

BILL OF MATERIALS			
ID	QTY	ND	DESCRIPTION
1	1.4M	1 1/2"	PIPE, SEAMLESS, CL200, PE, CUNI 90-10 (MIL-T-16420K)
2	0.3M	2 1/2"	PIPE, SEAMLESS, CL200, PE, CUNI 90-10 (MIL-T-16420K)
3	1	1 1/2"	ELBOW 90 SR, CL200, BW, CUNI 90-10 (DWG 1385880)
4	1	2 1/2"	ELBOW 90 SR, CL200, BW, CUNI 90-10 (DWG 1385880)
5	1	2 1/2"X1 1/2"	REDUCER (CONC), CL200, BW, CUNI 90-10 (DWG 1385880)
6	1	2 1/2"	FLANGE SO, 150 LB, RF, ASME B16.5, CUNI 90-10
7	1	1 1/2"	BALL VALVE, 150 LB, RF, ASME B16.34, CF8M SS BODY W/ 316 SS BALL & STEM

CUT PIECE LIST					
ID	LENGTH	ND	END1	END2	
1	1220MM	1 1/2"	SQUARE CUT	BEVEL	
2	175MM	1 1/2"	BEVEL	BEVEL	
3	173MM	2 1/2"	BEVEL	BEVEL	
4	85MM	2 1/2"	BEVEL	SO	

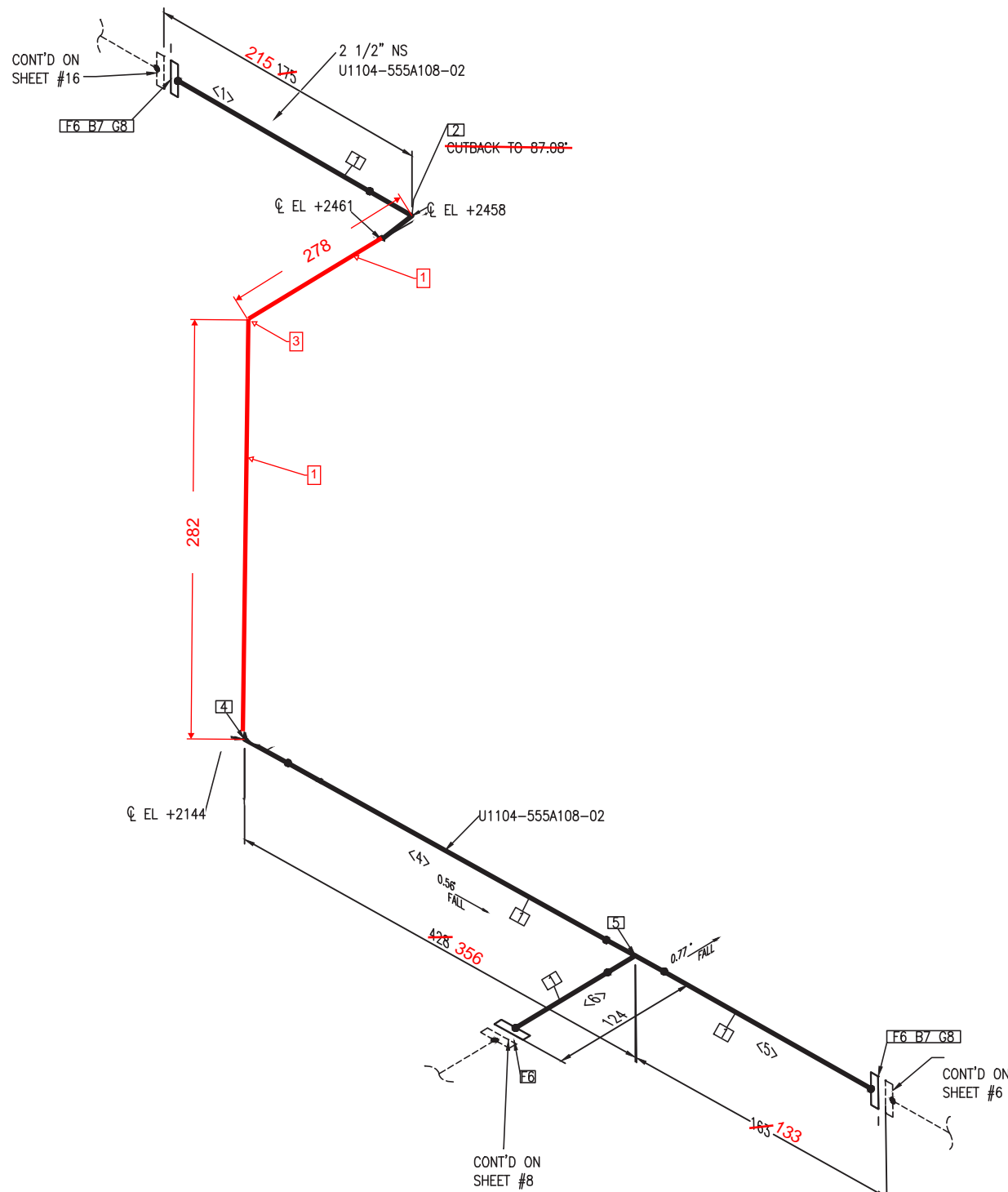
- NOTES:
- DIMENSIONS ARE IN mm.
 - BOLT LENGTHS ARE IN mm.
 - ELEVATIONS ARE RELATIVE ONLY AND ARE NOT REPRESENTATIVE FROM THE BASELINE.
 - CONTRACTOR HAS THE OPTION TO REPLACE CUTBACK ELBOWS LESS THAN 45 DEGREES WITH PIPE BENDS

