

ADDRESS: St Address, City, State, Zip
PROJECT NAME:
SERVICE ORDER:
EBS:



CUSTOMER CONTACT

CUSTOMER NAME

###-###-####

EMAIL IF AVAILABLE

SEGRA ENGINEER

ENGINEER NAME

###-###-####

EMAIL IF AVAILABLE

DESIGN ENGINEER

ENGINEER NAME

FIRM NAME

###-###-####

EMAIL IF AVAILABLE

SITE INDEX

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- 11 - CONSTRUCTION TYPICALS
- 12 - CONSTRUCTION TYPICALS
- 13 - CONSTRUCTION TYPICALS
- 14 - RAKE OFF TOTAL

PERMITS REQUIRED

01 -

SCOPE OF WORK:

Scope of work should include the method of installation (boring/lashing/trenching), the proposed facilities (number of conduits), fiber optic cable, fiber optic cable count, length of installation, number of new handholes/bore pits, affected roadways, sidewalk removal/restoration, and pavement cut information.

3				AS-BUILT
2				REVISION # 1
1				ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT

South Carolina Telecommunications
Group Holdings, LLC d/b/a Segra

PROJECT MANAGER:
ENGINEERING FIRM: Byers Engineering
SO/EWO#, EBS#:
PROJECT NAME:
PROJECT LOCATION:
DRAWING NAME: CCR_PHASE_1-COLONIAL-LIFE-BLVD.DWG

SITE LOCATION



CONTACT LIST AND REQUIRED PERMITS

OUTSIDE PLANT ENGINEERING CONTACTS:

SEGRA ENGINEER: NAME - PHONE - EMAIL ADDRESS
DESIGN ENGINEER: NAME - PHONE - EMAIL ADDRESS

OUTSIDE PLANT CONSTRUCTION CONTRACTOR CONTACTS

SEGRA ENGINEER: NAME - PHONE - EMAIL ADDRESS
PROJECT SUPERVISOR: NAME - PHONE - EMAIL ADDRESS
FIELD CONSTRUCTION SUPERVISOR: NAME - PHONE - EMAIL

SEGRA EMERGENCY CONTACT NUMBERS:

NOC: 877-411-6930 noc@segra.com
CUSTOMER CARE: 833-467-3472 customercare@segra.com
SEGRA ENGINEER: NAME - CELL - OFFICE PHONE

SCOPE OF WORK:

Scope of work should include the method of installation (boring/lashing/trenching), the proposed facilities (number of conduits), fiber optic cable, fiber optic cable count, length of installation, number of new handholes/bore pits, affected roadways, sidewalk removal/restoration, and pavement cut information.

SC/NC/GA ONE CALL
CALL BEFORE YOU DIG
811 OR
###-###-####

UTILITY CONTACTS:

UTILITIES:
NAME & PHONE NUMBER

ELECTRIC:
NAME & PHONE NUMBER

GAS:
NAME & PHONE NUMBER

CABLE TV:
NAME & PHONE NUMBER

TELEPHONE:
NAME & PHONE NUMBER

WATER/SEWER:
NAME & PHONE NUMBER

GOVERNMENT CONTACTS:

CITY GOVERNMENT:
NAME & PHONE NUMBER

COUNTY GOVERNMENT:
NAME & PHONE NUMBER

STATE OF NC/SC/GA GOVERNMENT:
NAME & PHONE NUMBER

RIGHT OF WAY:
NAME & PHONE NUMBER

STATE OF NC/SC/GA DEPARTMENT OF PUBLIC SAFETY
NAME & PHONE NUMBER

HIGHWAY PATROL:
NAME & PHONE NUMBER

CITY POLICE:
NAME, PHONE NUMBER & ADDRESS

COUNTY POLICE:
NAME, PHONE NUMBER & ADDRESS

REQUIRED PERMITS:

1. ENTITY NAME
2. ENTITY NAME
3. INCLUDE ALL: MUNICIPALITIES, GOT, POWER, GAS, RAILROAD, ETC

PRIVATE EASEMENTS / RIGHT OF ENTRY

1. NAME, ADDRESS, CONTACT INFO
2. NAME, ADDRESS, CONTACT INFO
3. NAME ADDRESS, CONTACT INFO

SEGRA PERMITTING CONTACT:

NAME - PHONE - EMAIL OF PERMITTING ADMINISTRATOR

SITE DETAILS:

CALL PROPERTY OWNERS 24 HOURS IN ADVANCE

SITE & CUSTOMER CONTACT:

NAME: CUSTOMER CONTACT NAME
PHONE:
EMAIL:



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PROJECT LOCATION:				
DRAWING NAME: CCR_PHASE_1-COLONIAL-LIFE-BLVD.DWG				
CONFIDENTIAL/PROPRIETARY				
SHEET: 02 OF ##				

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

SYMBOL

DESCRIPTION

ASW	ASPHALT SIDEWALK
BIP	BLACK IRON PIPE
BSP	BLACK STEEL PIPE
CSW	CONCRETE SIDEWALK
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FACE OF CURB
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

	HANDHOLE - EXISTING
	HANDHOLE - PROPOSED
	MANHOLE - EXISTING
	MANHOLE - PROPOSED
	PULLBOX - EXISTING
	PULLBOX - 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

	UTILITY POLE - EXISTING
	POLE - PROPOSED
	TERMINATION - EXISTING
	TERMINATION - PROPOSED
	BUILDING CALLOUT - PROPOSED

	MANUFACTURER NAME	SPLICE POINT - EXISTING
	MANUFACTURER NAME	SPLICE POINT - PROPOSED

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

POLE NO	N/A
UTILITY1	0'-0"

POLE NO	N/A
UTILITY1	0'-0"

1	CABLE FIBERS: FIBERS
	CABLE OWNER: LEVEL3
	CABLE LENGTH: LENGTH
	NOTES:

1	CABLE FIBERS: FIBERS
	CABLE OWNER: LEVEL3
	CABLE LENGTH: LENGTH
	NOTES:

1	CONDUIT OWNER: LEVEL3
	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:

1	CONDUIT OWNER: LEVEL3
	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:

1	STRAND TYPE: TYPE
	STRAND LENGTH: LENGTH
	NOTES:

1	STRAND TYPE: TYPE
	STRAND LENGTH: LENGTH
	NOTES:

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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SHEET: 03 OF ##				

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 PLAVED 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.

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 SPIRIT 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 CHANGED 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 ON 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 LIVE 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.

IN CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK 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 JURISDICTION 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 SIRE 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 CORRESPONDENCES 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 PERFROMED TO INDUSTRYSTANDARDS.
- 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 STALES AT RIGHT ANGLES (90°) TO THE CONDUIT ALIGNMENT.

CLOSURES IDENTIFIED IN THE PLANS SHALL BE LOCATED BY THE CONTRACTOR. DEVIATION FROM THE 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 SPECIFICATION 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:

- A. 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.
- B. 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.

