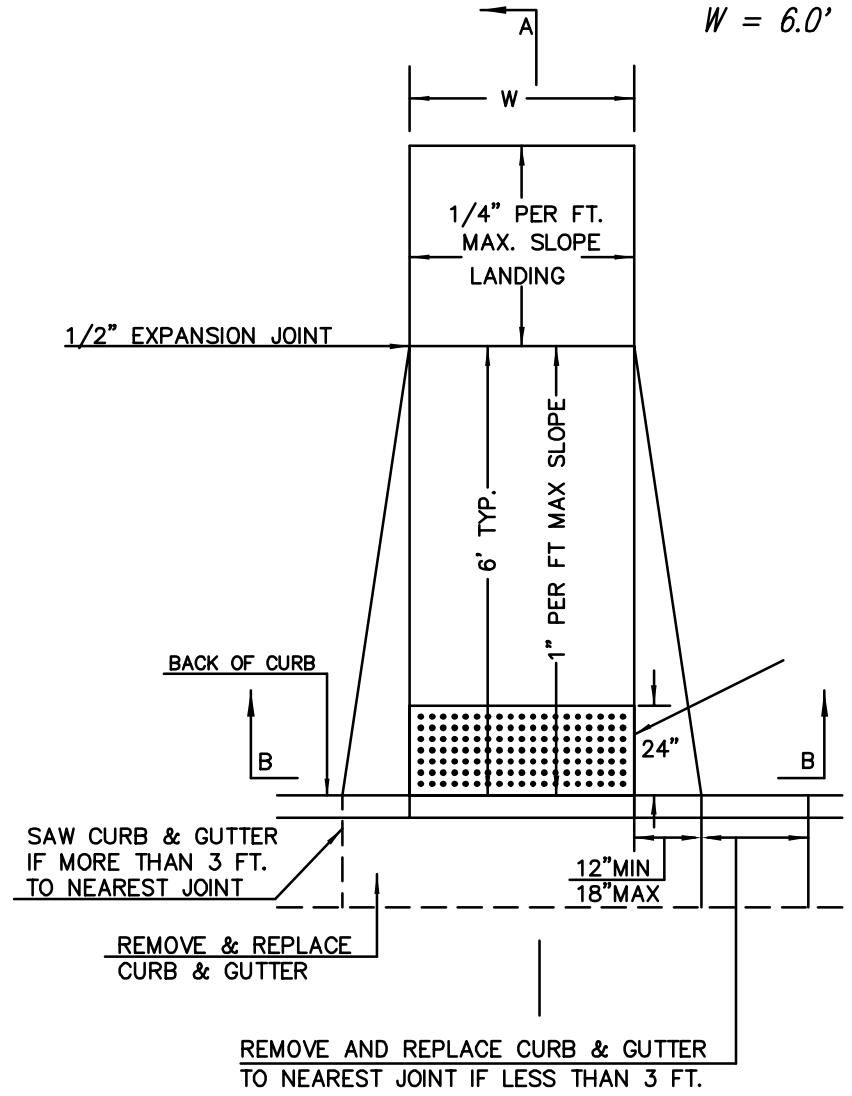
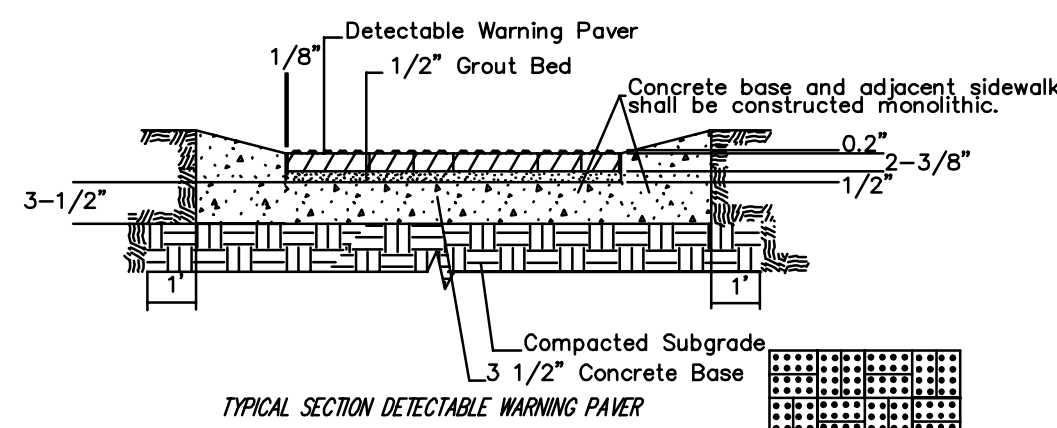


