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TIP PROJECT: I-5973

INDEX OF SHEETS

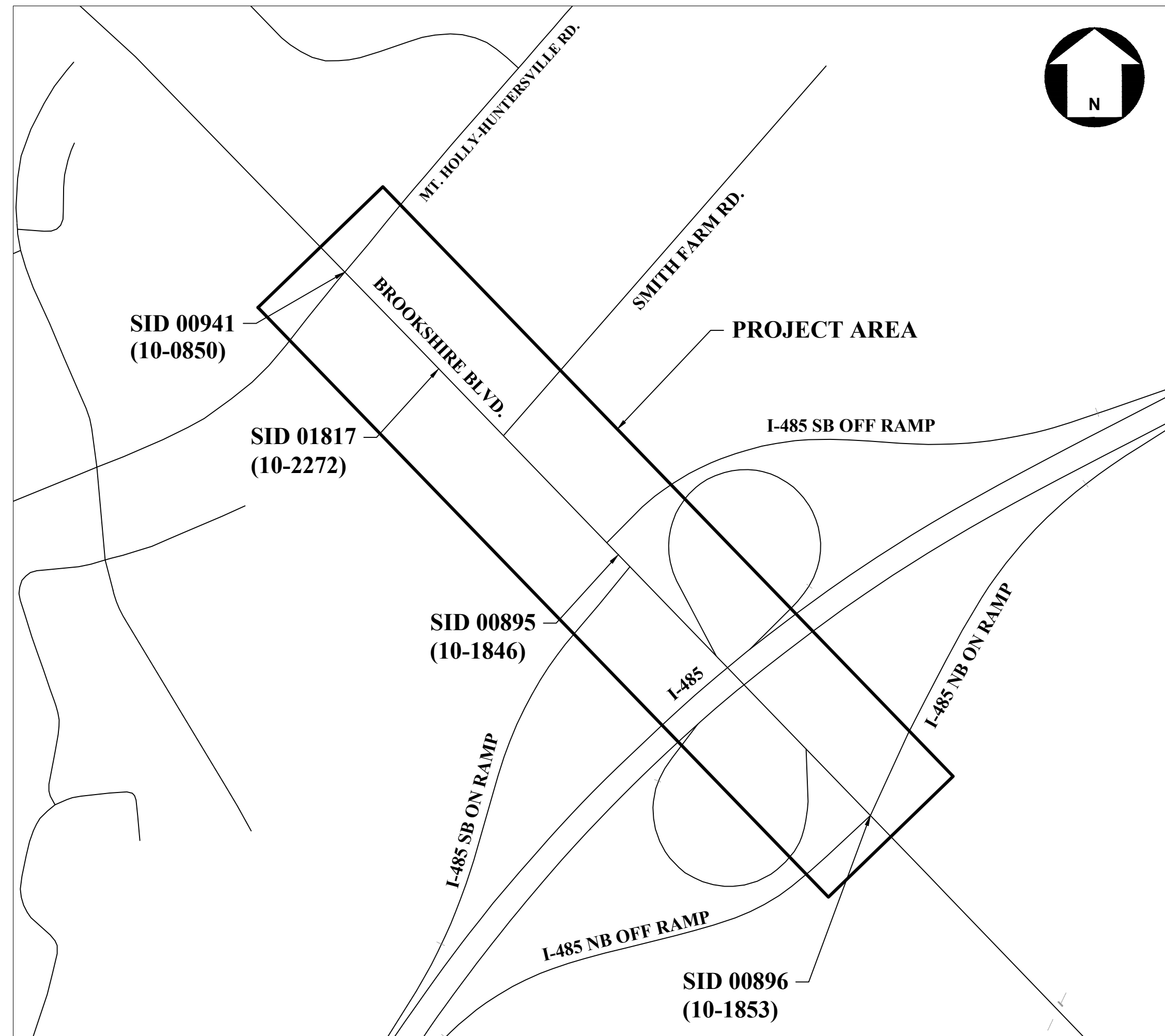
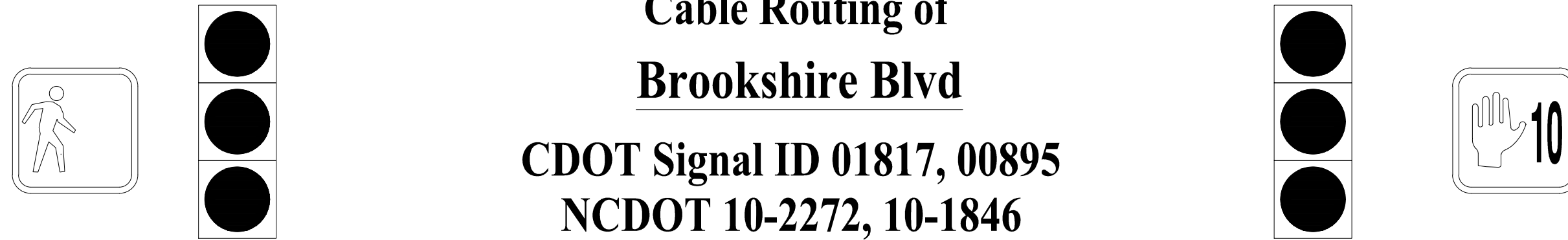
Cover Sheet.....	CR1
General Notes and Details.....	CR2A-CR2F
Splice Detail	CR3A-CR3D
Quantities Tabulation.....	CR3E
Cable Routing	CR4-CR9

TOTAL SHEETS 18



**Cable Routing of
Brookshire Blvd**

**CDOT Signal ID 01817, 00895
NCDOT 10-2272, 10-1846**



VICINITY MAP (NTS)

PROJECT REFERENCE NO.	I-5973
SHEET NO.	SCP1

**CONVENTIONAL SYMBOLS
LEGEND**

Maintained as R/W Line	---
Existing Structures	---
Railroad Tracks	---
Proposed Edge of Pavement	---
Existing Fence	---
Temporary Construction Easement	---
Sidewalk/Utility Easement	---
Storm Drainage Easement	---
Existing Gas Line	---
Existing Water Line	---
Existing Sanitary Sewer	---
Existing Underground Telecommunications	---
Existing Underground Electric	---
Existing Storm Drainage	---
Existing Guardrail.....	---
Existing Tree	---
Existing Right-of-Way.....	---
Existing Water Meter	---
Existing Water Valve	---
Existing Gas Valve	---
Existing Sanitary Sewer Manhole	---
Existing Storm Drain Manhole	---
Existing Telephone Manhole	---
Existing Electric Manhole	---
Existing Catch Basin	---
Existing Light Pole	---
Existing/Proposed Utility Pole	---
Guy Wire	---
Existing Fire Hydrant	---
Existing Drop Inlet.....	---
Accessible Ramp	---
Tree Protection	---
Silt Fence	---
Proposed Curb & Gutter, Conc. Drive, Sidewalk	---
Proposed Gravel	---
Proposed Pavement Removal	---
Existing/Proposed Camera	---
Existing/Proposed Traffic Control Box	---
Existing/Proposed Hand Hole	---
Existing/Proposed Aerial Splice Enclosure	---
Existing/Proposed Aerial Splice Enclosure w/ Slack.....	---
Proposed Bore Pit	---
Existing/Proposed Aerial Slack Storage	---
Existing Aerial Fiber.....	---
Proposed Aerial Fiber.....	---
Proposed Directional Bore	---
Proposed Trenching	---
Existing Conduit	---
Proposed Underground Fiber Curb Marker	---
Proposed Adhesive Fiber Warning Sign	---
Existing/Proposed Aluminum Camera Pole	---
Existing/Proposed Aluminum Camera Pole	---

CONTRACT: C204658

PLANS PREPARED BY:



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421 Fayetteville Street, Suite 600
Raleigh, NC 27601
919-677-2000

PLAN NOTES

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO CUT EXISTING CONDUITS IN NEW AND EXISTING HANDHOLE FOR 6 INCH STUB UP.
3. ALL UNUSED CONDUITS TO BE CAPPED AND TAPE SEALED. USED CONDUITS TO BE SEALED WITH SEALING COMPOUND (OR DUCT PLUGS).
4. CONDUIT AND FIBER QUANTITIES ARE MEASURED AND LABELED FROM HANDHOLE TO HANDHOLE AND/OR POLE TO POLE AND NOT PER SHEET.

PE SEAL



PROJECT TEAM

DESIGNER:	MC BURKE
PROJECT MANAGER:	SL PHILLIPS
CABLE ROUTING ENGINEER:	IV VANOSDELL



BROOKSHIRE BLVD. @ I-485 INNER RAMP

GENERAL NOTES

- 1. THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT...
2. THE CONTRACTOR IS RESPONSIBLE TO VISIT JOB SITE TO DETERMINE FIELD CONDITIONS...
3. IN ORDER TO MINIMIZE IMPACT TO LANDSCAPING MATERIAL...
4. THE CONTRACTOR SHALL EXERCISE ALL APPROPRIATE SAFETY MEASURES...
5. THE WORK CORRIDOR SHALL BE RESTORED TO PRE-WORK CONDITIONS.
6. ALL CONCRETE GUTTERS SHALL BE MAINTAINED OR RESTORED TO PRE-WORK CONDITIONS.
7. CONTRACTOR SHALL MAKE SURE THAT ALL NECESSARY PROTECTIVE MEASURES ARE TAKEN TO SAFEGUARD EXISTING UTILITIES...
8. ALL ELECTRICAL EQUIPMENT SHALL BE WEATHERPROOF.
9. THE LOCATION OF THE CONDUCTORS, CONDUITS, JUNCTION BOXES, SERVICE POINTS...
10. THE CONTRACTOR SHALL AVOID AND/OR PROTECT ALL TREES AND ROOTS...
11. VEGETATION SHALL BE REMOVED OR CUT BACK AS DIRECTED BY THE CONSTRUCTION ENGINEER...
12. PLACE FIBER OPTIC CURB MARKERS AWAY FROM CURB RETURNS.
13. THE CONTRACTOR SHALL USE DISCRETION IN DETERMINING ACTUAL BORE PIT LOCATIONS...
14. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE...
15. PULLING INSTRUCTIONS FOR POWER CONDUCTORS; CONNECT PULLING DEVICES TO COPPER WIRE...
16. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL...
17. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF CITY-OWNED AND NCDOT-OWNED R/W...
18. AT LOCATIONS NEAR REINFORCED EARTH WALLS AND EXISTING BARRIER WALLS...
19. CONTRACTOR SHALL INSTALL HANDHOLES BEHIND SIDEWALK IF AVAILABLE R/W AS FIRST OPTION...
20. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF NORFOLK SOUTHERN'S NSCE-8 SPECIFICATIONS.
21. PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS...
22. BLASTING NOT PERMITTED.
23. CCTV POLE LOCATIONS MUST BE APPROVED BY CDOT PRIOR TO CONSTRUCTION.
24. RETURN OLD CCTV AND EQUIPMENT TO CDOT ELECTRONICS LAB. CONTACT AT 704-336-3919 TO ARRANGE DELIVERY.

TRAFFIC CONTROL:

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "WORK AREA TRAFFIC CONTROL HANDBOOK" (WATCH) AND THE NCDOT STANDARDS AND SPECIFICATIONS.

TRAFFIC CONTROL WILL NOT BE PAID FOR AS A SEPARATE ITEM, BUT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

GENERAL NOTES

UTILITIES:

UTILITIES ARE ILLUSTRATED FOR INFORMATION PURPOSES ONLY. THE CITY WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF UTILITY LOCATIONS, SIZES, DEPTHS, OR FOR COMPLETENESS OF UTILITY INFORMATION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY AND MEET WITH ALL UTILITY OWNERS, THE CITY UTILITY COORDINATOR AND CITY INSPECTOR WHOSE FACILITIES WILL BE AFFECTED TO DETERMINE UTILITY LOCATIONS...

- FOR UTILITY LOCATES CALL NORTH CAROLINA ONE-CALL @ 1-800-632-4949.
FOR LOCATES OF UTILITIES NOT MEMBERS OF NORTH CAROLINA ONE-CALL CONTACT PROJECT MANAGER & C.E.I.

DRAINAGE STRUCTURES:

GRADES, ELEVATIONS AND LOCATIONS SHOWN ARE APPROXIMATE.

DRIVEWAYS AND SIDEWALKS:

PROPOSED DRIVEWAY ENTRANCE DIMENSIONS ARE FROM EXPANSION JOINT TO EXPANSION JOINT. MATCH REPLACEMENT MATERIALS TO THE EXISTING SURFACE ACCORDINGLY:

- CONCRETE - SIX INCH PORTLAND CEMENT CONCRETE (3600 PSI).
ASPHALT - (COMMERCIAL) TWO INCH SF9.5B COURSE AND FOUR INCH I19.0B INTERMEDIATE COURSE.
GRAVEL - SIX INCH INCIDENTAL STONE

SIDEWALK SHALL BE FOUR INCHES THICK, AND SIX INCHES THICK AT DRIVEWAY CROSSINGS, PER CITY STD. NO. 10.22

CROSS SLOPES ON SIDEWALKS SHALL NOT EXCEED 2.0%

RUNNING SLOPES ALONG SIDEWALKS SHALL NOT EXCEED 5.0%, OR THE ADJACENT ROADWAY SLOPE AS MEASURED AT THE GUTTER PAN, WHICHEVER IS GREATER.

A TURNING SPACE (LANDING) SHALL BE PROVIDED AT ALL LOCATIONS WHERE A PEDESTRIAN MIGHT TURN TO CHANGE DIRECTION OF TRAVEL. THE LANDING SHALL BE A MINIMUM OF 4 FEET BY 4 FEET, UNLESS NOTED BY THE ENGINEER...

A CROSS SLOPE TRANSITION PANEL MAY BE REQUIRED WHERE PROPOSED SIDEWALK MEETS EXISTING SIDEWALK WITH A CROSS SLOPE GREATER THAN 2.0%. THE TRANSITION PANEL SHALL NOT EXCEED 2.0% ON THE SIDE OF THE PROPOSED SIDEWALK AND/OR RAMP...

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR MAY MAKE HIS OWN INVESTIGATION TO DETERMINE SUBSURFACE CONDITIONS.

TREES, SHRUBS, AND HEDGES:

1. THE CONTRACTOR SHALL ALSO PROTECT TREES AND SHRUBS OUTSIDE OF CUT/FILL LINES, IN ADDITION TO THOSE THAT RECEIVE TREES/SHRUB PROTECTION BARRIERS...

2. IN ORDER TO MINIMIZE IMPACT TO LANDSCAPING MATERIAL, EXERCISE CAUTION THROUGH LANDSCAPING LIMITS DURING ALL PHASES OF CONSTRUCTION ACTIVITY...

PLANS:

- 1. AERIAL PHOTOGRAPHY IN THESE PLANS MAY NOT REPRESENT CURRENT CONDITIONS. THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS PRIOR TO BIDDING / CONSTRUCTION.
2. THE BASE MAPPING DEPICTED ON ALL LAYOUT SHEETS WAS OBTAINED FROM EXISTING PLANS PROVIDED BY CDOT AND AERIAL PHOTOGRAPHY. THEREFORE, THE ACCURACY OF THE BASE MAPPING IS NOT THAT OF SURVEYED MAPPING...
3. BASELINES SHOWN ON THE PLANS ARE FOR INFORMATION PURPOSES ONLY AND ARE NOT STAKED IN THE FIELD.
4. THE RIGHT OF WAY DESIGNATIONS SHOWN ON THE PLANS ARE NOT TIED TO A SURVEYED CENTERLINE AND AS SUCH ARE APPROXIMATE.
5. CABINETS AND PULL BOXES ARE DIMENSIONED TO THE CENTER. THE LOCATION OF ALL PROPOSED EQUIPMENT TO BE INSTALLED SHALL BE CONSIDERED TO BE APPROXIMATE AND ADJUSTMENTS MAY BECOME NECESSARY...

GENERAL NOTES

EROSION CONTROL:

THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL DEVICES IN ACCORDANCE WITH THE APPROPRIATE CITY AND STATE EROSION AND SEDIMENT CONTROL ORDINANCES. THE CONTRACTOR SHALL PREVENT STANDING WATER DUE TO CONSTRUCTION...

EROSION CONTROL WILL NOT BE PAID FOR AS A SEPARATE ITEM, BUT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

PAVEMENT DEGRADATION FEE:

CDOT HAS DETERMINED THAT NO PAVEMENT DEGRADATION FEE IS TO BE ASSESSED.

CONDUIT:

- 1. THE FIBER OPTIC CONDUIT NETWORK SHALL BE MAINTAINED AT A CONSTANT HORIZONTAL AND VERTICAL LOCATION.
2. CONDUIT RUN SHALL NOT EXCEED 270 DEGREES OF BENDS BETWEEN HANDHOLES.
3. MINIMUM REQUIRED CONDUIT BURY DEPTHS SHALL BE MAINTAINED WHERE CONFLICTS OCCUR WITH DRAINAGE OR OTHER UTILITIES...
4. ALL NEW UNDERGROUND CONDUIT SHALL BE SEALED AT BOTH ENDS TO PREVENT THE ENTRY OF DUST, DIRT OR MOISTURE.
5. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY...
6. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY DIRECTIONAL BORE OR TRENCHING...
7. THE PLANS SHOW THE GENERAL ROUTE AND LOCATION OF CONDUIT AND EQUIPMENT RELATIVE TO MAJOR PHYSICAL FEATURES...

EXISTING SANITARY SEWER AND WATER LINE:

THE CONTRACTOR SHALL USE CARE WHEN WORKING AROUND SANITARY SEWERS AND WATER LINES. SHOULD THE CONTRACTOR DAMAGE EXISTING SEWER OR WATER LINES, HE SHALL IMMEDIATELY REPLACE THE LINE AT HIS EXPENSE WITH DUCTILE IRON PIPE...

CAMERA:

CDOT ELECTRONIC SYSTEMS LAB SHALL APPROVE THE FIRST CAMERA CONTROL BOX BUILT BY THE CONTRACTOR

FIBER

UNDER NO CIRCUMSTANCES SHALL ENERGIZED CABLE BE PLACED IN THE SAME CONDUIT AS FIBER OPTIC CABLE UNLESS OTHERWISE APPROVED BY THE ENGINEER.

STANDARDS

THE FOLLOWING STANDARDS AND THE LATEST REVISION THERETO ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE ARE CONSIDERED A PART OF THESE PLANS. NCDOT STANDARDS SHALL BE USED. CHARLOTTE LAND DEVELOPMENT STANDARDS MAY BE USED IF THERE IS NOT AN APPLICABLE NCDOT STANDARD.

CONSTRUCTION TO BE CONSISTENT WITH LATEST EDITION OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.

NCDOT:

Table with 2 columns: STD. NO., TITLE.
848.01.....CONCRETE SIDEWALK
1716.01.....JUNCTION BOXES
1720.01.....POLES
1721.01.....GUY ASSEMBLIES
1730.01.....FIBER-OPTIC CABLE SLACK

CHARLOTTE LAND DEVELOPMENT STANDARD:

Table with 2 columns: STD. NO., TITLE.
30.06A.....TEMPORARY SILT FENCE
30.17A.....SEEDING SCHEDULE
30.17B.....SEEDING SCHEDULE

ABBREVIATIONS

CHARLOTTE LAND DEVELOPMENT STANDARD:

Table of abbreviations: ABAND.....ABANDONED, ASPH.....ASPHALT, APPROX.....APPROXIMATELY, B/C.....BACK OF CURB, BIT.....BITUMINOUS, BM.....BENCH MARK, BRG.....BEARING, CB.....CATCH BASIN, C&G.....CURB AND GUTTER, CL.....CLEARANCE C/L, FENCE.....CHAIN LINK FENCE, CMP.....CORRUGATED MTL PIPE, CONC.....CONCRETE, CONST.....CONSTRUCTION, DI.....DROP INLET, DIA.....DIAMETER, DW.....DRIVEWAY, DIM.....DIMENSION, E.....EAST/EASTING, EA.....EACH, ELEV.....ELEVATION, EOP.....EDGE OF PAVEMENT, ESMT.....EASEMENT, EXIST.....EXISTING, F/C.....FACE OF CURB, FES.....FLARED END SECTION, FH.....FIRE HYDRANT, FOC.....FIBER OPTIC CABLE, GV.....GAS VALVE, HORIZ.....HORIZONTAL, INT.....INTERSECTION, INV.....INVERT, IP.....IRON PIN SET, L.....LENGTH, LF.....LINEAR FOOTAGE, LT.....LEFT, lb.....POUND, LP.....LIGHT POLE, MAX.....MAXIMUM, MIN.....MINIMUM, MONO.....MONOLITHIC, mph.....MILES PER HOUR, MTL.....METAL, N.....NORTH/NORTHING, NTS.....NOT TO SCALE, O/H.....OVER HEAD, OC.....ON CENTER, PAVT.....PAVEMENT, PC.....POINT OF CURVATURE, PERM.....PERMANENT, PG.....PAGE, PI.....POINT OF INT, PK.....PK NAIL SET, PP.....POWER POLE, PROP.....PROPOSED, PSE.....PERM SW ESMT, PT.....POINT OF TANGENCY, PVI.....POINT OF VERT INT, PUE.....PERM UTILITY ESMT, r.....RADIUS, RT.....RIGHT, RCP.....REINFORCED CONC PIPE, R/W.....RIGHT OF WAY, S.....SOUTH, SD.....STORM DRAIN, SF.....SQUARE FOOT, SS.....SANITARY SEWER, STA.....STATION, STD.....STANDARD, SW.....SIDEWALK, TAN.....TANGENT, TCE.....TEMP CONST ESMT, TEMP.....TEMPORARY, TP.....TRAVERSE POINT, T/W.....TEST WIRE, TYP.....TYPICAL, U/G.....UNDER GROUND, VC.....VERTICAL CURVE, VERT.....VERTICAL, W.....WITH, WM.....WATER METER W, WV.....WATER VALVE, 60p.....SIXTY PENNY NAIL SET, '.....INCH, '.....FEET

PROJECT REFERENCE NO.

I-5973

SHEET NO.

