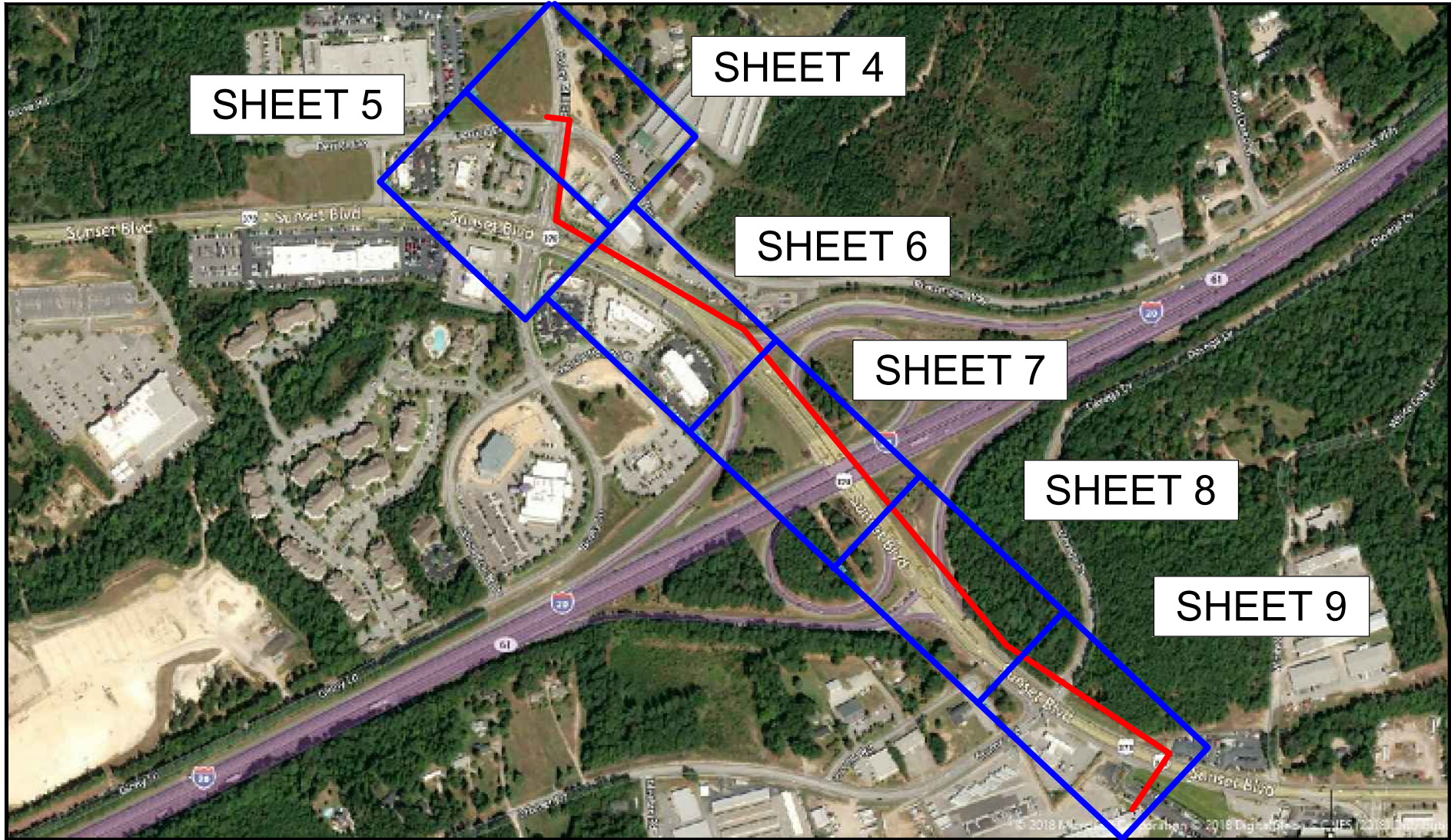


ADDRESS: 4025 SUNSET BLVD., COLUMBIA, SC.
PROJECT NAME: SOUTHEASTERN FREIGHT LINES



SITE LOCATION
SERVICE ORDER: 1279632

CONTACTS

CUSTOMER CONTACT
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SITE INDEX

- 01 - COVER SHEET/SITE LOCATION
- 02 - LEGEND
- 03 - GENERAL NOTES
- 04 - 09 OSP PROJECT SHEET
- 10 - 13 SITE PHOTOS
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- 15 - TYPICALS
- 16 - RAKE OFF TOTALS

SCOPE OF WORK:

FROM SOUTHEASTERN FREIGHT LINES AT 4025 SUNSET BLVD PLACE A SINGLE 1.25" CONDUIT ACROSS THE PARKING LOT AND SUNSET BLVD FOR A DISTANCE OF APPROX 250' PULLING IN A 96 CT FOC TO A PROPOSED HH. THE PROPOSED HH D-BORE THREE 1.25" HDPE ALONG SUNSET BLVD CROSSING I-29 TO A PROPOSED HH AT THE INTERSECTION WITH STATE RD 32-68 (CORLEY MILL RD) PULLING IN A 288 CT FOC FOR A DISTANCE OF APPROXIMATELY 3300', THEN DOWN CORLEY MILL RD WITH THE CONDUIT AND CABLE FOR APPROXIMATELY 550' TO AN EXISTING SPIRIT HH WITH A SPLICE.

SYMBOL CORRESPONDS TO PHOTO LOCATIONS AND ORIENTATION. SEE SHEET # FOR SITE PHOTOGRAPHS.

3				AS-BUILT
2				REVISION # 1
1	08/2/18	RH	DWF	ORIGINAL
NO.	DATE	ENG	DESIGN	DRAFTING
				COMMENT



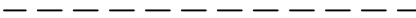










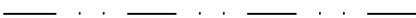












Know what's below.
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




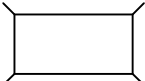



PROJECT MANAGER: BRAD PAYNE
ENGINEERING FIRM: TPRC BROADBAND
SERVICE ORDER: 1279632
DESCRIPTION: SOUTHEASTERN FREIGHT LINES
DESCRIPTION: 4025 SUNSET BLVD., COLUMBIA, SC.
DRAWING NAME: 4025 Sunset Blvd., Columbia, SC. (Permit - Interstate - 200060465).dwg
CONFIDENTIAL/PROPRIETARY


LEGEND


LINETYPES



	UG FIBER – EXISTING
	UG FIBER – PROPOSED
	AERIAL FIBER – EXISTING
	AERIAL FIBER – PROPOSED
	STRAND – EXISTING
	STRAND – PROPOSED
	CONDUIT – EXISTING
	CONDUIT – PROPOSED
	INNERDUCT – EXISTING
	INNERDUCT – PROPOSED
	GAS
	WATER
	TELEPHONE
	ELECTRIC
	SANITARY SEWER (SEW)
	STORM DRAIN
	FENCE
	CABLE TV
	STEAM
	OIL
	UNKNOWN UTILITY
	RIGHT OF WAY
	EDGE OF PAVEMENT
	SIDEWALK


<u>SYMBOL</u>	<u>DESCRIPTION</u>
ASW	ASPHALT SIDEWALK
BIP	BLACK IRON PIPE
BOS	BACK OF SIDEWALK
CSW	CONCRETE SIDEWALK
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FIBER OPTIC CABLE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
STA.	STATION

	RISER
	TELEPHONE
	POWER VAULT
	CATCH BASIN/INLET
	FIRE HYDRANT
	GROUND/BOND
	STREET LIGHT
	TREE
	CULVERT
	WING WALL
	BRIDGE
	MISC. UTILITY
	UTILITY POLE - EXISTING
OWNER ID	
	POLE - PROPOSED
SPiRiT TELECOM ID	


