AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES 1 | 1

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
A001	**See block 16C**		

6. ISSUED BY	CODE	7. ADMINISTERED BY *(If other than Item 6)* CODE
U.S. Embassy Phnom Penh #1, Street 96, Sankat Wat Phnom, Daun Penh Phnom Pen, Cambodia Tel: 023 728 000; Fax: 023 728 504		American Embassy Phnom Penh General Services Office/Procurement

8. NAME AND ADDRESS OF CONTRACTOR *(NO., street,city,county,State,and ZIP Code)*	9a. AMENDMENT OF SOLICITATION NO.
	SCB60016Q0001
	9b. DATED (SEE ITEM 11) **October 22, 2015**
	10a. **MODIFICATION OF CONTRACT/ORDER NO.**
	10b. **DATED** *(SEE ITEM 13)*

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[X] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [X] is extended, [] is not extended
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment;(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers.
FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. **ACCOUNTING AND APPROPRIATION DATA** *(If required)*

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b)
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER *(Specify type of modification and authority)* Revise Drawings

E. **IMPORTANT:** Contractor [X] is not, [] is required to sign this document and return ___ copy to the issuing office.

14. **DESCRIPTION OF AMENDMENT/MODIFICATION** *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

This Amendment A001 is to replace Attachment 3: Drawings with a new set of Drawings. Please see attached.

All other terms and conditions remain unchaged and in full force.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME OF CONTRACTING OFFICER **Rebecca C. Raman**	
15B. NAME OF CONTRACTOR/OFFEROR BY _____ *(Signature of person authorized to sign)*	15C.DATE SIGNED	16B. UNITED STATES OF AMERICA BY Rebecca Raman *(Signature of Contracting Officer)*	16C.DATE SIGNED 11-3-15

NSN 7540-01-152-8070
Previous edition unusable

Standard Form 30 (revised 10/83)
Prescribed by GSA FAR (48 CFR) 53.24

U.S. EMBASSY, PHNOM PENH, CAMBODIA
VBS LOCAL CONTRACTOR DRAWING PACKAGE
100% DESIGN SUBMISSION
03/03/15

APPROVED

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DRAWING PACKAGE
for
PHNOM PENH, CAMBODIA

DRAWING TITLE
TITLE PAGE

PHASE
☐ 30%
☐ 90%
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☐ AS-BUILT

CAD FILE NAME
PHED101.dwg

DRAWING SCALE
NONE

PROJECT NUMBER
PHNOM PENH-PME-11-14-11

DRAWN BY
JB

DESIGNED BY
RS

DATE
03/03/15

DRAWING NUMBER
SY1.01
SHEET 1 OF 16

CLASSIFICATION

REV.

DRAWING TITLE	DRAWING NUMBER
TITLE PAGE	SY1.01
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SYMBOLS AND ABBREVIATIONS	SY1.03
SITE PLAN REFERENCE ONLY	SY2.01D
PARTIAL SITE PLAN BUILDING "M" – DEMOLITION	SY2.02D
PARTIAL SITE PLAN BUILDING "M" – EQUIPMENT ROOM – DEMOLITION	SY2.03D
PARTIAL SITE PLAN BUILDING "S" – DEMOLITION	SY2.04D
PARTIAL SITE PLAN BUILDING "S" – EQUIPMENT ROOM – DEMOLITION	SY2.05D
SITE PLAN REFERENCE ONLY	SY2.01
PARTIAL SITE PLAN BUILDING "M" – NEW WORK	SY2.02
PARTIAL SITE PLAN BUILDING "M" – EQUIPMENT ROOM – NEW YORK	SY2.03
PARTIAL SITE PLAN BUILDING "S" – NEW YORK	SY2.04
PARTIAL SITE PLAN BUILDING "S" – EQUIPMENT ROOM – NEW WORK	SY2.05
DETAILS	SY5.01
DETAILS	SY5.02
SCHEDULES	SY6.01

VBS LOCAL CONTRACTOR
DRAWING PACKAGE
for
PHNOM PENH, CAMBODIA

DRAWING TITLE
INDEX PAGE

PHASE
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CAD FILE NAME
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DRAWING SCALE
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PROJECT NUMBER
PHNOM PENH-PME-11-14-11

DRAWN BY
JB

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PS

DATE
03/03/15

DRAWING NUMBER
SY1.02
SHEET 2 OF 16

CLASSIFICATION

REV.

SYMBOLS

- SIGNAL CONDUIT TO REMAIN
- SIGNAL CONDUIT (NEW OR DEMOLITION
- POWER CONDUIT TO REMAIN
- POWER CONDUIT (NEW OR DEMOLITION)
- (W) WATER PIPE TO REMAIN
- (W) WATER PIPE (NEW OR DEMOLITION)
- EXCAVATION (NEW OR DEMOLITION)
- (U) UNDER FLOOR OR GROUND CONDUIT TO REMAIN
- (U) UNDER FLOOR OF GROUND CONDUIT (NEW OR DEMOLITION)
- CONDUIT UP
- CONDUIT DOWN
- CONDUIT BREAK
- CONDUIT CAP
- PB PULL BOX (SIGNAL/POWER)
- HH HANDHOLE
- MH MANHOLE
- MH MANHOLE
- # DEMOLITION WORK KEY NOTE
- # NEW WORK KEY NOTE
- # EQUIPMENT IDENTIFICATION KEY NOTE
- LB CONDUIT OUTLET BODY TYPE "LB"
- J EQUIPMENT JUNCTION BOX
- TL TRAFFIC LIGHT
- BCP BARRIER CONTROL PANEL
- BTP BARRIER TERMINATION PANEL
- BBU BATTERY BACK-UP
- PE PHOTO-ELECTRONIC EYE
- PE PHOT-ELECTRONIC REFLECTOR
- TS THERMOSTAT
- IR INFRARED DETECTOR
- PDP POWER DISTRIBUTION PANEL
- FIBER FIBER PANEL
- DELTA HYDRAULIC PUMP UNIT
- NASATKA HYDRAULIC PUMP UNIT
- BCP / BBU BCP/BBU RACK

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AMP	AMPERE
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
ATC	ACOUSTICAL TILE CEILING
AUTO	AUTOMATIC
AUX	AUXILIARY
AVG	AVERAGE
AVR	AUTOMATIC VOLTAGE REGULATOR
AWG	AMERICAN WIRE GAUGE
BBU	BATTERY BACK-UP
BCP	BARRIER CONTROL PANEL
BFC	BELOW FINISHED CEILING
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
BP	BARRIER PANEL
BSMT	BASEMENT
C	CONDUIT
CAC	COMPOUND ACCESS CONTROL
CAT	CATALOG
CB	CIRCUIT BREAKER
CDU	CABINET POWER DISTRIBUTION UNIT
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CKT	CIRCUIT
CLG	CEILING
COL	COLUMN
COM	COMMON
CONT	CONTINUE, CONTINUOUS
DB	DECIBEL, DIRECT BURIAL
DC	DIRECT CURRENT
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DOS	UNITED STATES DEPARTMENT OF STATE
DWG	DRAWING
E	EAST
(E)	EXISTING
EA	EACH
EC	ELEVTRICAL CABINET
EG	EQUIPMENT GROUND
EL	ELEVATION
ELEC	ELECTRIC(AL)
EMT	ELECTROMETALLIC TUBING
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ET CETERA
EXT	EXTERIOR
FA	FIRE ALARM
FLEX	FLEXIBLE
FMC	FLEXIBLE METAL CONDUIT
FSS	FUSED SAFETY SWITCH
FT	FEET, FOOT
GA	GAUGE
GALV	GALVANIZED
GFCI	GROUND FAULT CKT INTERRUPTER
GFE	GOVERNMENT FURNISHED EQUIPMENT
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GOVT	GOVERNMENT
GRND	GROUND
H, HT	HEIGHT
HDW	HARDWARE
HEX	HEXAGONAL
HH	HANDHOLE
HOR	HORIZONTAL
HPU	HYDRAULIC POWER UNIT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER/IDENTIFICATION
IN	INCH(ES)
INSUL	INSULATION, INSULATED
I/O	INPUT AND OUTPUT
IR	INFRARED
JBOX	JUNCTION BOX
KG	KILOGRAM(S)
KO	KNOCKOUT
KW	KILOWATT(S)
L	LENGTH, LONG, LITER(S)
LFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT
LOTO	LOCK OUT TAG OUT
LxWxH	LENGTH x WIDTH x HEIGHT
m	METER
MAX	MAXIMUM
MECH	MECHANICAL
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MOUNTING HEIGHT, MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETER
MSGQ	MARINE SECURITY GUARD QUARTERS
MTD	MOUNTED
MTG	MOUNTING
N	NORTH
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFSS	NON-FUSED SAFETY SWITCH
NO	NORMALLY OPEN
NOM	NOMINAL
OD	OUTSIDE DIAMETER
OH	OVERHEAD
P	POWER
PAC	PEDESTRIAN ACCESS CONTROL
PB	PULL BOX
PDS	PROTECTED DISTRIBUTION SYSTEMS
PDP	POWER DISTRIBUTION PANEL
PE	PHOTO ELECTRONIC EYE
PNL	PANEL
PRELIM	PRELIMINARY
PSO	POST SECURITY OFFICER
PSU	POWER SUPPLY UNIT
PVC	POLYVINYL CHLORIDE
R	RADIUS, RISER
RECPT	RECEPTACLE
REINF	REINFORCEMENT
REG	REGULATOR
REQD	REQUIRED
REV	REVISION
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RSO	REGIONAL SECURITY OFFICER
S	SOUTH
SCC	SECURITY CONTROL CENTER
SCH	SCHEDULE
SEC	SECURITY
SECT	SECTION
SEO	SECURITY ENGINEERING OFFICER
SH	SHIELD
SHT	SHEET
SIG	SIGNAL
S.O.C.	SECURITY OPERATIONS CENTER
SPDT	SINGLE POLE DOUBLE THROW
SPEC	SPECIFICATION
SQ	SQUARE
SUSP	SUSPENDED
SW	SWITCH
TEMP	TEMPORARY, TEMPERATURE
THHN	THERMOPLASTIC HIGH HEAT RESISTANT NYLON
THRU	THROUGH
TL	TRAFFIC LIGHT
TS	THERMOSTAT
TYP	TYPICAL
U	UNSHIELDED
(U)	UNDERGROUND
UFAS	UNIFORMED FEDERAL ACCESSIBILITY STANDARDS
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT(S)
VERT	VERTICAL
(VIF)	VERIFY IN FIELD
W	WIDTH, WIDE, WEST, WATT(S)
W/	WITH
W/O	WITHOUT
WT	WEIGHT
WTMD	WALK THROUGH METAL DETECTOR
ZN	ZONE
±	PLUS/MINUS
ø	DIAMETER, PHASE

NOTE:

NOT ALL SYMBOLS AND ABBREVIATIONS LISTED ARE APPLICABLE TO THIS DRAWING PACKAGE.

VBS LOCAL CONTRACTOR DRAWING PACKAGE for PHNOM PENH, CAMBODIA

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PROJECT NUMBER: PHNOM PENH-PME-11-14-11

