

SENSITIVE BUT UNCLASSIFIED

U.S. EMBASSY, OUAGADOUGOU, BURKINA FASO
BARRIER SYSTEM UPGRADE
90% DESIGN SUBMISSION
11/28/12



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**BARRIER SYSTEM
UPGRADE
for
OUAGADOUGOU, BURKINA FASO**

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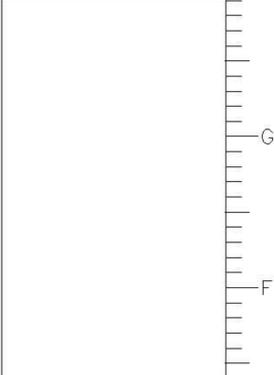
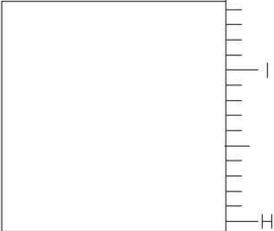
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ABBREVIATIONS

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

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SYMBOLS

-----	SIGNAL CONDUIT TO REMAIN
_____	SIGNAL CONDUIT (NEW OR DEMOLITION)
-x-x-x-x-	POWER CONDUIT TO REMAIN
-x-x-x-x-	POWER CONDUIT (NEW OR DEMOLITION)
-----	WATER PIPE (EXISTING)
---(U)---	UNDER FLOOR OR GROUND CONDUIT TO REMAIN
---(U)---	UNDER FLOOR OF GROUND CONDUIT (NEW OR DEMOLITION)
---o---	CONDUIT UP
---o---	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

NOTE:

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



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SYMBOLS AND ABBREVIATIONS

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SCOPE OF WORK (SOW)

STATEMENT OF WORK
SUBMITTED BY: JOSEPH BARNHILL
DEPARTMENT OF STATE

MAIN GATE, SERVICE CAC OUAGADOUGOU JOBS # 7984A/7984B

THE GENERAL SCOPE OF THE PROJECT WILL BE AS FOLLOWS: PG. 1
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2.0 BACKGROUND... PG. 2
3.0 REQUIREMENTS... PG. 2
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3.2 EXCAVATION COST ESTIMATION. (BARRIER SYSTEMS) PG. 4
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STATEMENT OF WORK
SUBMITTED BY: JOSEPH BARNHILL
DEPARTMENT OF STATE

MAIN GATE, SERVICE CAC OUAGADOUGOU JOBS # 7984A/7984B

1.0 OBJECTIVE...
1.1 REMOVE EXISTING NORSHIELD NOR-82 (2EA) VEHICLE ARREST SYSTEMS. REPLACE WITH A NEW DELTA SCIENTIFIC MODEL DSC207S (2EA) VEHICLE ARREST SYSTEMS.
2.0 BACKGROUND...
2.1 POST UPGRADES HAVE WARRANTED REPLACEMENT FOR A DS APPROVED VEHICLE ARREST SYSTEMS.
3.0 REQUIREMENTS...
3.1 REMOVAL COST ESTIMATION. (BARRIER SYSTEMS)
3.1.1 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF NORSHIELD NOR-82 (2EA) VEHICLE ARREST SYSTEMS LOCATED AT MAIN AND SERVICE CAC GATES. JOBS # 7984A/7984B
3.1.2 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF NORSHIELD NOR-82 (2EA) VEHICLE ARREST BARRIER LOCATED AT MAIN AND SERVICE GATES. JOBS # 7984A/7984B
3.1.3 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST AS REQUIRED FOR THE CONCRETE FOUNDATION REMOVAL AND DISPOSAL OF ALL WASTE CONCRETE, BARRIER ROAD PLATE(S)/DROP-ARM(S), REINFORCING STEEL REBAR(S), PVC CONDUIT PIPING, ELECTRICAL WIRING, AND WASTE MATERIALS ASSOCIATED WITH THE NORSHIELD NOR-82 (2EA) VEHICLE ARREST SYSTEMS. JOBS # 7984A/7984B
3.1.4 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF ALL HYDRAULIC LINES, ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND FROM THE NORSHIELD NOR-82 (2EA) VEHICLE ARREST BARRIER AND BACK TO THE HYDRAULIC PUMPING UNITS. JOBS # 7984A/7984B
3.1.5 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF THE HYDRAULIC PUMPING UNITS, ASSOCIATED CONCRETE FOUNDATION, AND ALL HYDRAULIC LINES, ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND AND BACK TO THE NORSHIELD NOR-82 (2EA) VEHICLE ARREST BARRIER. JOBS # 7984A/7984B
3.1.6 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF THE ENCLOSURE THAT HOUSES THE HYDRAULIC PUMPING UNITS. JOBS # 7984A/7984B

3.1.7 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF THE VEHICLE STOP/GO SIGNAL LIGHT ASSEMBLIES, ASSOCIATED CONCRETE FOUNDATION, ALL ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND AND BACK TO THE CONTROL CIRCUITS FOR THE NORSHIELD NOR-82 (2EA) VEHICLE ARREST SYSTEMS. JOBS # 7984A/7984B
3.1.8 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF THE VEHICLE DETECTOR CIRCUITS, ASSOCIATED CONCRETE FOUNDATION, ALL ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND AND BACK TO THE CONTROL CIRCUITS FOR THE NORSHIELD NOR-82 (2EA) VEHICLE ARREST SYSTEMS. JOBS # 7984A/7984B
3.1.9 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF THE GATE TRACK AND ASSOCIATED CONCRETE FOUNDATION FOR THE INSIDE GATE LOCATED AT THE MAIN COMPOUND ACCESS CONTROL (CAC). JOBS # 7984A/7984B
3.1.10 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF THE GATE LEAF FOR THE INSIDE GATE LOCATED AT THE MAIN COMPOUND ACCESS CONTROL (CAC). THE GATE LEAF SHALL BE STORED ON SITE FOR REINSTALLATION AFTER GATE TRACK REINSTALLATION. JOBS # 7984A/7984B
3.1.11 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF THE VEHICLE BARRIER DRAINAGE WATER SUMP PUMP SYSTEMS (SEE 3.2.16) INCLUDING ALL ASSOCIATED ELECTRICAL WIRING AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND FROM THE NORSHIELD NOR-82 (2EA) VEHICLE ARREST BARRIER AND BACK TO THE SUMP PUMP UNITS. JOBS # 7984A/7984B
3.1.12 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF EXISTING WATER DRAINAGE PIPING AS REQUIRED FOR THE REROUTING OF FRESH WATER DRAINAGE THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
3.1.13 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF EXISTING FRESH WATER PIPING AS REQUIRED FOR THE REROUTING OF FRESH WATER AND PIPING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
3.1.14 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF EXISTING GAS PIPING (SEE 3.1.15) AS REQUIRED FOR THE REROUTING OF GAS AND PIPING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
3.1.15 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.21) FOR ANY GAS LINE MUST BE SUBMITTED TO THE LOCAL OIL AND GAS COMMISSION BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL OIL AND GAS COMMISSION. JOBS # 7984A/7984B
3.1.16 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE REMOVAL OF ELECTRICAL LINES OR WIRING (SEE 3.1.17) AS REQUIRED FOR THE REROUTING OF ELECTRICAL LINES OR WIRING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
3.1.17 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.22) FOR ANY ELECTRICAL LINE MUST BE SUBMITTED TO THE LOCAL ELECTRIC COOPERATIVE BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL ELECTRIC COOPERATIVE. JOBS # 7984A/7984B
3.1.18 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR DAMAGE RESTORATION IMPROVEMENTS AS ASSOCIATED WITH THE VEHICLE ARREST SYSTEMS REMOVAL PROCESS. JOBS # 7984A/7984B
3.1.19 THE CONTRACTOR SHALL IDENTIFY AND ADDRESS ANY ANOMALIES OF CONCERN. JOBS # 7984A/7984B
3.2 EXCAVATION COST ESTIMATION. (BARRIER SYSTEMS)
3.2.1 THE CONTRACTOR SHALL CONDUCT AN EXCAVATION ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF DELTA MODEL DSC207S (2EA) VEHICLE ARREST SYSTEMS LOCATED AT MAIN AND SERVICE CAC GATES. JOBS # 7984A/7984B
3.2.2 THE CONTRACTOR SHALL CONDUCT AN EXCAVATION ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF DELTA MODEL DSC207S (2EA) VEHICLE ARREST BARRIER LOCATED AT MAIN AND SERVICE CAC GATES. JOBS # 7984A/7984B
3.2.3 THE CONTRACTOR SHALL CONDUCT AN EXCAVATION ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF ALL HYDRAULIC LINES, ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS REQUIRED UNDERGROUND CONNECTING FROM THE DELTA MODEL DSC207S (2EA) VEHICLE ARREST BARRIER AND BACK TO THE HYDRAULIC PUMPING UNITS. JOBS # 7984A/7984B
3.2.4 THE CONTRACTOR SHALL CONDUCT AN EXCAVATION ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF THE HYDRAULIC PUMPING UNITS. JOBS # 7984A/7984B

3.2.5 THE CONTRACTOR SHALL CONDUCT AN EXCAVATION ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF ALL HYDRAULIC LINES, ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS REQUIRED UNDERGROUND CONNECTING FROM THE HYDRAULIC PUMPING UNITS AND BACK TO THE DSC207S/VEHICLE ARREST BARRIER. JOBS # 7984A/7984B
3.2.6 THE CONTRACTOR SHALL CONDUCT AN EXCAVATION ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF THE ENCLOSURE THAT HOUSES THE HYDRAULIC PUMPING UNITS. JOBS # 7984A/7984B
3.2.7 THE CONTRACTOR SHALL CONDUCT AN EXCAVATION ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF THE VEHICLE STOP/GO SIGNAL LIGHT ASSEMBLIES, ASSOCIATED CONCRETE FOUNDATION, ALL ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND AND BACK TO THE CONTROL CIRCUITS FOR THE DELTA MODEL DSC207S (2EA) VEHICLE ARREST SYSTEMS. JOBS # 7984A/7984B
3.2.8 THE CONTRACTOR SHALL CONDUCT AN EXCAVATION ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF THE VEHICLE DETECTOR CIRCUITS, ASSOCIATED CONCRETE FOUNDATION, ALL ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND AND BACK TO THE CONTROL CIRCUITS FOR THE DELTA MODEL DSC207S (2EA) VEHICLE ARREST SYSTEMS. JOBS # 7984A/7984B
3.2.9 THE CONTRACTOR SHALL CONDUCT AN EXCAVATION ESTIMATION OF COST FOR THE INSTALLATION OF THE GATE TRACK FOR THE INSIDE GATE LOCATED AT THE MAIN COMPOUND ACCESS CONTROL (CAC). JOBS # 7984A/7984B
3.2.10 THE CONTRACTOR SHALL CONDUCT AN EXCAVATION ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF THE VEHICLE BARRIER DRAINAGE WATER SUMP PUMP SYSTEMS TO INCLUDE THE APPROPRIATE DISPOSAL OF WATER TO THE NEAREST WATER DRAINAGE OR SEWER INCLUDING ALL ASSOCIATED ELECTRICAL WIRING AND PVC CONDUIT PIPING AS REQUIRED UNDERGROUND AND CONNECTING FROM THE DELTA MODEL DSC207S (2EA) VEHICLE ARREST BARRIER AND BACK TO THE SUMP PUMP AND WATER DRAINAGE OR SEWER SYSTEMS. JOBS # 7984A/7984B
3.2.11 THE CONTRACTOR SHALL CONDUCT AN EXCAVATION ESTIMATION OF COST FOR THE INSTALLATION OF WATER DRAINAGE PIPING AS REQUIRED FOR REROUTING THE FLOW OF DRAINAGE WATER THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
3.2.12 THE CONTRACTOR SHALL CONDUCT AN EXCAVATION ESTIMATION OF COST FOR THE INSTALLATION OF FRESH WATER PIPING AS REQUIRED FOR THE REROUTING OF FRESH WATER AND PIPING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
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3.2.15 THE CONTRACTOR SHALL CONDUCT AN EXCAVATION ESTIMATION OF COST FOR THE INSTALLATION OF ELECTRICAL LINES (SEE 3.2.16) OR WIRING AS REQUIRED FOR THE REROUTING OF ELECTRICAL LINES OR WIRING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
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3.2.18 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR DAMAGE RESTORATION IMPROVEMENTS AS ASSOCIATED WITH THE VEHICLE ARREST SYSTEMS EXCAVATION PROCESS. JOBS # 7984A/7984B
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3.3 INSTALLATION COST ESTIMATION. (BARRIER SYSTEMS)
3.3.1 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION DELTA MODEL DSC207S (2EA) VEHICLE ARREST SYSTEMS LOCATED AT MAIN GATE AND SERVICE CAC PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
3.3.2 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION DELTA MODEL DSC207S (2EA) VEHICLE ARREST BARRIER LOCATED AT MAIN GATE AND SERVICE CAC PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B