HH-
 HANDHOLE - EXISTING
 HANDHOLE
 SPIRIT TELECOM

HH-
 HANDHOLE - PROPOSED
 HANDHOLE
 SPIRIT TELECOM

MH-

 MANHOLE - EXISTING
 MANHOLE
 SPIRIT TELECOM
 MH-

 MANHOLE - PROPOSED
 MANHOLE
 SPIRIT TELECOM

PB-

 PULLBOX
 SPIRIT TELECOM

PULLBOX - EXISTING

PB-

 PULLBOX
 SPIRIT TELECOM

PULLBOX - PROPOSED

VAULT- VAULT - EXISTING
 [V]
 VAULT
 SPIRIT TELECOM

VAULT- VAULT – PROPOSED




 VAULT
 SPIRIT TELECOM

0'
AERIAL STORAGE – EXISTING

0'
AERIAL STORAGE – PROPOSED

0' VAULT/BUILDING STORAGE – EXISTING


0' VAULT/BUILDING STORAGE – PROPOSED


 POLE ANCHOR/DOWN GUY – EXISTING
 POLE ANCHOR/DOWN GUY – PROPOSED
 PROPOSED DOWN GUY ON EXISTING ANCHOR

FDP	TERMINATION - EXISTING
NAME	
SIZE	
LOCATION	

FDP TERMINATION – PROPOSED
NAME
SIZE
LOCATION

BUILDING CALLOUT – PROPOSED


MANUFACTURER NAME SPLICE POINT – EXISTING


MANUFACTURER NAME SPLICE POINT – PROPOSED

#F	IN:	0	SEQUENTIAL CALLOUT
	OUT:	0	

#F	IN:	0
	TAIL:	0

SEQUENTIAL IN TAIL CALLOUT

#F	TAIL:	0	SEQUENTIAL TAIL OUT CALLOUT
	OUT:	0	

POLE NO	N/A
UTILITY1	0'-0"

POLE NO	N/A
UTILITY1	0'-0"

1 CABLE FIBERS: FIBERS CABLE SPAN CALLOUT - EXISTING
 CABLE OWNER: SPIRIT TELECOM FOR USE ON PAPER SPACE (SHOWN AT 50X)
 CABLE LENGTH: LENGTH
 NOTES:

1 CABLE FIBERS: FIBERS CABLE SPAN CALLOUT - PROPOSED
 CABLE OWNER: SPIRIT TELECOM FOR USE ON PAPER SPACE (SHOWN AT 50X)
 CABLE LENGTH: LENGTH
 NOTES:

1 CONDUIT OWNER: SPIRIT TELECOM CONDUIT CALLOUT - EXISTING
CONDUIT LENGTH: LENGTH FOR USE ON PAPER SPACE (SHOWN AT 50X)
CONDUIT QTY: CONDUITS WITH OR WITHOUT INNER DUCT INFO
CONDUIT SIZE: SIZE
CONDUIT TYPE: TYPE
INNER DUCT QTY: INNERDUCTS
INNER DUCT SIZE: SIZE
INNER DUCT TYPE: TYPE
NOTES:

1 CONDUIT OWNER: SPIRIT TELECOM CONDUIT CALLOUT – PROPOSED
CONDUIT LENGTH: LENGTH FOR USE ON PAPER SPACE (SHOWN AT 50X)
CONDUIT QTY: CONDUITS WITH OR WITHOUT INNER DUCT INFO
CONDUIT SIZE: SIZE
CONDUIT TYPE: TYPE
INNER DUCT QTY: INNERDUCTS
INNER DUCT SIZE: SIZE
INNER DUCT TYPE: TYPE
NOTES:

1 STRAND TYPE: TYPE STRAND CALLOUT – EXISTING
 STRAND LENGTH: LENGTH FOR USE ON PAPER SPACE (SHOWN AT 50X)
 NOTES:

1 STRAND TYPE: TYPE STRAND LENGTH: LENGTH STRAND CALLOUT – PROPOSED FOR USE ON PAPER SPACE (SHOWN AT 50X) NOTES:



3				AS-BUILT
2				REVISION # 1
1	08/2/18	RH	DWF	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT

	
PROJECT MANAGER: BRAD PAYNE	
ENGINEERING FIRM: TPRC BROADBAND	
SERVICE ORDER: 1279632	
DESCRIPTION: SOUTHEASTERN FREIGHT LINES	
DESCRIPTION: 4025 SUNSET BLVD., COLUMBIA, SC.	
DRAWING NAME: 4025 Sunset Blvd., Columbia, SC.(Permit - Interstate - 200060465).dwg	
CONFIDENTIAL/PROPRIETARY	SHEET: 2 OF 16

GENERAL NOTES

GENERAL NOTES

CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.

CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.

ALL CABLE WILL BE PLACED AT STANDARD MINIMUM DEPTH. (SPIRIT TELECOM STANDARD IS 48" DEEP UNLESS OTHERWISE DIRECTED BY A SPIRIT TELECOM REPRESENTATIVE.)

ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK.

PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.

ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.

CONTRACTORS ARE ADVISED TO CONTACT SPIRIT TELECOM FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT YOUR SPIRIT TELECOM REPRESENTATIVE BEFORE PROCEEDING.

BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.

NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY THE APPROPRIATE SPIRIT TELECOM EMPLOYEE.

CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED SPIRIT TELECOM REPRESENTATIVE.

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE SPRIT TELECOM REPRESENTATIVE.

AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIALS AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHOULD ALSO PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, WH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED SPIRIT TELECOM EMPLOYEE PRIOR TO STARTING THE WORK.

SITE CONDITIONS

THE ACTUAL LOCATION OF EXISTING CONDUIT AND CABLES MAY VARY FROM THE LOCATION SHOWN. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT. THE CONTRACTOR SHALL ENCLOSE THE EXISTING CABLES IN PVC.

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. WHEN WORK IS TO BE CONDUCTED IN THE VICINITY OF KNOWN UTILITIES, THEIR ACTUAL LOCATION MUST BE FIELD VERIFIED TO AVOID CONFLICTS IR DAMAGE TO THOSE UTILITIES. VARIATION IN LOCATION BETWEEN "RECORDED POSITIONS" AND ACTUAL POSITIONS SHOULD BE ANTICIPATED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. BURIED UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE ALIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY OWNERS OR OPERATORS OF SAID UTILITIES.

DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOPWIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH STATE OF JURISDICTION STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

HAZARDOUS MATERIALS

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT ARE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT THE ACCIDENTAL EXPOSURE BY THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY AN APPROVED OR CERTIFIED HAZARDOUS MATERIALS CONTRACTOR LICENSED BY THE STATE OF JURISDICTION.

A COPY OF ALL CORRESPONDENCE PERTINENT TO THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE TRANSMITTED TO OWNER AND A COPY SHALL BE AVAILABLE AT THE PROJECT OFFICE AND THE JOB SITE.

AERIAL NOTES

- AERIAL CONSTRUCTION TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
- ALL HEIGHTS OF CABLE PLACEMENT WILL BE RECORDED AT TIME OF CONSTRUCTION. DOCUMENT ALL POINTS OF ATTACHMENT.
- 6.6M STRAND WILL BE USED WITH STANDARD 5/8 HARDWARE.
- ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.
- BOND STRAND TO POWER MGN WHERE APPLICABLE. ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.
- ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART.
- P.O.A. = POINT OF ATTACHMENT.
- ADD MISSING GROUNDS.
- REPAIR/REPLACE EXISTING LASHING WIRE IF DAMAGED.

