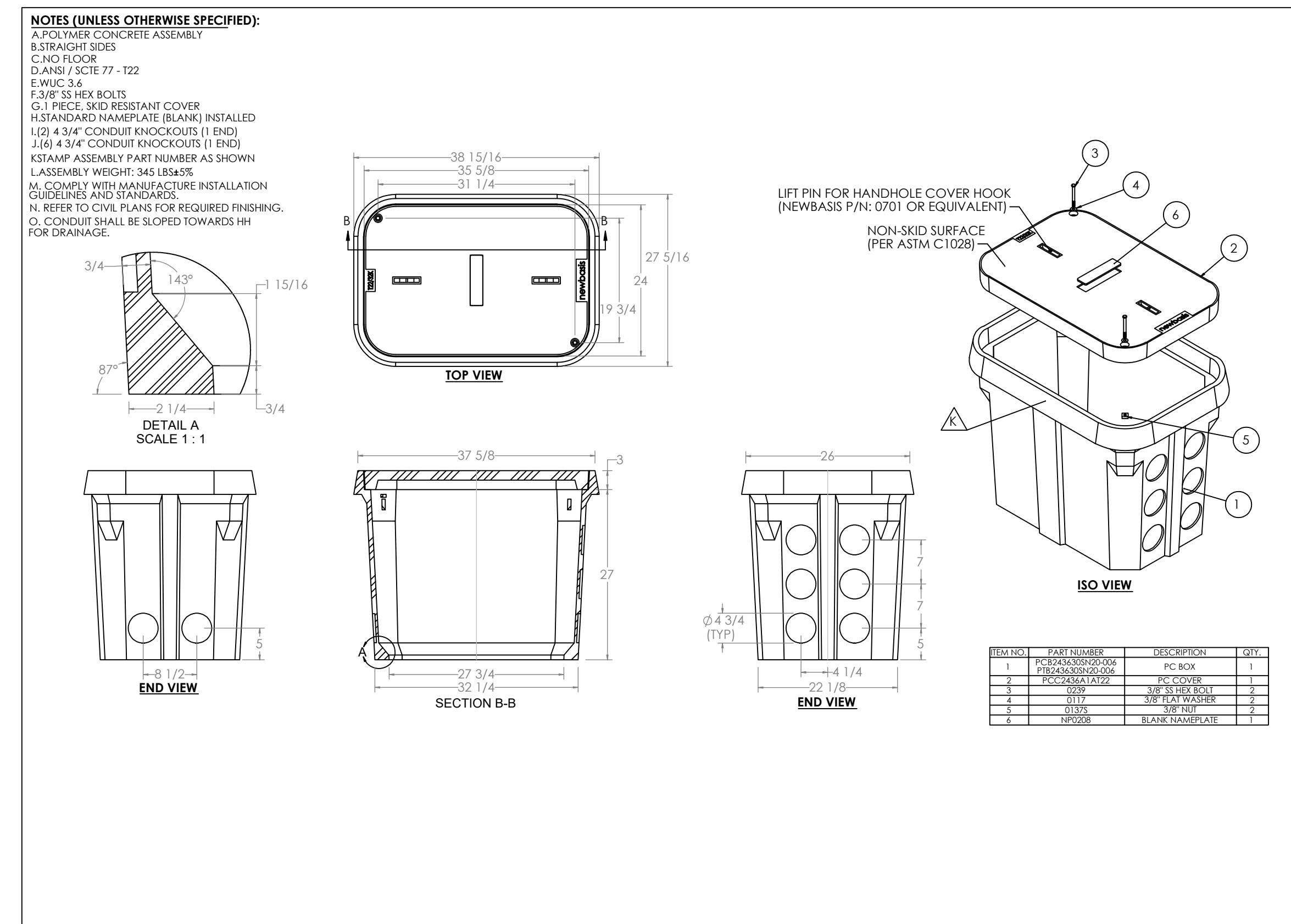
Project Title:
**JOHN PETER SMITH
(JPS) CAMPUS
OPTICAL FIBER LOOP**

Drawing Title:

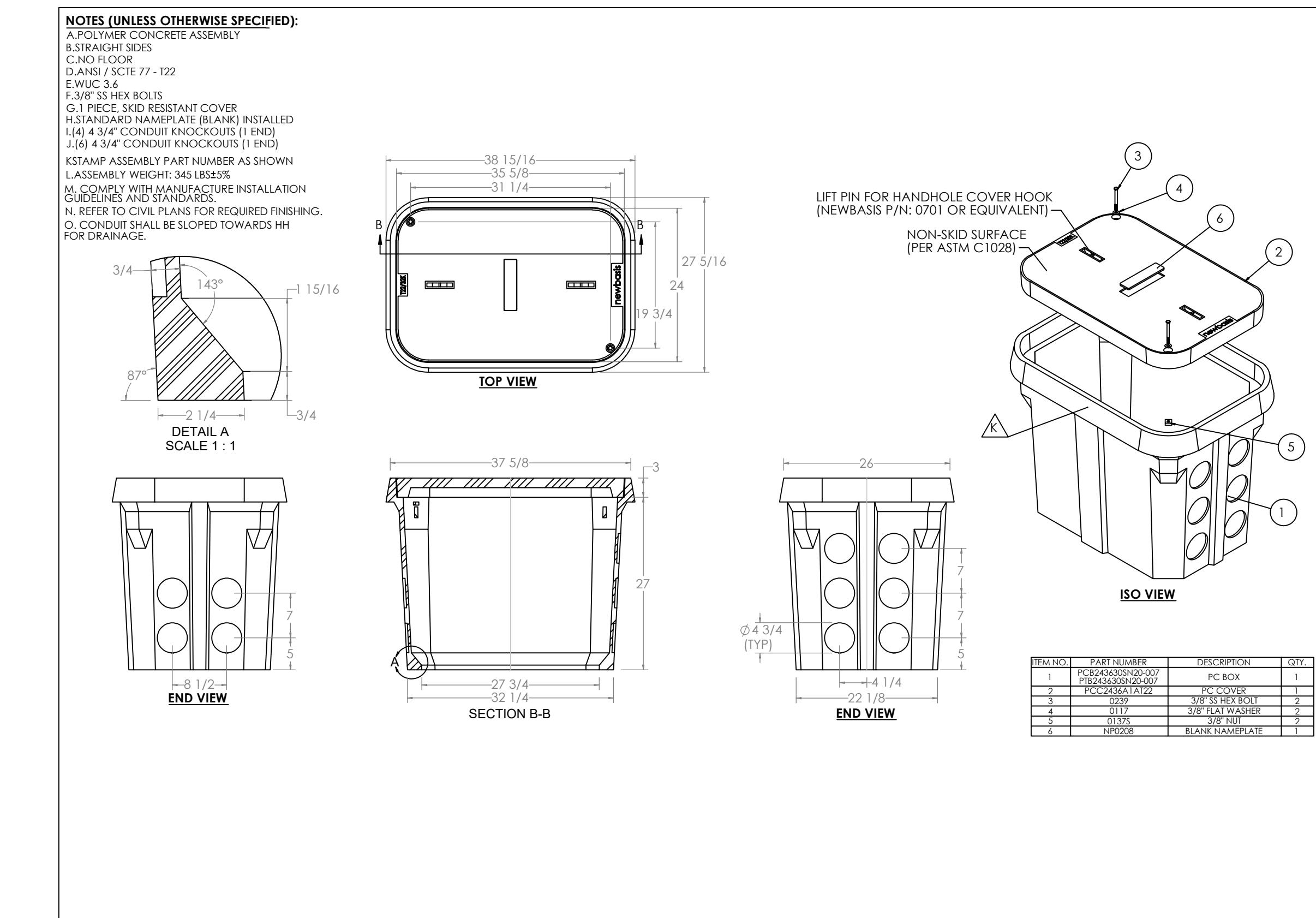
**TECHNOLOGY
DETAILS - HANHOLE'S**

Date: 09/12/2025
Scale: 1"=100'
Draw: GF
Checked: MH/PG
Job No: 2024-0287
Drawing No:

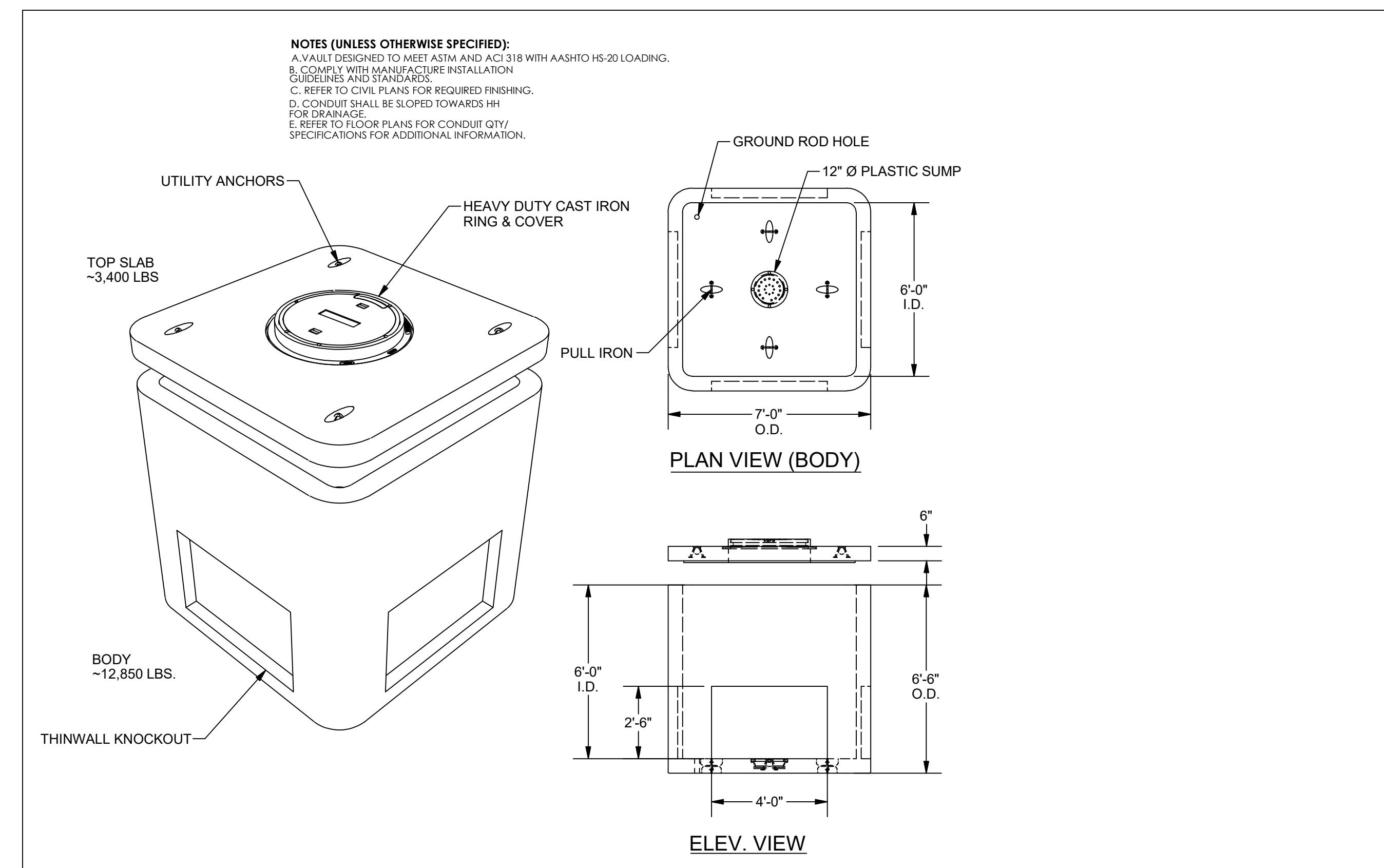
TC505



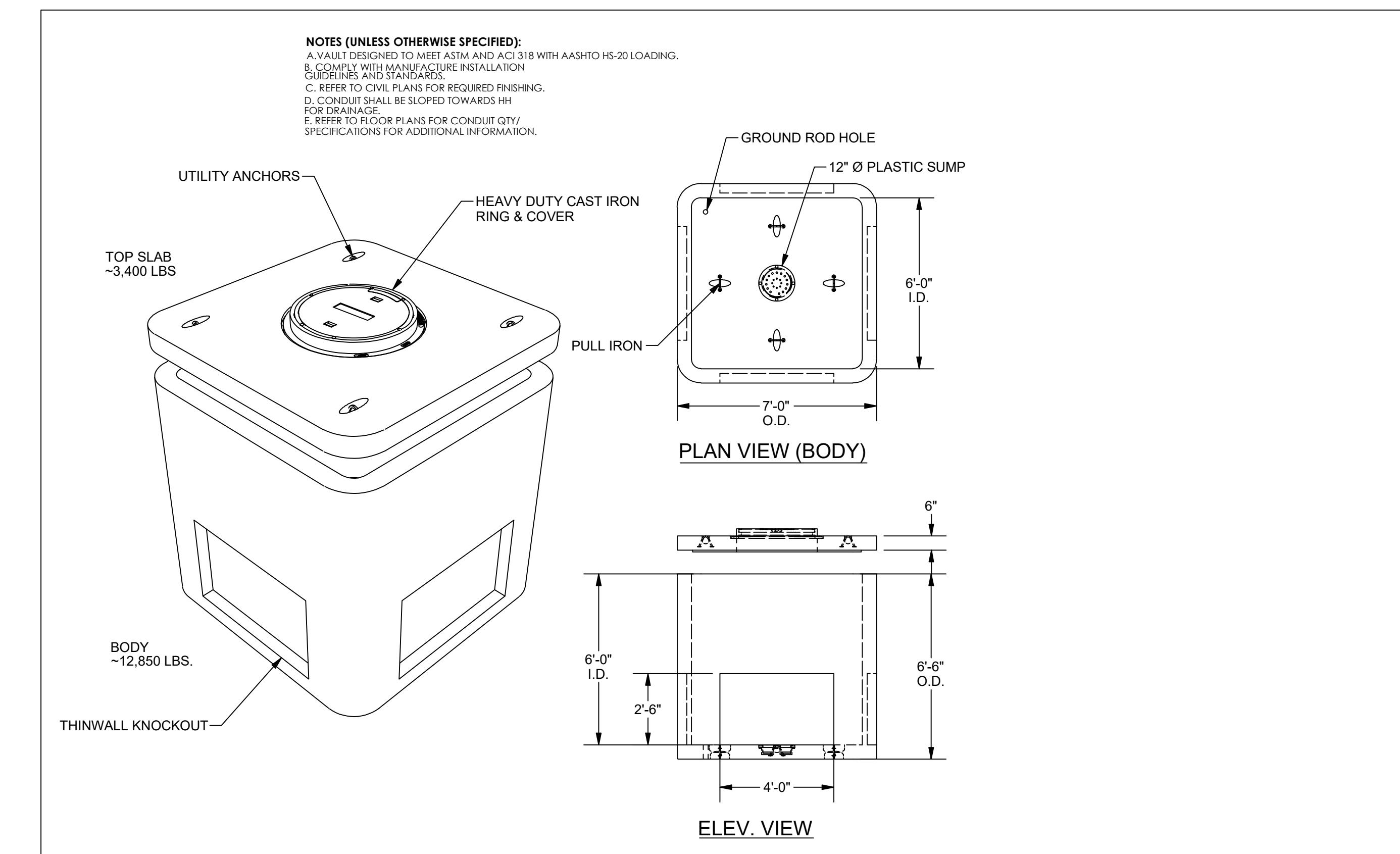
HANDHOLES 11,20
D 1
TC506



HANDHOLE 19
D 2
TC506



VAULT 01 DETAIL - 6x6x6
D 3
TC506



VAULT 02 DETAIL - 6x6x6
D 4
TC506

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SHA AUTHENTICATION CODE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

No. Date Revision

Project Title:
**JOHN PETER SMITH
(JPS) CAMPUS
OPTICAL FIBER LOOP**

Drawing Title:

**TECHNOLOGY
DETAILS - HANDHOLE'S /
VAULT'S**

Date: 09/12/2025

Scale: 1"=100'

Drawn: GF

Checked: MH/PG

Job No: 2024-0287

Drawing No:

TC506

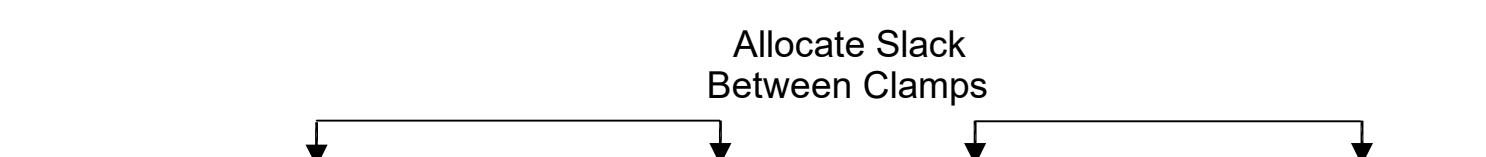
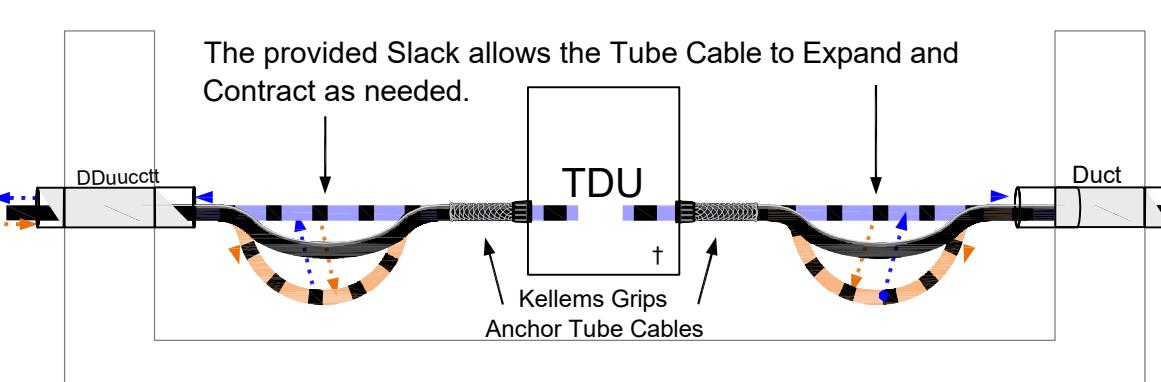
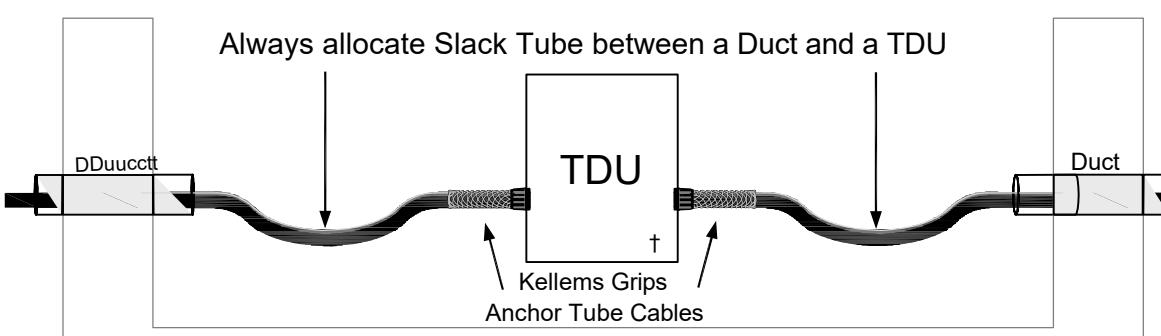
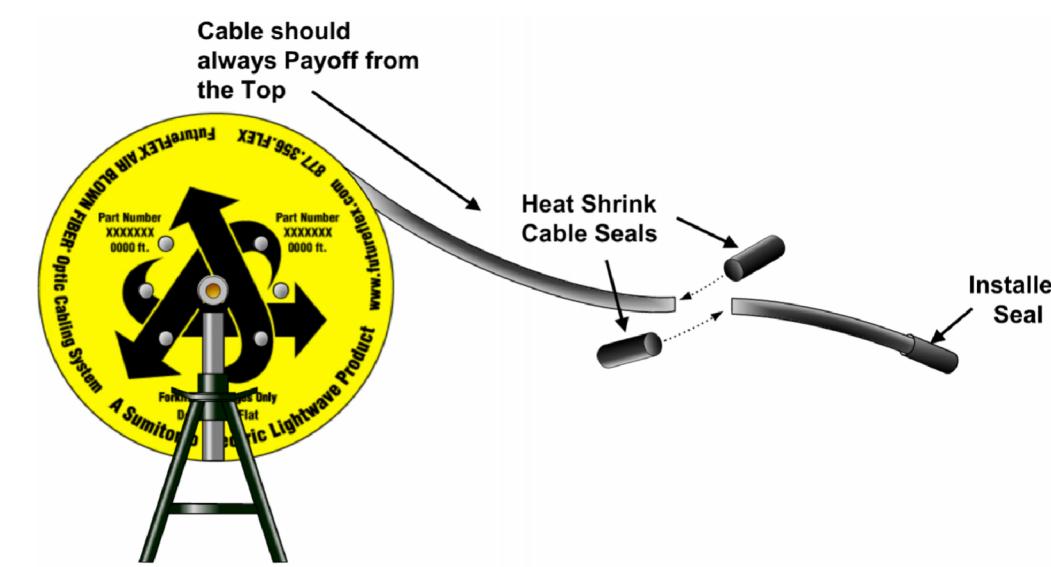


GENERAL NOTES

A. NOT ALL INFORMATION IS APPLIED TO DETAIL FIGURES. REFER TO SUMITOMO RECOMMENDED PROCEDURE (SRP SP-F04-008) FOR ADDITIONAL INFORMATION.