3.3.3 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST AS REQUIRED FOR THE DELTA MODEL DSC207S (2EA) INSTALLATION TO INCLUDE THE CONCRETE FOUNDATION, REINFORCING STEEL REBAR, AND AGGREGATE MATERIALS, AS REQUIRED PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
3.3.4 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF ALL NEW HYDRAULIC LINES, ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS REQUIRED UNDERGROUND AND CONNECTING FROM THE DELTA MODEL DSC207S (2EA) VEHICLE ARREST BARRIER AND BACK TO THE HYDRAULIC PUMPING UNITS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
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3.3.7 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF THE ENCLOSURE THAT HOUSES THE HYDRAULIC PUMPING UNITS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
3.3.8 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF THE VEHICLE STOP/GO SIGNAL LIGHT ASSEMBLIES, ASSOCIATED CONCRETE FOUNDATION, ALL ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND AND BACK TO THE CONTROL CIRCUITS FOR THE DELTA MODEL DSC207S (2EA) VEHICLE ARREST SYSTEMS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
3.3.9 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF THE VEHICLE DETECTOR CIRCUITS, ASSOCIATED CONCRETE FOUNDATION, ALL ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND AND BACK TO THE CONTROL CIRCUITS FOR THE DELTA MODEL DSC207S (2EA) VEHICLE ARREST SYSTEMS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
3.3.10 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF THE GATE TRACK AND ASSOCIATED CONCRETE FOUNDATION FOR THE INSIDE GATES LOCATED AT THE MAIN AND SERVICE COMPOUND ACCESS CONTROL (CAC). JOBS # 7984A/7984B
3.3.11 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST AS REQUIRED FOR THE REINSTALLATION OF THE GATE LEAF FOR THE INSIDE GATES LOCATED AT THE MAIN AND SERVICE COMPOUND ACCESS CONTROL (CAC). JOBS # 7984A/7984B
3.3.12 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST AS REQUIRED FOR THE INSTALLATION OF THE VEHICLE BARRIER DRAINAGE WATER SUMP PUMP SYSTEMS TO INCLUDE THE APPROPRIATE DISPOSAL OF WATER TO THE NEAREST WATER DRAINAGE OR SEWER INCLUDING ALL ASSOCIATED ELECTRICAL WIRING AND PVC CONDUIT PIPING AS REQUIRED UNDERGROUND AND CONNECTING FROM THE DELTA MODEL DSC207S (2EA) VEHICLE ARREST BARRIERS AND BACK TO THE SUMP PUMP AND WATER DRAINAGE OR SEWER SYSTEMS. JOBS # 7984A/7984B
3.3.13 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE INSTALLATION OF THE WATER DRAINAGE PIPING AS REQUIRED FOR REROUTING THE FLOW OF DRAINAGE WATER THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
3.3.14 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE INSTALLATION OF FRESH WATER PIPING AS REQUIRED FOR THE REROUTING OF FRESH WATER AND PIPING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
3.3.15 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE INSTALLATION OF GAS PIPING (SEE 3.3.14) AS REQUIRED FOR THE REROUTING OF GAS AND PIPING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
3.3.16 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.21) FOR ANY GAS LINE MUST BE SUBMITTED TO THE LOCAL OIL AND GAS COMMISSION BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL OIL AND GAS COMMISSION. JOBS # 7984A/7984B
3.3.17 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE INSTALLATION OF ELECTRICAL LINES (SEE 3.3.16) OR WIRING AS REQUIRED FOR THE REROUTING OF ELECTRICAL LINES OR WIRING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
3.3.18 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.22) FOR ANY ELECTRICAL LINE MUST BE SUBMITTED TO THE LOCAL ELECTRIC COOPERATIVE BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL ELECTRIC COOPERATIVE. JOBS # 7984A/7984B

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BARRIER SYSTEM
UPGRADE
for
OUAGADOUGOU, BURKINA FASO

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SCOPE OF WORK (SOW)

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SCOPE OF WORK (SOW)

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- 3.3.19 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE INSTALLATION OF A SUMP PUMP WELL AS REQUIRED FOR THE INSTALLATION OF A SUMP PUMP SYSTEMS. JOBS # 7984A/7984B
- 3.3.20 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR DAMAGE RESTORATION IMPROVEMENTS AS ASSOCIATED WITH THE VEHICLE ARREST SYSTEMS INSTALLATION PROCESS. JOBS # 7984A/7984B
- 3.3.21 THE CONTRACTOR SHALL IDENTIFY AND ADDRESS ANY ANOMALIES OF CONCERN. JOBS # 7984A/7984B
- 3.4 ESTIMATION OF COST. (TRUCKING & EQUIPMENT)
- 3.4.1 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR CONCRETE MIXER TRUCKING AND DELIVERY OF CONCRETE AS REQUIRED FOR THE INSTALLATION DELTA MODEL DSC207S (2EA) VEHICLE ARREST SYSTEMS TO INCLUDE THE CONCRETE FOUNDATION FOR THE VEHICLE BARRIER(S), HYDRAULIC PUMPING UNITS AND ENCLOSURE, VEHICLE DETECTOR CIRCUITS, AND THE STOP/GO SIGNAL LIGHT ASSEMBLIES, AND WATER SUMP PUMP SYSTEMS AS REQUIRED FOR THE INSTALLATION PROJECT PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 3.4.2 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE TRUCKING AND DELIVERY OF REINFORCING STEEL REBAR(S) AS REQUIRED FOR THE INSTALLATION DELTA MODEL DSC207S (2EA) VEHICLE ARREST SYSTEMS TO INCLUDE THE CONCRETE FOUNDATION FOR THE VEHICLE BARRIER(S), HYDRAULIC PUMPING UNITS, VEHICLE STOP/GO SIGNAL LIGHT ASSEMBLIES, AND WATER SUMP PUMP SYSTEMS AS REQUIRED FOR THE INSTALLATION PROJECT PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 3.4.3 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR THE TRUCKING AND DELIVERY OF AGGREGATE MATERIALS AS REQUIRED FOR THE INSTALLATION DELTA MODEL DSC207S (2EA) VEHICLE ARREST SYSTEMS TO INCLUDE THE CONCRETE FOUNDATION FOR THE VEHICLE BARRIER(S), HYDRAULIC PUMPING UNITS, VEHICLE DETECTOR CIRCUITS, AND THE STOP/GO SIGNAL LIGHT ASSEMBLIES, AND WATER SUMP PUMP SYSTEMS AS REQUIRED FOR THE INSTALLATION PROJECT PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 3.4.4 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST AS REQUIRED FOR THE RENTAL AND/OR USE OF ALL HEAVY DUTY EQUIPMENT (I.E., FORKLIFT, FRONT LOADER, EXCAVATOR WITH HOE RAM AND BUCKET ATTACHMENTS) AND/OR OTHER EQUIPMENT AS REQUIRED FOR THE REMOVAL AND INSTALLATION PROCESS TO INCLUDE THE CONCRETE FOUNDATION, REINFORCING STEEL REBAR AND EXCAVATION NECESSARY TO THE INSTALLATION PROJECT PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 3.4.5 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST AS REQUIRED FOR THE RENTAL AND/OR USE, PICKUP AND DELIVERY OF A DUMPSTER(S) AS NECESSARY TO THE PROJECT CLEANUP AND WASTE REMOVAL. JOBS # 7984A/7984B
- 3.4.6 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR A VEHICLE BLOCKING BARRIER(S) AS REQUIRED TO ENSURE CONSTRUCTION SITE SECURITY. THE BLOCKING BARRIER(S) MUST BE APPROVED BY THE POST RSO OR PSO. JOBS # 7984A/7984B
- 3.4.7 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR PEDESTRIAN FENCING AND/OR NETTING AS REQUIRED FOR PEDESTRIAN SAFETY AND ACCESS CONTROL. JOBS # 7984A/7984B
- 3.4.8 THE CONTRACTOR SHALL CONDUCT AN ESTIMATION OF COST FOR A CONSTRUCTION SITE PORTABLE RESTROOM AS REQUIRED FOR CONTRACTOR PERSONNEL. JOBS # 7984A/7984B
- 3.4.9 THE CONTRACTOR SHALL IDENTIFY AND ADDRESS ANY ANOMALIES OF CONCERN. JOBS # 7984A/7984B
- 3.5 TASKS. (REMOVE)
- 3.5.1 THE CONTRACTOR SHALL REMOVE NORSHIELD NOR-82 (2EA) VEHICLE ARREST SYSTEMS LOCATED AT MAIN AND SERVICE GATES. JOBS # 7984A/7984B
- 3.5.2 THE CONTRACTOR SHALL REMOVE THE CONCRETE FOUNDATION, REINFORCING STEEL REBAR(S), AGGREGATE MATERIAL, ALL HYDRAULIC LINES, ELECTRICAL WIRING, AND CONDUIT PIPING AS REQUIRED UNDERGROUND CONNECTING FROM THE NORSHIELD NOR-82 (2EA) VEHICLE ARREST BARRIER AND BACK TO THE HYDRAULIC PUMPING UNITS. JOBS # 7984A/7984B
- 3.5.3 THE CONTRACTOR SHALL REMOVE THE HYDRAULIC PUMPING UNITS, ASSOCIATED CONCRETE FOUNDATION, REINFORCING STEEL REBAR(S), ALL HYDRAULIC LINES, ELECTRICAL WIRING, AND CONDUIT PIPING AS REQUIRED UNDERGROUND AND CONNECTING BACK TO THE NORSHIELD NOR-82 (2EA) VEHICLE ARREST BARRIER. JOBS # 7984A/7984B
- 3.5.4 THE CONTRACTOR SHALL REMOVE THE ENCLOSURE THAT HOUSES THE HYDRAULIC PUMPING UNITS. JOBS # 7984A/7984B
- 3.5.5 THE CONTRACTOR SHALL REMOVE THE VEHICLE STOP/GO SIGNAL LIGHT ASSEMBLIES, ASSOCIATED CONCRETE FOUNDATION, ALL ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND AND BACK TO THE CONTROL CIRCUITS FOR THE NORSHIELD NOR-82 (2EA) VEHICLE ARREST SYSTEMS. JOBS # 7984A/7984B

- 3.5.6 THE CONTRACTOR SHALL REMOVE THE VEHICLE DETECTOR CIRCUITS, ASSOCIATED CONCRETE FOUNDATION, ALL ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND AND BACK TO THE CONTROL CIRCUITS FOR THE NORSHIELD NOR-82 (2EA) VEHICLE ARREST SYSTEMS. JOBS # 7984A/7984B
- 3.5.7 THE CONTRACTOR SHALL REMOVE THE GATE TRACKS AND ASSOCIATED CONCRETE FOUNDATION FOR THE INSIDE GATES LOCATED AT THE MAIN AND SERVICE COMPOUND ACCESS CONTROL (CAC). JOBS # 7984A/7984B
- 3.5.8 THE CONTRACTOR SHALL REMOVE THE GATE LEAF FOR THE INSIDE GATES LOCATED AT THE MAIN AND SERVICE COMPOUND ACCESS CONTROL (CAC) AND STORE ONSITE FOR REINSTALLATION AFTER THE GATE TRACK IS REPLACED. JOBS # 7984A/7984B
- 3.5.9 THE CONTRACTOR SHALL REMOVE THE VEHICLE BARRIER DRAINAGE WATER SUMP PUMP SYSTEMS INCLUDING ALL ASSOCIATED ELECTRICAL WIRING AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND AND BACK TO THE NORSHIELD NOR-82 (2EA) VEHICLE ARREST BARRIER. JOBS # 7984A/7984B
- 3.5.10 THE CONTRACTOR SHALL REMOVE WATER DRAINAGE PIPING AS REQUIRED FOR THE REROUTING FLOW OF DRAINAGE WATER THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
- 3.5.11 THE CONTRACTOR SHALL REMOVE FRESH WATER PIPING AS REQUIRED FOR THE REROUTING OF FRESH WATER AND PIPING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
- 3.5.12 THE CONTRACTOR SHALL REMOVE GAS PIPING (SEE 3.5.13) AS REQUIRED FOR THE REROUTING OF GAS AND PIPING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
- 3.5.13 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.21) FOR ANY GAS LINE MUST BE SUBMITTED TO THE LOCAL OIL AND GAS COMMISSION BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL OIL AND GAS COMMISSION. JOBS # 7984A/7984B
- 3.5.14 THE CONTRACTOR SHALL REMOVE ELECTRICAL LINES (SEE 3.5.15) OR WIRING AS REQUIRED FOR THE REROUTING OF ELECTRICAL LINES OR WIRING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
- 3.5.15 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.22) FOR ANY ELECTRICAL LINE MUST BE SUBMITTED TO THE LOCAL ELECTRIC COOPERATIVE BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL ELECTRIC COOPERATIVE. JOBS # 7984A/7984B
- 3.5.16 THE CONTRACTOR SHALL IDENTIFY AND ADDRESS ANY ANOMALIES OF CONCERN. JOBS # 7984A/7984B
- 3.6 TASKS. (INSTALL)
- 3.6.1 THE CONTRACTOR SHALL INSTALL ONE DELTA MODEL DSC207S (2EA) VEHICLE ARREST SYSTEMS LOCATED AT MAIN GATE AND SERVICE CAC AS REQUIRED PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 3.6.2 THE CONTRACTOR SHALL INSTALL ONE DELTA MODEL DSC207S (2EA) VEHICLE ARREST BARRIER LOCATED AT MAIN GATE AND SERVICE CAC AS REQUIRED PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 3.6.3 THE CONTRACTOR SHALL INSTALL AS REQUIRED FOR THE DELTA MODEL DSC207S (2EA) A CONCRETE FOUNDATION, REINFORCING STEEL REBAR(S), AND AGGREGATE MATERIALS, AS REQUIRED PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 3.6.4 THE CONTRACTOR SHALL INSTALL ALL HYDRAULIC LINES, ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS REQUIRED UNDERGROUND CONNECTING FROM THE DELTA MODEL DSC207S (2EA) VEHICLE ARREST BARRIER AND BACK TO THE HYDRAULIC PUMPING UNITS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 3.6.5 THE CONTRACTOR SHALL INSTALL ALL HYDRAULIC LINES, ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS REQUIRED UNDERGROUND CONNECTING FROM THE HYDRAULIC PUMPING UNITS AND BACK TO THE DSC207S (2EA) VEHICLE ARREST BARRIERS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 3.6.6 THE CONTRACTOR SHALL INSTALL THE HYDRAULIC PUMPING UNITS AND ALL ASSOCIATED WIRING AND PVC CONDUIT PIPING PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 3.6.7 THE CONTRACTOR SHALL INSTALL THE ENCLOSURE THAT HOUSES THE HYDRAULIC PUMPING UNITS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B

