



GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUÅHAN
P.O.BOX 2977 • HAGÁTÑA, GUAM U.S.A. 96932-2977

October 13, 2022

AMENDMENT NO.: V
TO
INVITATION FOR MULTI-STEP BID NO.: GPA-042-22
FOR
FADIAN PUBLIC PARKING LOT SOLAR CANOPY

Prospective Bidders are hereby notified of the following inclusions and response to inquiries received from Bidder No. 8 dated September 16, 2022 and September 20, 2022, Bidder No. 6 dated September 21, 2022, October 04, 2022:

INCLUSION:

Under Volume IV – Appendices *ADD*.
Pages 206c thru 206c.10 (Appendix T) (see attached)

CHANGES:

1. Under Volume II – Technical and Functional Requirements:

REMOVE Page 115a of 212 and *REPLACE with* Page 115b of 212, Under 3.3.7 Procurement and Delivery of Parking Canopy, PV System, and Other Necessary Equipment K. (see attached):

Verbiage is changed:

FROM:

K. Remote Output Monitoring:

The PV system shall include meters and other auxiliary devices to allow for the monitoring of PV system output. Also included are the necessary licenses for any software application.

TO NOW READ:

K. Remote Output Monitoring:

The PV system shall include meters and other auxiliary devices to allow for the monitoring of PV system output. Metering provision shall be installed at three location: PV batter output, and interconnection point. Also included are the necessary licenses for any software application

Bidder No. 8 inquiries dated September 16, 2022:

1. QUESTION:

- Please provide followings as a pdf file format:
- As-Built Drawings of all the underground facilities including but not limited to power line, water line, sewer line, drainage trenches, communication line, CATV line, etc.
- As-Built Drawings of manholes / handholes for power line
- As-Built Drawings of manholes / handholes for communication line
- As-Built Drawings and Calculations of existing grounding system

RESPONSE:

Refer to the newly added as-built drawings in Appendix T.
See **INCLUSION** above

2. QUESTION:

(Page 199 of 212) APPENDIX N BID SCHEDULE

Bid Schedule/ Price Proposal – Fadian Public Access Public Parking Lot Solar Canopy										
Item	Description	Unit	Qty	Unit Cost			Total Cost			Total Cost
				Material	Labor	Equipment	Material	Labor	Equipment	
Basic Bid										
1	Mobilization	LS	1							
2	Permits, Bonds and Codes	LS	1							
3	Construction Site Survey	LS	1							
4	Foundation Design	LS	1							
5	Interconnection Equipment	LS	1							
6	Installation Design	LS	1							
7	Procurement and Delivery	LS	1							
8	On-Site PV Canopy Construction, Installation and Interconnection	LS	1							
9	Commissioning & Performance Testing	LS	1							
10	Demobilization	LS	1							
11	O&M and O&M Training	LS	1							
12	Warranties	LS	1							
13	Documentation	LS	1							
14	PV Canopy Location Option 1	LS	1							
Basic Bid Total Cost:										\$

Please confirm that Bid Item 14 is same as Basic Bid Total Cost.

RESPONSE:

No. Bid Item 14 is not the same as the Basic Bid Total Cost. The costs for Item 14: The PV Canopy Location Option 1 encompasses all *additional* costs for Option 1 that do not fall under the other Basic Bid Items 1-13. The Basic Bid Total Cost is the sum of the costs of all the Basic Bid Items 1-14. Another purpose of item 14 is in the event the proposed basic option changes from Option 1 to another option in the future (i.e. Additive Bid Item A – Option 2), the Option 1 cost in Basic Bid Item 14 will be subtracted from the Basic Bid Total Cost and substituted with the cost of Additive Bid Item A – Option 2.

Bidder No. 8 inquiries dated September 20, 2022:

3. QUESTION:

Please confirm if ITC (Investment Tax Credit) is applicable for this bid. Based on PEC's understanding, the Contractor is NOT eligible for ITC as the Contractor is not the Owner of this asset and GPA (the Owner) is NOT eligible for ITC as GPA is NOT a taxpayer.

RESPONSE:

The Inflation Reduction Act of 2022 (IRA) allows public, non-tax paying entities, such as GPA, to receive the Investment Tax Credits associated with this renewable energy project.

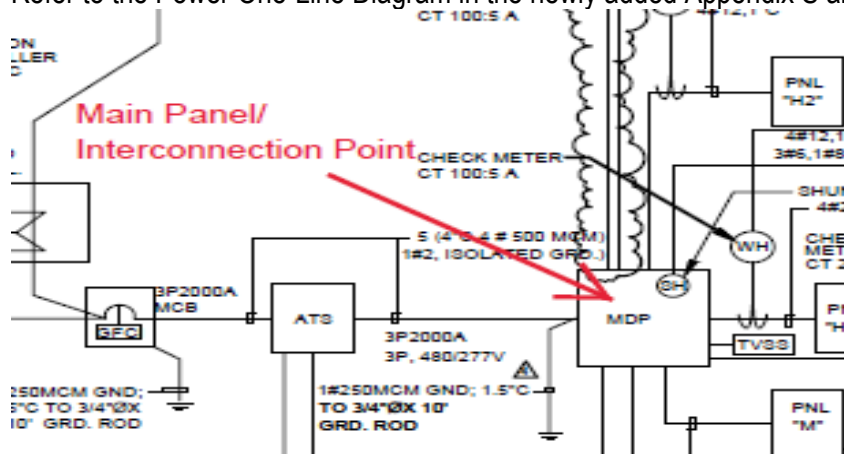
Bidder No. 6 inquiries dated September 21, 2022:

1. QUESTION:

Can GPA provide a single-line diagram on the planned interconnection point?

RESPONSE:

Refer to the Power One-Line Diagram in the newly added Appendix S and the diagram below:



2. QUESTION:

Can GPA provide the as-built drawings of the parking lot showing utilities, storm drains, electrical, water and sewer of the Fadian facility?

RESPONSE:

Refer to the newly added as-built drawings in Appendix T.
See ***INCLUSION*** above

3. QUESTION:

Has GPA determined a location for the electrical equipment shelter?

RESPONSE:

The location of the equipment shelter shall be based on the bidder's design. Note that GPA may choose not to proceed with the Electrical Shelter Additive Bid Item if it is deemed unnecessary in the final design.

4. QUESTION:

In section 2.12. Award of Contract, it reads in part, "The Contract will be awarded to the BIDDER evaluated as being qualified, with the lowest total Priced Proposal for the basic bid and additive bid (if applicable)." Because the scope of work is not specific as to what size the PV system should be only that it shall be a minimum size of 68 KWdc, certainly each bidder will be proposing different size solar canopy systems. With that, will GPA be determining lowest price by calculating price per watt proposed per option? Or, shall all bidders bid a 68 KWdc PV system size across the board for Option 1?

RESPONSE:

The PV system shall have a minimum size of 68 KWdc. Bidders may propose larger PV systems, however, the canopy aggregate footprint shall be no larger than 8,900 square feet for the Option 1 location. GPA will determine the lowest bid price based on the calculation for price per KWdc indicated on Item E on Page 200 of 212.

Bidder No. 6 inquiries dated October 04, 2022:

1. QUESTION:

On behalf of our company, I am officially requesting an extension to the submission deadline for the Invitation for Multi-Step Bid No.: GPA-042-22 Fadian Public Parking Lot Solar Canopy Design and Construction.

RESPONSE:

Kindly refer to Amendment No. III; dated October 04, 2022.

All other Terms and Conditions in the bid package shall remain unchanged and in full force.


for JOHN M. BENAVENTE, P.E.
 General Manager

**Fadian Public Parking Lot Solar Canopy Project Design and Construction
Volume II: Technical and Functional Requirements**

The CONTRACTOR shall submit to GPA the approved final design drawings in the following formats: hard copy of appropriate size, AutoCAD and PDF before construction commences.

*** 3.3.7. Procurement and Delivery of Parking Canopy, PV System, and Other Necessary Equipment**

The CONTRACTOR shall be responsible for the procurement and delivery of all PV system, PV mounting equipment, parking canopy structure materials and other necessary equipment to construct and install this project in a turn-key manner.

The solar canopy shall comply with the following general specifications:

- A. System Size:
The rated capacity of the PV system shall be at minimum 68 KWdc.
- B. PV Module Tier 1:
PV Modules shall be Tier 1 PV modules
- C. High Availability
The design shall consider systems with maintenance (routing preventative maintenance, inspections, tests, & adjustments) schedules that minimize interruption to normal system operations to allow for system high availability
- D. Guarantee of Minimum Generation:
PV modules shall have at least a 10-year limited warranty that modules will generate no less than 90% and 20-year limited warranty that modules will generate no less than 80% of rated output under Standard Testing Conditions (STC).
- E. Canopy Structure Height:
The PV canopies shall have the proper height clearances for parking lot traffic, including garbage trucks and freight trucks.
- F. PV Source Circuit OCPDs:
All Overcurrent Protection Devices in the PV system shall have a minimum overcurrent size that is no less than 125% of the maximum PV circuit current
- G. Footprint:
The solar canopy structure shall be erected within the public-access parking lot of the Gloria B. Nelson Public Service Building, and all associated facilities and equipment shall be placed entirely within GPA's property.
- H. Marine, Anti-Corrosion Coating on all Metal Parts on Canopy Structure:
Any metal parts, if any, on the canopy structure must have effective protection of anti-corrosion coating suitable for wet, salty, sunny, corrosive, or abrasive environments or conditions.
- I. Typhoons and Extreme Weather:
Due to the high potential for periodic extreme winds and the parking canopy being a structure exposed to those winds, the canopy and PV racking system must be designed to withstand 170 mph (76 m/s) sustained winds, and 195 mph (87 m/s) gusts.
- J. Workmanship Warranty:
All construction and installation work under this project proposal shall include one (1) year workmanship warranty.
- * K. Remote Output Monitoring:
The PV system shall include meters and other auxiliary devices to allow for the monitoring of PV system output. Metering provision shall be installed at three location: PV batter output, and interconnection point. Also included are the necessary licenses for any software application**

APPENDIX T AS-BUILT DRAWINGS

GENERAL NOTES

- ELECTRICAL LAYOUT DRAWINGS ARE PARTIALLY DIAGRAMMATIC. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND HVAC FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES, STRUCTURAL AND ARCHITECTURAL DETAILS, AND LOCATIONS OF PIPES AND STRUCTURAL STEEL. INSTALL THE ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH PIPES, STRUCTURAL STEEL OR OTHER SYSTEMS. LOCATE LIGHTING SYSTEMS SYMMETRICALLY IN PROPER RELATION TO FINISHED AREAS EXCEPT WHERE DIMENSIONED ON THE DRAWINGS OR LOCATED ON REFLECTED CEILING PLANS. COORDINATE WITH OTHER TRADES FOR PROPER INSTALLATION OF WORK AND FOR TIMELY EXECUTION OF CONSTRUCTION.
- FURNISH ALL LABOR, EQUIPMENT, APPLIANCES, MATERIALS AND PERFORM OPERATIONS REQUIRED FOR COMPLETE INSTALLATION OF SYSTEMS SPECIFIED IN ACCORDANCE WITH DRAWINGS, CODES, ORDINANCES AND TERMS AND CONDITIONS OF CONTRACT.
- COMPLY WITH THE LATEST EDITION OF ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS.
- SYMBOLS IN THE LEGEND ARE APPLICABLE GENERALLY. FOR EXACT REQUIREMENTS, REFER TO THE SCHEDULES, LAYOUTS, AND DETAILS. THE APPEARANCE OF A PARTICULAR SYMBOL DOES NOT NECESSARILY IMPLY THAT THE ITEM IS INCLUDED IN THE CONTRACT.
- PROVIDE ADDITIONAL SUPPORTS FOR SWITCHES, STARTERS, RACEWAYS AND OTHER ELECTRICAL EQUIPMENT WHEREVER THE BUILDING STRUCTURE IS NOT SUITABLE FOR DIRECT MOUNTING.
- VERIFY CEILING SUSPENSION SYSTEMS IN THE VARIOUS AREAS AND PROVIDE THE PROPER MOUNTING ACCESSORIES, TRIMS, ETC. TO SUIT THE PARTICULAR AREA. SUPPORT RACEWAYS WITH APPROVED TYPES OF WALL BRACKETS OR CEILING TRAPEZE HANGER. DO NOT SUSPEND FROM DROPPED CEILING, TIE WIRE OR T-BAR. PROVIDE SAFETY WIRES FOR EACH LIGHTING FIXTURE IN NEW DROPPED CEILING SO THAT IN THE EVENT OF CEILING FAILURE, NO PART OF THE FIXTURE WILL DROP MORE THAN 12" BELOW NORMAL CEILING HEIGHT.
- PROVIDE SEAL FITTINGS IN CONDUITS THAT ENTER CONDITIONED AREAS FROM NON-CONDITIONED AREAS.
- PROPERLY GROUND CONDUIT SYSTEM, OUTLETS, FIXTURES, ETC. IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, SECTION 250. PROVIDE ALL BONDING JUMPERS AND WIRE, GROUNDING BUSHINGS, CLAMPS, ETC. REQUIRED FOR COMPLETE GROUNDING. PROVIDE GREEN GROUND WIRE IN EACH RACEWAY.
- CONNECT BRANCH CIRCUIT NEUTRAL TO RECEPTACLE TERMINAL BY MEANS OF A SHORT "PIGTAIL" PERMANENTLY SPLICED TO THE NEUTRAL.
- PROVIDE 3/4" CONDUIT FROM EACH THERMOSTAT TO THE EQUIPMENT THAT IT CONTROLS. SEE MECHANICAL PLANS FOR THERMOSTAT LOCATIONS.
- CONTRACTOR MUST COORDINATE ALL SERVICE WORK WITH GPA. GPA MUST INSPECT AND APPROVE TRENCHING AND CONDUIT INSTALLATION PRIOR TO CONCRETE POUR. PRIOR APPROVAL FROM GPA MUST BE OBTAINED FOR ROUTING OF UNDERGROUND POWERLINE AND TRANSFORMER LOCATION.
- APPLICATION OF POWER MUST BE SUBMITTED 8 MONTHS IN ADVANCE BEFORE ACTUAL SERVICE CONNECTION TO ALLOW FOR DELIVERY OF GPA MATERIALS AND EQUIPMENT.
- THE OWNER MUST GRANT EASEMENT FOR THE ROUTING AND LOCATION OF UNDERGROUND POWER LINES AND EQUIPMENT.
- COORDINATE WITH GPA FOR THE INSPECTION OF TRENCH, CONDUIT LAYOUT, HANDHOLE, RISER, PAD ETC. 48 HOURS ADVANCE NOTICE IS REQUIRED.
- ALL CONDUIT MUST BE CLEANED AND MANDRELLED IN THE PRESENCE OF GPA INSPECTOR AND PROVIDED WITH NYLON PULL ROPE OF 200 LB MIN. PULL STRENGTH.
- ALL UNDERGROUND DUCTS, BENDS AND ELBOWS SHALL BE CONCRETE ENCASED THROUGHOUT THE WHOLE ROUTE.
- GPA HANDHOLE, TRANSFORMER AND METER SHALL BE ACCESSIBLE 24HRS A DAY FOR MAINTENANCE AND METER READING.
- ALL ABOVE GROUND GPA CONDUITS SHALL BE RIGID ALUMINUM CONDUIT. ALL BELOW GRADE GPA CONDUIT SHALL BE CONCRETE ENCASED PVC SCHEDULE 40.
- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND NATIONAL ELECTRICAL SAFETY CODE (NECS).
- CONTRACTOR/OWNER SHALL IDENTIFY THE REGISTERED LAND SURVEYOR (RLS) PROPERTY MARKERS/POINTS TO THE GPA INSPECTOR AT THE JOB SITE.
- PROVIDE 3 FEET MIN. CLEARANCE ALL AROUND HANDHOLES, TRANSFORMERS, AND METERING EQUIPMENT FROM FENCES, WALLS, AND STRUCTURES, ETC.
- CONTRACTOR/OWNER SHALL OBTAIN A REGISTERED LAND SURVEYOR TO PROVIDE NEW POLE STAKEOUT AND DOWN-GUY LOCATIONS, IF APPLICABLE. COORDINATE WITH GPA ENGINEERING FOR SPECIFIC REQUIREMENTS.
- CONTRACTOR/OWNER SHALL OBTAIN A REGISTERED LAND SURVEYOR TO PREPARE EASEMENT EXHIBITS FOR GPA POLES, HAND HOLES, TRANSFORMERS, OVERHEAD AND UNDERGROUND POWER LINES AND OTHER ASSOCIATED POWER FACILITIES. COORDINATE WITH GPA ENGINEERING FOR SPECIFIC REQUIREMENTS.
- ALL SURVEY STAKEOUTS, MAPS, AND EASEMENT DOCUMENTS SHALL BE FIELD VERIFY BY THE GPA.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL FLOOR OUTLETS FOR DATA AND POWER.
- ALL WIRING SHALL BE COPPER. ALL POWER WIRING #10 AND SMALLER SHALL BE SOLID. #8 AND LARGER MAY BE STRANDED. COLOR CODE ALL WIRING BY SYSTEM. FOR 120/208V SYSTEMS, PHASE A SHALL BE BLACK, PHASE B SHALL BE RED AND PHASE C SHALL BE BLUE. FOR 277/480V SYSTEMS, PHASE A SHALL BE BROWN, PHASE B SHALL ORANGE AND PHASE C SHALL BE YELLOW.

