

ADDENDUM No. 4

CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES

PROJECT NAME: Culebra Bulky Waste Collection Center (Project No. 55-000025)

DATE: December 10, 2013

This addendum is separated into sections for convenience; however, all contractors, subcontractors, material suppliers, and other parties shall be responsible for reading the entire addendum. The failure to list an item or items in all affected sections of this addendum does not relieve any party affected from performing as per instructions, providing that the information is set forth one time any place in this addendum. These documents shall be attached to and become part of the Contract Documents for this project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum and submit with their bid.

SECTIONS

1. Revised Form 025, Unit Pricing Form
2. Questions from Prospective Bidders and Answers
3. Changes and Clarifications to the Civil Documents
4. Changes and Clarifications to Information Technology (IT) Documents
5. Changes and Clarifications to the MEP Documents
6. Changes and Clarifications to Architectural Documents

END OF ADDENDUM No. 4

ADDENDUM REVIEWED & APPROVED BY:



12/10/13

CIMS Project Manager

Alex D. Gamble

Date

NOTICE TO PLANHOLDERS:

Please insert this Addendum into your copy of the Project Construction Documents.

**CITY OF SAN ANTONIO
DEPARTMENT OF CAPITAL IMPROVEMENTS MANAGEMENT SERVICES
CONTRACT SERVICES DIVISION**

RECEIPT OF ADDENDUM NUMBER(S) 4 IS HEREBY ACKNOWLEDGED FOR
PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF: **Culebra Bulky Waste Collection
Center**

FOR WHICH BIDS WILL BE OPENED ON Tuesday December 17, 2013 at 2:00 PM CST.

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH THE BID
PACKAGE.

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title

CITY OF SAN ANTONIO

025 UNIT PRICING FORM

PROJECT NAME: Culebra Bulky Waste Collection Addendum No. 4

PROJECT NO. 55-00025

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT
1	Mobilization	Lump Sum	1		
2	Insurance and Bonding	Lump Sum	1		
3	Temporary Controls including Erosion Control	Lump Sum	1		
4	Tree Protection	Lump Sum	1		
5	Demolition	Lump Sum	1		
6	Salvaging and Moving Modular Building	Lump Sum	1		
7	Clearing, Grubbing, and Rough Grading	Lump Sum	1		
8	Site Work and Final Subgrade	Lump Sum	1		
9	Retaining Walls	Linear Feet	388		
10	Retaining Wall Guardrail, Gates, and Accessories	Linear Feet	388		
11	Water Improvements within the Right-of-Way	Lump Sum	1		
12	Site Water Improvements	Lump Sum	1		
13	Site Sewer Improvements	Lump Sum	1		
14	Site Electrical Service and Lighting	Lump Sum	1		
15	Site IT Improvements	Lump Sum	1		
16	Site Security Improvements	Lump Sum	1		
17	Crew Quarters Building Complete including Foundation, Framing, Roof, Doors, Windows, Flooring, Mechanical, Electrical, Plumbing, IT, Security, and Finish Out	Lump Sum	1		
18	HHW Building Complete including Foundation, Framing, Roof, Doors, Windows, Flooring, Mechanical, Electrical, Plumbing, IT, Security, and Finish Out	Lump Sum	1		
19	Fixed Canopy Structure, Complete	Lump Sum	1		
20	Shade Structures	Each	8		
21	Standard Concrete Pavement	Square Yard	7426		
22	Heavy Duty Concrete Pavement	Square Yard	4175		
23	Container Concrete Pads	Square Yard	388		
24	Site Concrete Flatwork including Sidewalks and Drainage Channels	Lump Sum	1		
25	Site Curbs	Linear Feet	2391		
26	Pavement Striping	Lump Sum	1		
27	Fire Protection Systems	Lump Sum	1		
28	Sidewalks in Right-of-Way	Square Yard	294		
29	Curbs in Right-of-Way	Linear Feet	126		
30	Concrete Approaches in Right-of-Way	Square Yard	111		
31	Monument Sign	Lump Sum	1		
32	Electric Sliding Gate and Controls, complete	Each	4		
33	Site Fencing	Linear Feet	1090		
34	Sidewalk Drains and Handrails	Each	2		
35	Sawtooth Curb Structures	Linear Feet	85		
36	Landscaping	Lump Sum	1		
37	Irrigation	Lump Sum	1		
38	Miscellaneous - All items not covered in the above Bid Items	Lump Sum	1		
	Unit prices shall be full compensation for all required supervision, labor, products, materials, tools, equipment, plant, transportation, disposal, fees, services, incidentals, testing, overhead, and profit.	TOTAL BID AMOUNT			

QUESTIONS FROM PROSPECTIVE BIDDERS AND ANSWERS

City of San Antonio

Capital Improvements Management Services Department – Vertical Division

114 W. Commerce, 4th Floor

San Antonio, TX 78205

- 1. Please note that the Foundation Framing Plans that are drawn for both buildings (sheets S2.01 and S2.02) are not drawn to scale as indicated. Please advise if any other known drawing sheets are not drawn to scale as indicated.**

Answer: Drawings S2.01 and S2.01 are drawn to scale as indicated. Drawings may not be to scale because of printing issues or drawings have been reduced or enlarged. Dimensions on the drawings and details will always take precedence over a scaled dimension. If a dimension is not included on a drawing or detail the Contractor/Bidder should always ask for the dimension before scaling. Please note that the scale on drawing U-1 was incorrect and it should be noted that the site plan is not to scale. Please refer to the civil site plan, C-3.

- 2. Will you consider a change to the method of insulating the metal building? We propose the Simple Saver System for the standing seam roofing and walls.**

Answer: We are opting to not change the method of insulating the metal building at this time. Once this project has been awarded, the Contractor may propose alternate materials through the submittal process.

- 3. More information is needed to determine the requirements for signage.**

Answer: Signage for the project includes the project signs, traffic signs, and signage in the buildings. Please refer to details on the drawings, TxDOT/COSA standards for traffic signage, and Architectural specifications no. 10400. A typical ground sign detail has been included.

- 4. Please provide a fencing spec and clarify if all fence and gates are chain link. Which are barbed wire and which have smooth wire.**

Answer: Sheet LP-1 has been revised to include revised specifications, quantities, and typical sections. The fence will be tubular steel wrought iron in accordance with the typical section. The height of the fence is 6'-0". The gate is tubular steel wrought iron in accordance with the typical section. The gate operator and controller is specified on LP-1. Please provide two remote controls with the gate controller. Also note that the approximate quantity of fencing has been changed to approximately 1090 linear feet because the fencing at the rear of the property has been removed. The fencing on the east and west sides of the project shall terminate at the existing fence line.

- 5. What is the scale for Sheet U-1?**

Answer: Sheet U-1 is not to scale and should be noted on the plan.

- 6. Sheet C-8 shows an existing communications handhole on the west side of the property and new cabling handholes. The notes on sheet C-8 reference the IT drawings for more information. There is nothing on the old or new IT drawings about this. What size and quantity of conduit will be required? What size are the handholes?**

Answer: A typical communication handhole detail has been added to sheet T-7. The dimensions of the handhole are shown on the drawing. Handholes shall be Hubbell Power System (Part No.

PG2436BA24), or approved equal. The location and number of the handholes, and routing of the conduit cabling has been revised. Please see revised sheets C-8 and T-1 to determine the type, size, and quantity of conduit/cabling required.

7. **The detail on Addendum 2 sheet U-1 for the pole lights does not show the junction boxes to be inside the pole light concrete base. The new Sheet T-5 still shows the boxes. There is no information about these boxes. What manufacturer and model number for these boxes will be required? If these boxes are not required, will the 1” rigid conduit shown on the detail on sheet U1 still be required? If this conduit is installed without junction boxes in the concrete bases, a lift will be required to pull or replace the cabling for the cameras.**

Answer: Sheet U-1 has been revised to address some of these questions. Please see note 2 concerning the power supply to the security cameras. Please see note 3 concerning mounting locations for the convenient outlets by the canopy drop-off areas. Neglect the notation concerning the 1” rigid conduit on sheet U-1. The light pole base detail indicates power conduit feed and grounding is required at each of the light poles. Also see the revised information technology sheets (“T” drawings for additional information).

8. **On sheet U-1, keyed note #2 and in the pole light detail show junction boxes in the concrete pole light base for communication and CCTV power. Keyed note #2 says to coordinate with ArtCom about the boxes. There is no information about these concrete pole light bases boxes on the IT plans. What manufacturer and model number is required for the junction boxes?**

Answer: A typical detail of the pole base junction box has been added to revised sheet T-7. We are specifying a Carlon junction box assembly with curved lid, non-metallic. The box shall be installed per the detail and manufacturer’s recommendations. The Carlon part number for the junction box is E1212C24.

9. **Would you consider moving the bid opening date?**

Answer: No.

10. **What type of fence and what height will be required? What type of gates? What type of gate operators? What type of gate controllers will be required?**

Answer: Sheet LP-1 has been revised to include revised specifications, quantities, and typical sections. The fence will be tubular steel wrought iron in accordance with the typical section. The height of the fence is 6’-0”. The gate is tubular steel wrought iron in accordance with the typical section. The gate operator and controller is specified on LP-1. Please provide two remote controls with the gate controller. Also note that the approximate quantity of fencing has been changed to approximately 1090 linear feet because the fencing at the rear of the property has been removed. The fencing on the east and west sides of the project shall terminate at the existing fence line.

11. **Drawing C-2 requires a modular building to be moved to a City service center on Culebra Road. Please provide an address for the service center.**

Answer: The City service center is located at 6802 Culebra Road, San Antonio, Texas, 78238. A map is attached. The modular building shall be relocated by a company experienced in the relocation of similar buildings. The building shall be properly prepared and transported to the destination site. Coordinate with the service center for the delivery of the building. The building shall be properly placed on an acceptable number of concrete blocks or other approved supports. The building shall be level. No utility services including electrical or plumbing will be required in the new location.



Proposed move for NW Sector
Code Enforcement Field Office

CHANGES AND CLARIFICATIONS TO THE CIVIL DOCUMENTS

City of San Antonio

Capital Improvements Management Services Department – Vertical Division

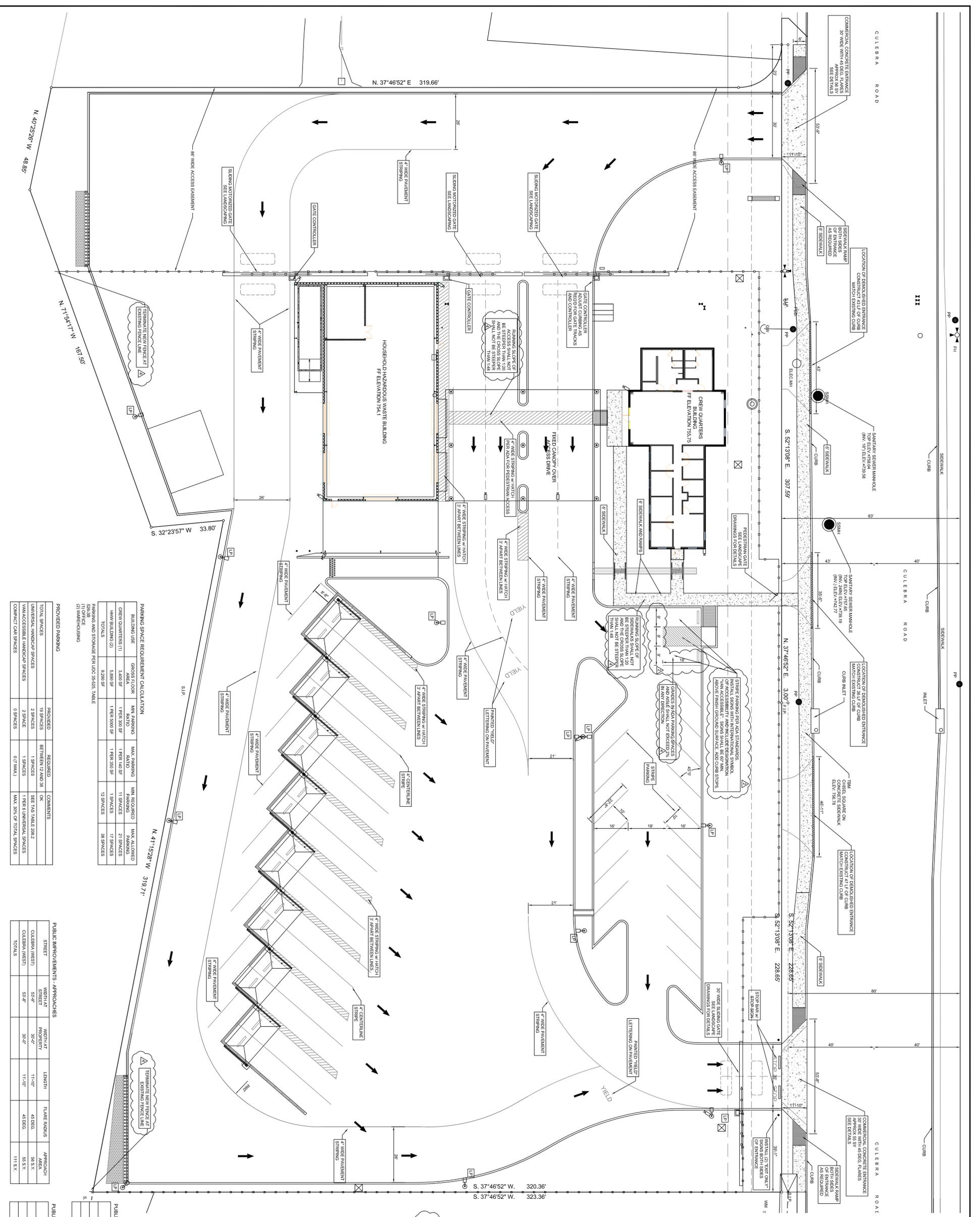
114 W. Commerce, 4th Floor

San Antonio, TX 78205

Clarifications, additions, and changes have been made to the civil drawings. The following drawings are attached:

- C-4 Revised drawing dated 12/4/2013. Revisions include, but not limited to, added notes for grading requirements associated with access and parking, indicated termination locations of fence.
- C-8 Revised drawing dated 12/4/2013. Revisions include, but not limited to, revisions to communication handhole locations and site communication cabling.

