# 1. THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OR THE PROGRESSION OF ANY WORK SPECIFIED IN THESE PLANS, THE CONTRACTOR SHALL PROVIDED TO THE IMMEDIATELY AND PRIOR TO ANY FURTHER WORK ACTIVITY. 2. THE CONTRACTOR IS RESPONSIBLE TO VISIT JOB SITE TO DETERMINE FIELD CONDITIONS WHICH MAY DICTATE THE USE OF SPECIFIC EQUIPMENT NEEDED TO COMPLETE THE CONSTRUCTION SHOWN HEREIN. THE CONTRACTOR SHALL INCLUDE ALL COSTS FOR ANY SPECIALIZED EQUIPMENT IN THE BID. 3. IN ORDER TO MINIMIZE IMPACT TO LANDSCAPING MATERIAL, THE CONTRACTOR SHALL EXERCISE CAUTION THROUGH LANDSCAPING LIMITS DURING ALL PHASES OF CONSTRUCTION ACTIVITY. ANY LANDSCAPE MATERIAL DAMAGED DURING THE CONSTRUCTION PROCESS SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

**GENERAL NOTES** 

- 4. THE CONTRACTOR SHALL EXERCISE ALL APPROPRIATE SAFETY MEASURES WHEN WORKING IN OR AROUND AREAS OF OVERHEAD ELECTRICAL/TRANSMISSION LINES OR UNDERGROUND UTILITIES. HAND DIGGING SHALL BE USED AROUND ALL KNOWN AND LOCATED UTILITIES.
- 5. THE WORK CORRIDOR SHALL BE RESTORED TO PRE-WORK CONDITIONS. 6. ALL CONCRETE GUTTERS SHALL BE MAINTAINED OR RESTORED TO PRE-WORK CONDITIONS.
- 7. CONTRACTOR SHALL MAKE SURE THAT ALL NECESSARY PROTECTIVE MEASURES ARE TAKEN TO SAFEGUARD EXISTING UTILITIES DURING FIBER/EQUIPMENT INSTALLATIONS.
- 8. ALL ELECTRICAL EQUIPMENT SHALL BE WEATHERPROOF.

9. THE LOCATION OF THE CONDUCTORS, CONDUITS, JUNCTION BOXES, SERVICE POINTS, AND CONTROLLER BOXES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS. CONDUIT SHALL BE PLACED WITHIN EXISTING RIGHT-OF-WAY.

10. THE CONTRACTOR SHALL AVOID AND/OR PROTECT ALL TREES AND ROOTS BY HAND DIGGING AS NECESSARY.

- 11. VEGETATION SHALL BE REMOVED OR CUT BACK AS DIRECTED BY THE CONSTRUCTION ENGINEER. VEGETATION REMOVAL AND TRIMMING SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE OF THE CAMERA POLE.
- 12. PLACE FIBER OPTIC CURB MARKERS AWAY FROM CURB RETURNS.
- 13. THE CONTRACTOR SHALL USE DISCRETION IN DETERMINING ACTUAL BORE PIT LOCATIONS. BORE PIT LOCATIONS MAY BE ADJUSTED DEPENDING ON CONTRACTOR'S ABILITY TO LENGTHEN BORE DISTANCES BETWEEN BORE PITS. UNDER NO CIRCUMSTANCES SHALL CONTRACTOR
- 14. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRIC SAFETY CODE, AND THE NORTH CAROLINA D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER N.E.C. REQUIREMENTS.
- 15. PULLING INSTRUCTIONS FOR POWER CONDUCTORS; CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET AND MEET MANUFACTURES REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURERS REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY N.E.C. OR N.E.S.C. FOR CABLE USED.
- 16. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL OF THE EQUIPMENT SPECIFICATIONS OR DESIGN AND SHOP DRAWINGS, INCLUDING PLAN OF ATTACHMENTS FOR ALL MATERIAL PROPOSED FOR THIS PROJECT NOT DETAILED IN THE PLANS. SUBMITTED PLAN SHALL BE SIGNED AND SEALED AT ENGINEER'S
- 17. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF CITY-OWNED AND NCDOT-OWNED R/W IN A REGULATORY FLOOD ZONE AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND PER LOCAL CODE. THE COST OF THE MATERIAL DISPOSAL SHALL BE INCIDENTAL TO THE EQUIPMENT INSTALLATION.
- 18. AT LOCATIONS NEAR REINFORCED EARTH WALLS AND EXISTING BARRIER WALLS, THE CONTRACTOR IS TO ASSURE THAT THE WALL IS NOT UNDERMINED DURING FOUNDATION EXCAVATION AND INSTALLATION. METHODS USED TO SHORE UP WALLS SHALL BE APPROVED BY THE ENGINEER. THE COST SHALL BE INCIDENTAL TO THE UNDERGROUND CONDUIT INSTALLATION.
- 19. CONTRACTOR SHALL INSTALL HANDHOLES BEHIND SIDEWALK IF AVAILABLE R/W AS FIRST OPTION, IN PLANTING STRIP AS SECOND OPTION, AND'IN SIDEWALK AS THIRD OPTION.
- 20. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF NORFOLK SOUTHERN'S NSCE-8 SPECIFICATIONS.
- 21. PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES.
- 22. BLASTING NOT PERMITTED.
- 23. CCTV POLE LOCATIONS MUST BE APPROVED BY CDOT PRIOR TO CONSTRUCTION.
- 24. RETURN OLD CCTV AND EQUIPMENT TO CDOT ELECTRONICS LAB. CONTACT AT 704-336-3919 TO ARRANGE DELIVERY.

