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1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the team.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete each task.

4. The fourth step is to implement the plan. This involves putting the strategy into action and monitoring progress regularly to ensure that the project is on track.

5. The final step is to evaluate the results of the project. This involves comparing the actual outcomes with the objectives and goals to determine the effectiveness of the project and identify areas for improvement.

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TO PARKWAY
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* DETECTORS 5A AND 5C DETECTORS IN THE OUTER LEFT-TURN LANE (FUTURE) SHALL NOT BE CONNECTED FOR INTERIM DESIGN AS SHOWN ON PLANS

CLV TRAFFIC SIGNAL NOTES

1. EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED AND NOT RELOCATED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO CITY OF LAS VEGAS SALVAGE YARD, 3104 E. BONANZA ROAD, LAS VEGAS, NEVADA, 89101.
2. ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ONE-ON-SITE SUPERVISION OF AN ISA CERTIFIED TECHNICIAN LEVEL II.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION. CALL-BEFORE-YOU-OVERHEAD 1-702-227-2929
4. ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, 2006 EDITION, AND II, ADOPTED BY THE NEVADA TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS.
5. CONTRACTOR SHALL VERIFY 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL AND 1-40 AMP SINGLE POLE BREAKER FOR INTERSECTION LIGHTS IN EXISTING 200 AMP PADMOUNT SPECE P.E. IF NOT EXISTING, CONTRACTOR SHALL INSTALL.
6. CONTRACTOR SHALL VERIFY THAT EXISTING LUMINAIRES ON SIGNAL POLES ARE 400 WATT HIGH PRESSURE SODIUM, 120 VOLTS. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL. FOR LUMINAIRES THERE SHALL BE 2(TWO)-#4 AWG THW CONDUCTORS FROM THE SERVICE TO THE CABINET. IN THE CABINET, THE #4 AWG THW CONDUCTORS SHALL BRANCH OFF INTO #10 AWG THW CONDUCTORS INDIVIDUALLY FUSED WITH 10 AMP FUSES. THESE FUSES SHALL BE INSTALLED IN THE MAIN ELECTRICAL PANELS. EXISTING CONDUCTORS FOR LUMINAIRES SHALL BE REVISED IF FOUND TO HAVE ADEQUATE LENGTH AND APPROVED BY THE ENGINEER. ALL CONDUCTORS NOT USED FOR SIGNAL OR STREET LIGHTING OPERATION SHALL BE REMOVED FROM CONDUITS, AS DIRECTED BY ENGINEER.
7. CONTRACTOR SHALL PROVIDE AND INSTALL FOUR (4) 8'-FOOT INTERNALLY ILLUMINATED STREET NAME SIGNS PER STD. DWS. NO. 404.416 AND 404.417 CLV MODIFIED ON POLES "A", "B" "C" AND "D". THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRES PHOTO CELL FOR CONTROL WITH #10 AWG THW COPPER STRANDED WIRE (TYPICAL). IN THE EVENT THERE IS NO LUMINAIRE ON THE TRAFFIC SIGNAL POLE, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP.
8. CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNNERS.
9. ALL PULLBOXES ARE NO. 5 UNLESS OTHERWISE NOTED. ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NOS. 404.110, 404.120, AND 404.130. PULLBOXES SHALL NOT BE INSTALLED IN SIDEWALK RAMP.
10. TRAFFIC SIGNAL CABLE SHALL BE 25 CONDUCTOR (#14 AWG SMD (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.
11. PEDESTRIAN PUSH BUTTONS SHALL BE ADJUSTED TACTILE TYPE IN ACCORDANCE WITH CITY OF LAS VEGAS SPECIAL PROVISIONS TO SECTION 623 OF THE CCA USS. PUSH BUTTON SIGNS SHALL BE 9" x 12" WITH FULL MOUNTING BRACKETS. ALL PUSH BUTTONS TO BE MOUNTED 42 INCHES ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 24".
12. THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.
13. THE CONTRACTOR SHALL SUPPLY A 2070N CONTROLLER TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP; FOURTEEN DAYS PRIOR TO SIGNAL TURN-ON, FOR TESTING PURPOSES. THE CONTRACTOR SHALL DELIVER THE CONTROLLER TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP, 1400 N. GARDNER STREET, SUITE 200, LAS VEGAS, NV 89101 SEVEN DAYS PRIOR TO PICKUP. ALL 2070N CONTROLLERS WILL BE COMPATIBLE WITH AND FUNCTION PROPERLY WITH OSS 1996 OPERATION SYSTEM, THE LATEST VERSION OF THE "NEXT PHASE INTERSECTION MANAGEMENT SOFTWARE" (GARDNER TRANSPORTATION SYSTEM) AND THE ICMS (GARDNER TRANSPORTATION SYSTEM) GENERAL SOFTWARE.