DRAWN BY: JB

DESIGNED BY: PS

DATE: 03/03/15

DRAWING NUMBER: SY1.03

SHEET 3 OF 16

CLASSIFICATION

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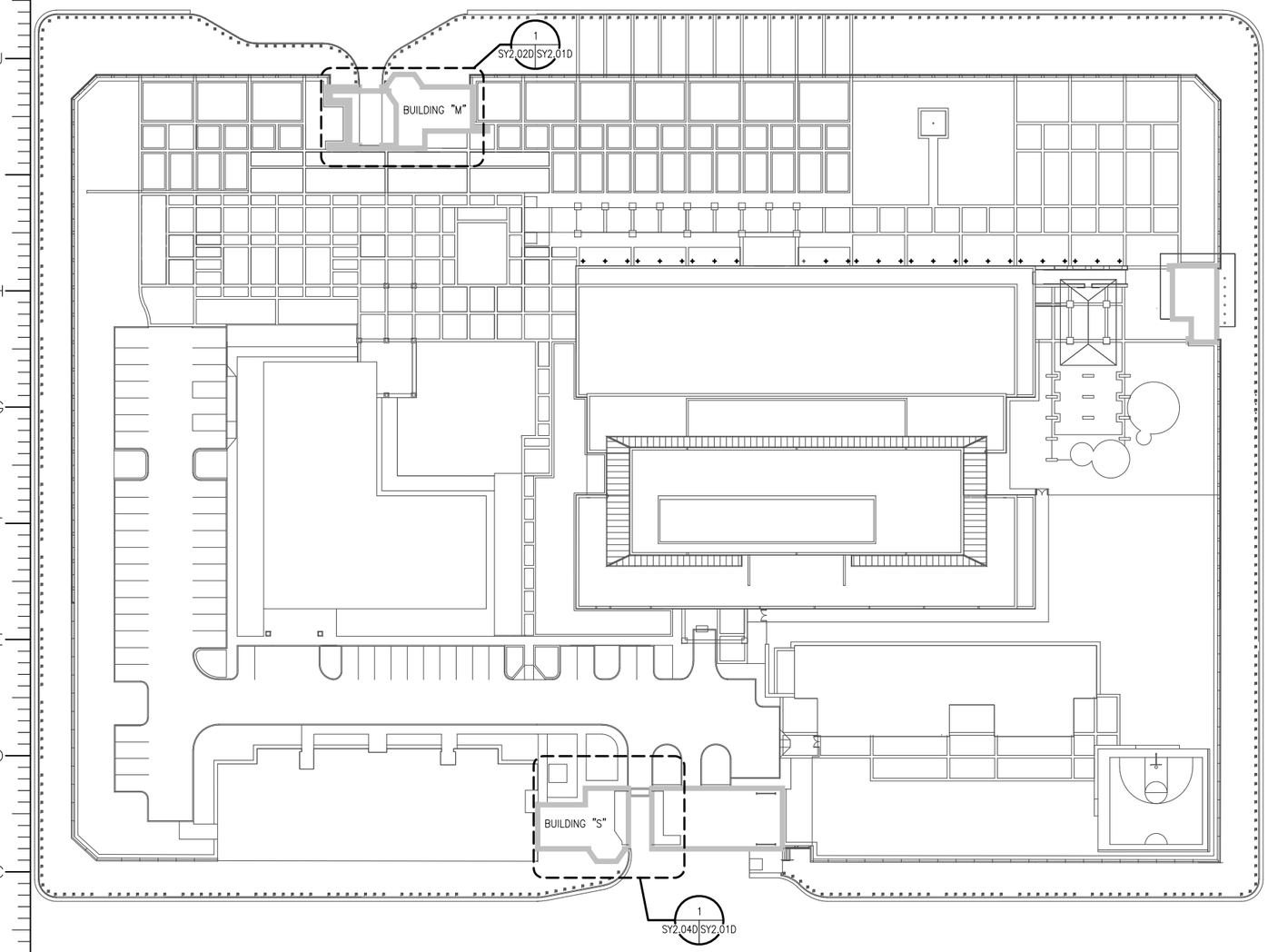

1 SY2.01D SY2.01D SITE PLAN REFERENCE ONLY

SCALE: 1:400

VBS LOCAL CONTRACTOR
DRAWING PACKAGE
for
PHNOM PENH, CAMBODIA

GRAPHICAL SCALES

1:400 — 0, 4000, 8000, 12000, 16000, 20000, 40000mm; 0, 16', 32', 48', 64', 128 ft

DRAWING TITLE: SITE PLAN REFERENCE ONLY

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PROJECT NUMBER: PHNOM PENH-PME-11-14-11

DRAWN BY: JB

DESIGNED BY: PS

DATE: 03/03/15

DRAWING NUMBER: SY2.01D

SHEET 4 OF 16

CLASSIFICATION

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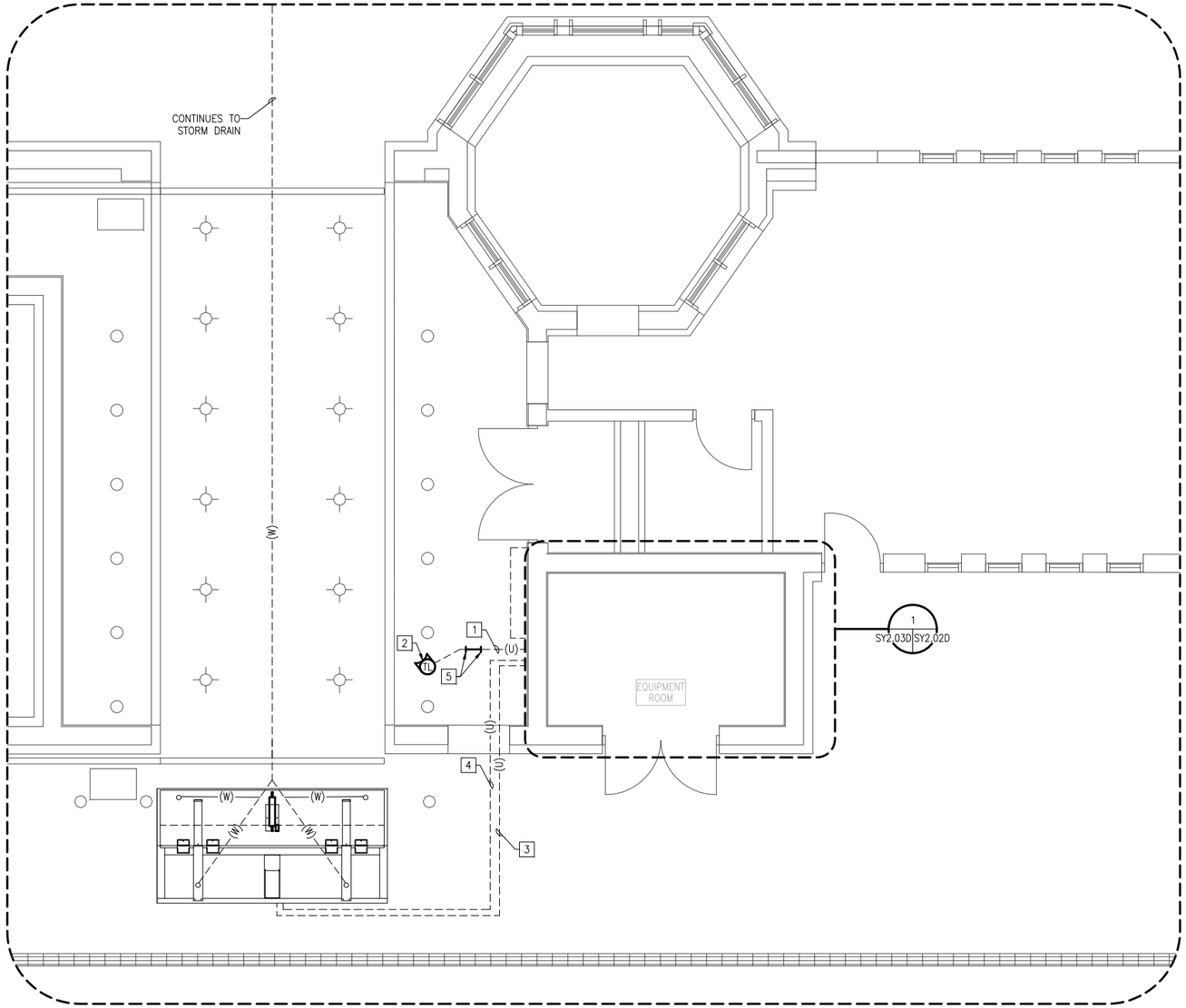


1 SY2.01D SY2.02D PARTIAL SITE PLAN BUILDING "M"

SCALE: 1:40

DRAWING NOTES

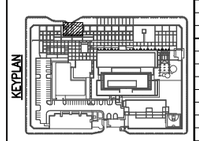
1. SOME EQUIPMENT AND INFRASTRUCTURE IS SHOWN FOR REFERENCE ONLY.

DRAWING KEY NOTES

1. REMOVE WIRING FROM HPU TO TRAFFIC LIGHT. EXISTING CONDUIT TO BE REUSED.
2. REMOVE EXISTING TRAFFIC LIGHT.
3. REMOVE EXISTING WIRING TO LIMIT SWITCH. CONDUIT TO BE REUSED.
4. REMOVE EXISTING HYRAUDLIC LINES FROM HPU TO BARRIER. MEANS OF CONTAINMENT SHALL BE PROVIDED TO PREVENT HYDRAULIC FLUID FROM LEAKING WHEN REMOVING HYDRAULIC LINES. REUSE EXISTING CONDUIT TO PULL NEW HYDRAULIC LINES.
5. CUT EXISTING CONDUIT IN ORDER TO INSTALL A NEW JUNCTION BOX. (2 PLACES)

VBS LOCAL CONTRACTOR
DRAWING PACKAGE
for
PHNOM PENH, CAMBODIA

KEYPLAN



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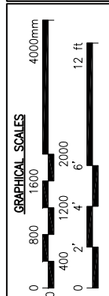

DRAWING TITLE
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DEMOLITION

PHASE
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☐ 90%
■ 100%
☐ AS-BUILT

CAD FILE NAME
PHED202.dwg

DRAWING SCALE
AS NOTED

PROJECT NUMBER
PHNOM PENH-PME-11-14-11

DRAWN BY
JB

DESIGNED BY
RS

DATE
03/03/15

DRAWING NUMBER
SY2.02D
SHEET 5 OF 16

CLASSIFICATION

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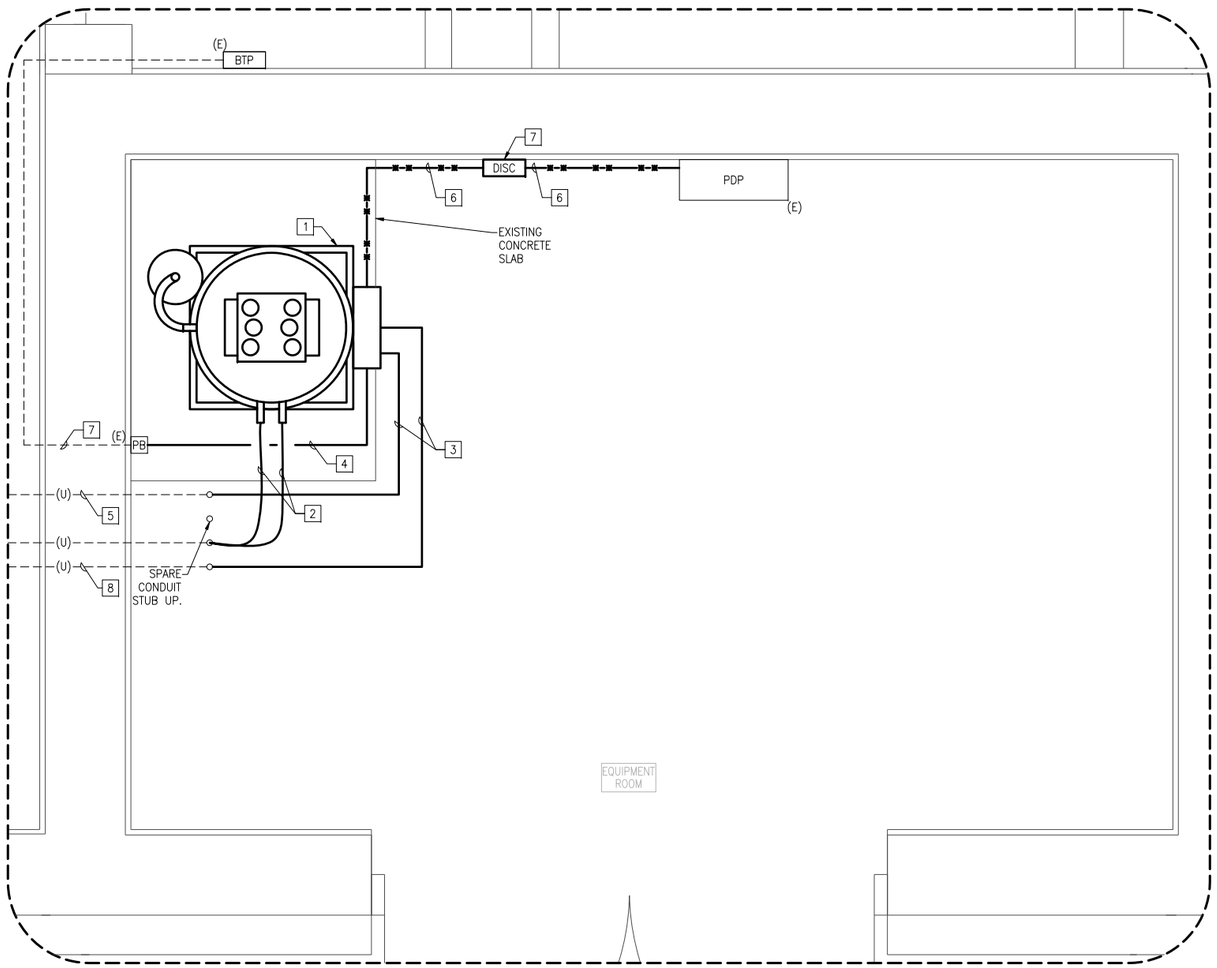

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SY2.02D SY2.03D SCALE: 1:10

PARTIAL SITE PLAN BUILDING "M" – EQUIPMENT ROOM

DRAWING NOTES

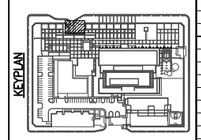
1. SOME EQUIPMENT AND INFRASTRUCTURE IS SHOWN FOR REFERENCE ONLY.

