

NOTES:

- FOR CONCRETE GENERAL NOTES SEE 240K-C2-0000-15R-101
- PRIOR TO POURING CONCRETE CONTRACTOR SHALL CHECK FOR ANY ELECTRICAL GROUNDING REQUIREMENTS. REFER TO GROUNDING DETAIL DRAWINGS FOR UNDERGROUND SERVICES.
- COORDINATES ON THIS DWG ARE IN THE PLANT COORDINATE SYSTEM PER JOB BULLETIN JB-8-010.
- FOR UNDERGROUND FIRE WATER LINE & HYDRANT LOCATIONS SEE DRAWING 240K-C2-5300-10L-001.
- THE BALL MILL FEED SURGE BINS WAS DESIGNED AS A NON-BUILDING STRUCTURE, NOT SIMILAR TO BUILDINGS UTILIZING TABLE 15.4-2 OF ASCE 7-05, "ALL OTHER STEEL & REINFORCED CONCRETE DISTRIBUTED MASS CANTILEVER STRUCTURE NOT COVERED HEREIN INCLUDING STACKS, CHIMNEYS, SILOS AND SKIRT-SUPPORTED VERTICAL VESSELS THAT ARE NOT SIMILAR TO BUILDINGS". WERE SELECTED AS THE SEISMIC LOAD RESISTING SYSTEM FOR BOTH EAST-WEST AND NORTH-SOUTH DIRECTIONS. SEISMIC COEFFICIENTS ARE R=3, R_v=2, C_v=2.5, SDC=D.

CONCRETE BILL OF MATERIAL

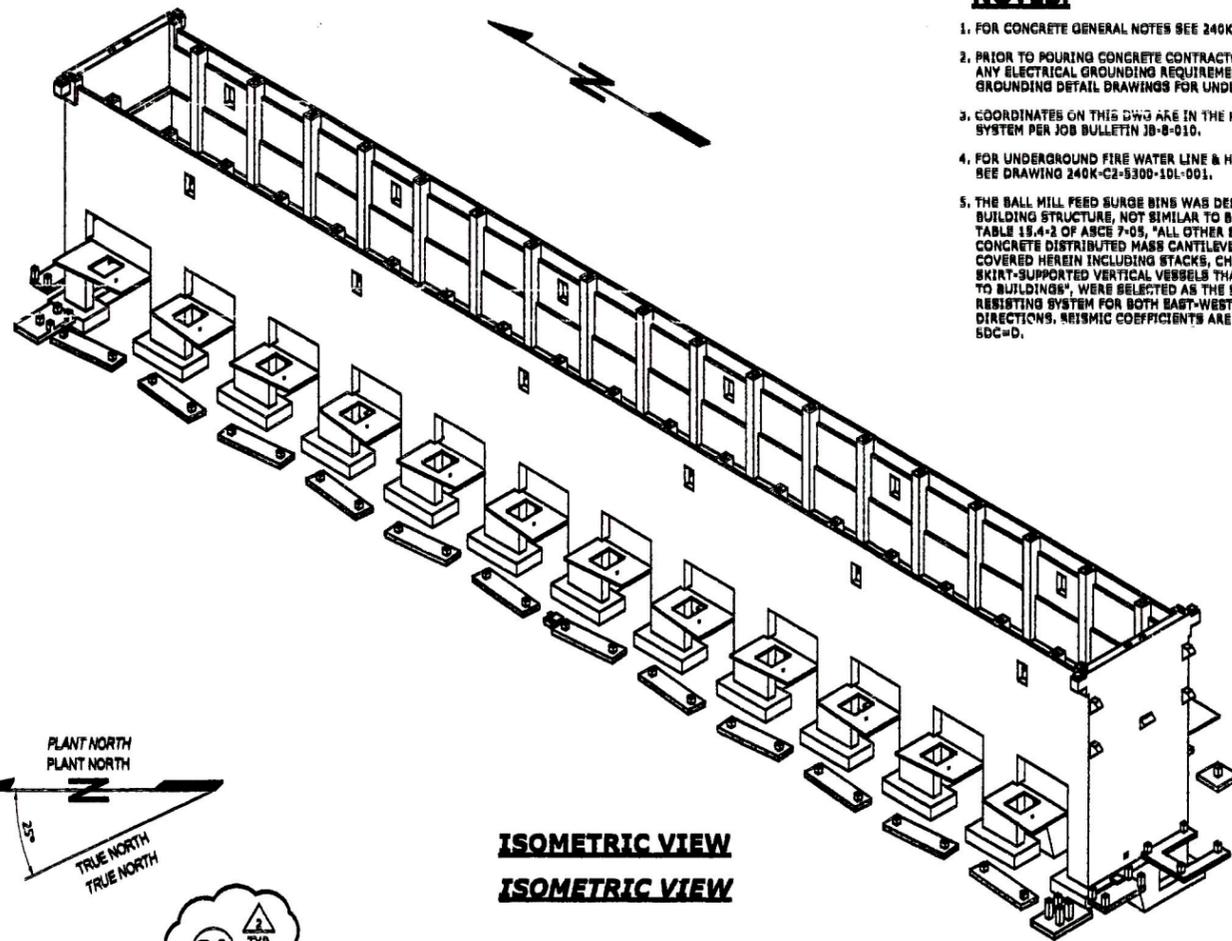
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CONC QTY (CU. M)	TYPE/TYPE
4990	02B
2960	13
12056	29B
WBI: 331060AAB2	
CONC QTY (CU. M)	TYPE/TYPE
433	03
0.12	26A
WBI: 331000AAB1	
CONC QTY (CU. M)	TYPE/TYPE
188	02A
50	1P
17	29A
WBI: 331000AAB4	
CONC QTY (CU. M)	TYPE/TYPE
907	02C
5	1B