C. 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.

D. 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.

E. 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.



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SHEET: 04 OF ##				

CONSTRUCTION TYPICALS

APPENDIX B: PIPELINES

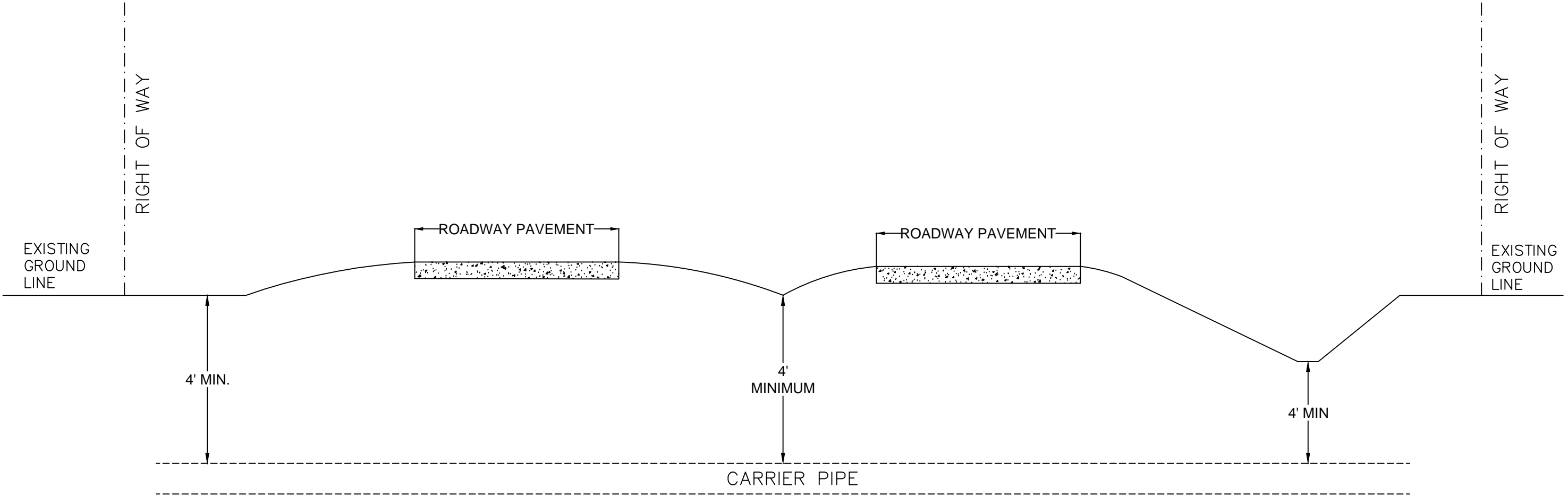
APP B-2

APPENDIX B PIPELINES

MARCH 2019

FIGURE 1A - EXAMPLES OF FEATURES FOR UNCASED PIPELINE CROSSINGS

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UNENCASED CROSSING

FIGURE 1A
EXAMPLE OF FEATURES FOR PIPELINE CROSSINGS



3				AS-BUILT
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CONFIDENTIAL/PROPRIETARY				
SHEET: 07 OF ##				

CONSTRUCTION TYPICALS

APPENDIX B: PIPELINES

APP B-7

APPENDIX B PIPELINES

MARCH 2019

FIGURE 6 - LONGITUDINAL INSTALLATION OF UTILITIES IN ROADWAY SHOULDERS

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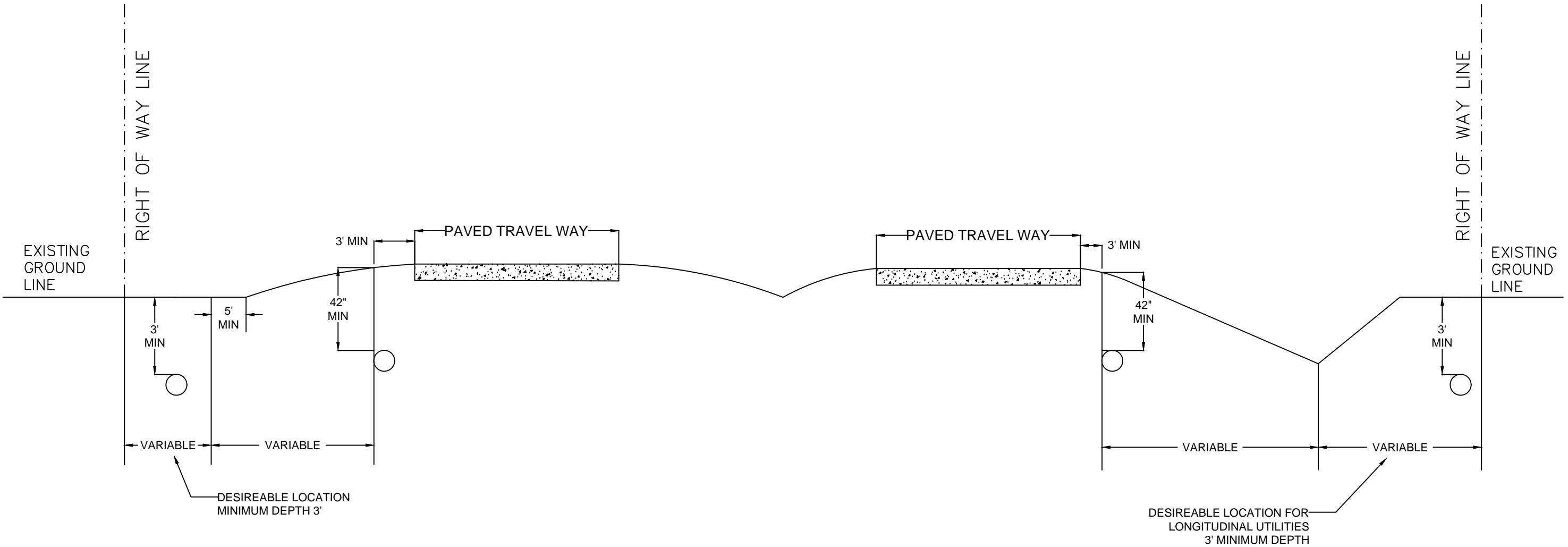


FIGURE 6
CROSS SECTION SHOWING
LONGITUDINAL INSTALLATION OF
UTILITIES IN ROADWAY SHOULDERS



3				AS-BUILT
2				REVISION # 1
1				ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
South Carolina Telecommunications Group Holdings, LLC d/b/a Segra				
PROJECT MANAGER:				
ENGINEERING FIRM: Byers Engineering				
SO/EWO#, EBS#:				
PROJECT NAME:				
PROJECT LOCATION:				
DRAWING NAME: CCR_PHASE_1-COLONIAL-LIFE-BLVD.DWG				
CONFIDENTIAL/PROPRIETARY				
SHEET: 08 OF ##				