- 3.6.8 THE CONTRACTOR SHALL INSTALL THE VEHICLE STOP/GO SIGNAL LIGHT ASSEMBLIES, ASSOCIATED CONCRETE FOUNDATION, ALL ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND AND BACK TO THE CONTROL CIRCUITS FOR THE DELTA MODEL DSC207S (2EA) VEHICLE ARREST SYSTEMS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 3.6.9 THE CONTRACTOR SHALL INSTALL THE VEHICLE DETECTOR CIRCUITS, ASSOCIATED CONCRETE FOUNDATION, ALL ELECTRICAL WIRING, AND PVC CONDUIT PIPING AS CONNECTED UNDERGROUND AND BACK TO THE CONTROL CIRCUITS FOR THE DELTA MODEL DSC207S (2EA) VEHICLE ARREST SYSTEMS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 3.6.10 THE CONTRACTOR SHALL INSTALL THE GATE TRACKS AND ASSOCIATED CONCRETE FOUNDATION FOR THE INSIDE GATES LOCATED AT THE MAIN AND SERVICE COMPOUND ACCESS CONTROL (CAC).
- 3.6.11 THE CONTRACTOR SHALL INSTALL THE GATE LEAF FOR THE INSIDE GATES LOCATED AT THE MAIN AND SERVICE COMPOUND ACCESS CONTROL (CAC).
- 3.6.12 THE CONTRACTOR SHALL INSTALL THE VEHICLE BARRIER DRAINAGE WATER SUMP PUMP SYSTEMS TO INCLUDE THE APPROPRIATE DISPOSAL OF WATER TO THE NEAREST WATER DRAINAGE OR SEWER INCLUDING ALL ASSOCIATED ELECTRICAL WIRING AND PVC CONDUIT PIPING AS REQUIRED UNDERGROUND AND CONNECTING FROM THE DELTA MODEL DSC207S (2EA) VEHICLE ARREST BARRIER AND BACK TO THE SUMP PUMP AND WATER DRAINAGE OR SEWER SYSTEMS. JOBS # 7984A/7984B
- 3.6.13 THE CONTRACTOR SHALL INSTALL WATER DRAINAGE PIPING AS REQUIRED FOR REROUTING THE FLOW OF WATER DRAINAGE THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
- 3.6.14 THE CONTRACTOR SHALL INSTALL FRESH WATER PIPING AS REQUIRED FOR THE REROUTING OF FRESH WATER AND PIPING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
- 3.6.15 THE CONTRACTOR SHALL INSTALL GAS PIPING (SEE 3.6.16) AS REQUIRED FOR THE REROUTING OF GAS AND PIPING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
- 3.6.16 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.21) FOR ANY GAS LINE MUST BE SUBMITTED TO THE LOCAL OIL AND GAS COMMISSION BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL OIL AND GAS COMMISSION. JOBS # 7984A/7984B
- 3.6.17 THE CONTRACTOR SHALL INSTALL ELECTRICAL LINES (SEE 3.6.18) OR WIRING AS REQUIRED FOR THE REROUTING OF ELECTRICAL LINES OR WIRING THROUGH AND/OR AROUND THE VEHICLE BARRIER CONSTRUCTION SITE. JOBS # 7984A/7984B
- 3.6.18 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.22) FOR ANY ELECTRICAL LINE MUST BE SUBMITTED TO THE LOCAL ELECTRIC COOPERATIVE BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL ELECTRIC COOPERATIVE. JOBS # 7984A/7984B
- 3.6.19 THE CONTRACTOR SHALL INSTALL A SUMP PUMP WELL AS REQUIRED FOR THE INSTALLATION OF A SUMP PUMP SYSTEMS. JOBS # 7984A/7984B
- 3.6.20 THE CONTRACTOR SHALL IDENTIFY AND ADDRESS ANY ANOMALIES OF CONCERN. JOBS # 7984A/7984B
- 3.7 TASKS. (WASTE DISPOSAL)
- 3.7.1 THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL WASTE MATERIALS INCLUDING CONCRETE, AGGREGATE MATERIALS, REINFORCING STEEL REBAR(S), STEEL BARRIER ROAD PLATE(S)/DROP-ARM(S), CONDUIT PIPING, AND ALL ELECTRICAL WIRING ASSOCIATED WITH THE REMOVAL AND INSTALLATION PROCESS PERTAINING TO THE NORSHIELD NOR-82 (2EA) AND DELTA SCIENTIFIC DSC207/VEHICLE ARREST BARRIERS TO INCLUDE ASSOCIATED SYSTEMS PARTS. JOBS # 7984A/7984B
- 3.7.2 THE CONTRACTOR SHALL IDENTIFY AND ADDRESS ANY ANOMALIES OF CONCERN. JOBS # 7984A/7984B
- 3.8 PROJECT TIME LINE.
- 3.8.1 THE CONTRACTOR SHALL DETERMINE THE PROJECT TIME LINE REQUIRED TO INITIATE AND COMPLETE THE REMOVAL, EXCAVATION, AND INSTALLATION AS FULLY OPERATIONAL VEHICLE ARREST SYSTEMS WITHIN 60 CALENDAR DAYS. JOBS # 7984A/7984B
- 3.8.2 THE CONTRACTOR SHALL IDENTIFY AND ADDRESS ANY ANOMALIES OF CONCERN. JOBS # 7984A/7984B

- 4.0 GOVERNMENT FURNISHED MATERIALS.
- 4.1 THE GOVERNMENT SHALL PROVIDE THE FOLLOWING:
 - 4.1.1 THE GOVERNMENT SHALL PROVIDE THE DELTA MODEL DSC207S (2EA) VEHICLE ARREST BARRICADE. JOBS # 7984A/7984B
 - 4.1.2 THE GOVERNMENT SHALL PROVIDE THE DELTA CONTROL PANEL(S).
 - 4.1.3 THE GOVERNMENT SHALL PROVIDE THE DELTA HYDRAULIC POWER UNITS. (HPU) JOBS # 7984A/7984B
 - 4.1.4 THE GOVERNMENT SHALL PROVIDE THE DELTA ENCLOSURE, (FOR THE HYDRAULIC PUMPING UNITS). JOBS # 7984A/7984B
 - 4.1.5 THE GOVERNMENT SHALL PROVIDE THE DELTA STOP/GO SIGNAL ASSEMBLIES. JOBS # 7984A/7984B
 - 4.1.6 THE GOVERNMENT SHALL PROVIDE THE VEHICLE DETECTOR CIRCUIT(S). JOBS # 7984A/7984B
 - 4.1.7 THE GOVERNMENT SHALL PROVIDE THE GATE TRACK (THE GATE LEAF WILL BE REUSED.)
 - 4.1.8 THE GOVERNMENT SHALL PROVIDE THE SUMP PUMP UNITS. JOBS # 7984A/7984B
 - 4.1.9 THE GOVERNMENT SHALL PROVIDE THE HYDRAULIC OIL. 46 GRADE JOBS # 7984A/7984B
 - 4.1.10 THE GOVERNMENT SHALL PROVIDE THE DRY NITROGEN, 2000 PSI JOBS # 7984A/7984B
 - 4.1.11 THE GOVERNMENT SHALL PROVIDE THE SPRAY PAINT, SAFETY YELLOW JOBS # 7984A/7984B
 - 4.1.12 THE GOVERNMENT SHALL PROVIDE THE SPRAY PAINT, GLOSS BLACK JOBS # 7984A/7984B
 - 4.1.13 THE GOVERNMENT SHALL PROVIDE ALL OF THE HYDRAULIC HOSES, HOSE FITTINGS, PVC/EMT CONDUIT, CONDUIT FITTINGS, WATER DRAINAGE PIPING, FRESH WATER PIPING, GAS PIPING, HPU ELECTRICAL WIRING, CONTROL WIRING, BIODEGRADABLE GREASE CLEANER, AND MISCELLANEOUS PARTS ASSOCIATED WITH THE INSTALLATION. JOBS # 7984A/7984B
 - 4.1.14 THE CONTRACTOR SHALL IDENTIFY AND ADDRESS ANY ANOMALIES OF CONCERN. JOBS # 7984A/7984B
- 5.0 CONTRACTOR FURNISHED MATERIALS.
- 5.1 THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:
 - 5.1.1 THE CONTRACTOR SHALL PROVIDE ALL CONCRETE REQUIRED FOR THE FOUNDATION INSTALLATION OF DSC207S (2EA) BARRIER(S) PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
 - 5.1.2 THE CONTRACTOR SHALL PROVIDE ALL CONCRETE REQUIRED FOR THE FOUNDATION INSTALLATION OF THE HYDRAULIC PUMPING UNITS TO INCLUDE THE ENCLOSURE THAT HOUSES THE HYDRAULIC PUMPING UNITS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
 - 5.1.3 THE CONTRACTOR SHALL PROVIDE ALL CONCRETE AND AGGREGATE MATERIALS REQUIRED FOR THE FOUNDATION INSTALLATION OF THE VEHICLE DETECTOR CIRCUITS, AND THE STOP/GO SIGNAL LIGHT ASSEMBLIES PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
 - 5.1.4 THE CONTRACTOR SHALL PROVIDE ALL CONCRETE REQUIRED FOR THE FOUNDATION INSTALLATION OF THE SUMP PUMP SYSTEMS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
 - 5.1.5 THE CONTRACTOR SHALL PROVIDE ALL CONCRETE REQUIRED FOR THE FOUNDATION INSTALLATION OF THE WATER DRAINAGE PIPING. JOBS # 7984A/7984B
 - 5.1.6 THE CONTRACTOR SHALL PROVIDE ALL CONCRETE REQUIRED FOR THE FOUNDATION INSTALLATION OF THE FRESH WATER PIPING. JOBS # 7984A/7984B
 - 5.1.7 THE CONTRACTOR SHALL PROVIDE ALL CONCRETE REQUIRED FOR THE FOUNDATION INSTALLATION OF THE GAS PIPING (SEE 5.1.8). JOBS # 7984A/7984B
 - 5.1.8 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.21) FOR ANY GAS LINE MUST BE SUBMITTED TO THE LOCAL OIL AND GAS COMMISSION BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL OIL AND GAS COMMISSION. JOBS # 7984A/7984B
 - 5.1.9 THE CONTRACTOR SHALL PROVIDE ALL CONCRETE REQUIRED FOR THE FOUNDATION INSTALLATION OF THE ELECTRICAL LINES OR WIRING (SEE 5.1.10). JOBS # 7984A/7984B



BARRIER SYSTEM UPGRADE for OUAGADOUGOU, BURKINA FASO

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SCOPE OF WORK (SOW)

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DRAWING SCALE	
NONE	
PROJECT NUMBER	
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DRAWN BY	DRAWING NUMBER
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CLASSIFICATION	REV.
SENSITIVE BUT UNCLASSIFIED	

SENSITIVE BUT UNCLASSIFIED

SCOPE OF WORK (SOW)

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- 5.1.10 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.22) FOR ANY ELECTRICAL LINE MUST BE SUBMITTED TO THE LOCAL ELECTRIC COOPERATIVE BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL ELECTRIC COOPERATIVE. JOBS # 7984A/7984B
- 5.1.11 THE CONTRACTOR SHALL PROVIDE ALL AGGREGATE MATERIALS REQUIRED FOR THE FOUNDATION INSTALLATION OF THE DSC207S (2EA) AND VEHICLE BARRIER(S) PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 5.1.12 THE CONTRACTOR SHALL PROVIDE ALL AGGREGATE MATERIALS REQUIRED FOR THE FOUNDATION INSTALLATION OF THE HYDRAULIC PUMPING UNITS AND ENCLOSURE THAT HOUSES THE HYDRAULIC PUMPING UNITS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 5.1.13 THE CONTRACTOR SHALL PROVIDE ALL AGGREGATE MATERIALS REQUIRED FOR THE FOUNDATION INSTALLATION OF THE SUMP PUMP UNITS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 5.1.14 THE CONTRACTOR SHALL PROVIDE ALL AGGREGATE MATERIALS REQUIRED FOR THE FOUNDATION INSTALLATION OF THE WATER DRAINAGE PIPING. JOBS # 7984A/7984B
- 5.1.15 THE CONTRACTOR SHALL PROVIDE ALL AGGREGATE MATERIALS REQUIRED FOR THE FOUNDATION INSTALLATION OF THE FRESH WATER PIPING. JOBS # 7984A/7984B
- 5.1.16 THE CONTRACTOR SHALL PROVIDE ALL AGGREGATE MATERIALS REQUIRED FOR THE FOUNDATION INSTALLATION OF THE GAS PIPING (SEE 5.1.17). JOBS # 7984A/7984B
- 5.1.17 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.21) FOR ANY GAS LINE MUST BE SUBMITTED TO THE LOCAL OIL AND GAS COMMISSION BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL OIL AND GAS COMMISSION. JOBS # 7984A/7984B
- 5.1.18 THE CONTRACTOR SHALL PROVIDE ALL AGGREGATE MATERIALS REQUIRED FOR THE FOUNDATION INSTALLATION OF THE ELECTRICAL LINES OR WIRING (SEE 5.1.19). JOBS # 7984A/7984B
- 5.1.19 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.22) FOR ANY ELECTRICAL LINE MUST BE SUBMITTED TO THE LOCAL ELECTRIC COOPERATIVE BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL ELECTRIC COOPERATIVE. JOBS # 7984A/7984B
- 5.1.20 THE CONTRACTOR SHALL PROVIDE ALL REINFORCING STEEL REBAR(S) REQUIRED FOR THE FOUNDATION INSTALLATION OF THE DSC207S (2EA) VEHICLE BARRIER(S) PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 5.1.21 THE CONTRACTOR SHALL PROVIDE ALL REINFORCING STEEL REBAR(S) REQUIRED FOR THE FOUNDATION INSTALLATION OF THE HYDRAULIC PUMPING UNITS AND ENCLOSURE THAT HOUSES THE HYDRAULIC PUMPING UNITS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 5.1.22 THE CONTRACTOR SHALL PROVIDE ALL REINFORCING STEEL REBAR(S) REQUIRED FOR THE FOUNDATION INSTALLATION OF THE SUMP PUMP UNITS PER MANUFACTURER INSTRUCTIONS. JOBS # 7984A/7984B
- 5.1.23 THE CONTRACTOR SHALL PROVIDE ALL REINFORCING STEEL REBAR(S) REQUIRED FOR THE FOUNDATION INSTALLATION OF THE WATER DRAINAGE PIPING. JOBS # 7984A/7984B
- 5.1.24 THE CONTRACTOR SHALL PROVIDE ALL REINFORCING STEEL REBAR(S) REQUIRED FOR THE FOUNDATION INSTALLATION OF THE FRESH WATER PIPING. JOBS # 7984A/7984B
- 5.1.25 THE CONTRACTOR SHALL PROVIDE ALL REINFORCING STEEL REBAR(S) REQUIRED FOR THE FOUNDATION INSTALLATION OF THE GAS PIPING (SEE 5.1.26). JOBS # 7984A/7984B
- 5.1.26 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.21) FOR ANY GAS LINE MUST BE SUBMITTED TO THE LOCAL OIL AND GAS COMMISSION BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL OIL AND GAS COMMISSION. JOBS # 7984A/7984B
- 5.1.27 THE CONTRACTOR SHALL PROVIDE ALL REINFORCING STEEL REBAR(S) REQUIRED FOR THE FOUNDATION INSTALLATION OF THE ELECTRICAL LINES OR WIRING (SEE 5.1.28). JOBS # 7984A/7984B
- 5.1.28 NOTICE OF CONSTRUCTION AND/OR REPAIR (SEE 6.1.22) FOR ANY ELECTRICAL LINE MUST BE SUBMITTED TO THE LOCAL ELECTRIC COOPERATIVE BEFORE THE START OF ANY CONSTRUCTION OR REPAIRS. CONSTRUCTION AND/OR REPAIRS MUST BE UNDER THE AUTHORITY AND SUPERVISION OF THE LOCAL ELECTRIC COOPERATIVE. JOBS # 7984A/7984B
- 5.1.29 THE CONTRACTOR SHALL PROVIDE A DUMPSTER(S) AS REQUIRED FOR THE CLEANUP AND DISPOSAL OF ALL WASTE MATERIALS. JOBS # 7984A/7984B