W= 4'0" FOR STANDARD RAMP
W= 5'0" FOR RAMPS AT SCHOOL CROSSWALKS
(OR TO MATCH EXISTING)

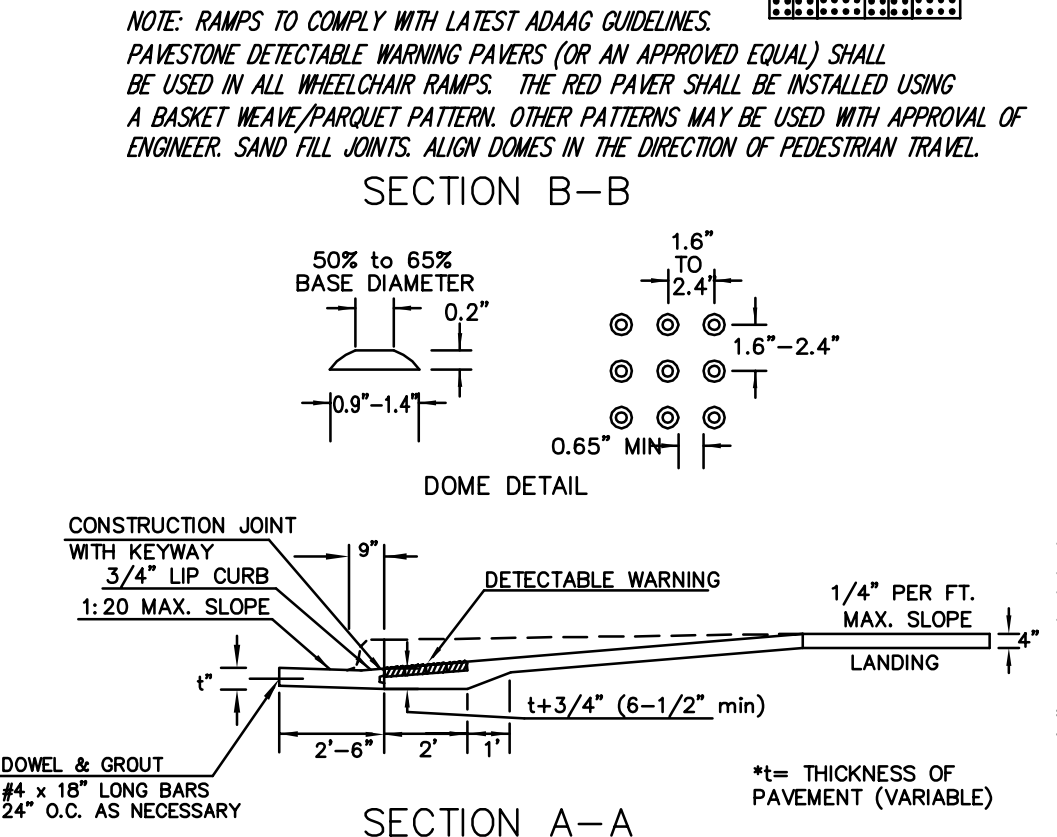
W = 6.0'



