FEED FROM: Utility Transformer ; 45'
Free space: 29 (69%)
Date/Time: 10/9/2014 10:48:26 AM

PANELBOARD 'SAMPLE480'

SERVICE: 277-480V/3Ph/4W

CONDUIT SIZE	CONDUCTORS (AWG OR MCM) Ø	N	G	LOAD SERVED	C.B. AMP	KVA LOAD	CKT #	SOLID NEUTRAL A Ø | B Ø | C Ø	CKT #	KVA LOAD	C.B. AMP	LOAD SERVED	CONDUCTORS (AWG OR MCM) Ø	N	G	CONDUIT SIZE
3/4"	8	8	10	VAV-104	40	10	1		2	1.3	20	VAV-101	12			
	12						3		4	1.3	20	VAV-102	12	12	12	3/4"
3/4"	12		12	AC-1	20	9.99	5		6	1.3	20	VAV-103	12			
	12						7		8			SPACE ONLY				
				SPACE ONLY			9		10			SPACE ONLY				
				SPACE ONLY			11		12			SPACE ONLY				
				SPARE	20		13		14		20	SPARE				
				SPARE	20		15		16		20	SPARE				
				SPARE	20		17		18		20	SPARE				
				SPARE	20		19		20		20	SPARE				
				SPARE	20		21		22		20	SPARE				
				SPARE	20		23		24		20	SPARE				
				SPARE	20		25		26		20	SPARE				
				SPARE	20		27		28		20	SPARE				
				SPARE	20		29		30		20	SPARE				
				SPARE	20		31		32		20	SPARE				
				SPARE	20		33		34		20	SPARE				
				SPARE	20		35		36		20	SPARE				
							37		38							
SEE RISER DIAGRAM				XFMR T1STFLR	70	26.46	39		40	3.9	225	PANEL 2NDFLR480	SEE RISER DIAGRAM			
							41		42							

225A MINIMUM BUS RATING
4301.73 MINIMUM A/C RATING @ 45'
225A MAIN C.B. RATING
SURFACE MOUNTED
SOLID NEUTRAL
NEMA 1 / DISTRIBUTION

PANELBOARD NOTES:

CONNECTED LOAD	KW	AMPS
Aø	26.22	94.64
Bø	15.26	55.09
Cø	12.77	46.11
TOTAL:	54.25	65.25

1/2	12	12	12	RECEPTACLE CR 1204 | 20 | 1/2
	12			RECEPTACLE CR 1204 | 20 | 1/2
	12			RECEPTACLE CR 1204 | 20 | 1/2

WHEN SHARED NEUTRALS OCCUR, PROVIDE EACH BRANCH CIRCUIT BREAKER FEEDING A MULTIWIRE BRANCH CIRCUIT WITH AN APPROVED HANDLE TIE DEVICE AS REQUIRED TO DISCONNECT ALL UNGROUNDED CONDUCTORS PER THE REQUIRMENTS OF 2008 NEC 210.4(B). PROVIDE MULTI-POLE HANDLE TIE DEVICES AS REQUIRED. SEE PANEL SCHEDULES FOR QUANTITIES OF MULTIWIRE BRANCH CIRCUITS.

A MESSAGE SIMILAR TO THIS SHOULD BE PLACED AT THE BOTTOM OF SCHEDULE SHEET TO EXPLAIN SHARED NEUTRAL CIRCUITS.
NOT INCLUDED WITH EPS.

EPS SCHEDULES EXPORT
AUTOCAD AND EXCEL
edited: APR 2016
DESIGNERS GUIDE

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EPS will export to AutoCAD in the Pro version only → AUTOCAD

EXCEL

EPS will only export a panel schedule in the Lite version only. The other schedules shown here represent some of the export options but data may be also be exported to PDF and HTML.

Within Electrical Panelboard Scheduler there are switches for showing many of export output options. The schedule shown is default switch options. Load, wire, riser elements wire, panel notes can also be included and remain till change by user preference.

PANEL 4LA WIRE CALCS

Voltage drop was calculated using the formula found in 2005 NEC®, Handbook, Chapter 9, Example 2 per foot. Zc= (R x cosΘ)+ (X x sinΘ). Conduit fill is based on 2005 NEC® 310-15.