CONSTRUCTION STAKING

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, THE ENGINEER WILL PROVIDE CENTERLINE STAKES OR PAINT MARKS WHERE REQUIRED TO MAKE THE PROPOSED CONDUIT ALIGNMENT EVIDENT.

MANHOLE CENTERS WILL BE FIELD STAKED BY THE ENGINEER WHEN REQUESTED WITH OFFSET STAKES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM PLAN LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT AND/OR CLOSURE INSTALLATION.

IF ADDITIONAL, FIELD STAKING OR LOCATION OF CONDUITS, MANHOLES, PROPERTY LINES, ETC., BECOMES NECESSARY, THE CONTRACTOR IS TO NOTIFY THE INSPECTOR OR THE ENGINEER TWO WORKING DAYS PRIOR TO BEGINNING THE WORK.

PERMITS - FRANCHISES - EASEMENTS

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

PLACING FOREMAN TO HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED

.TRAFFIC CONTROL

THIS PROJECT WILL INVOLVE WORKING ALONG A MAJOR ARTERIAL ROAD AND HEAVY TRAFFIC VOLUME SHOULD BE ANTICIPATED.

UNIFORM TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. ONLY EQUIPMENT AND MATERIALS NECESSARY FOR IMMEDIATELY SCHEDULED OR IN PROGRESS WORK WILL BE MAINTAINED IN THE WORK AREA. ALL OTHER EQUIPMENT AND MATERIALS WILL BE "STORED OR STOCKPILED" IN SUCH A MANNER AS TO ELIMINATE HAZARDOUS CONDITIONS FOR TRAFFIC OR PEDESTRIANS DURING NON-WORKING OR SHUT DOWN PERIODS.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE STATE HIGHWAY DIVISION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

ALL CONDUIT TRENCHING IN PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED GRAVEL OR COMPLETELY COVERED AT THE COMPLETION OF EACH WORKING DAY. ANY BACKFILLED TRENCH SHALL BE CAPPED WITH A MINIMUM LAYER OF ASPHALTIC CONCRETE COLD PATCH AT THE END OF EACH WORKING DAY.

THE CONTRACTOR SHALL MARK THE CONDUIT TRENCH AND DEFINE HIS CONSTRUCTION AREA CLEARLY WITH BARRICADES, CONES, AND/OR OTHER VISIBLE METHODS THAT ALERT THE PUBLIC OF THE CONSTRUCTION ACTIVITY.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE FOR REVIEW BY THE AGENCY REPRESENTATIVES.

SPECIAL UTILITY CLEARANCES

ALL WORK CONDUCTED ADJACENT TO WATER MAINS SHALL CONFORM TO THE FOLLOWING CONDITIONS:

- WHEREVER POSSIBLE CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3.0 FEET, MEASURED SURFACE TO SURFACE (OUTSIDE EDGE TO OUTSIDE EDGE), FROM PARALLEL WATER MAINS.
- WHEREVER POSSIBLE, CONDUIT SHALL PASS UNDER EXISTING WATER MAINS AND MUST MAINTAIN 12" VERTICAL CLEAR SEPARATION. CONDUITS PASSING OVER WATER MAINS MUST ALSO MAINTAIN THE 12" VERTICAL SEPARATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE WATER MAIN EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 3.0 FEET OR BY UTILIZING THE DEPTHS OF ADJACENT WATER VALVES. IF THE CONTRACTOR UTILIZES THE ADJACENT WATER TO DETERMINE WATER MAIN DEPTH, HE SHALL CONTACT THE AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.
- THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY REVISED BY AGREEMENT BETWEEN THE JURISDICTIONAL PERMIT AGENCY AND THE AGENCY ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.
- CLEARANCES TO STORM SEWERS AND SANITARY SEWERS SHALL BE EXACTLY THE SAME AS THOSE TO WATER MAINS.

STRUCTURE PROTECTION

MANHOLES AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE BRIDGE FOOTINGS/PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

SHORING USED AS FOUNDATION SUPPORT SHALL BE DESIGNED SPECIFICALLY FOR BOTH THE LIVE AND DEAD LOADS OF THE STRUCTURE, OR IF ONLY THE DEAD LOAD IS USED FOR DESIGN, THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT AND PLAN OF THE METHOD OF ESTABLISHING AND MAINTAINING THE DESIGN LOAD CONDITIONS (I.E., ROAD DETOURS, TIEBACKS, ETC.).

SEE UTILITY CLEARANCE SECTION NOTES FOR CLEARANCE CRITERIA TO PARALLEL OR CROSS UTILITIES.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY EITHER TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED BY SUSPENSION FROM A CROSSING BEAM. SUPPORTS SHALL BE PLACED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAN PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.


ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL COUNTY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

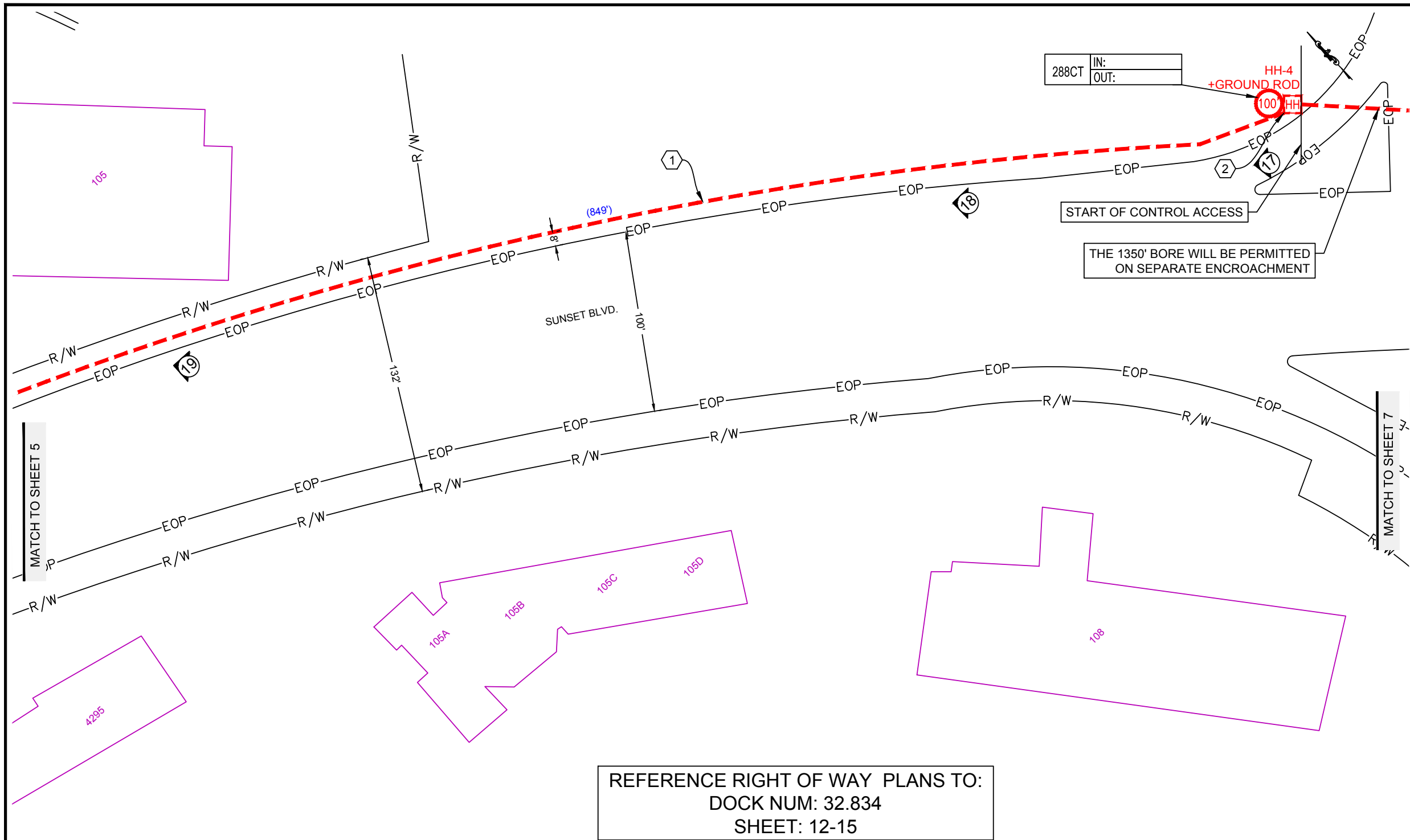
SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.