LEGEND

	2X4 RECESS FLUORESCENT LIGHT FIXTURE		OCCUPANCY SENSOR, CEILING MTD.
	2X2 RECESS FLUORESCENT LIGHT FIXTURE		POLE MTD LIGHT
	1X4 RECESS FLUORESCENT LIGHT FIXTURE		MOTOR CONNECTION WITH HP INDICATED
	LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP		DISCONNECT SWITCH - UNFUSED
	1X4 SURFACE MTD. FLUORESCENT LIGHT FIXTURE		TRANSFORMER
	CEILING MTD EXIT LIGHT, DOUBLE FACE, CONNECT TO UNSWITCHED CKT		20A, DUPLEX RECEPTACLE, ISOLATED GROUND (W/CIRCUIT NO.)
	WALL MTD EXIT LIGHT, DOUBLE FACE, CONNECT TO UNSWITCHED CKT		15A, DUPLEX RECEPTACLE (W/CIRCUIT NO.)
	CEILING MTD EXIT LIGHT, SINGLE FACE, CONNECT TO UNSWITCHED CKT		ABOVE COUNTER RECEPTACLE (W/GFCI)
	WALL MTD EXIT LIGHT, SINGLE FACE, CONNECT TO UNSWITCHED CKT		20A, DUPLEX RECEPTACLE, ISOLATED GROUND PART OF THE FURNITURE RECEPTACLE (W/ WEATHER PROOF & GFCI)
	STRIP LIGHT SURFACE MTD.		30A SINGLE RECEPTACLE, WALL FLUSH MTD
	DOWNLIGHT CEILING RECESS MTD.		CEILING MTD RECEPTACLE
	WALL MTD LIGHT FIXTURE		FLOOR MTD RECEPTACLE
	S SINGLE POLE SWITCH		FLOOR MTD RECEPTACLE, ISOLATED GROUND
	S3 THREE-WAY SWITCH		DUCT SMOKE DETECTOR (SEE MECH FOR EXACT LOCATION)
	S4 FOUR-WAY SWITCH		HEAT DETECTOR
	SMS COMBINATION LIGHT SWITCH/MOTION SENSOR		PHOTO ELECTRIC SYSTEM SMOKE DETECTOR
	CB CIRCUIT BREAKER		ELEVATOR PHOTO ELECTRIC SYSTEM SMOKE DETECTOR
	BC BRANCH CIRCUIT PANEL		UNDER RAISED FLOOR PHOTO ELECTRIC SYSTEM SMOKE DETECTOR
	CATV CAB		MANUAL DOUBLE ACTION PULL STATION
	FIRE ALARM CAB		FIRE ALARM REMOTE ANNUNCIATOR
	TELEPHONE CAB		F.A. AUDIO/VISUAL ALARM
	INTERCOM PULLBOX		F.A. STROBE ALARM
	SECURITY PULLBOX		F.A. FLOW SWITCH
	CCTV PULLBOX		F.A. TAMPER SWITCH
	LC LIGHTING CONTRACTOR		TELEPHONE OUTLET WALL FLUSH MOUNTED WITH CAT6 CABLES PLENUM TYPE
	REF TO NOTE INDICATED		DATA OUTLET WALL FLUSH MOUNTED, WITH CAT6 CABLES PLENUM TYPE
	E EQUIPMENT CONNECTION		WORKSTATION TEL OUTLET
	J JUNCTION BOX		WORKSTATION DATA OUTLET
	JWP WALL MTD J-BOX (POWER)		TV OUTLET WALL FLUSH MOUNTED, WITH PULL STRING
	JWD WALL MTD J-BOX (DATA)		TELEPHONE OUTLET FLOOR FLUSH MOUNTED, WITH PULL STRING
	JWT WALL MTD J-BOX (TEL)		DATA OUTLET FLOOR FLUSH MOUNTED, WITH PULL STRING
	JWI WALL/CEILING MTD J-BOX (INTERCOM)		DATA OUTLET CEILING MOUNTED, WITH PULL STRING
	JWC WALL/CEILING MTD J-BOX (CATV)		JUNCTION BOX FLOOR FLUSH MOUNTED
	JWCC WALL/CEILING MTD J-BOX (CCTV)		FLEXIBLE CONDUIT
	JWCT WALL/CEILING MTD J-BOX (TRANSFORMER LOCATION)		BRANCH CIRCUIT, -HOT, -NEUTRAL
	JWBD WALL MTD J-BOX (BADGE DOOR)		EXISTING OVERHEAD PRIMARY LINES
	JWBDN WALL MTD J-BOX (BADGE DOOR AT NIGHT)		UNDERGROUND PRIMARY LINES
	JWBS WALL MTD J-BOX (SCREEN WALL MOUNTED)		UNDERGROUND SECONDARY LINES
	JWMC CEILING MTD J-BOX (MOTORIZED SCREEN)		CATV RACEWAYS
	JWMP CEILING MTD J-BOX (PROJECTOR)		TEL RACEWAYS VIA CABLE TRAY
	JWP FLR MTD JUNCTION BOX (POWER)		DATA RACEWAYS VIA CABLE TRAY
	JWD FLR MTD JUNCTION BOX (DATA)		FIRE ALARM RACEWAYS
	JWT FLR MTD JUNCTION BOX (TEL)		CCTV RACEWAYS WITH PULLCORD
	PP POWER POLE		INTRUSION RACEWAYS WITH PULLCORD
	WPB WALL MTD ADA PUSH BUTTON		SECURITY RACEWAYS WITH PULLCORD

ABBREVIATIONS

A	LIGHTING FIXTURE KEY - SEE SCHEDULE
AC	ABOVE COUNTER
AF	AMP FRAME
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
C	CONTRACTOR COIL
CL	CURFEW LIGHT
CT	CURRENT TRANSFORMER
EF	EXHAUST FAN
Em	EMERGENCY LIGHT, CIRCUIT OR PANEL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
F.A.	FIRE ALARM
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MTS	MANUAL TRANSFER SWITCH
NL	NIGHT LIGHT
NIC	NOT IN CONTRACT
PC	PHOTO CELL
TC	TIME CLOCK
WP	AS SUBSCRIPT DENOTES 'WEATHERPROOF'

REVISION SYMBOL

- SCADA/EMS FLOOR MTD OUTLET
- DATA/TEL FLOOR MTD OUTLET
- SCADA/EMS WALL MTD OUTLET
- DATA/TEL WALL MTD OUTLET
- QUADRUPEX RECEPTACLE

AS BUILT

REVISION 12 JRL 03.21.2014

REVISIONS				
SYMBOL	DESCRIPTION	REV.	DATE	APPD.
2	REVISION 2		01/18/2013	
9	REVISION 9		11.07.2013	

GUAM POWER AUTHORITY P.O. BOX 2977, HAGATNA, GUAM, USA 96910		GPA - GWA MULTI PURPOSE FACILITY	
PROJECT NO. 124014 - ELECT	CHECKED BY VC	APPROVED BY GPA	SHEET CONTAINS GENERAL NOTES, LEGEND AND ABBREVIATIONS
DESIGNED BY VC	ENGINEER SUPERVISOR PERRY B. TALADOC	DATE 2012.11.08	SHEET 348 OF 428
MANAGER OF PROJECT JOVEN G. ACOSTA, P.E.	GENERAL SUPERVISOR MELINDA R. CAMACHO, P.E.	JOB NO. 100134	SCALE 1" = 1'-0"
AS DETAIL IN GUAM PUBLIC LAW 30-35, SECTION 12114		DATE 2012.11.08	SHEET EG001

ABBREVIATIONS

Table of abbreviations categorized by letters A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z. Includes terms like ANCHOR BOLT, FABRICATE, METER, SOUTH, etc.

PROJECT DATA

BUILDING CODE SUMMARY: INTERNATIONAL CODES, INTERNATIONAL CODE COUNCIL... PROJECT DESCRIPTION: GPA-GWA MULTI-PURPOSE FACILITY... OCCUPANCY: GROUP B (BUSINESS), GROUP A-3 (ASSEMBLY), GROUP S-1 (MODERATE HAZARDOUS STORAGE), GROUP S-2 (LOW HAZARDOUS STORAGE), GROUP F-1 (MODERATE HAZARDOUS OCCUPANCY)...

SYMBOLS

SYMBOLS section containing various symbols for room designation, door designation, equipment designation, opening designation, revision designation, plan keynote, break line, plan north/true north, matchline, datum designation, title designation, wall type, gridline, interior elevation designation, exterior elevation designation, detail designation, building section designation, wall/detail section designation, enlarged detail designation, and a REVISIONS table.

Table with columns: BUILDING ELEMENT, REQUIRED RATING, PROVIDED. Lists fire resistance ratings for structural frame, walls, floors, etc.

Table with columns: NUMBER OF EXITS, REQUIRED, PROVIDED. Lists exit counts for 1st, 2nd, 3rd, 4th floors.

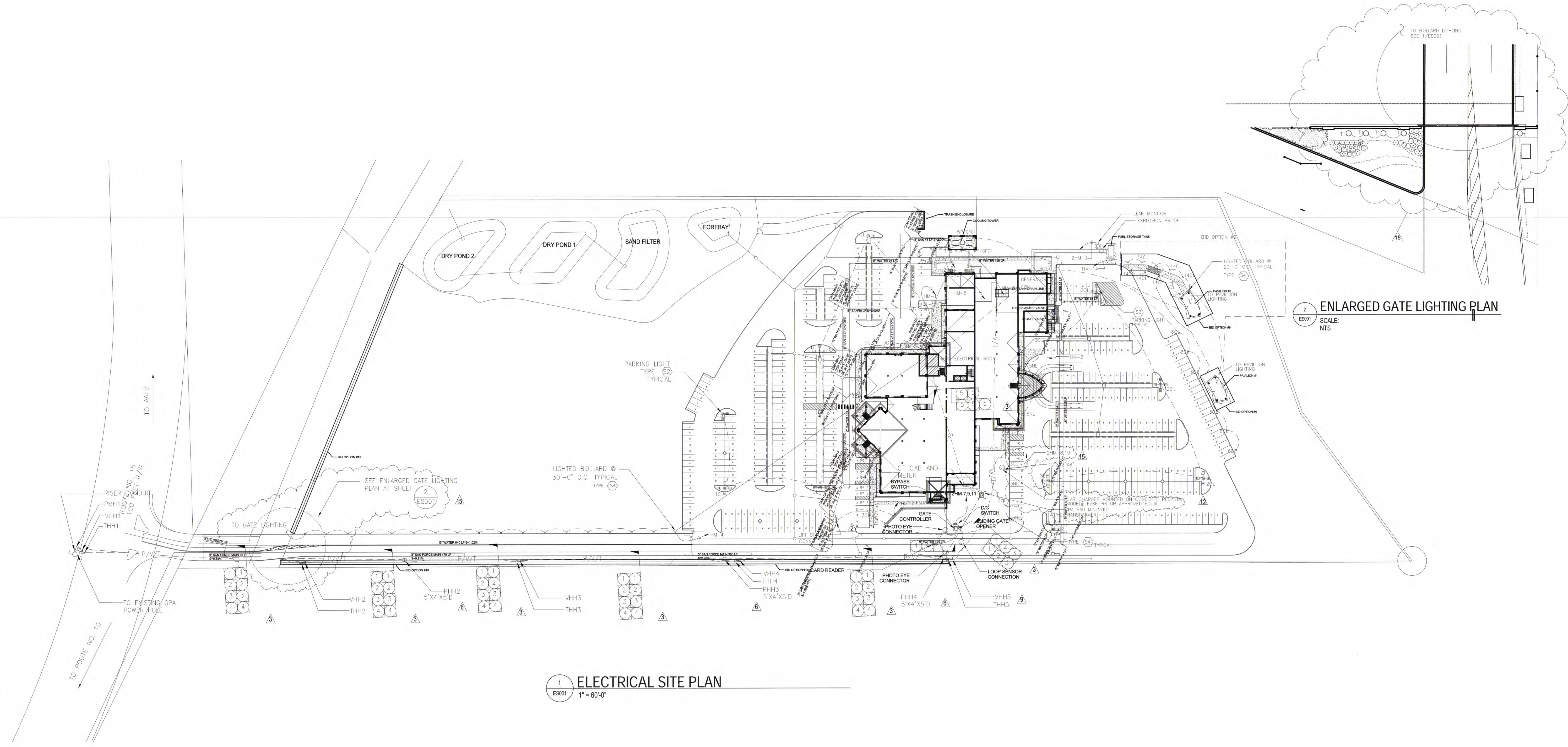
Table with columns: MEANS OF EGRESS, ALLOWED, PROVIDED. Lists travel distance and common path of travel.

- NOTES: 1. ALL ACCESSORY USES CONFORM TO SECTION 508.2.1... 2. NO OCCUPANCY SEPARATION REQUIRED BETWEEN GROUPS B, F-1, AND S... 3. 1 HOUR OCCUPANCY SEPARATION REQUIRED BETWEEN GROUP B AND S-2...

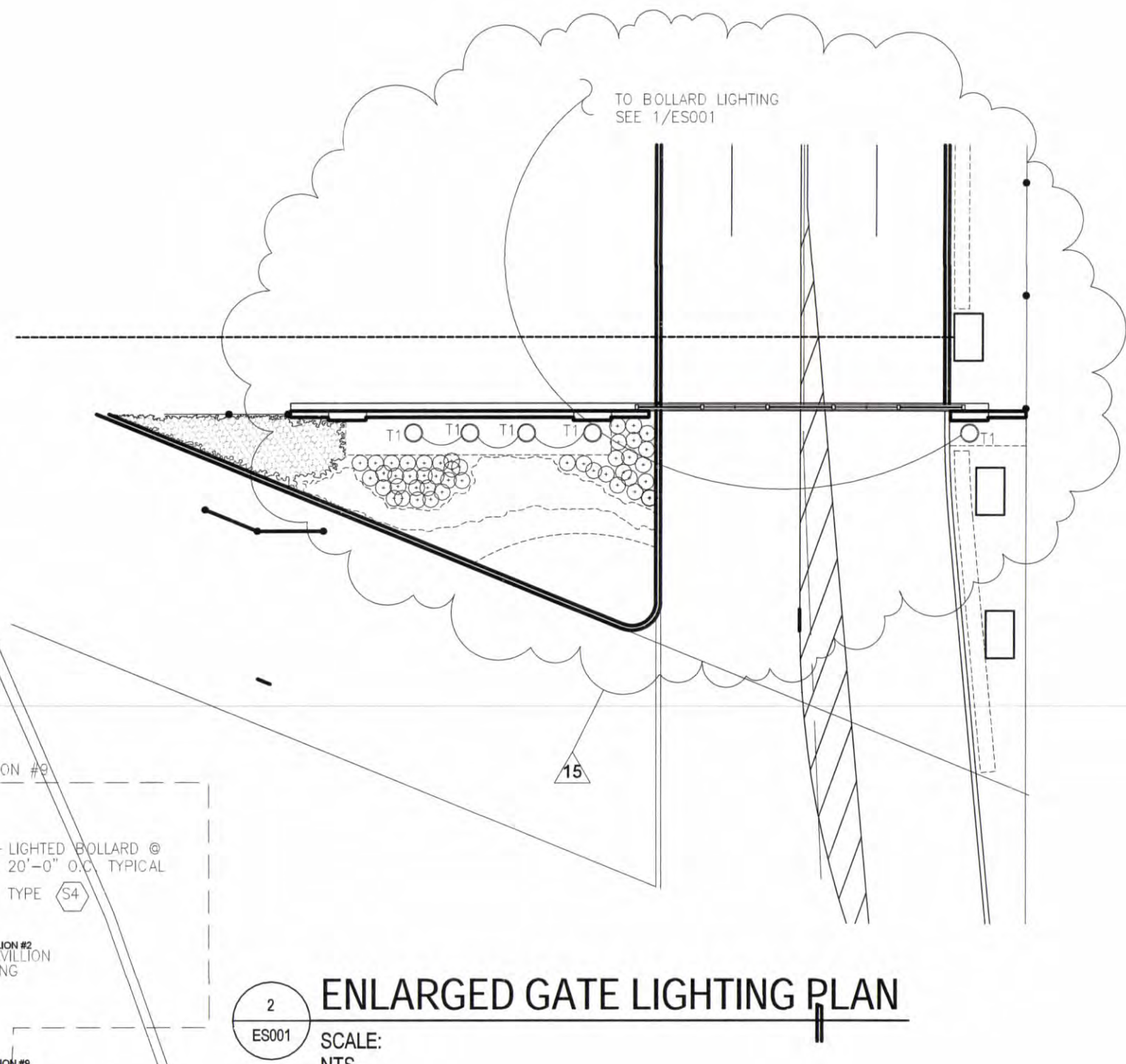
SUM OF THE RATIOS CALCULATIONS PER STORY. Table showing calculations for 1st, 2nd, 3rd, and 4th floors.

AS BUILT

Professional stamps and project information including RIM ARCHITECTS, GUAM POWER AUTHORITY, project number 124014, and sheet title 'ABBREVIATIONS, PROJECT DATA AND SYMBOLS'.



