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**BOHLER ENGINEERING PLLC**  
 STATE CIVIL AND CONSTRUCTION ENGINEERING ARCHITECTURAL FIRM  
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**REVISIONS**

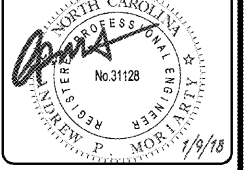
REV	DATE	COMMENT	BY
1	10/11/17	PER CITY OF CLT & NCDOT COMMENTS	SRF
2	11/20/17	PER CITY OF CLT & NCDOT COMMENTS	SRF
3	1/9/18	PER MECKLENBURG COUNTY COMMENTS	SRF

**811**  
 KNOW WHAT'S BELOW  
 ALWAYS CALL 811  
 BEFORE YOU DIG  
 It's fast. It's free. It's the law.

PROJECT No.: NCC162120  
 DRAWN BY: SRF/AJS  
 CHECKED BY: BWR  
 DATE: 8/5/17  
 SCALE: 1"=60'  
 CAD I.D.: UPD

**CONNECTION POINT**  
 FOR  
**EASTSIDE CONNECTIONS JV, LLC**  
 LOCATION OF SITE  
 MONROE RD & LONG AVE  
 CHARLOTTE, NC 28212  
 MECKLENBURG COUNTY

**BOHLER ENGINEERING PLLC**  
 1927 S. TRYON STREET, SUITE 310  
 CHARLOTTE, NC 28203  
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 NC@BohlerEng.com



SHEET TITLE:  
**OVERALL UTILITY PLAN**  
 SHEET NUMBER:  
**C-7.0**

**NOTE:**

1. REFER TO APPROVED CLT/WATER PLANS 100-17-075 FOR ADDITIONAL INFORMATION.

**PARCEL 1 NOTES:**

- MINIMUM PIPE COVERS ARE TO BE MET ON ALL UTILITY PIPES
- MANHOLE COVERS & CLEANOUTS SHALL NOT BE LOCATED WITHIN PEDESTRIAN AREAS OR IN FRONT OF THE BUILDING CANOPY
- CLEANOUTS FOR THE SANITARY SEWER LATERALS ARE TO BE PLACED AT A MAXIMUM SEPARATION OF EVERY NINETY (90) FEET
- MINIMUM PIPE DIAMETER SHALL BE SIX (6) INCHES FOR LATERALS AND (8) INCHES FOR MAIN LINES BETWEEN MANHOLES WITH A MATERIAL OF POLY VINYL CHLORIDE (PVC) SDR 35 PER ASTM D 3034
- VALVE COVERS, METER BOX COVERS AND OTHER SURFACE ACCESS POINTS SHALL NOT BE LOCATED WITHIN PEDESTRIAN AREAS OR IN FRONT OF THE BUILDING CANOPY. VALVES AND METER BOXES SHALL BE LOCATED IN AREAS THAT WILL REMAIN ACCESSIBLE AND NOT BLOCKED BY PARKED VEHICLES.
- 45° DEGREE BENDS SHALL BE USED IN PLACE OF 90° BENDS WHEREVER POSSIBLE.
- FIRE PROTECTION SHALL REQUIRE A MINIMUM SIZE OF 6 INCHES IN DIAMETER WITH A MATERIAL OF DUCTILE IRON PIPE OR PVC ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- DOMESTIC SERVICE SHALL REQUIRE A MINIMUM SIZE OF 1-1/2 INCHES IN DIAMETER WITH A MATERIAL OF TYPE "K" COPPER.

**SANITARY PIPE SCHEDULE**

TO	TO INV	FROM	FROM INV	PIPE LENGTH	SLOPE (%)	DIAMETER (IN)	MATERIAL
EXMH1	750.18'	MH1	750.82'	32.57'	2.00%	6"	SDR-35
MH1	750.82'	MH2	752.50'	111.97'	1.50%	6"	SDR-35
MH2	745.00'	MH4	745.90'	48.84'	1.94%	6"	SDR-35

**SANITARY STRUCTURE SCHEDULE**

NAME	TYPE	RIM ELEV. (FT.)	INVERTS
EXMH1	EXISTING MANHOLE	751.83'	INV IN = 750.18' (8") INV IN = 728.00' (8") INV OUT = 737.60' (8")
EXMH2	EXISTING MANHOLE	745.84'	INV IN = 742.01' (8") INV IN = 742.71' (8") INV OUT = 740.60' (8")
MH1	PROP. 48" MANHOLE	753.28'	INV IN = 750.82' (8") INV OUT = 750.82' (8")
MH2	PROP. 48" MANHOLE	753.82'	INV OUT = 752.50' (8")
MH3	PROP. 48" MANHOLE	750.45'	INV IN = 745.00' (8") INV IN = 745.00' (8") INV OUT = 745.00' (8")

**PROPOSED EASEMENT LEGEND \***

(Symbol)	SIGHT DISTANCE
(Symbol)	STORM DRAIN
(Symbol)	SANITARY SEWER
(Symbol)	WATER
(Symbol)	PUBLIC ACCESS
(Symbol)	COMMON SHARED
(Symbol)	INGRESS-EGRESS
(Symbol)	PUBLIC UTILITY
(Symbol)	VARIABLE WIDTH S

\* DIM IS THE TOTAL WIDTH OF THE EASEMENT

