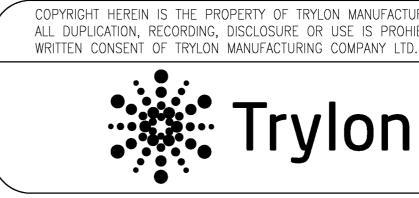
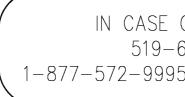
CI	VIL DRAWINGS
TRYLON DWG. NO.	DRAWING NAME
159737.319.0102	TITLE PAGE
159737.319.0301	TOWER PROFILE
159737.319.0302	DESIGN ANTENNA CHART
159737.319.0303	INITIAL ANTENNA CHART
159737.319.0304	Tx-LINE LAYOUT
159737.319.0401	COMPOUND LAYOUT
159737.319.0601	TOWER FOUNDATION - ELEV. VIEW
159737.319.0602	TOWER FOUNDATION - PLAN VIEW
159737.319.0603	REBAR CHARTS
159737.319.0604	FOUNDATION NOTES
159737.319.0605	WGB FOUNDATION
159737.319.0901	TEMPLATE ASSEMBLY
159737.319.1201	GROUNDING DETAILS
159737.319.1202	GROUNDING DETAILS
159737.319.1203	GROUNDING DETAILS
159737.319.1204	GROUND WIRE CUTTING CHART
159737.319.1205	GROUNDING NOTES
	BILL OF MATERIALS

- TRYLON JOB NO.: 159737
 - LATITUDE: 32.299186°
 - LONGITUDE: -64.765877°





JOB DESCRIPTION: 218.5' [66.6M] KDSS TOWER SITE NAME: DEVONSHIRE PARISH, BERMUDA

CUSTOMER: GOVERNMENT OF BERMUDA

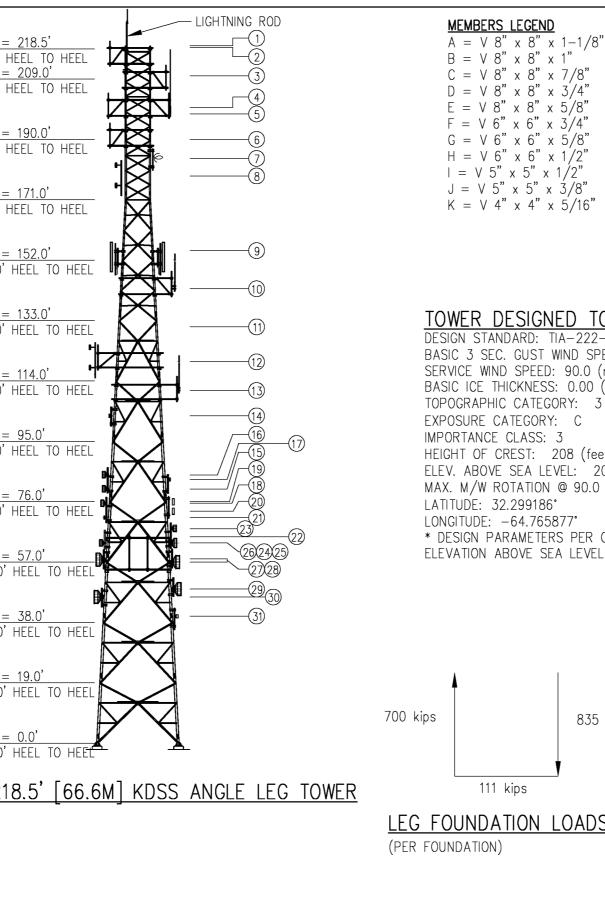
NOTE: PROFESSIONAL ENGINEERING STAMP APPLIES ONLY TO THE DRAWINGS INCLUDED HEREIN.

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT

Trylon

IN CASE OF EMERGENCY CALL: 519-669-5421 (DAYS) 1-877-572-9995 (EVENINGS AND WEEKENDS)

	1513	2						675	97	16	67	855	EL. = 218.5' 8.0' HEEL TO HEEL EL. = 209.0'
	1512		2	22				1266	215	44	67	1592	8.0' HEEL TO HEEL
	1511			z	-			1913	215	44	80	2252	EL. = 171.0'
	1510	2 -	z					2021	215	44	130	2410	8.0' HEEL TO HEEL
	1509	<u>2</u> т	-	>				2290	215	44	186	2735	EL. = 152.0' 10.0' HEEL TO HEEL
		<u> </u>	<u>م</u>										<u>EL. = 133.0'</u> 12.0' HEEL TO HEEL
	1508	0	F	>	>	>]	2756	215	44	198	3213	
				\vdash			>						<u>EL. = 114.0'</u> 14.0' HEEL TO HEEL
	1507	2	S	>	>	>		3319	215	44	374	3952	FI - 95 0'
	ي		⊢					6				<u> </u>	<u>EL. = 95.0'</u> 16.0' HEEL TO HEEL
	1506	2 ш		ъ	Я	ч	2	3906	215	44	333	4498	EL. = 76.0'
	ل ت		S					<u>م</u>				~	$\frac{EL.}{18.0'} = \frac{76.0}{16}$
	1505			2	2	2		4758	215	44	340	5357	<u>EL. = 57.0'</u>
	74	5						8				6	20.0' HEEL TO HEEL
	1504		M	2	2	2	0	7038	215	44	352	7649	
	150.3							6				Ŋ	<u>EL. = 38.0'</u> 22.0' HEEL TO HEEL
	15(≥	0	2	2		6839	215	44	445	7543	<u>EL. = 19.0'</u>
	507	1										5	24.0' HEEL TO HEEL
	1501&1502	A A	Σ	z	z	0	٩.	11551	235	44	491	12321	EL. = 0.0' 26.0' HEEL TO HEEL
				(M)	HORIZONTAL (44W)	44W)	1W)				T (lbs)		<u>218.5' [66.6M]</u>
	AWING		44W)	(44)	NTAL	IAL (E (44	(lbs)	(lbs)	BRKT WT (Ibs)	CEW	(sq	
	_ DR/	(MC	AL (NTAL	JRIZC	AGON	3RAC	N WT	2 WT	L M	SPLI	WT (
DAINT	NSTALL DRAWING	LEG (50W)	DIAGONAL (44W)	HORIZONTAL (44W)	SUB H(SUB DIAGONAL (44W)	PLAN BRACE (44W)	SECTION WT (Ibs)	LADDER WT (Ibs)	Tx BRK	-OWER SPLICE WT	TOTAL WT (Ibs)	
		FOU									_	']
IOTES:	2)	ANT	ENN	A W[EIGH	TS ,	ARE	NO	t in	CLU	DED		THE TOWER SECTION WEIGHTS
	3) 4)	REF REF				030 030							A LOADING CHART. A LOADING CHART.
	5)	REF		TO D									



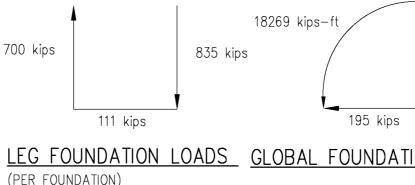
MEMBERS LEGEND

$A = V 8" \times 8" \times 1 - 1/8"$	$L = L 5" \times 5" \times 3/8" - 44$
$B = V 8" \times 8" \times 1"$	$M = L 4" \times 4" \times 5/16" B/B$
$C = V 8" \times 8" \times 7/8"$	$N = L 3" \times 3" \times 1/4" - 44$
$D = V 8" \times 8" \times 3/4"$	$0 = L 3'' \times 3'' \times 3/16'' - 4$
$E = V 8" \times 8" \times 5/8"$	P = L 3 - 1/2" x 3 - 1/2" x 1
$F = V 6" \times 6" \times 3/4"$	R = L 2 - 1/2" x 2 - 1/2" x 3
$G = V 6" \times 6" \times 5/8"$	$S = L 4" \times 4" \times 5/16" - 4$
$H = V 6" \times 6" \times 1/2"$	$T = L 4" \times 4" \times 1/4" - 44"$
$I = V 5" \times 5" \times 1/2"$	$U = L 4" \times 4" \times 3/8" - 44$
$J = V 5" \times 5" \times 3/8"$	$V = L 2" \times 2" \times 3/16" - 4$
$K = V 4" \times 4" \times 5/16"$	$W = L 5" \times 5" \times 5/8" B/B$

TOWER DESIGNED TO SITE SPECIFIC: DESIGN STANDARD: TIA-222-H

BASIC 3 SEC. GUST WIND SPEED: 160.0 (mph) SERVICE WIND SPEED: 90.0 (mph) BASIC ICE THICKNESS: 0.00 (in) TOPOGRAPHIC CATEGORY: 3 EXPOSURE CATEGORY: C IMPORTANCE CLASS: 3 HEIGHT OF CREST: 208 (feet) ELEV. ABOVE SEA LEVEL: 208 (feet) MAX. M/W ROTATION @ 90.0 (mph): 0.5° LATITUDE: 32.299186° LONGITUDE: -64.765877° * DESIGN PARAMETERS PER CLIENT EMAIL RECEIVED 13-JUN