# TRAFFIC CONTROL:

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

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

UTILITIES:

UTILITIES ARE ILLUSTRATED FOR INFORMATION PURPOSES ONLY. THE CITY WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF UTILITY LOCATIONS, SIZES, DEPTHS, OR FOR COMPLETENESS OF UTILITY INFORMATION. INFORMATION.
PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY AND MEET WITH ALL UTILITY OWNERS, THE CITY UTILITY COORDINATOR AND CITY INSPECTOR WHOSE FACILITIES WILL BE AFFECTED TO DETERMINE UTILITY LOCATIONS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY HIS OPERATIONS OR THOSE OF HIS AGENTS. THE CONTRACTOR SHALL HOLD THE CITY HARMLESS FOR ANY THIRD—PARTY INCONVENIENCE CREATED BY WORK OF HIS OWN FORCES OR THAT OF HIS AGENTS. ANY DAMAGES INCURRED SHALL BE THE CONTRACTORS FINANCIAL RESPONSIBILITY.

**GENERAL NOTES** 

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

DRAINAGE STRUCTURES:

GRADES, ELEVATIONS AND LOCATIONS SHOWN ARE APPROXIMATE.

DRIVEWAYS AND SIDEWALKS:

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

- CONCRETE- SIX INCH PORTLAND CEMENT CONCRETE (3600 PSI). • ASPHALT — (COMMERCIAL) TWO INCH SF9.5B COURSE AND FOUR INCH 119.0B INTERMEDIATE COURSE. (RESIDENTIAL) TWO INCH SF9.5B COURSE AND FOUR INCH AGGREGATE BASE COURSE. • GRAVEL - SIX INCH INCIDENTAL STONE
- SIDEWALK SHALL BE FOUR INCHES THICK, AND SIX INCHES THICK AT DRIVEWAY CROSSINGS, PER CITY STD. NO. 10.22
- CROSS SLOPES ON SIDEWALKS SHALL NOT EXCEED 2.0%
- RUNNING SLOPES ALONG SIDEWALKS SHALL NOT EXCEED 5.0%, OR THE ADJACENT ROADWAY SLOPE AS MEASURED AT THE GUTTER PAN,

A TURNING SPACE (LANDING) SHALL BE PROVIDED AT ALL LOCATIONS WHERE A PEDESTRIAN MIGHT TURN TO CHANGE DIRECTION OF TRAVEL. THE LANDING SHALL BE A MINIMUM OF 4 FEET BY 4 FEET, UNLESS NOTED BY THE ENGINEER. TYPICALLY LANDING DIMENSIONS WILL MATCH SIDEWALK WIDTH. THE LANDING ALSO SHALL NOT EXCEED 2.0% SLOPE MEASURED PERPENDICULAR TO THE ROADWAY. THE LANDING ALSO SHALL NOT EXCEED 2.0% OF ADJACENT ROADWAY SLOPE, WHICHEVER IS GREATER, MEASURED PARALLEL TO THE ROADWAY.