NOTES:

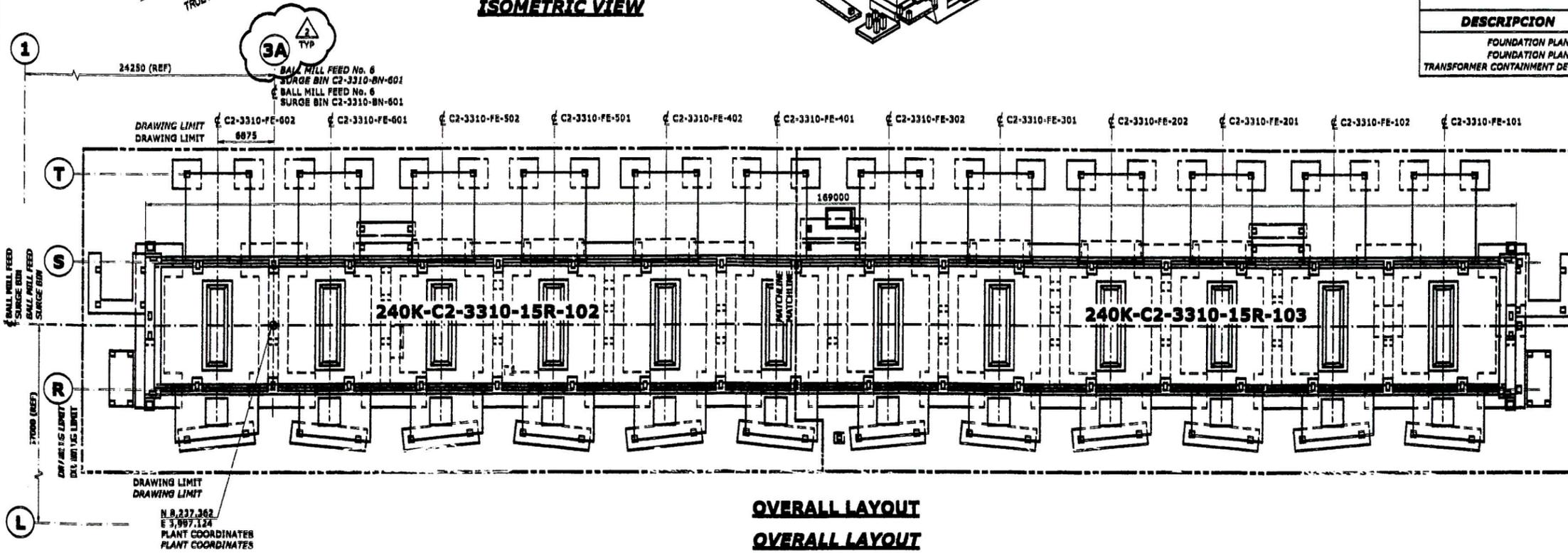
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WBI DRAWING INDEX/WBI DRAWING INDEX

