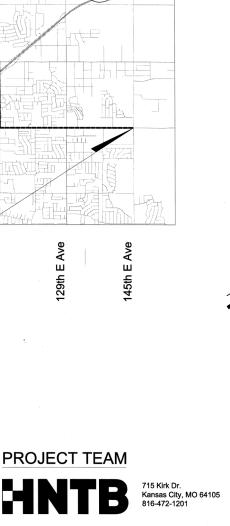
36th St N -11 Apache St Pine St 11th St S 21th St S 31th St S å41th St S

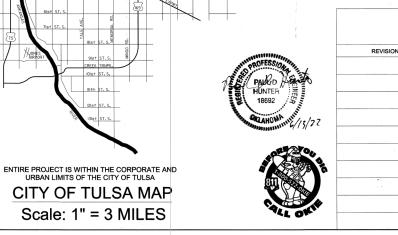
CITY OF TULSA - TULSA, OKLAHOMA **ROUTE 66 AERO BUS RAPID TRANSIT STATIONS** LINK TULSA - FIBER OPTIC INSTALLATION

City of Tulsa Project No: 2035X001Z, Phase 1 Build Grant/LINK Fiber Optic System Improvements

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COVER SHEET BY DATE APPROVED:

OWNER

PROJECT LIMITS

FIBER OPTIC SYSTEM



Tulsa, OK 74120 918-835-9588

PROJECT LOCATION MAP

81th St S

51th St 8 💆

61th St S

71th St S

175 E. 2nd St.

- 2 THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTION ON AS HIS OWN RESPONSIBILITY OR AS THE ENGINEER MAY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
- 3 PAY ITEMS SHALL BE AS SPECIFIED ON THE CITY OF TULSA OR ON THE ODOT STANDARD DRAWINGS EXCEPT AS MODIFIED BY THE CONTRACT.
- 4 THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- 5 THE LOCATIONS OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS. THE FOLLOWING IS A LIST OF UTILITY OWNERS; AT&T, PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP), OKLAHOMA NATURAL GAS (ONG), COX COMMUNICATIONS, MCI/VERIZON, EASYTEL COMMUNICATIONS, WELLSCO VALLOR TELECOM, CITY OF TULSA-WATER AND SEWER, CITY OF TULSA-TRAFFIC OPERATIONS. SEE TITLE SHEET FOR CONTACT INFORMATION.
- 6 THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK. PHONE 1-800-522-6543.
- 7 THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY SIDEWALK EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY AFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.
- THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
- 9 THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF TULSA TO ESTABLISH, INSTALL, MAINTAIN, AND OPERATE COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGMEN, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE FIELD ENGINEERING REPRESENTATIVE.
- 10 CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT ADDITION, AND APPLICABLE ODOT STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORK.
- 11 THE CONTRACTOR SHALL NOTIFY THE CITY OF TULSA FIELD ENGINEERING, 918-596-9404, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK OR PRIOR TO REMOVING TRAFFIC SIGNS.
- 12 LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.
- 13 ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.

GENERAL CONSTRUCTION NOTES

- 14 ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
- 15 ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY MATERIAL IS STORED ON THE PROJECT SITE AND/OR DISPOSED OF WITHIN THE CITY LIMITS.
- 16 WHERE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK. VEHICLES SHALL NOT BE LOADED BEYOND THE CAPACITY RECOMMENDED BY THE VEHICLE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE OR LOCAL LAW OR REGULATION.
- 17 ANY DAMAGE TO THE ROADWAY PAVEMENT, CURB, DRIVEWAYS OR SIDEWALK CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE ENGINEER'S SATISFACTION AND SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S SOLE EXPENSE. ALL DISTURBED ITEMS SHALL BE REPAIRED TO MATCH EXISTING MATERIALS.
- 18 IF THE CONTRACTOR ENCOUNTERS VOIDS WHEN PATCHING SIDEWALKS, THE CONTRACTOR SHALL CALL FIELD ENGINEERING AT 918-596-7814 FOR AN INSPECTION BEFORE PROCEEDING WITH WORK.
- 19 PHYSICAL TESTING FOR QUALITY ASSURANCE SHALL BE FURNISHED BY THE CITY.
- 20 CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET.
- 21 REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.
- 22 THE CONTRACTOR SHALL REPLACE ANY SECTION CORNERS OR OTHER PERMANENT RIGHT OF WAY MARKERS REMOVED OR DISTURBED AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT. REPLACEMENT OF SECTION CORNERS OR ANY OTHER MONUMENTS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR AUTHORIZED TO PERFORM WORK IN THE STATE OF OKLAHOMA.
- 23 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND MAINTENANCE OF THE STORMWATER DRAINAGE. STORMWATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED.
- 24 STRAW OR HAY BALES AS STORMWATER BEST MANAGEMENT PRACTICES ARE NO LONGER ALLOWED ON CONSTRUCTION PROJECTS.
- 25 THE CONTRACTOR MUST CALL 1-800-458-4251 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED, OR OTHERWISE DISTURBED.
- 26 ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS. CURB RAMPS, AND CROSSWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES, AND THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY, PUBLISHED ON JULY 26, 2011 BY THE U.S. ACCESS BOARD. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK, WHICH IS NOT IN FULL COMPLIANCE WITH THE ADA WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK, WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S

GENERAL CONSTRUCTION NOTES

- 27 THE CONTRACTOR SHALL NOTIFY THE METROPOLITAN TULSA TRANSIT AUTHORITY (MTTA), ERIC SMITH 918-830-0024, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK, LANE CLOSURES OR PRIOR TO DETOURING TRAFFIC.
- 28 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING NEIGHBORHOOD, TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS PART OF THIS PROJECT.
- 29 CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN THE FLOODPLAIN.
- 30 TRACER WIRE IS ONLY INSTALLED IN CONDUIT WITH FIBER OPTIC CABLE.
- 31 PULL STRINGS ARE REQUIRED IN ALL NEW EMPTY CONDUIT.
- 32 IN GENERAL, ALL PASS THROUGH PULL BOXES THE CONTRACTOR SHALL LEAVE MINIMUM 50' COIL OF FIBER OPTIC CABLE. AT ALL SPLICE VAULTS EACH FIBER OPTIC TAIL SHALL BE A MINIMUM OF 100'. PASS THROUGH PULLBOXES ARE LABELED FROM 100-EX 387 WHILE SPLICE VAULTS ARE LABELED FROM 501-570. REFER TO THE PULLBOX SLACK TABLE FOR MORE INFORMATION.
- 33 THE CONTRACTOR SHALL COORDINATE WITH GARY CUMMINS OF THE CITY OF TULSA FOR ACCESS TO FIRE STATION 5, FIRE STATION 29, MINGO VALLEY POLICE, OTC, AND THE 911 CENTER. GARY CAN BE REACHED BY EMAIL AT GCUMMINS@CITYOFTULSA.ORG.
- 34 THE CONTRACTOR SHALL COORDINATE WITH MICHAEL MCCLISTER OF MTTA FOR ACCESS TO BUILDING AND CABINETS REQUIRED TO COMPLETE SPLICE WORK.
- 35 AERIAL PHOTOGRAPHY SHOWN ON PLANS IS FOR REFERENCE ONLY AND MAY NOT MATCH EXISTING CONDITIONS.
- 36 ALL EXISTING ITS DEVICES AND COT FIBER SHALL BE KEPT IN OPERATION AT ALL TIMES. CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING POWER AND COMMUNICATION CABLES AND DEVICES DURING CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 37 THE PLAN LOCATIONS OF UNDERGROUND AND AERIAL UTILITIES, WHEN SHOWN, ARE APPROXIMATE ONLY. IN ADDITION, A PORTION OF UTILITY INFORMATION MAY NOT HAVE BEEN PROVIDED. ALL UTILITIES SHALL BE LOCATED AND MARKED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING UTILITIES AND LOCATOR SERVICES AND SCHEDULING THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL ALSO CONTACT ANY AND ALL UTILITIES AND LOCAL GOVERNMENT AGENCIES NOT PARTICIPATING IN LOCATION
- 38 PROPOSED ITS EQUIPMENT LOCATIONS ARE APPROXIMATE AND MAY REQUIRE MODIFICATION TO AVOID CONFLICTS WITH UNDERGROUND AND AERIAL UTILITIES OR OTHER OBSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ANY CONFLICTS WITH EXISTING UTILITIES AT SITES IN THE FIELD PRIOR TO INITIATION OF CONSTRUCTION AT THAT SITE. AS THE FUTURE CCTV LOCATION IS LOCATION SENSITIVE, THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO REVISING THE STAKED LOCATIONS OF ANY CONDUIT, CAMERA FOUNDATIONS, CABINET FOOTINGS, TYPE IV HANDHOLES, OR POWER LOCATIONS.
- 39 THE CONTRACTOR SHALL BORE ALL CROSSINGS BENEATH ROADWAYS, STREETS, OTHER PAVED SURFACES, RAILROAD, OR OTHER STRUCTURE. DEPTH OF ALL BORES SHALL BE A MINIMUM OF 36 INCHES UNLESS OTHERWISE SPECIFIED IN PLANS.

GENERAL NOTES CITY OF TULSA PROJECT NUMBER: 2035X001Z PHASE 1 BUILD GRANT / LINK FIBER OPTIC SYSTEM IMPROVEMENTS Iulsa HNTB 715 Kirk Dr. Kansas City, MO 64105 816-472-1201 DRAWN DESIGNED NW SURVEY RA 6/22 PROFILE SCALE: PROJ. MGR.

SHEET 2 OF 99 SHEETS

BY DATE FIELD MGR. RECOMMENDE VERTICAL ATLAS PAGE NO:

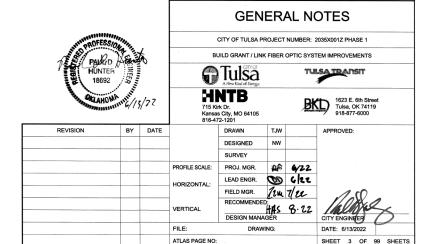
- 41 THE MINIMUM BENDING RADIUS OF HDPE CONDUIT SHALL BE THE CONDUIT MANUFACTURER'S RECOMMENDATIONS FOR MINIMUM BENDING RADIUS.
- 42 THE CONTRACTOR SHALL TRENCH ALL CONDUIT WHERE EXISTING CONDITIONS ALLOW UNLESS OTHERWISE SPECIFIED ON THE PLANS. THE CONTRACTOR MAY BORE IN LIEU OF TRENCHING AT THE CONTRACTOR'S EXPENSE.
- 43 BORE LENGTHS AS SHOWN ON DESIGN PLANS ARE TO BE CONSIDERED MINIMUM FOR CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ANY AND ALL IMPROVEMENTS SUCH AS ASPHALT OR CONCRETE PAVEMENTS, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, CULVERTS, DRAIN TILES, EMBANKMENTS, SHRUBS, TREES, GRASS, SOD, ETC., IF DAMAGED, SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS (OR BETTER) AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE COT.
- 45 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY EXISTING CONDUIT, CONDUCTORS, OR OTHER FACILITIES DAMAGED DURING CONSTRUCTION. ALL EXISTING INFRASTRUCTURE REMOVED OR DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND BY THE CONTRACTOR, WITH NO ADDITIONAL COMPENSATION.
- THE CONTRACTOR SHALL NOT DISTURB DESIRABLE GRASS AREAS AND DESIRABLE TREES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR WILL NOT BE PERMITTED TO PARK OR SERVICE VEHICLES AND EQUIPMENT OR USE THESE AREAS FOR STORAGE OF MATERIALS. STORAGE, PARKING AND SERVICE AREA(S) WILL BE SUBJECT TO THE APPROVAL OF THE RESIDENT CONSTRUCTION ENGINEER.
- THE TOP SIX (6) INCHES OF THE DISTURBED AREAS SHALL BE FREE OF ROCK AND DEBRIS AND SHALL BE FOR THE ESTABLISHMENT OF VEGETATION, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- THE CONTRACTOR IS EXPECTED TO HAVE MATERIALS, EQUIPMENT, AND LABOR AVAILABLE ON A DAILY BASIS TO INSTALL AND MAINTAIN EROSION CONTROL FEATURES ON THE PROJECT. THIS MAY INVOLVE SEEDING, SILT FENCE, ROCK DITCH CHECKS, SILT BASINS, OR SILT DIKES.
- 49 NO OPEN HOLES OR MOUNDS OF DIRT SHALL BE LEFT UNPROTECTED DURING NON-WORKING HOURS.
- CONTRACTOR SHALL PLACE TAGS ON ALL FIBER OPTIC CABLE IDENTIFYING THE OWNER AND DIRECTION OF THE CABLE AT EACH TERMINATION POINT AND IN EVERY HANDHOLE AND SPLICE VAULT. TAGS SHALL CLEARLY IDENTIFY WHERE EACH INDIVIDUAL CABLE RUN ORIGINATED AND WHERE IT ENDS (PULLBOX TO PULLBOX, PULLBOX TO CABINET, PULLBOX TO BUILDING, ETC.) FOR FIBER INSTALLATIONS WITH JOINT CITY/OTHER AGENCY (OR ENTITY) USE WHERE THE FIBER WILL BE OWNED BY THE OTHER AGENCY (OR ENTITY), INSTALL TYPICAL IDENTIFIERS AND/OR MARKINGS FOR THAT FIBER.
- ANY EXISTING PULL TAPE THAT IS USED AS A PULL ROPE FOR FIBER OPTIC CABLE INSTALLATION SHALL BE REPLACED IN KIND. THE COST OF ANY PULL TAPE REPLACEMENT SHALL BE SUBSIDIARY TO THE FIBER OPTIC CABLE INSTALLATION.
- 52 IN THE EVENT IT IS SUSPECTED THAT CABLE DAMAGE HAS OCCURRED PRIOR TO FINAL ACCEPTANCE, CONTRACTOR SHALL PERFORM OTDR TESTING OF ALL FIBER STRANDS WITHIN SEVENTY TWO (72) HOURS AFTER NOTIFICATION AND SUBMIT A COPY OF THE OTDR TEST TO THE ENGINEER UPON COMPLETION.
- CONTRACTOR SHALL REPLACE OR REPAIR, AS DIRECTED BY THE ENGINEER, ANY DAMAGE OCCURRING BEFORE FINAL ACCEPTANCE AT NO ADDITIONAL COST TO THE COT. THE CONTRACTOR WILL NOT BE GRANTED AN EXTENSION OF TIME FOR DELAYS CAUSED BY REPLACING OR REPAIRING THE INSTALLED CABLE.

GENERAL CONSTRUCTION NOTES

- CONTRACTOR SHALL REPAIR OR REPLACE ANY DEFECT IN THE INSTALLED CABLE AT NO ADDITIONAL COST TO THE COT. CONSIDER A DEFECT TO BE ANY CONDITION RESULTING IN A NEGATIVE OR ADVERSE EFFECT ON CURRENT OR FUTURE OPERATIONS OF THE COMPLETED FIBER OPTIC COMMUNICATION SYSTEM AS DETERMINED BY THE ENGINEER.
- ANY EXISTING WIRING THAT IS DAMAGED DURING FIBER OPTIC CABLE INSTALLATION SHALL BE REPLACED OR REPAIRED, AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE COT.
- CONTRACTOR SHALL COORDINATE WITH THE SIGNAL EQUIPMENT CONTRACTOR (PROJECT NUMBER 2035X001Z PHASE 2) ON INSTALLATION OF CONDUIT AND FIBER OPTIC CABLE INTO THE NEW SIGNAL CABINETS.
- QUANTITY TABLES PROVIDED ON THE PLAN SHEETS SHOW THE APPROXIMATE FIBER DISTANCE FOR THAT SEGMENT AND DO NOT INCLUDE ANY SLACK. A DETAILED BREAKDOWN OF INFORMATION ABOUT THE SLACK REQUIRED FOR THE PULL BOXES IS PROVIDED IN THE PULL BOX SLACK TABLE.
- THE PROJECT SHALL BE COMPLETED IN SEQUENTIAL PHASES. SUBSTANTIAL COMPLETION OF THE PREVIOUS PHASE MUST BE AGREED UPON WITH THE ENGINEER BEFORE THE CONTRACTOR CAN MOVE ONTO THE NEXT PHASE. REFER TO THE CONSTRUCTION PHASING SHEET FOR MORE INFORMATION.
- 59 BEFORE SPLICING ANY FIBER, VERIFY ALL FINAL SPLICE DETAILS WITH GARY CUMMINS WITH CITY OF TULSA. GARY CAN BE REACHED BY EMAIL AT GCUMMINS@CITYOFTULSA.ORG.
- 60 CONTRACTOR TO COORDINATE WITH GARY CUMMINS OF THE CITY OF TULSA (GCUMMINS@CITYOFTULSA.ORG) FOR EXISTING PULLBOX TIE IN LOCATIONS ALONG RIVERSIDE DR. THE PULLBOX LOCATIONS SHOWN ON THE PLAN SHEETS ARE APPROXIMATE ONLY AND WILL NEED TO BE FIELD VERIFIED.

SITE LAYOUT NOTES

- 1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL CLEAN PUBLIC ROADWAYS OF ALL CONSTRUCTION DEBRIS AS A RESULT OF CONSTRUCTION ACTIVITIES AT THE END OF EACH DAY.
- 3 ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING SERVICES DEPARTMENT OF THE CITY OF TULSA, OKLAHOMA.
- 4 UNLESS OTHERWISE NOTED, CONCRETE MATERIALS SHALL BE 4,000 PSI WITH AIR ADDED TO THE MIX AND CONFORM TO CITY OF TULSA, OKLAHOMA STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO DIRECTLY COORDINATE HIS WORK WITH ADJACENT PROPERTY OWNERS AND ALL OTHER CONTRACTORS WORKING ON OR ADJACENT TO SITE. REFER TO THE SPECIAL PROVISIONS AS OUTLINED IN THE PROJECT MANUAL FOR DETAILS REGARDING COORDINATION WITH OTHER CONTRACTORS AND THE CITY OF TULSA.
- 6 SIDEWALK PAVING SHALL CONFORM TO MINIMUM TULSA ENGINEERING SERVICES DESIGN STANDARDS, SUCH AS MINIMUM AND MAXIMUM CROSS SLOPES AND PROVIDING POSITIVE DRAINAGE.
- 7 THE MAXIMUM RAMP SLOPE SHALL BE 1/12 (8.33%)



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BID ITEM	SPEC NO.	DESCRIPTION	PAY ITEM NOTE	UNIT
COMMUN	ICATIONS		- I	
1	SPECIAL	12 SM DIELECTRIC FIBER OPTIC CABLE		LF
2	SPECIAL	48 SM DIELECTRIC FIBER OPTIC CABLE		LF
3	SPECIAL	96 SM DIELECTRIC FIBER OPTIC CABLE		LF
4	SPECIAL	TRACER WIRE		LF
5	SPECIAL	FUSION SPLICE		EA
6	SPECIAL	FIBER OPTIC PIGTAIL		EA
7	SPECIAL	FIBER OPTIC JUMPER		EA
8	- SPECIAL	FIBER OPTIC SPLICE CLOSURE (WITH STORAGE BASKETS)		EA
9	SPECIAL	FIBER OPTIC SPLICE TRAY (SIZE)	2	EA
10	SPECIAL	SINGLE PANEL HOUSING		EA
11	SPECIAL	PATCH PANEL MODULES		EA
12	SPECIAL	FIBER OPTIC ACCEPTANCE TESTING		LS
13	601	PULL BOX SIZE TYPE III	3	EA
14	SPECIAL	PULL BOX SIZE SPLICE VAULT	3	EA
15	602	CONDUIT-TRENCHED	1, 3, 4, 11,21	LF
16	602	CONDUCT - DIRECTEDNAL BORE - OUTSEDE IDL	1, 3, 4, 11,22	LF
17	602	1.15" HDPESCH 4D conduct	۵0	LF

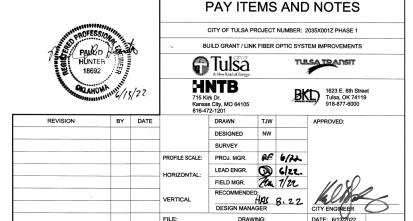
BID ITEM	SPEC NO.	DESCRIPTION	PAY ITEM NOTE	UNIT	
M					
13	COT 102	PROJECT SIGNS		LS	
1.9	201 (A)	CLEARING AND GRUBBING		LS	
70	COT 327	SAFETY FENCE		LS	
21	221 (C)	SILT FENCE		LS	
22	641	MOBILIZATION		EA	
23	642	CONSTRUCTION STAKING	2	EA	
2,4	SPECIAL	URBAN RIGHT-OF-WAY RESTORATION		EA	

PAY ITEM NOTES

- 1 ALL COSTS FOR REMOVING TREES (UP TO 6"), SHRUBS, STUMPS, POSTS, AND ALL OTHER DEBRIS AND/OR OBSTRUCTIONS NOT COVERED BY A SEPARATE PAY ITEM ARE INCLUDED IN THE PRICE BID.
- 2 CONSTRUCTION STAKING SHALL INCLUDE SURVEYING AND THE FURNISHING, PLACING, AND MAINTAINING OF THE CONSTRUCTION LAYOUT STAKES NECESSARY FOR THE PROPER COMPLETION AND INSPECTION OF THE ENTIRE PROJECT.
- 3 WASTE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A MANNER APPROVED BY THE ENGINEER.
- 4 CONTRACTOR SHALL REPAIR ANY IRRIGATION SYSTEMS DAMAGED OR REQUIRING RELOCATION DURING THE CONSTRUCTION OF THIS PROJECT TO THE SATISFACTION OF THE PROPERTY OWNER AND CITY ARBORIST. COST SHALL BE INCLUDED IN THE PRICE BID.
- 5 EROSION PROTECTION SHALL BE PLACED AROUND DRAINAGE INLETS AS REQUIRED TO PREVENT ENTRANCE OF EROSION MATERIAL. EROSION PROTECTION SHALL BE PLACED AS NECESSARY TO PREVENT EROSION WASH TO ADJACENT PROPERTY. ALL EROSION PROTECTION INSTALLED MUST BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE PROJECT. EROSION PROTECTION SHALL BE REMOVED AT THE END OF THE PROJECT AS DIRECTED BY THE ENGINEER, COST TO BE INCLUDED IN THE PRICE BID. THE PRICE INCLUDES THE COST OF SEDIMENT REMOVAL PER THE STORMWATER MANAGEMENT PLAN.
- THE USE OF FLY-ASH IN CONCRETE IS PROHIBITED.
- 7 REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.
- 8 IF WARNING LIGHTS ARE TO BE USED ON TRAFFIC CONTROL DEVICES, TYPE "A " LIGHTS SHALL ONLY BE USED ON DEVICES WARNING OF UNEXPECTED HAZARDS, AND SHALL NOT BE USED FOR DELINEATION OF THE TRAVELED WAY. ONLY TYPE "C" WARNING LIGHTS SHALL BE USED FOR DELINEATION OF THE TRAVELED WAY, AND TYPE "C" LIGHTS SHALL NOT BE USED FOR ANY OTHER PURPOSE.
- 9 A CERTIFIED ARBORIST SHALL OVERSEE ALL PLANTINGS AND OR REMOVAL OF TREES. CONTACT CITY ARBORIST TO ACCEPT FINAL PLANTINGS. CONTACT #: 918-596-2548
- 10 TREE GRATES ARE NOT ACCEPTABLE PER CITY ARBORIST. CONCRETE PAVERS ARE TO BE USED AS NECESSARY AROUND TREES.
- 11 THIS PAY ITEM SHALL BE COMPLETE IN PLACE AND SHALL INCLUDE ALL PIPE, STANDARD BEDDING MATERIAL AND TRENCH EXCAVATION, JOINT GASKETS AND ALL OTHER INCIDENTALS. NO ADDITIONAL COST WILL BE MADE.
- PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL REQUIRED FOR COMPLETION OF THE PROJECT.
- 13 THE COST TO REPLACE REMOVED OR DAMAGED SECTION CORNERS AND ALL OTHER PERMANENT RIGHT OF WAY MARKERS SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. NO ADDITIONAL PAYMENT WILL BE MADE.
- ALL EXISTING DRAINAGE STRUCTURES SHALL BE CLEANED AND CLEARED OF ALL SEDIMENTATION AND DEBRIS TO THE RIGHT OF WAY. COST OF CLEARING SHALL BE INCLUDED IN THE PRICE BID.
- 15 PAY ITEM INCLUDES REMOVAL OF ALL STRUCTURES AND OBSTRUCTIONS WITHIN PROJECT LIMITS NOT SPECIFIED BY OTHER ITEMS OF WORK.

PAY ITEM NOTES

- 16 MOBILIZATION FOR THE PROJECT (EXCLUDING WATER MOBILIZATION) IS TO BE INCLUDED IN THIS PAY ITEM. THE MAXIMUM ALLOWABLE AMOUNT WILL BE IN ACCORDANCE WITH THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION TABLE 641:1.
- 17 CONTRACTOR SHALL COORDINATE WITH HOMEOWNERS TO RESET ALL PAVERS, LANDSCAPE STONE, PRIVATE SIDEWALKS AND FENCES THAT ARE DISTURBED DURING CONSTRUCTION OPERATIONS. ALL MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR RESETTING OF SUCH ITEMS IS TO BE INCLUDED IN PRICE BID FOR URBAN RIGHT OF WAY RESTORATION.
- 18 UNCLASSIFIED EXCAVATION INCLUDES REMOVAL OF AGGREGATE BASE AND MODIFIED SUBGRADE UNDER EXISTING PAVEMENT TO BE REPAIRED.
- 19 PRICE BID SHALL INCLUDE MAINTENANCE, SEDIMENT REMOVAL, DISPOSAL, AND REMOVAL OF FILTERS AT PROJECT COMPLETION.
- AD THES PAY ITEM SHALL INCLUDE THE MATERIAL COSTS OF ALL CONDUCT, RELATED COUPLERS, AND PULL TAPE NECESSARY TO COMPLETE THE JOB.
- 21 THIS PAY ITEM COVERS THE COST OF TRENCHING IN CONDUIT FOR THE PROJECT SOME SEGMENTS WILL HAVE MULITIPLE CONDUITS INSTALLED WITHIN THE SAME TRENCH. REFER TO THE TABLE ON THE PLAN SHEETS FOR THE DETAILED SEGMENT BREAKBOWN.
- IN THIS PAY ITEM COURS THE COST OF DIRECTIONAL BORDNE CONDUIT FOR THE PROJECT. SOME SEGMENTS WILL HAVE MULTIPLE CONDUITS INSTALLED WITHIN THE SAME BORE PATH, REFER TO THE TABLE ON THE PLAN SHEETS FOR THE DETAILED SEGMENT OFERKOOMS.



ATLAS PAGE NO

SHEET 4 OF 99 SHEETS

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PLOTTED BY: mhare PLOT DATE: 16-JUN-2022 11: FILENAME: pw://pw-int.hntb.org

		BID ALTERNATE 1		
BID ITEM	SPEC NO.	DESCRIPTION	UNIT	QUANTITY
COMMUN	ICATIONS			
1	SPECIAL	12 SM DIELECTRIC FIBER OPTIC CABLE	LF	2,668
2	-SPECIAL	48 SM DIELECTRIC FIBER OPTIC GABLE NOT USED	-15	-0
3	SPECIAL	96 SM DIELECTRIC FIBER OPTIC CABLE	LF	10,870
4	SPECIAL	TRACER WIRE	LF	10,101
5	SPECIAL	FUSION SPLICE	EA	94
6	SPECIAL	FIBER OPTIC PIGTAIL	EA	20
7	SPECIAL	FIBER OPTIC JUMPER	EA	20
8	SPECIAL	FIBER OPTIC SPLICE CLOSURE (WITH STORAGE BASKETS)	EA	5
9	SPECIAL	FIBER OPTIC SPLICE TRAY	EA	5
10	SPECIAL	SINGLE PANEL HOUSING	EA	5
11	SPECIAL	PATCH PANEL MODULES	EA	5
12	SPECIAL	FIBER OPTIC ACCEPTANCE TESTING	LS	1
13	601	PULL BOX SIZE TYPE III	EA	18
14	SPECIAL	PULL BOX SIZE SPLICE VAULT	EA	7
15	602	CONDUCT - TRENCHED	LF	2,319
16	602	CONDUIT - DIRECTIONAL BORE - DUTSING LOL	LF	8,782
17	602	1. Y"HOPE &H YOCONDURT	LF	21,883
13	COT 102	PROJECT SIGNS	LS	1
18	201 (A)	CLEARING AND GRUBBING	LS	1
20	COT 327	SAFETY FENCE	LS	1
21	221 (C)	SILT FENCE	LS	1
21	641	MOBILIZATION	LS	1
23	642	CONSTRUCTION STAKING	LS	1
24	SPECIAL	URBAN RIGHT-OF-WAY RESTORATION	LS	1



QUANTITIES

CITY OF TULSA PROJECT NUMBER: 2035X001Z PHASE 1

BUILD GRANT / LINK FIBER OPTIC SYSTEM IMPROVEMENTS



			816-4	72-1201			
REVISION	BY	DATE		DRAWN	TJW		
				DESIGNED	NW		
				SURVEY			
			PROFILE SCALE:	PROJ. MGR.	PE	6	122
			HORIZONTAL:	LEAD ENGR.	Ø.	6	22.
			11011LEGITITLE	FIELD MGR.	Pru	7	22
			VERTICAL	RECOMMENDE	445	8	. 22
				DESIGN MANA	GER		

FILE: ATLAS PAGE NO:

THE F	OLLOWING CITY OF TULSA STANDARDS WILL BE REQUIRED
NO.	TITLE
126	STANDARD SILT FENCE AND CONSTRUCTION ENTRANCE
304	BEDDING DETAIL - RIGID PIPE
313	VALVE BOX
314	MANHOLE STEPS
315	THRUST BLOCKS AND TRENCH CONDITIONS
601	PULL BOX INSTALLATION
602	CONDUIT INSTALLATION
610A	332 CONTROLLER CABINET DETAIL
610C	332 CABINET WIRING DETAIL
612	CABINET GUARD DETAIL
618	BONDING DIAGRAM
701	RESIDENTIAL CONCRETE DRIVERWAY CONCRETE STREET
706	COMMERCIAL DRIVEWAY
707	COMMERCIAL DRIVEWAY
708	COMMERCIAL DRIVEWAY ASPHALT
713	PAVEMENT REMOVAL AND REPLACEMENT
714	PAVEMENT CUTS
726	ASPHALT PAVEMENT STANDARD DETAILS FOR RESIDENTIAL AND COLLECTOR STREETS
727	CONCRETE PAVEMENT STANDARD DETAILS FOR RESIDENTIAL AND COLLECTOR
	STREETS (1 OF 2)
729	CONCRETE PAVEMENT STANDARD DETAILS FOR RESIDENTIAL AND COLLECTOR
	STREETS (2 OF 2)
790	STANDARD SIDEWALK RAMP

THE FOLLO	OWING ODOT	STANDARDS WILL BE REQUIRED
SHEET NO.	DESIGN NO.	STANDARD NAME
T-501	TCS1-1-01	TRAFFIC CONTROL CONSTRUCTION NOTES
T-503	TCS3-1-01	TEMPORARY TRAFFIC CONTROL ELEMENTS
T-506	TCS6-1-02	CHANNELIZING DEVICES
T-507	TCS7-1	ADVANCE WARNING SIGNS
T-508	TCS8-1-00	CONSTRUCTION SIGNS
T-509	TCS9-1-01	CONSTRUCTION SIGNS
T-510	TCS10-1-00	CONSTRUCTION SIGNS
T-511	TCS11-1-01	CONSTRUCTION SIGNS
T-514	TCS14-1-00	CONSTRUCTION SIGNS
T-519	TCS19-1-01	CONSTRUCTION SIGNS
T-521	TCS21-1-02	CONSTRUCTION ZONE PAVEMENT MARKINGS
T-522	TCS22-1-00	CONSTRUCTION ZONE PAVEMENT MARKINGS
	I	

STANDARDS SHEET

CITY OF TULSA PROJECT NUMBER: 2035X001Z PHASE 1



A New Rad of Evergo.

HNTB

715 Kirk Dr.

Kansas City, MO 64105
816-472-1201

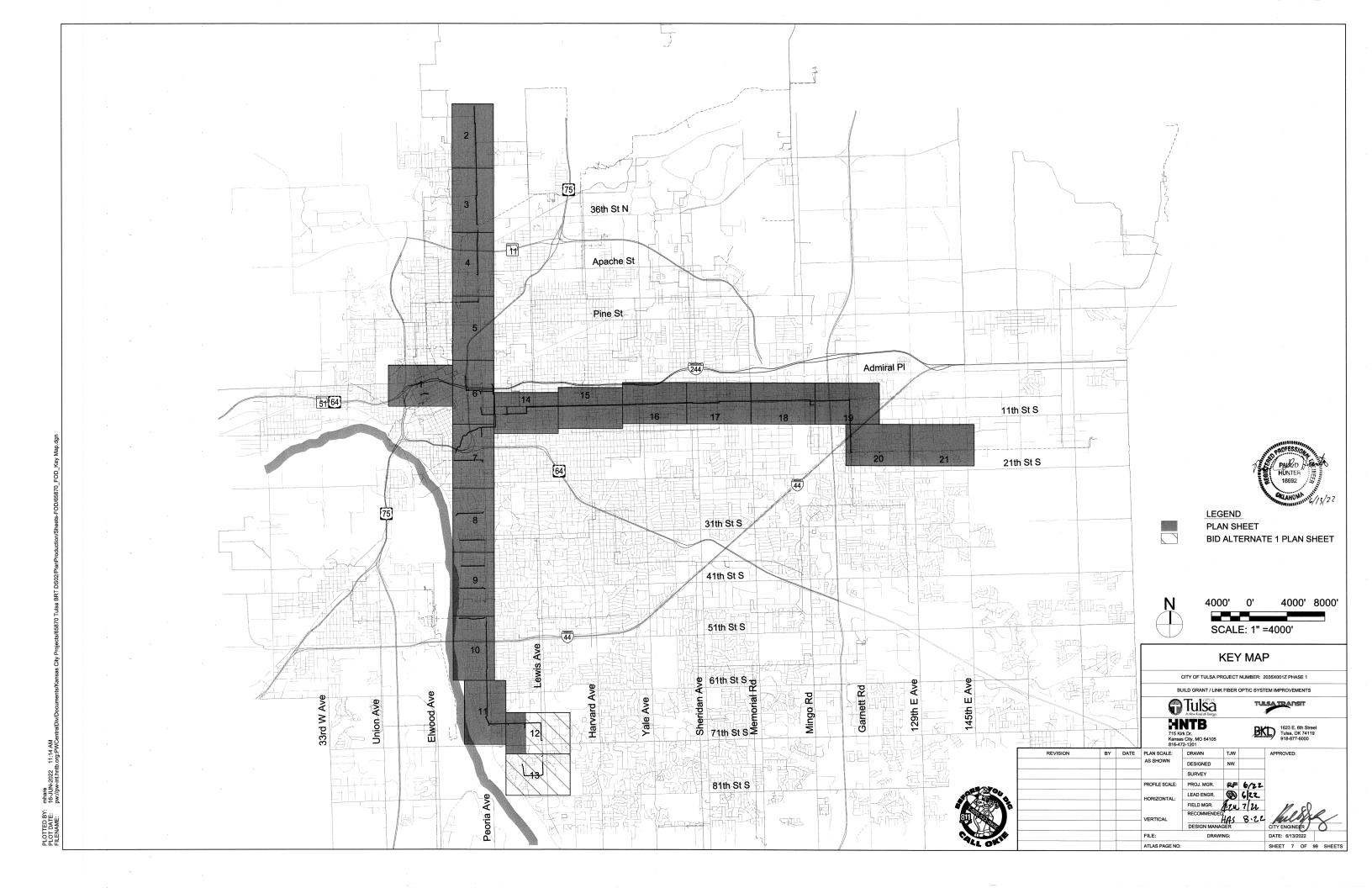
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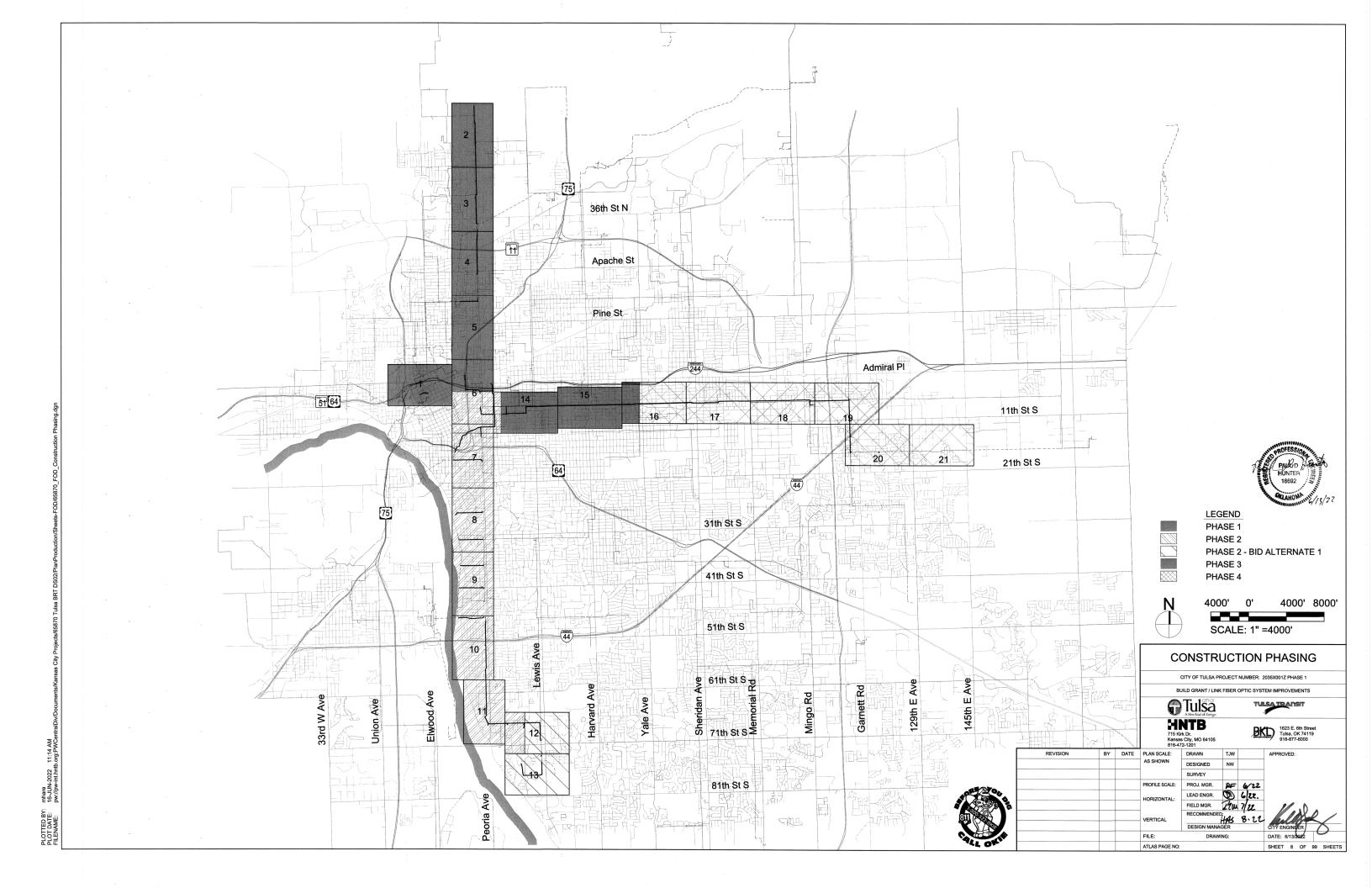
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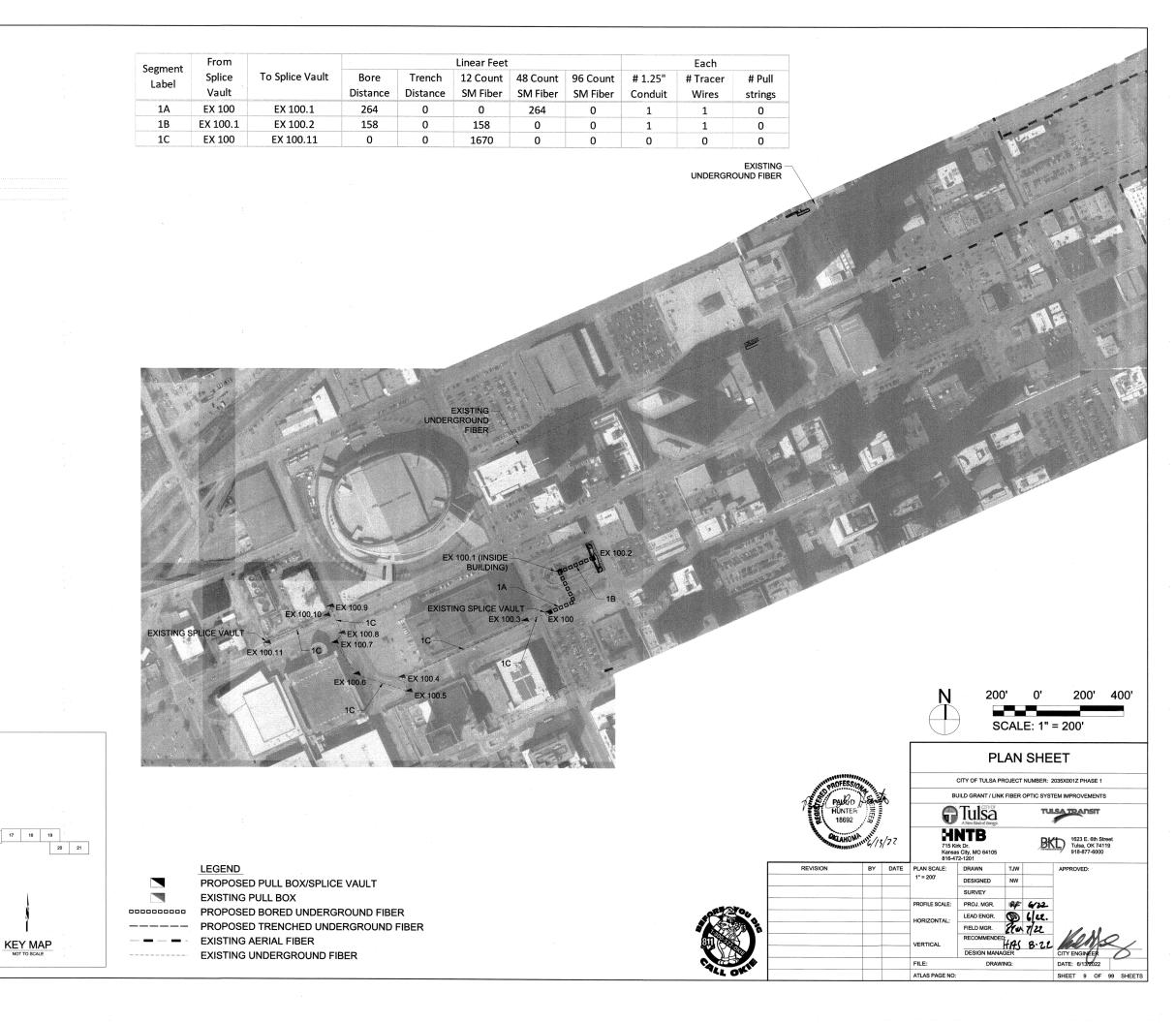
010-4			
	DATE	BY	REVISION
PROFILE SCALE:			
HORIZONTAL:			
VERTICAL	4		
FILE:			

SURVEY PROJ. MGR. 45 6/22
LEAD ENGR. 5 6/22
FIELD MGR. 7/22
RECOMMENDED HAS 8.21
DESIGN MANAGER

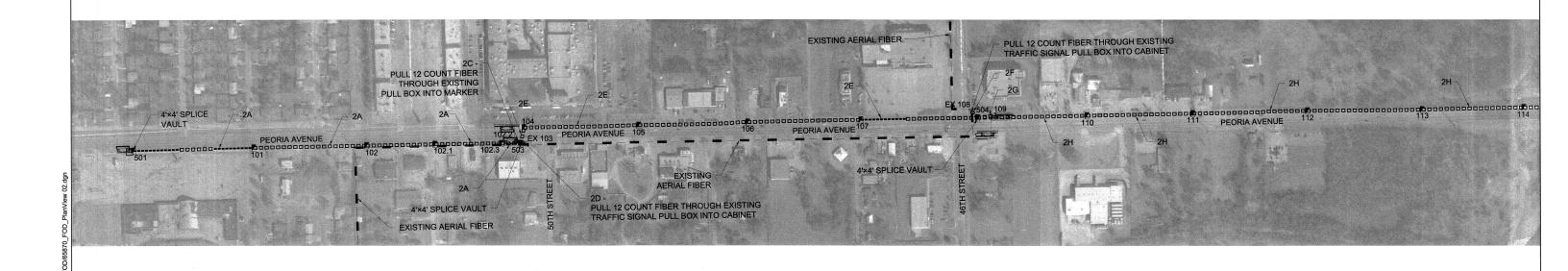
DATE: 6/13/2022







Cogmont	From				Linear Feet				Each	
Segment Label	Splice Vault	To Splice Vault	Bore Distance	Trench Distance	12 Count SM Fiber	48 Count SM Fiber	96 Count SM Fiber	# 1.25" Conduit	# Tracer Wires	# Pull strings
2A	501	503	1309	378	0	0	1687	3	1	2
2C	503	102.2	29	0	29	0	0	1	1	0
2D	503	EX 103	20	0	20	0	0	1	1	0
2E	503	504	1847	200	0	0	2047	3	1	2
2F	504	EX 108	38	0	38	0	0	1	1	0
2G	504	109	77	0	77	0	0	1	1	0
2H	504	505	3788	0	0	0	3788	3	1	2



LEGEND

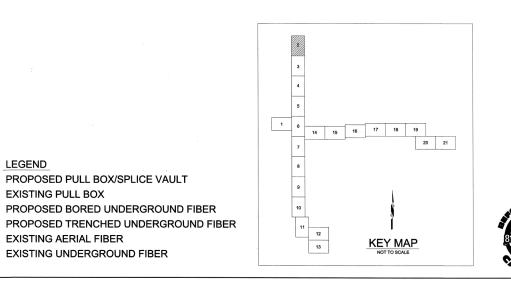
EXISTING PULL BOX

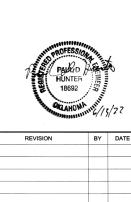
EXISTING AERIAL FIBER

EXISTING UNDERGROUND FIBER

PROPOSED PULL BOX/SPLICE VAULT

PROPOSED BORED UNDERGROUND FIBER









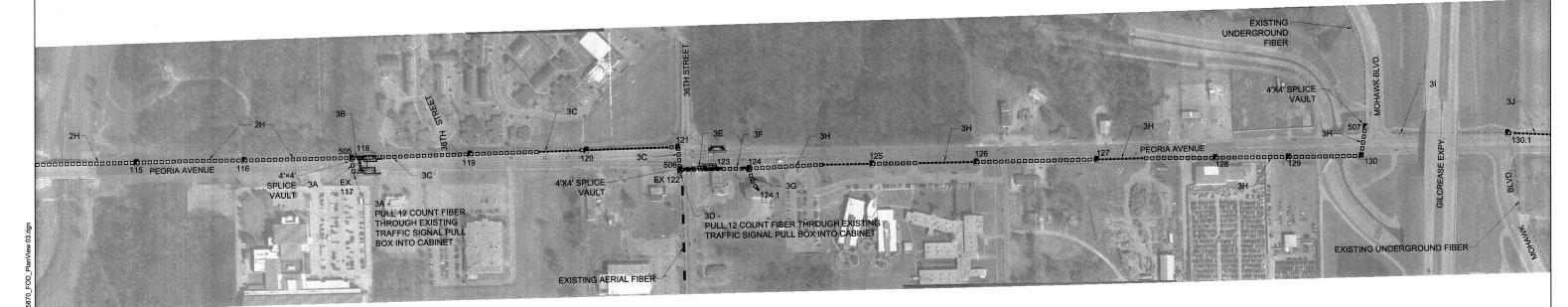
200'