ELEVATION ABOVE SEA LEVEL & HEIGHT OF CREST FROM GC



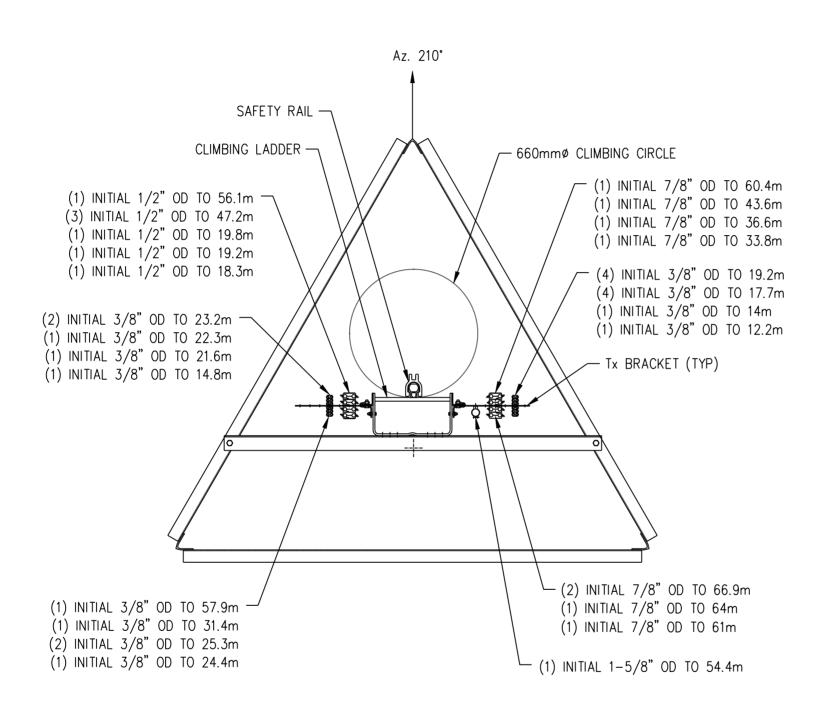
	REV.	BY: REV.	BY: CHK.		DESC	CRIPTION	DATE	
14W /B — 44W 14W	A	MA	PS	ISSUE	FOR	APPROVAL	20 FEB	20
44W 1/4"- 44W 3/16"- 44W	В	HM	МА	ISSUE	FOR	CONSTRUCTION	05 MAY	20
44W 44W 44W	С	ON	MP	REVISE	D LC	ADING	14 MAY	20
44W 3 - 44W								
				RAWING	S:			
			0302	JMBER		DRAWING N	IUMBER	
			0303					
		(0304					
–2019. Dogle Earth.								
71 kips								
Y								
<u>ON LOADS</u>		DENTIAL	_: ALL _ PROP	EDTV				
	RIGHT PROPI	S HERE ERTY O	EIN ARE F TRYLO PLICATIO	THE ON	•	其 Try	/lo	n
	RECO OR U	RDING,	DISCLO: PROHIBI	SURE -		- ING NO. 59737.319	<u>0301</u>	
	CONS CUS	ent of Tomef	<u>TRYLO</u> २:	S	ITE:	c	SCALE:	
	DATE			UDA U BY: M		CHK:	370 APP: ZA	.000
	TITLE						20	
				UWE	Κŀ	PROFILE		

	DE	SIGN AN	TENNA L	OADING C	HART			
Description	Qty	Elev. (m)	Elev. (ft)	Azimuth (°TN)	TX Line IN 3-ROWS	Qty	Owner	Status
L.Rod	1	67.1	220	0	3/8"OD	1	GOV	Design
6' Omni +Face Mount	1	66.9	219.5	0	7/8"OD	1	GOV	Design
4' Omni LegMounted	1	66.8	219	0	7/8"OD	1	GOV	Design
6' Omni +Face Mount	1	64	210	0	7/8"OD	1	GOV	Design
8' Omni +Face Mount	1	61	200	0	7/8"OD	1	ECL	Design
20' OMNI +Face Mount	1	60.4	198	0	7/8"OD	1	BMOC (VHF)	Design
Tetra AE3 Leg Mounted	1	57.9	190	0	3/8"OD	1	GOV	Design
JANPRO JLCP-1 FM +Leg Mount	1	56.1	184	0	1/2"OD	1	EMO	Design
2 BAY FM: 3'Tx2"W X 2'L	1	54.4	178.5	240	1-5/8"OD	1	IIC FM	Design
(**) Panel 72x12x6" Leg Mounted	3	47.2	155	0	1/2"OD	3	GOV	Design
20' Omni +Face Mount	1	43.6	143	0	7/8"OD	1	BMOC (VHF)	Design
PARAGRID: 18"Tx3'W LegMounted	1	39.9	131	275	1/2"OD	1	IIC FM	Design
2BAY FM: 2'Tx2'W X 2' L +12"StandOff	1	36.6	120	120	7/8"OD	1	IRIE FM	Design
20' Omni +Face Mount	1	33.8	111	0	7/8"OD	1	BMOC (VHF)	Design
1-ft MW +(1)0DU +12"StandOff	1	31.4	103	195	3/8"OD	1	CCS/BPS	Design
1-ft MW +(1)0DU +12"StandOff	1	25.3	83	15	3/8"OD	1	CCS/BPS	Design
2-ft MW +(1)0DU +12"StandOff	1	25.3	83	300	3/8"OD	1	CCS/BPS	Design
2-ft MW +(1)0DU +12"StandOff	1	24.4	80	300	3/8"OD	1	CCS/BPS	Design
2-ft MW +(1)0DU +12"StandOff	1	23.2	76	195	3/8"OD	1	CCS/BPS	Design
2-ft Panel +(1)0DU +12"StandOff	1	23.2	76	315	3/8"OD	1	CCS/BPS	Design
2-ft Panel +(1)0DU +12"StandOff	1	22.3	73	50	3/8"OD	1	CCS/BPS	Design
1-ft MW +(1)0DU +12"StandOff	1	21.6	71	235	3/8"OD	1	CCS/BPS	Design
Y4503 +Leg Mount	1	19.8	65	0	1/2"OD	1	EMO	Design
2-ft MW +(1)0DU +12"StandOff	1	19.2	63	0	1/2"OD	1	GOV	Design
VHLP3-6W-DW1 +(2)ODU	1	19.2	63	315	3/8"OD	2	CCS/BPS	Design
VHLP4-6W-DW1C +(2)ODU	1	19.2	63	50	3/8"OD	2	CCS/BPS	Design
2-ft MW +(1)0DU +12"StandOff	1	18.3	60	0	1/2"OD	1	GOV	Design
VHLP4-6W-DW1C +(2)ODU	1	17.7	58	235	3/8"OD	2	CCS/BPS	Design
VHLP4-6W-DW1C +(2)ODU	1	17.7	58	50	3/8"OD	2	CCS/BPS	Design
3-ft MW +(1)0DU +12"StandOff	1	14.8	48.5	50	3/8"OD	1	BMOC	Design
3-ft MW +(1)0DU +12"StandOff	1	14	46	235	3/8"OD	1	BMOC	Design
1-ft Sqr Panel +12"StandOff	1	12.2	40	0	3/8"OD	1	ECL	Design
(**) Panel 72x12x6" ASSUMED		STAT	JS: E-E	XISTING, F	-FUTURE, I-IN	NITIAL,	P-PROPOS	SED