GRINDING BALL MILL FEED SURGE BIN		GRINDING BALL MILL FEED SURGE BIN	
WBI: 331000AAB2			
DESCRIPCION	PLANO No/DWG No	DESCRIPCION	
FOUNDATION PLAN SH 1	240K-C2-3310-15R-102	FOUNDATION PLAN SH 1	
FOUNDATION PLAN SH 2	240K-C2-3310-15R-103	FOUNDATION PLAN SH 2	
ELEC. ROOM/CONV. FLOOR EMBED PLAN	240K-C2-3310-15R-104	ELEC. ROOM/CONV. FLOOR EMBED PLAN	
FEEDER FLOOR EMBED PLAN	240K-C2-3310-15R-105	FEEDER FLOOR EMBED PLAN	
SURGE BIN FLOOR PLAN	240K-C2-3310-15R-106	SURGE BIN FLOOR PLAN	
TRIPPER FLOOR PLAN	240K-C2-3310-15R-107	TRIPPER FLOOR PLAN	
SECTIONS AND DETAILS SH 1	240K-C2-3310-15R-111	SECTIONS AND DETAILS SH 1	
SECTIONS AND DETAILS SH 2	240K-C2-3310-15R-112	SECTIONS AND DETAILS SH 2	
SECTIONS AND DETAILS SH 3	240K-C2-3310-15R-113	SECTIONS AND DETAILS SH 3	
SECTIONS AND DETAILS SH 4	240K-C2-3310-15R-114	SECTIONS AND DETAILS SH 4	
SECTIONS AND DETAILS SH 5	240K-C2-3310-15R-115	SECTIONS AND DETAILS SH 5	
SECTIONS AND DETAILS SH 6	240K-C2-3310-15R-116	SECTIONS AND DETAILS SH 6	
SECTIONS AND DETAILS SH 7	240K-C2-3310-15R-117	SECTIONS AND DETAILS SH 7	
SECTIONS AND DETAILS SH 8	240K-C2-3310-15R-118	SECTIONS AND DETAILS SH 8	
SECTIONS AND DETAILS SH 9	240K-C2-3310-15R-119	SECTIONS AND DETAILS SH 9	
SECTIONS AND DETAILS SH 10	240K-C2-3310-15R-120	SECTIONS AND DETAILS SH 10	
SECTIONS AND DETAILS SH 11	240K-C2-3310-15R-121	SECTIONS AND DETAILS SH 11	
SECTIONS AND DETAILS SH 12	240K-C2-3310-15R-122	SECTIONS AND DETAILS SH 12	
WBI: 331000AAB6			
DESCRIPCION	PLANO No/DWG No	DESCRIPCION	
SURGE BIN FLOOR PLAN	240K-C2-3310-15R-106	SURGE BIN FLOOR PLAN	
EMBEDMENT DETAILS SH 1	240K-C2-3310-15R-131	EMBEDMENT DETAILS SH 1	
EMBEDMENT DETAILS SH 2	240K-C2-3310-15R-132	EMBEDMENT DETAILS SH 2	
WBI: 331060AAB2			
DESCRIPCION	PLANO No/DWG No	DESCRIPCION	
FOUNDATION PLAN SH 1	240K-C2-3310-15R-102	FOUNDATION PLAN SH 1	
FOUNDATION PLAN SH 2	240K-C2-3310-15R-103	FOUNDATION PLAN SH 2	
SECTIONS AND DETAILS SH 1	240K-C2-3310-15R-141	SECTIONS AND DETAILS SH 1	
SECTIONS AND DETAILS SH 2	240K-C2-3310-15R-142	SECTIONS AND DETAILS SH 2	
SECTIONS AND DETAILS SH 3	240K-C2-3310-15R-143	SECTIONS AND DETAILS SH 3	
WBI: 331000AAB4			
DESCRIPCION	PLANO No/DWG No	DESCRIPCION	
ELEC. ROOM ELEVATED SLAB PLAN SH 1	240K-C2-3310-15R-171	ELEC. ROOM ELEVATED SLAB PLAN SH 1	
ELEC. ROOM ELEVATED SLAB PLAN SH 2	240K-C2-3310-15R-172	ELEC. ROOM ELEVATED SLAB PLAN SH 2	
FEEDER FLOOR ELEVATED SLAB PLAN	240K-C2-3310-15R-173	FEEDER FLOOR ELEVATED SLAB PLAN	
WBI: 331000AAB1			
DESCRIPCION	PLANO No/DWG No	DESCRIPCION	
FOUNDATION PLAN SH 1	240K-C2-3310-15R-102	FOUNDATION PLAN SH 1	
FOUNDATION PLAN SH 2	240K-C2-3310-15R-103	FOUNDATION PLAN SH 2	
TRANSFORMER CONTAINMENT DETAILS	240K-C2-3310-15R-135	TRANSFORMER CONTAINMENT DETAILS	