Feeder calcs:

Voltage Drop = (25), (0.088-05Ohms x 0.95pf)+ (X 1E-05Ω x 0.31224990) = 7.05E-05
7.05E-05 x (25 x 1.1/1 x 231.22168680497) = 0.4079 volts loss to neutral = 0.706% volts loss to line Volts / 0.3397%
Voltage Drop to utilize= (120), 0.82952286%
Conduit fill = 40% Fill

Ckt#		Ckt#	
1	Voltage Drop = (90), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill	2	Voltage Drop = (90), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill
3	Voltage Drop = (90), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill	4	Voltage Drop = (90), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill
5	Voltage Drop = (90), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill	6	Voltage Drop = (90), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill
7	Voltage Drop = (90), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill	8	Voltage Drop = (100'), 2.4529 Volts / 2.0441% Conduit fill = 18.3% Fill
9	Voltage Drop = (90), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill	10	Voltage Drop = (100'), 2.4529 Volts / 2.0441% Conduit fill = 18.3% Fill
11	Voltage Drop = (90), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill	12	Voltage Drop = (100'), 3.8955 Volts / 3.2463% Conduit fill = 18.3% Fill
13	Voltage Drop = (90), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill	14	Voltage Drop = (105'), 2.5755 Volts / 2.1463% Conduit fill = 18.3% Fill
15	Voltage Drop = (90'), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill	16	Voltage Drop = (105'), 2.5755 Volts / 2.1463% Conduit fill = 18.3% Fill
17	Voltage Drop = (90'), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill	18	Voltage Drop = (105'), 2.5755 Volts / 2.1463% Conduit fill = 18.3% Fill
19	Voltage Drop = (80'), 3.1164 Volts / 2.597% Conduit fill = 12.5% Fill	20	Voltage Drop = (130'), 3.1887 Volts / 2.6573% Conduit fill = 18.3% Fill
21	Voltage Drop = (80'), 3.1164 Volts / 2.597% Conduit fill = 12.5% Fill	22	Voltage Drop = (130'), 3.1887 Volts / 2.6573% Conduit fill = 18.3% Fill
23	Voltage Drop = (80'), 3.1164 Volts / 2.597% Conduit fill = 12.5% Fill	24	Voltage Drop = (130'), 3.1887 Volts / 2.6573% Conduit fill = 18.3% Fill
25	Voltage Drop = (90'), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill	26	Voltage Drop = (105'), 2.5755 Volts / 2.1463% Conduit fill = 18.3% Fill
27	Voltage Drop = (90'), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill	28	Voltage Drop = (105'), 2.5755 Volts / 2.1463% Conduit fill = 18.3% Fill
29	Voltage Drop = (90'), 3.5059 Volts / 2.9216% Conduit fill = 12.5% Fill	30	Voltage Drop = (105'), 2.5755 Volts / 2.1463% Conduit fill = 18.3% Fill
31	Voltage Drop = (40'), 1.9477 Volts / 1.6231% Conduit fill = 10% Fill	32	
33	Voltage Drop = (40'), 1.9477 Volts / 1.6231% Conduit fill = 10% Fill	34	Voltage Drop = (175'), 4.2925 Volts / 3.5771% Conduit fill = 18.3% Fill
35	Voltage Drop = (75'), 2.2996 Volts / 1.9163% Conduit fill = 10.4% Fill	36	Voltage Drop = (135'), 3.3114 Volts / 2.7593% Conduit fill = 18.3% Fill
37		38	Voltage Drop = (125'), 3.0661 Volts / 2.5551% Conduit fill = 18.3% Fill
39		40	Voltage Drop = (50'), 1.9477 Volts / 1.6231% Conduit fill = 10% Fill
41		42	Voltage Drop = (50'), 1.9477 Volts / 1.6231% Conduit fill = 10% Fill

Panel Name: 4LA Section 1

Feed from: T4LA — Minimum AIC rating: 10K (Min: 2K)