1 ELECTRICAL SITE PLAN
 ES001 1" = 60'-0"



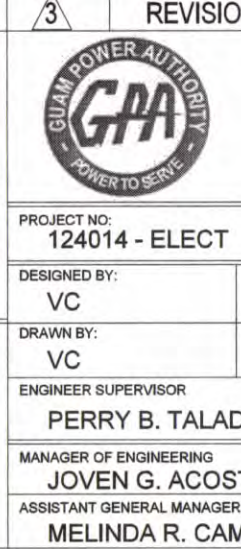
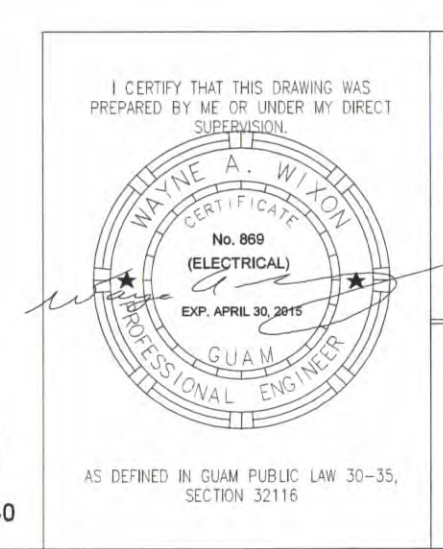
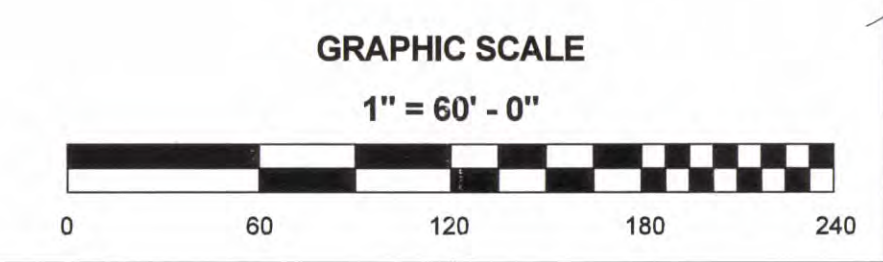
2 ENLARGED GATE LIGHTING PLAN
 ES001 SCALE: NTS

AS BUILT

REV.	DESCRIPTION	DATE
15	REVISION 15	08/05/2014
14	REVISION 12	03/21/2014
9	REVISION 9	11.07.2013
6	REVISION 6	08.06.2013



REVISIONS		
SYMBOL	DESCRIPTION	REV.
15	REVISION 15	VCC
14	REVISION 12	VCC
9	REVISION 9	VCC
6	REVISION 6	VCC



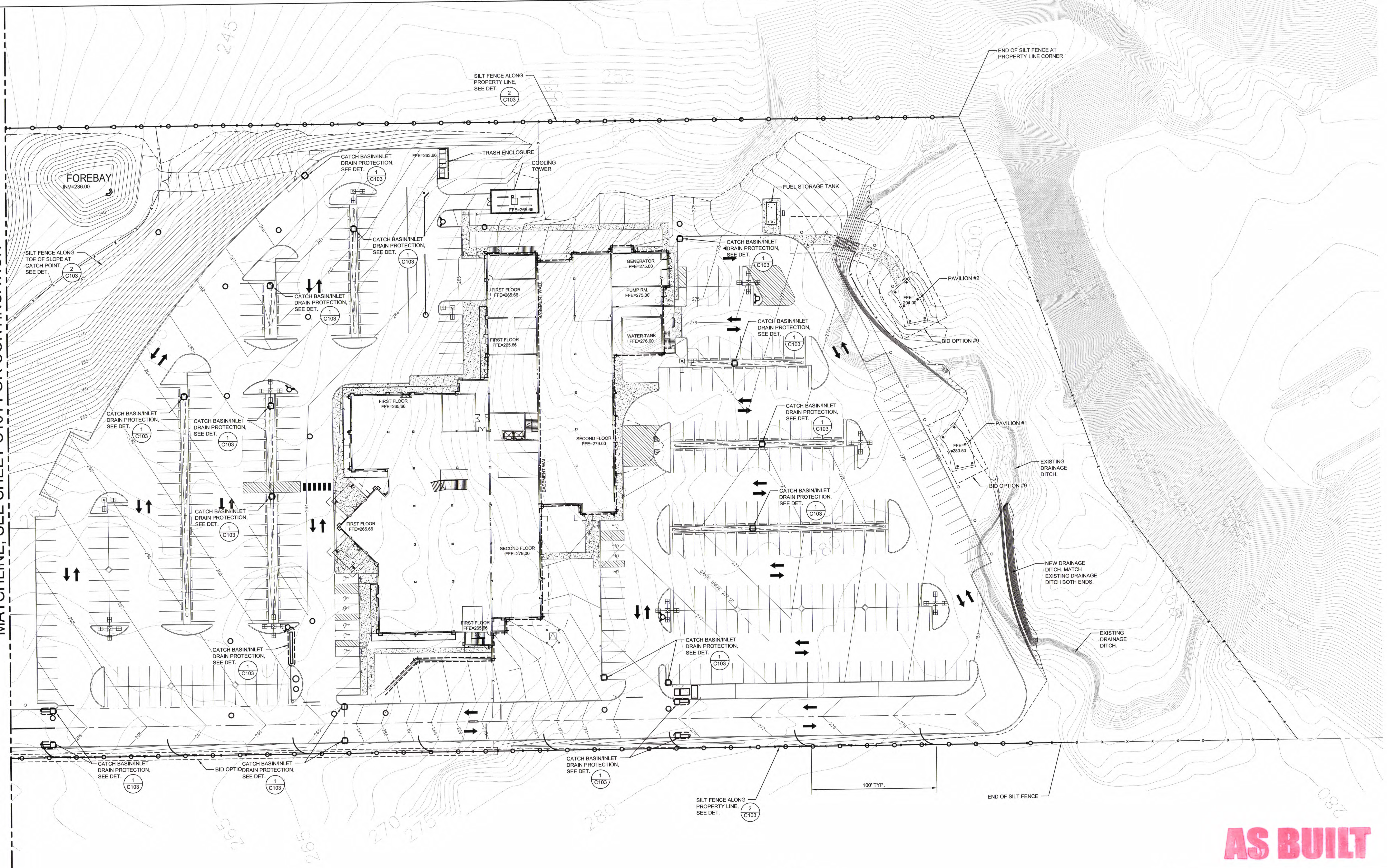
GUAM POWER AUTHORITY
 P.O. BOX 2977, HAGATNA, GUAM

PROJECT NO. 124014 - ELECT
 PROJECT TITLE: GPA - G'
 ELECTRICAL

DESIGNED BY: VC
 CHECKED BY: WW
 DRAWN BY: VC
 APPROVED BY: GPA
 ENGINEER SUPERVISOR: PERRY B. TALADOC
 MANAGER OF ENGINEERING: JOYVEN G. ACOSTA, P.E.
 ASSISTANT GENERAL MANAGER OF OPERATIONS: MELINDA R. CAMACHO, P.E.

DATE: 2012.11.06

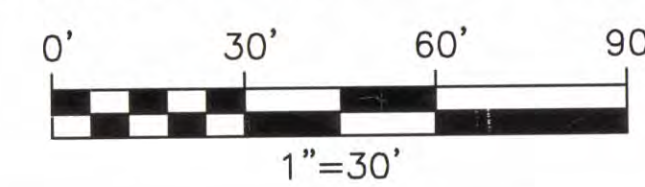
MATCHLINE, SEE SHEET C101 FOR CONTINUATION



LEGEND

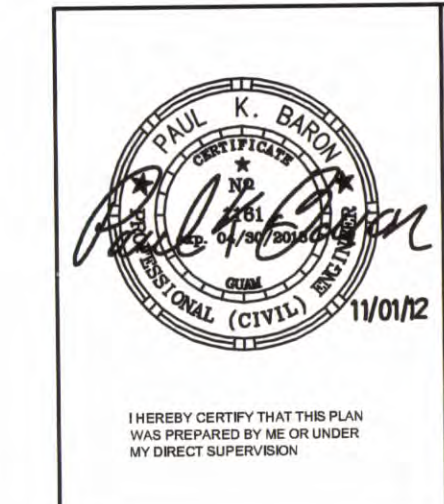
- SILT FENCE
- GRAVEL CONSTRUCTION ENTRANCE

GRAPHIC SCALES



AS BUILT

REVISIONS			
NO.	DESCRIPTION	DATE	APPRO.



GUAM POWER AUTHORITY
P.O. BOX 2977, HAGATNA, GUAM, USA 96910

GPA

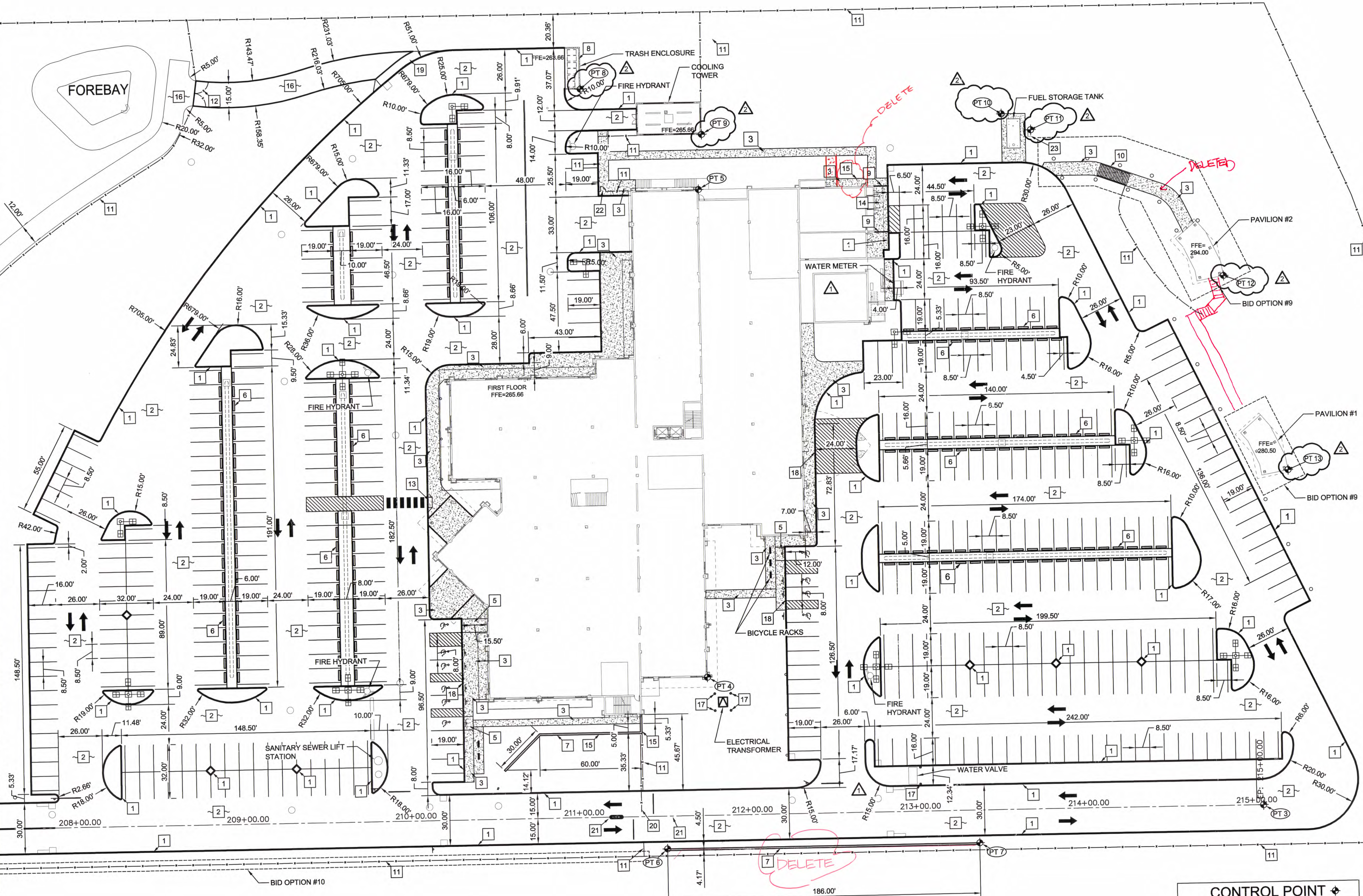
PROJECT NO. 12M014
PROJECT TITLE: **GPA - GWA MULTI-PURPOSE FACILITY**

DESIGNED BY: DMV
CHECKED BY: SXA
DRAWN BY: KPT
DATE: 2012.11.06
SCALE: 1"=30'-0"

PROJECT LOCATION: EROSION CONTROL PLAN
SHEET: 10 OF 438
SHEET NO.: **C102**

APPROVED BY: MELINDA R. CAMACHO, P.E.

MATCHLINE, SEE SHEET C121 FOR CONTINUATION

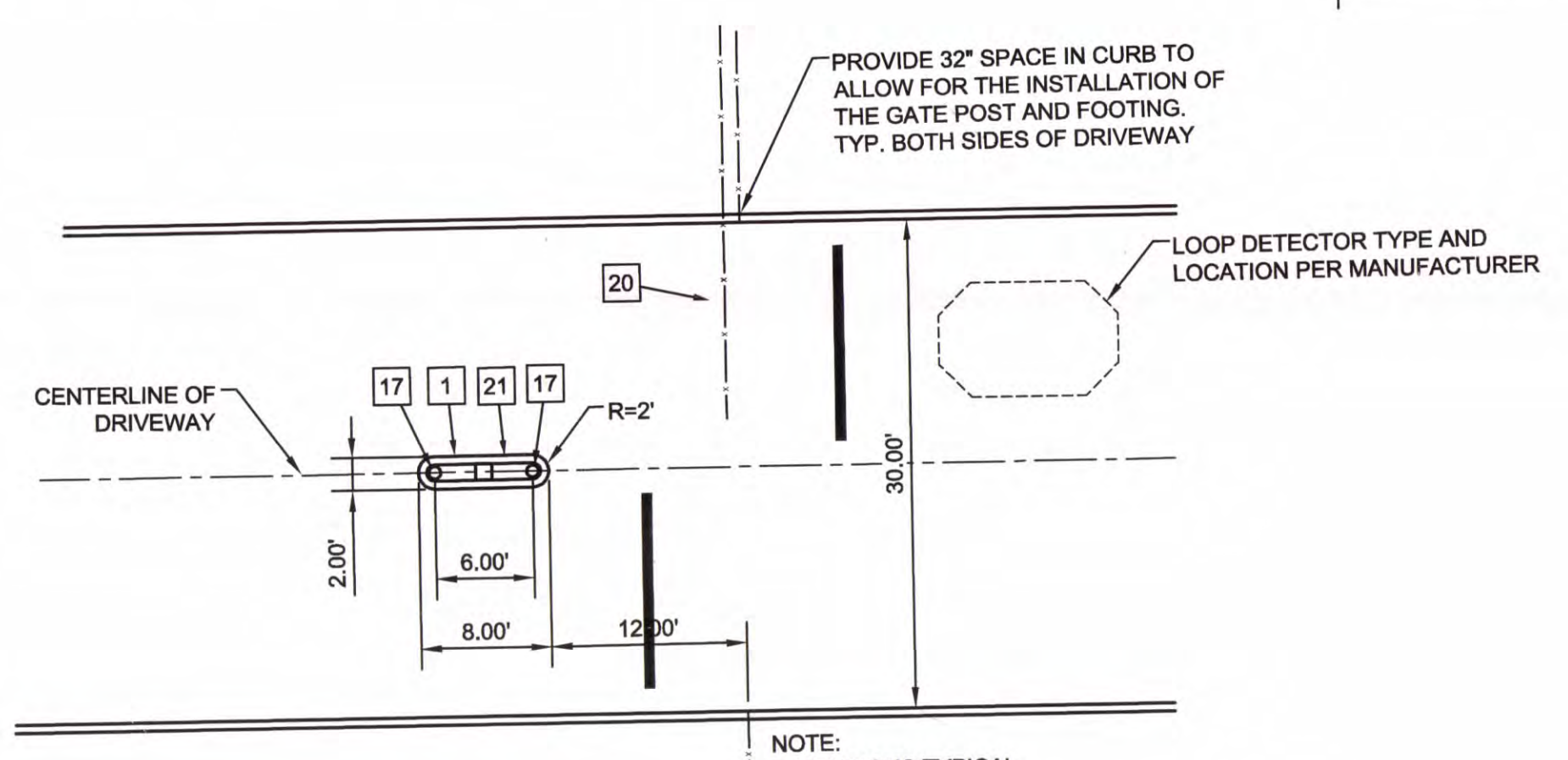


- KEYED NOTES
(NOT ALL NOTES USED ON THIS SHEET)
- 1 CONSTRUCT CONCRETE CURB SEE DETAIL (2) C810
 - 2 CONSTRUCT ASPHALT PAVEMENT SECTION SEE DETAIL (4) C910
 - 3 CONSTRUCT CONCRETE SIDEWALK SEE ARCHITECTURAL SITE PLAN A001 SEE DETAIL (7) C810 (8) C910
 - 4 CONCRETE SCORE LINE, TYPICAL SEE ARCHITECTURAL DRAWINGS.
 - 5 CONSTRUCT ADA RAMP SEE DETAIL (2) C812
 - 6 INSTALL TYPICAL WHEEL GUARD SEE DETAIL (1) C910
 - 7 CONSTRUCT RETAINING WALL - SEE SHEET C132 FOR GRADES (1) C910
 - 8 CONSTRUCT TRASH ENCLOSURE SEE STRUCTURAL AND ARCHITECTURAL PLANS.
 - 9 CONTRACTION JOINT SEE DETAIL (3) C810
 - 10 CONSTRUCT CONCRETE STAIRS SEE DETAIL (4) C812
 - 11 INSTALL CHAIN LINK FENCE SEE DETAIL (1) C909
 - 12 INSTALL 15' WIDE DOUBLE LEAF SWING GATE SEE DETAIL (3) C809
 - 13 CONSTRUCT CURB RAMP SEE DETAIL (1) C812
 - 14 CONSTRUCT CONCRETE PAVEMENT SEE DETAIL (5) C910
 - 15 ~~INSTALL PEDESTRIAN RAILING - SEE DETAIL (1) C908~~
 - 16 CONSTRUCT GRAVEL ACCESS ROAD SEE DETAIL (12) C910
 - 17 INSTALL BOLLARDS SEE DETAIL (10) C910
 - 18 CONSTRUCT CURB AND SIDEWALK FLUSH WITH ASPHALT (ZERO CURB EXPOSURE ONLY AT ACCESSIBLE PARKING AND COVERED ENTRY)
 - 19 CONSTRUCT 20' WIDE CONCRETE DRIVEWAY. SEE DETAIL (13) C910
 - 20 INSTALL NEW 30' WIDE AUTOMATED SLIDE GATE. SEE DETAIL (2) C809
 - 21 CONSTRUCT CONCRETE MEDIAN AND INSTALL NEW CARD READER/KEYPAD ACCESS CONTROL PANEL FOR AUTOMATIC GATE. SEE DETAIL THIS SHEET AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
 - 22 INSTALL 3' PEDESTRIAN GATE SEE DETAIL (3) C809
 - 23 FUEL STORAGE TANK PEDESTAL SEE DETAIL (5) C812