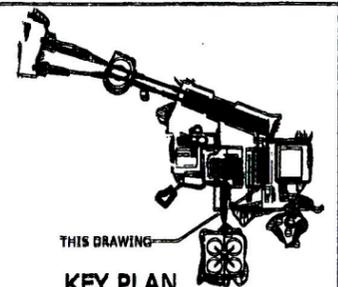


ISOMETRIC VIEW
ISOMETRIC VIEW



OVERALL LAYOUT
OVERALL LAYOUT

WBI: 331000AAB2, 331000AAB6, 331060AAB2, 331000AAB1, 331000AAB4



KEY PLAN CLAVE

REV.	DATE	REVISION DESCRIPTION	APP. CH.	APPROVED	REV.	DATE	REVISION DESCRIPTION	APP. CH.	APPROVED	REV.	DATE	REVISION DESCRIPTION
A	18JAN13	ISSUED FOR SQUAD CHECK (COMBINED REVIEW) ENTRADO PARA REVISION MULTIDISCIPLINARIA/ENAMEN COMBINADO.	CH									
B		ISSUED FOR CLIENT REVIEW - NOT USED ENTRADO PARA LA REVISION DEL CLIENTE - NO UTILIZADO	CH									
C		ISSUED FOR APPROVAL - NOT USED ENTRADO PARA APROBACION - NO UTILIZADO	CH									
D	28MAR13	ISSUED FOR CONSTRUCTION ENTRADO PARA CONSTRUCCION	AM									
1	18NOV13	IPC - REVISED AS NOTED ON DRAWING IPC - REVISED AS NOTED ON DRAWING	AM									
2	03APR14	IPC - DAYLINE IDENTIFICATION ADDED IPC - DAYLINE IDENTIFICATION ADDED	AM									

NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF FLUOR AND IS LOANED TO THE BORROWER FOR THEIR CONFIDENTIAL USE ONLY. AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT WILL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY OTHER PURPOSE OTHER THAN WHICH IT IS FURNISHED.

FLUOR

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVAL DATE	REVISED BY	APPROVAL DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVAL DATE
R. MORTABAY	M. LOEVEN	G. WONG	28MAR13	R. THORPE	28MAR13	A. KING	N/A	N/A	N/A

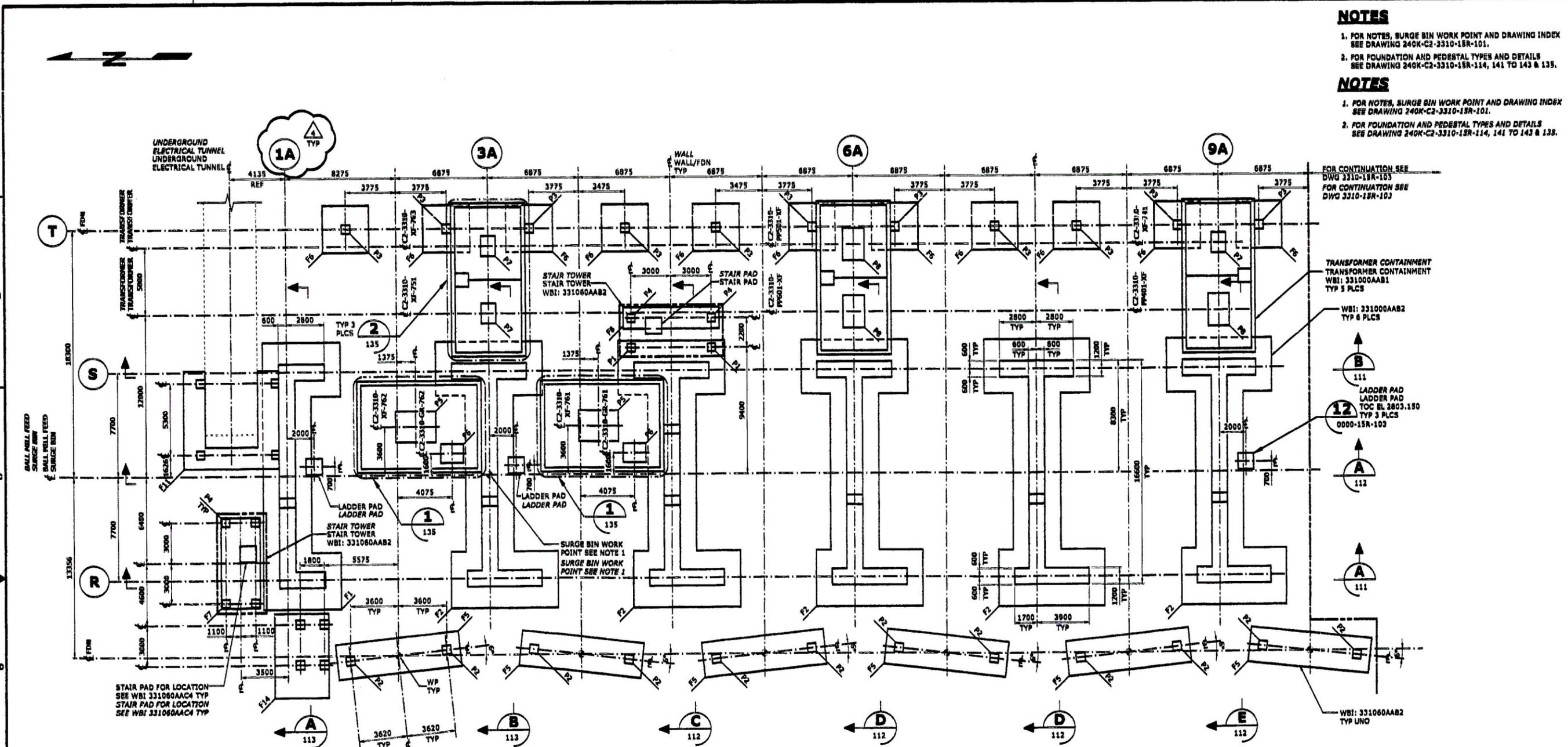
SCALE: NTS
DRAWING NUMBER: 240K-C2-3310-15R-101
REV: 2

