

FORSYTH COUNTY

BOARD OF COMMISSIONERS

BRIEFING DRAFT

MEETING DATE: May 21, 2020

AGENDA ITEM NUMBER: 15

SUBJECT: RESOLUTION AUTHORIZING THE GRANT AND EXECUTION OF AN EASEMENT TO SOUTH CAROLINA TELECOMMUNICATIONS GROUP HOLDINGS, LLC, DOING BUSINESS AS SEGRA TO ACCESS AND CONSTRUCT COMMUNICATION FACILITIES ON 43.62 ACRES OF FORSYTH COUNTY OWNED REAL PROPERTY LOCATED AT 5580 STURMER PARK CIRCLE, WINSTON-SALEM, NC

COUNTY MANAGER'S RECOMMENDATION OR COMMENTS:

SUMMARY OF INFORMATION:

This item authorizes the grant and execution of an easement to South Carolina Telecommunications Group Holdings, LLC, doing business as SEGRA ("SEGRA") for the purposes of constructing and maintaining communications facilities at 5580 Sturmer Park Circle, Winston-Salem. This property includes the Springwood facility for which the communications facilities will service. In 2019, Forsyth County entered into a lease agreement with Addiction Recovery Care Association (ARCA) for use of the Springwood facility located along Sturmer Park Circle.

These facilities will service ARCA's operations at the Springwood facility. After reviewing the plans for SEGRA's facilities, staff recommends granting this easement as County operations will not be negatively impacted. Additionally, the County's standard language requiring Grantor's written permission prior to placement of facilities is included in the easement.

ATTACHMENTS: YES NO

SIGNATURE: _____ DATE: _____
COUNTY MANAGER

**RESOLUTION AUTHORIZING THE GRANT AND EXECUTION OF AN
EASEMENT TO SOUTH CAROLINA TELECOMMUNICATIONS GROUP
HOLDINGS, LLC, DOING BUSINESS AS SEGRA TO ACCESS AND CONSTRUCT
COMMUNICATION FACILITIES ON 43.62 ACRES OF FORSYTH COUNTY
OWNED REAL PROPERTY LOCATED AT
5580 STURMER PARK CIRCLE, WINSTON-SALEM, NC**

WHEREAS South Carolina Telecommunications Group Holdings, LLC, doing business as SEGRA, requests an easement to access 43.62 acres of Forsyth County owned real property located at 5580 Sturmer Park Circle, Winston-Salem, NC, PIN 6828-13-9481.00, which includes the Springwood Facility, to construct, operate, repair, and maintain communication facilities within a portion of the designated easement area for consideration of \$1.00;

WHEREAS communication facilities are needed to service Addiction Recovery Care Association's operations at the Springwood facility, as Addiction Recovery Care Association has leased the facility since April 24, 2019, from Forsyth County; and

WHEREAS Forsyth County is authorized pursuant to the provisions of N.C.G.S. 153A-176 and 160A-273 to grant easements under these circumstances, and County staff has determined that the proposed consideration and other terms negotiated between the parties are reasonable;

NOW, THEREFORE, BE IT RESOLVED, that the Forsyth County Board of Commissioners hereby authorizes the grant of an easement to access 43.62 acres of Forsyth County property located at 5580 Sturmer Park Circle, Winston-Salem, NC, PIN 6828-13-9481.00, to construct, operate and maintain communication facilities within a portion of the designated easement area for consideration of \$1.00; and

BE IT FURTHER RESOLVED, by the Forsyth County Board of Commissioners that the Chairman or County Manager and Clerk to the Board are hereby authorized to execute, on behalf of Forsyth County, the attached Easement and any other necessary documents to grant the above-described access easement to South Carolina Telecommunications Group Holdings, LLC, doing business as SEGRA, subject to a pre-audit certificate thereon by the County Chief Financial Officer, if applicable, and approval as to form and legality by the County Attorney.

Adopted this the 21st day of May 2020.

STATE OF NORTH CAROLINA)
)
COUNTY OF FORSYTH)

EASEMENT

THIS EASEMENT (“Easement”) is made this _____ day of _____, 2020 (“Effective Date”), from FORSYTH COUNTY, a political subdivision of the State of North Carolina, with its principal place of business at 201 North Chestnut Street, Winston-Salem, NC 27101 (“GRANTOR”), to SOUTH CAROLINA TELECOMMUNICATIONS GROUP HOLDINGS, LLC, doing business as SEGRA, a South Carolina limited liability company, with its principal place of business at 1500 Hampton Street, Columbia, SC 29201 (“SEGRA”); its successors, licensors, licensees, and assigns.

WITNESSTH:

THAT GRANTOR, for and in consideration of the sum of ONE DOLLAR (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does hereby grant unto SEGRA, its successors, lessees, licensees, transferees, permittees, and assigns, the perpetual non-exclusive right, privilege, and easement to go in and upon the land of GRANTOR situated in Winston-Salem, described as follows: Property Address 5580 Sturmer Park Circle, Winston-Salem, North Carolina, 27105; Parcel ID (PIN) 6828-13-9481.00; containing 43.62 acres, more or less, and being the land described in a deed from Winston-Salem/Forsyth County Board of Education to Forsyth County, North Carolina, dated January 26, 1971, and recorded in Deed Book 1013, Page 320; Forsyth County Registry (the "Property"), LESS AND EXCEPT any prior out-conveyances, and to construct, reconstruct, operate, maintain, inspect, repair, replace, relocate, add to, modify and remove communications facilities thereon including but not limited to, fiber cable, conduit, connectors, handholes, and related equipment (the "Facilities") within an easement area being ten (10) feet wide (the "Easement Area"), for telecommunication purposes. The center line of the Facilities shall be the center line of the Easement Area.

The right, privilege and easement shall include the following rights granted to SEGRA: (a) ingress and egress over the Easement Area and over adjoining portions of the Property (using lanes, driveways and paved areas where practical as determined by SEGRA) with the prior written permission of the GRANTOR; (b) to relocate the Facilities and Easement Area on the Property to conform to any future highway or street relocation, widening or improvement; (c) all other rights and privileges reasonably necessary or convenient for SEGRA 's safe, reliable and efficient installation, operation, and maintenance of the Facilities and for the enjoyment and use of the Easement Area for the purposes described herein.

Notwithstanding anything to the contrary above, the EASEMENT herein granted is for Facilities to be installed at any point agreed upon by the parties and where needed on the Property provided that, prior to placement of any Facility, GRANTOR must agree in writing to the placement or relocation of any Facility and the schedule of any such placement or relocation.

TO HAVE AND TO HOLD said rights, privilege, and easement unto SEGRA, its successors, licensees, and assigns, forever, and GRANTOR, for itself, its heirs, executors, administrators, successors, and assigns, covenants to and with SEGRA that GRANTOR is lawfully seized of the Property and the Easement Area in fee and has the right to convey said rights and Easement and that GRANTOR will forever warrant and forever defend the title to said rights and Easement against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, this EASEMENT has been executed by GRANTOR and is effective as of the Effective Date herein.

SIGNED, SEALED AND DELIVERED

IN THE PRESENCE OF:

GRANTOR:

FORSYTH COUNTY

Witness #1
(Print Name) _____

By: _____

Name: _____

Title: _____

Witness #2 (May be the Notary)
(Print Name) _____

ADDRESS: 5755 SHATTALON DR., WINSTON-SALEM, NC
 PROJECT NAME: ADDICTION RECOVERY CARE ASSOCIATION INC
 SERVICE ORDER: 1646030
 FIBER ORDER ID: EWO.103628..SPC
 EBS: 459244-001



SITE LOCATION



CONTACTS

CUSTOMER CONTACT

DARRELL BOYES
 336-784-9470
 darrell@arcanc.org

SEGRA ENGINEER

RYAN HUSSEY
 919-232-3474 OFFICE
 919-602-7175 CELL
 ryan.hussey@segra.com

TPRC BROADBAND SPECIALIST

KELLY RAPE
 336-937-1743
 kelly@tprcbroadband.com

SITE INDEX

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PERMITS REQUIRED

- 1 - CITY OF WINSTON-SALEM
- 2 - NCDOT

SCOPE OF WORK:

This project will consist of D/Boring (3) 1.25" HDPE Conduits approx. 1,294', D/Boring (1) 1.25" HDPE Conduit approx. 90', Trenching (1) HDPE Conduit approx. 3', Installing (3) New Handholes with grounding rod, marker post and gravel, Placing (1) 2" PVC Conduit with (1) 2" LB approx. 3', Core Boring (1) 2" Penetration thru exterior brick wall, Proofing/Firestopping (1) 2" Penetration, Installing (1) #12 awg Tracer Wire approx. 1,387', Installing (1) 2'x4' Fireboard, Placing (1) Wall Mount FDP, Installing (1) 1" Plenum Innerduct approx. 3' and Installing (1) 48ct FOC approx. 1,823'.