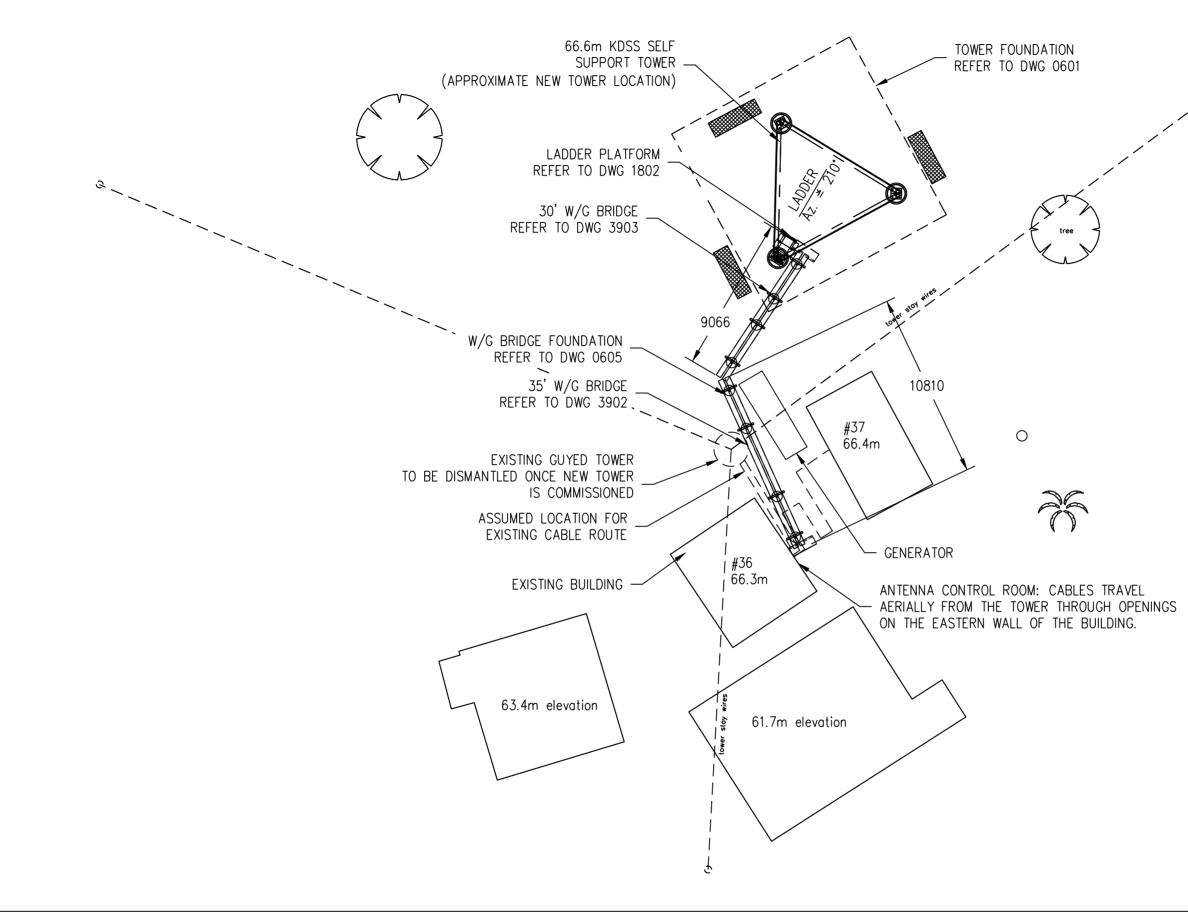
REV.	BY: REV.	BY: CHK.		DES	CRIPTION	[DATE	
А	MA	PS	ISSUE	FOR	APPROVAL	20	FEB	20
В	HM	MA	ISSUE	FOR	CONSTRUCTION	05	MAY	20
0.55								
				.5:				
		NG NC	JMBER		DRAWING N		DER	
CONT					•			
INTELI RIGHT PROP INC.	IDENTIAL LECTUAL S HERE ERTY O ALL DUI	. PROPI IN ARE F TRYLO PLICATIO	THE ON ON,		Try	/	0	n
RECO OR U WITHC	RDING, SE IS F DUT WRI ENT OF	DISCLO: PROHIBI TTEN	SURE TED		- ing no. 59737.319.	.03	302	
CUS	TOMEF	?:	0	NTE: DEVON	ISHIRE PARISH	SCAI		00
DATE	: 20 FE		BY: M	A	CHK: A	\PP	: ZA	
TITLE		FSIC			INNA CHAF	2T		
	U			INIL	ININA UHAP	N I		

			A	NTENNA					Tx. LINE	TIE IN SITE	OWN
ITEM No.	QTY.	MAKE AND MODEL OF ANTENNA	ELEVATION (ft.)	ELEVATION (m)	AZIMUTH (°TN)	DOWN TILT (E/M°)	STATUS	QTY.	DESCRIPTION		
1	1	6' Omni +Face Mount	219.5	66.9	OMNI	TBD	INITIAL	1	TBD	_	GOV
2	1	TETRA AE1 + FACE Mounted	220	67.0	180	TBD	INITIAL	1	TBD	_	GOV
3	1	TETRA AE2 + Face Mount	210	64	90	TBD	INITIAL	1	TBD	_	GOV
4	1	TETRA 8'WHIP + Face Mount	200	61	180	TBD	INITIAL	1	TBD	_	ECL
5	1	20' OMNI + Face Mount	198	60.4	OMNI	TBD	INITIAL	1	7/8"OD	-	BMO
6	1	Tetra AE3 Leg Mounted	190	57.9	270	TBD	INITIAL	1	3/8"OD	_	EMC
7	1	JAMPRO JLCP-1 FM +Leg Mount	184	56.1	N/A	TBD	INITIAL	1	1/2"OD	-	EMC
8	1	2 BAY FM: 3'Tx2"W X 2'L	178.5	54.4	N/A	TBD	INITIAL	1	1-5/8"OD	_	IIC F
9	3	(**) Panel 72x12x6" Leg Mounted	153	46.6	0°/90°/270°	TBD	INITIAL	3	1/2"OD	_	GOV
10	1	20' Omni +Face Mount	143	43.6	OMNI	TBD	INITIAL	1	7/8"OD	_	BMOC
11	1	PARAGRID: 18"Tx3'W - LEG MOUNTED	131	39.9	275	TBD	INITIAL	1	1/2"OD	_	IIC F
12	1	2BAY FM: 2'Tx2'W X 2' L+StandOff	120	36.6	120	TBD	INITIAL	1	7/8"OD	_	IRIE
13	1	20' Omni +Face Mount	111	33.8	OMNI	TBD	INITIAL	1	7/8"OD	_	BMO
14	1	HPCPE-23DW2 +(1)0DU+StandOff	103	31.4	195	TBD	INITIAL	1	3/8"OD	_	CCS/E
15	1	SPD2-5-2NS+(1)0DU+StandOff	83	25.3	15	TBD	INITIAL	1	3/8"OD	_	CCS/E
16	1	2-ft MW +(1)ODU +StandOff	84.5	25.7	300	TBD	INITIAL	1	3/8"OD	-	CCS/E
17	1	SPD2-5 2NS +(1)0DU + StandOff	80	24.4	300	TBD	INITIAL	1	3/8"OD	_	CCS/E
18	1	2-ft MW +(1)0DU + StandOff	75.5	23.0	195	TBD	INITIAL	1	3/8"OD	_	CCS/E
19	1	AFS-DBG-0360-01 PANEL+StandOff	76	23.2	315	TBD	INITIAL	1	3/8"OD	_	CCS/E
20	1	AFS-DBG-0360-01 PANEL+StandOff	73	22.3	50	TBD	INITIAL	1	3/8"OD	_	CCS/E
21	1	HPCPE-23DW2 +(1)0DU + StandOff	71	21.6	235	TBD	INITIAL	1	3/8"OD	_	CCS/E
22	1	Y4503 + Leg Mount	65	19.8	0	TBD	INITIAL	1	1/2"LDF	_	EMC
23	1	2-ft MW +(1)0DU + StandOff	67.5	20.5M	90	TBD	INITIAL			_	GOV
24	1	VHLP3-6W-DW1 +(2)ODU	63	19.2	315	TBD	INITIAL	4	7 /0" 00	_	CCS/E
25	1	VHLP4-6W-DW1C + (2)ODU	63	19.2	50	TBD	INITIAL	4	3/8"OD	_	CCS/E
26	1	2-ft MW +(1)0DU + StandOff	63	19.2	270	TBD	INITIAL	_	TBD	_	GOV
27	1	VHLP4-6W-DW1C + (2)ODU	58	17.7	235	TBD	INITIAL	4	7 /0" 00	_	CCS/E
28	1	VLP4-6W DW-1C + (2)ODU	57	17.6	50	TBD	INITIAL	4	3/8"OD	_	CCS/E
29	1	3-ft MW +(1)0DU + StandOff	48.5	14.8	50	TBD	INITIAL	1	3/8" LDF	_	ВМО
30	1	3-ft MW +(1)0DU + StandOff	46	14	235	TBD	INITIAL	1	3/8"LDF	_	ВМО
31	1	1-ft Sqr Panel + StandOff	40	12.2	0	TBD	INITIAL	1	TBD	_	ECL

]	REV.	BY: REV.	BY: CHK.		DES	CRIPTIC	л		Date	-
WNER	A	НМ	МА	ISSUE	FOR	CONST	RUCTION	5	MAY	20
SOV .	В	ON	MP	REVISE	D AI	NTENNA	CHART	14	MAY	20
OV										
OV										
ICL .										
ЛОС										
MO										
МО										
FM										
OV										
OC										
C FM										
E FM										
ЛОС	REF	ERENC	E DI	RAWING	S:					
5/BPS		DRAWII	NG NI	JMBER		DR	AWING N	1UM	1BER	
S/BPS										
S/BPS										
S/BPS										
S/BPS										
S/BPS										
S/BPS										
S/BPS										
мо										
OV										
S/BPS										
s/BPS										
OV										
S/BPS										
S/BPS						_				
NOC	INTEL	IDENTIAL	PROP		•••		т	, I	~	~
лос	PROP	'S HERE ERTY O ALL DUI	F TRYL	ON	•••		Try	/	U	
ICL	RECO	RDING, SE IS I	DISCLO	SURE -		/ING N				
	CONS	ut wri <u>ent of</u> tomef	TRYLO		15 ITE:	5973	7.319		303 LE:	5
		OV OF		UDA [EV0		PARISH		1.(000
		5 MAY	′20	BY: HI	М	CHK:	MA	4PF	ZA	
	TITLE		NITI/	AL AI	NTE	NNA	CHAR	T		
	I									