Typical Ground Sign Detail (8.5” x 11” drawing)



PARKING SPACE REQUIREMENT CALCULATION

BUILDING USE	GROSS FLOOR AREA	MIN. PARKING	MAX. PARKING	MIN. REQUIRED	MAX. ALLOWED
CREW QUARTERS (1)	3,000 SF	1 PER 300 SF	1 PER 100 SF	11 SPACES	21 SPACES
HWY BUILDING (2)	5,800 SF	1 PER 300 SF	1 PER 100 SF	19 SPACES	58 SPACES
TOTALS	8,800 SF			30 SPACES	79 SPACES

PARKING AND STORAGE PER DDC-35-02, TABLE (1) OFFICE (2) WAREHOUSING

PROVIDED	REQUIRED	COMMENTS
19 SPACES	BETWEEN 12 AND 38	OK
2 SPACES	1 SPACE	SEE HAS TABLE 208.2
2 SPACES	1 SPACE	SEE HAS UNIVERSAL SPACES
0 SPACES	0 SPACES	MAX 50% OF TOTAL SPACES

PUBLIC IMPROVEMENTS - APPROACHES

STREET	WIDTH AT PROTECT	WIDTH AT PROTECT	LENGTH	FLARE RADII	APPROACH
CULEBRA (WEST)	53'-0"	30'-0"	11'-10"	45'-0"	56 S.Y.
CULEBRA (WEST)	53'-0"	30'-0"	11'-10"	45'-0"	56 S.Y.
TOTALS					111 S.Y.

PUBLIC IMPROVEMENTS - SIDEWALKS

STREET	WIDTH	LENGTH	AREA
CULEBRA	6'-0"	447'-0"	2682 S.Y.
TOTALS			2682 S.Y.

PUBLIC IMPROVEMENTS - CURBS

STREET	CURB IN PLACE	MACHINE Laid	CURB AND WALK
CULEBRA	1241.6'	NA	NA
TOTALS	1241.6'	NA	NA

TRAFFIC SIGN NOTES:

1. COMPLY WITH ALL LOSA AND TPOOT STANDARDS FOR TRAFFIC SIGN INCLUDING COLOR AND DIMENSIONS.
2. COMPLY WITH ALL LOSA AND TPOOT STANDARDS FOR TRAFFIC SIGN INCLUDING COLOR AND DIMENSIONS.
3. COMPLY WITH ALL LOSA AND TPOOT STANDARDS FOR TRAFFIC SIGN INCLUDING COLOR AND DIMENSIONS.
4. THE WIDTHS OF ALL CENTERLINES AND EDGE OF PAVEMENT LINES SHALL BE 4 INCHES UNLESS OTHERWISE NOTED.
5. HANDPAINTED SIGNALS SHALL BE 2 FEET HIGH AND 1.4 FEET WIDE UNLESS OTHERWISE NOTED.
6. STOP LINES SHALL BE 4 INCHES WIDE UNLESS OTHERWISE NOTED.

PAVEMENT MARKING NOTES:

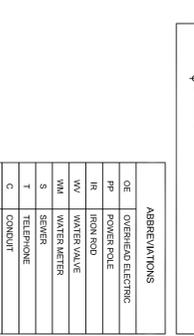
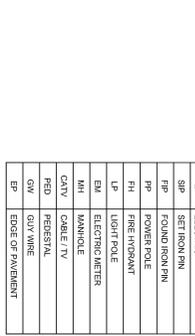
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6. STOP LINES SHALL BE 4 INCHES WIDE UNLESS OTHERWISE NOTED.

ACCESSIBILITY NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF SAN ANTONIO ORDINANCES, TITLE 17B ACCESSIBILITY STANDARDS, AND ADA GUIDELINES.
2. ACCESS SHALL BE PROVIDED FROM HANDICAP PARKING TO THE NEW BUILDING ACCESS SPACES. SEE RESISTANCE AND COEFFICIENT OF FRICTION ON DRAWINGS AND A MINIMUM OF 3 FEET THE MINIMUM CROSS SLOPE OF PAVED AND UNPAVED AREAS SHALL BE 1:20.
3. ACCESS WITH A RUNNING SLOPE GREATER THAN 1% IS CONSIDERED A RAMP. RAMP SHALL BE AS WIDE AS THE RAMP AND A MINIMUM AND TOP OF ALL EDGES SHALL BE 2 INCHES ABOVE THE FINISHED GRADE. THE VERTICAL CURVE OF A RAMP SHALL BE 2.5 FEET LANDINGS AT THE BOTTOM AND TOP OF ALL EDGES SHALL BE 2 INCHES ABOVE THE FINISHED GRADE.
4. HAND PAINTED SIGNALS SHALL BE 2 FEET HIGH AND 1.4 FEET WIDE UNLESS OTHERWISE NOTED.
5. HANDPAINTED SIGNALS SHALL BE 2 FEET HIGH AND 1.4 FEET WIDE UNLESS OTHERWISE NOTED.
6. STOP LINES SHALL BE 4 INCHES WIDE UNLESS OTHERWISE NOTED.

ABBREVIATIONS

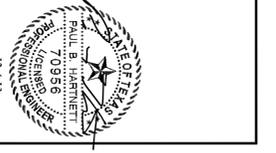
OE	OVERHEAD ELECTRIC
PE	POWER POLE
IR	IRON ROD
WV	WATER VALVE
WM	WATER METER
S	SEWER
T	TELEPHONE
C	CONDUIT
E	ELECTRIC
SP	SET IRON PIN
PP	POWER POLE
FI	FIRE HYDRANT
LP	LIGHT POLE
EM	ELECTRIC METER
MH	MANHOLE
CATV	CABLE TV
FBV	FIRE BELL VALVE
GW	GW WIRE
EP	EDGE OF PAVEMENT



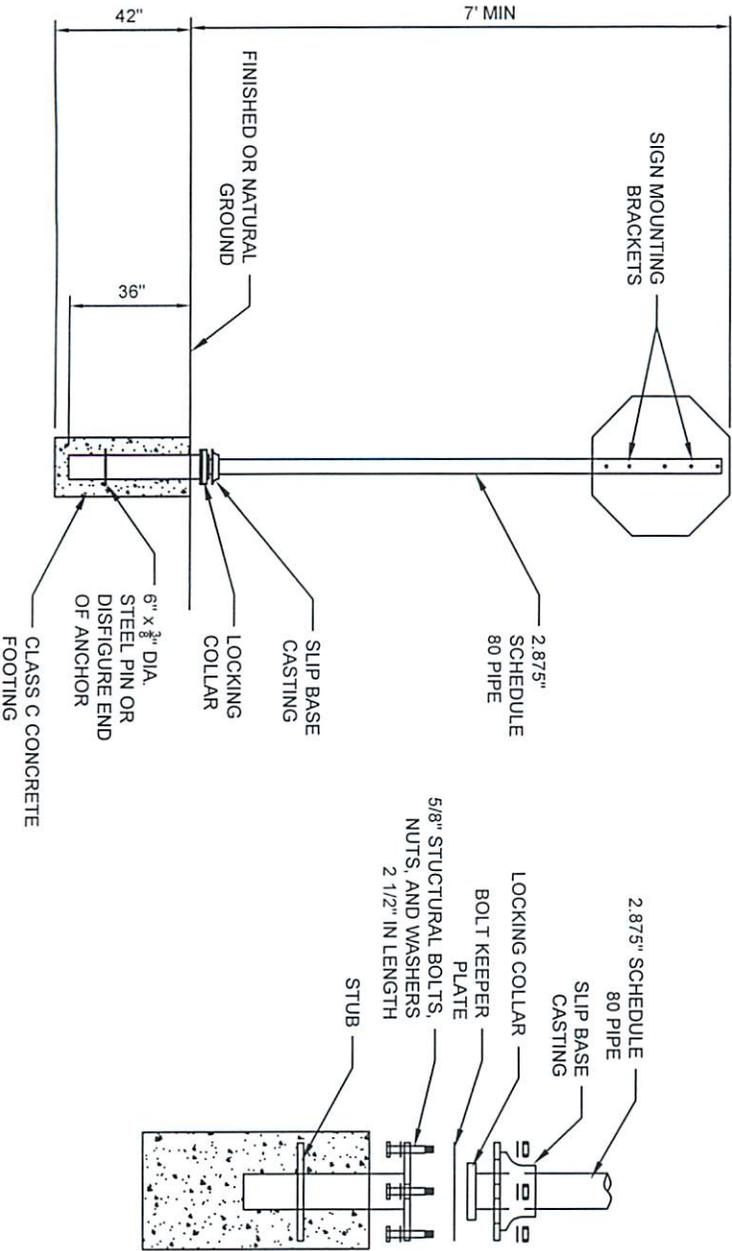
CITY OF SAN ANTONIO SOLID WASTE MANAGEMENT DEPARTMENT
CULEBRA HHW AND BULKY WASTE FACILITY
 7030 CULEBRA ROAD
 SAN ANTONIO, TEXAS 78227

DEBRA J. DOCKERY, ARCHITECT, P.C.
 118 BROADWAY, SUITE 516
 SAN ANTONIO, TX 78205
 PHONE (210) 225-6130
 FAX (210) 225-7588

HES, Inc.
 23023 Somo Ln
 San Antonio, TX 78256
 210-688-4469
 TDP# No. 1-4994



PROJECT NO. 1301
PHASE CONSTRUCTION DOCUMENTS
DATE OCTOBER 19, 2013
DESCRIPTION TRAFFIC PLAN
C-4



- TRAFFIC SIGN NOTES:**
1. COMPLY WITH ALL COSA AND TxDOT STANDARDS FOR TRAFFIC SIGNS INCLUDING COSA ITEM 636.
 2. ALL GROUND MOUNTED SIGNS SHALL USE HIGH INTENSITY REFLECTIVE SHEETING.
 3. ALL HOLES SHALL BE $\frac{3}{16}$ " DIAMETER DRILLED OR PUNCHED AS SHOWN AND BE FREE OF BURRS AND ROUGH EDGES.
 4. SIGN CORNERS TO BE ROUNDED AS REQUIRED.
 5. SIGN SHALL BE MIN. 24" OFF FACE OF CURB, MAX. 48".



HES Inc.

22622 SUENO
SAN ANTONIO, TX 78256
(210) 698-8469
TBP# # F-4094

TYP. GROUND SIGN DETAIL

CULEBRA HHW AND BULKY CENTER
CULEBRA ROAD SAN ANTONIO, TX

DATE: 12-10-13	FIG.
SCALE: NTS	
DRAWN BY: PBH	
FILE: signs	
	1

CHANGES AND CLARIFICATIONS TO THE LANDSCAPING DOCUMENTS

City of San Antonio

Capital Improvements Management Services Department – Vertical Division

114 W. Commerce, 4th Floor

San Antonio, TX 78205

Clarifications, additions, and changes have been made to the landscaping drawings. The following drawings are attached:

- L-1 Revised drawing dated 12/3/13. Revisions include, but not limited to, revising the estimated length of fencing required, controller and operator specifications, adding a typical fence section, and adding a typical gate section.

CHANGES AND CLARIFICATIONS TO THE IT DOCUMENTS

City of San Antonio

Capital Improvements Management Services Department – Vertical Division

114 W. Commerce, 4th Floor

San Antonio, TX 78205

Clarifications, additions, and changes have been made to the IT drawings. The following drawings are attached:

- T-1 Revised drawing dated 12/01/13 (Revision No. 2)
- T-2 Revised drawing dated 12/01/13 (Revision No. 2)
- T-3 Revised drawing dated 12/01/13 (Revision No. 2)
- T-4 Revised drawing dated 12/01/13 (Revision No. 2)
- T-5 Revised drawing dated 12/01/13 (Revision No. 2)
- T-6 New drawing dated 12/01/13 (Revision No. 2) containing backboard detail, wall layout, head end wall detail, and electric strike installation detail.
- T-7 New drawing dated 12/01/13 (Revision No. 2) containing typical light pole pedestal camera detail, typical camera installation detail, pole detail, communication trench detail, and typical handhole detail.



