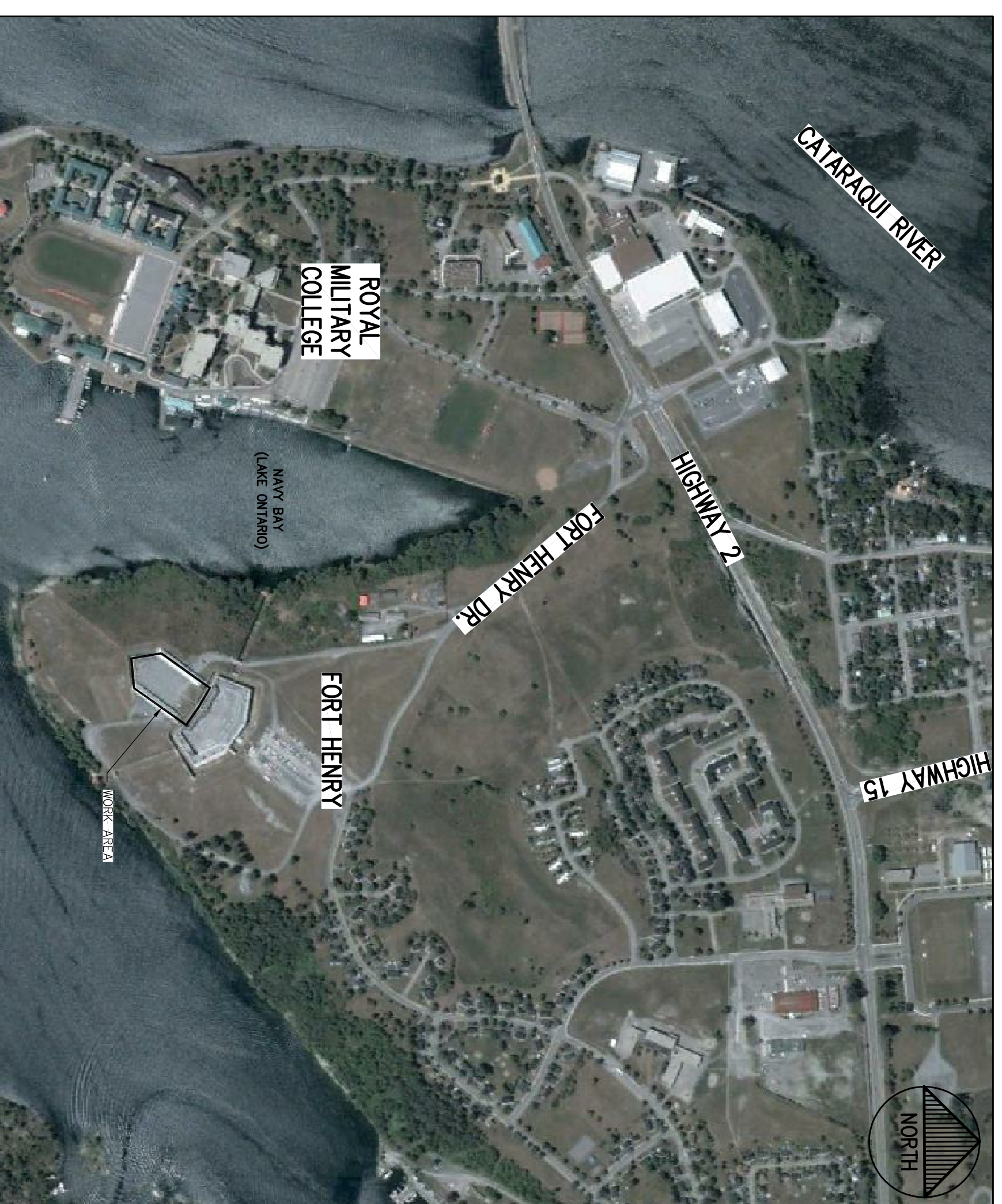


FORT HENRY ADVANCED BATTERY

PARADE SQUARE REPAVING, DRAINAGE UPGRADES AND UNDERGROUND UTILITIES REPLACEMENT

KEY PLAN

N.T.S.



DRAWING INDEX

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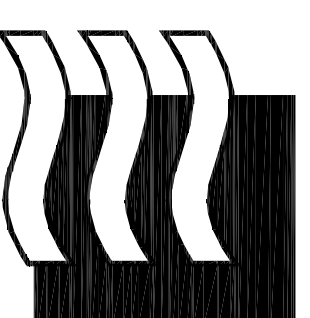


Parks
Canada

Parks
Canada



Canada



GENIVAR

GENIVAR INC.
 1224 GARDINERS ROAD, SUITE 201, KINGSTON, ON
 TEL: (613) 634-7373
 FAX: (613) 634-3523
 WEBSITE: www.genivar.com

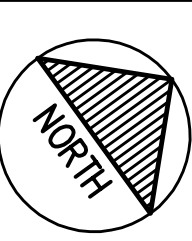
ISSUED FOR TENDER

DATE: AUGUST 7, 2013



CLIENT: Parks Canada
 PROJECT: FORT HENRY ADVANCED BATTERY, PARADE SQUARE REPAIRING, DRAINAGE UPGRADES AND UNDERGROUND UTILITIES REPLACEMENT

Canada



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DESIGNED FOR - REGION:
 SHEET NUMBER: C1.1
 SHEET # OF 5
 ISSUED FOR TENDER
 DATE: 08/07/2013

NO.	REV.	DATE	DESCRIPTION	DATE
01		08/07/2013	ISSUED FOR TENDER	AUGUST 2013

DESIGNED BY: KICLAWEI
 CHECKED BY: KICLAWEI
 DRAWN BY: KICLAWEI/STROSCOTT-RUMSEY
 WORKSHEET: [Redacted]

TITLE: WORK AREAS AND SCHEDULE PHASING
 DISCIPLINE: CIVIL

SCALE: C1.1
 1 OF 5
 ISSUED FOR TENDER
 DATE: 08/07/2013

- ### STAGING NOTES:
1. WORK AND/OR MOBILIZATION TO SITE IS NOT TO COMMENCE UNTIL AFTER SEPTEMBER 10, 2013.
 2. CONTRACTOR REQUIRED TO COMPLETE UTILITIES INSTALLATION BY NOVEMBER 15, 2013.
 3. ACCESS TO AND WEIGHT CONSTRAINTS: CONTRACTOR MAY PARK IN STAGING ZONE IN THE ADVANCED BATTERY IS TO BE LIMITED TO PASSENGER VEHICLES ONLY AND IS TO BE AVOIDED WHEREVER POSSIBLE.
 4. THE DEPARTMENT REPRESENTATIVE TAKES NO RESPONSIBILITY FOR THE CONDITION OF EXISTING ACCESS ROADS OR BRIDGES.
 5. ACCESS ROADS ARE NOT FOR THE CONTRACTORS SOLE USE. THE CONTRACTOR SHALL MAINTAIN AND MAKE GOOD ON ALL DAMAGES TO THE ROADWAY AND/OR BRIDGES AND ENTRANCES.
 6. EAST GATE - CONTRACTOR TO BE PROVIDED WITH RESTRICTION TO PUBLIC DURING CONSTRUCTION. CONTRACTOR TO BE RESPONSIBLE FOR THE CONDITION OF EXISTING ACCESS ROADS AND ENTRANCES.
 7. NO POWER OR OTHER SERVICES ARE AVAILABLE IN STAGING AREAS.
 8. EROSION AND SEDIMENT CONTROL TO BE MAINTAINED THROUGHOUT DURATION OF CONTRACT FOR ALL OPEN TRENCHES THAT CROSS PEDESTRIAN WALKWAYS. A BOARDWALK AND RAMP MUST BE INSTALLED AND BE WHEEL CHAIR ACCESSIBLE.
 9. FOR ALL OPEN TRENCHES THAT CROSS PEDESTRIAN WALKWAYS A BOARDWALK AND RAMP MUST BE INSTALLED AND BE WHEEL CHAIR ACCESSIBLE.
 10. REGULAR WORKING HOURS SHALL BE BETWEEN 08:00 AM AND 04:00 PM. WORK OUTSIDE OF REGULAR HOURS TO BE APPROVED BY DEPARTMENT REPRESENTATIVE.
 11. STAGING ZONES ARE FOR TEMPORARY STORAGE AND TRANSPORTATION PURPOSES ONLY. CONTRACTOR MAY PARK IN STAGING ZONE IN THE ADVANCED BATTERY IS TO BE LIMITED TO PASSENGER VEHICLES ONLY AND IS TO BE AVOIDED WHEREVER POSSIBLE.
 12. CONTRACTOR MUST PROVIDE OWN SANITARY USED LINES APPROVED BY DEPARTMENT REPRESENTATIVE.
 13. FOOT IS OPEN TO THE PUBLIC DURING CONSTRUCTION. A MINIMUM 3m WIDE ACCESS ROUTE IS TO BE MAINTAINED DURING ALL PERIODS OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN AND MAKE GOOD ON ALL DAMAGES TO THE ROADWAY AND/OR BRIDGES AND ENTRANCES.
 14. EAST GATE - CONTRACTOR TO BE PROVIDED WITH RESTRICTION TO PUBLIC DURING CONSTRUCTION. CONTRACTOR TO BE RESPONSIBLE FOR THE CONDITION OF EXISTING ACCESS ROADS AND ENTRANCES.
 15. CONTRACTOR MUST PROVIDE OWN SANITARY USED LINES APPROVED BY DEPARTMENT REPRESENTATIVE.



PICTURE OF EAST ENTRANCE
 C1.1



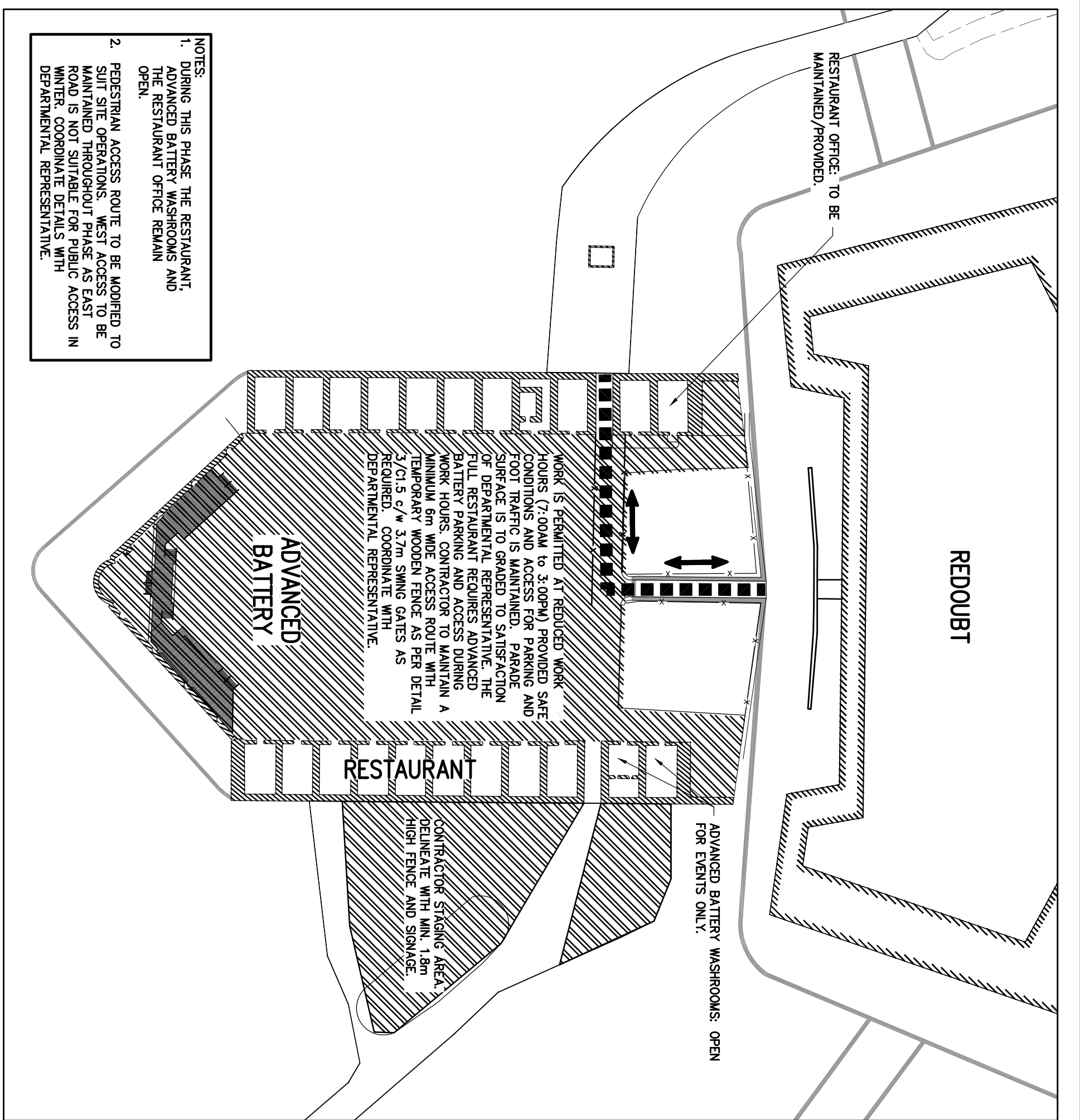
PICTURE OF WEST ENTRANCE
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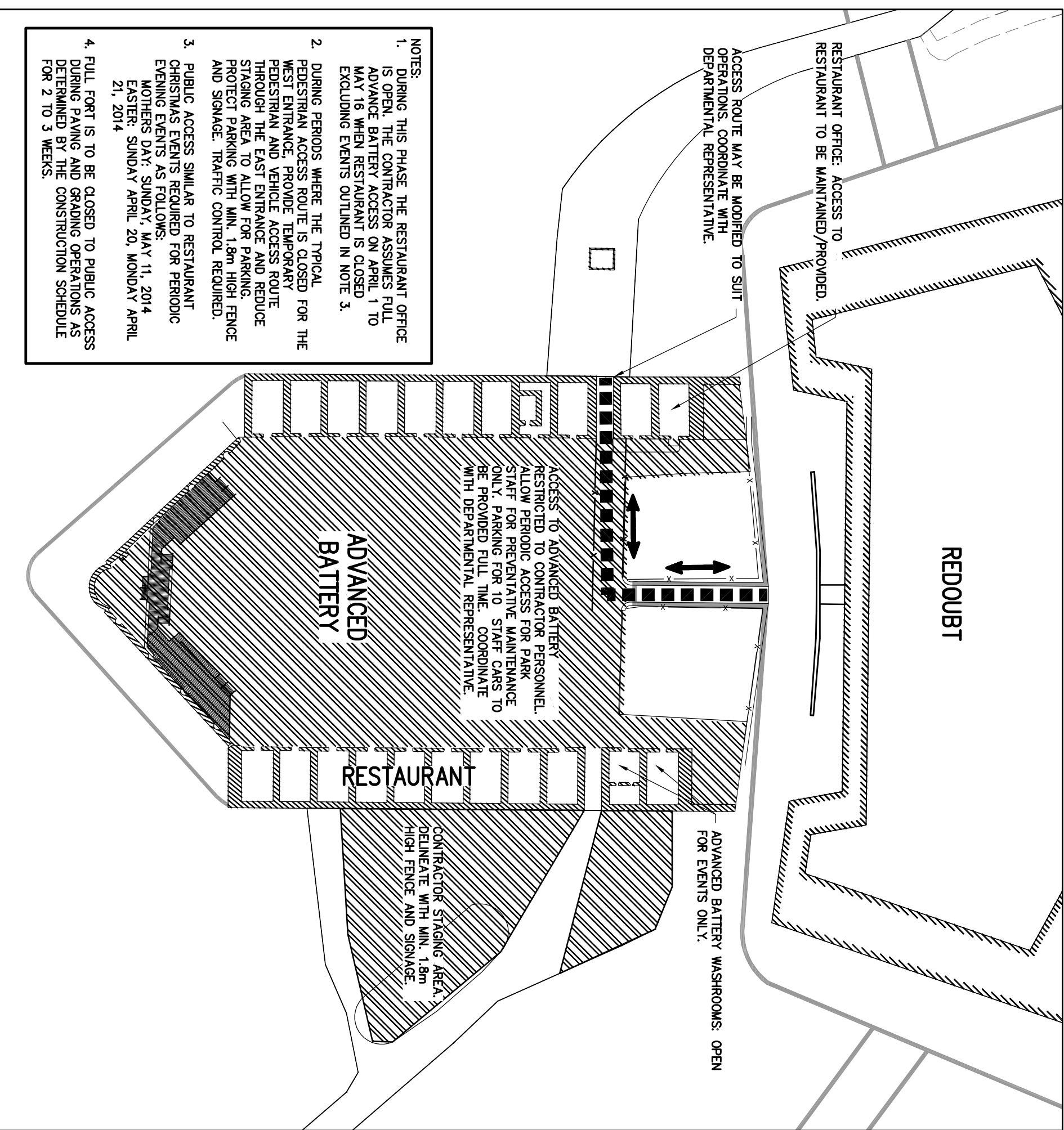
PICTURE OF ENTRANCE CUT
 C1.1



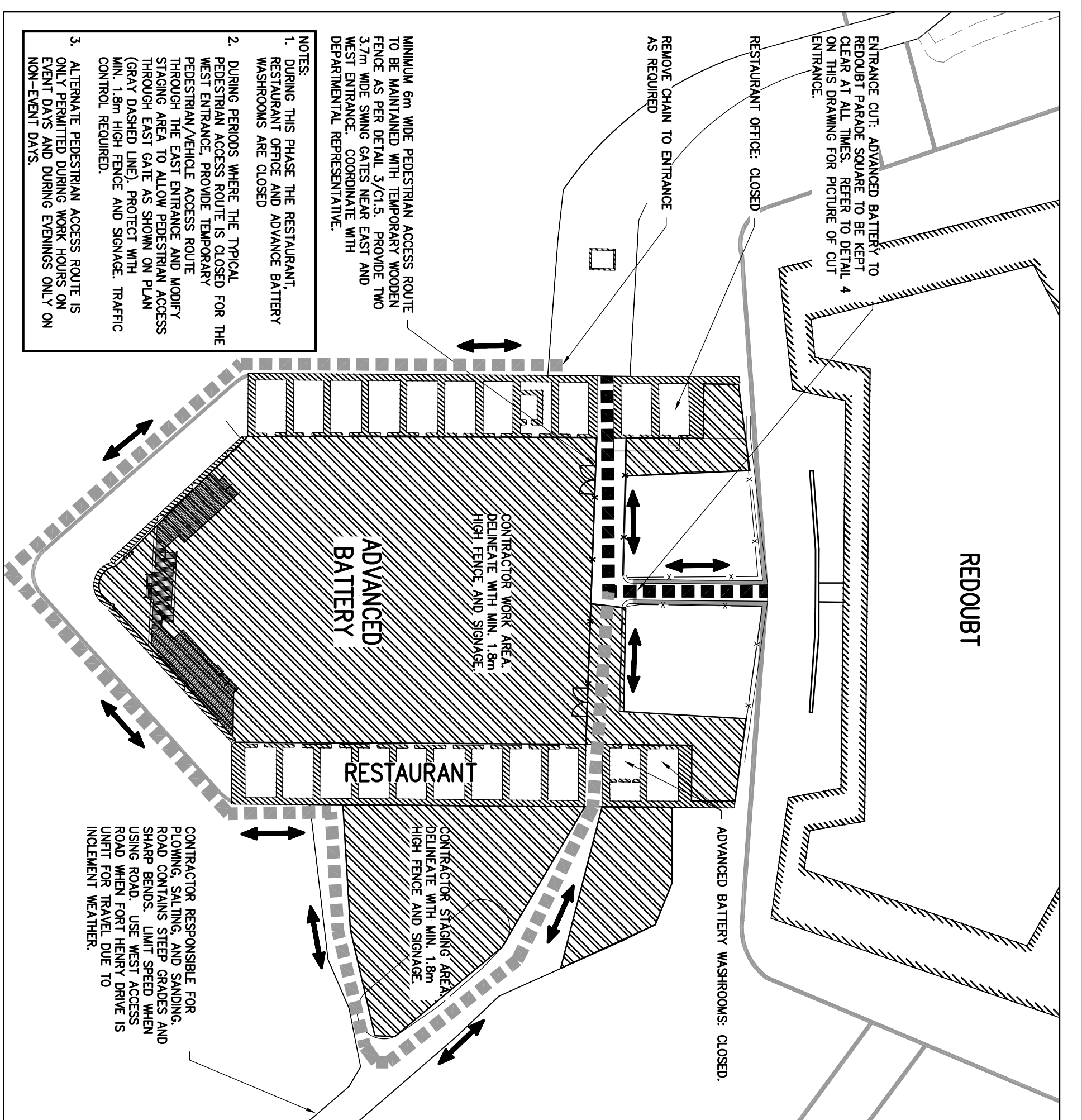
PICTURE OF ADVANCED BATTERY LOOKING SOUTH
 N.T.S.