- 5.1.30 THE CONTRACTOR SHALL PROVIDE ALL EXCAVATION AND INSTALLATION EQUIPMENT REQUIRED (I.E. FORKLIFT, FRONT LOADER, EXCAVATOR WITH HOE RAM AND BUCKET ATTACHMENTS, HANDHELD BREAKER HAMMER, ARC WELDING EQUIPMENT, CUTTING TORCH, GROUND TAMPER, WHEEL BARRROW(S), POWERED SAW FOR CONCRETE CUTTING, STEEL RAKE(S), PICK AXE(S), FLAT HEAD SHOVEL(S), SPADE SHOVEL(S), PUSH BROOM(S), WATER HOSE W/SPRAY ATTACHMENTS, PRESSURE WASHER, LARGE HANDHELD GRINDER WITH CUTOFF AND MASONRY WHEELS, ELECTRICAL EXTENSION CORD(S), CONCRETE VIBRATOR(S), CHAIN SLINGS, ETC. JOBS # 7984A/7984B
- 5.1.31 THE CONTRACTOR SHALL PROVIDE ALL EXCAVATION MATERIALS (I.E. MASONRY BLOCKS, LUMBER FOR FORMWORK, CONCRETE TO CONCRETE EXPANSION JOINTS, PLASTIC SHEETING FOR CONCRETE CURING, STRING LINE, NAILS, EXPANDABLE SPRAY FOAM, ETC.). JOBS # 7984A/7984B
- 5.1.32 THE CONTRACTOR SHALL PROVIDE ALL SMALL HANDHELD TOOLS, DRILLS, DRILL BITS, WRENCHES, SCREWDRIVERS, KNOCKOUT HOLE PUNCH SET, HOLE SAW KIT, FISH TAPE, HANDHELD HYDRAULIC OIL FLUID PUMP, LARGE FUNNEL SPOUT, ETC. AS REQUIRED FOR THE INSTALLATION PROJECT. JOBS # 7984A/7984B
- 5.1.33 THE CONTRACTOR SHALL PROVIDE WELL COVERS AS REQUIRED FOR THE PROJECT INSTALLATION. THE WELL AND COVERS SHALL MEET OR EXCEED A 25 TON LOAD CAPACITY. JOBS # 7984A/7984B
- 5.1.34 THE CONTRACTOR SHALL PROVIDE VEHICLE BLOCKING BARRIER(S) AS REQUIRED TO ENSURE CONSTRUCTION SITE SECURITY. THE BLOCKING BARRIER(S) MUST BE APPROVED BY THE POST RSO OR PSO. JOBS # 7984A/7984B
- 5.1.35 THE CONTRACTOR SHALL PROVIDE PEDESTRIAN FENCING AND/OR NETTING AS REQUIRED FOR PEDESTRIAN SAFETY AND ACCESS CONTROL. JOBS # 7984A/7984B
- 5.1.36 THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION SITE PORTABLE RESTROOM AS REQUIRED FOR CONTRACTOR PERSONNEL. JOBS # 7984A/7984B
- 5.1.37 THE CONTRACTOR SHALL IDENTIFY AND ADDRESS ANY ANOMALIES OF CONCERN. JOBS # 7984A/7984B

6.0 CONTRACTOR RESPONSIBILITIES.

- 6.1 THE CONTRACTOR SHALL CONFORM TO THE FOLLOWING:
 - 6.1.1 THE CONTRACTOR SHALL CONFORM TO THE MANUFACTURE GUIDELINES AND INSTALLATION SPECIFICATIONS. JOBS # 7984A/7984B
 - 6.1.2 THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE JOBS SITE. JOBS # 7984A/7984B
 - 6.1.3 THE CONTRACTOR SHALL VERIFY THAT THE FOUNDATION CONCRETE WILL BE PLACED DIRECTLY INTO NEAT EXCAVATIONS. AND WHERE SIDES OF THE EXCAVATION ARE NOT STABLE THE CONTRACTOR SHALL PROVIDE SHORING. TYPE AND METHOD OF SHORING SHALL BE AT THE CONTRACTOR'S OPTION. JOBS # 7984A/7984B
 - 6.1.4 THE CONTRACTOR SHALL ENSURE THE EXCAVATION IS KEPT DRY AT ALL TIMES. JOBS # 7984A/7984B
 - 6.1.5 THE CONTRACTOR SHALL ENSURE THE CONCRETE IS LABORATORY DESIGNED, MACHINE MIXED, PRODUCING 3,000 PSI (20,68 MPA) AT 28 DAYS. JOBS # 7984A/7984B
 - 6.1.6 THE CONTRACTOR SHALL ENSURE THE CEMENT IS TESTED PORTLAND CEMENT CONFORMING TO ASTM C150, TYPE II ONLY. JOBS # 7984A/7984B
 - 6.1.7 THE CONTRACTOR SHALL ENSURE THE AGGREGATES CONFORM TO ASTM C33 & B GRADE PER STANDARD SPECIFICATIONS. MAXIMUM SIZE OF AGGREGATE SHALL BE 1-1/2 INCHES (38MM). JOBS # 7984A/7984B
 - 6.1.8 THE CONTRACTOR SHALL ENSURE THE REINFORCING STEEL TO BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 (60,000 PSI OR 413.7MPA). JOBS # 7984A/7984B
 - 6.1.9 THE CONTRACTOR SHALL ENSURE THAT ALL HOOKS AND BENDS CONFORM TO ACI STANDARD 318. LATEST REVISION. INSIDE DIAMETER OF HOOKS AND BENDS SHALL BE AT LEAST SIX (6) BAR DIAMETERS. JOBS # 7984A/7984B
 - 6.1.10 THE CONTRACTOR SHALL PROVIDE SPACER BARS, CHAIRS, SPREADERS, BLOCKS, ETC. AS REQUIRED TO POSITIVELY HOLD THE STEEL IN PLACE BEFORE CONCRETE IS POURED. JOBS # 7984A/7984B
 - 6.1.11 THE CONTRACTOR SHALL ENSURE THE CONCRETE IS CONVEYED FROM THE MIXER TO FINAL DEPOSIT BY METHODS THAT WILL PREVENT SEPARATION AND LOSS. JOBS # 7984A/7984B
 - 6.1.12 THE CONTRACTOR SHALL ENSURE THE CONCRETE IS THOROUGHLY CONSOLIDATED BY SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND CORNERS OF FORMS. JOBS # 7984A/7984B

- 6.1.13 THE CONTRACTOR SHALL ENSURE THE CONCRETE IS MAINTAINED ABOVE 50°F (10°C) AND IN A MOIST CONDITION FOR AT LEAST SEVEN (7) DAYS AFTER PLACEMENT. AND THAT ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER. JOBS # 7984A/7984B
- 6.1.14 THE CONTRACTOR SHALL ENSURE THAT WHERE EXTERIOR WALL FACE REQUIRES SHORING AND/OR FORMING, THE FORMS SHALL BE SUBSTANTIAL AND SUFFICIENTLY TIGHT TO PREVENT LEAKAGE, AND THAT FORMS SHALL NOT BE REMOVED UNTIL THE CONCRETE IS SEVEN (7) DAYS OLD. JOBS # 7984A/7984B
- 6.1.15 THE CONTRACTOR SHALL ENSURE THAT BACKFILLING WILL BE DONE BY DEPOSITING AND TAMPING INTO PLACE CLEAN SAND OR POURING LEAN CONCRETE TO 95% PERCENT COMPACTION. WATER JETTING SHALL NOT BE ALLOWED. JOBS # 7984A/7984B
- 6.1.16 THE CONTRACTOR SHALL ENSURE THAT CONDUIT AND PIPES OF ALUMINUM ARE NOT ALLOWED. JOBS # 7984A/7984B
- 6.1.17 THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION JOINTS THAT ARE NOT INDICATED ON THE DRAWINGS SHALL NOT BE ALLOWED. WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF THE CONCRETE SHALL BE THOROUGHLY CLEANED AND ALL LAITANCE AND STANDING WATER REMOVED. JOBS # 7984A/7984B
- 6.1.18 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT AREAS AGAINST DAMAGE AND SHALL REPAIR ALL DAMAGED AREAS TO MATCH EXISTING IMPROVEMENTS. JOBS # 7984A/7984B
- 6.1.19 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ELECTRICAL LINES AND/OR WIRING LOCATED IN THE ADJACENT AREAS AGAINST DAMAGE AND SHALL REPAIR ALL DAMAGED ELECTRICAL LINES AND/OR WIRING. JOBS # 7984A/7984B
- 6.1.20 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL WATER, GAS, AND SEWAGE LINES LOCATED IN THE ADJACENT AREA AGAINST DAMAGE AND SHALL REPAIR ALL DAMAGED WATER, GAS AND/OR SEWAGE LINES. JOBS # 7984A/7984B
- 6.1.21 THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE LOCAL OIL AND GAS COMMISSION BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR REPAIRS OF GAS LINES. JOBS # 7984A/7984B
- 6.1.22 THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF UNDERGROUND POWER LINES, WATER, GAS, AND SEWER MAINS TO PREVENT DAMAGE DURING CONSTRUCTION. IT IS CRITICAL TO PROTECT CITY UTILITIES FROM "DIG-INS", WHICH COULD RESULT IN DEATH, INJURY AND CONSIDERABLE LIABILITY. JOBS # 7984A/7984B
- 6.1.23 THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA CLEAN AT ALL TIMES AND AT COMPLETION OF WORK REMOVE ALL SURPLUS MATERIALS, EQUIPMENT AND DEBRIS LEAVING THE PREMISES IN A CLEAN CONDITION ACCEPTABLE TO THE OWNER OR OWNERS REPRESENTATIVE. JOBS # 7984A/7984B
- 6.1.24 THE CONTRACTOR SHALL PERFORM DAMAGE RESTORATION IMPROVEMENTS AS ASSOCIATED WITH THE VEHICLE ARREST SYSTEMS INSTALLATION. JOBS # 7984A/7984B
- 6.1.25 THE CONTRACTOR SHALL IDENTIFY AND ADDRESS ANY ANOMALIES OF CONCERN. JOBS # 7984A/7984B

7.0 DELIVERY REQUIREMENTS.

- 7.1 THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:
 - 7.1.1 THE CONTRACTOR SHALL PROVIDE WEEKLY WRITTEN PROGRESS REPORTS TO THE GOVERNMENT PROJECT REPRESENTATIVE. JOBS # 7984A/7984B
 - 7.1.2 THE CONTRACTOR SHALL PROVIDE DAILY VERBAL PROGRESS REPORTS AS REQUESTED BY THE GOVERNMENT PROJECT REPRESENTATIVE. JOBS # 7984A/7984B
 - 7.1.3 THE CONTRACTOR SHALL IDENTIFY AND ADDRESS ANY ANOMALIES OF CONCERN. JOBS # 7984A/7984B

8.0 PERIOD OF PERFORMANCE.

- 8.1 INITIATION AND COMPLETION DATE.
 - 8.1.1 DATE OF AWARD _____
 - 8.1.2 PROJECT INITIATION DATE 10 JANUARY 2013
 - 8.1.3 PROJECT COMPLETION DATE: 60 DAYS FROM PROJECT INITIATION DATE.

9.0 COMMENTS.

- 9.1 ADDITIONAL INFORMATION.
 - 9.1.1 THROUGHOUT THE INSTALLATION PROCESS THERE WILL BE A GOVERNMENT PROJECT REPRESENTATIVE ON SITE TO ASSIST THE CONTRACTOR WITH ANY ANOMALIES OR AREAS OF CONCERN.
 - 9.1.2 THE CONTRACTOR, UPON COMPLETION OF THE PROJECT SHALL REMAND ALL DOCUMENTATION FOR THE PROJECT AS REQUIRED BY POST REGIONAL SECURITY OFFICER AND/OR POST SECURITY OFFICER.



BARRIER SYSTEM
UPGRADE
for
OUAGADOUGOU, BURKINA FASO

U.S. DEPT. OF STATE
OFFICE OF SECURITY
COORDINATION
ALEXANDRIA, VA 22304-6100
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SCOPE OF WORK (SOW)

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PROJECT NUMBER	PME11-13-05
DRAWN BY	WFG
DESIGNED BY	RH
DATE	11/05/12
CLASSIFICATION	SENSITIVE BUT UNCLASSIFIED
DRAWING NUMBER	SY1.06
SHEET	6 OF 16
REV.	