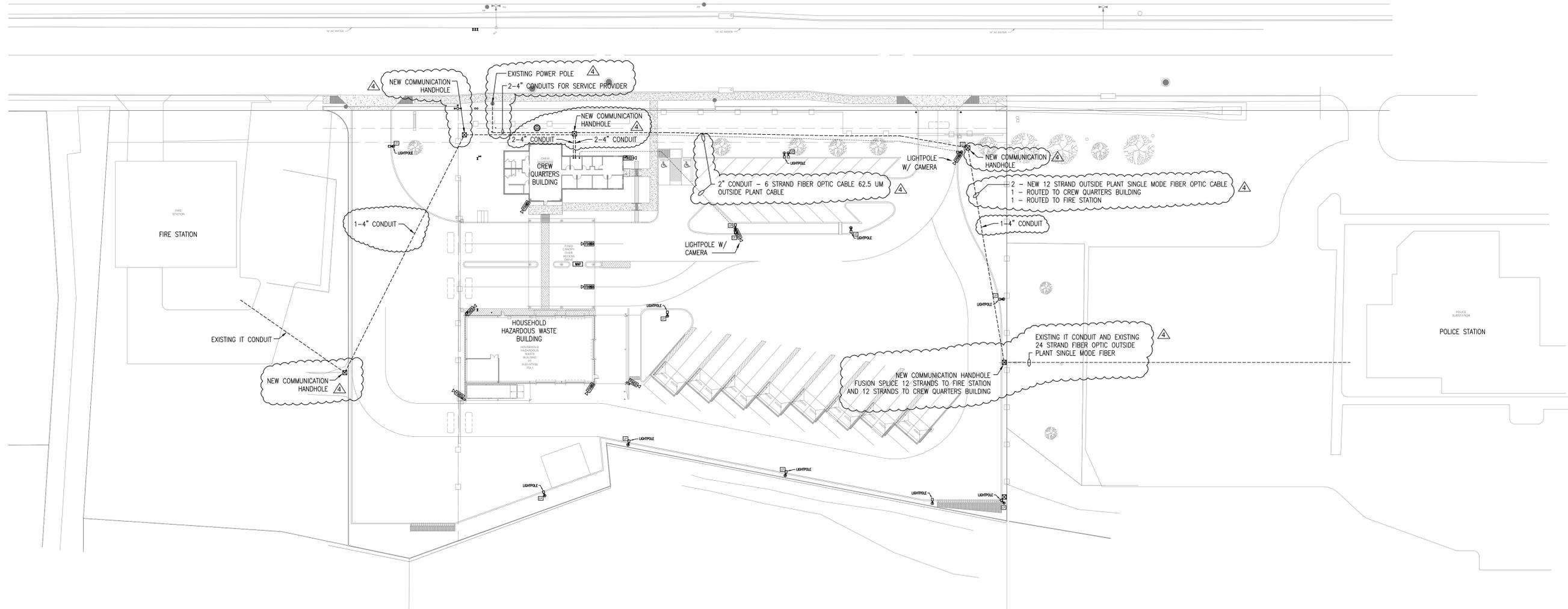
ARTCOM COMMUNICATIONS

7810 FORTUNE DR.
SAN ANTONIO, TEXAS 78250
PHONE: (210) 684-8877
WWW.ARTCOMTX.COM

CITY OF SAN ANTONIO SOLID WASTE MANAGEMENT DEPARTMENT

CULEBRA RECYCLING FACILITY

7300 CULEBRA ROAD
SAN ANTONIO TX 78227



1 TECHNOLOGY NETWORKING CONNECTIVITY SITE PLAN

SCALE: 1" = 40'-0"

DEVICE LEGEND	
SYMBOL	DESCRIPTION
	EXTERIOR FIXED CAMERAS (1) CATEGORY 6 CABLE
	WIRELESS ACCESS POINT E/W: (1) CAT 6 CABLE (1) CAT 6 DATA INSERT (1) SURFACE MOUNTED BOX (10) FEET OF SERVICE LOOP NEATLY COILED AND SECURED TO J-HOOK WITH VELCRO.

GENERAL CAMERA INSTALLATION NOTES:

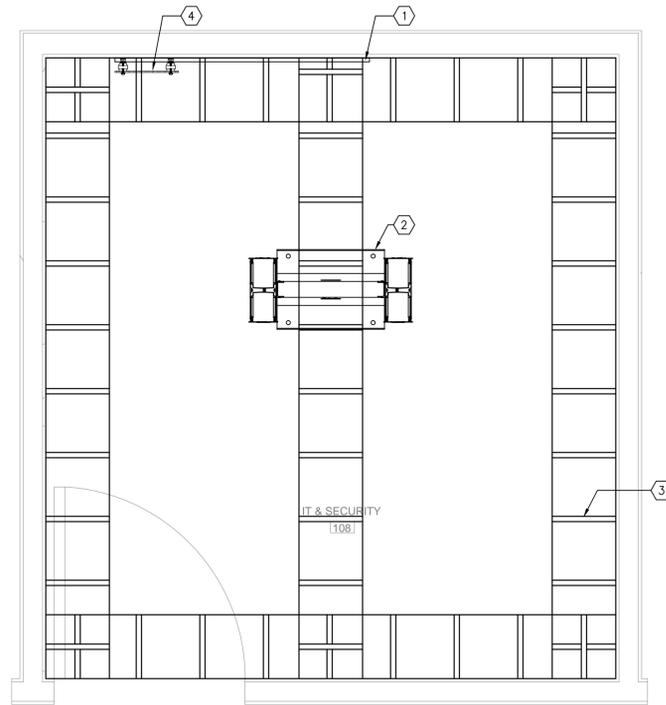
- ALL EXTERIOR WALL MOUNTED CAMERAS MOUNTED TO A TWO-GANG JUNCTION BOX PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- POLE MOUNTED EXTERIOR CAMERAS, SEE SHEET T-5 DETAIL 1.

CONTRACTORS NOTE:
"IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF SAN ANTONIO A MINIMUM OF THREE WEEKS PRIOR TO ANY SITE WORK BEING PERFORMED ON THE PROJECT SITE IN ORDER TO GIVE THE CITY OF SAN ANTONIO ITS DEDICATED TIME TO PROVIDE TEMPORARY PHONE AND INTERNET SERVICES TO THE FIRE STATION LOCATED ADJACENT TO THE PROJECT SITE. SITE WORK MAY BEGIN AFTER THE CONTRACTOR RECEIVES NOTIFICATION IN WRITING FROM THE CITY OF SAN ANTONIO THAT ALL TEMPORARY SERVICES HAVE BEEN IMPLEMENTED AND FUNCTIONING PROPERLY. FAILURE TO DO SO WILL RESULT IN DAILY PENALTY CHARGES FOR ANY DOWNTIME THE FIRE STATION MAY HAVE."

NO.	ISSUED FOR	DATE
4	Addendum 4	12/06/13

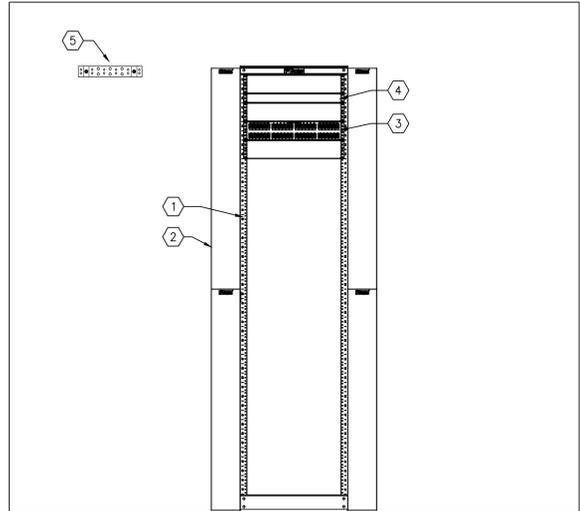
SHEET NAME:
TECHNOLOGY NETWORKING CONNECTIVITY SITE PLAN
DRAWN BY: TD
PROJECT #: XXXXX
SHEET NUMBER:

T-2



- KEYED NOTES:
- ① 4 FEET X 8 FEET X 3/4 INCH AC GRADE VOID FREE FIRE RATED PLYWOOD INSTALLED VERTICALLY STARTING AT 12 INCHES ABOVE FINISHED FLOOR ON ALL PERIMETER WALLS. THE PLYWOOD SHALL BE INSTALLED WITH THE "A" GRADE SIDE EXPOSED THE "C" GRADE SIDE AGAINST THE BUILDING WALL OR STRUCTURE. FIRE RATED PLYWOOD STAMPS SHALL BE VISIBLE FOR INSPECTION AFTER INSTALLATION.
 - ② 19 INCH X 84 INCH EQUIPMENT RACK WITH VERTICAL WIRE MANAGERS. REAR OF RACK MUST BE INSTALLED A MINIMUM OR 36 INCH FROM WALL.
 - ③ 12 INCH LADDER RACK MOUNTED AT 84 INCH ABOVE FINISHED FLOOR.
 - ④ GROUND BUS BAR AT 84 INCHES ABOVE FINISHED FLOOR.

1 IT & SECURITY ROOM ENLARGED FLOOR PLAN
SCALE: 3/4" = 1'-0"



- KEYED NOTES:
- ① PANDUIT 19 INCH X 84 INCH EQUIPMENT RACK.
 - ② PANDUIT DOUBLE SIDED VERTICAL CABLE MANAGER.
 - ③ PANDUIT DOUBLE SIDED HORIZONTAL CABLE MANAGER.
 - ④ PANDUIT RACK MOUNT FIBER OPTIC ENCLOSURE.
 - ⑤ GROUND BUSBAR.

2 IT & SECURITY ROOM FRONT VIEW LAYOUT
SCALE: 3/4" = 1'-0"

CONTRACTORS NOTE:
"IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF SAN ANTONIO A MINIMUM OF THREE WEEKS PRIOR TO ANY SITE WORK BEING PERFORMED ON THE PROJECT SITE IN ORDER TO GIVE THE CITY OF SAN ANTONIO ITSD TIME TO PROVIDE TEMPORARY PHONE AND INTERNET SERVICES TO THE FIRE STATION LOCATED ADJACENT TO THE PROJECT SITE. SITE WORK MAY BEGIN AFTER THE CONTRACTOR RECEIVES NOTIFICATION IN WRITING FROM THE CITY OF SAN ANTONIO THAT ALL TEMPORARY SERVICES HAVE BEEN IMPLEMENTED AND FUNCTIONING PROPERLY. FAILURE TO DO SO WILL RESULT IN DAILY PENALTY CHARGES FOR ANY DOWNTIME THE FIRE STATION MAY HAVE."



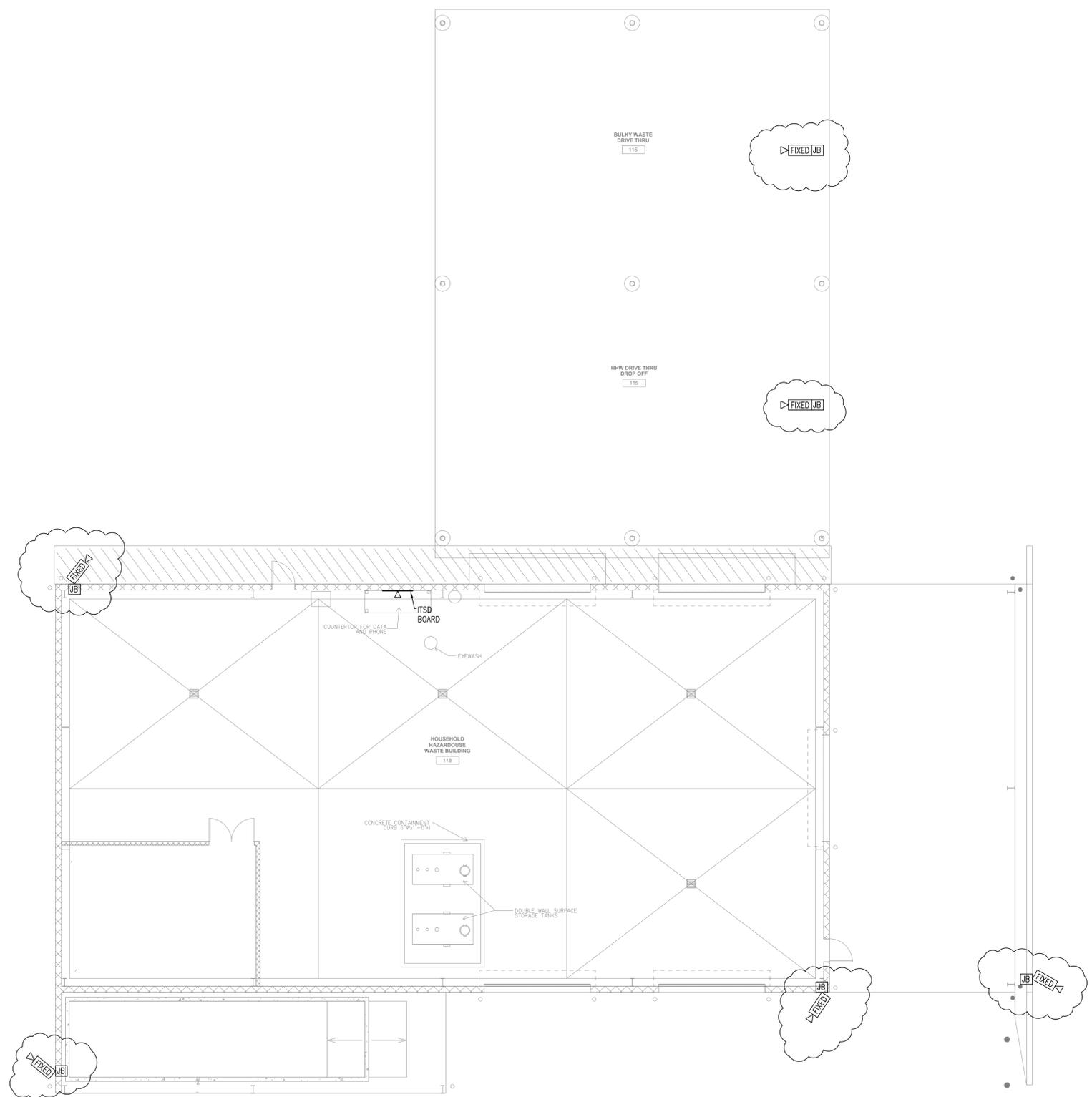
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CITY OF SAN ANTONIO SOLID WASTE MANAGEMENT DEPARTMENT
CULEBRA RECYCLING FACILITY
7300 CULEBRA ROAD
SAN ANTONIO TX 78227