Ckt	Wire	Neu	Grd	Description	CB	KW/C	Ckt#	Phase	Ckt#	KW/C	CB	Description	Wire	Neu	Grd	Ckt
	1#12			TENANT RECEPTACLE GRID /BOX	20	1.2	1	A	2	1.2	20	TENANT RECEPTACLE GRID /BOX	1#12			
3/4"	1#12	1#12	1#12	TENANT RECEPTACLE GRID /BOX	20	1.2	3	B	4	1.2	20	TENANT RECEPTACLE GRID /BOX	1#12	1#12	1#12	3/4"
	1#12			TENANT RECEPTACLE GRID /BOX	20	1.2	5	C	6	1.2	20	TENANT RECEPTACLE GRID /BOX	1#12			
	1#12			TENANT RECEPTACLE GRID /BOX	20	1.2	7	A	8	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10			
3/4"	1#12	1#12	1#12	TENANT RECEPTACLE GRID /BOX	20	1.2	9	B	10	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10	1#10	1#12	3/4"
	1#12			TENANT RECEPTACLE GRID /BOX	20	1.2	11	C	12	1.2	20	TENANT RECEPTACLE GRID /BOX	1#12			
	1#12			TENANT RECEPTACLE GRID /BOX	20	1.2	13	A	14	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10			
3/4"	1#12	1#12	1#12	TENANT RECEPTACLE GRID /BOX	20	1.2	15	B	16	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10	1#10	1#12	3/4"
	1#12			TENANT RECEPTACLE GRID /BOX	20	1.2	17	C	18	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10			
	1#12			TENANT RECEPTACLE GRID /BOX	20	1.2	19	A	20	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10			
3/4"	1#12	1#12	1#12	TENANT RECEPTACLE GRID /BOX	20	1.2	21	B	22	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10	1#10	1#12	3/4"
	1#12			TENANT RECEPTACLE GRID /BOX	20	1.2	23	C	24	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10			
	1#12			TENANT RECEPTACLE GRID /BOX	20	1.2	25	A	26	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10			
3/4"	1#12	1#12	1#12	TENANT RECEPTACLE GRID /BOX	20	1.2	27	B	28	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10	1#10	1#12	3/4"
	1#12			TENANT RECEPTACLE GRID /BOX	20	1.2	29	C	30	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10			
	1#10			TENANT RECEPTACLE GRID /BOX	20	1.2	31	A	32	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10			
3/4"	1#10	1#10	1#12	TENANT RECEPTACLE GRID /BOX	20	1.2	33	B	34	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10	1#10	1#12	3/4"
	1#10			TENANT RECEPTACLE GRID /BOX	20	1.2	35	C	36	1.2	20	TENANT RECEPTACLE GRID /BOX	1#10			
				SPARE	20		37	A	38		20	SPARE				
				SPARE	20		39	B	40		20	SPARE				
				SPARE	20		41	C	42		20	SPARE				
				SPARE	20		43	A	44		20	SPARE				
				SPARE	20		45	B	46		20	SPARE				
				SPARE	20		47	C	48	1	20	EF	1#12	1#12	1#12	3/4"
							49	A	50	1	20	HEAT TRACE	1#12	1#12	1#12	3/4"
3/4"	3#12		1#12	WH-03	20	3.99	51	B	52	1	20	MECHANICAL CONTROLS	1#12	1#12	1#12	3/4"
	3#12						53	C	54	1	20	MECHANICAL CONTROLS	1#12	1#12	1#12	3/4"

Minimum AIC rating shall be increased if minimum wire length shown is decreased.
* - A shared neutral circuit was specified so a multipole breaker or separate neutrals must be used to disconnect it. Refer to 2008 NEC 210.4(B).

Voltage: 120-208V/3Ph/4W/60Hz — Main Feeder: 3#4/0
Bus Amps: 225 Amps — Main Neutral: 1#4/0
Main breaker: 225 Amps — Main Ground: 1#4
Type: Branch Circuits — Feeder types: Copper, THHN, EMT
Mounting: Surface
Nema: 1 - Distribution
System: Normal

Connected Loads	KW		Amps
Phase A:	26.69		128.13
Phase B:	27.99		133.9
Phase C:	28.85		138.71
Total:	83.3		400.79

Horizon Materials list

Item	Type	Size
Conduit	EMT	3/4
Conduit	EMT	1
Conduit	EMT	1-1/4
Conduit	EMT	1-1/2
Conduit	EMT	2
Conduit	EMT	2-1/2
Conduit	EMT	3
Conduit	EMT	4
Copper Wire	THHN	12
Copper Wire	THHN	10
Copper Wire	THHN	8
Copper Wire	THHN	6
Copper Wire	THHN	4
Copper Wire	THHN	3
Copper Wire	THHN	1
Copper Wire	THHN	1/0
Copper Wire	THHN	2/0
Copper Wire	THHN	3/0
Copper Wire	THHN	4/0
Copper Wire	THHN	350MCM
Copper Wire	THHN	500MCM
Electrode	BARE	2
Electrode	BARE	1/0
Electrode	BARE	2/0
Electrode	BARE	3/0

Project Horizon Riser

Total square footage = 0 SqFt

Note: All calculations for AIC and voltage drops are based on routing conduit and wire to lengths indicated. Any change in these lengths will modify the entire branch. Decreasing length of feeder shown will increase AIC rating and decrease voltage drop.