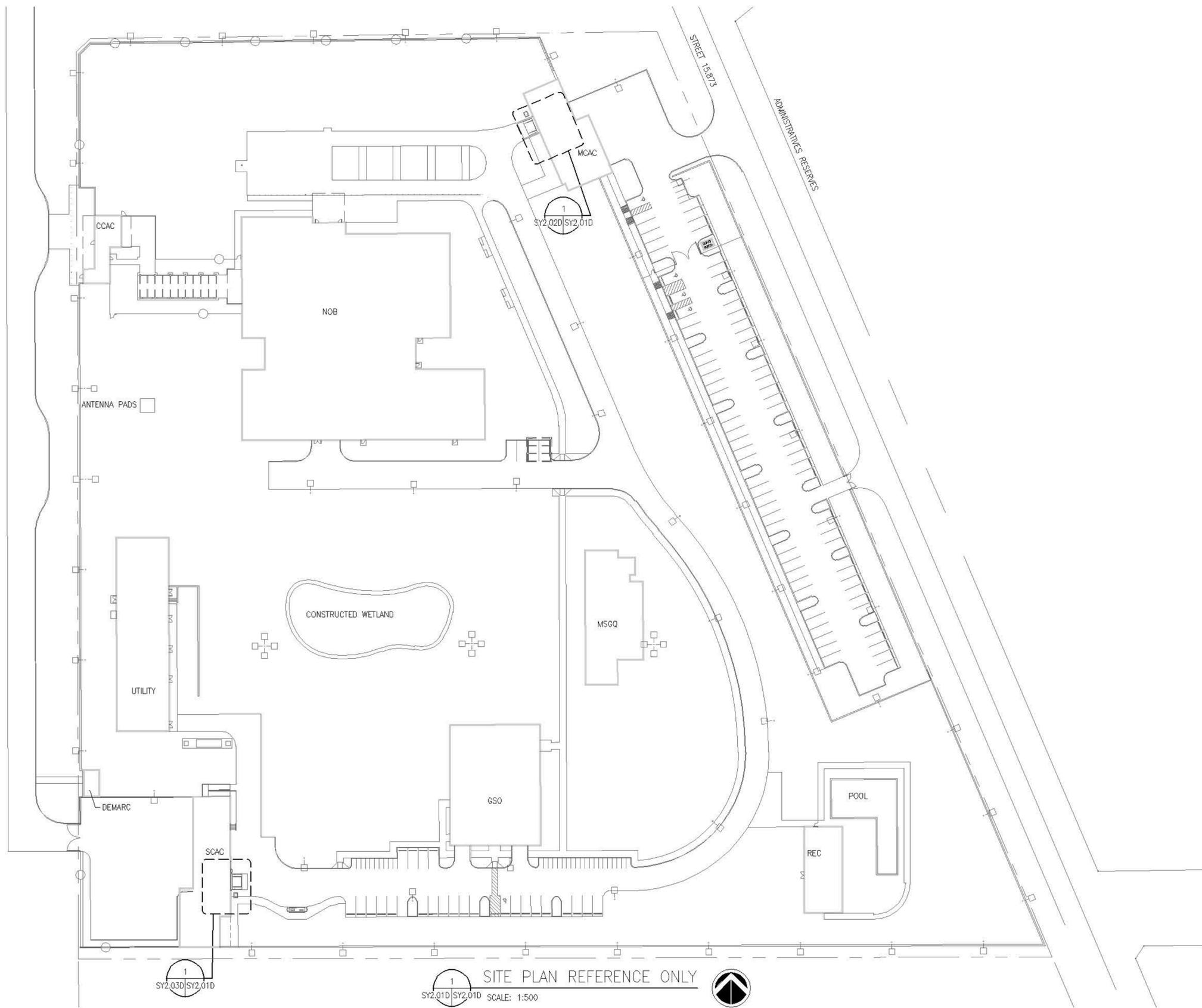
PHASE

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SENSITIVE BUT UNCLASSIFIED

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MINISTRY OF AGRICULTURE



1 SITE PLAN REFERENCE ONLY
SY2.01D/SY2.01D SCALE: 1:500

SENSITIVE BUT UNCLASSIFIED

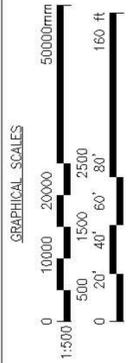


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**BARRIER SYSTEM
UPGRADE
for
OUAGADOUGOU, BURKINA FASO**

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KEY PLAN

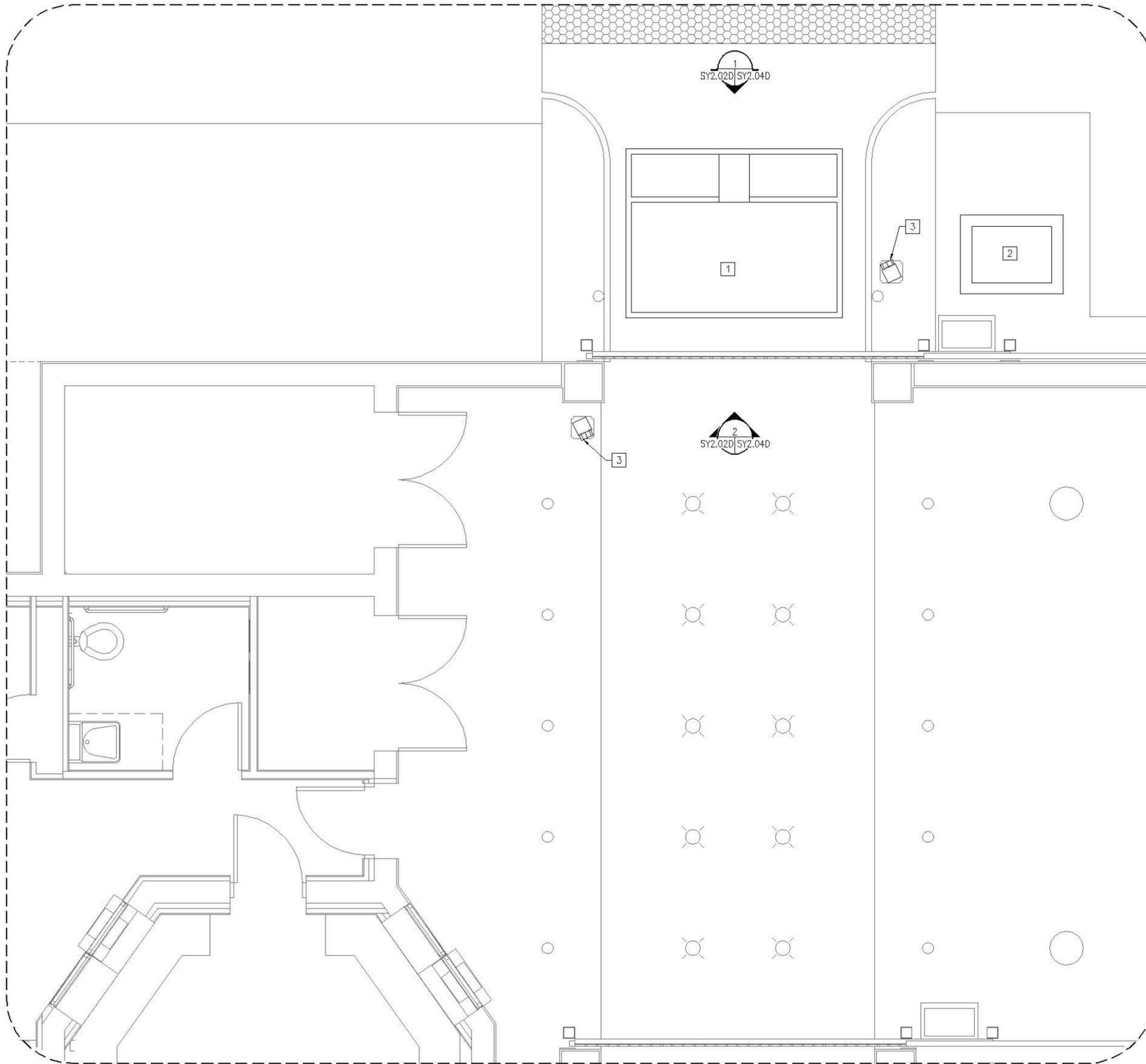


SITE PLAN
REFERENCE ONLY

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AS NOTED	
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PME11-13-05	
DRAWN BY	DRAWING NUMBER
WFC	SY2.01D
DESIGNED BY	SHEET 7 OF 16
RH	
DATE	REV.
11/05/12	
CLASSIFICATION	
SENSITIVE BUT UNCLASSIFIED	

SENSITIVE BUT UNCLASSIFIED



1 SITE PARTIAL PLAN - MCAC GATE
 SY2.01D|SY2.02D SCALE: 1:30

SENSITIVE BUT UNCLASSIFIED

DRAWING NOTES

1. REFER TO DRAWING SY1.03 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO DRAWING SECTION 5 FOR EQUIPMENT INSTALLATION DETAILS.
3. REFER TO DRAWING SECTION 6 FOR THE EQUIPMENT SCHEDULES.

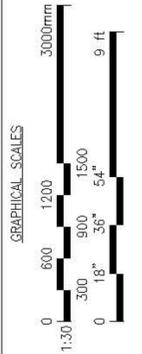
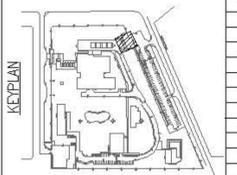
DRAWING KEY NOTES

- 1 REMOVE EXISTING NORSHIELD BARRIER (NOR-82).
- 2 REMOVE EXISTING HPU AND PAD.
- 3 REMOVE EXISTING TRAFFIC LIGHT. (2 PLACES)



**BARRIER SYSTEM
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 for
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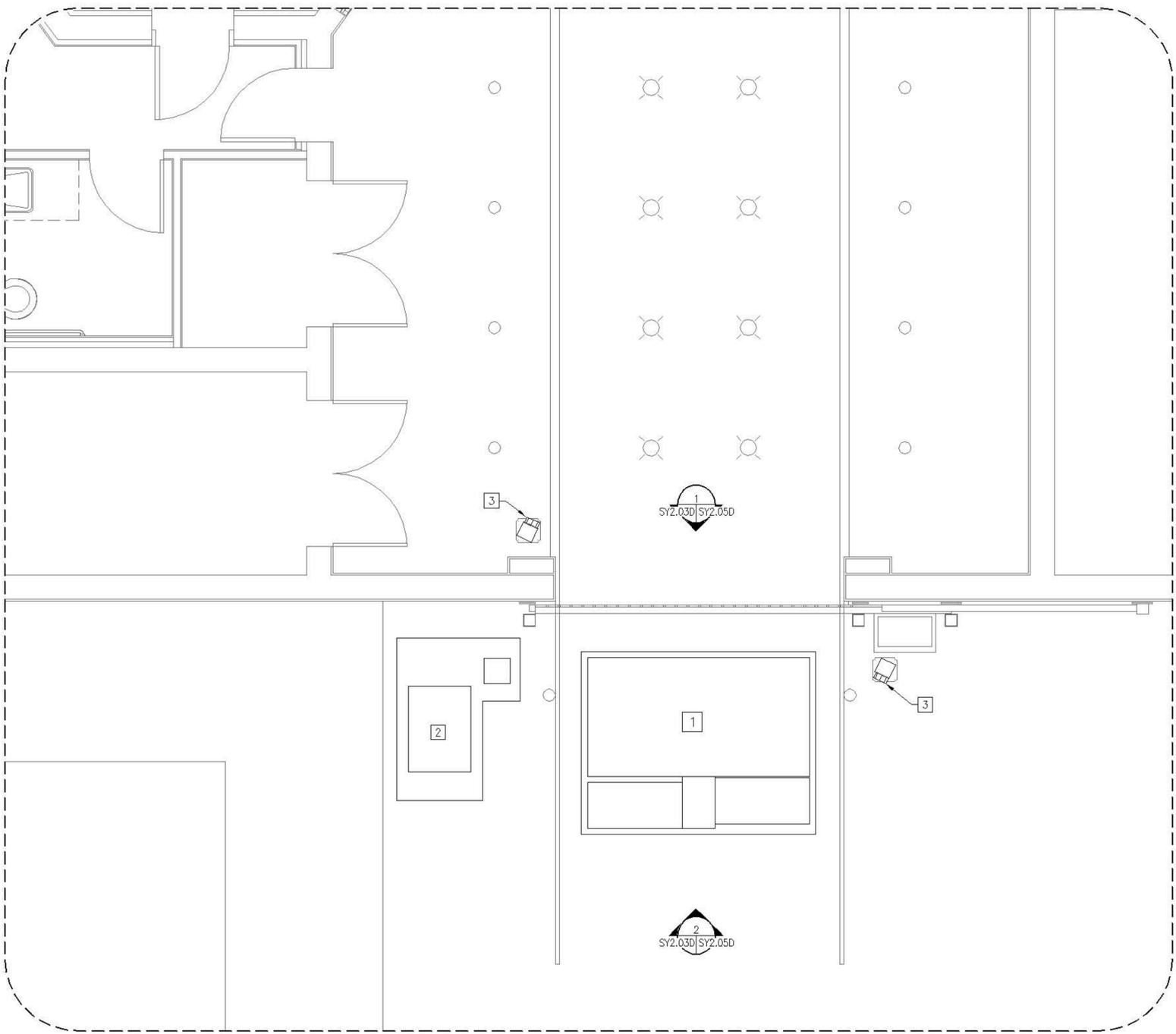
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DRAWING SCALE	
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DRAWN BY	DRAWING NUMBER
WFC	SY2.02D
DESIGNED BY	SHEET 8 OF 16
RH	
DATE	
11/05/12	
CLASSIFICATION	REV.
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DRAWING NOTES

1. REFER TO DRAWING SY1.03 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO DRAWING SECTION 5 FOR EQUIPMENT INSTALLATION DETAILS.
3. REFER TO DRAWING SECTION 6 FOR THE EQUIPMENT SCHEDULES.