DRAWING KEY NOTES

1. REMOVE EXISTING 3HP NASATKA DIII HYRAULIC PUMP UNIT, CONTROL PANEL, AND ASSOCIATED WIRING. REFER TO NASATKA HPU MANUAL. REPAIR AND FINISH CONCRETE SLAB AS REQUIRED. MEANS OF CONTAINMENT SHALL BE PROVIDED TO PREVENT HYDRAULIC FLUID FROM LEAKING.
2. REMOVE EXISTING HYRAUDLIC LINES FROM HPU TO BARRIER. MEANS OF CONTAINMENT SHALL BE PROVIDED TO PREVENT HYDRAULIC FLUID FROM LEAKING WHEN REMOVING HYDRAULIC LINES.
3. REMOVE FLEX CONDUIT AND WIRING FROM CONDUIT STUB UP TO HPU. (2 PLACES)
4. PME TECH'S WILL DISCONNECT CONTROL WIRING IN HPU CONTROL PANEL. AFTER THIS IS DONE, CONTRACTOR SHALL REMOVE CONTROL WIRING FROM HPU TO BOX ON WALL. REMOVE FLEX CONDUIT FROM BOX TO HPU. CONTROL WIRING TO BE REUSED WITH NEW SYSTEM.
5. REMOVE WIRING FROM HPU TO TRAFFIC LIGHT. EXISTING CONDUIT TO BE REUSED.
6. POST ELECTRICIAN WILL DISCONNECT ALL POWER WIRING TO HPU AND ASSOCIATED EQUIPMENT. AFTER THIS IS DONE, CONTRACTOR SHALL REMOVE EXISTING DISCONNECT SWITCH, CONDUIT AND WIRING FROM PDP TO HPU. LOTO PROCEDURES SHALL BE COMPLIED WITH.
7. CONTROL WIRING RUNNING FROM HPU TO BTP TO BE REUSED WITH NEW SYSTEM.
8. REMOVE EXISTING WIRING TO LIMIT SWITCH. CONDUIT TO BE REUSED.

VBS LOCAL CONTRACTOR
DRAWING PACKAGE
for
PHNOM PENH, CAMBODIA

KEYPLAN



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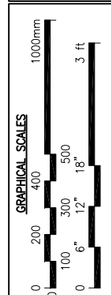

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PARTIAL SITE PLAN BUILDING "M"
EQUIPMENT ROOM
DEMOLITION

PHASE
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DRAWING SCALE
AS NOTED

PROJECT NUMBER
PHNOM PENH-PME-11-14-11

DRAWN BY
JB

DESIGNED BY
PS

DATE
03/03/15

DRAWING NUMBER
SY2.03D
SHEET 6 OF 16

CLASSIFICATION

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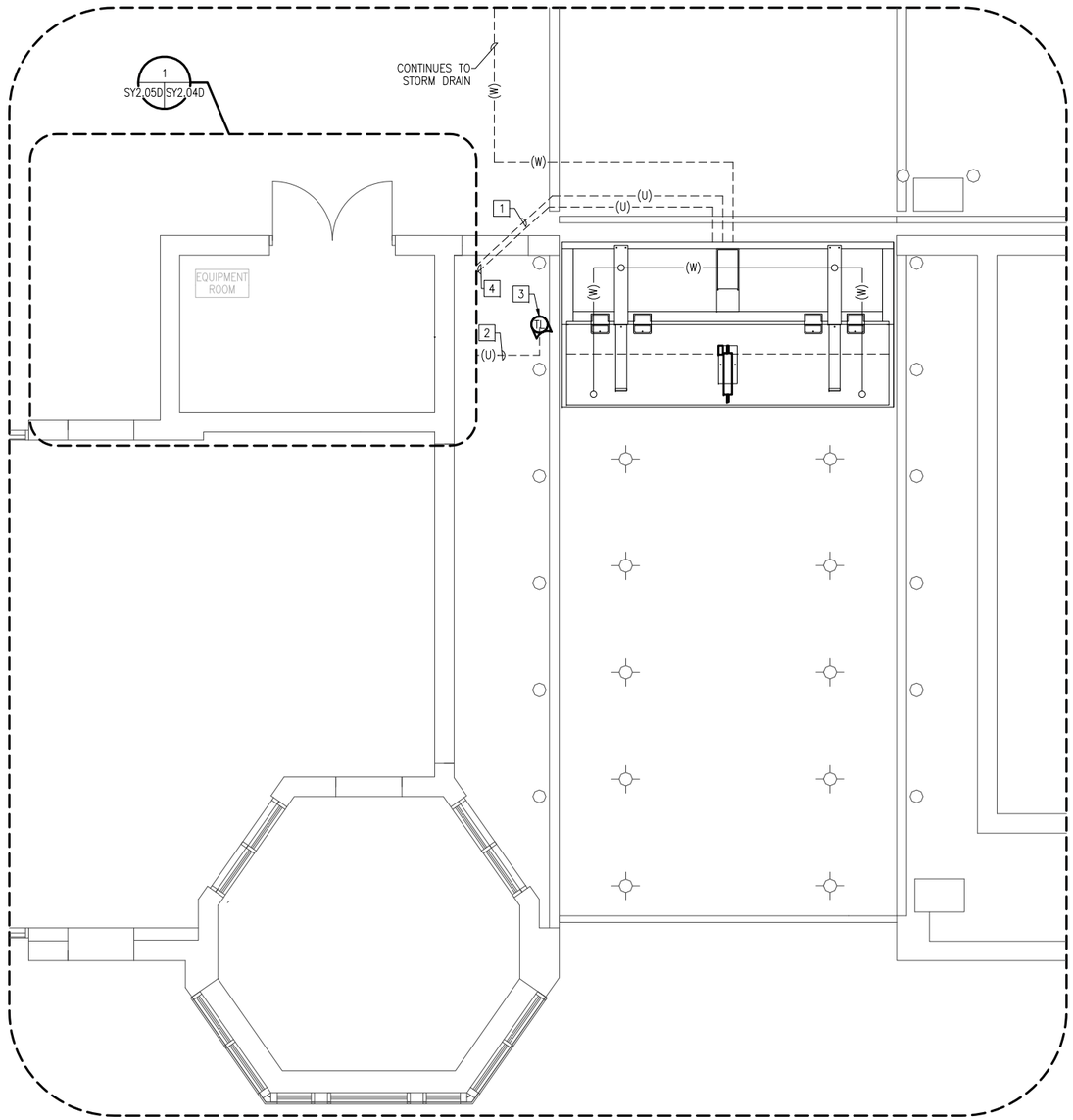


1 SY2.01D SY2.04D PARTIAL SITE PLAN BUILDING "S"
SCALE: 1:30

DRAWING KEY NOTES

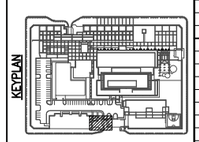
1. SOME EQUIPMENT AND INFRASTRUCTURE IS SHOWN FOR REFERENCE ONLY.

DRAWING KEY NOTES

1. REMOVE EXISTING HYRAUDLIC LINES FROM HPU TO BARRIER. MEANS OF CONTAINMENT SHALL BE PROVIDED TO PREVENT HYDRAULIC FLUID FROM LEAKING WHEN REMOVING HYDRAULIC LINES. REUSE EXISTING CONDUIT TO PULL NEW HYDRAULIC LINES.
2. REMOVE WIRING FROM HPU TO TRAFFIC LIGHT. EXISTING CONDUIT TO BE REUSED.
3. REMOVE EXISTING TRAFFIC LIGHT.
4. REMOVE EXISTING WIRING TO LIMIT SWITCH. CONDUIT TO BE REUSED.

VBS LOCAL CONTRACTOR
DRAWING PACKAGE
for
PHNOM PENH, CAMBODIA

KEYPLAN



GRAPHICAL SCALES
1:30
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0 900 1500

DRAWING TITLE
PARTIAL SITE PLAN BUILDING "S"
DEMOLITION

PHASE
☐ 30% ☐ 90% ■ 100% ☐ AS-BUILT

CAD FILE NAME
PHED204.dwg

DRAWING SCALE
AS NOTED

PROJECT NUMBER
PHNOM PENH-PME-11-14-11

DRAWN BY
JB

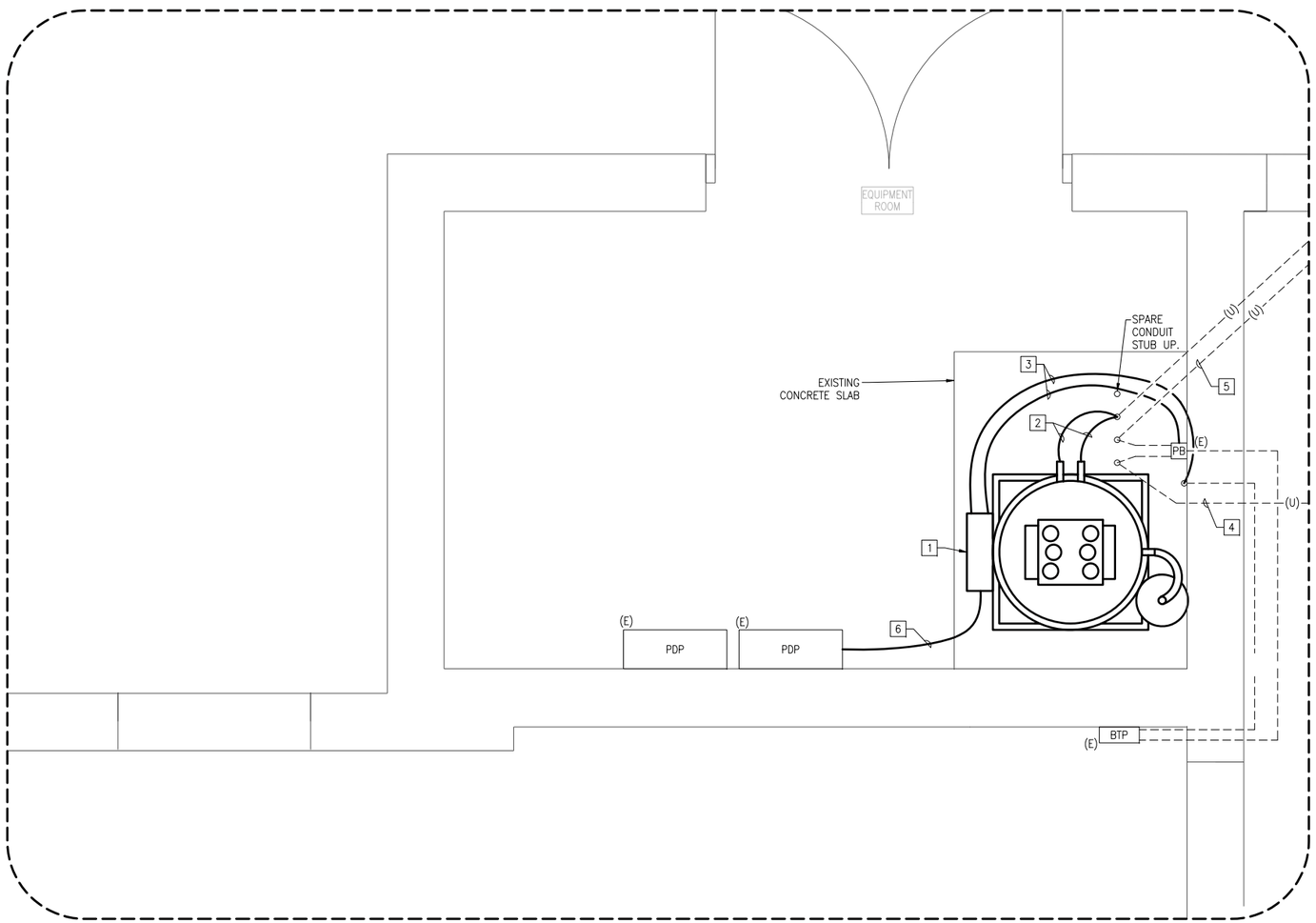
DESIGNED BY
RS

DATE
03/03/15

DRAWING NUMBER
SY2.04D
SHEET 7 OF 16

CLASSIFICATION

REV.



1 SY2.04D | SY2.05D

PARTIAL SCAC PLAN – EQUIPMENT ROOM

SCALE: 1:10

DRAWING NOTES

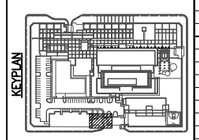
1. SOME EQUIPMENT AND INFRASTRUCTURE IS SHOWN FOR REFERENCE ONLY.