DELETE

DELETE

DELETE



CONTROL POINT

POINT	NORTHING	EASTING
PT 1	637737.6404	35278067.12
PT 2	637609.3688	352847.1850
PT 3	636490.1961	353398.3342
PT 4	636822.1742	353326.4374
PT 5	636950.2949	353586.6009
PT 6	636799.9444	353224.0585
PT 7	636633.2796	353306.1347
PT 8	637039.3262	353810.8309
PT 9	636962.6675	353617.0022
PT 10	636806.4513	353703.6906
PT 11	636786.7155	353702.4951
PT 12	636646.0128	353672.8423
PT 13	636561.9580	353584.8065

AS BUILT

REVISIONS

SYMBOL	DESCRIPTION	INT.	DATE	APPR.
△	REVISED CALLOUTS, RELOCATE WATER METER	MP	01/10/13	PB
△	ADDED CONTROL POINTS	MP	01/18/13	PB

GUAM POWER AUTHORITY
P.O. BOX 2977, HAGATNA, GUAM, USA 96910

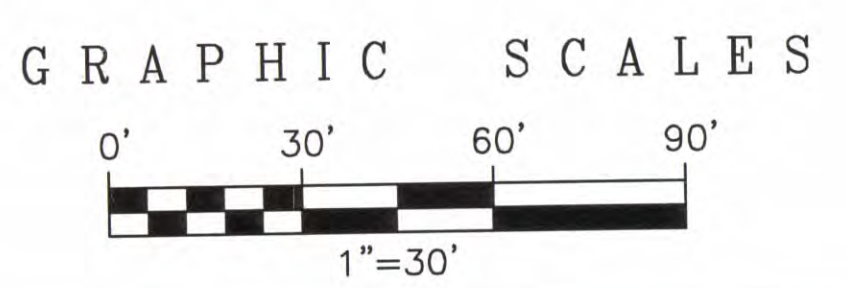
GPA - GWA MULTI-PURPOSE FACILITY

SITE LAYOUT PLAN

PROJECT NO: 124014
DESIGNED BY: DMV
CHECKED BY: SXM
DATE: 2012.11.06

DESIGNER SUPERVISOR: PERRY B. TALADOC
MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E.
ASSISTANT GENERAL MANAGER OF OPERATIONS: MELINDA R. CAMACHO, P.E.

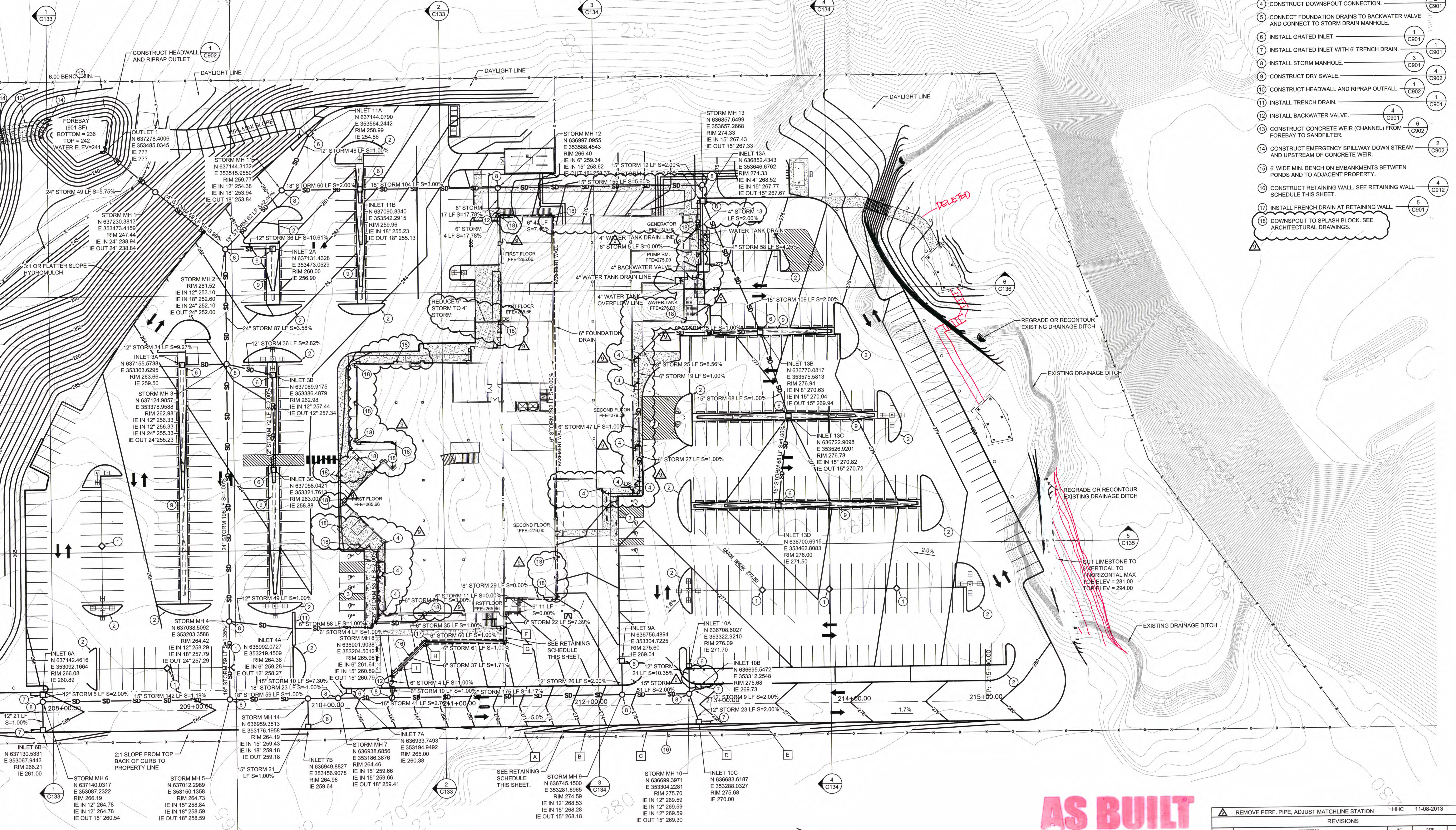
DATE: 2012.11.06
SCALE: 1" = 30'-0"
SHEET: 14 OF 438
TYP: C122



1 GATED ENTRY WITH CARD READER AND KEYPAD
C122 1"=10'

- ABBREVIATIONS
 TOW = TOP OF RETAINING WALL
 BOW = BOTTOM OF RETAINING WALL (FINISHED GRADE)
 DS = DOWNSPOUT
- GRADING NOTES:
 ① PROVIDE POSITIVE DRAINAGE AROUND TREE ISLANDS.
 ② PROVIDE POSITIVE DRAINAGE AROUND LANDSCAPE ISLANDS.
 ③ ZERO CURB EXPOSURE AT ACCESSIBLE PARKING SPACES AND COVERED ENTRY.
 ④ CONSTRUCT DOWNSPOUT CONNECTION.
 ⑤ CONNECT FOUNDATION DRAINS TO BACKWATER VALVE AND CONNECT TO STORM DRAIN MANHOLE.
 ⑥ INSTALL GRATED INLET.
 ⑦ INSTALL GRATED INLET WITH 6" TRENCH DRAIN.
 ⑧ INSTALL STORM MANHOLE.
 ⑨ CONSTRUCT DRY SWALE.
 ⑩ CONSTRUCT HEADWALL AND RIPRAP OUTFALL.
 ⑪ INSTALL TRENCH DRAIN.
 ⑫ INSTALL BACKWATER VALVE.
 ⑬ CONSTRUCT CONCRETE WEIR (CHANNEL) FROM FOREBAY TO SANDFILTER.
 ⑭ CONSTRUCT EMERGENCY SPILLWAY DOWN STREAM AND UPSTREAM OF CONCRETE WEIR.
 ⑮ 6" WIDE MIN. BENCH ON EMBANKMENTS BETWEEN PONDS AND TO ADJACENT PROPERTY.
 ⑯ CONSTRUCT RETAINING WALL. SEE RETAINING WALL SCHEDULE THIS SHEET.
 ⑰ INSTALL FRENCH DRAIN AT RETAINING WALL.
 ⑱ DOWNSPOUT TO SPLASH BLOCK. SEE ARCHITECTURAL DRAWINGS.

MATCHLINE, SEE SHEET C131 FOR CONTINUATION



AS BUILT

NO.	DESCRIPTION	DATE	BY	APP'D
1	REMOVE PERF. PIPE, ADJUST MATCHLINE STATION	11-08-2013	HHH	PB
2	REMOVE WATERLINE, ADJUST MATCHLINE STATION	01-10-2013	MP	PB
3	GRADING REVISIONS	09-19-2013		

GUAM POWER AUTHORITY
 P.O. BOX 2977, HAGATNA, GUAM, USA 96910

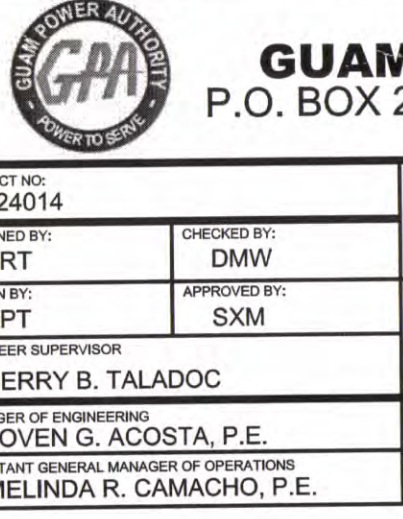
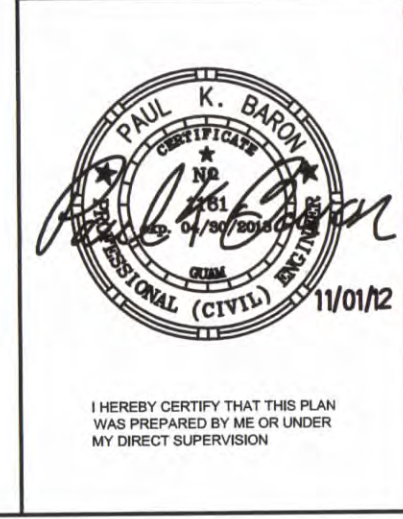
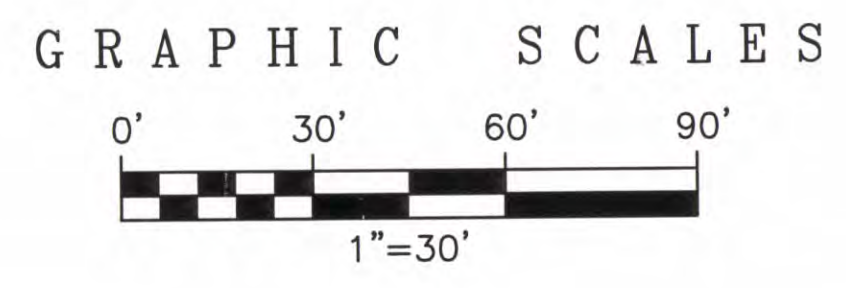
GPA - GWA MULTI-PURPOSE FACILITY

GRADING AND DRAINAGE PLAN

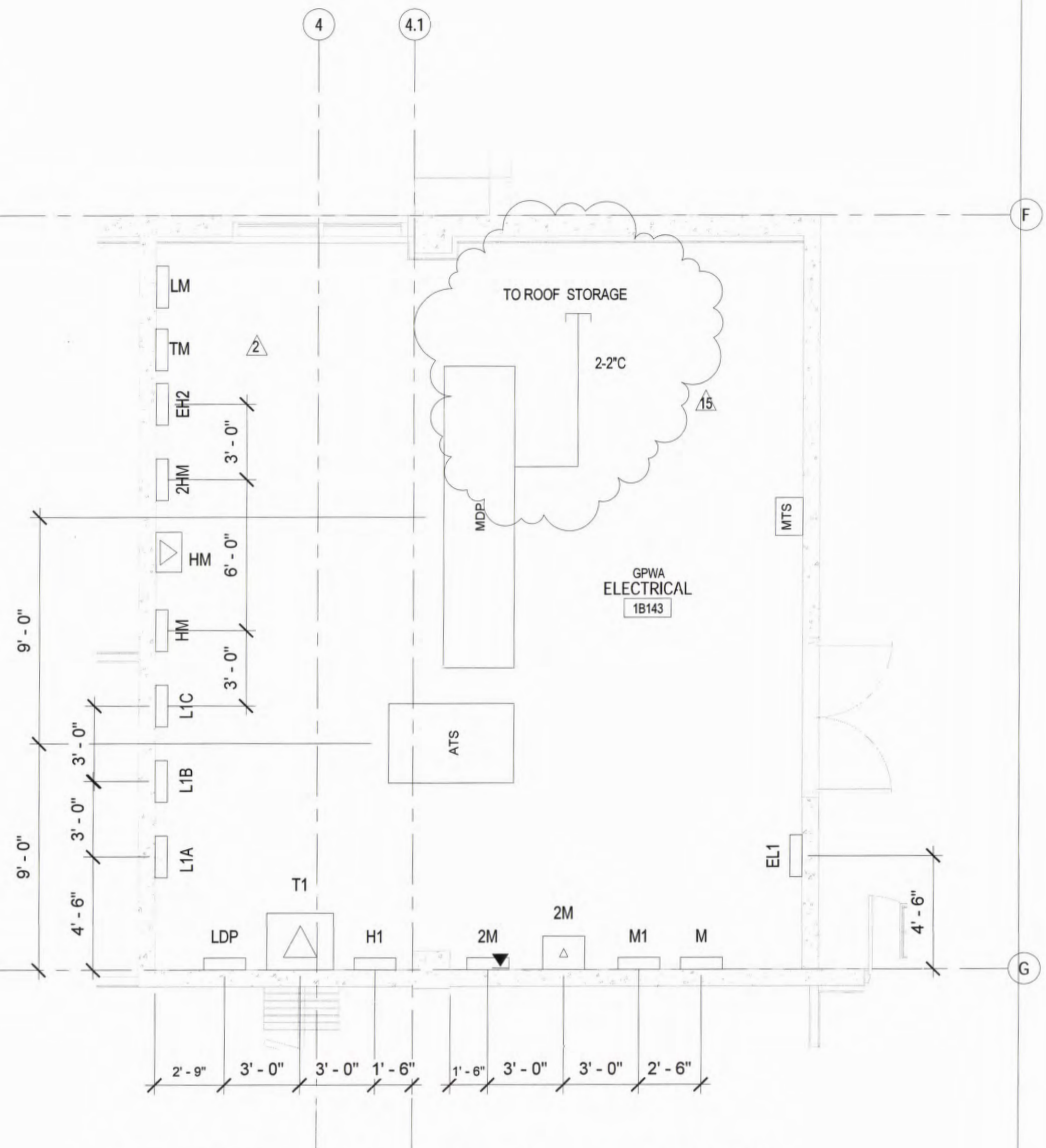
PROJECT NO: 124014
 SHEET NO: 16 OF 438
 DATE: 2012.11.06
 SCALE: 1" = 30'-0"

RETAINING WALL SCHEDULE:

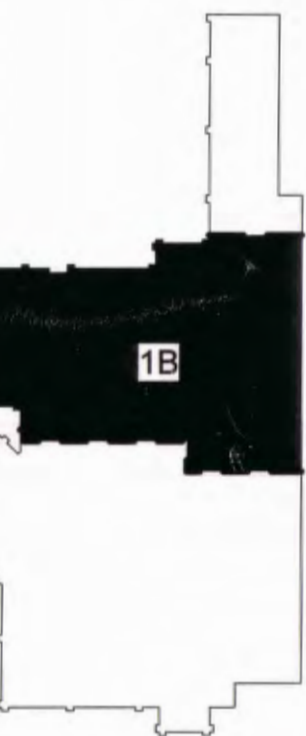
A BEGIN RETAINING WALL STA 0+00 TOW=274.0 BOW=271.5	D RETAINING WALL (3/4) STA 1+39.5 TOW = 279.5 BOW = 277.5	F BEGIN RETAINING WALL STA 0+00 TOW = 272.5 BOW = 265.5	H RETAINING WALL STA 0+70.33 TOW = 268.5 BOW = 265.5
B RETAINING WALL (1/4 PT.) STA 0+46.5 TOW = 278.5 BOW = 275.0	E END RETAINING WALL STA 1+86 TOW = 279.75 BOW = 278.25	G RETAINING WALL STA 0+10.5 TOW = 271.5 BOW = 265.5	I END RETAINING WALL STA 1+00.33 TOW = 267.5 BOW = 265.5
C RETAINING WALL (1/2 PT.) STA 0+93 TOW = 279.25 BOW = 277.0			



PROJECT SUPERVISOR: PERRY B. TALADOC
 MANAGER: JOVEN G. ACOSTA, P.E.
 ASSISTANT GENERAL MANAGER OF OPERATIONS: MELINDA R. CAMACHO, P.E.



