



SCOPE OF WORK
18015-18134.0

SANTA RITA JAIL
AGV Wi-Fi and PLC Infrastructure

Installation of (63) Wireless Access Points (WAP's)

- Install WAP's 1-15 & 26-73 (16-25 are completed)
- (63) WAP's: Cisco Air-AP 1652I, supplied by County
 - (16) mounted with Cisco PMK1 mounting brackets, supplied by County
 - (47) mounted with Cisco PMK1 mounting brackets, supplied by contractor, with custom mounting, provided by contractor per existing on site (see attached specs.)
 - (36) custom bracket with steel mounting plate at stucco walls
 - (11) without steel mounting plate at concrete wall
- See Report: **Pre-Install Wireless Survey** from *Dimension Data* dated January 5th 2018 for exact mounting locations – WAP location indicated by arrow on photo for each WAP location
- See drawing: **Ethernet Cabling for Wireless Access Point** for facility layout, WAP and switch locations

Installation of infrastructure (conduit pathways) for WAP to switch locations

- Supply and install 2 ½" conduit pathways only - cabling (CAT6A), terminations and hardware by others
- Pathways to be determined via site walk meeting with BMD Electricians – meeting notes will be issued
- Note locations of finished corridors versus unfinished corridors for conduit access from Housing Unit switch locations to exterior of buildings
- Core drill as required, locations and quantities TBD during site walk
- Horizontal boring required at (5) locations in Medium security yard where WAP's will be mounted to the wall between the minimum and medium security yards:
 - From Christy boxes outside Housing Units 21, 22, 23, 24 & 35 to concrete wall between minimum and medium yards
 - New Christy boxes required at wall end.
 - Conduit surface mounted to wall
- Install pull tape at all pathways, switch to WAP
- See spreadsheet: **AGV Wi-Fi - WAP's, Switch Locations & Notes**
- See drawing **Ethernet Cabling for Wireless Access Point** for facility layout, WAP and switch locations

Installation of infrastructure (conduit pathways) for PLC cabinets to switch locations

- Supply and install electrical panels and backboards at existing AGV J-Boxes
- Supply and install 2 ½” conduit pathways only from new electrical panels to switch locations - cabling (CAT6A), terminations and hardware by others
- Core drill as required, locations and quantities TBD during site walk
- Pathways to be determined via site walk meeting with BMD Electricians – meeting notes will be issued
- Install pull tape at all pathways, J-Box to Switch
- J-Box to Switch locations as follows:
 - J-Box 500 (Core 2209) to Classification Switch
 - J-Box 520 (Comm./Trash) to Kitchen Switch
 - J-Box 540 (Laundry/Supply) to Supply Switch
 - ~~J-Box 560 (Kitchen) to Kitchen Switch (COMPLETE)~~
 - ~~J-Box 580 (Battery 1) to AGV Shop Switch (COMPLETE)~~
 - J-Box 600 (Battery 2) to AGV Shop Switch
 - J-Box 660 (CP 48) to Classification Switch
 - J-Box 680 (CP 7) to HU 9 Switch
 - J-Box 740 (Service Entry Gate) to AGV Shop Switch
- See drawing: ***Ethernet Cabling for AGV J-Boxes/PLC's*** for facility layout, J-Box and switch locations.