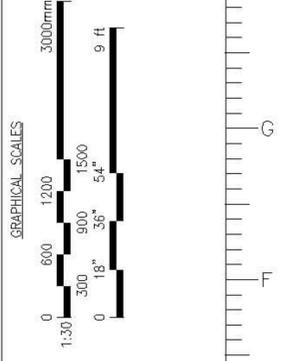
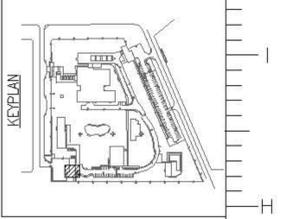
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- 1 REMOVE EXISTING NORSHIELD BARRIER (NOR-82).
- 2 REMOVE EXISTING HPU AND PAD.
- 3 REMOVE EXISTING TRAFFIC LIGHT. (2 PLACES)



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DRAWING TITLE	
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PHASE	
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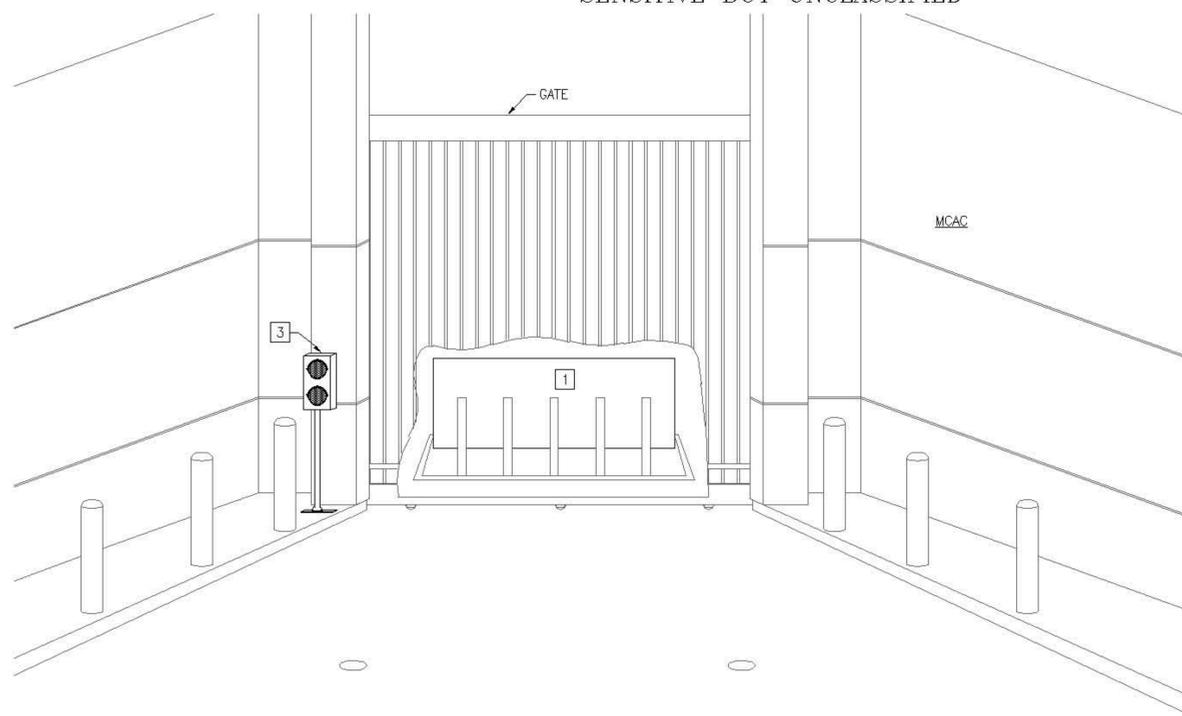
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DRAWN BY	DRAWING NUMBER
WFC	SY2.03D
DESIGNED BY	SHEET
RH	9 OF 16
DATE	REV.
11/05/12	
CLASSIFICATION	REV.
SENSITIVE BUT UNCLASSIFIED	

1 SITE PARTIAL PLAN - SCAC GATE
SY2.010 | SY2.030 SCALE: 1:30



SENSITIVE BUT UNCLASSIFIED

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1 MCAC BARRIER LAYOUT - ELEVATION - ENTRANCE
 SY2.02D SY2.04D SCALE: NONE

DRAWING NOTES

1. REFER TO DRAWING SY1.03 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO DRAWING SECTION 5 FOR EQUIPMENT INSTALLATION DETAILS.
3. REFER TO DRAWING SECTION 6 FOR THE EQUIPMENT SCHEDULES.

DRAWING KEY NOTES

- 1 REMOVE EXISTING NORSHIELD BARRIER (NOR-82).
- 2 REMOVE EXISTING HPU AND PAD.
- 3 REMOVE EXISTING TRAFFIC LIGHT. (2 PLACES)

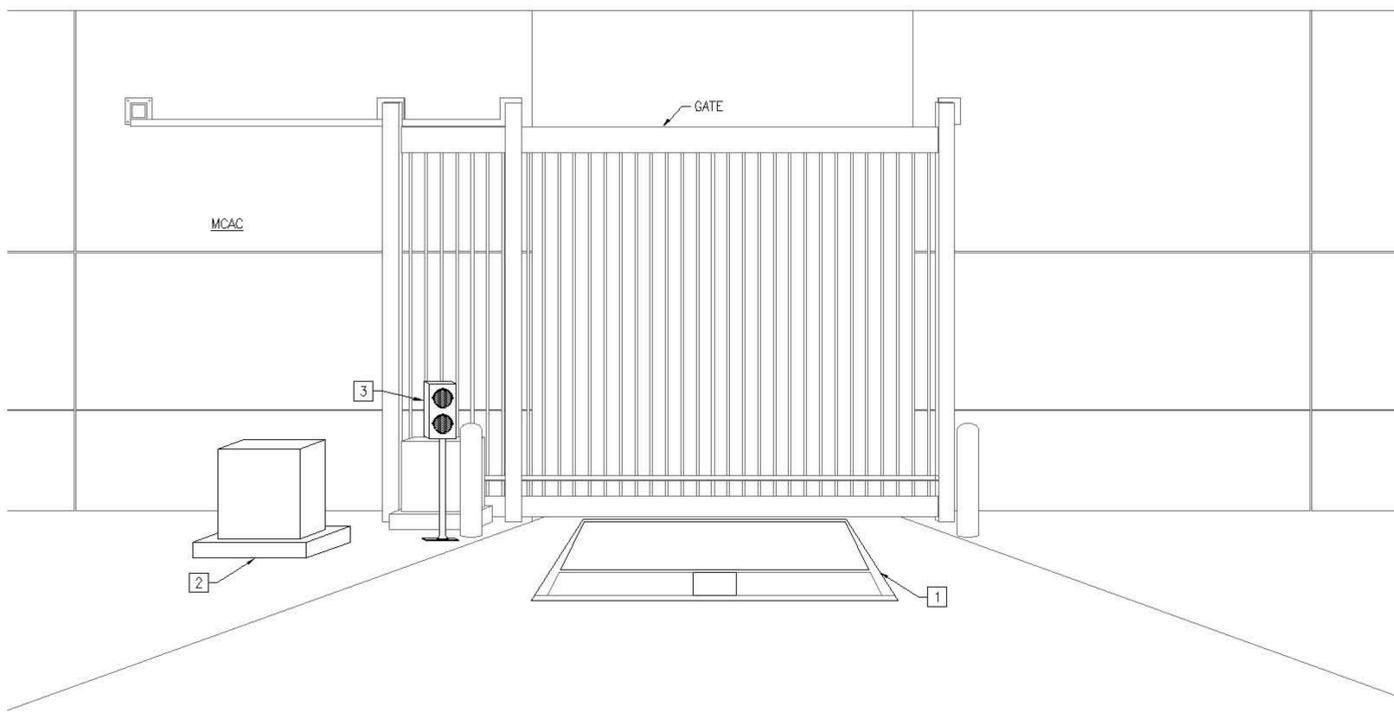


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2 MCAC BARRIER LAYOUT - ELEVATION - EXIT
 SY2.02D SY2.04D SCALE: NONE

DRAWING TITLE
**MCAC BARRIER LAYOUT ELEVATION
 DEMOLITION**

PHASE
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DWG FILE NAME
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DRAWING SCALE
 AS NOTED

PROJECT NUMBER
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DRAWN BY
 WFC

DRAWING NUMBER
SY2.04D

DESIGNED BY
 RH

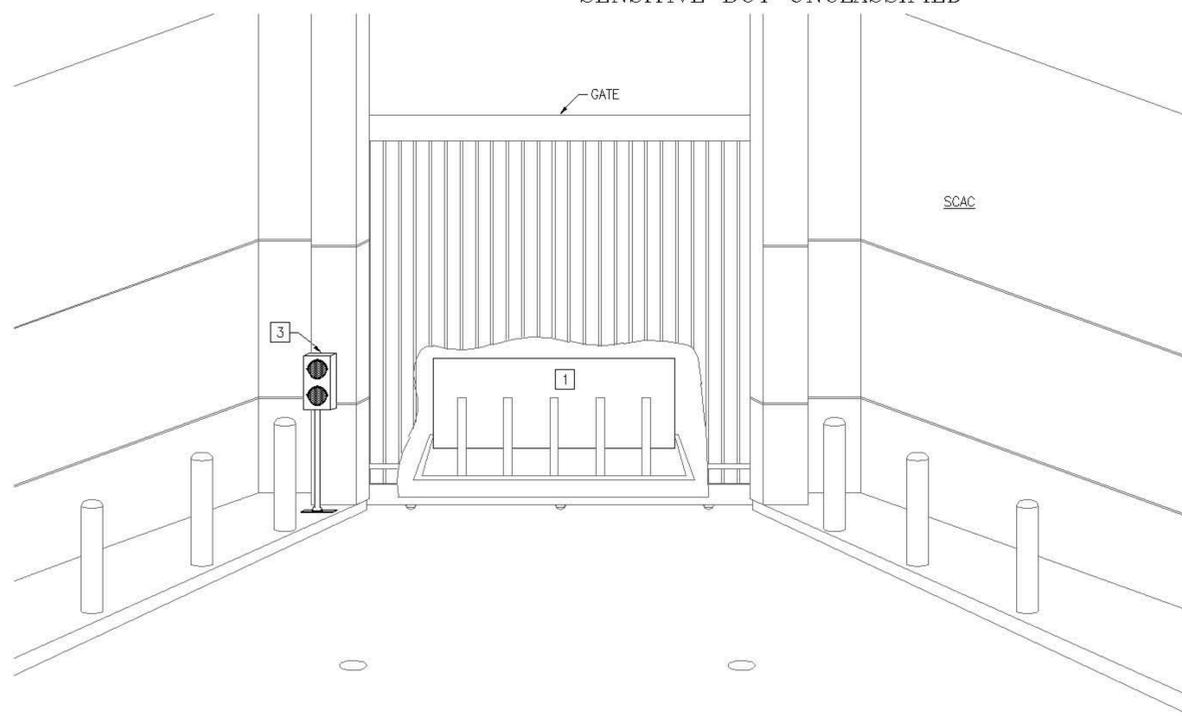
SHEET 10 OF 16

DATE
 11/05/12

CLASSIFICATION
 SENSITIVE BUT UNCLASSIFIED

REV.

SENSITIVE BUT UNCLASSIFIED



1 SCAC BARRIER LAYOUT – ELEVATION – ENTRANCE
 SY2.03D/SY2.05D SCALE: NONE

DRAWING NOTES

1. REFER TO DRAWING SY1.03 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO DRAWING SECTION 5 FOR EQUIPMENT INSTALLATION DETAILS.
3. REFER TO DRAWING SECTION 6 FOR THE EQUIPMENT SCHEDULES.

DRAWING KEY NOTES

- 1 REMOVE EXISTING NORSHIELD BARRIER (NOR-82).
- 2 REMOVE EXISTING HPU AND PAD.
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DRAWING TITLE
**SCAC BARRIER LAYOUT ELEVATION
 DEMOLITION**

PHASE
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DWG FILE NAME
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 AS NOTED

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DRAWN BY
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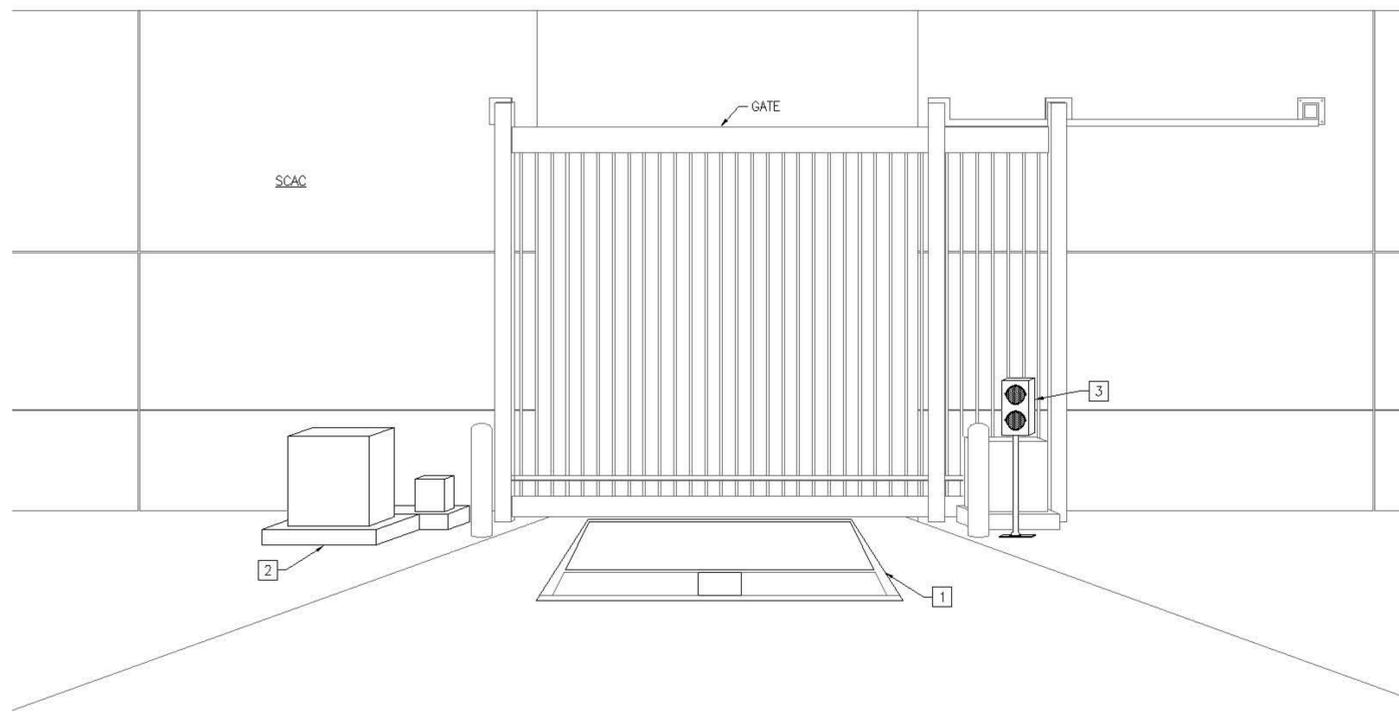
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SHEET 11 OF 16

REV.