SCP2A

Plans Prepared By:

Kimley Horn

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421 Fayetteville Street, Suite 600
Raleigh, NC 27601
919-677-2000

Table with 4 columns: NO., DATE, BY, DESCRIPTION

CDOT STANDARD DETAIL
CONTRACTOR TO ENSURE
DETAIL IS CURRENT
AT TIME OF CONSTRUCTION

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

Table with 4 columns: CDOT-ITS-##-###, JOB NO., CAD FILE, DATE

BROOKSHIRE BOULEVARD
CHARLOTTE, NC
GENERAL NOTES & STANDARDS

SHEET CR2A OF CR9



Know what's below.
Call before you dig.

TRAFFIC CONTROL NOTES

A) ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITIONS OF THE CHARLOTTE DEPT. OF TRANSPORTATION(CDOT) WORK AREA TRAFFIC CONTROL HANDBOOK(W.A.T.C.H.), THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES(M.U.T.C.D.), THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION(NCDOT) SUPPLEMENT TO THE M.U.T.C.D., THE NCDOT ROADWAY STANDARD DRAWINGS AND THE CURRENT EDITION OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.

B) THE CONTRACTOR IS TO NOTIFY CDOT IN WRITING 10 WORKING DAYS IN ADVANCE OF ANY ROAD CLOSURE OR 5 WORKING DAYS PRIOR TO CLOSING ONE OR MORE TRAVEL LANES IN ACCORDANCE WITH THE SECTION "APPROVAL AND NOTIFICATION REQUIREMENT FOR WORK IN THE PUBLIC RIGHT-OF-WAY OF THE W.A.T.C.H. HANDBOOK.

C) ALL SIGNAL REVISIONS OR SHIFTS OF SIGNAL HEADS WILL BE THE RESPONSIBILITY OF CDOT; PRIOR TO REVISING TRAFFIC LANES WHICH REQUIRE SIGNAL REVISIONS, THE CONTRACTOR SHALL NOTIFY THE CDOT IMPLEMENTATION SECTION MANAGER (GUS JORDI / 336-7086) OR HIS REPRESENTATIVE A MINIMUM OF 30 CALENDAR DAYS IN ADVANCE. TRAFFIC LANES SHALL NOT BE SHIFTED UNTIL THE REQUIRED SIGNAL REVISION/SHIFT IS COMPLETE AND READY FOR ACTIVATION. ALL COMPLETE RESTRINGS OR NEW TRAFFIC SIGNALS REQUIRE 60 CALENDAR DAYS NOTICE.

D) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH, INSTALL, RELOCATE, AND MAINTAIN ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, WARNING AND/OR CHANNELIZING DEVICES FOR WORK SITES AND DETOUR ROUTES AS SHOWN IN TRAFFIC CONTROL PLANS UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

E) CONSTRUCTION PHASING MAY DICTATE THAT TWO OR MORE TYPICAL W.A.T.C.H. DIAGRAMS OR STANDARDS BE USED IN ONE AREA OF CONSTRUCTION. CHANNELIZING DEVICES ASSOCIATED WITH THESE TYPICALS SHALL BE MOVED, SUPPLEMENTED, CHANGED, OR REMOVED AS NECESSARY TO COMPLY WITH THE CONSTRUCTION PHASING OF THE PLANS. THE LOCATION AND POSITIONING OF THESE DEVICES SHALL BE APPROVED BY THE ENGINEER TO ENSURE THAT THE MOTORIST DOES NOT RECEIVE FALSE INFORMATION WHEN TWO OR MORE TYPICALS AND/OR ROADWAY STANDARD DRAWINGS OVERLAP.

F) CONTRACTOR SHOULD BE AWARE THAT WHEN THE CONSTRUCTION AREA IS IN OR NEAR A VERTICAL CREST OR HORIZONTAL CURVE, THE WORK AREA SHALL BE EXTENDED SO THAT LANE CLOSURE BEGINS IN ADVANCE OF THE CURVE AND MINIMUM STOPPING SIGHT DISTANCE IS MET.

G) OFF-DUTY POLICE OFFICERS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER TO BE PRESENT FOR CONTROLLING TRAFFIC DURING CONSTRUCTION HOURS.

H) THE CONTRACTOR SHALL IDENTIFY ALL HAZARDS WITHIN THE LIMITS OF THE PROJECT WITH WELL-MAINTAINED SIGNS, BARRICADES, WARNING AND/OR CHANNELIZING DEVICES. ON CONNECTING ROADS, ALL BARRICADES, SIGNS, WARNING, AND/OR CHANNELIZING DEVICES SHALL BE MOVED, SUPPLEMENTED, CHANGED, OR REMOVED AS REQUIRED DURING THE PROGRESS OF CONSTRUCTION AS APPROVED BY THE ENGINEER.

I) WORK ON THE PROJECT OR ANY SEPARATE ACTIVITY THEREIN SHALL NOT START UNTIL ALL OF THE REQUIRED SIGNS, BARRICADES, WARNING, AND/OR CHANNELIZING DEVICES ARE INSTALLED AND APPROVED BY THE ENGINEER.

J) THE CONTRACTOR SHALL CONTACT GUS JORDI, IMPLEMENTATION SECTION MANAGER (704-336-7086) OR REPRESENTATIVE WITH THE CITY OF CHARLOTTE DEPARTMENT OF TRANSPORTATION (CDOT) TWO WEEKS PRIOR TO BEGINNING ANY WORK THAT WILL REQUIRE THE RELOCATION OF SIGNS OR OTHER TRAFFIC CONTROL DEVICES BY THE CITY.

K. THE CONTRACTOR MUST MAINTAIN DURING ALL PERIODS OF CONSTRUCTION ACTIVITY THE ABILITY TO FLAG TRAFFIC USING QUALIFIED FLAGGERS WHEN NECESSARY OR REQUIRED

TRAFFIC CONTROL NOTES

L. THE CONTRACTOR SHALL INSTALL TEMPORARY PAVEMENT MARKINGS AND ADDRESS CONFLICTING PAVEMENT MARKINGS IN ACCORDANCE WITH THE SECTION "TEMPORARY TRAFFIC CONTROL ZONE DEVICES" OF THE W.A.T.C.H. HANDBOOK OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN ANY EXISTING PAVEMENT MARKINGS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

M) THE CONTRACTOR SHALL MAINTAIN TWO WAY TRAFFIC ON ALL PORTIONS OF THIS PROJECT UNLESS OTHERWISE SPECIFIED IN THE PLANS, PROJECT NOTES, OR BY THE ENGINEER. FOR ALL APPROVED ROAD AND LANE CLOSURES, THE CONTRACTOR MUST NOTIFY GUS JORDI, IMPLEMENTATION SECTION MANAGER (704-336-7086) OR REPRESENTATIVE A MINIMUM OF TEN WORKING DAYS PRIOR TO THE ROAD CLOSING, AND FIVE WORKING DAYS PRIOR TO A 24-HOUR/PEAK HOUR LANE CLOSURE.

N) THE CONTRACTOR WILL BE REQUIRED TO PROVIDE PROPERTY OWNERS AND TENANTS ACCESS TO THEIR PROPERTIES THROUGHOUT THE PROJECT LIMITS, INCLUDING REASONABLE INGRESS AND EGRESS FOR BUSINESSES. SPECIAL ATTENTION SHALL BE PAID TO FIRE HYDRANTS.

O) THE CONTRACTOR IS TO NOTIFY (BY MAIL) ALL PROPERTY OWNERS AND OCCUPANTS WHO HAVE DIRECT ACCESS TO THE ROADWAY WITHIN THE PROJECT LIMITS A MINIMUM OF 5 AND A MAXIMUM OF 10 WORKING DAYS PRIOR TO INSTALLING TRAFFIC CONTROL DEVICES IN FRONT OF THOSE PROPERTIES. NOTIFICATIONS SHOULD INCLUDE CONTACT PERSONS NAME, TELEPHONE NUMBER, EMAIL ADDRESS, AND MAILING ADDRESS.

P) THE CONTRACTOR SHALL PATROL THE WORK SITE AT THE BEGINNING AND END OF EACH WORK DAY, AT A MINIMUM, TO ENSURE THAT ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND FUNCTIONING PROPERLY. CONTRACTOR SHALL ENSURE THAT ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND FUNCTIONING AT ALL TIMES DURING PERIODS OF CONSTRUCTION INACTIVITY.

Q) DURING PERIODS OF INACTIVITY OR AT NIGHT, EQUIPMENT SHALL NOT BE PARKED IN SUCH A MANNER AS TO BLOCK SIDEWALKS, TRAFFIC CONTROL DEVICES, OR THE MOTORISTS' VIEW OF TRAFFIC. EQUIPMENT SHALL BE AT LEAST 10 FEET AWAY FROM THE TRAVEL LANE. EQUIPMENT SHALL NOT BLOCK SIDEWALKS AT ANY TIME UNLESS THE SIDEWALK ITSELF IS UNDERGOING CONSTRUCTION.

R) WHENEVER TRAFFIC MUST BE ROUTED ACROSS THE CENTERLINE DURING CONSTRUCTION ACTIVITY, THE TWO OPPOSING DIRECTIONS MUST BE PHYSICALLY SEPARATED. TRAFFIC CONES CAN BE USED FOR THIS PURPOSE DURING DAYLIGHT HOURS; REFLECTORIZED CONES OR DRUMS MUST BE USED AT NIGHT. TRAFFIC SHALL NOT BE ROUTED ACROSS THE CENTERLINE DURING CONSTRUCTION INACTIVITY UNLESS PAVEMENT MARKING CONFLICTS ARE APPROPRIATELY ADDRESSED AND AGREEMENT ON REMOVAL OR NOT IS WORKED OUT WITH THE ENGINEER IN ACCORDANCE WITH THE SECTION "DURATION OF WORK" OF THE W.A.T.C.H. HANDBOOK. IF THE ENGINEER APPROVES TRAFFIC TO CROSS THE CENTER LINE DURING CONSTRUCTION INACTIVITY, ONLY REFLECTORIZED DRUMS MUST BE USED.

S) THE CITY ENGINEER OR DIRECTOR OF THE CHARLOTTE DEPARTMENT OF TRANSPORTATION OR THEIR APPOINTED REPRESENTATIVES ARE AUTHORIZED TO STOP ANY WORK WITHIN PUBLIC RIGHT OF WAY THAT DOES NOT FOLLOW THIS TRAFFIC CONTROL PLAN OR REQUIREMENTS OF THE W.A.T.C.H. AND THE M.U.T.C.D. UNTIL SUCH REQUIREMENTS ARE MET.

T) ADJACENT LANES TO CONSTRUCTION ZONES MAY REMAIN OPEN IF LATERAL CLEARANCE BETWEEN EDGE OF TRAVEL LANE AND EQUIPMENT IS EQUAL TO OR GREATER THAN 2 FEET (INCLUDING WIDTH OF DRUM). IF A DROPOFF EXISTS WITHIN THE WORK ZONE, CONTRACTOR SHOULD FOLLOW THE SECTION "MISCELLANEOUS CONSIDERATIONS" OF THE W.A.T.C.H. HANDBOOK PERTAINING TO ADJACENT LANE CLOSURES DUE TO DROPOFFS.

TRAFFIC CONTROL NOTES

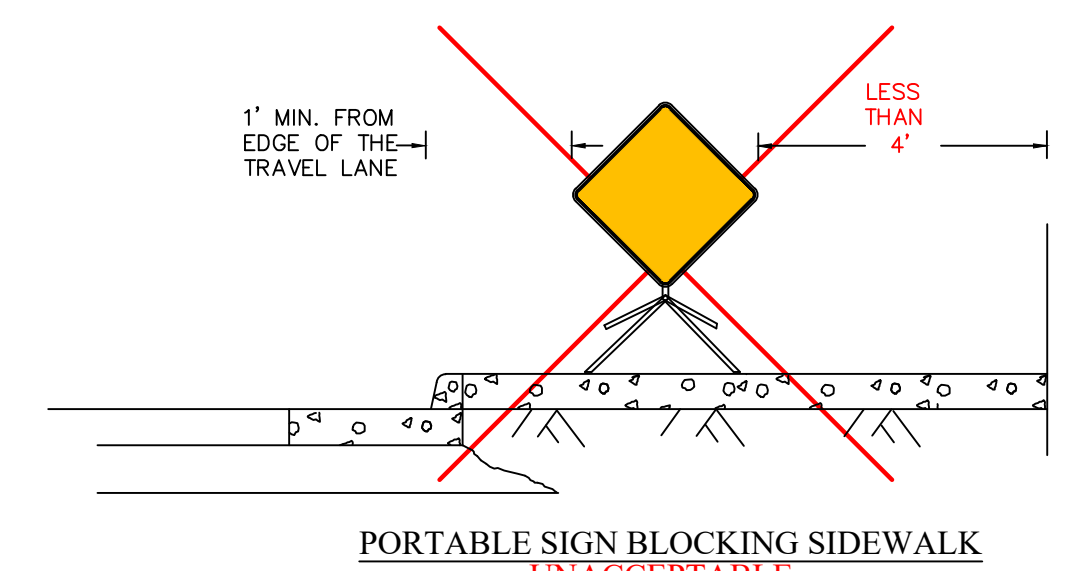
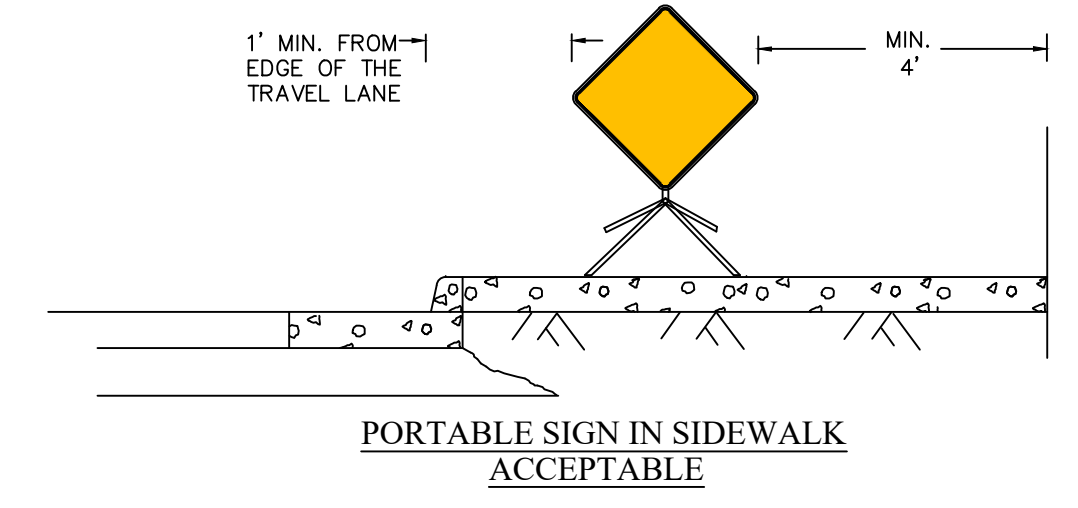
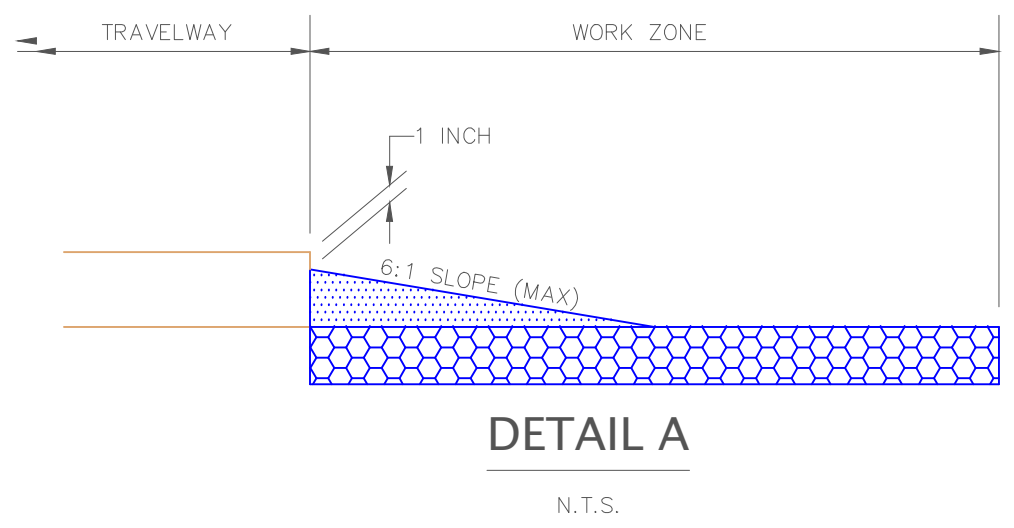
U) THE CONTRACTOR SHALL FOLLOW THE PHASING AS DESCRIBED HEREIN. THE CONTRACTOR SHALL COMPLETE THE REQUIREMENTS OF EACH CONSTRUCTION PHASE IN SEQUENCE. WHEN A CONSTRUCTION PHASE IS DIVIDED INTO STEPS, THE CONTRACTOR SHALL COMPLETE THE REQUIREMENTS OF EACH STEP IN SEQUENCE UNLESS OTHERWISE SPECIFIED IN THE PLAN OR APPROVED BY THE ENGINEER, (EXAMPLE: THE REQUIREMENTS OF PHASE I SHALL BE COMPLETED BEFORE PROCEEDING TO PHASE II; THE REQUIREMENTS OF STEP 1 OF PHASE I SHALL BE COMPLETED BEFORE PROCEEDING TO STEP 2 OF PHASE I). ALL WORK DESCRIBED IN THE PROJECT PHASING SHALL BE PERFORMED BY THE CONTRACTOR, EXCEPT WHERE IT IS SPECIFIED FOR CERTAIN WORK TO BE PERFORMED BY OTHERS.

V) THE CONTRACTOR SHALL NOT BE ALLOWED TO STOP TRAFFIC FOR MORE THAN 5 MINUTES AT A TIME IN ANY ONE DIRECTION.

W) CONTRACTOR SHALL NOT BE ALLOWED TO WORK ON BOTH SIDES OF THE ROAD SIMULTANEOUSLY WITHIN THE SAME AREA EXCEPT WHERE THE ROADWAY IS DIVIDED BY A RAISED MEDIAN AND PEDESTRIAN TRAFFIC IS MAINTAINED ON AT LEAST ONE SIDE UNIMPEDED. IT WILL BE ACCEPTABLE TO CONSTRUCT BORE PITS ON EACH SIDE OF A ROADWAY FOR BORING UTILITIES UNDER THE ROADWAY UNLESS SUPERCEDED BY ENGINEER TO COMPLY WITH PEDESTRIAN REQUIREMENTS OR LATERAL CLEARANCE FROM TRAVEL LANES.

X) THE CONTRACTOR SHALL PAY SPECIAL ATTENTION TO THE SECTION "PEDESTRIAN CONSIDERATIONS" OF THE W.A.T.C.H. PEDESTRIANS MUST NOT BE REROUTED TO CROSS TO THE OTHER SIDE OF THE ROAD UNLESS THE ENGINEER AGREES THAT THERE IS NO ALTERNATE SAFE ROUTE ON THE SAME SIDE OF THE STREET. THE ALTERNATIVE PEDESTRIAN ROUTE IF APPROVED/USED MUST INCLUDE ACCESSIBILITY AND DETECTABLE FEATURES CONSISTENT WITH THE EXISTING PEDESTRIAN FACILITY.

Y) THE CONTRACTOR SHALL PAY SPECIAL ATTENTION TO THE SECTION "TEMPORARY TRAFFIC CONTROL ZONE DEVICES" OF THE W.A.T.C.H. NEITHER PORTABLE NOR PERMANENT SIGNS OR SIGN SUPPORT SHOULD OBSTRUCT SIDEWALKS UNLESS THE SIDEWALK ITSELF IS UNDERGOING CONSTRUCTION. A 4' MINIMUM CLEAR PATH MUST BE MAINTAINED WHEN A PORTABLE SIGN IS TO BE PLACED IN THE EXISTING SIDEWALK OTHERWISE, ROAD SIGNS SHOULD BE MOUNTED ON A POST WITH A MINIMUM VERTICAL CLEARANCE OF 7' FROM THE SURFACE OF THE SIDEWALK.