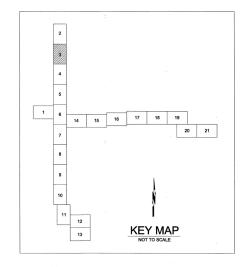
1623 E. 6th Street Tulsa, OK 74119 918-877-6000

200' 400'

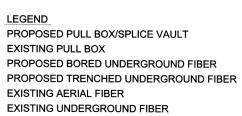
			816-4				
REVISION	BY	DATE	PLAN SCALE:	DRAWN	TJW		APPROVED:
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				SURVEY			
			PROFILE SCALE:	PROJ. MGR.	N	6/22	
			HORIZONTAL:	LEAD ENGR.	Ø	6/12.	
			TIONIZONITAE.	FIELD MGR.	Zon	7/22	2/.10
			VERTICAL	RECOMMENDE	HAS	8.22	Lel 1829
				DESIGN MANAGER			CITY ENGINEER
			FILE:	DRAV	VING:		DATE: 6/13/2022
			171 10 D105 110				AUFET 10 OF 00

Casmant	From				Linear Feet			Each			
Segment Label	Splice Vault		Bore Distance	Trench Distance	12 Count SM Fiber	48 Count SM Fiber	96 Count SM Fiber	# 1.25" Conduit	# Tracer Wires	# Pull strings	
2H .	504	505	3788	0	0	0	3788	3	1	2	
3A	505	EX 117	73	, 0	73	0	0	1	:1	0	
3B	505	118	53	0	53	0	0	1	1	0	
3C	505	506	945	531	0	0	1476	3	1	2	
3D	506	EX 122	20	0	20	0	0	1	1	0	
3E	506	123	144	0	144	0	0	1	1	0	
3F	506	124	292	0	292	0	292	3	2	1	
3G	124	124.1	105	0	105	0	0	1	1	0	
3H .	124	507	2056	654	0	, 0	2710	3	1	2	
31	507	130.1	0	, 0	0	0	605	0	:0	0	
3J	130.1	509	615	1116	0	0	1731	3	1	2	











				816-47	2-1201	
	REVISION	BY	DATE	PLAN SCALE:	DRAWN TJW	
				1" = 200'	DESIGNED NW	
					SURVEY	
				PROFILE SCALE:	PROJ. MGR.	4
		>		HORIZONTAL:	LEAD ENGR.	4
016				HORIZOITAL.	FIELD MGR. PZW	7/
ī				VERTICAL	RECOMMENDED:	3.
7					DESIGN MANAGER	
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200' 400' SCALE: 1" = 200'



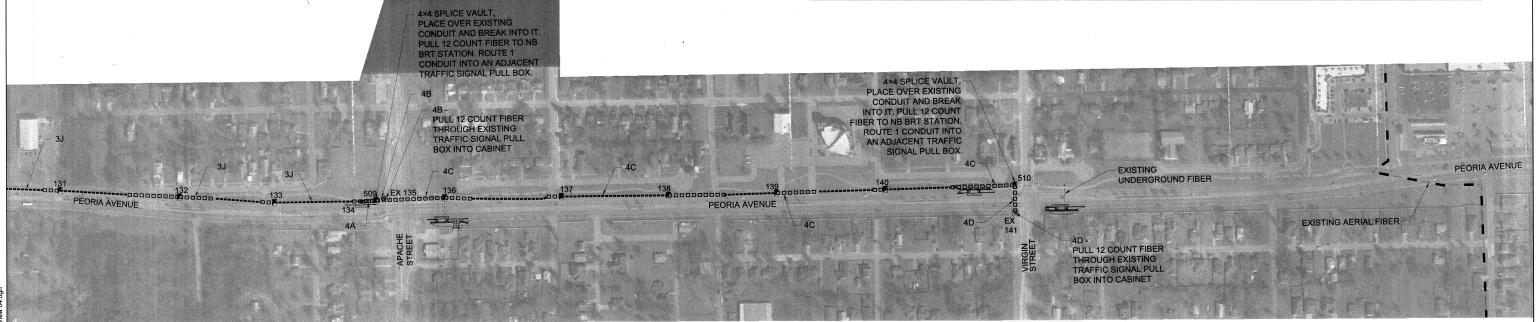
Tulsa TULSA TRANSIT

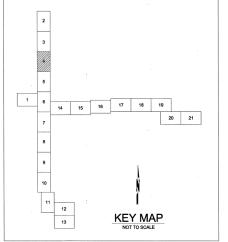


1623 E. 6th Street Tulsa, OK 74119 918-877-6000

REVISION	BY	DATE	PLAN SCALE:	DRAWN	TJW		APPROVED:
			1" = 200'	DESIGNED	NW		
			-	SURVEY			
			PROFILE SCALE:	PROJ. MGR.	45	622	
	>		HORIZONTAL:	LEAD ENGR.	O	6/22	
			HORIZONTAL.	FIELD MGR.	Pzm	7/22	1/10
			VERTICAL	RECOMMEND		8.22	Mark Mil
			VERTICAL	DESIGN MAN		D. LC	CITY ENGINEER
			FILE:	DRAV	VING:		DATE: 6/13/2022
			ATLAS PAGE NO:				SHEET 11 OF 99 SHEETS

Segment	From				Each					
Label	Splice Vault	To Splice Vault	Bore Distance	Trench Distance	12 Count SM Fiber	48 Count SM Fiber	96 Count SM Fiber	# 1.25" Conduit	# Tracer Wires	# Pull strings
3J	130.1	509	615	1116	0	0	1731	3	1	2
4A	509	134	78	0	78	0	0	1	1	0
4B	509	EX 135	46	0	46	0	0	1	1	0
4C	509	510	1191	1492	0	0	2683	3	1	2.
4D	510	EX 141	117	0	117	0	0	1	1	0







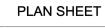
LEGEND PROPOSED PULL BOX/SPLICE VAULT EXISTING PULL BOX PROPOSED BORED UNDERGROUND FIBER PROPOSED TRENCHED UNDERGROUND FIBER EXISTING AERIAL FIBER

EXISTING UNDERGROUND FIBER



	PANG	n Want	A	"	JILD GRANT / LINI	K FIDEK (UP110 3131	I ENI IMPROVEMENTO	
	HUNTI	ER ≅	Ů	0	Tulsa A New Kind of Energy.		TUI	LSA TRANSIT	
	QIZAHO QIZAHO	DMA HELLING	3/27	715 Ki Kansa	NTB rk Dr. s City, MO 64105 72-1201		BK	1623 E. 6th Stree Tulsa, OK 74119 918-877-6000	
Γ	REVISION	BY	DATE	PLAN SCALE:	DRAWN	TJW		APPROVED:	
				1" = 200"	DESIGNED	NW			
					SURVEY				
				PROFILE SCALE:	PROJ. MGR.	RF	6/22		
00				HORIZONTAL:	LEAD ENGR.	0	6)62		
16				HORIZONTAL.	FIELD MGR.	Zen	2/22	12.0	
ζ I ' [VERTICAL	RECOMMENDE	D:		16.180	2/
				TERRIBAL	DESIGN MANA	AGER	8.22	CITY ENGINEER	X
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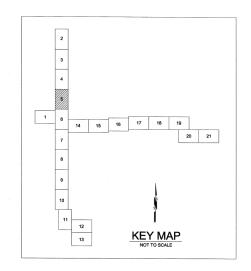


CITY OF TULSA PROJECT NUMBER: 2035X001Z PHASE 1

ATLAS PAGE NO: SHEET 12 OF 99 SHEETS



Segment From	From				Each					
Label	Splice Vault	To Splice Vault	Bore Distance	Trench Distance	12 Count SM Fiber	48 Count SM Fiber	96 Count SM Fiber	# 1.25" Conduit	# Tracer Wires	# Pull strings
5 A	EX 142.1	512	477	0	477	0	0	3	1	2
5B	512	EX 142	17	0	17	0	0	1	1	0
5C	512	145.1	1770	0	0	1770	0	3	1	2
5D	145.1	BUILDING	0	0	0	400	. 0	0	0	0



PLAN NOTE

CONTRACTOR TO COORDINATE WITH GARY CUMMINS OF THE CITY OF TULSA FOR BUILDING ACCESS (SEGMENT 5D). CONTRACTOR TO TERMINATE NEW FIBER INTO EXISTING FIBER RACK.



200' 200' 400' SCALE: 1" = 200'



PLAN SHEET

CITY OF TULSA PROJECT NUMBER: 2035X001Z PHASE 1

BUILD GRANT / LINK FIBER OPTIC SYSTEM IMPROVEMENTS Tulsa TULSA TRANSIT

1623 E. 6th Street Tulsa, OK 74119 918-877-6000

	REVISION	BY	DATE	PLAN SO 1" = 200
				PROFILE
6				HORIZO
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				VERTIC
>				FILE:

			816-4	/2-1201	
REVISION	BY	DATE	PLAN SCALE:	DRAWN	TJW
			1" = 200'	DESIGNED	NW
				SURVEY	
			PROFILE SCALE:	PROJ. MGR.	0
			HORIZONTAL:	LEAD ENGR.	(D)
			TIONIZONTAL.	FIELD MGR.	Zu
			VERTICAL	RECOMMENDE	
				DESIGN MANA	AGER
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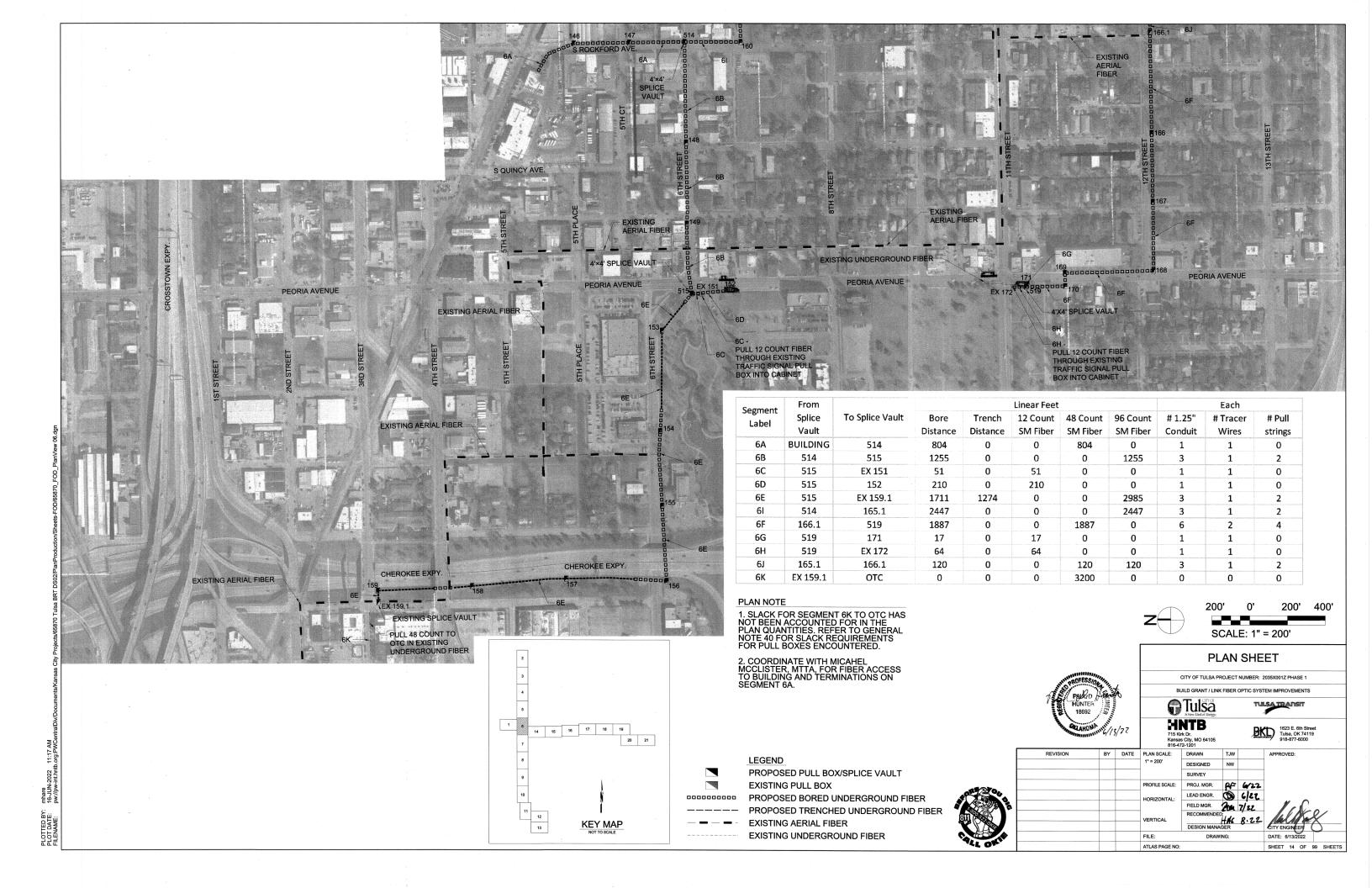
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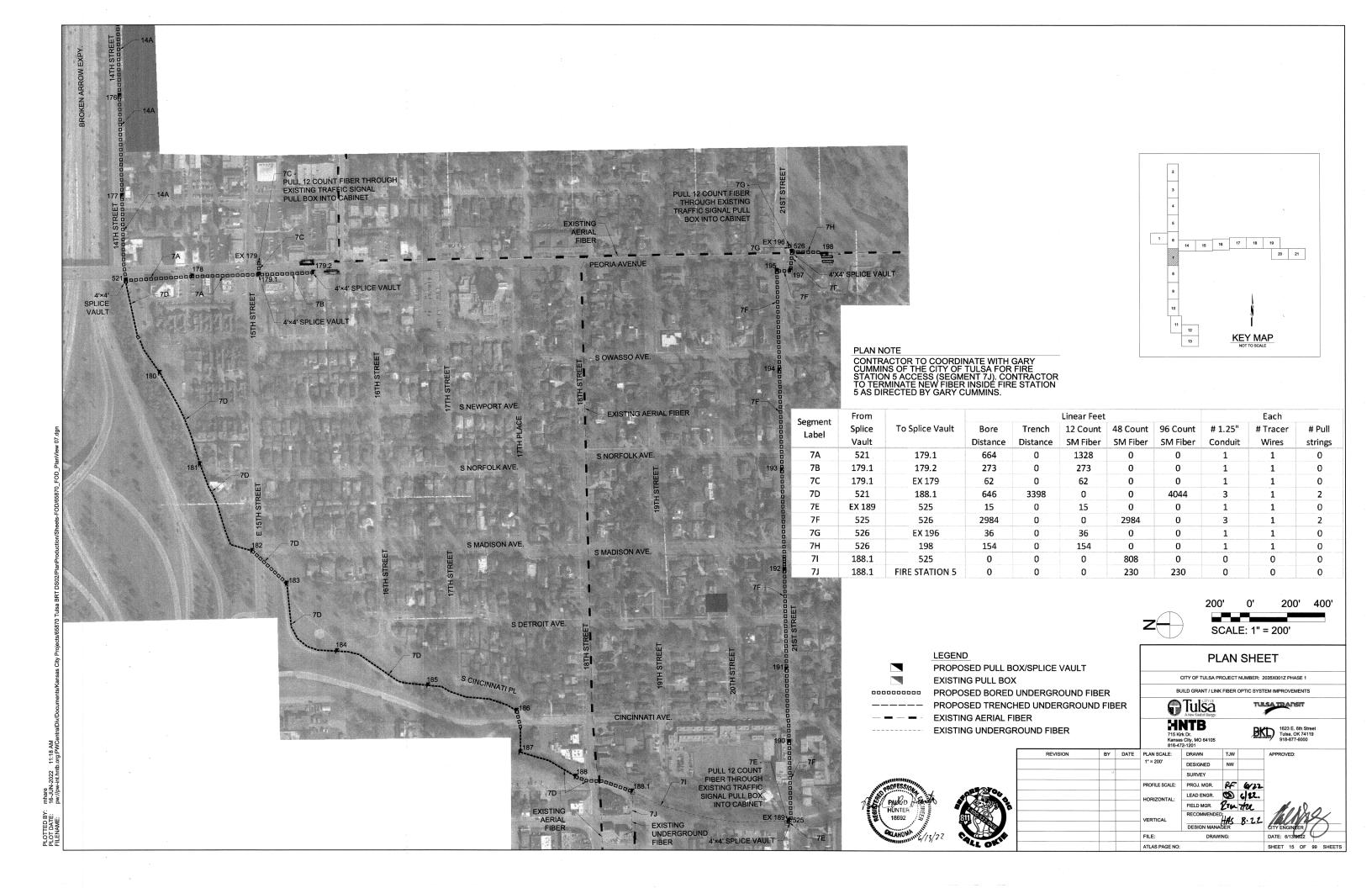
SHEET 13 OF 99 SHEETS

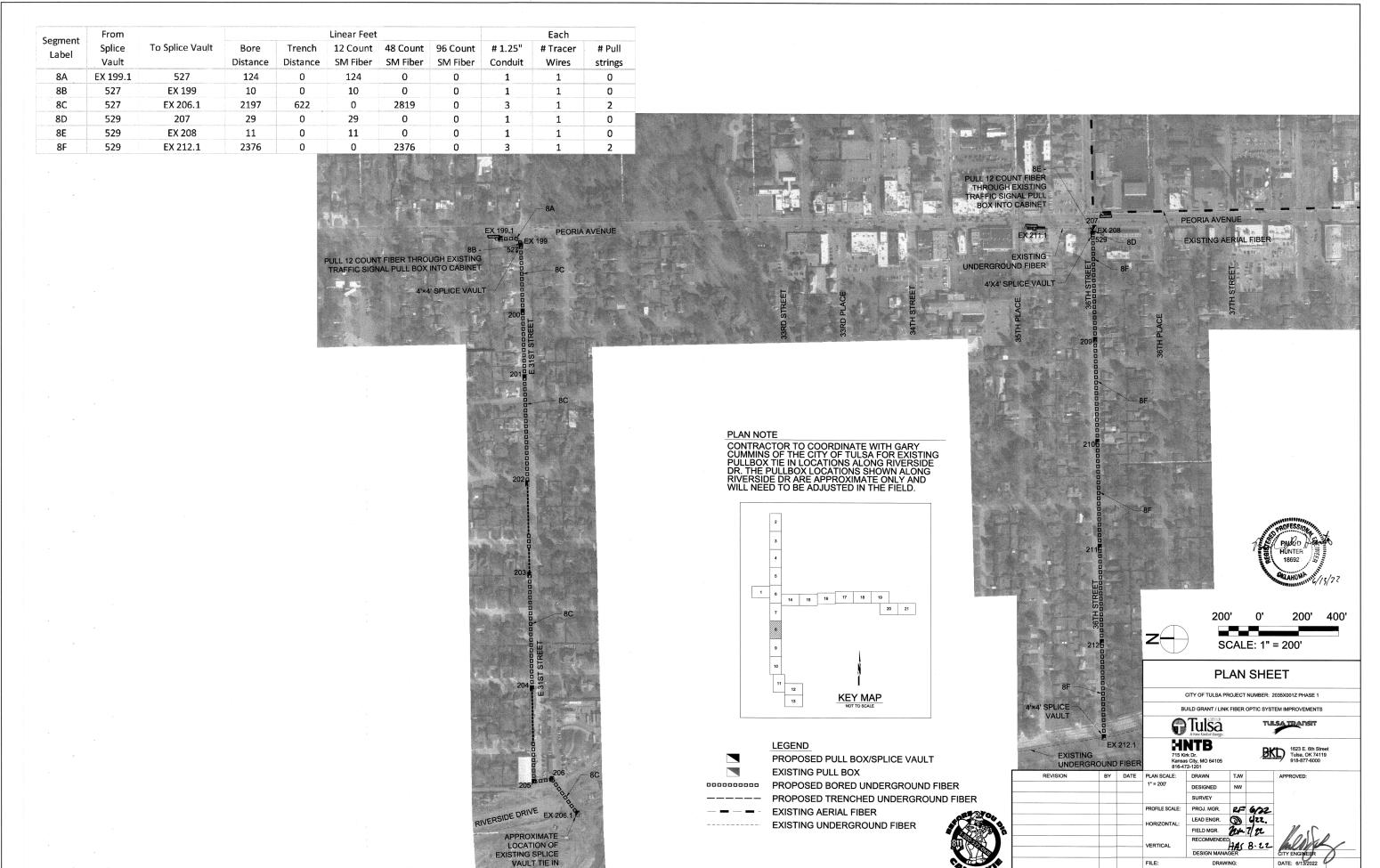
PROPOSED PULL BOX/SPLICE VAULT **EXISTING PULL BOX** PROPOSED BORED UNDERGROUND FIBER PROPOSED TRENCHED UNDERGROUND FIBER EXISTING AERIAL FIBER

EXISTING UNDERGROUND FIBER

LEGEND







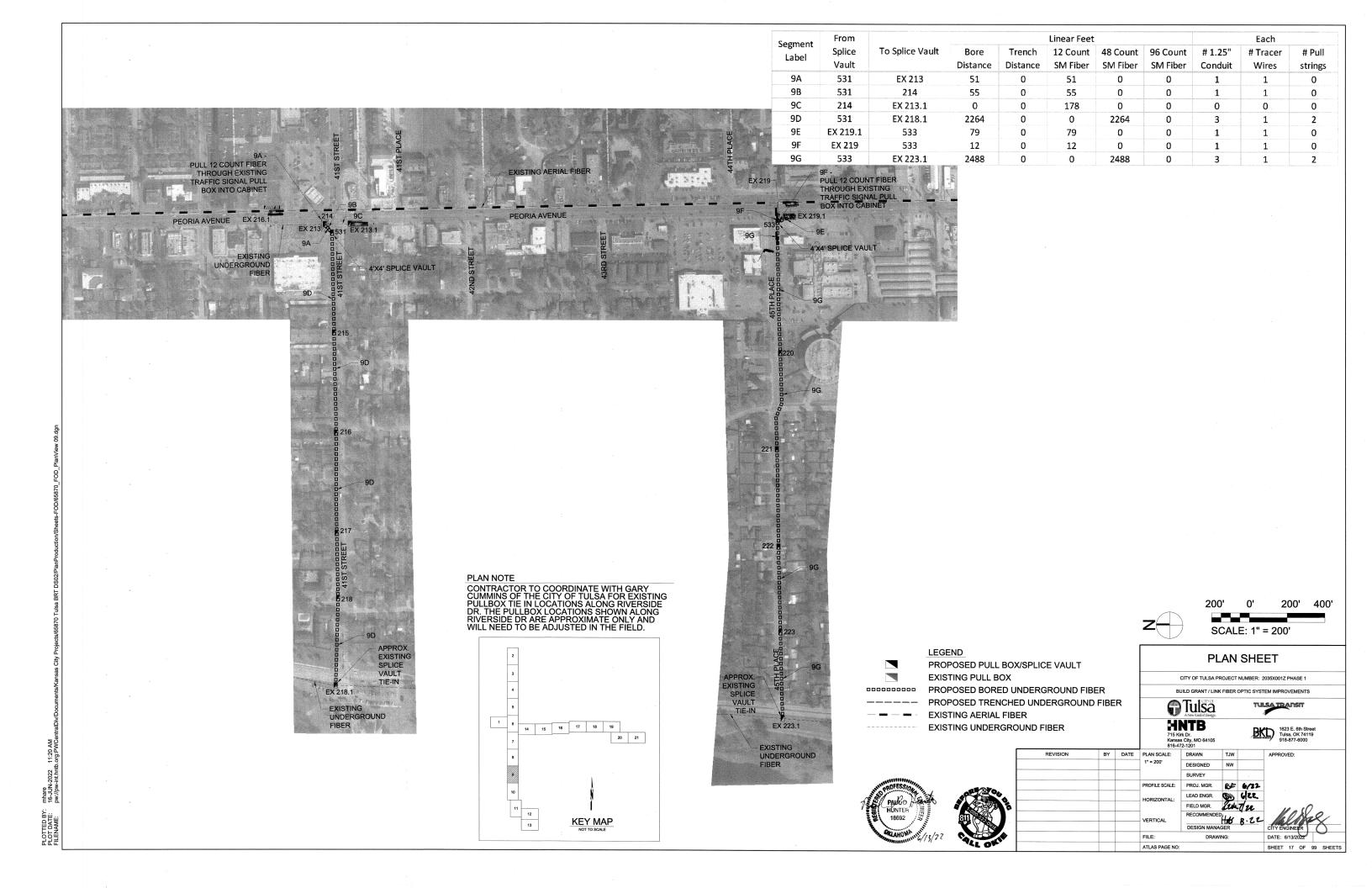
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SHEET 16 OF 99 SHEETS

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PLOTTED BY: mhare PLOT DATE: 16-JU FILENAME: pw://p





Segment	From						Each			
Label	Splice Vault	To Splice Vault	Bore Distance	Trench Distance	12 Count SM Fiber	48 Count SM Fiber	96 Count SM Fiber	# 1.25" Conduit	# Tracer Wires	# Pull strings
10A	EX 226	EX 233.1	1261	1361	0	0	2622	3	1	2
10B	EX 226	EX 235	0	0	0	0	726	0	0	0
10C	EX 235	537	27	0	27	0	27	3	2	1
10D	537	EX 235.1	397	0	397	0	0	1	1	0
10E	537	538	2067	289	0	0	2356	3	1	2
10F	538	EX 240	36	0	36	0	0	1	1	0
10G	538	241	64	0	64	0	0	1	1	0
10H	538	246	1159	1139	0	0	2298	3	1	2
101	246	539	300	0	300	0	300	4	2	2
10J	539	EX 248	35	0	35	0	0	1	1	0
10K	539	248.1	0	0	0	0	125	0	0	0
10L	248.1	540	2924	145	0	0	3069	3	1	2

KEY MAP

PLAN NOTE

CONTRACTOR TO COORDINATE WITH GARY CUMMINS OF THE CITY OF TULSA FOR EXISTING PULLBOX TIE IN LOCATIONS ALONG RIVERSIDE DR. THE PULLBOX LOCATION SHOWN ALONG RIVERSIDE DR IS APPROXIMATE ONLY AND WILL NEED TO BE ADJUSTED IN THE FIELD.

LEGEND

PROPOSED PULL BOX/SPLICE VAULT

EXISTING PULL BOX

000000000

PROPOSED BORED UNDERGROUND FIBER PROPOSED TRENCHED UNDERGROUND FIBER

EXISTING AERIAL FIBER

EXISTING UNDERGROUND FIBER



	PLAN SHEET
-	CITY OF TULSA PROJECT NUMBER: 2035X001Z PHASE 1
	BUILD GRANT / LINK FIBER OPTIC SYSTEM IMPROVEMENTS

Tulsa

200'

0'

SCALE: 1" = 200'

HNTB

1623 E. 6th Street Tulsa, OK 74119 918-877-6000

TULSA TRANSIT

200' 400'

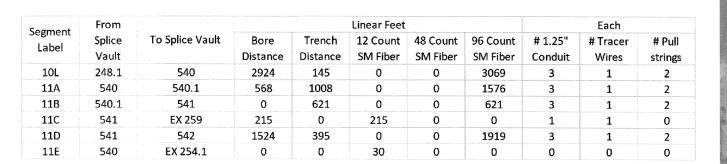
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			1" = 200'	DESIGNED	NW		
				SURVEY			
			PROFILE SCALE:	PROJ. MGR.	14	6/22	
			HORIZONTAL:	LEAD ENGR.	1	6/22.	
			HORIZOITAL.	FIELD MGR.	Zru	7/11	
			VERTICAL	RECOMMENDED	Lec	712 B·22	Me.
			VEITHORE	DECICNI MANIA		B. C.	

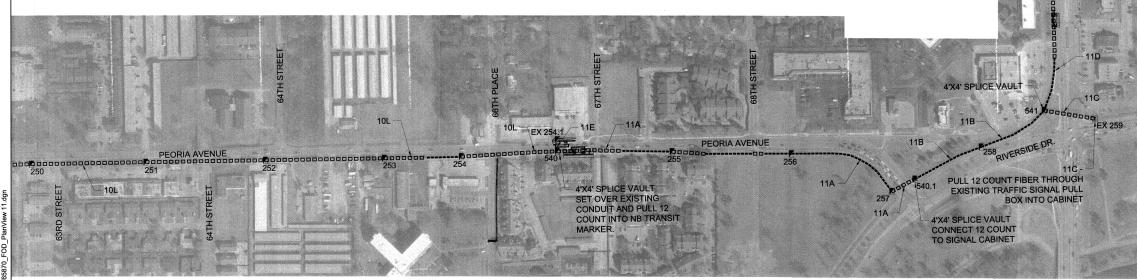
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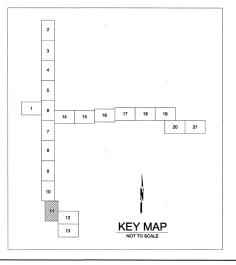
10A

RIVERSIDE DRIVE

APPROX. EXISTING SPLICE VAULT TIE-IN







LEGEND

PROPOSED PULL BOX/SPLICE VAULT

EXISTING PULL BOX

PROPOSED BORED UNDERGROUND FIBER PROPOSED TRENCHED UNDERGROUND FIBER

EXISTING AERIAL FIBER

EXISTING UNDERGROUND FIBER



200' 400' SCALE: 1" = 200'



PLAN SHEET

CITY OF TULSA PROJECT NUMBER: 2035X001Z PHASE 1



TULSA TRANSIT

1623 E. 6th Street Tulsa, OK 74119 918-877-6000

SHEET 19 OF 99 SHEETS

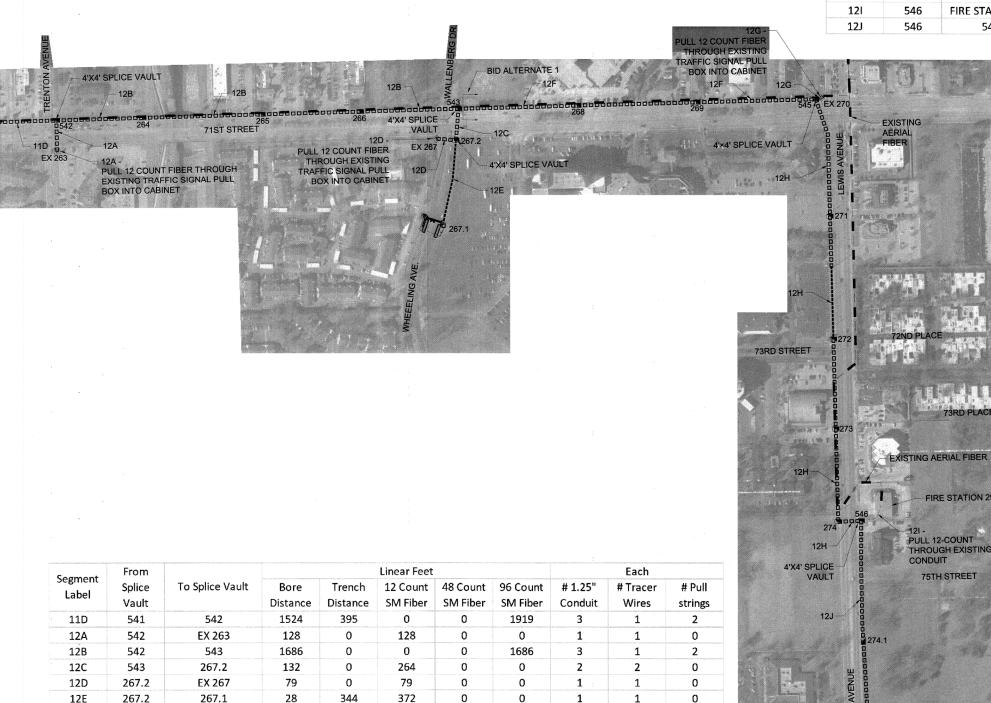
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	1" = 200'	DESIGNED	NW		
		SURVEY			
	PROFILE SCALE:	PROJ. MGR.	20	6/22	
-	HORIZONTAL:	LEAD ENGR.	@	6122.	
		FIELD MGR.	au	•	11.0
	VERTICAL	RECOMMENDE	D:		la Wal
1		DESIGN MANA	GER	0.6-	CITY ENGINEER
	FILE:	DRAW	ING:		DATE: 6/13/2022
_	DATE	B16-41 DATE PLAN SCALE: 1* = 200' PROFILE SCALE: HORIZONTAL: VERTICAL	1" = 200' DESIGNED SURVEY PROFILE SCALE: PROJ. MGR. HORIZONTAL: LEAD ENGR. FIELD MGR. RECOMMENDE VERTICAL DESIGN MANA	B16-472-1201 DATE PLAN SCALE: DRAWN TJW 1" = 200" DESIGNED NW SURVEY PROFILE SCALE: PROJ. MGR. HORIZONTAL: LEAD ENGR. VERTICAL VERTICAL DESIGN MANAGER	B16472-1201 DRAWN TJW DESIGNED NW SURVEY PROFILE SCALE: PROJ. MGR. DF 6/22

ATLAS PAGE NO:









PLAN NOTE

1. ALL WORK CONTINUING EAST OF SPLICE VAULT 543 ALONG 71ST STREET AND SOUTH ALONG LEWIS AVENUE IS PART OF BID ALTERNATIVE 1.

2. COORDINATE WITH GARY CUMMINS OF THE CITY OF TULSA FOR ACCESS TO FIRE STATION 29 WITH SEGMENT 12I. GARY CAN BE REACHED BY EMAIL AT GCUMMINS@CITYOFTULSA.ORG.

LEGEND

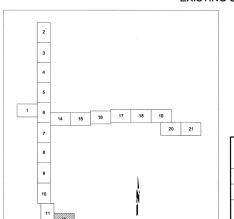
PROPOSED PULL BOX/SPLICE VAULT

EXISTING PULL BOX

PROPOSED BORED UNDERGROUND FIBER PROPOSED TRENCHED UNDERGROUND FIBER

— — EXISTING AERIAL FIBER

EXISTING UNDERGROUND FIBER



KEY MAP

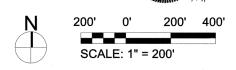
FIRE STATION 29

PULL 12-COUNT

11999 8 1

THROUGH EXISTING CONDUIT

75TH STREET

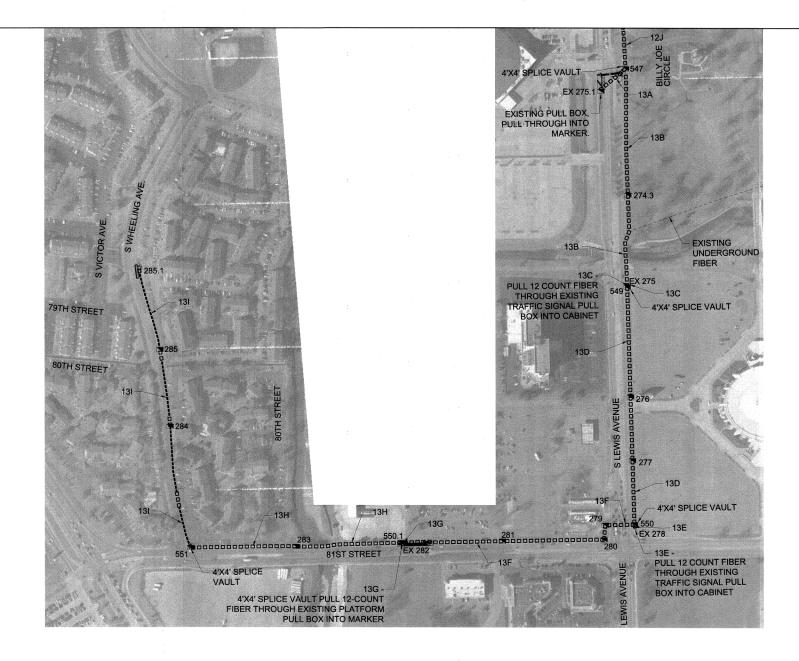




715 Kirk Dr. Kansas City, MO 64105 816-472-1201

1623 E. 6th Street Tulsa, OK 74119 918-877-6000

				010-47	2-1201				
	REVISION	BY	DATE	PLAN SCALE:	DRAWN	TJW		APPROVED:	
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					SURVEY				
				PROFILE SCALE:	PROJ. MGR.	RF	6/22	*	
				HORIZONTAL:	LEAD ENGR.	3	6)zz.		
S. S. S.				HORIZOITAL.	FIELD MGR.	Zem	7/02	1.0	
				VERTICAL	RECOMMENDE	HAC	8.22	Le losse	
					DESIGN MANA			CITY ENGINEER	
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TOK				ATLAS PAGE NO:				SHEET 20 OF 99 SH	HEETS

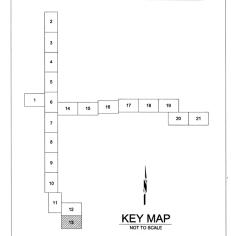


				Bid A	lternate 1					
Segment	From				Each					
Label	Splice Vault	To Splice Vault	Bore Distance	Trench Distance	12 Count SM Fiber	48 Count SM Fiber	96 Count SM Fiber	# 1.25" Conduit	# Tracer Wires	# Pull strings
12 J	546	547	1515	0	0	0	1515	3	1	2
13A	547	EX 275.1	137	0	137	0	0	1	1	0
13B	547	549	890	0	0	0	890	3	1	2
13C .	549	EX 275	10	0	10	0	0	1	1	0
13D	549	550	997	0	0	0	997	3	1	2
13E	550	EX 278	15	0	15	0	0	1	1	0
13F	550	550.1	1036	0	0	0	1036	3	1	2
13G	550.1	EX 282	23	0	23	0	23	1	1	0
13H	550.1	551	882	0	0	0	882	3	1	2
13I	551	285.1	182	1012	1194	0	0	3	1	2

PLAN NOTE ALL WORK ON THIS SHEET IS PART OF BID ALTERNATIVE 1.



LEGEND PROPOSED PULL BOX/SPLICE VAULT EXISTING PULL BOX PROPOSED BORED UNDERGROUND FIBER ---- PROPOSED TRENCHED UNDERGROUND FIBER — — — EXISTING AERIAL FIBER **EXISTING UNDERGROUND FIBER**





200' 400' 200' 0' SCALE: 1" = 200'

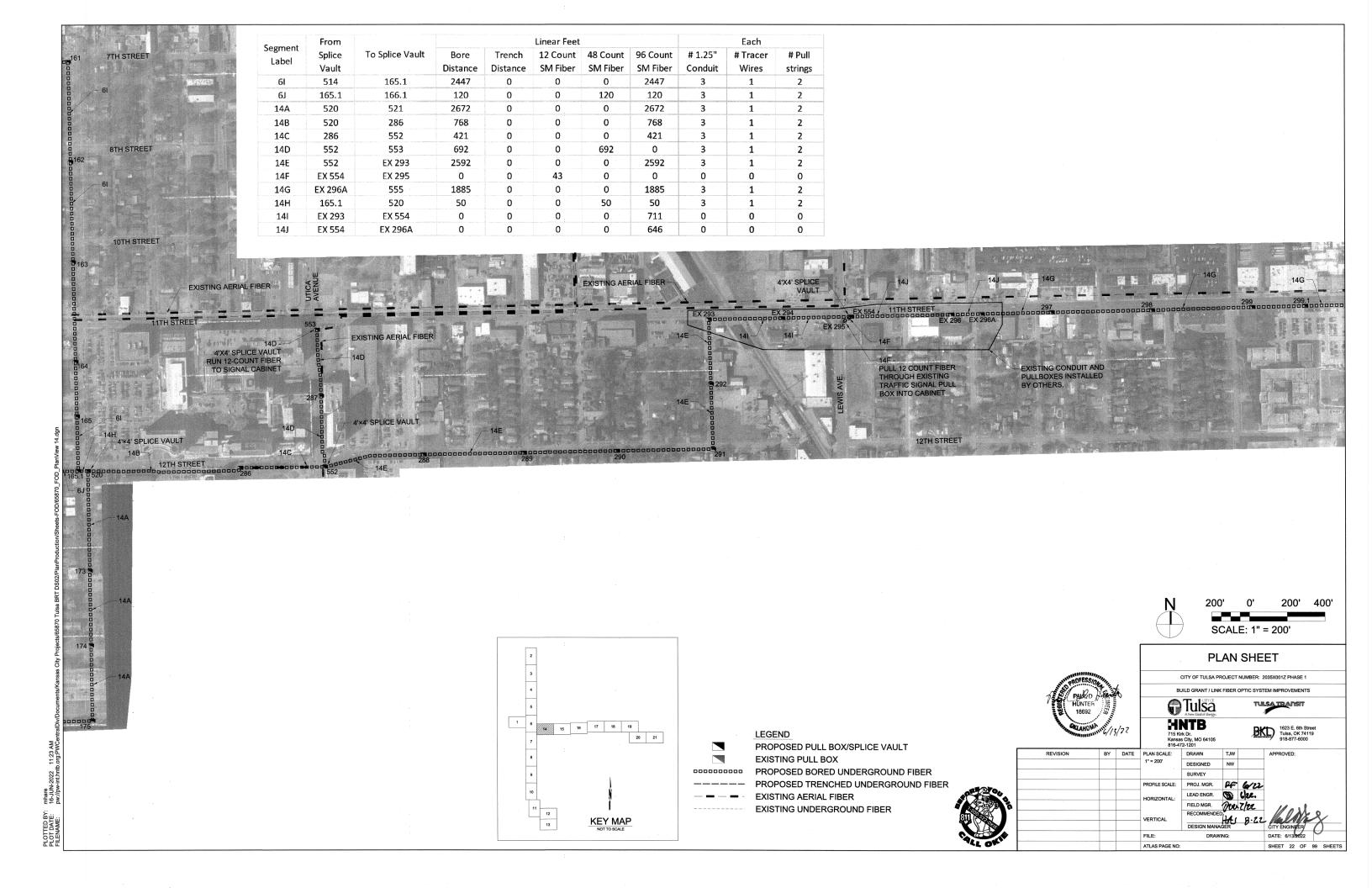
PLAN	SHEET
CITY OF TULSA PROJEC	T NUMBER: 2035X001Z PHASE 1
BUILD GRANT / LINK FIBER	R OPTIC SYSTEM IMPROVEMENTS
Tulsa A New Klad of Energy.	TULSA TRANSIT

HNTB 715 Kirk Dr. Kansas City, MO 64105 816-472-1201

1623 E. 6th Street Tulsa, OK 74119 918-877-6000

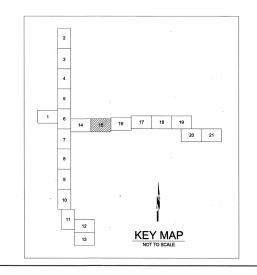
				816-47	2-1201			
	REVISION	BY	DATE	PLAN SCALE:	DRAWN	TJW		APPROVED:
				1" = 200'	DESIGNED	NW		
					SURVEY			
-40%				PROFILE SCALE:	PROJ. MGR.	PF	6/22	
				HORIZONTAL:	LEAD ENGR.	Ø.	6/22	
Service of					FIELD MGR.	Zu	7/22	1/- 10
				VERTICAL	RECOMMENDE	HAC	8.22	60M22/
N Dec					DESIGN MANA	GER	000	CITY ENGINEER
				FILE:	DRAW	/ING:		DATE: 6/13/2022
41 OF				ATLAS PAGE NO:				SHEET 21 OF 99 SHEETS

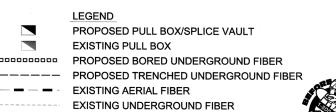
PLOTTED BY: PLOT DATE: FILENAME:



Segment	From				Each					
Label	Splice Vault	To Splice Vault	Bore Distance	Trench Distance	12 Count SM Fiber	48 Count SM Fiber	96 Count SM Fiber	# 1.25" Conduit	# Tracer Wires	# Pull strings
15A	555	EX 300	10	0	10	0	0	1	1	0
15B	555	556	719	0	0	0	719	3	1	2
15C	556	EX 302	10	0	10	0	0	1	1	0
15D	556	557	2000	0	0	0	2000	3	1	2
15E	557	EX 306	23	0	23	0	0	1	1	0
15F	557	558	2409	221	0	0	2630	3	1	2
15G	558	EX 311	13	0	13	0	0	1	1	0
15H	558	558.1	2215	511	0	0	2726	3	1	2

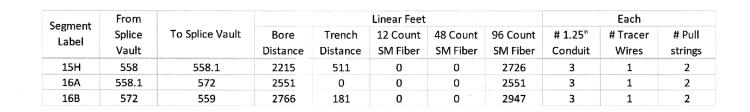


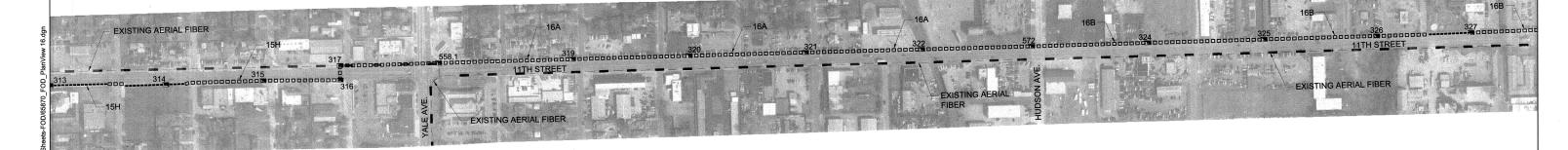


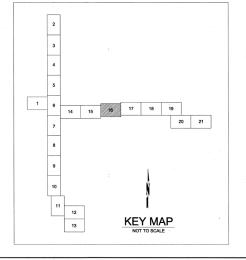




				SCALE: 1" = 200'							
					Pl	_AN	SHE	ET			
	**************************************	11111			CITY OF TULSA F	ROJECT	NUMBER: 2	2035X001Z PHASE 1			
	A COLOR		f	В	JILD GRANT / LIN	K FIBER	OPTIC SYST	EM IMPROVEMENTS			
	HUNTER 18692	EINEER	~	0	Tulsa A New Kind of Energy		TUI	SATRANSIT			
	OLAHOM!	ing//	1/27	715 Ki Kansa 816-47	1623 E. 6th Street Tulsa, OK 74119 918-877-6000						
. [REVISION	BY	DATE	PLAN SCALE:	DRAWN	TJW		APPROVED:			
				1" = 200'	DESIGNED	NW					
					SURVEY						
				PROFILE SCALE:	PROJ. MGR.	Re	6/22				
				HORIZONTAL:	LEAD ENGR.	(D)	6/22				
Of .				HORIZONTAL:	FIELD MGR.	-		1.1			
				VERTICAL	RECOMMENDE	HAS	8.22	Leines			
. ⊢		-			DESIGN MAN	AGER		CITY ENGINEER			
		-		FILE:	DRAV	VING:		DATE: 6/13/2022			
				ATLAS PAGE NO:				SHEET 23 OF 99 SHEETS			