Main Power Source: Utility Transformer

AIC Available	Utility Source	Distribution	Branch Panelboards					
46263.4A	Utility Transformer							
43460.29A		MSB						
0A (P/S) 6491.96A			T1LA					
5957.24A				1LA				
5958A				1LB (FUTURE)				
30389.2A			1HA					
35978.25A			1HB					
37492.05A			2HDP					
0A (P/S) 5995.65A				T2LA				
5536.61A					2LA			
27345.36A				2HA				
31789.02A				2HB				
35083.13A			3HDP					
0A (P/S) 5967.25A				T3LA				
5512.38A					3LA			
26041.19A				3HA				
30040.12A				3HB				
32965.08A			4HDP					
0A (P/S) 5939.13A				T4LA				
5488.37A					4LA			
24855.76A				4HA				
28473.62A				4HB				
31088.21A			5HDP					

Project load summary

Load Type	Connected Load (KW)	Demand factor	Demand Load (KW)
First 10KW Recept.	10	100	10
Remaining Receptacles	347	50	173.5
Interior Cont. Lighting	169.5	125	211.875
Exterior Lighting	3	125	3.75
Air Handling HVAC	955.4	100	955.4
Condensors HVAC	166.44	100	166.44
Heat Load	124	125	155
Water Heater	11.997	125	14.996
Connected Motor	121.278	100	121.278
Power Feed	26	100	26
Miscellaneous	.5	100	.5
Other Loads	10	100	10
Aø	682.372		658.982
Bø	651.472		624.849

Transformer Schedule

Transformer Name	KVA Rating (KVA)	Gnd. Cond.	Specs	Input/Output Voltage Rated amps/OCP	X/R Ratio	Feed from /Distance	Serving Panel(s)
T1LA	112.5	1#2/0	Ventilated Rise: 115°C Kfactor: 1.0	Primary: 277-480V/3Ø/Wye 135.32A/175A OCP Secondary: 120-208V/3Ø/Delta 312.28A/400A OCP	1.441	MSB-26,28,30 25'/85'	1LA 1LB (FUTURE)
T2LA	75	1#2/0	Ventilated Rise: 115°C Kfactor: 1.0	Primary: 277-480V/3Ø/Delta 90.21A/125A OCP Secondary: 120-208V/3Ø/Wye 208.18A/300A OCP	.872	2HDP-25,27,29 25'/125'	2LA
T3LA	75	1#2/0	Ventilated Rise: 115°C Kfactor: 1.0	Primary: 277-480V/3Ø/Delta 90.21A/125A OCP Secondary: 120-208V/3Ø/Wye 208.18A/300A OCP	.872	3HDP-25,27,29 25'/145'	3LA
T4LA	75	1#2/0	Ventilated Rise: 115°C Kfactor: 1.0	Primary: 277-480V/3Ø/Delta 90.21A/125A OCP Secondary: 120-208V/3Ø/Wye 208.18A/300A OCP	.872	4HDP-25,27,29 25'/165'	4LA
T5LA	75	1#2/0	Ventilated Rise: 115°C Kfactor: 1.0	Primary: 277-480V/3Ø/Delta 90.21A/125A OCP Secondary: 120-208V/3Ø/Wye 208.18A/300A OCP	.872	5HDP-25,27,29 25'/185'	5LA
TXE4LA	30	1#2	Ventilated Rise: 115°C Kfactor: 1.0	Primary: 277-480V/3Ø/Delta 36.09A/50A OCP Secondary: 120-208V/3Ø/Wye 83.28A/110A OCP	.544	XE4HA-38,40,42 25'/295'	XE4LA
TXELLA	30	1#2	Ventilated Rise: 115°C Kfactor: 1.0	Primary: 277-480V/3Ø/Delta 36.09A/50A OCP Secondary: 120-208V/3Ø/Wye 83.28A/110A OCP	.544	XELHA-30,32,34 25'/265'	XELLA
TXO1LA	30	1#2	Ventilated Rise: 115°C Kfactor: 1.0	Primary: 277-480V/3Ø/Delta 36.09A/50A OCP Secondary: 120-208V/3Ø/Wye 83.28A/110A OCP	.544	XO4HA-2,4,6 25'/345'	XO4LA
TXO1LA	30	1#2	Ventilated Rise: 115°C Kfactor: 1.0	Primary: 277-480V/3Ø/Delta 36.09A/50A OCP Secondary: 120-208V/3Ø/Wye 83.28A/110A OCP	.544	XO1HA-38,40,42 25'/265'	XO1LA