	REV.	BY: REV.	BY: CHK.		DESC	CRIPTION	D	ATE	
	A	НМ	MA	ISSUE	FOR	CONSTRUCTION	05 1	MAY	20
\									
(H)									
	REF	ERENC	E DI	RAWINC	S:				
	۵	RAWI	NG NU	MBER		DRAWING N	NUME	BER	
					1				
	INTELI		. PROP		•			_	
	PROP	erty o All Dui	:in are F tryl(Plicatic	NC N, NC	•••	Try		U	
	RECO OR U	RDING,	DISCLO: PROHIBI	SURE 📙		ING NO.	07	∩ 4	
	CONS	<u>ENT OF</u> FOMEF	TRYLO R:	9	SITE:		SCAL	E:	
	DATE	:	BERM	BY:			APP:	20.0	000
	(TITLE)5 MA ::	1	Н		MA		ZA	
			Т	x–L	NE	LAYOUT			



REV.	BY: REV.	BY: CHK.		DESC	CRIPTION		(DATE	
A	MA	PS	ISSUE	FOR	APPROVA	L	20	FEB	20
в	НМ	MA	ISSUE	FOR	CONSTRU	CTION	05	MAY	20
							L		
REF	ERENC	E DF	RAWING	S:					
			MBER		DRAW	ING N	IUM	BER	
	0	601							
		605							
		302							
	3	902							
	3	903							
INTELI RIGHT PROP	identiai Lectuai S here Erty o All Dui	. PROPI IN ARE F TRYL(THE ON	•••	1	۲ry	/	0	n
RECO	RDING, SE IS F	DISCLO	SURE 🕂	ORAW	ING NO.				
WITHC	UT WRI	TTEN TRYLO		15	59737.	319	.04	401	

CUSTOMER: SITE: GOV OF BERMUDA DEVONSHIRE PARISH

MA

COMPOUND LAYOUT

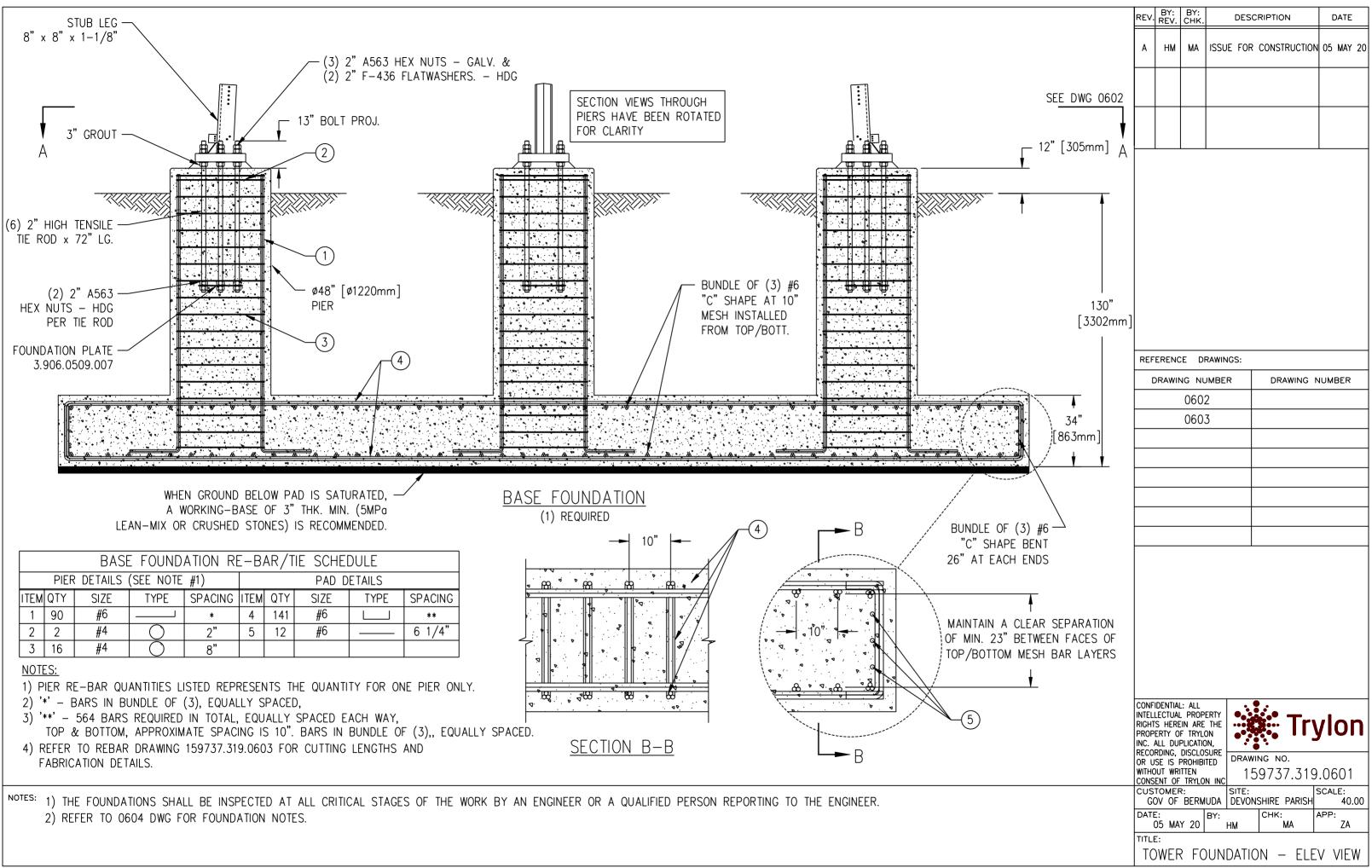
DATE: 20 FEB 20

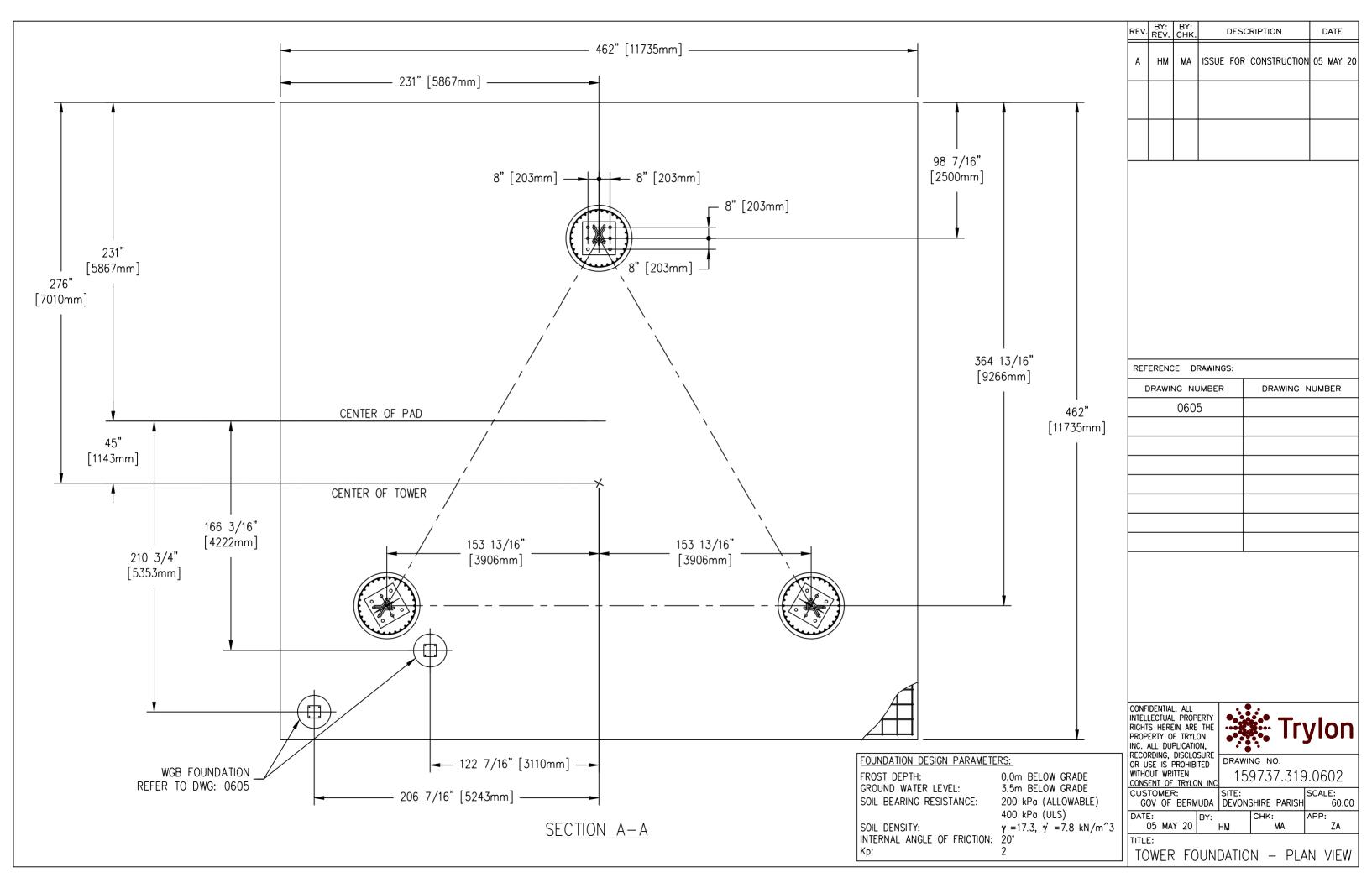
TITLE:

CHK: PS SCALE: 225.000

APP: ZA

R





ITEM	BAR LOCATION	BAR SIZE	TYPE	TOTAL LENGTH OF BAR (inch)	BE DIM. 'A'	NDING DIAG DIM. 'B'	RAM	QTY. REQ'D	TOTAL BAR WT
4	TWR PAD	# 6		488-1/4"	456"	26"	i 'A' i l	376	22978
4	TWR PAD	#6	- 'C' SHAPE	486"	454-1/4"	25-1/2"		188	11434
		116	-	150 7/0"	174 7 /4"	0.4"	B –	100	75.74
1	TWR PIER	#6 #6	-	156-7/8" 156-1/8"	134-3/4" 134-1/2"	24" 23-1/2"	<u>→ `A`</u> → ↓	180 90	3534
	WGB PIER	#0 #6	BENT	144-7/8"	134-1/2	12"		36	1759 653
6	WGB PIER	#0 #6	-	144-5/8"	134-1/2"		в⊣	12	217
2	TWR PIER	#4		138-3/8"	42"			6	46
3	TWR PIER	#4		138-3/8"	42"		т 90° ноокs	48	370
7	WGB PIER	#4	- TIE -	63"	18"		BOTH ENDS	136	477
			- STIRRUP				A 135° HOOKS		
5	TWR PAD	# 6		456"			y	12	685
8	WGB PAD	# 5	STRAIGHT	48"				72	300
			STRAIGHT						
			STRAIGHT						
IZES & W	EIGHTS						TOTAL BAR WEIG	GHT (Ibs)	42455
ETRIC W 10M 15M 20M 25M	T. (Kg/M) 0.785 1.570 2.355 3.925 5.495								

NOTES: 1) REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING WITH CSA STANDARD G30.18-M92 GR 400. 2) REJECT BARS WITH KINKS OR BENDS NOT SHOWN ON THIS DRAWING.

REV.	BY: REV.	BY: CHK.		DESC	RIPTION		DATE	
A	ΗМ	MA	ISSUE	FOR	CONSTRUCTION	05	MAY	20
			JMBER	S:	DRAWING N	IUM	BER	
	Dentiai Lectuai							
RIGHT PROPI	s here Erty o All Dui	in are f tryl plicati(THE ON ON,		, Try	/	10	1
RECO OR U WITHO	RDING, SE IS F IUT WRI	disclo Prohibi Tten	SURE [ing no. 9737.319.	.06	503	
CUS GC	ent of tomef DV OF	र:	IUDA [ITE:	ISHIRE PARISH	SCAL	-E: 1.0	0
DATE (05 MA	Y 20	BY: HI	V	СНК: А МА		ZA	
			REB	٩R	CHART			

FOUNDATION NOTES:

GENERAL:

- 1) THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH THE WORK.
- 2) ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF ACI STANDARDS.
- 3) FOUNDATIONS DESIGNED IN ACCORDANCE WITH SOILS REPORT:

COMPANY NAME: BRUNEL ENGINEERING CONSULTANTS

REPORT NUMBER: 19-103

REPORT DATED: 27-JAN-2020

4) THE TOWER BASE PAD SHALL BE PLACED AGAINST UNDISTURBED SOIL.

CONCRETE:

- 1) CONCRETE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF STANDARD ACI 318-95.
- 2) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF NOT LESS THAN 4350 PSI [30 MPa].
- 3) CONCRETE SHALL CONTAIN AN AIR ENTRAINING AGENT. TOTAL AIR CONTENT TO BE 5% TO 7%, FOR THE PARTICULAR SIZE OF AGGREGATE BEING USED. THE AIR ENTRAINING AGENT SHALL BE COMPATIBLE WITH THE WATER REDUCING AGENT. AIR ENTRAINED MAY BE OMITTED IF CONCRETE IS NOT EXPOSED TO FREEZING AND THAWING CYCLES.
- 4) THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4".
- 5) THE USE OF CALCIUM CHLORIDE OR ACCELERATING ADMIXTURES IS PROHIBITED.
- 6) SLUMP SHALL BE 3" + / 1".
- 7) IF THE AIR TEMPERATURE IS 41 DEGREES F OR LESS, THE TEMPERATURE OF THE CONCRETE AT TIME OF PLACING, SHALL BE BETWEEN 59 AND 86 DEGREES F.
- 8) CHAMFER EXPOSED CORNERS OF CONCRETE (APPROX 3/4").
- 9) PROVIDE EFFECTIVE MEANS OF MAINTAINING THE TEMPERATURE OF CONCRETE IN PLACE AT A MINIMUM OF 50 DEGREES C AND A MAXIMUM OF 86 DEGREES F FOR THREE DAYS AFTER PLACING. WHEN THE MEAN DAILY AIR TEMPERATURE IS LESS THAN 41 DEGREES F PROVIDE PROTECTION FOR NEWLY PLACED CONCRETE BY MEANS OF SUITABLE ENCLOSURES OR RAISED COVERINGS, HEAT AND INSULATION.
- 10) ALL GROUT SHALL BE NON-FERROUS AND NON SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS, EDGES GROUT SHALL BE TAPERED OFF AT 45°.
- 11) ALL CONCRETE TO BE TYPE 10 NORMAL PORTLAND CEMENT.

REINFORCEMENT:

- 1) CLEAN REINFORCEMENT OF ANY LOOSE SCALE, DIRT OR OTHER COATINGS WHICH WOULD DESTROY OR REDUCE BONDING. REJECT BARS WITH KINKS OR BENDS NOT SHOWN ON THIS DRAWING.
- 2) ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 3" CONCRETE COVER.
- 3) REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING WITH ASTM A615 (GRADE 60) (BLACK OR GALVANIZED STEEL)

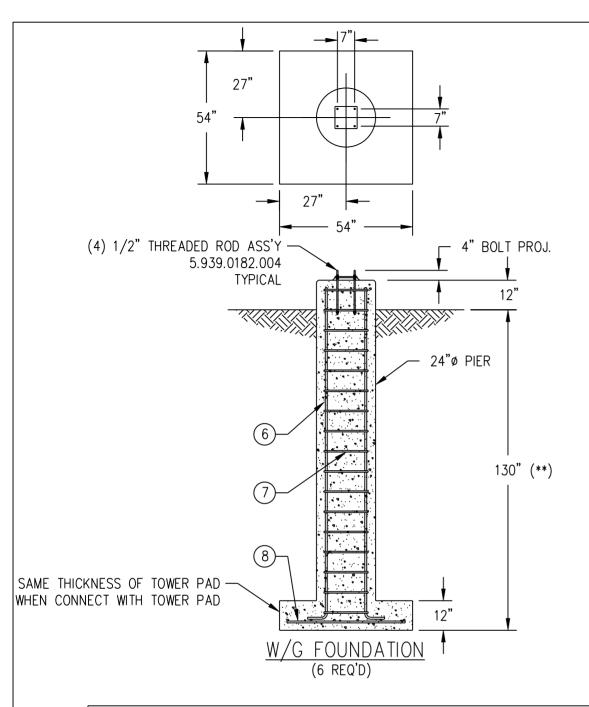
BACKFILLING:

1) BACKFILL SHALL BE PLACED IN THIN LIFTS (MAXIMUM 6") AND COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY. IN THE EVENT THAT EXCAVATED MATERIALS ARE NOT SUITABLE FOR BACKFILL, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY AND COMPACT SUITABLE CLEAN MATERIAL TO MEET THAT REQUIREMENT.

STANDARDS:

- 1) FOUNDATIONS AND ANCHORS DESIGNED IN ACCORDANCE WITH TIA 222-H.
- 2) CONCRETE WORK IN ACCORDANCE WITH ACI 318-95.
- 3) REINFORCEMENT FOR CONCRETE IN ACCORDANCE WITH ACI 318-95.

REV.	BY: REV.	BY: CHK.		DESC	CRIPTION		DATE	
A	нм	MA	ISSUE	FOR	CONSTRUCTION	05	MAY	20
REF	ERENC	E DI	RAWING	S:				
			MBER		DRAWING N	10M	BER	
				\square				
CONF	DENTIA	L: ALL		• •				
inteli Right	LECTUAI S HERE	_ PROP IN ARE	THE		Try	/	N I	ר
INC. /	ALL DU	F TRYLO)N,	•••		/ •		
OR U		DISCLO: Prohibi Itten			ing no. 9737.319	06	 	
 CONS CUS	<u>ENT OF</u> TOMEF	TRYLO R:	s	ITE:		.UC SCAI	-E:	
G(DATE		BERM	UDA [BY:	EVON	ISHIRE PARISH		1.0	0
	05 MA	Y 20	H	N	MA		ZA	
		FO	UND	ATIC	N NOTES			

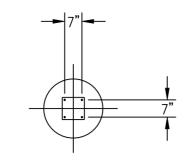


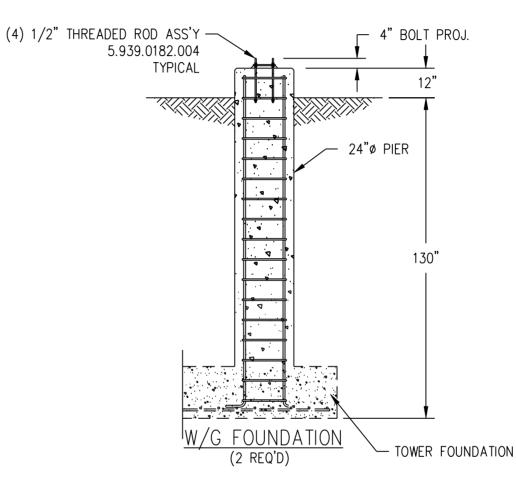
	W/G FOUNDATION RE-BAR/TIE SCHEDULE									
PIER DETAILS PAD DETAILS										
ITEM	QTY	SIZE	TYPE	SPACING	ITEM	QTY	SIZE	TYPE	SPACING	
6	6	# 6		EQUAL	8	6	# 5		*	
7	17	#4	$ $ \bigcirc	EQUAL						

- 1) QUANTITIES LISTED REPRESENTS THE QUANTITY FOR ONE FOUNDATION ONLY. 2) '*' 12 BARS REQUIRED IN TOTAL, EQUALLY SPACED EACH WAY,
- APPROXIMATE SPACING IS 8"

3) REFER TO REBAR DRAWING 159737.319.0603 FOR CUTTING LENGTHS AND FABRICATION DETAILS.

