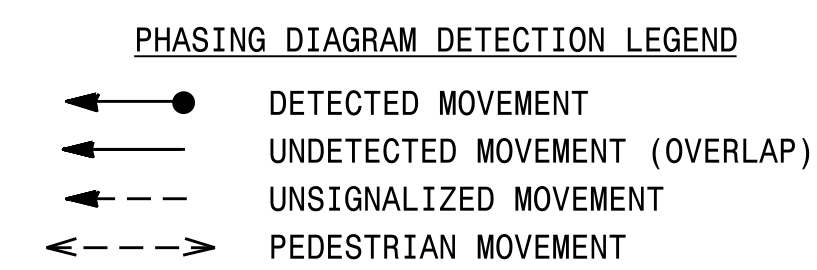
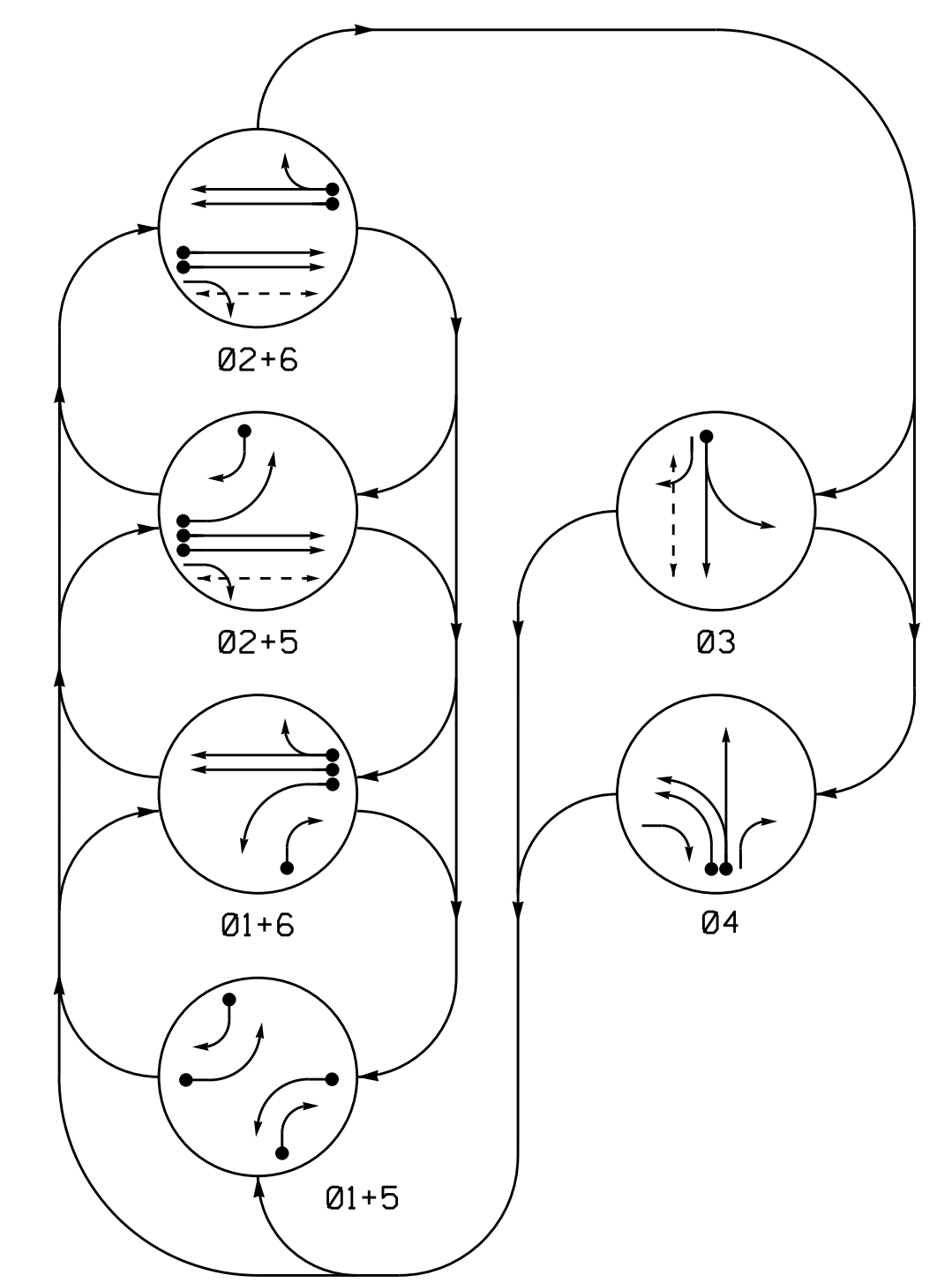