(TYPE A) STANDARD WHEELCHAIR RAMP
WITH DETECTABLE WARNING
CONSTRUCTION DETAIL FOR STREETS
WITH COMBINED CURB & GUTTER



SECTION B-B



SECTION A-A

D2-1

D2-2

D2-3

D2-4

D2-5

D2-6

D2-7

D2-8

D2-9

D2-10

D2-11

D2-12

D2-13

D2-14

D2-15

D2-16

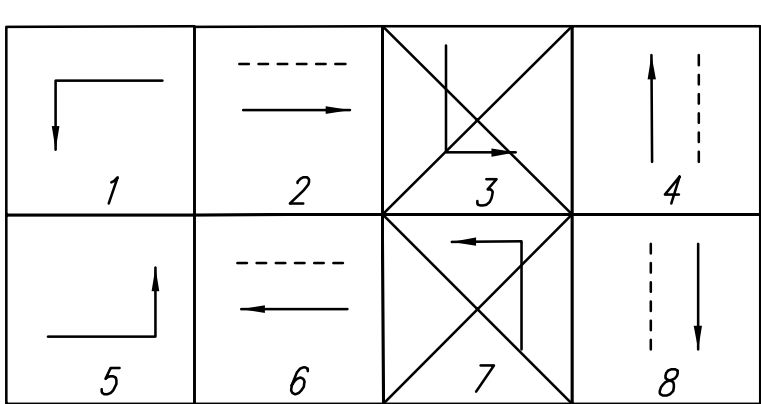
D2-17

D2-18

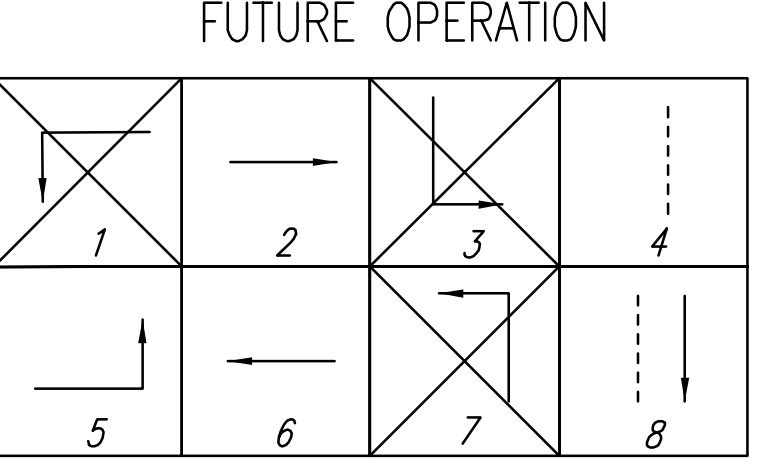
D2-19

D2-20

SIGNAL HEAD ARRANGEMENT



PHASE DIAGRAM FUTURE OPERATION



PHASE DIAGRAM INITIAL OPERATION



21ST STREET NORTH & REGENCY LAKES								
FUNCTION	PHASE							
	1	2	3	4	5	6	7	8
MAX. I	-	80	-	30	30	80	-	30
MAX. II/HFDW	-	80	-	30	30	80	-	30
WALK	-	-	-	8	-	8	-	8
FLASH DW	-	-	-	20	-	20	-	20
MAX. INITIAL	-	8.0	-	8.0	6.0	8.0	-	8.0
MIN. GREEN	-	10.0	-	10.0	5.0	10.0	-	10.0
T B R	-	25	-	-	1.0	25	-	-
T T R	-	15	-	-	1.0	15	-	-
OBSERVE GAP	-	-	-	-	-	-	-	-
PASSAGE	-	2.0	-	1.0	1.0	2.0	-	1.0
MIN. GAP	-	1.0	-	1.0	1.0	1.0	-	1.0
ADDED ACTUATION	-	2.0	-	2.0	1.0	2.0	-	2.0
YELLOW	-	4.0	-	3.5	3.0	4.0	-	3.5
RED CLEAR	-	2.0	-	2.0	1.0	2.0	-	2.0
RED REVERT	-	-	-	-	-	-	-	-
WALK II	-	-	-	-	-	-	-	-

The signal shall dwell green in #4 & #8.

FUNCTION TABLE								
FUNCTION	PHASE							
	1	2	3	4	5	6	7	8
VEHICLE RECALL	-	X	-	-	-	X	-	-
PED RECALL	-	-	-	-	-	-	-	-
RED LOCK	-	-	-	-	-	-	-	-
YELLOW LOCK	X	-	-	X	X	-	-	X
PERMIT	-	X	-	X	X	X	-	X
PED PHASES	-	X	-	X	-	X	-	X
LEAD PHASES	X	-	X	-	X	-	X	-
DOUBLE ENTRY	-	X	-	X	-	X	-	X
SEQUENTIAL TIMING	-	-	-	-	-	-	-	-
START-UP YELLOW	-	-	-	X	-	-	-	X
OVERLAP A	-	-	-	-	-	-	-	-
OVERLAP B	-	-	-	-	-	-	-	-
OVERLAP C	-	-	-	-	-	-	-	-
OVERLAP D	-	-	-	-	-	-	-	-
EXCLUSIVE	-	-	-	-	-	-	-	-
SIMULTANEOUS GAP	-	-	-	-	-	-	-	-

Function table reflects initial operation.