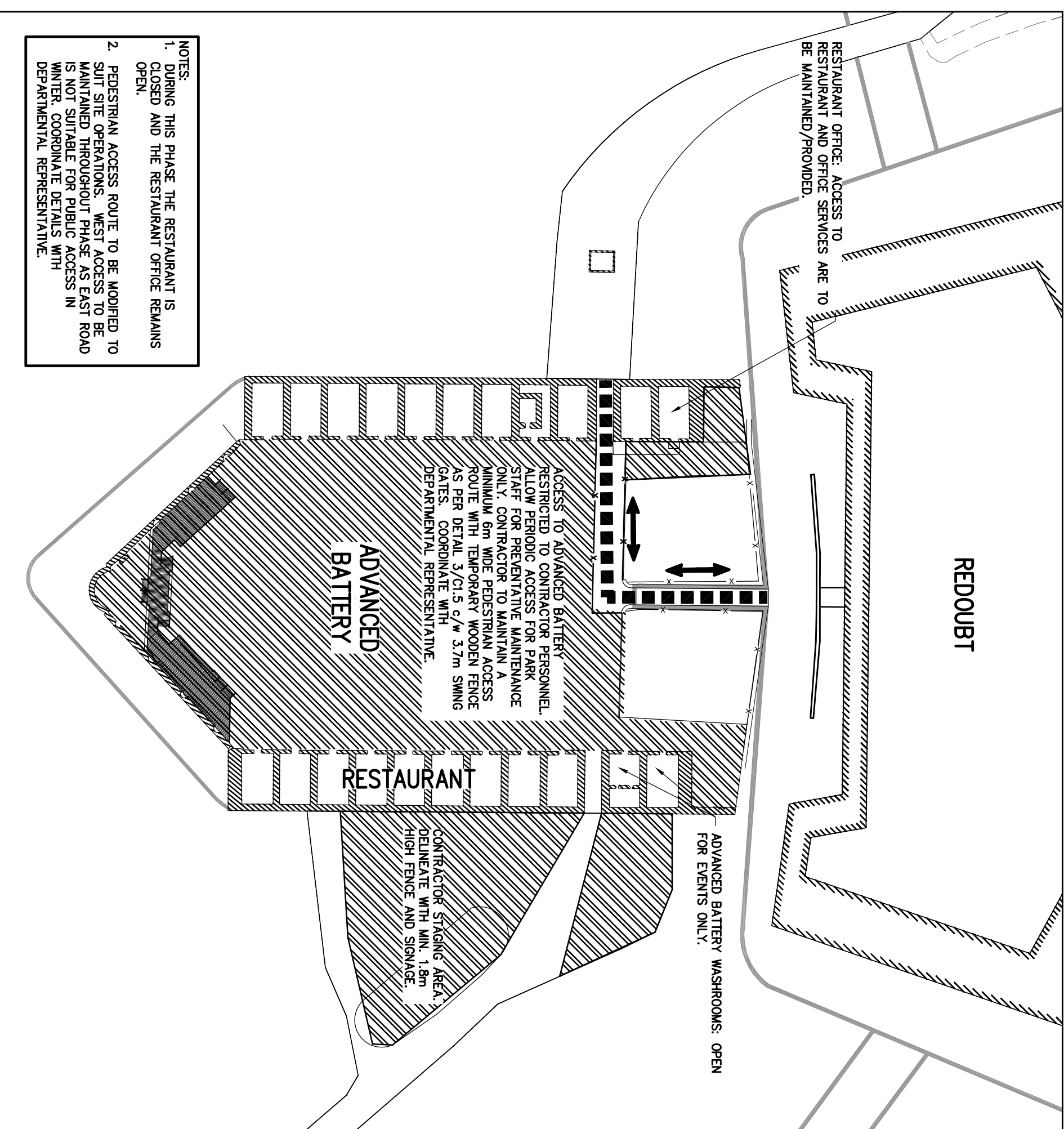
1 EQUIPMENT RESTRICTIONS AND PEDESTRIAN ACCESS FROM START TO NOVEMBER 15, 2013 (TYPICAL ACCESS ROUTE)
 SCALE: 1:750



2 EQUIPMENT RESTRICTIONS AND PEDESTRIAN ACCESS FROM JANUARY 5 TO FEBRUARY 28, 2014 (TYPICAL ACCESS ROUTE)
 SCALE: 1:750



3 EQUIPMENT RESTRICTIONS AND PEDESTRIAN ACCESS FROM JANUARY 5 TO FEBRUARY 28, 2014 (TYPICAL ACCESS ROUTE)
 SCALE: 1:750

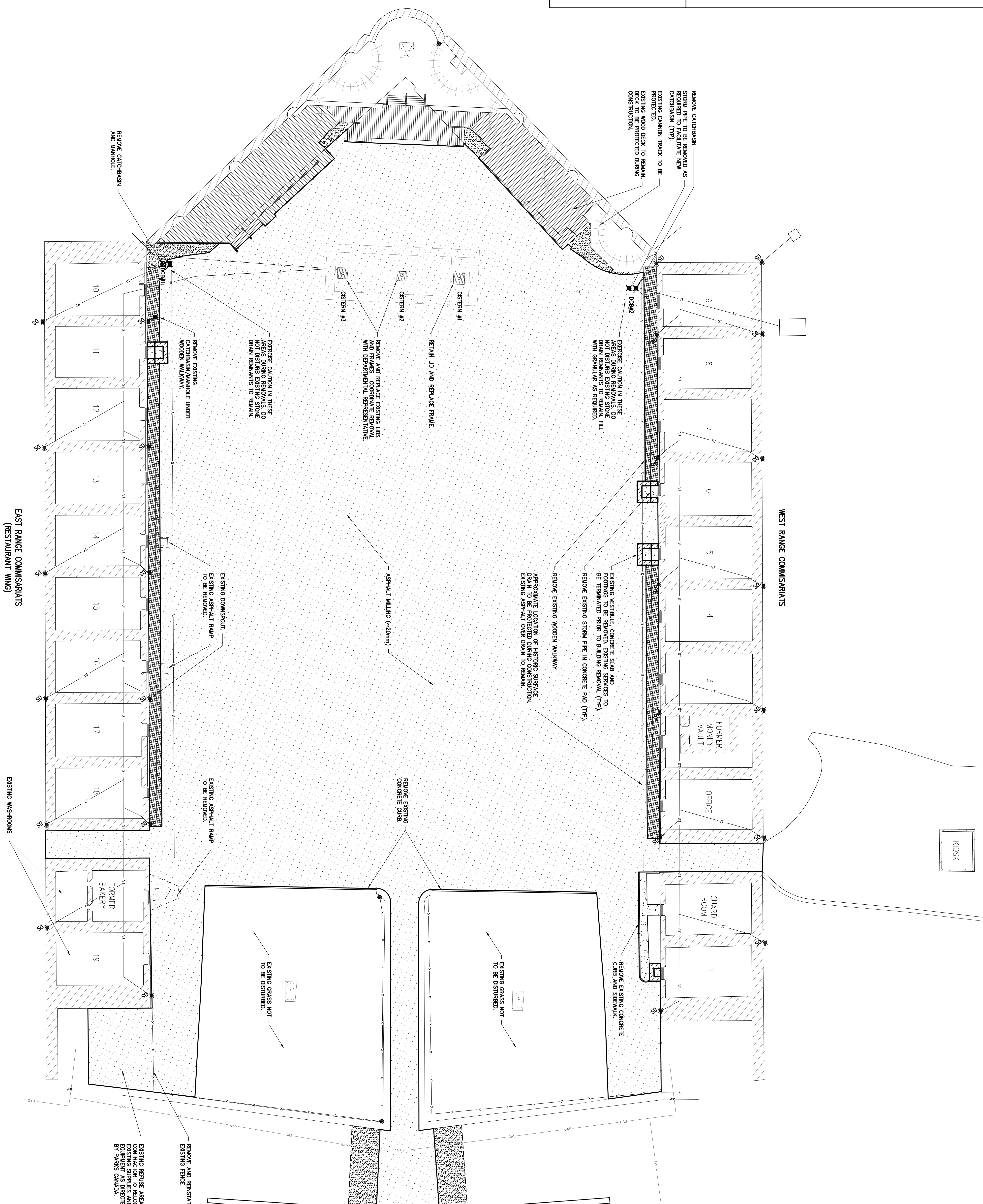


LEGEND:

	EDGE OF PAVEMENT REMOVAL
	CURB REMOVAL
	SEWER/PAV REMOVAL
	EXISTING REMAINING WALL
	EXISTING FENCE
	EXISTING TOP OF SLOPE
	EXISTING STORM SEWER
	STORM SEWER REMOVAL
	EXISTING SURFACE DRAIN
	EXISTING STORM WATER CISTERN
	EXISTING GAS
	WOODEN WALKWAY REMOVAL
	GRANULAR REMOVAL
	EXISTING STORM MANHOLE
	STORM MANHOLE REMOVAL
	STORM CATCHBASIN REMOVAL
	EXISTING GAS VALVE
	EXISTING DOOR LOCATION
	EXISTING GRADE ELEVATION
	EXISTING BUILDING
	BUILDING REMOVAL
	ASPHALT MILLING (20mm)
	CONCRETE PAD/SEWER/PAV REMOVAL
	EXISTING WOODEN WALKWAY/DECK
	WOODEN WALKWAY REMOVAL
	GRANULAR REMOVAL
	CISTERN STONE SURROUND REMOVAL

GENERAL NOTES:

- EXISTING BUILDING AND UTILITIES TO BE PROTECTED UNLESS NOTED OTHERWISE. Limestone WALL TO BE PROTECTED AT ALL TIMES.
- CONTRACTOR TO VERIFY LOCATION OF ALL BURIED SERVICES PRIOR TO START OF CONSTRUCTION.
- TOPOGRAPHIC INFORMATION PROVIDED BY LESLIE M. HIGGINS SURVEYING LTD.
- CIVIL CONTRACTOR TO PROVIDE ALL EXCAVATION AND BACKFILLING FOR OTHER DIVISIONS AS REQUIRED.
- CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND CONTROL PLAN AS REQUIRED BY THE MUNICIPALITY AND CONSERVATION AUTHORITY.



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PROFESSIONAL ENGINEER
M. S. MORKEM
10012895
8/17/2013
PROVINCE OF ONTARIO

CLIENT:
Parks
Canada
Canada

Canada

CLIENT REF # 20029720 (PMH1-1-01)
PROJECT:
FORT HENRY ADVANCED
BATTERY, PARADE SQUARE
REPAIRING, DRAINAGE UPGRADES
AND UNDERGROUND UTILITIES
REPLACEMENT

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DATE: 08/07/2013
ISSUED FOR TENDER

NO.	REVISION	DATE	DESCRIPTION
01		08/07/2013	ISSUED FOR TENDER

PROJECT NO: 1111-21759-00
DATE: AUGUST 2013
ORIGINAL SCALE: 1:200
DESIGNED BY: K. CLAVET
DRAWN BY: S. THUSSOTT-RUMSEY
CHECKED BY: M. MORKEM

TITLE: CIVIL
SUBTITLE: REMOVALS

ISSUED FOR TENDER

SHEET # 2 OF 4
C1.2

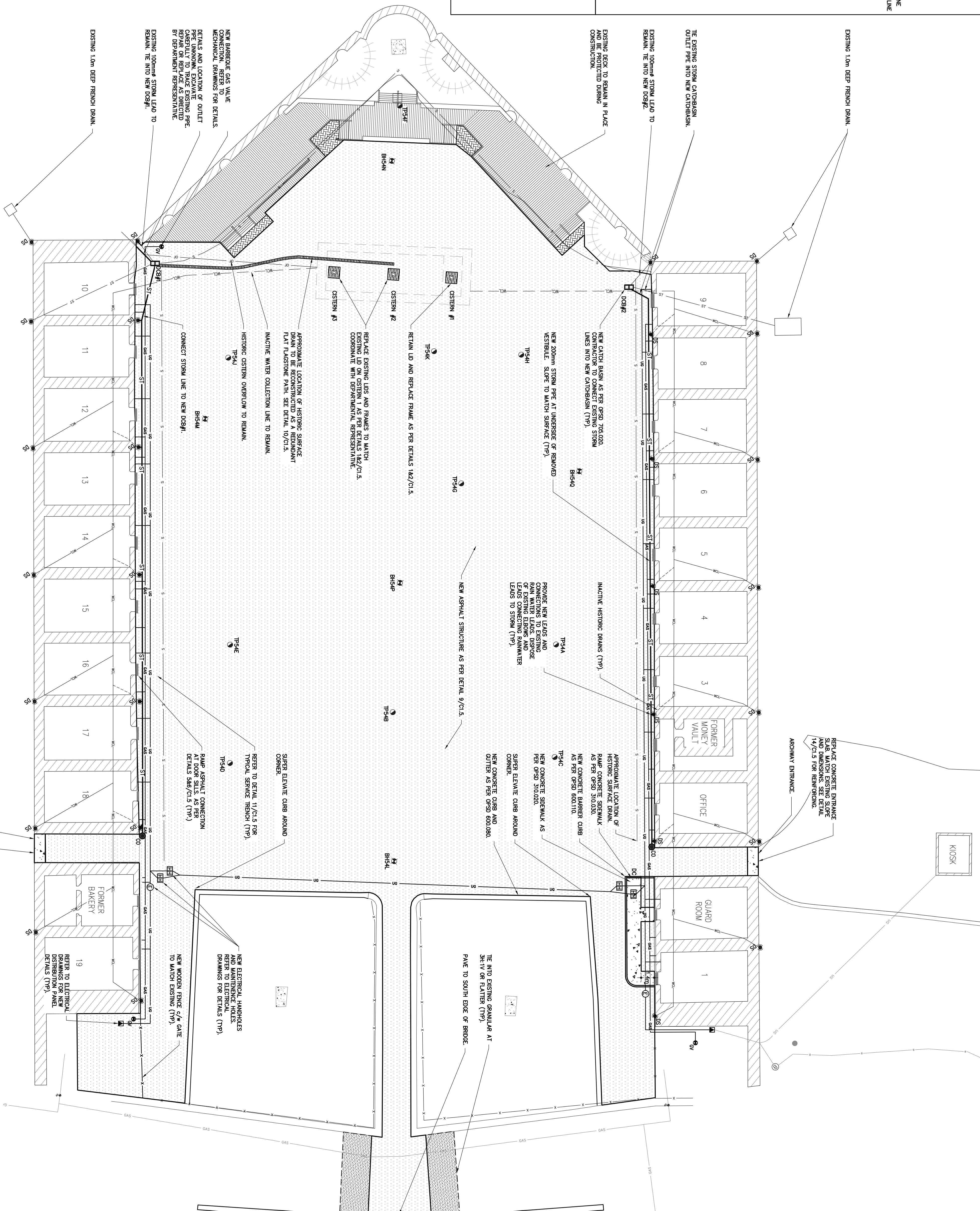
DATE: 08/07/2013

LEGEND:

- NEW EDGE OF PARAPET
- NEW CURB
- NEW SIDEWALK
- EXISTING RETAINING WALL
- EXISTING FENCE
- EXISTING TOP OF SLOPE
- EXISTING STORM SEWER
- NEW STORM SEWER
- EXISTING ACTIVE WATER COLLECTION LINE
- EXISTING INACTIVE WATER COLLECTION LINE
- EXISTING OVERTURN OVERFLOW LINE
- EXISTING HISTORIC SYSTEM
- EXISTING GAS
- NEW GAS
- EXISTING UNDERGROUND WIRES
- NEW UNDERGROUND WIRES
- NEW WOODEN WALKWAY/DECK
- EXISTING HISTORIC SURFACE DRAIN
- EXISTING STORM MANHOLE
- EXISTING STORM CATCHBASIN
- NEW STORM DOUBLE CATCHBASIN
- EXISTING DOWNSPOUT
- EXISTING GAS VALVE
- NEW GAS VALVE
- NEW ELECTRICAL HANGHOLE
- NEW ELECTRICAL MANHOLE
- NEW ELECTRICAL DISTRIBUTION PANEL
- EXISTING BARREROLE LOCATION
- 2011 ARCHAEOLOGICAL EXCAVATION
- EXISTING DOOR LOCATION
- EXISTING BUILDING
- NEW ASPHALT
- NEW CONCRETE PAD/SIDEWALK
- EXISTING WOODEN WALKWAY/DECK
- NEW GRANULAR
- NEW INTERLOCKING BRICK

GENERAL NOTES:

1. EXISTING BUILDING, DECK AND UTILITIES TO BE PROTECTED AND NOT TO BE DISTURBED UNLESS OTHERWISE SPECIFIED BY THE CONTRACTOR.
2. CONTRACTOR TO VERIFY LOCATION OF ALL BURIED SERVICES AND ELECTRICAL UTILITIES.
3. CONTRACTOR TO VERIFY LOCATION OF ALL BURIED SERVICES PRIOR TO START OF CONSTRUCTION.
4. TOPOGRAPHIC INFORMATION PROVIDED BY LESLIE M. HIGGINS SURVEYING LTD.
5. CIVIL CONTRACTOR TO PROVIDE ALL EXCAVATION AND BACKFILLING FOR OTHER DIVISIONS AS REQUIRED.
6. ALL DISTURBED AREA TO BE REINSTATED WITH TOPSOIL AND SOO UNLESS OTHERWISE NOTED.