- NOTES: 1) REFER TO DWG 0604 FOR FOUNDATION NOTES
 - 1) '**' FOR PIERS AWAY FROM THE EXCAVATION AREA OF TOWER FOUNDATION, THE DEPTH OF W/G FOUNDATION CAN REDUCED TO 60" BELOW GRADE





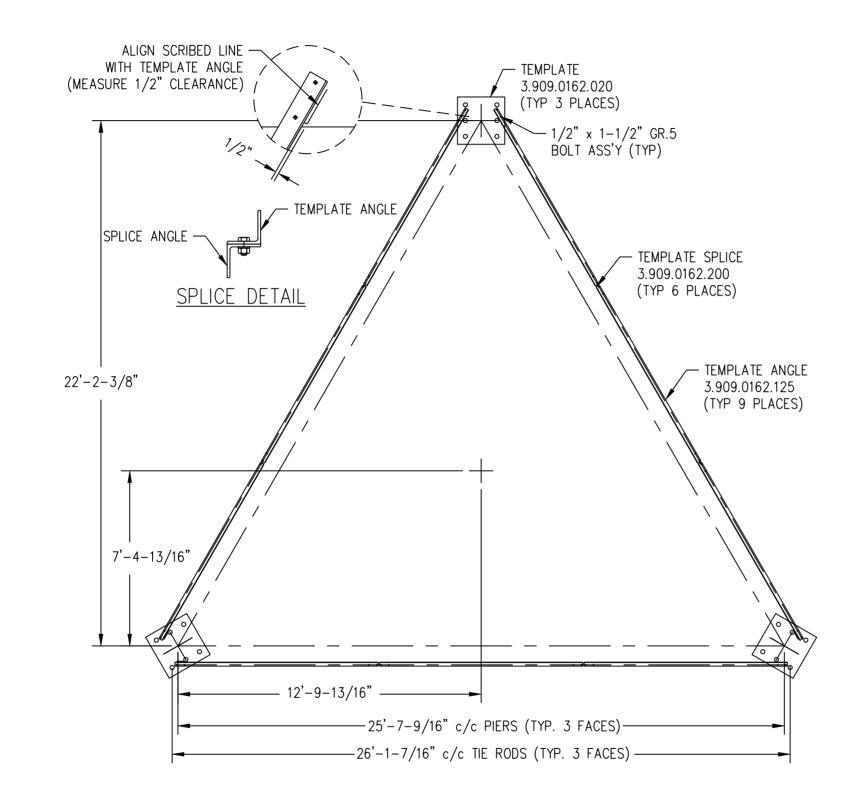
	W/G FOUNDATION RE-BAR/TIE SCHEDULE											
PIER DETAILS PAD DETAILS												
ITEM	QTY	SIZE	TYPE	SPACING	QTY	SIZE	TYPE	SP/				
6	6	#6		EQUAL								
7	7 17 #4 O EQUAL											

NOTES:

- 1) QUANTITIES LISTED REPRESENTS THE QUANTITY FOR ONE FOUNDATION ONLY.
- 2) REFER TO REBAR DRAWING 159737.319.0603 FOR CUTTING LENGTHS AND FABRICATION DETAILS.

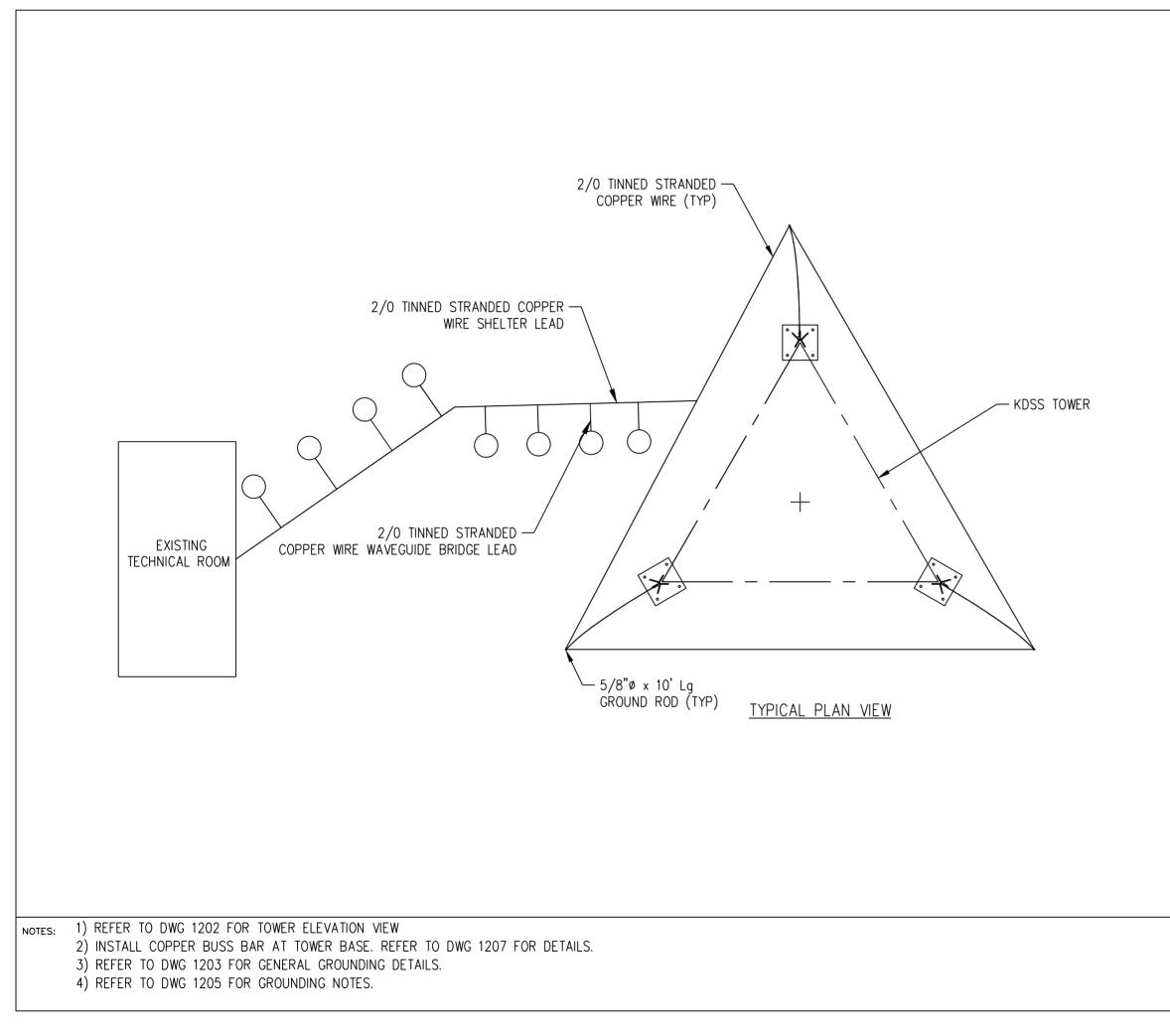
REV.	BY: REV.	BY: CHK.		DES	CRIPTION	DATE
A	НМ	MA	ISSUE	FOR	CONSTRUCTION	05 MAY 20
				is:	DRAWING N	
		603				
	0	604				
INTELI	IDENTIAL	. PROP		•••	• •	dan
PROP	's here Erty oi All dui	F TRYL(ОМ	•		/lon
RECO OR U	rding, Se is f	DISCLO: PROHIBI	SURE –		NNG NO.	0.005
CONS)ut WRI <u>ENT OF</u> TOMEF	TRYLO		15 SITE:	59737.319	.0605 scale:
	OV OF				NSHIRE PARISH	40.00
	05 MA	Y 20	Н	М	MA	ZA
		W	GB	FOL	INDATION	