NO.	ISSUED FOR	DATE
1	SUBMITTAL R1	07/12/13
2	SUBMITTAL R2	12/01/13

SHEET NAME:
CREW QUARTERS BUILDING
IT & SECURITY ROOM
ENLARGED FLOOR PLAN &
FRONT VIEW LAYOUT
DRAWN BY: TD
PROJECT #: XXXXX
SHEET NUMBER:

T-4



DEVICE LEGEND	
SYMBOL	DESCRIPTION
▽	WORK AREA OUTLET E/W: (2) CAT 6 CABLE, DATA
—	3/4" x 4" x 8" FIRE RATED PLYWOOD, PAINTED WITH TWO COATS OF WHITE FIRE RETARDANT PAINT. DO NOT COVER FIRE RATING STAMP BY GENERAL CONTRACTOR
J.B. FIXED ▽	FIXED CAMERAS W/ 2-GANG JUNCTION BOX (1) CATEGORY 6 CABLE

- GENERAL CAMERA INSTALLATION NOTES:**
- ALL EXTERIOR WALL MOUNTED CAMERAS MOUNTED TO A TWO-GANG JUNCTION BOX PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.

1 HHW BUILDING - TECHNOLOGY FLOOR PLAN

SCALE: 1/8" = 1'-0"

CONTRACTORS NOTE:

"IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF SAN ANTONIO A MINIMUM OF THREE WEEKS PRIOR TO ANY SITE WORK BEING PERFORMED ON THE PROJECT SITE IN ORDER TO GIVE THE CITY OF SAN ANTONIO ITS TIME TO PROVIDE TEMPORARY PHONE AND INTERNET SERVICES TO THE FIRE STATION LOCATED ADJACENT TO THE PROJECT SITE. SITE WORK MAY BEGIN AFTER THE CONTRACTOR RECEIVES NOTIFICATION IN WRITING FROM THE CITY OF SAN ANTONIO THAT ALL TEMPORARY SERVICES HAVE BEEN IMPLEMENTED AND FUNCTIONING PROPERLY. FAILURE TO DO SO WILL RESULT IN DAILY PENALTY CHARGES FOR ANY DOWNTIME THE FIRE STATION MAY HAVE."



ARTCOM COMMUNICATIONS
 7810 FORTUNE DR.
 SAN ANTONIO, TEXAS 78250
 PHONE: (210) 684-8877
 WWW.ARTCOMTX.COM

CITY OF SAN ANTONIO SOLID WASTE MANAGEMENT DEPARTMENT
CULEBRA RECYCLING FACILITY
 7300 CULEBRA ROAD
 SAN ANTONIO TX 78227

NO.	ISSUED FOR	DATE
1	SUBMITTAL R1	07/12/13
2	SUBMITTAL R2	12/01/13

SHEET NAME:
HHW BUILDING TECHNOLOGY FLOOR PLAN

DRAWN BY: TD
 PROJECT #: XXXXX
 SHEET NUMBER:

T-5

CHANGES AND CLARIFICATIONS TO THE MEP DOCUMENTS

City of San Antonio

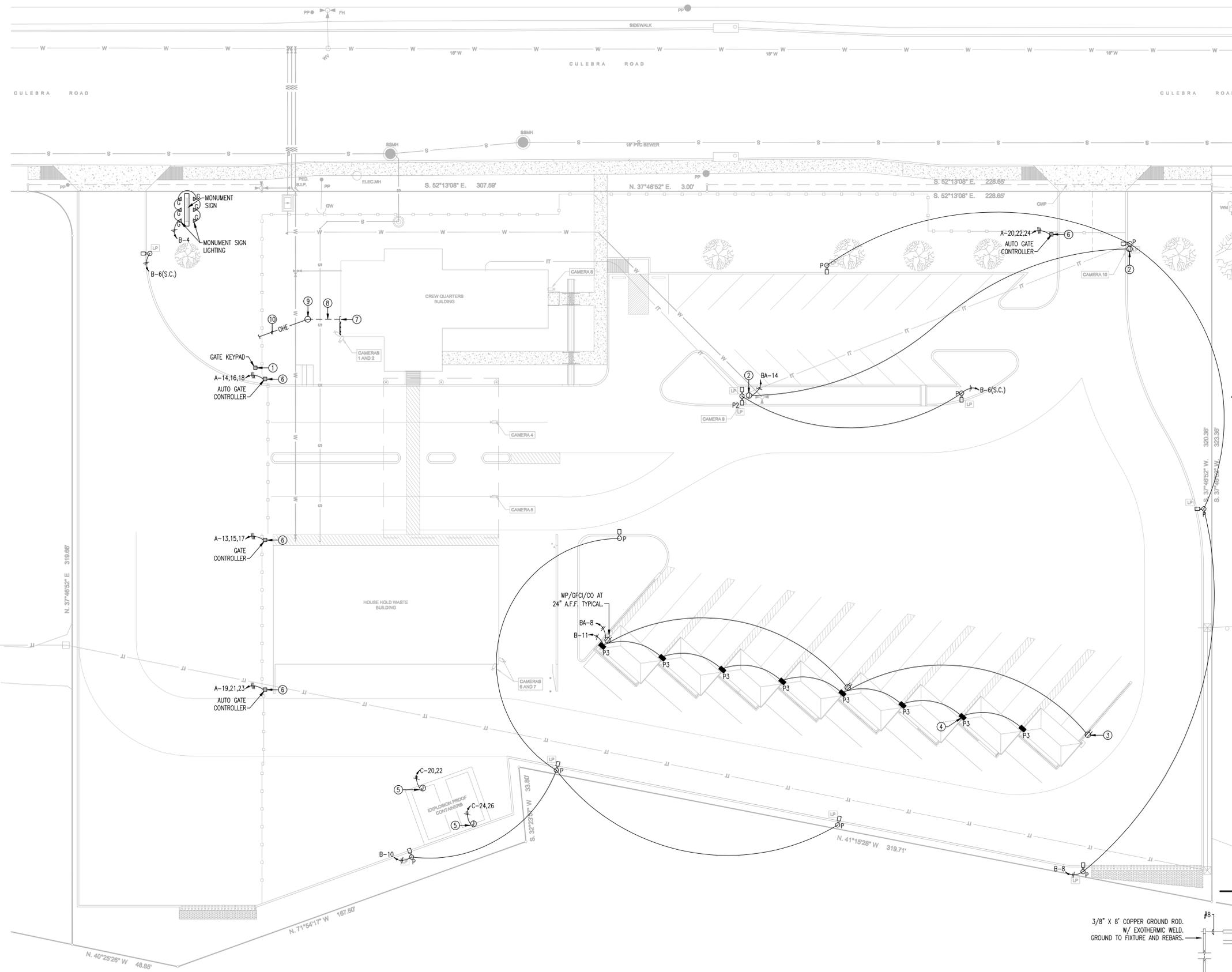
Capital Improvements Management Services Department – Vertical Division

114 W. Commerce, 4th Floor

San Antonio, TX 78205

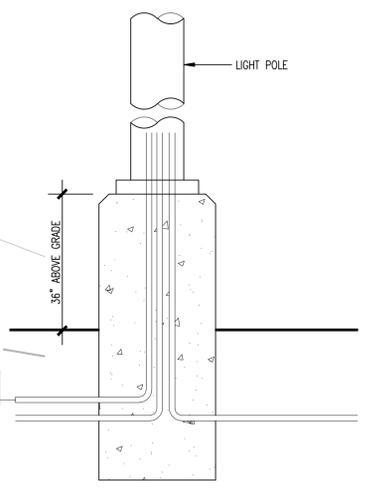
Clarifications, additions, and changes have been made to the MEP drawings. The following drawings are attached:

- U-1 Revised drawing dated 12-06-2013. Revisions include, but not limited to, revised notes.
- E1 Revised drawing dated 12-06-2013. Revisions include, but not limited to, added camera mounting details, revised power to IT and security equipment, and revised notes.
- E2 Revised drawing dated 12-06-2013. See modifications to the power plan.
- E3 Revised drawing dated 12-06-2013. Revisions include, but not limited to, revised power to IT and security equipment, and revised notes.
- M2 Revised drawing dated 12-06-2013. Revisions include, but not limited to, revised exhaust fan and roof cap detail.



ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
C	RECEPTACLES FOR COMPUTER
AC	RECEPTACLES ABOVE COUNTER
BC	RECEPTACLES BELOW COUNTER
CO	CONVENIENCE OUTLET
SC	SPLIT CIRCUIT
WP/GFCI	WEATHERPROOFED/GROUND FAULT CIRCUIT INTERRUPTER
POC	POINT OF CONNECTION
WP/GFCI	WEATHERPROOFED/GROUND FAULT CIRCUIT INTERRUPTER
(---)	TYPICAL CIRCUIT LEG
(---)	TYPICAL SWITCH LEG
(---)	HOMERUN, 120V CIRCUIT W/ GND.
(---)	ISOLATED GND CIRCUIT W/ GND.
(---)	HOMERUN, 208/1P CIRCUIT W/ GND.
(---)	HOMERUN, 208/3P CIRCUIT W/ GND.
(J)	JUNCTION BOX
(D)	DEDICATED ELECTRICAL DUPLEX OUTLET WITH ISOLATED GROUND 18" AFF
(R)	208V, 1P RECEPTACLE
(T), (M), (S)	TELEPHONE (T), DATA OUTLET (D) FAX (F), MONITOR (M), S-VIDEO (S) (TERMINATE 3/4" CONDUIT 12" ABOVE CEILING WITH ELBOW.)
(P)	RECESSED MOUNT PANEL BD.
(L)	DATAL SYMBOL LEGEND (COORDINATE ALL DATA LOCATION WITH ARCHCOM)
(C)	CAT 6 CABLE, DATA

- SITE ELECTRICAL NOTES:**
- KEYPAD LOCATION SHALL CONTROL ALL 4 GATES. PROVIDE ALL NECESSARY CONDUITS AND WIRING FOR COMPLETE INSTALLATION. COORDINATE WITH GATE MANUFACTURER.
 - POWER FOR SECURITY CAMERAS MOUNTED ON LIGHT POLE (2 LOCATIONS). RUN CONDUIT AND TERMINATE IN J-BOX PROVIDED PER IT DRAWINGS. LOCATE AND MOUNT A GFCI DUPLEX RECEPTACLE ON TOP LEFT HAND OR RIGHT HAND SIDE OF THE J-BOX.
 - WP/GFCI/CO RECEPT MOUNTED AT 15" A.F.F. ON CONCRETE PILASTER BY DROP-OFF AREA. RUN CONDUIT INSIDE PILASTER AND TERMINATE WITH J-BOX AND DUPLEX RECEPT. INSTALL FLUSH WITH CONCRETE WALL.
 - WALLPACK P3 MOUNTED ON CANOPY SUPPORT COLUMN. RUN CIRCUITING HIDDEN INSIDE COLUMN TO P3 LOCATED 12" BELOW CANOPY SUPPORT. NO EXPOSED CONDUIT ALLOWED. COORDINATE WITH CANOPY MANUFACTURER.
 - J BOX FOR POWER TO EXPLOSION - PROOF CONTAINERS. BTC TO PANELBOARD ON CONTAINER. VERIFY.
 - GATE CONTROLLER POWER. ROUGH-IN POWER FEED UNDER SLAB TO GATE CONTROLLER. COORDINATE WITH GATE MANUFACTURER.
 - ELECTRICAL SERVICE RISER, 120/208/3P/4W.
 - UNDERGROUND ELECTRIC. REFER. DETAIL E2.01.
 - APPROXIMATE LOCATION OF TRANSFORMER POLE. VERIFY AND COORDINATE WITH CPS. GC SHALL APPLY FOR NEW SERVICE.
 - OVERHEAD ELECTRIC FEED FROM EXISTING TRANSFORMER POLE AT WEST PROPERTY LINE. VERIFY AND COORDINATE WITH CPS.