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CONSULTANT:

CLIENT:
 Parks
 Canada

PROJECT:
 CLIENT REF # 20202920 (PM#1-01)

DATE: 08/07/2013

ISSUED FOR TENDER

DATE: 08/07/2013

Canada

FOR FORT HENRY ADVANCED
 BATTERY, PARADE SQUARE
 REPAIRING, DRAINAGE UPGRADES
 AND UNDERGROUND UTILITIES
 REPLACEMENT

DATE: 08/07/2013

ISSUED FOR TENDER

DATE: 08/07/2013

NO.	REVISION	DATE	DESCRIPTION
01		08/07/2013	ISSUED FOR TENDER

DESIGNED BY: K. CLAVET
 CHECKED BY: S. THOMAS-ROUSEY
 DRAWN BY: M. MORIKEN

DATE: AUGUST 2013

SCALE: 1:200

TITLE: CIVIL

SITE SERVICING

SHEET # C1.3
 OF 5

ISSUED FOR TENDER

DATE: 08/07/2013

LEGEND:

- NEW EDGE OF PARADENT
- NEW CURB
- NEW SIDEWALK
- EXISTING REMAINING WALL
- EXISTING FENCE
- EXISTING TOP OF SLOPE
- EXISTING HISTORIC CISTERN
- NEW WOODEN WALKWAY/DECK
- NEW GRADING HIGHPOINT
- NEW BREAK POINT
- EXISTING HISTORIC SURFACE DRAIN
- EXISTING STORM MANHOLE
- EXISTING STORM CATCHBASIN
- NEW STORM DOUBLE CATCHBASIN
- EXISTING DOWNSPOUT
- EXISTING GAS VALVE
- EXISTING BORERHOLE LOCATION
- 2011 ARCHAEOLOGICAL EXCAVATION
- EXISTING DOOR LOCATION
- NEW GRADE
- EXISTING GRADE
- EXISTING GROUND ELEVATION
- EXISTING GROUND ELEVATION
- EXISTING BUILDING
- NEW ASPHALT
- NEW CONCRETE PAD/SIDEWALK
- EXISTING WOODEN WALKWAY/DECK
- NEW GRANULAR
- EXISTING MANHOLE STONE SURROUND
- NEW INTERLOCKING BRICK

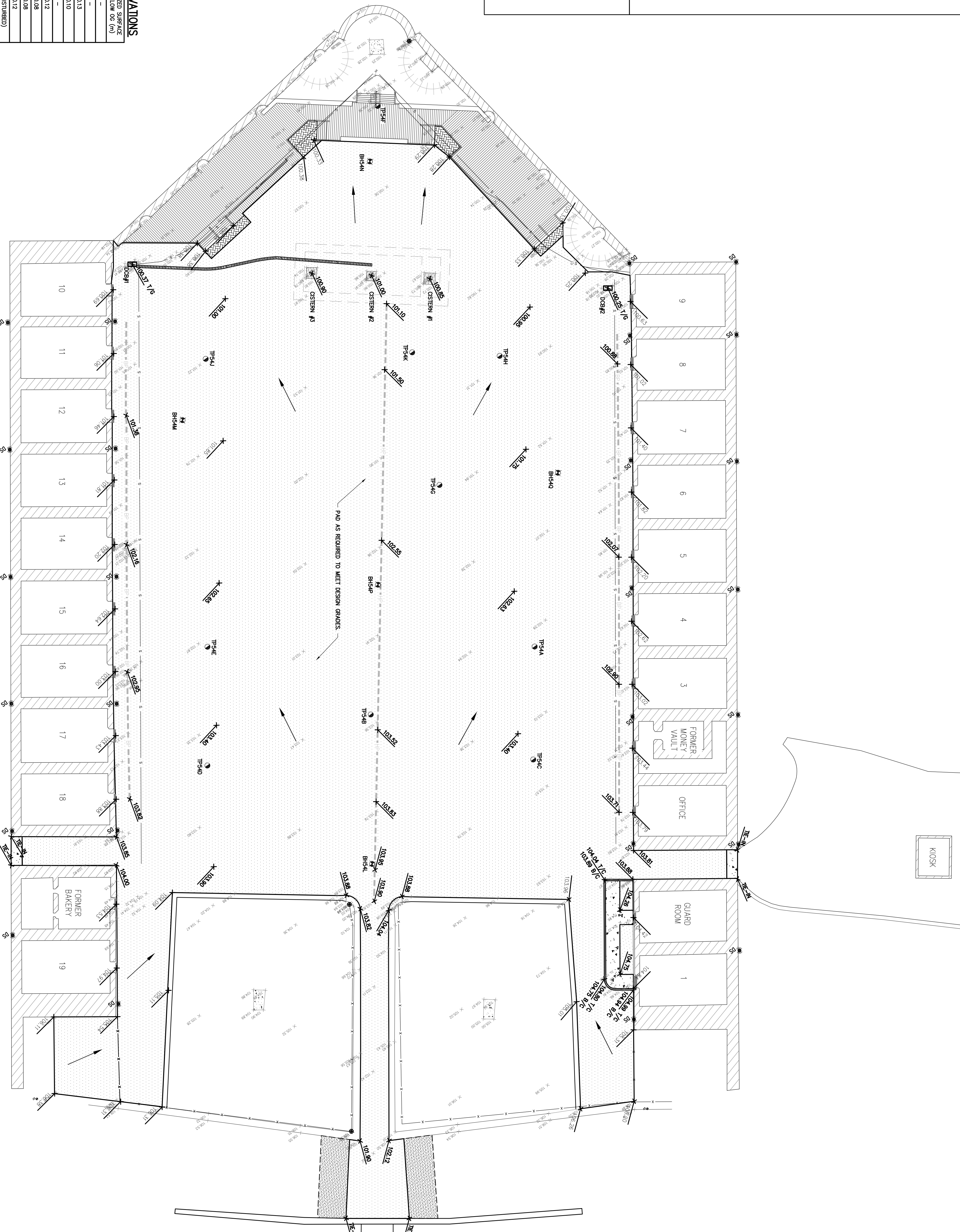
GENERAL NOTES:

1. EXISTING BUILDING DECK AND UTILITIES TO BE PROTECTED AND REMAINING WALL TO BE PROTECTED AT ALL TIMES.
2. CONTRACTOR TO PROVIDE SITE SERVICES WITH MECHANICAL AND ELECTRICAL DIVISIONS.
3. CONTRACTOR TO VERIFY LOCATION OF ALL BURIED SERVICES PRIOR TO START OF CONSTRUCTION.
4. TOPOGRAPHIC INFORMATION PROVIDED BY LESLIE M. HOBBSON SURVEYING LTD.
5. CIVIL CONTRACTOR TO PROVIDE ALL EXCAVATION AND BACKFILLING FOR OTHER DIVISIONS AS REQUIRED.
6. ALL DISTURBED AREA TO BE REINSTATED WITH TOPSOIL AND SOO UNLESS OTHERWISE NOTED.

BEDROCK/MACADAMIZED SURFACE ELEVATIONS

BH/TP #	OG ELEVATION (m)	BEDROCK DEPTH BELOW OG (m)	MACADAMIZED SURFACE DEPTH BELOW OG (m)
TP94A	102.786	>0.41	-
TP94B	103.320	0.60	-
TP94C	103.420	>1.10	0.13
TP94D	103.504	>0.20	0.10
TP94E	102.883	>0.40	-
TP94F	100.347	-	0.12
TP94G	101.959	-	0.08
TP94H	101.120	-	0.08
TP94J	101.189	-	0.12
TP94K	101.210	0.42 (GRANITE)	0.16 (DISTURBED)
BH94L	103.863	0.80	-
BH94M	101.499	0.25	-
BH94N	100.411	0.20	-
BH94P	102.803	1.80	-
BH94Q	101.885	0.28	-

NOTE: INFORMATION BASED ON PARADENT CANADA REG. FORT HENRY, N.S. 1. INFORMATION BASED ON PARADENT CANADA REG. FORT HENRY, N.S. 1. DATED MARCH 2012.



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LICENSED PROFESSIONAL ENGINEER
 M.S. MORHEM
 100122895
 8/7/2013
 PROVINCE OF ONTARIO

CLIENT:
 Parks
 Parks
 Canada

Canada

PROJECT:
 CLIENT REF. # 20020270 (PM#11-01)

**FORT HENRY ADVANCED
 BATTERY, PARADE SQUARE
 REPAIRING, DRAINAGE UPGRADES
 AND UNDERGROUND UTILITIES
 REPLACEMENT**

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SCALE:
 1:200

DATE:
 AUGUST 2013

ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
01	08/07/2013	ISSUED FOR TENDER