LEGEND PROPOSED PULL BOX/SPLICE VAULT EXISTING PULL BOX PROPOSED BORED UNDERGROUND FIBER PROPOSED TRENCHED UNDERGROUND FIBER

EXISTING AERIAL FIBER EXISTING UNDERGROUND FIBER

PAUD PAUD P	La de	5/27	7
REVISION	BY	DATE	PLAN SCALE

SCALE:	1" = 200'	

PLAN SHEET CITY OF TULSA PROJECT NUMBER: 2035X001Z PHASE 1

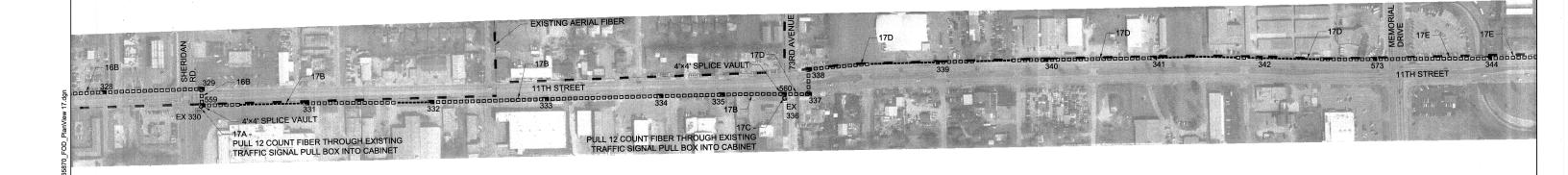


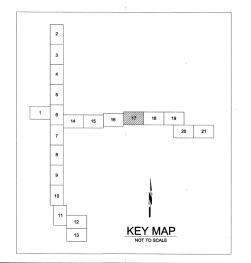


REVISION	BY	DATE	PLAN SCALE:	DRAWN	TJW		APPRO
			1" = 200'	DESIGNED	NW	t .	
			1	SURVEY		,	1
			PROFILE SCALE:	PROJ. MGR.	PF	9/22	
			HORIZONTAL:	LEAD ENGR.	00	6/22	
			TIORIZONTAL.	FIELD MGR.	274	7/22	
			VERTICAL	RECOMMEND		R. 21	1/6
				DESIGN MAN	AGER		CITY EN
			EU E.	DDA	MINIO.		DATE: 4

SHEET 24 OF 99 SHEETS

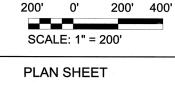
Segment	From					Each				
Label	Splice Vault	To Splice Vault	Bore Distance	Trench Distance	12 Count SM Fiber	48 Count SM Fiber	96 Count SM Fiber	# 1.25" Conduit	# Tracer Wires	# Pull strings
16B	572	559	2766	181	0	0	2947	3	1	2
17A	559	EX 330	28	0	28	0	0	1	1	0
17B	559	560	2101	437	0	0	2538	3	1	2
17C	560	EX 336	26	0	26	0	0	1	1	0
17D	560	573	1565	1124	0	0	2689	3	1	2
17E	573	574	2502	0	0	0	2502	3	1	2





LEGEND PROPOSED PULL BOX/SPLICE VAULT EXISTING PULL BOX PROPOSED BORED UNDERGROUND FIBER PROPOSED TRENCHED UNDERGROUND FIBER EXISTING AERIAL FIBER EXISTING UNDERGROUND FIBER







BUILD GRAINT / LINK FIBER	COPILCSTSTEMIN	IPROVEMENTS
Tulsa A New Kind of Energy.	TULSA	TRANSIT
HNTB 715 Kirk Dr. Kansas City, MO 64105	BKD	1623 E. 6th Stree Tulsa, OK 74119 918-877-6000

		1						
	REVISION	BY	DATE	PLAN SCALE:	DRAWN	TJW		APPROVED:
1.				1" = 200'	DESIGNED	NW		
					SURVEY			
				PROFILE SCALE:	PROJ. MGR.	pe	6/22	
				HORIZONTAL:	LEAD ENGR.	00	6/22.	
					FIELD MGR.	2m	7/22	1 1
				VERTICAL	RECOMMENDE	Ď.	8. ZZ	/alded
					DESIGN MANA	AGER	0.00	CITY ENGINEER
				FILE:	DRAW	/ING:		DATE: 6/13/2022
				ATLAS PAGE NO:				SHEET 25 OF 99 SHEETS

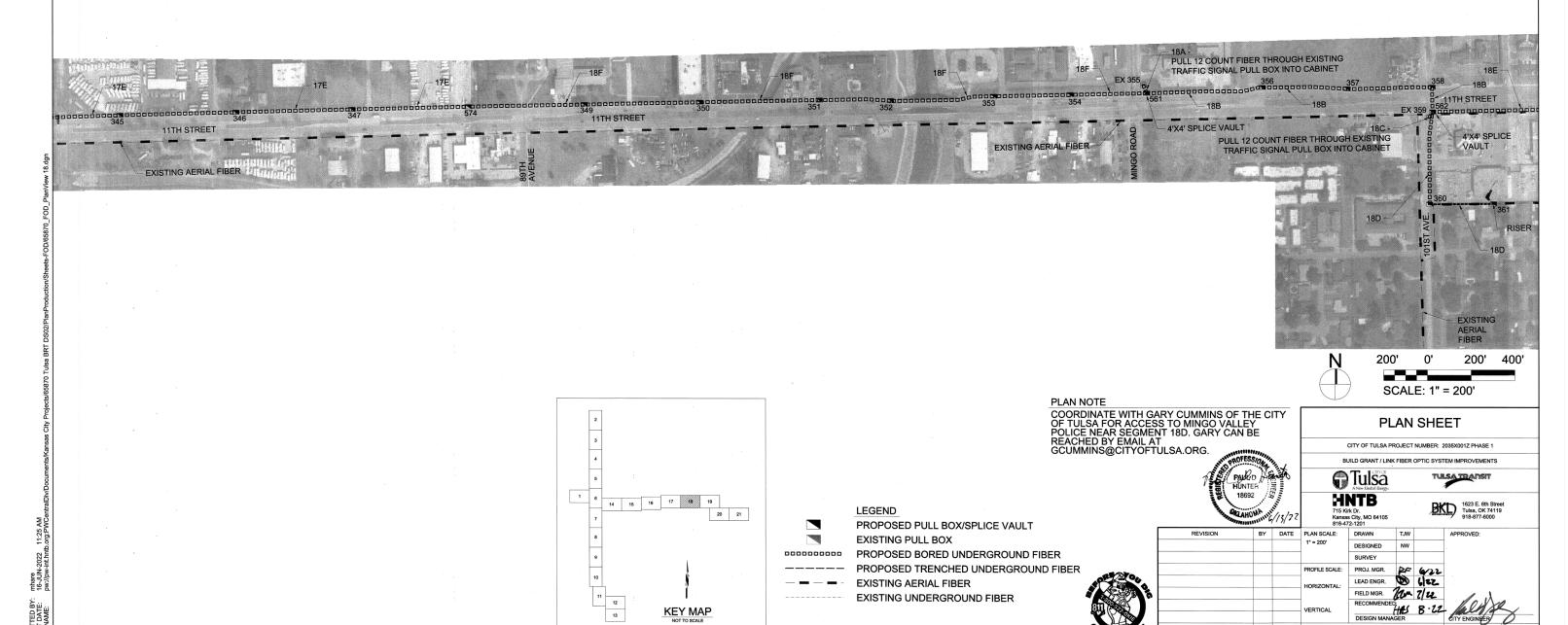
Segment	From				Each					
Label	Splice Vault	To Splice Vault	Bore Distance	Trench Distance	12 Count SM Fiber	48 Count SM Fiber	96 Count SM Fiber	# 1.25" Conduit	# Tracer	# Pull strings
17E	573	574	2502	0	0	0	2502	3	1	2
18A	561	EX 355	38	0	38	0	0	1	1	0
18B	561	562	1338	0	0	0	1338	3	1	2
18C	562	EX 359	29	0	29	0	0	1	1	0
18D	562	361	400	274	0	674	0	1	1	0
18E	562	563	950	0	0	0	950	3	1	2
18F	574	561	2925	0	0	0	2925	3	1	2

FILE:

ATLAS PAGE NO

DRAWING:

DATE: 6/13/2022



Segment	From	om	•		Each					
Label	Splice Vault	To Splice Vault	Bore Distance	Trench Distance	12 Count SM Fiber	48 Count SM Fiber	96 Count SM Fiber	# 1.25" Conduit	# Tracer Wires	# Pull strings
18E	562	563	950	0	0	0	950	3	1	2
19A	563	EX 363	13	0	13	0	0	1	1	0
19B	563	564	632	0	0	0.	632	3	1	2
19C	564	EX 365	10	0	10	0	0	1	1	0
19D	564	565	2297	0	0	0	2297	3	1	2
19E	565	EX 371	127	0	127	0	0	1	1	0
19F	565	575	2000	0	0	0	2000	3	1	2
19G	575	566	1640	0	0	0	1640	3	1	. 2





LEGEND

PROPOSED PULL BOX/SPLICE VAULT

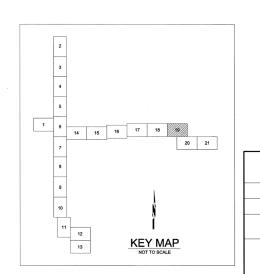
EXISTING PULL BOX

PROPOSED BORED UNDERGROUND FIBER

PROPOSED TRENCHED UNDERGROUND FIBER

EXISTING AERIAL FIBER

EXISTING UNDERGROUND FIBER





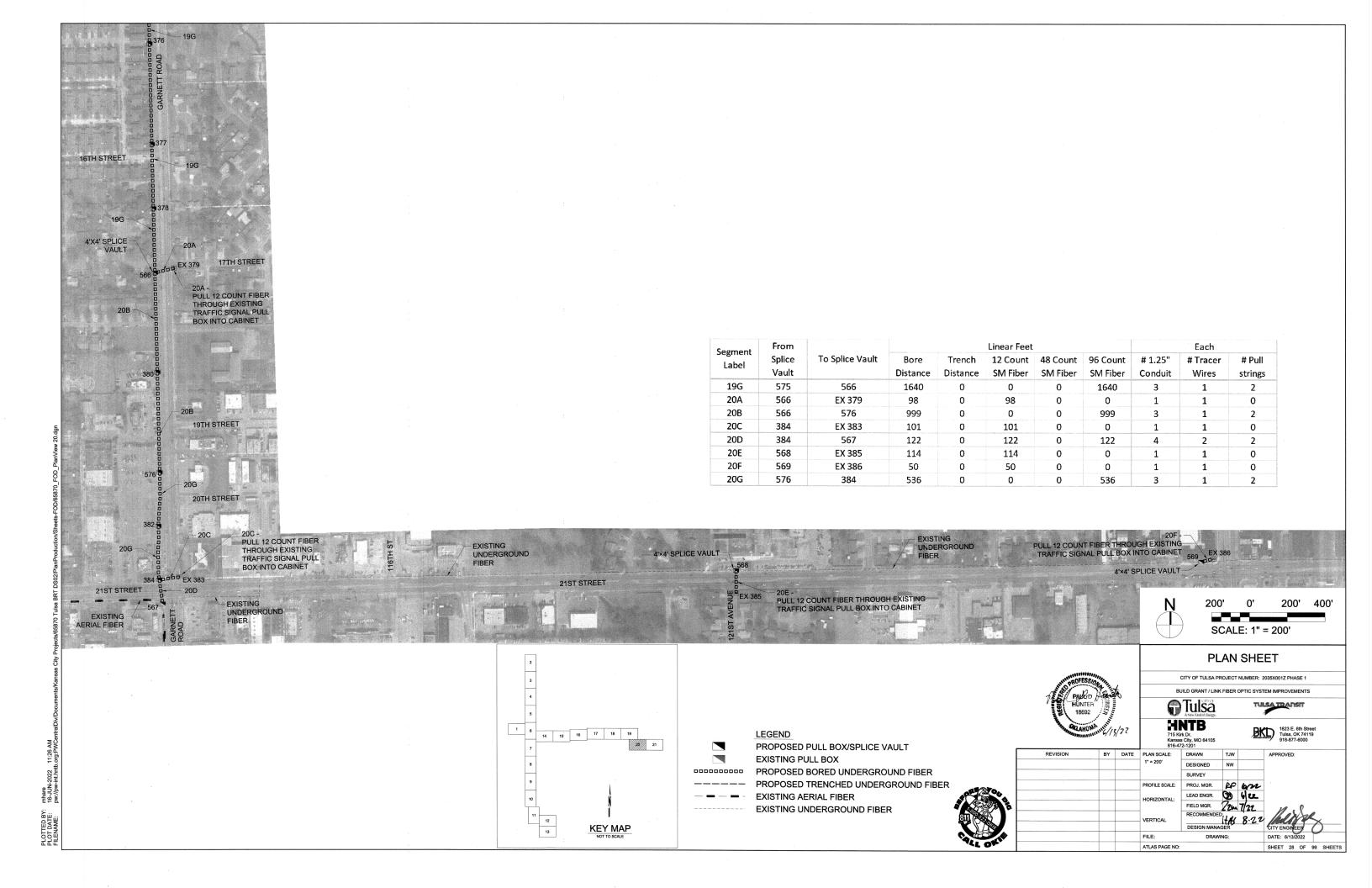
200' 0' 200' 400' SCALE: 1" = 200'

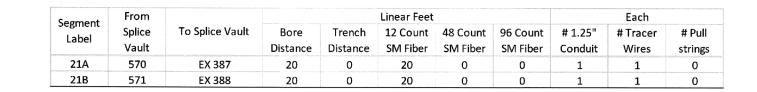
PLAN SHEET CITY OF TULSA PROJECT NUMBER: 2035X001Z PHASE 1

1623 E. 6th Street Tulsa, OK 74119 918-877-6000

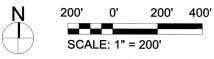
	REVISION	BY	DATE	PLAN SCALE:	DRAWN	TJW		APPROV	ED:		
				1" = 200'	DESIGNED	NW					
					SURVEY						
_		,		PROFILE SCALE:	PROJ. MGR.	RF	6/22				
20,				HORIZONTAL:	LEAD ENGR.	(2)	6/2				
1 26				TIONIZONTAL.	FIELD MGR.	Pru	7/22				
				VERTICAL	RECOMMENDE	D; _	8.22				
				VERTIONE	DESIGN MANA	AGER	6.20	CITY EN	SINEER		
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				ATLAS PAGE NO:				SHEET	27 OF	99	SHEETS

PLOTTED BY: PLOT DATE: FILENAME:

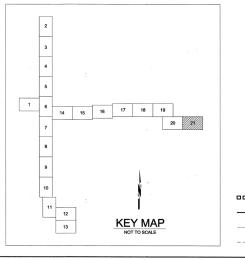








PLAN SHEET CITY OF TULSA PROJECT NUMBER: 2035X001Z PHASE 1



LEGEND PROPOSED PULL BOX/SPLICE VAULT EXISTING PULL BOX PROPOSED BORED UNDERGROUND FIBER PROPOSED TRENCHED UNDERGROUND FIBER - - EXISTING AERIAL FIBER

EXISTING UNDERGROUND FIBER



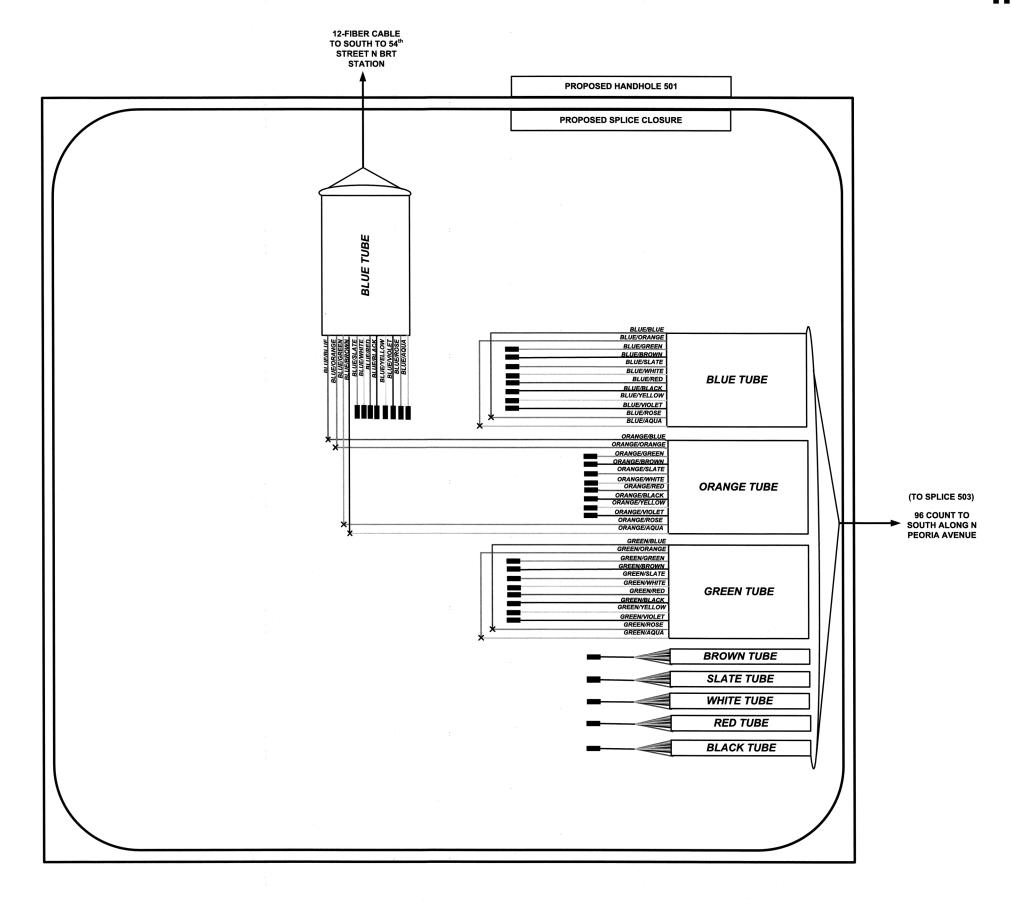
	A THURSDAY	715 Kirk Dr. Kansas City, MO 64105 816-472-1201				Tulsa, OK 74119 918-877-6000					
	REVISION	BY	DATE	PLAN SCALE:	DRAWN	TJW		APPROVED:			
				1" = 200'	DESIGNED	NW					
					SURVEY						
				PROFILE SCALE:	PROJ. MGR.	RF	6/22				
Dic				HORIZONTAL:	LEAD ENGR.	(b)	6k2.				
					FIELD MGR.	22m	7/2	10	0		
				VERTICAL	RECOMMENDE		8.22	16.0000			
					DESIGN MANA	GER	0.22	CITY ENGINEER			
(FILE:	DRAWING:			DATE: 6/13/	2022		
				ATLAS PAGE NO:		SHEET 29	OF	99 S	HEETS		

FLOUTER 18692	INER INTER	3/27	Kansa	TUISA TRANSIT And Last of Barge. HNTB 716 Kirk Dr. Kanasa City, MC 64105 816-472-1201						
REVISION	BY	DATE	PLAN SCALE: 1" = 200'	DRAWN	TJW		APPROVED:			
			1 - 200	DESIGNED	NW					
				SURVEY						
			PROFILE SCALE:	PROJ. MGR.	RF	6/22		*		
			HORIZONTAL:	LEAD ENGR.	\mathcal{D}	6k2.				
				FIELD MGR.	20m	7/2	100			
			VERTICAL	RECOMMENDE	HAK	8.22	16.000			
				DESIGN MANAGER			CITY ENGINEER)		
			FILE:	DRAW	/ING:		DATE: 6/13/2022			

Corridor A.vsd

June 13, 2022

30



KEY

E238.2D

DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME **ARRIVAL SIGN**



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE

EXISTING COAX CABLE

EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

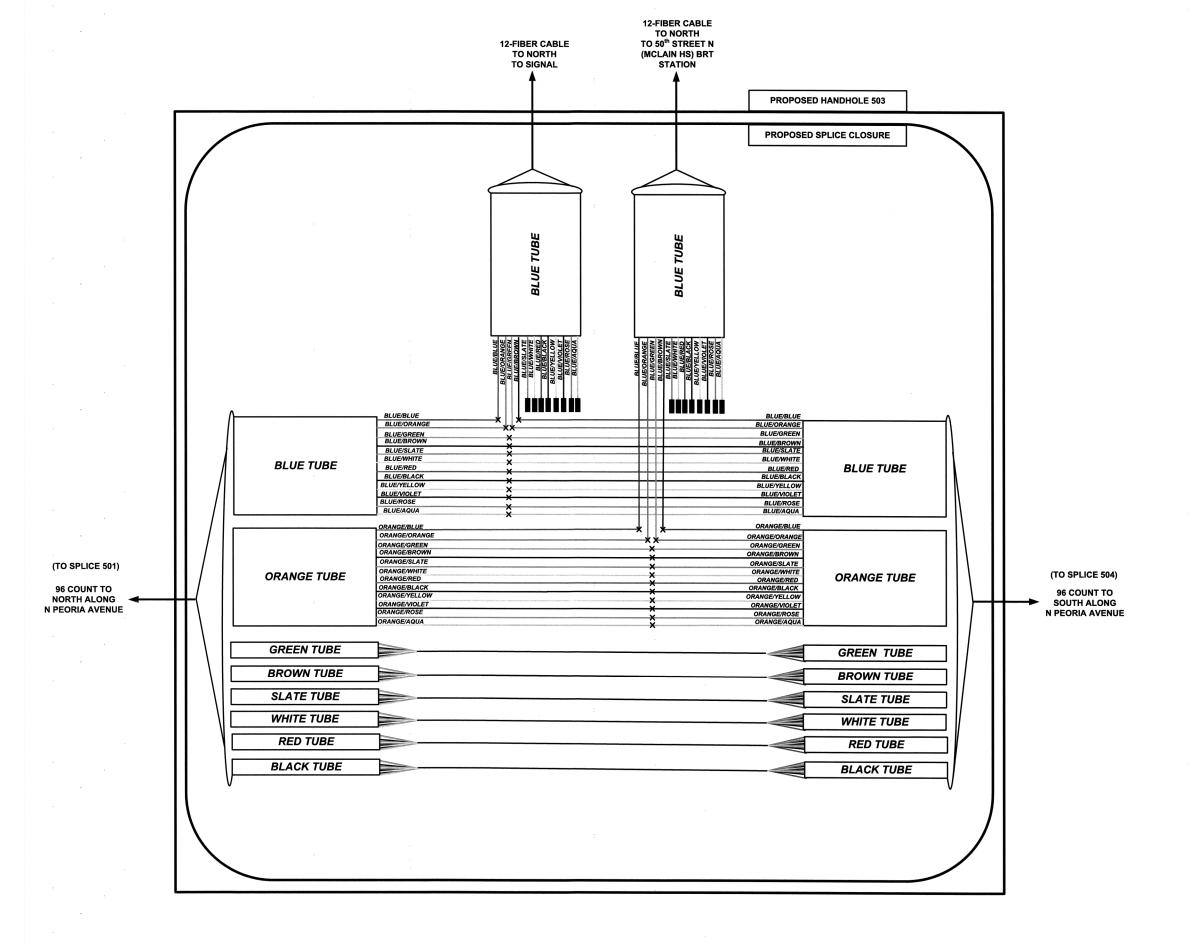
NOTES

- 1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB.
- 2. NO INTERMEDIATE SPLICES ALLOWED.
- 3. ALL SPLICES SHALL BE FUSION SPLICES.
- 4. WHEN SPLICING UNDERGROUND, ONLY TUBES CONTAINING FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER **TUBES SHALL RUN UN-CUT BETWEEN** OTHER SPLICES.





FIBER SPLICING AND



ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET NO.
Peoria Avenue Corridor A.vsd June 13, 2022 31

KEY

E238.2D

DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL

PATCH THROUGH



FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL



19490

BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



i de la companya de l



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

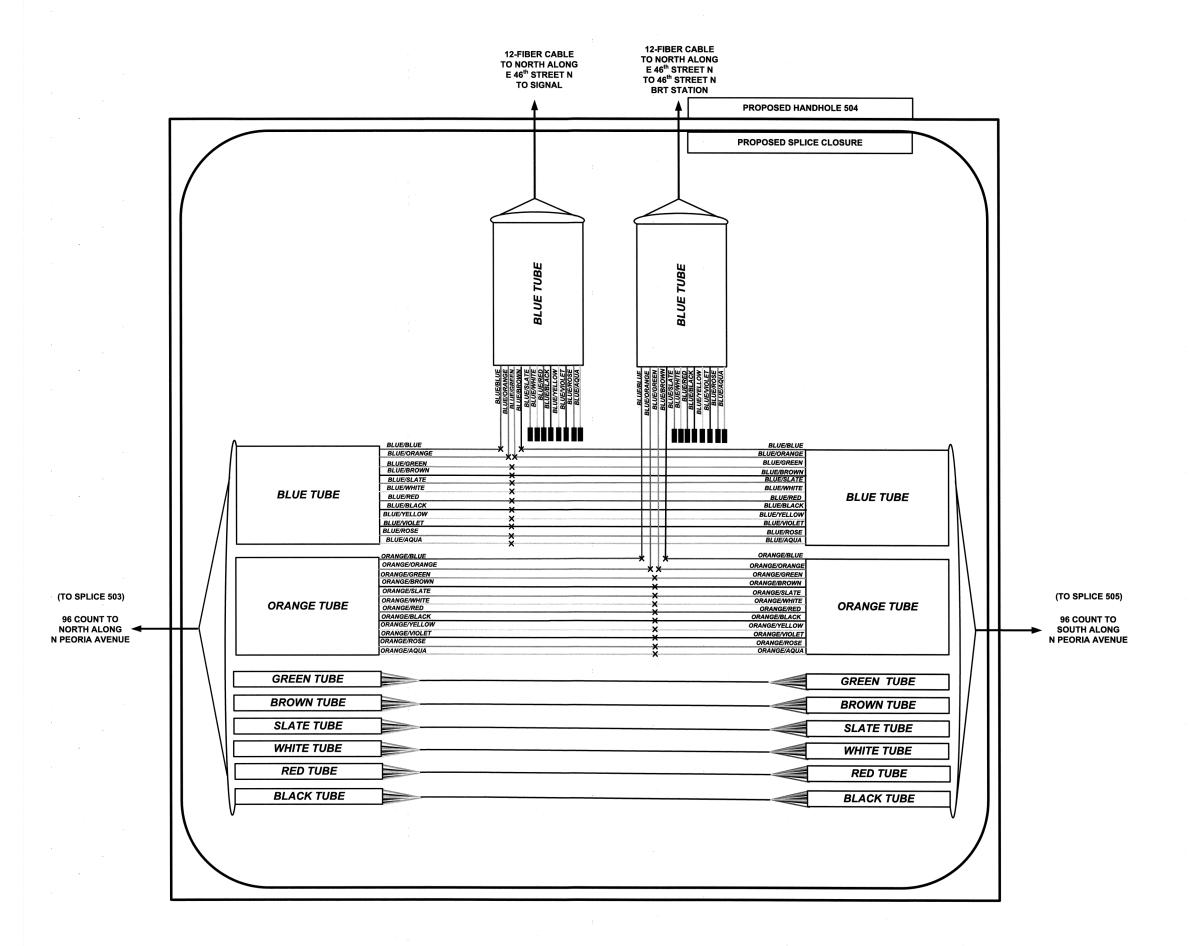
NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

NOTE

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ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET NO.
Peoria Avenue Corridor A.vsd June 13, 2022 32

KEY

E238.2D

DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN

EXISTING REAL TIME ARRIVAL

RTA



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

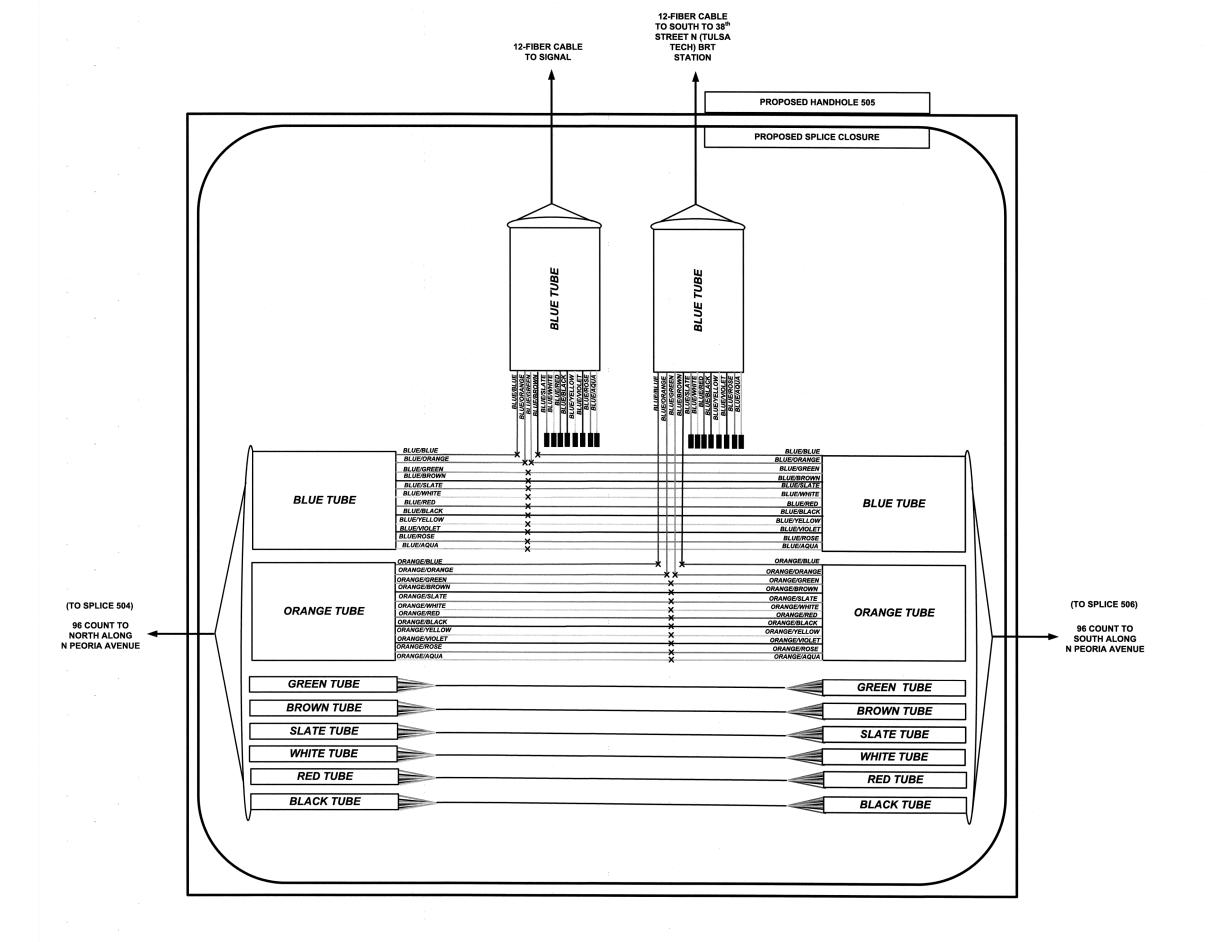
NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

NOTE

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- ALLOWED.
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- 4. WHEN SPLICING UNDERGROUND, ONLY TUBES CONTAINING FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN OTHER SPLICES.







KEY

Corridor A.vsd

June 13, 2022

33

E238.2D

DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED

PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

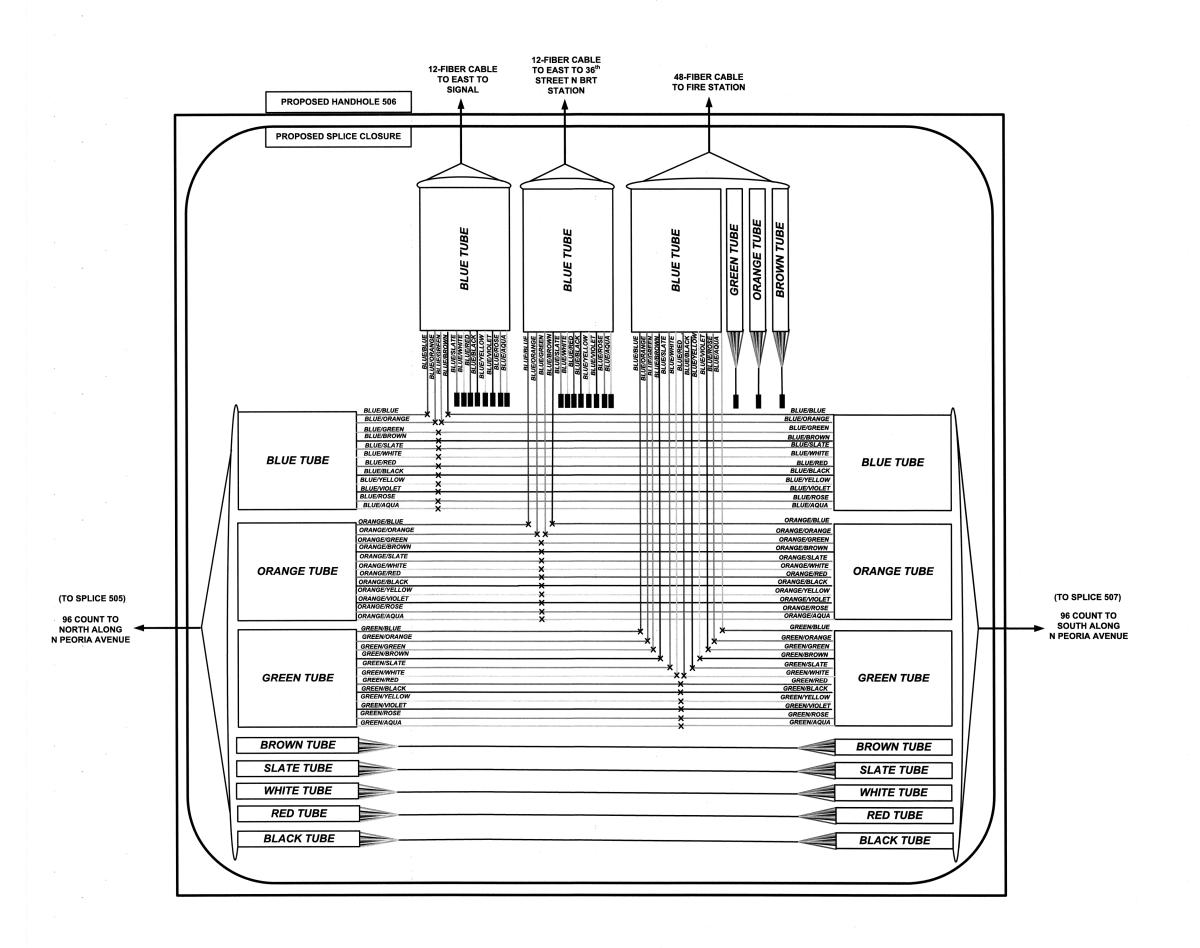
NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

NOTES

- MAXIMUM SPLICE LOSS SHALL BE 0.1 dB.
 NO INTERMEDIATE SPLICES
- ALLOWED.
- 3. ALL SPLICES SHALL BE FUSION SPLICES.
- 4. WHEN SPLICING UNDERGROUND, ONLY TUBES CONTAINING FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN OTHER SPLICES.







KEY DEVICE IDENTIFIER CCTV **CCTV CAMERA EXISTING** CCTV **CCTV CAMERA** REAL TIME RTA **ARRIVAL SIGN EXISTING REAL** TIME ARRIVAL **RTA** PATCH THROUGH FIBER OPTIC JUMPER **EQUIPMENT CONNECTION** 10.0000 FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL COMP. BARE FIBER LEFT **COILED IN SPLICE TRAY FUSION SPLICE** PATCH PANEL MODULE

VISIO FILENAME

Corridor A.vsd

LAST UPDATE DATE:

June 13, 2022

SHEET NO.

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB. 2. NO INTERMEDIATE SPLICES

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

- ALLOWED.
- 3. ALL SPLICES SHALL BE FUSION SPLICES. 4. WHEN SPLICING UNDERGROUND, ONLY TUBES CONTAINING FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER **TUBES SHALL RUN UN-CUT BETWEEN** OTHER SPLICES.





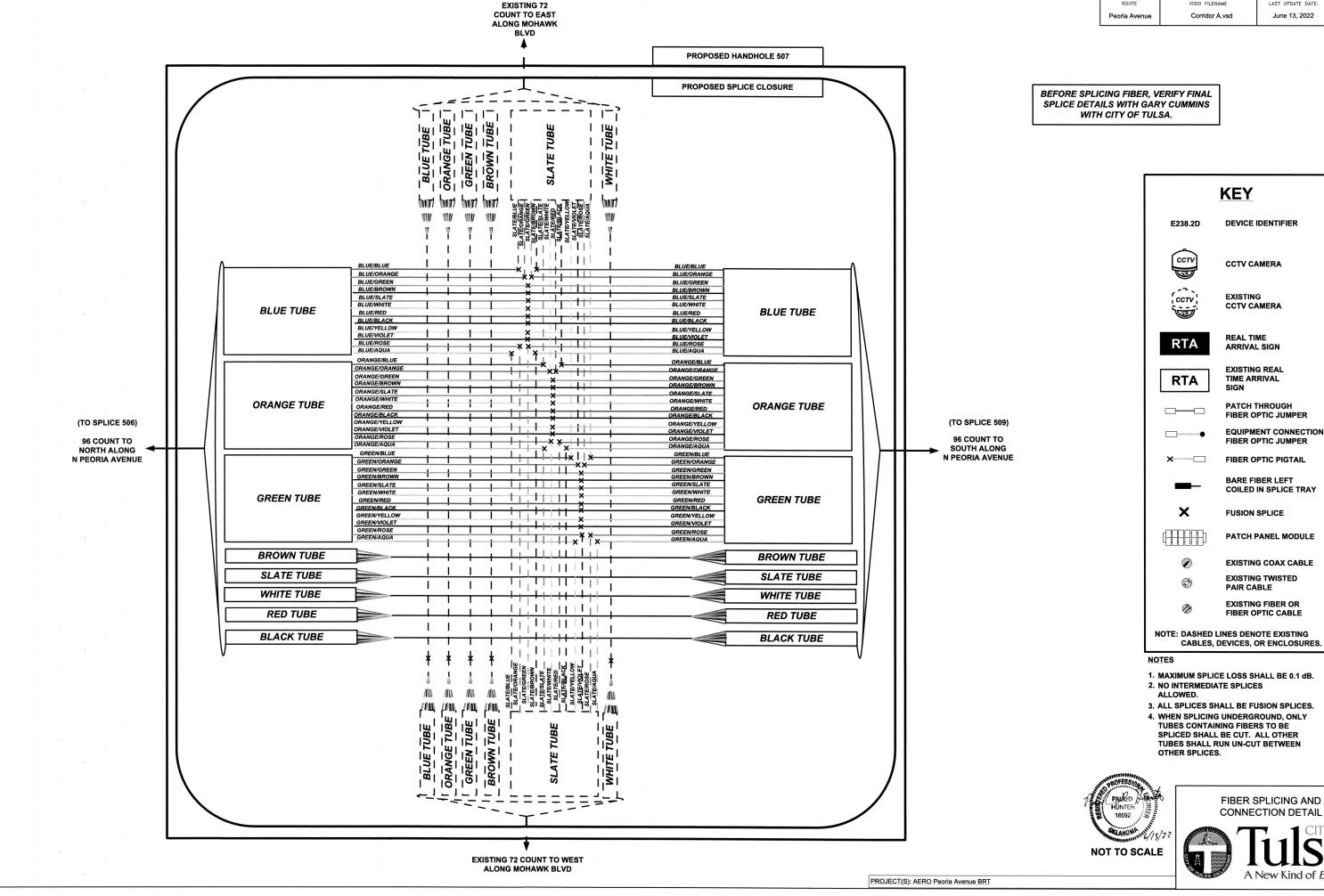
EXISTING COAX CABLE

EXISTING TWISTED

EXISTING FIBER OR

FIBER OPTIC CABLE

PAIR CABLE



KEY

DEVICE IDENTIFIER

CCTV CAMERA

June 13, 2022

EXISTING **CCTV CAMERA**

REAL TIME **ARRIVAL SIGN**

EXISTING REAL TIME ARRIVAL

FIBER OPTIC JUMPER

FIBER OPTIC JUMPER

BARE FIBER LEFT

COILED IN SPLICE TRAY

FUSION SPLICE

PATCH PANEL MODULE

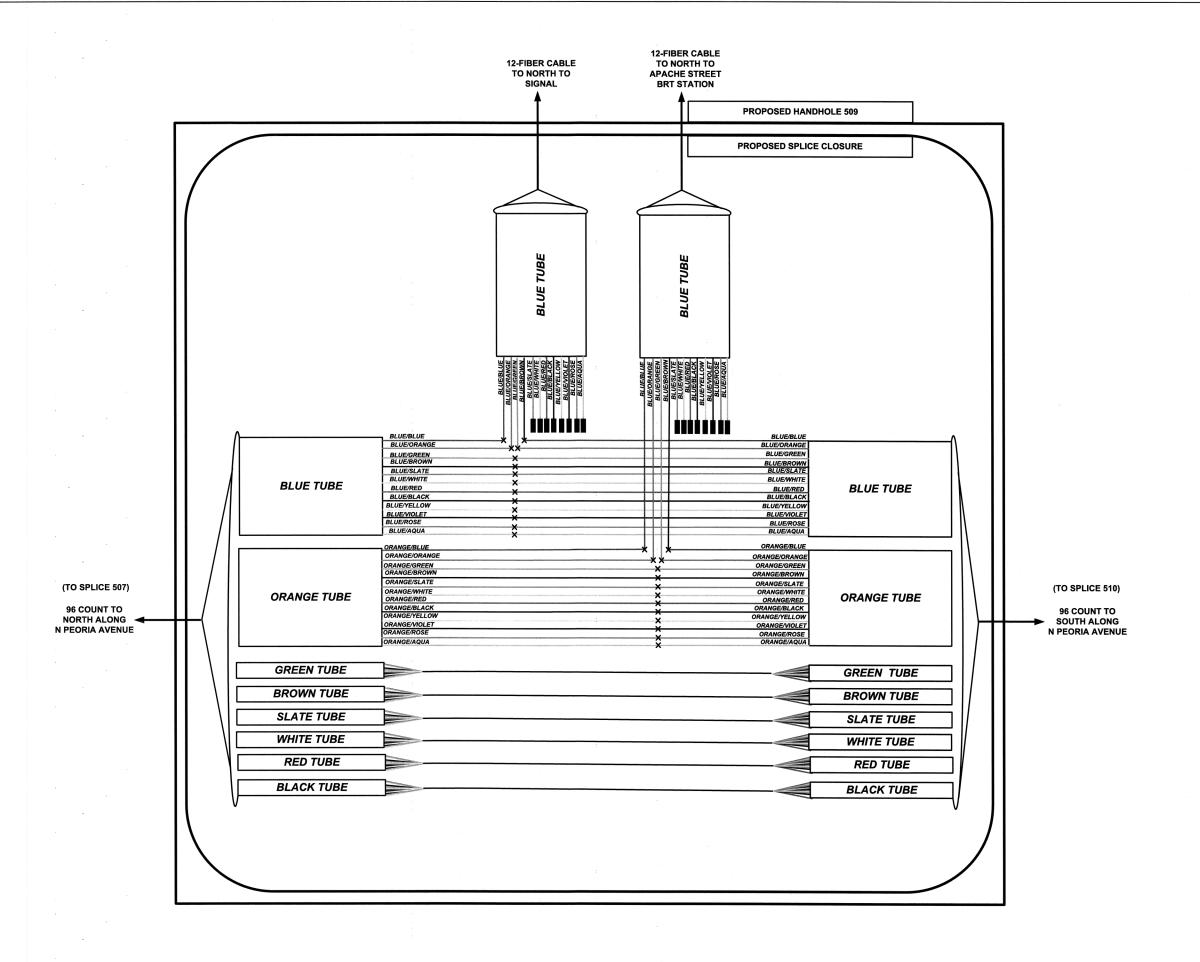
EXISTING COAX CABLE

EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

- TUBES CONTAINING FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER **TUBES SHALL RUN UN-CUT BETWEEN**





ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET NO
Peoria Avenue Corridor A.vsd June 13, 2022 36

KEY

E238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR

FIBER OPTIC CABLE

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

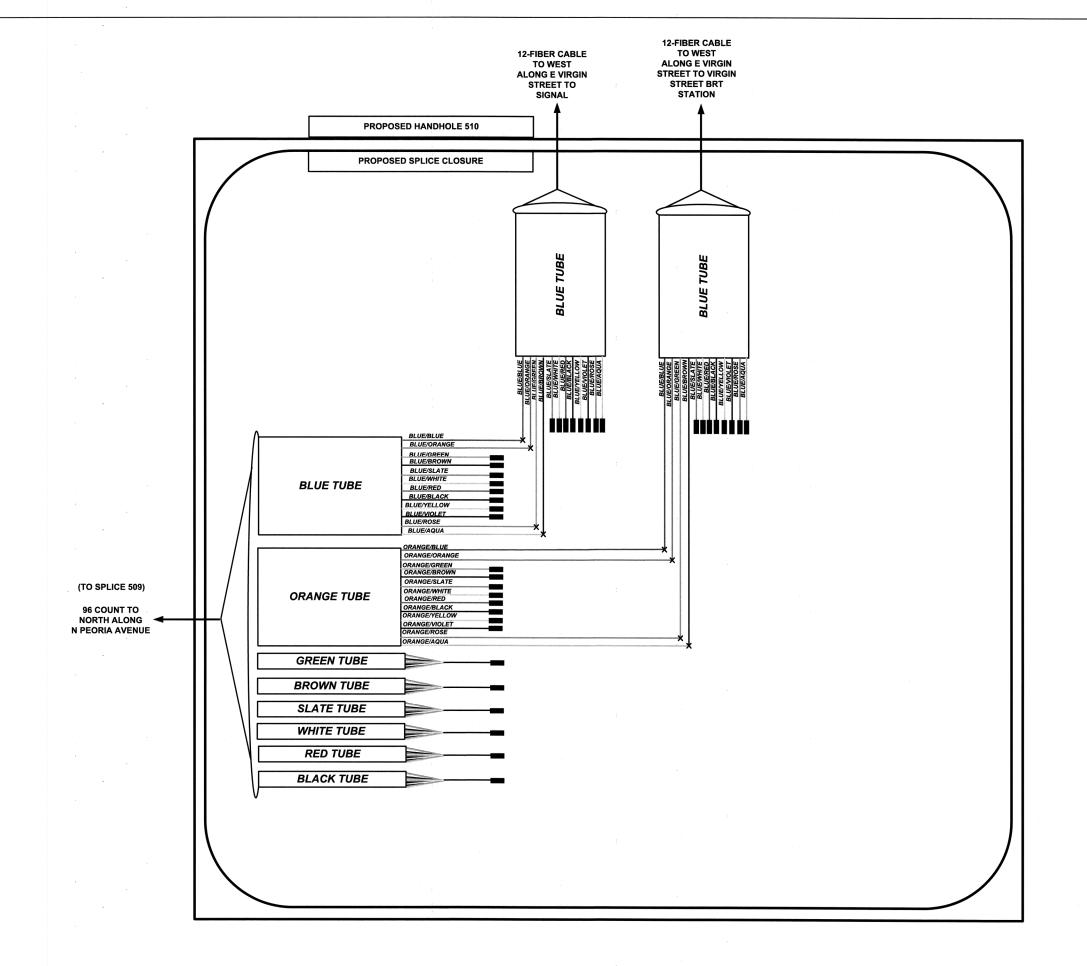
NOT

- 1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB. 2. NO INTERMEDIATE SPLICES
- ALLOWED.