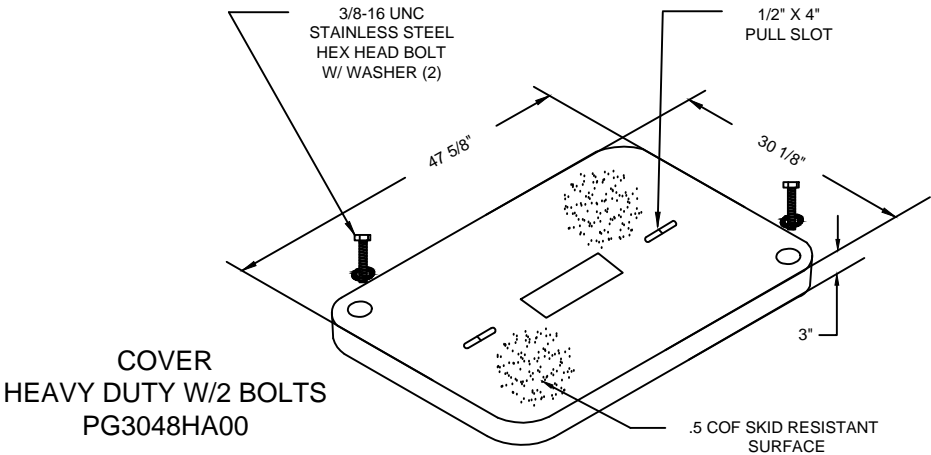
BURIED CABLE CONSTRUCTION DETAILS

HANDHOLE SIZE 30"X48"X36"

DETAIL "A"

EXPLODED ISOMETRIC DETAIL

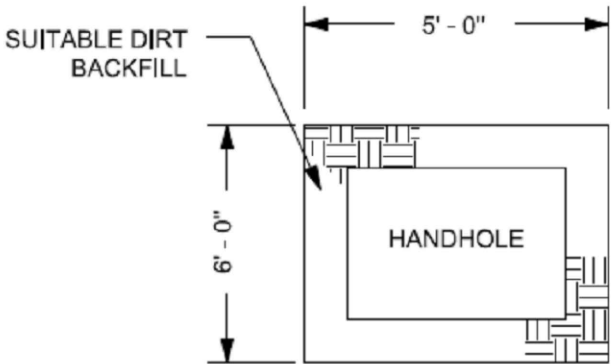
QUAZITE PG3048BA36



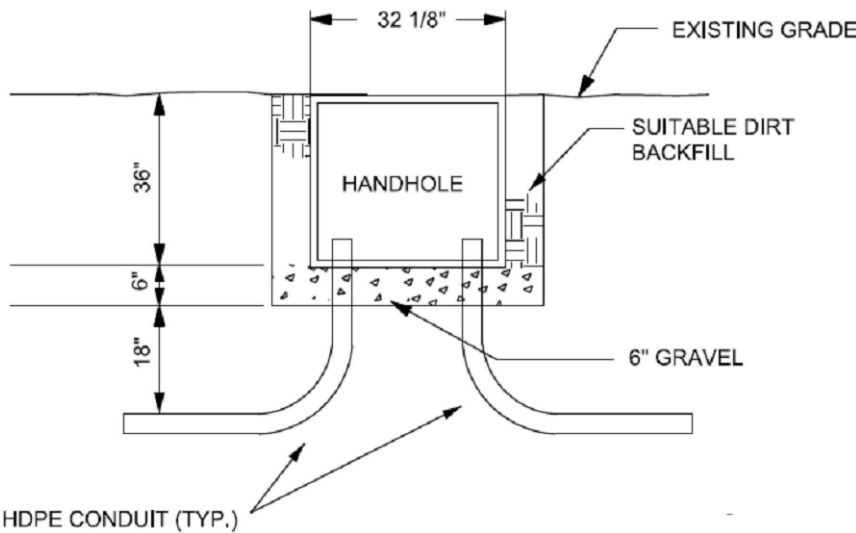
DETAIL "B"

EXCAVATION PIT

PLAN



PROFILE

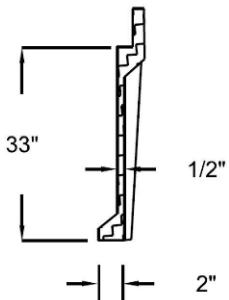
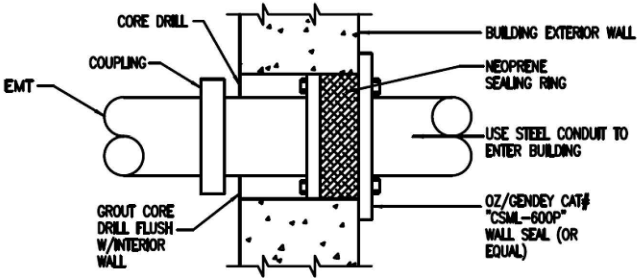


NOTES:

1. VOID IN EXCAVATED AREAS TO BE BACKFILLED WITH SELECT MATERIAL.
2. BOTTOM OF EXCAVATED PIT TO BE BACKFILLED WITH 6" OF GRAVEL (.75" GRADE).
3. SHORING WILL BE REQUIRED.
4. ALL HANDHOLES SHALL BE PLACED AT EXISTING GRADE
5. THIS HANDHOLE IS OF FIBERGLASS MATERIAL, APPROXIMATELY 343 POUNDS IN WEIGHT. THE LIDS ARE POLYMER CONCRETE MATERIAL, EACH APPROXIMATELY 206 POUNDS IN WEIGHT.

DETAIL "C"

CONDUIT SEAL



SIDE WALL DIMENSIONS

DESCRIPTION	PART NO.	WEIGHT	OVERALL DEPTH	INSIDE DEPTH	DESIGN/TEST LOAD#	ANSI TIER
OPEN BOTTOM	PG3048BA36	343	36"	33"	22,500 / 33,750	22



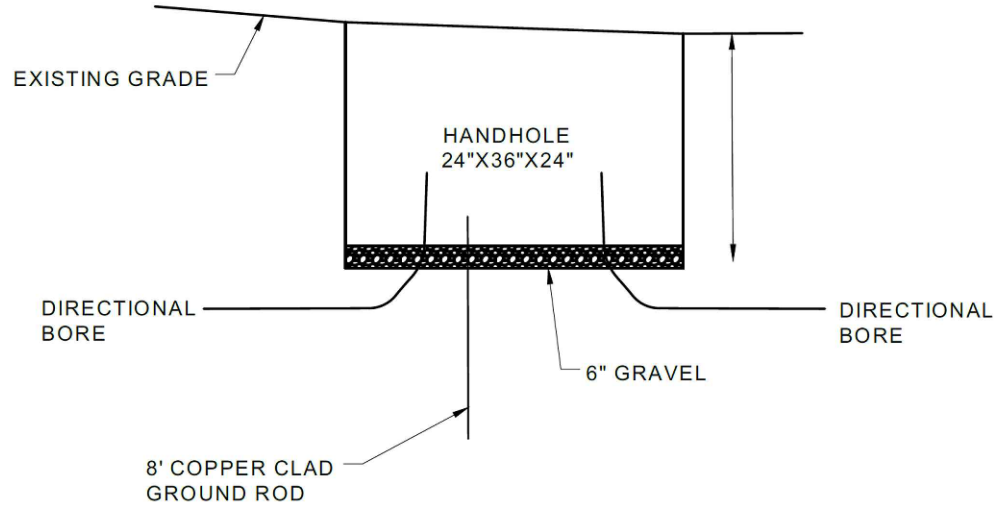
Know what's below.
Call before you dig.