NOTE: COORDINATE & VERIFY WITH ARCHCOM & CIVIL DRAWINGS CONCERNING ALL IT REQUIREMENTS.

U1.02 TYP. POLE LIGHT & BASE DETAIL
SCALE: NOT TO SCALE

U1.01 ELECTRICAL LIGHTING FLOOR PLAN
SCALE: 1/4" = 1'-0"



10-22-2013
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SAN ANTONIO, TEXAS 78227

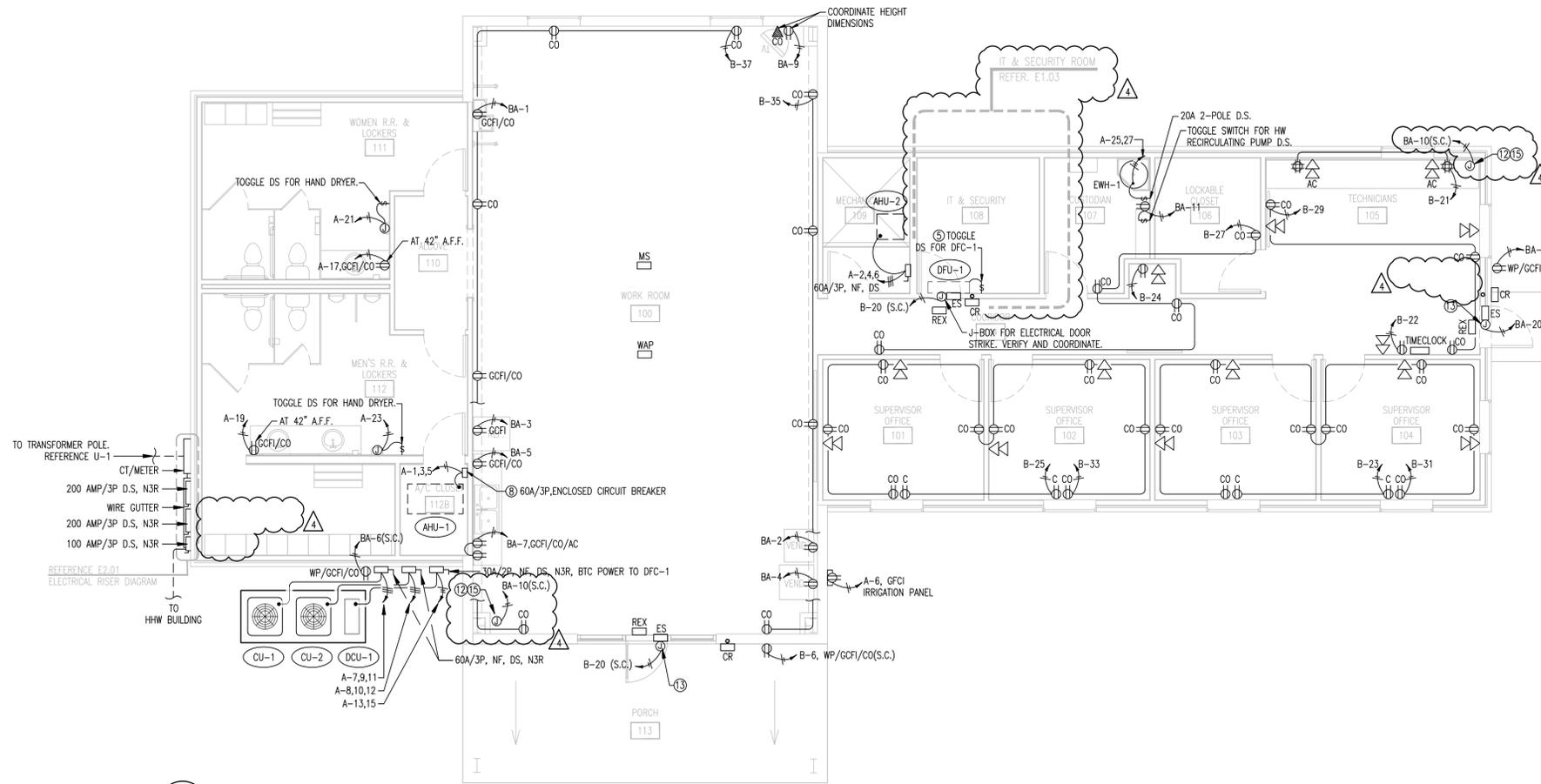
REVISIONS
ADD. #2 11-22-2013
ADD. #3 12-06-2013

PROJECT NO.

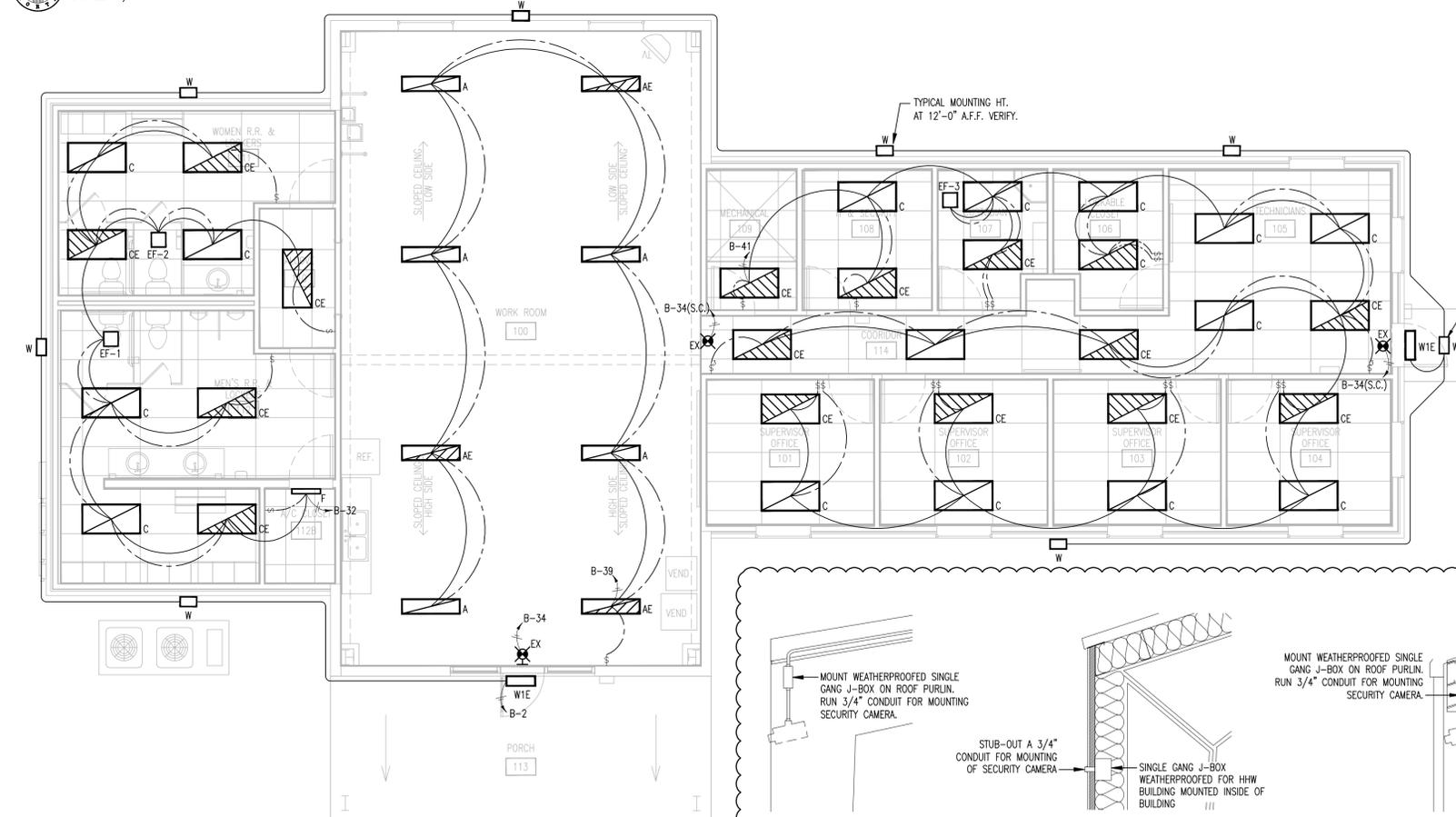
PHASE
CHECK SET DOCUMENTS
DATE
OCT 18, 2013

DESCRIPTION
CULEBRA SITE PLAN

CULEBRA BULKY WASTE
U1



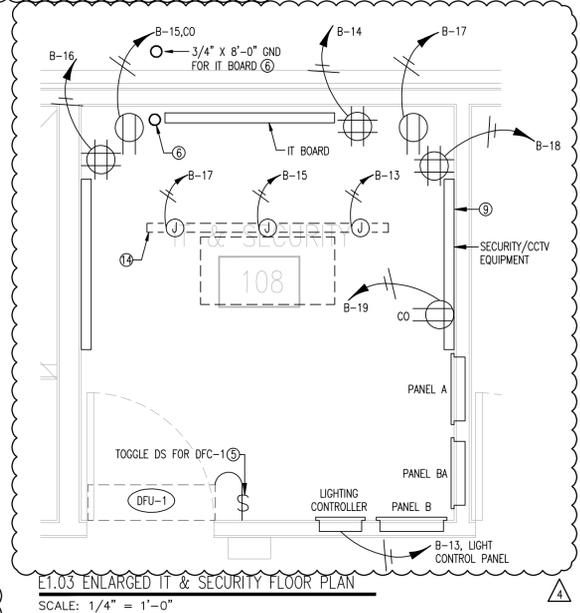
E1.01 ELECTRICAL POWER FLOOR PLAN
SCALE: 1/4" = 1'-0"



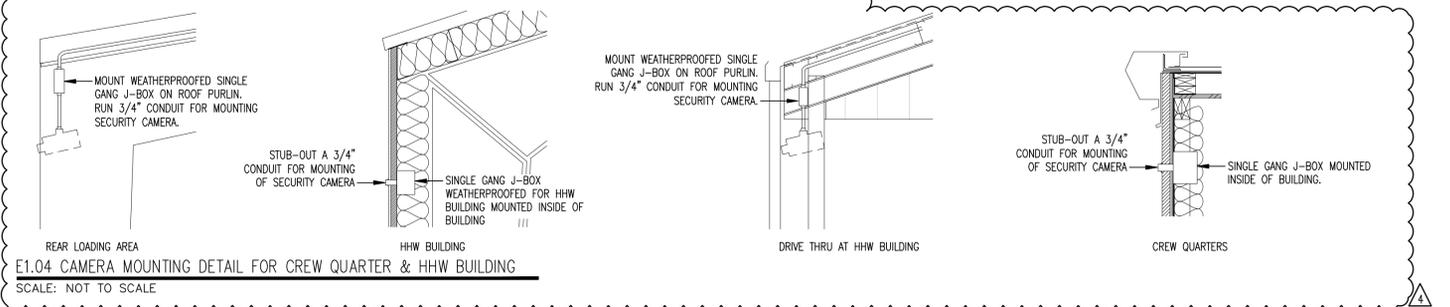
E1.02 ELECTRICAL LIGHTING FLOOR PLAN
SCALE: 1/4" = 1'-0"