2 POWER PLAN - ELECTRICAL ROOM 1B143
 E-302 1/4" = 1'-0"



AS BUILT



15	REVISION 15	VCC	08/05/2014	WAW
12	REVISION 12	JRL	03.21.2014	WAW

REVISIONS				
SYMBOL	DESCRIPTION	INT.	DATE	APPD.
2	REVISION 2		01/18/2013	WAW
9	REVISION 9	JRL	11.07.2013	WAW

SECTOR KEY PLAN

I CERTIFY THAT THIS DRAWING WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.

AS DEFINED IN GUAM PUBLIC LAW 30-35, SECTION 32116

RIM
 ARCHITECTS
 GUAM
 CALIFORNIA ALASKA HAWAII
 316 HERIVAN CORTEZ AVE
 SUITE 300
 HAGATNA, GUAM 96910
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 Fax: 671.477.2125
 www.rimarchitects.com

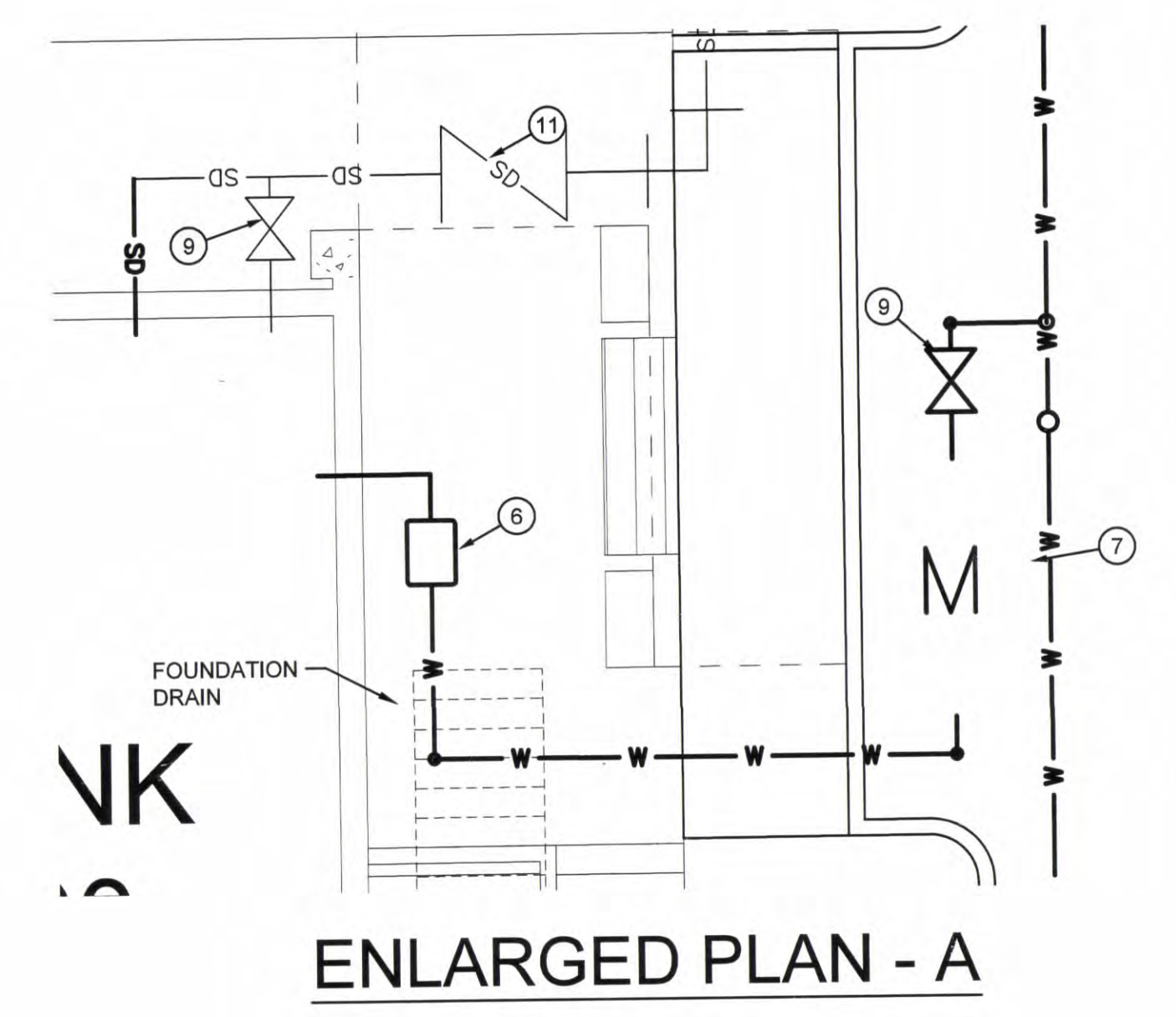
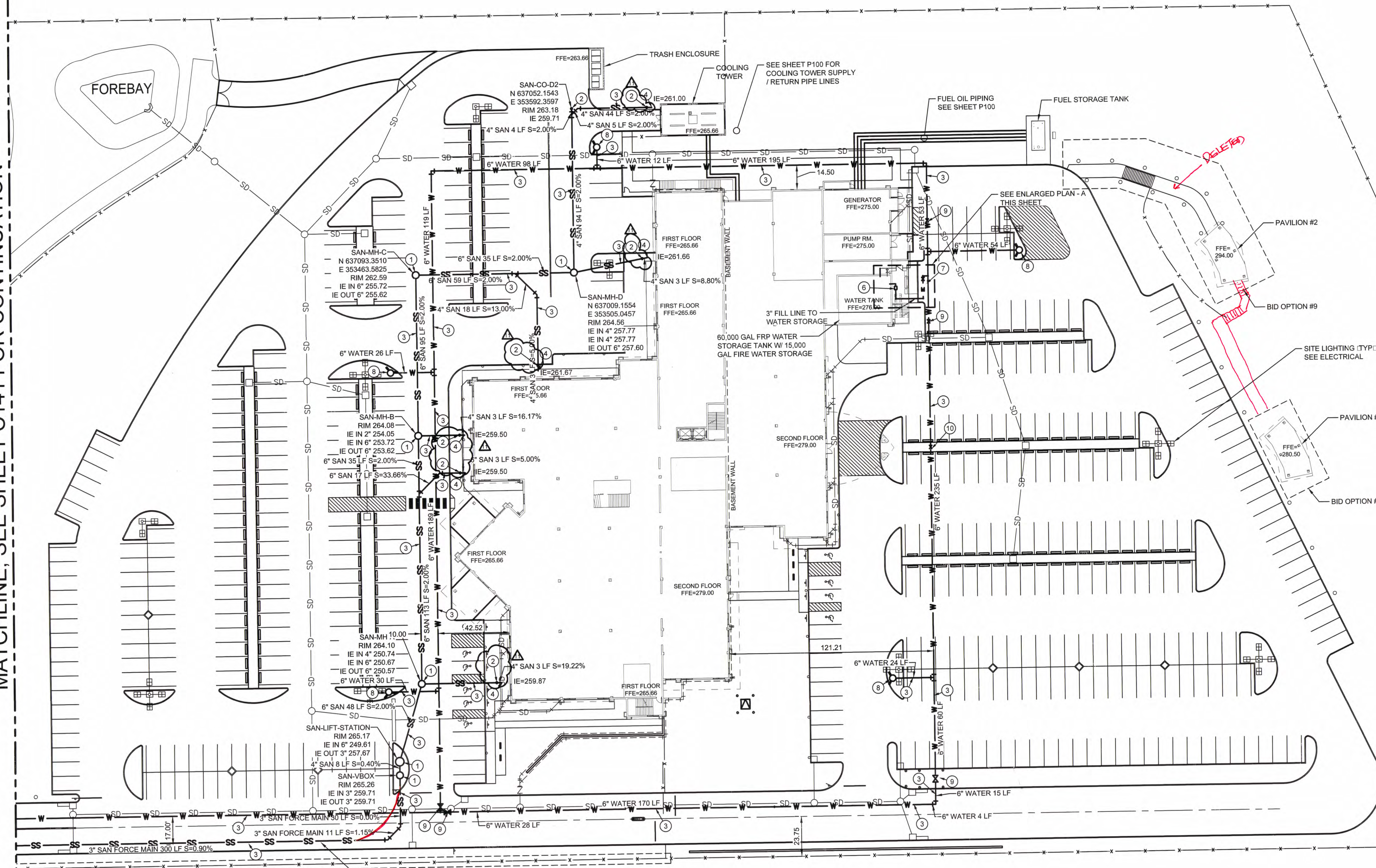
WIXON & ASSOCIATES
 CONSULTING ENGINEERING

GUAM POWER AUTHORITY
 P.O. BOX 2977, HAGATNA, GUAM, USA 96910

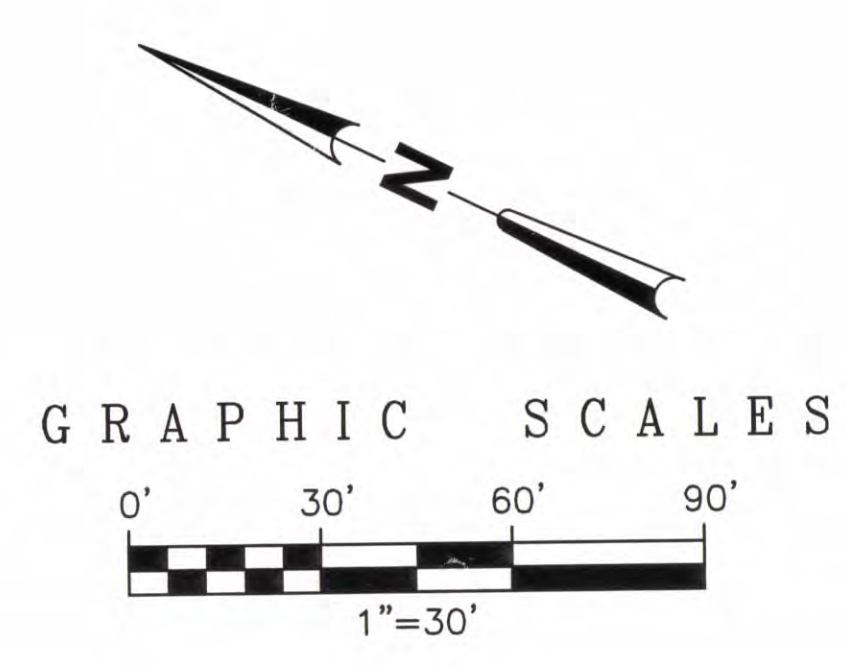
PROJECT NO: 124014 - ELECT	PROJECT TITLE GPA - GWA MULTI PURPOSE FACILITY		
DESIGNED BY: VC	CHECKED BY: WW	SHEET CONTENTS POWER PLAN - 1ST FLOOR SECTOR 1B	
DRAWN BY: VC	APPROVED BY: GPA	DATE 2012.11.06	J.O. NO. 100134
ENGINEER SUPERVISOR PERRY B. TALADOC	DATE 2012.11.06	J.O. NO. 100134	SCALE As indicated
MANAGER OF ENGINEERING JOVEN G. ACOSTA, P.E.	DATE	GENERAL MANAGER JOAQUIN C. FLORES, P.E.	SHT 364 OF 428 SHEET E-302
ASSISTANT GENERAL MANAGER OF OPERATIONS MELINDA R. CAMACHO, P.E.			

MATCHLINE, SEE SHEET C141 FOR CONTINUATION

- UTILITY NOTES
- 1 INSTALL SANITARY SEWER MANHOLE. (4) C806
 - 2 INSTALL SANITARY SEWER CLEANOUT. (2) C906
 - 3 INSTALL UTILITY PIPE, SIZE AND TYPE PER PLANS. (2) C804
 - 4 CONNECT TO BUILDING. SEE PLUMBING PLANS.
 - 5 INSTALL 6" BACKFLOW PREVENTER (RPBP). (1) C804
 - 6 INSTALL 3" BACKFLOW PREVENTER (RPBP). (1) C804
 - 7 INSTALL 3" WATER METER. (4) C803
 - 8 INSTALL FIRE HYDRANT. (2) C805
 - 9 INSTALL GATE VALVE AND BOX. (1) C803
 - 10 INSTALL AIR RELIEF VALVE AT HIGH POINT. (4) C805
 - 11 INSTALL 4" BACKWATER VALVE. (4) C801
 - 12 INSTALL 6" BACKWATER VALVE. (4) C801



AS BUILT



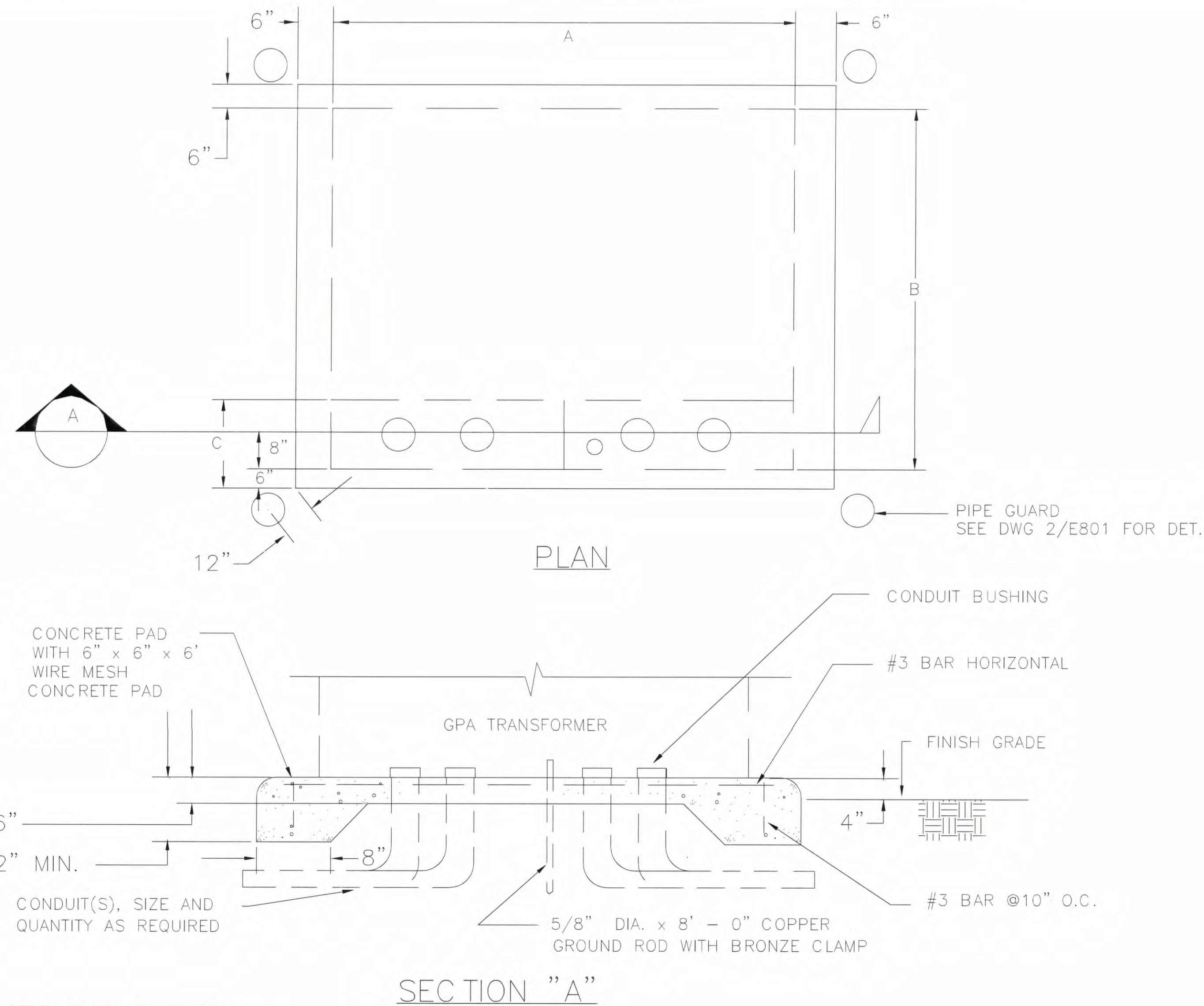
SYMBOL	DESCRIPTION	REV	DATE	APPROV
▲	ADDED CLEANOUTS	MP	02/13/14	PB
▲	REVISE WATERLINE	MP	05/28/13	PB