3				AS-BUILT
2	03/30/20	KR	DWF	REVISION # 1
1	01/07/20	KR	CW	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT

SOUTH CAROLINA TELECOMMUNICATIONS GROUP HOLDINGS, LLC d/b/a SEGRA

PROJECT MANAGER: RYAN HUSSEY
 ENGINEERING FIRM: TPRC BROADBAND
 SO/EWO#, EBS# 1646030 / EWO.103628..SPC / 459244-001
 PROJECT: ADDICTION RECOVERY CARE ASSOCIATION INC.
 ADDRESS: 5755 SHATTALON DR., WINSTON-SALEM, NC
 DRAWING NAME: 5755 Shattalon Dr (Revision).dwg



CONTACT LIST AND REQUIRED PERMITS

REQUIRED PERMITS:

- 1) CITY OF WINSTON-SALEM
- 2) NCDOT
- 3) _____

OUTSIDE PLANT ENGINEERING:

MANAGER: _____

PROJECT MANAGER: RYAN HUSSEY 919-232-3474

PROJECT ENGINEER: KELLY RAPE 336-937-1743

INSPECTOR: _____

OUTSIDE PLANT CONSTRUCTION CONTRACTOR:

PROJECT SUPERVISOR: _____

FIELD CONST. SUPER: _____

MANAGER: _____

CITY GOVERNMENT:

WINSTON-SALEM CHARLES HENDRICK 336-747-6850

COUNTY GOVERNMENT:

FORSYTH COUNTY _____ 336-703-2700

STATE OF NORTH CAROLINA GOVERNMENT:

RIGHT OF WAY: JEREMY GUY 336-747-7900

STATE OF NORTH CAROLINA DEPARTMENT OF PUBLIC SAFETY:

STATE HIGHWAY PATROL: _____ 336-761-2441

ADDRESS: 2001 SILAS CREEK PKWY., WINSTON-SALEM, NC 27103

CITY POLICE: _____ 336-773-7700

ADDRESS: 725 N. CHERRY ST., WINSTON-SALEM, NC 27101

COUNTY POLICE: _____ 336-917-7001

ADDRESS: 301 N. CHURCH ST., WINSTON-SALEM, NC 27101

RAILROADS:

NORTH CAROLINA ONE CALL

CALL BEFORE YOU DIG

811 OR
1-800-632-4949

UTILITIES:

ELECTRIC:

GAS:

CABLE TV:

TELEPHONE:

WATER / SEWER:

OTHER:

CALL PROPERTY OWNERS 24 HOURS IN ADVANCE NAME: _____

_____ E-MAIL: _____



3				AS-BUILT
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ENGINEERING FIRM: TPRC BROADBAND				
SO/EWO#, EBS# 1646030 / EWO.103628, SPC / 459244-001				
PROJECT: ADDICTION RECOVERY CARE ASSOCIATION INC.				
ADDRESS: 5755 SHATTALON DR., WINSTON-SALEM, NC				
DRAWING NAME: 5755 Shattalon Dr (Revision).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

SYMBOL DESCRIPTION

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
	POLE - PROPOSED
	OWNER ID
	SEGRA ID

	HH - EXISTING
	HH - PROPOSED
	MH - EXISTING
	MH - PROPOSED
	PB - EXISTING
	PB - PROPOSED

	VAULT - EXISTING
	VAULT - PROPOSED
	AERIAL STORAGE - EXISTING
	AERIAL STORAGE - PROPOSED
	VAULT/BUILDING STORAGE - EXISTING
	VAULT/BUILDING STORAGE - PROPOSED
	POLE ANCHOR/DOWN GUY - EXISTING
	POLE ANCHOR/DOWN GUY - PROPOSED
	PROPOSED DOWN GUY ON EXISTING ANCHOR

	TERMINATION - EXISTING
	TERMINATION - PROPOSED
	BUILDING CALLOUT - PROPOSED

	MANUFACTURER NAME	SPLICE POINT - EXISTING
	MANUFACTURER NAME	SPLICE POINT - PROPOSED
		SEQUENTIAL CALLOUT
		SEQUENTIAL IN TAIL CALLOUT
		SEQUENTIAL TAIL OUT CALLOUT

POLE NO	N/A
UTILITY1	0'-0"

POLE NO	N/A
UTILITY1	0'-0"

1	CABLE FIBERS: FIBERS CABLE OWNER: SEGRA CABLE LENGTH: LENGTH NOTES:
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1	CABLE FIBERS: FIBERS CABLE OWNER: SEGRA CABLE LENGTH: LENGTH NOTES:
---	--

1	CONDUIT OWNER: SEGRA CONDUIT LENGTH: LENGTH CONDUIT QTY: CONDUITS CONDUIT SIZE: SIZE CONDUIT TYPE: TYPE INNER DUCT QTY: INNERDUCTS INNER DUCT SIZE: SIZE INNER DUCT TYPE: TYPE NOTES:
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1	CONDUIT OWNER: SEGRA CONDUIT LENGTH: LENGTH CONDUIT QTY: CONDUITS CONDUIT SIZE: SIZE CONDUIT TYPE: TYPE INNER DUCT QTY: INNERDUCTS INNER DUCT SIZE: SIZE INNER DUCT TYPE: TYPE NOTES:
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1	STRAND TYPE: TYPE STRAND LENGTH: LENGTH NOTES:
---	--

1	STRAND TYPE: TYPE STRAND LENGTH: LENGTH NOTES:
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POLE ATTACHMENT CALLOUT - EXISTING
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

POLE ATTACHMENT CALLOUT - PROPOSED
USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS

CABLE SPAN CALLOUT - EXISTING
FOR USE ON PAPER SPACE (SHOWN AT 50X)

CABLE SPAN CALLOUT - PROPOSED
FOR USE ON PAPER SPACE (SHOWN AT 50X)

CONDUIT CALLOUT - EXISTING
FOR USE ON PAPER SPACE (SHOWN AT 50X)
WITH OR WITHOUT INNER DUCT INFO

CONDUIT CALLOUT - PROPOSED
FOR USE ON PAPER SPACE (SHOWN AT 50X)
WITH OR WITHOUT INNER DUCT INFO

STRAND CALLOUT - EXISTING
FOR USE ON PAPER SPACE (SHOWN AT 50X)

STRAND CALLOUT - PROPOSED
FOR USE ON PAPER SPACE (SHOWN AT 50X)



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CONFIDENTIAL/PROPRIETARY				
				SHEET: 3 OF 16

GENERAL NOTES & SPECIAL PROVISIONS

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. (SEGRA STANDARD IS 48" DEEP UNLESS OTHERWISE DIRECTED BY A SEGRA 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 SEGRA 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 SEGRA 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 SEGRA EMPLOYEE.

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

CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE SEGRA 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 SEGRA 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 OR 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 EASEMENTS 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

THREE (3) FEET IS TO BE INTERPRETED AS THE MINIMUM VERTICAL SEPARATION REQUIREMENT WHEN CROSSING WATER, SEWER, AND/OR STORM DRAIN LINES AND ASSOCIATED STRUCTURES.

THE HORIZONTAL SEPARATION PATH BETWEEN A NEW UTILITY AND EXISTING UTILITY SHOULD BE BOTH DESIGN AND TARGETED AT A MINIMUM DISTANCE OF 10 FEET OR MORE. REDUCTIONS IN THIS GUIDELINE MAY BE CONSIDERED ON A CASE BY CASE BASIS. IF APPROVED, AT NO TIME WILL THE MINIMUM SEPARATION SHOW ON THE PLANS OR TARGETED IN THE FIELD, BE INSIDE THE ABSOLUTE MINIMUM OF 5 FEET HORIZONTAL SEPARATION BETWEEN ANY EXISTING UTILITY MAIN (AND/OR ASSOCIATED STRUCTURES) AND THE NEW UTILITY. THIS SEPARATION IS TO BE MEASURED FROM THE OUTSIDE DIAMETER OF THE KNOWN UTILITY TO THE OUTSIDE EDGE OF THE CONDUIT BUNDLE.

THE HORIZONTAL SEPARATION REQUIREMENT MAY BE WAIVED IF THE PROPOSED CONDUIT IS INSTALLED AT A DEPTH, BELOW AND RELATIVE TO THE ADJACENT EXISTING UTILITY, WHICH MEETS THE MINIMUM VERTICAL SEPARATION REQUIREMENTS ABOVE. DEPTHS OF ADJACENT WATER MAINS SHALL BE DETERMINED BY POTHOLING THE MAIN EVERY 100 FEET.

HANDHOLES, VAULTS, MANHOLES ECT. SHALL NOT BE PLACED WITHIN SIDEWALKS UNLESS PREVENTED BY LACK OF RIGHT-OF-WAY. IN NO CASE SHALL ANY APPURTENANCE BE PLACED IN A CURB RAMP OR POTENTIAL FUTURE LOCATION OF A CURB RAMP AT AN INTERSECTION.

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).

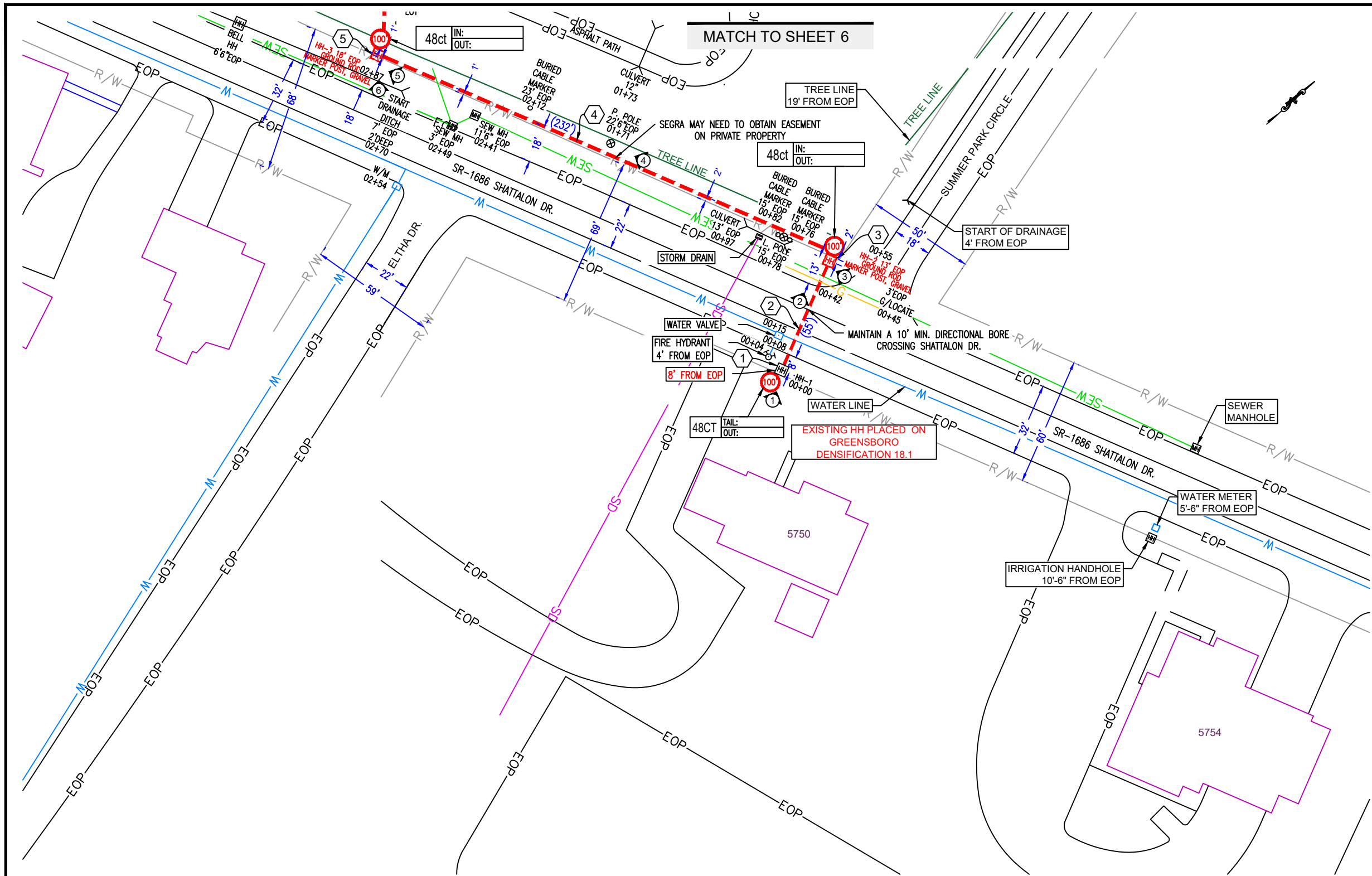
SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING.