3				AS-BUILT	
2				REVISION # 1	
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SHEET: 09 OF ##					

BURIED CABLE CONSTRUCTION DETAILS

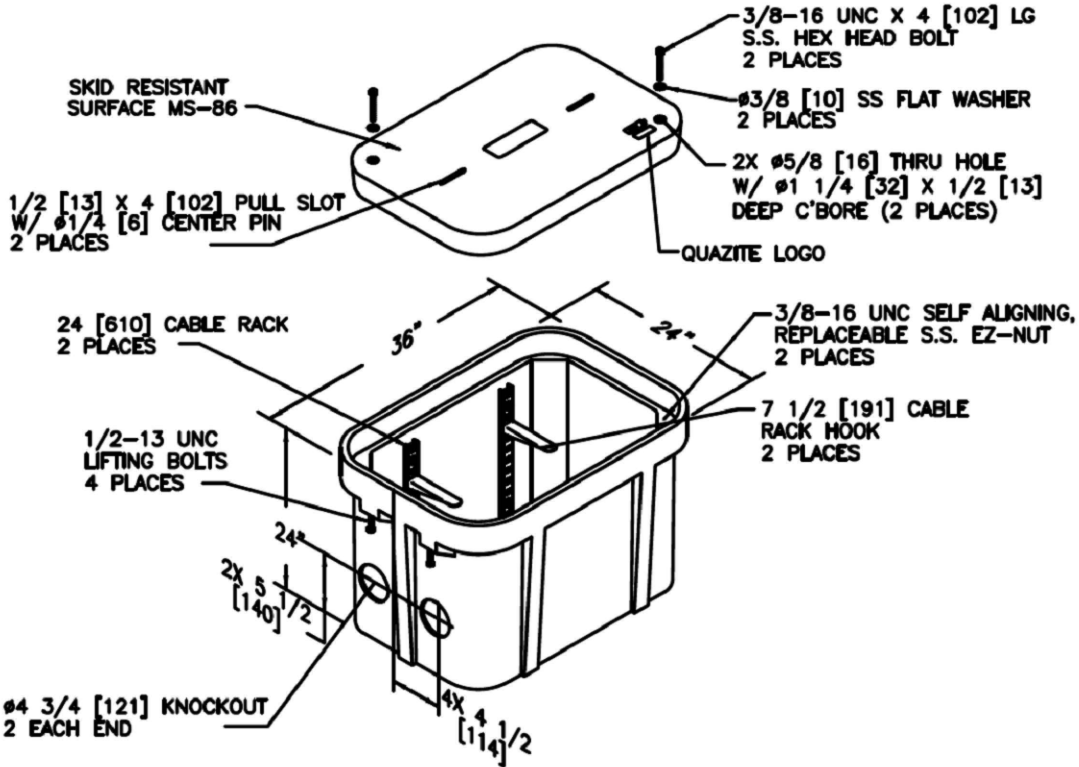
HANDHOLE SIZE 24"X36"X24"

DETAIL "B"
HANDHOLE CONSTRUCTION DETAIL
CONDUIT TO HANDHOLE PROFILE FOR R/W INSTALLATION



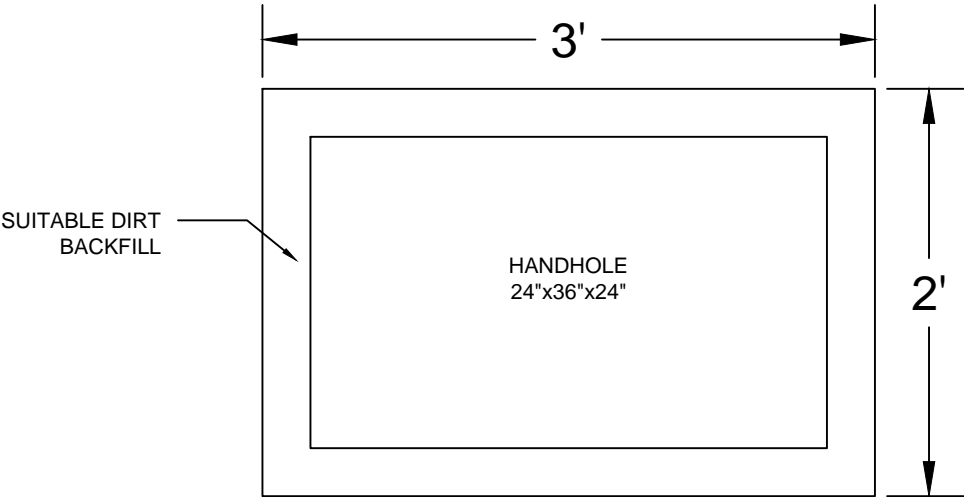
*ALL EXCAVATIONS OR TRENCHES (4) FOUR FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR ACCORDING TO THE PROCEDURES AND REQUIREMENTS SET FOURTH IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, 1926.651, AND 1926.652

DETAIL "A"
QUAZITE 24"x36"x24" BOX ASSEMBLY
W/(2) 24" CR, (2) 7 1/2" CR, HOOKS
& (4) Ø4 3/4 KNOCKOUT



- NOTES:**
1. VOID IN EXCAVATED AREAS TO BE BACKFILLED WITH SELECT MATERIAL.
 2. BOTTOM OF EXCAVATED PIT TO BE BACKFILLED WITH 6" OF GRAVEL (.75" GRADE).
 3. SHORING WILL BE REQUIRED.
 4. ALL HANDHOLES SHALL BE PLACED AT EXISTING GRADE

DETAIL "D"
HANDHOLE EXCAVATION



BULKU243624

**BULK VAULT HDPE STRUCTURAL FOAM
SHIELD X COMPOSITE COVER**

FEATURES:

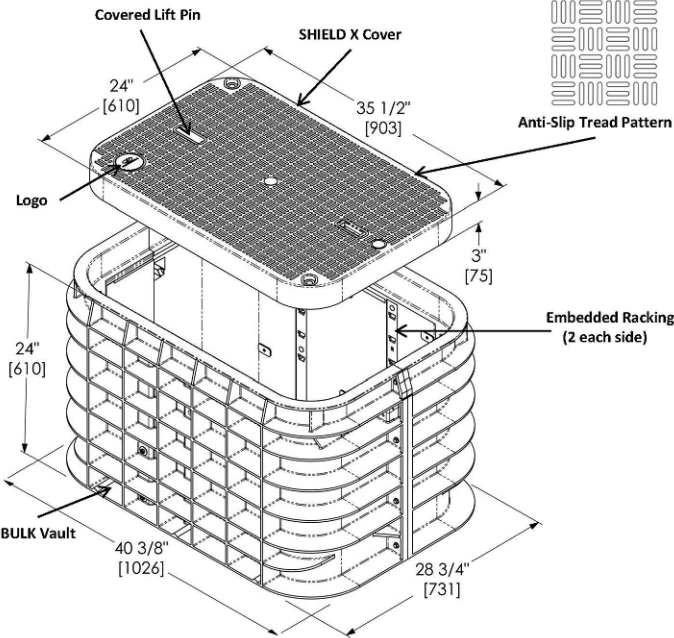
- 24" X 36" X 24" (open floor) (actual dimensions on drawing)
- BULK VAULT – SHIELD X COVER- Tier 22 Load Rated (ANSI/SCTE 77: 2013)
- (2) Cover locking Auger bolts, Hex (9/16") or Penta (7/8") head with washer
- (2) Non-Seizing Fastening System, Field Replaceable
- (4) Embedded Composite Rack Support
- (2) Lifting slot equipped with stainless steel pin (slot is approximately 2 3/4"x1/4")
- (2) Winterized Cable Drop slide (1 1/4" X 1 1/4")
- (1) Logo Disk

WEIGHT & SHIPPING:

- Cover Weight: 47 lbs
- Box Weight: 55 lbs
- Assembly Weight : 102 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)



Inside Dimensions		
Length	Width	Depth
34 3/8" [873]	22 3/4" [578]	21" [533]

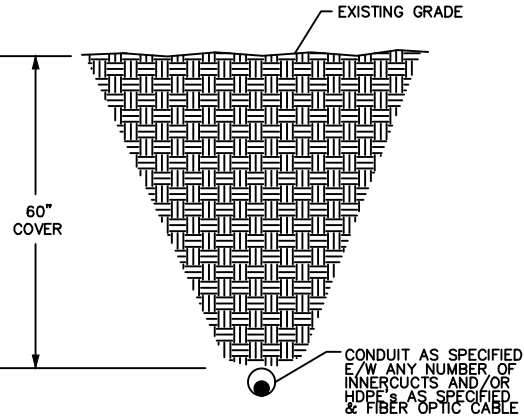


Know what's below.
Call before you dig.

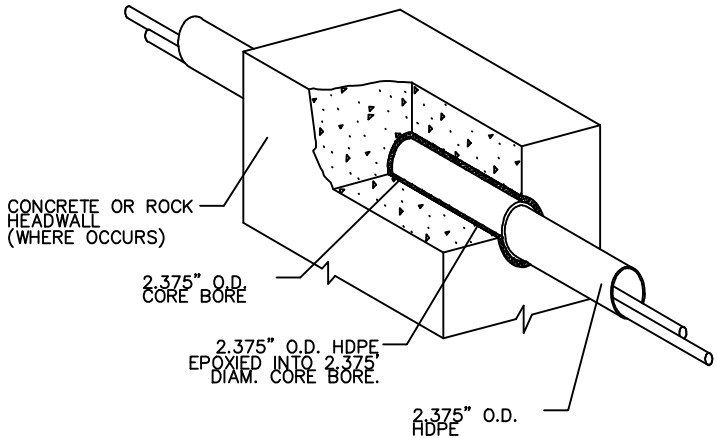
3				AS-BUILT
2				REVISION # 1
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PROJECT LOCATION:				
DRAWING NAME: CCR_PHASE_1-COLONIAL-LIFE-BLVD.DWG				
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BURIED CABLE CONSTRUCTION DETAILS (CONTINUED)