 3. ALL SPLICES SHALL BE FUSION SPLICES.
- 4. WHEN SPLICING UNDERGROUND, ONLY TUBES CONTAINING FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN OTHER SPLICES.







ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET NO.

Peoria Avenue Corridor A.vsd June 13, 2022 37

KEY

E238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED

PAIR CABLE

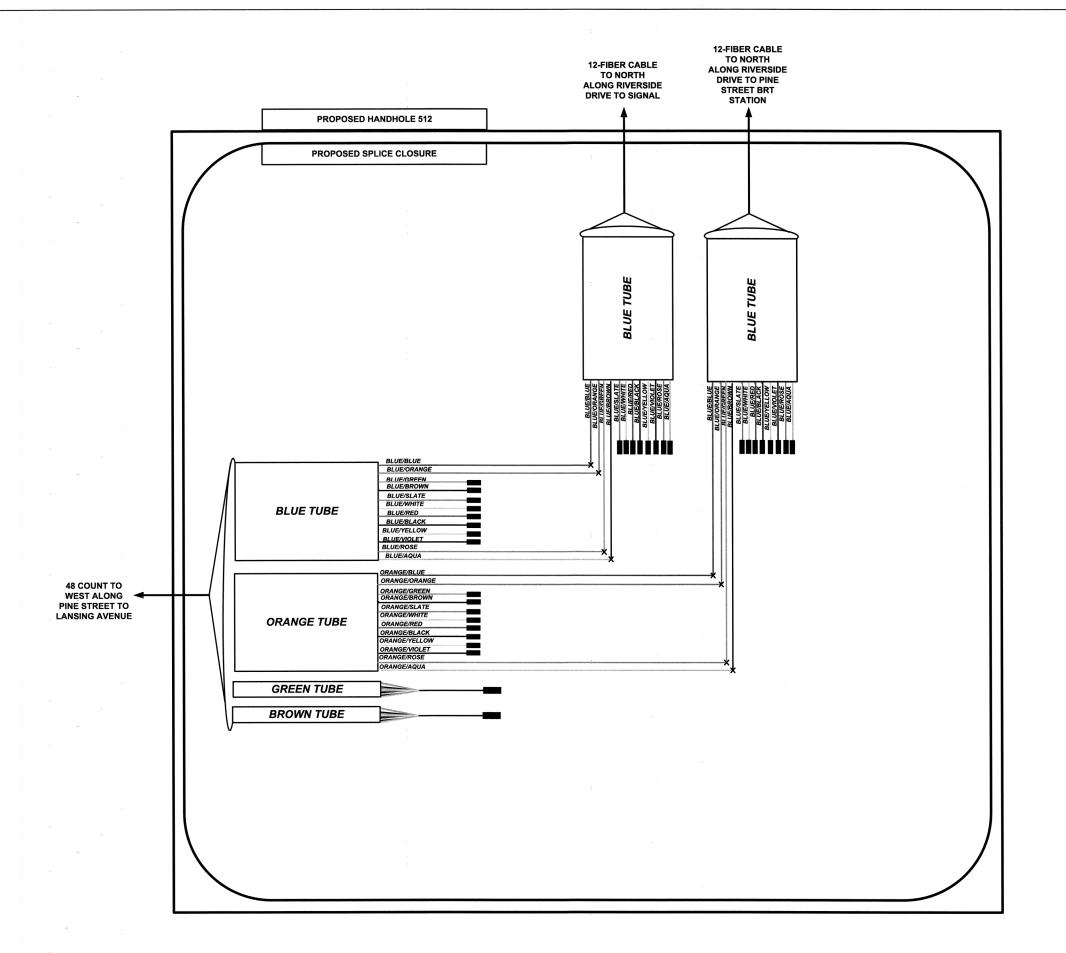
EXISTING FIBER OR FIBER OPTIC CABLE

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

- MAXIMUM SPLICE LOSS SHALL BE 0.1 dB.
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ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET NO.
Peoria Avenue Corridor A.vsd June 13, 2022 38

KEY

E238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY





FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED

PAIR CABLE
EXISTING FIBER OR

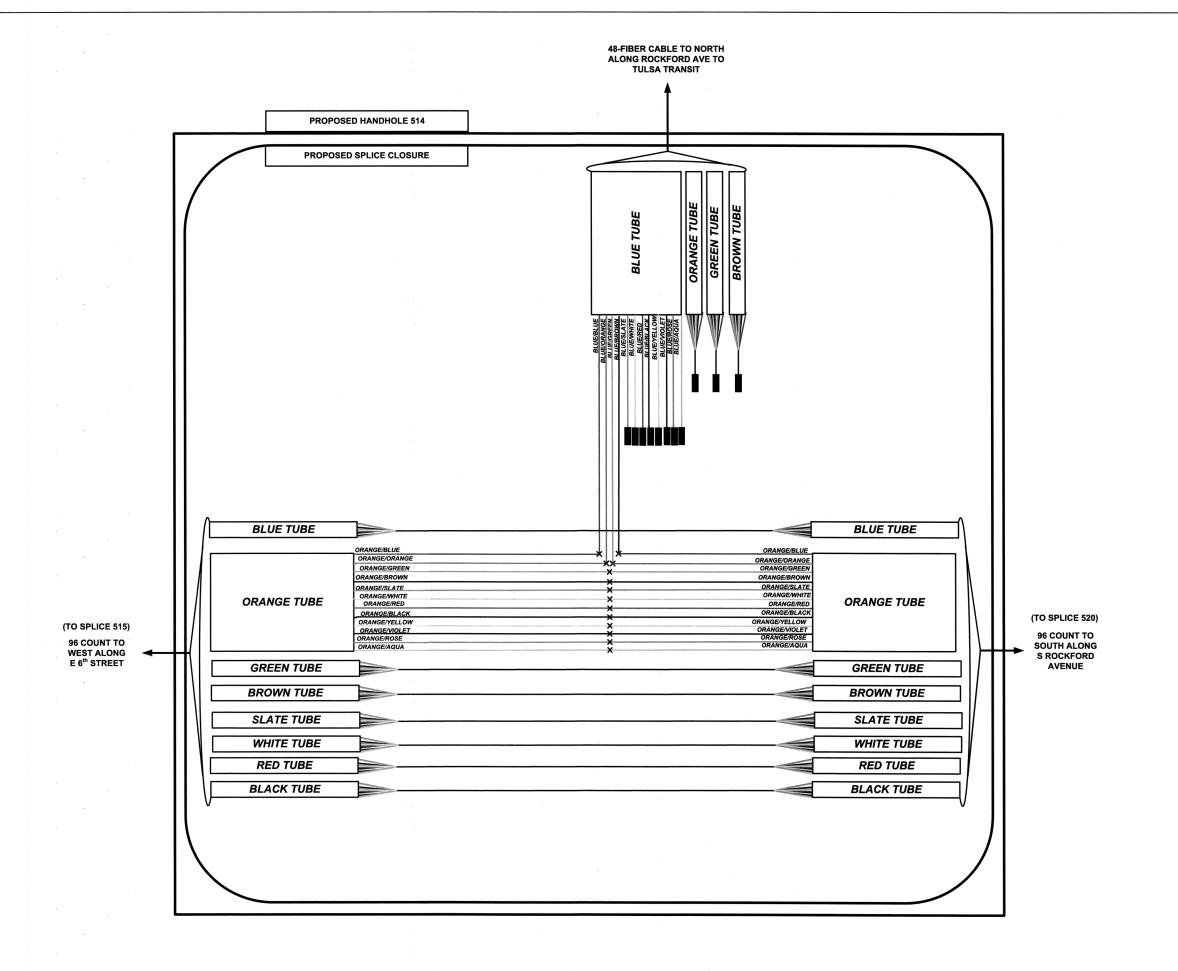
FIBER OPTIC CABLE

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

- 1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB. 2. NO INTERMEDIATE SPLICES
- 2. NO INTERMEDIATE SPLICES ALLOWED.
- ALL SPLICES SHALL BE FUSION SPLICES.
 WHEN SPLICING UNDERGROUND, ONLY
 TUBES CONTAINING FIBERS TO BE
 SPLICED SHALL BE CUT. ALL OTHER
 TUBES SHALL RUN UN-CUT BETWEEN
 OTHER SPLICES.







VISIO FILENAME

Corridor B.vsd

Peoria Avenue

and E 11th Stree

LAST UPDATE DATE:

June 13, 2022

SHEET NO.

39

8.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL SIGN

PATCH THROUGH
FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL
BARE FIBER LEFT



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED

CABLES, DEVICES, OR ENCLOSURES.

PAIR CABLE
EXISTING FIBER OR

FIBER OPTIC CABLE

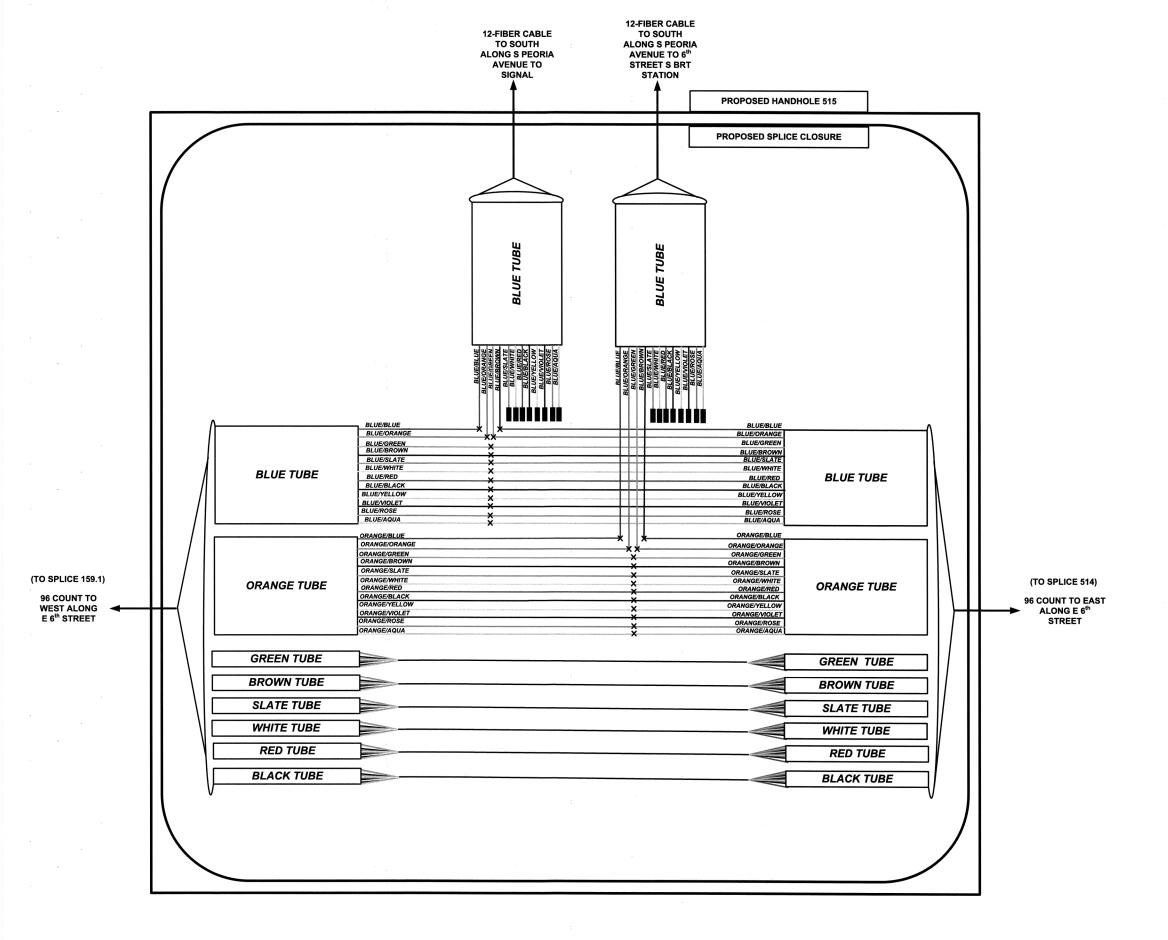
NOTE: DASHED LINES DENOTE EXISTING

NOTE

- MAXIMUM SPLICE LOSS SHALL BE 0.1 dB.
 NO INTERMEDIATE SPLICES
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KEY DEVICE IDENTIFIER E238.2D CCTV CCTV CAMERA EXISTING ς στν ¦ **CCTV CAMERA** REAL TIME **RTA** ARRIVAL SIGN **EXISTING REAL RTA** TIME ARRIVAL PATCH THROUGH FIBER OPTIC JUMPER **EQUIPMENT CONNECTION** FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL A SCIPLING CONTROL CONTROL BARE FIBER LEFT COILED IN SPLICE TRAY X **FUSION SPLICE** PATCH PANEL MODULE **EXISTING COAX CABLE EXISTING TWISTED** PAIR CABLE EXISTING FIBER OR FIBER OPTIC CABLE NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

LAST UPDATE DATE:

June 13, 2022

VISIO FILENAME

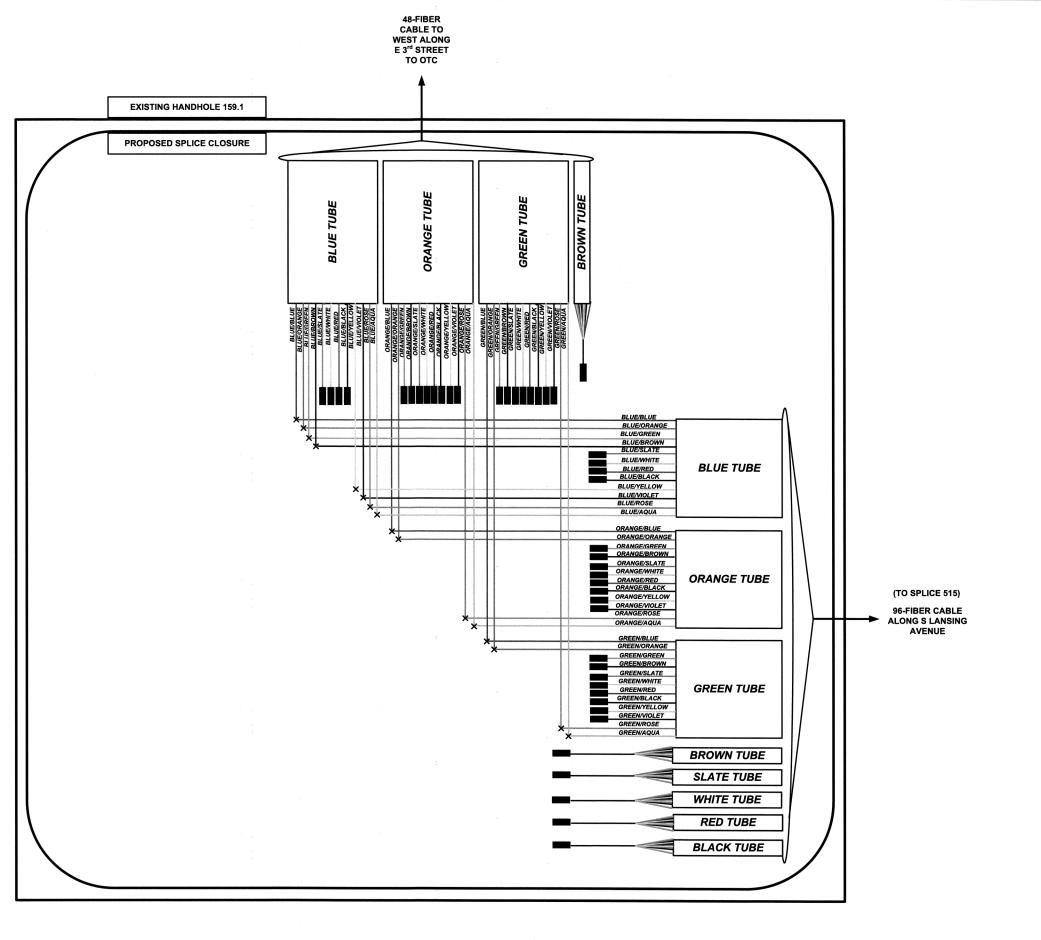
Corridor B.vsd

Peoria Avenue and E 11th Street

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VISIO FILENAME

Corridor B.vsd

June 13, 2022

Peoria Avenue and E 11th Stree

8.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED

PAIR CABLE

EXISTING FIBER OR

FIBER OPTIC CABLE

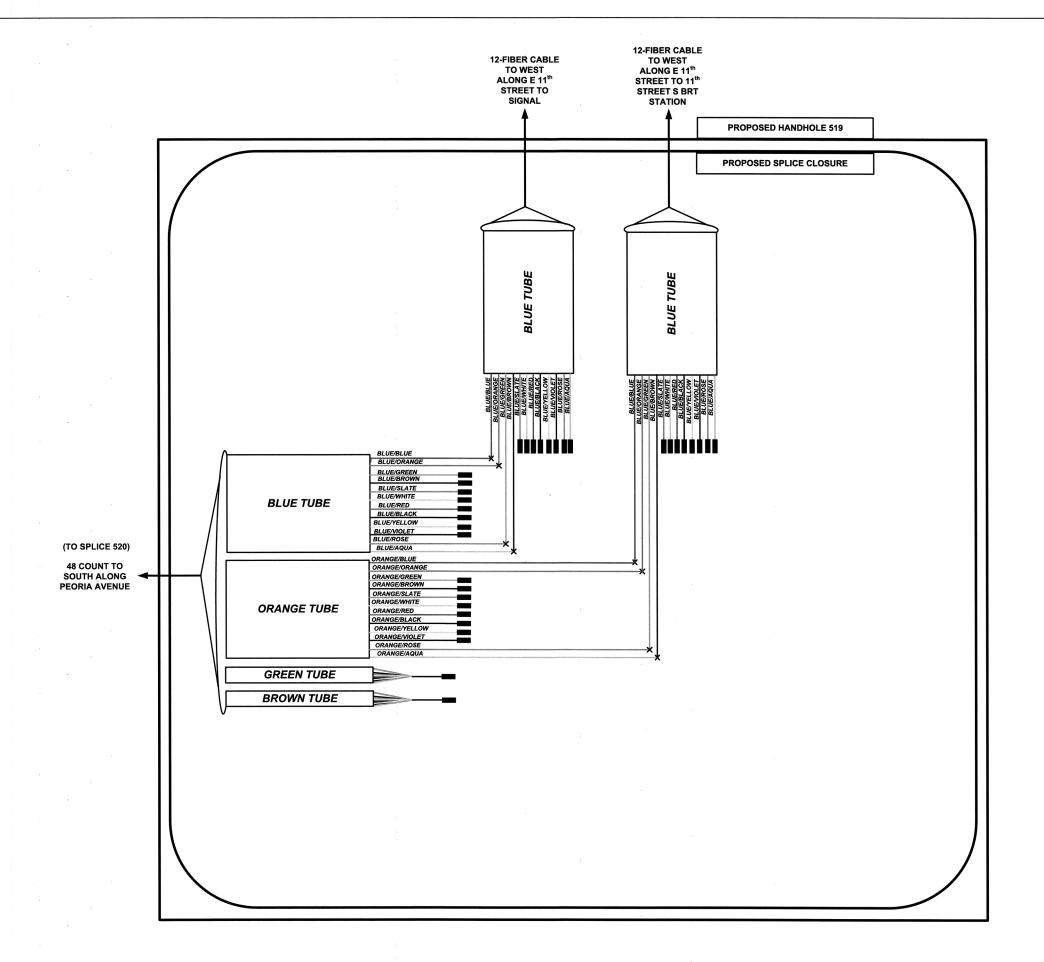
NOTE: DASHED LINES DENOTE EXISTING
CABLES, DEVICES, OR ENCLOSURES.

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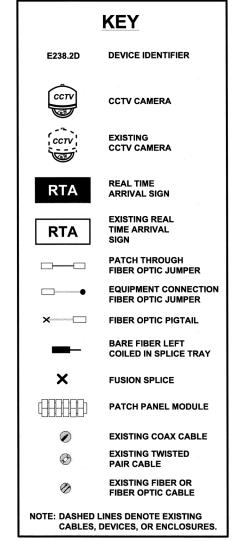
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ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET NO Peoria Avenue and E 11th Street Corridor B.vsd June 13, 2022 42



NOTES

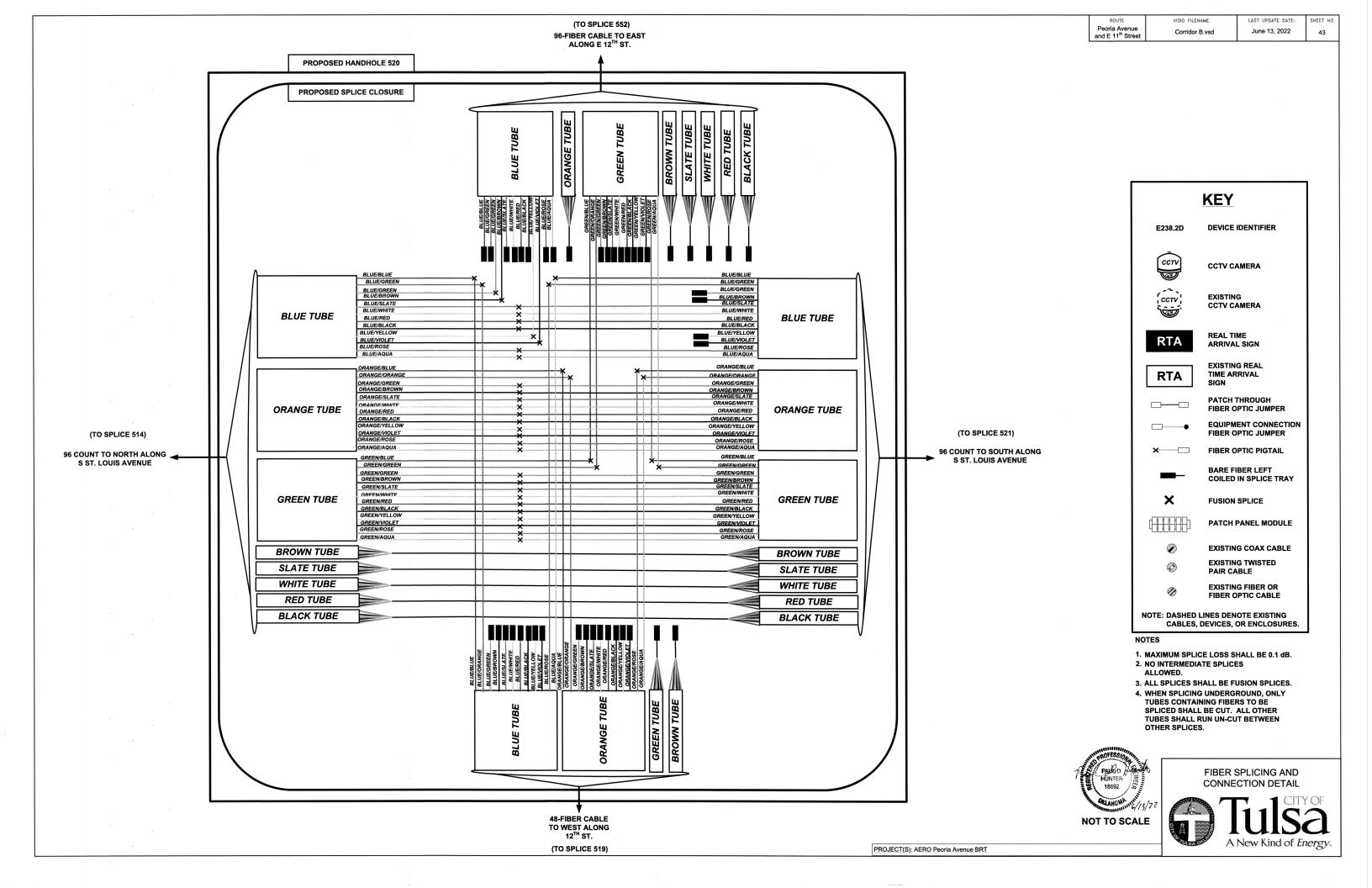
- MAXIMUM SPLICE LOSS SHALL BE 0.1 dB.
 NO INTERMEDIATE SPLICES
- ALLOWED.

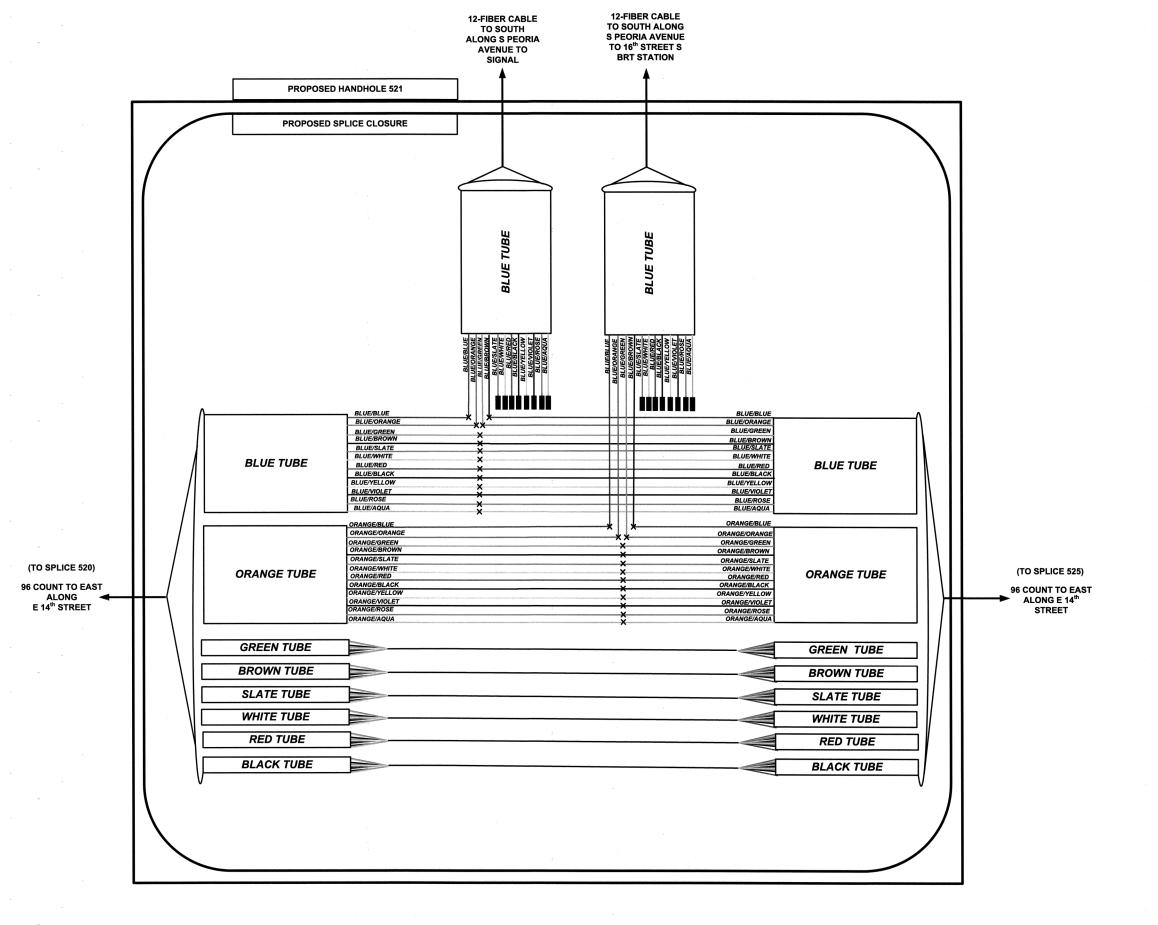
OTHER SPLICES.

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KEY DEVICE IDENTIFIER E238.2D (cctv) **CCTV CAMERA** CCTV **EXISTING CCTV CAMERA REAL TIME** RTA **ARRIVAL SIGN EXISTING REAL** TIME ARRIVAL RTA PATCH THROUGH FIBER OPTIC JUMPER **EQUIPMENT CONNECTION** FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL option BARE FIBER LEFT **COILED IN SPLICE TRAY FUSION SPLICE** PATCH PANEL MODULE **EXISTING COAX CABLE EXISTING TWISTED** PAIR CABLE **EXISTING FIBER OR** FIBER OPTIC CABLE

NOT

ROUTE Peoria Avenue

Riverside Drive E 71st Street,

E 81st Street

VISIO FILENAME

Corridor D.vsd

LAST UPDATE DATE:

June 13, 2022

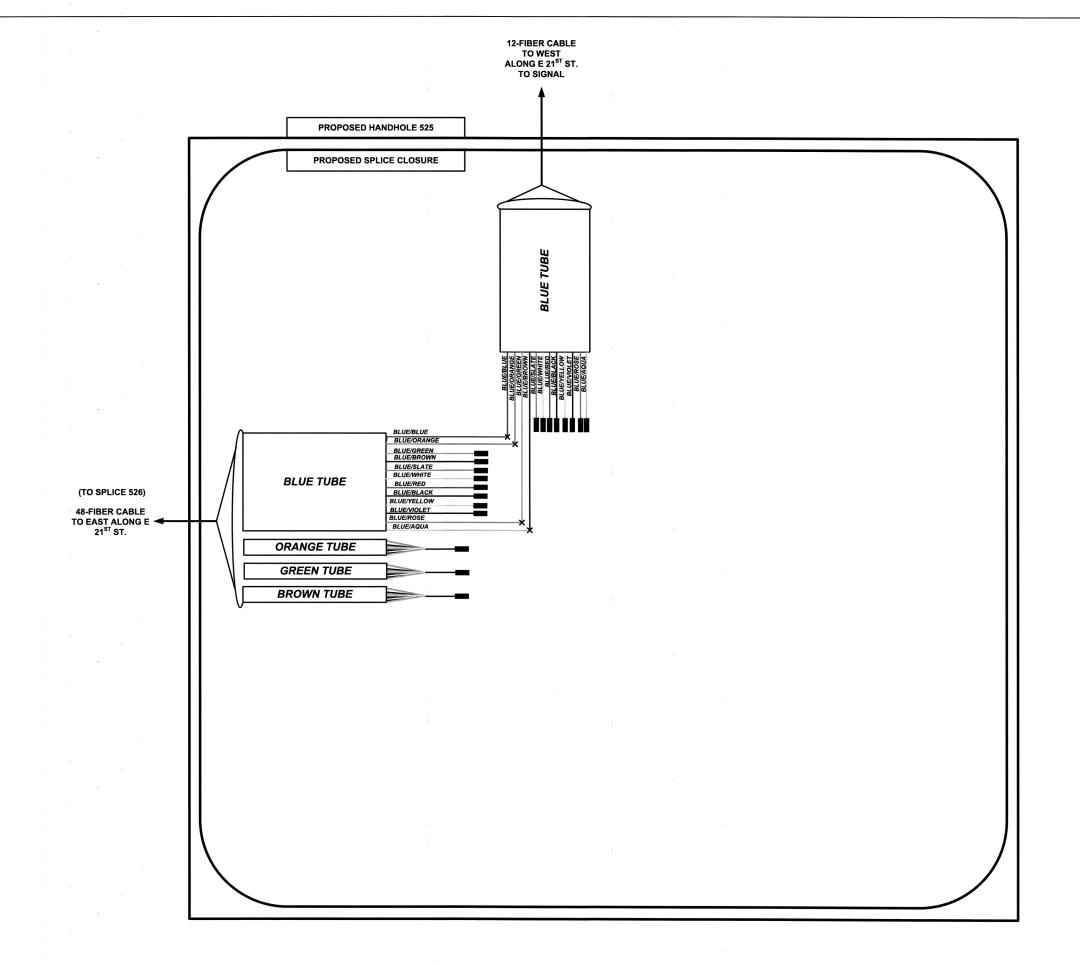
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ROUTE Peoria Avenue, Riverside Drive E 71st Street, Lewis Avenue E 81st Street

VISIO FILENAME

Corridor D.vsd

LAST UPDATE DATE: June 13, 2022

45

KEY

E238.2D

DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL **BARE FIBER LEFT**



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

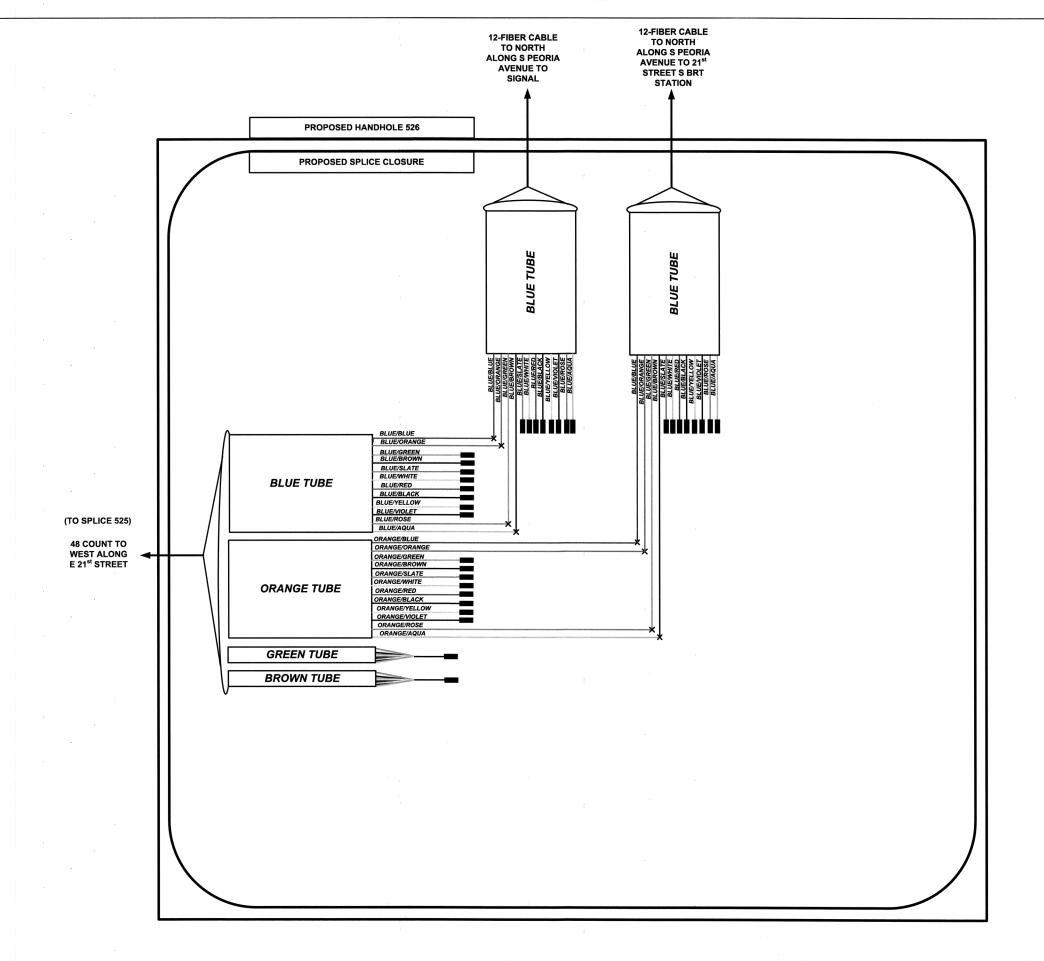
EXISTING FIBER OR FIBER OPTIC CABLE

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VISIO FILENAME

Corridor D.vsd

LAST UPDATE DATE:

June 13, 2022

Peoria Avenue, Riverside Drive, E 71st Street,

Lewis Avenue, E 81st Street

KEY

E238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA

RTA

REAL TIME ARRIVAL SIGN

RTA

EXISTING REAL TIME ARRIVAL SIGN



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



.

FUSION SPLICE



PATCH PANEL MODULE





EXISTING COAX CABLE

EXISTING TWISTED PAIR CABLE

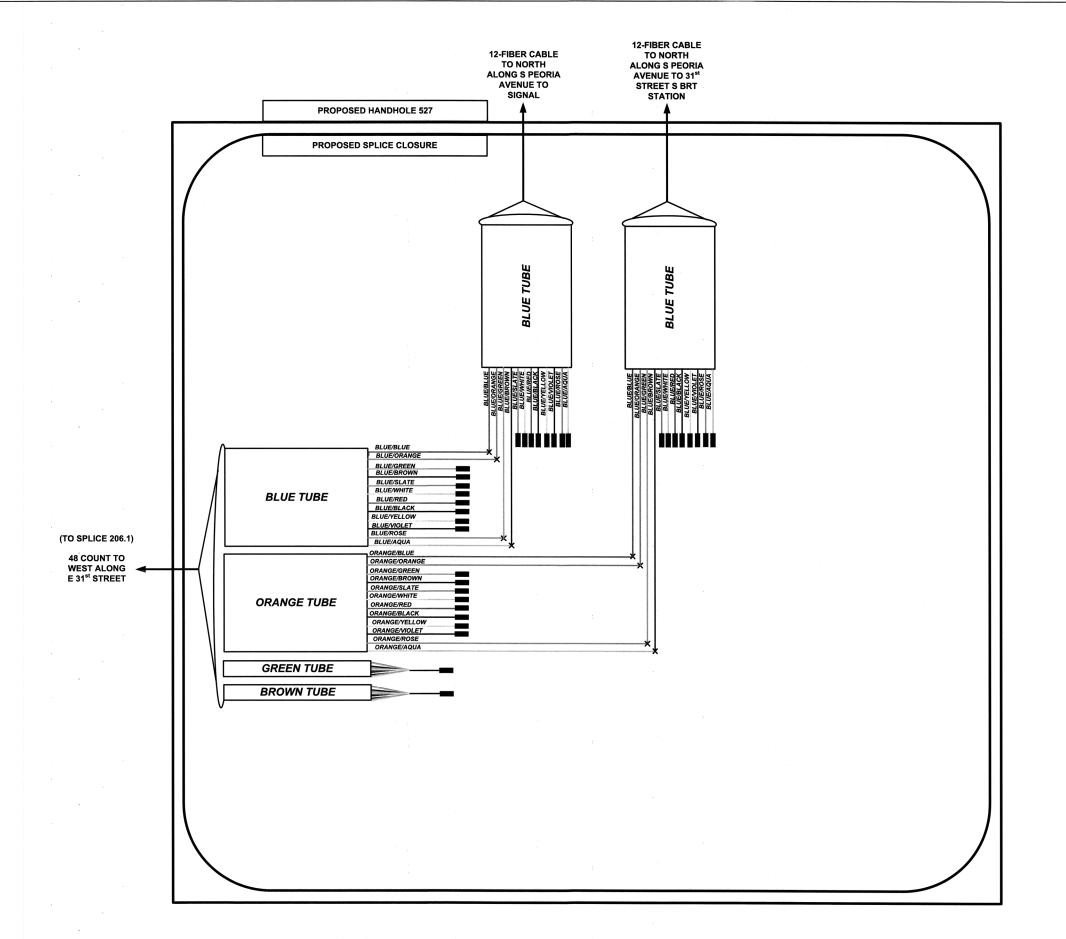
EXISTING FIBER OR FIBER OPTIC CABLE

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

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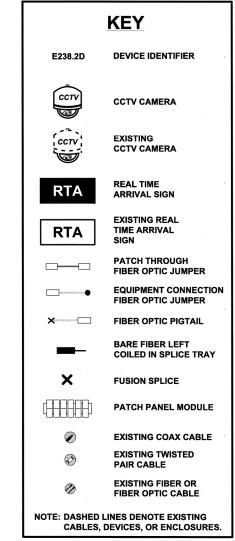


Peoria Avenue, Riverside Drive, E 71st Street, Corridor D.vsd Lewis Avenue E 81st Street

VISIO FILENAME

June 13, 2022

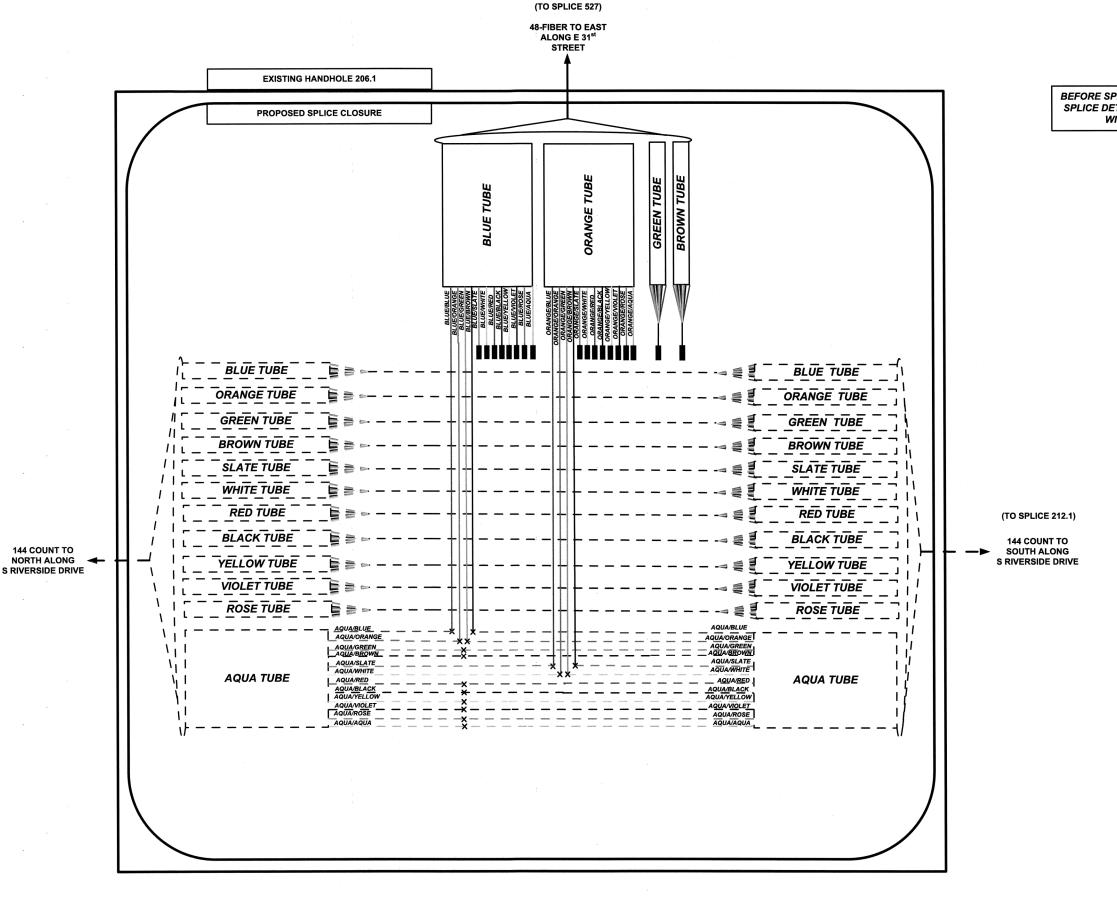
LAST UPDATE DATE:



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BEFORE SPLICING FIBER, VERIFY FINAL SPLICE DETAILS WITH GARY CUMMINS WITH CITY OF TULSA.

ROUTE Peoria Avenue

Riverside Drive E 71st Street,

Lewis Avenue E 81st Street

KEY

VISIO FILENAME

DEVICE IDENTIFIER



CCTV CAMERA

LAST UPDATE DATE: June 13, 2022



EXISTING **CCTV CAMERA**



REAL TIME **ARRIVAL SIGN**

EXISTING REAL

RTA

TIME ARRIVAL

PATCH THROUGH FIBER OPTIC JUMPER

EQUIPMENT CONNECTION FIBER OPTIC JUMPER

FIBER OPTIC PIGTAIL



COILED IN SPLICE TRAY

FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE

EXISTING TWISTED PAIR CABLE

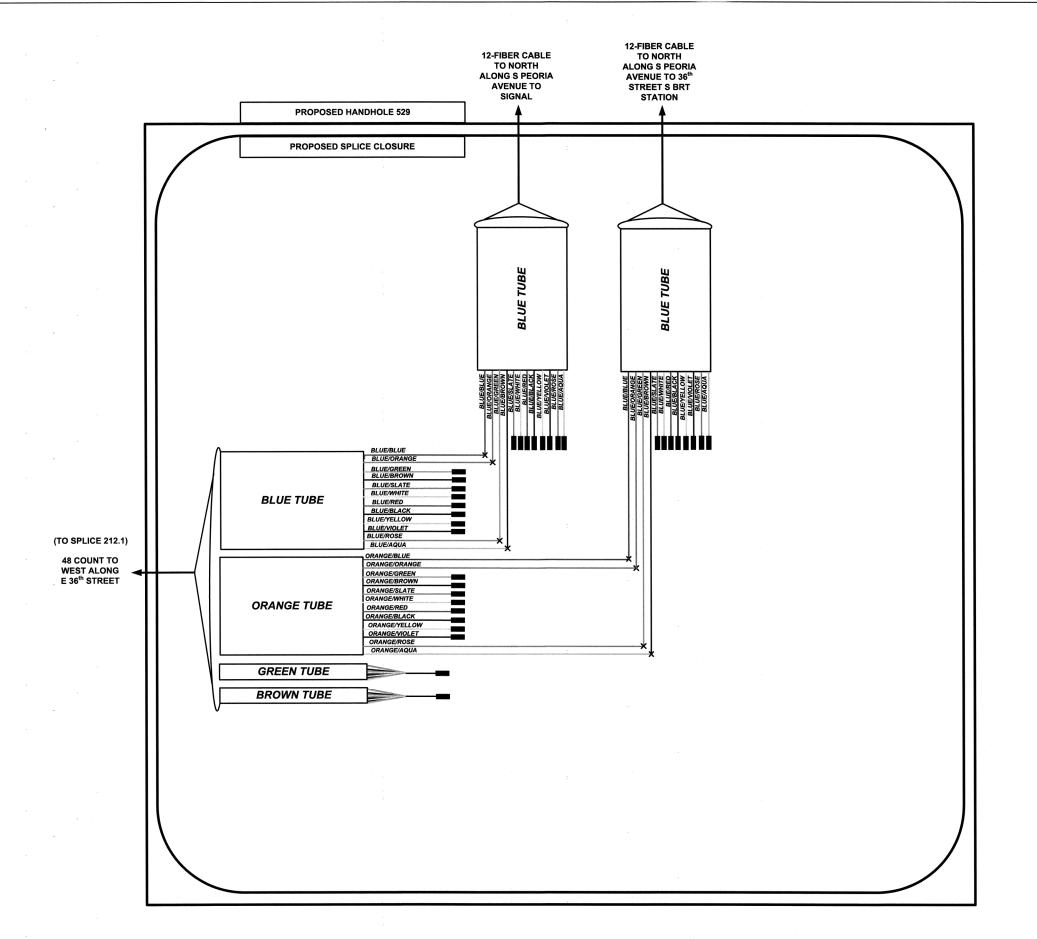
EXISTING FIBER OR FIBER OPTIC CABLE

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Peoria Avenue Riverside Drive E 71st Street, Lewis Avenue E 81st Street

VISIO FILENAME Corridor D.vsd

LAST UPDATE DATE: June 13, 2022

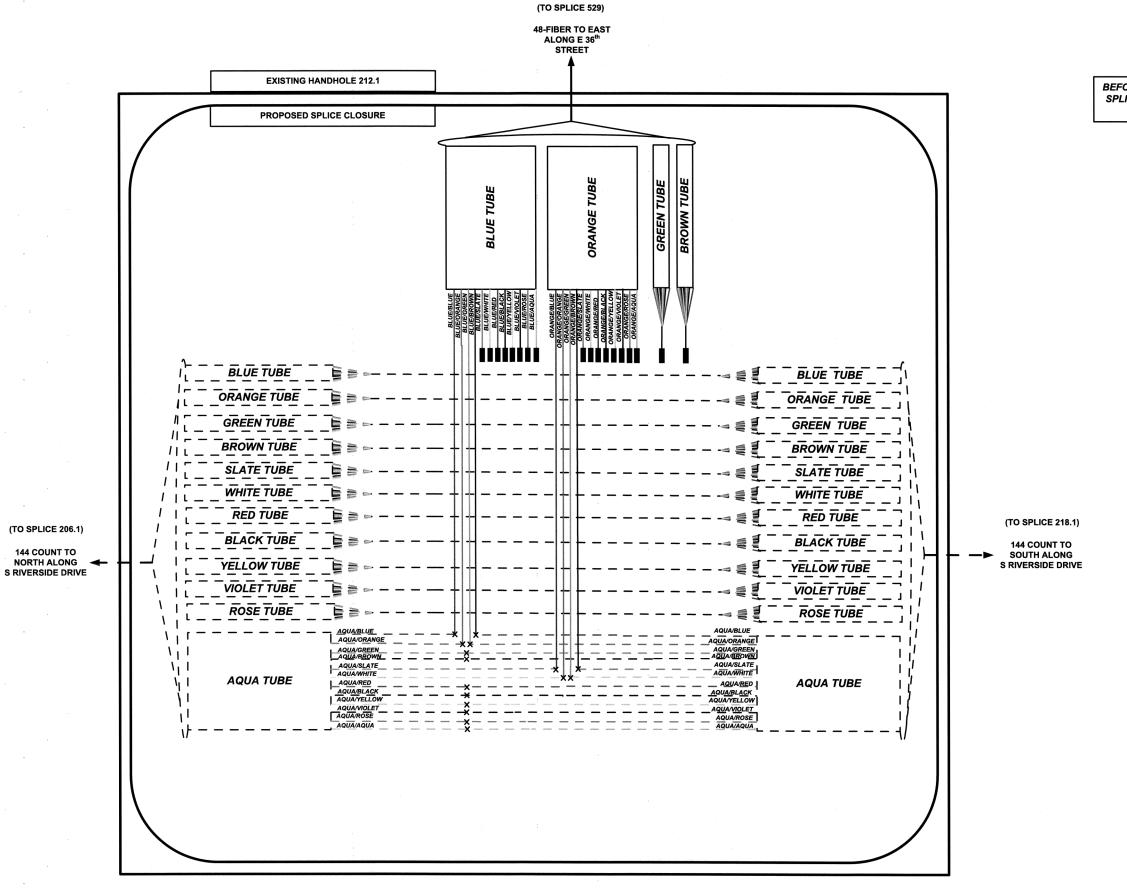
49

KEY DEVICE IDENTIFIER E238.2D CCTV **CCTV CAMERA EXISTING** CCTV **CCTV CAMERA** REAL TIME **RTA** ARRIVAL SIGN **EXISTING REAL** RTA TIME ARRIVAL PATCH THROUGH FIBER OPTIC JUMPER **EQUIPMENT CONNECTION** FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL BARE FIBER LEFT COILED IN SPLICE TRAY **FUSION SPLICE** PATCH PANEL MODULE **EXISTING COAX CABLE EXISTING TWISTED** PAIR CABLE **EXISTING FIBER OR** FIBER OPTIC CABLE NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

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BEFORE SPLICING FIBER, VERIFY FINAL SPLICE DETAILS WITH GARY CUMMINS WITH CITY OF TULSA.