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



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3				AS-BUILT
2	03/30/20	KR	DWF	REVISION # 1
1	01/07/20	KR	CW	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
SOUTH CAROLINA TELECOMMUNICATIONS GROUP HOLDINGS, LLC d/b/a SEGRA				
PROJECT MANAGER: RYAN HUSSEY				
ENGINEERING FIRM: TPRC BROADBAND				
SO/EWO#, EBS# 1646030 / EWO.103628..SPC / 459244-001				
PROJECT: ADDICTION RECOVERY CARE ASSOCIATION INC.				
ADDRESS: 5755 SHATTALON DR., WINSTON-SALEM, NC				
DRAWING NAME: 5755 Shattalon Dr (Revision).dwg				
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				SHEET: 4 OF 16



- ### CONSTRUCTION NOTES
- 1 EXISTING SEGRA HANDHOLE-1
NOTES: HANDHOLE TO BE PLACED ON GREENSBORO DENSIFICATION 18.1
-(1) 96CT RING CUT TO EXISTING HH-1
 - 2 CABLE FIBERS: 48CT FOC
CABLE OWNER: SEGRA
CABLE LENGTH: 155'
NOTES: PULL NEW 48CT FOC 55' FROM EXISTING HANDHOLE-1 TO PROPOSED HANDHOLE-2. LEAVING A 100' SERVICE COIL AT EXISTING HANDHOLE-1.

CONDUIT OWNER: SEGRA
CONDUIT LENGTH: 55'
CONDUIT QTY: 3
CONDUIT SIZE: 1-1/4"
CONDUIT TYPE: HDPE
NOTE: DIRECTIONAL BORE (3) NEW 1-1/4" HDPE 55' FROM EXISTING HANDHOLE-1 TO PROPOSED HANDHOLE-2.
 - 3 HANDHOLE-2 WITH GROUND ROD, MARKER POST, & GRAVEL
NOTE: 30"x48"x36" E/W NCDOT LID RATING AT 20,000 LBS
 - 4 CABLE FIBERS: 48CT FOC
CABLE OWNER: SEGRA
CABLE LENGTH: 332'
NOTES: PULL NEW 48CT FOC 232' FROM PROPOSED HANDHOLE-2 TO PROPOSED HANDHOLE-3. LEAVING A 100' SLACK LOOP AT PROPOSED HANDHOLE-2.

CONDUIT OWNER: SEGRA
CONDUIT LENGTH: 232'
CONDUIT QTY: 3
CONDUIT SIZE: 1-1/4"
CONDUIT TYPE: HDPE
NOTE: DIRECTIONAL BORE (3) NEW 1-1/4" HDPE 232' FROM PROPOSED HANDHOLE-2 TO PROPOSED HANDHOLE-3.
 - 5 HANDHOLE-3 WITH GROUND ROD, MARKER POST, & GRAVEL
NOTE: 30"x48"x36" E/W NCDOT LID RATING AT 20,000 LBS

Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
201-2 - Directional Bore - Heavy Metro (2) 1.25" HDPE SDR11	FT	287'	
201-3 - adder - Pull back additional 1.25" HDPE (up to 4)	FT	287'	
201-10 - Channell Tier 22 handhole-30"x48"x36" Installed w/Ground Rod	EA	2	
201-16 - Marker Pole Installation (Pole Supplied by SEGRA)	EA	2	
201-20 - Enter Existing Handhole	EA	1	
301-1 - Cable Placement in Conduit	FT	487'	
301-2 - Install Locate Wire #12 Solid/Shielded	FT	287'	

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.

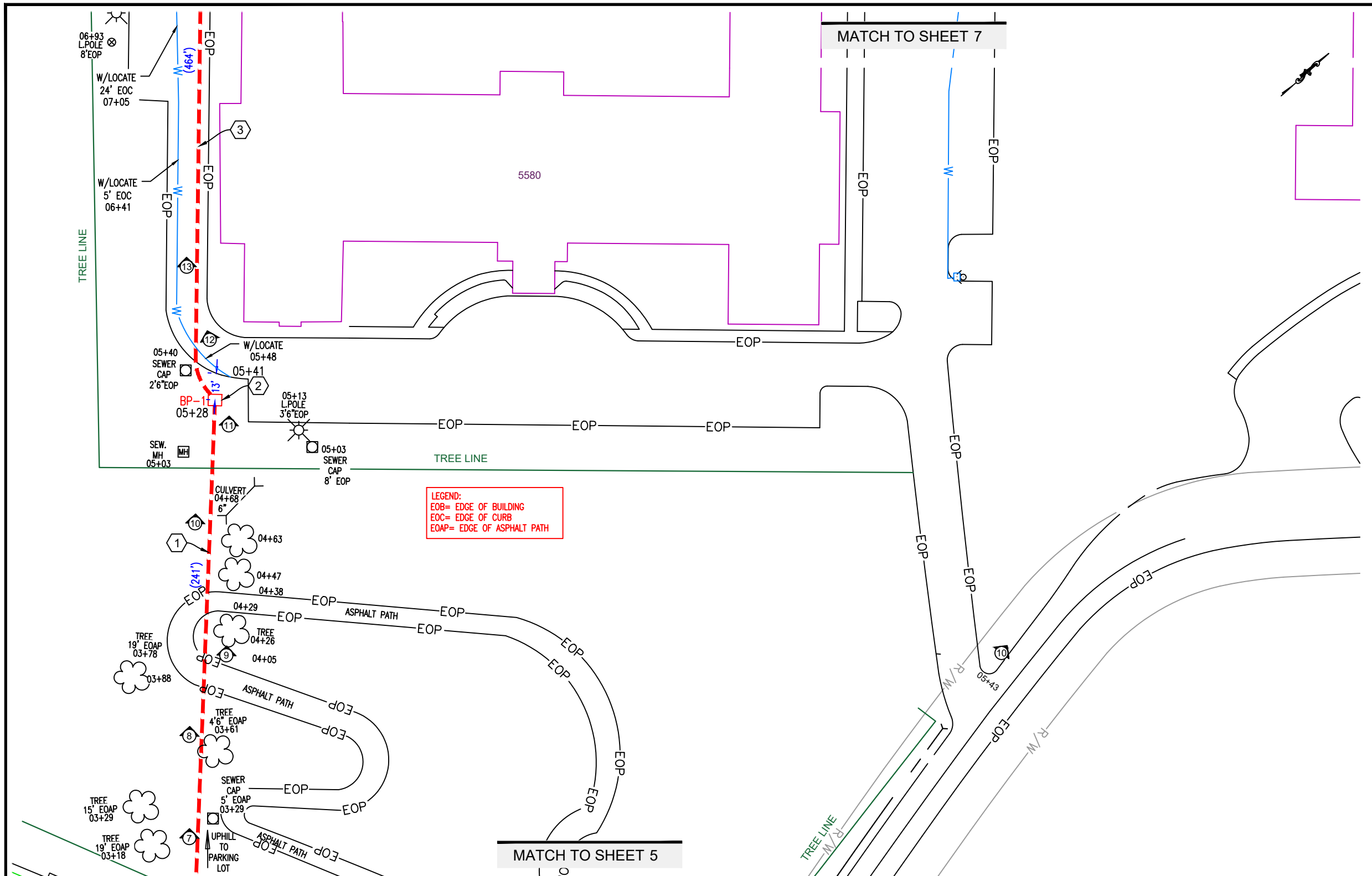
SYMBOL CORRESPONDS TO PHOTO LOCATIONS AND ORIENTATION. SEE SHEET # FOR SITE PHOTOGRAPHS.