DRAWING KEY NOTES

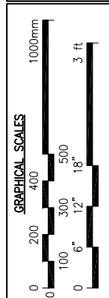
1. REMOVE EXISTING 3HP NASATKA DIII HYRAULIC PUMP UNIT, CONTROL PANEL, AND ASSOCIATED WIRING. REFER TO NASATKA HPU MANUAL. REPAIR AND FINISH CONCRETE SLAB AS REQUIRED. MEANS OF CONTAINMENT SHALL BE PROVIDED TO PREVENT HYDRAULIC FLUID FROM LEAKING.
2. REMOVE EXISTING HYRAUDLIC LINES FROM HPU TO BARRIER. MEANS OF CONTAINMENT SHALL BE PROVIDED TO PREVENT HYDRAULIC FLUID FROM LEAKING WHEN REMOVING HYDRAULIC LINES.
3. PME TECH'S WILL DISCONNECT CONTROL WIRING IN HPU CONTROL PANEL. AFTER THIS IS DONE, CONTRACTOR SHALL REMOVE CONTROL WIRING FROM HPU TO BOX ON WALL. REMOVE FLEX CONDUIT FROM BOX TO HPU. CONTROL WIRING TO BE REUSED WITH NEW SYSTEM.
4. REMOVE WIRING FROM HPU TO TRAFFIC LIGHT. EXISTING CONDUIT TO BE REUSED.
5. REMOVE EXISTING WIRING TO LIMIT SWITCH. CONDUIT TO BE REUSED.
6. POST ELECTRICIAN WILL DISCONNECT ALL POWER WIRING TO HPU AND ASSOCIATED EQUIPMENT. AFTER THIS IS DONE, CONTRACTOR SHALL REMOVE EXISTING CONDUIT AND WIRING FROM PDP TO HPU. LOTO PROCEDURES SHALL BE COMPLIED WITH.

VBS LOCAL CONTRACTOR
DRAWING PACKAGE
for
PHNOM PENH, CAMBODIA

KEYPLAN



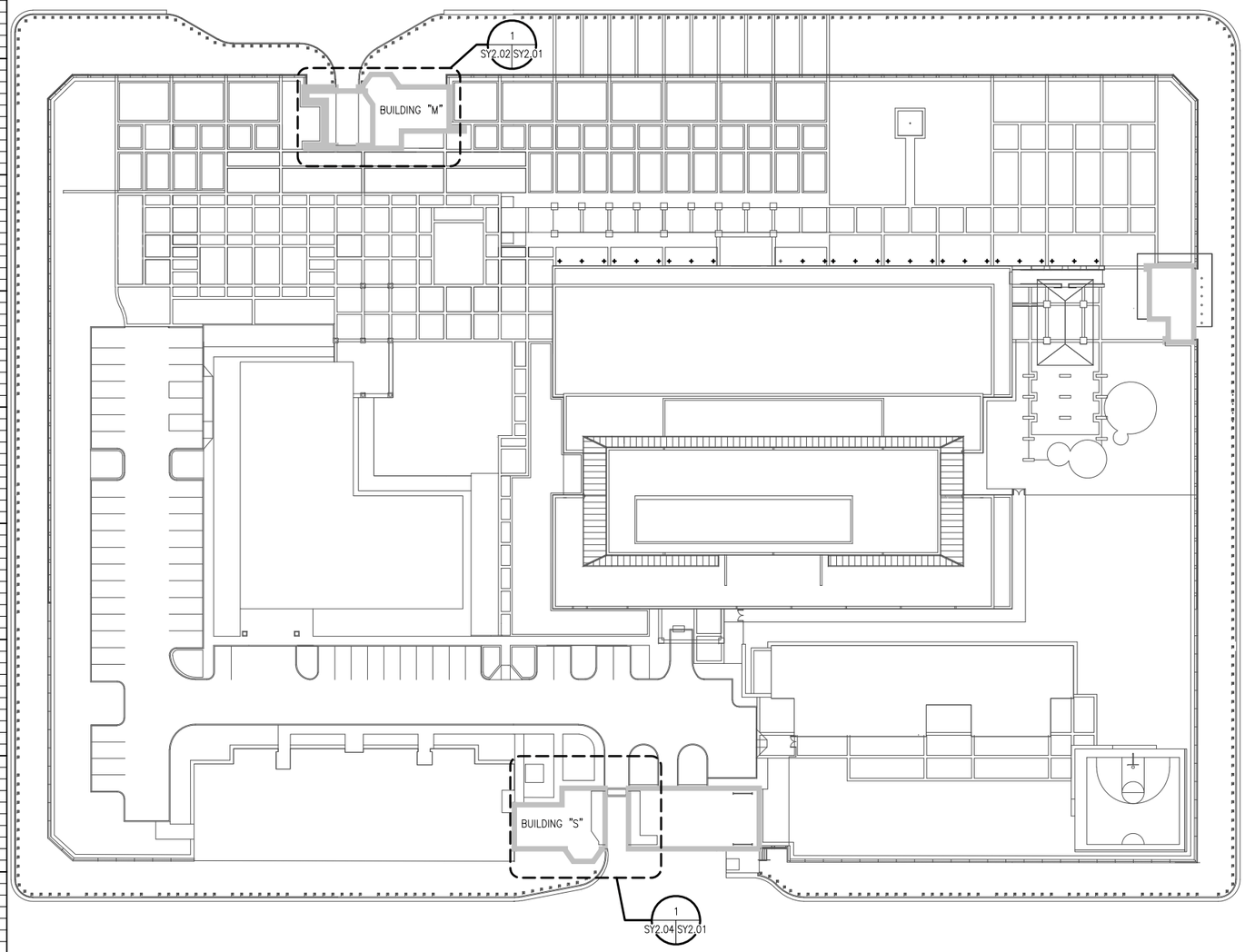
GRAPHICAL SCALES



DRAWING TITLE
PARTIAL SCAC PLAN
EQUIPMENT ROOM
DEMOLITION

PHASE
☐ 30%
☐ 90%
■ 100%
☐ AS-BUILT

CAD FILE NAME	PHED205.dwg
DRAWING SCALE	AS NOTED
PROJECT NUMBER	PHNOM PENH-PME-11-14-11
DRAWN BY	JB
DESIGNED BY	RS
DATE	03/03/15
DRAWING NUMBER	SY2.05D
SHEET	8 OF 16
CLASSIFICATION	
REV.	



1 SY2.01 SY2.01 SITE PLAN REFERENCE ONLY

SCALE: 1:400

VBS LOCAL CONTRACTOR
DRAWING PACKAGE
for
PHNOM PENH, CAMBODIA

GRAPHICAL SCALES

1:400 — 0, 8000, 16000, 40000mm; 0, 4000, 12000, 20000; 0, 16', 32', 48', 64', 128 ft

DRAWING TITLE: SITE PLAN REFERENCE ONLY

PHASE: ☐ 30% ☐ 90% ■ 100% ☐ AS-BUILT

CAD FILE NAME: PHED201.dwg

DRAWING SCALE: AS NOTED

PROJECT NUMBER: PHNOM PENH-PME-11-14-11

DRAWN BY: JB

DESIGNED BY: PS

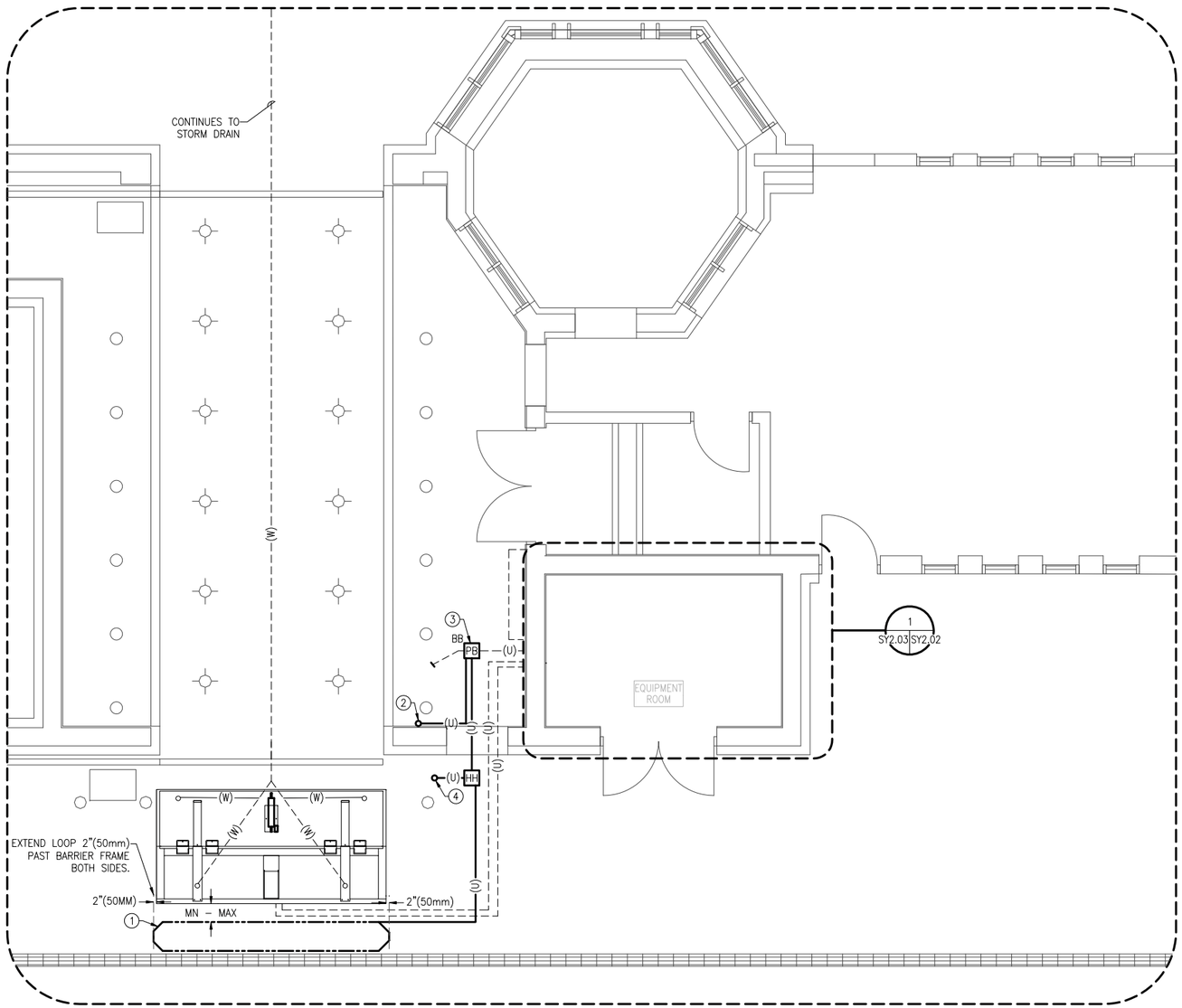
DATE: 03/03/15

DRAWING NUMBER: SY2.01

SHEET 9 OF 16

CLASSIFICATION

REV.



1 SY2.01 SY2.02 PARTIAL SITE PLAN – BUILDING "M"

SCALE: 1:40

DRAWING NOTES

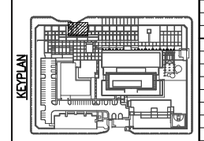
1. NO CLIMBABLE FEATURES SHALL BE INSTALLED WITHIN THE SALLY PORT.
2. ALL CONDUIT IS 1" PVC UNLESS NOTED OTHERWISE.
3. SOME EQUIPMENT AND INFRASTRUCTURE IS SHOWN FOR REFERENCE ONLY.
4. ALL CONDUIT SHALL BE INSTALLED AS COMPLETE ASSEMBLIES. DRAG LINES SHALL BE PULLED IN ALL ASSOCIATED CONDUIT FOR FUTURE WIRE PULLS.
5. WHERE WHERE PVC EXITS FROM BELOW GROUND, TRANSITION TO RGS 5' BACK FROM WHERE THE PVC EXITS THE GROUND.
6. CONTRACTOR SHALL ASSIST PME TECHS WHERE REQUIRED.

DRAWING KEY NOTES

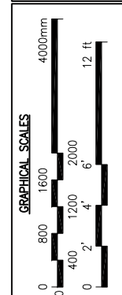
1. CUT CONCRETE FOR NEW SAFETY LOOP. SIZE AND LOCATION OF SAFETY LOOP CUT TO BE DETERMINED BY PME LEAD TECH.
2. INSTALL NEW CONDUIT FOR PHOTO EYE.
3. INSTALL NEW 6" x 6" FLOOR BOX.
4. INSTALL NEW CONDUIT FOR TRAFFIC LIGHT.