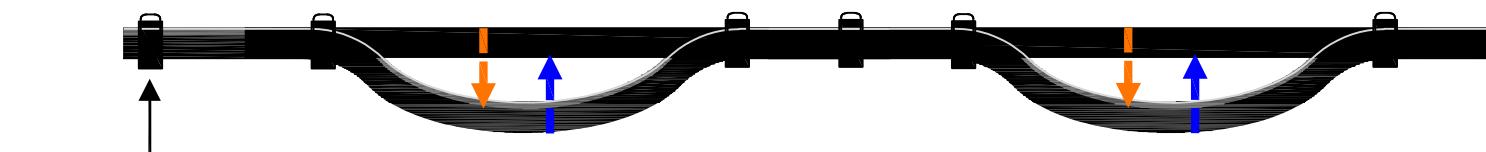
Always
Store and Transport
Reels Vertical

Never
Lay Horizontal



Avoid the use of clamps with sharp edges and Never Over-Tighten

Always Allow the Cable to Expand and Contract as Necessary



Consider the use of a Hook & Loop type fastener for securing the Tube Cable
Regardless of the method used for fastening, the final result should never cause binding, kinking or damaging of the cable, especially if it is known that the installed Tube Cable will be subjected to dramatic ambient air temperature swings.

TUBE CABLE REEL HANDLING

TUBE CABLE REEL SET-UP

MANAGING TUBE CABLE MOVEMENTS IN HH

TUBE CABLE MOVEMENTS - SUPPORTED ROUTE

IMPORTANT: All Clamps should be Installed Loose and Not with the intention of keeping it pinned or locked in place.

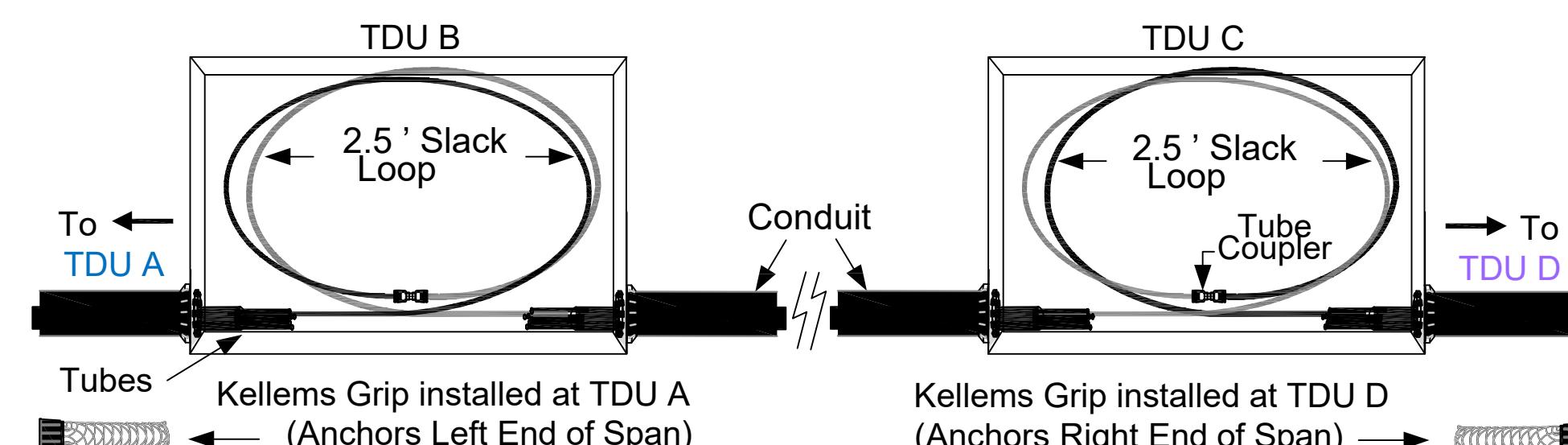
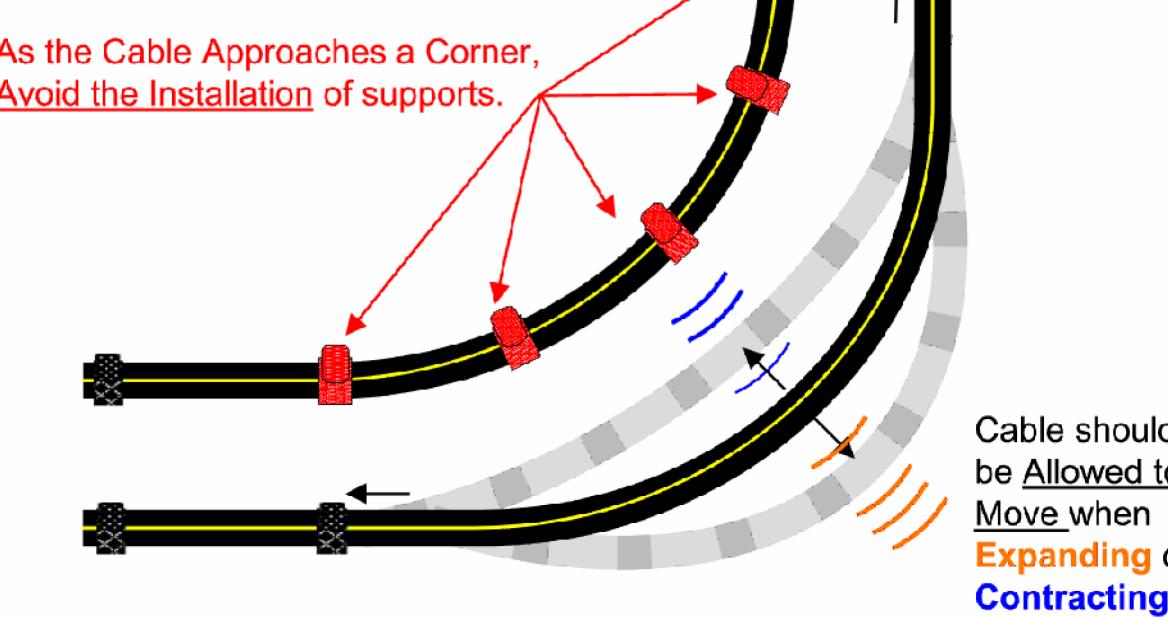
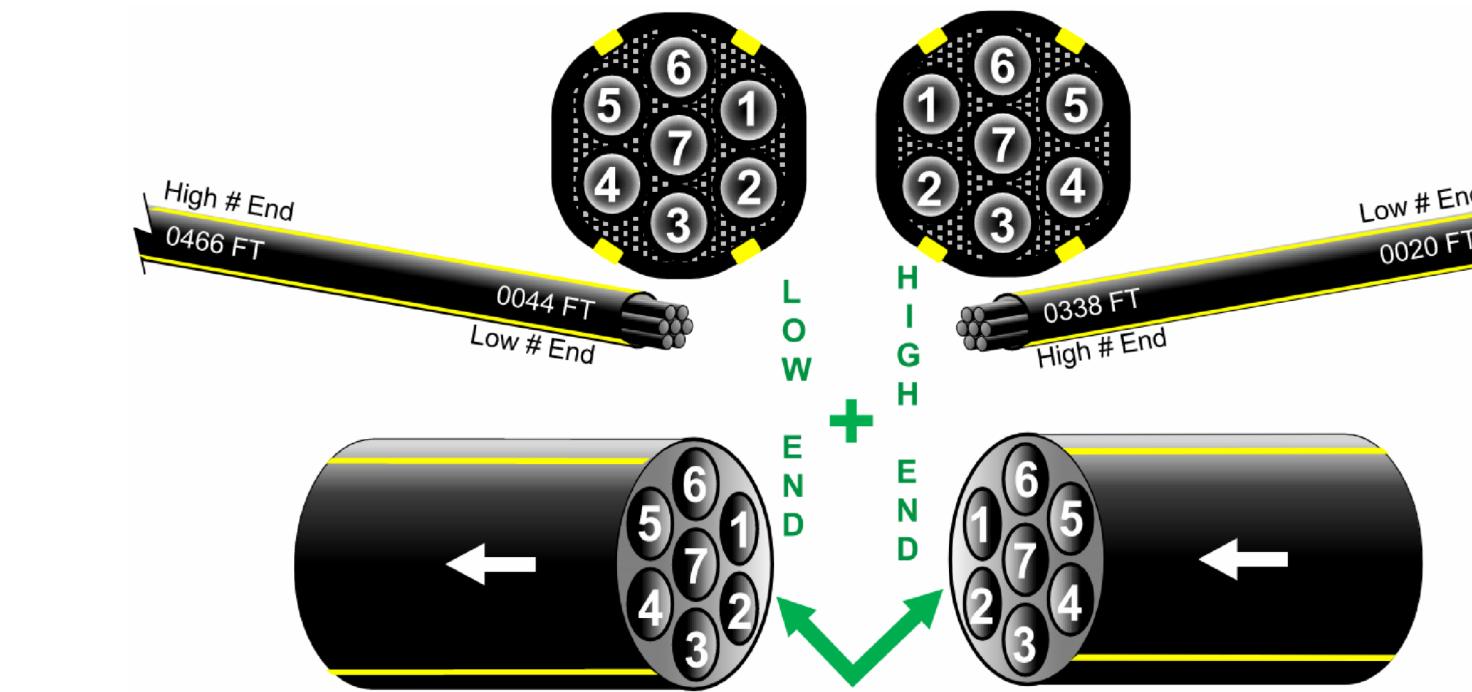
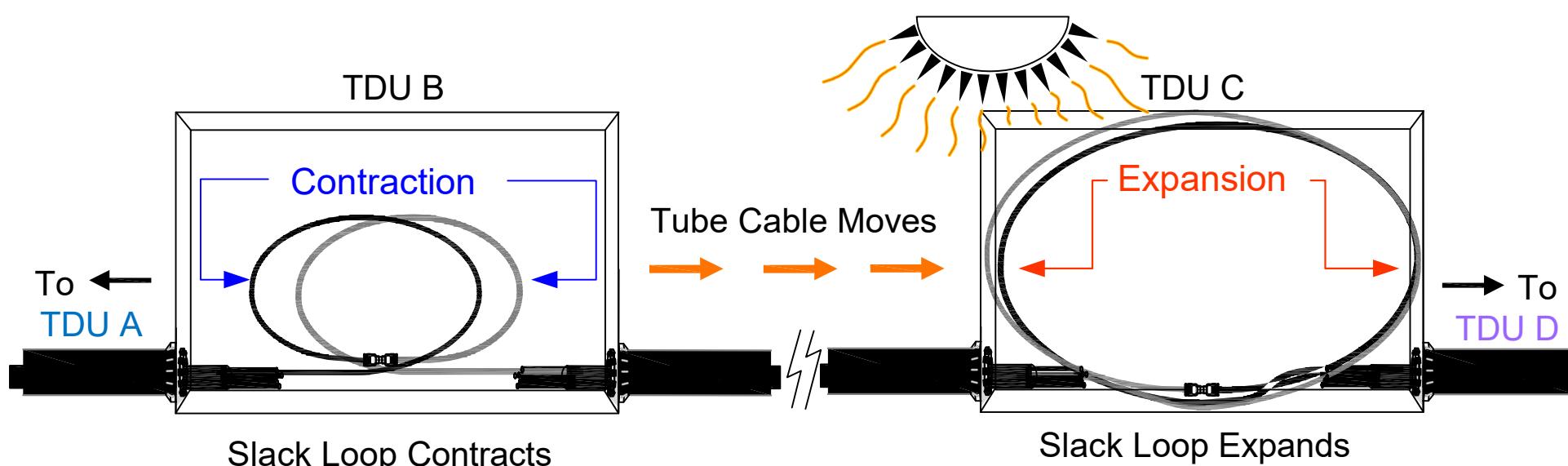