6 Phase Fully Actuated Asheville Signal System

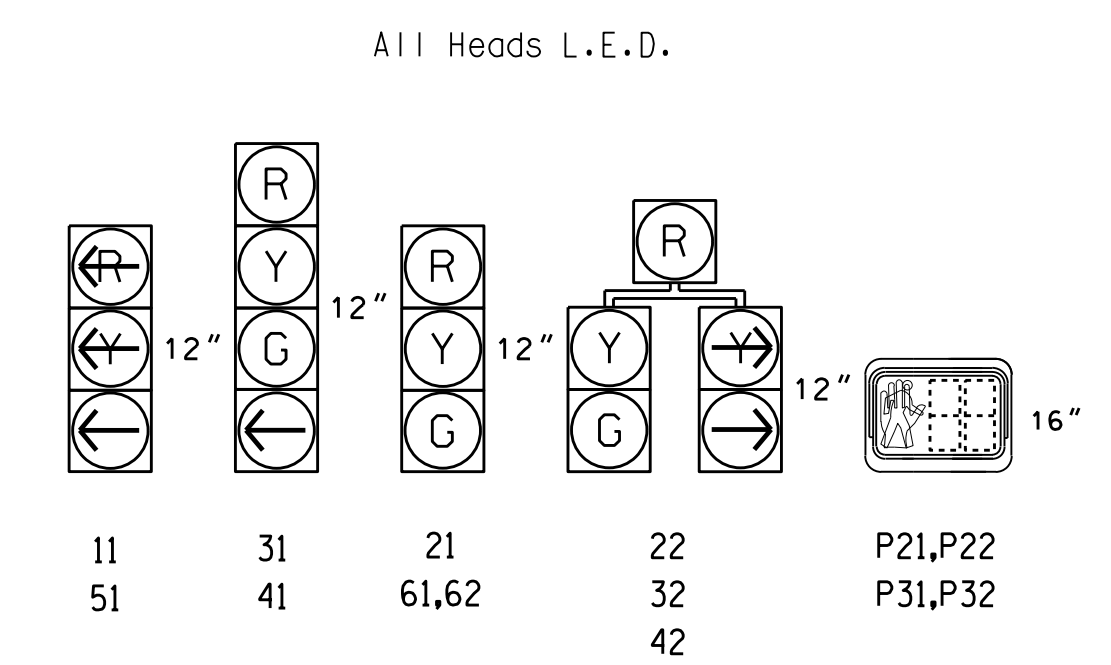
PHASING DIAGRAM



**TABLE OF OPERATION**

SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5	02+6	03	04	
11	---	---	---	---	---	---	---
21	R	R	G	G	R	R	Y
22	R	R	G	G	R	R	Y
31	R	R	R	R	G	R	R
32	R	R	R	R	G	R	R
41	R	R	R	R	G	R	R
42	R	R	R	R	G	R	R
51	---	---	---	---	---	---	---
61,62	R	G	R	G	R	R	Y
P21,P22	DW	DW	W	W	DW	DW	DRK
P31,P32	DW	DW	DW	DW	W	DW	DRK

SIGNAL FACE I.D.