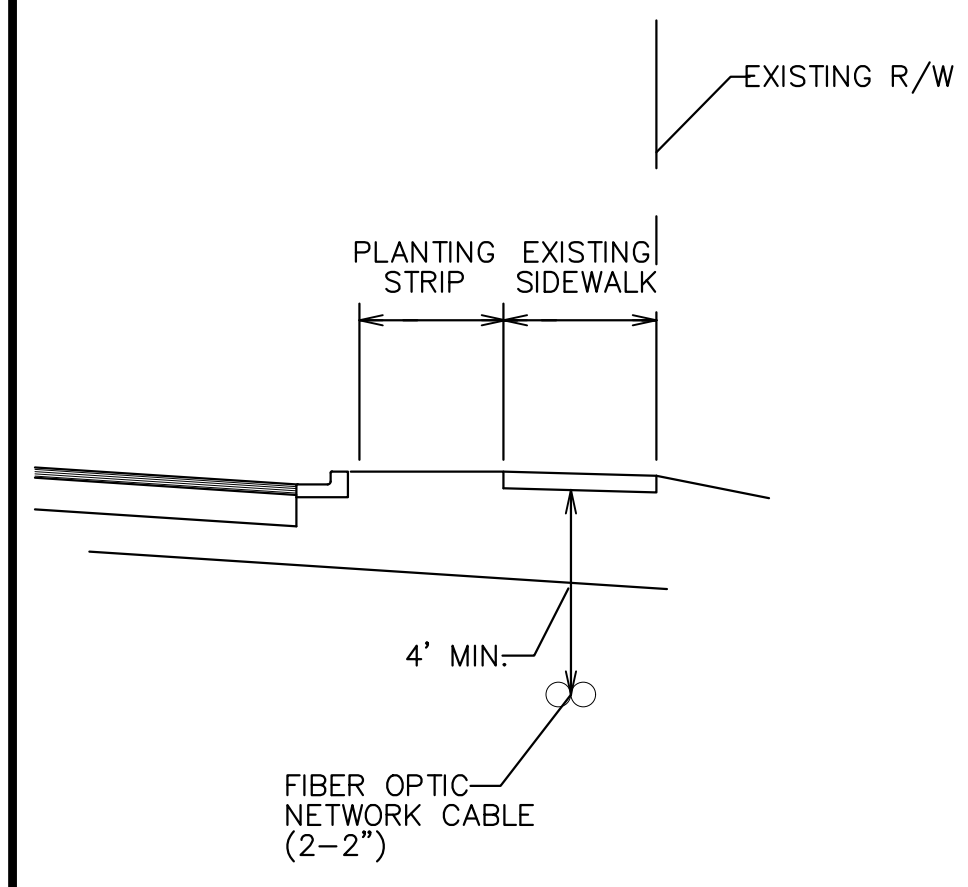


ALTERNATIVE OPTION IS TO PLACE SIGN BEHIND SIDEWALK WHEN POSSIBLE, OTHERWISE, MAY NEED TO POST MOUNT SIGN WITH 7' MINIMUM VERTICAL CLEARANCE FROM SIDEWALK SURFACE

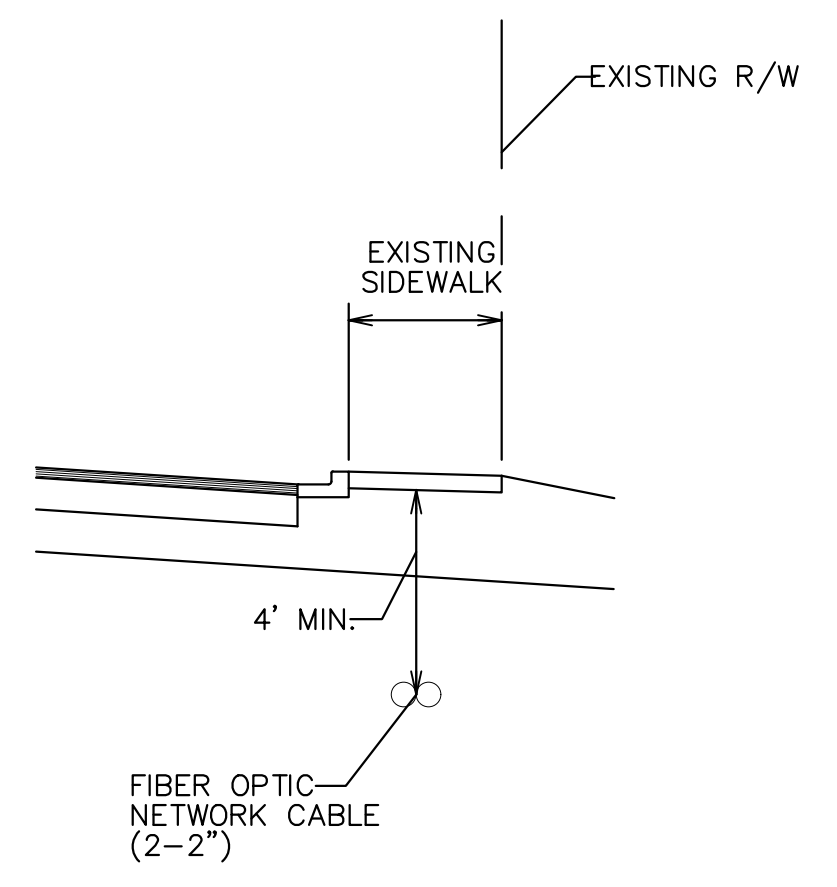
PROJECT REFERENCE NO.	
I-5973	
SHEET NO.	
SCP2B	
Plans Prepared By:	
Kimley»Horn	
NC License #F-0102 421 Fayetteville Street, Suite 600 Raleigh, NC 27601 919-677-2000	
DESCRIPTION	
BY	
DATE	
NO.	
CDOT STANDARD DETAIL CONTRACTOR TO ENSURE DETAIL IS CURRENT AT TIME OF CONSTRUCTION	
CDOTS-#/#/#	1"=20' SCALE
JOB NO.	CAD FILE
PREPARED BY	IZ Vanosdell
CHECKED BY	09/2021
APPROVED BY	DATE
BROOKSHIRE BOULEVARD CHARLOTTE, NC	
TRAFFIC CONTROL NOTES	
SHEET CR2B	OF CR9

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

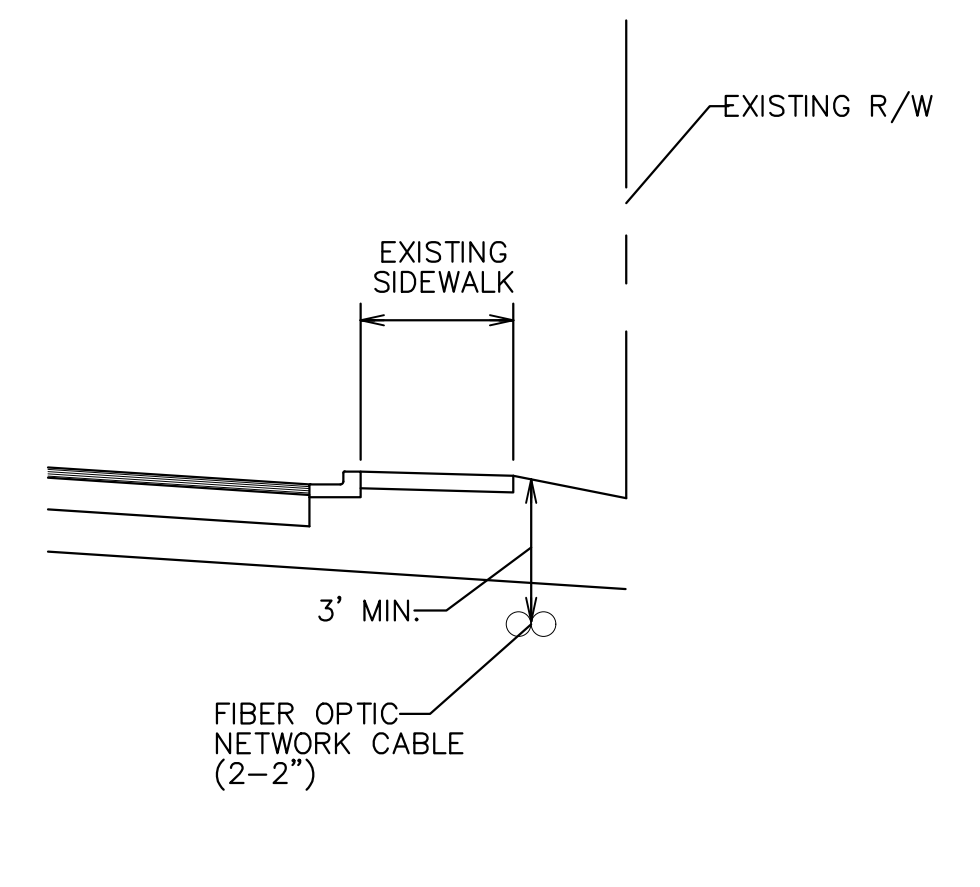
TRENCH AND DIRECTIONAL BORE DETAILS



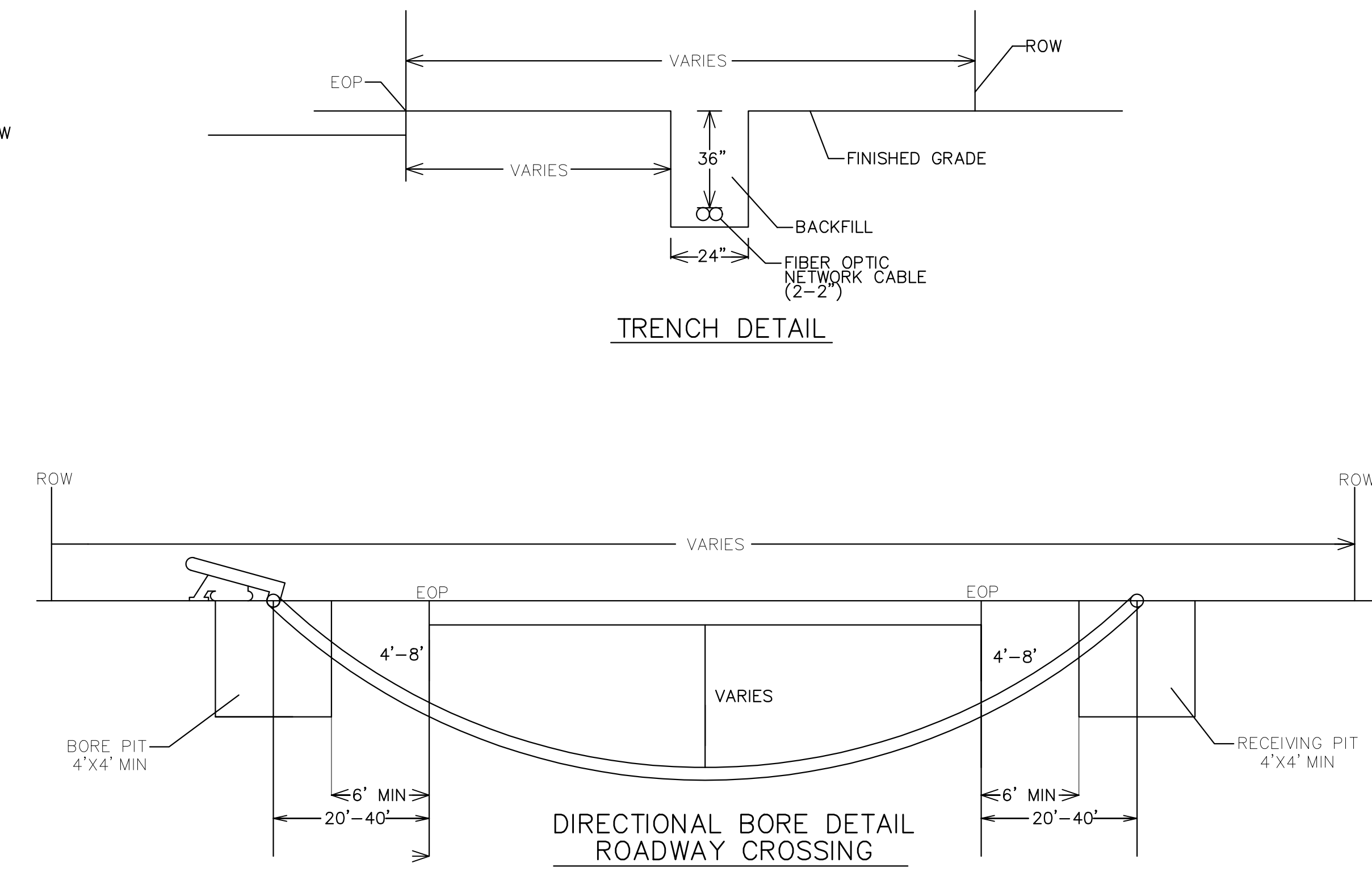
TYPICAL DIRECTIONAL BORE CROSS SECTION



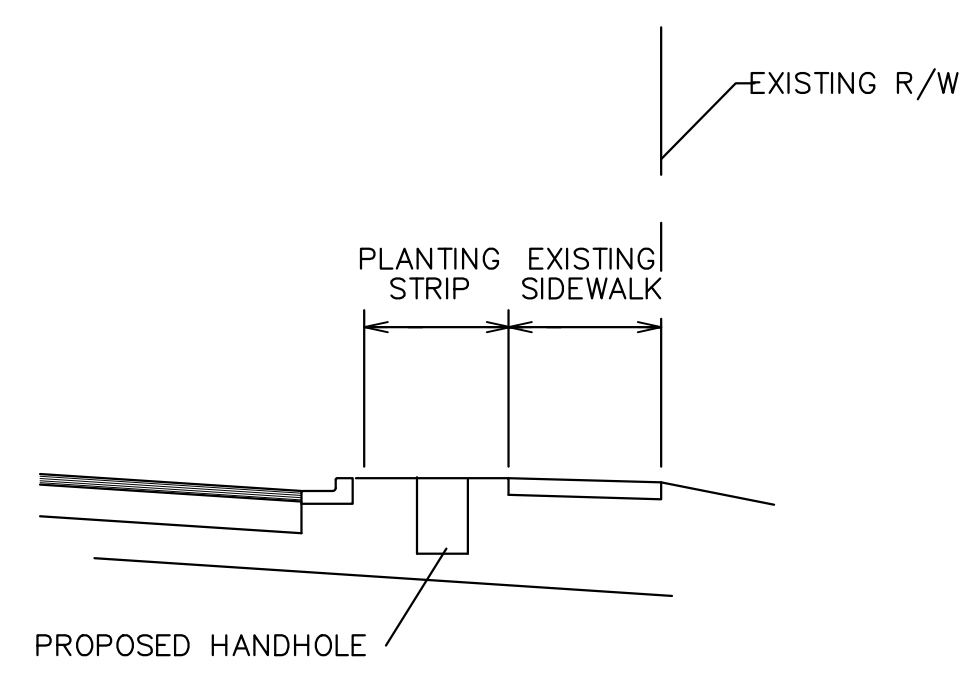
TYPICAL DIRECTIONAL BORE CROSS SECTION



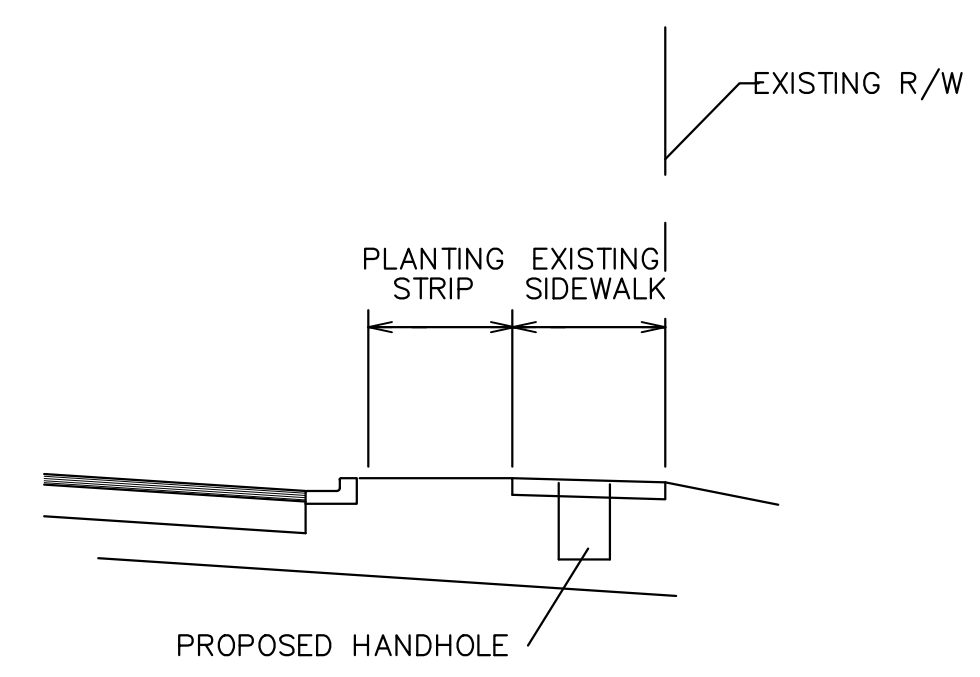
TYPICAL TRENCH CROSS SECTION



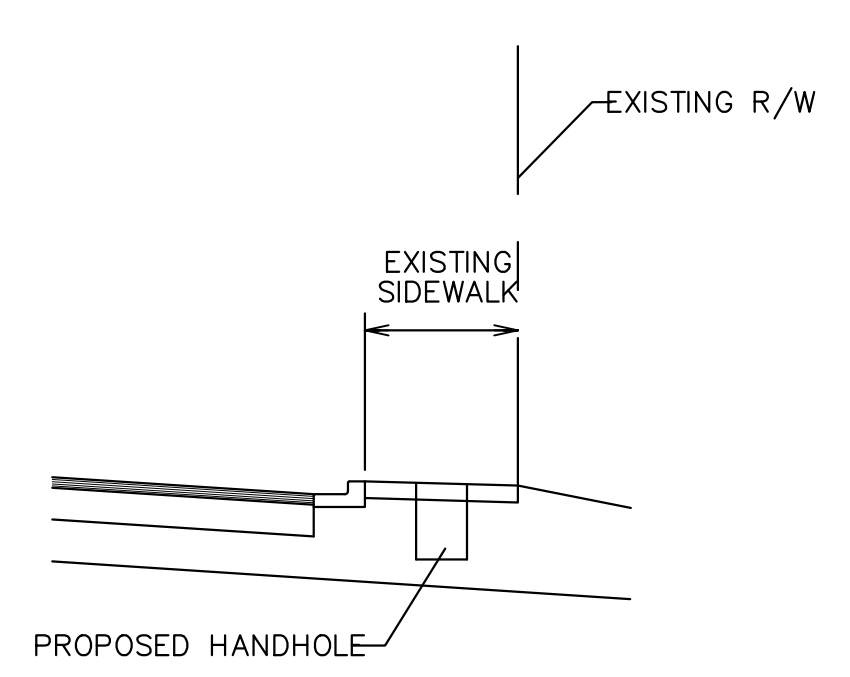
DIRECTIONAL BORE DETAIL ROADWAY CROSSING



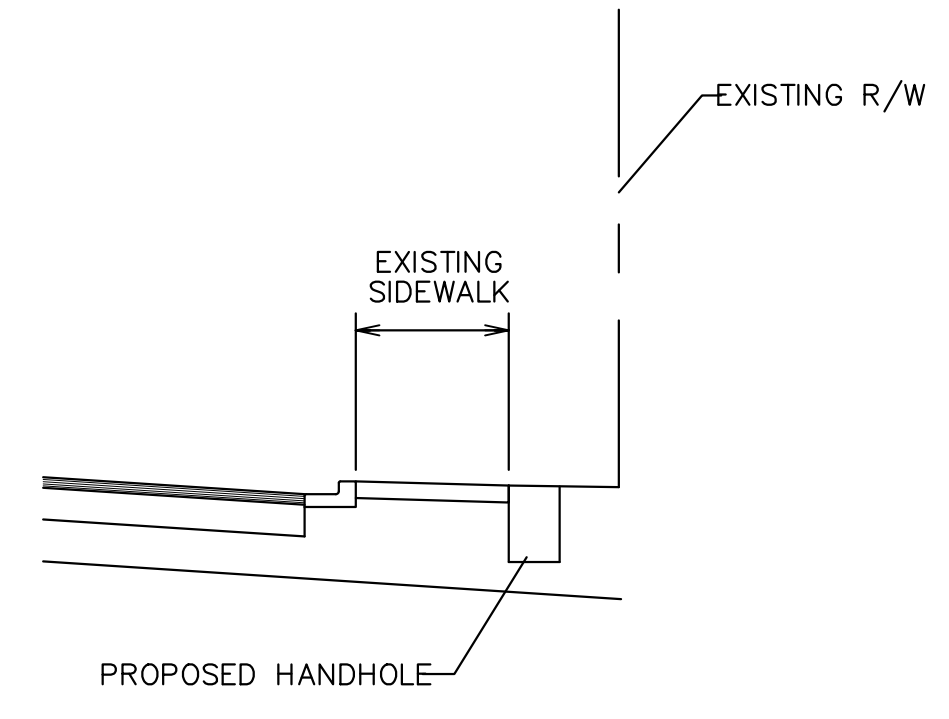
TYPICAL DIRECTIONAL BORE HANDHOLE CROSS SECTION



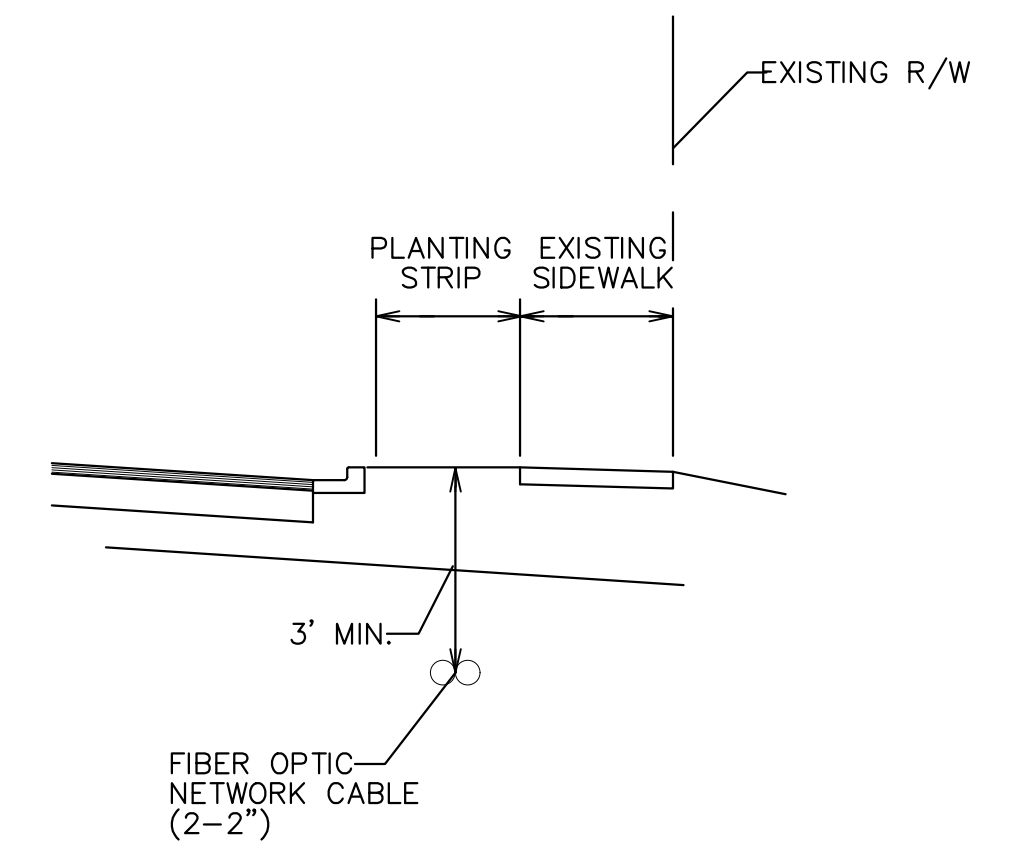
TYPICAL DIRECTIONAL BORE HANDHOLE CROSS SECTION



TYPICAL DIRECTIONAL BORE HANDHOLE CROSS SECTION



TYPICAL TRENCH HANDHOLE CROSS SECTION



TYPICAL TRENCH CROSS SECTION

Plans Prepared By:
Kimley»Horn
NC License #F-0102
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
919-677-2000