VBS LOCAL CONTRACTOR DRAWING PACKAGE for PHNOM PENH, CAMBODIA

KEYPLAN



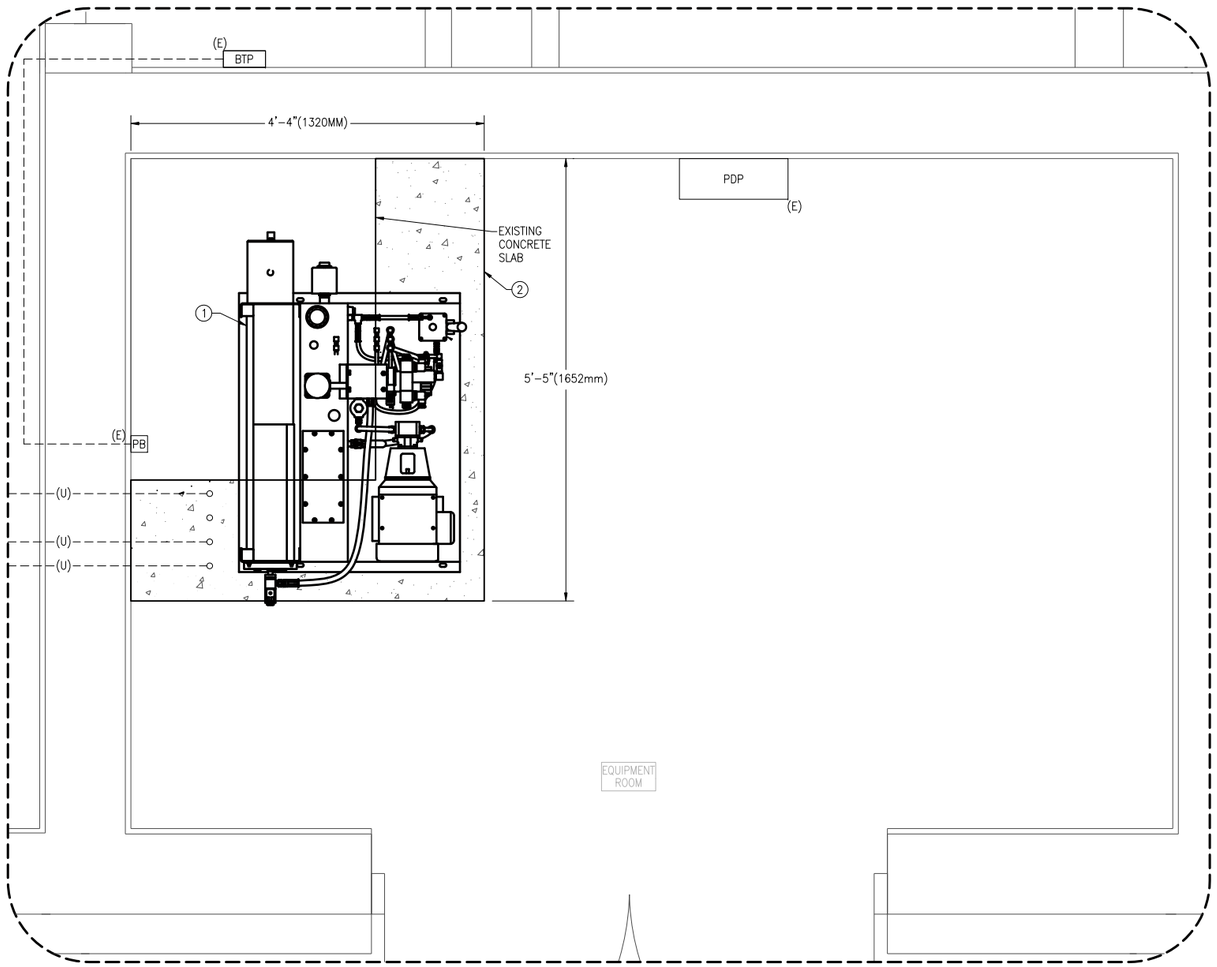
GRAPHICAL SCALES



DRAWING TITLE: PARTIAL SITE PLAN BUILDING "M" NEW WORK

PHASE: ☐ 30% ☐ 90% ■ 100% ☐ AS-BUILT

CAD FILE NAME	PHED202.dwg
DRAWING SCALE	AS NOTED
PROJECT NUMBER	PHNOM PENH–PME–11–14–11
DRAWN BY	JB
DESIGNED BY	PG
DATE	03/03/15
DRAWING NUMBER	SY2.02
SHEET	10 OF 16
CLASSIFICATION	
REV.	



1 SY2.02 | SY2.03

PARTIAL SITE PLAN BUILDING "M" – EQUIPMENT ROOM

SCALE: 1:10

DRAWING NOTES

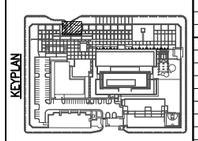
1. NO CLIMBABLE FEATURES SHALL BE INSTALLED WITHIN THE SALLY PORT.
2. ALL CONDUIT IS 1" PVC UNLESS NOTED OTHERWISE.
3. SOME EQUIPMENT AND INFRASTRUCTURE IS SHOWN FOR REFERENCE ONLY.
4. ALL CONDUIT SHALL BE INSTALLED AS COMPLETE ASSEMBLIES. DRAG LINES SHALL BE PULLED IN ALL ASSOCIATED CONDUIT FOR FUTURE WIRE PULLS.
5. WHERE WHERE PVC EXITS FROM BELOW GROUND, TRANSITION TO RGS 5' BACK FROM WHERE THE PVC EXITS THE GROUND.
6. CONTRACTOR SHALL ASSIST PME TECHS WHERE REQUIRED.

DRAWING KEY NOTES

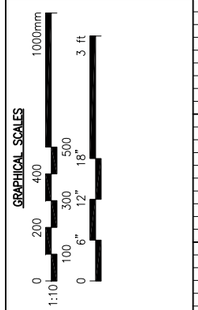
1. INSTALL NEW DELTA HYDRAULIC PUMP UNIT. REFER TO DELTA HPU MANUAL.
2. EXTEND EXISTING CONCRETE PAD TO ACCOMODATE NEW DELTA HPU FRAME.

VBS LOCAL CONTRACTOR
DRAWING PACKAGE
for
PHNOM PENH, CAMBODIA

KEYPLAN



GRAPHICAL SCALES



DRAWING TITLE
PARTIAL SITE PLAN BUILDING "M"
EQUIPMENT ROOM
NEW WORK

PHASE
☐ 30%
☐ 90%
■ 100%
☐ AS-BUILT

CAD FILE NAME
PHED203.dwg

DRAWING SCALE
AS NOTED

PROJECT NUMBER
PHNOM PENH-PME-11-14-11

DRAWN BY
JB

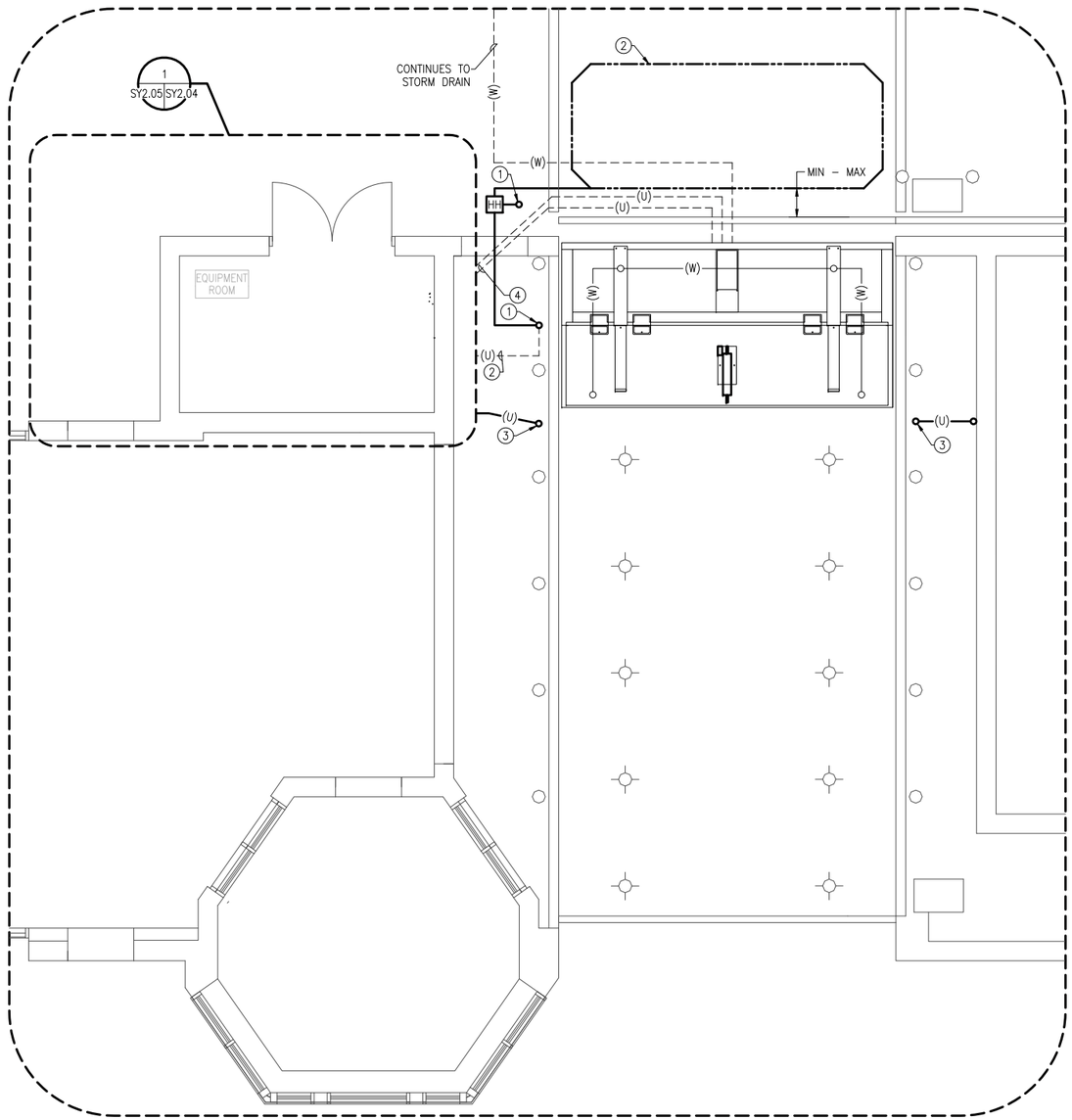
DESIGNED BY
RS

DATE
03/03/15

DRAWING NUMBER
SY2.03
SHEET 11 OF 16

CLASSIFICATION

REV.



1 SY2.01 SY2.04 PARTIAL SITE PLAN BUILDING "S"

SCALE: 1:30

DRAWING NOTES

1. NO CLIMBABLE FEATURES SHALL BE INSTALLED WITHIN SALLY PORT.
2. ALL CONDUIT IS 1" PVC UNLESS NOTED OTHERWISE.
3. SOME EQUIPMENT AND INFRASTRUCTURE IS SHOWN FOR REFERENCE ONLY.
4. ALL CONDUIT SHALL BE INSTALLED AS COMPLETE ASSEMBLIES. DRAG LINES SHALL BE PULLED IN ALL ASSOCIATED CONDUIT FOR FUTURE WIRE PULLS.
5. WHERE WHERE PVC EXITS FROM BELOW GROUND, TRANSITION TO RGS 5' BACK FROM WHERE THE PVC EXITS THE GROUND.
6. CONTRACTOR SHALL ASSIST PME TECHS WHERE REQUIRED.

DRAWING KEY NOTES

1. INSTALL NEW CONDUIT FOR TRAFIC LIGHT. (2 PLACES)
2. CUT CONCRETE FOR NEW SAFETY LOOP. SIZE AND LOCATION OF SAFETY LOOP CUT TO BE DETERMINED BY PME LEAD TECH.
3. INSTALL NEW CONDUIT FOR PHOTO EYE. (2 PLACES)