NOTES

- FOR NOTES, SURGE BIN WORK POINT AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.
- FOR FOUNDATION AND PEDESTAL TYPES AND DETAILS SEE DRAWING 240K-C2-3310-15R-114, 141 TO 143 & 135.

NOTES

- FOR NOTES, SURGE BIN WORK POINT AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.
- FOR FOUNDATION AND PEDESTAL TYPES AND DETAILS SEE DRAWING 240K-C2-3310-15R-114, 141 TO 143 & 135.



FOUNDATION PLAN
FOUNDATION PLAN

WBI: 331000AAB2, 331000AAB2, 331000AAB1

ENGLISH LANGUAGE SHALL GOVERN
LA LENGUA INGLESA TENDRA PRECEDENCIA

NO.	DATE	REVISION DESCRIPTION	APP. (DES)	APP. (PH)	APP. (CH)	APP. (SI)	APP. (ST)	APP. (OT)	REFERENCE DRAWING No.	REFERENCE DRAWINGS
A	14MAY13	ISSUED FOR COLLAP PERMIT EMITIDO PARA REVISION MULTIDISCIPLINARIA	RM	PH	CH	SI	ST	OT	232A-114	IPC - REVISED AS NOTED IPC - REVISED AS NOTED
B	03APR14	ISSUED FOR CLIENT REVIEW - NOT USED EMITIDO PARA LA REVISION DEL CLIENTE - NO UTILIZADO	RM	PH	CH	SI	ST	OT	03APR14	IPC - BAYLINE IDENTIFICATION ADDED IPC - BAYLINE IDENTIFICATION ADDED
C	28MAR13	ISSUED FOR APPROVAL - NOT USED EMITIDO PARA APROBACION - NO UTILIZADO	RM	PH	CH	SI	ST	OT		
D	28MAR13	ISSUED FOR CONSTRUCTION EMITIDO PARA CONSTRUCCION	RM	PH	CH	SI	ST	OT		
1	07JUN13	IPC - TRANSFORMER CONTAINMENT ADDED IPC - TRANSFORMER CONTAINMENT ADDED	RM	PH	CH	SI	ST	OT		
2	18NOV13	IPC - MISC FOUNDATION ADDED IPC - MISC FOUNDATION ADDED	RM	PH	CH	SI	ST	OT		

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FLUOR

DESIGNED BY E. JARRAZAVI	DRAWN BY M. LOEWEN	DATE 28MAR13	SCALE 1:150	DRAWING NUMBER 240K-C2-3310-15R-102	REV. 4
CHECKED BY C. WONG	DATE 28MAR13	APPROVAL DATE 28MAR13	SCALE 1:150	DRAWING NUMBER 240K-C2-3310-15R-102	REV. 4
LEAD ENGINEER/DESIGNER P. HAAGEN	DATE 28MAR13	APPROVAL DATE 28MAR13	SCALE 1:150	DRAWING NUMBER 240K-C2-3310-15R-102	REV. 4
ENGINEER/DESIGNER A. KING	DATE 28MAR13	APPROVAL DATE 28MAR13	SCALE 1:150	DRAWING NUMBER 240K-C2-3310-15R-102	REV. 4
CLIENT N/A	DATE N/A	APPROVAL DATE N/A	SCALE 1:150	DRAWING NUMBER 240K-C2-3310-15R-102	REV. 4

ACCIDENTS HURT - SAFETY DOESNT.