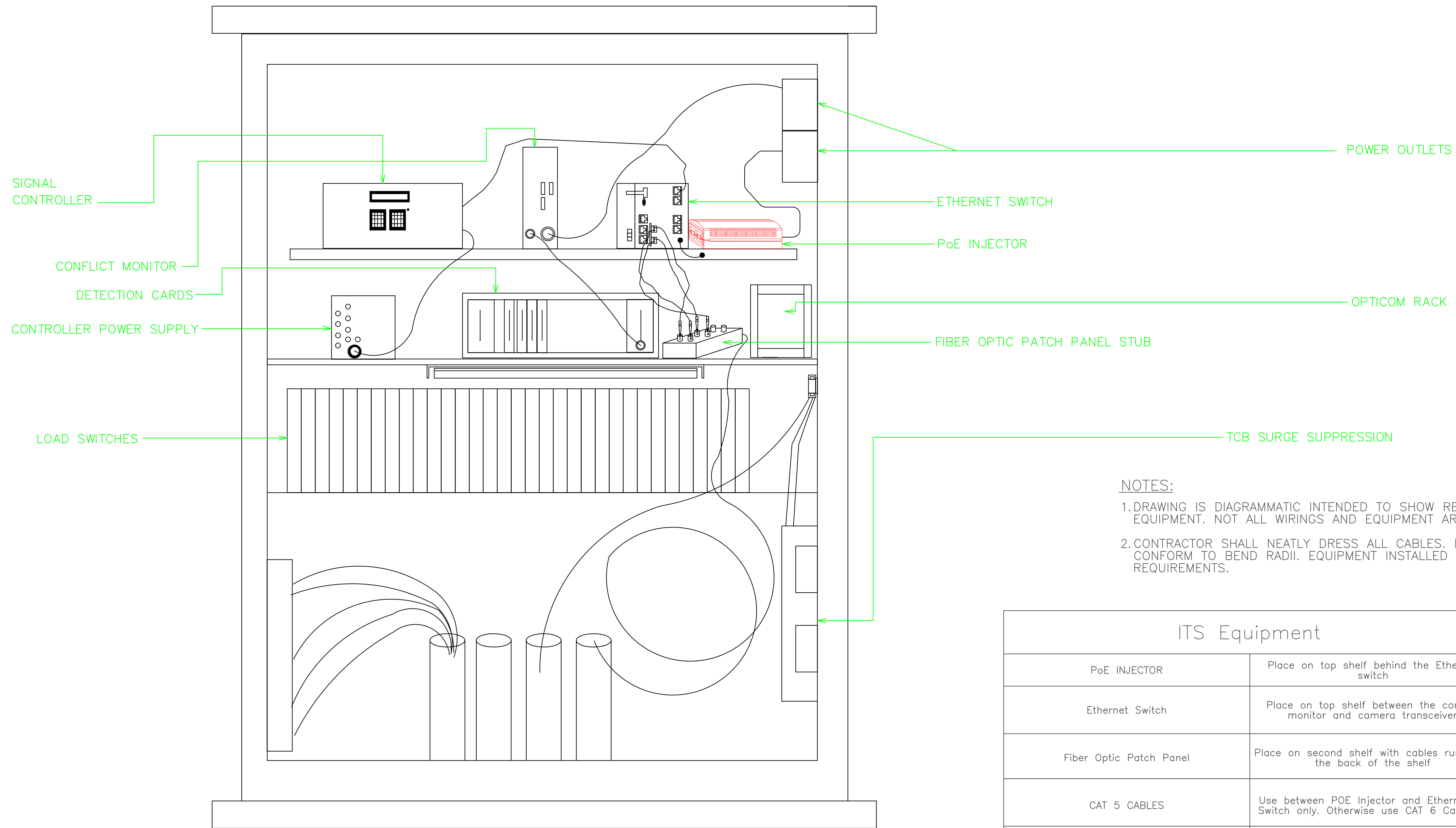
NO.	DATE	BY	DESCRIPTION

CDOT STANDARD DETAIL
CONTRACTOR TO ENSURE
DETAIL IS CURRENT
AT TIME OF CONSTRUCTION

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

CDOT FILE NO. / JOB NO.	SCALE	CAD FILE
MC Burke / PREPARED BY	1"=20'	IZ Vansedell / CHECKED BY
IZ Vansedell / APPROVED BY		09/20/21 / DATE

TRAFFIC CONTROL BOX (TCB) TS2 CABINET SHOWN



NOTES:

1. DRAWING IS DIAGRAMMATIC INTENDED TO SHOW RELATIVE LOCATION OF EQUIPMENT. NOT ALL WIRINGS AND EQUIPMENT ARE SHOWN.
2. CONTRACTOR SHALL NEATLY DRESS ALL CABLES. ENSURE ALL CABLES CONFORM TO BEND RADII. EQUIPMENT INSTALLED PER MANUFACTURER REQUIREMENTS.

ITS Equipment	
PoE INJECTOR	Place on top shelf behind the Ethernet switch
Ethernet Switch	Place on top shelf between the conflict monitor and camera transceiver
Fiber Optic Patch Panel	Place on second shelf with cables run from the back of the shelf
CAT 5 CABLES	Use between POE Injector and Ethernet Switch only. Otherwise use CAT 6 Cable
CAT 6 CABLES	Route through the back of the signal cabinet to the POE Switch

PROJECT REFERENCE NO.

I-5973

SHEET NO.

SCP2D

Plans Prepared By:
Kimley»Horn

NC License #F-0102
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
919-677-2000

NO. DATE BY DESCRIPTION

CDOT STANDARD DETAIL
CONTRACTOR TO ENSURE
DETAIL IS CURRENT
AT TIME OF CONSTRUCTION

**DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED**

CDOT-ITS-###/###	JOB NO.	SCALE	1"=20'
MC Burke	PREPARED BY	CD FILE	IZ Vansodell
IZ Vansodell	CHECKED BY	DATE	09/20/21
	APPROVED BY		

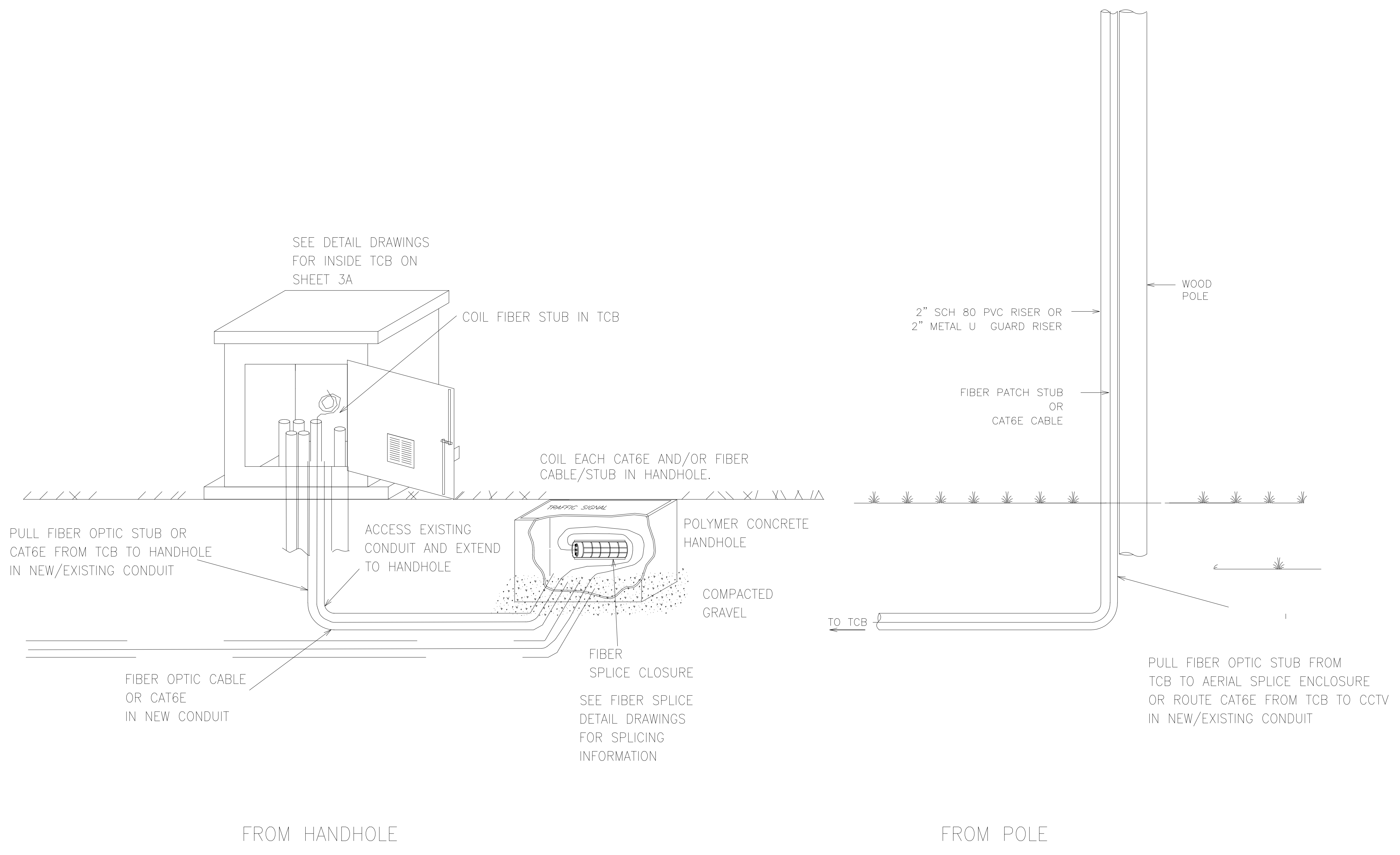
**BROOKSHIRE BOULEVARD
CHARLOTTE, NC**

TRAFFIC CONTROL BOX
DETAIL

SHEET
CR2D

OF
CR9

TRAFFIC CONTROL BOX (TCB) ENTRANCE GUIDE DRAWING



PROJECT REFERENCE NO.

I-5973

SHEET NO.

SCP2E

Plans Prepared By:

Kimley»Horn

NC License #F-0102
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
919-677-2000

NO.	DATE	BY	DESCRIPTION

CDOT STANDARD DETAIL
CONTRACTOR TO ENSURE
DETAIL IS CURRENT
AT TIME OF CONSTRUCTION

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

CDOT FILE NO. / JOB NO.	SCALE
1"=20'	
PREPARED BY	CAD FILE
MC Burke	
CHECKED BY	
IZ Vanosdell	
APPROVED BY	DATE
IZ Vanosdell	09/20/21

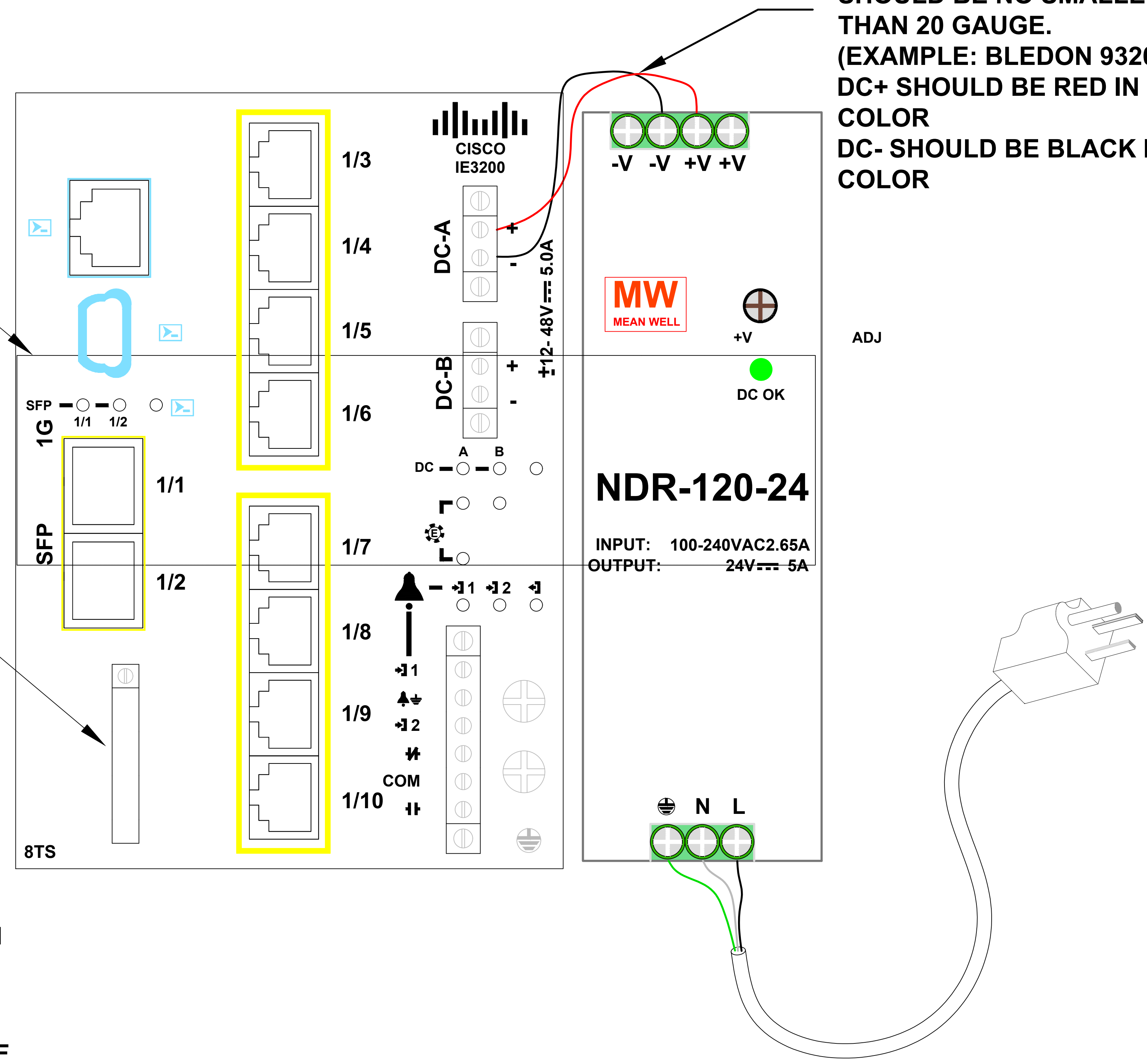
SHEET	BROOKSHIRE BOULEVARD CHARLOTTE, NC
CR2E	
OF	TRAFFIC CONTROL BOX (TCB) ENTRANCE DETAILS
CR9	

IE3200 ETHERNET SWITCH

DC POWER WIRES SHOULD BE NO SMALLER THAN 20 GAUGE. (EXAMPLE: BLEDON 9320) DC+ SHOULD BE RED IN COLOR DC- SHOULD BE BLACK IN COLOR

DIN RAIL (TS-35/7.5) SHOULD BE CUT TO A LENGTH OF 5.25 INCHES

SD CARD WILL BE OWNER FURNISHED



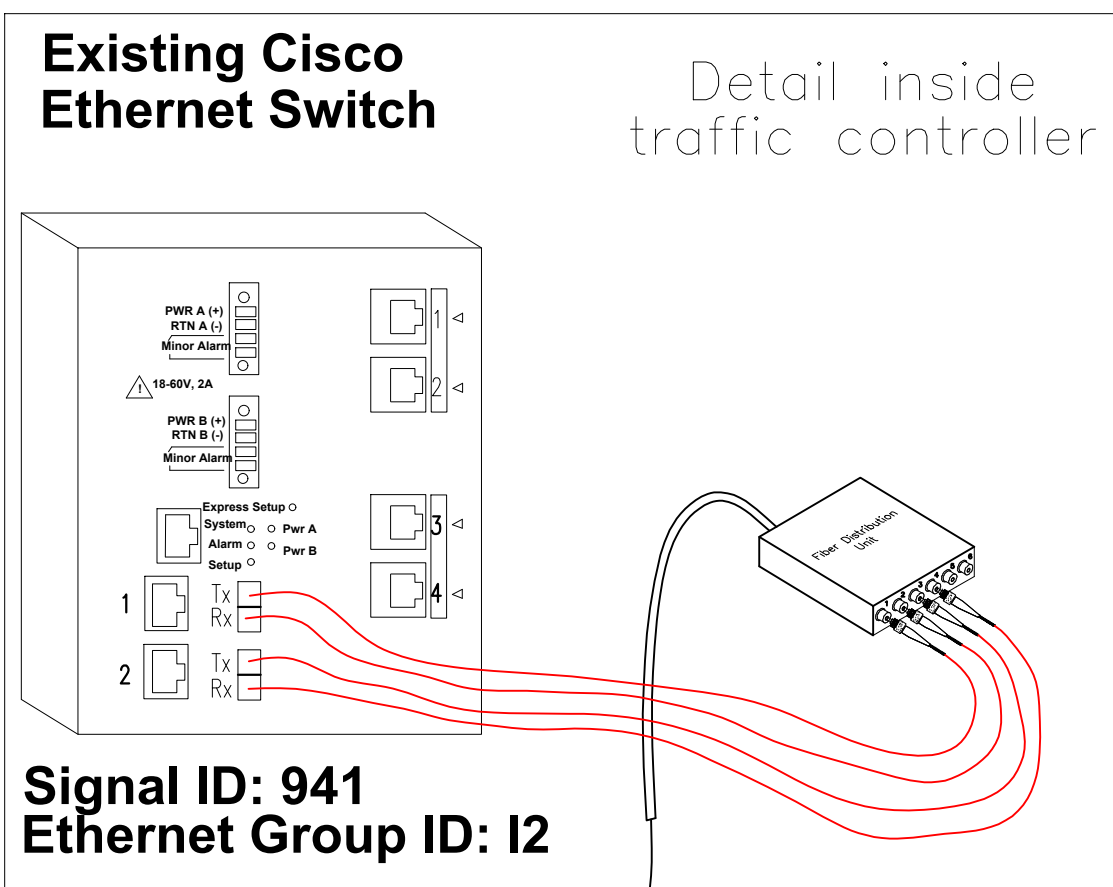
NOTES:

1. ATTACH SWITCH AND POWER SUPPLY TO DIN RAIL.
2. CONNECT RED WIRE (#20 AWG) FROM +V OF POWER SUPPLY TO +DC ON SWITCH.
3. CONNECT BLACK WIRE (#20 AWG) FROM -V OF POWER SUPPLY TO -DC OF SWITCH.
4. CONNECT GREEN WIRE FROM POWER CORD TO GROUND OF POWER SUPPLY.
5. CONNECT WHITE WIRE FROM POWER CORD TO NEUTRAL OF THE POWER SUPPLY.
6. CONNECT BLACK WIRE FROM POWER CORD TO LINE INPUT OF THE POWER SUPPLY.

PROJECT REFERENCE NO. I-5973	
SHEET NO. SCP2F	
Plans Prepared By: Kimley»Horn NC License #F-0102 421 Fayetteville Street, Suite 600 Raleigh, NC 27601 919-677-2000	
NO.	DESCRIPTION
BY	
DATE	
CDOT STANDARD DETAIL CONTRACTOR TO ENSURE DETAIL IS CURRENT AT TIME OF CONSTRUCTION	
SCALE 1"=20'	CAD FILE
JOB NO. C00715-###	CHECKED BY IZ Vanosdell
PREPARED BY MC Burke	DATE 09/2021
APPROVED BY IZ Vanosdell	
BROOKSHIRE BOULEVARD CHARLOTTE, NC	
IE3200 ETHERNET SWITCH DETAILS	
SHEET CR2F	OF CR9