DESIGNED BY: **K. CAI**

DESIGNED BY: **S. THOMSON-ROUSEY**

CHECKED BY: **AMORHEN**

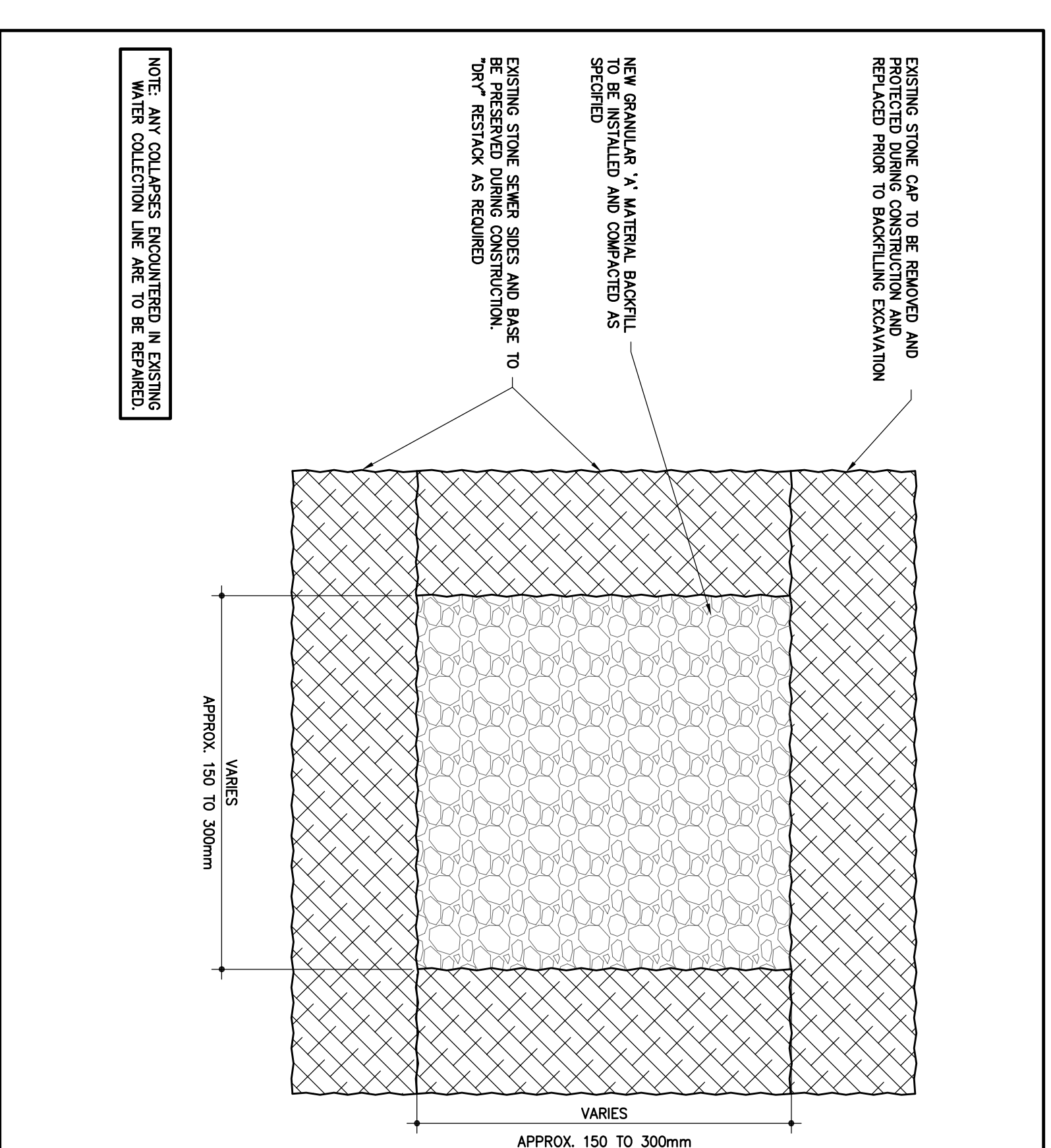
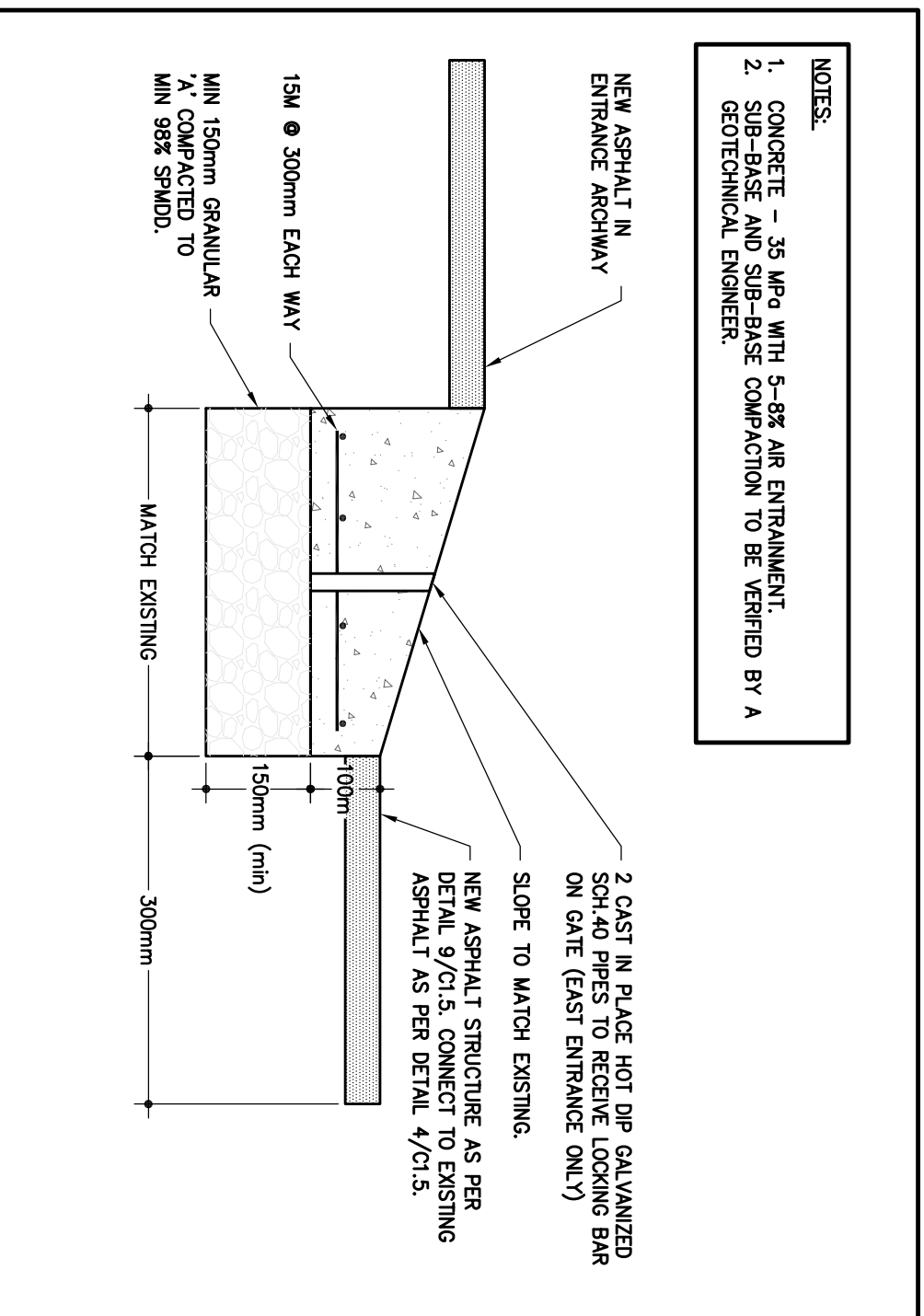
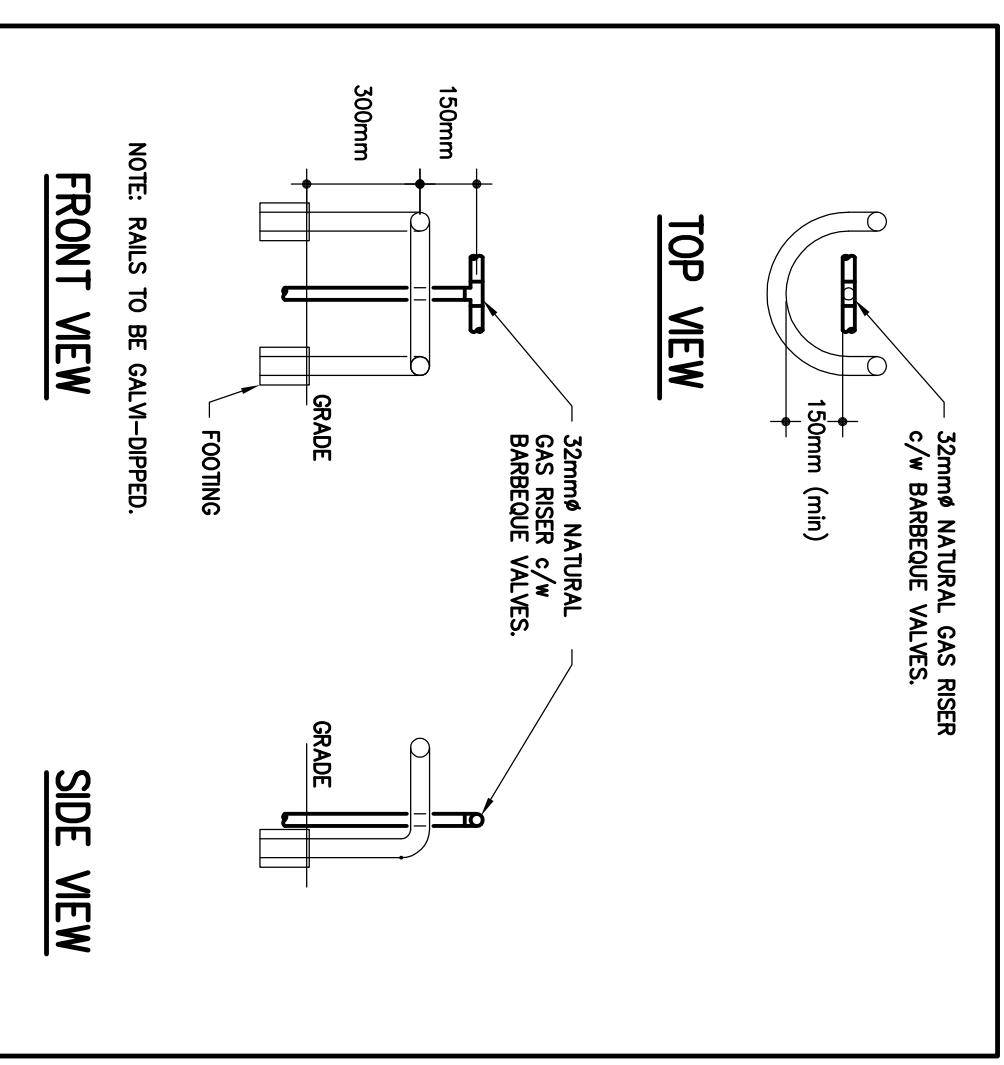
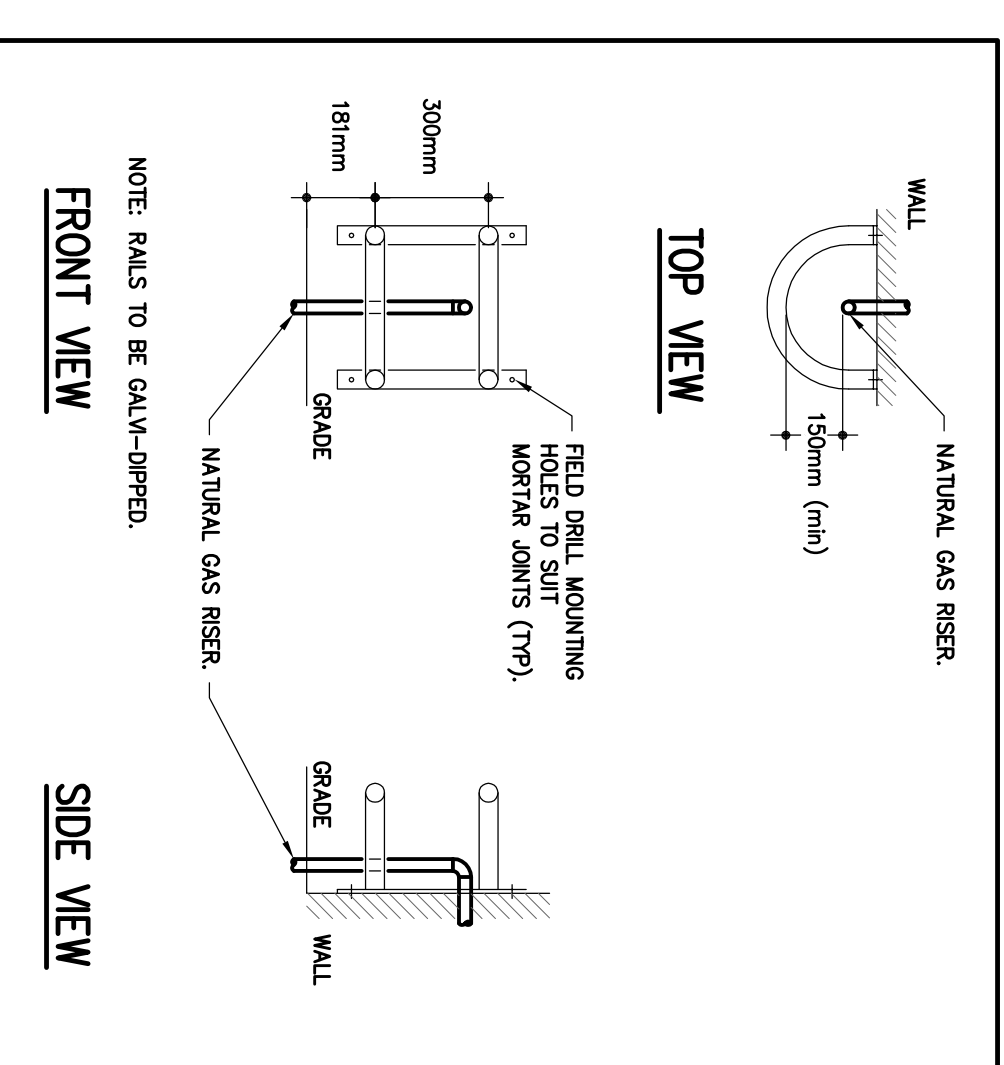
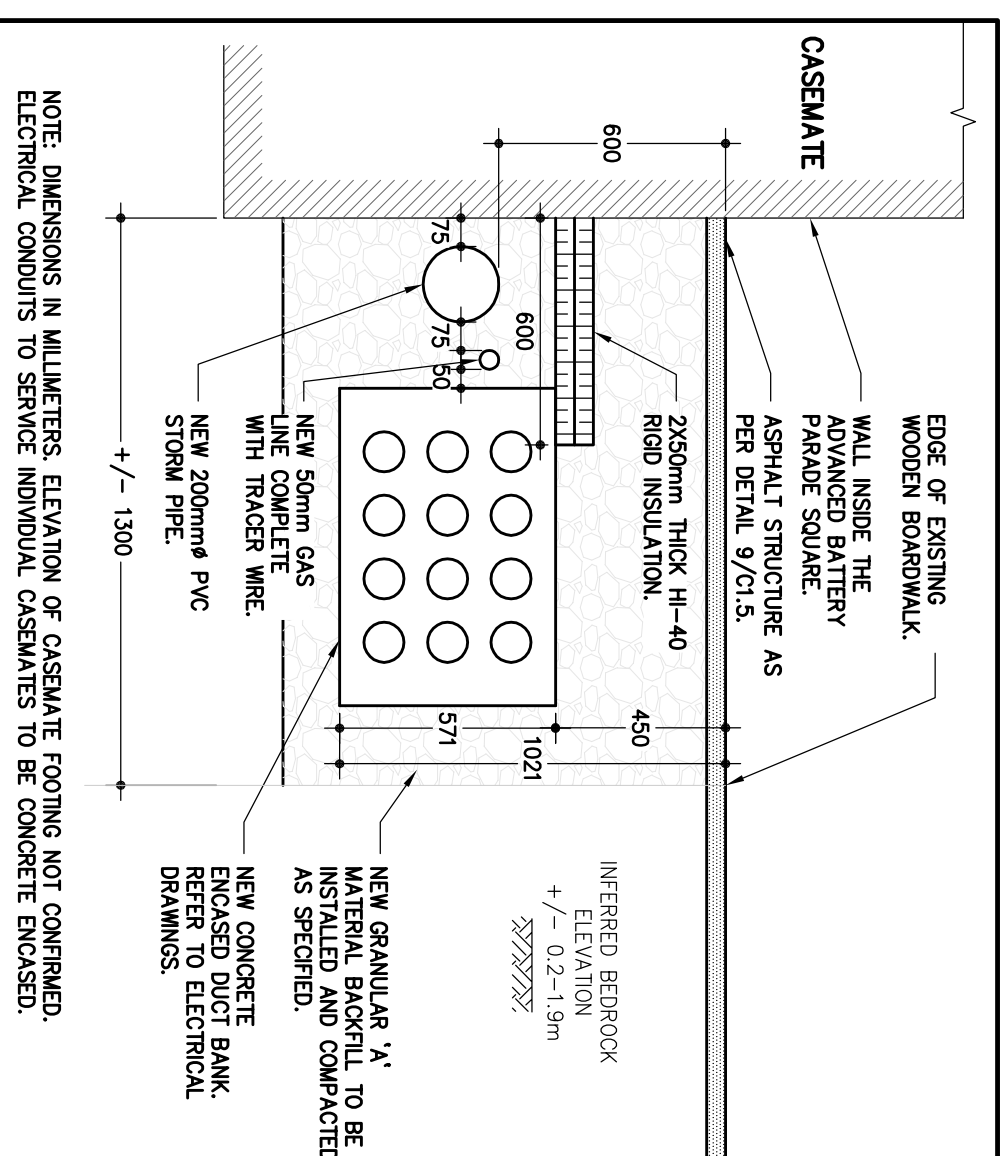
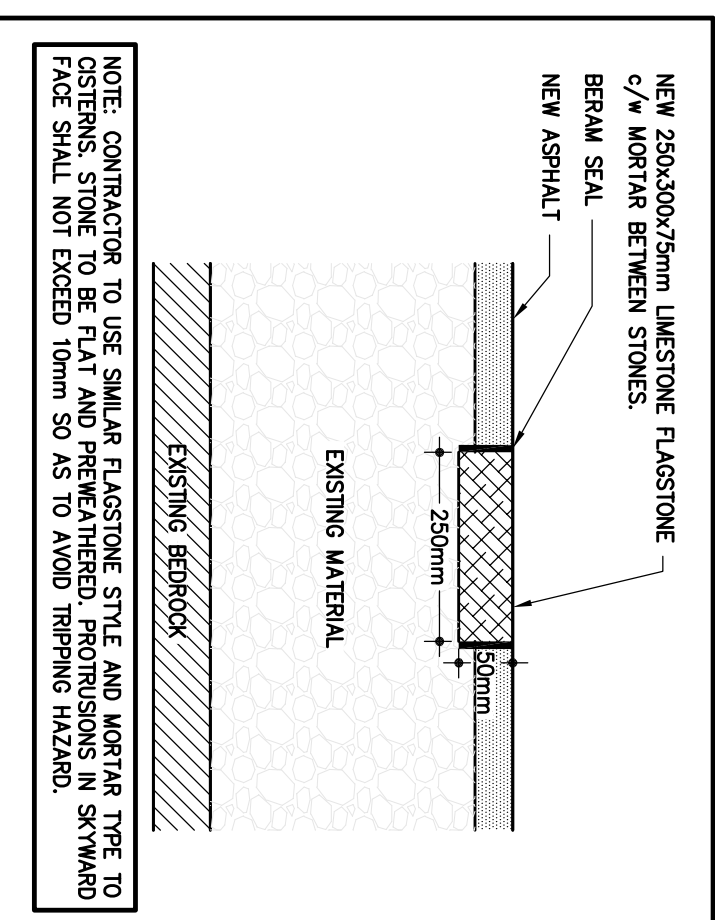