NOTE 1. ALL TRANSFORMERS TO BE NEMA TP-1-2002 COMPLIANT.

4LA Circuit Details List

Circuit #	Phase	Group	Breaker	Type Breaker	parallel run	Distance	Conduit/Wire	Wire insulatio	Type load	Diversity	Description	ground require	neutral requi	circuit locke	solated grou	Conduit type	Conduit fill	duit percent	Voltage dr					
1	A	SN	1P/20A/120V		1	90	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.5059					
3	B	SN	1P/20A/120V		1	90	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.5059					
5	C	SN	1P/20A/120V		1	90	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.5059					
7	A	SN	1P/20A/120V		1	90	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.5059					
9	B	SN	1P/20A/120V		1	90	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.5059					
11	C	SN	1P/20A/120V		1	90	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.5059					
13	A	SN	1P/20A/120V		1	90	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.5059					
15	B	SN	1P/20A/120V		1	90	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.5059	2.9216	(0.001.950ft	KW	1.2	0	10.526	1.2	1.2	0.95
17	C	SN	1P/20A/120V		1	90	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.5059	2.9216	(0.001.950ft	KW	1.2	0	10.526	1.2	1.2	0.95
19	A	SN	1P/20A/120V		1	80	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.1164	2.597	(0.001.950ft	KW	1.2	0	10.526	1.2	1.2	0.95
21	B	SN	1P/20A/120V		1	80	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.1164	2.597	(0.001.950ft	KW	1.2	0	10.526	1.2	1.2	0.95
23	C	SN	1P/20A/120V		1	80	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.1164	2.597	(0.001.950ft	KW	1.2	0	10.526	1.2	1.2	0.95
25	A	SN	1P/20A/120V		1	90	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.5059	2.9216	(0.001.950ft	KW	1.2	0	10.526	1.2	1.2	0.95
27	B	SN	1P/20A/120V		1	90	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.5059	2.9216	(0.001.950ft	KW	1.2	0	10.526	1.2	1.2	0.95
29	C	SN	1P/20A/120V		1	90	th (2)#12 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	False	False	EMT	65sq.in. for w	12.5	3.5059	2.9216	(0.001.950ft	KW	1.2	0	10.526	1.2	1.2	0.95
31	A	SN	1P/20A/120V		1	40	th (2)#12 & (1	THHN	Receptacles	100	COOLER RECE	True	True	False	False	EMT	32sq.in. for w	10	1.9477	1.6231	(0.001.950ft	KW	1.5	0	13.158	1.5	1.5	0.95
33	B	SN	1P/20A/120V		1	40	th (2)#12 & (1	THHN	Receptacles	100	COOLER RECE	True	True	False	False	EMT	32sq.in. for w	10	1.9477	1.6231	(0.001.950ft	KW	1.5	0	13.158	1.5	1.5	0.95
35	C		1P/20A/120V		1	75	th (2)#10 & (1	THHN	Receptacles	100	COOLER RECE	True	True	True	False	EMT	55sq.in. for w	10.4	2.2996	1.9163	(0.001.210ft	KW	1.5	0	13.158	1.5	1.5	0.95
37	A	3P	3P/100A/208						Spare		SPARE															
39	B	3P	3P/100A/208						Spare		SPARE															
41	C	3P	3P/100A/208						Spare		SPARE															
43	A	SN	1P/20A/120V		1	100	th (2)#10 & (1	THHN	Receptacles	100	RECEPTACLE G	True	True	True	False	EMT	77sq.in. for w	18.3	2.4529	2.0441	(0.001.210ft	KW	1.2	0	10.526	1.2	1.2	0.95