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SOUTH CAROLINA TELECOMMUNICATIONS GROUP HOLDINGS, LLC d/b/a SEGRA

PROJECT MANAGER: RYAN HUSSEY
 ENGINEERING FIRM: TPRC BROADBAND
 SO/EWO#, EBS#: 1646030 / EWO.103628..SPC / 459244-001
 PROJECT: ADDICTION RECOVERY CARE ASSOCIATION INC.
 ADDRESS: 5755 SHATTALON DR., WINSTON-SALEM, NC
 DRAWING NAME: 5755 Shattalon Dr (Revision).dwg

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- ### CONSTRUCTION NOTES
- 1 CABLE FIBERS: 48CT FOC
 CABLE OWNER: SEGRA
 CABLE LENGTH: 341'
 NOTES: PULL NEW 48CT FOC 241' FROM PROPOSED HANDHOLE-3 TO PROPOSED BORE PIT-1. LEAVING A 100' SLACK LOOP AT PROPOSED HANDHOLE-3.
 CONDUIT OWNER: SEGRA
 CONDUIT LENGTH: 241'
 CONDUIT QTY: 3
 CONDUIT SIZE: 1-1/4"
 CONDUIT TYPE: HDPE
 NOTE: DIRECTIONAL BORE (3) NEW 1-1/4" HDPE 241' FROM PROPOSED HANDHOLE-3 TO PROPOSED BORE PIT-1.
 - 2 PROPOSED SMALL BORE PIT-1
 SIZE: 6'X4'X5'
 - 3 CABLE FIBERS: 48CT FOC
 CABLE OWNER: SEGRA
 CABLE LENGTH: 464'
 NOTES: PULL NEW 48CT FOC 464' FROM PROPOSED BORE PIT-1 TO PROPOSED BORE PIT-2.
 CONDUIT OWNER: SEGRA
 CONDUIT LENGTH: 464'
 CONDUIT QTY: 3
 CONDUIT SIZE: 1-1/4"
 CONDUIT TYPE: HDPE
 NOTE: DIRECTIONAL BORE (3) NEW 1-1/4" HDPE 464' FROM PROPOSED BORE PIT-1 TO PROPOSED BORE PIT-2.

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Unit Code & Description	Units	Estimated Quantity	Actual Quantity
201-2 - Directional Bore - Heavy Metro (2) 1.25" HDPE SDR11	FT	705'	
201-3 - adder - Pull back additional 1.25" HDPE (up to 4)	FT	705'	
201-19 - Bore Pit	EA	1	
301-1 - Cable Placement in Conduit	FT	805'	
301-2 - Install Locate Wire #12 Solid/Shielded	FT	705'	

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811
 Know what's below.
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0 10' 20' 30' 40' 50'
 SCALE: 1"=50'

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

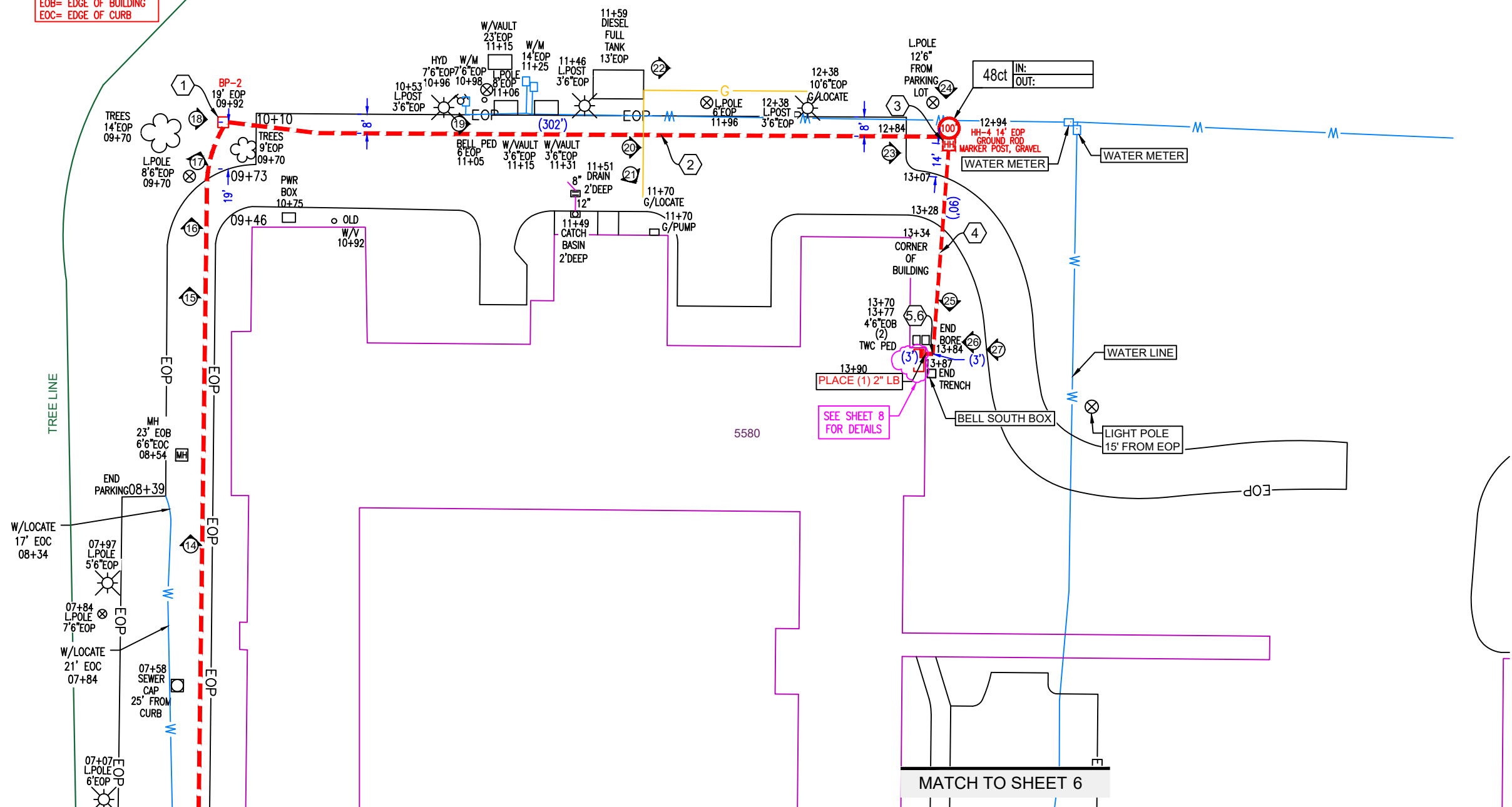
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1	01/07/20	KR	CW	ORIGINAL

SOUTH CAROLINA TELECOMMUNICATIONS GROUP HOLDINGS, LLC d/b/a SEGRA

PROJECT MANAGER: RYAN HUSSEY
 ENGINEERING FIRM: TPRC BROADBAND
 SO/EWO#, EBS# 1646030 / EWO.103628.SPC / 459244-001
 PROJECT: ADDICTION RECOVERY CARE ASSOCIATION INC.
 ADDRESS: 5755 SHATTALON DR., WINSTON-SALEM, NC
 DRAWING NAME: 5755 Shattalon Dr (Revision).dwg

CONFIDENTIAL/PROPRIETARY SHEET: 6 OF 16

LEGEND:
EOB= EDGE OF BUILDING
EOC= EDGE OF CURB



CONSTRUCTION NOTES

- 1 PROPOSED SMALL BORE PIT-2
SIZE: 6'X4'X5'
- 2 CABLE FIBERS: 48CT FOC
CABLE OWNER: SEGRA
CABLE LENGTH: 302'
NOTES: PULL NEW 48CT FOC 302' FROM PROPOSED SMALL BORE PIT-2 TO PROPOSED HANDHOLE-4.

CONDUIT OWNER: SEGRA
CONDUIT LENGTH: 302'
CONDUIT QTY: 3
CONDUIT SIZE: 1-1/4"
CONDUIT TYPE: HDPE
NOTE: DIRECTIONAL BORE (3) NEW 1-1/4" HDPE 302' FROM PROPOSED SMALL BORE PIT-2 TO PROPOSED HANDHOLE-4.
- 3 HANDHOLE-4 WITH GROUND ROD, MARKER POST, & GRAVEL
NOTE: 30"X48"X36" E/W NCDOT LID
RATING AT 20,000 LBS
- 4 CABLE FIBERS: 48CT FOC
CABLE OWNER: SEGRA
CABLE LENGTH: 190'
NOTES: PULL NEW 48CT FOC 90' FROM PROPOSED HANDHOLE-4 TO START OF TRENCH LEAVE A 100' SLACK LOOP AT PROPOSED HANDHOLE-4

CONDUIT OWNER: SEGRA
CONDUIT LENGTH: 90'
CONDUIT QTY: 1
CONDUIT SIZE: 1-1/4"
CONDUIT TYPE: HDPE
NOTE: DIRECTIONAL BORE (1) NEW 1-1/4" HDPE 90' FROM PROPOSED HANDHOLE-4 TO START OF TRENCH.
- 5 CABLE FIBERS: 48CT FOC
CABLE OWNER: SEGRA
CABLE LENGTH: 3'
NOTES: PULL NEW 48CT FOC 3' FROM END OF DIRECTIONAL BORE TO BUILDING WALL.

CONDUIT OWNER: SEGRA
CONDUIT LENGTH: 3'
CONDUIT QTY: 1
CONDUIT SIZE: 1-1/4"
CONDUIT TYPE: HDPE
NOTE: TRENCH (1) NEW 1-1/4" HDPE 3' FROM END OF DIRECTIONAL BORE TO BUILDING WALL.
- 6 CABLE FIBERS: 48CT FOC
CABLE OWNER: SEGRA
CABLE LENGTH: 3'
NOTES: PULL NEW 48CT FOC 3' UP BUILDING WALL TO CORE BORE LOCATION.
-PLACE (1) 2" LB

CONDUIT OWNER: SEGRA
CONDUIT LENGTH: 3'
CONDUIT QTY: 1
CONDUIT SIZE: 2"
CONDUIT TYPE: PVC
NOTE: PLACE (1) NEW 2" PVC 3' UP BUILDING WALL TO PROPOSED ENTRY POINT.