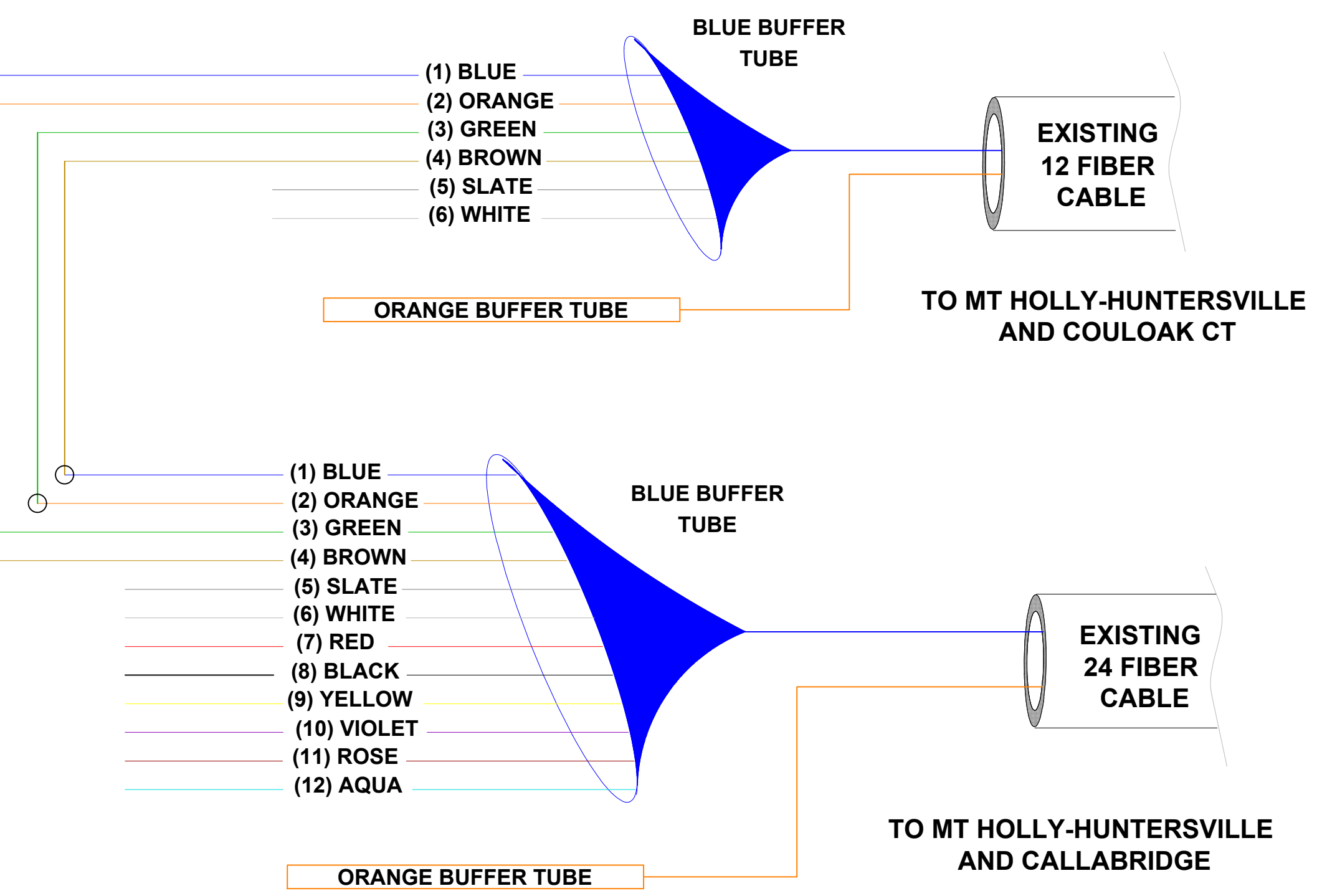
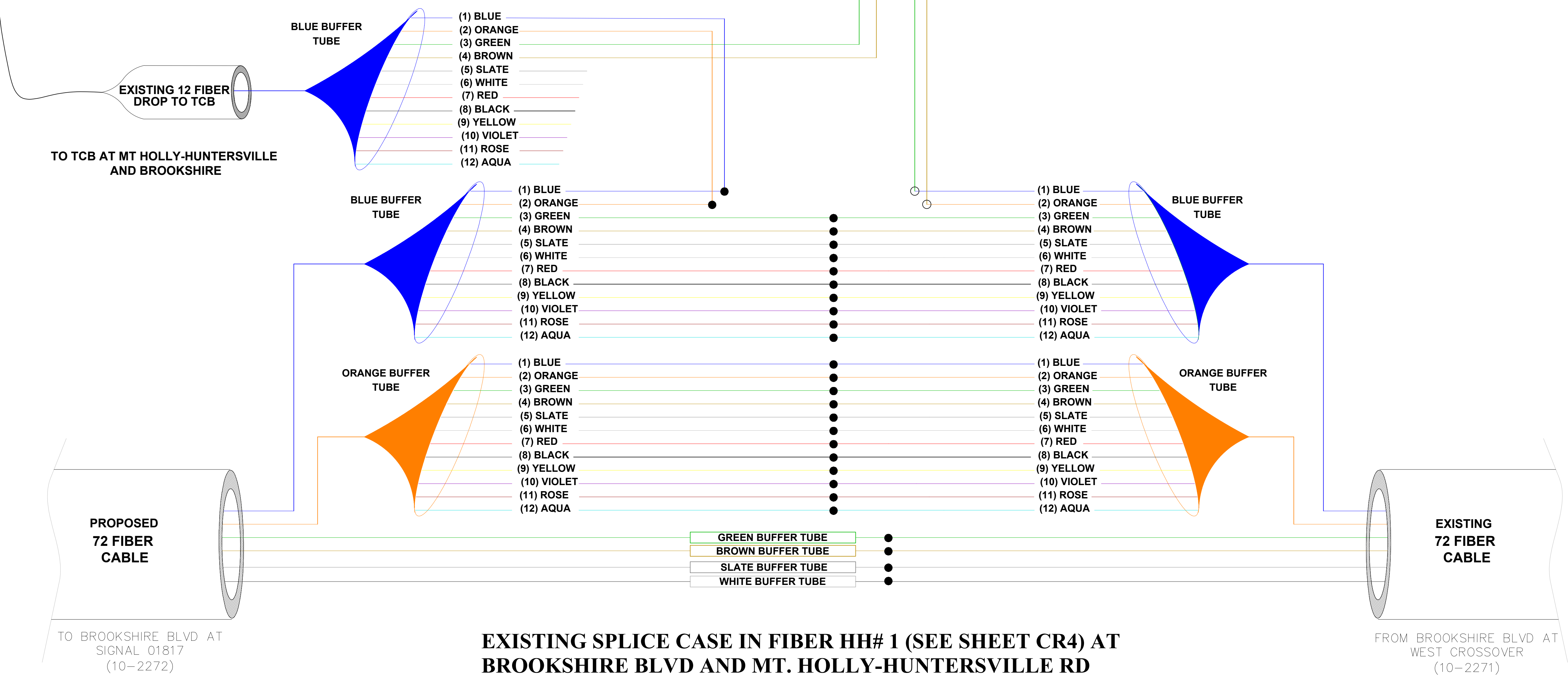
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MODIFY EXISTING SPLICE ENCLOSURE IN EXISTING HANDHOLE (HH1) AT SOUTHEAST CORNER OF BROOKSHIRE BLVD AT MT. HOLLY-HUNTERSVILLE RD SIG. INV# 00941 (10-0850)



COLOR CODE TIA/EIA 598-A		LEGEND	
(1) BLUE	(7) RED	○ EXISTING SPLICE	□ BUFFER TUBE
(2) ORANGE	(8) BLACK	● NEW SPLICE	
(3) GREEN	(9) YELLOW		
(4) BROWN	(10) VIOLET		
(5) SLATE	(11) ROSE		
(6) WHITE	(12) AQUA		

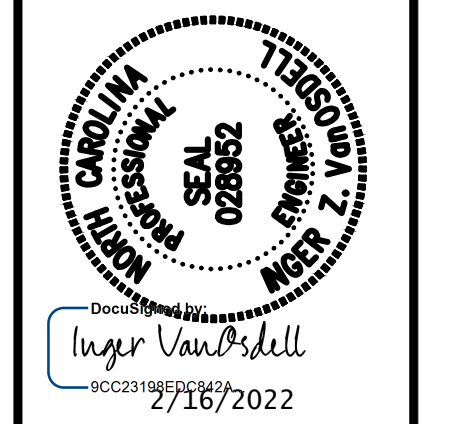
NOTE: EXISTING 72 SMFO CABLE BETWEEN EXISTING HH1 AND EXISTING HH6 IS TO BE ABANDONED AND PROPOSED 72 SMFO CABLE IS TO BE INSTALLED OUTSIDE OF CONSTRUCTION ZONE.



PROJECT REFERENCE NO.
I-5973
SHEET NO.
SCP3A

Plans Prepared By:
Kimley»Horn
NC License #F-0102
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
919-677-2000

NO.	DATE	BY	DESCRIPTION



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COORDINATOR	SCALE	DATE
JOB NO.	1"=20'	2/16/2022
CAD FILE	PREPARED BY	CHECKED BY
MC Burke	IZ Vanosdell	09/2021
APPROVED BY	DATE	
IZ Vanosdell		

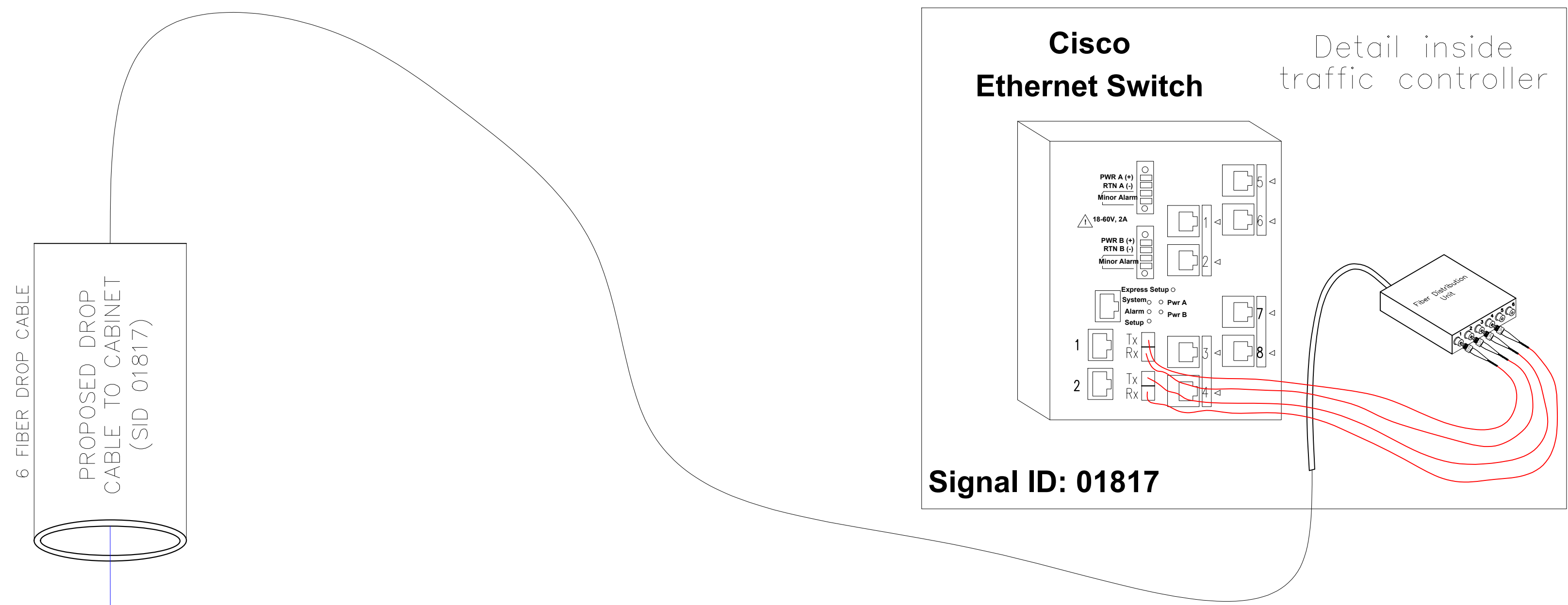
BROOKSHIRE BOULEVARD CHARLOTTE, NC

SPLICE DETAILS

SHEET **CR3A** OF **CR9**

**NEW SPLICE ENCLOSURE IN NEW HANDHOLE (HH3) AT
BROOKSHIRE BLVD AT EASTBOUND CROSSOVER SIGNAL
SIG. INV# 01817 (10-2272)**

COLOR CODE TIA/EIA 598-A		LEGEND	
(1) BLUE	(7) RED	○ EXISTING SPLICE	BUFFER TUBE
(2) ORANGE	(8) BLACK	● NEW SPLICE	
(3) GREEN	(9) YELLOW		
(4) BROWN	(10) VIOLET		
(5) SLATE	(11) ROSE		
(6) WHITE	(12) AQUA		



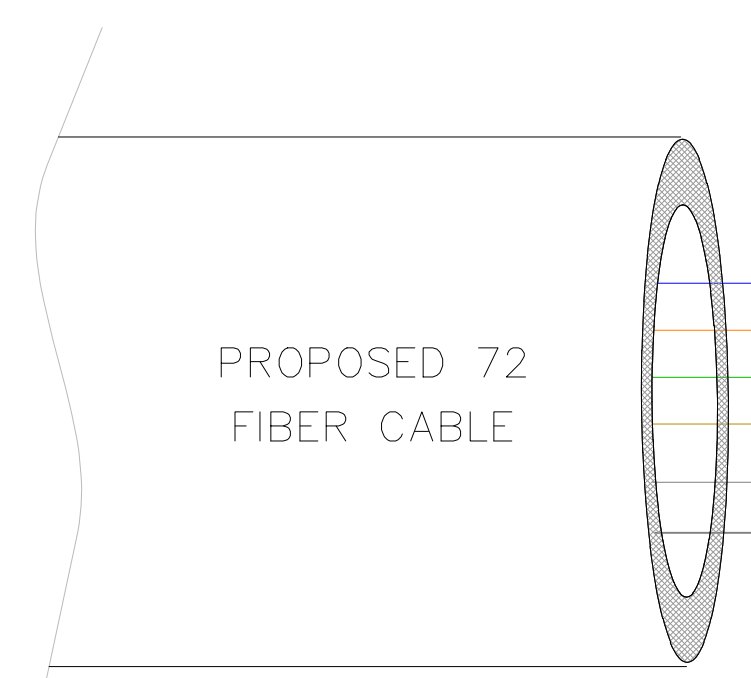
6 FIBER DROP CABLE
PROPOSED DROP
CABLE TO CABINET
(SID 01817)

(1) BLUE
(2) ORANGE
(3) GREEN
(4) BROWN
(5) SLATE
(6) WHITE

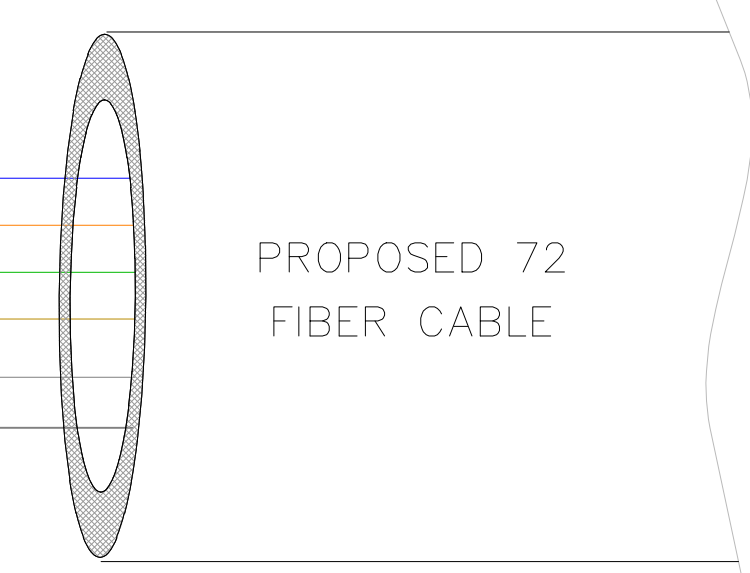
(1) BLUE
(2) ORANGE
(3) GREEN
(4) BROWN
(5) SLATE
(6) WHITE
(7) RED
(8) BLACK
(9) YELLOW
(10) VIOLET
(11) ROSE
(12) AQUA

(1) BLUE
(2) ORANGE
(3) GREEN
(4) BROWN
(5) SLATE
(6) WHITE
(7) RED
(8) BLACK
(9) YELLOW
(10) VIOLET
(11) ROSE
(12) AQUA

ORANGE BUFFER TUBE
GREEN BUFFER TUBE
BROWN BUFFER TUBE
SLATE BUFFER TUBE
WHITE BUFFER TUBE



FROM SIGNAL 00941
(10-0850)
ON BROOKSHIRE BLVD



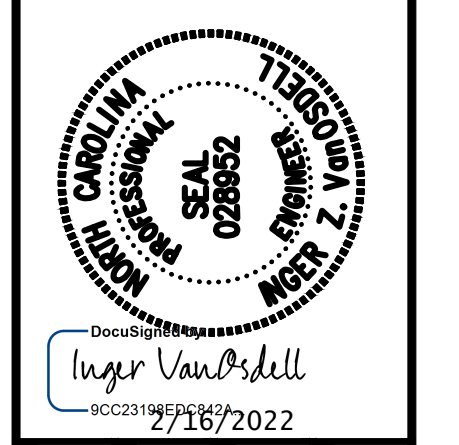
TO SIGNAL 00895
(10-1846)
ON BROOKSHIRE BLVD

SPLICE CASE IN FIBER HH# 3 (SEE SHEET CR5) AT BROOKSHIRE BLVD

PROJECT REFERENCE NO.
I-5973
SHEET NO.
SCP3B

Plans Prepared By:
Kimley»Horn
NC License #F-0102
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
919-677-2000

NO.	DATE	BY	DESCRIPTION



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SIGNATURES COMPLETED

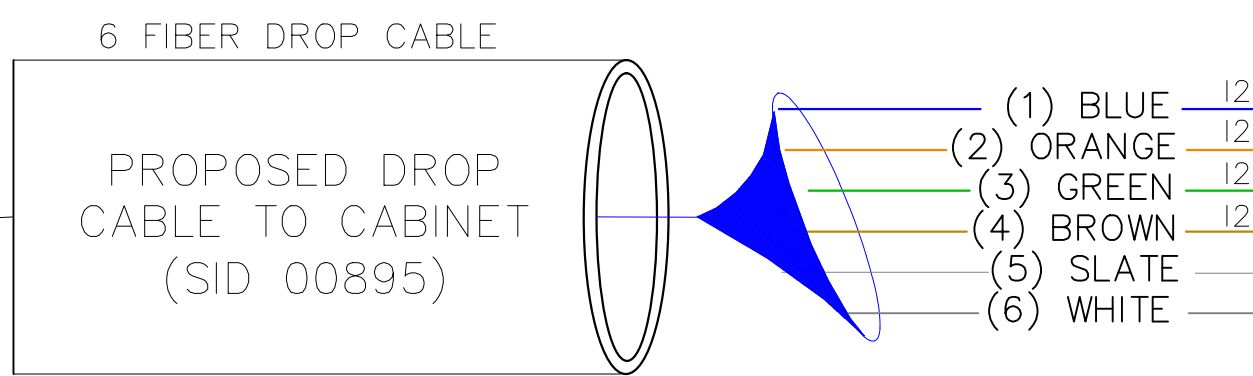
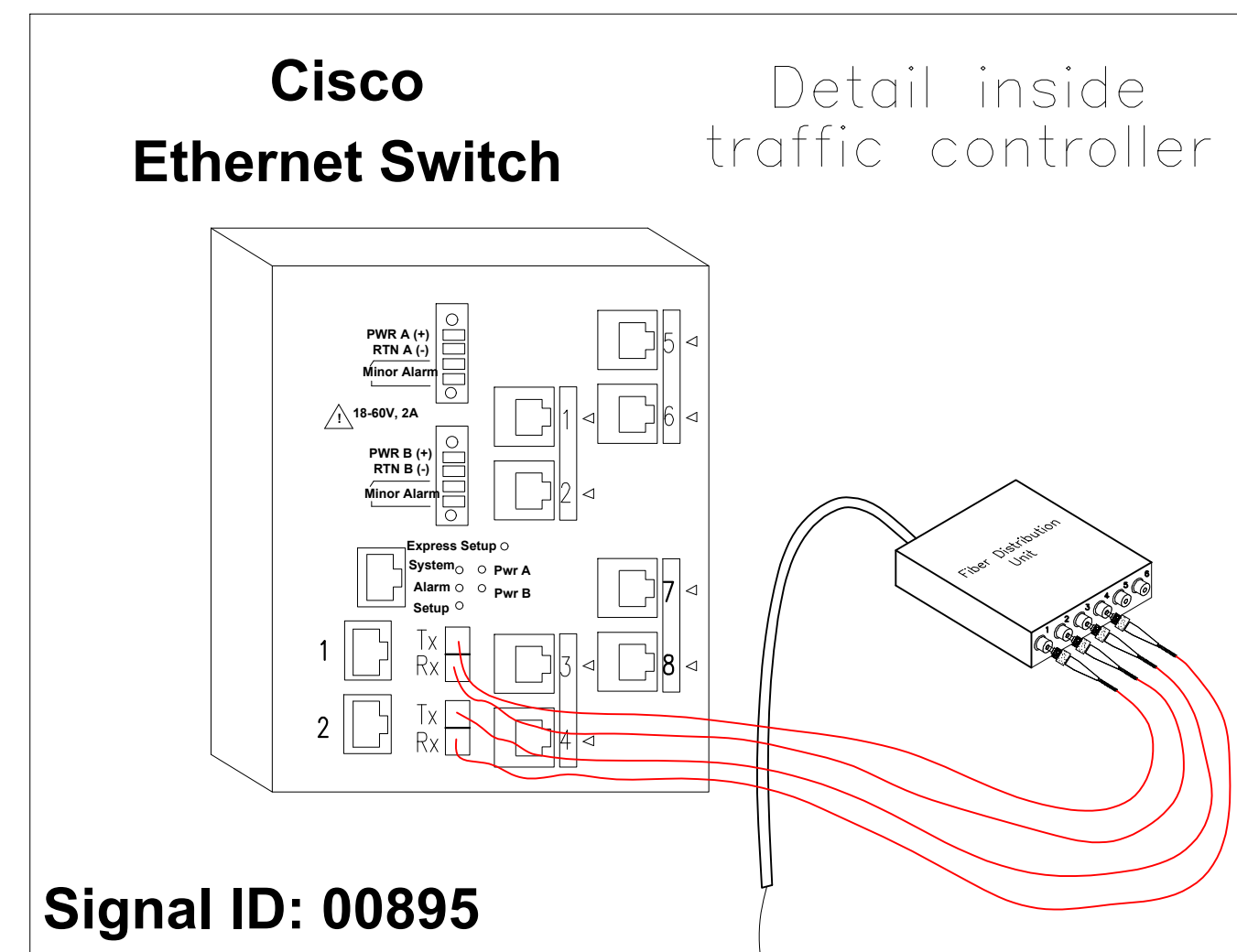
1"=20" SCALE	CAD FILE
CDOT-ITS-##-## JOB NO.	MC Burke PREPARED BY
	IZ Vanosdell APPROVED BY
	IZ Vanosdell CHECKED BY
	09/2021 DATE