PACING

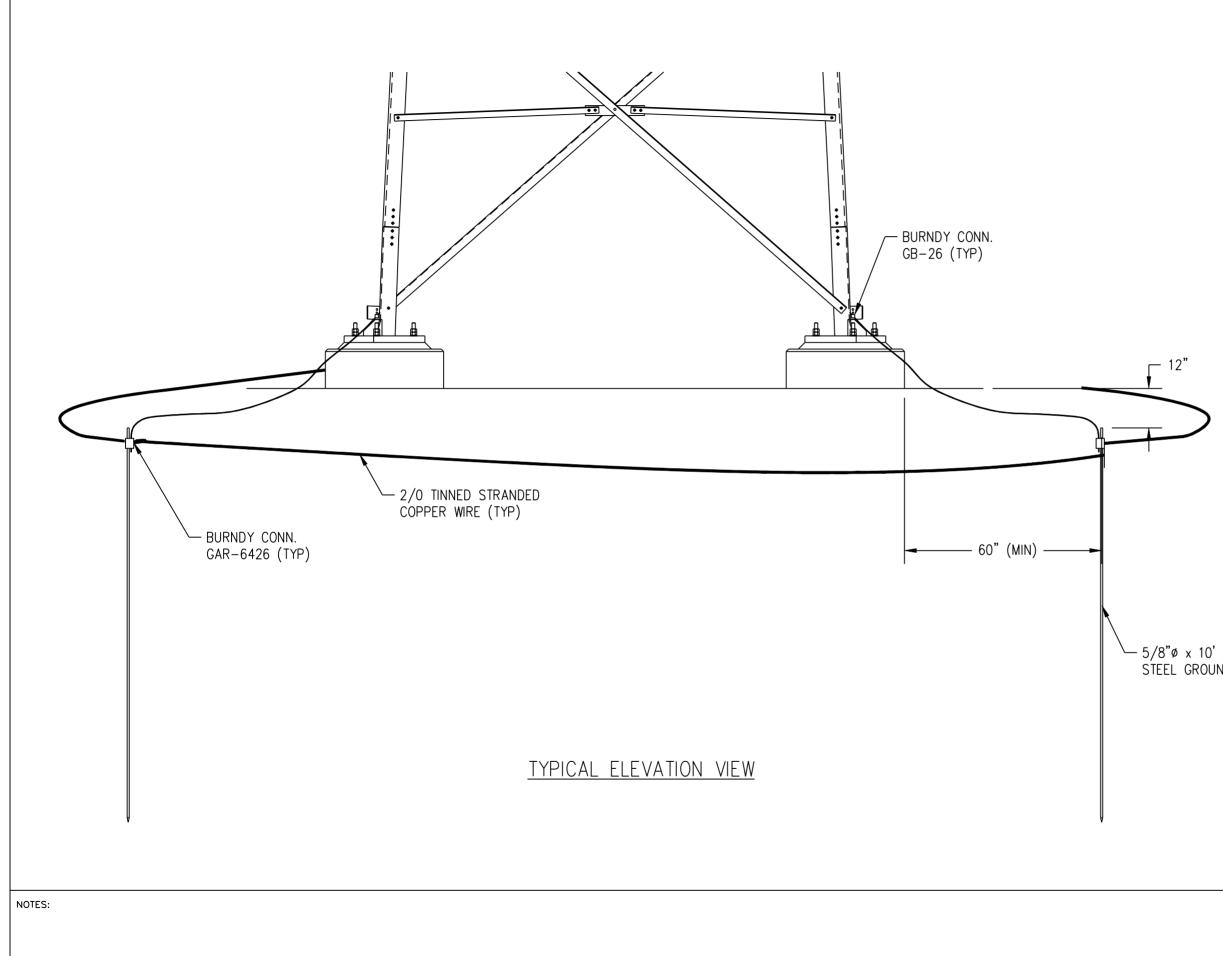


NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.

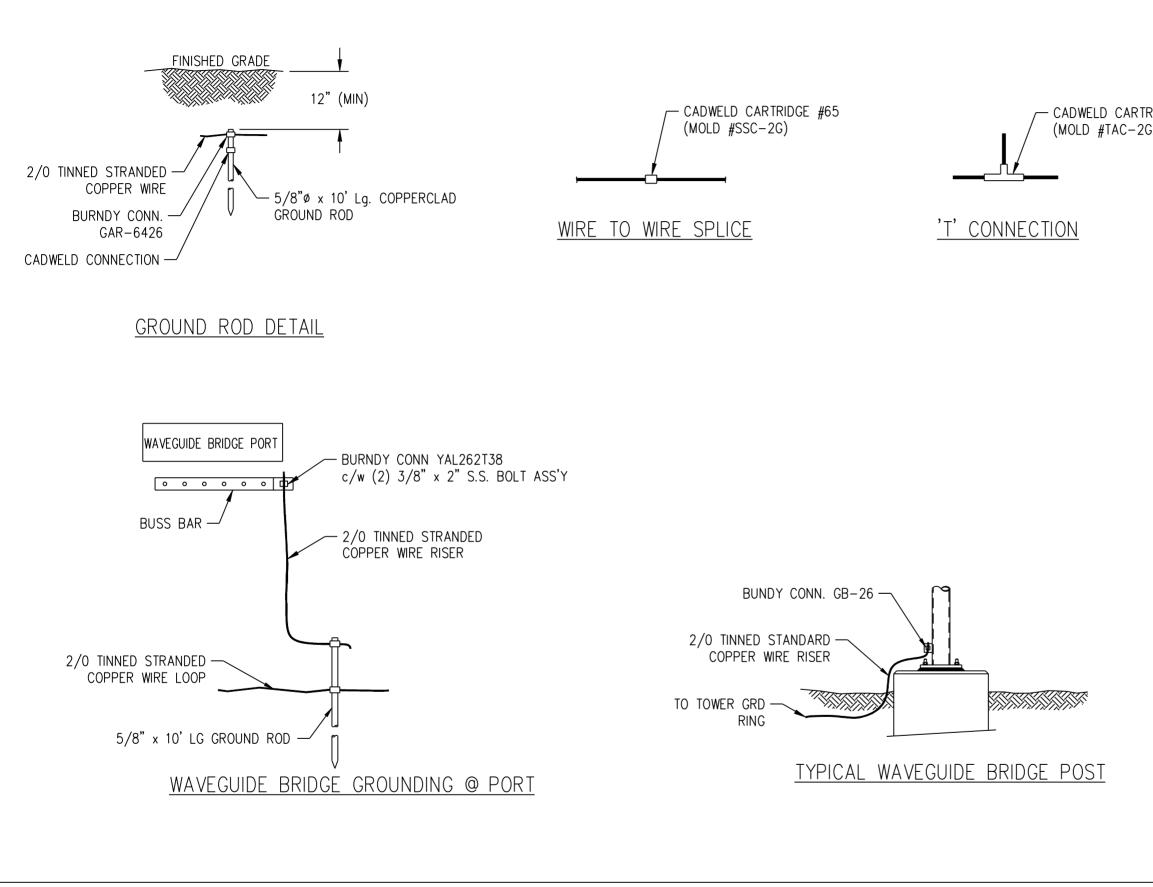
REV.	BY: REV.	BY: CHK.		DES	CRIPTION		DATE	
А	MA	PS	ISSUE	FOR	APPROVAL	20	FEB	20
в	ΗМ	MA	ISSUE	FOR	CONSTRUCTION	05	MAY	20
SE(CTION G: V	l: 26 8"x8	, –0 "x1–	" 1/8"		I		
<u> </u>		E DI						
	RAWI	NG NU	JMBEF	2	DRAWING N	IUM	BER	
00115	DE117.1.							
INTELL RIGHT	s here	. PROPI	THE	•	Try	/	0	n
INC. A	ALL DUF RDING,	f tryl(Plicatic Disclos Prohibi)n, Sure -	DRAW	ING NO.			- 4
WITHO	UT WRI	tten Tryloi	N INC.	15	59737.319			
		BERM		SITE: DEVON	SHIRE PARISH		50.	000
	20 FE			1A	PS	-u- F*	ZA	
		TEN	/PLA	TE	ASSEMBLY			



REV.	BY: REV.	BY: CHK.		DESC	CRIPTION	DATE
A	MA	PS	ISSUE	FOR	APPROVAL	20 FEB 20
В	НМ	MA	ISSUE	FOR	CONSTRUCTION	5 MAY 20
С	ON	MP			CORDING	14 MAY 20
	_ GR(VIRES	S INCLUDED	IN
	ERENC		RAWING	S:		
C			JMBER		DRAWING N	NUMBER
		1202				
		1203				
		1204				
		1205				
		1206				
		1207				
INTELI RIGHT PROPI INC. / RECOI OR U WITHO	Dential Lectual S here Erty O All Duf Rding, Se IS F Out Wri Ent Of	. Prop in Are f Tryl(plicatic disclo: prohibi tten	THE ON ON, SURE TED		К. Тгу Ing No. 59737.319	/lon
CUS	TOMEF	?:	S	ITE:	SHIRE PARISH	SCALE: 25.000
DATE			BY:			APP: ZA
TITLE		I				
		GR	UUNI	JIN(G DETAILS	