	PROJECT NO: 124014 DESIGNED BY: FRT CHECKED BY: DMW DRAWN BY: KPT APPROVED BY: SKM	GUAM POWER AUTHORITY P.O. BOX 2977, HAGATNA, GUAM, USA 96910
	PROJECT TITLE: GPA - GWA MULTI-PURPOSE FACILITY	SHEET CONTAINS: SITE UTILITY PLAN
PROJECT SUPERVISOR: PERRY B. TALADOC MANAGER OF ENGINEERING: JOVEN G. ACOSTA, P.E. ASSISTANT GENERAL MANAGER OF OPERATIONS: MELINDA R. CAMACHO, P.E.	DATE: 2012.11.06 JLS NO: 100134 SCALE: 1" = 30'-0" SHEET: 23 OF 438	SHEET: C142

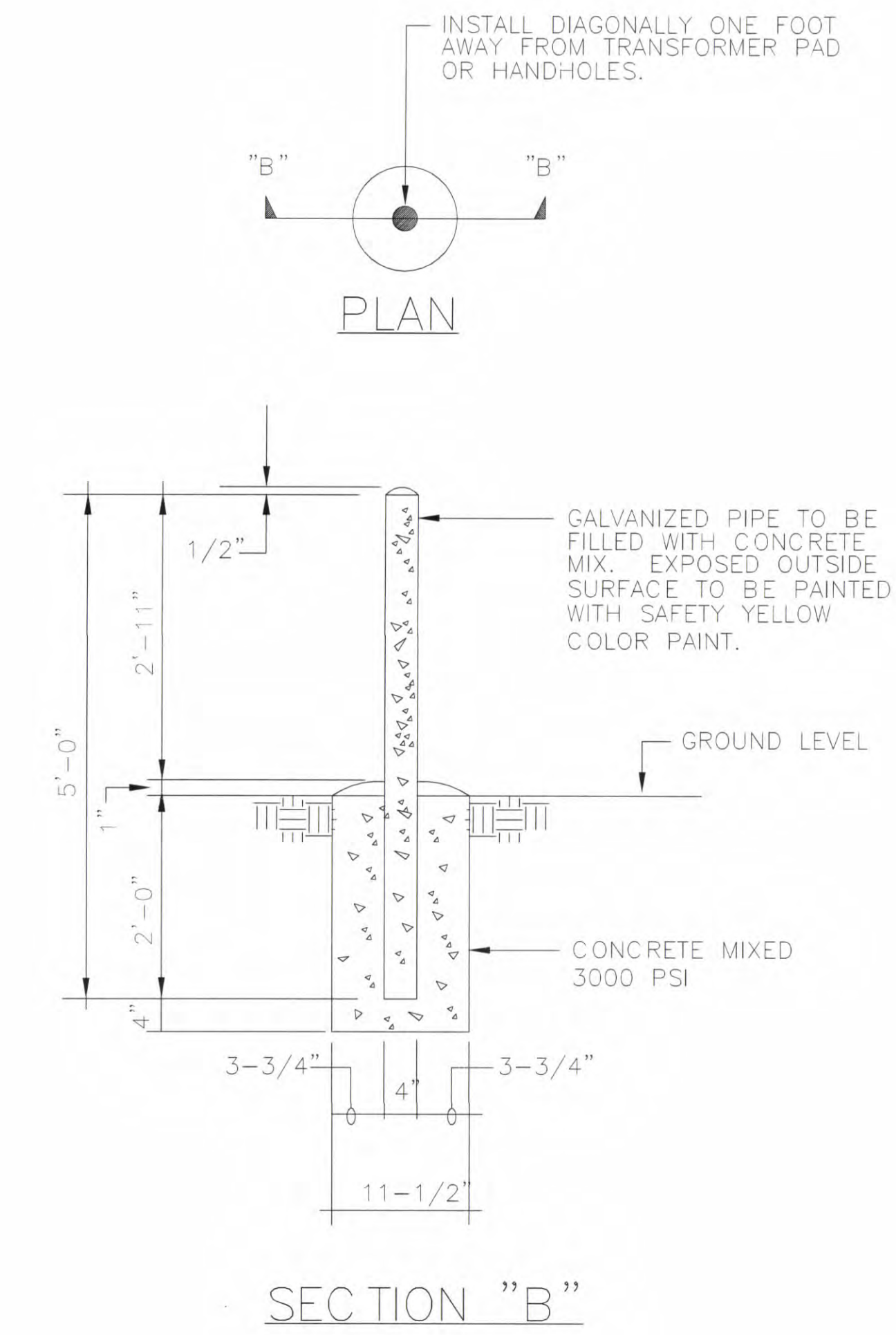
TRANSFORMER PAD MEASUREMENTS				
KVA	PHASE	A	B	C
150	3	56"	39"	20"
225	3	48"	56"	20"
300	3	48"	63"	20"
500	3	56"	63"	20"
750	3	68"	64"	20"
1000	3	68"	64"	20"
1500	3	83"	79"	20"
2000	3	89"	88"	20"

NOTES:

- GRADE AND COMPACT THE PAD SITE SO THAT THE TOP FRONT CORNER MATCHES THE CONCRETE SIDEWALK GRADE. THE GROUND SHALL HAVE A SLOPE NOT GREATER THAN 1/2" PER FOOT TOWARDS THE SIDEWALK.
- GRADE SUFFICIENTLY AROUND THE PAD SITE TO PREVENT FUTURE FILLING OF THE AREA. WHEN REQUIRED, CONSTRUCT A RETAINING WALL APPROVED BY GPA ENGINEERING.
- COMPACT BY ROLLING THE AREA IN ACCORDANCE WITH GPA ENGINEERING STANDARD SPECIFICATIONS FOR COMPACTING SIDEWALK AREAS.
- THE DIMENSIONS SHOWN ON THE TABLE ARE GUIDES ONLY. COORDINATE WITH GPA ENGINEERING FOR VERIFICATION OF DIMENSIONS, AS THESE DEPEND ON THE TYPE OF TRANSFORMER BEING SUPPLIED.



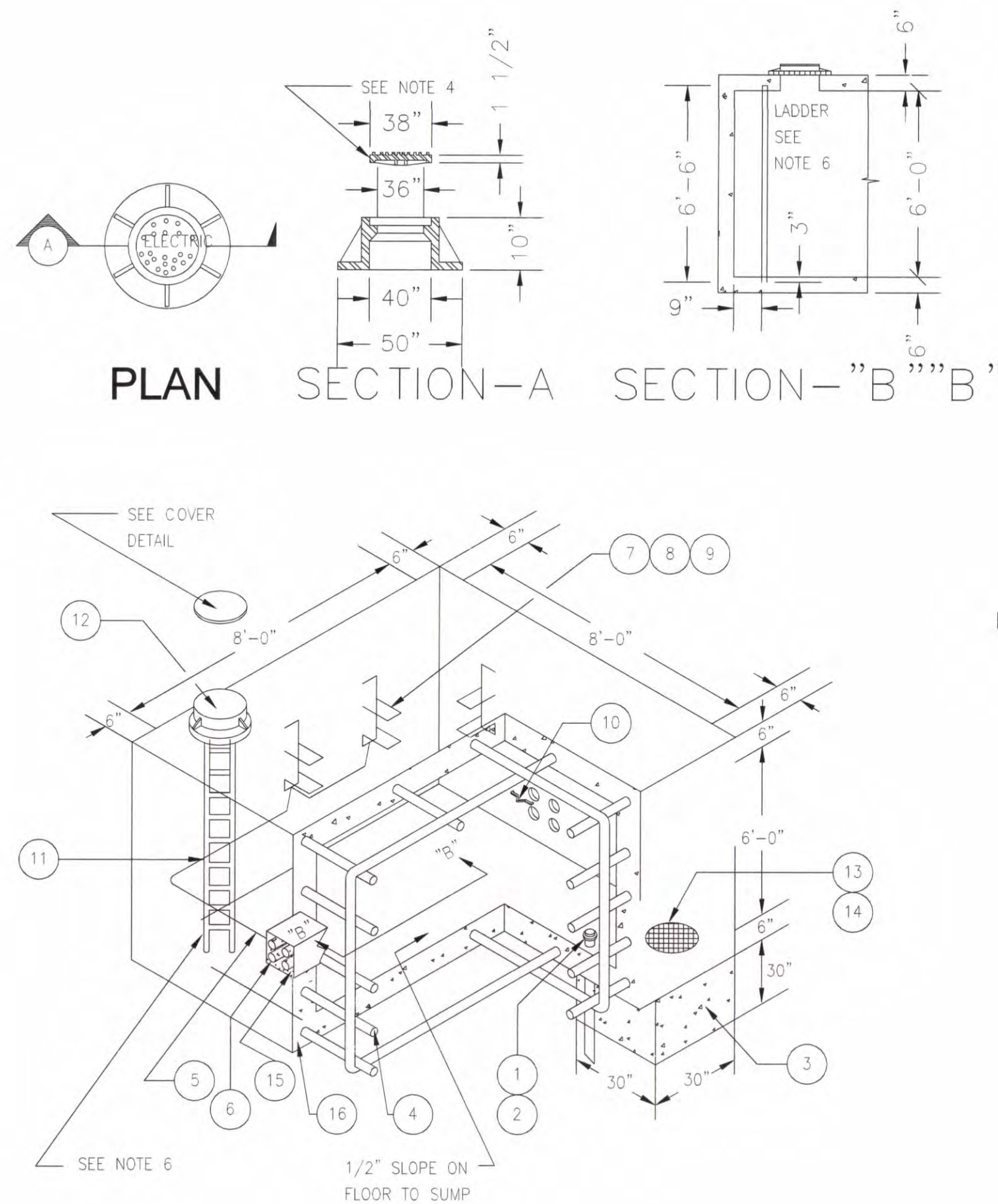
1 TRANSFORMER PAD DETAIL
SCALE N.T.S.



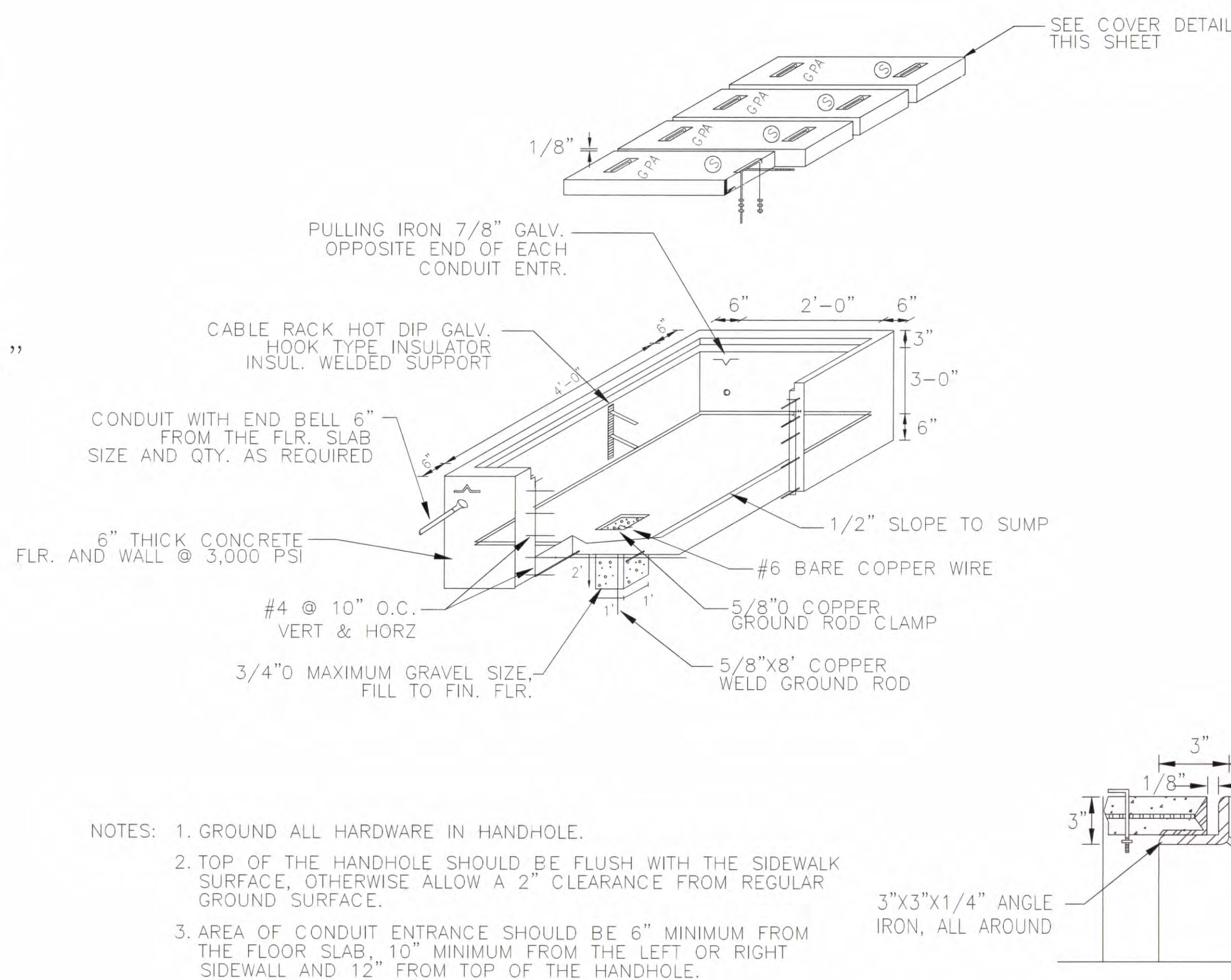
2 GALVANIZED PIPE GUARD
SCALE N.T.S.

NOTES:

- GROUND ALL HARDWARES IN THE MANHOLE.
- AREA OF CONDUIT ENTRANCES SHOULD BE 3'-4" MIN. FROM THE FLOOR SLAB. 12" MIN. FROM THE LEFT OR RIGHT SIDE WALL AND 2" MIN. FROM TOP OF THE MANHOLE.
- THE MANHOLE COVER SHALL BE FLUSH WITH THE ROADWAYS OR SIDEWALK SURFACE. OTHERWISE THERE SHOULD BE A 2" CLEARANCE FROM REGULAR GROUND SURFACE.
- USE A HEAVY DUTY NON-RATTLING MANHOLE COVER AND FRAME SHALL BE CONSTRUCTED OF CORROSION RESISTANT GRAY IRON AND BUILT TO WITHSTAND WEAR AND SHOCK. WEDGE ADJUSTMENT SHALL ELIMINATE NOISE AND LID DISPLACEMENT. COVER SHALL NOT RATTLE OR BECOME LOOSE AND SHOULD REMAIN SECURELY IN FRAME WITHOUT THE USE OF ASPHALT OR OTHER FILLING. USE A CAST CLEATS TYPE SURFACE MANHOLE COVER.
- COVER SHALL BE LOCATED 1" FROM THE CORNER OF THE WALL AND AWAY FROM THE CONDUIT ENTRANCES ON THE SAME WALL.
- STEEL GALVANIZED LADDER SHALL BE CONSTRUCTED TO OBTAIN MAXIMUM STRENGTH AND LONG LIFE UNDER SEVERE CORROSIVE CONDITIONS IN MANHOLES. USE 5/8" ROUND RUNGS EXTEND THROUGH THE RAILS AND WELD BOTH INSIDE AND OUT. SIDE RAIL SHALL BE 1 1/2" x 5/16" x 3/16" CHANNEL. USE 6 RUNGS AT 12" ON CENTER. LADDER END IS TO BE EMBEDDED 3" IN TO THE CONCRETE FLOOR AND ROOF.