SPPOOL LIST
07-01

AS-BUILT

01/02/2017

PROJECT				
HERO CLASS PIPING UPGRADE				
CLIENT				
TITLE				
FIRE MAIN SYSTEM SPOOLS				
U1104				
DRAWN BY	DATF DD MMM YY	CHFCCKFD BY	DATF DD MMM YY	PROJFCT NO.
SCALE	N.T.S.	DRAWING NO.	13-68Q-555-04-03	SHEET NO. 6 of 16
REV				01



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SPOOL LIST
08-02

AS-BUILT

01/02/2017

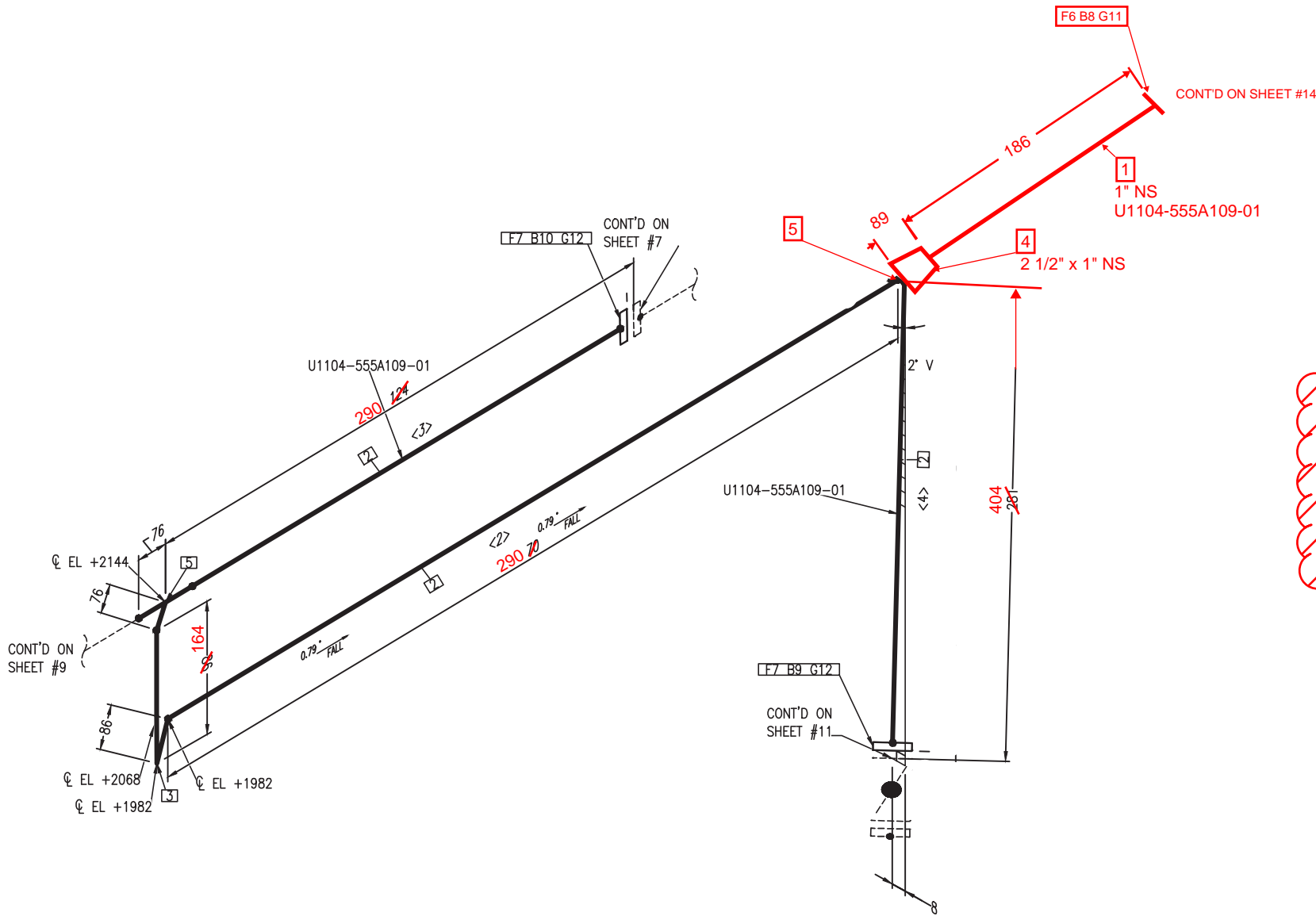
BILL OF MATERIALS			
ID	QTY	ND	DESCRIPTION
1	0.8M	2 1/2"	PIPE, SEAMLESS, CL200, PE, CUNI 90-10 (MIL-T-16420K)
2	1	2 1/2"	ELBOW 90 SR, CL200, BW, CUNI 90-10 (DWG 1385880)
3	1	2 1/2"	ELBOW 90 SR, CL200, BW, CUNI 90-10 (DWG 1385880)
4	1	2 1/2"	ELBOW 90 SR, CL200, BW, CUNI 90-10 (DWG 1385880)