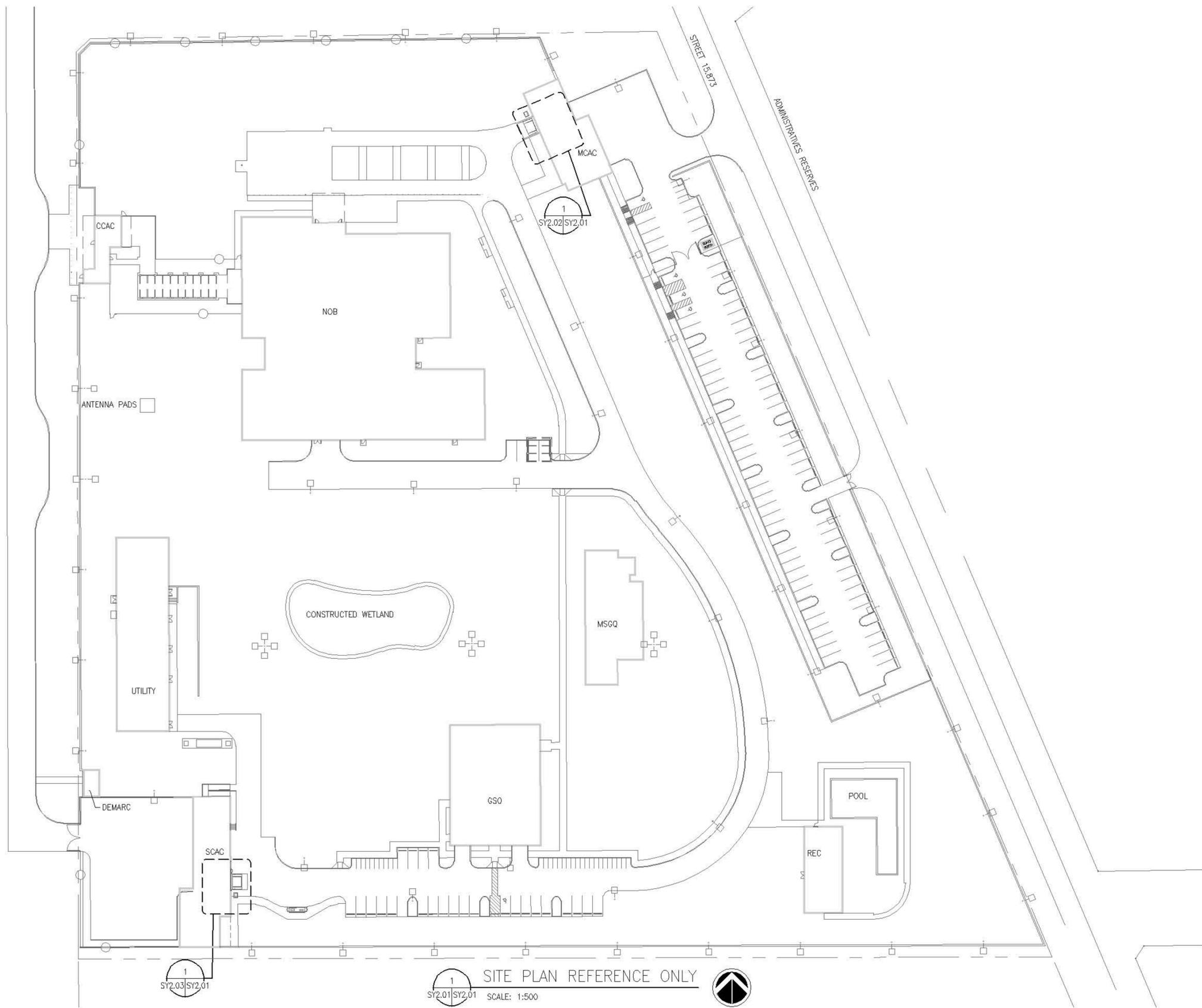
SENSITIVE BUT UNCLASSIFIED



2 SCAC BARRIER LAYOUT – ELEVATION – EXIT
 SY2.03D/SY2.05D SCALE: NONE

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SITE PLAN REFERENCE ONLY

SCALE: 1:500

SENSITIVE BUT UNCLASSIFIED

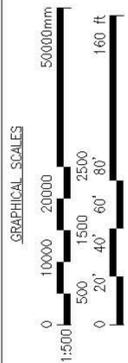


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**BARRIER SYSTEM
 UPGRADE**
 for
OUAGADOUGOU, BURKINA FASO

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KEY PLAN



SITE PLAN
REFERENCE ONLY

PHASE
 30% 60% 90% 100% AS-BUILT

DRAWING TITLE

DWG FILE NAME

OUAD201.dwg

DRAWING SCALE

AS NOTED

PROJECT NUMBER

PME11-13-05

DRAWN BY

WFC

DESIGNED BY

RH

DATE

11/05/12

CLASSIFICATION

SENSITIVE BUT UNCLASSIFIED

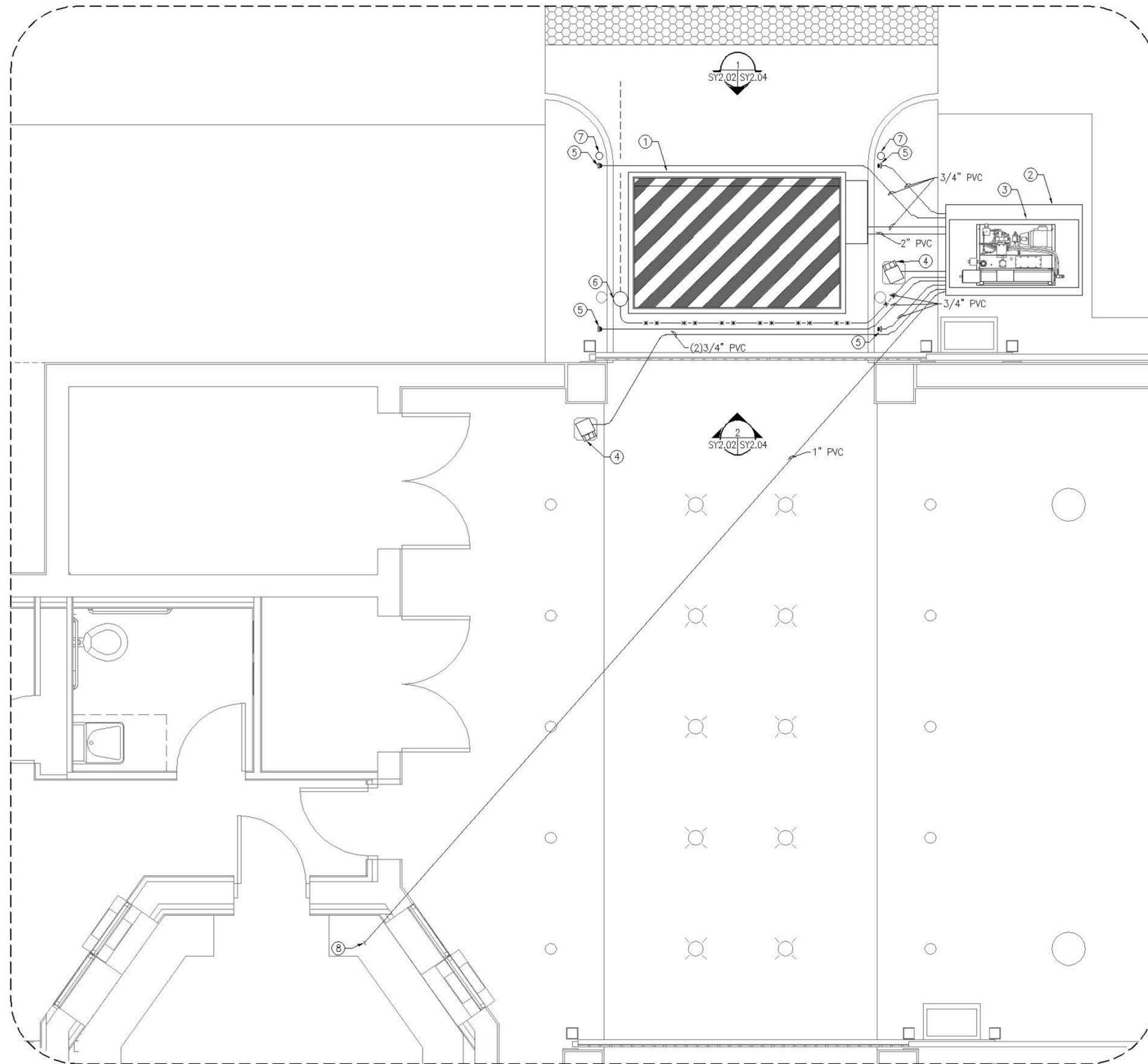
DRAWING NUMBER

SY2.01

SHEET 12 OF 16

REV.

SENSITIVE BUT UNCLASSIFIED



1 SITE PARTIAL PLAN - MCAC GATE
 SY2.01|SY2.02 SCALE: 1:30

SENSITIVE BUT UNCLASSIFIED

DRAWING NOTES

1. REFER TO DRAWING SY1.03 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO DRAWING SECTION 4 FOR THE RISER DIAGRAM AND EQUIPMENT WIRING DIAGRAMS.
3. REFER TO DRAWING SECTION 5 FOR EQUIPMENT INSTALLATION DETAILS.
4. REFER TO DRAWING SECTION 6 FOR THE EQUIPMENT SCHEDULES.

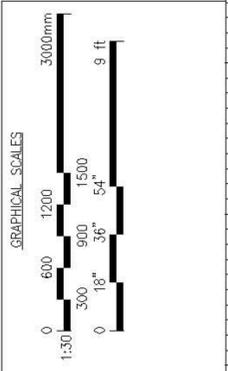
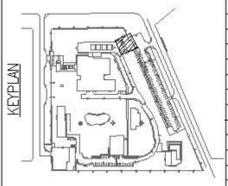
DRAWING KEY NOTES

- ① INSTALL NEW DSC207S BARRIER SYSTEM.
- ② INSTALL 4' x 6' x 6" CONCRETE PAD.
- ③ INSTALL NEW HPU.
- ④ INSTALL NEW TRAFFIC LIGHT. (2 PLACES)
- ⑤ INSTALL NEW PHOTO-ELECTRONIC EYE. (4 PLACES)
- ⑥ INSTALL NEW SUMP PUMP. LOCATION TO BE DETERMINED BASED UPON LOCATION OF SEWER LINE.
- ⑦ INSTALL NEW 4" POST TO PROTECT PHOTO-ELECTRONIC EYES. (2 PLACES)
- ⑧ CONTROL LINE CONTINUES TO EQUIPMENT RACK IN MCAC.



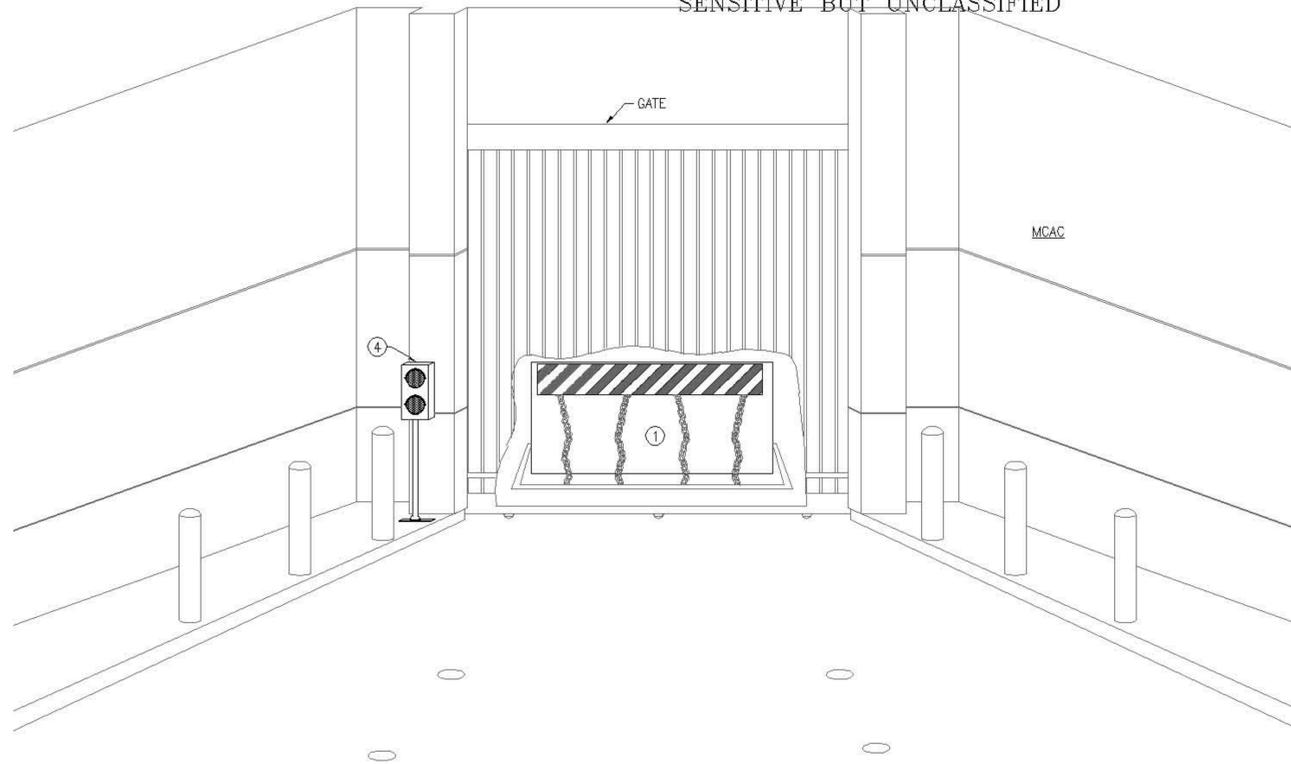
**BARRIER SYSTEM
 UPGRADE
 for
 OUAGADOUGOU, BURKINA FASO**

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DRAWING TITLE	
SITE PARTIAL PLAN - MCAC GATE NEW WORK	
PHASE	
<input type="checkbox"/> 30%	<input type="checkbox"/> 60% <input type="checkbox"/> 90% <input type="checkbox"/> 100% <input type="checkbox"/> AS-BUILT
DWG FILE NAME	
OUAD202.dwg	
DRAWING SCALE	
AS NOTED	
PROJECT NUMBER	
PME11-13-05	
DRAWN BY	DRAWING NUMBER
WFC	SY2.02
DESIGNED BY	SHEET 13 OF 16
RH	
DATE	REV.
11/05/12	
CLASSIFICATION	
SENSITIVE BUT UNCLASSIFIED	

SENSITIVE BUT UNCLASSIFIED



1 MCAC BARRIER LAYOUT - ELEVATION - ENTRANCE
 SY2.02 SY2.04 SCALE: NONE

DRAWING NOTES

1. REFER TO DRAWING SY1.03 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO DRAWING SECTION 4 FOR THE RISER DIAGRAM AND EQUIPMENT WIRING DIAGRAMS.
3. REFER TO DRAWING SECTION 5 FOR EQUIPMENT INSTALLATION DETAILS.
4. REFER TO DRAWING SECTION 6 FOR THE EQUIPMENT SCHEDULES.