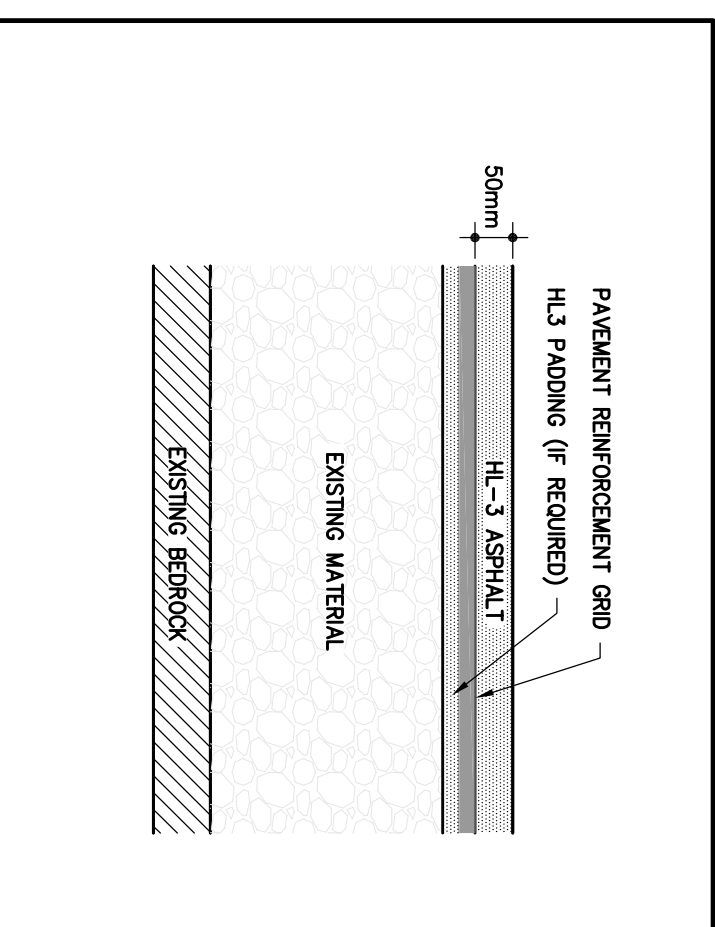
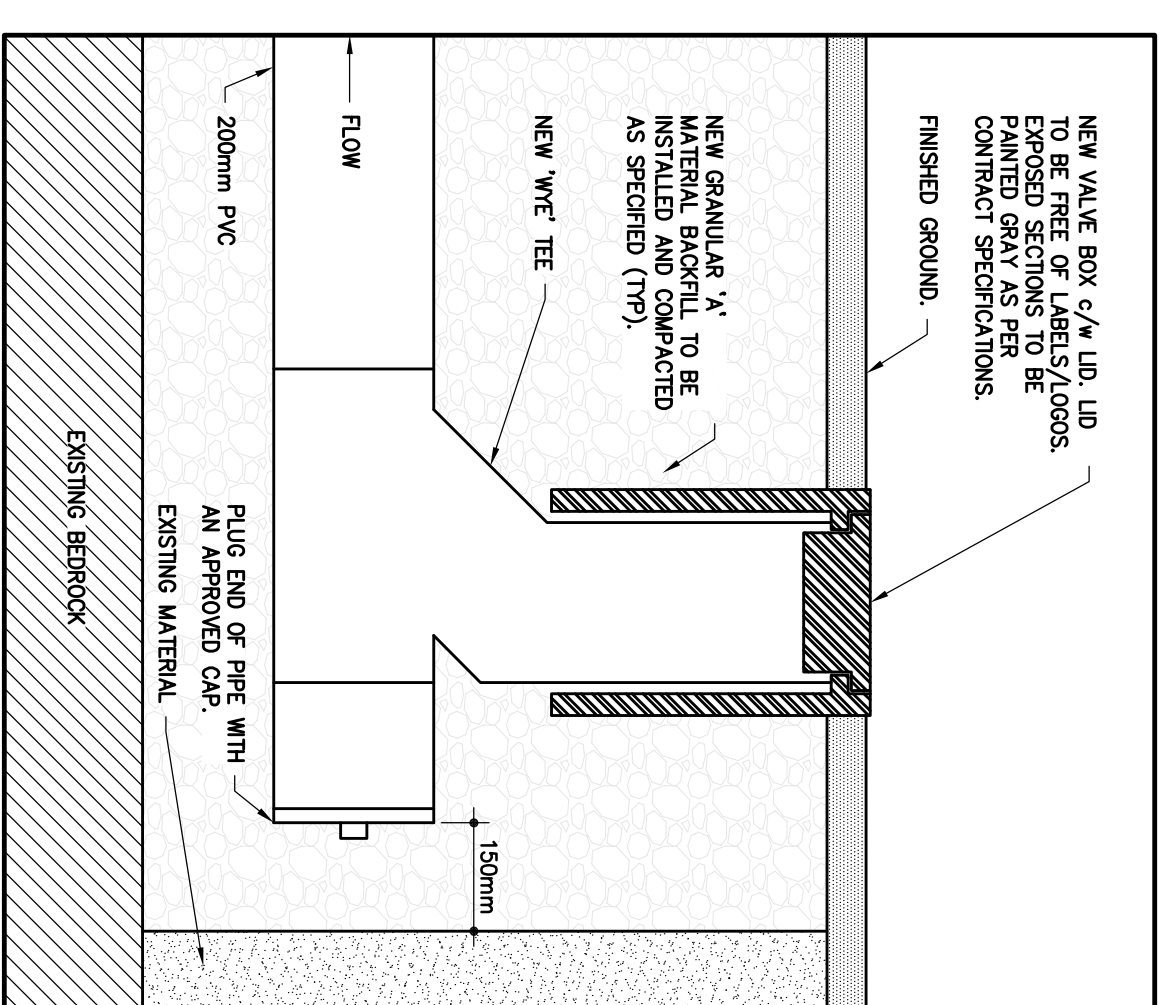
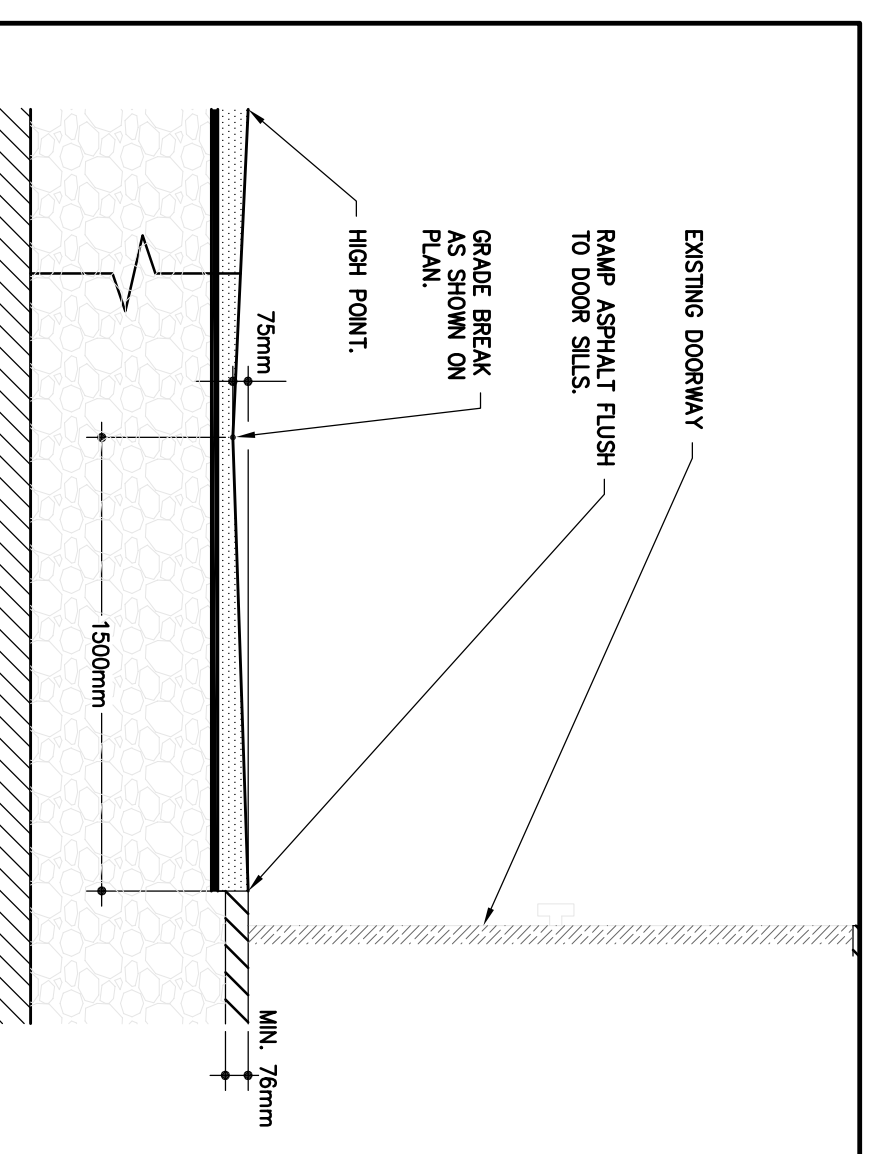
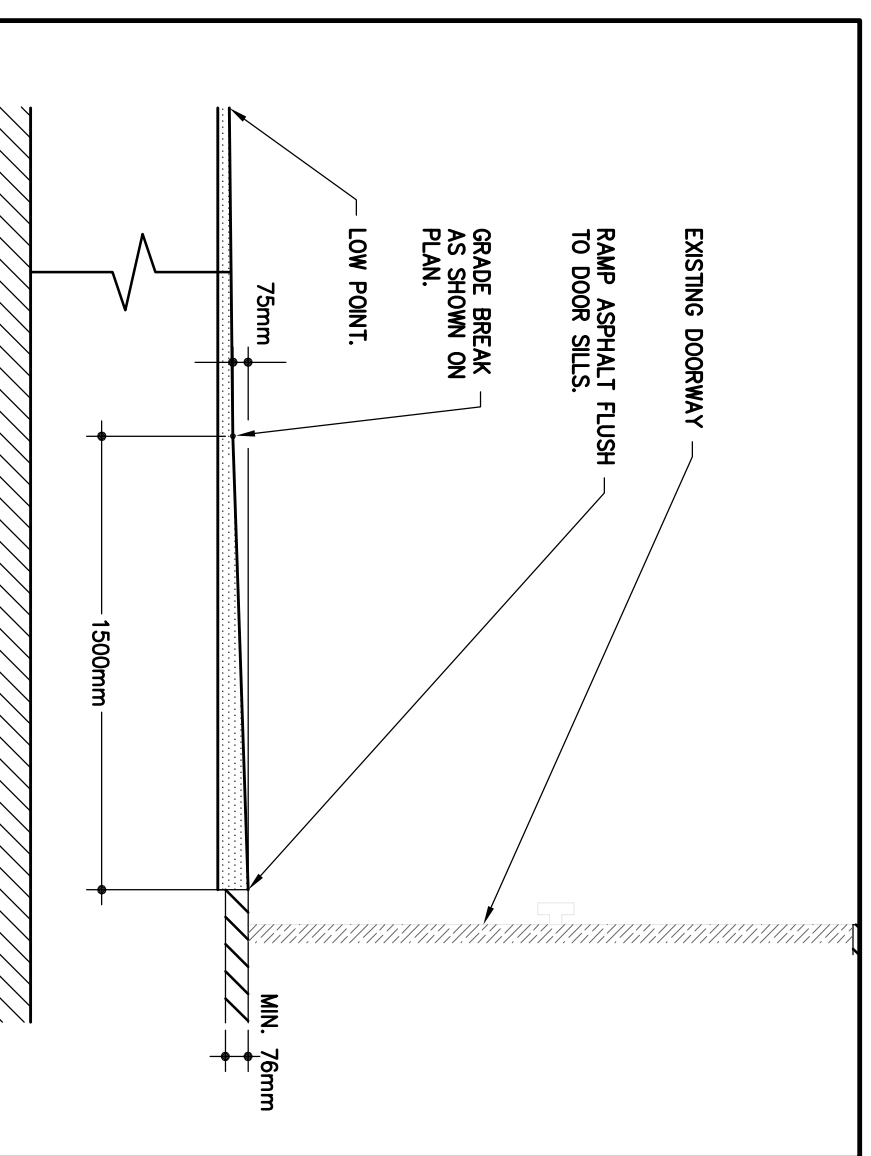
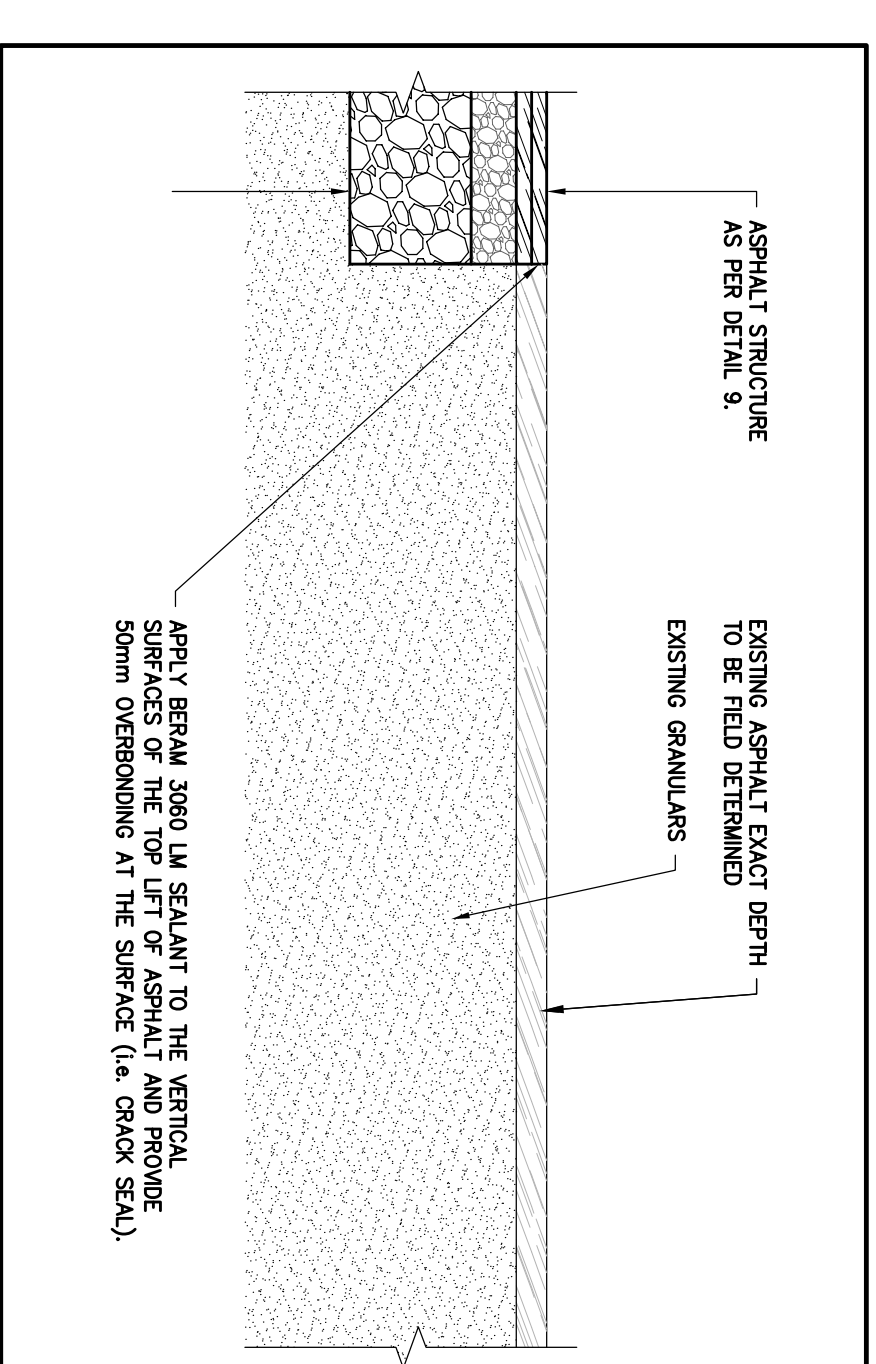
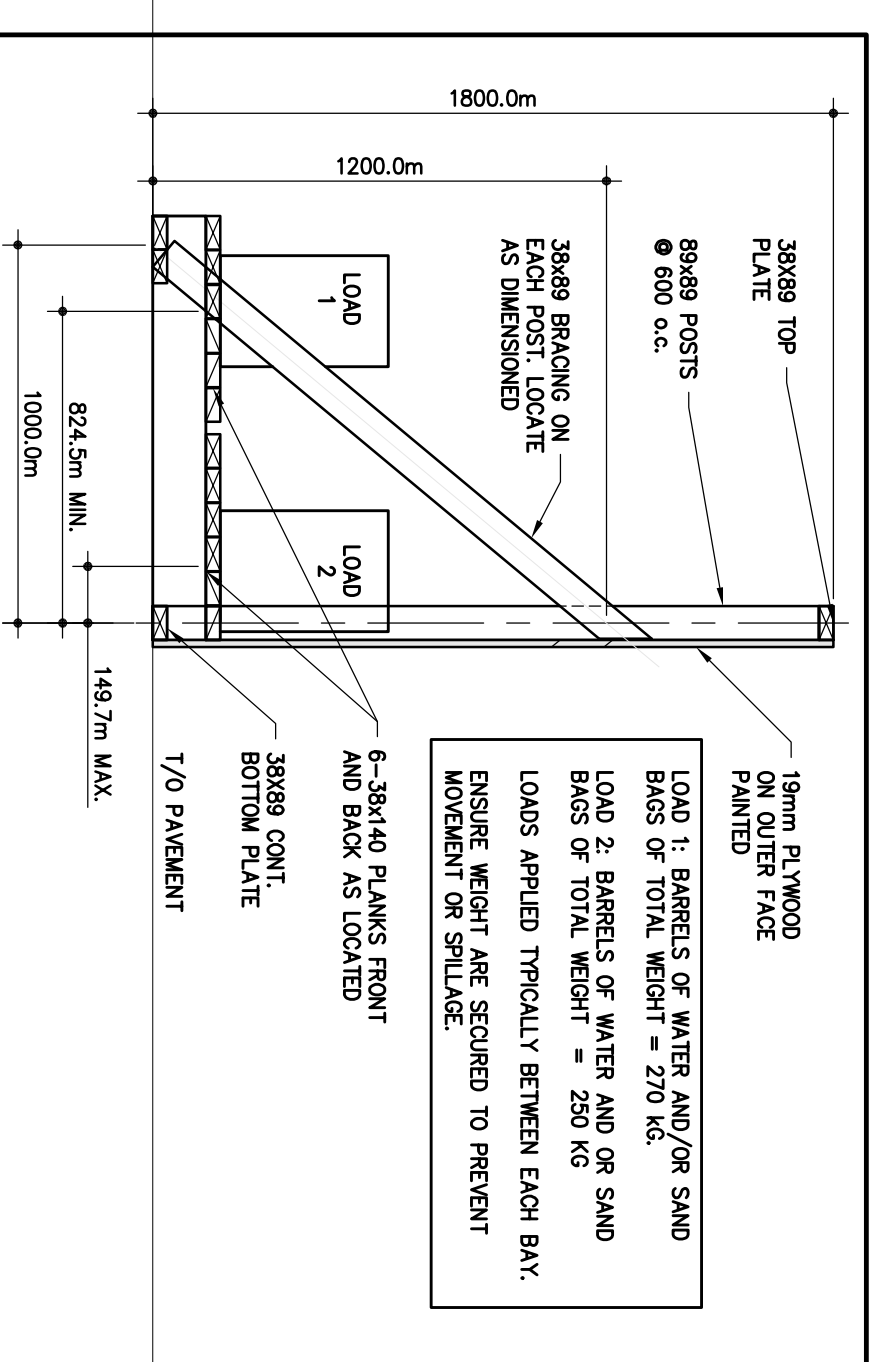
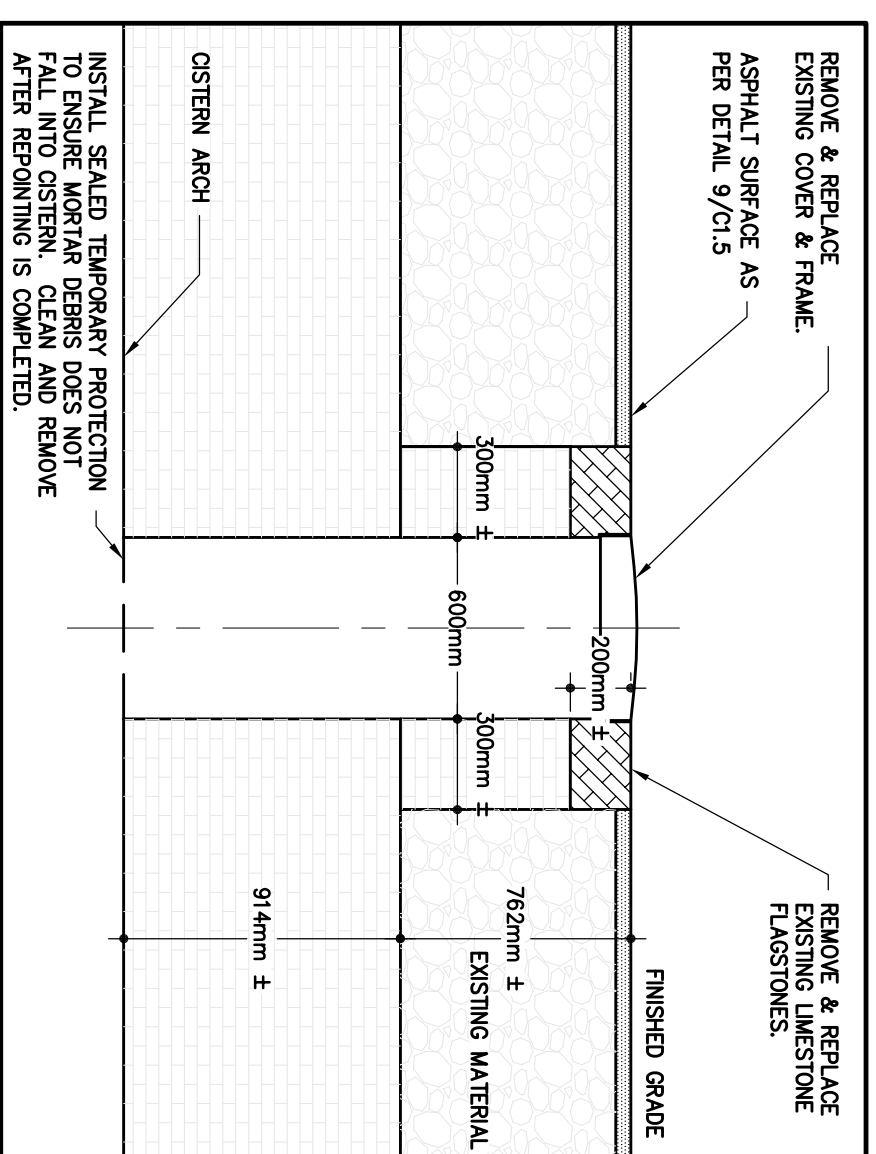
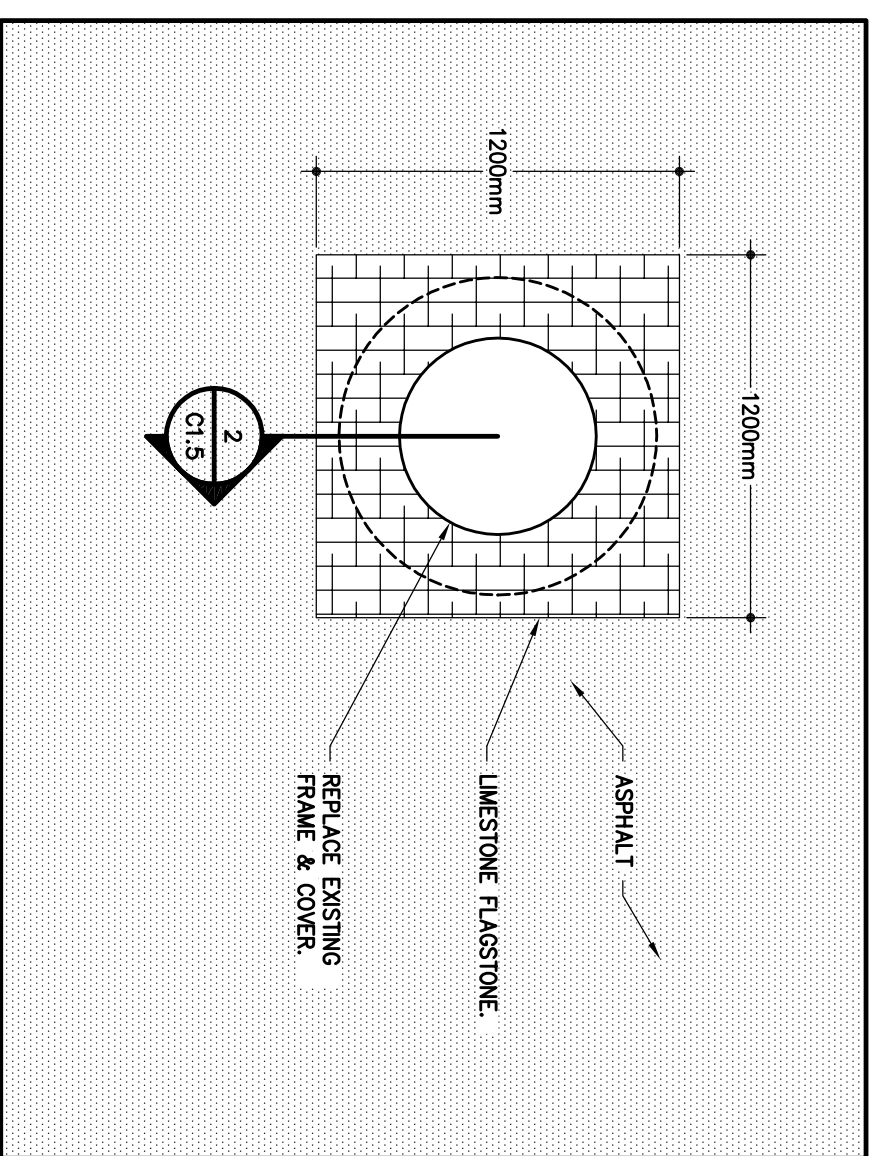
DATE: **2013**