VBS LOCAL CONTRACTOR DRAWING PACKAGE for PHNOM PENH, CAMBODIA

KEYPLAN

GRAPHICAL SCALES

1:30: 0, 300, 600, 1200, 1500, 3000mm

0, 18", 36", 54", 9 ft

DRAWING TITLE: PARTIAL SITE PLAN BUILDING "S" NEW WORK

PHASE: ☐ 30% ☐ 90% ■ 100% ☐ AS-BUILT

CAD FILE NAME: PHED204.dwg

DRAWING SCALE: AS NOTED

PROJECT NUMBER: PHNOM PENH–PME–11–14–11

DRAWN BY: JB

DESIGNED BY: RS

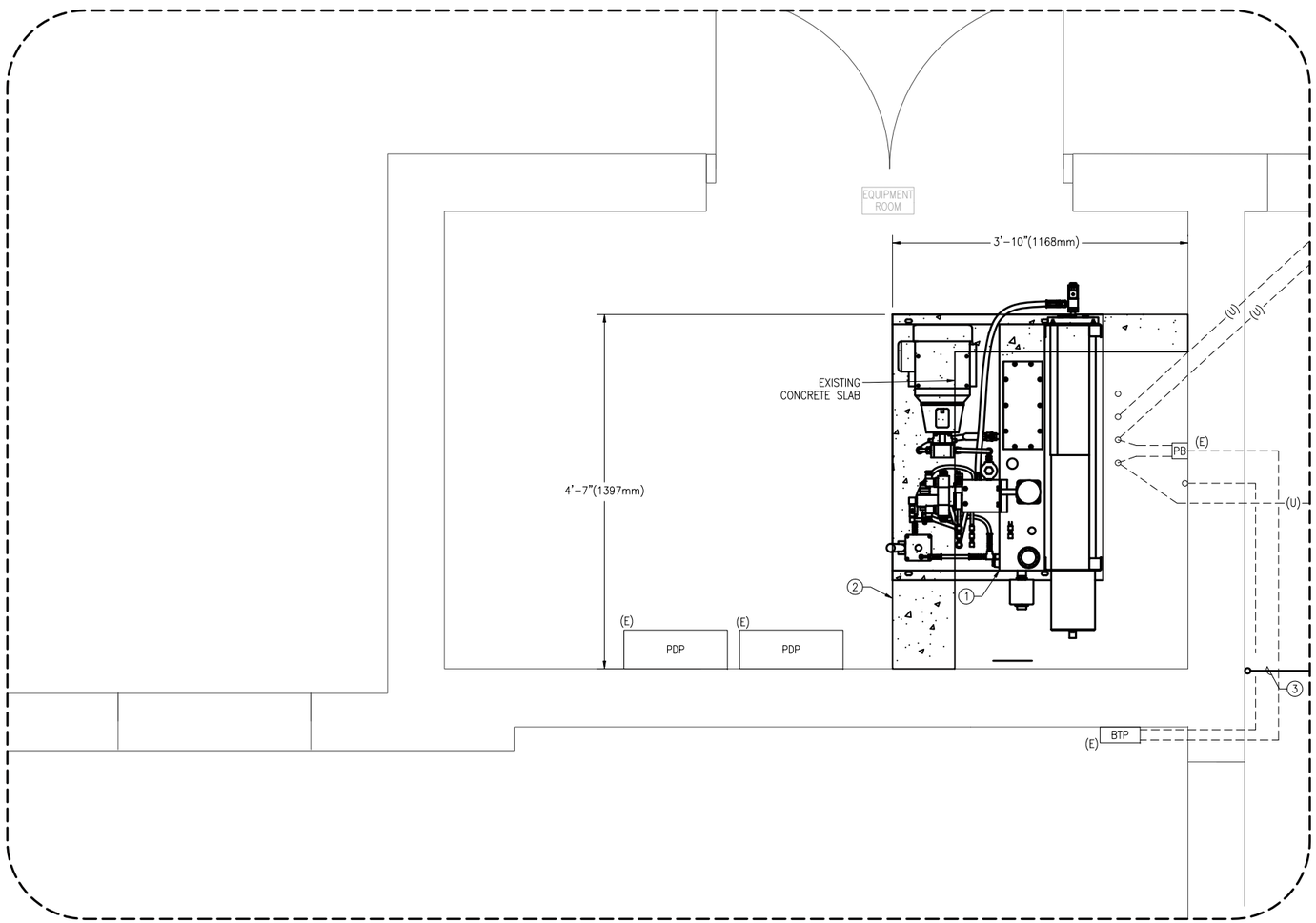
DATE: 03/03/15

DRAWING NUMBER: SY2.04

SHEET 12 OF 16

CLASSIFICATION

REV.



1 SY2.04 SY2.05 PARTIAL SITE PLAN BUILDING "S" – EQUIPMENT ROOM

SCALE: 1:10

DRAWING NOTES

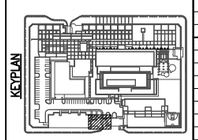
1. NO CLIMBABLE FEATURES SHALL BE INSTALLED WITHIN THE SALLY PORT.
2. ALL CONDUIT IS 1" PVC UNLESS NOTED OTHERWISE.
3. SOME EQUIPMENT AND INFRASTRUCTURE IS SHOWN FOR REFERENCE ONLY.
4. ALL CONDUIT SHALL BE INSTALLED AS COMPLETE ASSEMBLIES. DRAG LINES SHALL BE PULLED IN ALL ASSOCIATED CONDUIT FOR FUTURE WIRE PULLS.
5. WHERE WHERE PVC EXITS FROM BELOW GROUND, TRANSITION TO RGS 5' BACK FROM WHERE THE PVC EXITS THE GROUND.
6. CONTRACTOR SHALL ASSIST PME TECHS WHERE REQUIRED.

DRAWING KEY NOTES

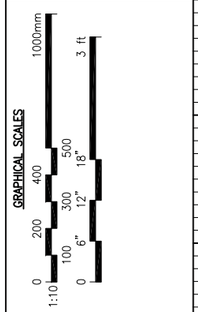
1. INSTALL NEW DELTA HYDRAULIC PUMP UNIT. REFER TO DELTA HPU MANUAL.
2. EXTEND EXISTING CONCRETE PAD TO ACCOMODATE NEW DELTA HPU FRAME.
3. INSTALL NEW CONDUIT FOR PHOT EYES.

VBS LOCAL CONTRACTOR
DRAWING PACKAGE
for
PHNOM PENH, CAMBODIA

KEYPLAN



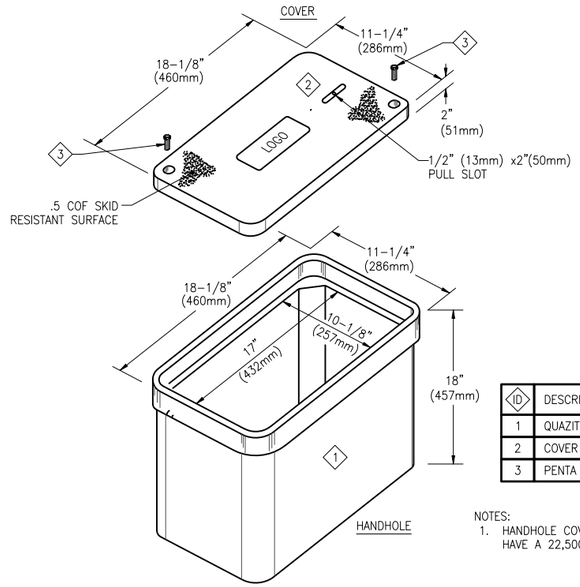
GRAPHICAL SCALES



DRAWING TITLE
PARTIAL SITE PLAN BUILDING "S"
EQUIPMENT ROOM
NEW WORK

PHASE
☐ 30%
☐ 90%
■ 100%
☐ AS-BUILT

CAD FILE NAME: PHED205.dwg
DRAWING SCALE: AS NOTED
PROJECT NUMBER: PHNOM PENH-PME-11-14-11
DRAWN BY: JB
DESIGNED BY: RS
DATE: 03/03/15
DRAWING NUMBER: SY2.05
SHEET 13 OF 16
CLASSIFICATION
REV.

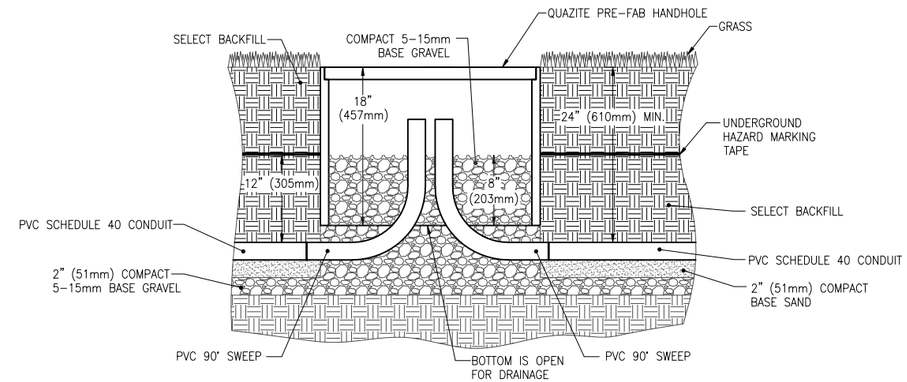


ID	DESCRIPTION	QTY
1	QUAZITE HANDHOLE P/N PG1118BA18	1
2	COVER (FOR ROADWAY APPLICATIONS)	1
3	PENTA HEAD BOLTS	2

NOTES:
1. HANDHOLE COVER SHOULD BE LOCKABLE AND A TIER 22 AND HAVE A 22,500 DESIGN LOAD AND 33,750 TEST LOAD.

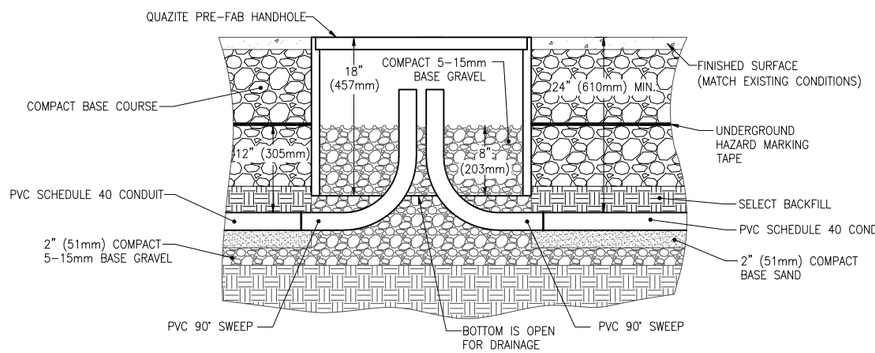
1 SY5.01 SY5.01 SMALL QUAZITE PRE-FAB HANDHOLE DETAIL

SCALE: NONE



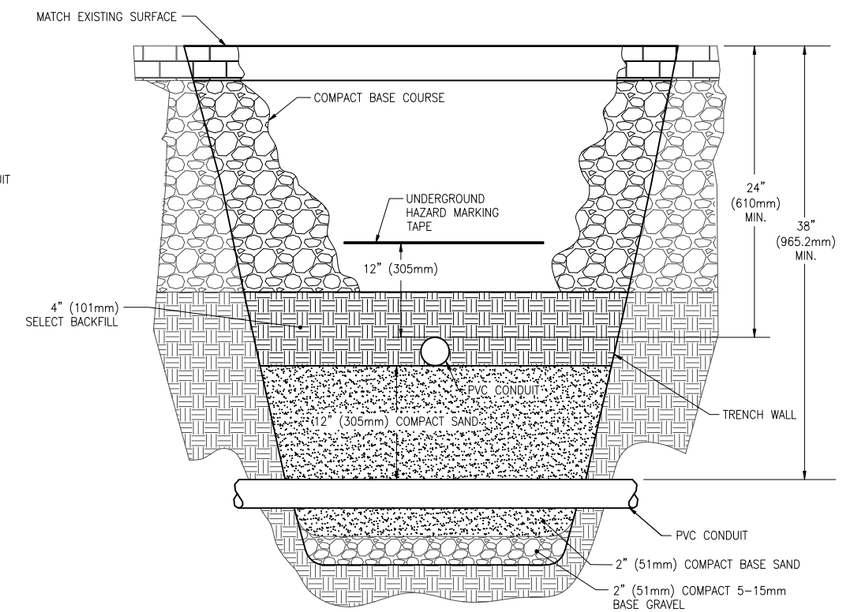
2 SY5.01 SY5.01 HANDHOLE AND CONDUIT INSTALLATION DETAIL – GRASS AREA

SCALE: NONE



3 SY5.01 SY5.01 HANDHOLE AND CONDUIT INSTALLATION DETAIL – FINISHED ROAD/SIDEWALK

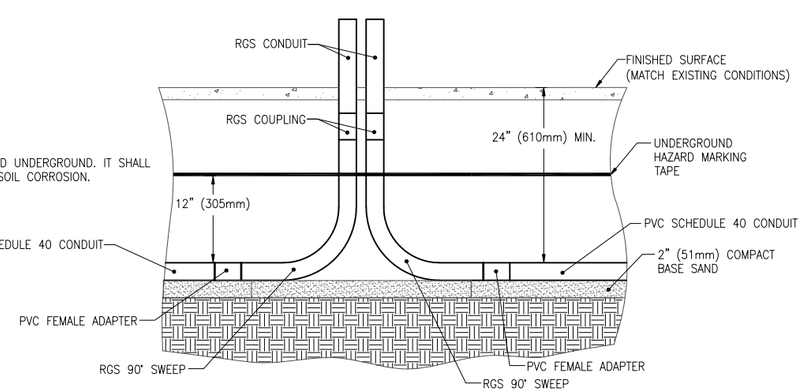
SCALE: NONE



NOTES:
1. MATCH COMPACT BASE COURSE TYPE AND THICKNESS TO EXISTING.
2. THE BOTTOM MOST CONDUIT MAY SMOOTHLY TRANSITION UP TO A DEPTH OF 24" (610mm) BELOW GRADE AFTER A DISTANCE 24" (610mm) FROM THE INTERSECTION POINT.

5 SY5.01 SY5.01 INTERSECTING CONDUIT TRENCHING DETAIL

SCALE: NONE



NOTES:
1. WHERE RGS IS INSTALLED UNDERGROUND. IT SHALL BE PROTECTED FROM SOIL CORROSION.

