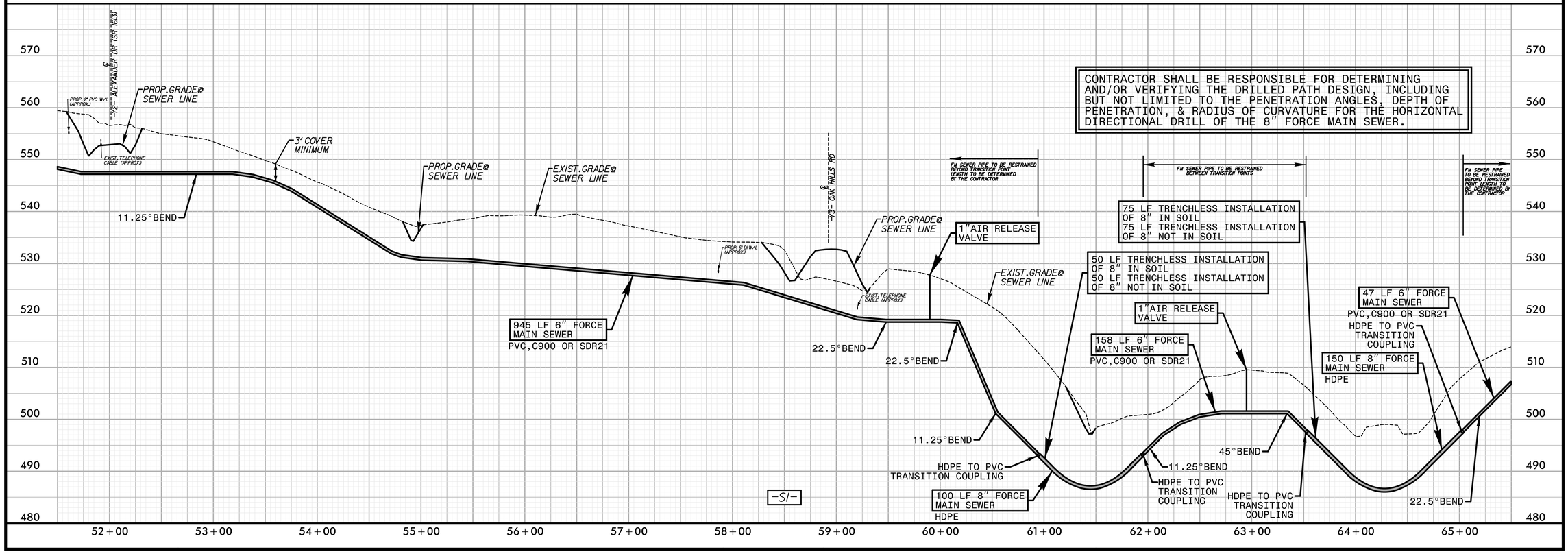
HINDE ENGINEERING
License No. C-2639
7520 E. Independence Blvd., Suite 230 Charlotte, NC 28227

PROJECT REFERENCE NO.	SHEET NO.
R-0623	UC-29
DESIGNED BY: CLS	
DRAWN BY: JNA	
CHECKED BY: CLS	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4151	UTILITY CONSTRUCTION PLANS ONLY

DocuSigned by: Clint L. Stevens 9/26/14
9DBF22D777EB42D...
NORTH CAROLINA PROFESSIONAL SEAL 040370 ENGINEER CLINT L. STEVENS

CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND/OR VERIFYING THE DRILLED PATH DESIGN, INCLUDING BUT NOT LIMITED TO THE PENETRATION ANGLES, DEPTH OF PENETRATION, & RADIUS OF CURVATURE FOR THE HORIZONTAL DIRECTIONAL DRILL OF THE 8" FORCE MAIN SEWER.

6"VALVE
PROP. 42" RCP (APPROX.)
PROP. TELE. F.O. CABLES (APPROX.)
PROP. 6" D.I.W.L. (APPROX.)
1"AIR RELEASE VALVE
EXIST. GRADE @ SEWER LINE
F.M. SEWER PIPE TO BE RESTRAINED BEYOND TRANSITION POINT LENGTH TO BE DETERMINED BY THE CONTRACTOR
6"X6"X6" TEE -S2- CONNECTION
372 LF 6" FORCE MAIN SEWER DIP, PC 350
DI SEWER PIPE FROM -S1- STA 37+50 TO 41+22
HDPE TO DIP TRANSITION COUPLING
100 LF 8" FORCE MAIN SEWER HDPE
PROP. GRADE @ SEWER LINE
50 LF TRENCHLESS INSTALLATION OF 8" IN SOIL
50 LF TRENCHLESS INSTALLATION OF 8" NOT IN SOIL
3' COVER MINIMUM
F.M. SEWER PIPE TO BE RESTRAINED BEYOND TRANSITION POINT LENGTH TO BE DETERMINED BY THE CONTRACTOR
HDPE TO DIP TRANSITION COUPLING
378 LF 6" FORCE MAIN SEWER DIP, PC 350
DI SEWER PIPE FROM -S1- STA 42+22 TO 46+00
1"AIR RELEASE VALVE
PROP. TELE. F.O. CABLES (APPROX.)
2"TAPPING SADDLE
550 LF 6" FORCE MAIN SEWER PVC, C900 OR SDR21
2"TAPPING SADDLE
EXIST. GRADE @ SEWER LINE
4' DIA UTILITY MANHOLE #3
EXIST. 2" PVC W/L (TO BE ABANDONED) (APPROX.)
-S/-