5	1	2 1/2"	TEE, CL200, BW, CUNI 90-10 (DWG 1385880)
6	3	2 1/2"	FLANGE SO, 150 LB, RF, ASME B16.5, CUNI 90-10
7	8	5/8"x89	BOLT SET, RF, 150 LB, STUD BOLT, SS, ASTM A193, GRADE B8M, CLASS 2A, ANSI B18.2.1
8	2	2 1/2"	GASKET, RF, 150 LB, ASME B16.21 INORGANIC FIBER WITH NITRILE BINDER, GARLOCK STYLE IFG 5500 OR EQUAL

CUT PIECE LIST				
ID	LENGTH	ND	END1	END2
1	88MM	2 1/2"	BEVEL	SO
2	112MM	2 1/2"	BEVEL	BEVEL
3	146MM	2 1/2"	BEVEL	BEVEL
4	266MM	2 1/2"	BEVEL	BEVEL
5	82MM	2 1/2"	BEVEL	SO
6	45MM	2 1/2"	BEVEL	SO

PROJECT				
HERO CLASS PIPING UPGRADE				
CLIFNT				
TITLE				
FIRE MAIN SYSTEM SPOOLS				
U1104				
DRAWN BY	DATE DD MMM YY	CHECKED BY	DATE DD MMM YY	PROJECT NO.
SCALE	N.T.S.	DRAWING NO.	13-68Q-555-04-03	SHEET NO. 7 OF 16
REV				1