TYPICAL DETAIL "A"
DIRECTIONAL BORE CROSS SECTION
FOR CONDUIT

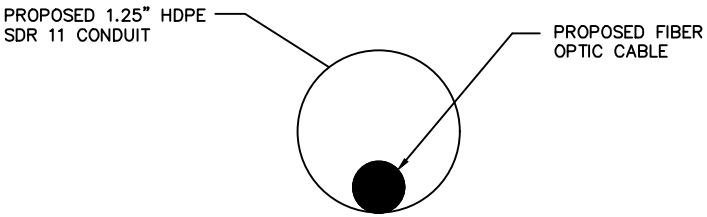


TYPICAL DETAIL "B"
2" CORE BORE

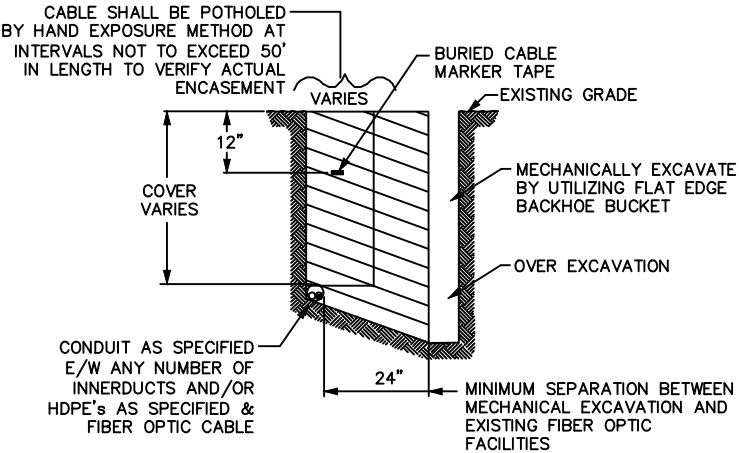


NOTE:
EPOXY GROUT IS USED AT BOTH ENDS OF
CORE BORE TO SEAL GAP BETWEEN
4" CONDUIT AND PVC SHEAVE

TYPICAL DETAIL "C"
CROSS SECTION OF PROPOSED HDPE

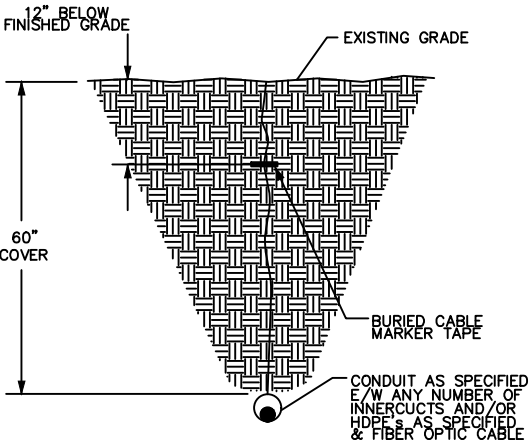


TYPICAL DETAIL "D"
EXPOSE DIRECT BURIED CABLE BY
POTHOLE/SIDE EXPOSURE METHOD



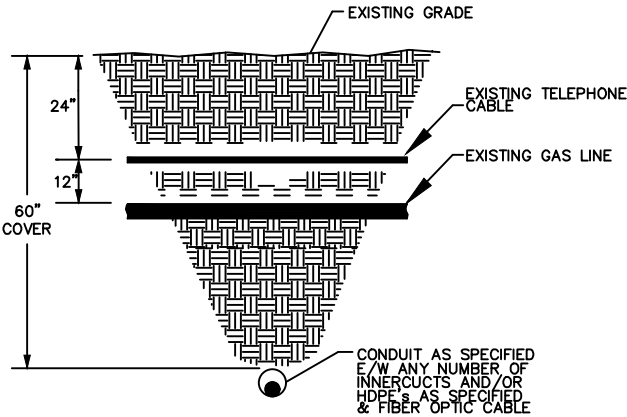
NOTE:
DETAIL SHALL ONLY APPLY FOR
THE EXPOSURE OF ALL BURIED CONDUIT,
WHICH SHALL INCLUDE HDPE

TYPICAL DETAIL "E"
PLACE HDPE



NOTE:
ALL HDPE USED FOR MCI CABLE
WILL BE TERRA-COTTA ORANGE
IN COLOR AND MANUFACTURED
IN ACCORDANCE WITH ASTM D-3035

TYPICAL DETAIL "F"
DIRECTIONAL BORE CROSS SECTION
FOR CONDUIT PLACED BENEATH / PERPENDICULAR
TO EXISTING UTILITIES

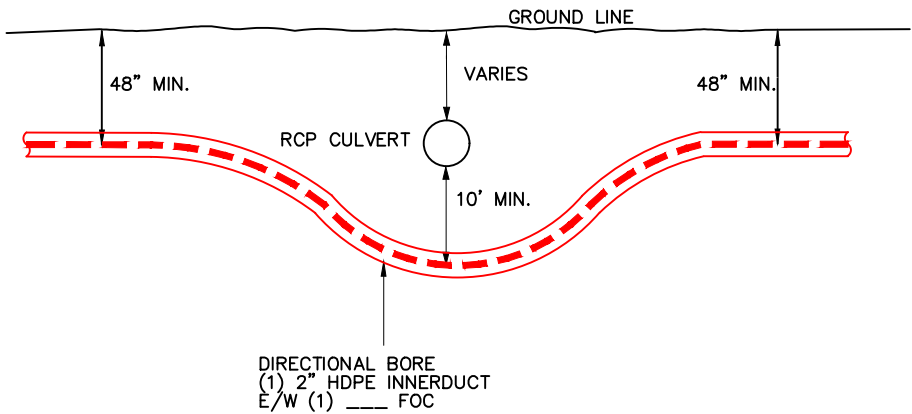


3				AS-BUILT
2				REVISION # 1
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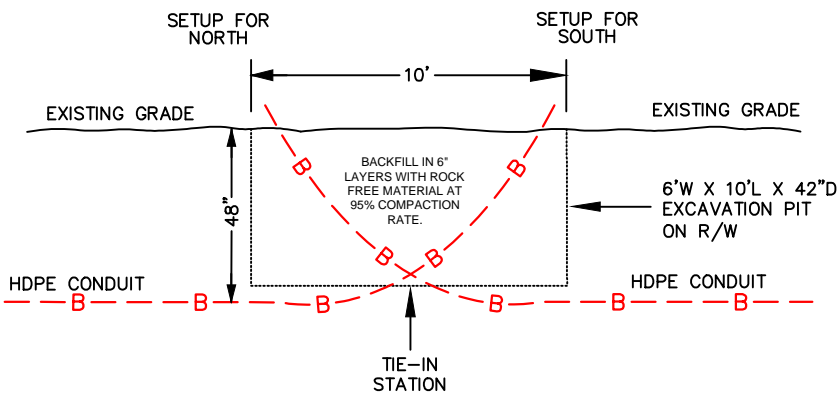


BURIED CABLE CONSTRUCTION DETAILS (CONTINUED)

TYPICAL DETAIL "G"
CULVERT CROSSING DETAIL



TYPICAL DETAIL "H"
PLOW & DIRECTIONAL BORE TIE-IN DETAIL



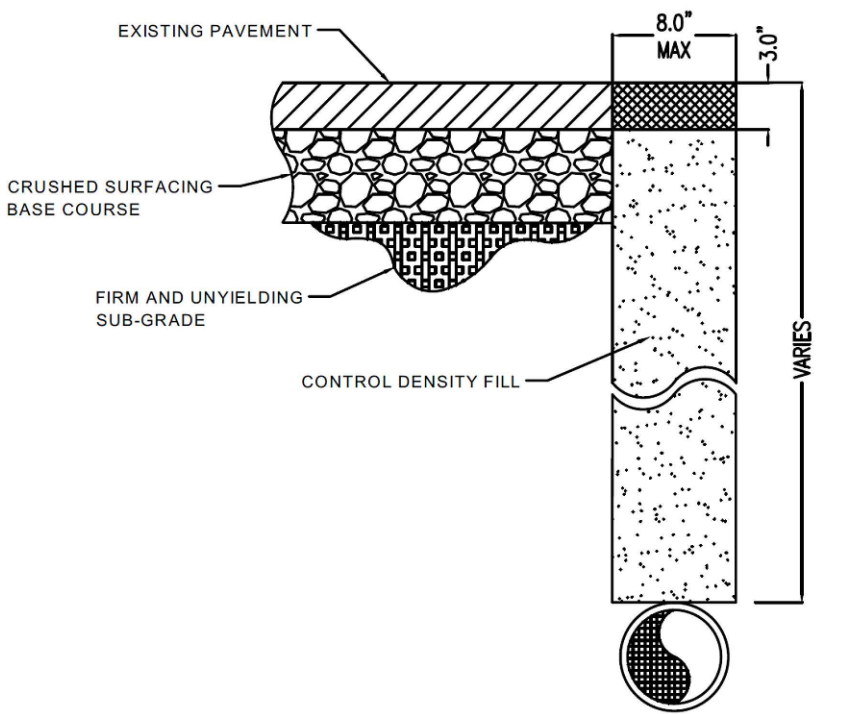
*BORE FROM EACH DIRECTION IS RUN AT DESIGN DEPTH TO SOME POINT PAST THE INTENDED TIE-IN, THEN TURNED UP TO DAYLIGHT.

