

LEGEND

Sig. - Signal Cable
 Ped. - Pedestrian Signal and Push Button Cable
 St. Lt. - Street Light Cable
 GRS - Galvanized Rigid Steel Conduit
 Video - Video Cable
 Int. - Interconnect Cable
 R.R. Int. - Railroad Interconnect Cable
 Grnd. - Ground Wire
 Power - Power Cable

3" GRS Conduit
 2 - 7c (Sig.)
 2 - 5c (Ped.)
 1 - Coax. (Video)
 1 - 3c (Video)
 1 - 3 Pair #16 (Int.)
 1 - 1c #6 (Grnd.)

3" GRS Conduit
 2 - 7c (Sig.)
 1 - 2c (Sig.)
 2 - 5c (Ped.)
 1 - Coax. (Video)
 1 - 3c (Video)
 1 - 1c #6 (Grnd.)

4" GRS Conduit
 4 - 7c (Sig.)
 1 - 2c (Sig.)
 4 - 5c (Ped.)
 2 - Coax. (Video)
 2 - 3c (Video)
 1 - 3 Pair #16 (Int.)
 1 - 1c #6 (Grnd.)

3" GRS Conduit
 2 - 7c (Sig.)
 2 - 5c (Ped.)
 1 - Coax. (Video)
 1 - 3c (Video)
 1 - 1c #6 (Grnd.)

3" GRS Conduit (Railroad Signal)
 Wiring not shown
 1 - 5c (Sig.)
 1 - Coax. (Video)
 1 - 3c (Video)
 1 - 1c #6 (Grnd.)

2" GRS Conduit
 1 - 3 Pair #16 (Int.)
 1 - 1c #6 (Grnd.)

3" GRS Conduit
 2 - 7c (Sig.)
 2 - 5c (Ped.)
 1 - Coax. (Video)
 1 - 3c (Video)
 1 - 1c #6 (Grnd.)

2 - 4" GRS Cond.
 8 - 7c (Sig.)
 1 - 5c (Sig.)
 2 - 2c (Sig.)
 1 - 5c (Ped.)
 1 - Coax. (Video)
 5 - 3c (Video)
 1 - 3 Pair #16 (Int.)
 1 - 1c #6 (Grnd.)

3" GRS Conduit
 1 - 5c (Sig.)
 1 - Coax. (Video)
 1 - 3c (Video)
 1 - 1c #6 (Grnd.)

3" GRS Conduit
 2 - 7c (Sig.)
 2 - 5c (Ped.)
 1 - 2c (Sig.)
 1 - Coax. (Video)
 1 - 3c (Video)
 1 - 1c #6 (Grnd.)

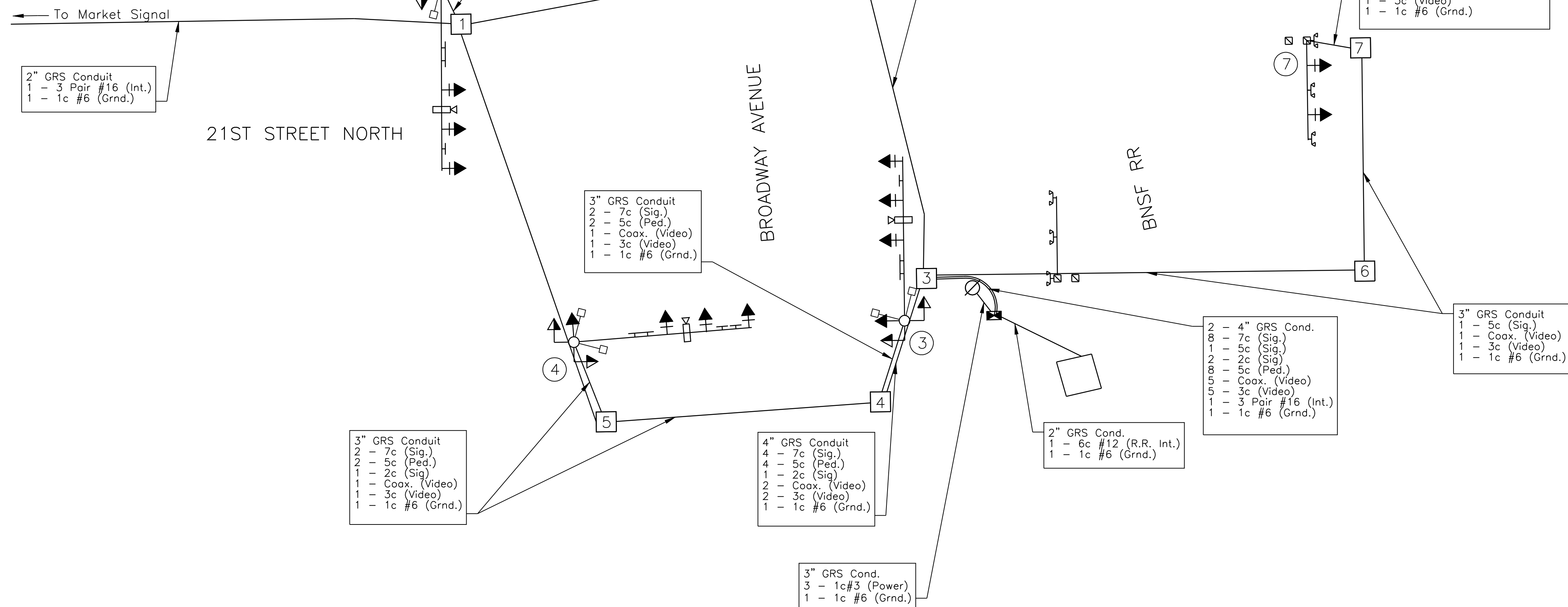
4" GRS Conduit
 4 - 7c (Sig.)
 4 - 5c (Ped.)
 1 - 2c (Sig.)
 2 - Coax. (Video)
 2 - 3c (Video)
 1 - 1c #6 (Grnd.)