14. THE MAINT ARM IS TO BE FABRICATED WITH END TENON ONLY. THE END TENON SHALL BE FACTORY INSTALLED AND THE REMAINING TENONS SHALL BE FABRICATED IN THE FIELD AT THE LOCATION SHOWN ON THE PLANS OR AS DIRECTED BY THE TRAFFIC ENGINEER AND/OR HIS AUTHORIZED REPRESENTATIVE. FOR TENON FABRICATION DETAILS SEE CLARK COUNTY AREA U.S.D. NO. 404-406 SHEET 2, ALL WELDING SHALL CONFORM TO AWS D 2.0, "QUALIFICATION FOR WELDED HIGHWAYS AND RAILWAY BRIDGES", AND TO ANY ADDITIONAL REQUIREMENTS OF SECTION 623.02.09 OF THE SPECIFICATIONS. ALL EXPOSED WELDS SHALL BE PAINTED TO PAINT COLOR AND FINISH.
15. ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LIGHT EMITTING DIODE (LED) TYPE INDICATORS, IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS TO SECTION 623 OF THE CCA USS.
16. VEHICLE DETECTION WILL BE BY VIDEO IMAGE DETECTION (EXCEPT FOR PHASE 6 SEE NOTE 17) USING EITHER TERIS EDGE 2, AUTOSCOPE 20, OR AUTOSCOPE 2008-V VIDEO DETECTION SYSTEMS OR CITY OF LAS VEGAS EQUIVALENT WITH ALL NECESSARY AUXILIARY EQUIPMENT SHALL BE INSTALLED IN EXISTING CONTROLLER CABINET, MOUNT FOUR (4) VIDEO CAMERAS AS SHOWN IN POLE SCHEDULE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. 628 VIDEO CAMERA AND CABLE AND CABLE SHALL BE RUN FROM THE CONTROLLER TO EACH CAMERA WITH "BNC" CONNECTORS. THE VIDEO DETECTOR SHALL HAVE THE CAPABILITY OF SENSING A VEHIKE ANYWHERE WITHIN THE "MINIMUM LIMITS OF DETECTION ZONE" SHOWN. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MANUFACTURER'S REPRESENTATIVE FOR TURN ON.
17. VEHICLE DETECTION WILL BE BY LOOP DETECTORS AND ADVANCED DETECTOR LOOPS (6'x6" WITH 4 TURNS OF WIRE, CENTERED IN TRAVEL LANE) FOR PHASE #5. LOOP LEAD IN CABLE SHALL BE 6-PAIR 18AWG MULTI-WIRE CONDUCTOR. LOOPS 5A & 5B SHALL BE PRESENCE/COUNT LOOPS. LOOPS 5C SHALL BE PRESENCE LOOPS. ALL NEW INDUCTION LOOPS SHALL BE INSTALLED USING CABLE-IN-DUCT WIRING OR PIER-FORMED LOOPS (AS SHOWN AND REQUIRED ON THE PLAN). SILENT HEAD-INDENT LEAD-IN WIRES FOR EACH LOOP FROM THE CONTROLLER TO THE PULL BOX AND EACH LEAD-IN CABLE BE INDIVIDUALLY TAGGED. LOOPS 5A AND 5C IN THE OUTER LEFT-TURN LANE (FUTURE) SHALL NOT BE CONNECTED FOR THIS INTERIM DESIGN AS INDICATED ON PLANS.
18. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTORS EXPENSE, TO THE SATISFACTION OF THE CITY.
19. MODEL 722 (TWO-WAY) OPTICOM DETECTORS SHALL BE MOUNTED ON TOP OF LEFT-MOST SIGNAL HEAD ON THE EAST MASTS OF POLES "A" AND "D". THE CONTROLLER SHALL BE EQUIPPED FOR OPTICOM PIER-EMPTION USING A MODEL 754 PHASE SELECTOR. MODEL 139 OPTICOM DETECTOR CABLE SHALL BE RUN FROM THE CONTROLLER TO THE OPTICOM DETECTOR AS SHOWN IN THE CONDUIT AND WIRE SCHEDULE.
20. CONTRACTOR SHALL SEPARATE VIDEO LINES WHEN EXTRA CONDUIT IS AVAILABLE. CONTRACTOR SHALL INSTALL 1-#8 THW TRACER WIRE IN EACH EMPTY CONDUIT.
21. CONTRACTOR SHALL INSURE THAT THE TRAFFIC SIGNAL POLES ARE PLUMBED AFTER THE INSTALLATION OF WEST ARMS AND TRAFFIC SIGNAL HEADS.
22. ALL PEDESTRIAN SIGNAL ASSEMBLIES SHALL BE PROVIDED WITH SIGNIFICANTLY REDUCED HEIGHTS TO ALLOW FOR CLEARANCE OF THE OVERHANGING DRIVE.
23. ALL STOP SIGNS AT INTERSECTIONS SHALL BE REMOVED AT TIME OF TRAFFIC SIGNAL ACTIVATION AND RETURNED TO THE CITY OF LAS VEGAS SALVAGE YARD 3104 E. BONANZA ROAD, LAS VEGAS, NEVADA, 89101.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND AND AERIAL UTILITIES.
25. FOURTEEN (14) WORKING DAYS PRIOR TO TURN-ON TO A TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CITY OF LAS VEGAS TRAFFIC ENGINEER STATING THAT WORK IS BEING COMPLETED AND THE PROPOSED DATE OF COMPLETION.
26. 1-#3 GROUNDING WIRE FROM THE EXISTING TYPE 200 S.V. AT THE NORTHEAST CORNER OF ELKHORN/GRAND MONTEITO TO THE PROPOSED TYPE 200 S.V. AT GRAND MONTEITO/ACE IS PROVIDED IN THE CONDUIT SCHEDULE OF THIS PROJECT. 1-#4 GROUNDING WIRE FROM THE EXISTING TYPE 200 S.V. AT ELKHORN/OVERLAND WILL BE PROVIDED AS PART OF THE 2009 DURANGO DRIVE ITS INFRASTRUCTURE IMPROVEMENTS FROM HUB #9 TO HWY PARK AND RIDE. EXISTING CONDUIT ROUTING SHOWN IN CONDUIT AND WIRE SCHEDULE. NO SPICES BETWEEN THE SPLICE VAULTS.

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CENTENNIAL HILLS | HANSON CENTER AND PARK+HIDE

CITY OF LAS VEGAS

**ELKHORN ROAD/GRAND MONTECITO PARKWAY
TRAFFIC SIGNAL NOTES AND SCHEDULES**

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