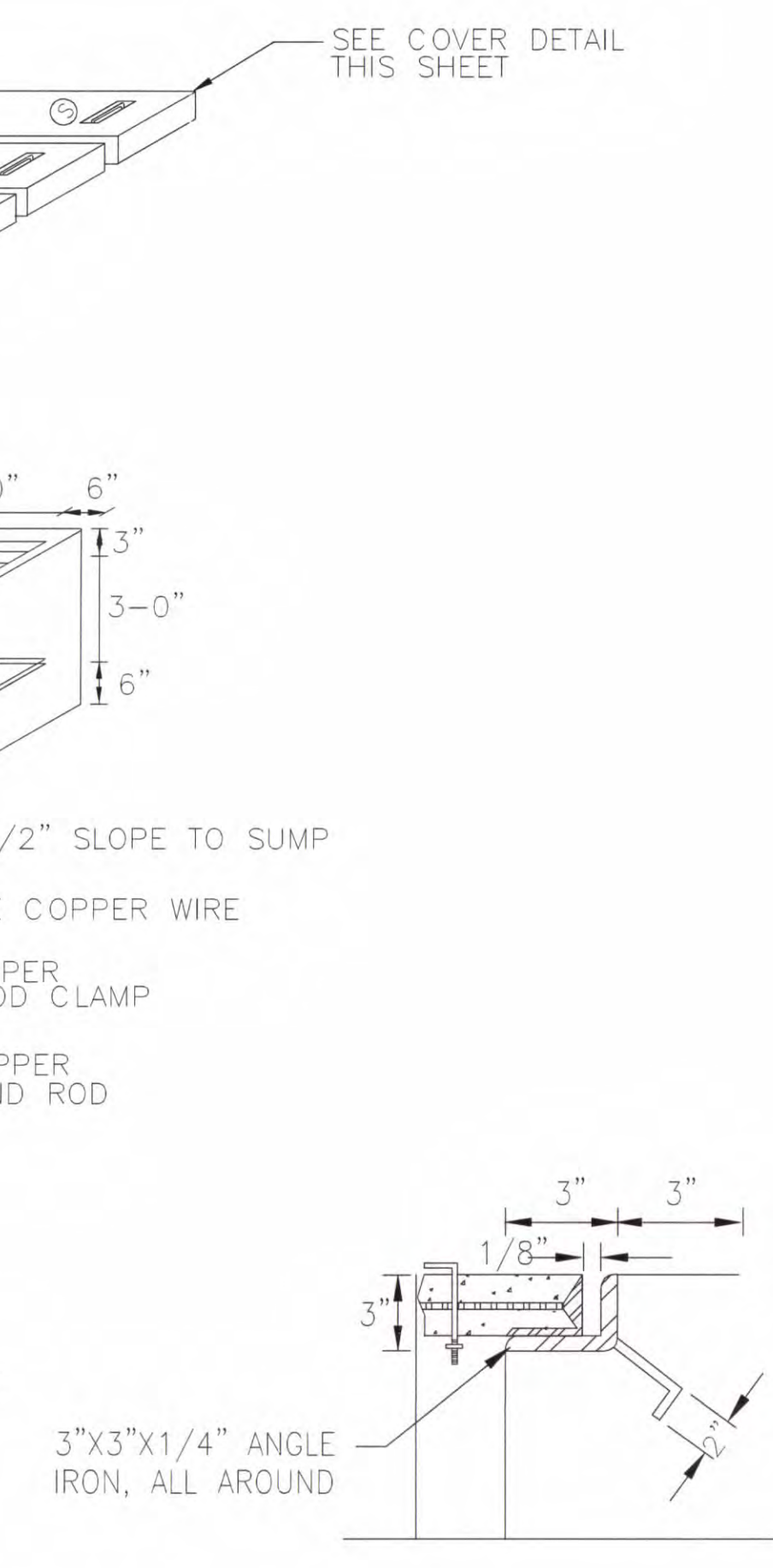


3 8'x8'x6' PRIMARY MANHOLE
SCALE N.T.S.

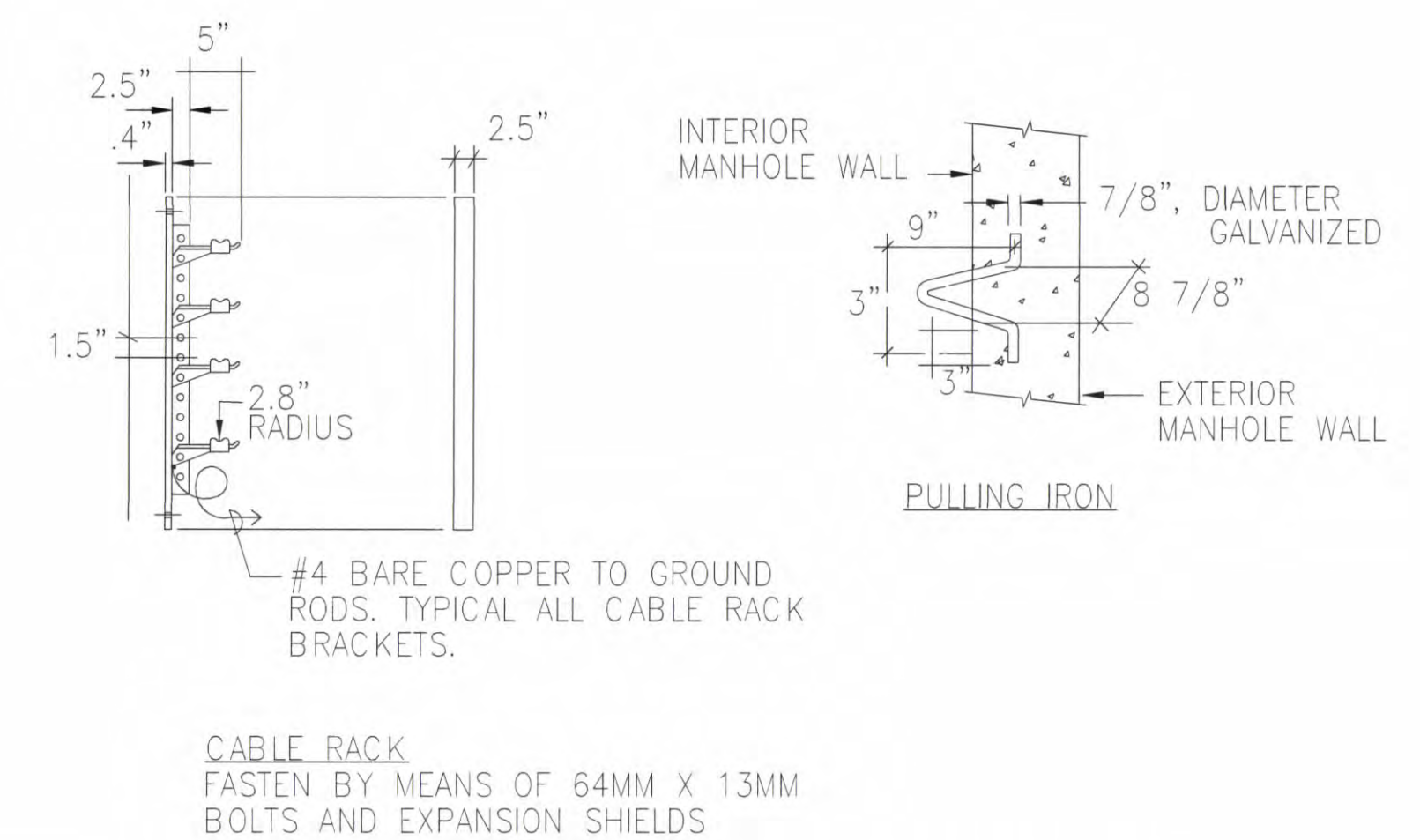


- NOTES:
- GROUND ALL HARDWARE IN HANDHOLE.
 - TOP OF THE HANDHOLE SHOULD BE FLUSH WITH THE SIDEWALK SURFACE, OTHERWISE ALLOW A 2" CLEARANCE FROM REGULAR GROUND SURFACE.
 - AREA OF CONDUIT ENTRANCE SHOULD BE 6" MINIMUM FROM THE FLOOR SLAB, 10" MINIMUM FROM THE LEFT OR RIGHT SIDEWALL AND 12" FROM TOP OF THE HANDHOLE.

4 TV/TEL HANDHOLE DETAIL
SCALE N.T.S.



6 HANDHOLE COVER DETAIL
SCALE N.T.S.



5 MANHOLE/HANDHOLE HARDWARE
SCALE N.T.S.

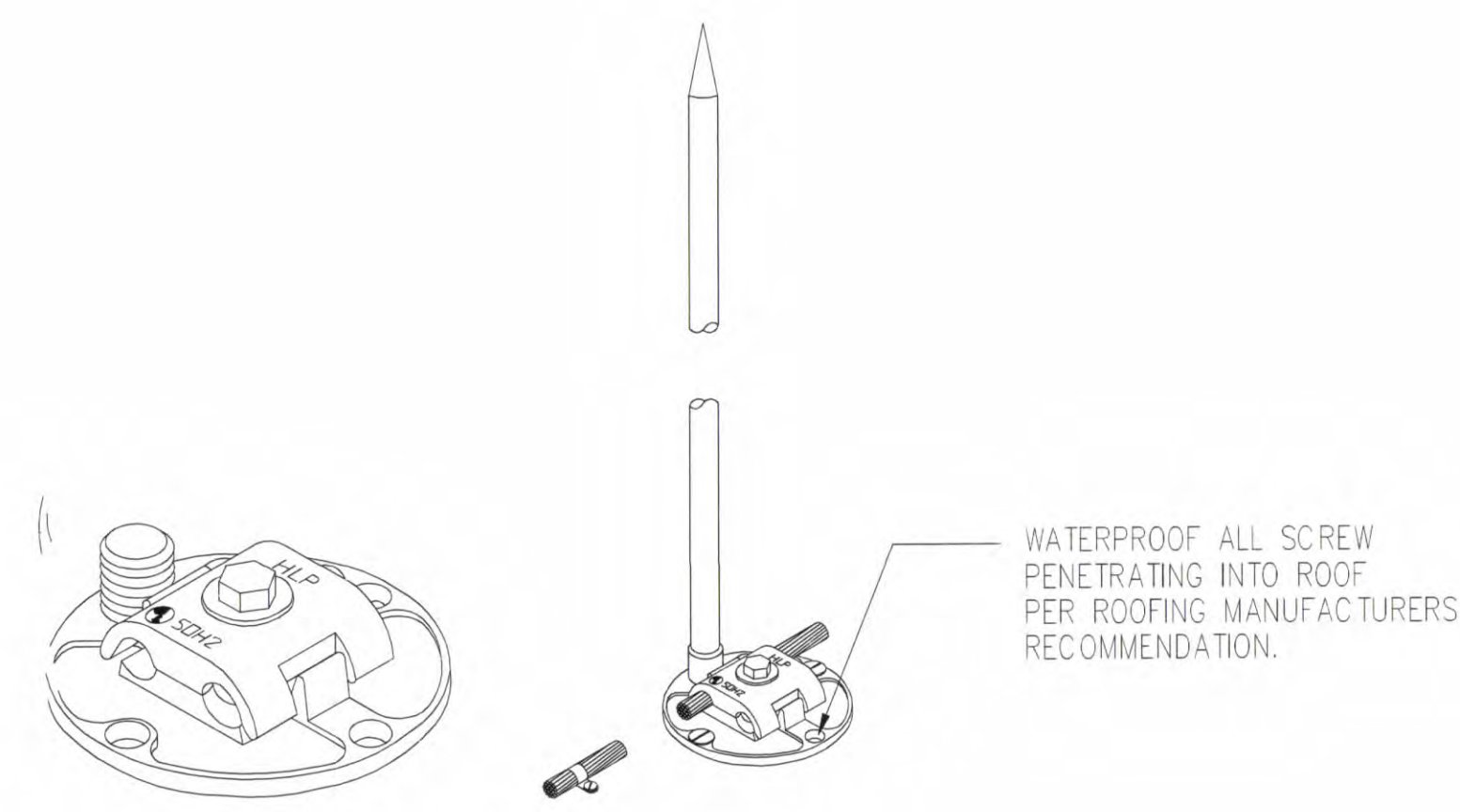
ITEM	DESCRIPTION
1	5/8" O x 8'-0" COPPER WELD GROUND ROD
2	5/8" O COPPER GROUND ROD CLAMP
3	3/4" O MAXIMUM GRAVEL SIZE, FILL TO FINISH FLOOR
4	#4 REBARS AT 6" O.C. BOTH WAYS TOP, SIDES AND BOTTOM
5	#6 COPPER WIRE (SOLID) FOR GROUNDING HARDWARES
6	CONDUIT WITH END BELL, SIZE AND QUANTITY AS REQ'D
7	CABLE RACK HOT DIP GALV.
8	HOOK TYPE INSULATOR
9	INSULATOR WELDED SUPPORT
10	PULLING IRON 7/8" O (GALV.) OPPOSITE END OF EACH CONDUIT ENTRANCE.
11	5/8" STEEL GALV. LADDER, 6'-6" LENGTH
12	BRICK COLLAR LINED UP WITH CEMENT MORTAR
13	7 1/2" O DRAIN (CAST IRON)
14	7 1/2" O PERFORATED COVER (CAST IRON)
15	3" THICK CONCRETE ALL AROUND WHEN REQ'D
16	6" THICK CONCRETE WALL, FLOOR AND ROOF SLAB @ 2500 PSI

3/8" STEEL ROD WELD TO FRAME EVERY 12" O.C.

AS BUILT

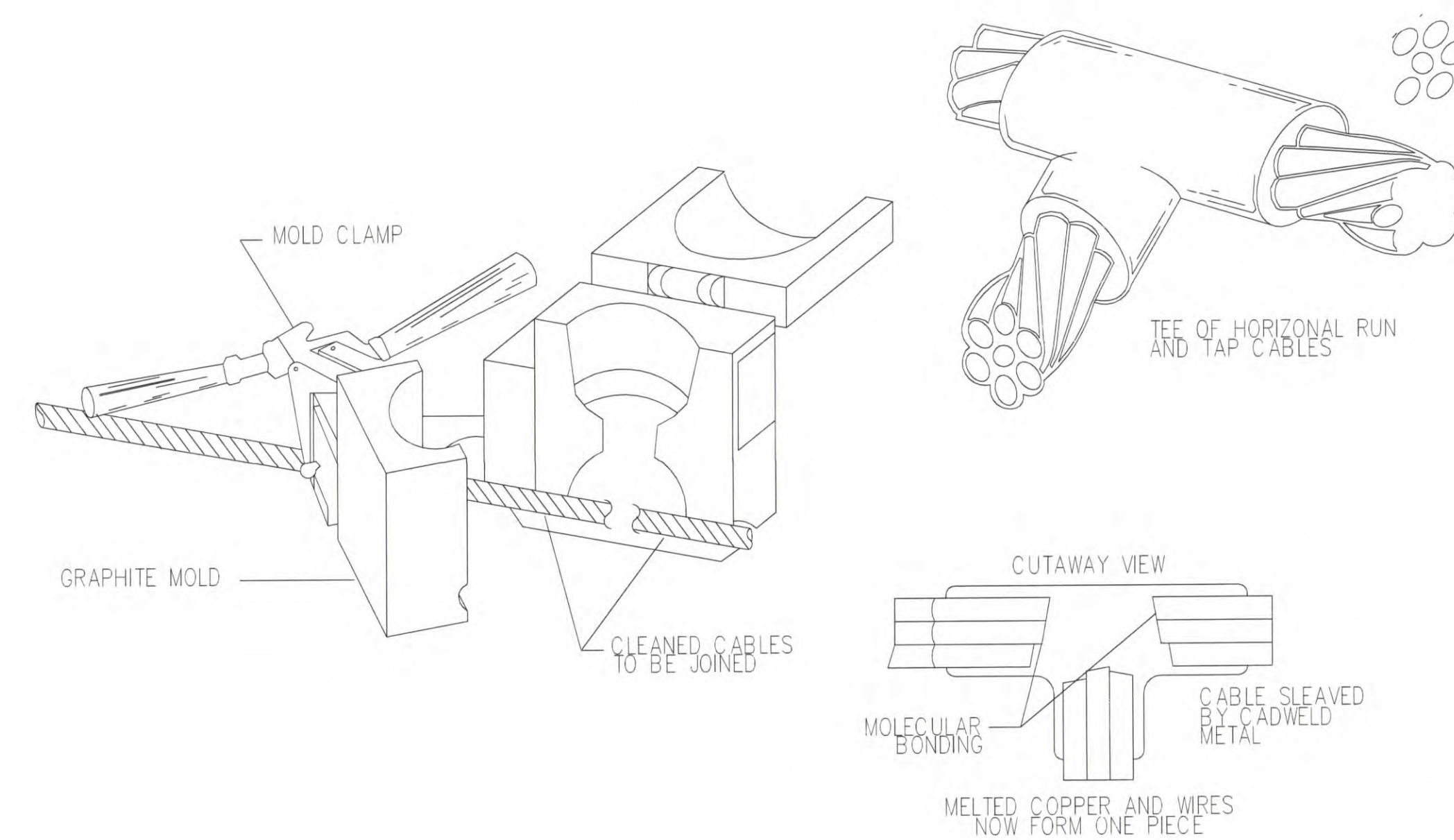
REVISIONS			
SYMBOL	DESCRIPTION	REV.	DATE