ROUTE Peoria Avenue

Riverside Drive E 71st Street,

Lewis Avenue E 81st Street

KEY

VISIO FILENAME

Corridor D.vsd

E238.2D

DEVICE IDENTIFIER

LAST UPDATE DATE

June 13, 2022



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL

BARE FIBER LEFT



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

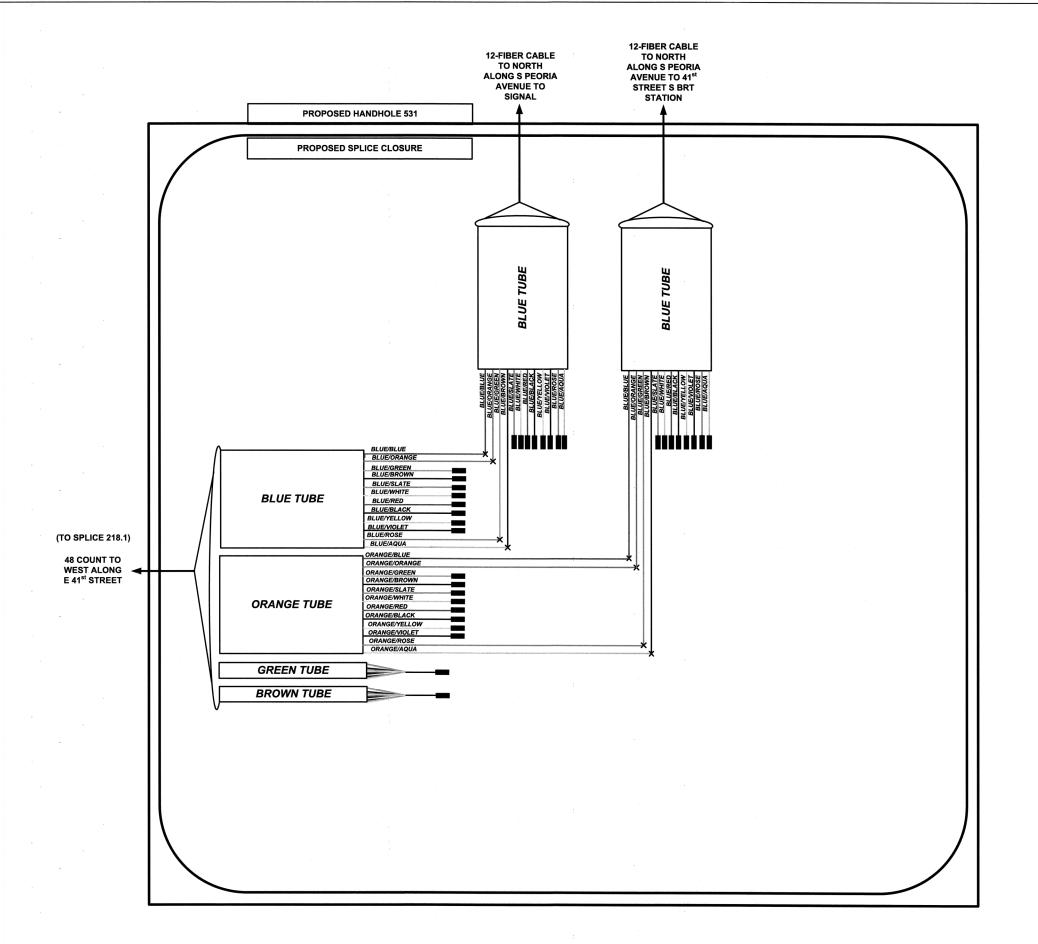
NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

NOT

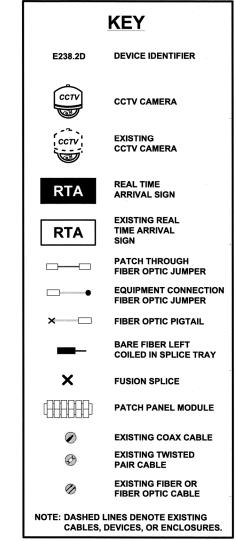
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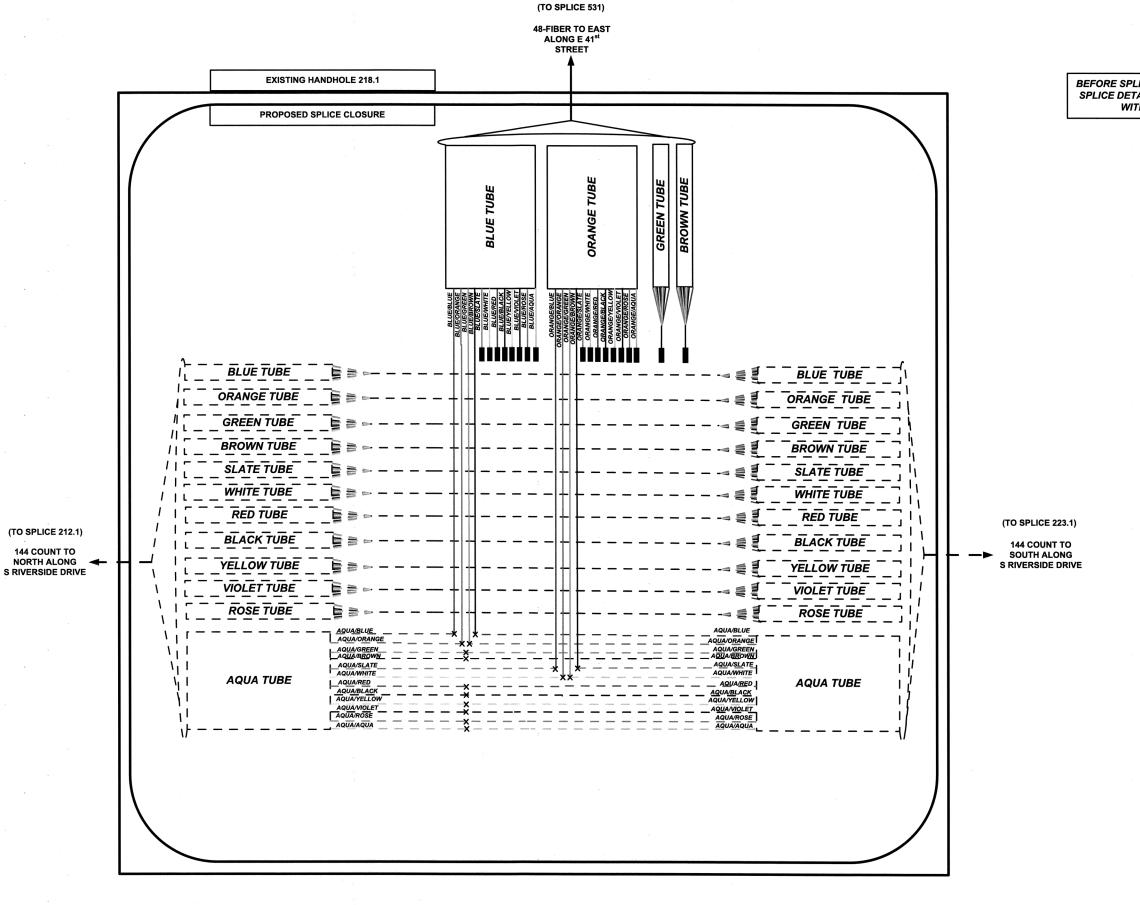
Peoria Avenue VISIO FILENAME SHEET NO Riverside Drive E 71st Street, LAST UPDATE DATE: Corridor D.vsd June 13, 2022 Lewis Avenue, E 81st Street



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BEFORE SPLICING FIBER, VERIFY FINAL SPLICE DETAILS WITH GARY CUMMINS WITH CITY OF TULSA.

ROUTE Peoria Avenue

Riverside Drive E 71st Street,

Lewis Avenue E 81st Street

KEY

VISIO FILENAME

Corridor D.vsd

E238.2D

DEVICE IDENTIFIER

LAST UPDATE DATE:

June 13, 2022

52



CCTV CAMERA



EXISTING CCTV CAMERA

RTA

REAL TIME ARRIVAL SIGN

RTA

EXISTING REAL TIME ARRIVAL SIGN

PATCH THROUGH FIBER OPTIC JUMPER

MUDSHING INTERCHANGE

EQUIPMENT CONNECTION FIBER OPTIC JUMPER

Amount discoverable state

BARE FIBER LEFT COILED IN SPLICE TRAY

FIBER OPTIC PIGTAIL

×

FUSION SPLICE



PATCH PANEL MODULE

0

EXISTING COAX CABLE

EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

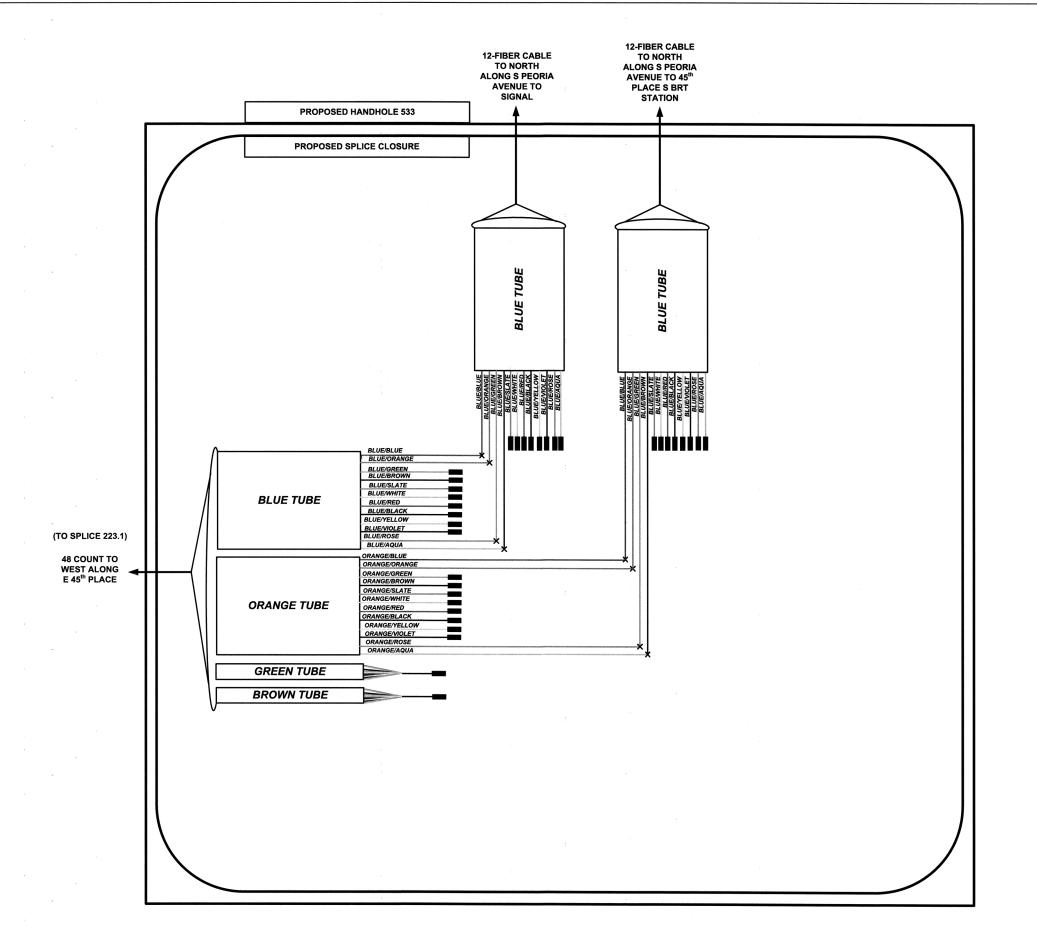
NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

NOT

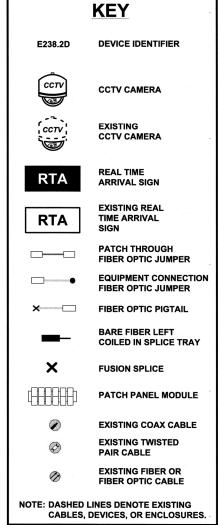
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ROUTE
Peoria Avenue,
Riverside Drive,
E 71st Street,
Lewis Avenue,
E 81st Street

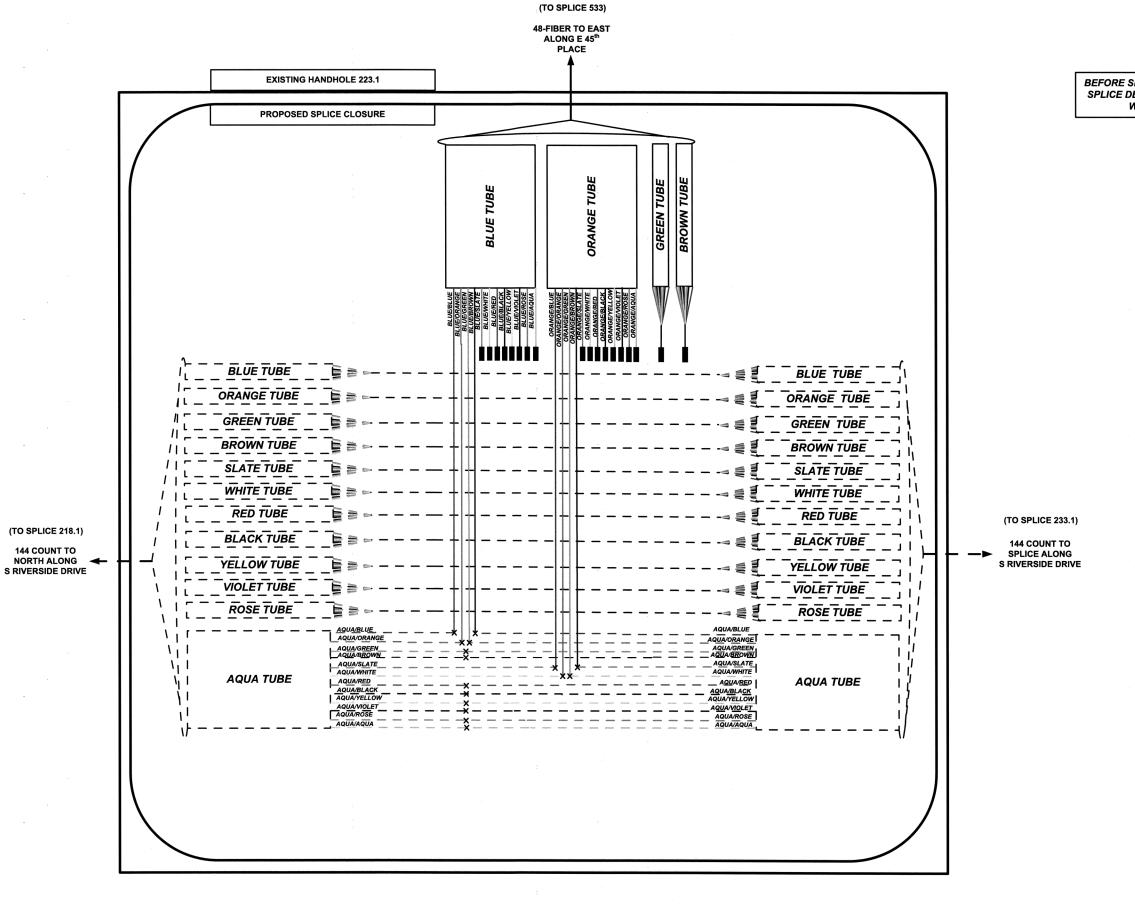


NOTE

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BEFORE SPLICING FIBER, VERIFY FINAL SPLICE DETAILS WITH GARY CUMMINS WITH CITY OF TULSA.

Peoria Avenue

Riverside Drive E 71st Street,

Lewis Avenue E 81st Street VISIO FILENAME

Corridor D.vsd

LAST UPDATE DATE:

June 13, 2022

KEY DEVICE IDENTIFIER E238.2D CCTV **CCTV CAMERA** CCTV **EXISTING** CCTV CAMERA REAL TIME ARRIVAL SIGN **EXISTING REAL** RTA TIME ARRIVAL PATCH THROUGH FIBER OPTIC JUMPER EQUIPMENT CONNECTION FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL 107000 **BARE FIBER LEFT COILED IN SPLICE TRAY** × **FUSION SPLICE** PATCH PANEL MODULE **EXISTING COAX CABLE EXISTING TWISTED** PAIR CABLE EXISTING FIBER OR FIBER OPTIC CABLE

NOT

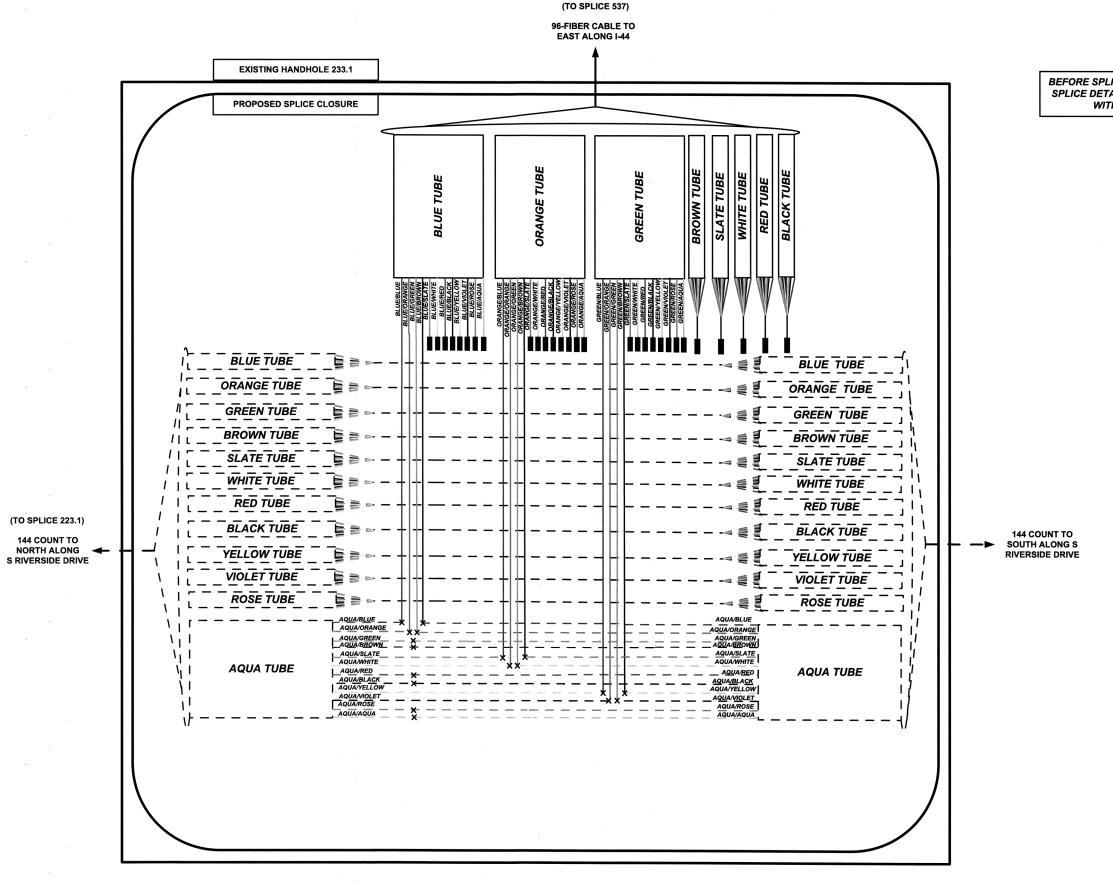
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BEFORE SPLICING FIBER, VERIFY FINAL SPLICE DETAILS WITH GARY CUMMINS WITH CITY OF TULSA.

Peoria Avenue, Riverside Drive, E 71st Street, Lewis Avenue, E 81st Street

KEY

E238.2D

Corridor D.vsd

DEVICE IDENTIFIER

June 13, 2022



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL

BARE FIBER LEFT



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED

PAIR CABLE

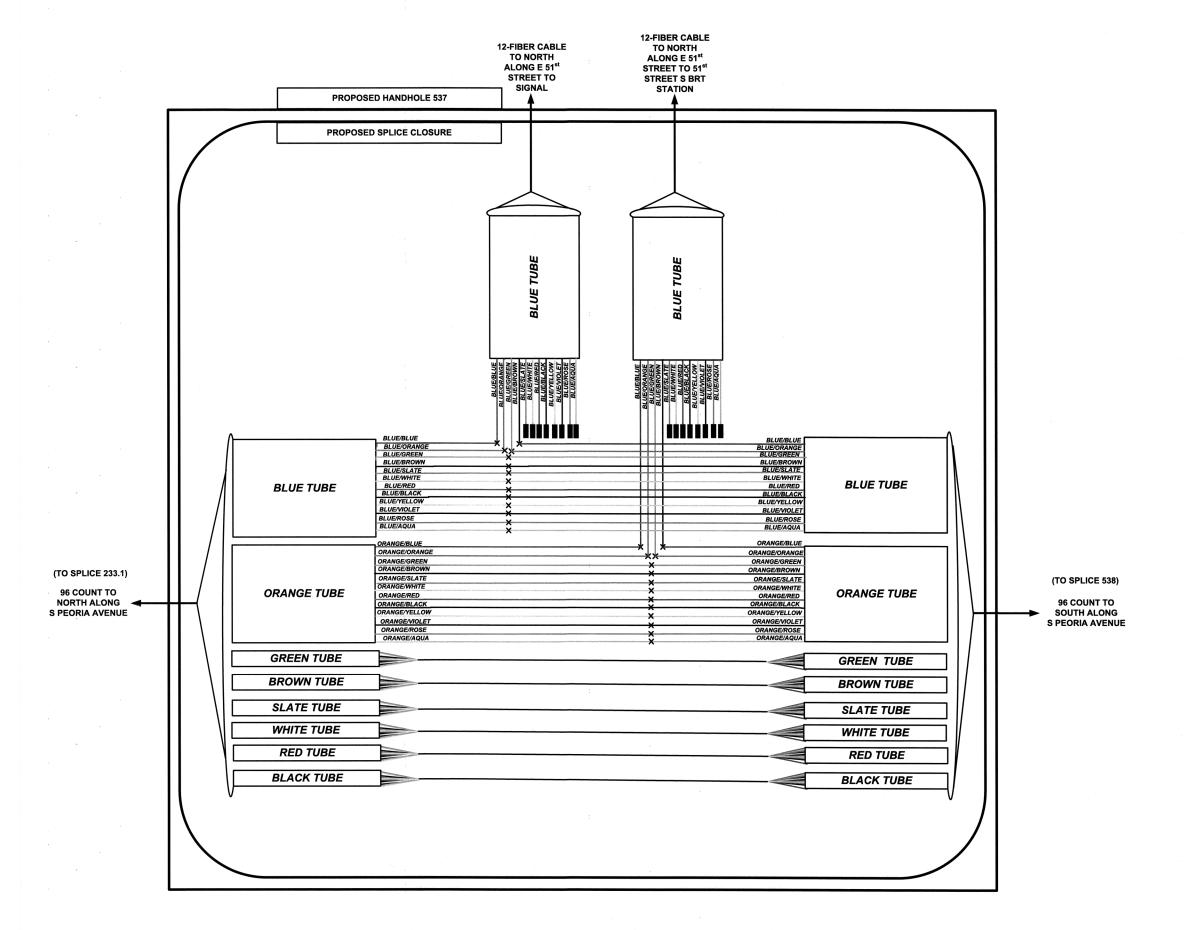
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KEY DEVICE IDENTIFIER E238.2D CCTV **CCTV CAMERA** cctv; EXISTING **CCTV CAMERA** REAL TIME ARRIVAL SIGN **RTA EXISTING REAL** RTA TIME ARRIVAL PATCH THROUGH FIBER OPTIC JUMPER **EQUIPMENT CONNECTION** FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL **BARE FIBER LEFT COILED IN SPLICE TRAY** X **FUSION SPLICE** PATCH PANEL MODULE **EXISTING COAX CABLE EXISTING TWISTED** PAIR CABLE EXISTING FIBER OR FIBER OPTIC CABLE

NOT

Peoria Avenue

Riverside Drive E 71st Street,

Lewis Avenue E 81st Street VISIO FILENAME

Corridor D.vsd

LAST UPDATE DATE:

June 13, 2022

MAXIMUM SPLICE LOSS SHALL BE 0.1 dB.
 NO INTERMEDIATE SPLICES

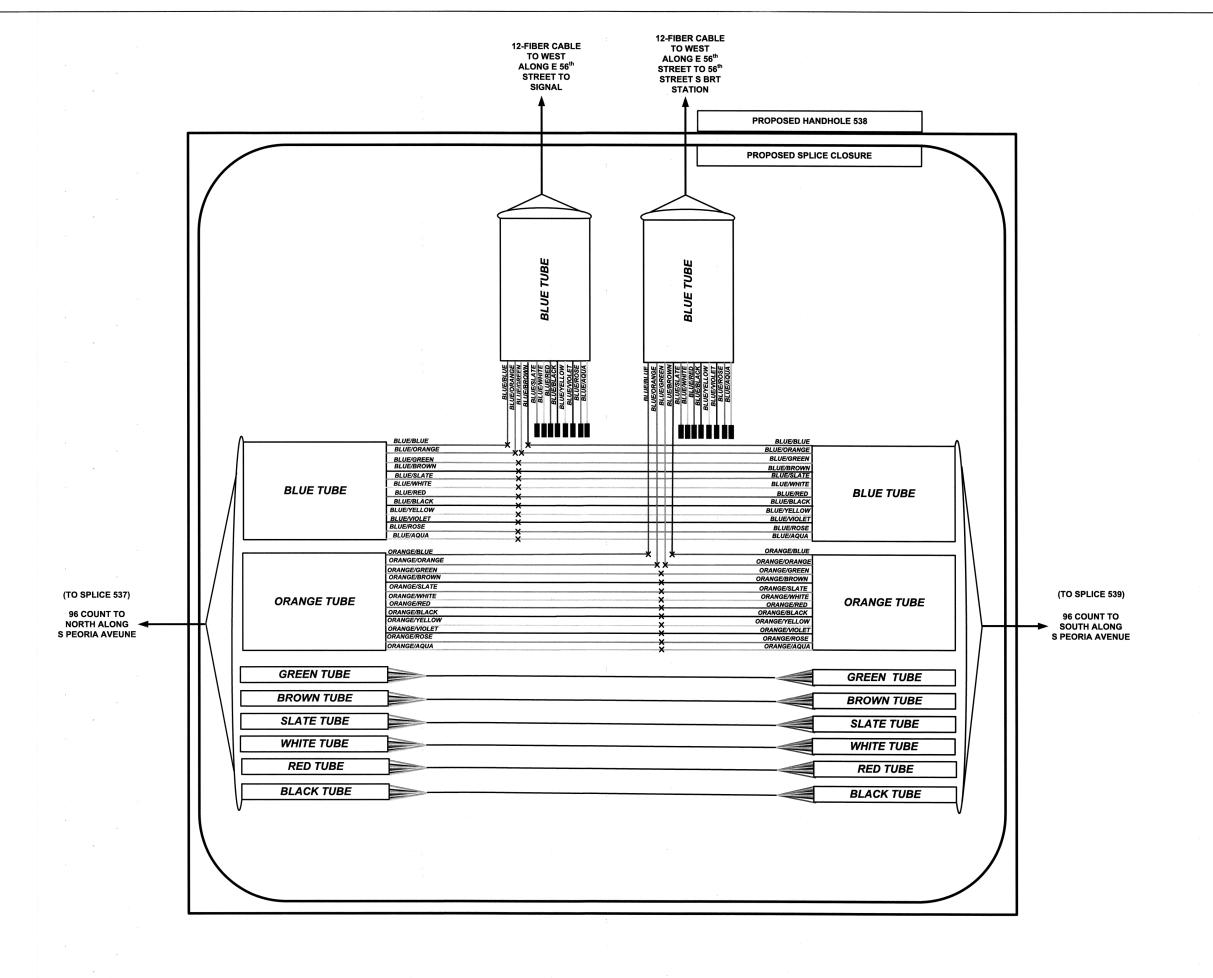
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KEY E238.2D **DEVICE IDENTIFIER** CCTV CCTV CAMERA CCTV **EXISTING CCTV CAMERA** REAL TIME ARRIVAL SIGN **RTA EXISTING REAL** TIME ARRIVAL RTA PATCH THROUGH FIBER OPTIC JUMPER EQUIPMENT CONNECTION FIBER OPTIC JUMPER 01/20/37/07/03/03/03/0 FIBER OPTIC PIGTAIL **BARE FIBER LEFT** COILED IN SPLICE TRAY × **FUSION SPLICE** PATCH PANEL MODULE **EXISTING COAX CABLE EXISTING TWISTED** PAIR CABLE **EXISTING FIBER OR** FIBER OPTIC CABLE

NOT

Peoria Avenue

Riverside Drive, E 71st Street,

Lewis Avenue, E 81st Street VISIO FILENAME

Corridor D.vsd

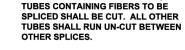
LAST UPDATE DATE:

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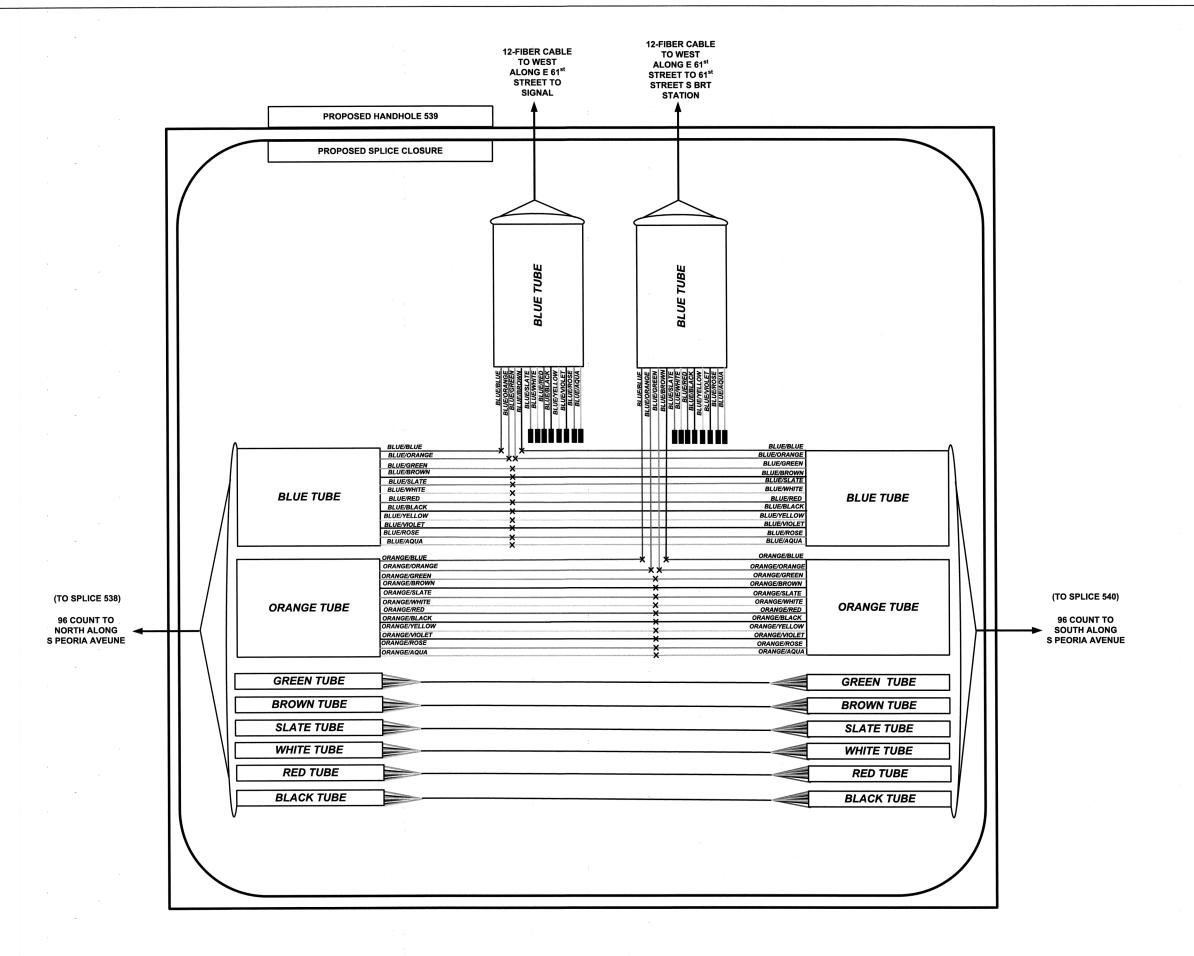
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ROUTE Peoria Avenue Riverside Drive E 71st Street, Lewis Avenue E 81st Street

VISIO FILENAME

Corridor D.vsd

LAST UPDATE DATE:

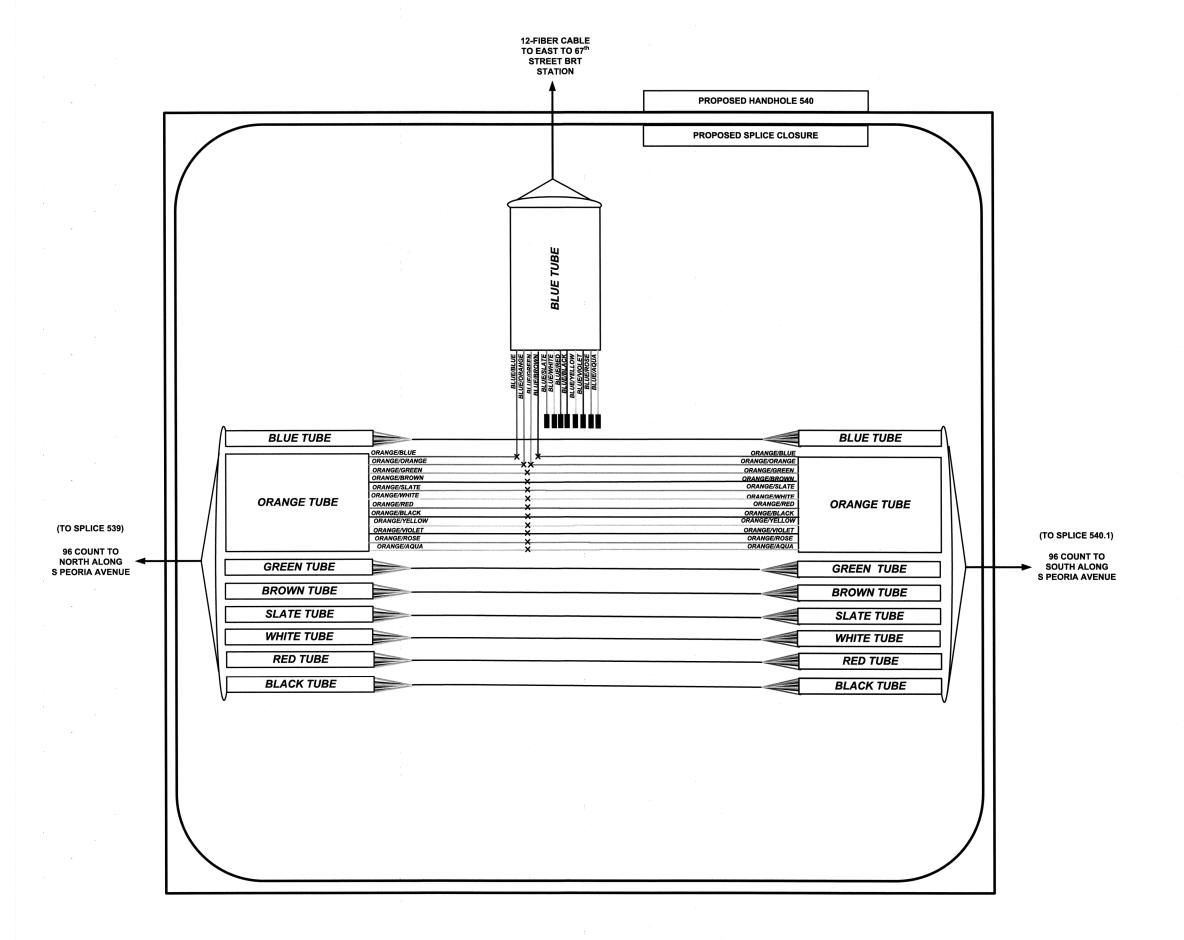
June 13, 2022

KEY DEVICE IDENTIFIER CCTV **CCTV CAMERA** CCTV EXISTING **CCTV CAMERA** REAL TIME **RTA ARRIVAL SIGN EXISTING REAL** TIME ARRIVAL RTA PATCH THROUGH FIBER OPTIC JUMPER **EQUIPMENT CONNECTION** FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL NG2 BARE FIBER LEFT COILED IN SPLICE TRAY X **FUSION SPLICE** PATCH PANEL MODULE **EXISTING COAX CABLE EXISTING TWISTED** PAIR CABLE **EXISTING FIBER OR** FIBER OPTIC CABLE NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

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- ALLOWED. 3. ALL SPLICES SHALL BE FUSION SPLICES.
- 4. WHEN SPLICING UNDERGROUND, ONLY TUBES CONTAINING FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN OTHER SPLICES.