GRADING PLAN

SHEET # **C1.4** OF 5

ISSUED FOR TENDER

DATE: 08/07/2013



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PROFESSIONAL ENGINEER
M.S. MORTEM
10012285
8/17/2013
PROVINCE OF ONTARIO

CLINTE
Parks
Canada
Canada

Canada
FORT HENRY ADVANCED
BATTERY, PARADE SQUARE
REPAIRING, DRAINAGE UPGRADES
AND UNDERGROUND UTILITIES
REPLACEMENT

ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
01	08/07/2013	ISSUED FOR TENDER

DESIGNED BY: K.C. LAURET
CHECKED BY: K.C. LAURET
DRAWN BY: M. MORTEM

TITLE: **CIVIL**

STANDARD DETAILS

SHEET NUMBER: **C1.5**

ISSUED FOR TENDER

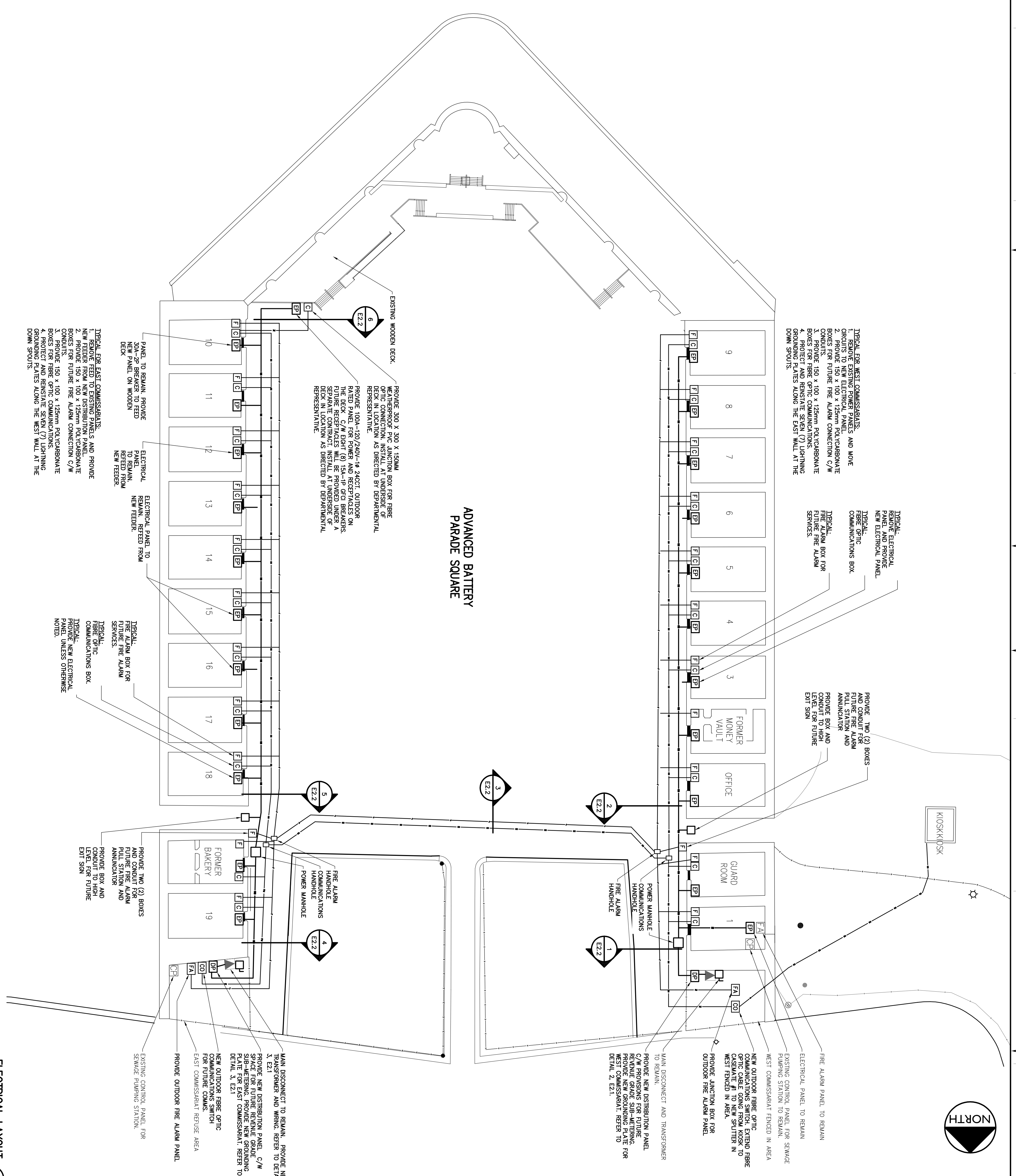
DATE: 08/07/2013

LEGEND:

- NEW UNDERGROUND ELECTRICAL FEEDER
- NEW UNDERGROUND COMMUNICATIONS CONDUIT
- NEW UNDERGROUND FIRE ALARM CONDUIT
- E1 NEW ELECTRICAL PANEL
- E2 NEW DISTRIBUTION PANEL
- E3 MAIN SWITCH TO REMAIN
- TRANSFORMER TO REMAIN
- C NEW FIBRE OPTIC COMMUNICATIONS BOX
- CO NEW FIBRE OPTIC SWITCH
- F NEW BOX FOR FIRE ALARM CONNECTION
- FA NEW FIRE ALARM PANEL

GENERAL NOTES:

1. ALL NEW ELECTRICAL PANELS TO BE THE FOLLOWING UNLESS OTHERWISE NOTED:
 - 100A MAIN C/W 30A MAIN BREAKER
 - SERVICE ENTRANCE RATED
 - NEMA 1
 - BRANDS C/W 1 LOOK ON BREAKER
2. COORDINATE INTERIOR LOCATION AND ROUTING FOR ALL NEW ELECTRICAL PANELS AND CONDUITS TO BE INSTALLED WITHOUT ADDITIONAL COST.
3. PANELS MUST BE INSTALLED IN SIMILAR LOCATION UNLESS INSTRUCTED OTHERWISE.
4. ALL FASTENING FOR PANELS, CONDUITS AND OTHER INSTALLATION TO BE GRAY TO BLEND WITH STONE WALLS.
5. PROVIDE ONE (1) 150MM CORE THROUGH FOUNDATION WALL FOR SERVICES IN EACH CASSEMAITE. WALL IS 900MM THICK CONSISTING OF 300MM STONE VENEERS AND 300MM CONCRETE.
6. PROVIDE 405 X 405 X 305MM HANDHOLE FOR SERVICES ENTERING EACH CASSEMAITE. HANDHOLE SIZE TO BE 150MM DIA. PROVIDE 150 X 100 X 150MM POLYCARBONATE BOX FOR FUTURE FIRE ALARM CONNECTION C/W.
7. PROVIDE 405 X 405 X 305MM HANDHOLE FOR SERVICES ENTERING EACH CASSEMAITE. HANDHOLE SIZE TO BE 150MM DIA. PROVIDE 150 X 100 X 150MM POLYCARBONATE BOX FOR FUTURE FIRE ALARM CONNECTION C/W.
8. PROVIDE 3175mm (1/8") CHECKER PLATE LID. INSTALL ONE (1) HANDHOLE IN EACH CASSEMAITE FLOOR FOR ALL ELECTRICAL SERVICES. CONDUITS TO BE CONTINUOUS WITHIN WORKING AROUND CONDUIT TO SEAL.
9. PROVIDE DUST PROTECTION AT INTERIOR WHEN REMOVING AND NOT CONTAMINATE ROOMS. CONTRACTOR IS RESPONSIBLE FOR CLEANING, METAL WORKING PAK, SUCH AS GRINDING, CUTTING, DRILLING, AND WELDING. ALL FASTENERS ARE LIMITED TO WORTHINGTONS. PROVIDE SHIP DRAWINGS FOR STRUCTURE. USE GALVANIZED METAL AND STAINLESS STEEL (A316) FASTENERS.



ELECTRICAL LAYOUT
SCALE: 1:250

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CANADA K7P 0Z2
PHONE: 613-646-6343
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GENTVAR

CLIENT: Parks Canada
PROJECT: FORT HENRY ADVANCED BATTERY, PARADE SQUARE REPAIRING, DRAINAGE UPGRADES AND UNDERGROUND UTILITIES REPLACEMENT

PROFESSIONAL ENGINEER
D.S. MCDONALD
10007393
August 7/13
PROVINCE OF ONTARIO

NO.	DATE	DESCRIPTION
01	08/07/2013	ISSUED FOR TENDER

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NO.	DATE	DESCRIPTION
01	08/07/2013	ISSUED FOR TENDER

PROJECT NO: 1111-21759-00
DATE: AUGUST 2013
ORIGINAL SCALE: AS SHOWN


DESIGNED BY: [Redacted]
CHECKED BY: [Redacted]

SCALE: 25mm

ELECTRICAL




ELECTRICAL PLAN, LEGEND AND GENERAL NOTES

SHEET NUMBER	E1.1
ISSUE	1 OF 3
ISSUED FOR TENDER	0



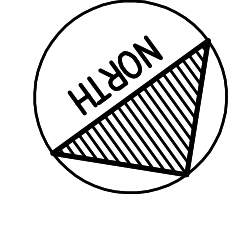
1234 GARDENERS ROAD, SUITE 201
KINGSTON, ONTARIO
CANADA K7P 0G2
PHONE: 613-601-6344-6353
WWW.GENTVAR.COM



CLIENT:
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FORT HENRY ADVANCED
 BATTERY, PARADE SQUARE
 REPAIRING, DRAINAGE UPGRADES
 AND UNDERGROUND UTILITIES
 REPLACEMENT



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ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
01	08/07/2013	ISSUED FOR TENDER

PROJECT NO.: 1111-21759-00

DESIGNED BY: DM

CHECKED BY: [Signature]

DATE: AUGUST 2013

ORIGINAL SCALE: 1:250

DESIGNED BY: DM

CHECKED BY: [Signature]

TITLE: ELECTRICAL

PROJECT NO.: 1111-21759-00

DESIGNED BY: DM

CHECKED BY: [Signature]

DATE: AUGUST 2013

ORIGINAL SCALE: 1:250

DESIGNED BY: DM

CHECKED BY: [Signature]

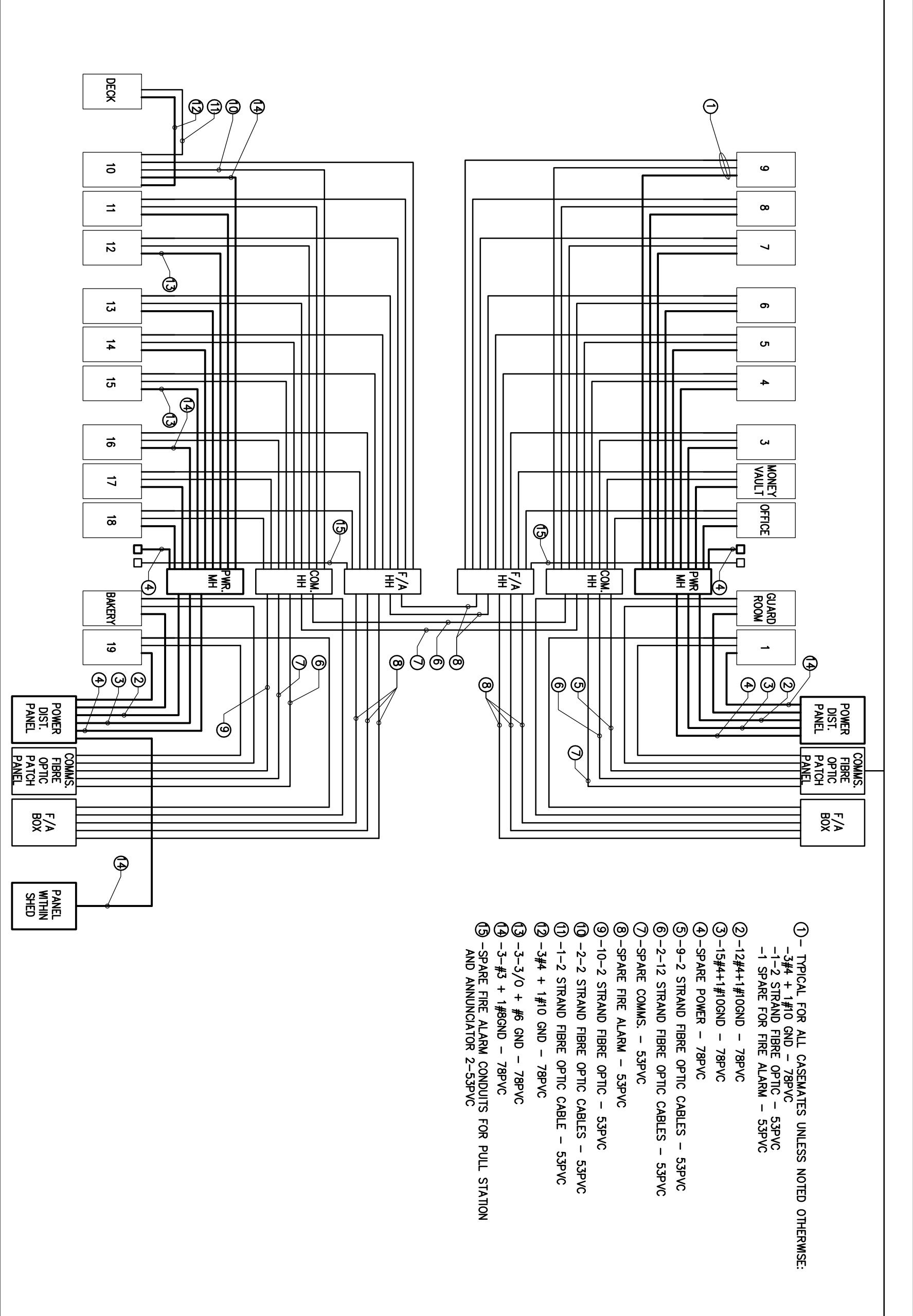
ELECTRICAL SCHEMATICS
 AND SINGLE LINE DIAGRAMS