Know what's below.
Call before you dig.

3				AS-BUILT
2				REVISION # 1
1	08/2/18	RH	DWF	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
<div> Spirit Communications Voila. Data. Integrity.</div>				
PROJECT MANAGER: BRAD PAYNE				
ENGINEERING FIRM: TPRC BROADBAND				
SERVICE ORDER: 1279632				
DESCRIPTION: SOUTHEASTERN FREIGHT LINES				
DESCRIPTION: 4025 SUNSET BLVD., COLUMBIA, SC.				
DRAWING NAME: 4025 Sunset Blvd., Columbia, SC.(Permit - Interstate - 200060465).dwg				
CONFIDENTIAL/PROPRIETARY				SHEET: 3 OF 16



CONSTRUCTION NOTES

- 1 CABLE FIBERS: 288CT FOC
CABLE OWNER: SPIRIT
CABLE LENGTH: 849'
NOTES: PULL NEW 288CT FOC 849' FROM PROPOSED HH-3 TO PROPOSED HH-4 LEAVING 100' SLACK LOOP AT PROPOSED HH-3
- CONDUIT OWNER: SPIRIT
CONDUIT LENGTH: 849'
CONDUIT QTY: 3
CONDUIT SIZE: 1.25"
CONDUIT TYPE: HDPE
NOTE: DIRECTIONAL BORE (3) NEW 1.25" HDPE 849' FROM PROPOSED HH-3 TO PROPOSED HH-4
- 2 PROPOSED HANDHOLE-4 WITH GROUND ROD AND MARKER POST
NOTE: 30"x48"x36" E/W SCDOT LID
RATING AT 20,000 LBS

Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
200-2 - Directional Bore (2) 1.25" HDPE SDR11	FT	849'	
200-3 - adder - Pull back additional 1.25" HDPE (up to 4)	FT	849'	
200-11 - Quazite Tier 15 handhole-30"x48"x36" Installed w/Ground Rod	EA	1	
200-15 - Marker Pole Installation (Pole Supplied by Spirit)	EA	1	
301-1 - Cable Placement in conduit - OSP	FT	949'	

SCALE IS FOR REFERENCE PURPOSES ONLY. THE CABLE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE PERMITTING MUNICIPALITY PRIOR TO BEGINNING CONSTRUCTION, IN ORDER TO VERIFY THAT THE CABLE IS BEING PLACED WITHIN THEIR RIGHT-OF-WAY.

811
Know what's below.
Call before you dig.

SCALE: 1"=50'

SYMBOL CORRESPONDS TO PHOTO LOCATIONS AND ORIENTATION. SEE SHEET # FOR SITE PHOTOGRAPHS.

3				AS-BUILT
2				REVISION # 1
1	08/2/18	RH	DWF	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT

Spirit
Communications
Voice, Data, Internet

PROJECT MANAGER: BRAD PAYNE
ENGINEERING FIRM: TPRC BROADBAND
SERVICE ORDER: 1279632
DESCRIPTION: SOUTHEASTERN FREIGHT LINES
DESCRIPTION: 4025 SUNSET BLVD., COLUMBIA, SC.
DRAWING NAME: 4025 Sunset Blvd., Columbia, SC.(Permit - Interstate - 200060465).dwg
CONFIDENTIAL/PROPRIETARY

SHEET: 6 OF 16

NOTE:
BORE UNDER INTERSTATE 15' MINIMUM

NOTE:
STAY MINIMUM 25' FROM
BRIDGE SUPPORT

THE 1350' BORE WILL BE PERMITTED
ON SEPARATE ENCROACHMENT

REFERENCE RIGHT OF WAY PLANS TO:
DOCK NUM: 32.834
SHEET: 12-15

BORE UNDER INTERSTATE

SUNSET BLVD OVER PASS

GROUND LEVEL

HH

I-20 SB ON RAMP

I-20 SB

I-20 NB

I-20 NB OFF RAMP

HH

CONSTRUCTION NOTES

- 1 CABLE FIBERS: 288CT FOC
CABLE OWNER: SPIRIT
CABLE LENGTH: 1,450'
NOTES: PULL NEW 288CT FOC 1,350' FROM PROPOSED HH-4 TO PROPOSED HH-5 LEAVING A 100' SLACK LOOP AT PROPOSED HH-4
- CONDUIT OWNER: SPIRIT
CONDUIT LENGTH: 1,350'
CONDUIT QTY: 3
CONDUIT SIZE: 1.25"
CONDUIT TYPE: HDPE
NOTE: DIRECTIONAL BORE (3) NEW 1.25" HDPE 1,350' FROM PROPOSED HH-4 TO PROPOSED HH-5

SYMBOL CORRESPONDS TO PHOTO LOCATIONS AND ORIENTATION. SEE SHEET # FOR SITE PHOTOGRAPHS.

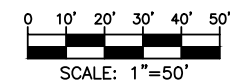
3				AS-BUILT
2				REVISION # 1
1	08/2/18	RH	DWF	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT



PROJECT MANAGER: BRAD PAYNE
ENGINEERING FIRM: TPRC BROADBAND
SERVICE ORDER: 1279632
DESCRIPTION: SOUTHEASTERN FREIGHT LINES
DESCRIPTION: 4025 SUNSET BLVD., COLUMBIA, SC.
DRAWING NAME: 4025 Sunset Blvd., Columbia, SC.(Permit - Interstate - 200060465).dwg
CONFIDENTIAL/PROPRIETARY

SHEET: 7 OF 16

SCALE IS FOR REFERENCE PURPOSES ONLY. THE CABLE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE PERMITTING MUNICIPALITY PRIOR TO BEGINNING CONSTRUCTION, IN ORDER TO VERIFY THAT THE CABLE IS BEING PLACED WITHIN THEIR RIGHT-OF-WAY.