DRAWING KEY NOTES

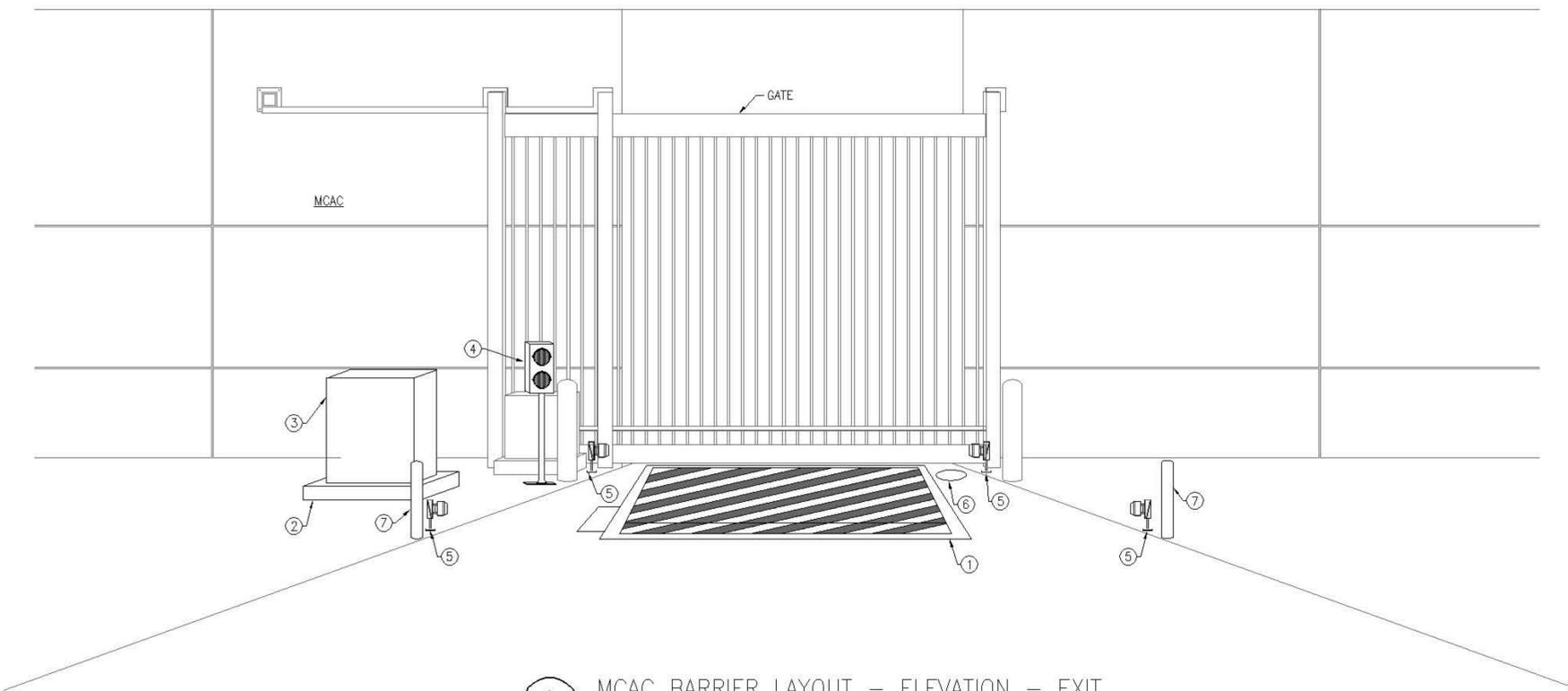
1. INSTALL NEW DSC207S BARRIER SYSTEM.
2. INSTALL 4' x 6' x 6" CONCRETE PAD.
3. INSTALL NEW HPU.
4. INSTALL NEW TRAFFIC LIGHT. (2 PLACES)
5. INSTALL NEW PHOTO-ELECTRONIC EYE. (4 PLACES)
6. INSTALL NEW SUMP PUMP. LOCATION TO BE DETERMINED BASED UPON LOCATION OF SEWER LINE.
7. INSTALL NEW 4" POST TO PROTECT PHOTO-ELECTRONIC EYES. (2 PLACES)



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**BARRIER SYSTEM
 UPGRADE
 for
 OUAGADOUGOU, BURKINA FASO**

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2 MCAC BARRIER LAYOUT - ELEVATION - EXIT
 SY2.02 SY2.04 SCALE: NONE

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DRAWING TITLE
**MCAC BARRIER LAYOUT ELEVATION
 NEW WORK**

PHASE
 30% 60% 90% 100% AS-BUILT

DWG FILE NAME

OUA204.dwg

DRAWING SCALE

AS NOTED

PROJECT NUMBER

PME11-13-05

DRAWN BY

WFC

DESIGNED BY

RH

DATE

11/05/12

DRAWING NUMBER

SY2.04

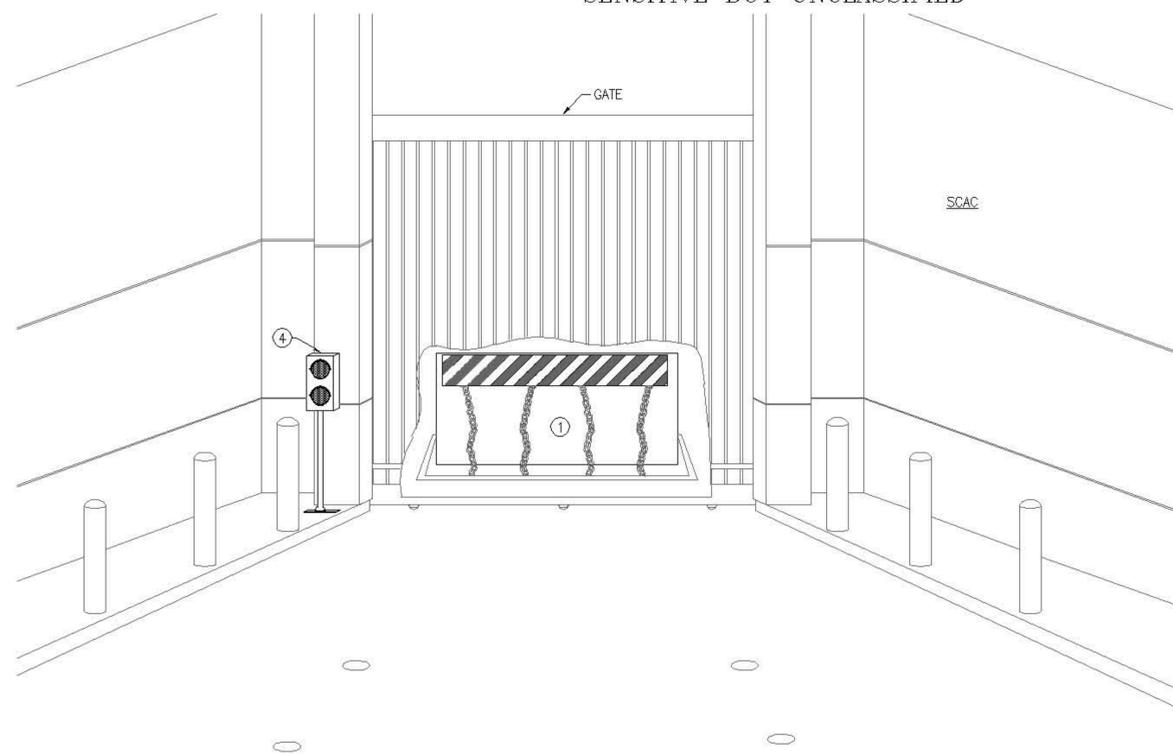
SHEET 15 OF 16

CLASSIFICATION

SENSITIVE BUT UNCLASSIFIED

REV.

SENSITIVE BUT UNCLASSIFIED



1 SCAC BARRIER LAYOUT - ELEVATION - ENTRANCE
 SY2.03/SY2.05 SCALE: NONE

DRAWING NOTES

1. REFER TO DRAWING SY1.03 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO DRAWING SECTION 4 FOR THE RISER DIAGRAM AND EQUIPMENT WIRING DIAGRAMS.
3. REFER TO DRAWING SECTION 5 FOR EQUIPMENT INSTALLATION DETAILS.
4. REFER TO DRAWING SECTION 6 FOR THE EQUIPMENT SCHEDULES.

DRAWING KEY NOTES

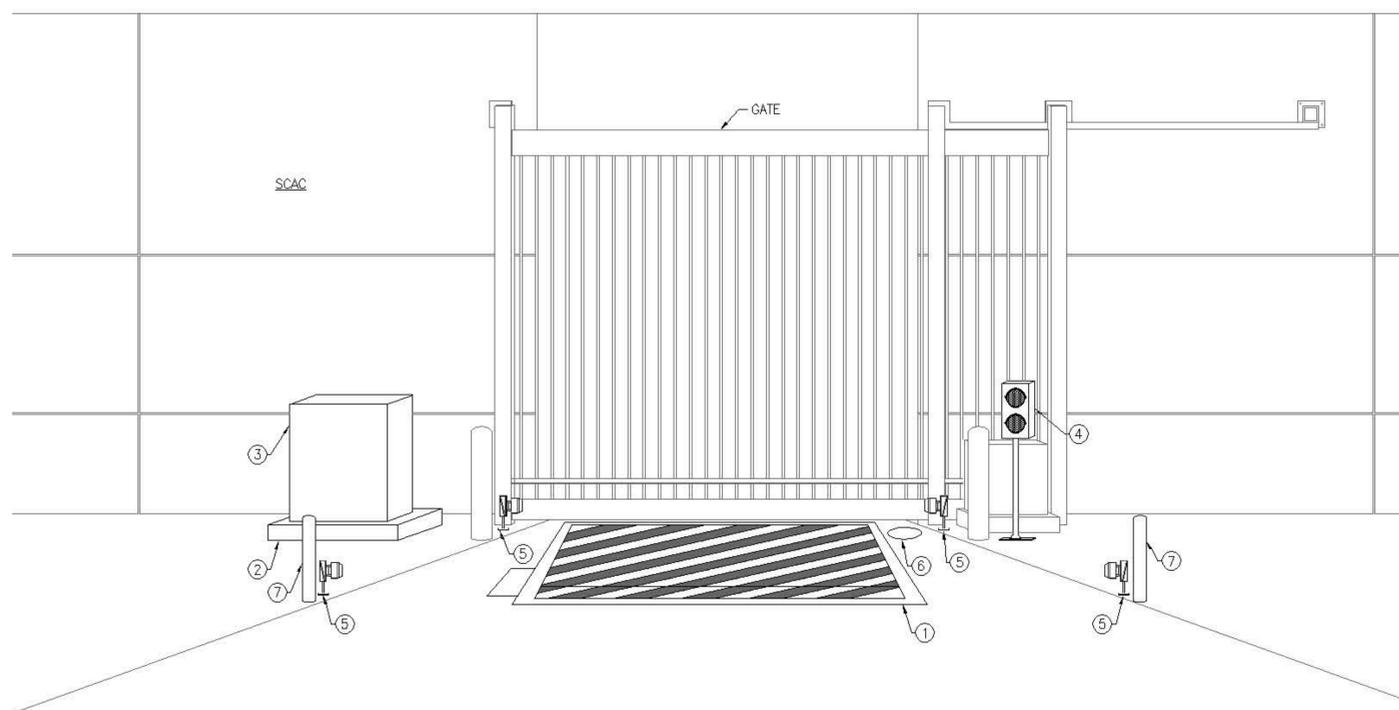
1. INSTALL NEW DSC207S BARRIER SYSTEM.
2. INSTALL 4' x 6' x 6" CONCRETE PAD.
3. INSTALL NEW HPU.
4. INSTALL NEW TRAFFIC LIGHT. (2 PLACES)
5. INSTALL NEW PHOTO-ELECTRONIC EYE. (4 PLACES)
6. INSTALL NEW SUMP PUMP. LOCATION TO BE DETERMINED BASED UPON LOCATION OF SEWER LINE.
7. INSTALL NEW 4" POST TO PROTECT PHOTO-ELECTRONIC EYES. (2 PLACES)



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2 SCAC BARRIER LAYOUT - ELEVATION - EXIT
 SY2.03/SY2.05 SCALE: NONE

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DRAWING TITLE		SCAC BARRIER LAYOUT ELEVATION NEW WORK	
DWD FILE NAME		OUA205.dwg	
DRAWING SCALE		AS NOTED	
PROJECT NUMBER		PME11-13-05	
DRAWN BY	DESIGNED BY	DRAWING NUMBER	SY2.05
WFC	RH	DATE	11/05/12
CLASSIFICATION		SENSITIVE BUT UNCLASSIFIED	
SHEET		16 OF 16	
PHASE		<input type="checkbox"/> 30% <input checked="" type="checkbox"/> 60% <input type="checkbox"/> 90% <input type="checkbox"/> 100% <input type="checkbox"/> AS-BUILT	