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NO.	DATE	ENG DESIGN	DRAFTING	COMMENT

SOUTH CAROLINA TELECOMMUNICATIONS GROUP HOLDINGS, LLC d/b/a SEGRA

PROJECT MANAGER: RYAN HUSSEY
ENGINEERING FIRM: TPRC BROADBAND
SO/EWO#, EBS# 1646030 / EWO.103628.SPC / 459244-001
PROJECT: ADDICTION RECOVERY CARE ASSOCIATION INC.
ADDRESS: 5755 SHATTALON DR., WINSTON-SALEM, NC
DRAWING NAME: 5755 Shattalon Dr (Revision).dwg

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Unit Code & Description	Units	Estimated Quantity	Actual Quantity
201-1 - Directional Bore up to (2) 1.25" HDPE SDR11	FT	90'	
201-2 - Directional Bore - Heavy Metro (2) 1.25" HDPE SDR11	FT	302'	
201-3 - adder - Pull back additional 1.25" HDPE (up to 4)	FT	302'	
201-9 - Hand Trench (1) 1.25" HDPE SDR11 Pipe - 36" min depth	FT	3'	
201-10 - Channell Tier 22 handhole-30"x48"x36" Installed w/Ground Rod	EA	1	
201-16 - Marker Pole Installation (Pole Supplied by SEGRA)	EA	1	
201-19 - Bore Pit	EA	1	
203-4 - Core Bore Exterior Building Wall	EA	1	
203-6 - Building Entry with up to 4" Core Bore (Riser & LB)	EA	1	
203-8 - Build ISP Raceway (PVC)	FT	3'	

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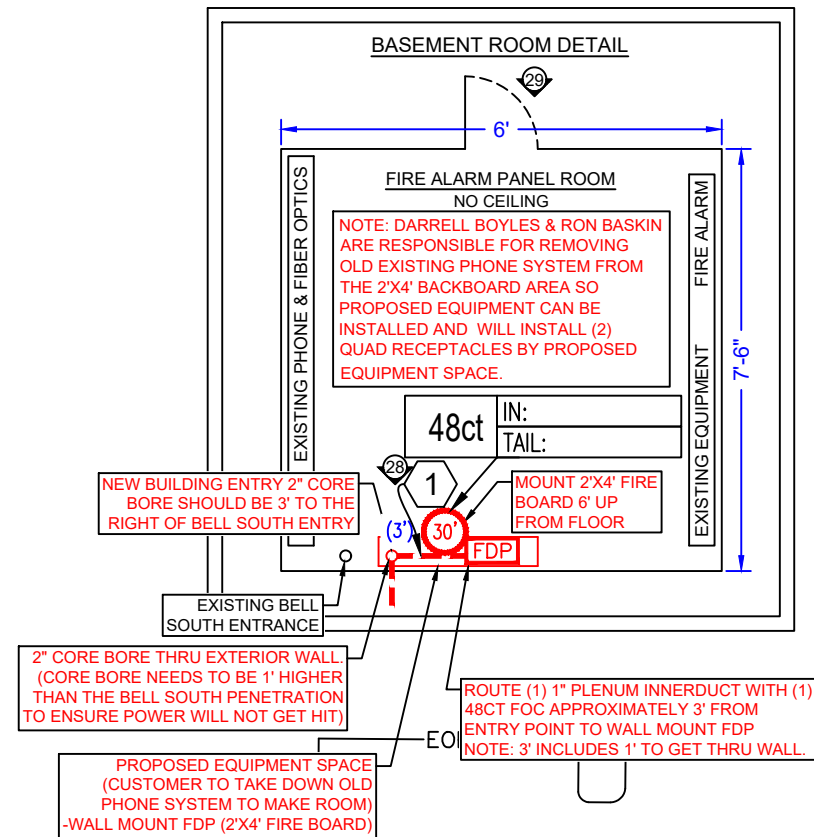
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
301-1 - Cable Placement in Conduit	FT	498'	
301-2 - Install Locate Wire #12 Solid/Shielded	FT	395'	

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.

CONSTRUCTION NOTES

- 1 CABLE FIBERS: 48CT FOC
 CABLE OWNER: SEGRA
 CABLE LENGTH: 33'
 NOTES: PULL NEW 48CT FOC 3' FROM CORE BORE TO FDP
 LEAVE A 30' SERVICE COIL AT PROPOSED FDP
 -PLACE (1) 2'X4' BACKBOARD
 -PLACE (1) WALL MOUNT FDP

- CONDUIT OWNER: SEGRA
 CONDUIT LENGTH: 3'
 CONDUIT QTY: 1
 CONDUIT SIZE: 1"
 CONDUIT TYPE: PLENUM INNERDUCT
 NOTE: PLACE (1) NEW 1" PLENUM INNERDUCT 3' FROM CORE BORE TO FDP



Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
203-9 - Build ISP Raceway (Plenum Rated I-Duct)	FT	3'	
203-10 - Mount Plywood Backboard 2'x4'	EA	1	
203-11 - Mount Wall Mount FDP	EA	1	
301-1 - Cable Placement in Conduit	FT	33'	

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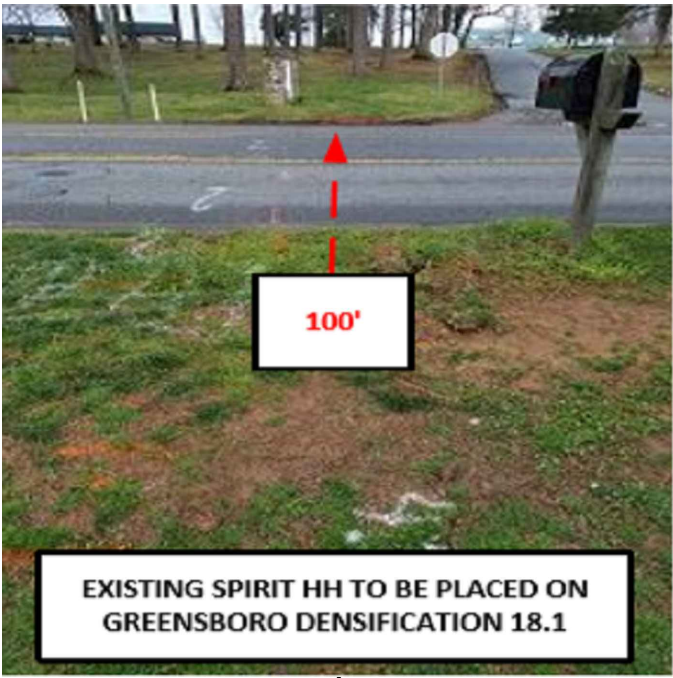
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SOUTH CAROLINA TELECOMMUNICATIONS GROUP HOLDINGS, LLC d/b/a SEGRA

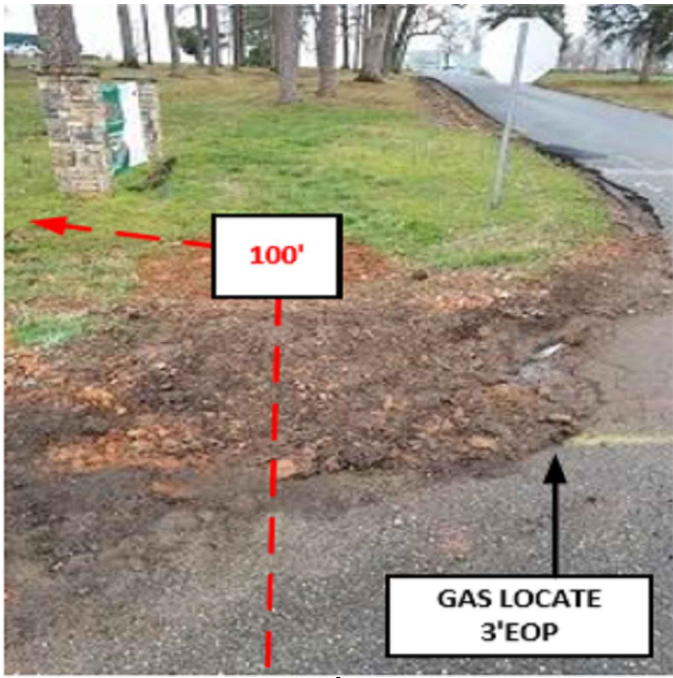
PROJECT MANAGER: RYAN HUSSEY
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CONFIDENTIAL/PROPRIETARY SHEET: 8 OF 16

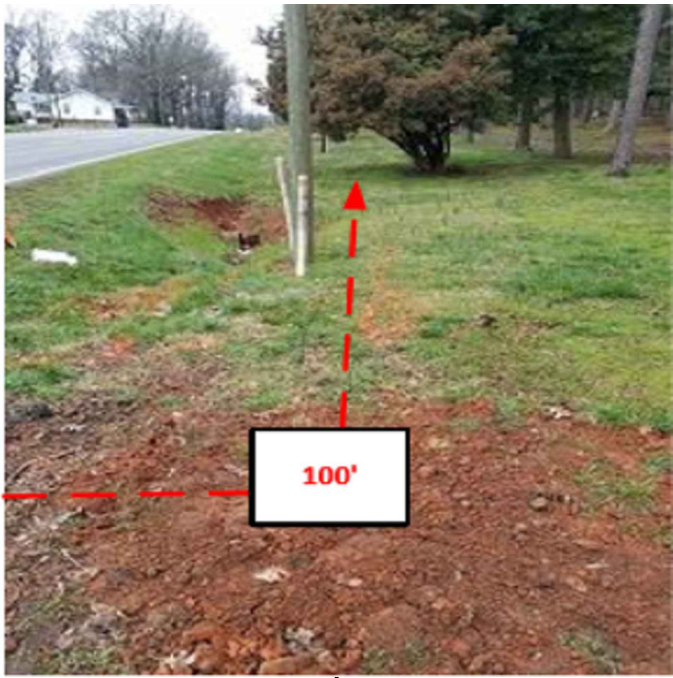
SITE PHOTOGRAPHS



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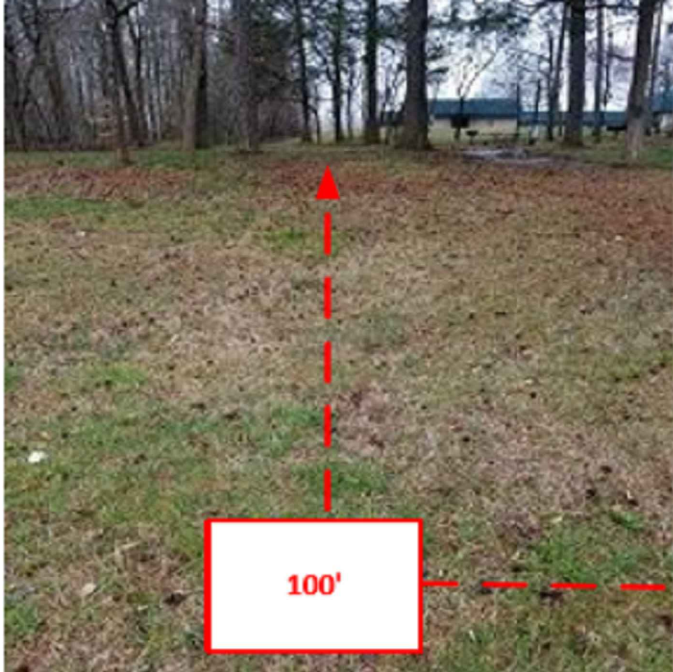
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SITE PHOTOGRAPHS