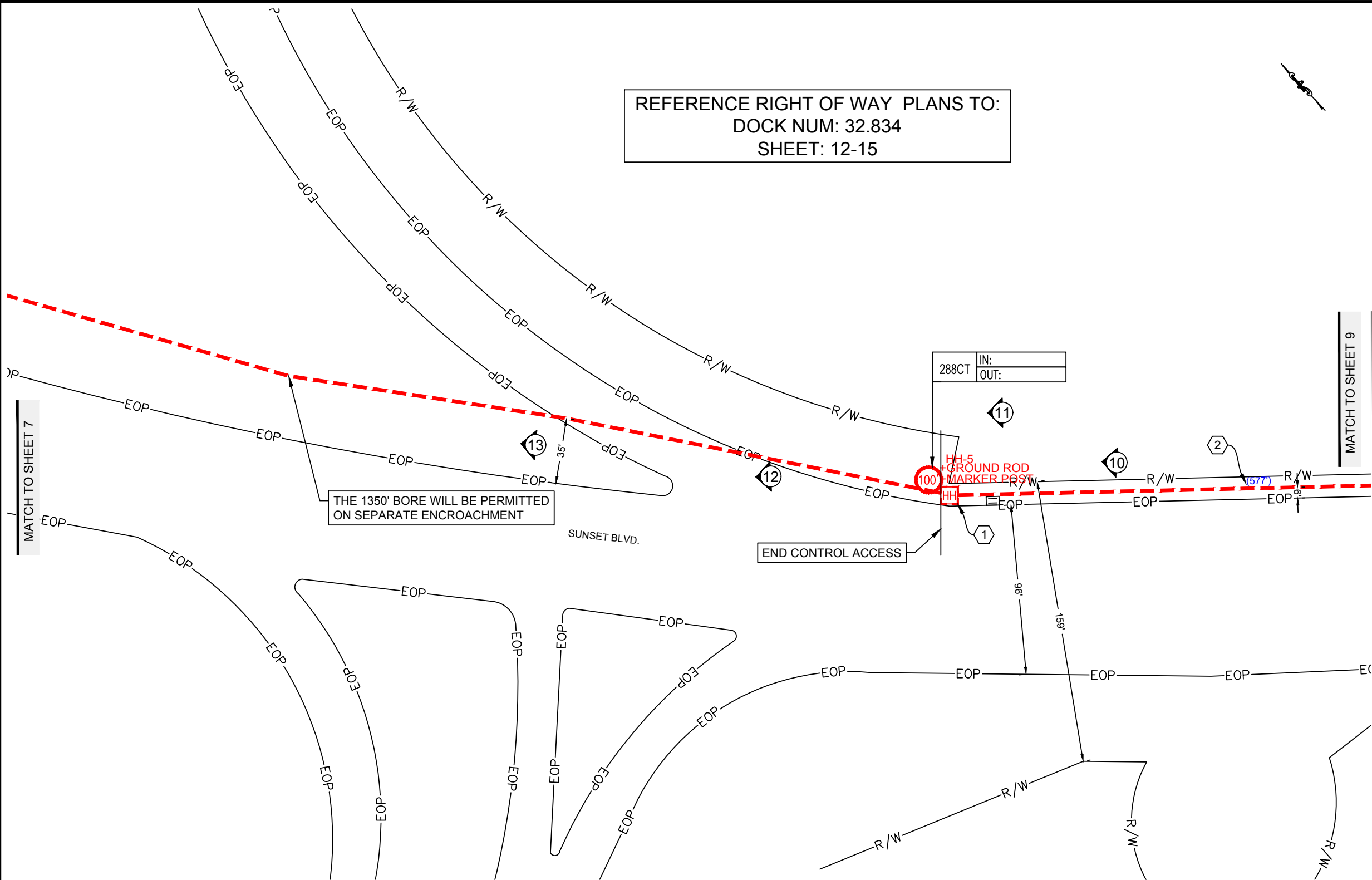


Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
200-2 - Directional Bore (2) 1.25" HDPE SDR11	FT	1,350'	
200-3 - adder - Pull back additional 1.25" HDPE (up to 4)	FT	1,350'	
301-1 - Cable Placement in conduit - OSP	FT	1,450'	

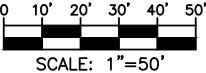
REFERENCE RIGHT OF WAY PLANS TO:
DOCK NUM: 32.834
SHEET: 12-15

CONSTRUCTION NOTES

- 1 PROPOSED HANDHOLE-5 WITH GROUND ROD AND MARKER POST
NOTE: 30"x48"x36" E/W SCDOT LID
RATING AT 20,000 LBS
- 2 CABLE FIBERS: 288CT FOC
CABLE OWNER: SPIRIT
CABLE LENGTH: 677'
NOTES: PULL NEW 288CT FOC 577' FROM PROPOSED HH-5 TO PROPOSED HH-6 LEAVING A 100' SLACK LOOP AT PROPOSED HH-5
- CONDUIT OWNER: SPIRIT
CONDUIT LENGTH: 577'
CONDUIT QTY: 3
CONDUIT SIZE: 1.25"
CONDUIT TYPE: HDPE
NOTE: DIRECTIONAL BORE (3) NEW 1.25" HDPE 577' FROM PROPOSED HH-5 TO PROPOSED HH-6



SCALE IS FOR REFERENCE PURPOSES ONLY. THE CABLE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE PERMITTING MUNICIPALITY PRIOR TO BEGINNING CONSTRUCTION, IN ORDER TO VERIFY THAT THE CABLE IS BEING PLACED WITHIN THEIR RIGHT-OF-WAY.



Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
200-2 - Directional Bore (2) 1.25" HDPE SDR11	FT	577'	
200-3 - adder - Pull back additional 1.25" HDPE (up to 4)	FT	577'	
200-11 - Quazite Tier 15 handhole-30"x48"x36" Installed w/Ground Rod	EA	1	
200-15 - Marker Pole Installation (Pole Supplied by Spirit)	EA	1	
301-1 - Cable Placement in conduit - OSP	FT	677'	

SYMBOL CORRESPONDS TO PHOTO LOCATIONS AND ORIENTATION. SEE SHEET # FOR SITE PHOTOGRAPHS.

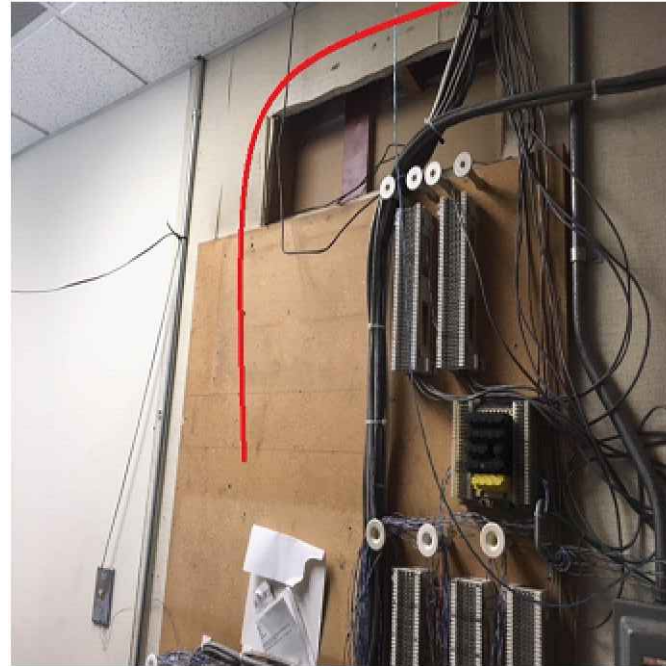
3				AS-BUILT
2				REVISION # 1
1	08/2/18	RH	DWF	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT

Spirit
Communications
Voice, Data, Internet

PROJECT MANAGER: BRAD PAYNE
ENGINEERING FIRM: TPRC BROADBAND
SERVICE ORDER: 1279632
DESCRIPTION: SOUTHEASTERN FREIGHT LINES
DESCRIPTION: 4025 SUNSET BLVD., COLUMBIA, SC.
DRAWING NAME: 4025 Sunset Blvd., Columbia, SC.(Permit - Interstate - 200060465).dwg
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SHEET: 8 OF 16