ROUTE Peoria Avenue Riverside Drive E 71st Street, Lewis Avenue E 81st Street

VISIO FILENAME Corridor D.vsd

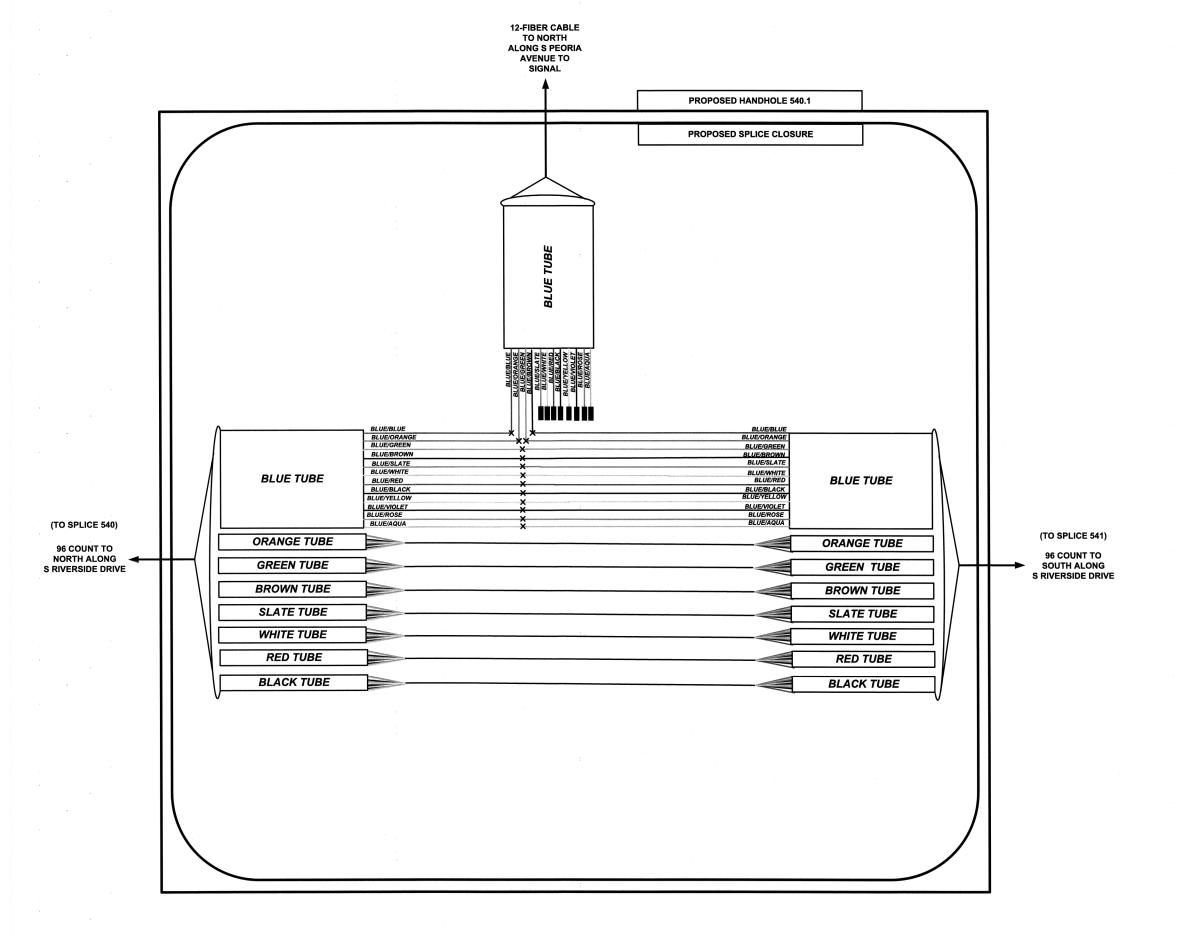
LAST UPDATE DATE: June 13, 2022

KEY DEVICE IDENTIFIER CCTV **CCTV CAMERA** CCTV **EXISTING CCTV CAMERA** REAL TIME RTA ARRIVAL SIGN **EXISTING REAL** TIME ARRIVAL RTA PATCH THROUGH FIBER OPTIC JUMPER **EQUIPMENT CONNECTION** 10/10/100 FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL BARE FIBER LEFT COILED IN SPLICE TRAY **FUSION SPLICE** PATCH PANEL MODULE **EXISTING COAX CABLE EXISTING TWISTED** PAIR CABLE **EXISTING FIBER OR** FIBER OPTIC CABLE NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

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VISIO FILENAME

Corridor D.vsd

E238.2D

Peoria Avenue, Riverside Drive, E 71st Street,

E 81st Street

DEVICE IDENTIFIER

LAST UPDATE DATE:

June 13, 2022

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CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN

RTA

EXISTING REAL TIME ARRIVAL SIGN

PATCH THROUGH FIBER OPTIC JUMPER

CONTROL TO A TO A FOR CONTROL

EQUIPMENT CONNECTION FIBER OPTIC JUMPER

FIBER OPTIC PIGTAIL

BARE FIBER LEFT COILED IN SPLICE TRAY

×

FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE

Ø

EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

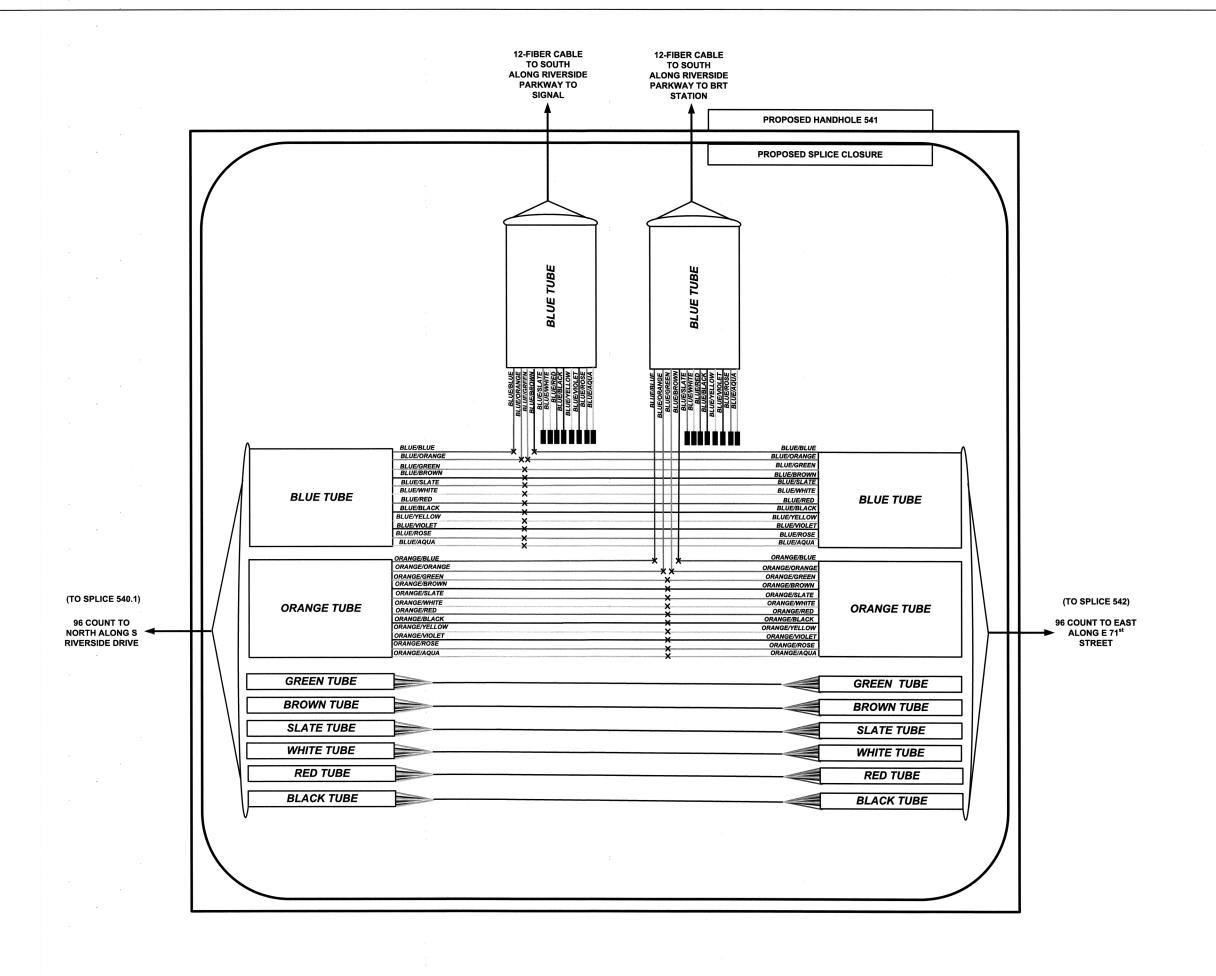
NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

NOTE

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 ALL OWER
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KEY E238.2D **DEVICE IDENTIFIER** CCTV **CCTV CAMERA EXISTING** CCTV CCTV CAMERA REAL TIME ARRIVAL SIGN **RTA EXISTING REAL** RTA TIME ARRIVAL PATCH THROUGH FIBER OPTIC JUMPER **EQUIPMENT CONNECTION** constructs FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL The state of the s **BARE FIBER LEFT COILED IN SPLICE TRAY** × **FUSION SPLICE** PATCH PANEL MODULE **EXISTING COAX CABLE EXISTING TWISTED** PAIR CABLE EXISTING FIBER OR FIBER OPTIC CABLE

NOT

Peoria Avenue

Riverside Drive E 71st Street,

Lewis Avenue E 81st Street VISIO FILENAME

Corridor D.vsd

LAST UPDATE DATE:

June 13, 2022

MAXIMUM SPLICE LOSS SHALL BE 0.1 dB.
 NO INTERMEDIATE SPLICES

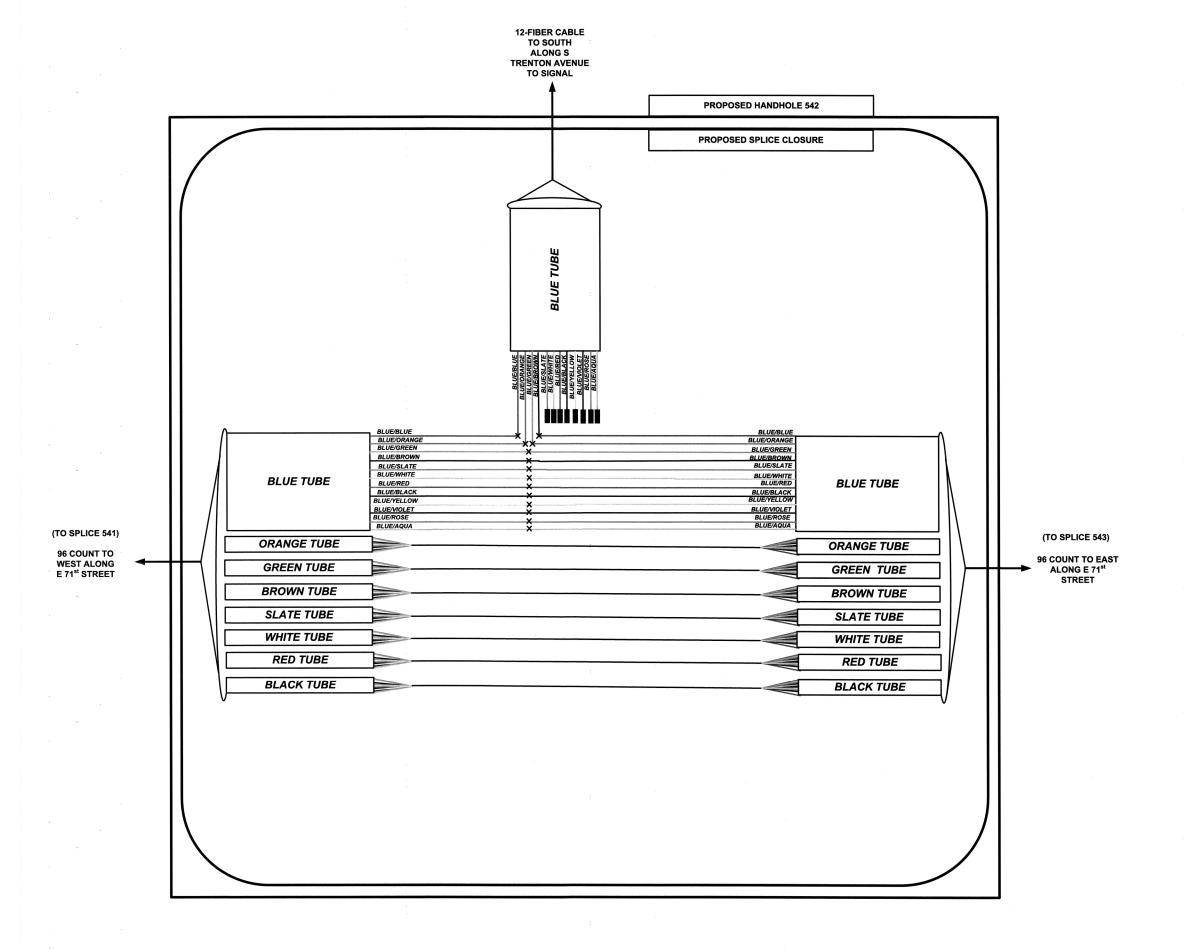
NOTE: DASHED LINES DENOTE EXISTING

CABLES, DEVICES, OR ENCLOSURES.

- ALLOWED.
- ALL SPLICES SHALL BE FUSION SPLICES.
 WHEN SPLICING UNDERGROUND, ONLY
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VISIO FILENAME

Corridor D.vsd

E238.2D

Peoria Avenue

Riverside Drive E 71st Street,

Lewis Avenue E 81st Street

DEVICE IDENTIFIER

LAST UPDATE DATE:

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CCTV CAMERA



EXISTING CCTV CAMERA

RTA

REAL TIME ARRIVAL SIGN

RTA

EXISTING REAL TIME ARRIVAL

PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED

PAIR CABLE

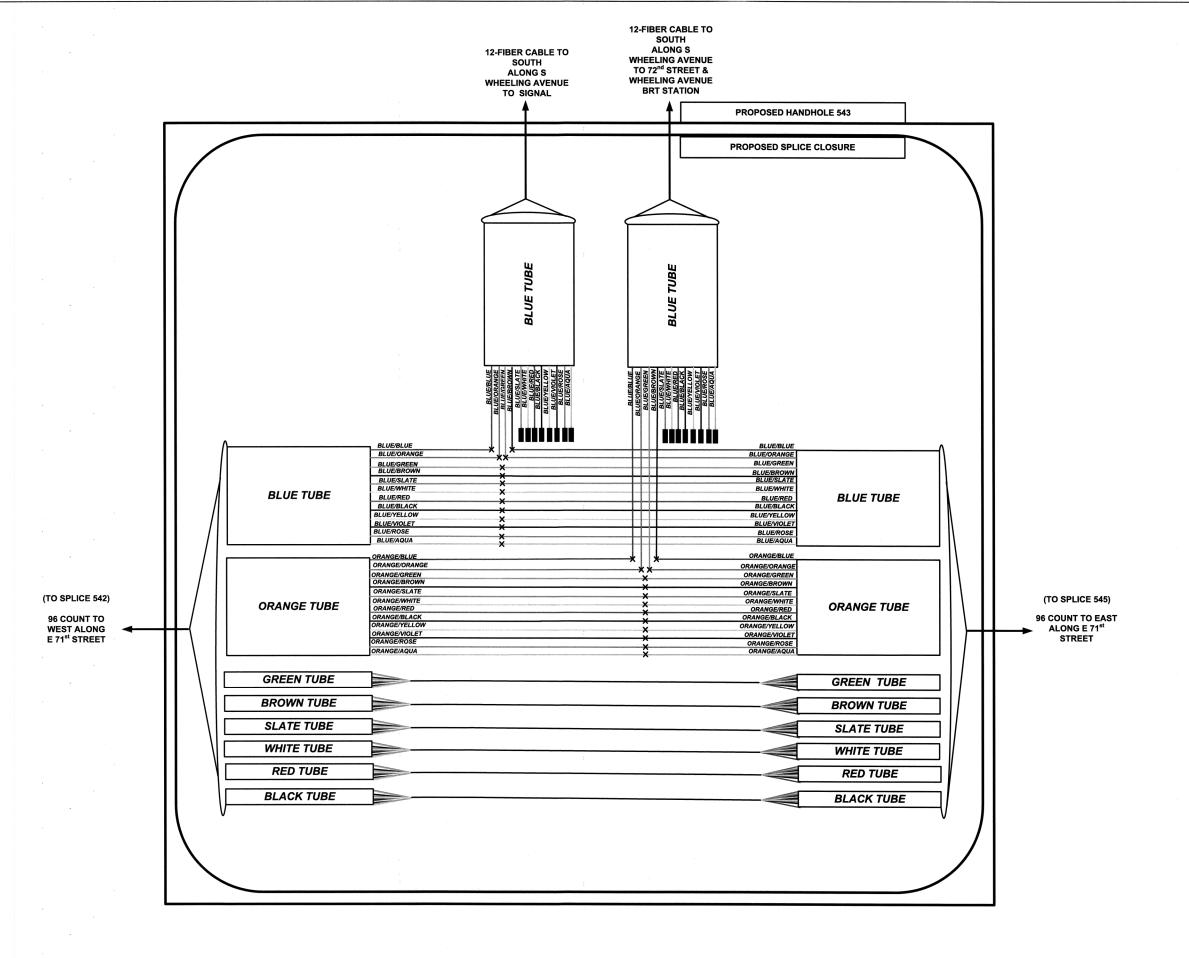
EXISTING FIBER OR FIBER OPTIC CABLE

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DEVICE IDENTIFIER

VISIO FILENAME

Corridor D.vsd

LAST UPDATE DATE:

June 13, 2022



Peoria Avenue

Riverside Drive E 71st Street,

Lewis Avenue E 81st Street

CCTV CAMERA



EXISTING **CCTV CAMERA**



REAL TIME ARRIVAL SIGN

EXISTING REAL TIME ARRIVAL

RTA



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED

PAIR CABLE

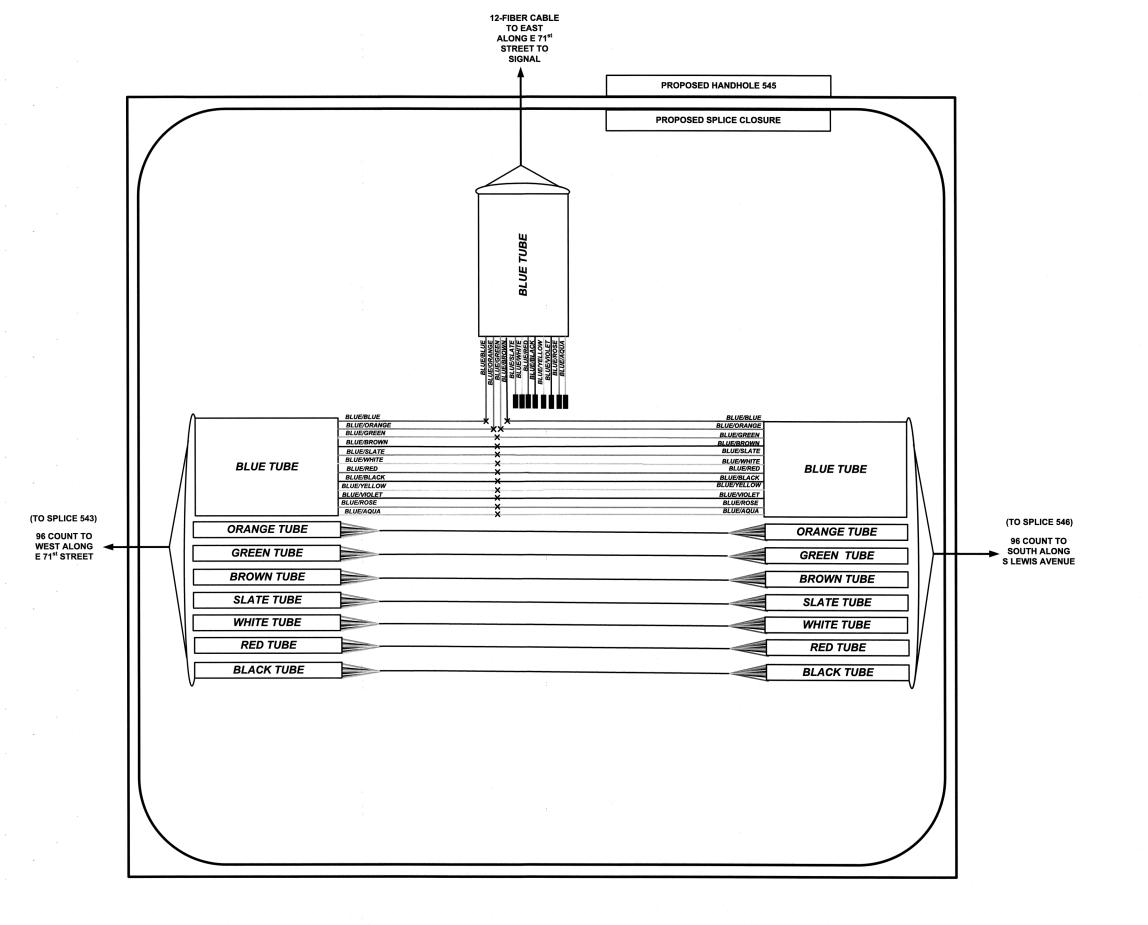
EXISTING FIBER OR FIBER OPTIC CABLE

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E238.2D

VISIO FILENAME

Corridor D.vsd

Peoria Avenue

Riverside Drive, E 71st Street,

Lewis Avenue, E 81st Street

DEVICE IDENTIFIER

LAST UPDATE DATE:

June 13, 2022



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN

EXISTING REAL

PATCH THROUGH



TIME ARRIVAL SIGN



FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED

PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

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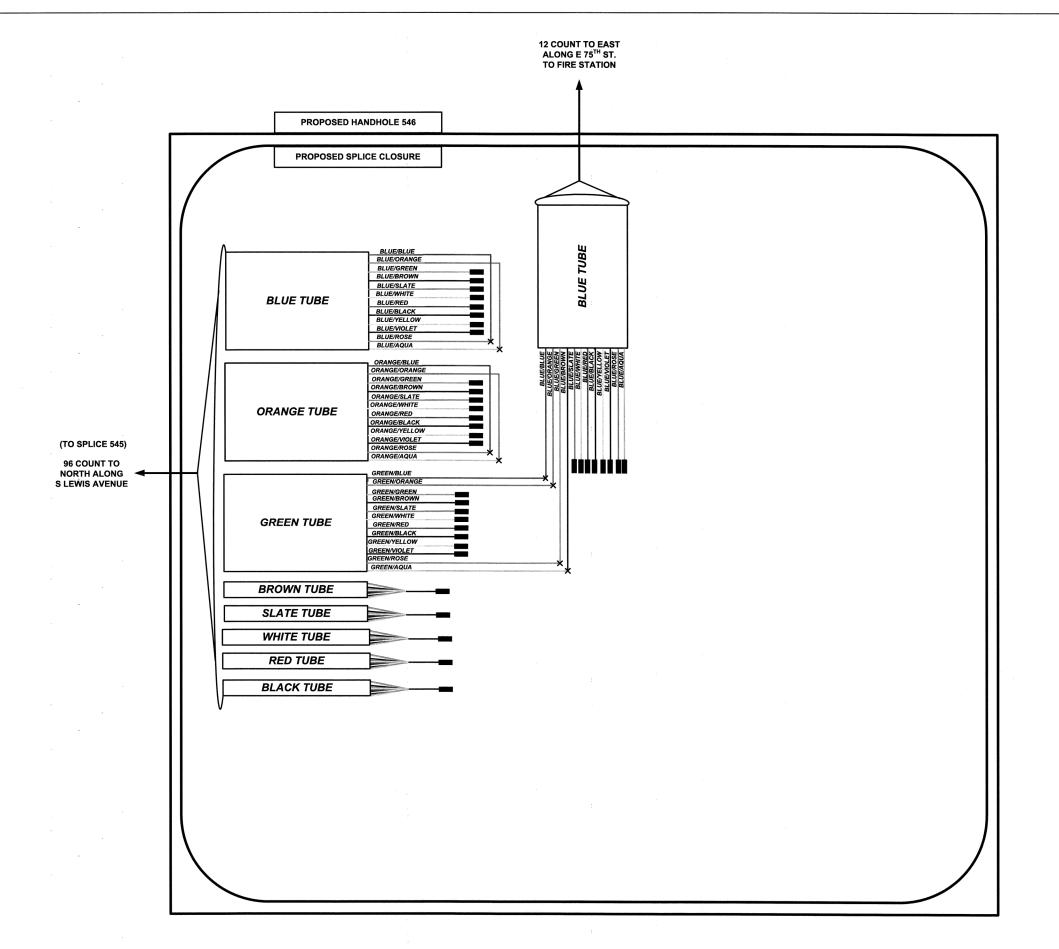
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 WHEN SPLICING UNDERGROUND, ONLY TUBES CONTAINING FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN



FIBER SPLICING AND CONNECTION DETAIL

TUISA
A New Kind of Energy.



KEY DEVICE IDENTIFIER E238.2D CCTV CAMERA **EXISTING** CCTV **CCTV CAMERA** REAL TIME **RTA** ARRIVAL SIGN **EXISTING REAL** TIME ARRIVAL RTA PATCH THROUGH FIBER OPTIC JUMPER **EQUIPMENT CONNECTION** FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL BARE FIBER LEFT COILED IN SPLICE TRAY × **FUSION SPLICE** PATCH PANEL MODULE **EXISTING COAX CABLE EXISTING TWISTED** PAIR CABLE EXISTING FIBER OR FIBER OPTIC CABLE

NOTES

Peoria Avenue, Riverside Drive, E 71st Street, Lewis Avenue, E 81st Street

Corridor D.vsd

June 13, 2022

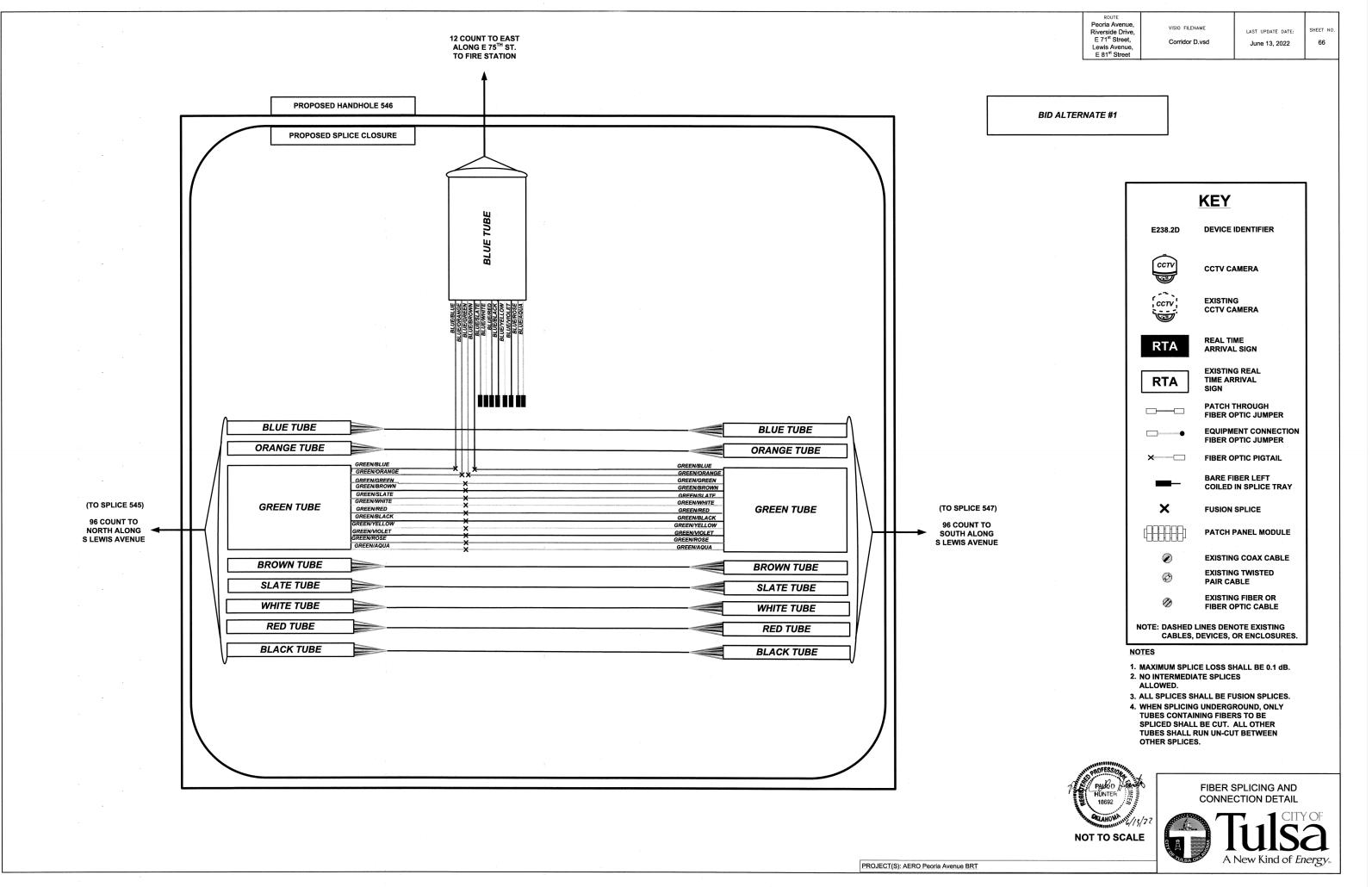
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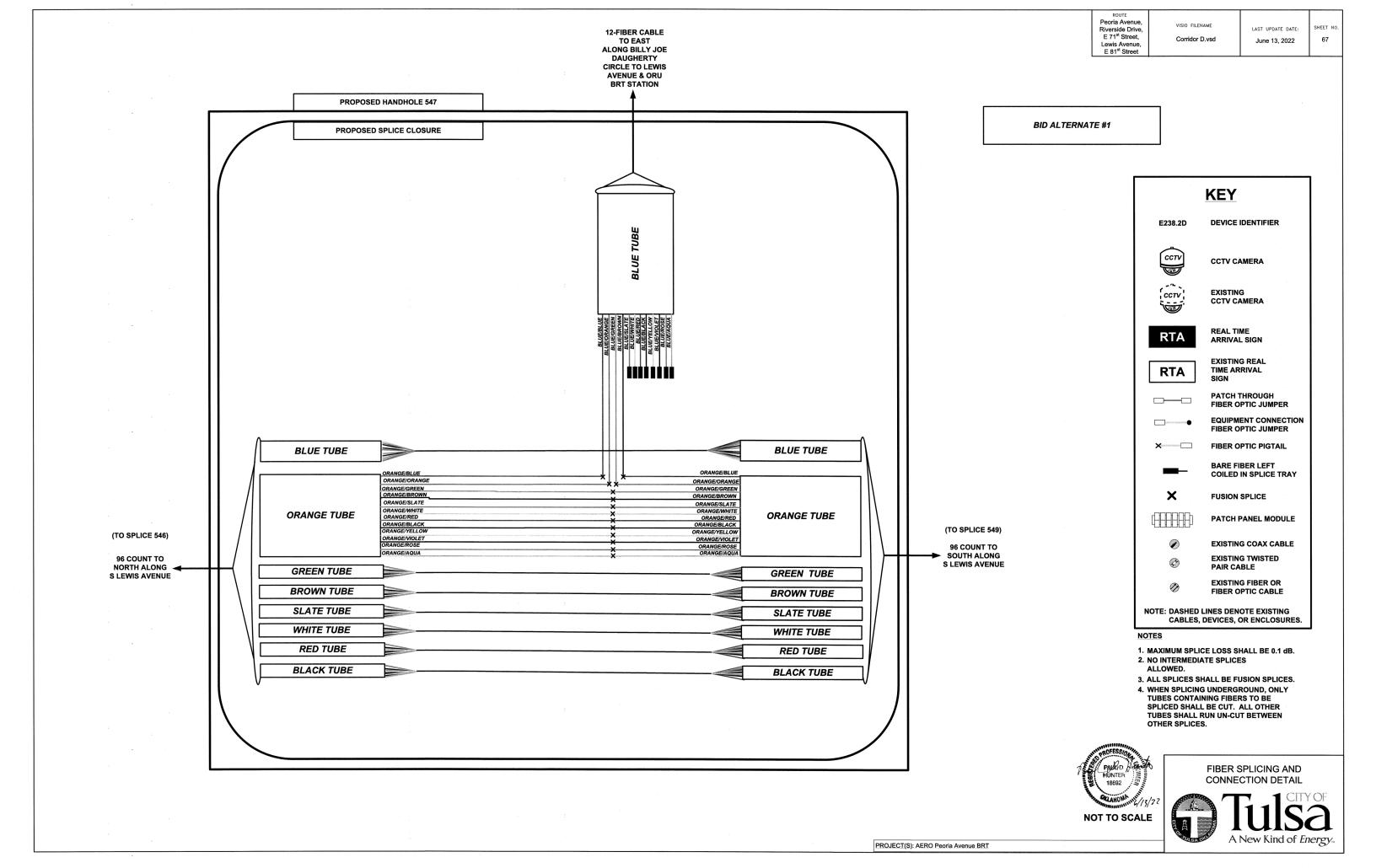
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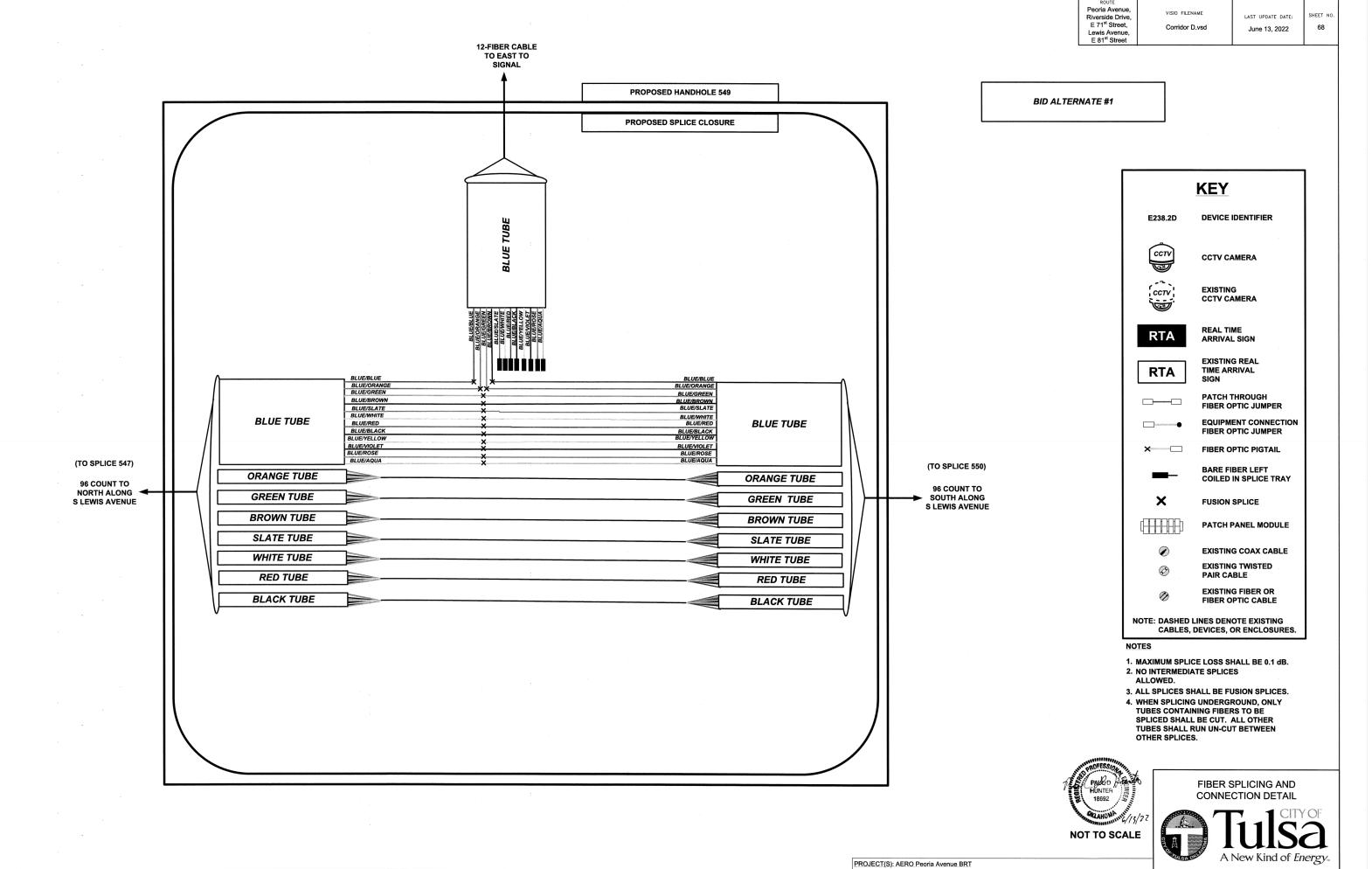
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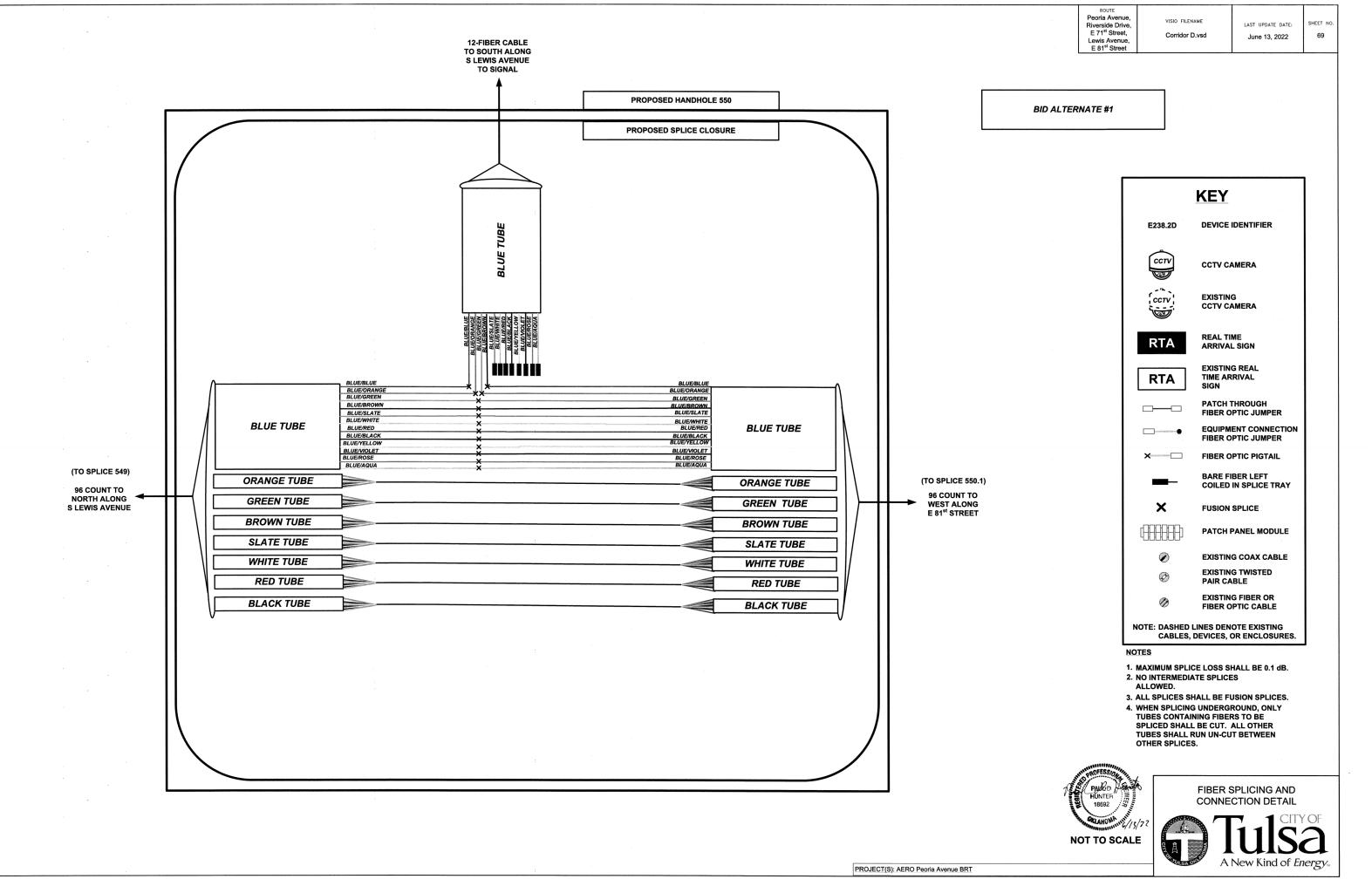


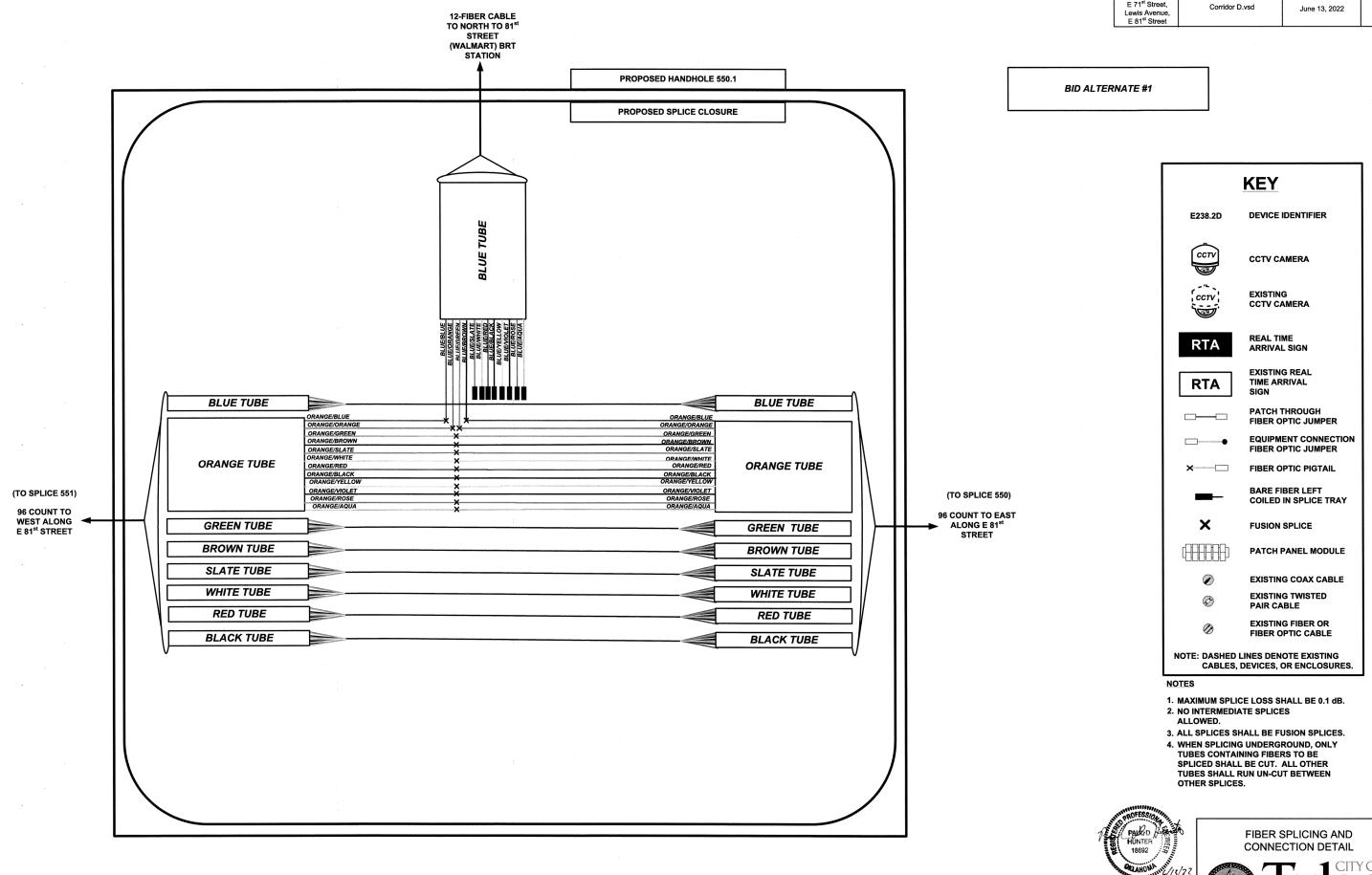












PROJECT(S): AERO Peoria Avenue BRT



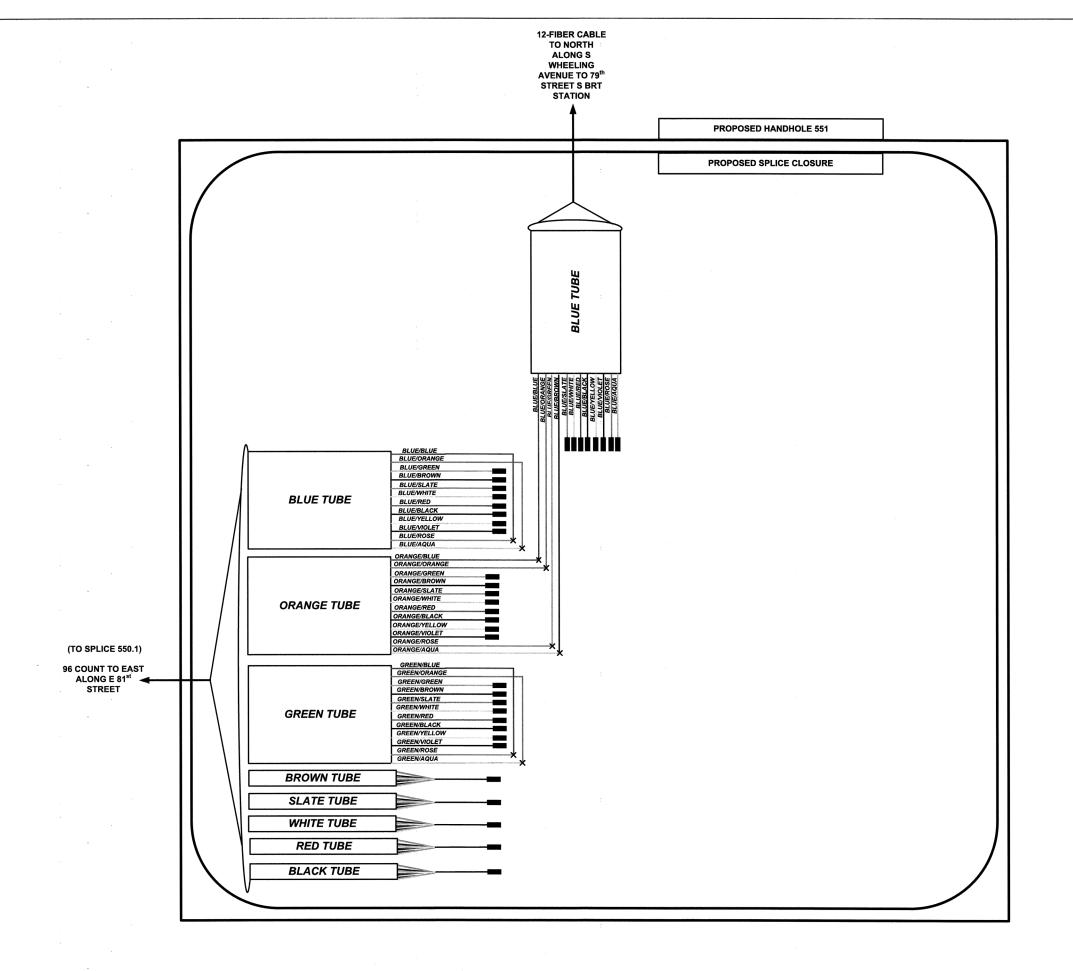
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Peoria Avenue

Riverside Drive E 71st Street,

VISIO FILENAME

LAST UPDATE DATE:



Peoria Avenue, Riverside Drive, E 71st Street, Lewis Avenue, E 81st Street

VISIO FILENAME

Corridor D.vsd

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BID ALTERNATE #1

KEY

E238.2D

DEVICE IDENTIFIER



CCTV CAMERA



EXISTING **CCTV CAMERA**



REAL TIME **ARRIVAL SIGN**



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER





BARE FIBER LEFT **COILED IN SPLICE TRAY**



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE

EXISTING TWISTED PAIR CABLE

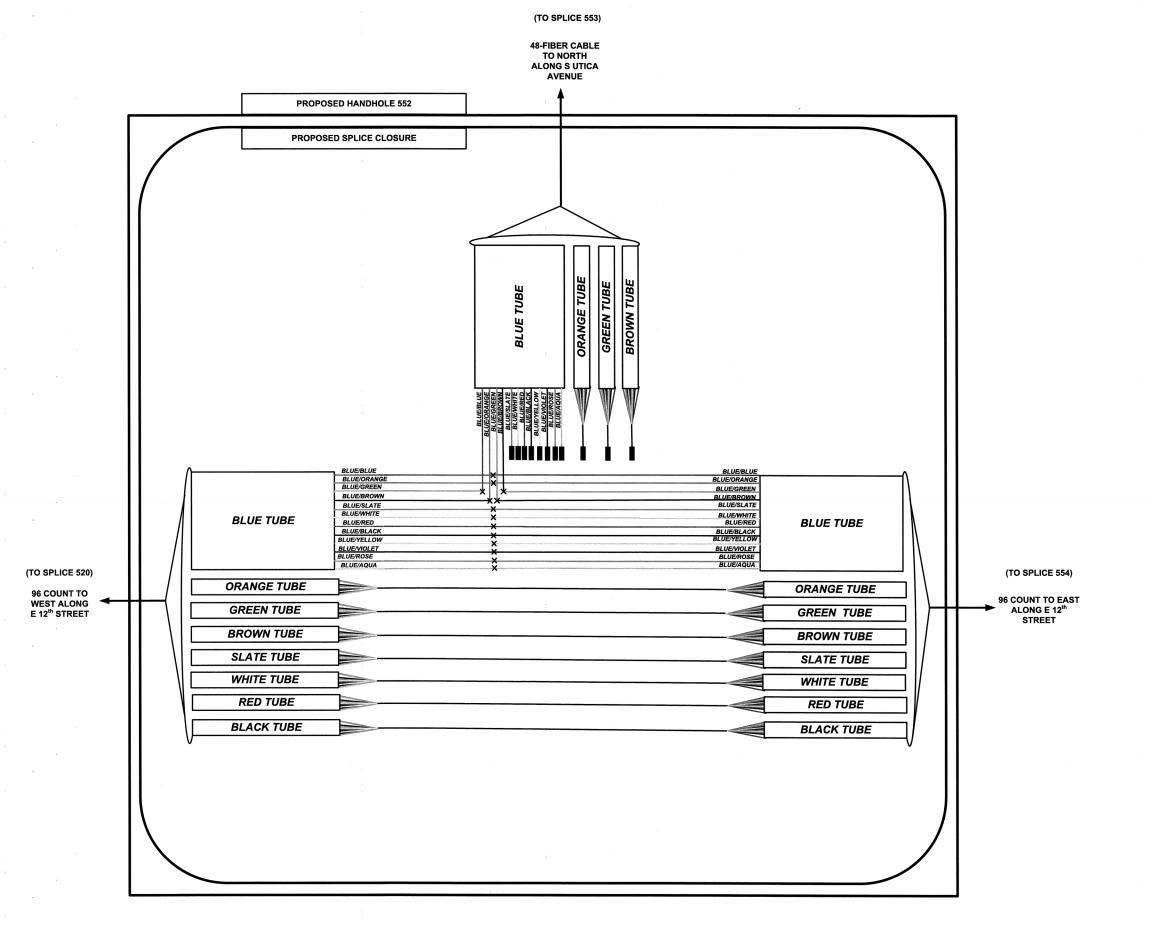
EXISTING FIBER OR FIBER OPTIC CABLE

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VISIO FILENAME

and E 11th Stree

Corridor B.vsd

DEVICE IDENTIFIER E238.2D



CCTV CAMERA

LAST UPDATE DATE:

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SHEET NO.