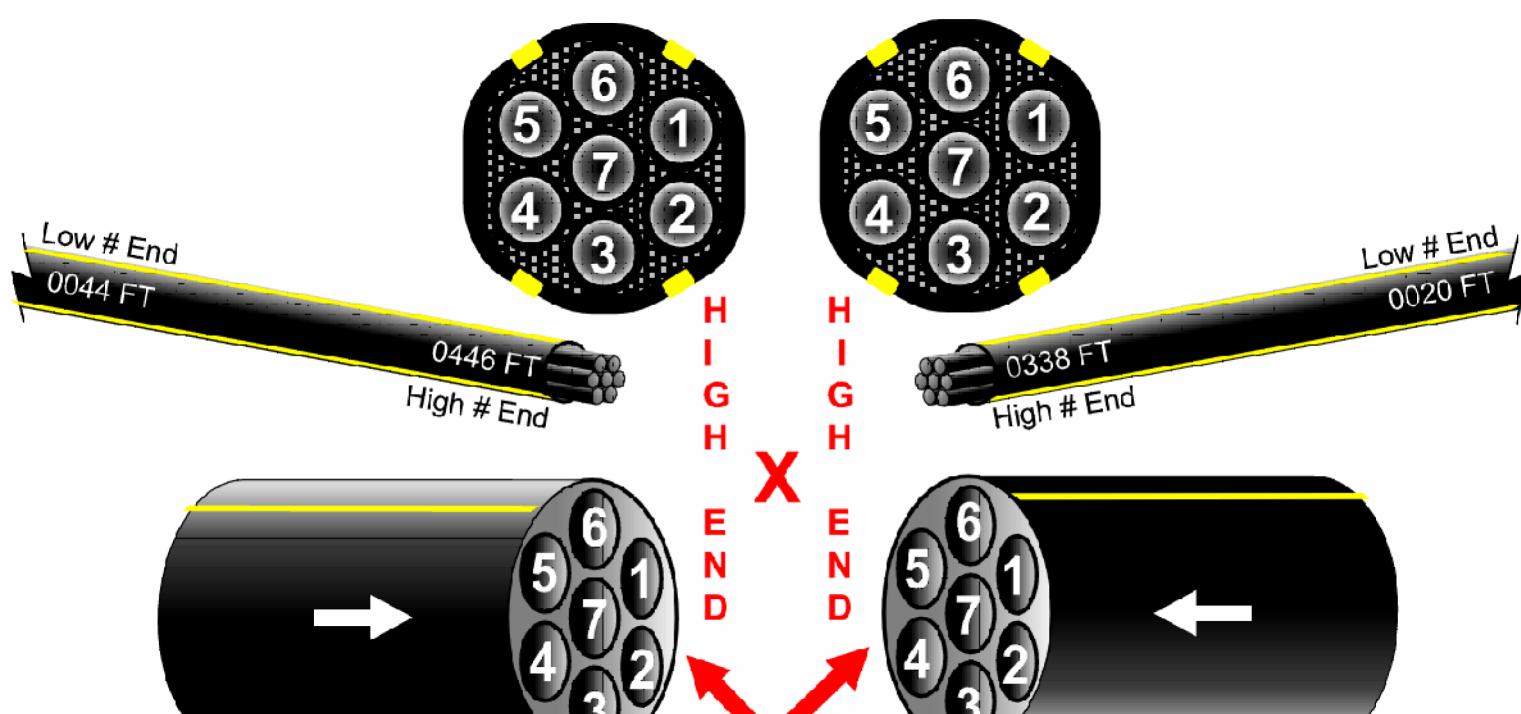
Figure 7A
Managing Tube Cable Slack in a Conduit Route



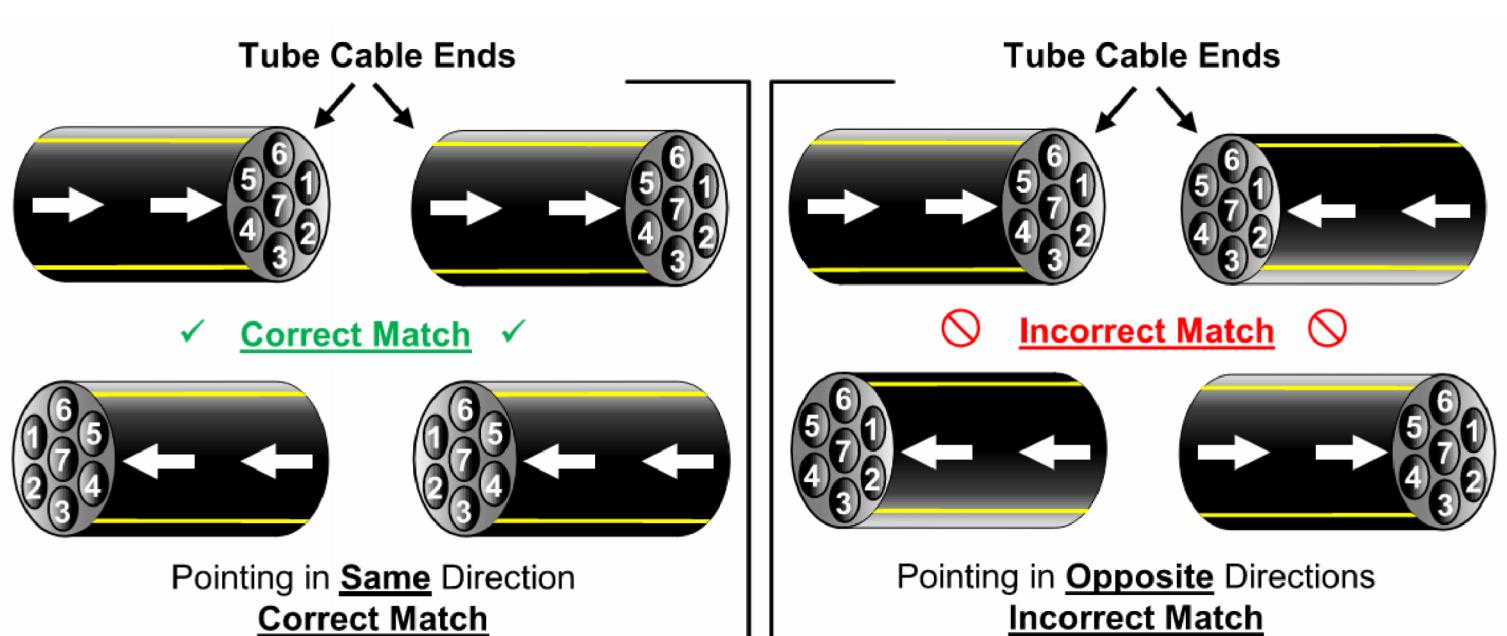
CORRECT TUBE ORIENTATION AT SPLICE POINT
STRAIGHT-THROUGH TUBE CONNECTIONS

TUBE CABLE MOVEMENTS IN A BEND OR CORNER

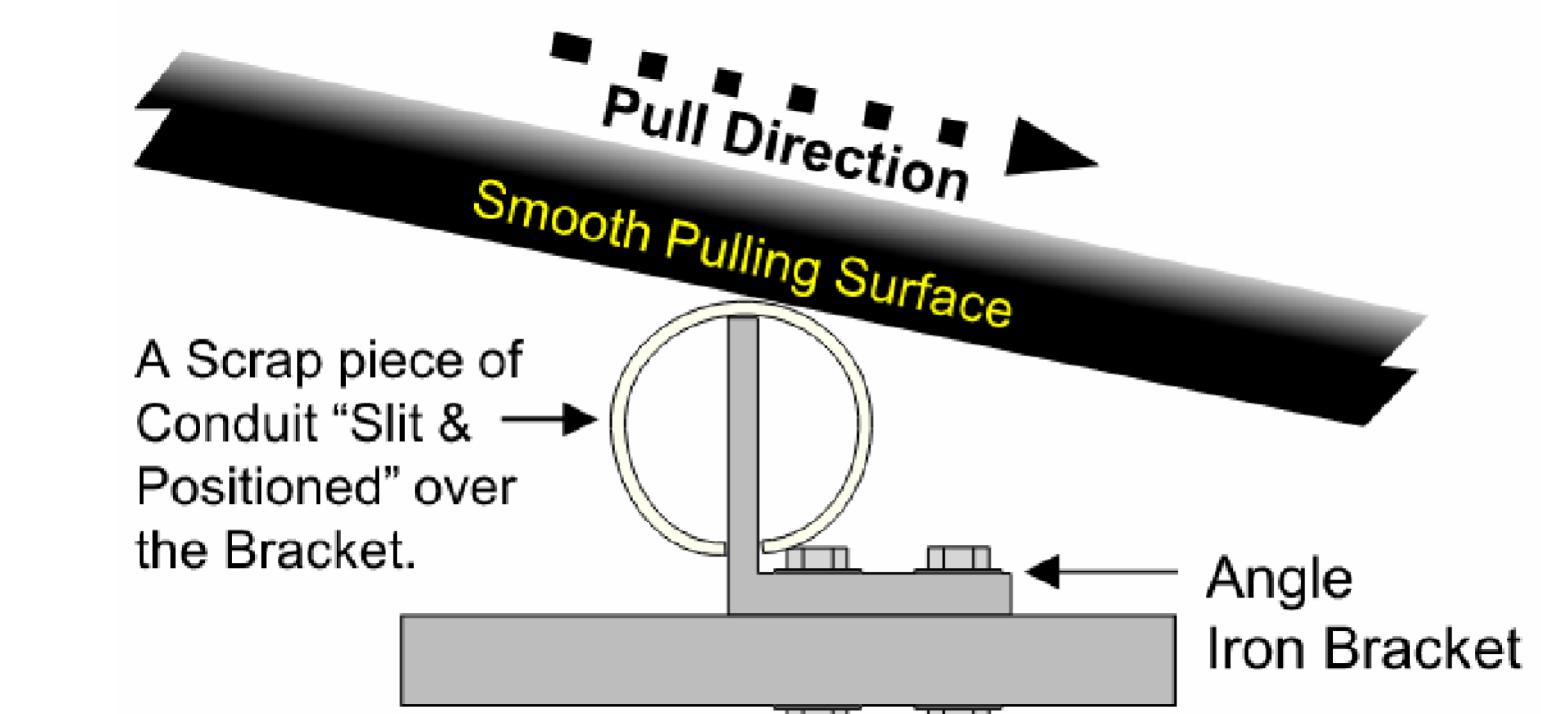
TUBE CABLE EXPANSION / CONTRACTION MOVEMENTS HANDLED WITHIN TDU'S



INCORRECT TUBE ORIENTATION AT SPLICE POINT
TUBES WILL BE CROSSED OR TWISTED WHEN COUPLED



MATCHING PRINT STRING ARROWS AT TUBE CABLE SPLICE POINTS FOR CORRECT TUBE ORIENTATION



PROTECTING TUBE CABLE DURING INSTALLATION



BURNS ENGINEERING F-4827
09/12/2025

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SHA AUTHENTICATION CODE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