BILL OF MATERIALS			
ID	QTY	ND	DESCRIPTION
1	0.1M	1"	PIPE, SEAMLESS, CL200, PE, CUNI 90-10 (MIL-T-16420K)
2	0.4M	2 1/2"	PIPE, SEAMLESS, CL200, PE, CUNI 90-10 (MIL-T-16420K)
3	1	2 1/2"	ELBOW 90 SR, CL200, BW, CUNI 90-10 (DWG 1385880)
4	1	2 1/2"x1"	REDUCER (CONC), CL200, BW, CUNI 90-10 (DWG 1385880)
5	2	2 1/2"	TEE, CL200, BW, CUNI 90-10 (DWG 1385880)
6	1	1"	FLANGE SO, 150 LB, RF, ASME B16.5, CUNI 90-10
7	2	2 1/2"	FLANGE SO, 150 LB, RF, ASME B16.5, CUNI 90-10
8	4	1/2"x64	BOLT SET, RF, 150 LB, STUD BOLT, SS, ASTM A193, GRADE B8M, CLASS 2A, ANSI B18.2.1
9	4	5/8"x100	BOLT SET, RF, 150 LB, STUD BOLT, SS, ASTM A193, GRADE B8M, CLASS 2A, ANSI B18.2.1
10	4	5/8"x89	BOLT SET, RF, 150 LB, STUD BOLT, SS, ASTM A193, GRADE B8M, CLASS 2A, ANSI B18.2.1
11	1	1"	GASKET, RF, 150 LB, ASME B16.21 INORGANIC FIBER WITH NITRILE BINDER, GARLOCK STYLE IFG 5500 OR EQUAL
12	2	2 1/2"	GASKET, RF, 150 LB, ASME B16.21 INORGANIC FIBER WITH NITRILE BINDER, GARLOCK STYLE IFG 5500 OR EQUAL



CUT PIECE LIST				
ID	LENGTH	ND	END1	END2
1	56MM	1"	BEVEL	SO
2	71MM	2 1/2"	BEVEL	BEVEL
3	43MM	2 1/2"	BEVEL	SO
4	199MM	2 1/2"	BEVEL	SO