	REV.	BY: REV.	BY: CHK.		DES	CRIPTION	DATE
	A	MA	PS	ISSUE	FOR	APPROVAL	20 FEB 20
	В	НМ	MA	ISSUE	FOR	CONSTRUCTION	05 MAY 20
	REF	ERENC	E DI	RAWING	SS:		
	C	RAWIN	NG NU	JMBER		DRAWING N	NUMBER
Lg. GALV. ND ROD (TYP)							
	CONF	DENTIAL	· 411			•.	
	inteli Right Prop	LECTUAL S HERE ERTY O	. PROP IN ARE F TRYL(THE ON		Try	ylon
	RECO OR U WITHC	all Duf Rding, Se is f Nut Wri	disclo: Prohibi Tten	SURE - TED		• ING NO. 59737.319	.1202
	CUS	<u>ent of</u> tomef)V OF	?:	9	SITE:		SCALE: 30.000
	DATE	: 20 FEI		BY:			APP: ZA
	TITLE		GR	OUN	DIN	g details	



	REV.	BY: REV.	BY: CHK.	DE	SCRIPTION	DATE
	A	MA	PS	ISSUE FO	R APPROVAL	20 FEB 20
	в	НМ	MA	ISSUE FO	R CONSTRUCTION	05 MAY 20
RIDGE #90 G2G)	с	ON	MP		ACCORDING COMMENTS	15 MAY 20
	REF	ERENC	E DI	RAWINGS:	1	
		RAWI	NG NU	JMBER	DRAWING 1	NUMBER
	<u> </u>					
	-					
	<u> </u>					
	INTEL RIGHT PROP INC. A RECO OR U WITHO	s here Erty o All dui Rding, Se is f Dut wri	_ PROP (IN ARE) F TRYL(PLICATIC DISCLO PROHIBI	THE DN DN, SURE TED 1	Жілс No. 59737.319	/lon .1203
	CUS	TOMEF		SITE	: DNSHIRE PARISH	SCALE: 30.000
	—	20 FEI	B 20	BY: MA	CHK: PS	APP: ZA
	TITLE	:	GR	OUNDIN	NG DETAILS	
	1					

	LOCATION	FORMULA	LENGTH OF WIRE
			2/0 TINNED COPPER
BELOW GRADE	TOWER LOOP	(FACE WIDTH x 3) + ((((PIER DIA. + 10') x 3.1415)	218'
BELOW GRADE	TOWER LOOP TO SHELTER LOOP	(DISTANCE + 10') x N. OF LOCATIONS	65'
BELOW GRADE	TOWER LEAD	15' x No. OF LOCATIONS	45'
BELOW GRADE	WGB LEAD	15' x No. OF LOCATIONS	120'
		SUB TOTAL	448'
		GRAND TOTAL (ADD 5% TO SUB TOTAL)	470'[143.4M]

F	REV.	BY: REV.	BY: CHK.		DES	CRIPTION		DATE	
	A	MA	PS	ISSUE	FOR	APPROVAL	20	FEB	20
	в	НМ	MA	ISSUE	FOR	CONSTRUCTION	05	MAY	20
-	1			I					
_									
						DRAWING N	11114		
-						DIXAWING			
-									
-									
-									
-									
-									
		DENTIAL FCTUAI	.: ALL . PROP	FRTY	•				
F	right: Propi Inc. <i>A</i>	s here Erty oi NLL Dui	in are f tryl(plicatic	THE ON ON,	•	Try		0	n
F	Recof Or U: Witho	RDING, SE IS F UT WRI	disclo: Prohibi Tten	SURE TED		инд но. 59737.319	10	204	
	CUST	IOMEF	TRYLO R: BERM	5	SITE:			LE:)00
		20 FE		BY: M	A	Снк: PS	٩PP	: ZA	
	TITLE (UND	WIF	<u>E</u> (CUTTING C	HA	RT	

- 1) ALL GROUND WIRE TO BE 2/0 TINNED STRANDED COPPER WIRE.
- 2) ALL GROUND RODS ARE TO BE PLACED A MINIMUM OF 5'-0" AND MAXIMUM OF 7'-0" FROM THE TOWER BASE.
- 3) ALL GROUND RODS TO BE 5/8"\$ x 10'-0" Lg. GALVANIZED STEEL.
- 4) GROUND WIRE TO BE BURIED 1'-O" BELOW GROUND SURFACE.
- 5) ALL GROUNDING CONNECTIONS ARE TO BE CLEAN AND FREE OF PAINT AT THEIR MATING SURFACES.
- 6) GROUNDING WIRES MUST ALWAYS BE CONTINUOUS AND TRAVEL IN A "DOWNWARD" DIRECTION FREE FROM SHARP BENDS OR SUDDEN CHANGES IN DIRECTIONS.
- 7) IDEAL SITE GROUNDING SYSTEM RESISTANCE = 5 OHMS (MAXIMUM OF 50 OHMS).

REV.	BY: REV.	BY: CHK.		DES	CRIPTION		DATE	
A	MA	PS	ISSUE	FOR	APPROVAL	20	FEB	20
в	НМ	MA	ISSUE	FOR	CONSTRUCTION	05	MAY	20
			1					
RFF	ERENC	וח E	RAWING	S:				
			JMBER		DRAWING N	IUM	IBER	
INTELI RIGHT	S HERE	.: All PROP IN ARE F TRYL(THE		Try	/	0	n
INC. / RECO OR U	ALL DUI RDING, SE IS F	PLICATIO DISCLO PROHIBI)n, Sure –		ÍNG NO.			
CONS	TOMEF	TRYLO	5	SITE:	59737.319	.12 sca	LE:	000
DATE	: 20 FEI		BY:			APP		
TITLE	:	GF	ROUN	IDIN	IG NOTES			

BILL OF MATERIAL REPORT

Job Number :159737-Tower Supply, 220ft Tapered KDSS / Painted

<u>LotID</u>	<u>Part ID</u>	<u>Rev</u>	Description	<u>Ext Qty</u>	<u>UM</u>	Ext Weight	<u>UM</u>
1	9.906.1		BELOW GRADE FOUNDATION MATE	RIAL			
	3.906.0509.007	В	FOUNDATION PLATE (18-2" TIE ROD)	3	EA	77.70	LB
	4.906.9000.603		2" X 72" HIGH TENS TIE ROD ASS'Y	18	EA		
	3.906.9000.603	B8S HI 90 KSI	2" X 72" HIGH TENS TIE ROD FULL THD GH TENSILE TIE RODS YIELD MIN. I ULTIMATE MIN. GALV.	18	EA	1065.60	LB
	1202190		2" A563 DH HEX NUT (6 T.P.I.) - HDG	90	EA	251.46	LB
	1202221		2" F-436 FLAT WASHER - HDG	36	EA	13.46	LB
			Page Sub Total W	/eight (not 5.)	1,408	.22	
			Page Sub Total W	/eight (5.)	0	.00	
			Page Sub Total W	/eight	1,408	.22	

<u>LotID</u>	Part ID	<u>Rev</u>	Description	Ext Qty	UM	Ext Weight	<u>UM</u>
1	9.909.1		FOUNDATION TEMPLATE MATERIAL				
	4.909.0250.001		SA19.0026 - (12) 2" TIE RODS SECTION /16" c/c PIERS FIED	1	EA		
	3.909.0162.020	С	TEMPLATE (18-2" TIE ROD)	3	EA	91.80	LB
	3.909.0162.200	А	TEMPLATE SPLICE ANGLE	6	EA	30.60	LB
	3.909.0162.125	А	TEMPLATE ANGLE (V8" - 26' SECTION)	9	EA	189.00	LB
	1201132		1/2" X 1-1/2"HEX HEAD BOLT GR.5-HDG RACK	38	EA	4.67	LB
	1201120		1/2" HEX NUT GR. 5 - HDG RACK	38	EA	1.36	LB
	1201121		1/2" LOCK WASHER GR. 5 - HDG RACK	38	EA	0.38	LB
			Page Sub Total Weight (not 5.)	317	.82	
			Page Sub Total Weight (5.)	0	.00	
			Page Sub Total Weight		317	.82	

<u>LotID</u>	Part ID	Rev	Description		<u>Ext Qty</u>	<u>UM</u>	Ext Weight	<u>UM</u>
1 9	9.912.1		BELOW GRADE GRO	UNDING MATERIAL				
	4.91.0103.004		BASIC EIA GROUNDING		1	EA		
	3.912.0006.002	MODIF A	5/8" X 10' GROUND ROD		3	EA	31.50	LB
	1301201		2/0 TINNED S.C.WIRE		108	М	145.80	LB
	1303030		GAR 6426 BURNDY		3	EA	1.85	LB
	1302023		#90 CADWELD CARTRIDGE		4	EA	0.86	LB
	1302022	ORDEI BURNI	#65 CADWELD CARTRIDGE R IN QTY'S OF 20 DY		4	EA	0.60	LB
	1301201		2/0 TINNED S.C.WIRE		35	Μ	47.25	LB
				Page Sub Total Weight (not s	5.)	227	.86	
				Page Sub Total Weight (5.)		0	.00	
				Page Sub Total Weight		227	.86	

LotID Part ID		Rev Description Ext	Qty	<u>UM</u>	Ext Weight	<u>UM</u>
1	9.963.1	MISC. MATERIALS - BELOW GRADE				
	9.963.2	CIVIL INSTALLATION DRAWINGS	1	EA		
		Page Sub Total Weight (not 5.)		0.0	00	
		Page Sub Total Weight (5.)		0.0	00	

Page Sub Total Weight

0.00