4 SY5.01 SY5.01 UNDERGROUND PVC CONDUIT TURN-UP DETAIL

SCALE: NONE

VBS LOCAL CONTRACTOR DRAWING PACKAGE for PHNOM PENH, CAMBODIA

DRAWING TITLE: DETAILS

PHASE: ☐ 30% ☐ 90% ■ 100% ☐ AS-BUILT

CAD FILE NAME: PHED501.dwg

DRAWING SCALE: NONE

PROJECT NUMBER: PHNOM PENH-PME-11-14-11

DRAWN BY: JB

DESIGNED BY: RS

DATE: 03/03/15

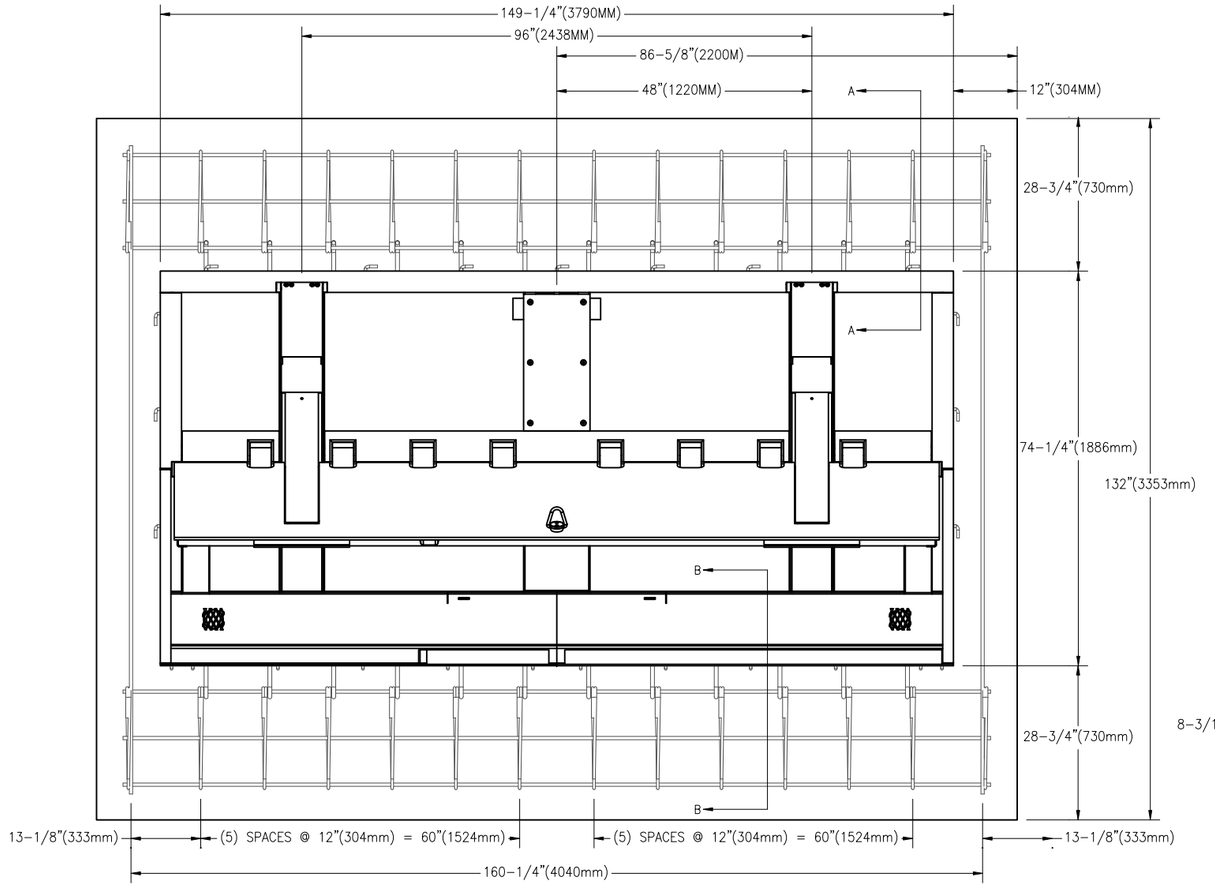
DRAWING NUMBER: SY5.01

SHEET 14 OF 16

CLASSIFICATION

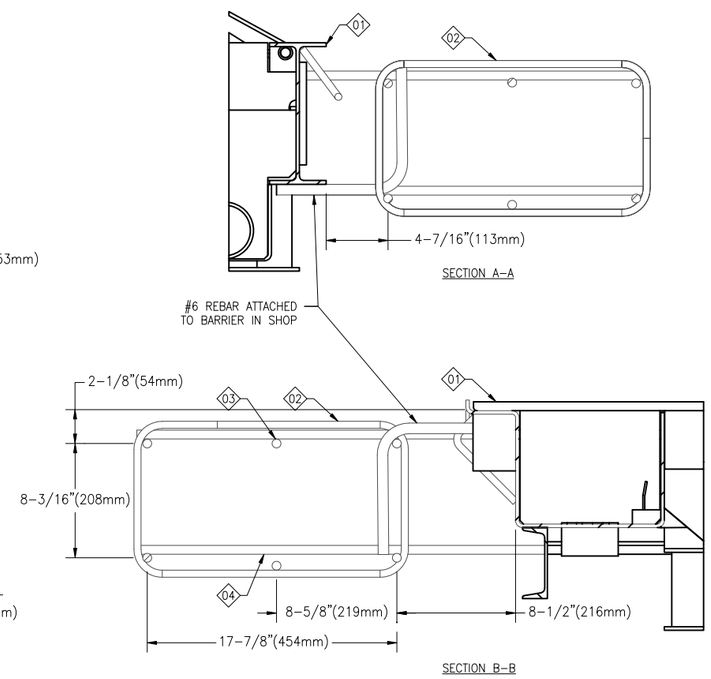
REV.

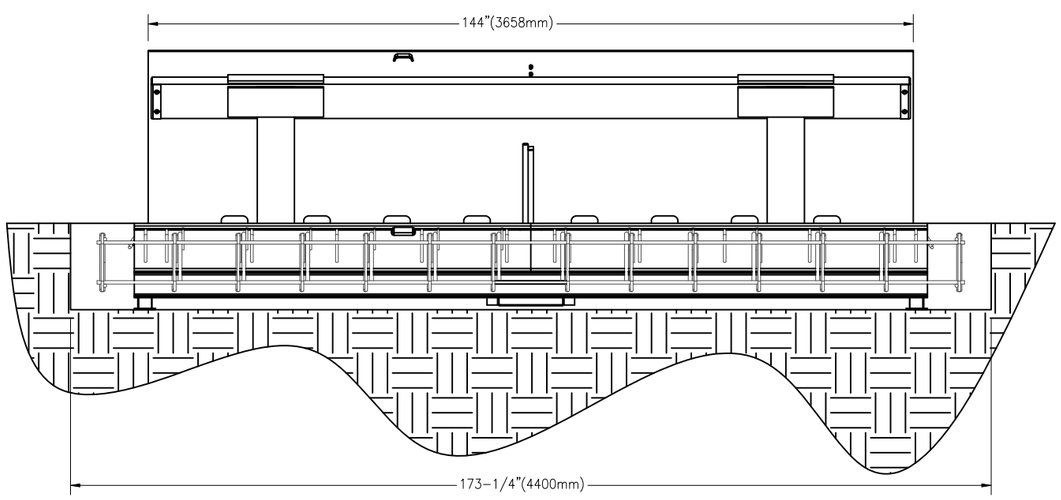
18	QTY.	DISCRIPTION	MATERIAL	PART #
01	1	MODEL IIID-12FT	–	–
02	28	REBAR, 1/2"(13mm)DIA x68"(1727mm) LG	GRADE 60	2011-1100-7134
03	12	REBAR, 5/8"(16mm)DIA x 163"(4140mm) LG	GRADE 60	2011-1100-9134
04	4	REBAR, 5/8"(16mm)DIA x 122"(3098mm) LG	GRADE 60	2011-1100-9134



1 SY5.02 SY5.02 NASATKA IIID VEHICLE BARRIER DETAIL – TOP VIEW – REFERENCE ONLY

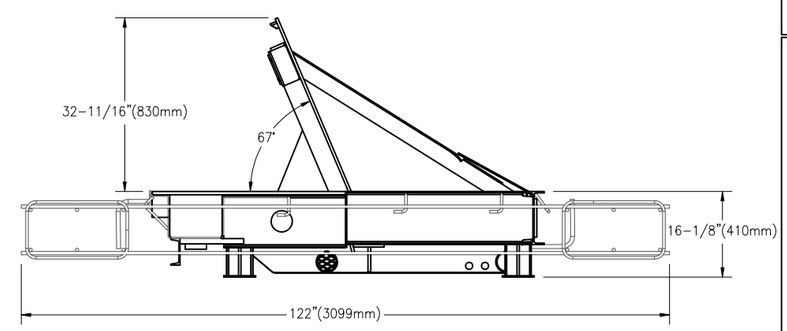
SCALE: NONE





2 SY5.02 SY5.02 NASATKA IIID VEHICLE BARRIER DETAIL – FRONT VIEW – REFERENCE ONLY

SCALE: NONE



3 SY5.02 SY5.02 NASATKA IIID VEHICLE BARRIER DETAIL – SIDE VIEW REFERENCE ONLY

SCALE: NONE

VBS LOCAL CONTRACTOR
DRAWING PACKAGE
for
PHNOM PENH, CAMBODIA

DRAWING TITLE: DETAILS

PHASE: ☐ 30% ☐ 90% ■ 100% ☐ AS-BUILT

CAD FILE NAME: PHED502.dwg

DRAWING SCALE: NONE

PROJECT NUMBER: PHNOM PENH-PME-11-14-11

DRAWN BY: JB

DESIGNED BY: RS

DATE: 03/03/15

DRAWING NUMBER: SY5.02

SHEET 15 OF 16

CLASSIFICATION

REV.

PULL BOX SCHEDULE

PULL BOX TYPE	DS CAT. NO.	SIZE (LxWxH mm)	SIZE (LxWxH in)	MATERIAL	KNOCKOUT SIZE	HINGE	NEMA RATING **
PB A / A / A	ELE049	100x100x53	4"x4"x2-1/8"	METAL	1"	NO	1
PB B / B / B	ELE044	100x100x53	4"x4"x2-1/8"	METAL	3/4"	NO	1
PB C / C / C	CON093	150x150x100	6"x6"x4"	METAL	1/2", 3/4", 1"	NO	1
PB D / D / D	ENC205	150x150x100	6"x6"x4"	METAL	N/A	NO	1
* PB E / E / E	–	EXISTING	–	–	–	–	–
PB F / F / F	ENC240	150x150x100	6"x6"x4"	METAL	1/2", 3/4", 1"	NO	3
PB G / G / G	CON095	200x200x100	8"x8"x4"	METAL	1/2", 3/4", 1"	NO	1
PB H / H / H	ENC206	200x200x100	8"x8"x4"	METAL	N/A	NO	1
PB J / J / J	A8R84	200x200x100	8"x8"x4"	METAL	1/2", 3/4", 1"	NO	3
PB K / K / K	CON094	250x250x150	10"x10"x6"	METAL	1/2", 3/4", 1", 1-1/4"	NO	1
PB L / L / L	ENC207	250x250x150	10"x10"x6"	METAL	N/A	NO	1
PB M / M / M	CON096	300x300x100	12"x12"x4"	METAL	1/2", 3/4", 1", 1-1/4"	NO	1
PB N / N / N	ENC208	300x300x100	12"x12"x4"	METAL	N/A	NO	1
PB P / P / P	ENC236	300x300x100	12"x12"x4"	METAL	1/2", 3/4", 1", 1-1/4"	NO	3
PB Q / Q / Q	ENC231	300x250x150	12"x10"x6"	METAL	N/A	YES	1
PB R / R / R	ENC232	350x300x150	14"x12"x6"	METAL	N/A	YES	1
PB S / S / S	CON097	400x300x100	16"x12"x4"	METAL	1/2", 3/4", 1", 1-1/4"	NO	1
PB T / T / T	CON098	450x450x100	18"x18"x4"	METAL	1/2", 3/4", 1", 1-1/4"	NO	1
PB U / U / U	ENC209	450x450x100	18"x18"x4"	METAL	N/A	NO	1
PB V / V / V	–	119x119x53	4-11/16-SQ:	METAL	3/4", 1"	NO	1
PB W / W / W	–	610x610x152	24"x24"X6"	METAL	N/A	NO	1
PB X / X / X	–	406x406x152	16"x16"x6"	METAL	N/A	NO	1
PB Y / Y / Y	***	–	–	–	–	–	–

NOTES:

A. ALL PULL BOXES SHALL BE PROVIDED WITH SCREW COVERS.

B. SOME PULL BOXES WITH SIMILAR DIMENSIONS HAVE DIFFERENT SIZE KNOCKOUTS, CHECK CATALOG SPECIFICATIONS.

C. DOUBLE LETTER PULL BOX TYPES ENDING WITH AN "X" DESIGNATION WILL BE UPGRADED TO PDS ("AX", "BX", "CX", ETC.)

* EXISTING IN THE SIZE COLUMN INDICATES THE PULL BOX IS EXISTING INFRASTRUCTURE AND THAT SIZE WILL BE VERIFIED IN THE FIELD (V.I.F.).