No. Date Revision
Project Title: JOHN PETER SMITH (JPS) CAMPUS OPTICAL FIBER LOOP
Drawing Title:

TECHNOLOGY DETAILS (FIGURES)

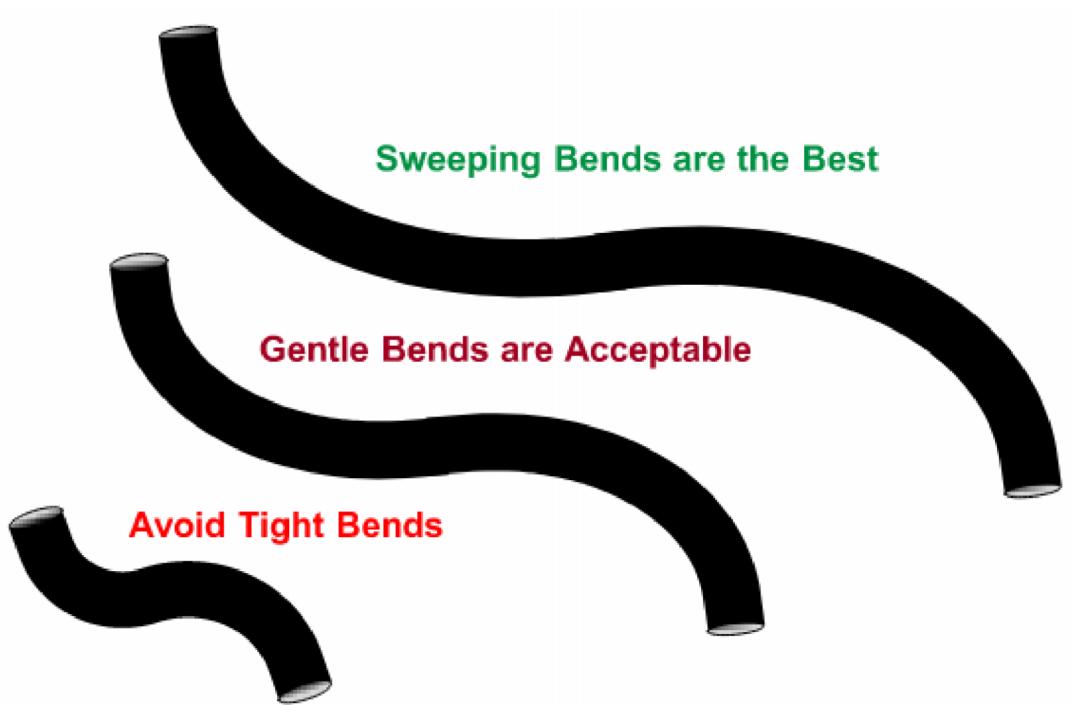
Date: 09/12/2025
Scale: 1"=100'
Draw: GF
Checked: MH/PG
Job No: 2024-0287
Drawing No:

TC507



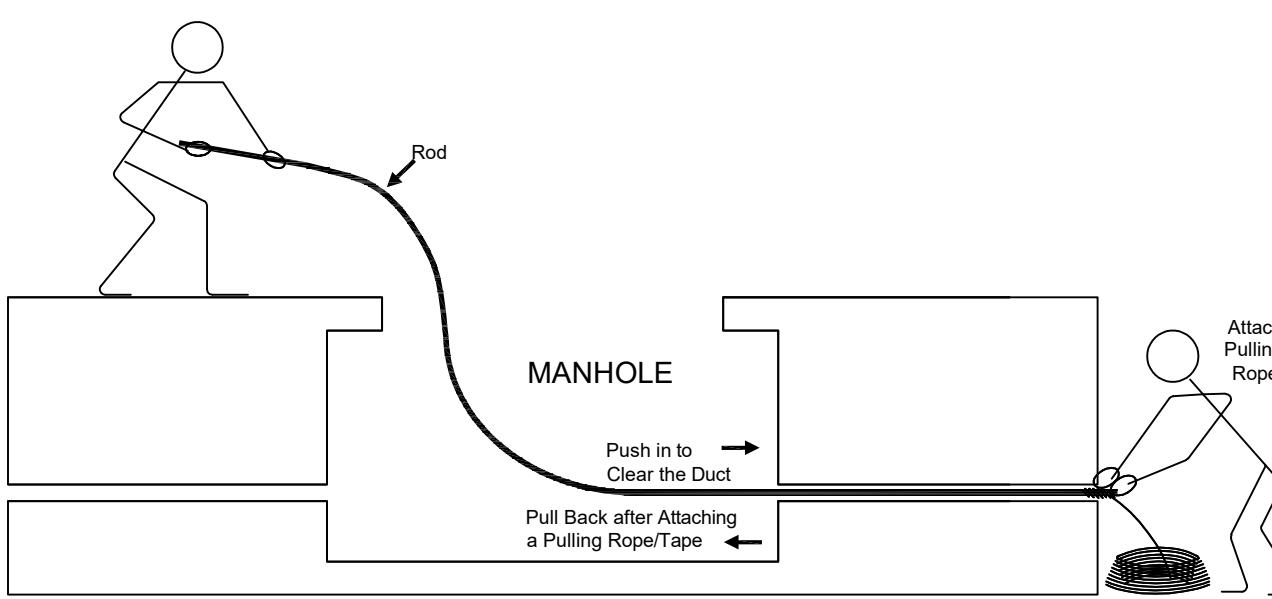
GENERAL NOTES

A. NOT ALL INFORMATION IS APPLIED TO DETAIL FIGURES. REFER TO SUMITOMO RECOMMENDED PROCEDURE (SRP SP-F04-008) FOR ADDITIONAL INFORMATION.