SHEET NUMBER: E2.1

SHEET # 2 OF 3

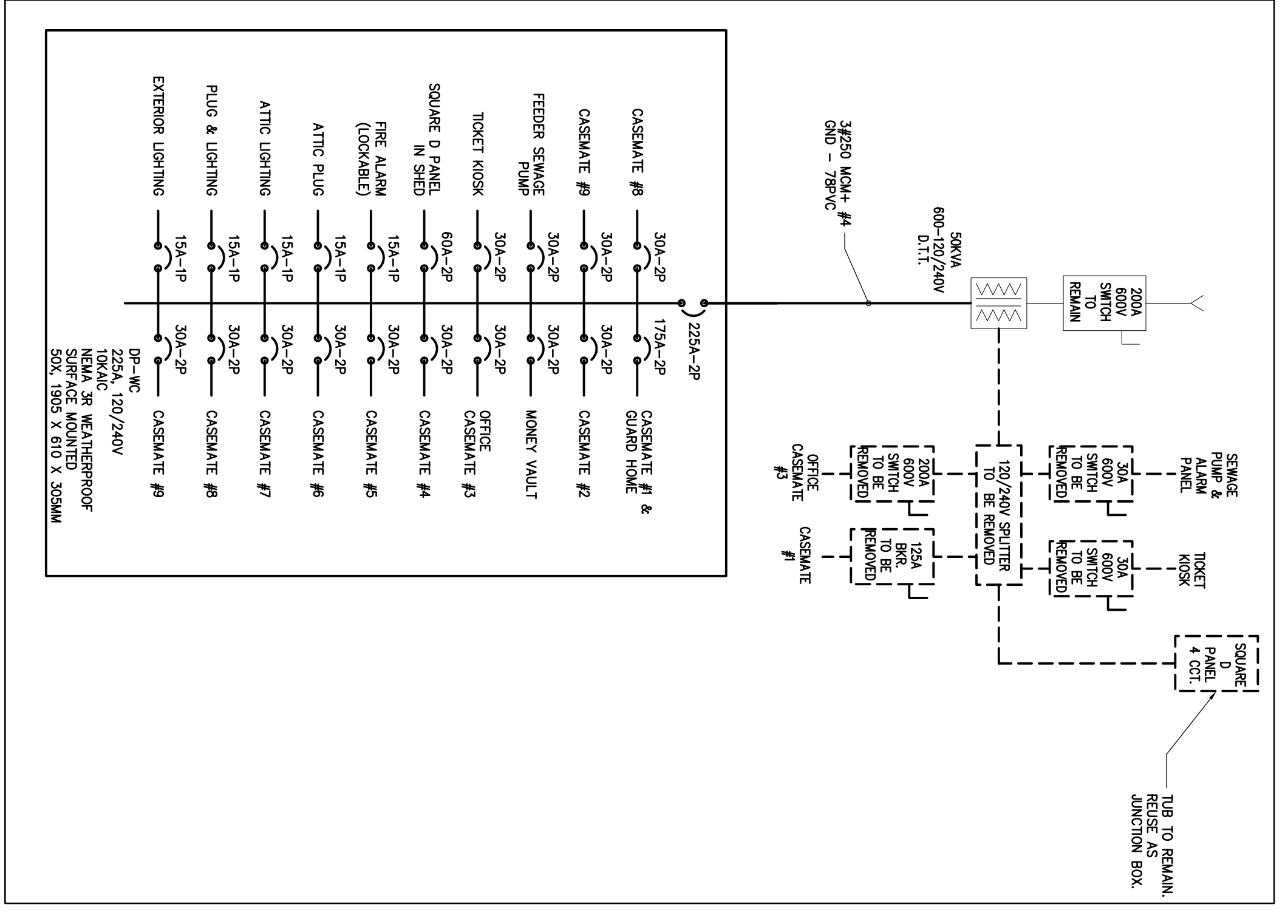
ISSUED FOR TENDER

DATE: 08/07/2013

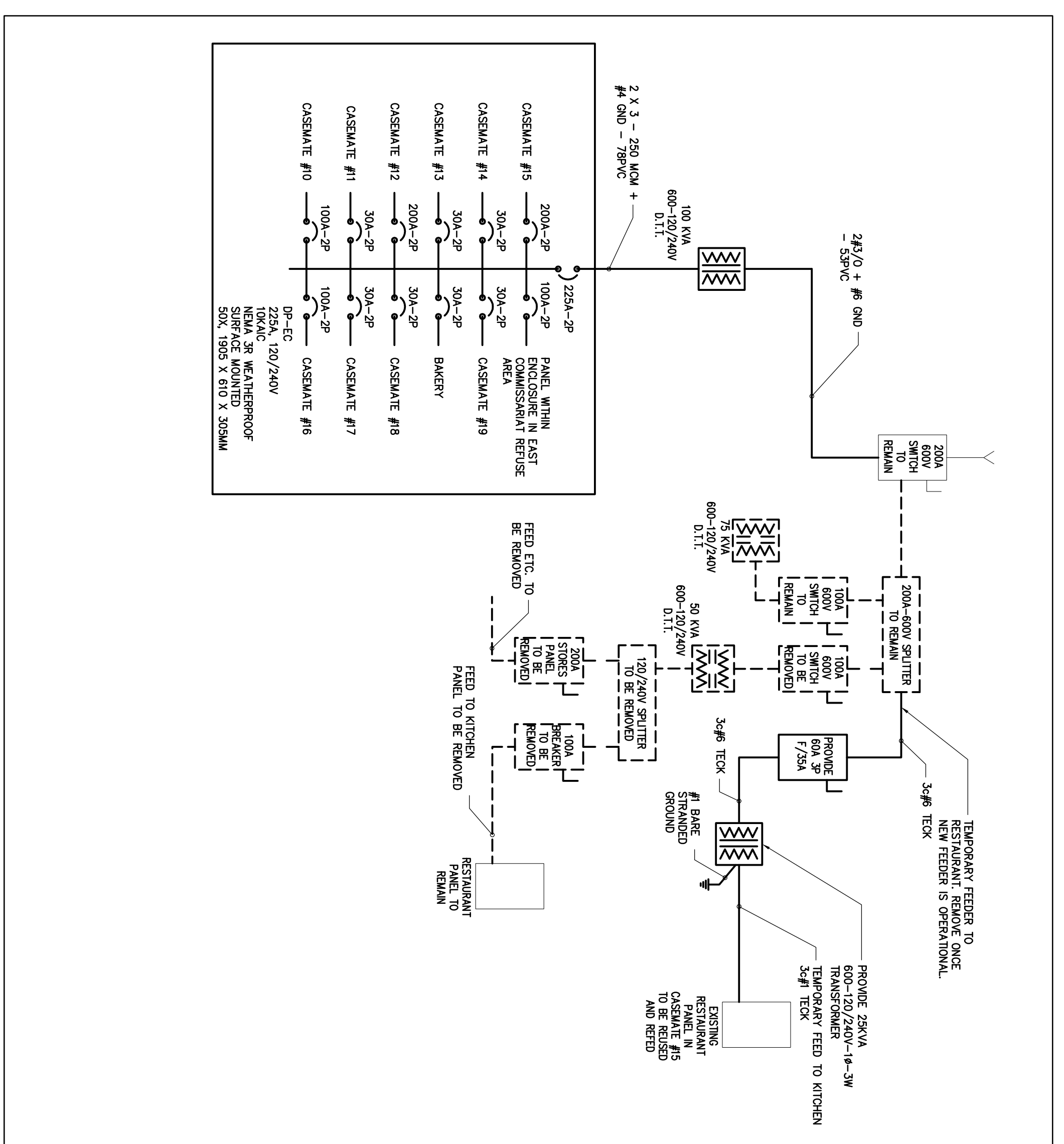


- ①-TYPICAL FOR ALL CASSETTES UNLESS NOTED OTHERWISE:
 -#4 + #10 GND - 78PVC
 -1-5PARE FOR FIRE ALARM - 5SPVC
 ②-1944+110COND - 78PVC
 ③-5PARE POWER - 78PVC
 ④-2 STRAND FIBRE OPTIC CABLES - 5SPVC
 ⑤-2-12 STRAND FIBRE OPTIC CABLES - 5SPVC
 ⑥-5PARE COMMS - 5SPVC
 ⑦-5PARE FIRE ALARM - 5SPVC
 ⑧-10-2 STRAND FIBRE OPTIC - 5SPVC
 ⑨-2-2 STRAND FIBRE OPTIC CABLES - 5SPVC
 ⑩-1-2 STRAND FIBRE OPTIC CABLE - 5SPVC
 ⑪-34 + #10 GND - 78PVC
 ⑫-3-3/0 + #8 GND - 78PVC
 ⑬-5-#3 + 1#8GND - 78PVC
 ⑭-5PARE FIRE ALARM CONDUITS FOR PULL STATION AND ANNUNCIATOR 2-5SPVC

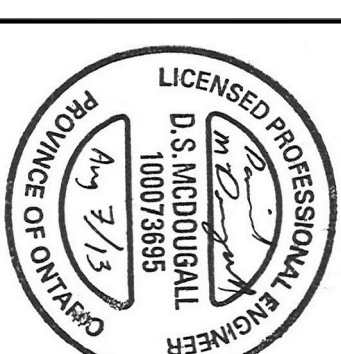
ELECTRICAL CONDUIT SCHEMATIC (E2.1)
 SCALE: N.T.S.



WEST RANGE SINGLE LINE DRAWING (E2.1)
 SCALE: N.T.S.



EAST RANGE SINGLE LINE DRAWING (E2.1)
 SCALE: N.T.S.

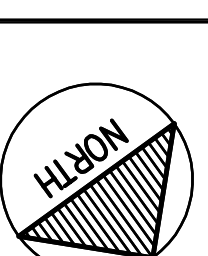


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CLIENT REF # 20202920 (PMP11-01)

FORT HENRY ADVANCED BATTERY, PARADE SQUARE REPAIRING, DRAINAGE UPGRADES AND UNDERGROUND UTILITIES REPLACEMENT



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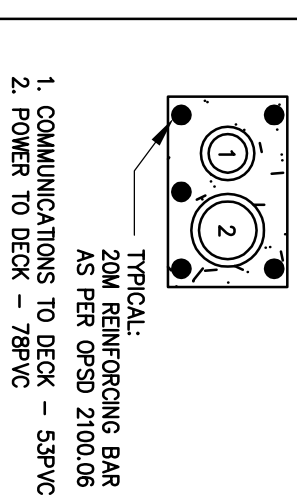
ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
01	08/07/2013	ISSUED FOR TENDER

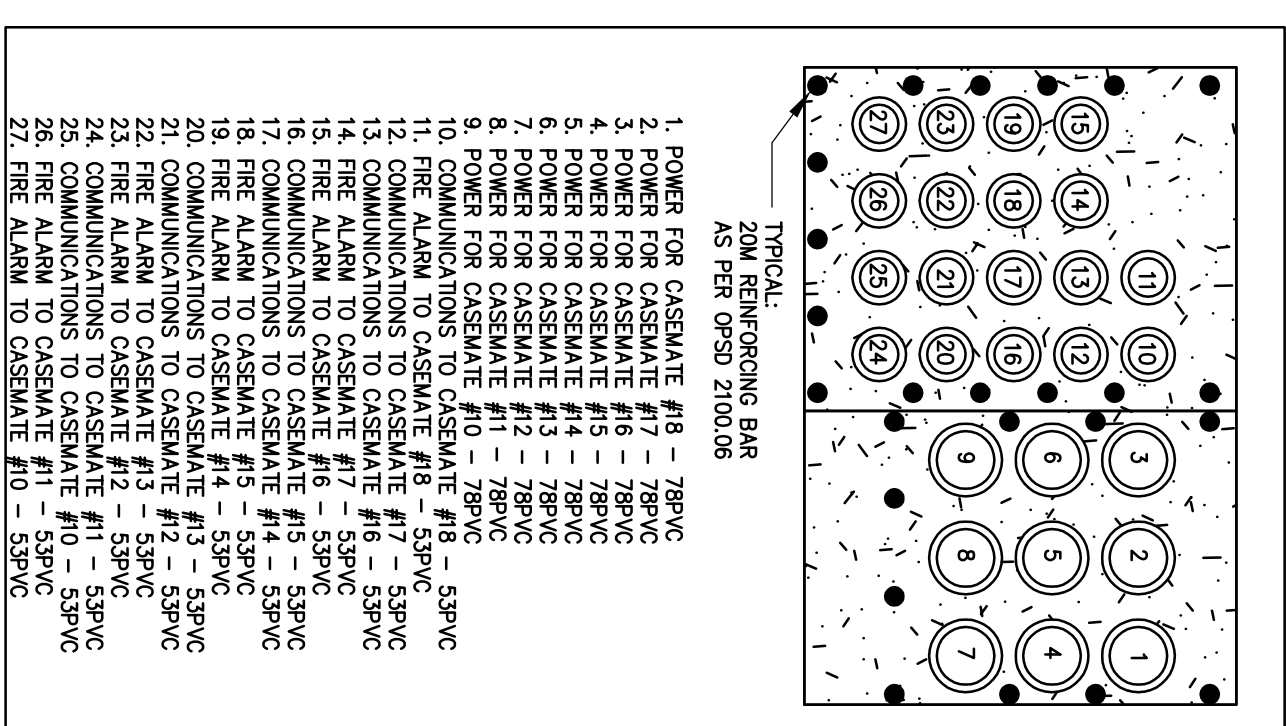
PROJECT NO. 1111-21759-00
 DATE: AUGUST 2013
 ORIGINAL SCALE: 1:250
 DESIGNED BY: DM
 DRAWN BY: AE
 CHECKED BY: [Signature]
 DATE: 08/07/2013

TITLE: ELECTRICAL
TRENCHING, MANHOLE AND HANDHOLE DETAILS

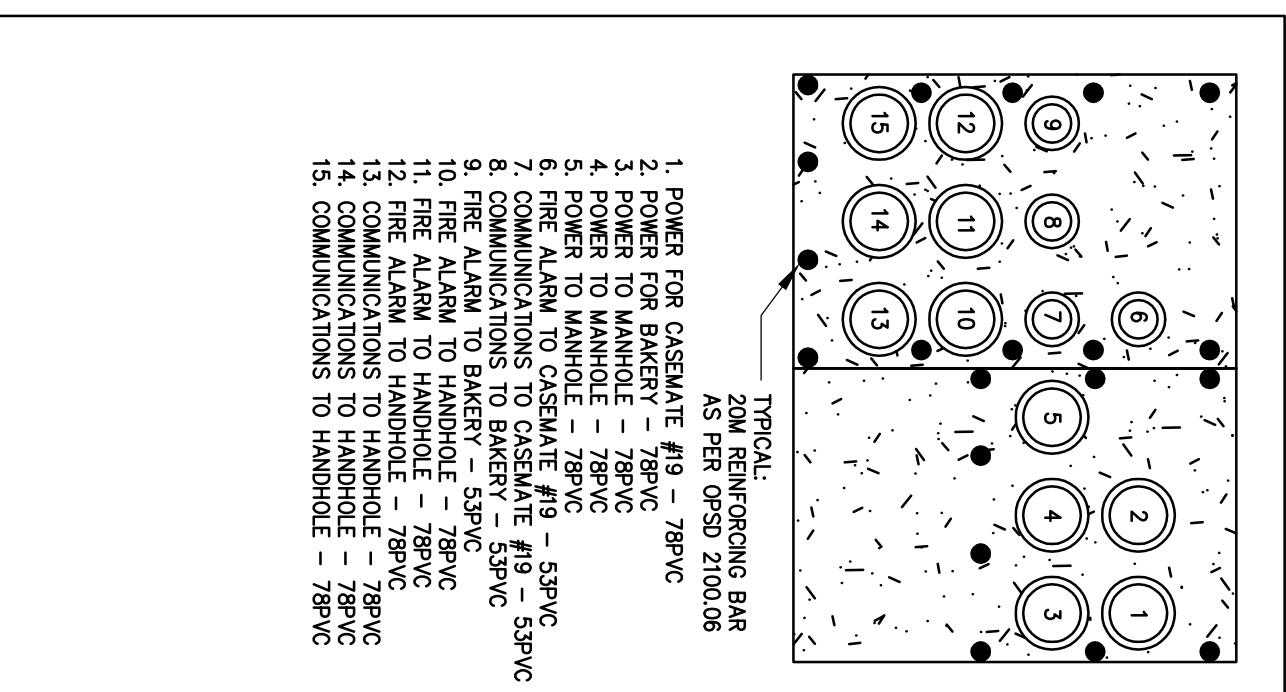
SHEET NUMBER: E2.2
 SHEET # 3 OF 3
 ISSUED FOR TENDER
 DATE: 08/07/2013



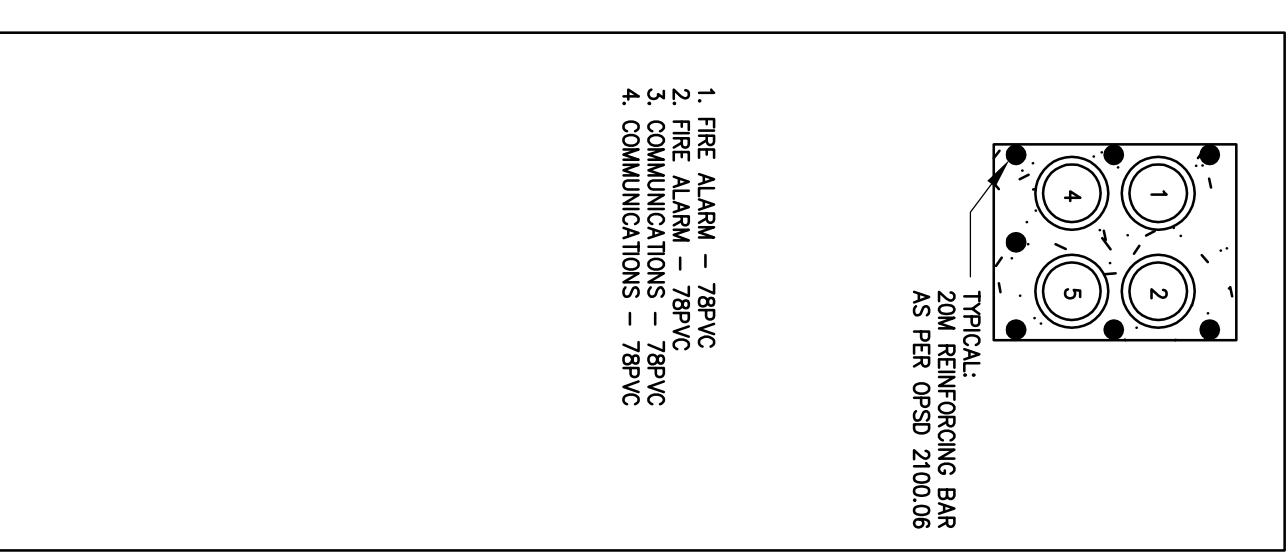
ELECTRICAL TRENCHING DETAIL
 SCALE: N.T.S.



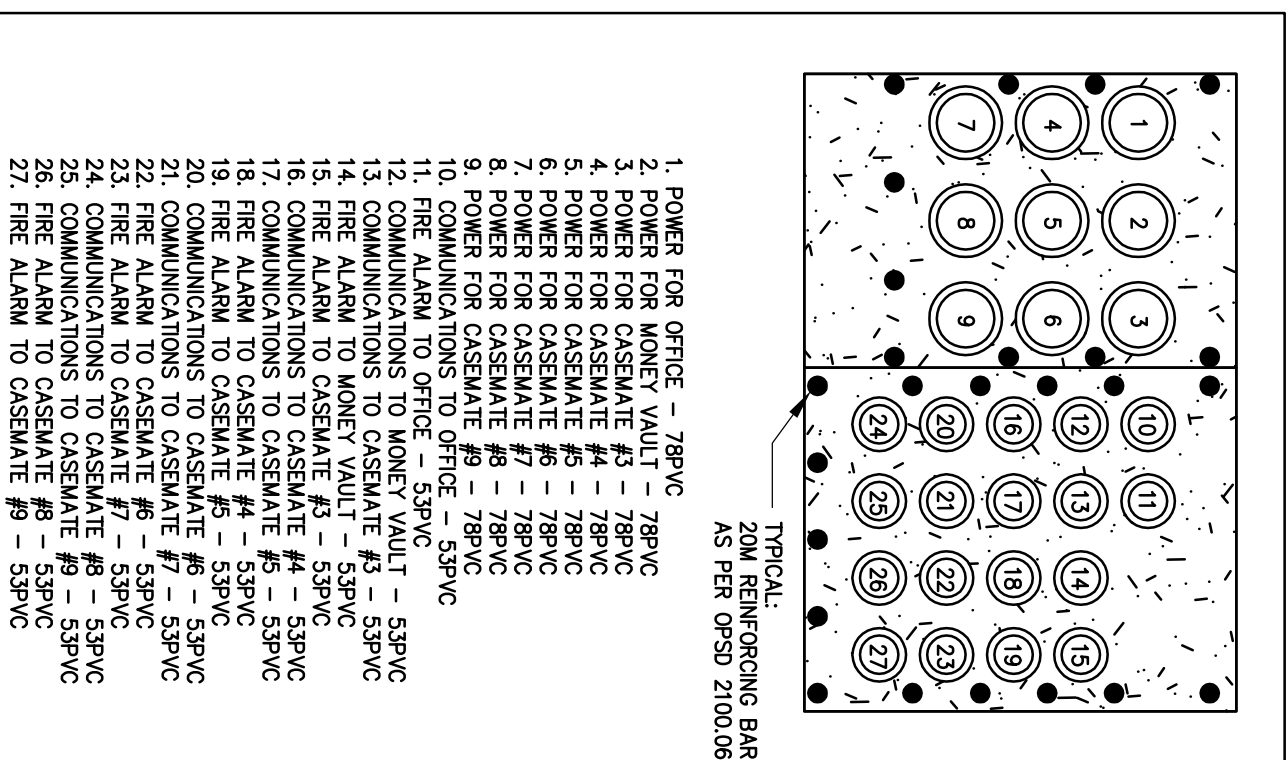
ELECTRICAL TRENCHING DETAIL
 SCALE: N.T.S.