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

## SUBSURFACE PLANS:

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

## TREES, SHRUBS, AND HEDGES:

- 1. THE CONTRACTOR SHALL ALSO PROTECT TREES AND SHRUBS OUTSIDE OF CUT/FILL LINES, IN ADDITION TO THOSE THAT RECEIVE TREES/SHRUB PROTECTION BARRIERS. WHEN ROOT PRUNING IS NECESSARY, CUT ROOTS CLEANLY USING A DISC TRENCHER IN ACCORDANCE WITH SECTION 01000 OF THE CITY OF CHARLOTTE LANDSCAPE CONSTRUCTION STANDARDS. PRUNING SHALL BE PER THE LATEST STANDARD OF THE LANDSCAPE CONSTRUCTION STANDARDS MANUAL. TREES SPECIFIED BY THE PLANS TO HAVE PROTECTION SHALL BE IN ACCORDANCE WITH CLD STD. 40.02. WHEN THE TREE IS CLOSE TO THE WORK AREA TREE PROTECTION CLD STD. 40.12 SHALL BE USED.
- 2. IN ORDER TO MINIMIZE IMPACT TO LANDSCAPING MATERIAL, EXERCISE CAUTION THROUGH LANDSCAPING LIMITS DURING ALL PHASES OF CONSTRUCTION ACTIVITY. THE CONTRACTOR IS REQUIRED TO INSTALL TEMPORARY 4' HIGH ORANGE PLASTIC BARRIER FENCING PRIOR TO WORKINGS AROUND AREAS OF LANDSCAPING. THE FENCE CAN BE MOVED AS THE WORK PROGRESSES. COST OF THE TEMPORARY FENCE IS INCIDENTAL TO INSTALLATION OF CCTV POLES. REPAIR / REPLACE ANY DAMAGED LANDSCAPING AND PLANT BEDS CAUSED BY CONSTRUCTION

## PLANS:

- AERIAL PHOTOGRAPHY IN THESE PLANS MAY NOT REPRESENT CURRENT CONDITIONS. THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS PRIOR TO BIDDING / CONSTRUCTION.
- 2. THE BASE MAPPING DEPICTED ON ALL LAYOUT SHEETS WAS OBTAINED FROM EXISTING PLANS PROVIDED BY CDOT AND AERIAL PHOTOGRAPHY. THEREFORE, THE ACCURACY OF THE BASE MAPPING IS NOT THAT OF SURVEYED MAPPING TYPICALLY USED WITH ROADWAY DESIGN PROJECTS AND SHOULD ONLY BE RELIED UPON FOR ESTABLISHING GENERAL LOCATIONS FOR EXISTING AND PROPOSED FEATURES.
- 3. BASELINES SHOWN ON THE PLANS ARE FOR INFORMATION PURPOSES ONLY AND ARE NOT STAKED IN THE FIELD.
- 4. THE RIGHT OF WAY DESIGNATIONS SHOWN ON THE PLANS ARE NOT TIED TO A SURVEYED CENTERLINE AND AS SUCH ARE APPROXIMATE.

5. CABINETS AND PULL BOXES ARE DIMENSIONED TO THE CENTER. THE LOCATION OF ALL PROPOSED EQUIPMENT TO BE INSTALLED SHALL BE CONSIDERED TO BE APPROXIMATE AND ADJUSTMENTS MAY BECOME NECESSARY. VARIATIONS FROM THE PROPOSED LOCATIONS MUST BE VERIFIED WITH THE ENGINEER. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO CONSTRUCTION. THE COST FOR STAKING THE POLE LOCATIONS SHALL BE PAID FOR AS PART OF THE POLE INSTALLATION. EROSION CONTROL

THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL DEVICES IN ACCORDANCE WITH THE APPROPRIATE CITY AND STATE EROSION AND SEDIMENT CONTROL ORDINANCES. THE CONTRACTOR SHALL PREVENT STANDING WATER DUE TO CONSTRUCTION. DISTURBED AREAS SHALL BE SEEDED AND MULCHED AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR SHALL FOLLOW APPLICABLE EROSION CONTROL MEASURES SHOWN IN THE 2018 OR CURRENT EDITION OF NCDOT STANDARD SPECIFICATIONS.

**GENERAL NOTES** 

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

## PAVEMENT DEGRADATION FEE:

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

# CONDUIT:

1. THE FIBER OPTIC CONDUIT NETWORK SHALL BE MAINTAINED AT A CONSTANT HORIZONTAL AND VERTICAL LOCATION.

2. CONDUIT RUN SHALL NOT EXCEED 270 DEGREES OF BENDS BETWEEN

3. MINIMUM REQUIRED CONDUIT BURY DEPTHS SHALL BE MAINTAINED WHERE CONFLICTS OCCUR WITH DRAINAGE OR OTHER UTILITIES PER THESE

4. ALL NEW UNDERGROUND CONDUIT SHALL BE SEALED AT BOTH ENDS TO PREVENT THE ENTRY OF DUST, DIRT OR MOISTURE.

5. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CANNOT BE BACKFILLED IN THE SAME DAY/NIGHT OPERATION.

6. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY DIRECTIONAL BORE OR TRENCHING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS. THE CONTRACTOR SHALL HAND DIG THE FIRST 4' TO VERIFY POSSIBLE UTILITY CONFLICT.

7. THE PLANS SHOW THE GENERAL ROUTE AND LOCATION OF CONDUIT AND EQUIPMENT RELATIVE TO MAJOR PHYSICAL FEATURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL ABOVEGROUND AND UNDERGROUND CONFLICTS IN ADVANCE OF THE PLACEMENT OF ANY CONDUIT OR OTHER FACILITIES. THE CONTRACTOR SHALL FIELD MARK THE PROPOSED ALIGNMENT FOR REVIEW AND CONCURRENCE BY THE ENGINEER PRIOR TO TRENCHING AND/OR PLACEMENT. NO PULL BOXES OR SPLICE VAULTS SHALL BE LOCATED IN DRAINAGE SWALES, DITCHES OR PAVED

## EXISTING SANITARY SEWER AND WATER LINE:

THE CONTRACTOR SHALL USE CARE WHEN WORKING AROUND SANITARY SEWERS AND WATER LINES. SHOULD THE CONTRACTOR DAMAGE EXISTING SEWER OR WATER LINES, HE SHALL IMMEDIATELY REPLACE THE LINE AT HIS EXPENSE WITH DUCTILE IRON PIPE. THE CONTRACTOR SHALL REPLACE SANITARY SEWER AND/OR WATER LINE, WITH A MINIMUM TEN FOOT SECTION OF DUCTILE IRON PIPE WHEN DRAINAGE PIPE COMES WITHIN TWO FEET OF SAID LINES, VERTICALLY OR HORIZONTALLY.

## CAMERA:

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

UNDER NO CIRCUMSTANCES SHALL ENERGIZED CABLE BE PLACED IN THE SAME\_CONDUIT AS FIBER OPTIC CABLE UNLESS OTHERWISE APPROVED BY

## **STANDARDS**

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

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

STD. NO.:	TITLE:
	CONCRETE SIDEWALK
1716.01	JUNCTION BOXES
1720.01	POLES
1721.01	GUY ASSEMBLIES
1730.01	FIBER-OPTIC CABLE SLACK

## CHARLOTTE LAND DEVELOPMENT STANDARD:

STD. NO.:	TITLE:	
30.06A	TEMPORARY	SILT FENCE
30.17A	SEEDING SCH	HEDULE
30.17B	SEEDING SCH	HEDULE

## CHARLOTTE LAND DEVELOPMENT STANDARD:

ABAND..

ASPH...

**ABBREVIATIONS** 

ABANDONED

ASPHALT

	APPROXIMATELY
3/C	
3IT	
3M	
3RG	
CB	
C&G	
CL	
FENCE	
CMP	
CONC CONST	
DI	
DIA	
OW	
DIM	
ΞΑ	
ELEV	
EOP	
ESMT	EASEMENT
EXIST	
=/C	FACE OF CURB
ÉS	
FH	FIRE HYDRANT
FOC	
GV	
HORIZ	
NT	
NV	
P	
 _F	
_T	
b	
_P	
MIN	
MONO	
mph	MILES PER HOUR
MTL	
V	NORTH/NORTHING
NTS	NOT TO SCALE
O/H	OVER HEAD
	ON CENTER
	PAVEMENT
PC	POINT OF CURVATURE
PERM PG	PERMANENI
⊃[	PAGE
PK	PUINT OF INT
PP	POWER POLE
PROP	PROPOSED
PSE	PERM SW ESMT
PT	POINT OF TANGENCY
⊃∨	POINT OF VERT INT
PUE	PERM UTILITY ESMT
-	RADIUS
RT	RIGHT
RCP	REINFORCED CONC PIPE
R/W	RIGHT OF WAY
SSD	SOUTH
SF	STORM DRAIN
SS	SQUARE FOOT SANITARY SEWER
STA	STATION
STD	STANDARD
SW	SIDEWALK
TAN	TANGENT
TCE	TEMP CONST ESMT
TEMP	TEMPORARY
	TRAVERSE POINT
T/W	
TYP	TYPICAL
	UNDER GROUND
J/G	VERTICAL CURVE
VC	VEDTICAL
VĆ VERT	VERTICAL
VC VERT W/	WITH
VC VERT W/ WM	WITH WATER METER W
VC VERT W/ WM	WITH WATER METER W WATER VALVE
VC VERT W/ WM WV	WITH WATER METER W WATER VALVE SIXTY PENNY NAIL SET
VC VERT W/ WM	WITH WATER METER W WATER VALVE



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ROJECT REFERENCE N

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