**BROOKSHIRE BOULEVARD
CHARLOTTE, NC**

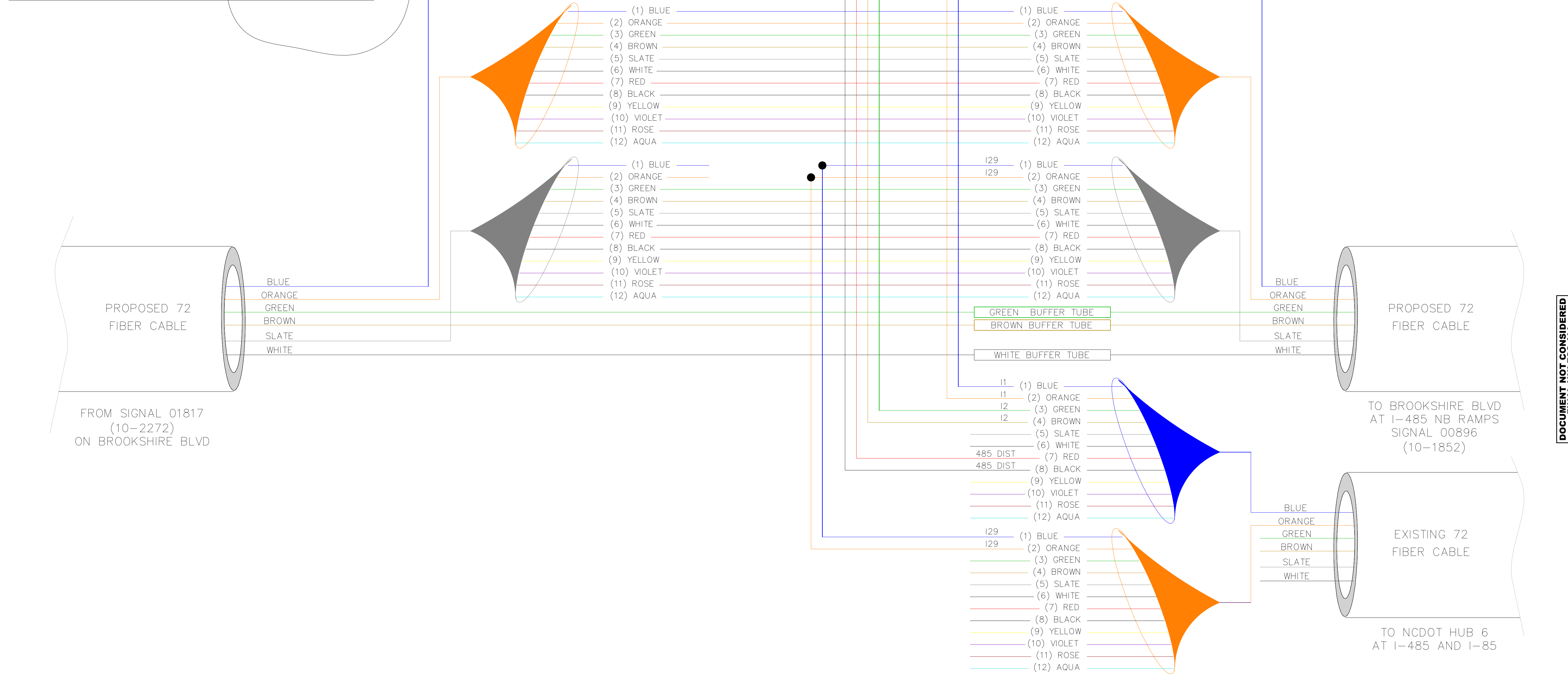
SPLICE DETAILS

SHEET
CR3B
OF
CR9

NEW SPLICE ENCLOSURE IN NEW HANDHOLE (HH5) AT BROOKSHIRE BLVD AT I-485 SB OUTER RAMP SIG. INV# 00895 (10-1846)



COLOR CODE TIA/EIA 598-A		LEGEND	
(1) BLUE	(7) RED	○ EXISTING SPLICE	□ BUFFER TUBE
(2) ORANGE	(8) BLACK	● NEW SPLICE	
(3) GREEN	(9) YELLOW		
(4) BROWN	(10) VIOLET		
(5) SLATE	(11) ROSE		
(6) WHITE	(12) AQUA		



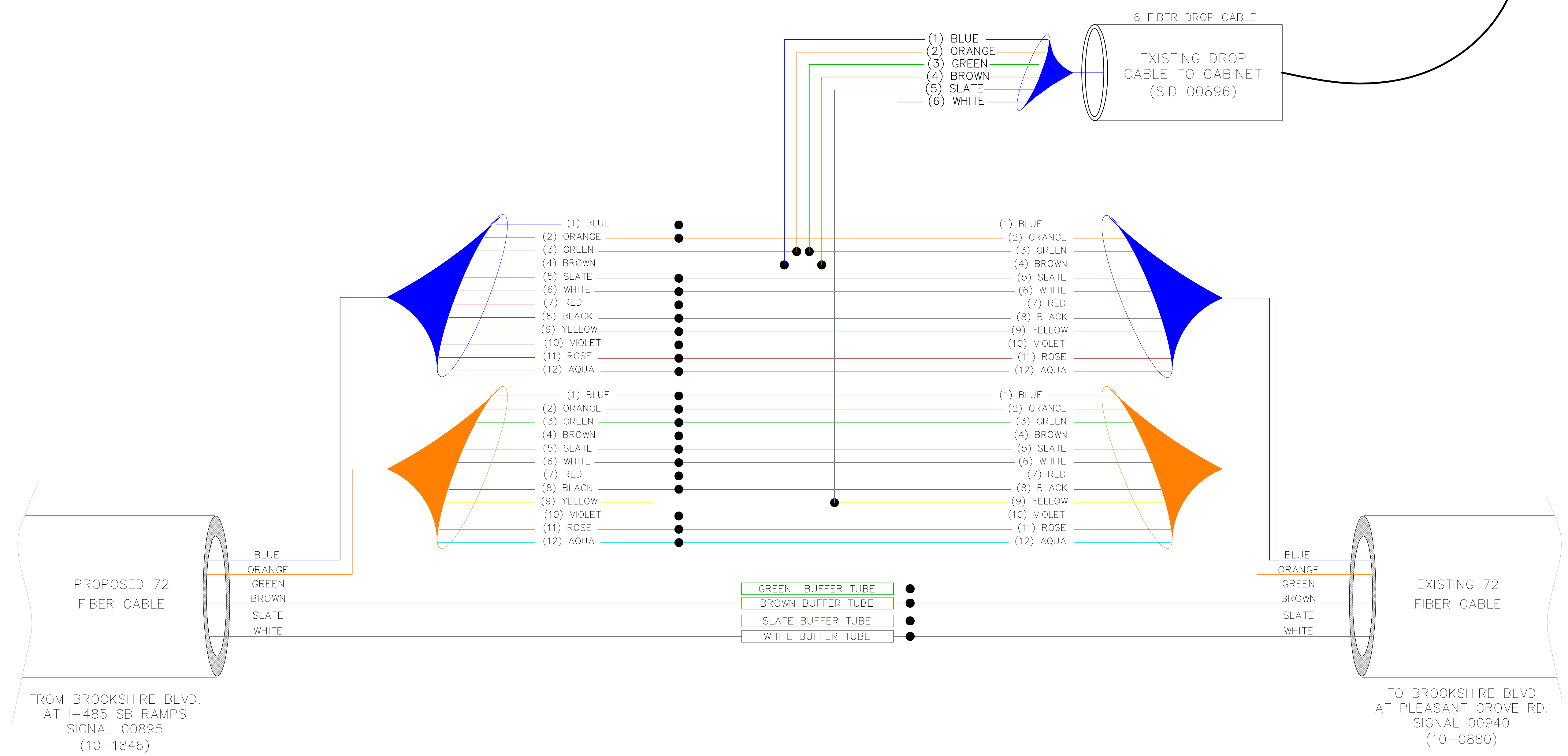
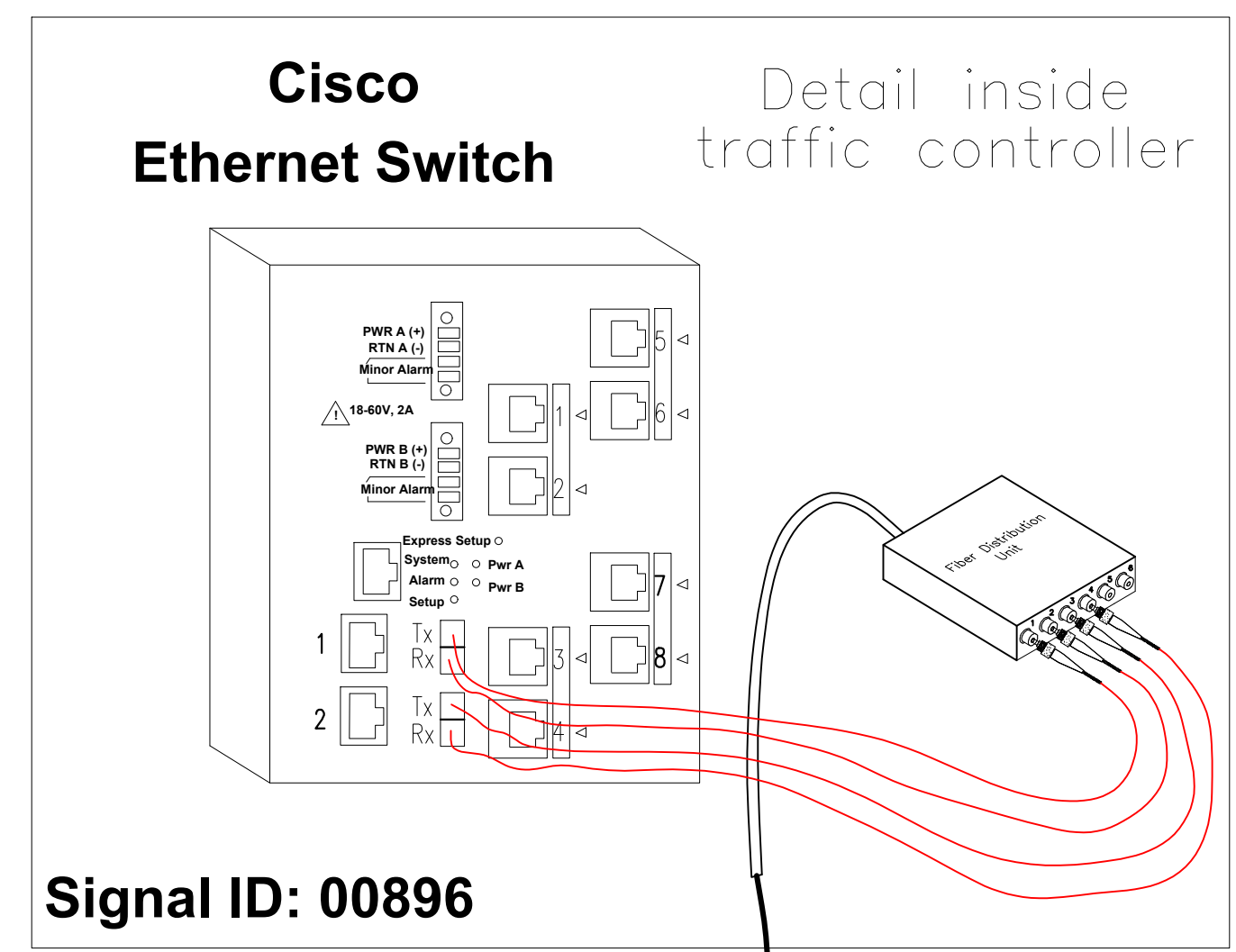
SPLICE CASE IN FIBER HH# 5 (SEE SHEET CR7) AT BROOKSHIRE BLVD

PROJECT REFERENCE NO. I-5973	
SHEET NO. SCP3C	
Plans Prepared By: Kimley»Horn NC License #1-0102 421 Fayetteville Street, Suite 600 Raleigh, NC 27601 919-677-2000	
NO.	DESCRIPTION
BY	
DATE	
1"=20"	SCALE
COPIES-###	JOB NO.
CAD FILE	CAD FILE
MC Burke	PREPARED BY
IZ Vanosdell	CHECKED BY
09/2021	DATE
APPROVED BY	
BROOKSHIRE BOULEVARD CHARLOTTE, NC	SPLICE DETAILS
SHEET CR3C	OF CR9

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MODIFY EXISTING SPLICE ENCLOSURE IN EXISTING MANHOLE (MH2) AT BROOKSHIRE BLVD. AT I-485 NB INNER RAMP SIG. INV# 00896 (10-1853)

COLOR CODE TIA/EIA 598-A		LEGEND	
(1) BLUE	(7) RED	○ EXISTING SPLICE	— BUFFER TUBE
(2) ORANGE	(8) BLACK	● NEW SPLICE	
(3) GREEN	(9) YELLOW		
(4) BROWN	(10) VIOLET		
(5) SLATE	(11) ROSE		
(6) WHITE	(12) AQUA		

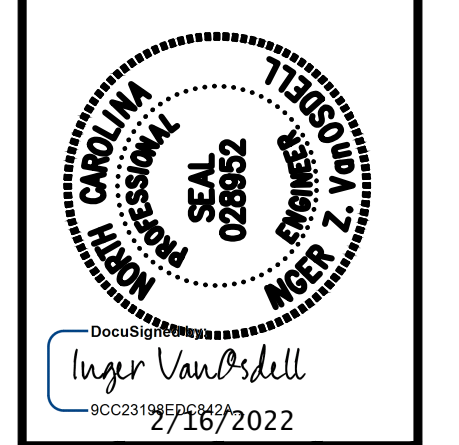


EXISTING SPLICE CASE IN MH# 2 (SEE SHEET CR9) AT BROOKSHIRE BLVD

PROJECT REFERENCE NO.
I-5973
SHEET NO.
SCP3D

Plans Prepared By:
Kimley-Horn
NC License #F-0102
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
919-677-2000

NO.	DATE	BY	DESCRIPTION



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CDOT/ITS:###/###	SCALE	1"=20'
JOB NO.	CAD FILE	
PREPARED BY MC Burke	CHECKED BY IZ Vansodell	DATE 09/2021
APPROVED BY IZ Vansodell		

**BROOKSHIRE BOULEVARD
CHARLOTTE, NC**

SPLICE DETAILS

SHEET **CR3D** OF **CR9**

ITEM #	DESCRIPTION		CR4	CR5	CR6	CR7	CR8	CR9	TOTAL
BM53CM	FIBER CURB MARKER ASSEMBLY UNIT	EA	0	0	0	2	0	4	6
BM71(DB)	ROCK DRILLING ADDER UNIT	LF	0	0	0	9	25	19	53
BM71(DBSR)	SOLID ROCK DRILLING ADDER UNIT	LF	0	0	0	9	25	19	53
BM71(TR)	ROCK EXCAVATING ADDER UNIT	LF	45	33	38	36	0	0	152
CHO-4(1)ST/LC	FIBER OPTIC JUMPER ASSEMBLY UNIT	EA	0	2	0	2	0	0	4
FOE(TRX)(ESU)CI(3200)	ETHERNET SWITCH UNIT/MODULE -CISCO	EA	0	1	0	1	0	0	2
FOE(TRX)(ESU)(SFP)(GLX-R)	ETHERNET SMALL FORM-FACTOR PLUGGABLE PORT	EA	0	2	0	2	0	0	4
HO-1	FIBER OPTIC SPLICING ASSEMBLY UNIT	EA	72	4	0	12	0	74	162
HO-EML	FIBER OPTICAL POWER LEVEL TEST ASSEMBLY UNIT	EA	0	2	0	2	0	0	4
HO-OTDR	FIBER OPTIC SPLICE TEST ASSEMBLY UNIT	EA	63	2	0	2	0	63	130
HUO(72) G	UNDERGROUND FIBER OPTIC CLOSURE ASSEMBLY UNIT	EA	0	1	0	1	0	0	2
UD(2-2 LW)HD	UNDERGROUND CONDUIT ASSEMBLY UNIT	LF	0	10	0	0	0	0	10
UD(2-2 LW)TR	UNDERGROUND CONDUIT ASSEMBLY UNIT	LF	445	325	375	355	0	0	1500
UD(2-2" LW)DB	UNDERGROUND CONDUIT ASSEMBLY UNIT	LF	0	0	0	0	500	0	0
UD(3-2 LW)DB(B)	UNDERGROUND CONDUIT ASSEMBLY UNIT	LF	0	0	0	170	0	370	540
UD-EX	PROOF EXISTING CONDUIT	LF	215	0	0	0	0	0	215
UD-RP	REPAIR EXISTING CONDUIT UNIT	EA	22	0	0	0	0	0	22
UH-2	UNDERGROUND HANDHOLE ASSEMBLY UNIT	EA	0	1	1	2	1	1	6
UH-EBM	ELECTRONIC BALL MARKER	EA	1	1	1	1	1	1	6
UO(6)PATCH PANEL/ML	FIBER OPTIC PATCH PANEL UNIT	EA	0	1	0	1	0	0	2
UO(6)FIBER/ML	UNDERGROUND FIBER OPTIC CABLE STUB UNIT	LF	0	65	0	90	0	0	155
UO(72)	UNDERGROUND FIBER OPTIC CABLE ASSEMBLY UNIT	LF	745	395	425	525	550	455	3190
(W)CC	ACCESS TO THE TRAFFIC SIGNAL CONTROLLER CABINET	EA	0	1	0	1	0	0	2
(W)HUO(T(6))	UNDERGROUND SPLICE CLOSURE REARRANGEMENT UNIT	EA	1	0	0	0	0	1	2
(W)UO(72)	REMOVE EXISTING FIBER CABLE FROM CONDUIT UNIT	LF	0	0	0	180	0	0	180
(W)UM	PLACING NEW CONDUIT OR CABLE IN EXISTING MANHOLE UNIT	EA	0	0	0	0	0	2	2
(W)UM-CB(2)	MANHOLE CONDUIT ENTRANCE UNIT	EA	0	0	0	0	0	2	2
(W)UH	PLACING NEW CONDUIT OR CABLE IN EXISTING HANDHOLE UNIT	EA	1	0	0	1	0	0	2

PROJECT REFERENCE NO.

I-5973

SHEET NO.

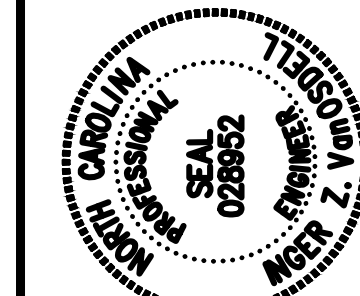
SCP3E

Plans Prepared By:

Kimley»Horn

NC License #1-0102
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
919-677-2000

NO. DATE BY DESCRIPTION



Inger VanOrsell
09/23/2022

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDOT/ITS ##-##	SCALE	CAD FILE	DATE
JOB NO.	1"=20'		09/2021
PREPARED BY	MC Burke	CHECKED BY	IZ Vanosdell
APPROVED BY	IZ Vanosdell		

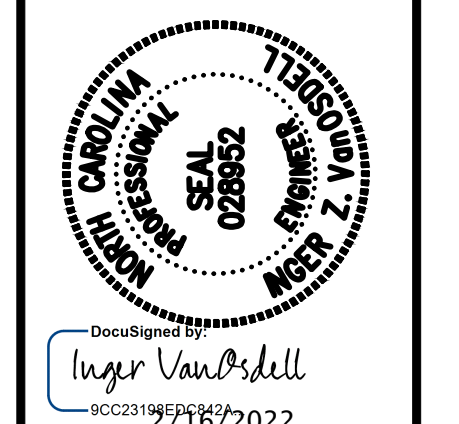
BROOKSHIRE BOULEVARD
CHARLOTTE, NC

SHEET
CR3E
OF
CR9

TABULATION SHEET

Plans Prepared By:
Kimley»Horn
NC License #P-0102
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
919-677-9000

NO.	DATE	BY	DESCRIPTION

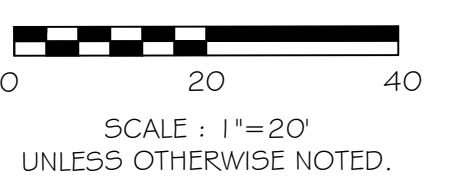


CDOT'S-#/#	JOB NO.	SCALE	1"=20'
MC Burke	PREPARED BY	CAD FILE	IZ VanOrsell
IZ VanOrsell	APPROVED BY	CHECKED BY	09/2021
		DATE	

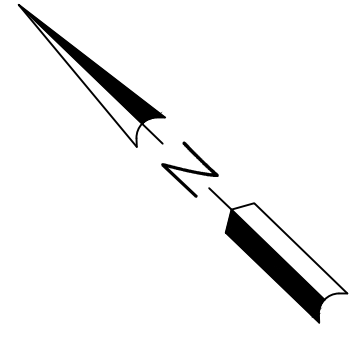
BROOKSHIRE BOULEVARD
CHARLOTTE, NC

CABLE ROUTING
PLANS

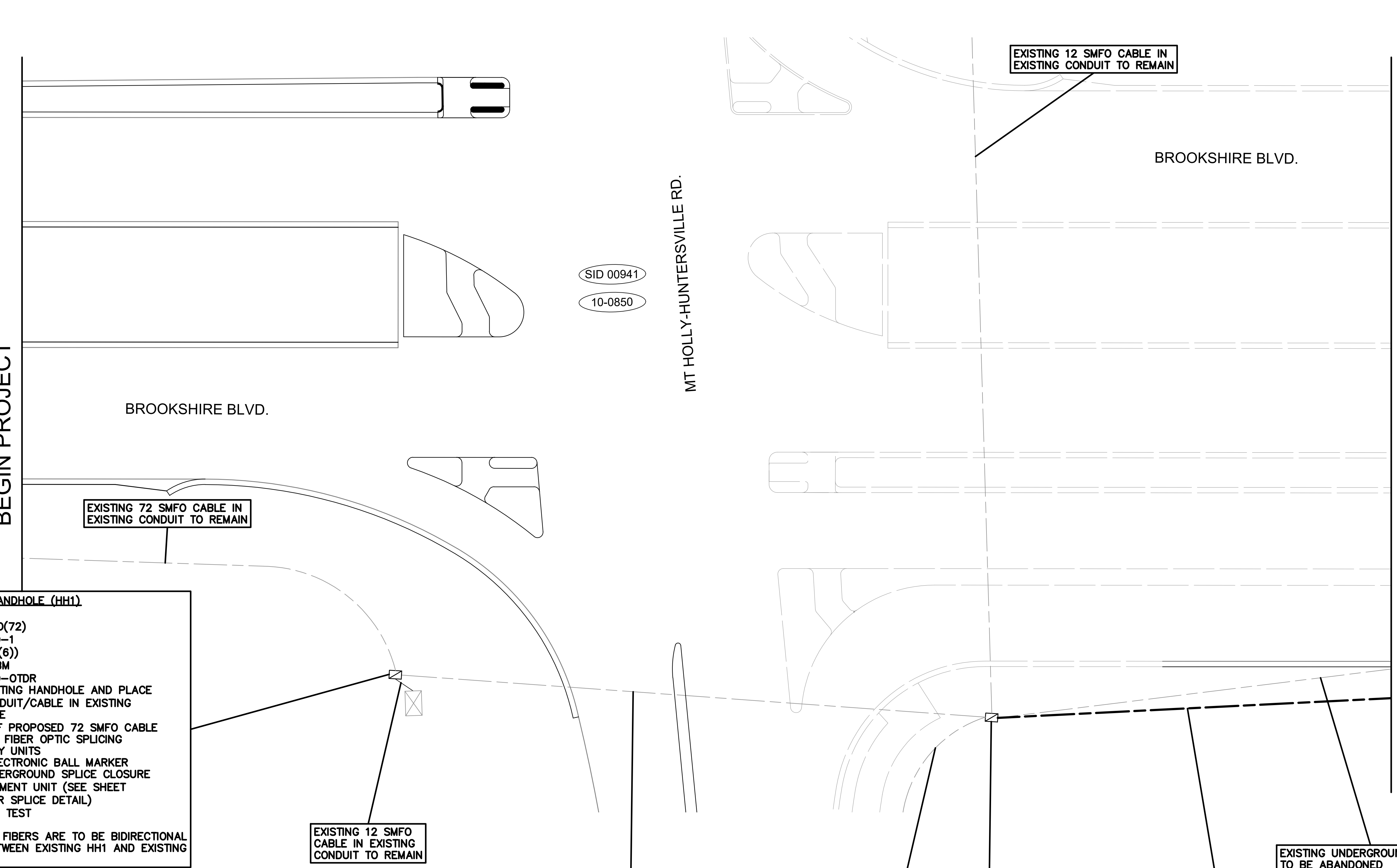
SHEET **CR4** OF **CR9**



MATCH LINE SEE SHEET CR5



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



EXISTING HANDHOLE (HH1)
(W) UH
(I) 35'/UO(72)
(I) 72/HO-1
(W) HUU(T(6))
(I) UH-EBM
(I) 63/HO-OTDR
REUSE EXISTING HANDHOLE AND PLACE NEW CONDUIT/CABLE IN EXISTING HANDHOLE
COIL 35' OF PROPOSED 72 SMFO CABLE
INSTALL 72 FIBER OPTIC SPLICING ASSEMBLY UNITS
INSTALL ELECTRONIC BALL MARKER
REUSE UNDERGROUND SPLICE CLOSURE ARRANGEMENT UNIT (SEE SHEET CR3D FOR SPLICE DETAIL)
F/O SPLICE TEST
NOTE:
ALL SPARE FIBERS ARE TO BE BIDIRECTIONAL TESTED BETWEEN EXISTING HH1 AND EXISTING HH6.