ACCIDENTES DUELEN, LA SEGURIDAD NO

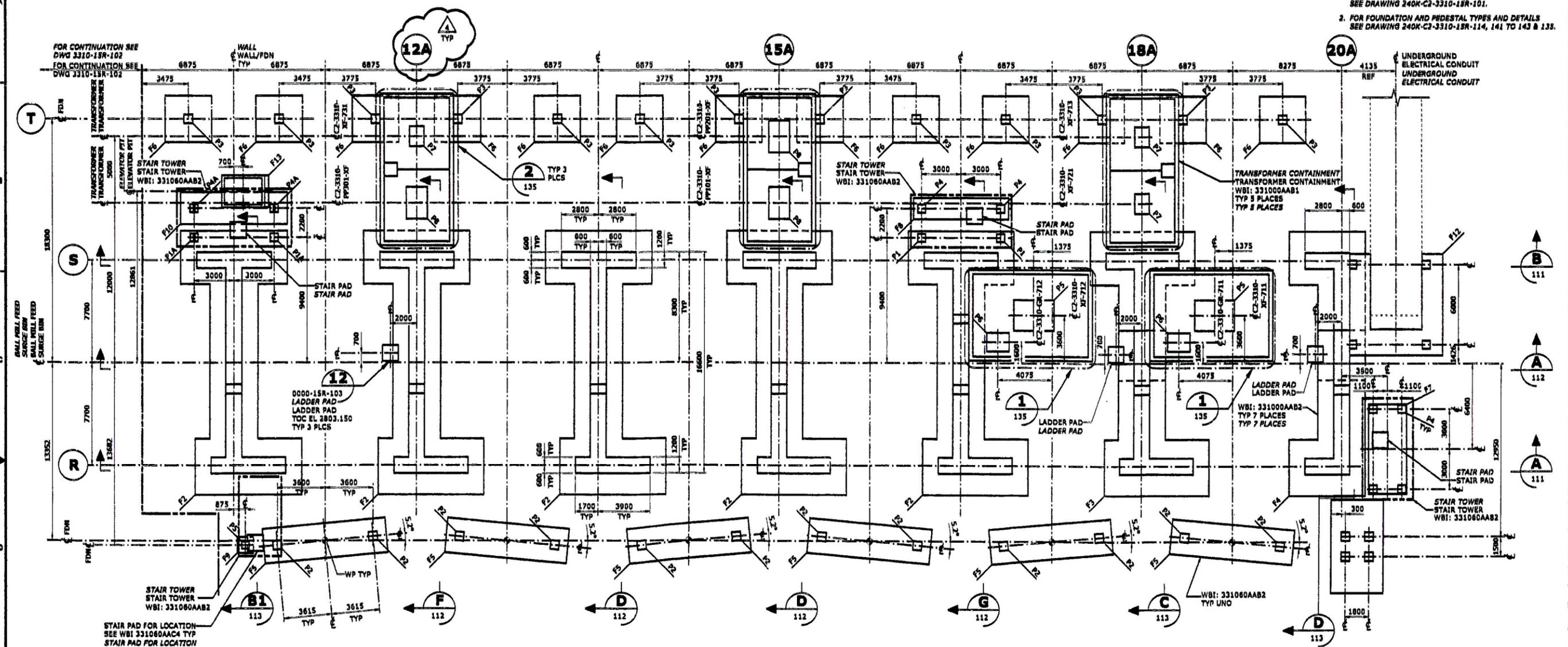
NOTE: THIS DRAWING WAS GENERATED FROM SMARTPLAN 3D

NOTES

- FOR NOTES, SURGE BIN WORK POINT AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.
- FOR FOUNDATION AND PEDESTAL TYPES AND DETAILS SEE DRAWING 240K-C2-3310-15R-114, 141 TO 143 & 135.

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- FOR FOUNDATION AND PEDESTAL TYPES AND DETAILS SEE DRAWING 240K-C2-3310-15R-114, 141 TO 143 & 135.