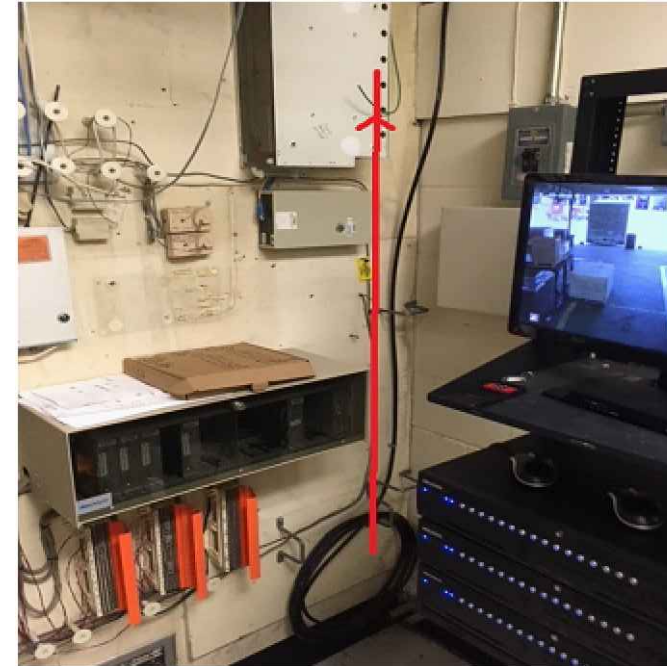
SITE PHOTOGRAPHS



1



2



3



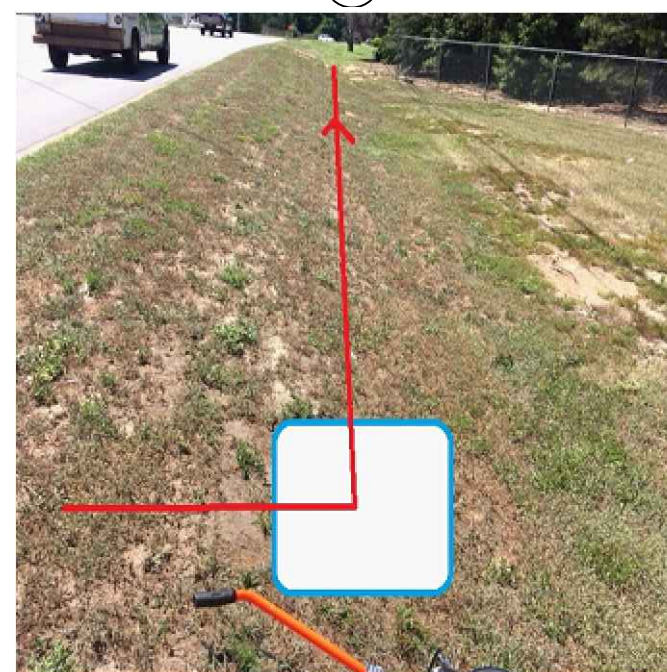
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5



6



7



8



3				AS-BUILT	
2				REVISION # 1	
1	08/2/18	RH	DWF	ORIGINAL	
NO.	DATE	ENG	DESIGN	DRAFTING	COMMENT
<div><p>Spirit. Communications <i>Voice. Data. Internet.</i></p></div>					
PROJECT MANAGER: BRAD PAYNE					
ENGINEERING FIRM: TPRC BROADBAND					
SERVICE ORDER: 1279632					
DESCRIPTION: SOUTHEASTERN FREIGHT LINES					
DESCRIPTION: 4025 SUNSET BLVD., COLUMBIA, SC.					
DRAWING NAME: 4025 Sunset Blvd., Columbia, SC (Permit - Interstate - 200060465).dwg					
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SHEET: 10 OF 16					

SITE PHOTOGRAPHS



9



10



11



12



13



14



15



16



3				AS-BUILT	
2				REVISION # 1	
1	08/2/18	RH	DWF	ORIGINAL	
NO.	DATE	ENG	DESIGN	DRAFTING	COMMENT
<div><p>Spirit. Communications <small>Video, Data, Internet</small></p></div>					
PROJECT MANAGER: BRAD PAYNE					
ENGINEERING FIRM: TPRC BROADBAND					
SERVICE ORDER: 1279632					
DESCRIPTION: SOUTHEASTERN FREIGHT LINES					
DESCRIPTION: 4025 SUNSET BLVD., COLUMBIA, SC.					
DRAWING NAME: 4025 Sunset Blvd., Columbia, SC (Permit - Interstate - 200060465).dwg					
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SHEET: 11 OF 16					

SITE PHOTOGRAPHS



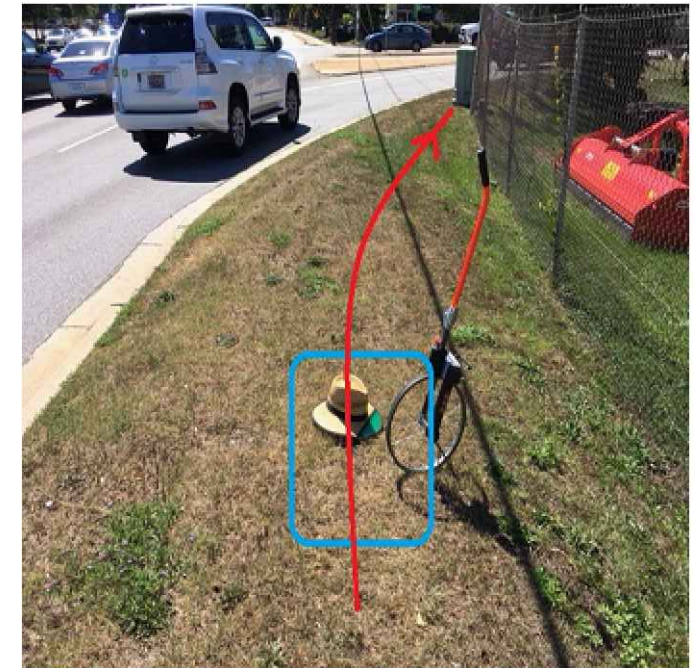
17



18



19



20



21



22



23



24



3				AS-BUILT	
2				REVISION # 1	
1	08/2/18	RH	DWF	ORIGINAL	
NO.	DATE	ENG	DESIGN	DRAFTING	COMMENT
<div><p>Spirit. Communications <small>Video Data Internet</small></p></div>					
PROJECT MANAGER: BRAD PAYNE					
ENGINEERING FIRM: TPRC BROADBAND					
SERVICE ORDER: 1279632					
DESCRIPTION: SOUTHEASTERN FREIGHT LINES					
DESCRIPTION: 4025 SUNSET BLVD., COLUMBIA, SC.					
DRAWING NAME: 4025 Sunset Blvd., Columbia, SC (Permit - Interstate - 200060465).dwg					
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SHEET: 12 OF 16					