2" GRS Cond.
 1 - 6c #12 (R.R. Int.)
 1 - 1c #6 (Grnd.)

3" GRS Cond.
 3 - 1c #3 (Power)
 1 - 1c #6 (Grnd.)

- Notes:
- The Contractor shall Coordinate the Power Hookup with Westar Energy.
 - 1c ground wire, shall be No. 6 AWG bare solid copper wire of type ASTM B-3.
 - All Conductors shall be # 14 AWG unless otherwise indicated.
 - All conduit shall be GRS except where required by the utilities or railroad where utility or railroad requirements dictate conduit type.
 - Street Light Cable will be ran separate from signal cable to each pole. Two 1" Conduits shall be stubbed out of pole base for connection to lighting circuit. 2-3c #12 wires shall be ran from luminaires to terminal block in pole base. See lighting sheets for more information.

DATE	
BY	
REFERENCES NOTED	
REFERENCES CHECKED	



DETECTOR SUMMARY											
DETECTOR NUMBER	LOOP OR DETECTION ZONE SIZE	VIDEO DETECTION	MICROWAVE DETECTION	INDUCTIVE LOOP (3 TURNS)	TIMINGS (SEC)		MODE		PHASE CALLED	NO. OF CHANNELS	COMMENTS
					STRETCH	DELAY	PULSE	PRESENCE			
11	6'x50'	X						X	1	1	
21, 22	6'x50'	X						X	2	2	
31	6'x50'	X				1.0		X	3	1	
41,42	6'x50'	X						X	4	2	
51	6'x50'	X				1.0		X	5	1	
61, 62	6'x50'	X						X	6	2	
63, 64	6'x50'	X						X	6	2	
71	6'x50'	X				1.0		X	7	1	
81, 82	6'x50'	X						X	8	2	

SUGGESTED TIMINGS (Sec.)							
PHASE	MINIMUM INITIAL	UNIT EXTENSION	MAXIMUM GREEN	PEDESTRIAN		CLEARANCE	
				WALK	FDW	YELLOW	ALL RED
1	9	1.0	15	---	---	4.0	2.0
2	9	1.0	40	7	13	4.0	2.0
3	9	1.0	20	---	---	4.0	2.0
4	9	1.0	30	7	10	4.0	2.0
5	9	1.0	20	---	---	4.0	2.0
6	9	1.0	32	7	13	4.0	2.0
7	9	1.0	40	---	---	4.0	2.0
8	9	1.0	30	7	10	4.0	2.0

OL A SHALL PROVIDE A 7.0 SECOND EXTENSION OF PHASE 6 EXCEPT DURING PREEMPTION WHEN ADDITIONAL CLEARANCE WILL BE PROVIDED. CLEARANCE TIME SPEED: 35 MPH

DURING NORMAL OPERATION PHASE 1 SHALL BE A LAGGING LEFT TURN PHASE; PHASE FIVE SHALL BE A LEADING LEFT TURN PHASE.

EMERGENCY FLASH	
PHASE	INDICATION
1	Red
2	Red
3	Red
4	Red
5	Red
6	Red
7	Red
8	Red
Pedestrian	Dark
Blank Out	Dark

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CITY OF WICHITA	
21ST STREET NORTH & BROADWAY AVENUE INTERSECTION	
WIRING DIAGRAM	
21ST STREET NORTH & BROADWAY AVENUE INTERSECTION	
WICHITA, KANSAS	
DESIGNED	DRAWN
M.D.B.	D.A.N.
CHECKED	DATE
B.A.L.	1/8/2010