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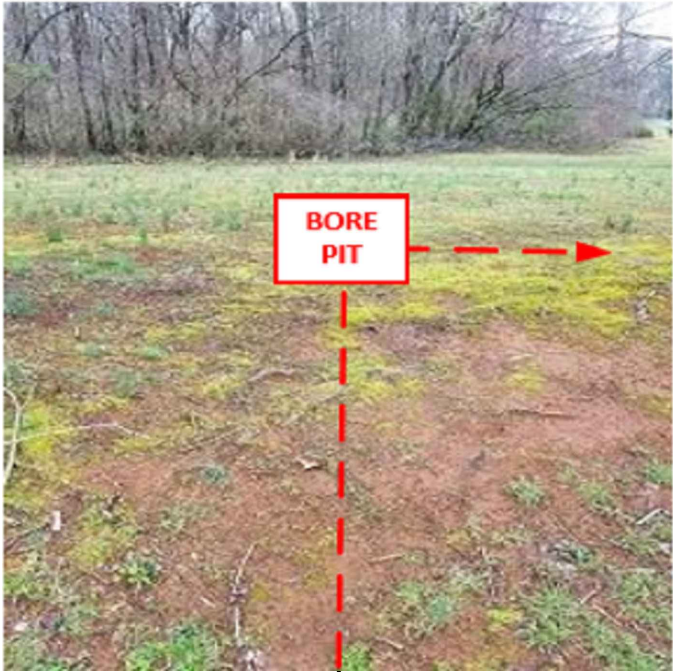


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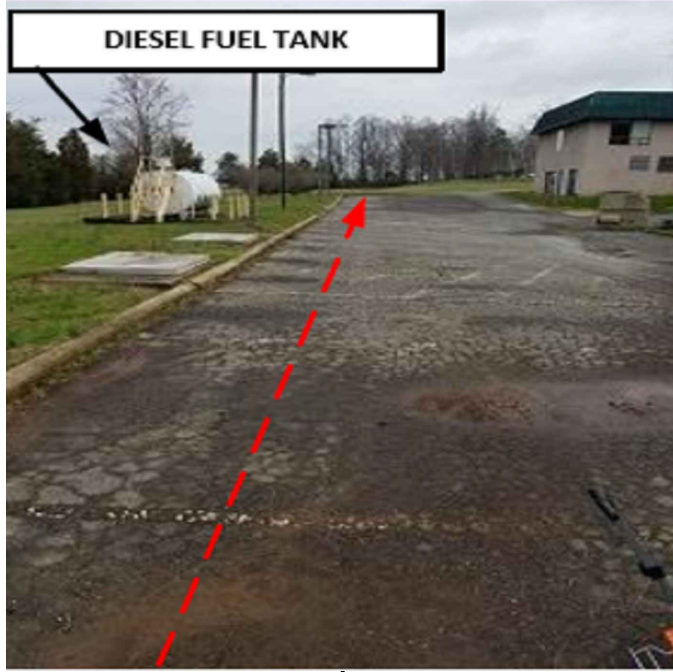
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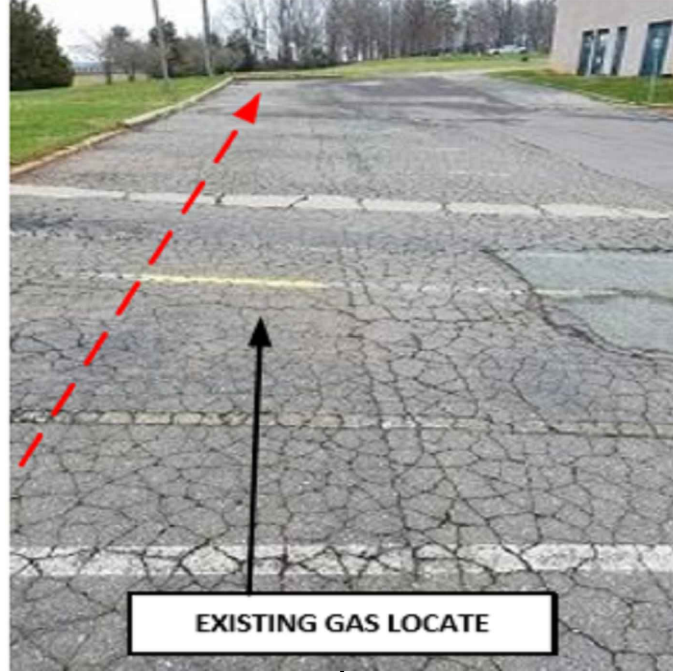
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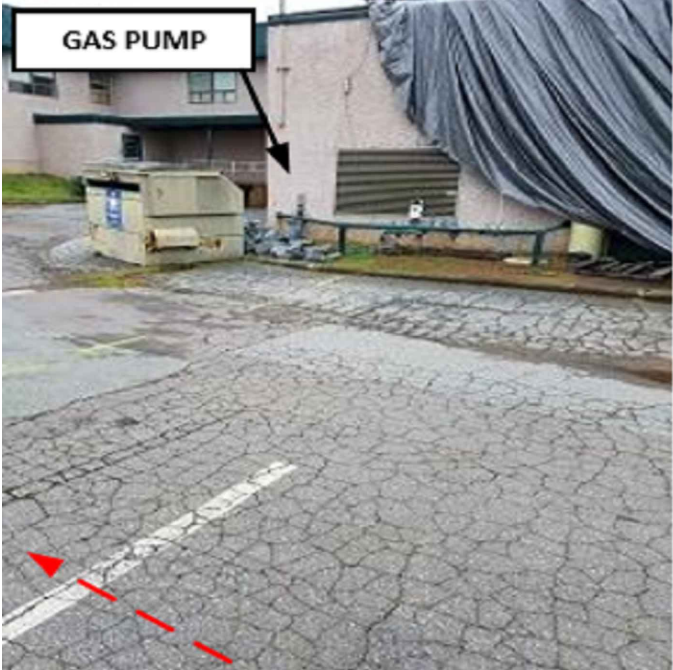
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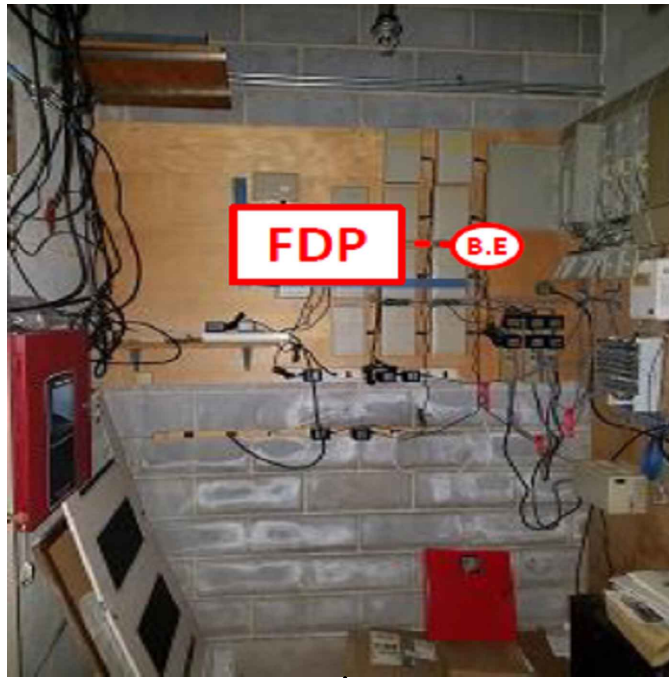
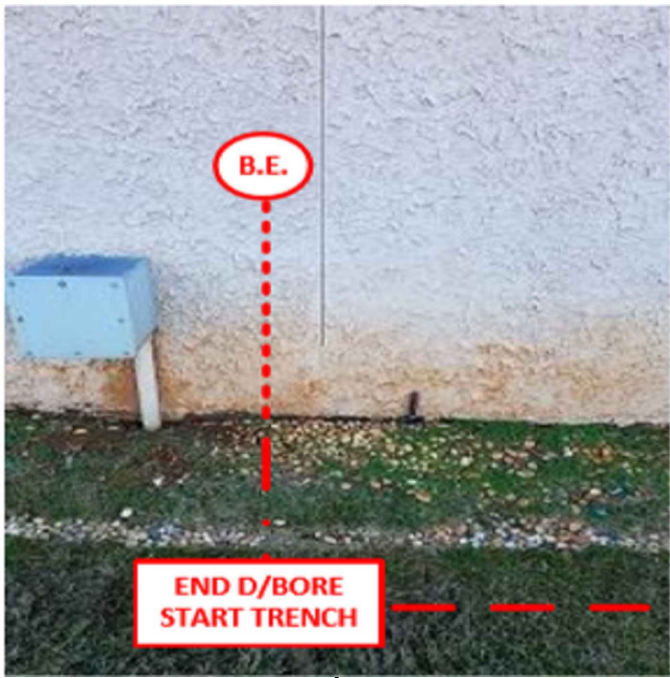
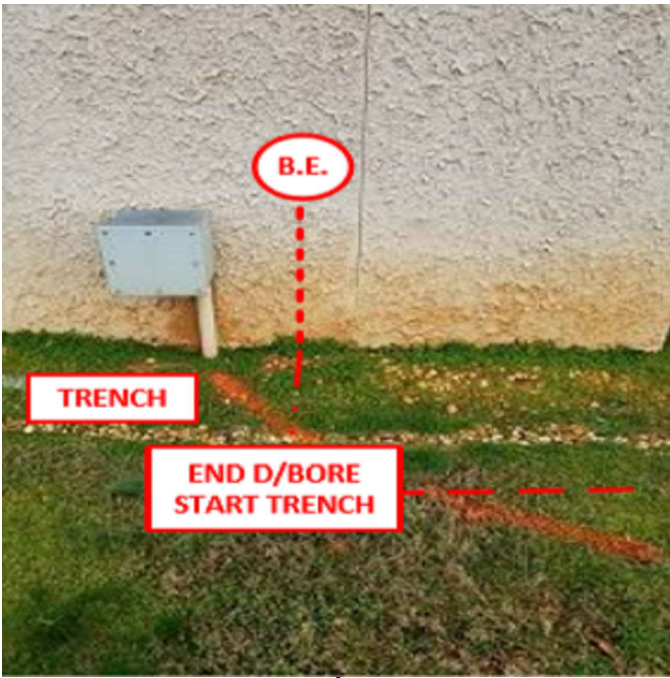
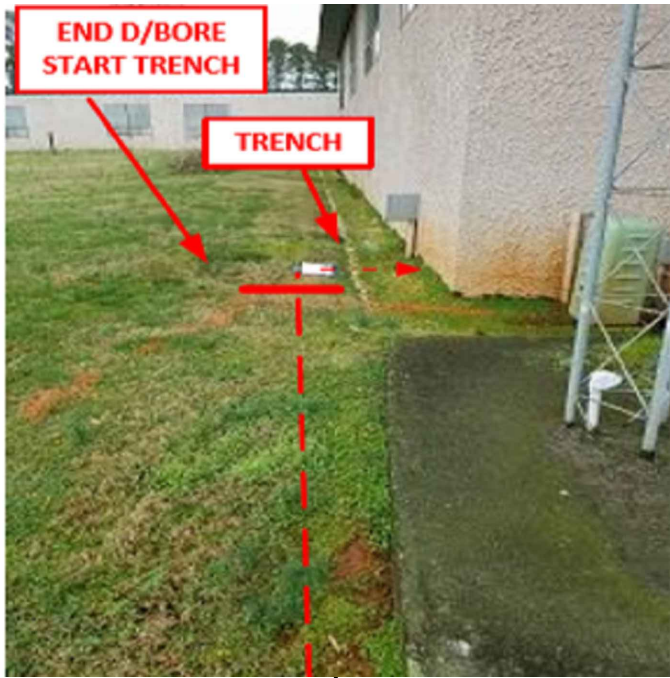
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SOUTH CAROLINA TELECOMMUNICATIONS GROUP HOLDINGS, LLC d/b/a SEGRA