** NEMA 1 RATING IS USED FOR INTERIOR CONDITIONS, NEMA 3 RATING IS FOR EXTERIOR CONDITIONS.

*** FOR USE OF NON-STANDARD PULL BOXES. SIZE TO BE DETERMINED BY DESIGN TEAM-POST SPECIFIC.

LOCKABLE PULL BOX SCHEDULE

PULL BOX TYPE	PULL BOX CAT. NO.	SIZE (LxWxH mm)	SIZE (LxWxH in)	MATERIAL	KNOCKOUT SIZE	HINGE	NEMA RATING **
PB AA / AA / AA	A4R44NK	102x102x102	4"x4"x4"	METAL	N/A	NO	1
PB BB / BB / BB	A6R64NK	152x152x102	6"x6"x4"	METAL	N/A	NO	1
PB CC / CC / CC	PME207	152x152x152	6"x6"x6"	METAL	N/A	NO	3
PB DD / DD / DD	ENC229	203x203x102	8"x8"x4"	METAL	N/A	NO	3
PB FF / FF / FF	ENC283	254x254x152	10"x10"x6"	METAL	N/A	NO	3
PB GG / GG / GG	75505K13	305x254x152	12"x10"x6"	METAL	N/A	NO	4X
PB HH / HH / HH	A12R126NK	305x305x152	12"x12"x6"	METAL	N/A	NO	1
PB JJ / JJ / JJ	A18R184NK	457x457x102	18"x18"x4"	METAL	N/A	NO	3
PB KK / KK / KK	***	406x406x152	16"x16"x6"	METAL	N/A	YES	1
PB LL / LL / LL	***	610x610x152	24"x24"x6"	METAL	N/A	YES	1
PB MM / MM / MM	***	–	–	–	–	–	–
PB NN / NN / NN	***	–	–	–	–	–	–

NOTES:

** NEMA 1 RATING IS USED FOR INTERIOR CONDITIONS, NEMA 3 RATING IS FOR EXTERIOR CONDITIONS.

*** FOR USE OF NON-STANDARD PULL BOXES. SIZE TO BE DETERMINED BY DESIGN TEAM-POST SPECIFIC.

VBS LOCAL CONTRACTOR
DRAWING PACKAGE
for
PHNOM PENH, CAMBODIA

DRAWING TITLE
SCHEDULES

PHASE
☐ 30%
☐ 90%
■ 100%
☐ AS-BUILT

CAD FILE NAME
PHED601.dwg

DRAWING SCALE
NONE

PROJECT NUMBER
PHNOM PENH-PME-11-14-11

DRAWN BY
JB

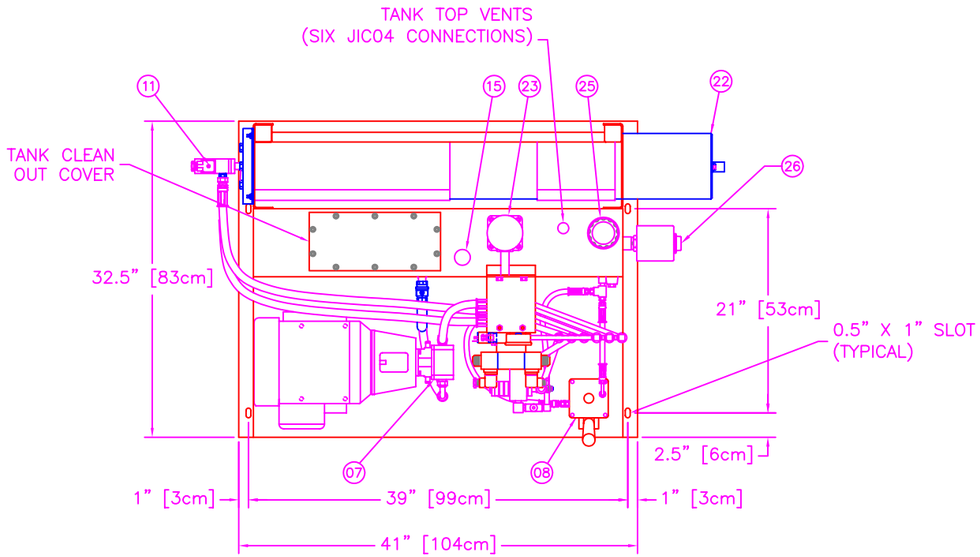
DESIGNED BY
RS

DATE
03/03/15

DRAWING NUMBER
SY6.01
SHEET 16 OF 16

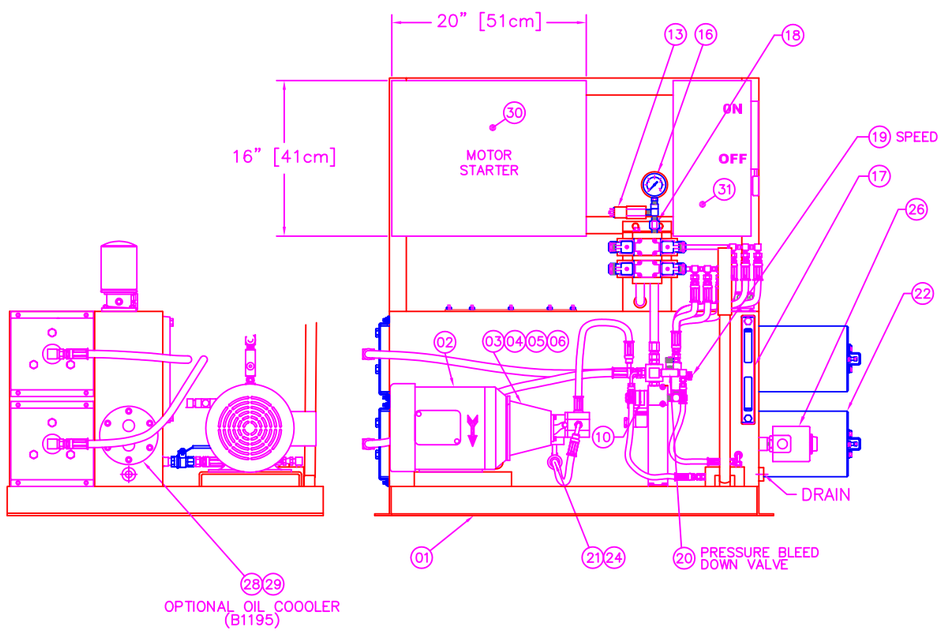
CLASSIFICATION

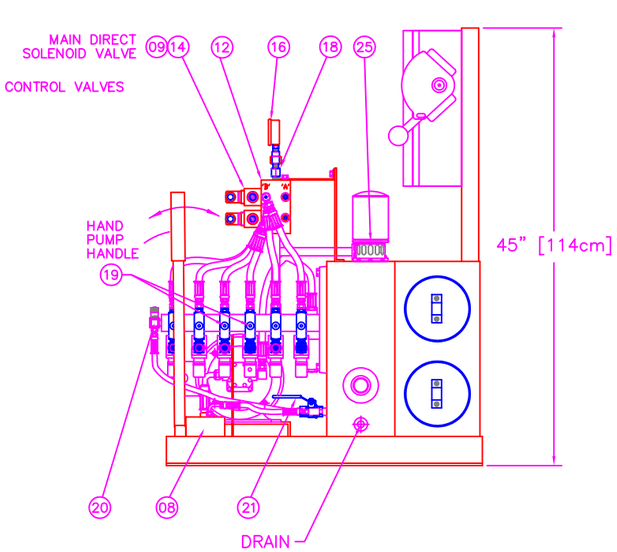
REV.

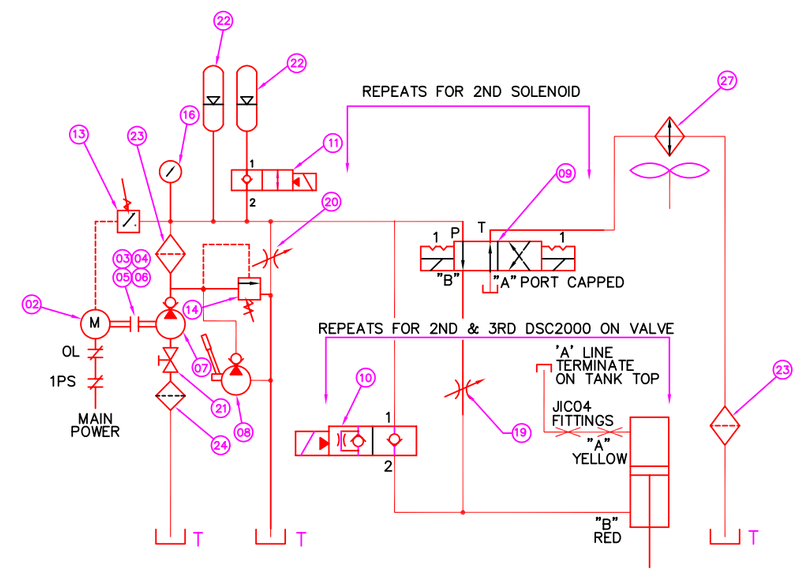


	ITEM	REQ'D	MATERIAL DESCRIPTION	STK. NO.
	01	1	HPU, TANK AND FRAME	8050–00
	02	1	MOTOR, 'H' HP @ 'V' (SPECIFIED VOLTAGE)	2464–'M'
	03	1	PUMP/MOTOR ADAPTER, 8.5" AK TO SAE 4 BOLT,	2464–32
	04	1	PUMP HALF COUPLING, 1/2"	2464–53
	05	1	MOTOR HALF COUPLING, 1 1/8"	2464–52
	06	1	COUPLING SPIDER,	2464–61
	07	1	HYD PUMP, 0.258 CUBIC INCH/REV	2471–17
OPTIONAL	08	0 or 1	HANDPUMP, B1325 OPTION	2471–21
	09	2	VALVE,SOLENOID, D03, 24 VDC, SPRING DETENTED	2467–01
	10	6	VALVE, EFO, 24 VDC	2467–31
OPTIONAL	11	0 or 1	VALVE, AUXILIARY EFO, 24 VDC, B1020 OPTION	2467–33
	12	1	MANIFOLD, ISO 03, DUAL STATION	2467–72
	13	1	PRESSURE SWITCH, OFF @ 1900 PSIG/REST 1400 PSIG,	2465–01
	14	1	PRESSURE RELIEF VALVE, SET 2200 PSIG,	2465–05
	15	1	LEVEL SWITCH,	2465–11
	16	1	PRESSURE GUAGE, 0–3000 PSIG,	2465–21
	17	1	LEVEL GAUGE, 10",	2465–22
	18	1	GAUGE SNUBBER, 1/4" NPT SIZE,	2465–23
	19	6	VALVE, NEEDLE, 3/8" NPT,	2466–12
	20	1	VALVE, NEEDLE, 1/4" NPT,	2466–11
	21	1	VALVE, BALL, 1/2" NPT, BRONZE	2466–33B
	22	2	ACCUMULATOR, PISTON TYPE, 5 GALLON,	2469–94
	23	1	FILTER ELEMENT/HOUSING,	2470–02
	24	1	SUCTION STRAINER,	2470–41
	25	1	FILLER BREATHER,	2470–43
OPTIONAL	26	0 or 1	TANK HEATER, B1190 or B1191 OPTION	2465–xx
OPTIONAL	27	0 or 1	OIL RESERVOIR COOLER (AIR), B1196 OPTION	2465–xx
OPTIONAL	28	0 or 1	OIL COOLER, WATER COOLED, B1195 OPTION	2465–52
OPTIONAL	29	0 or 1	OIL COOLER WATER THERMOSTAT, B1195 OPTION	2465–53
	30	1	MOTOR STARTER, CONTROL CIRCUIT	906xx
OPTIONAL	31	0 or 1	DISCONNECT SWITCH, B1260 OPTION	2531–110

TOTAL WEIGHT = 792 POUNDS [359 KG]







TYPICAL HYDRAULIC FLOW SCHEMATIC

BARRIERS OPERATE SINGLE ACTING WITH ROD END VENTS

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UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES

TOLERANCES
.X = ±.060/FT
.XX = ±.030/FT
.XXX = ±.010/FT
ANGLES = ±.5°

SURFACE FINISH
125

REMOVE ALL BURRS & BREAK SHARP EDGES .02 MAX

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DELTA HYDRAULIC POWER UNIT
GENERAL ARRANGEMENT

DRWN BY	DATE	DRAWING NO.	REV.
J. FRIEND	09/15/05	90535–6	–
CHKD BY	DATE		
APPVD BY	DATE	SCALE: 1:8 (D SIZE)	SHEET SHEET 1 OF 1