**FOUNDATION PLAN
FOUNDATION PLAN**

WBI: 331000AAB2, 331060AAB2, 331000AAB1

ENDUEN LANGUAGE SHALL GOVERN
LA LENGUA INGLESA TENDRA PRECEDENCIA

REV	DATE	REVISION DESCRIPTION	APP'D	APPROVED	DATE	REVISION DESCRIPTION	APP'D	APPROVED	REFERENCE DRAWING No.	REFERENCE DRAWINGS
A	15JAN12	ISSUED FOR CLIENT REVIEW - NOT USED EMITIDO PARA REVISIÓN MULTIDISCIPLINARIA	RM	PH	3	IPC - REVISED AS NOTED IPC - REVISED AS NOTED	RM	PH	N/A	
B	03APR14	ISSUED FOR APPROVAL - NOT USED EMITIDO PARA LA REVISIÓN DEL CLIENTE - NO UTILIZADO	RM	PH	4	IPC - BAYLINE IDENTIFICATION ADDED IPC - BAYLINE IDENTIFICATION ADDED	RM	PH	N/A	
C	28MAR13	ISSUED FOR CONSTRUCTION EMITIDO PARA CONSTRUCCIÓN	RM	PH			RM	PH		
1	07JUN13	IPC - TRANSFORMER CONTAINMENT ADDED IPC - TRANSFORMER CONTAINMENT ADDED	RM	PH			RM	PH		
2	16NOV13	IPC - MISC FOUNDATION ADDED IPC - MISC FOUNDATION ADDED	RM	PH			RM	PH		

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FLUOR

REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

APPROVED: [Signature]

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVAL DATE
R. MORTAZAVI	M. LUYVEN	W. TUNO	28MAR13
P. HAAGEN			28MAR13
R. THORPE			28MAR13
A. KING			28MAR13

SCALE: 1:150
DRAWING NUMBER: 240K-C2-3310-15R-103
REV: 4

3310 HOLD TABLE
3310 HOLD TABLE

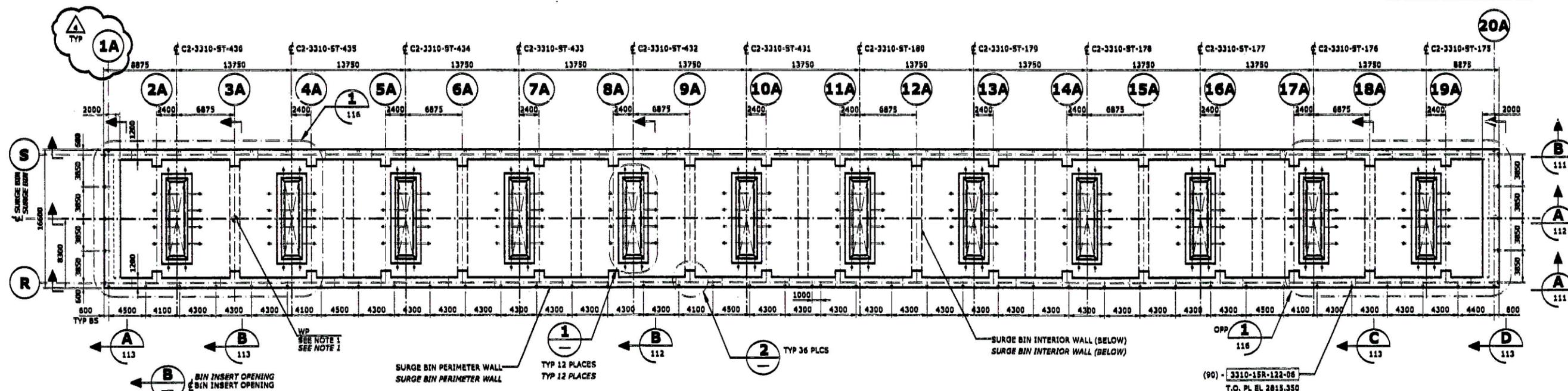
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4	REDESIGN OF CONCRETE TO COME	1H	STRUCT	2
	REDESIGN OF CONCRETE TO COME			