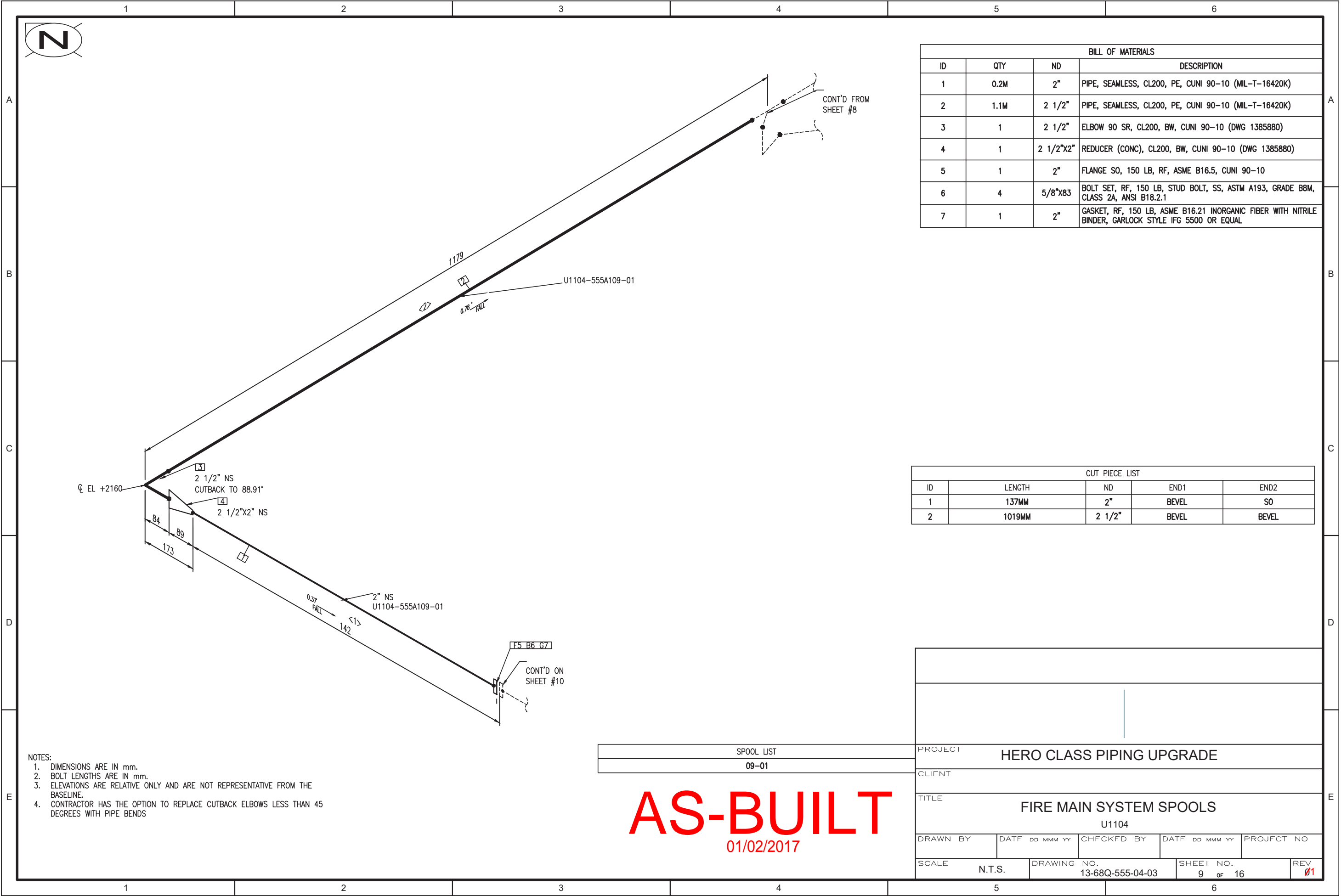
PROJECT				
HERO CLASS PIPING UPGRADE				
CLIFNT				
TITLE				
FIRE MAIN SYSTEM SPOOLS				
U1104				
DRAWN BY	DATF DD MMM YY	CHFKCFD BY	DATF DD MMM YY	PROJFCT NO.
SCALE	N.T.S.	DRAWING NO.	13-68Q-555-04-03	SHEET NO. 8 OF 16
REV				01