*THE TIE-IN POINT IS EXCAVATED, PIPES CUT OFF WHERE THEY CROSS EACH OTHER AT DESIGN DEPTH, AND A COUPLER IS INSTALLED TO CONNECT THE TWO PIPES AT THE DESIGN DEPTH.

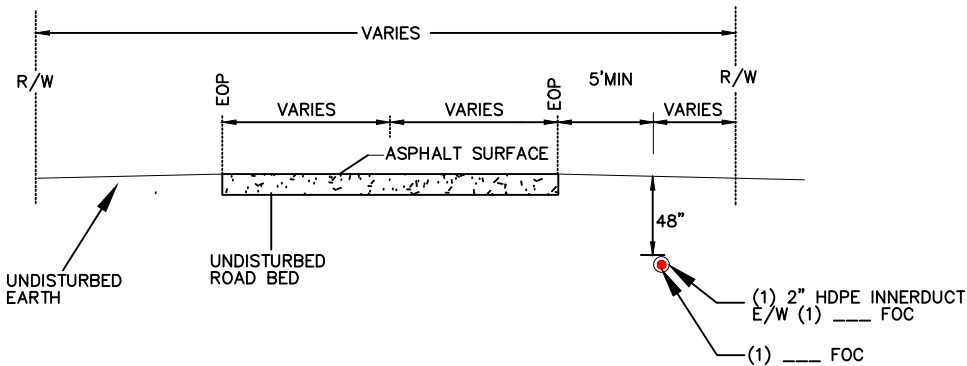
*USE DOUBLE "E" LOCK OR BETTER COUPLER TO CONNECT PIPE

*ALL EXCAVATIONS OR TRENCHES 4 FEET OR GREATER IN DEPTH SHALL BE APPROPRIATELY BENCHED, SHORED, OR SLOPED ACCORDING TO THE PROCEDURES AND REQUIREMENTS SET FORTH IN OSHA'S EXCAVATION STANDARD, 29 CFR 1926.650, .651, and .652.

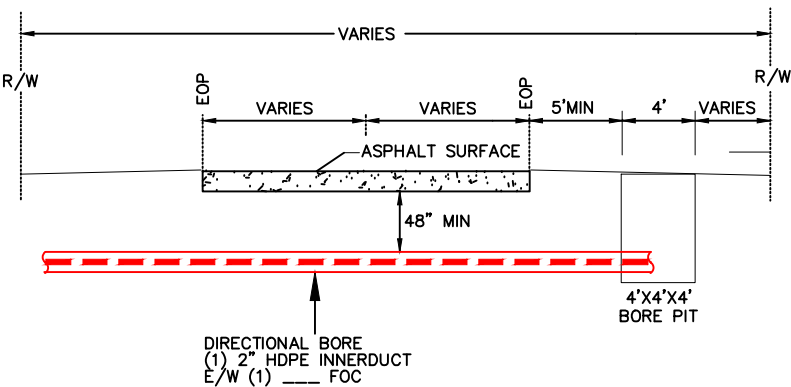
TYPICAL DETAIL "K"
8" POT HOLE DETAIL



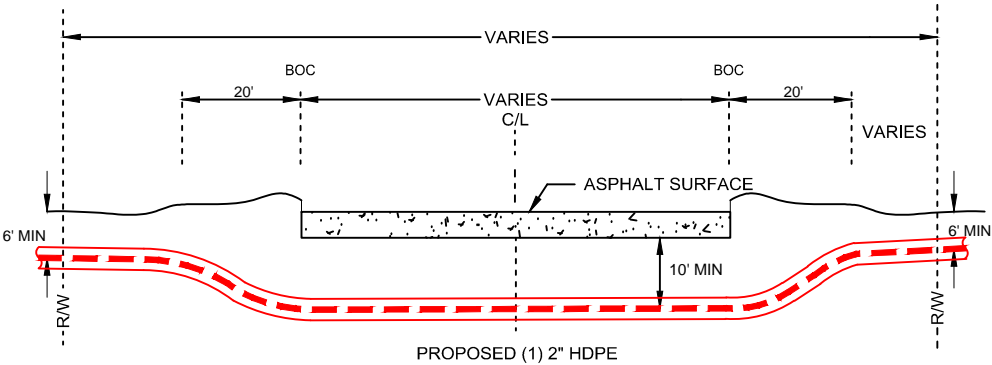
TYPICAL DETAIL "I"
PLOW & DIRECTIONAL BORE
PARALLEL CONDUIT DETAIL
FOR DOT RIGHT OF WAY