PROJECT MANAGER: RYAN HUSSEY
 ENGINEERING FIRM: TPRC BROADBAND
 SO/EWO#, EBS# 1646030 / EWO.103628..SPC / 459244-001
 PROJECT: ADDICTION RECOVERY CARE ASSOCIATION INC.
 ADDRESS: 5755 SHATTALON DR., WINSTON-SALEM, NC
 DRAWING NAME: 5755 Shattalon Dr (Revision).dwg

CONFIDENTIAL/PROPRIETARY SHEET: 11 OF 16

SITE PHOTOGRAPHS



Know what's below.
Call before you dig.

3				AS-BUILT
2	03/30/20	KR	DWF	REVISION # 1
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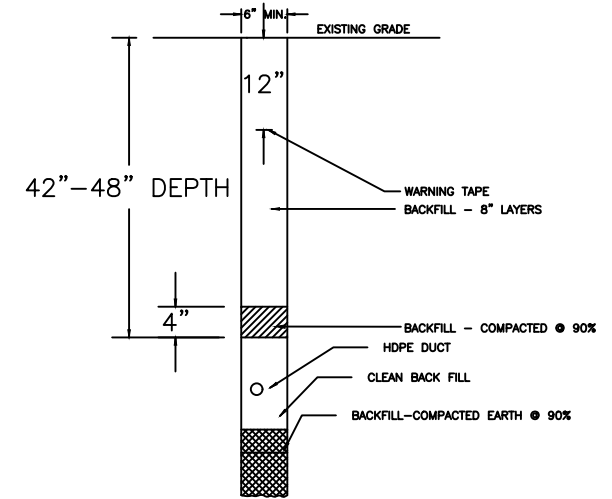
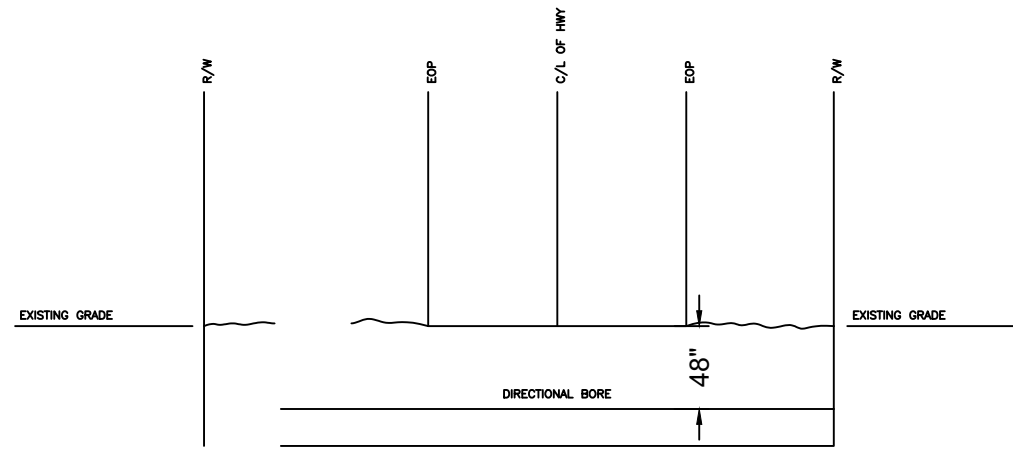
SOUTH CAROLINA TELECOMMUNICATIONS GROUP HOLDINGS, LLC d/b/a SEGRA

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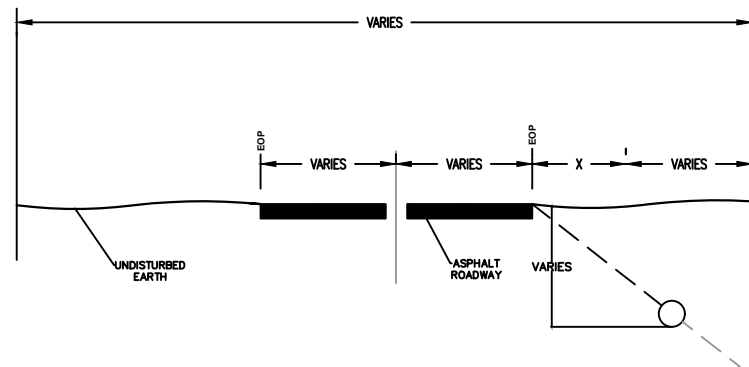
TYPICALS

TYPICAL DETAIL - #1
DIRECTIONAL BORE



TYPICAL DETAIL - #4
TRENCH IN SOIL (NON TRAFFIC AREAS)

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

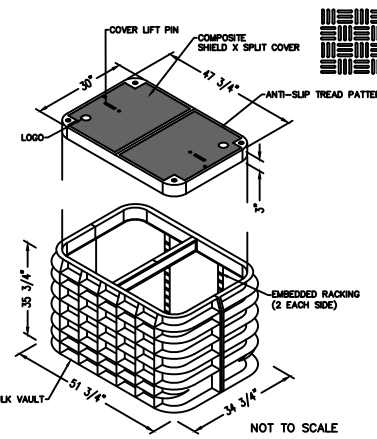


DIMENSIONS			
	LENGTH	WIDTH	DEPTH
OUTSIDE	51 3/4"	34 3/4"	35 3/4"
INSIDE	46 1/2"	28 3/4"	32 3/4"

- FEATURES:**
 30" X 48" X 36" (open floor) (actual dimensions on drawing)
 BULK VAULT - SHIELD X Split COVER- Tier 22 Load Rated (ANSI/SCTE 77: 2013)
 (4) Cover locking Auger bolts, Hex (9/16") or Penta (7/8") head with washer
 (4) Non-Seizing Fastening System, Field Replaceable
 (4) Embedded Composite Rack Support
 (1) Lifting slot equipped with stainless steel pin (slot is approximately 2 3/4"x3")
 (4) Winterized Cable Drop slide (1 1/4" X 1 1/4")
 (1) Galvanized Center Beam
 (2) Logo Disk

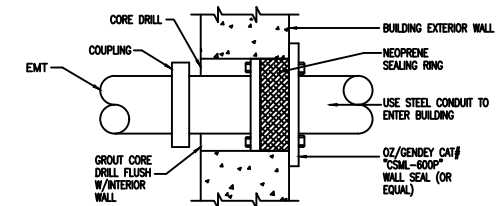
WEIGHT & SHIPPING:
 Cover Weight: 50 lbs (Per Half)
 Box Weight: 129 lbs
 Assembly Weight : 229 lbs

PERFORMANCE TESTING:
 ANSI/SCTE 77: 2013 - TIER 22 Rated (33,750 lbs)
 AS3996 - Class C
 EN124 Class B125
 ASTM C1028-07 & AS-4586 (Slip Resistance)
 10,000 Hour Xenon-Arc Exposure (No fiber-bloom)
 ASTM D635-06 (Flammability)