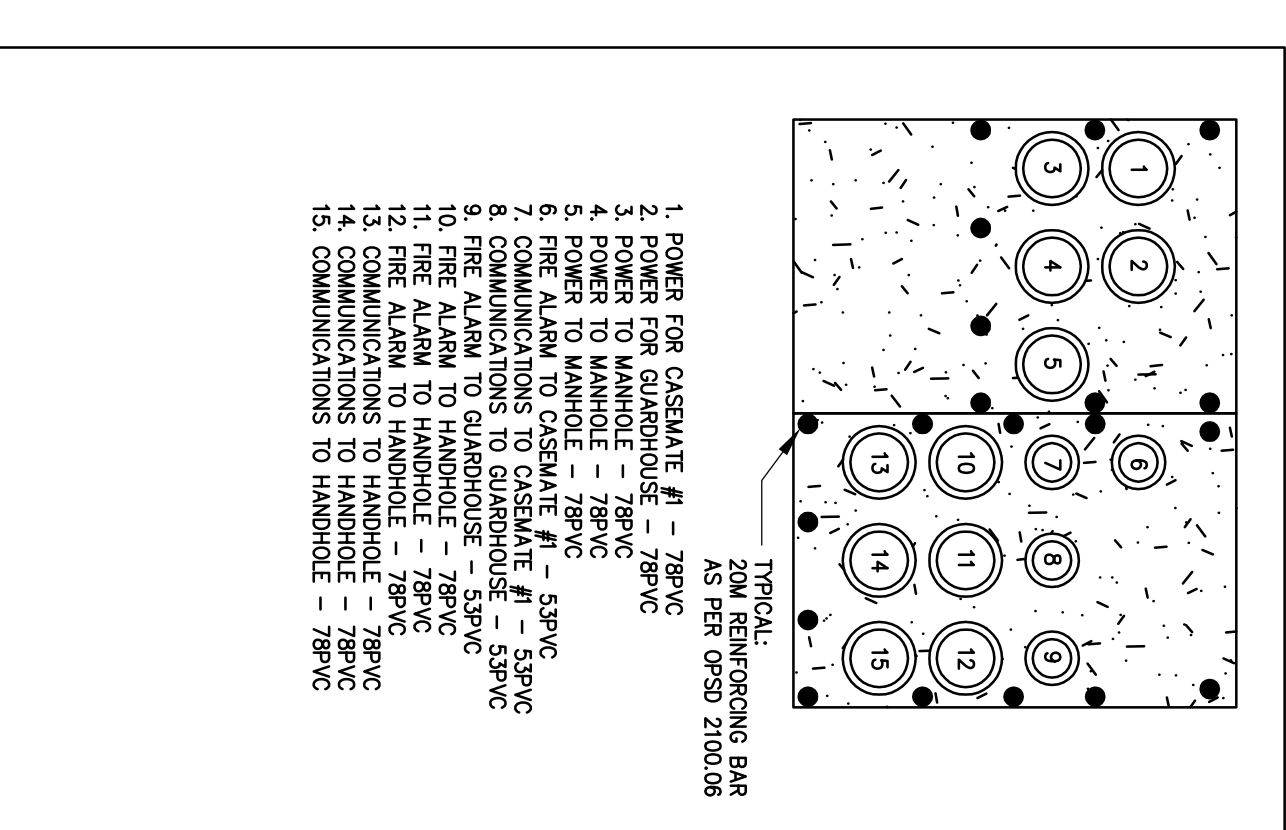
ELECTRICAL TRENCHING DETAIL
 SCALE: N.T.S.



ELECTRICAL TRENCHING DETAIL
 SCALE: N.T.S.

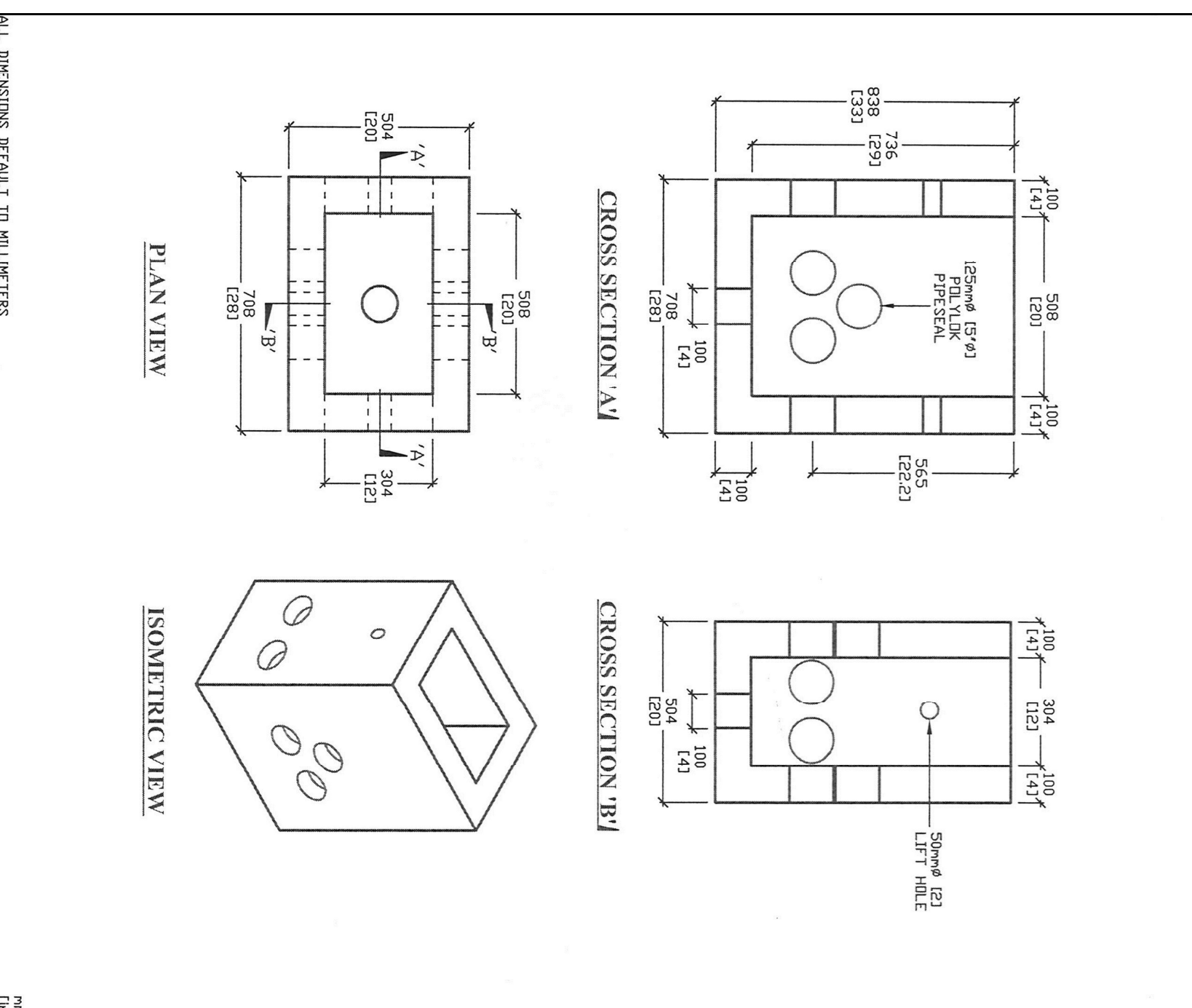


ELECTRICAL TRENCHING DETAIL
 SCALE: N.T.S.



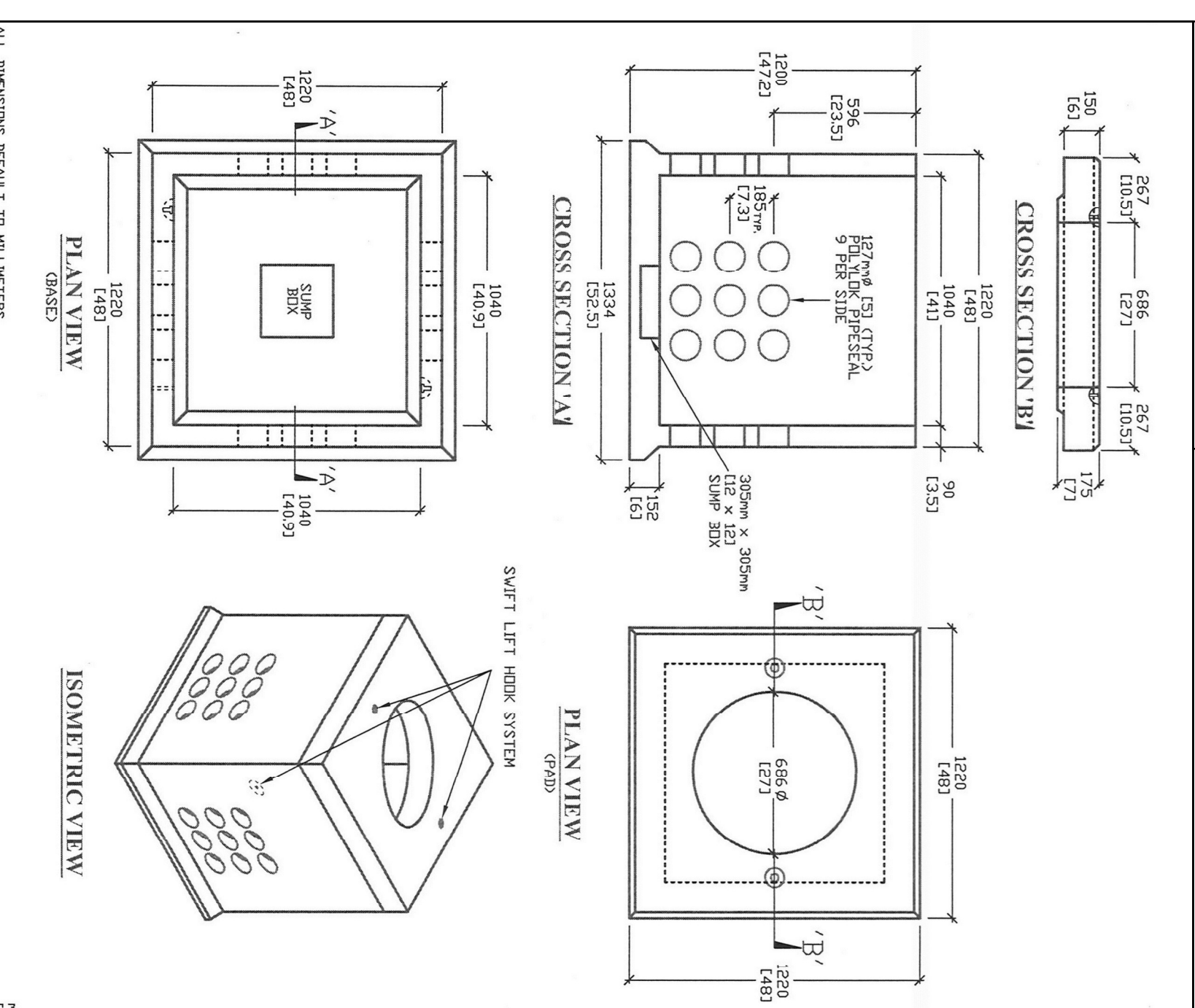
ELECTRICAL TRENCHING DETAIL
 SCALE: N.T.S.

PRECAST MANHOLE NOTES:
 C/W LID
 COVER AS PER O.P.S.D. 211205
 3900 (5000 PS) AT 28 DAYS
 6-8% AIR ENTRAINMENT



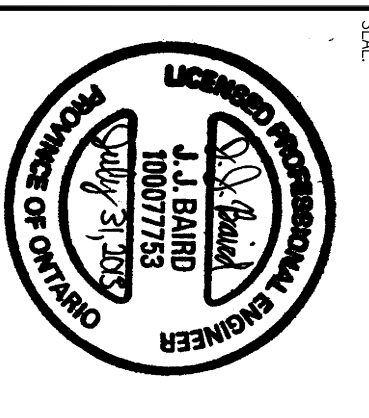
PRECAST ELECTRICAL HANDHOLE DETAIL
 SCALE: N.T.S.

PRECAST MANHOLE HANDHOLE NOTES:
 1.5M (H) X 1000MM X 1000MM
 DESIGN TO C-65-ONT TRUCK LANE LOADING AS PER CSA 56-06
 3900 (5000 PS) AT 28 DAYS
 6-8% AIR ENTRAINMENT



ELECTRICAL MANHOLE DETAIL
 SCALE: N.T.S.

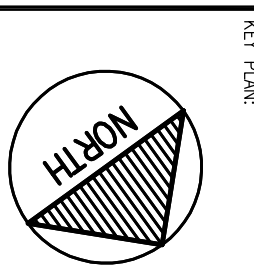
CONSULTANT:



CLIENT:
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 CLIENT REF. #: 20202920 (PHM11-01)
 PROJECT:
**FORT HENRY ADVANCED
 BATTERY, PARADE SQUARE
 REPAIRING, DRAINAGE UPGRADES
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 REPLACEMENT**



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ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION	DATE
01	08/07/2013	ISSUED FOR TENDER	AUGUST 2013

ORIGINAL SCALE: 1:200
 DESIGNED BY: JB
 CHECKED BY: CSS
 DATE: AUGUST 2013

TITLE:
**MECHANICAL
 DEMOLITION PLAN
 AND LEGEND**

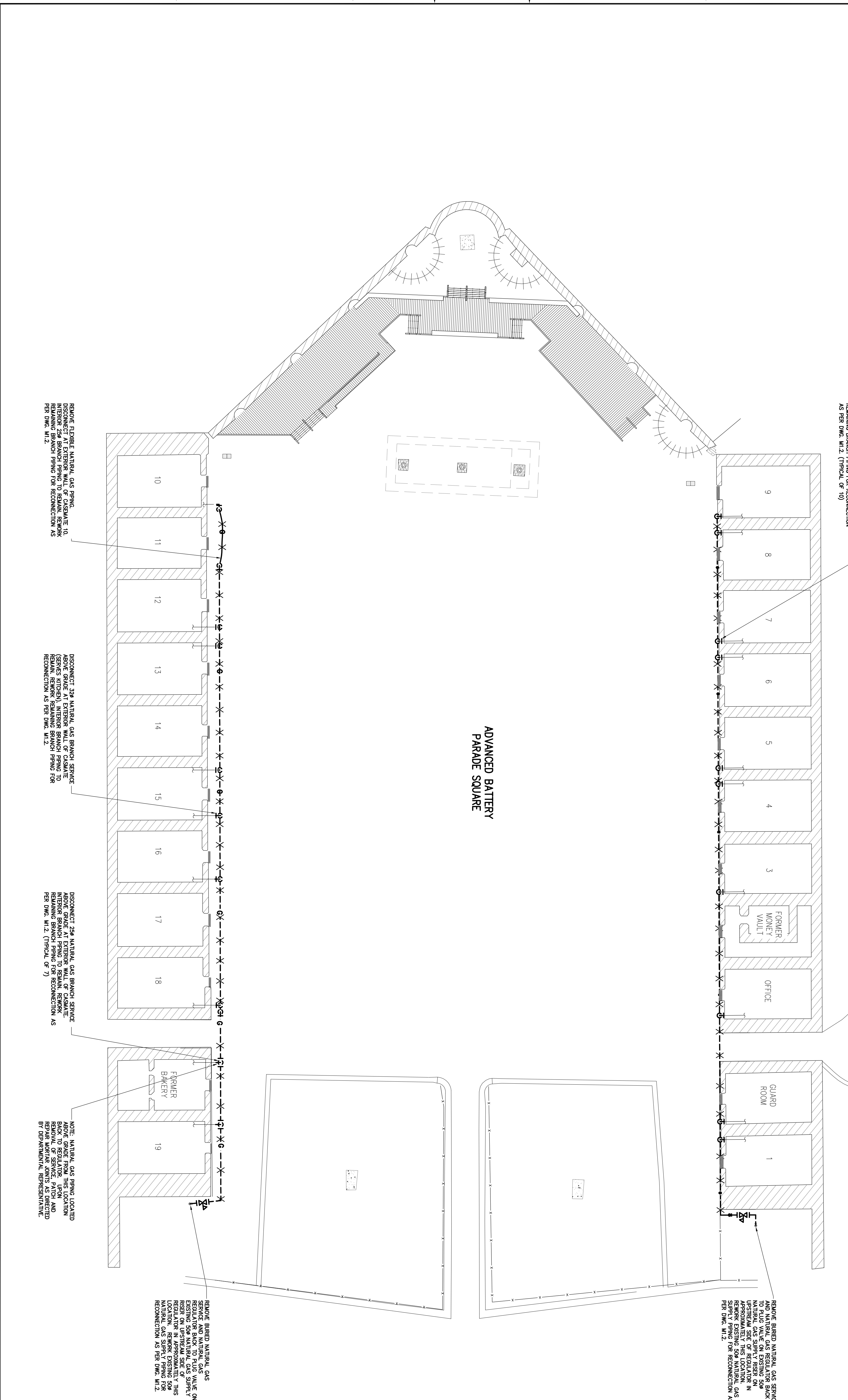
SHEET NUMBER: M1.1
 SHEET # 1 OF 2
 ISSUED FOR TENDER
 DATE: 08/07/2013

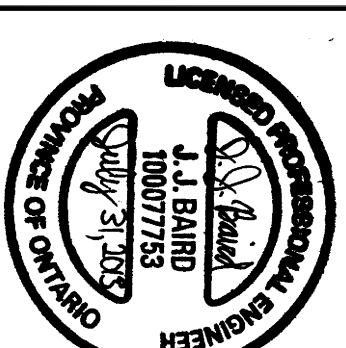
MECHANICAL LEGEND:

- *--- REMOVE PIPING/EQUIPMENT
- o--- EXISTING NATURAL GAS PIPING
- G--- NEW NATURAL GAS PIPING - ABOVE GRADE
- G--- NEW NATURAL GAS PIPING - BELOW GRADE
- P--- PRESSURE REDUCING VALVE
- C--- PIPE CAP
- V--- LUBRICATED PLUG VALVE
- O--- PIPE UP TO ABOVE
- O--- PIPE DOWN TO BELOW
- T--- T JUNCTION DOWN TO BELOW

GENERAL NOTES:

1. IT WAS INDICATED THAT THE VESTIBULES WILL BE REMOVED THEREFORE THEY HAVE NOT BEEN SHOWN ON THE PLAN.

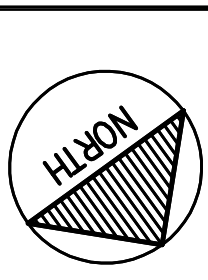




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ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
01	08/07/2013	ISSUED FOR TENDER

PROJECT NO.	1111-21759-00	DATE:	AUGUST 2013
ORIGINAL SCALE:	1:200	DESIGNED BY:	JAB
DESIGNED BY:	JAB	CHECKED BY:	JAB
DATE:	08/07/2013	SCALE:	2mm

TITLE:	MECHANICAL
TITLE:	MECHANICAL LAYOUT

SHEET NUMBER:	M1.2
SHEET #:	2 OF 2
ISSUED FOR TENDER:	0
DATE:	08/07/2013

GENERAL NOTES:
 1. IT WAS INDICATED THAT THE VESTIBULES WILL BE REMOVED THEREFORE THEY HAVE NOT BEEN SHOWN ON THE PLAN.
MECHANICAL NOTES:
 1. RISER HAS ALLOWED FOR NATURAL GAS USAGE CAPACITIES AS FOLLOWS:
 1. TYPICAL CASSETTE HEATER: 1.4 m³/hr (50,000 Btu/h);
 2. KITCHEN APPLIANCES (TYPICAL): 17.0 m³/hr (600,000 Btu/h);
 3. BARBECUE/GRILL CONNECTIONS (TYPICAL): 8.2 m³/hr (300,000 Btu/h).
 2. PARKS CANADA WILL PROVIDE APPROXIMATELY 75mm Ø SGA INSTALLED AS PART OF THIS WORK. COORDINATE WITH DEPARTMENTAL REPRESENTATIVE.