<p>I CERTIFY THAT THIS DRAWING WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.</p> <p>WILSON & ASSOCIATES REGISTERED PROFESSIONAL ENGINEERS 1100 K STREET, SUITE 200 HAGATNA, GUAM 96910 PHONE: (671) 833-1111 FAX: (671) 833-1112 WWW.WILSON-ASSOCIATES.COM</p>		<p>RIM ARCHITECTS REGISTERED ARCHITECTS 1100 K STREET, SUITE 200 HAGATNA, GUAM 96910 PHONE: (671) 833-1111 FAX: (671) 833-1112 WWW.RIM-ARCHITECTS.COM</p>	
<p>GUAM POWER AUTHORITY P.O. BOX 2977, HAGATNA, GUAM, USA 96910</p>		<p>PROJECT TITLE GPA - GWA MULTI PURPOSE FACILITY</p>	
<p>DESIGNED BY: VC DRAWN BY: VC ENGINEER SUPERVISOR: PERRY B. TALADOC MANAGER OF ENGINEERING: JOVEN G. ACOSTA ASSISTANT GENERAL MANAGER: MELINDA R. CAMACHO, P.E.</p>	<p>CHECKED BY: WW APPROVED BY: GPA DATE: 2012.11.08 DATE: 11/1/12</p>	<p>PROJECT NO: 124014 - ELECT SHEET NO: 100134 SCALE: 1" = 1'-0" DATE: 2012.11.08 DATE: 11/1/12</p>	<p>SHEET CONTENTS DETAILS SHT 427 OF 438 E-901</p>

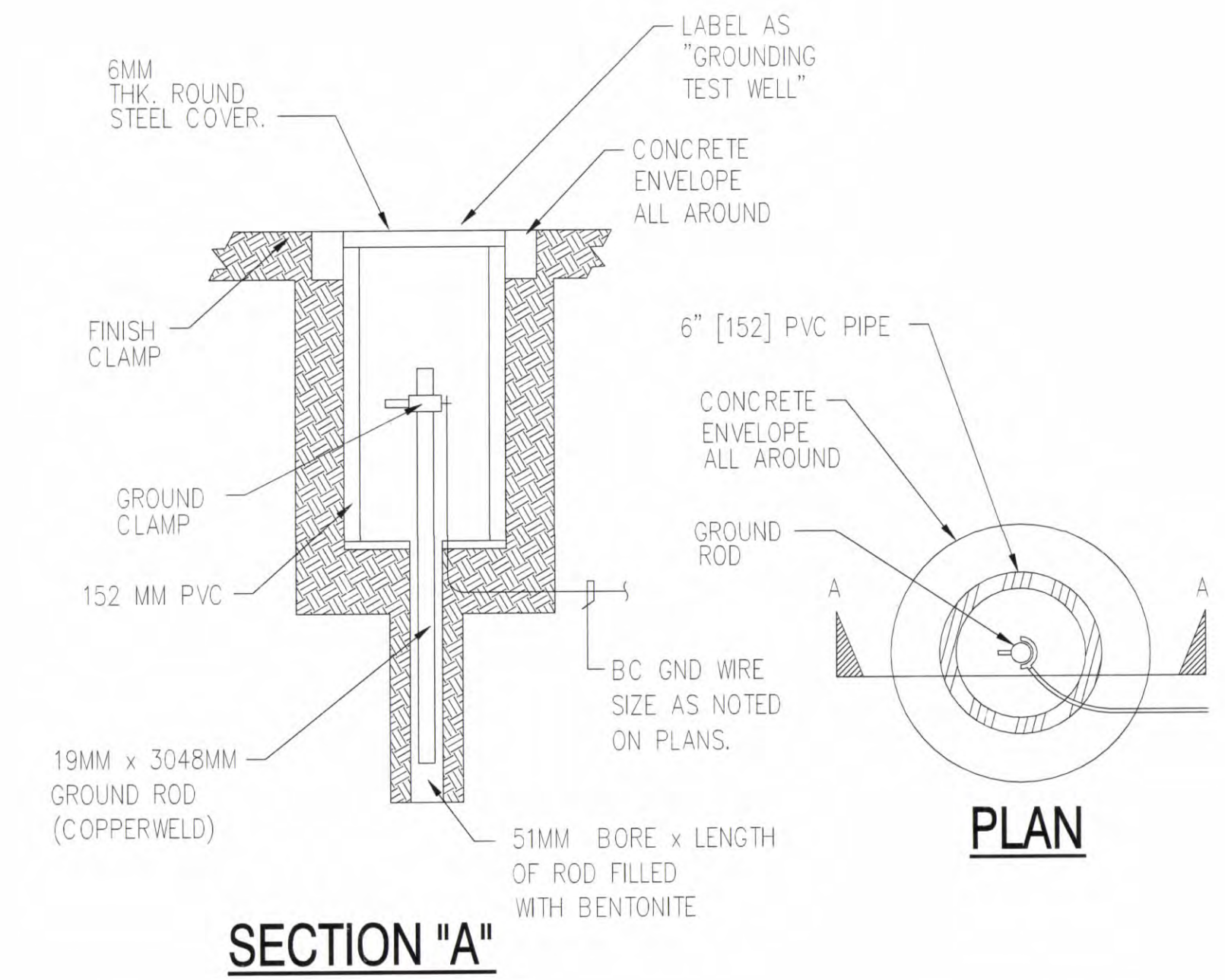


PRESSURE CABLE CONNECTOR ACCOMMODATES ONE OR TWO LIGHTNING CONDUCTORS. 10MM MOUNTING HOLES ARE PROVIDED FOR SECURE MOUNTING TO ANY FLAT SURFACE. 16MM STUD ENGAGES ALL AIR TERMINAL ADAPTERS.

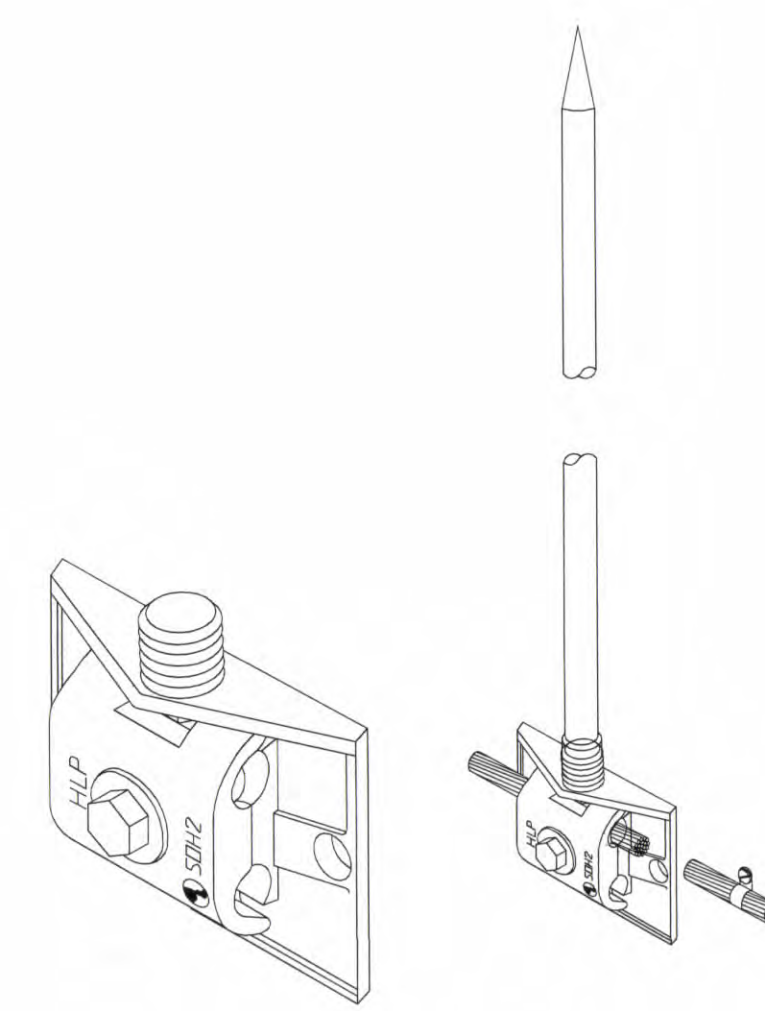
1 AIR TERMINAL MOUNTING DETAIL
SCALE N.T.S.



2 EXOTHERMIC WELD DETAIL
SCALE N.T.S.

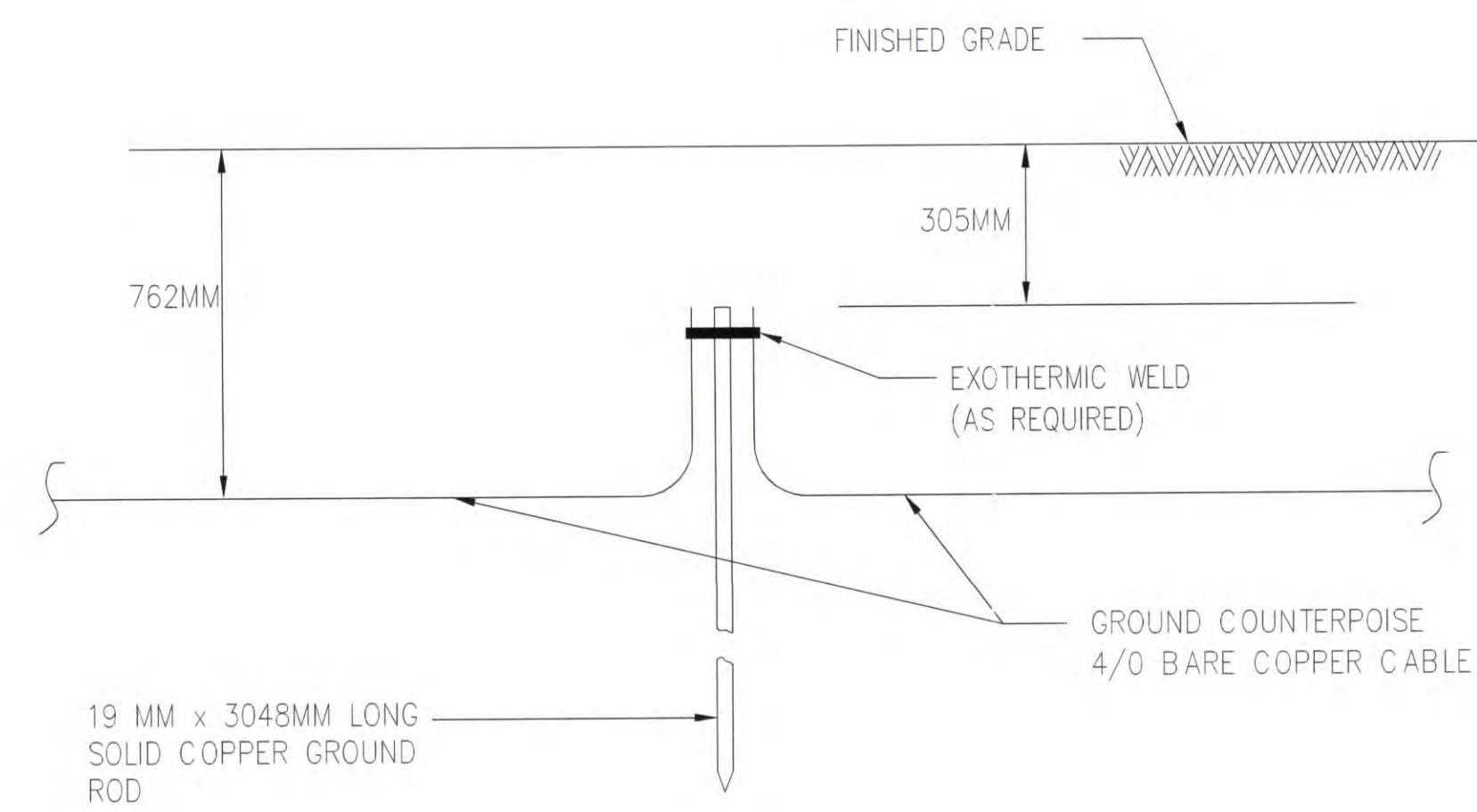


3 GROUND ROD TEST WELD DETAIL
SCALE N.T.S.

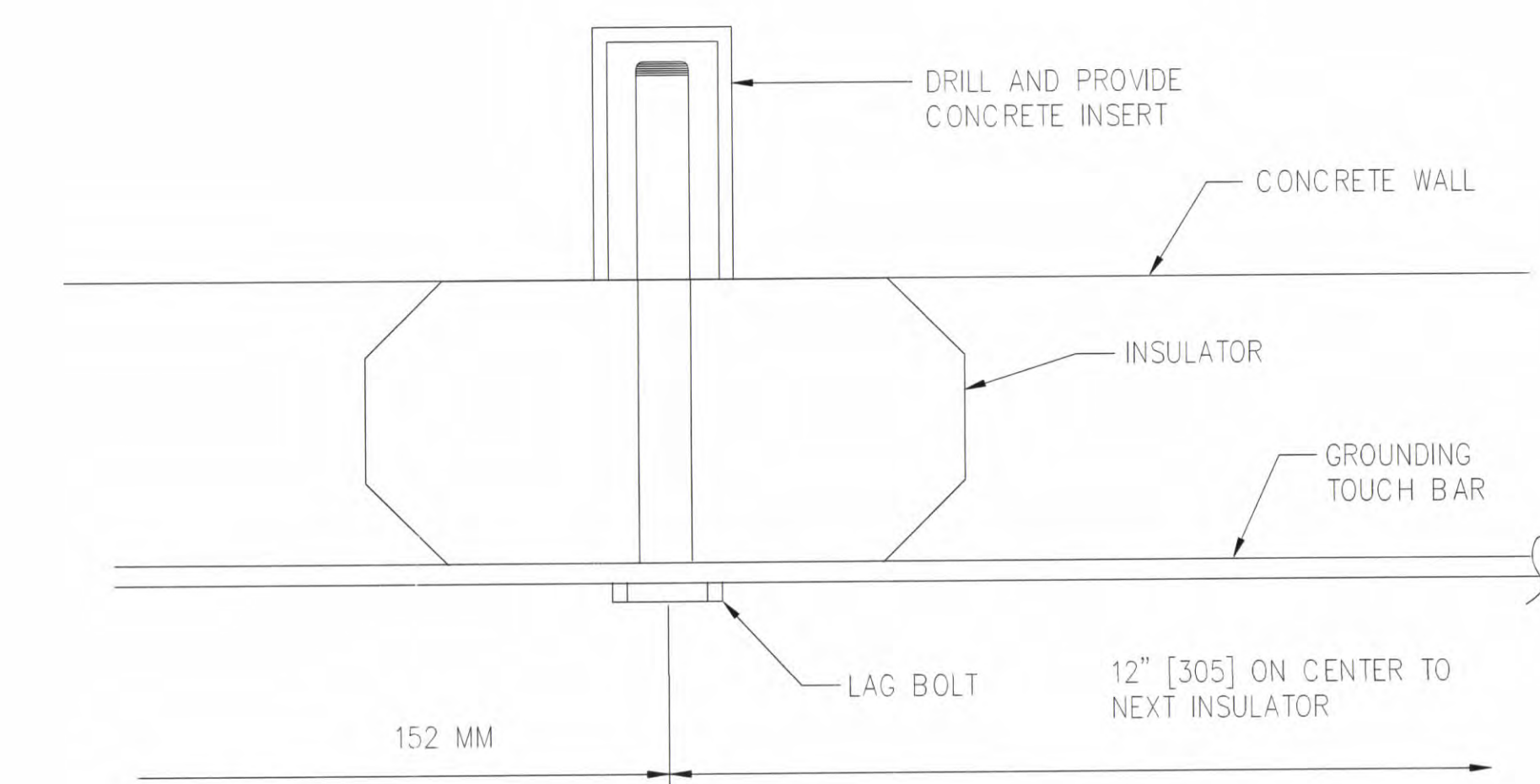


PRESSURE CABLE CONNECTOR ACCOMMODATES ONE OR TWO LIGHTNING CONDUCTORS. 10MM MOUNTING HOLES ARE PROVIDED FOR SECURE MOUNTING TO ANY FLAT SURFACE. 16MM STUD ENGAGES ALL AIR TERMINAL ADAPTERS.

4 PARAPET AIR TERMINAL MOUNTING DETAIL
SCALE N.T.S.



5 GROUNDING ROD DETAIL
SCALE N.T.S.



* GROUND TOUCH BAR SHALL BE 6MM THICK x 51MM WIDE x 610MM LONG FLAT COPPER BAR, SOLDERLESS. 2-HOLE BOLTED CONNECTION LUGS SHALL BE PROVIDED FOR CONNECTIONS TO THE GROUND GRID. LUGS SHALL BE SIZED FOR A 4/0 BARE COPPER CABLE. MOUNT 1016 MM AFF.

5 GROUNDING BAR DETAIL
SCALE N.T.S.

AS BUILT

REVISIONS				
SYMBOL	DESCRIPTION	INT.	DATE	APPD.

AS SET BY GUAM PUBLIC LAW 30-35, SECTION 22118

RIM ARCHITECTS
REGISTERED ARCHITECTS
100134

GPA
GUAM POWER AUTHORITY
P.O. BOX 2977, HAGATNA, GUAM, USA 96910

PROJECT NO: 124014 - ELECT
PROJECT FILE: GPA - GWA MULTI PURPOSE FACILITY

DESIGNED BY: VC	CHECKED BY: WW	DATE: 2012.11.05	JOB NO: 100134	SCALE: 1/8" = 1'-0"	SHT: 429 OF 438
DRAWN BY: VC	APPROVED BY: PERRY B. TALADOC	DATE: 11/1/12	GENERAL MANAGER: JOVEN G. ACOSTA, P.E.	PROJECT MANAGER: MELINDA R. CAMACHO, P.E.	SHEET: E-903