DETECTOR SUMMARY								
CAMERA NO.	DETECTION ZONE	MODE	SIZE (LxW)	PHASE CALLED	PHASE EXTENDED	DELAY/STRETCH TIMER	INITIAL SETTING (SEC.)	
2	D5-1	PRESENCE	60x6	5	5	-	-	
2	D2-1&2	PULSE	6x6	2	2	5	1.0	
2	D2-3&4	PULSE	6x6	2	2	5	1.0	
2	D2-5&6	PRESENCE	60x6	2	2	-	-	
3	D3-1	PRESENCE	60x6	3	3	5	5.0	
3	D3-2	PRESENCE	60x6	8	8	5	5.0	
4	D1-1	PRESENCE	60x6	1	1	-	-	
4	D6-1&2	PULSE	6x6	6	6	5	1.0	
4	D6-3&4	PULSE	6x6	6	6	5	1.0	
4	D6-5&6	PRESENCE	60x6	6	6	-	-	

FOR INITIAL OPERATION

Sta. 119+73.16 @ 21st St. N.=

Sta. 119+19.13 Install Traffic Signal Pole, 51.5' Lt. w/48' Mast Arm, See Sheet No. 4

Sta. 119+68.20 Install Traffic Signal Pole, 64.0' Rt. w/24' Mast Arm, See Sheet No. 4

Sta. 119+56.95 @ 21st St. N.=
Sta. 50+00 @ Entrance

Sta. 120+20.03 Install Traffic Signal Pole, 58.5' Lt. w/32' Mast Arm, See Sheet No. 4

Sta. 120+28.02 Install Traffic Signal Pole, 53.5' Rt. w/50' Mast Arm, See Sheet No. 4

Coordinate Wheelchair Ramp construction with site contractor. Existing Sidewalk removal by site contractor. Wheelchair Ramp construction to be considered subsidiary to Traffic Signal installation.

CONTROLLER DESCRIPTION

The Traffic Signal Controller shall comply with the requirements defined in the Specifications for a Type 170E Controller with 412b2 prom module and a 400 modem. It shall be furnished and installed with a Model 332 cabinet, 3-type 242 isolator units, 1 video detection unit, 10 switch packs, 2-type 204 flashers, 4 flash transfer relay, and a Model 210P conflict monitor MS or ECL. The Controller shall also be furnished with WAIKS Verson 58 or latest version of software developed by WAPITI MICRO SYSTEMS.

SCALE: 1"=20'

LEGEND

- Traffic Signal Pole with Mast Arm
- Traffic Signal Pedestal
- Traffic Signal Camera
- Luminaire with Arm
- Traffic Signal Head
- Traffic Signal Head with Backplate
- Pedestrian Signal Head
- Controller with pad
- Service Box
- D(PHASE)-# Detector Zone
- Detector Zone
- R10-12 Sign
- R12-12 Sign
- Conduit
- Signal Phase
- Signal Pole Reference Number
- Street Name Sign

SEE SHEET NO. 4 FOR WIRING DIAGRAM

Revision By Date

CITY OF WICHITA, KANSAS
JAMES L. ARMOUR, P.E. - ACTING CITY ENGINEER
21ST STREET NORTH AND REGENCY LAKES

TRAFFIC SIGNAL PLAN

CITY OF WICHITA PROJECT NO. 472-83954

Designed by BER Job No. 04106-001
Drawn by SAW Date MARCH 2004

City of Wichita Consultants, P.A.
1100 S. TOPEKA AVE., SUITE 1000, WICHITA, KANSAS 67202
316-262-2591 • FAX 316-262-3003

Sh. 3 of 8