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EXISTING CCTV CAMERA



REAL TIME **ARRIVAL SIGN**



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT **COILED IN SPLICE TRAY**



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

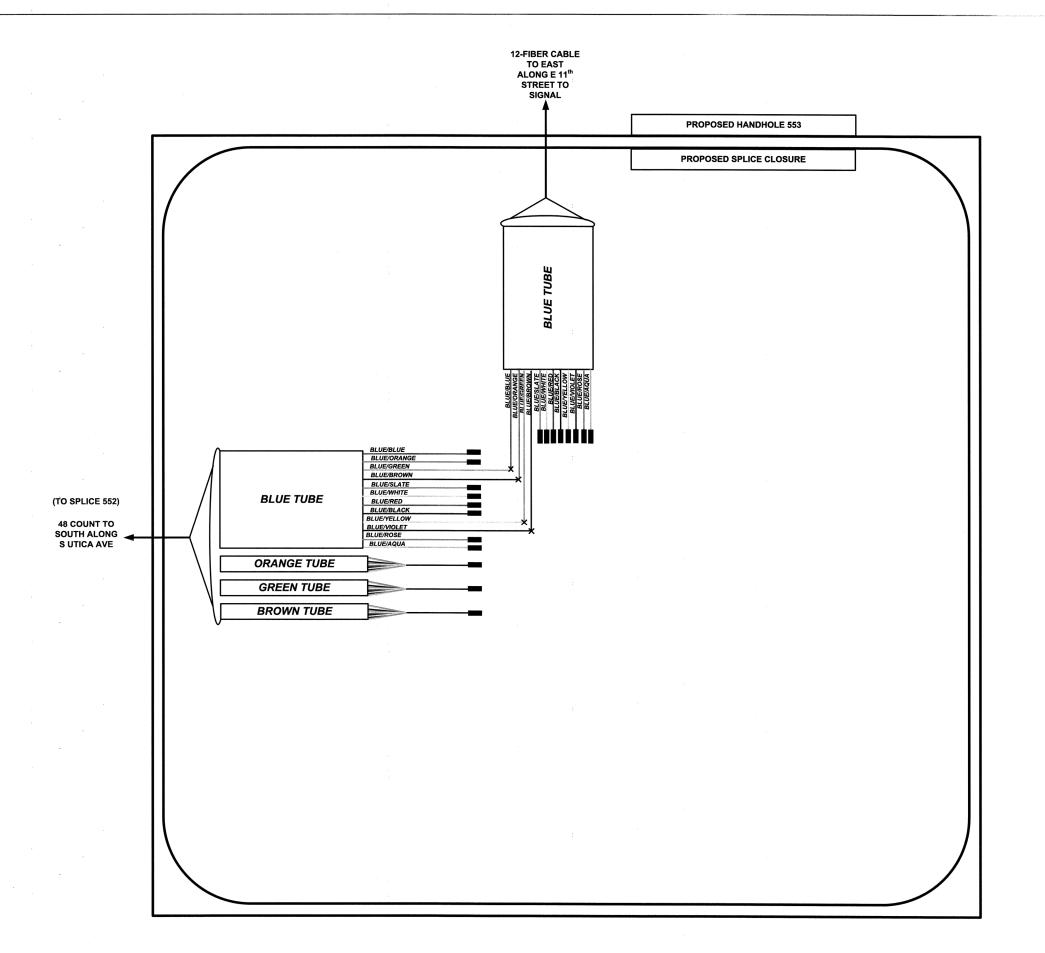
EXISTING FIBER OR FIBER OPTIC CABLE

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KEY DEVICE IDENTIFIER E238.2D CCTV CAMERA **EXISTING** CCTV CCTV CAMERA REAL TIME **RTA** ARRIVAL SIGN **EXISTING REAL** RTA TIME ARRIVAL PATCH THROUGH FIBER OPTIC JUMPER **EQUIPMENT CONNECTION** soniti cultura mus FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL BARE FIBER LEFT COILED IN SPLICE TRAY X **FUSION SPLICE** PATCH PANEL MODULE **EXISTING COAX CABLE EXISTING TWISTED** PAIR CABLE EXISTING FIBER OR FIBER OPTIC CABLE

NOTES

ROUTE

Peoria Avenue and E 11th Street VISIO FILENAME

Corridor B.vsd

LAST UPDATE DATE:

June 13, 2022

SHEET NO.

73

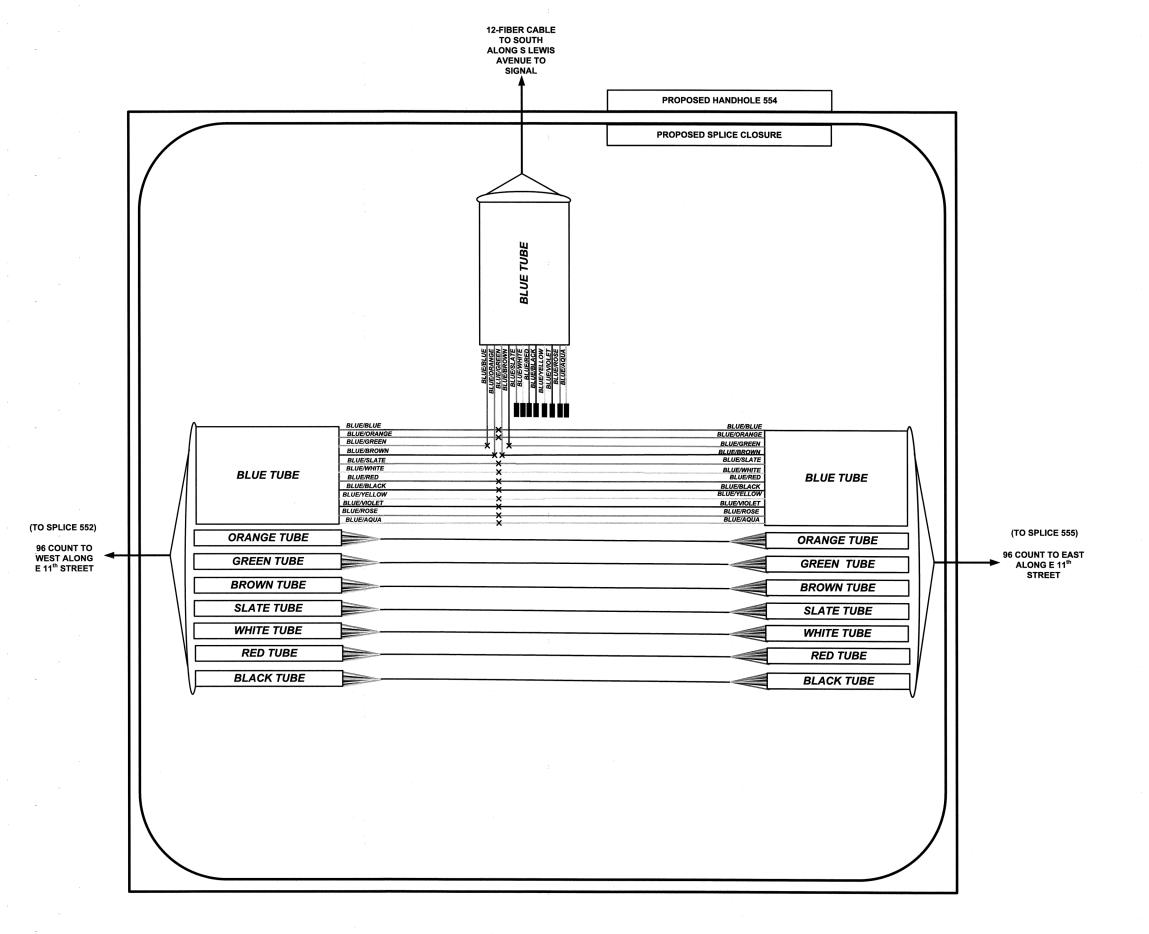
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VISIO FILENAME

Peoria Avenue and E 11th Street

E238.2D DEVICE IDENTIFIER



CCTV CAMERA

LAST UPDATE DATE:

June 13, 2022



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED

PAIR CABLE

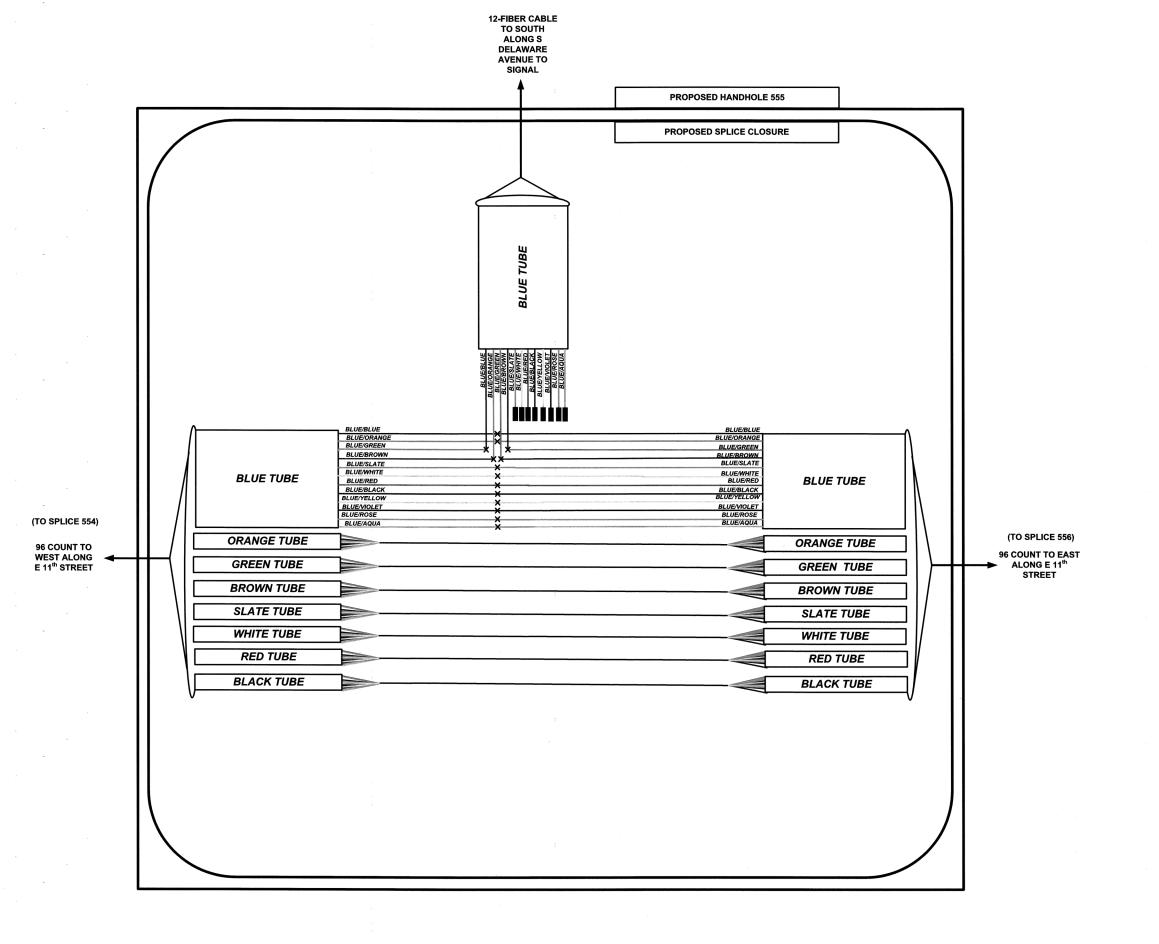
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VISIO FILENAME

Corridor B.vsd

Peoria Avenue and E 11th Street LAST UPDATE DATE:

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E238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

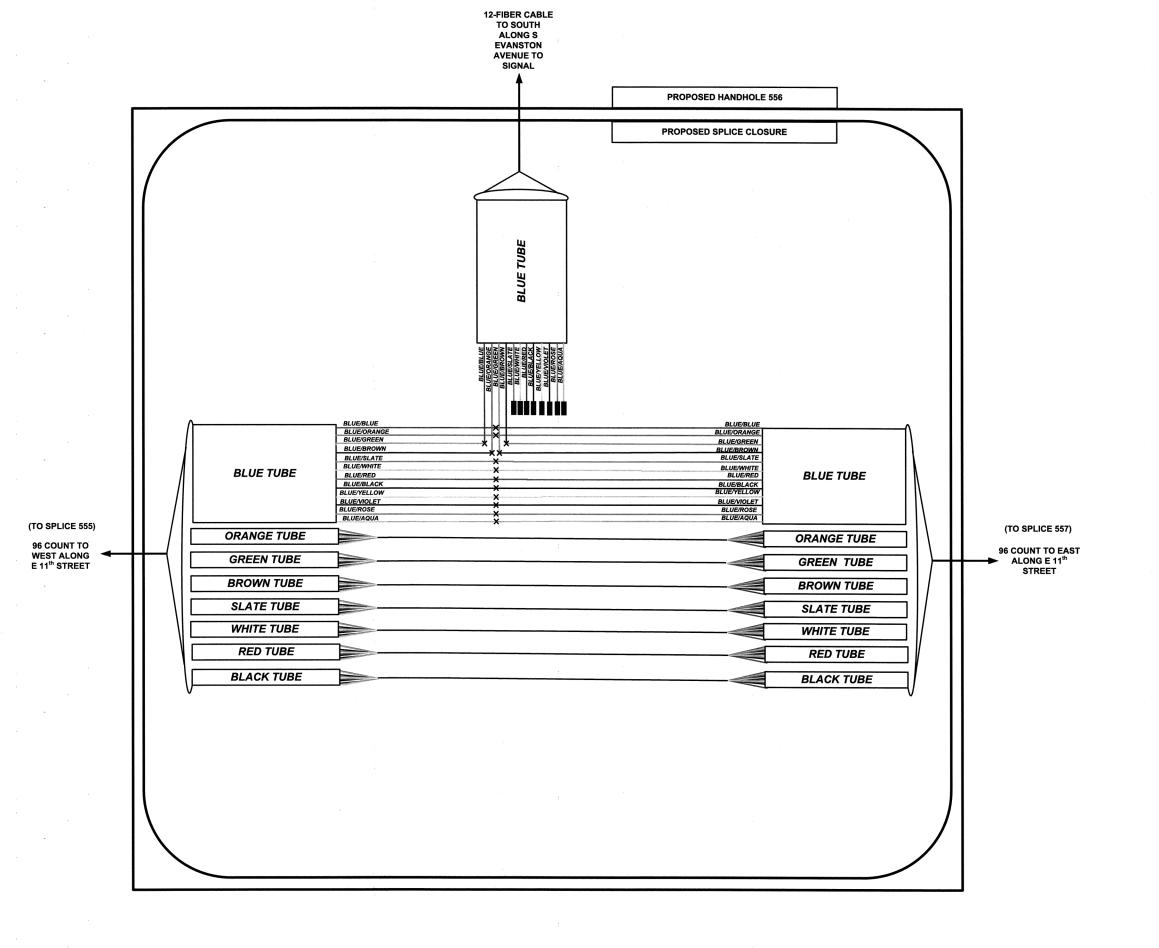
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VISIO FILENAME

Corridor B.vsd

Peoria Avenue and E 11th Street LAST UPDATE DATE:

June 13, 2022

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E238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

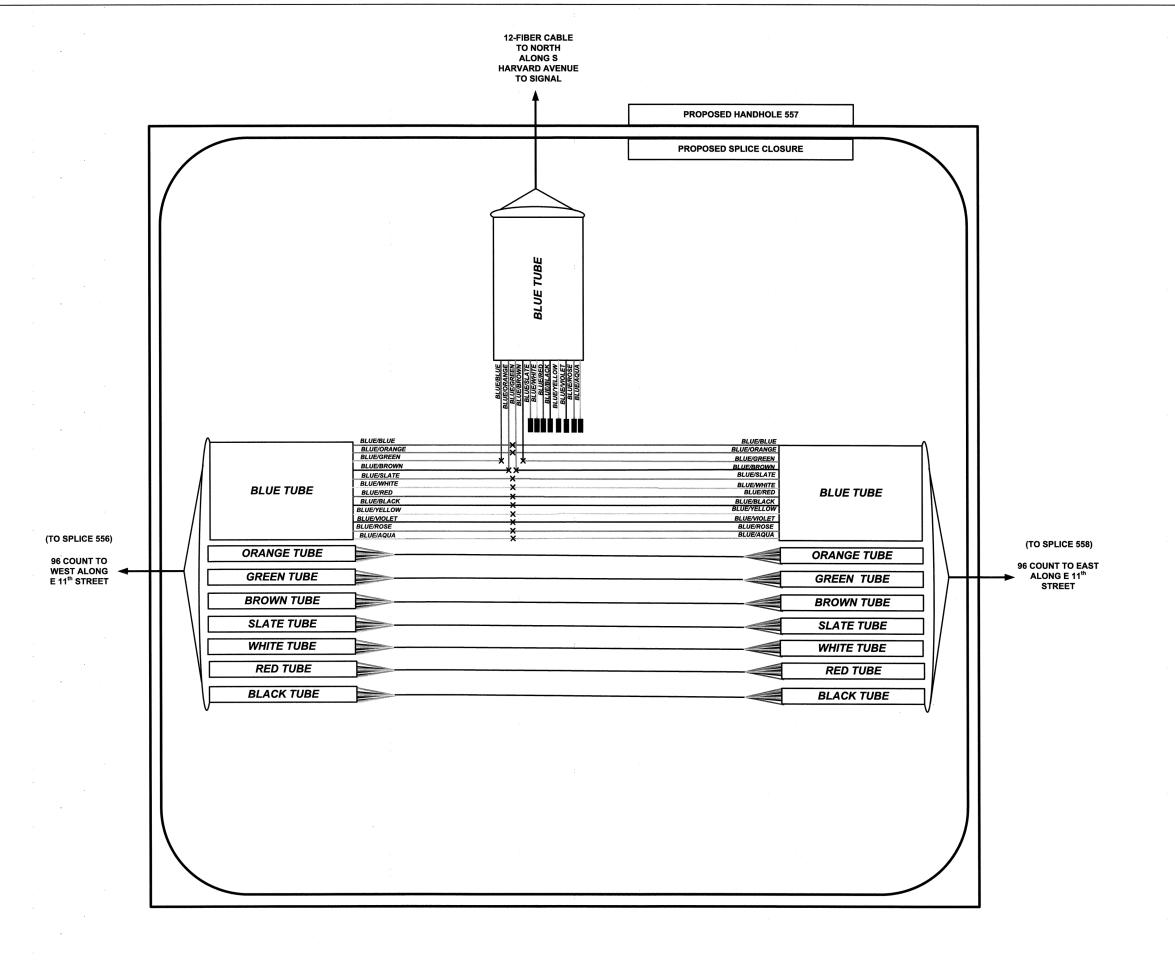
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VISIO FILENAME

June 13, 2022

Peoria Avenue and E 11th Stree

238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED

PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

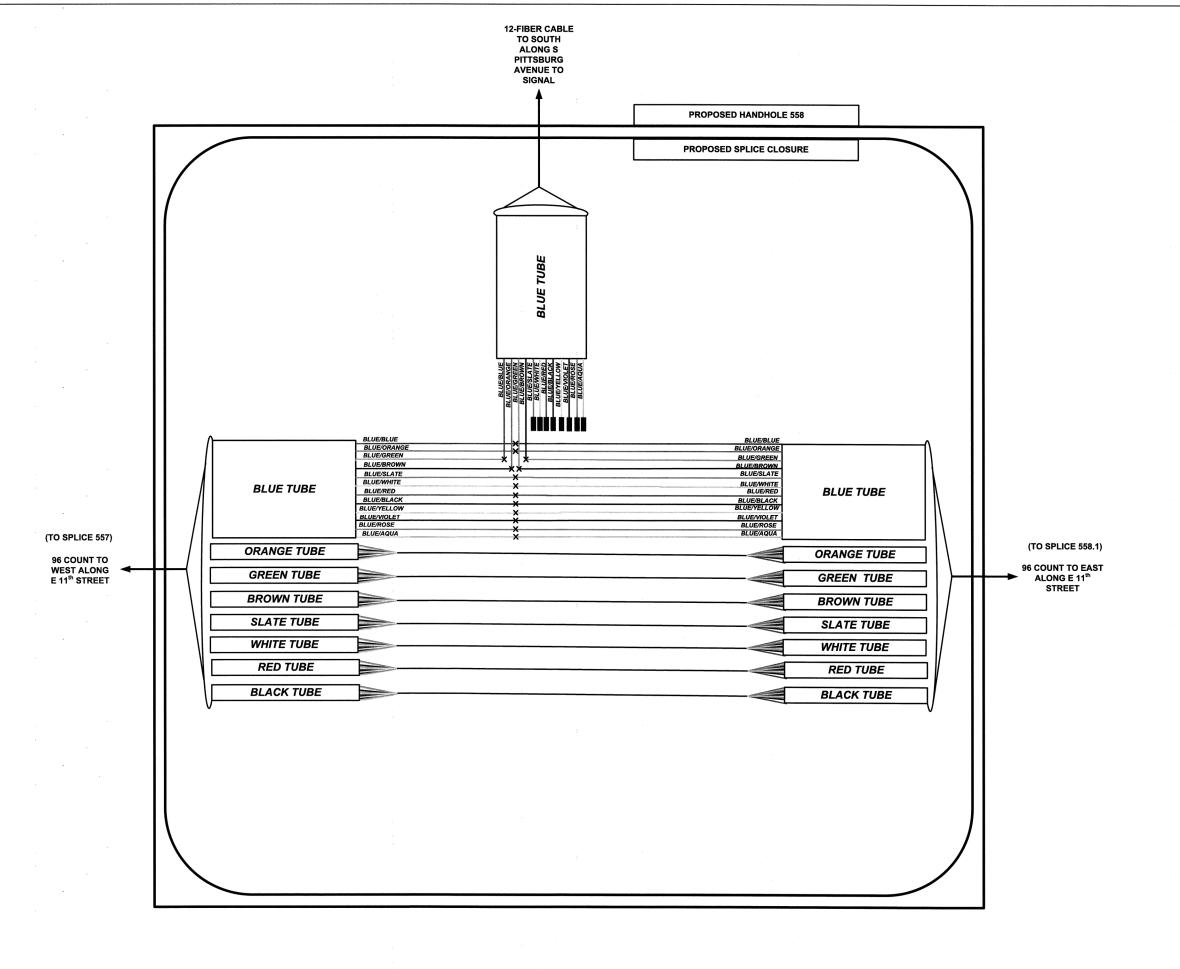
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VISIO FILENAME

Peoria Avenue and E 11th Street

DEVICE IDENTIFIER E238.2D



CCTV CAMERA

LAST UPDATE DATE:

June 13, 2022



EXISTING CCTV CAMERA



REAL TIME **ARRIVAL SIGN**



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT **COILED IN SPLICE TRAY**



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE

EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR

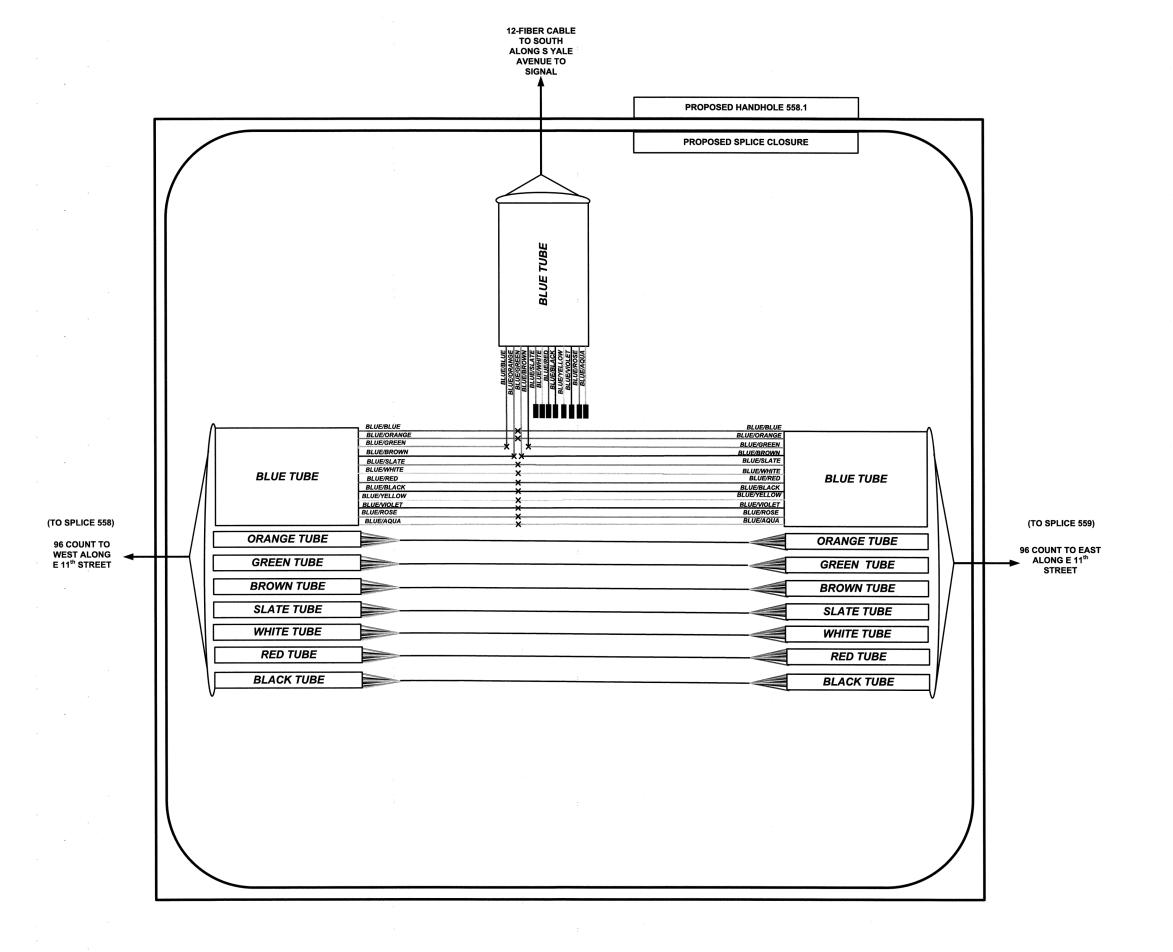
CABLES, DEVICES, OR ENCLOSURES.

FIBER OPTIC CABLE NOTE: DASHED LINES DENOTE EXISTING

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E238.2D DEVICE IDENTIFIER

VISIO FILENAME

Corridor B.vsd

Peoria Avenue and E 11th Stree



CCTV CAMERA

LAST UPDATE DATE:

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EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL SIGN



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

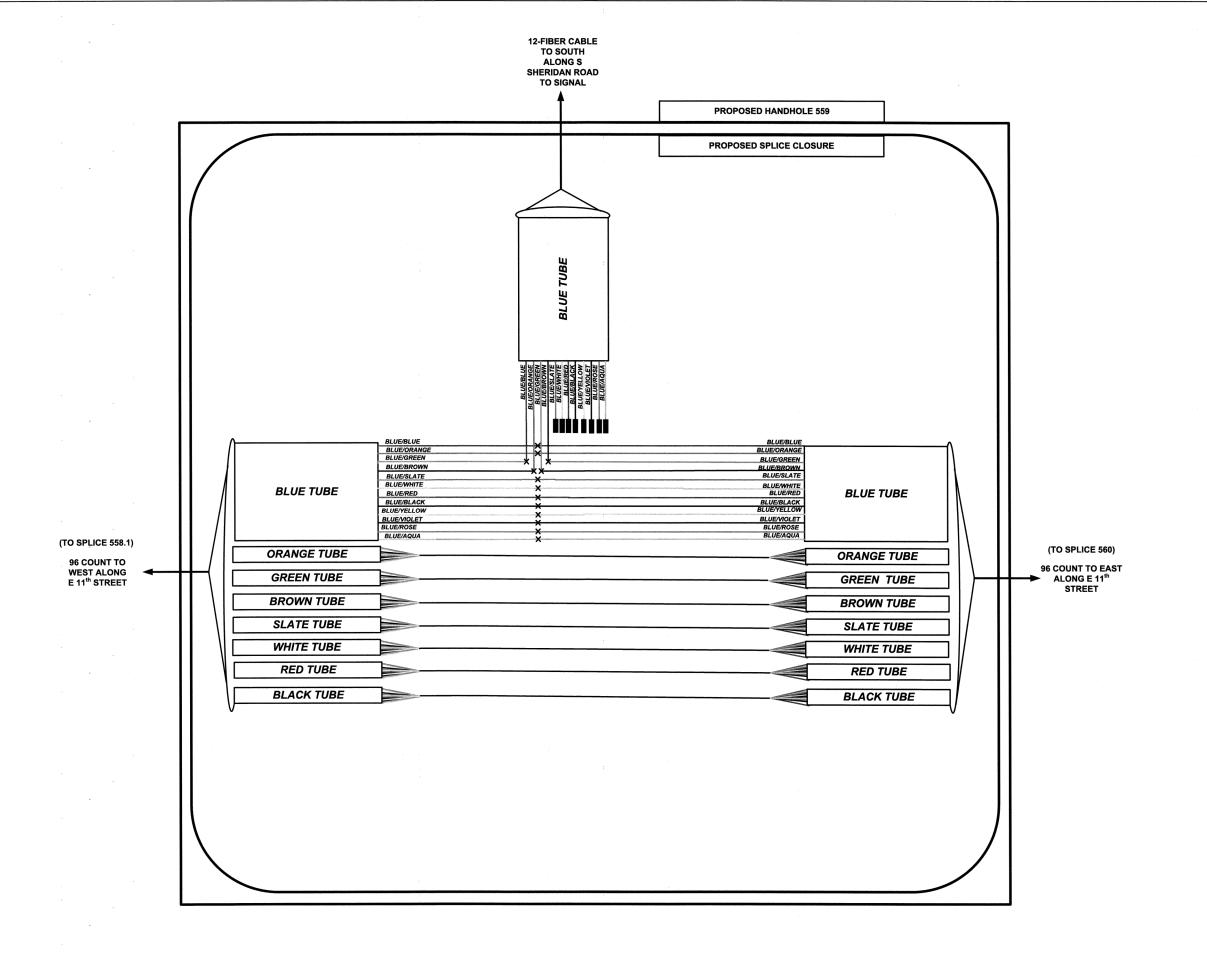
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 OTHER SPLICES.







ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET NO.
E 11th Street Corridor C.vsd June 13, 2022 80

KEY

E238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



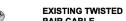
FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



PAIR CABLE

EXISTING FIBER OR

FIBER OPTIC CABLE

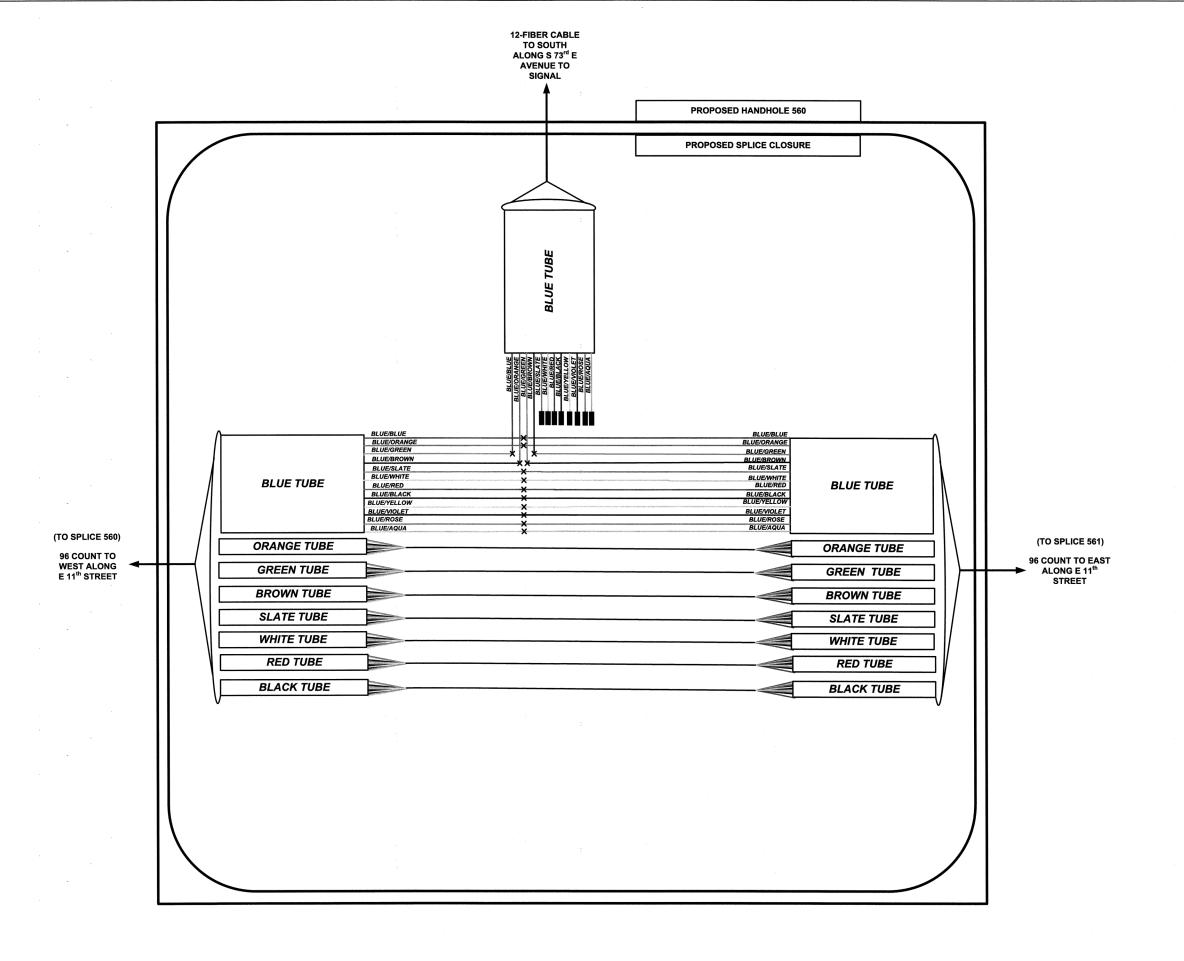
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ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET NO.

E 11th Street Corridor C.vsd June 13, 2022 81

KEY

E238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



BARE FIBER LEFT



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



PAIR CABLE

EXISTING FIBER OR

FIBER OPTIC CABLE

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

NOTES

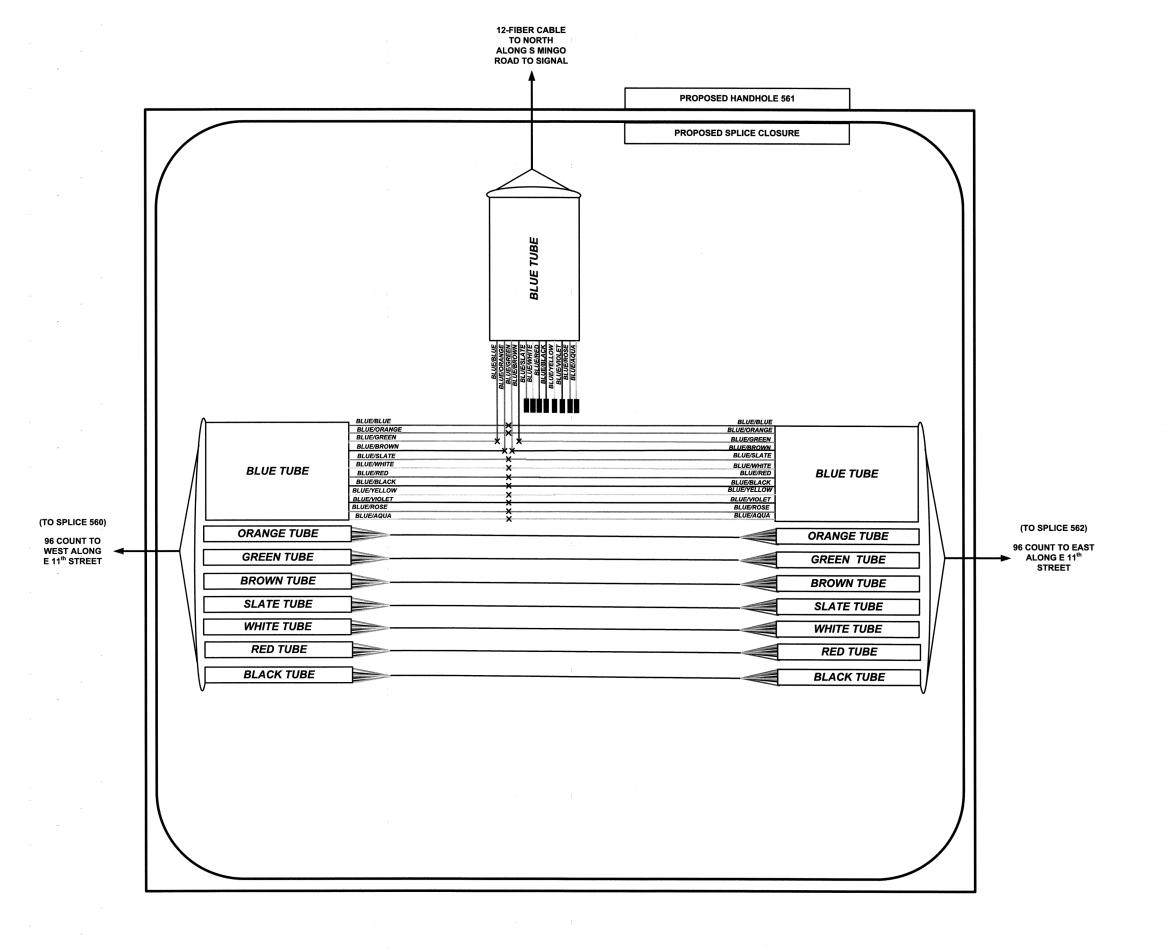
- 1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB. 2. NO INTERMEDIATE SPLICES
- ALLOWED.

OTHER SPLICES.

ALL SPLICES SHALL BE FUSION SPLICES.
 WHEN SPLICING UNDERGROUND, ONLY
 TUBES CONTAINING FIBERS TO BE
 SPLICED SHALL BE CUT. ALL OTHER
 TUBES SHALL RUN UN-CUT BETWEEN







Corridor C.vsd

E238.2D DEVICE IDENTIFIER



E 11th Street

CCTV CAMERA

June 13, 2022



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL

BARE FIBER LEFT



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

CABLES, DEVICES, OR ENCLOSURES.

EXISTING FIBER OR FIBER OPTIC CABLE

NOTE: DASHED LINES DENOTE EXISTING

IOTES

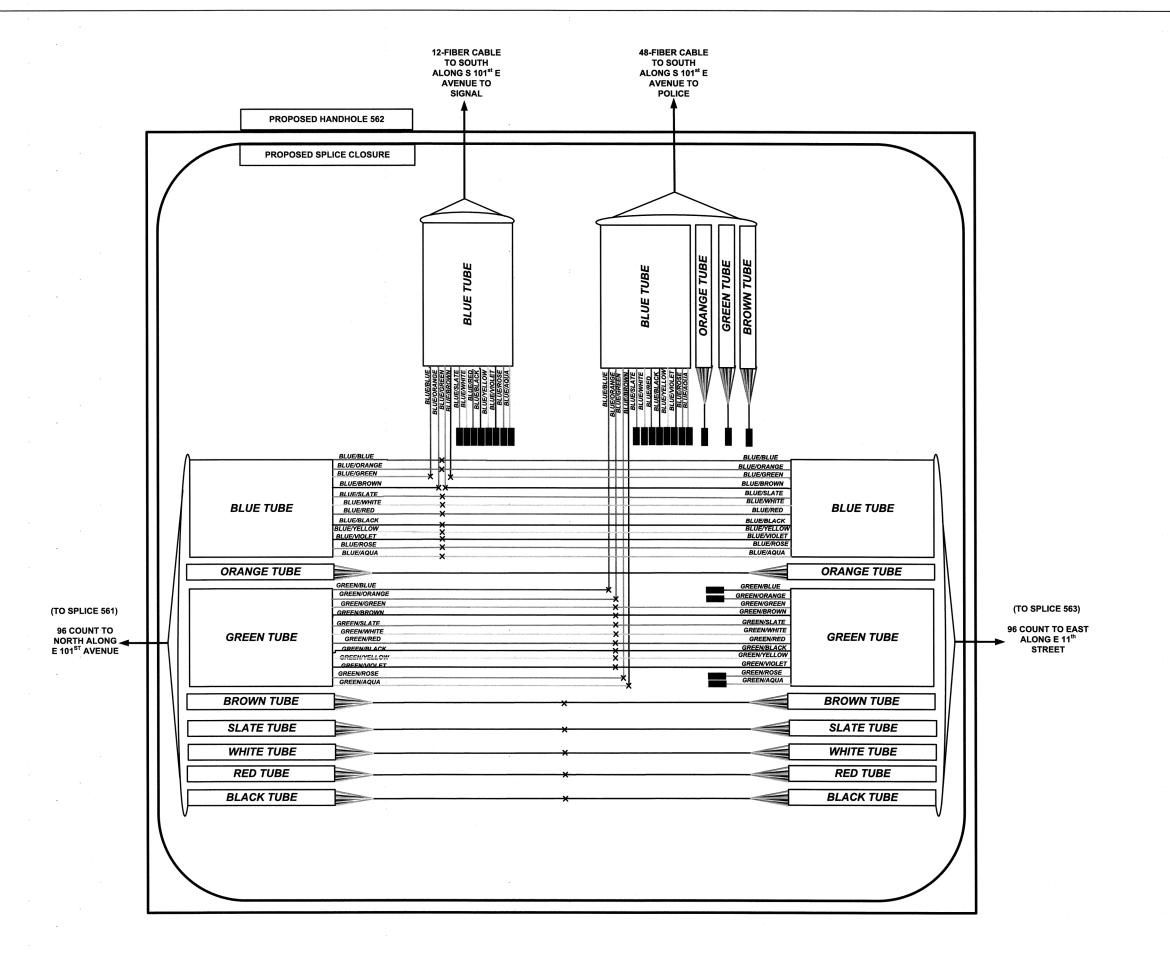
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VISIO FILENAME

Corridor C.vsd

E 11th Street

E238.2D

DEVICE IDENTIFIER

LAST UPDATE DATE:

June 13, 2022

83



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL
BARE FIBER LEFT



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

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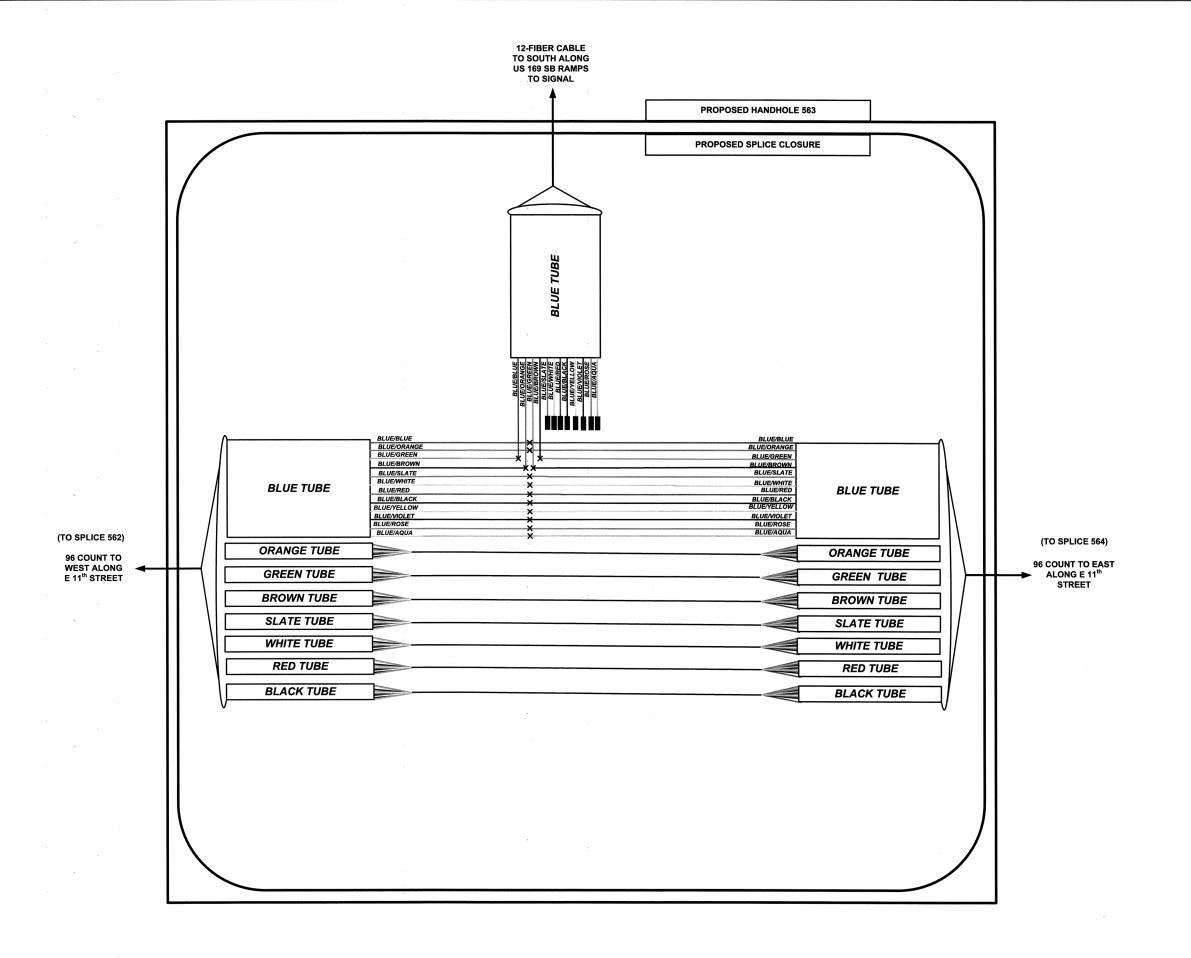
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LAST UPDATE DATE: VISIO FILENAME Corridor C.vsd June 13, 2022

KEY

E238.2D **DEVICE IDENTIFIER**



CCTV CAMERA



EXISTING **CCTV CAMERA**



REAL TIME **ARRIVAL SIGN**



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

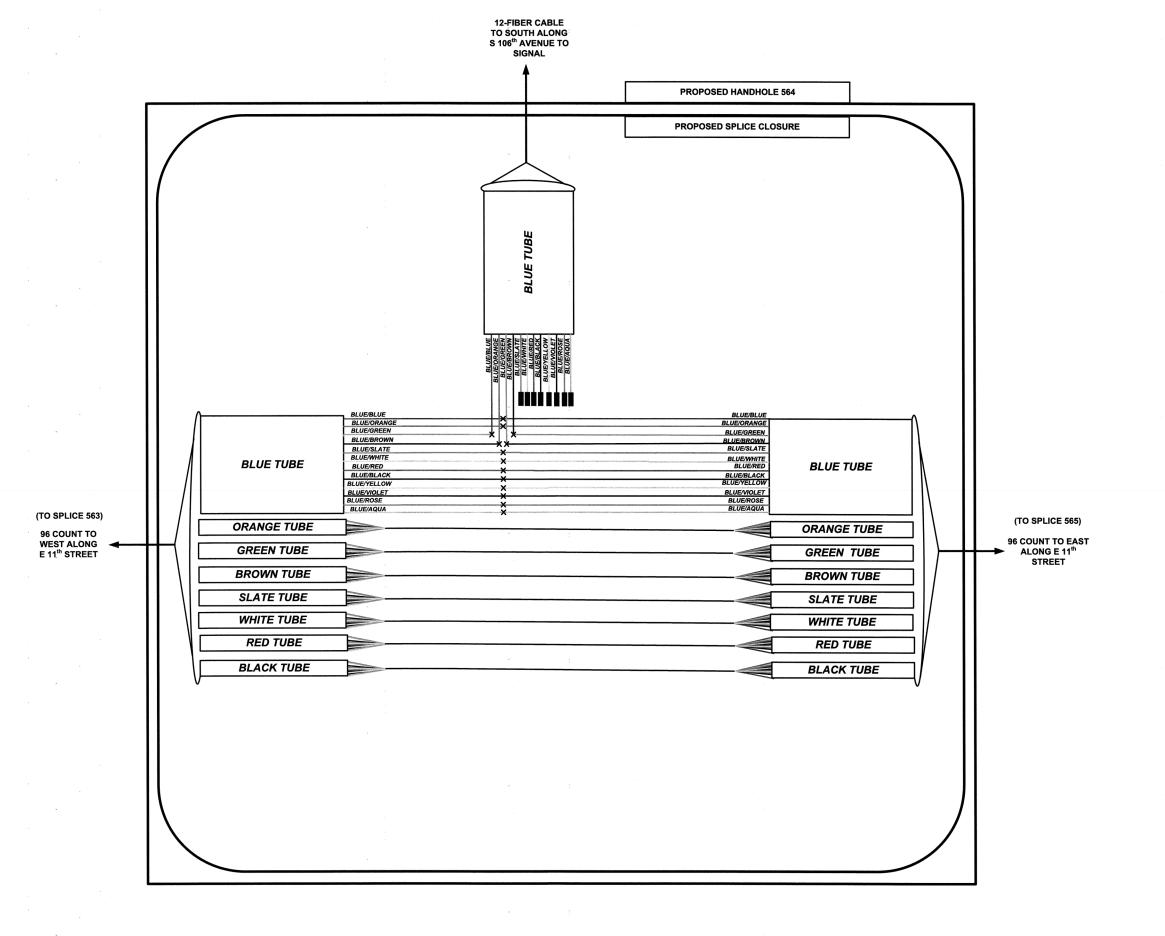
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VISIO FILENAME