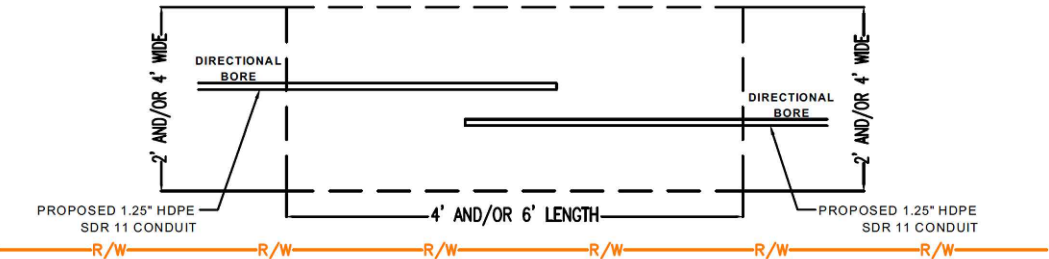
TYPICAL DETAIL "J"
DRIVEWAY CROSSING



TYPICAL DETAIL "L"
PRIMARY & SECONDARY
ROADWAY CROSSINGS



TYPICAL DETAIL "M"
STANDARD BORE PIT DETAIL
TOP VIEW



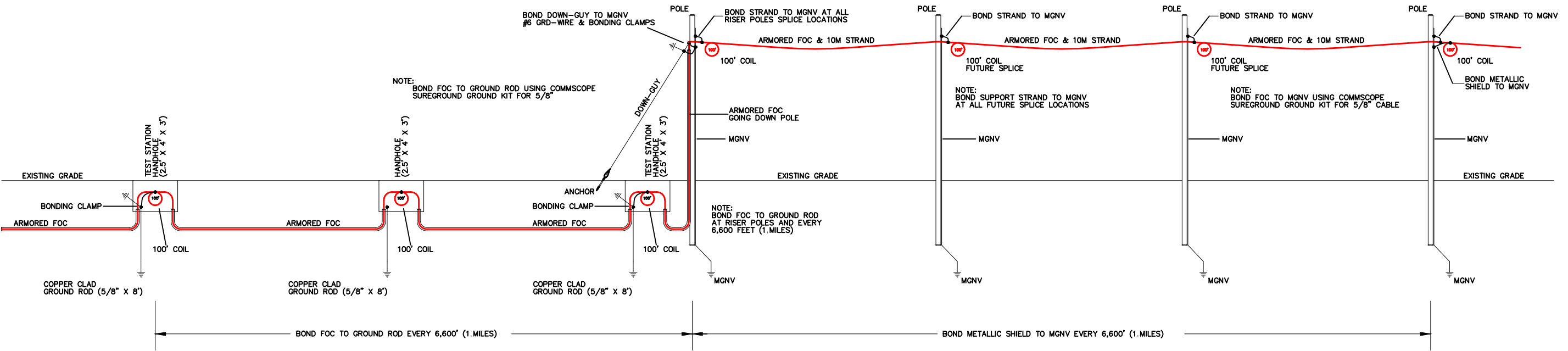
- NOTES:
1. ASPHALT SHALL BE CUT WITH A CORE DRILL
 2. POTHOLING SHALL BE PERFORMED WITH A DRY/FORCED AIR VAC MACHINE
 3. POT HOLE BACKFILL SHALL BE CONTROL DENSITY FILL
 4. POT HOLE SHALL BE FINISHED WITH 3" ASPHALT CONCRETE CL B COMPACTED DEPTH
 5. POT HOLE EDGE SHALL BE CLEANED AND TACKED WITH SEALER CSS1 AND SEALED WITH HOT MIX ASPHALT CEMENT AR4000W



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PROJECT MANAGER:				
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PROJECT NAME:				
PROJECT LOCATION:				
DRAWING NAME: CCR_PHASE_1-COLONIAL-LIFE-BLVD.DWG				
CONFIDENTIAL/PROPRIETARY				
SHEET: 12 OF ##				

BURIED CABLE CONSTRUCTION DETAILS (CONTINUED)

LAYOUT DETAIL



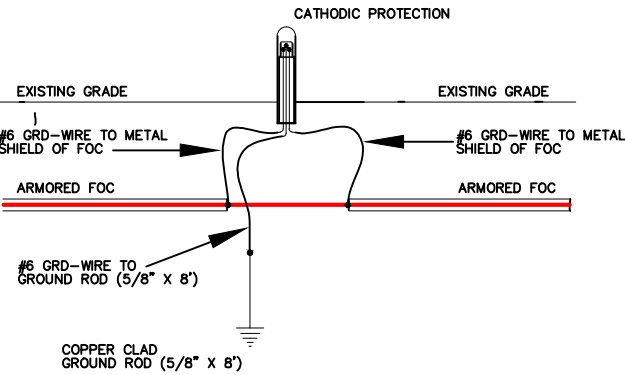
AERIAL NOTES:

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, finer loop (2,000') locations for future splice and 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).

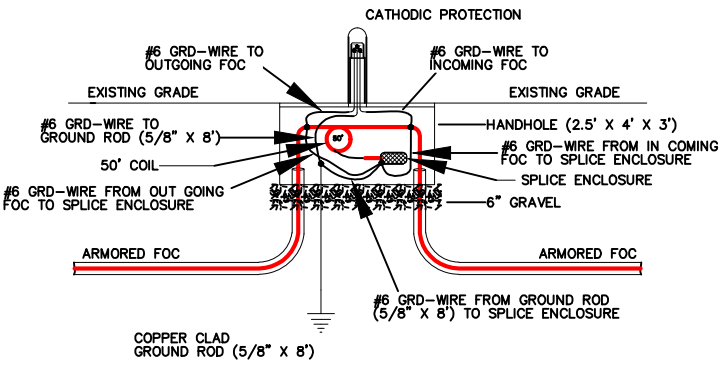
BURIED NOTES:

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 binds 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 (6,600 feet)

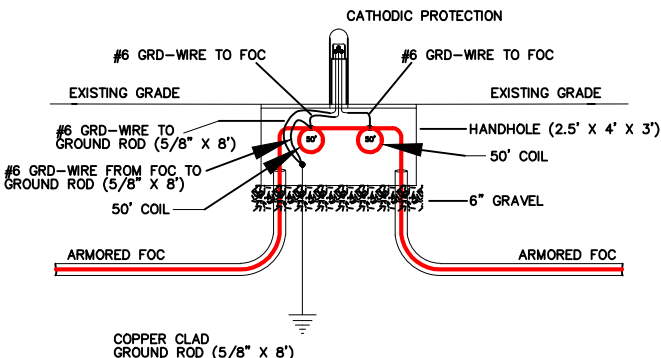
TEST STATION DETAIL SCHEMATIC



TEST STATION WITH FIELD SPICE



TEST STATION WITH COIL FOR FUTURE SPICE



3				AS-BUILT
2				REVISION # 1
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CONFIDENTIAL/PROPRIETARY				
SHEET: 13 OF ##				



RAKE SHEETS

MATERIAL TOTALS

12CT FOC PRE-TERM (500')	??
1-1/4" HDPE	??
2" FLEX	??
1" PVC	??
LOCATABLE TRACER WIRE	??
WALL MOUNT FDP	??

OSP 12CT. PRE-TERM (500') FOC	UNDERGROUND	??
OSP 12CT. PRE-TERM (500') FOC SLACK LOOP	UNDERGROUND	??
ISP 12CT. PRE-TERM (500') FOC	BUILDING	??
ISP 12CT. PRE-TERM (500') FOC SERVICE COIL	BUILDING	??
TOTAL:		??
JOB TOTAL (500') 24CT PRE-TERM FOC		??

TOTAL UNDERGROUND RAKE OFF			
UNIT CODES & DESCRIPTION	Units	Estimated Quantity	Actual Quantity
200-1 - DIRECTIONAL BORE (1) 1.25" HDPE SDR11	FOOT	0	0
201-1 - EXPOSE PIPE/DUCT AND/OR CABLE UP TO 48" DEPTH	EACH	0	0
301-11 - LOCATABLE TRACER WIRE	FOOT	0	0
24"x36"x24" HANDHOLE	EACH	0	0
30x48"x36" HANDHOLE	EACH	0	0

TOTAL AERIAL RAKE OFF			
UNIT CODES & DESCRIPTION	Units	Estimated Quantity	Actual Quantity
???	FOOT	0	0
???	EACH	0	0
???	FOOT	0	0
???	EACH	0	0
???	EACH	0	0

TOTAL INSIDE PLANT (ISP) RAKE OFF			
UNIT CODES & DESCRIPTION	Units	Estimated Quantity	Actual Quantity
301-2 - CABLE PLACEMENT IN CONDUIT - ISP (1) (250') 12CT PRE-TERM TAIL WITH FDP	FOOT	0	0
301-3 - PLACEMENT OF (1) 2" FLEX - ISP	FOOT	0	0
301-4 - PLACEMENT OF (1) 1" PVC - ISP	FOOT	0	0
???	EACH	0	0
???	EACH	0	0

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