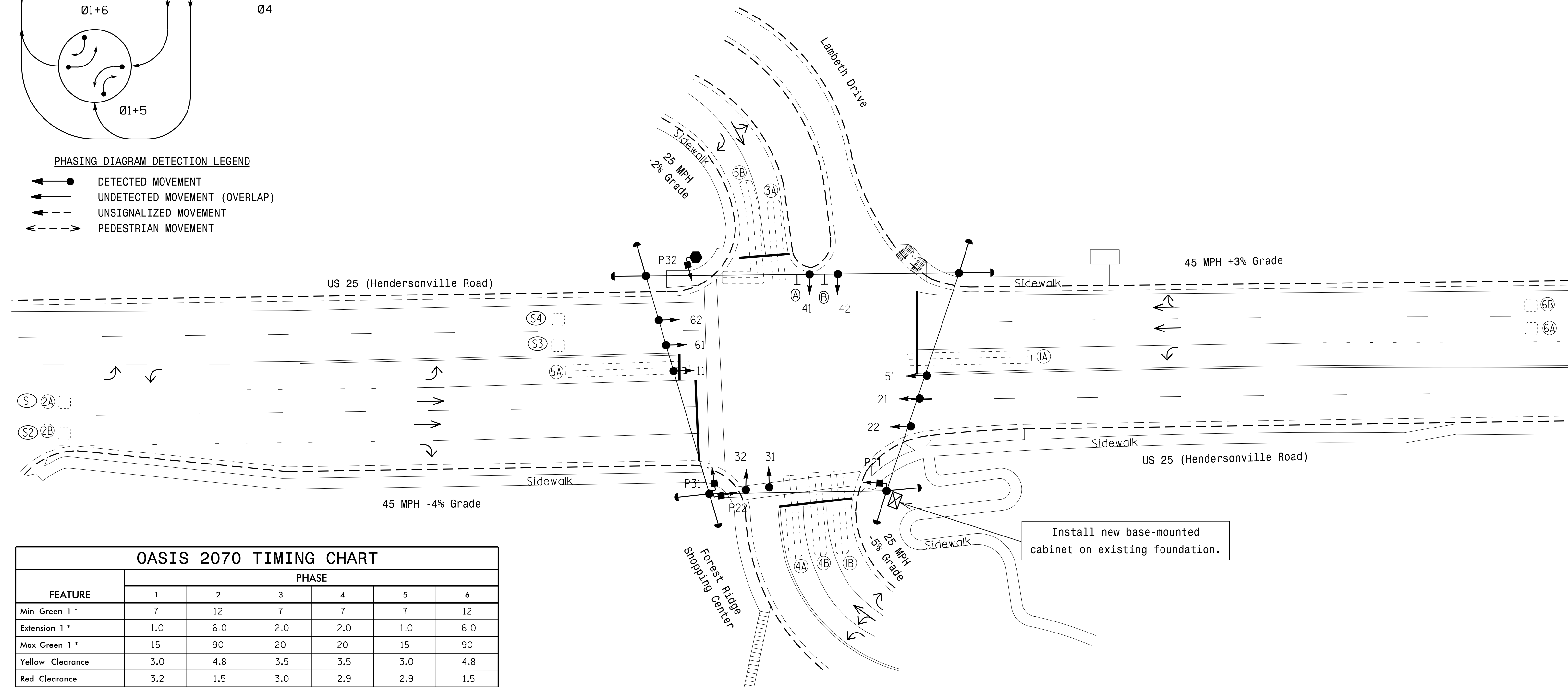


**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6x60	+5	2-4-2	-	1	Y	Y	-	-	3	-	Y
1B	6x40	+15	2-4-2	-	1	Y	Y	-	-	15	-	Y
2A/S1	6x6	300	5	-	2	Y	Y	-	-	-	-	Y
2B/S2	6x6	300	5	-	2	Y	Y	-	-	-	-	Y
3A	6x40	+14	2-4-2	-	3	Y	Y	-	-	-	-	Y
4A	6x40	+15	2-4-2	-	4	Y	Y	-	-	3	-	Y
4B	6x40	+15	2-4-2	-	4	Y	Y	-	-	-	-	Y
5A	6x60	+5	2-4-2	-	5	Y	Y	-	-	-	-	Y
5B	6x50x20	+14	2-4-2	-	5	Y	Y	-	-	15	-	Y
6A	6x6	300	5	-	6	Y	Y	-	-	-	-	Y
6B	6x6	300	5	-	6	Y	Y	-	-	-	-	Y
S3	6x6	+170	4	-	-	-	-	-	-	-	-	Y
S4	6x6	+170	4	-	-	-	-	-	-	-	-	Y