Corridor C.vsd

E 11th Street

E238.2D DEVICE IDENTIFIER



CCTV CAMERA

LAST UPDATE DATE:

June 13, 2022

SHEET NO

85



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL
BARE FIBER LEFT



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

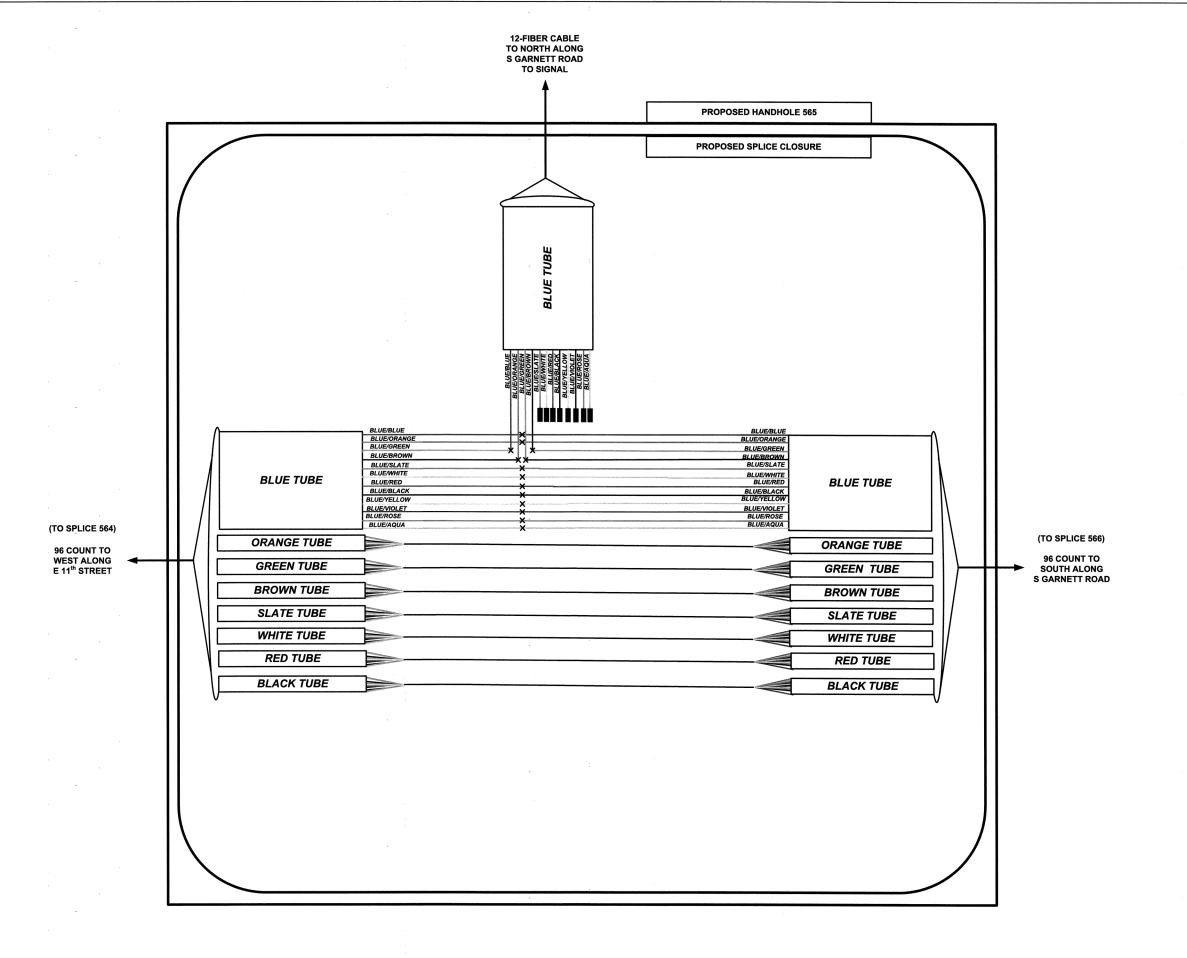
EXISTING FIBER OR FIBER OPTIC CABLE

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DEVICE IDENTIFIER E238.2D

VISIO FILENAME

Corridor C.vsd

LAST UPDATE DATE:

June 13, 2022



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME **ARRIVAL SIGN**



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER FIBER OPTIC PIGTAIL



BARE FIBER LEFT



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

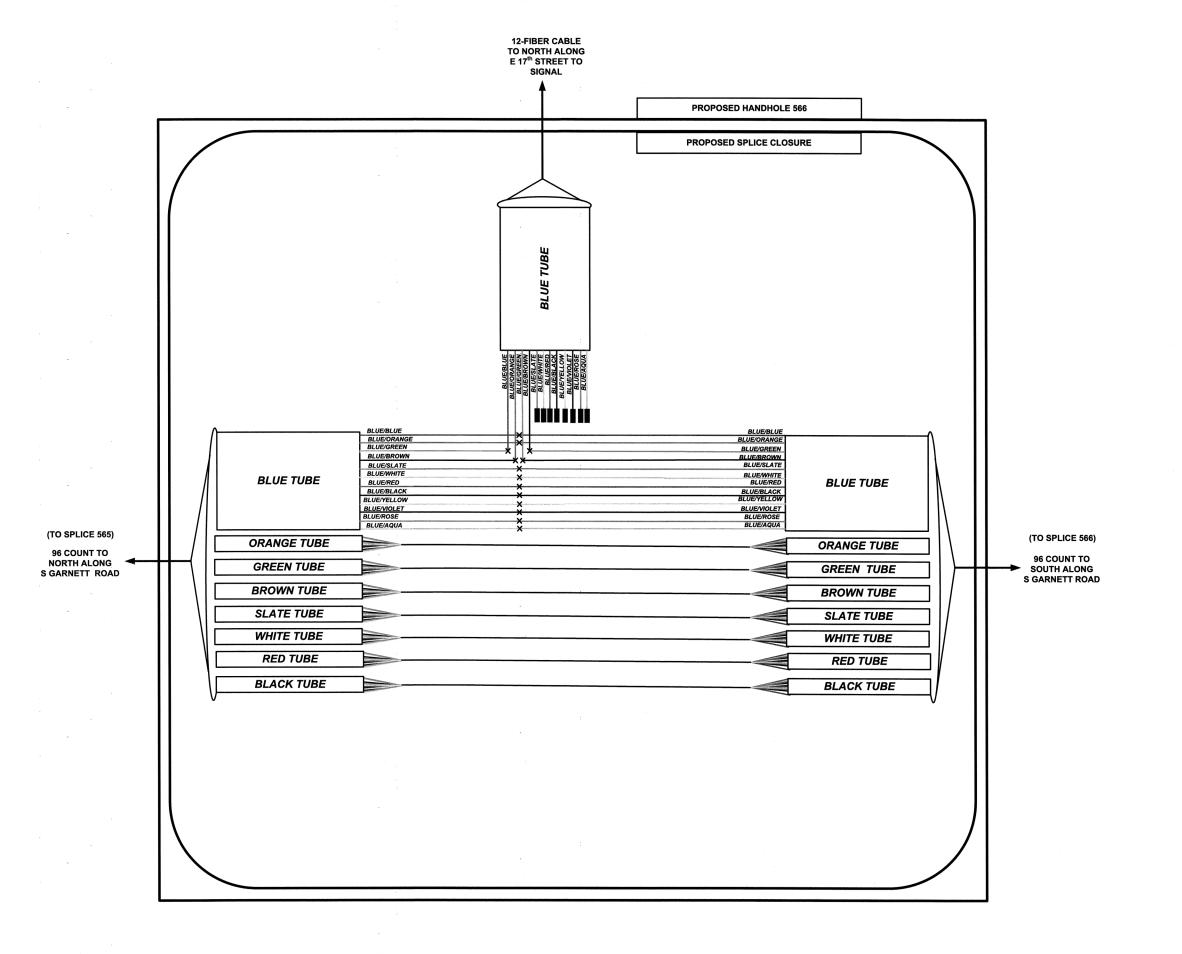
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ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET I
E 11th Street Corridor C.vsd June 13, 2022 87

KEY

E238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL

BARE FIBER LEFT



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

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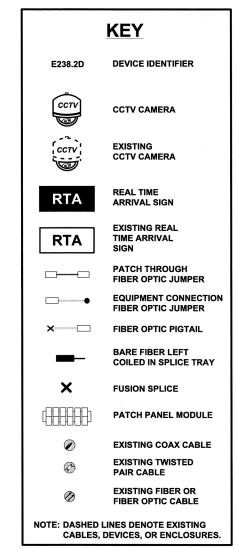




ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET NO.

E 11th Street Corridor C.vsd June 13, 2022 88

BEFORE SPLICING FIBER, VERIFY FINAL SPLICE DETAILS WITH GARY CUMMINS WITH CITY OF TULSA.

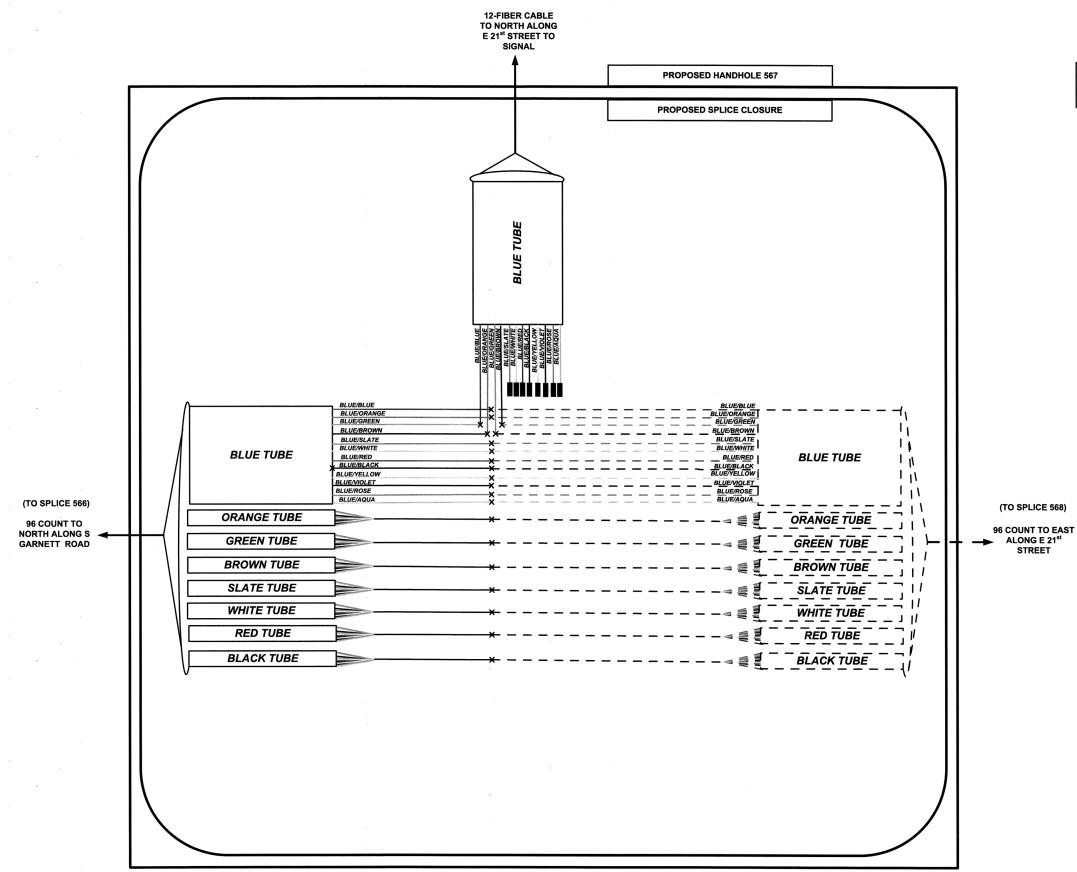


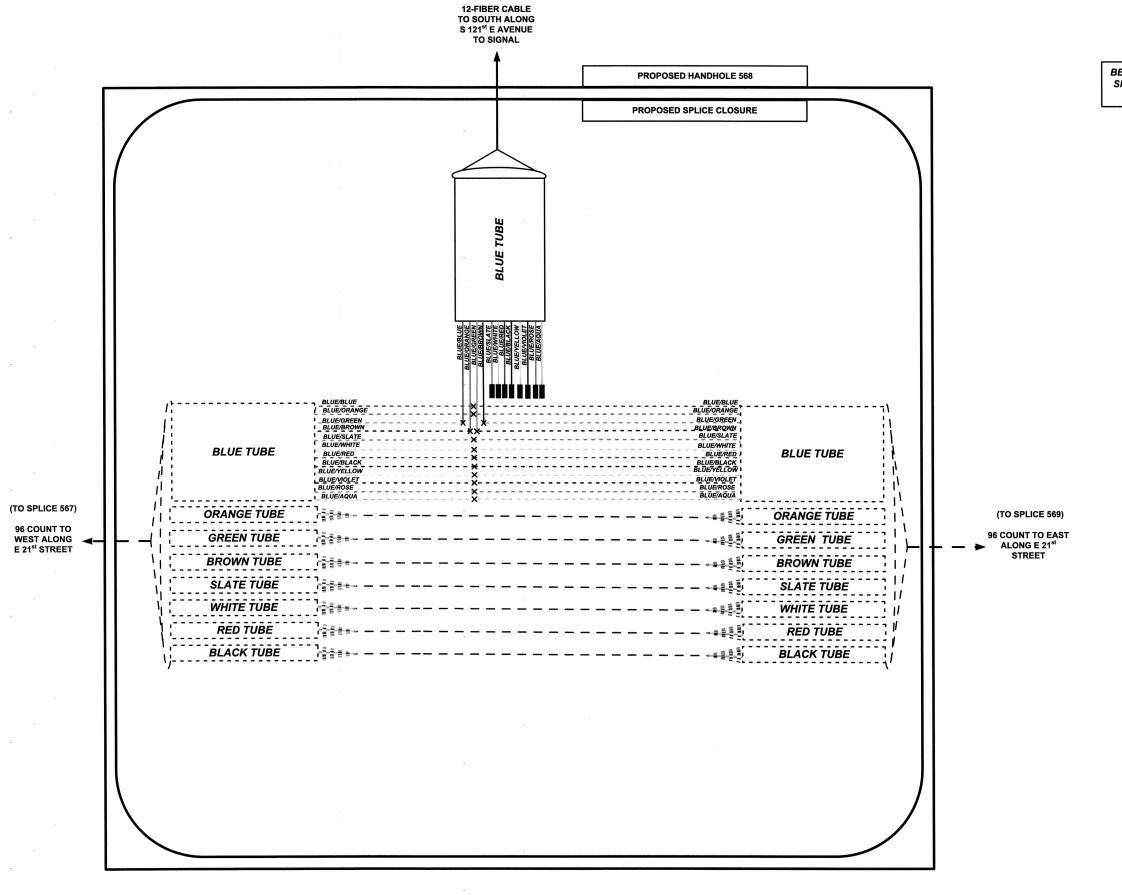
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ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET NO E 11th Street Corridor C.vsd June 13, 2022 89

BEFORE SPLICING FIBER, VERIFY FINAL SPLICE DETAILS WITH GARY CUMMINS WITH CITY OF TULSA.

KEY

E238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE

(2)

EXISTING TWISTED PAIR CABLE

FIBER OPTIC CABLE

EXISTING FIBER OR

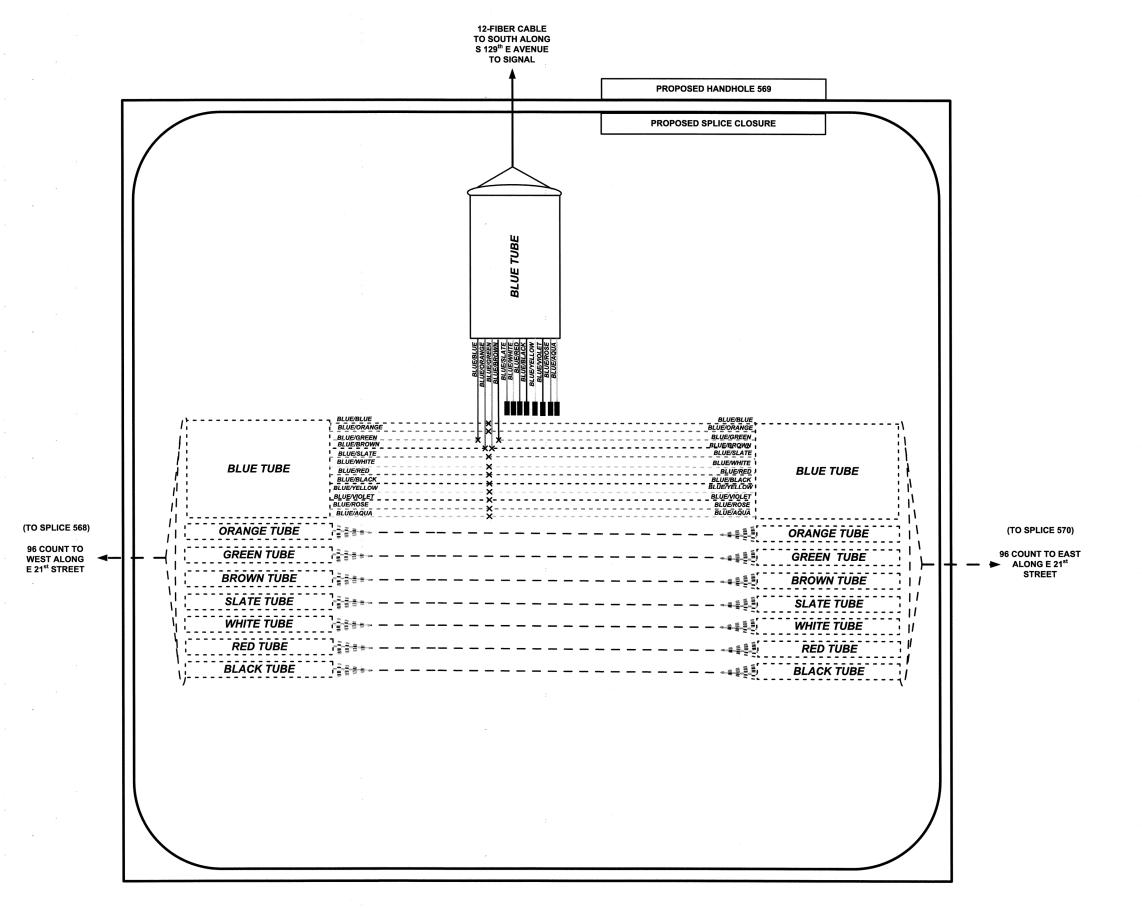
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ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET N

E 11th Street Corridor C.vsd June 13, 2022 90

BEFORE SPLICING FIBER, VERIFY FINAL SPLICE DETAILS WITH GARY CUMMINS WITH CITY OF TULSA.

KEY

E238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

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12-FIBER CABLE TO SOUTH ALONG S 137th E AVENUE TO SIGNAL **PROPOSED HANDHOLE 570** PROPOSED SPLICE CLOSURE BLUE/BLUE BLUE/ORANGE BLUE/GREEN BLUE/BROWN BLUE/SLATE BLUE/WHITE **BLUE TUBE BLUE TUBE** (TO SPLICE 569) **ORANGE TUBE** ORANGE TUBE (TO SPLICE 571) 96 COUNT TO GREEN TUBE 96 COUNT TO EAST

ALONG E 21st GREEN TUBE WEST ALONG E 21st STREET STREET BROWN TUBE BROWN TUBE SLATE TUBE SLATE TUBE WHITE TUBE WHITE TUBE RED TUBE RED TUBE BLACK TUBE BLACK TUBE

ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET NO.

E 11th Street Corridor C.vsd June 13, 2022 91

BEFORE SPLICING FIBER, VERIFY FINAL SPLICE DETAILS WITH GARY CUMMINS WITH CITY OF TULSA.

KEY

E238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL SIGN



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



PAIR CABLE

EXISTING FIBER OR

CABLES, DEVICES, OR ENCLOSURES.

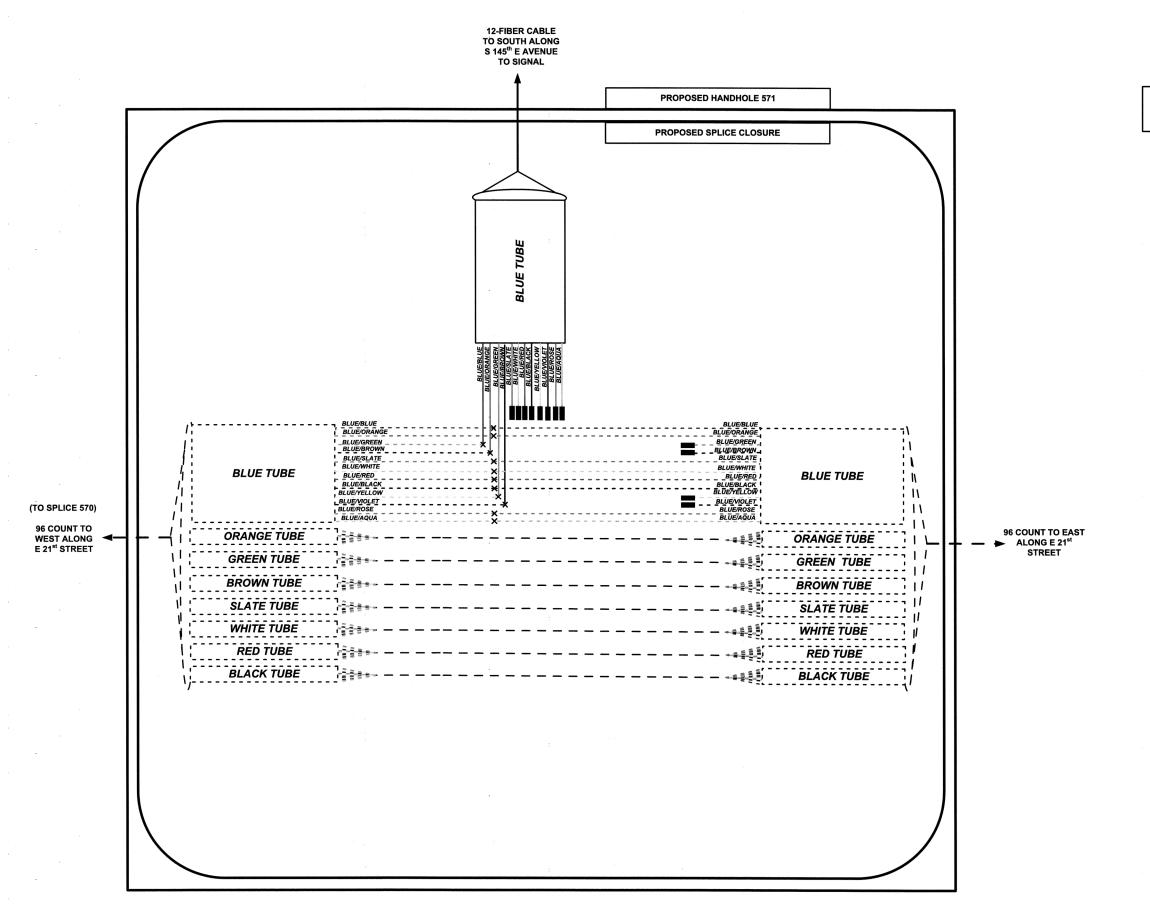
FIBER OPTIC CABLE

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ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET NO.
E 11th Street Corridor C.vsd June 13, 2022 92

BEFORE SPLICING FIBER, VERIFY FINAL SPLICE DETAILS WITH GARY CUMMINS WITH CITY OF TULSA.

KEY

E238.2D DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL
BARE FIBER LEFT



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR FIBER OPTIC CABLE

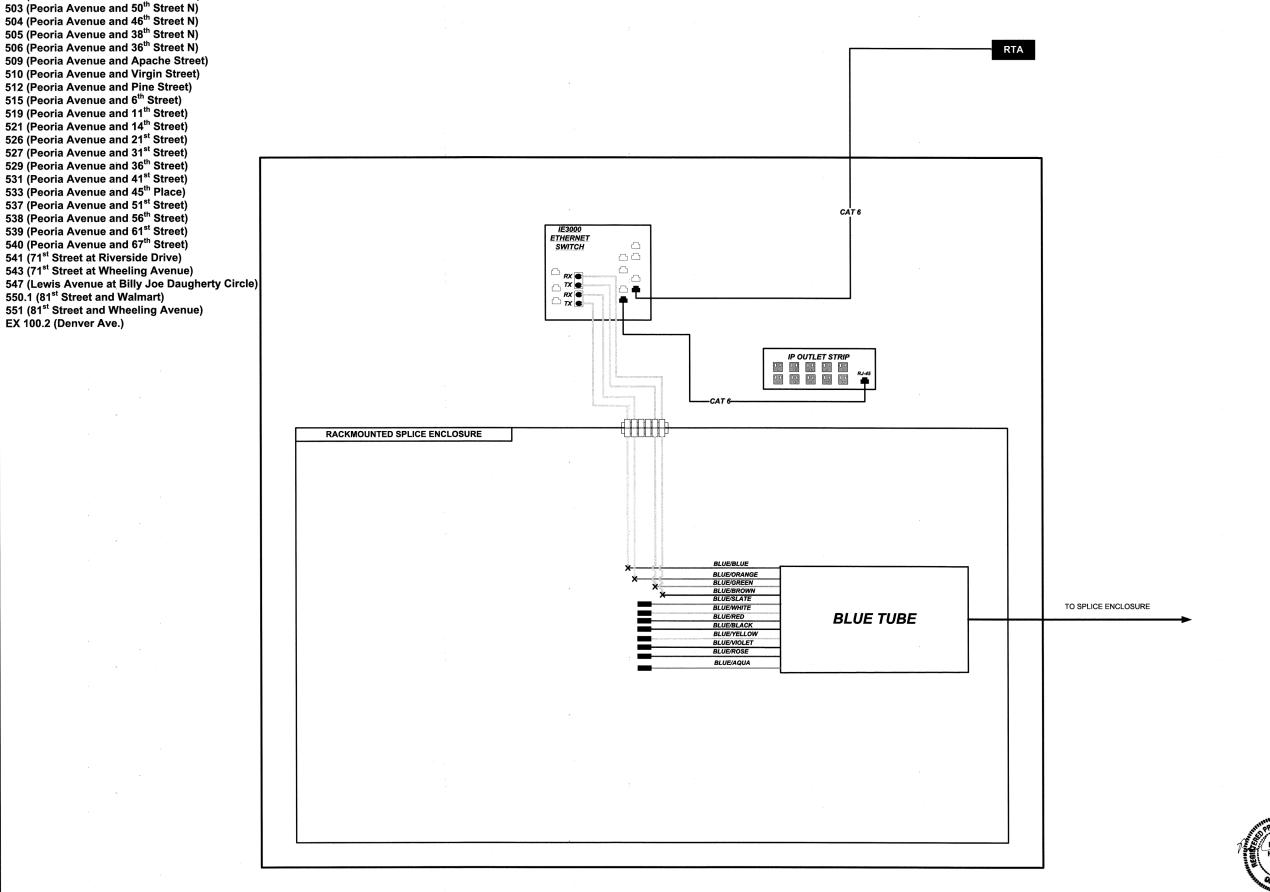
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List of Applicable Splices
501 (Peoria Avenue and 52nd Street N)

KEY

238.2D DEVICE IDENTIFIER

Corridor C.vsd



CCTV CAMERA

93

June 13, 2022



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL SIGN



FIBER OPTIC JUMPER
EQUIPMENT CONNECTION

PATCH THROUGH



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY





FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

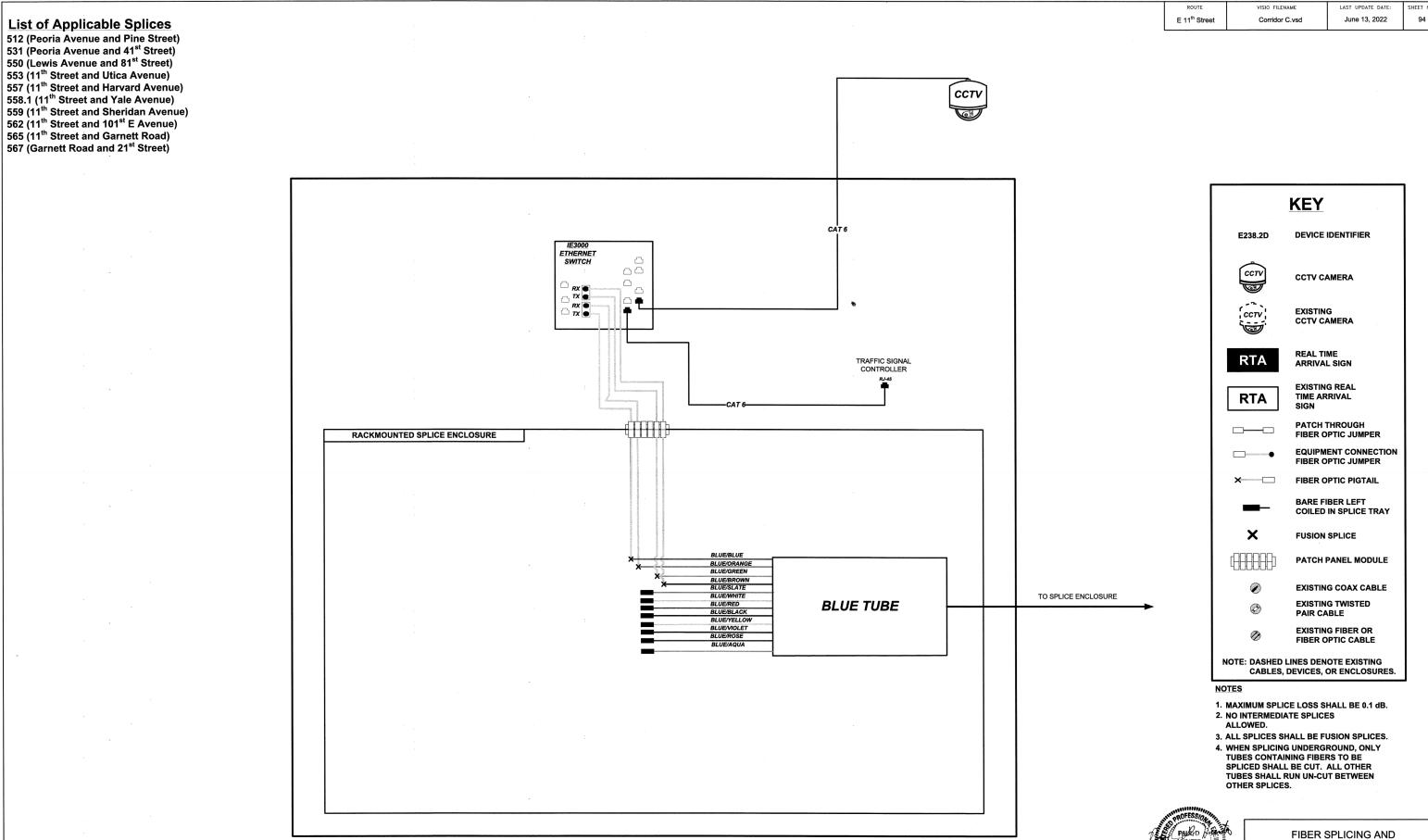
EXISTING FIBER OR FIBER OPTIC CABLE

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CONNECTION DETAIL

TUISA

A New Kind of Energy

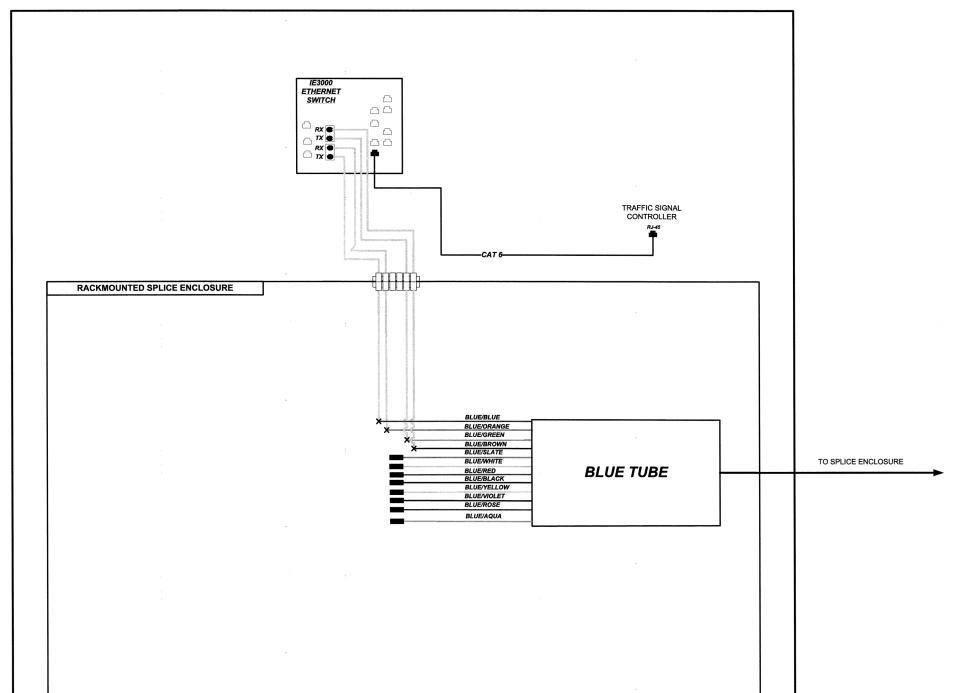
NOT TO SCALE

List of Applicable Splices 503 (Peoria Avenue and 50th Street N) 504 (Peoria Avenue and 46th Street N) 505 (Peoria Avenue and 38th Street N) 506 (Peoria Avenue and 36th Street N) 509 (Peoria Avenue and Apache Street) 510 (Peoria Avenue and Virgin Street) 515 (Peoria Avenue and 6th Street) 519 (Peoria Avenue and 11th Street) 521 (Peoria Avenue and 14th Street) 525 (Midland Valley Trail and 21st Street) 526 (Peoria Avenue and 21st Street) 527 (Peoria Avenue and 31st Street) 529 (Peoria Avenue and 36th Street) 533 (Peoria Avenue and 45th Place) 537 (Peoria Avenue and 51st Street) 538 (Peoria Avenue and 56th Street) 539 (Peoria Avenue and 61st Street) 540.1 (Peoria Avenue and Riverside Drive) 541 (71st Street and Riverside Drive) 542 (71st Street and Trenton Avenue) 543 (71st Street and Wheeling Avenue) 545 (71st Street and Lewis Avenue) 549 (Lewis Avenue and 78th Street) 552 (12th Street and Utica Avenue) 554 (11th Street and Lewis Avenue) 555 (11th Street and Delaware Avenue) 556 (11th Street and Evanston Avenue) 558 (11th Street and Pittsburg Avenue) 560 (11th Street and 73rd E Avenue) 561 (11th Street and Mingo Road) 563 (11th Street and US 169 SB) 564 (11th Street and US 169 NB) 566 (Garnett Road and 17th Street)

568 (21st Street and 121st E Avenue)

569 (21st Street and 129th E Avenue)

570 (21st Street and 137th E Avenue) 571 (21st Street and 145 E Avenue)



KEY

Corridor C.vsd

DEVICE IDENTIFIER

LAST UPDATE DATE:

June 13, 2022

95



E 11th Street

CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN

RTA

EXISTING REAL TIME ARRIVAL

PATCH THROUGH



FIBER OPTIC JUMPER **EQUIPMENT CONNECTION** FIBER OPTIC JUMPER



FIBER OPTIC PIGTAIL



BARE FIBER LEFT COILED IN SPLICE TRAY



FUSION SPLICE





PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

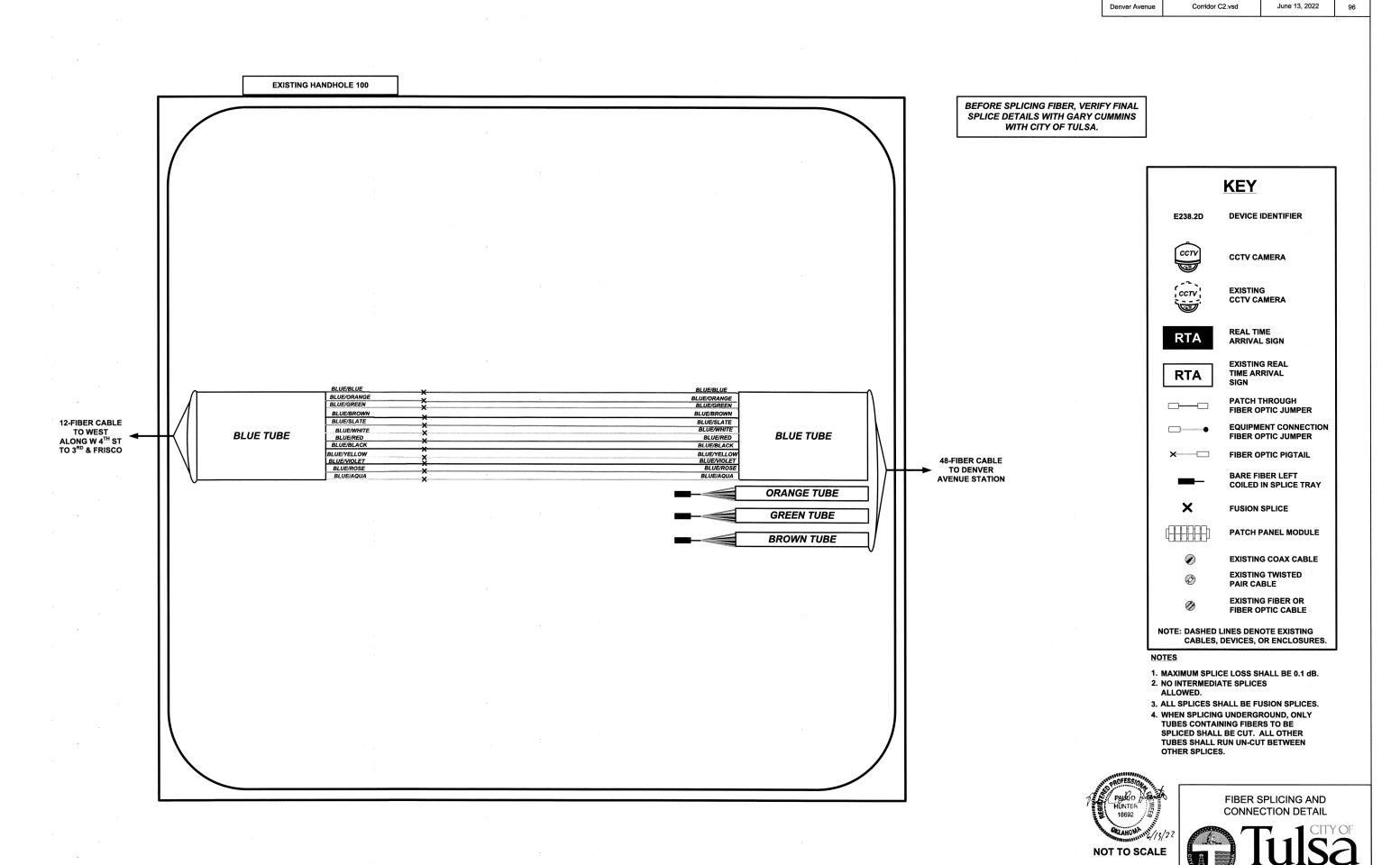
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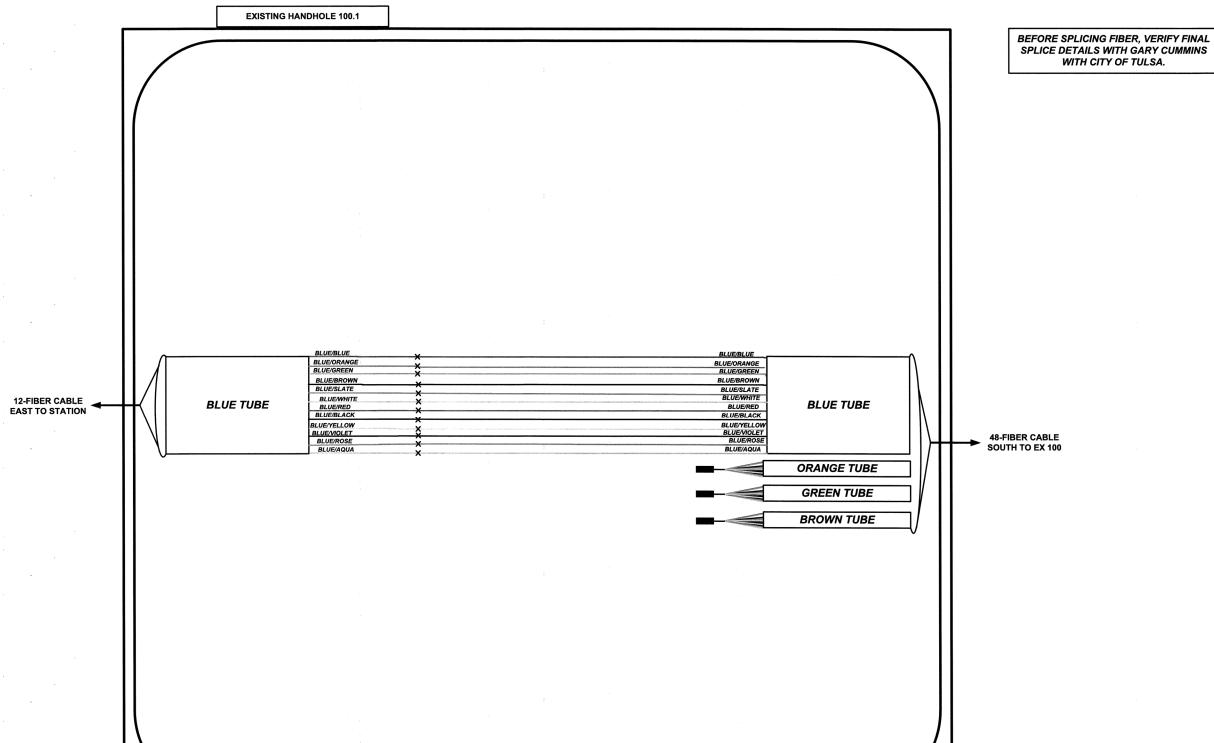




VISIO FILENAME

LAST UPDATE DATE:

VISIO FILENAME LAST UPDATE DATE: Corridor C2.vsd June 13, 2022 97



SPLICE DETAILS WITH GARY CUMMINS

KEY

E238.2D

DEVICE IDENTIFIER



CCTV CAMERA



EXISTING CCTV CAMERA



REAL TIME ARRIVAL SIGN



EXISTING REAL TIME ARRIVAL



PATCH THROUGH FIBER OPTIC JUMPER



EQUIPMENT CONNECTION FIBER OPTIC JUMPER



BARE FIBER LEFT



COILED IN SPLICE TRAY



FUSION SPLICE



PATCH PANEL MODULE



EXISTING COAX CABLE



EXISTING TWISTED PAIR CABLE

EXISTING FIBER OR

FIBER OPTIC CABLE

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.

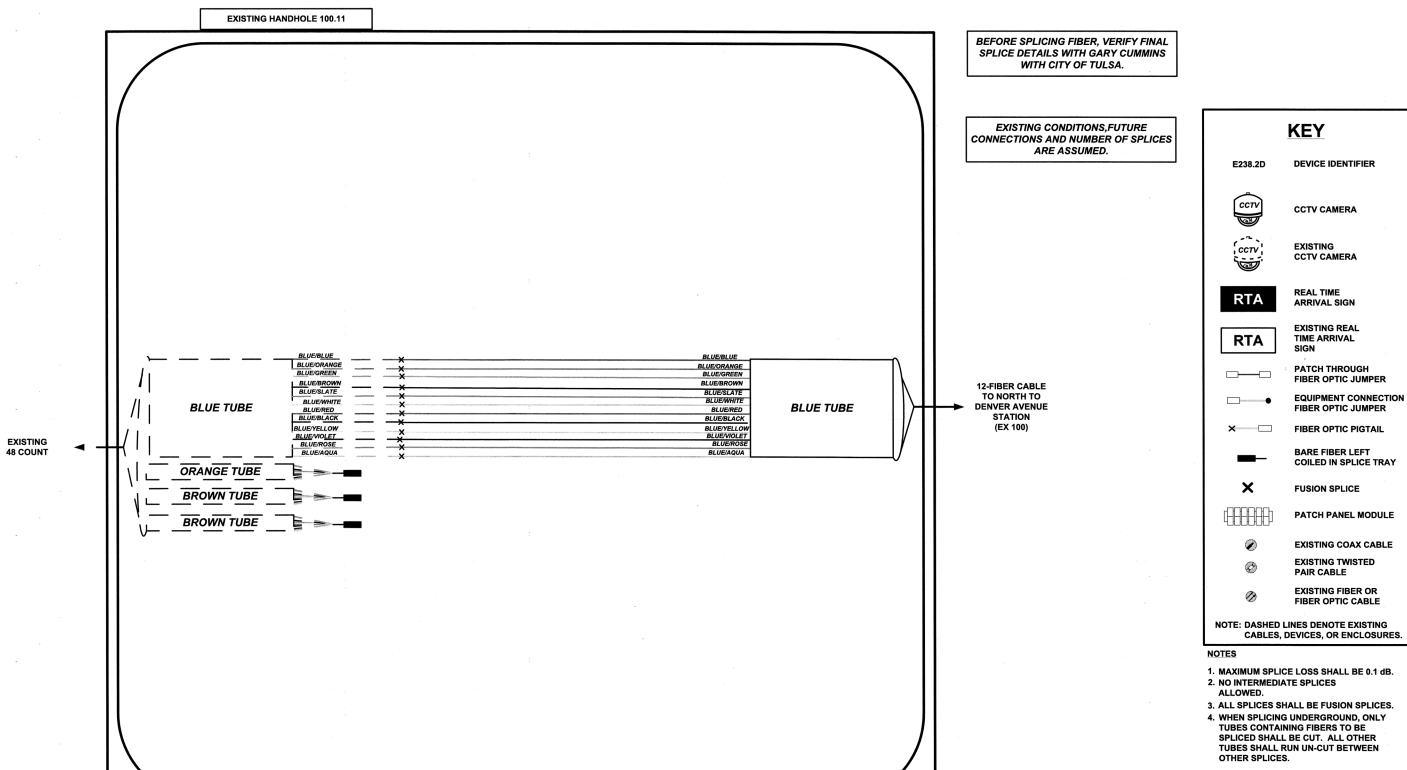
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ROUTE VISIO FILENAME LAST UPDATE DATE: SHEET NO.

Denver Avenue Corridor C2.vsd June 13, 2022 98





NOT TO SCALE

18692 CONNECTION DETAIL



FIBER SPLICING AND