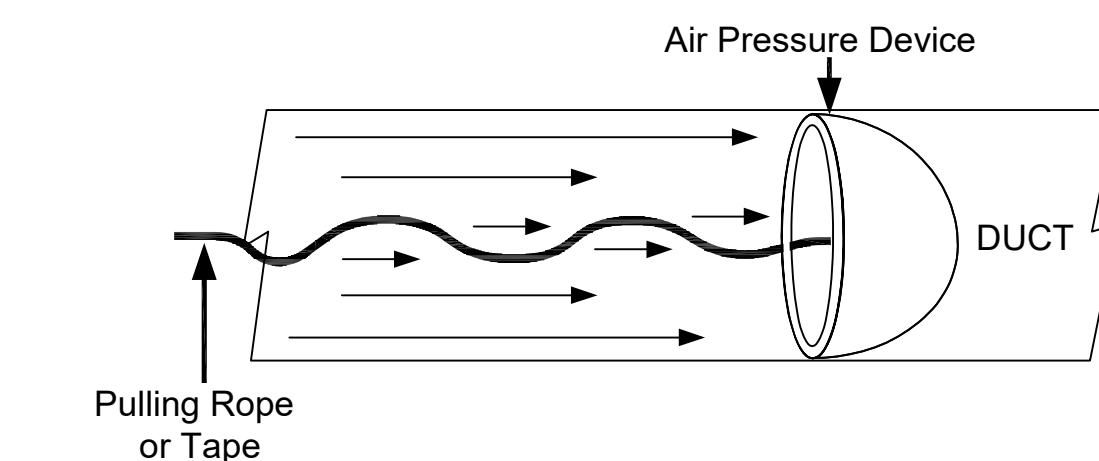
TIGHT CURVING

(B 1) TC508



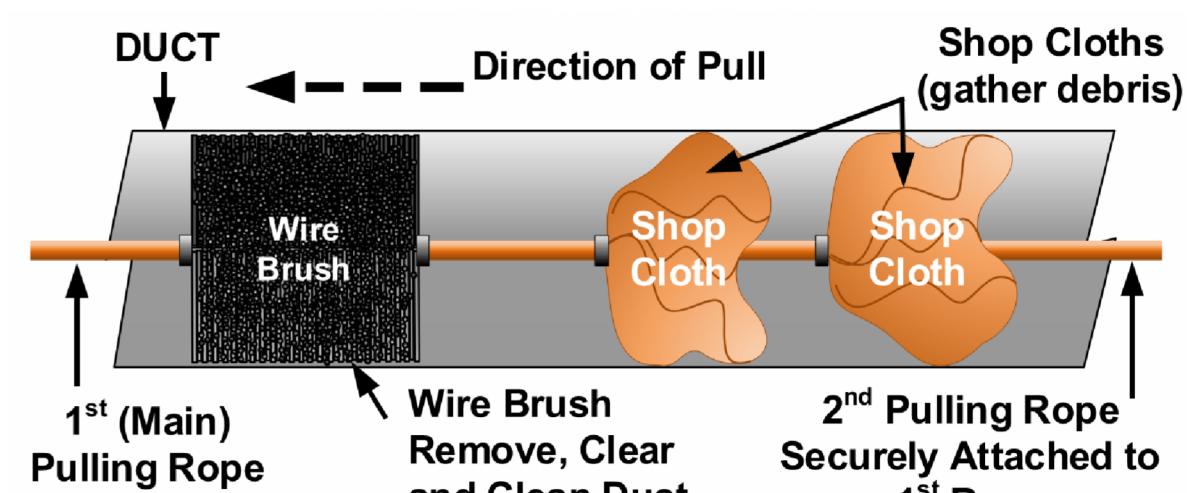
RODDING W/ STEEL OR PLASTIC ROD

(B 2) TC508



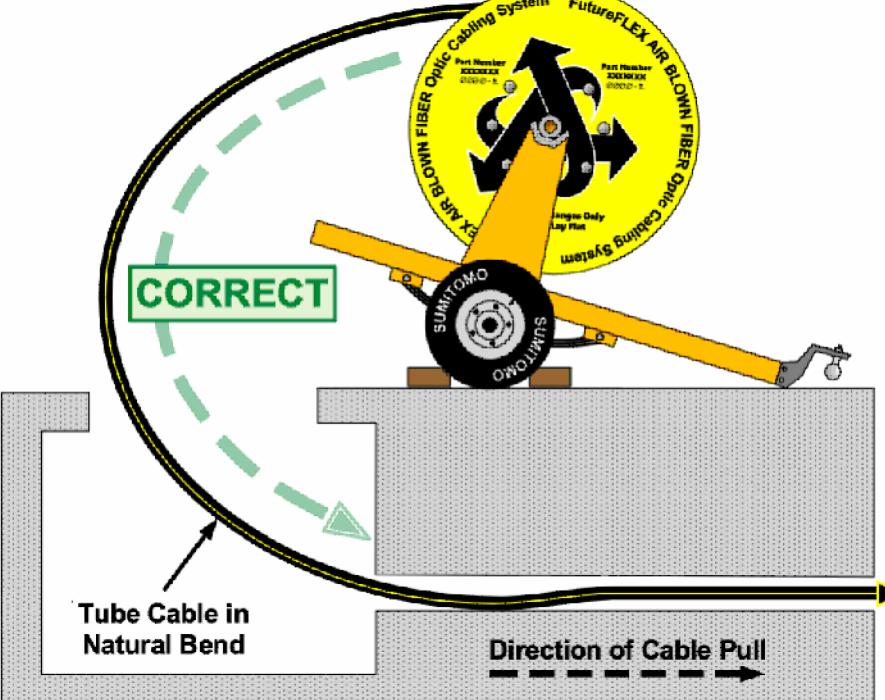
AIR-BLOWING METHOD OF INSTALLING PULLING ROPE OR TAPE

(B 3) TC508



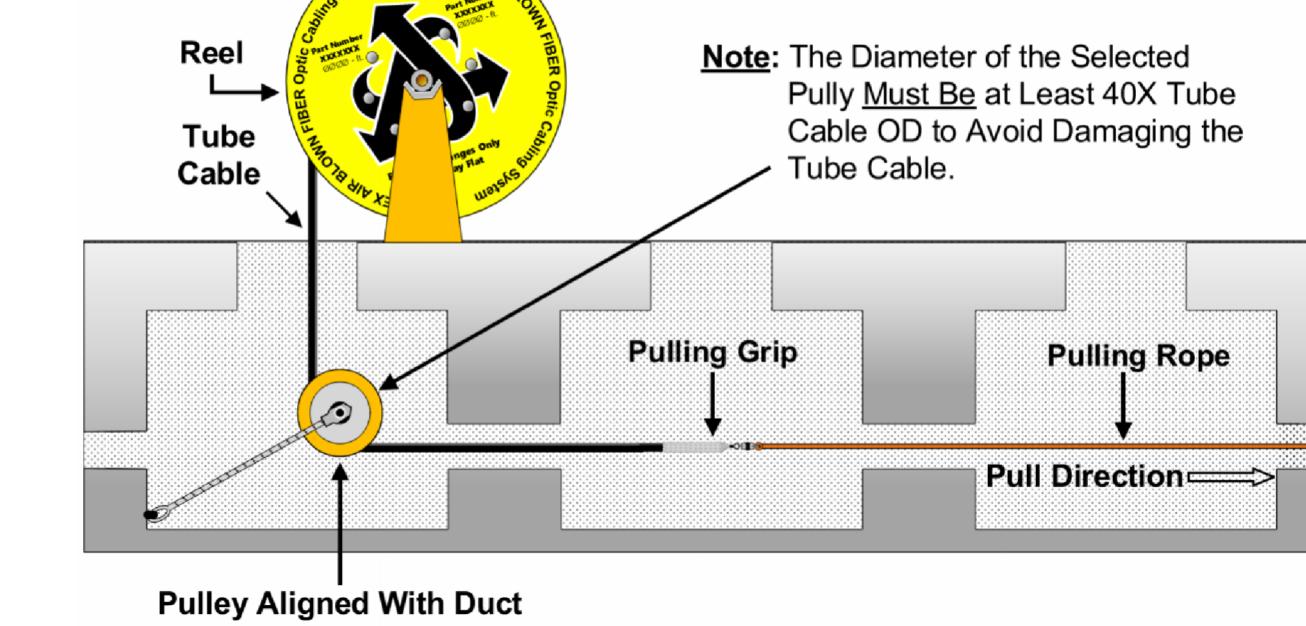
CLEANING DUCT INTERIOR WITH WIRE BRUSH AND RAGS

(B 4) TC508



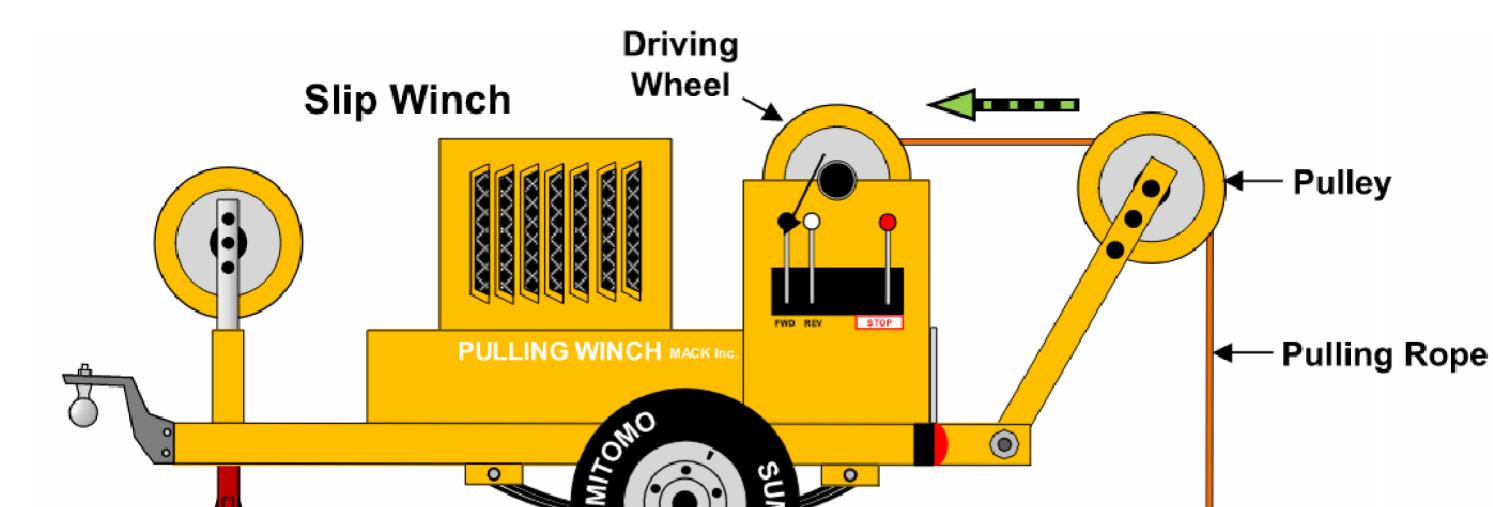
TUBE CABLE REEL PLACEMENT

(B 5) TC508

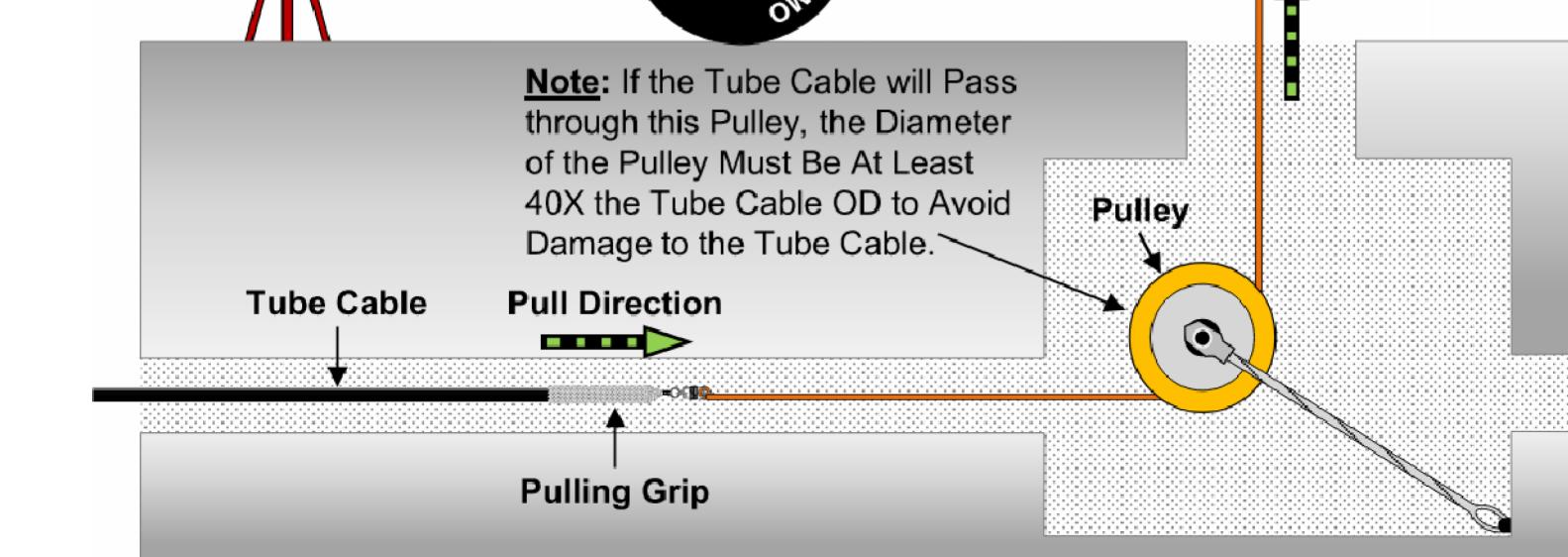


MANUAL PULLING METHOD

(B 6) TC508

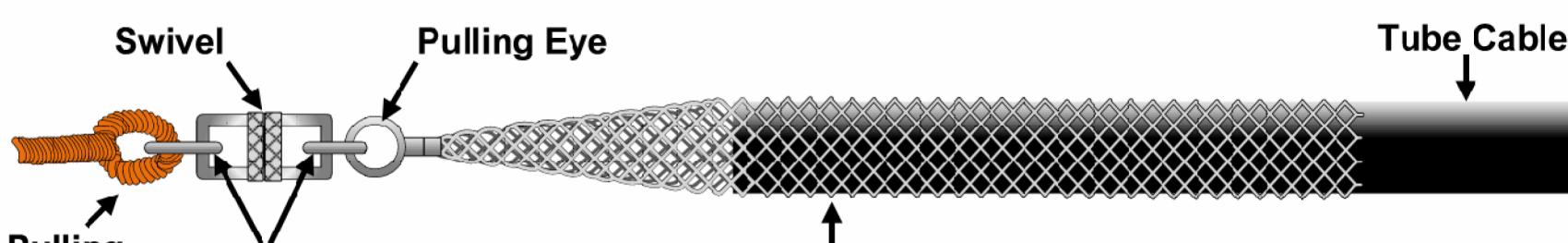


Note: The Diameter of the Selected Pulley Must Be at Least 40X Tube Cable OD to Avoid Damaging the Tube Cable.