- ELECTRICAL NOTES:**
- COORDINATE ALL ELECTRICAL WORK & INSTALLATION WITH OTHER TRADES. PRECEDENCE SHALL BE PROVIDED FOR ALL DUCT WORK INSTALLATIONS ABOVE CEILING.
 - EXTERIOR LIGHTING FIXTURES SHALL BE ON TIME CLOCK/PHOTOCELL CONTROL PANEL.
 - ALL WORK AND INSTALLATION SHALL CONFORM TO THE 2011 NEC, 2012 IECC AND CITY OF SA CODES.
 - GC SHALL COORDINATE AND VERIFY ALL OUTLET (POWER, DATA, COMMUNICATION) LOCATIONS AND REQUIREMENTS WITH ARTCOM & CITY OF SA.
 - DFC-1 IS POWERED FROM DCU-1. PROVIDE TOGGLE DS BY DFC-1.
 - 1" CONDUIT FOR IT EOPT GROUNDING. PROVIDE #6 COPPER GND FROM IT GROUND BUSBAR TO EXTERIOR GROUND ROD, 3/4" X 8'. COORDINATE WITH IT DRAWINGS.
 - PROVIDE CEILING ACCESS FOR ALL REQUIRED ELECTRICAL J-BOX.
 - 60 AMPS/3P ENCLOSED CB ON WALL FOR AHU-1. LABEL CIRCUIT BREAKER FOR AHU-1.
 - SECURITY & CCTV BOARD: PROVIDE 2 J-BOX'S ON TOP OF 4' X 8' BOARD. PROVIDE TWO DEDICATED 20 AMPS CIRCUITS B-26 & B-28 FOR HIRSCH PANEL AND ALTRONIX POWER SUPPLY. PROVIDE TWO DEDICATED DUPLEX RECEPTACLES, CIRCUITS B-30 & B-34 FOR VIDEO SERVER AND BOSCH INTRUSION PANEL. REFERENCE IT PLAN 1-6 FOR DETAIL.
 - THE EC SHALL COORDINATE ALL CIRCUITING AND CONTROLS RUNS OVER WORK ROOM, 100 WITH THE ARCHITECT.
 - ALL ELECTRICAL WORK AND INSTALLATION SHALL CONFORM TO THE 2011 NEC, 2012 IECC AND CITY OF SA CODES.
 - J-BOX FOR SECURITY CAMERAS OUTSIDE. COORDINATE WITH ARTCOM, IT CONSULTANT. REFERENCE IT DRAWINGS FOR SECURITY CAMERA INSTALLATION DETAILS AS REQUIRED.
 - J-BOX FOR ELECTRICAL DOOR STRIKE. VERIFY AND COORDINATE WITH ARTCOM, IT CONSULTANT FOR COMPLETE INSTALLATION OF ELECTRIC DOOR STRIKE SYSTEM.
 - REQUIRED (2) 6-20R AND (1) 5-20R WITH A J-BOX 12" ABOVE 19" RACK AND 8'-0" SO CORDS DOWN WITH RECEPTACLE ON THE END OF THE CORD. IN THE MDF ROOM. VERIFY AND COORDINATE WITH IT DRAWING. MOUNT ALL J-BOX'S ON UNISTRUT SUPPORTED FROM CEILING STRUCTURE WITH HANGER RODS. UNISTRUT MOUNTED IN ROOM JUST ABOVE IT RACK. BTC TO RACK EQUIPMENT.
 - MOUNT A SINGLE GANG J-BOX ON INSIDE OF CREW QUARTER BUILDING, STUB-OUT 3/4" CONDUIT THRU WALL TO THE OUTSIDE FOR MOUNTING OF SECURITY CAMERA. REFERENCE DETAIL E1.04.

ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
C	RECEPTACLES FOR COMPUTER
AC	RECEPTACLES ABOVE COUNTER
BC	RECEPTACLES BELOW COUNTER
CO	CONVENIENCE OUTLET
SC	SPLIT CIRCUIT
BTC	BRANCH TO CONNECTION
WP/GFCI	WEATHERPROOFED/GROUND FAULT CIRCUIT INTERRUPTER
POC	POINT OF CONNECTION
WP/GFCI	WEATHERPROOFED/GROUND FAULT CIRCUIT INTERRUPTER
	TYPICAL CIRCUIT LEG
	TYPICAL SWITCH LEG
	HOMERUN, 120V CIRCUIT W/ GND.
	ISOLATED GND CIRCUIT W/ GND.
	HOMERUN, 208/1P CIRCUIT W/ GND.
	HOMERUN, 208/3P CIRCUIT W/ GND.
	JUNCTION BOX
	DEDICATED ELECTRICAL DUPLEX OUTLET WITH ISOLATED GROUND 18" AFF
	208V, 1P RECEPTACLE
	RECESSED MOUNT PANEL BD.
DATAL SYMBOL LEGEND	
(COORDINATE ALL DATA LOCATION WITH ARCHCOM)	
	CAT 6 CABLE, DATA (TERMINATE 3/4" CONDUIT 12" ABOVE CEILING WITH ELBOW.)
ES	ELECTRIC STROKE
DC	DOOR CONTACT
CR	CARD READER
REX	REQUEST TO EXIT ABOVE DOOR FRAME
MS	MOTION SENSOR
WAP	WIRELESS ACCESS POINT
	• CAT 6 CABLE
	• CAT 6 DATA INSERT
	• SURFACE MOUNTED BOX
	• 10' OF SERVICE LOP NEATLY COILED AND SECURES TO J-HOOK WITH VELCRO



E1.03 ENLARGED IT & SECURITY FLOOR PLAN
SCALE: 1/4" = 1'-0"



E1.04 CAMERA MOUNTING DETAIL FOR CREW QUARTER & HHW BUILDING
SCALE: NOT TO SCALE

ANN L. MCCLAVE
REGISTERED PROFESSIONAL ENGINEER
10-22-2013

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SAN ANTONIO, TEXAS 78227

REVISIONS

ADD. #2	11-22-2013
ADD. #3	12-06-2013

PROJECT NO.

PHASE

CHECK SET DOCUMENTS DATE
OCT 18, 2013

DESCRIPTION
ELECTRICAL LIGHTING & POWER FLOOR PLAN

CREW QUARTER BLDG

E1

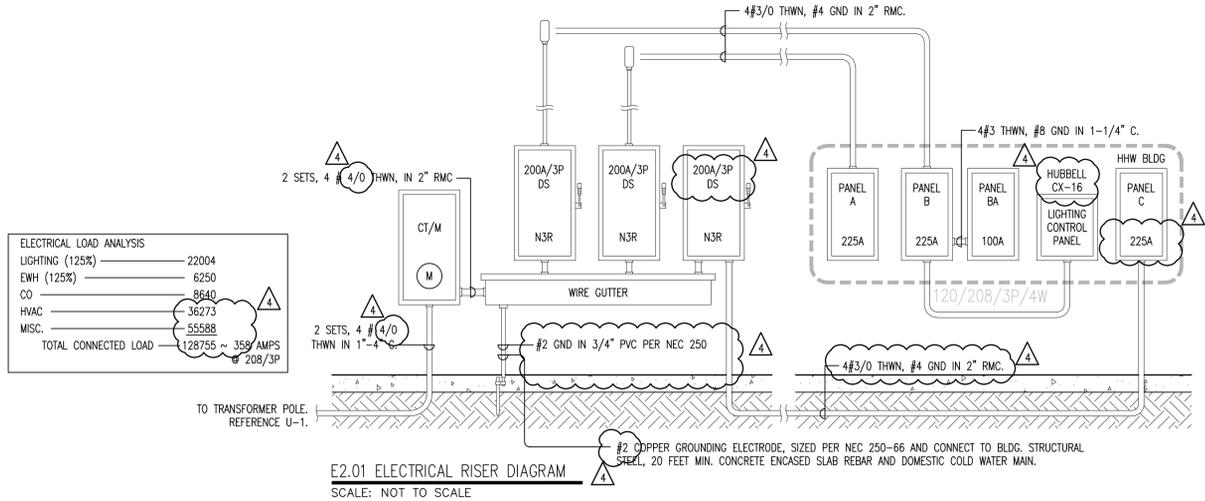
SQ. D TYPE NQ

ITEM	POLES AND AMPS	LOAD SERVING - WATTS						CIRC. NO.	LOAD SERVING - WATTS						POLES AND AMPS	ITEM
		A		B		C			A		B		C			
		LTG	POW	LTG	POW	LTG	POW		LTG	POW	LTG	POW	LTG	POW		
AHU-1	50		5520				1		5115				45	AHU-2		
					5520		3				5115		4			
						5520	5					5115	6			
CU-1	40		3732				7		3720				8	CU-2		
					3732		9			3720			10			
						3732	11				3720		12			
DCU/DFC-1	25		2184				13		937				14	AUTO GATE - BULKY WASTE		
					2184		15			937			16			
RR RECEIPT	20					500	17				937		18			
RR RECEIPT	20		500				19		937				20	AUTO GATE - EXIT		
RR HAND DRYER	25				2000		21			937			22			
RR HAND DRYER	25					2000	23				937		24			
EW-1	20		1500				25		600				26	IRRIGATION PANEL		
					1500		27						28	SPARE		
SPARE	20						29						30	SPARE		
SPARE	20						31						32	SPARE		
SPARE	20						33						34	SPARE		
SPARE	20						35						36	SPARE		
SPARE	20						37						38	SPARE		
SPARE	20						39						40	SPARE		
SPARE	20						41						42	SPARE		
TOTAL LIGHTING (VA)																
TOTAL POWER (VA)																
CONNECTED LOAD (VA)																

① LOAD NOT INCLUDED. HEATING IS HIGHER.

SQ. D TYPE NQ

ITEM	POLES AND AMPS	LOAD SERVING - WATTS						CIRC. NO.	LOAD SERVING - WATTS						POLES AND AMPS	ITEM
		A		B		C			A		B		C			
		LTG	POW	LTG	POW	LTG	POW		LTG	POW	LTG	POW	LTG	POW		
EDF	20		960				1		1200				20	VENDING MACHINE		
REFRIG	20				720		3			1200		540	20	VENDING MACHINE		
APPLIANCE	20					1500	5						20	CO - EXTERIOR		
APPLIANCE	20		1500				7		540				20	CO - CANOPY POLES		
TV	20				240		9						20	SECURITY CAMERAS		
EW-1 REFRIG. PUMP	20					720	11				480		20	SECURITY CAMERAS DRIVE THRU		
IT BOARD J-BOX	20		720				13				480		20	SECURITY - SITE		
IT BOARD J-BOX	20				720		15						20	SPARE		
IT BOARD J-BOX	20					720	17						20	SPARE		
SPARE	20						19						20	SPARE		
SPARE	20						21						20	SPARE		
SPARE	20						23						20	SPARE		
SPACE	20						25						20	SPARE		
SPACE	20						27						20	SPARE		
SPACE	20						29						20	SPARE		
TOTAL LIGHTING (VA)																
TOTAL POWER (VA)																
CONNECTED LOAD (VA)																



SQ. D TYPE NQ

ITEM	POLES AND AMPS	LOAD SERVING - WATTS						CIRC. NO.	LOAD SERVING - WATTS						POLES AND AMPS	ITEM
		A		B		C			A		B		C			
		LTG	POW	LTG	POW	LTG	POW		LTG	POW	LTG	POW	LTG	POW		
DRIVE THROUGH LIGHT	20		1080				1						20	EXTERIOR WALL PACKS		
DRIVE THROUGH SIGN	20				1200		3						20	MONUMENT LIGHTING		
DRIVE THROUGH SIGN	20					1200	5				1280		20	SITE LIGHTING		
HHW WALLPACKS	20		439				7				960		20	SITE LIGHTING		
HHW WALLPACKS REAR LOADING LIGHTING	20				864		9				1280		20	SITE LIGHTING		
CANOPY MOUNTED WALL PACKS	20					800	11						20	SPARE		
HUBBELL LIGHTING CONTROL PANEL	20		600				13				720		20	QUAD (ITSD BOARD)		
CO - COMPUTER ROOM	20				180		15				720		20	QUAD (ATT PHONE BOARD)		
CO - COMPUTER ROOM	20					180	17				720		20	QUAD (SECURITY/CCTV)		
CO - COMPUTER ROOM	20		180				19				720		20	ELECTRIC DOOR STRIKES		
COMPUTER RECEPTACLES	20				720		21				120		20	EMPLOY TIMECLOCK		
COMPUTER RECEPTACLES	20					720	23					1440	20	SPARE		
COMPUTER RECEPTACLES	20		720				25				720		20	HIRSCH PANEL ②		
CO	20				720		27				720		20	ALTRONIX POWER SUPPLY ②		
CO - OFFICE 105	20					540	29				720		20	VIDEO SERVER ②		
CO - OFFICE 103,104	20		1440				31				528	288	20	ITSD BOARD		
CO - OFFICE 101,102	20				1440		33				720		20	BOSCH INTRUSION PANEL ②		
CO - WORKROOM 100	20					720	35						20	SPARE		
CO - WORKROOM 100	20		900				37				4240		20	PANEL BA		
LIGHTING - WORKROOM 100	20				896		39						20			
LIGHTING OFFICE/EF-3	20					180	41						20			
TOTAL LIGHTING (VA)																
TOTAL POWER (VA)																
CONNECTED LOAD (VA)																

① CONTROL VIA HUBBELL CX LIGHTING CONTROL PANEL WITH TIMECLOCK AND PHOTOCELL (16) ZONES. COORDINATE SETPOINTS REQUIRED WITH CITY OF SAN ANTONIO.