SITE PHOTOGRAPHS



25



26




27



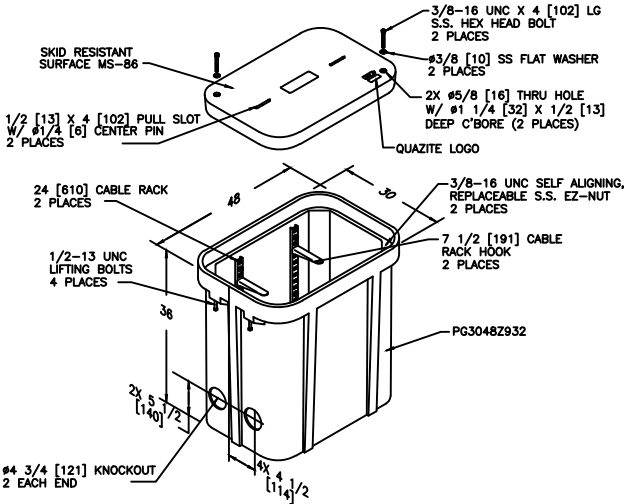
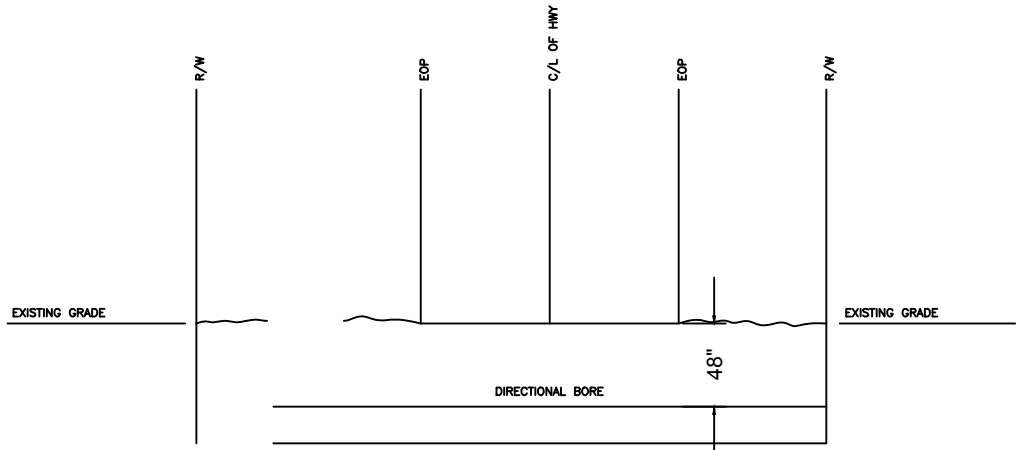
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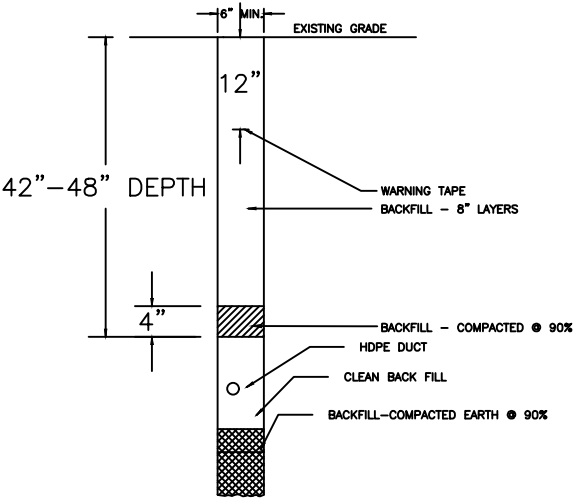
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2				REVISION # 1	
1	08/2/18	RH	DWF	ORIGINAL	
NO.	DATE	ENG	DESIGN	DRAFTING	COMMENT
<div><p>Spirit. Communications <i>Voice. Data. Internet.</i></p></div>					
PROJECT MANAGER: BRAD PAYNE					
ENGINEERING FIRM: TPRC BROADBAND					
SERVICE ORDER: 1279632					
DESCRIPTION: SOUTHEASTERN FREIGHT LINES					
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DRAWING NAME: 4025 Sunset Blvd., Columbia, SC (Permit - Interstate - 200060465).dwg					
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SHEET: 13 OF 16					

TYPICALS

TYPICAL DETAIL – #TYPICALNUMBER
DIRECTIONAL BORE
UNDER ROAD / HIGHWAY

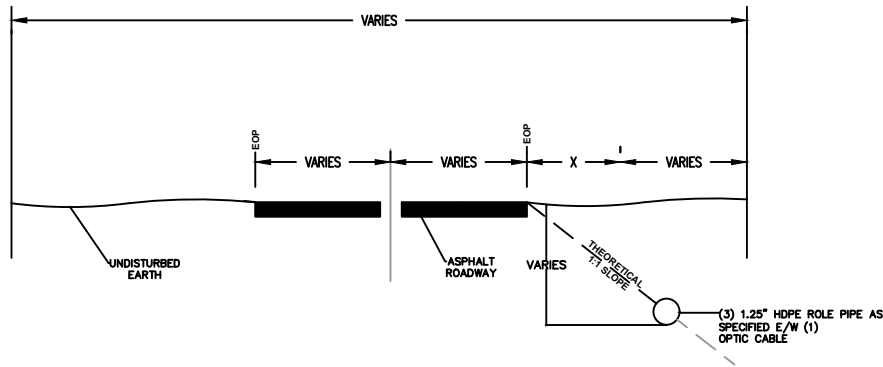


TYPICAL DETAIL – #TYPICALNUMBER
QUAZITE 30X48X36 BOX ASSEMBLY
W/(2) 24" CR, (2) 7 1/2" CR, HOOKS
& (4) #4 3/4 KNOCKOUT
PG3048Z932



TYPICAL DETAIL – #TYPICALNUMBER
TRENCH IN SOIL (NON TRAFFIC AREAS)

TYPICAL DETAIL "H"
PARALLEL CONDUIT DETAIL FOR DOT R/W



3				AS-BUILT
2				REVISION # 1
1	08/2/18	RH	DWF	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
<div><div><div>Spirit</div><div>Communications</div><div>Voice. Data. Internet.</div></div></div>				
PROJECT MANAGER: BRAD PAYNE				
ENGINEERING FIRM: TPRC BROADBAND				
SERVICE ORDER: 1279632				
DESCRIPTION: SOUTHEASTERN FREIGHT LINES				
DESCRIPTION: 4025 SUNSET BLVD., COLUMBIA, SC.				
DRAWING NAME: 4025 Sunset Blvd., Columbia, SC.(Permit - Interstate - 200060465).dwg				
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SHEET: 14 OF 16				

TYPICALS

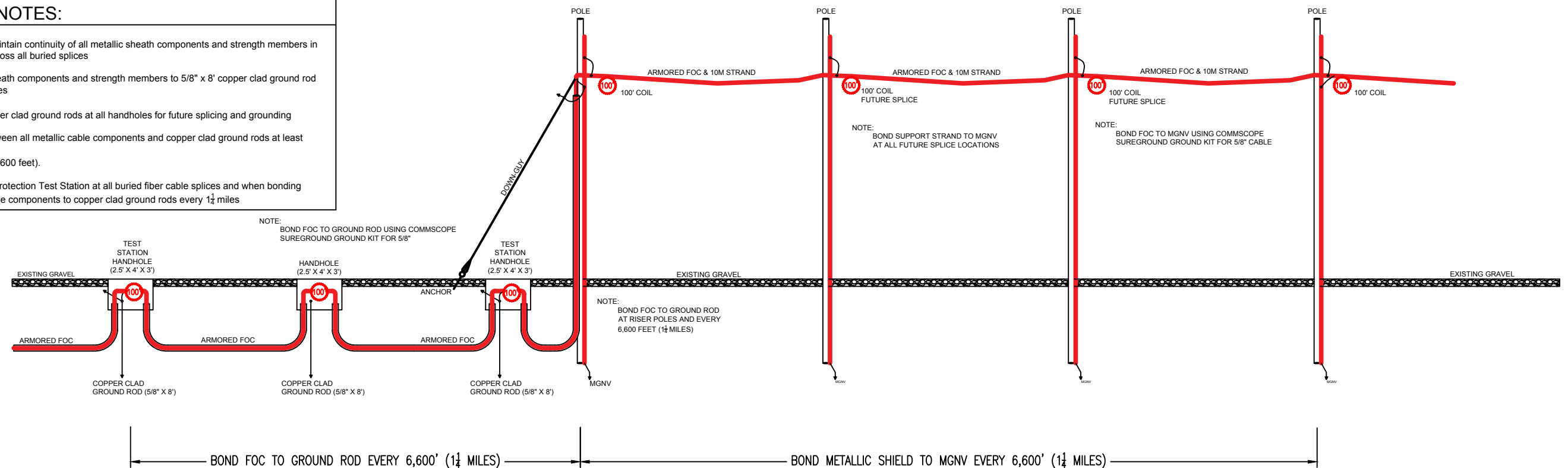
BONDING AND GROUNDING DETAILS

AERIAL NOTES:

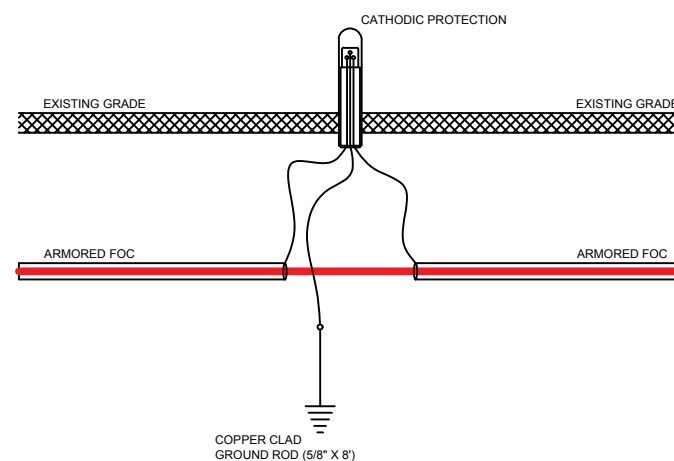
1. Establish and maintain continuity of all metallic components (strength member, shield, moisture barrier, armor) across all aerial splices.
2. Bond metallic components to the support strand at all splice locations
3. Bond support strand to pole MGNV at all riser poles, fiber loop (2,000') locations for future splice and fiber splice locations
4. Place bonds between all metallic cable components and the support strand at least once every $1\frac{1}{4}$ miles (6,600 feet).

BURIED NOTES:

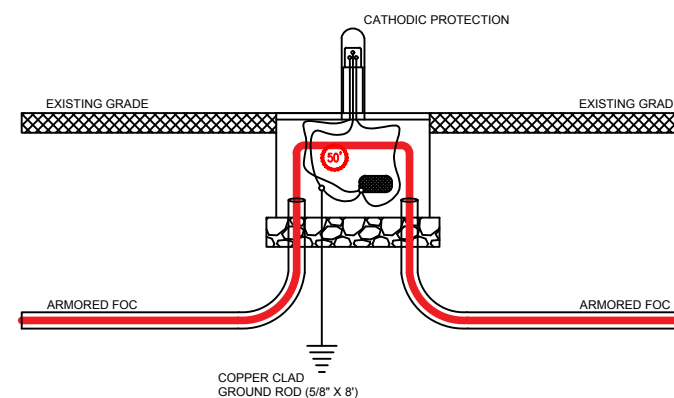
1. Establish and maintain continuity of all metallic sheath components and strength members in the cable and across all buried splices
2. Bond metallic sheath components and strength members to 5/8" x 8' copper clad ground rod at all buried splices
3. Place 5/8" x 8' copper clad ground rods at all handholes for future splicing and grounding
4. Place bonds between all metallic cable components and copper clad ground rods at least once every $1\frac{1}{4}$ miles (6,600 feet).
5. Place Cathodic Protection Test Station at all buried fiber cable splices and when bonding fiber metallic cable components to copper clad ground rods every $1\frac{1}{4}$ miles



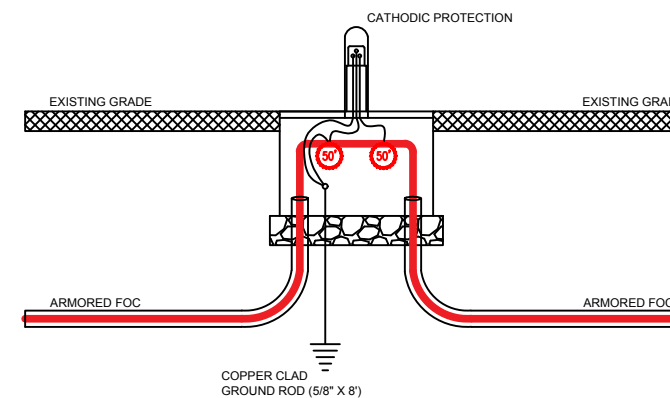
TEST STATION DETAIL SCHEMATIC




TEST STATION WITH FIELD SPLICE



TEST STATION WITH COIL FOR FUTURE SPLICE



3				AS-BUILT
2				REVISION # 1
1	08/2/18	RH	DWF	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
				
PROJECT MANAGER: BRAD PAYNE				
ENGINEERING FIRM: TPRC BROADBAND				
SERVICE ORDER: 1279632				
DESCRIPTION: SOUTHEASTERN FREIGHT LINES				
DRAWING NAME: 4025 Sunset Blvd., Columbia, SC (Permit - Interstate - 200060465).dwg				
CONFIDENTIAL/PROPRIETARY				

Total Underground Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
200-1 - Directional Bore (1) up to 2" HDPE SDR11	FT	217'	
200-2 - Directional Bore (2) 1.25" HDPE SDR11	FT	3,589'	
200-3 - adder - Pull back additional 1.25" HDPE (up to 4)	FT	3,589'	
200-8 - Trench (?) 1.25" HDPE SDR11 Pipe - 36" min depth	FT	5'	
200-11 - Quazite Tier 15 handhole-30"x48"x36" Installed w/Ground Rod	EA	5	
200-11 - Quazite Tier 15 handhole- 17"x30"x24" Installed w/Ground Rod	EA	1	
200-15 - Marker Pole Installation (Pole Supplied by Spirit)	EA	5	
301-1 - Cable Placement in conduit - OSP	FT	4,515'	

Total Aerial Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity

Total Inside Plant (ISP) Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
301-1 - Cable Placement in conduit - ISP	FT	65'	

MATERIAL TOTALS


288CT FOC	4,218'
96CT FOC	297'
12CT PRETERM FOC	65'
1.25" HDPE	10,984'
VAULT / HANDHOLE	6
GROUND ROD	6
MARKER POST	5
WALL MOUNT FDP	1

OSP 288CT. FIBER OPTIC CABLE	UNDERGROUND	3,618'
OSP 288CT. SLACK LOOP	UNDERGROUND	500'
OSP 288CT. SERVICE COIL	UNDERGROUND	100'
OSP 96CT. FIBER OPTIC CABLE	UNDERGROUND	217'
OSP 96CT SERVICE COIL	UNDERGROUND	80'
ISP 12CT. PRETERM FIBER OPTIC CABLE	BUILDING	35'
ISP 12CT. PRETERM SERVICE COIL	BUILDING	30'

JOB TOTAL (288CT):	4,218'
(96CT):	297'
(12CTPRETERM):	65'



Know what's below.
Call before you dig.

3				AS-BUILT
2				REVISION # 1
1	08/2/18	RH	DWF	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
<div> Vision. Data. Internet.</div>				
PROJECT MANAGER: BRAD PAYNE				
ENGINEERING FIRM: TPRC BROADBAND				
SERVICE ORDER: 1279632				
DESCRIPTION: SOUTHEASTERN FREIGHT LINES				
DESCRIPTION: 4025 SUNSET BLVD., COLUMBIA, SC.				
DRAWING NAME: 4025 Sunset Blvd., Columbia, SC.(Permit - Interstate - 200060465).dwg				
CONFIDENTIAL/PROPRIETARY				SHEET: 16 OF 16