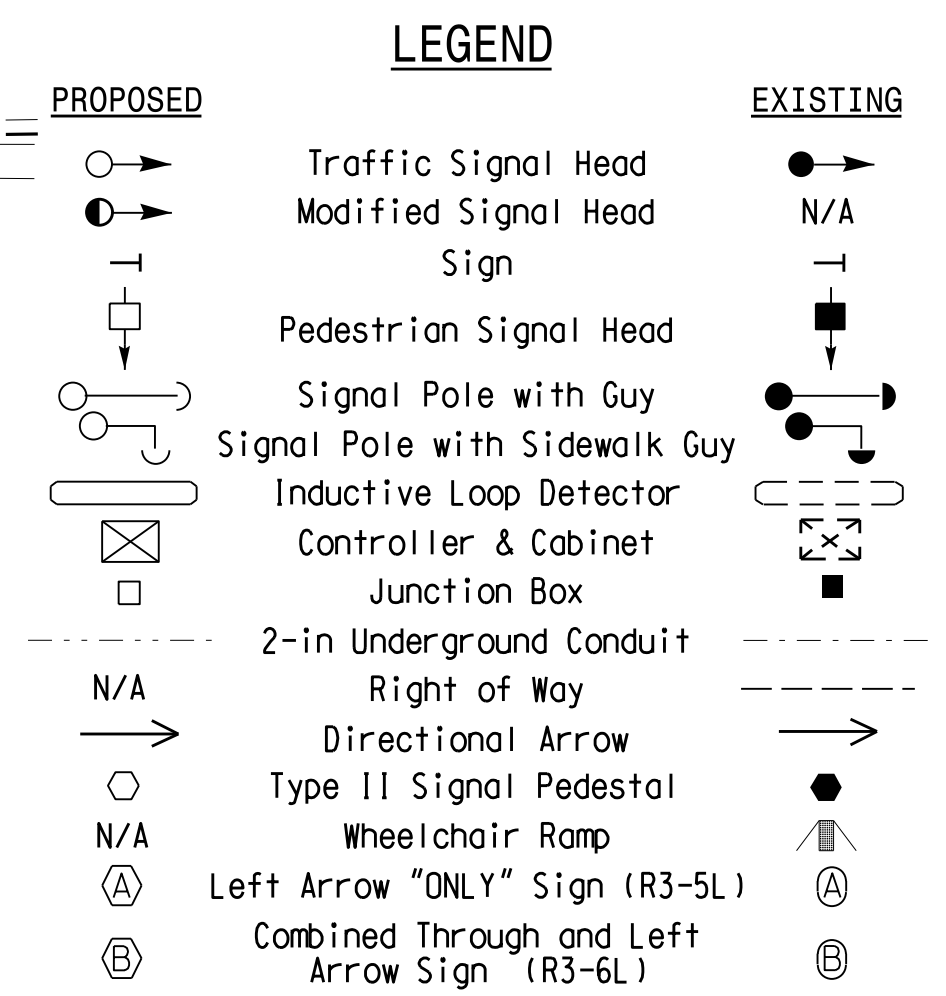
NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



**OASIS 2070 TIMING CHART**

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1 *	7	12	7	7	7	12
Extension 1 *	1.0	6.0	2.0	2.0	1.0	6.0
Max Green 1 *	15	90	20	20	15	90
Yellow Clearance	3.0	4.8	3.5	3.5	3.0	4.8
Red Clearance	3.2	1.5	3.0	2.9	2.9	1.5
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	7	7	-	-	-
Don't Walk 1	-	13	23	-	-	-
Seconds Per Actuation *	-	1.5	-	-	-	1.5
Max Variable Initial *	-	34	-	-	-	34
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	30	-	-	-	30
Minimum Gap	-	3.0	-	-	-	3.0
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON	ON	ON



\* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

Signal Upgrade

Prepared in the Offices of:  
  
**US 25 (Hendersonville Rd) at Lambeth Dr/Forest Ridge Shopping Center**  
 Division 13 Buncombe County Asheville  
 PLAN DATE: February 2016 REVIEWED BY: P. Alexander  
 PREPARED BY: M. Mahbooba REVIEWED BY:  
 SCALE: 1"=30'  
 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED  
 SEAL: J. G. Williams 8/17/2016  
 SIG. INVENTORY NO. 13-0512