HHW BLDG

ITEM	POLES AND AMPS	LOAD SERVING - WATTS						CIRC. NO.	LOAD SERVING - WATTS						POLES AND AMPS	ITEM
		A		B		C			A		B		C			
		LTG	POW	LTG	POW	LTG	POW		LTG	POW	LTG	POW	LTG	POW		
BIG FAN	15		576				1						15	BIG FAN		
					576		3				576		15			
						576	5						15			
LIGHTING	20		1512				7						20	EW-2		
LIGHTING	20				1512		9				720		20	ITSD BOARD RECEPT.		
LIGHTING	20					1512	11						20	SPARE		
AUTO GATE	15		937				13				720		20	SPARE		
							15						20	SPARE		
							17						20	EXTERIOR CO'S		
AUTO GATE	15		937				19				1040		20	EXPLOSION PROOF CONTAINER		
							21				1040		20	EXPLOSION PROOF CONTAINER		
							23				1040		20	EXPLOSION PROOF CONTAINER		
EXIT LIGHT	20						25				1640		20	OVERHEAD DOOR		
SECURITY CAMERAS	20		960				27				960		20	OVERHEAD DOOR		
OVERHEAD DOOR	20					960	29				960		20	OVERHEAD DOOR		
OVERHEAD DOOR	20		960				31				960		20	OVERHEAD DOOR		
SPARE	20						33						20	SPARE		
							35						20	SPARE		
							37						20	SPARE		
							39						20	SPARE		
							41						20	SPARE		
							42						20	SPARE		
TOTAL LIGHTING (VA)																
TOTAL POWER (VA)																
CONNECTED LOAD (VA)																

MARK	MARK	REMARK(120V)	LAMPS	LAMPS/FIXTR.
A	WILLIAMS - GLA-4-428T5-UP5-EB2/2	AIRCRAFT CABLE SUSPENDED 18" A.F.F. VERIFY	28WTS	4
AE	WILLIAMS - GLA-4-428T5-UP5-EB2/2-EM	W/EM. BALL. AIRCRAFT CABLE SUSPENDED 18" A.F.F. VERIFY	28WTS	4
B	NOT USED	-	-	-
C	WILLIAMS - 50G-524-228T5-SA12125-EB2	LAY-IN	28WTS	2
CE	WILLIAMS - 50G-524-228T5-SA12125-EB2-EM	LAY-IN, W/EM. BALL.	28WTS	2
D	WILLIAMS - GL4-454T5H-UP5	PENDANT MOUNT USING ALLTHREAD @ 20" A.F.F. WITH UP LIGHT	F54T5/47W/841/ECO	4
DE	WILLIAMS - GL4-454T5H-UP5-EM	PENDANT MOUNT USING ALLTHREAD @ 20" A.F.F. WITH UP LIGHT W/EM. BALL.	F54T5/47W/841/ECO	4
E	WILLIAMS - 96-4-254-PC	4' DRIVE THOUGH AND REAR LOADING AREAS	54WTSHO	2
EE	WILLIAMS - 96-4-254-PC-EM	4' DRIVE THOUGH AND REAR LOADING AREAS W/EM. BALL.	54WTSHO	2
EX	ISOLITE - RL-EM-R-WW	EXIT SIGN WITH EMERGENCY	LED	LED
F	WILLIAMS - 76-2-124T5H-WG7611-EB1-UNV	2' FLOUR. WALL MOUNT WITH WIRE GUARD	24WTSHO	1
G	KIM - LTV22-WW70PMH-120-RG10	MONUMENT SIGN	70W MH	1
P	SPAULDING - RCS-X-P32-H3	SITE LIGHTING	320W MH	1
P2	SPAULDING - RCS-X-P32-H3	SITE LIGHTING	320W MH	2
P3	HUBBELL - WGC-100H	MOUNTED ON CANOPY COLUMN	100W MH	1
POLES (P,P2)	SPAULDING - SSS-			



10-22-2013

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**CITY OF SAN ANTONIO SOLID WASTE
MANAGEMENT DEPARTMENT**
CULEBRA HHW AND BULKY WASTE FACILITY
7030 CULEBRA ROAD
SAN ANTONIO, TEXAS 78227

REVISIONS
ADD. #2 11-22-2013
ADD. #3 12-06-2013

PROJECT NO.
13-01

PHASE
CONSTRUCTION DOCUMENTS

DATE
JUNE 2012

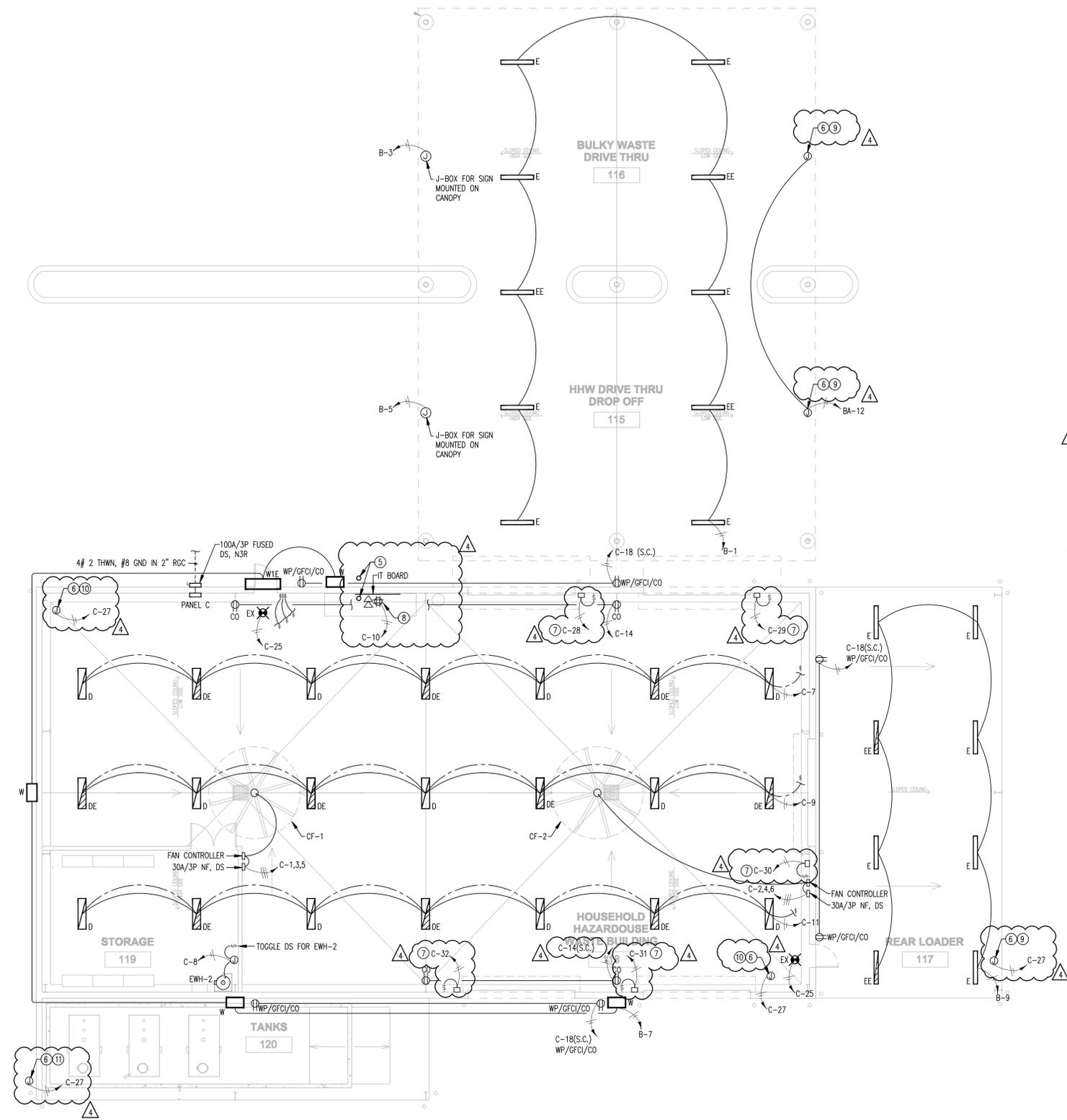
DESCRIPTION
ELECTRICAL LIGHTING & POWER FLOOR PLAN

H. HAZARDOUS WASTE BLDG

E3

ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
C	RECEPTACLES FOR COMPUTER
AC	RECEPTACLES ABOVE COUNTER
BC	RECEPTACLES BELOW COUNTER
CO	CONVENIENCE OUTLET
SC	SPLIT CIRCUIT
BTC	BRANCH TO CONNECTION
WP/GFCI	WEATHERPROOFED/GROUND FAULT CIRCUIT INTERRUPTER
POC	POINT OF CONNECTION
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(---)	TYPICAL CIRCUIT LEG
(---)	TYPICAL SWITCH LEG
(---)	HOMERUN, 120V CIRCUIT W/ GND.
(---)	ISOLATED GND CIRCUIT W/ GND.
(---)	HOMERUN, 208/1P CIRCUIT W/ GND.
(---)	HOMERUN, 208/3P CIRCUIT W/ GND.
(---)	JUNCTION BOX
(---)	DEDICATED ELECTRICAL DUPLEX OUTLET WITH ISOLATED GROUND 18" AFF
(---)	208V, 1P RECEPTACLE
(---)	RECESSED MOUNT PANEL BD.
DATA SYMBOL LEGEND (COORDINATE ALL DATA LOCATION WITH ARCH/COM)	
(---)	CAT 6 CABLE, DATA (TERMINATE 3/4" CONDUIT 12" ABOVE CEILING WITH ELBOW.)

- ELECTRICAL NOTES:**
- COORDINATE ALL ELECTRICAL WORK & INSTALLATION WITH OTHER TRADES. PRECEDENCE SHALL BE PROVIDED FOR ALL DUCT WORK INSTALLATIONS ABOVE CEILING.
 - EXTERIOR LIGHTING FIXTURES SHALL BE ON TIME CLOCK/PHOTOCELL CONTROL VIA LIGHTING CONTROL PANEL.
 - ALL WORK AND INSTALLATION SHALL CONFORM TO THE 2011 NEC, 2012 IECC AND CITY OF SA CODES.
 - GC SHALL COORDINATE AND VERIFY ALL OUTLET (POWER, DATA, COMMUNICATION) LOCATIONS AND REQUIREMENTS WITH ART/COM & CITY OF SA.
 - 1" CONDUIT FOR IT EQPT GROUNDING. PROVIDE #6 COPPER GND FROM IT GROUND BUSBAR TO EXTERIOR GROUND ROD, 3/4" X 8"
 - JBOX FOR SECURITY CAMERAS OUTSIDE. COORDINATE WITH ART/COM. IT CONSULTANT. REFERENCE IT DRAWINGS FOR SECURITY CAMERA INSTALLATION DETAILS AS REQUIRED.
 - COORDINATE OVERHEAD REQUIREMENT WITH MANUFACTURER.
 - DEDICATED QUADPLEX FOR IT BOARD. REFERENCE IT DRAWING T-6 FOR DETAIL.
 - PROVIDE A WEATHERPROOF SINGLE GANG J-BOX AT EACH CAMERA LOCATION. MOUNT TO PURLIN. RUN A 3/4" CONDUIT AT BOTTOM FOR CONNECTION TO SECURITY CAMERA. FIELD VERIFY LENGTH OF CONDUIT REQUIRED. REFERENCE DETAIL E1.04.
 - PROVIDE A WEATHERPROOF SINGLE GANG J-BOX ON INSIDE OF BUILDING. ROUTE A 3/4" CONDUIT THRU WALL TO ALLOW FOR MOUNTING OF SECURITY CAMERA. REFERENCE DETAIL E1.04.
 - PROVIDE A WEATHERPROOF SINGLE GANG J-BOX ON INSIDE OF WALL FOR CAMERA. RUN A 3/4" CONDUIT THRU WALL TO ALLOW FOR MOUNTING OF SECURITY CAMERA.



E3.01 ELECTRICAL POWER AND LIGHTING FLOOR PLAN
SCALE: 1/8" = 1'-0"

MARK — S-1/10" DIA. — NECK 275 CFM — CFM					
MARK	TYPE	FACE	MOUNTING	MANUFACTURER MODEL #	REMARKS/OPTIONS
S-1	SUPPLY	24x24	T-BAR MOUNT	PRICE-SCDA	1,2, & 3
S-2	SUPPLY	SEE PLAN	SURFACE MOUNT	PRICE-CVD	1,2,3 & 4
S-3	SUPPLY	SEE PLAN	SURFACE MOUNT	PRICE-6200	1,2,3 & 4
R-1	RETURN	SEE PLAN	SURFACE MOUNT	PRICE-60	1
R-2	RETURN	SEE PLAN	SURFACE MOUNT	PRICE-630	1
TG-1	TRANSFER GRILLE	SEE PLAN	SURFACE MOUNT	PRICE-80	1

- NOTES
- ALL DIFFUSERS AND GRILLES SHALL HAVE COLOR TO MATCH CEILING COLOR FINISH, AND BE INSULATED.
 - M.C. SHALL PROVIDE SQUARE TO ROUND TRANSITIONS WHERE REQUIRED.
 - M.C. SHALL INSTALL SECTORIZING BAFFLE TO MAKE DIFFUSER THROW PATTERN 3-WAY WHERE SHOWN ON PLAN. ATTACH PER MANUFACTURER'S RECOMMENDATIONS TO ENSURE THAT BAFFLE DOES NOT VIBRATE OR RELOCATE DURING OPERATION.