TYPICAL DETAIL - #3

BULK304836
 BULK VAULT HDPE STRUCTURAL FOAM
 SHIELD X COMPOSITE COVER
 CHANNEL - BULK304836B1420
 NP10-5508



TYPICAL DETAIL - #2
CONDUIT SEAL



Know what's below.
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TYPICALS

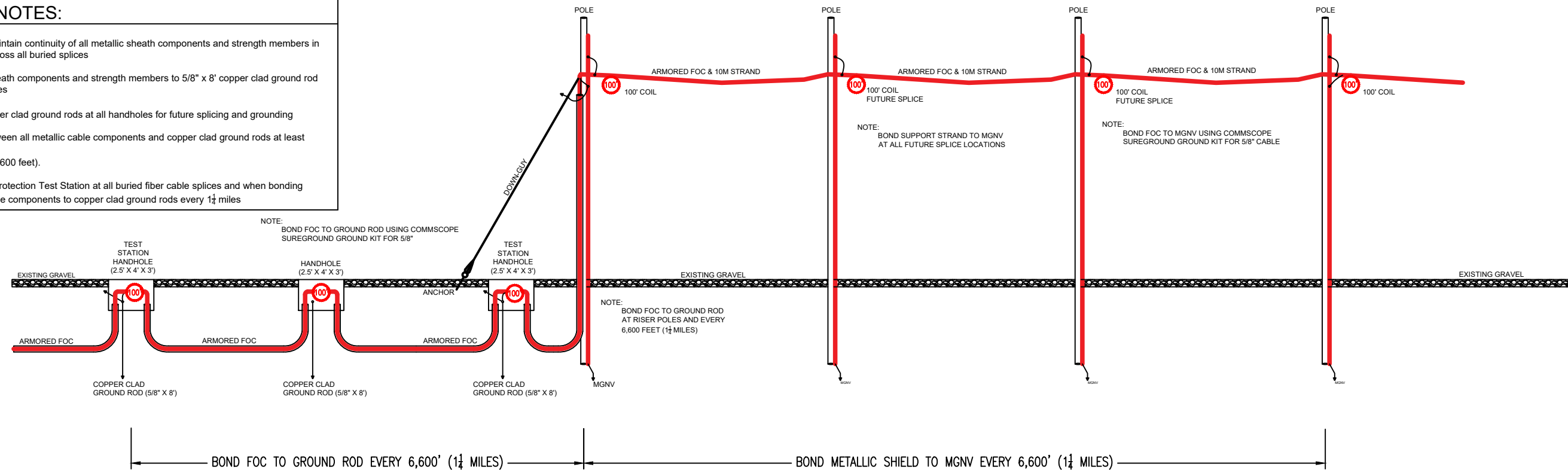
BONDING AND GROUNDING DETAILS

AERIAL NOTES:

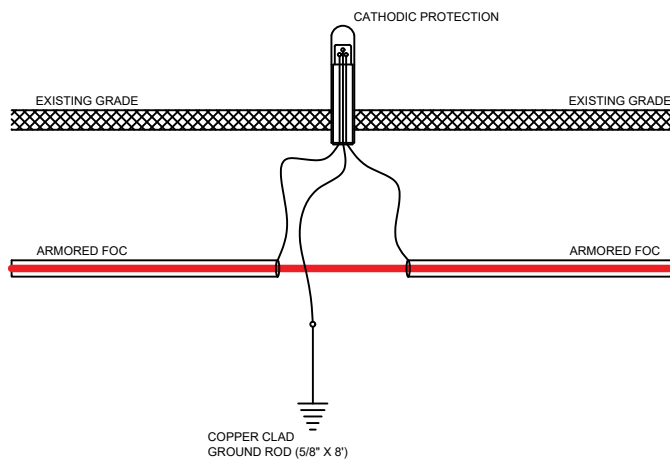
1. Establish and maintain continuity of all metallic components (strength member, shield, moisture barrier, armor) across all aerial splices.
2. Bond metallic components to the support strand at all splice locations
3. Bond support strand to pole MGNV at all riser poles, fiber loop (2,000') locations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

BURIED NOTES:

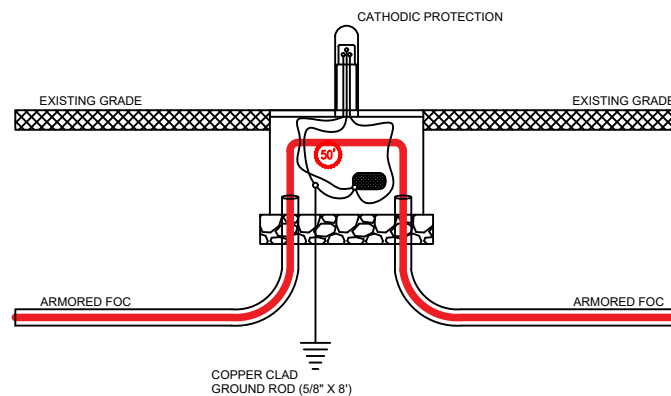
1. Establish and maintain continuity of all metallic sheath components and strength members in the cable and across all buried splices
2. Bond metallic sheath components and strength members to 5/8" x 8' copper clad ground rod at all buried splices
3. Place 5/8" x 8' copper clad ground rods at all handholes for future splicing and grounding
4. Place bonds between all metallic cable components and copper clad ground rods at least once every 1 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 1/4 miles



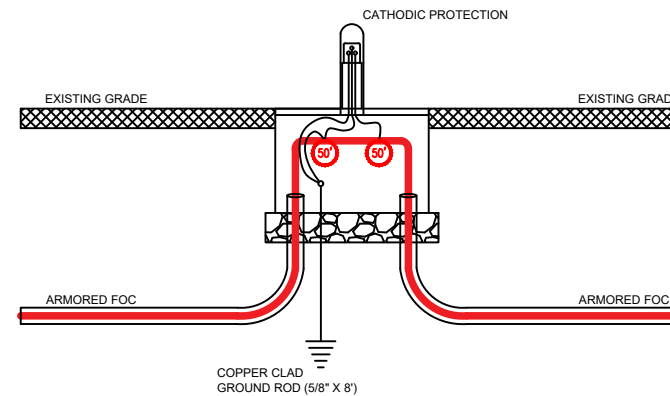
TEST STATION DETAIL SCHEMATIC



TEST STATION WITH FIELD SPLICE



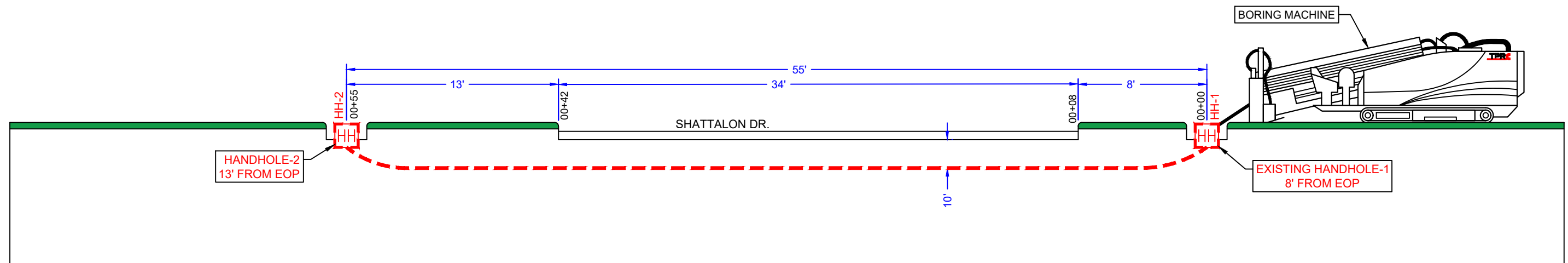
TEST STATION WITH COIL FOR FUTURE SPLICE



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BORE TYPICAL

DIRECTIONAL BORE DETAIL UNDER SHATTALON DR.



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Total Underground Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
201-1 - Directional Bore up to (2) 1.25" HDPE SDR11	FT	90'	
201-2 - Directional Bore - Heavy Metro (2) 1.25" HDPE SDR11	FT	1,294'	
201-3 - adder - Pull back additional 1.25" HDPE (up to 4)	FT	1,294'	
201-9 - Hand Trench (1) 1.25" HDPE SDR11 Pipe - 36" min depth	FT	3'	
201-10 - Channell Tier 22 handhole-30"x48"x36" Installed w/Ground Rod	EA	3	
201-16 - Marker Pole Installation (Pole Supplied by SEGRA)	EA	3	
201-19 - Bore Pit	EA	2	
201-20 - Enter Existing Handhole	EA	1	

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
203-4 - Core Bore Exterior Building Wall	EA	1	
203-6 - Building Entry with up to 4" Core Bore (Riser & LB)	EA	1	
203-8 - Build ISP Raceway (PVC)	FT	3'	
203-9 - Build ISP Raceway (Plenum Rated I-Duct)	FT	3'	
203-10 - Mount Plywood Backboard 2'x4'	EA	1	
203-11 - Mount Wall Mount FDP	EA	1	

MATERIAL TOTALS

48CT FOC	1,823'
1.25" HDPE	3,975'
1" PLENUM INNERDUCT	3'
2" PVC	3'
VAULT / HANDHOLE	3
GROUND ROD	3
MARKER POST	3
#12 AWG TRACER WIRE	1,387'
LB	1
2'X4' BACKBOARD	1
WALL MOUNT FDP	1
FOSC 450D SPLICE CLOSURE	2
72CT SPLICE TRAY	2
TALL BASKET	2

OSP 48CT. FIBER OPTIC CABLE	UNDERGROUND	1,393'
OSP 48CT. SERVICE COIL	UNDERGROUND	130'
OSP 48CT. SLACK LOOP	UNDERGROUND	300'
	JOB TOTAL (48CT):	1,823'

Cable Placement, Splicing, Testing ETC Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
301-1 - Cable Placement in Conduit	FT	1,823'	
301-2 - Install Locate Wire #12 Solid/Shielded	FT	1,387'	
301-7 - Fusion Splice 13-24	EA	1	
301-8 - Fusion Splice 25-48	EA	2	
301-11 - Bonding e/w (1) 8' Copper Rod	EA	3	
301-16 - Re-Enter Existing Closure	EA	1	
301-18 - FDP Installation at Customers locations	EA	1	

Material Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
401-10 - Channell Tier 22 handhole - 30"x48"x36"	EA	3	
401-13 - Fiber Termination Panel (Wall Mount)	EA	1	
401-16 - 8' copper ground rods	EA	3	
401-17 - Copper Tracer Wire (For Locating Purposes)	EA	1,387'	
401-18 - 1-1/4" HDPE SDR11	LF	3,975'	



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