EXISTING 12 SMFO CABLE IN EXISTING CONDUIT TO REMAIN

EXISTING UNDERGROUND CONDUIT
(I) 215'/UD-EX
(I) 215'/UO(72)
PROOF EXISTING CONDUIT
INSTALL 72 SMFO CABLE IN SPARE 2" CONDUIT BETWEEN EX. HH1 AND EX. HH2
NOTE: TWO 12 SMFO CABLES TO REMAIN

EXISTING 12 SMFO CABLE IN EXISTING CONDUIT TO REMAIN

EXISTING HANDHOLE (HH2)
(W) UH
(I) 50'/UO(72)
(I) UH-EBM
REUSE EXISTING HANDHOLE AND PLACE NEW CONDUIT/CABLE IN EXISTING HANDHOLE
COIL 50' OF PROPOSED 72 SMFO CABLE
INSTALL ELECTRONIC BALL MARKER

TRENCH
(I) 445'/UD (2-2 LW) TR
(I) 445'/UO(72)
INSTALL TWO 2" CONDUITS BETWEEN EX. HH2 AND HH3
INSTALL 72 SMFO CABLE IN NEW CONDUIT

EXISTING UNDERGROUND CONDUIT TO BE ABANDONED

SID 00941
10-0850

- NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO CUT EXISTING CONDUITS IN NEW AND EXISTING HANDHOLE FOR 6 INCH STUB UP.
 - ALL UNUSED CONDUITS TO BE CAPPED AND TAPE SEALED. USED CONDUITS TO BE SEALED WITH SEALING COMPOUND (OR DUCT PLUGS).
 - CONDUIT AND FIBER QUANTITIES ARE MEASURED AND LABELED FROM HANDHOLE TO HANDHOLE AND/OR POLE TO POLE AND NOT PER SHEET.
 - CONTRACTOR TO COORDINATE WITH CDOT ENGINEER BEFORE EXISTING FIBER IS CUT TO DETERMINE OUTAGE TIMES.
 - NEW 72 SMFO CABLE IS TO BE INSTALLED OUTSIDE OF CONSTRUCTION ZONE AND SPLICED INTO EXISTING 72 SMFO CABLE AT EX. HH#1(CR3A) AND EX. MH#2(CR3D).
 - EXISTING SMFO CABLE BETWEEN EXISTING HH1 AND EX. MH#2 IS CUT AND REMOVED ONCE NEW CONDUIT AND FIBER HAS BEEN INSTALLED AND APPROVED BY ENGINEER.

BEGIN PROJECT

MT HOLLY-HUNTERSVILLE RD.

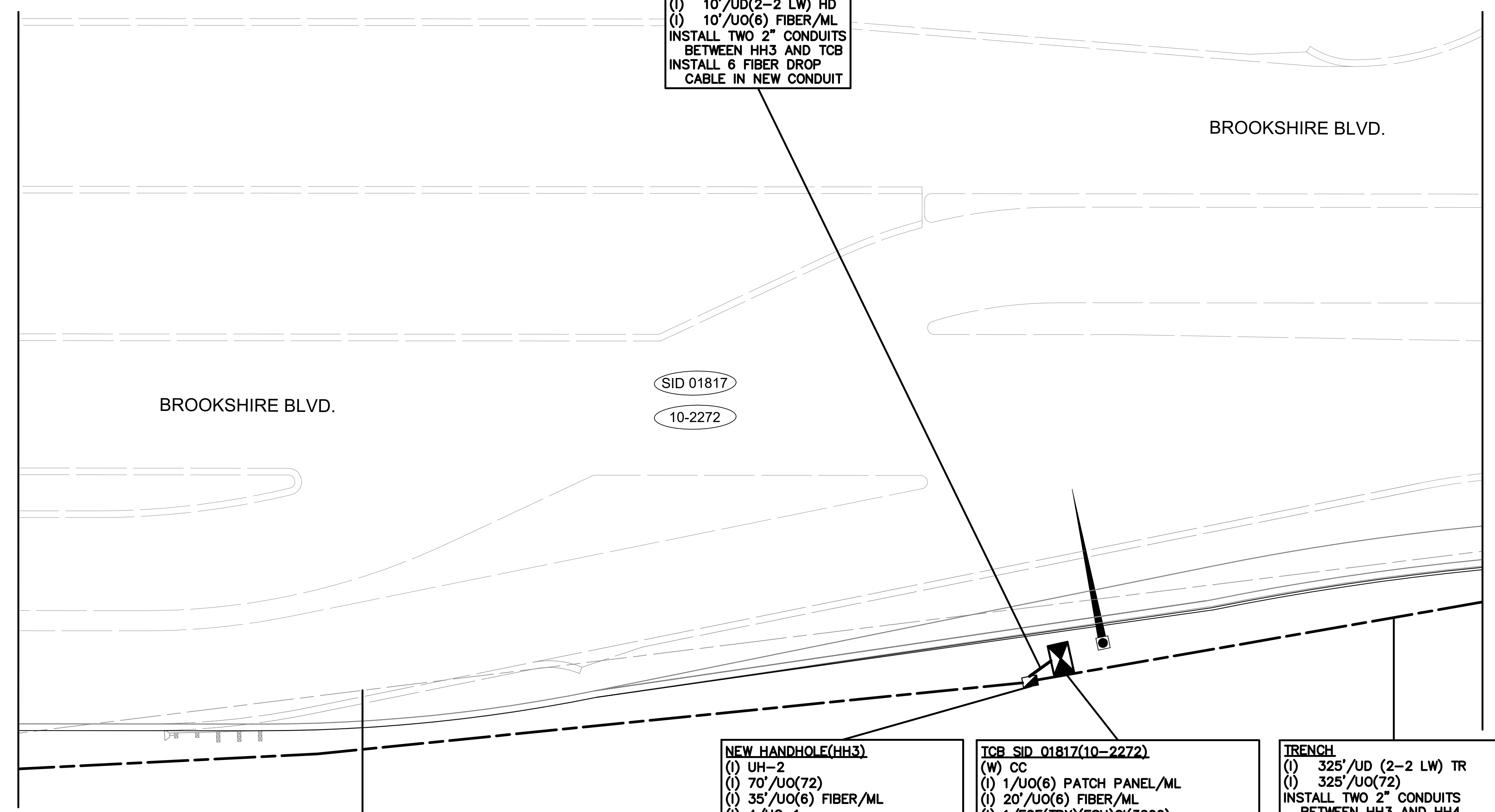
BROOKSHIRE BLVD.

BROOKSHIRE BLVD.

EXISTING 12 SMFO CABLE IN EXISTING CONDUIT TO REMAIN

EXISTING 72 SMFO CABLE IN EXISTING CONDUIT TO REMAIN

MATCH LINE SEE SHEET CR4



HAND DIG
 (1) 10'/UD(2-2 LW) HD
 (1) 10'/UO(6) FIBER/ML
 INSTALL TWO 2" CONDUITS
 BETWEEN HH3 AND TCB
 INSTALL 6 FIBER DROP
 CABLE IN NEW CONDUIT

SID 01817

10-2272

BROOKSHIRE BLVD.

BROOKSHIRE BLVD.

MATCH LINE SEE SHEET CR6

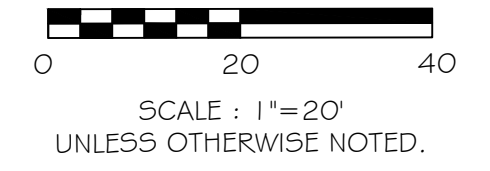
EXISTING UNDERGROUND
CONDUIT TO BE ABANDONED

NEW HANDHOLE(HH3)
 (1) UH-2
 (1) 70'/UO(72)
 (1) 35'/UO(6) FIBER/ML
 (1) 4/HO-1
 (1) HUO(72)G
 (1) UH-EBM
 UNDERGROUND HANDHOLE UNIT
 24X36X30 CDOT FIBER OPTIC
 COIL 70' OF 72 SMFO CABLE
 COIL 35' OF 6 FIBER DROP CABLE
 INSTALL 4 FIBER OPTIC SPLICING
 ASSEMBLY UNITS
 INSTALL UNDERGROUND SPLICE
 ENCLOSURE (SEE SHEET CR3B
 FOR SPLICE DETAIL)
 INSTALL ELECTRONIC BALL MARKER

TCB_SID_01817(10-2272)
 (W) CC
 (1) 1/UO(6) PATCH PANEL/ML
 (1) 20'/UO(6) FIBER/ML
 (1) 1/FOE(TRX)(ESU)CI(3200)
 (1) 2/FOE(TRX)(ESU)(SFP)(GLX-R)
 (1) 2/CHO-4 (1) ST/LC
 (1) 2/HO-EML
 (1) 2/HO-OTDR
 ACCESS TO THE TRAFFIC SIGNAL
 CONTROLLER CABINET
 INSTALL ONE 6 FIBER OPTIC PATCH
 PANEL UNIT
 COIL 20' OF 6 SMFO DROP CABLE
 INSTALL ONE 8 PORT CISCO ETHERNET
 SWITCH (IE 3200)
 INSTALL TWO CISCO SFPs (GLX-R)
 INSTALL TWO FIBER OPTIC JUMPER UNITS
 F/O POWER LEVEL TEST
 F/O SPLICE TEST
 NOTE:
 EML TEST FROM PORTS 1 AND 2
 LEAVING THIS TCB TO PORTS 3 AND
 4 AT TCB 00895 (10-1846)

TRENCH
 (1) 325'/UD (2-2 LW) TR
 (1) 325'/UO(72)
 INSTALL TWO 2" CONDUITS
 BETWEEN HH3 AND HH4
 INSTALL 72 SMFO CABLE IN NEW
 CONDUIT

- NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.
 2. CONTRACTOR TO CUT EXISTING CONDUITS IN NEW AND EXISTING HANDHOLE FOR 6 INCH STUB UP.
 3. ALL UNUSED CONDUITS TO BE CAPPED AND TAPE SEALED. USED CONDUITS TO BE SEALED WITH SEALING COMPOUND (OR DUCT PLUGS).
 4. CONDUIT AND FIBER QUANTITIES ARE MEASURED AND LABELED FROM HANDHOLE TO HANDHOLE AND/OR POLE TO POLE AND NOT PER SHEET.
 5. CONTRACTOR TO COORDINATE WITH CDOT ENGINEER BEFORE EXISTING FIBER IS CUT TO DETERMINE OUTAGE TIMES.
 6. NEW 72 SMFO CABLE IS TO BE INSTALLED OUTSIDE OF CONSTRUCTION ZONE AND SPLICED INTO EXISTING 72 SMFO CABLE AT EX. HH#1(CR3A) AND EX. MH#2(CR3D).
 7. EXISTING SMFO CABLE BETWEEN EXISTING HH1 AND EX. MH#2 IS CUT AND REMOVED ONCE NEW CONDUIT AND FIBER HAS BEEN INSTALLED AND APPROVED BY ENGINEER.



PROJECT REFERENCE NO.

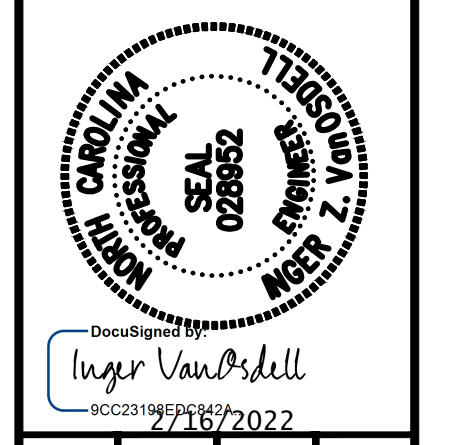
I-5973

SHEET NO.

SCP5

Plans Prepared By:
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 919-677-2000

NO.	DATE	BY	DESCRIPTION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDOT'S-#/#	JOB NO.	CAD FILE	SCALE: 1"=20'
PREPARED BY: MC Burke	CHECKED BY: IZ Vanosdell	DATE: 09/2021	
APPROVED BY: IZ Vanosdell			

**BROOKSHIRE BOULEVARD
 CHARLOTTE, NC**

**CABLE ROUTING
 PLANS**

SHEET CR5 OF CR9

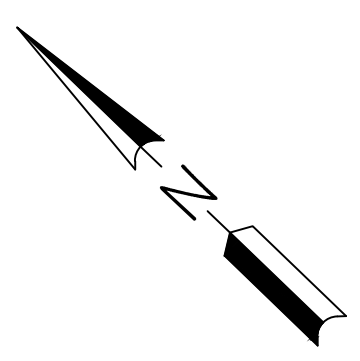
MATCH LINE SEE SHEET CR5

SMITH FARM RD.

BROOKSHIRE BLVD.

BROOKSHIRE BLVD.

MATCH LINE SEE SHEET CR7

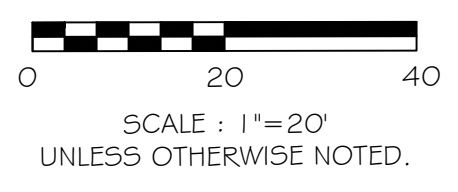


- NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.
 2. CONTRACTOR TO CUT EXISTING CONDUITS IN NEW AND EXISTING HANDHOLE FOR 6 INCH STUB UP.
 3. ALL UNUSED CONDUITS TO BE CAPPED AND TAPE SEALED. USED CONDUITS TO BE SEALED WITH SEALING COMPOUND (OR DUCT PLUGS).
 4. CONDUIT AND FIBER QUANTITIES ARE MEASURED AND LABELED FROM HANDHOLE TO HANDHOLE AND/OR POLE TO POLE AND NOT PER SHEET.
 5. CONTRACTOR TO COORDINATE WITH CDOT ENGINEER BEFORE EXISTING FIBER IS CUT TO DETERMINE OUTAGE TIMES.
 6. NEW 72 SMFO CABLE IS TO BE INSTALLED OUTSIDE OF CONSTRUCTION ZONE AND SPLICED INTO EXISTING 72 SMFO CABLE AT EX. HH#1(CR3A) AND EX. MH#2(CR3D).
 7. EXISTING SMFO CABLE BETWEEN EXISTING HH1 AND EX. MH#2 IS CUT AND REMOVED ONCE NEW CONDUIT AND FIBER HAS BEEN INSTALLED AND APPROVED BY ENGINEER.

NEW HANDHOLE(HH4)
 (1) UH-2
 (1) 50' /UO(72)
 (1) UH-EBM
 UNDERGROUND HANDHOLE UNIT
 24X36X30 CDOT FIBER OPTIC
 COIL 50' OF 72 SMFO CABLE
 INSTALL ELECTRONIC BALL MARKER

TRENCH
 (1) 375' /UD (2-2 LW) TR
 (1) 375' /UO(72)
 INSTALL TWO 2" CONDUITS
 BETWEEN HH4 AND HH5
 INSTALL 72 SMFO CABLE IN NEW
 CONDUIT

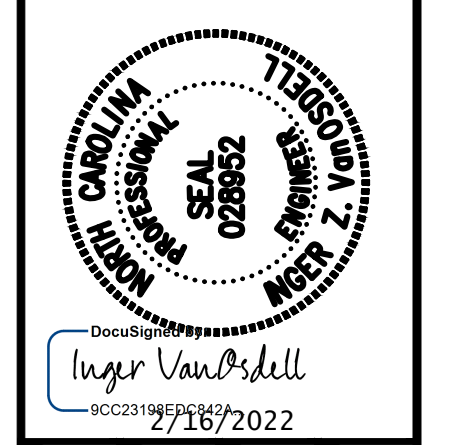
EXISTING UNDERGROUND
 CONDUIT TO BE ABANDONED



PROJECT REFERENCE NO.
I-5973
 SHEET NO.
SCP6

Plans Prepared By:
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 919-677-2000

NO.	DATE	BY	DESCRIPTION



DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED

CDOT/ITS:##/##	1"=20'	SCALE
JOB NO.	CAD FILE	
MC Burke PREPARED BY	IZ VanOrsell CHECKED BY	DATE
IZ VanOrsell APPROVED BY		09/2021

**BROOKSHIRE BOULEVARD
 CHARLOTTE, NC**

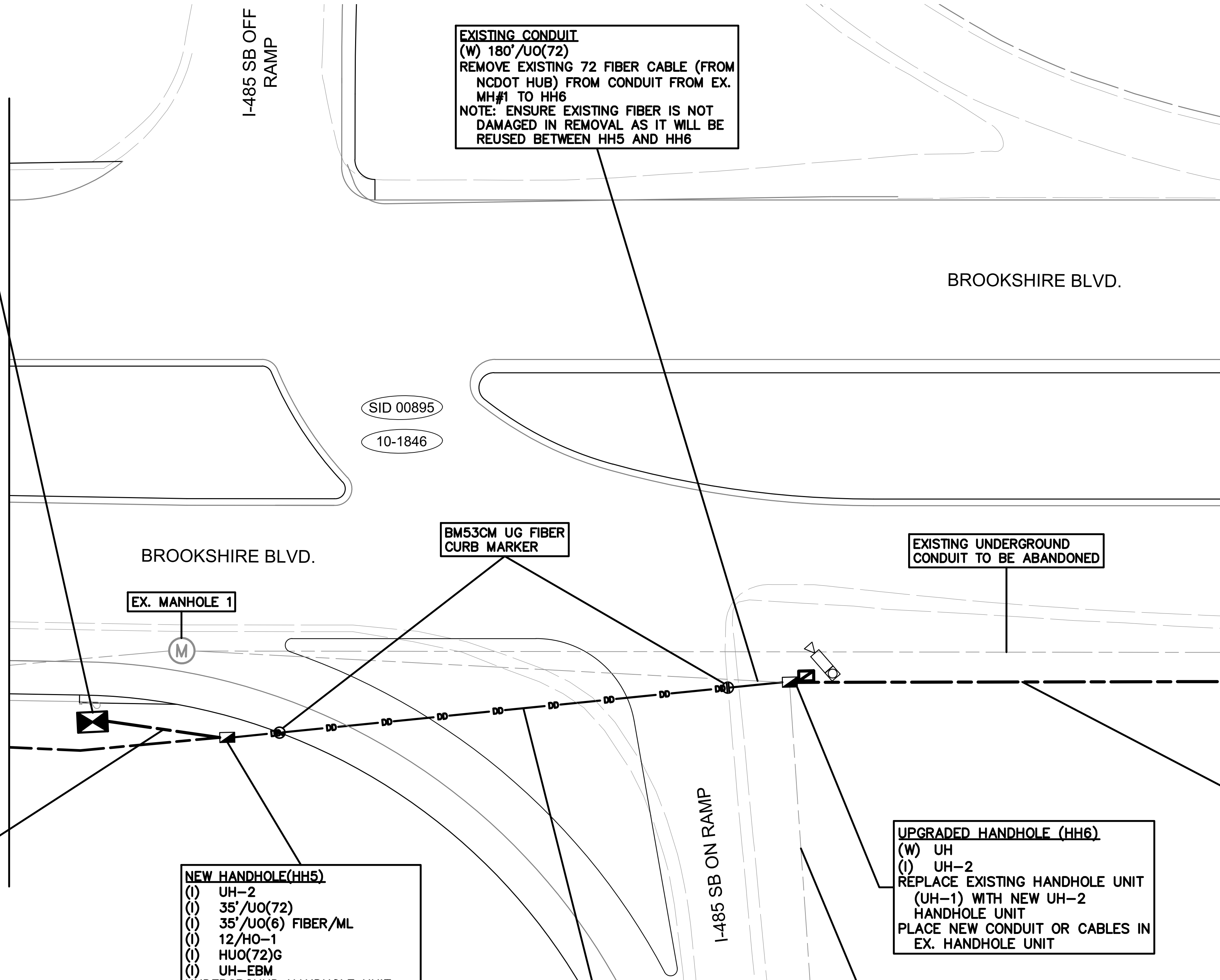
**CABLE ROUTING
 PLANS**

SHEET
CR6
 OF
CR9

TCB SID 00895(10-1846)
 (W) CC
 (I) 1/UO(6) PATCH PANEL/ML
 (I) 20'/UO(6) FIBER/ML
 (I) 1/FOE(TRX)(ESU)CI(3200)
 (I) 2/FOE(TRX)(ESU)(SFP)(GLX-R)
 (I) 2/CHO-4 (1) ST/LC
 (I) 2/HO-EML
 (I) 2/HO-OTDR
 ACCESS TO THE TRAFFIC SIGNAL CONTROLLER CABINET
 INSTALL ONE 6 FIBER OPTIC PATCH PANEL UNIT
 COIL 20' OF 6 SMFO DROP CABLE
 INSTALL ONE 8 PORT CISCO ETHERNET SWITCH (IE 3200)
 INSTALL TWO CISCO SFPs (GLX-R)
 INSTALL TWO FIBER OPTIC JUMPER UNITS
 F/O POWER LEVEL TEST
 F/O SPLICE TEST
 NOTE:
 EML TEST FROM PORTS 3 AND 4 LEAVING THIS TCB TO PORTS 1 AND 2 AT TCB 00896 (10-2272)
 RELOCATE EXISTING ENCODER AND ASSOCIATED POWER SUPPLY AND SURGE SUPPRESSER AND CCTV CAMERA POWER SUPPLY AND SURGE SUPPRESSER FROM EXISTING CABINET TO NEW CABINET AND RECONNECT TO EXISTING CCTV CAMERA