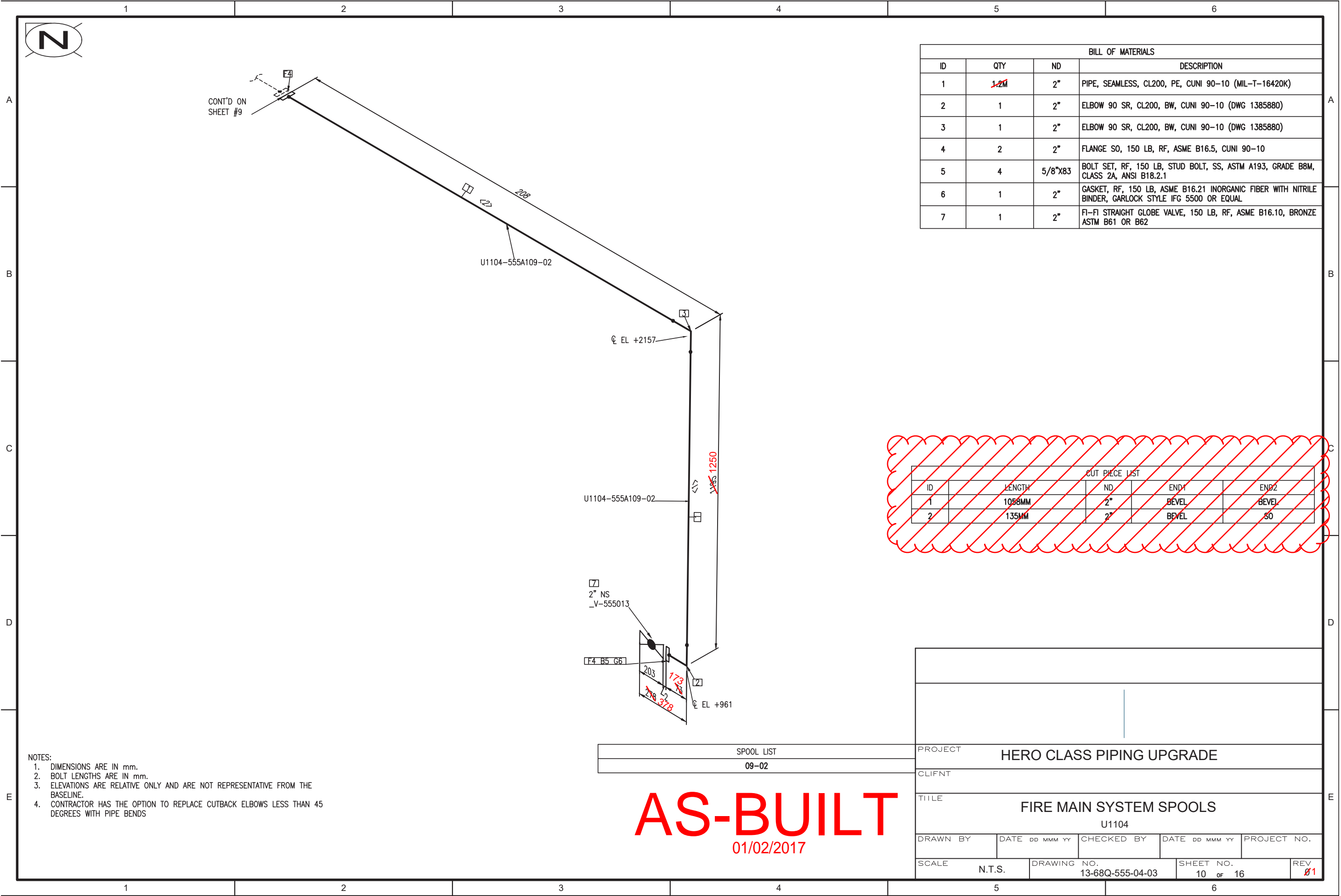
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AS-BUILT

01/02/2017

SPOOL LIST
09-01





BILL OF MATERIALS			
ID	QTY	ND	DESCRIPTION
1	1.2M	2"	PIPE, SEAMLESS, CL200, PE, CUNI 90-10 (MIL-T-16420K)
2	1	2"	ELBOW 90 SR, CL200, BW, CUNI 90-10 (DWG 1385880)
3	1	2"	ELBOW 90 SR, CL200, BW, CUNI 90-10 (DWG 1385880)
4	2	2"	FLANGE SO, 150 LB, RF, ASME B16.5, CUNI 90-10
5	4	5/8"x83	BOLT SET, RF, 150 LB, STUD BOLT, SS, ASTM A193, GRADE B8M, CLASS 2A, ANSI B18.2.1
6	1	2"	GASKET, RF, 150 LB, ASME B16.21 INORGANIC FIBER WITH NITRILE BINDER, GARLOCK STYLE IFG 5500 OR EQUAL
7	1	2"	FI-FI STRAIGHT GLOBE VALVE, 150 LB, RF, ASME B16.10, BRONZE ASTM B61 OR B62

CUT PIECE LIST					
ID	LENGTH	ND	END1	END2	
1	1058MM	2"	BEVEL	BEVEL	
2	135MM	2"	BEVEL	SO	

SPPOOL LIST
09-02

PROJECT					
HERO CLASS PIPING UPGRADE					
CLIFNT					
TITLE					
FIRE MAIN SYSTEM SPOOLS					
U1104					
DRAWN BY	DATE DD MMM YY	CHECKED BY	DATE DD MMM YY	PROJECT NO.	
SCALE	N.T.S.	DRAWING NO.	13-68Q-555-04-03	SHEET NO.	10 OF 16
REV					01

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