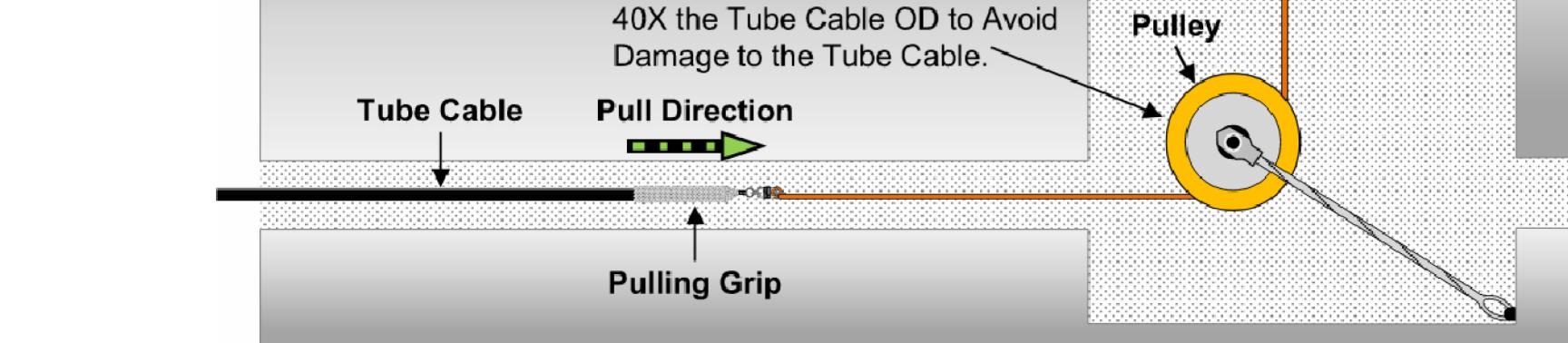


SLIP WINCH PULLING METHOD

(B 9) TC508

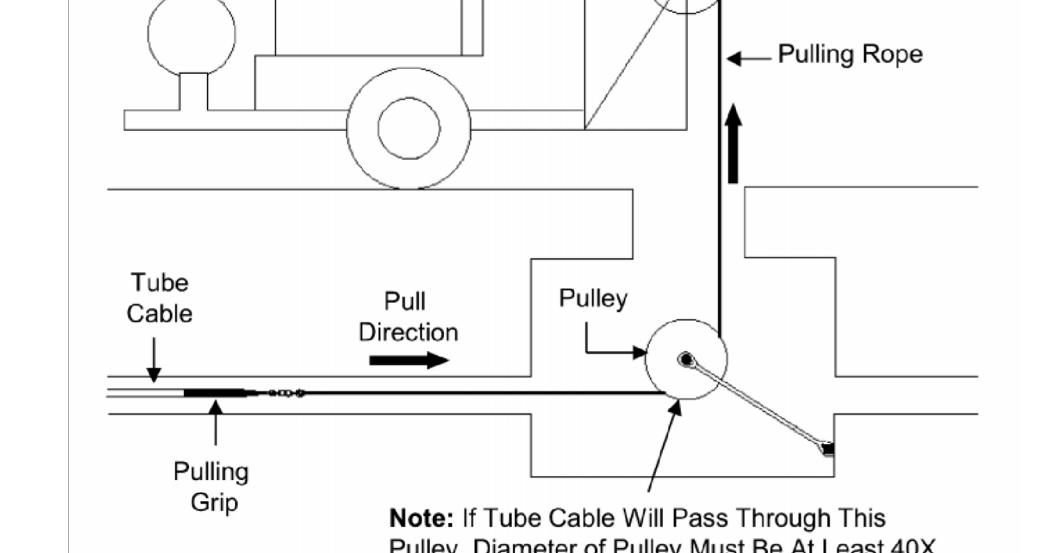
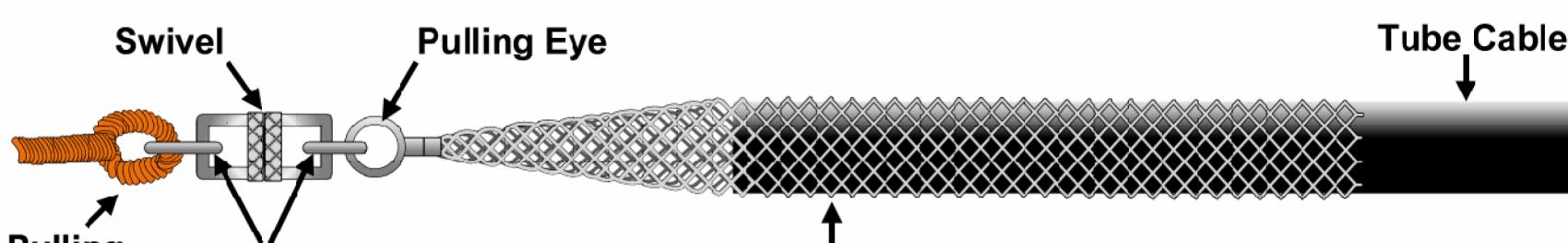


Note: If the Tube Cable will Pass through this Pulley, the Diameter of the Pulley Must Be at Least 40X the Tube Cable OD to Avoid Damage to the Tube Cable.



STANDARD PULLING GRIP ATTACHMENT METHOD

(B 10) TC508



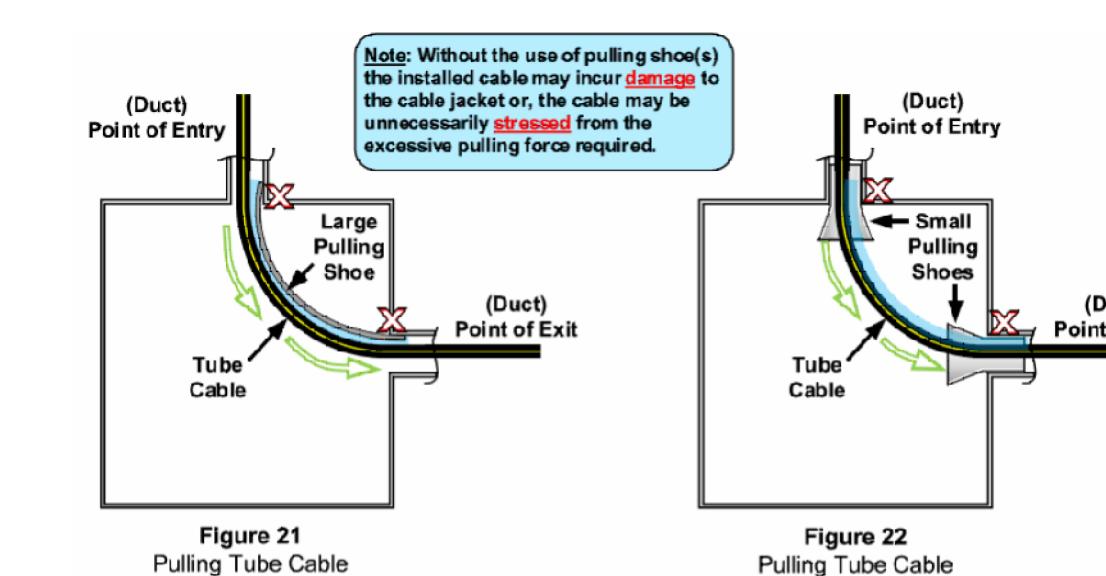
SLIP WINCH PULLING METHOD

(B 7) TC508



PULLING TUBE CABLE

(B 8) TC508



PULLING TUBE CABLE

(B 8) TC508



WILLIAM H. MASTERS
REGISTERED ENGINEER
93374

BURNS ENGINEERING F-4827
09/12/2025

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

No. Date Revision

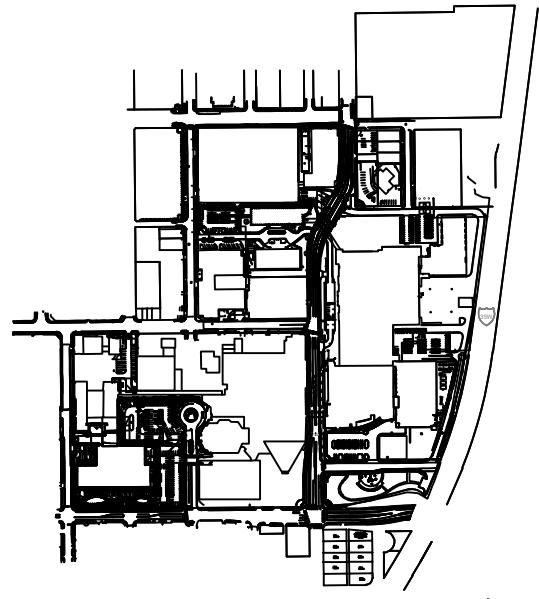
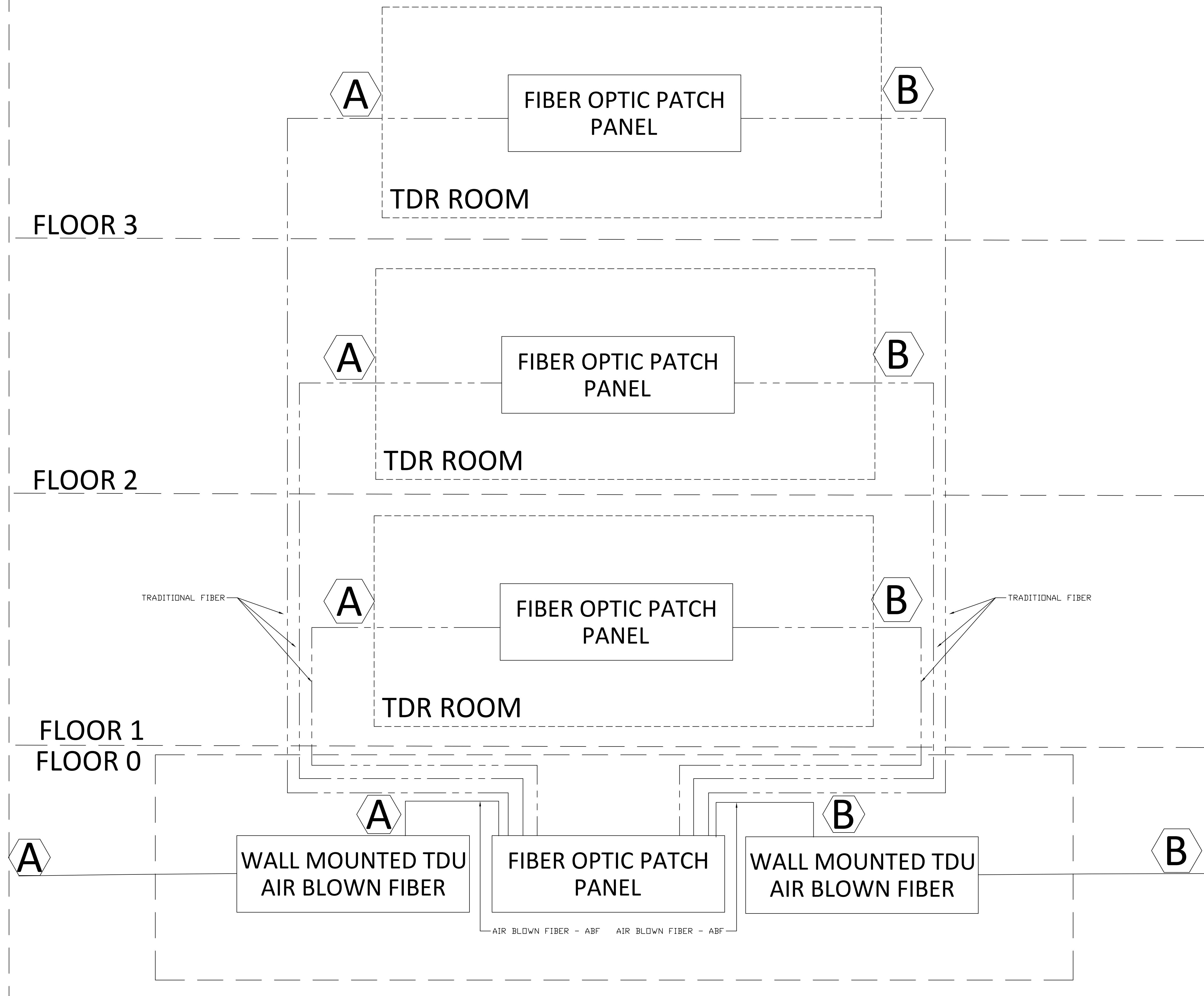
Project Title:
JOHN PETER SMITH
(JPS) CAMPUS
OPTICAL FIBER LOOP