MATCH LINE SEE SHEET CR6

MATCHLINE SEE SHEET CR8



EXISTING CONDUIT
 (W) 180'/UO(72)
 REMOVE EXISTING 72 FIBER CABLE (FROM NCDOT HUB) FROM CONDUIT FROM EX. MH#1 TO HH6
 NOTE: ENSURE EXISTING FIBER IS NOT DAMAGED IN REMOVAL AS IT WILL BE REUSED BETWEEN HH5 AND HH6

SID 00895
 10-1846

TRENCH
 (I) 35'/UD(2-2 LW) TR
 (I) 35'/UO(6) FIBER/ML
 INSTALL TWO 2" CONDUITS BETWEEN HH5 AND TCB
 INSTALL 6 FIBER DROP CABLE IN NEW CONDUIT

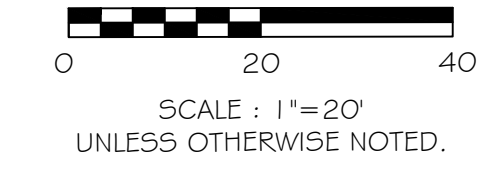
NEW HANDHOLE(HH5)
 (I) UH-2
 (I) 35'/UO(72)
 (I) 35'/UO(6) FIBER/ML
 (I) 12/HO-1
 (I) HUO(72)G
 (I) UH-EBM
 UNDERGROUND HANDHOLE UNIT 24X36X30 CDOT FIBER OPTIC
 COIL 35' OF PROPOSED 72 SMFO CABLE
 COIL 35' OF 6 FIBER DROP CABLE
 INSTALL 12 FIBER OPTIC SPLICING ASSEMBLY UNITS
 INSTALL UNDERGROUND SPLICE ENCLOSURE (SEE SHEET CR3C FOR SPLICE DETAIL)
 INSTALL ELECTRONIC BALL MARKER

DIRECTIONAL BORE
 (I) 170'/UD(3-2 LW) DB (B)
 (I) 170'/UO(72)
 INSTALL THREE 2" CONDUITS BETWEEN HH5 AND EX. HH6 WITH CONDUIT BUNDLING
 INSTALL ONE PROPOSED AND ONE EXISTING 72 SMFO CABLE (FROM NCDOT HUB) IN NEW CONDUIT

UPGRADED HANDHOLE (HH6)
 (W) UH
 (I) UH-2
 REPLACE EXISTING HANDHOLE UNIT (UH-1) WITH NEW UH-2 HANDHOLE UNIT
 PLACE NEW CONDUIT OR CABLES IN EX. HANDHOLE UNIT

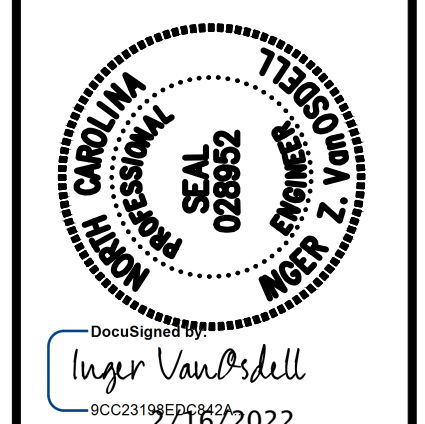
TRENCH
 (I) 320'/UD(2-2 LW) TR
 (I) 320'/UO(72)
 INSTALL TWO 2" CONDUITS BETWEEN HH6 AND HH7
 INSTALL 72 SMFO CABLE IN NEW CONDUIT

- NOTES:
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO CUT EXISTING CONDUITS IN NEW AND EXISTING HANDHOLE FOR 6 INCH STUB UP.
 - ALL UNUSED CONDUITS TO BE CAPPED AND TAPE SEALED. USED CONDUITS TO BE SEALED WITH SEALING COMPOUND (OR DUCT PLUGS).
 - CONDUIT AND FIBER QUANTITIES ARE MEASURED AND LABELED FROM HANDHOLE TO HANDHOLE AND/OR POLE TO POLE AND NOT PER SHEET.
 - CONTRACTOR TO COORDINATE WITH CDOT ENGINEER BEFORE EXISTING FIBER IS CUT TO DETERMINE OUTAGE TIMES.
 - NEW 72 SMFO CABLE IS TO BE INSTALLED OUTSIDE OF CONSTRUCTION ZONE AND SPLICED INTO EXISTING 72 SMFO CABLE AT EX. HH#1(CR3A) AND EX. MH#2(CR3D).
 - EXISTING SMFO CABLE BETWEEN EXISTING HH1 AND EX. MH#2 IS CUT AND REMOVED ONCE NEW CONDUIT AND FIBER HAS BEEN INSTALLED AND APPROVED BY ENGINEER.



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NO.	DATE	BY	DESCRIPTION



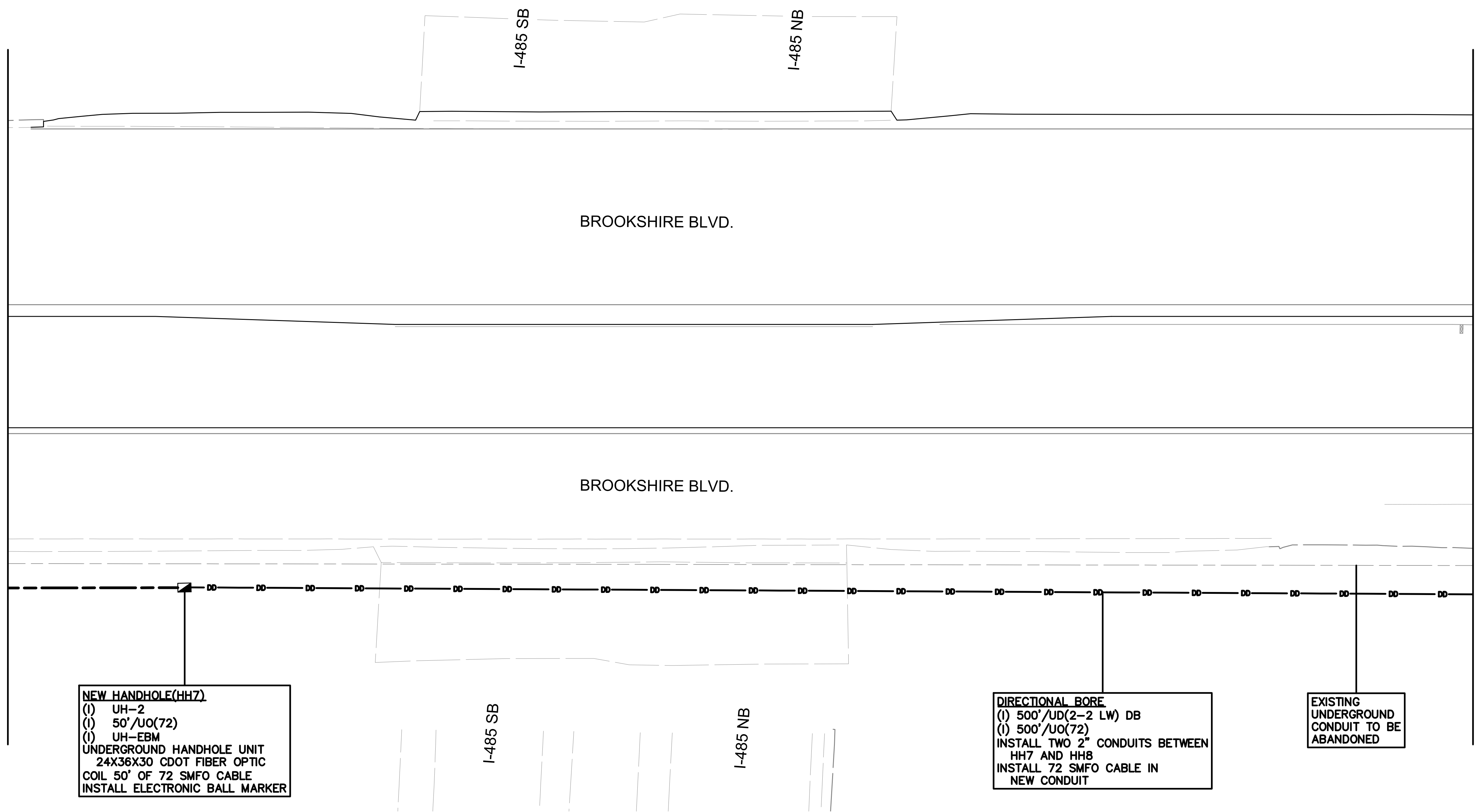
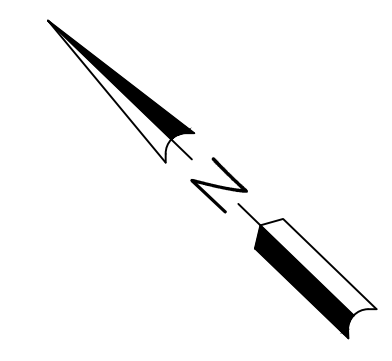
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	CAD FILE	
CDOT'S-#/#/#		
PREPARED BY	MC Burke	
CHECKED BY	IZ Vanosdell	
DATE	09/2021	
APPROVED BY	IZ Vanosdell	

BROOKSHIRE BOULEVARD CHARLOTTE, NC

CABLE ROUTING PLANS

SHEET CR7 OF CR9

MATCH LINE SEE SHEET CR7

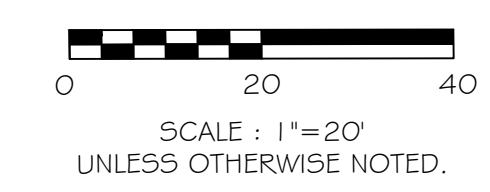


NEW HANDHOLE(HH7)
 (1) UH-2
 (1) 50'/UO(72)
 (1) UH-EBM
 UNDERGROUND HANDHOLE UNIT
 24X36X30 CDOT FIBER OPTIC
 COIL 50' OF 72 SMFO CABLE
 INSTALL ELECTRONIC BALL MARKER

DIRECTIONAL BORE
 (1) 500'/UD(2-2 LW) DB
 (1) 500'/UO(72)
 INSTALL TWO 2" CONDUITS BETWEEN
 HH7 AND HH8
 INSTALL 72 SMFO CABLE IN
 NEW CONDUIT

EXISTING UNDERGROUND CONDUIT TO BE ABANDONED

- NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO CUT EXISTING CONDUITS IN NEW AND EXISTING HANDHOLE FOR 6 INCH STUB UP.
 - ALL UNUSED CONDUITS TO BE CAPPED AND TAPE SEALED. USED CONDUITS TO BE SEALED WITH SEALING COMPOUND (OR DUCT PLUGS).
 - CONDUIT AND FIBER QUANTITIES ARE MEASURED AND LABELED FROM HANDHOLE TO HANDHOLE AND/OR POLE TO POLE AND NOT PER SHEET.
 - CONTRACTOR TO COORDINATE WITH CDOT ENGINEER BEFORE EXISTING FIBER IS CUT TO DETERMINE OUTAGE TIMES.
 - NEW 72 SMFO CABLE IS TO BE INSTALLED OUTSIDE OF CONSTRUCTION ZONE AND SPLICED INTO EXISTING 72 SMFO CABLE AT EX. HH#1(CR3A) AND EX. MH#2(CR3D).
 - EXISTING SMFO CABLE BETWEEN EXISTING HH1 AND EX. MH#2 IS CUT AND REMOVED ONCE NEW CONDUIT AND FIBER HAS BEEN INSTALLED AND APPROVED BY ENGINEER.

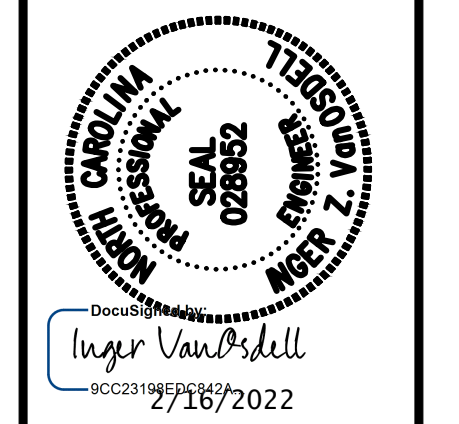


MATCHLINE SEE SHEET CR9

PROJECT REFERENCE NO.
I-5973
 SHEET NO.
SCP8

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 919-677-2000

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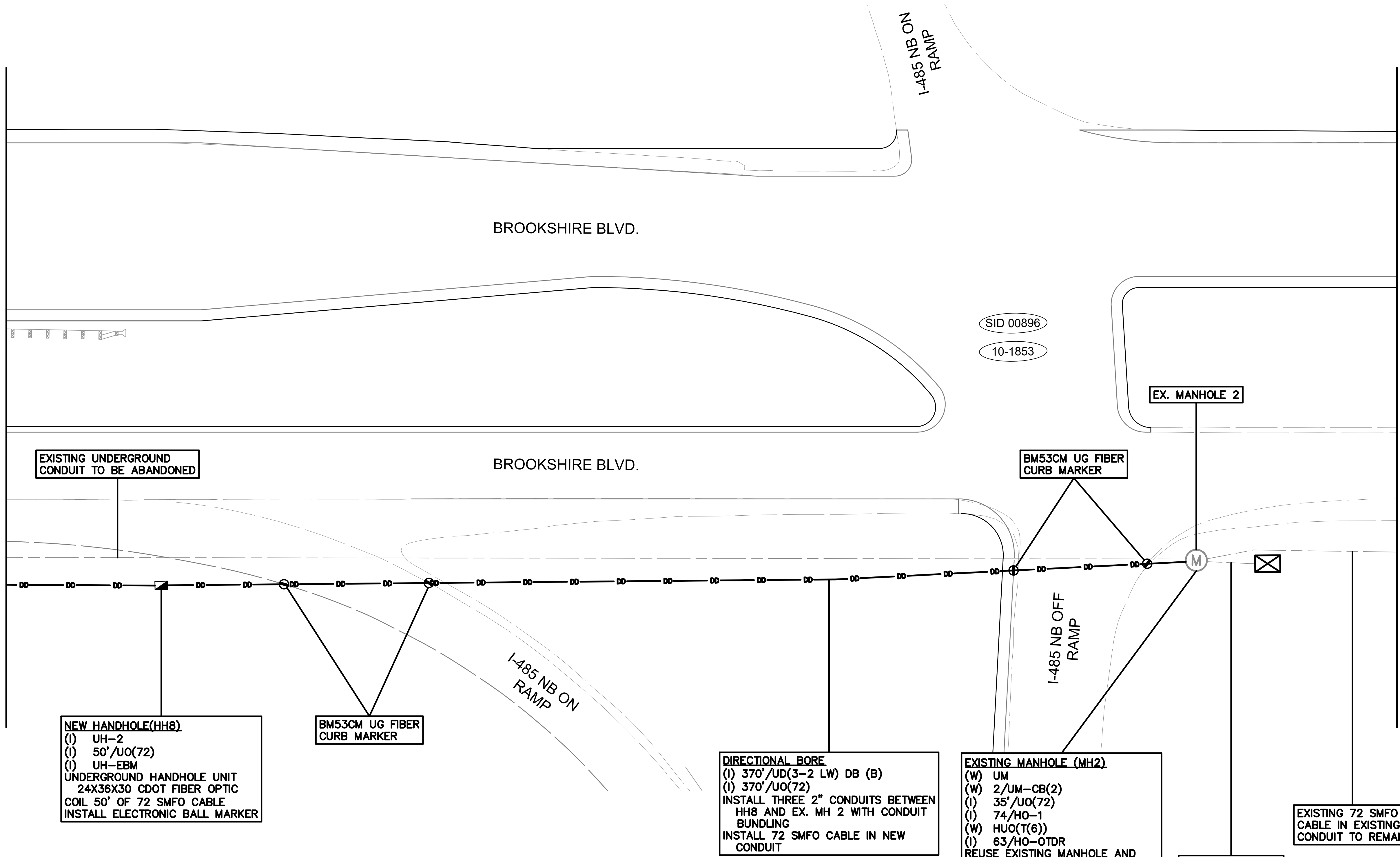
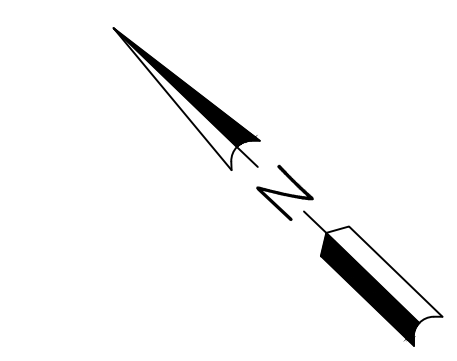


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

COORDINATOR JOB NO.	SCALE 1"=20'	CAD FILE
MC Burke PREPARED BY	IZ Vanosdel CHECKED BY	DATE 09/20/21
IZ Vanosdel APPROVED BY		

BROOKSHIRE BOULEVARD CHARLOTTE, NC
CABLE ROUTING PLANS
 SHEET CR8 OF CR9

MATCH LINE SEE SHEET CR8



EXISTING UNDERGROUND CONDUIT TO BE ABANDONED

NEW HANDHOLE(HH8)
 (1) UH-2
 (1) 50'/UO(72)
 (1) UH-EBM
 UNDERGROUND HANDHOLE UNIT
 24X36X30 CDOT FIBER OPTIC
 COIL 50' OF 72 SMFO CABLE
 INSTALL ELECTRONIC BALL MARKER

BM53CM UG FIBER CURB MARKER

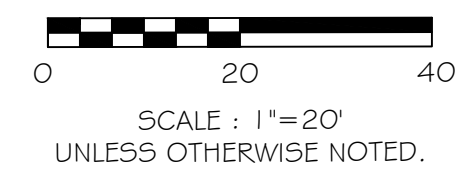
DIRECTIONAL BORE
 (1) 370'/UD(3-2 LW) DB (B)
 (1) 370'/UO(72)
 INSTALL THREE 2" CONDUITS BETWEEN
 HH8 AND EX. MH 2 WITH CONDUIT
 BUNDLING
 INSTALL 72 SMFO CABLE IN NEW
 CONDUIT

EXISTING MANHOLE (MH2)
 (W) UM
 (W) 2/UM-CB(2)
 (1) 35'/UO(72)
 (1) 74/HO-1
 (W) HUO(T(6))
 (1) 63/HO-OTDR
 REUSE EXISTING MANHOLE AND
 PLACE NEW CONDUIT AND
 CABLE IN EXISTING MANHOLE
 UNIT
 TWO 2" MANHOLE CONDUIT
 ENTRANCE UNITS
 COIL 35' OF PROPOSED 72 SMFO
 CABLE
 INSTALL 74 FIBER OPTIC SPLICING
 ASSEMBLY UNITS
 REUSE UNDERGROUND SPLICE
 CLOSURE ARRANGEMENT UNIT (SEE
 SHEET CR3D FOR SPLICE DETAIL)
 F/O SPLICE TEST
 NOTE:
 ALL SPARE FIBERS ARE TO BE
 BIDIRECTIONAL TESTED BETWEEN
 EX. HH1 AND EXISTING MH2

EXISTING 6 FIBER
 DROP CABLE IN
 EXISTING CONDUIT
 TO REMAIN

EXISTING 72 SMFO
 CABLE IN EXISTING
 CONDUIT TO REMAIN

- NOTES:**
1. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.
 2. CONTRACTOR TO CUT EXISTING CONDUITS IN NEW AND EXISTING HANDHOLE FOR 6 INCH STUB UP.
 3. ALL UNUSED CONDUITS TO BE CAPPED AND TAPE SEALED. USED CONDUITS TO BE SEALED WITH SEALING COMPOUND (OR DUCT PLUGS).
 4. CONDUIT AND FIBER QUANTITIES ARE MEASURED AND LABELED FROM HANDHOLE TO HANDHOLE AND/OR POLE TO POLE AND NOT PER SHEET.
 5. CONTRACTOR TO COORDINATE WITH CDOT ENGINEER BEFORE EXISTING FIBER IS CUT TO DETERMINE OUTAGE TIMES.
 6. NEW 72 SMFO CABLE IS TO BE INSTALLED OUTSIDE OF CONSTRUCTION ZONE AND SPLICED INTO EXISTING 72 SMFO CABLE AT EX. HH#1(CR3A) AND EX. MH#2(CR3D).
 7. EXISTING SMFO CABLE BETWEEN EXISTING HH1 AND EX. MH#2 IS CUT AND REMOVED ONCE NEW CONDUIT AND FIBER HAS BEEN INSTALLED AND APPROVED BY ENGINEER.



PROJECT REFERENCE NO.

I-5973

SHEET NO.

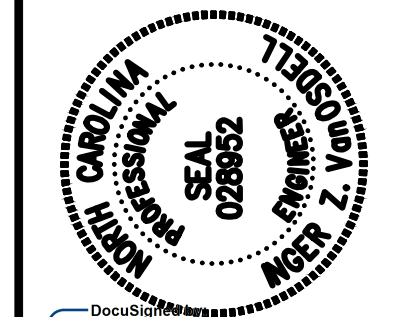
SCP9

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 919-677-2000

NO.	DATE	BY	DESCRIPTION



Inger VanOrsdel
 12/16/2022

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDOT/ITS-##/##	SCALE	1"=20'
JOB NO.	CAD FILE	
MC Burke	CHECKED BY	IZ Vanosdell
PREPARED BY	DATE	09/2021
IZ Vanosdell	APPROVED BY	

BROOKSHIRE BOULEVARD CHARLOTTE, NC

CABLE ROUTING PLANS

SHEET CR9 OF CR9