M2.01 AIR DIFFUSER SCHEDULE

SCALE: NONE

MARK	SUPPLY AIR		MIN. O.A.	COOLING CAPACITY (MIN.)				HEATING - ELECTRICAL		ELECTRICAL		MFG. & MODEL	NOTES	NOMINAL TONS	EER/SEER	WEIGHT	
	CFM	E.S.P.		TOTAL MBH	SENS. MBH	EAT	LAT	KW	VOLTS/PHASE	MCA	MAX FUSE						
AHU-1	2000	0.50	150	71.21	55.56	77.1	63.5	11.25	208	3	46.0	50	TRANE: TWE090	2,3,4,5,7,8 & 9	7.5	-	360
AHU-2	2000	0.50	85	56.30	44.39	76.1	63.0	11.0	208	3	42.59	45	TRANE: GAMS40C60M51SA	2,3,4,5,7,8 & 9	5.0	-	170
CU-1	2000	-	-	71.21	55.56	-	-	-	208	3	31.1	40	TRANE: TTA07303	1,6 & 9	6.0	11.2/-	365
CU-2	2000	-	-	56.30	44.39	-	-	-	208	3	31.0	40	TRANE: 4TTA3060D3	1,6 & 9	5.0	10.5/13.0	226

- NOTES
- DISCONNECT AND WP/GFI CONVENIENCE OUTLETS FOR ALL CONDENSING UNIT'S SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
 - PROVIDE 7-DAY PROGRAMABLE THERMOSTAT.
 - 1" MATT FACED INSULATION FILTERS SHALL BE PROVIDED/INSTALLED AT UNIT'S
 - PROVIDED WITH SMOKE DETECTORS IN THE RETURN AIR M.C. SHALL VERIFY WITH LOCAL CODE FOR EXACT LOCATION OF DETECTORS.
 - PROVIDE MOTORIZED DAMPER FOR OUTDOOR AIR INTAKE HOOD.
 - PROVIDE HAIL GUARD.
 - PROVIDE NONCORROSIVE DRAIN PAN.
 - 2" MERV 8 FILTER.
 - SINGLE POINT POWER CONNECTION.

M2.02 AIR HANDLING AND CONDENSING UNITS SCHEDULE

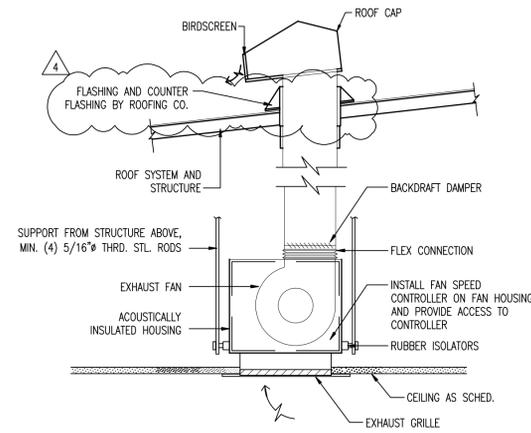
SCALE: NONE

INDOOR UNIT MARK	SERVICE	OUTDOOR UNIT MARK	MITSUBISHI MODEL	COOLING			ELECTRICAL DATA		FAN COIL UNIT						CONDENSING UNIT						
				CFM	MBH	SEER	VOLTS	PHASE	MCA	MOCP	ELECTRICAL HEAT KW.	W. IN.	D. IN.	H. IN.	WT. LB.	MCA	MOCP	W. IN.	D. IN.	H. IN.	WT. LB.
DFC-1	ELECTRICAL ROOM	DCU-1	MSY-D30NA MUY-D30NA	848	30.7	16.0	208	1	NA	NA	-	46	11-5/8"	14-3/8"	40	21.0	25.0	33"	13"	33-7/16"	126

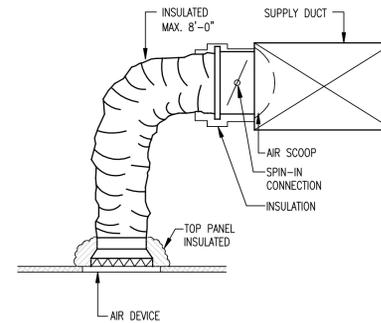
- NOTES
- COOLING CAPACITY--SENSIBLE CAPACITY RATED IN ACCORD WITH ARI 210, 90°F AMBIENT.
 - PRECHARGED REFRIGERANT PIPING.
 - CONDENSATE PUMP KIT, MINIMUM 10' LIFT.
 - INDOOR UNIT IS POWERED FROM THE OUTDOOR UNIT.
 - REFRIGERANT-R-410A.
 - SEPARATE ELECTRICAL CIRCUITS REQUIRED FOR INDOOR AND OUTDOOR UNITS.
 - 24 VOLT REMOTE HARD WIRED THERMOSTAT REQUIRED.

M2.03 DUCTLESS SPLIT SYSTEM SCHEDULE

SCALE: NONE



M2.04 EXHAUST FAN AND ROOF CAP DETAIL
SCALE: NOT TO SCALE



M2.05 FLEXIBLE DUCT TAP DETAIL
SCALE: NOT TO SCALE

FAN NO.	SERVICE	MANUF. & MODEL	CFM	HP	S.P.	RPM	SONES	VOLTS-PH-HZ	NOTES
EF-1	MEN T/R	GREENHECK SP-A290	280	108 W.	0.25	1050	2.7	120-1-60	1,2,3 & 4
EF-2	WOMEN T/R	GREENHECK SP-A190	140	180 W.	0.25	1400	2.5	120-1-60	1,2,3 & 4
EF-3	CUSTODIAN	GREENHECK SP-A190	140	180 W.	0.25	1400	2.5	120-1-60	1,2,3 & 4

- NOTES
- ALL EXHAUST OPENINGS SIZES AND LOCATIONS SHALL BE VERIFY BY THE MECHANICAL CONTRACTOR.
 - ALL FANS SHALL BE UL 705 AND AMCA RATED FOR SOUND AND PERFORMANCE.
 - INTERLOCK WITH LIGHT FIXTURE IN TOILET AREA.
 - PROVIDE/INSTALL ROOF JACK GREENHECK MODEL RJ-6x9.

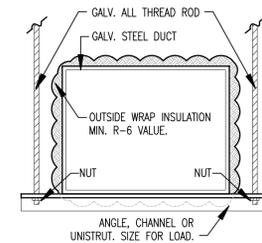
M2.06 EXHAUST FAN SCHEDULE

SCALE: NONE

FAN NO.	SERVICE	MANUF. & MODEL	DIM.	AIRFOIL FINISH	NUM. BLADES	HP	WEIGHT	MAXIMUM SPEED	WINGLET	MAX AMP.	VOLTS-PH-HZ
CF-1	HHW	BIG ASS FAN BASIC 6	12 FT.	MILL FINISH ALUMINUM	6	1.0	166 LBS.	111 RPM	POWERFOIL WINGLET (SAFETY YELLOW)	10.0	240-3-60
CF-2	HHW	BIG ASS FAN BASIC 6	12 FT.	MILL FINISH ALUMINUM	6	1.0	166 LBS.	111 RPM	POWERFOIL WINGLET (SAFETY YELLOW)	10.0	240-3-60

M2.07 COMMERCIAL FAN SCHEDULE

SCALE: NONE



M2.08 TRAPEZE DUCT HANGER DETAIL
SCALE: NOT TO SCALE



10-22-2013

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CITY OF SAN ANTONIO SOLID WASTE MANAGEMENT DEPARTMENT
CULEBRA HHW AND BULKY WASTE FACILITY
7030 CULEBRA ROAD
SAN ANTONIO, TEXAS 78227

REVISIONS

- ADD. #2 11-22-2013
ADD. #3 12-06-2013

PROJECT NO.

PHASE

CHECK SET DOCUMENTS
DATE
OCT 18, 2013

DESCRIPTION

MECHANICAL FLOOR PLAN

CREW QUARTER BLDG

M2

**CHANGES AND CLARIFICATIONS TO THE ARCHITECTURAL
DOCUMENTS**

City of San Antonio

Capital Improvements Management Services Department – Vertical Division

114 W. Commerce, 4th Floor

San Antonio, TX 78205

See attached documents prepared by Debra J. Dockery, Architect, P.C.



DEBRA J. DOCKERY, ARCHITECT, P.C.

CITY OF SAN ANTONIO

Dec 9, 2013

CAPITAL IMPROVEMENT MANAGEMENT SERVICES

PROJECT NAME: CULEBRA HHW AND BULKY WASTE FACILITY

ADDENDUM NO. FOUR

This addendum shall be included in and be considered part of the plans and specifications for the above named project. The contractor shall be required to sign an acknowledgment of the receipt of this addendum at the time he receives it. Architectural portion of Addenda 4 consists of 1 page and one 8 1/2X 11 drawing.

ITEM REFERENCE NO.

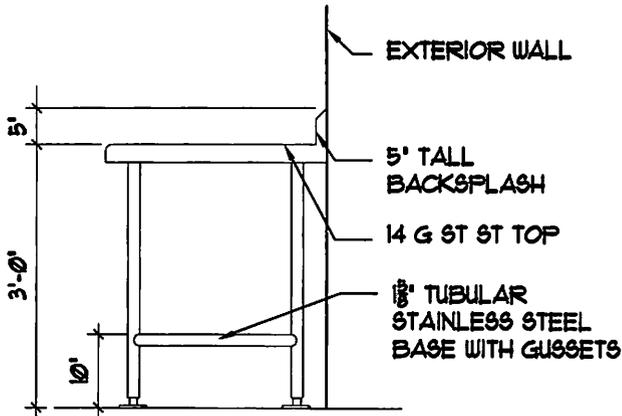
REVISION

- | | |
|----------------|---|
| 1) Addenda 2 | Sheet A9.02. Roof curb detail 3 provided in Addenda 2 is not in the scope of work for this job. See MEP portion of Addenda 4 for roof curb detail. |
| 2) Addenda 2 | Remove #12 from Addenda 2. |
| 3) Sheet A9.00 | Elevation 15, Replace work countertop with attached countertop elevation, section and the following specification. Working top to be 14 gauge stainless steel. All seams and corners to be welded closed and finished. All edges to be turned down 1 1/2" at 90 degrees and hemmed. |



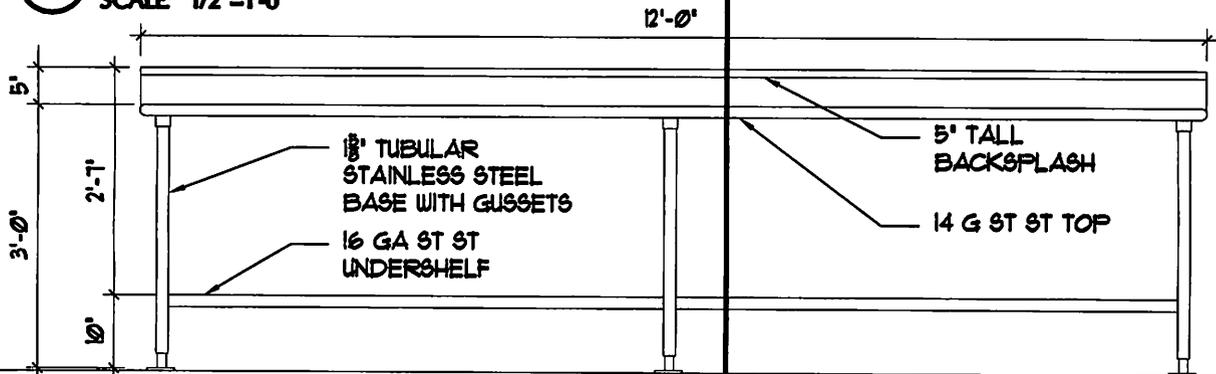
118 Broadway, Suite 516, San Antonio, Texas Phone: 210-225-6130 Fax 210-225-7588

www.debradockeryarchitects.com



02 SECTION
SCALE 1/2"=1'-0"

02/A9.00
ADD4



01 ELEVATION
SCALE 1/2"=1'-0"

JOB # / PROJECT TITLE

13-01
CULEBRA HHW AND BULKY WASTE FACILITY
COSA SWMD

SHEET TITLE / #

INTERIOR ELEVATIONS
SHEET A9.00

DRAWING TITLE

ADDENDA #4

Debra J. Dockery, Architect, P.C.

118 BROADWAY, SUITE 516
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T: 210.225.6130
F: 210.225.7588

DATE

12-09-13

CADD FILE NAME

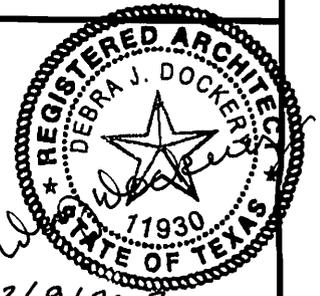
ADDENDA 3

SHEET

1

OF

1



12/9/2013