Drawing Title:

TECHNOLOGY
DETAILS (FIGURES)

Date: 09/12/2025
Scale: 1"=100'
Drawn: GF
Checked: MH/PG
Job No: 2024-0287
Drawing No:

TC508



BURNS ENGINEERING F-4827
09/12/2025

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SHA AUTHENTICATION CODE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

No. Date Revision

Project Title:

JOHN PETER SMITH
(JPS) CAMPUS
OPTICAL FIBER LOOP

Drawing Title:

TECHNOLOGY
SINGLE LINE DIAGRAMS

Date: 09/12/2025

Scale: 1"=100'

Drawn: GF

Checked: MH/PG

Job No: 2024-0287

Drawing No:

TC601

Bld Name	TSER/ TEC Name	TDR Name	Floor Level	A-Side	To	B-Side	To	Fiber Strands	Fiber Strands	Tube Cables to TSER		Fiber Cable		
										Strands	Vault/ HH Name	Strands	Vault/ HH Name	A-Side
PEC/ TSP (E)	RM 1-307			Level 1	48	HH17	48	HH19	192	192	7*	7*	(2) 72-strand; (1) 48-stand	(2) 72-strand; (1) 48-stand
	PEC	RM 1-208			24		24							
		RM 2-153		Level 2	24		24							
		RM 2-244			24		24							
	TSP						24							
		IDF#1	Level 1		24		24							
		IDF#2	Level 2		24		24							
		IDF#3	Level B		24		24							
TOTALS PEC/TSP	1	6		192		192			192	192	7	7		

Hospital	TSER/TEC	IDF#1	LL	24	INSIDE FROM CUP	24	HH11	24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#2		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#3		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#4		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#5	L1	24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#6		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#7		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#8		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#9		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#10	L2	24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#11		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#12		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#13		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#14		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#15	L3	24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#16		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		TSER/TEC		48		48		48	48	(19 + 12)*	(19 + 12)*	(1) 48-strand	(1) 48-strand
	Penthouse	IDF#17	L4	24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#18		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#19	L5	24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#20		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#21	L6	24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#22		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#23	L7	24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#24		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#25	L8	24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#26		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#27	L9	24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#28		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#29	L10	24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#30		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#31	L11	24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#32		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
	Penthouse	IDF#33	L12	24				240	240	2	2	(1) 24-strand	(1) 24-strand
TOTALS Hospital Add		1		33				840	840	66	66		

MOB/ASC	TSER/TEC		1	48	HH06	48	HH05	48	48	19*	19*	(1) 48-strand	(1) 48-strand
	IDF#1	1	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#2	2	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#3	3	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#4	3	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#5	4	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#6	4	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#7	5	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#8	5	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#9	6	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#10	6	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#11	7	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#12	7	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#13	8	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#14	8	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#15	9	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#16	9	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#17	10	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	IDF#18	10	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand			
	Penthouse	IDF#19	11	24	24	24	24	2	2	(1) 24-strand	(1) 24-strand		
TOTALS MOB/ASC	1	19		504	504	504	504	504	38	38			

Pavillion (E)		RM P1A	Level 1	24	INSIDE FROM CUP VIA HOSPITAL	HH23	24	24	2	2	(1) 24-strand	(1) 24-strand
		RM P1B		24			24	24	2	2	(1) 24-strand	(1) 24-strand
		RM P1C		24			24	24	2	2	(1) 24-strand	(1) 24-strand
		RM P2A	Level 2	24			24	24	2	2	(1) 24-strand	(1) 24-strand
		RM P2B		24			24	24	2	2	(1) 24-strand	(1) 24-strand
		RM P2C		24			24	24	2	2	(1) 24-strand	(1) 24-strand
		RM P3A	Level 3	24			24	24	2	2	(1) 24-strand	(1) 24-strand
		RM P4A		24			24	24	2	2	(1) 24-strand	(1) 24-strand
		RM P5A	Level 5	24			24	24	2	2	(1) 24-strand	(1) 24-strand
TOTALS Pavilion	0	9		216			216	216	18	18		

Bld Name	TSER/ TEC Name	TDRName	FloorLevel	A-Side	To	B-Side	To	Fiber Strands	Fiber Strands	Tube Cables to		Fiber Cable			
										TSER		A-Side		B-Side	
				Strands	Vault/ HH Name	Strands	Vault/ HH Name	A-Side	B-Side	A-Side	B-Side	A-Side	B-Side	A-Side	B-Side

	Data Center		Lower Level	48		48		504	504	19*	19*	(7) 72-strand	(7) 72-strand
				24		24		24	24	24	24		
Main Hosp (E)	RM 00-0565		Level B	24		24		24	24	24	24		
	RM A01			24		24		24	24	24	24		
	Mail Room			24		24		24	24	24	24		
	RM J			24		24		24	24	24	24		
	RM L			24		24		24	24	24	24		
	Radiology		Level 1	24		24		24	24	24	24		
	AHUS			24		24		24	24	24	24		
	Pharmacy			24		24		24	24	24	24		
	PD			24		24		24	24	24	24		
	Garage			24		24		24	24	24	24		
	OPC 2		Level 2	24		24		24	24	24	24		
	EMS 2			24		24		24	24	24	24		
	L & D			24		24		24	24	24	24		
	OBIX			24		24		24	24	24	24		
	RM B			24		24		24	24	24	24		
	New Entry	Level 3		24		24		24	24	24	24		
	OPC 4		Level 4	24		24		24	24	24	24		
	PBX			24		24		24	24	24	24		
	Old Tower		Level 6	24		24		24	24	24	24		
	Tower 6			24		24		24	24	24	24		
	Tower 7	Level 7		24		24		24	24	24	24		
	Tower 11	Level 11		24		24		24	24	24	24		
TOTALS Main Hosp	1	22		504		504		504	504	19*	19*		

MOB Garage (E)	RM 130A		Level 1	48	Via Skybridge to Garage MDF	48	HH (E) to AT&T	120	120	7*	7*	(1) 72-strand; (1) 48-strand	(1) 72-strand; (1) 48-strand
		RM 110		24		24							
		RM 510	Level 5	24		24							
		RM 520		24		24							
TOTALS MOB Garage	1	3		120		120		120	120	7	7		

BHCUP(E)		IDF#1		24	HH 15	24	HH 16	24	24	2*	2*	(1) 24-strand	(1) 24-strand
TOTALS	1	1		24	24		24	24	2	2			

JPOC 1350 (E)	MDF		Level 3	48	Sky Bridge	48	HH 08	144	192	7*	7*	(2) 72-strand	(2) 72-strand
		IDF#1	Level 1	24		24							
		IDF#2	Level 2	24		24							
		IDF#3	Level 3	24		24							
		IDF#4	Level 4	24		24							
TOTALS JPOC 1350	1	4		144		192		144	192	7	7		

JPOC 1400 (E)	MDF		Level 2	48	HH12	48	HH08	168	168	7*	7*	(2) 72-strand; (1) 24-strand	(2) 72-strand; (1) 24-strand
		IDF#1	Level 1	24		24							
		IDF#2	Level 2	24		24							
		IDF#3	Level 3	24		24							
		IDF#4	Level 4	24		24							
		IDF#5	Level 5	24		24							

TOTALS JPOC 1400 1 5 168 168 168 168 7 7

Medical Examiner (E)		N/A	N/A	0	N/A	0	N/A	0	0	0	0	N/A	N/A
TOTALS ME				0		0		N/A					

Main Garage (E)	MDF	IDF#1	Level 1	24	HH 19	24	HH20	24	24	2*	2*	(1) 24-strand	(1) 24-strand
TOTALS Garage	1	1		24		24		24	24	2	2		

Pavilion Garage (E)		N/A	N/A	0	N/A	0	N/A	0	0	0	0	N/A	N/A
Future Building	MDF			0	HH24	0	HH25	0	0	0	0	N/A	N/A

TOTALS Future	1	0	0	0			N/A					
---------------	---	---	---	---	--	--	-----	--	--	--	--	--

TOTALS Purchasing	1	1	24	24	24	24	2	2					
CUP	TSER/TEC		Level 3	N/A		N/A		N/A	N/A	0	0	Internal to Room	Internal to Room
		IDF#1	Level 1	24	WTHIN CUP	24	WTHIN CUP	24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#2		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#3	Level 2	24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#4		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#5	Level 3	24		24		24	24	2	2	(1) 24-strand	(1) 24-strand
		IDF#6		24		24		24	24	2	2	(1) 24-strand	(1) 24-strand

* = FROM CUP TSER/TEC | FVEI 3

* = FROM CLIP TSER/TEC | LEVEL 3



FIBER LOOP SCHEDULE

TC604