NOTES

1. FOR NOTES, SURGE BIN WORK POINT AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.

NOTES

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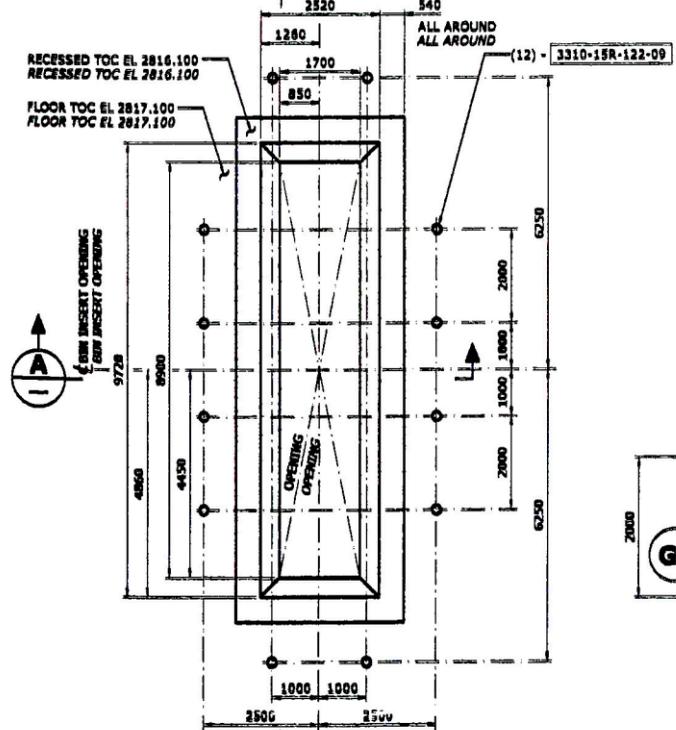


SURGE BIN FLOOR PLAN

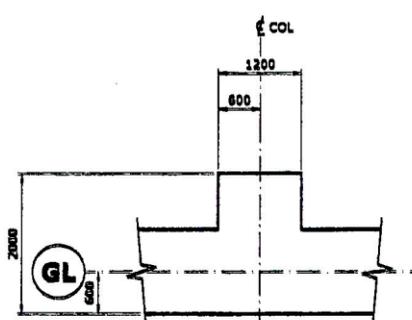
TOC EL 2817.100 UNO

SURGE BIN FLOOR PLAN

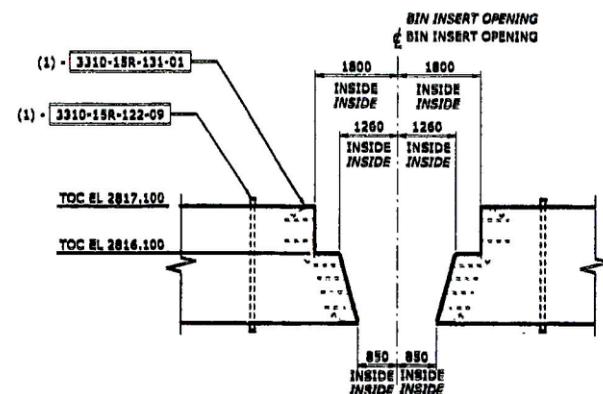
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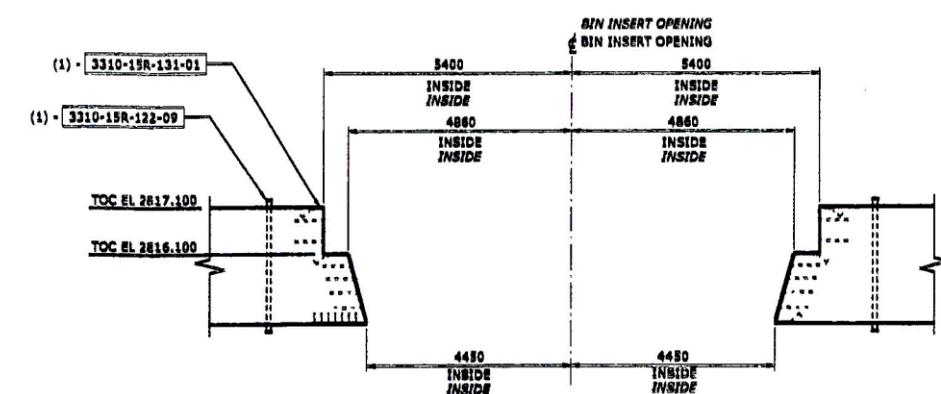
DETAIL
SCALE = 1:75
DETAIL
SCALE = 1:75



DETAIL
SCALE = 1:50
DETAIL
SCALE = 1:50



SECTION
SCALE = 1:75
SECTION
SCALE = 1:75



SECTION
SCALE = 1:75
SECTION
SCALE = 1:75

WBI: 331000AAB2, 331000AAB4

ENGLISH LANGUAGE SHALL GOVERN
LA LENGUA INGLESA TENDRA PRECEDENCIA

REV	DATE	REVISION DESCRIPTION	DESIGN	APPROVED	REV	DATE	REVISION DESCRIPTION	DESIGN	APPROVED	REFERENCE DRAWING NO.	REFERENCE DRAWING
A	02/04/13	ISSUED FOR BIDDING - C.C.O.P. EMITIDO PARA REVISION MULTIDISCIPLINARIA	PH	PH	3	24/NOV/12	IPC - EMBED PLATE BRACING REVISED IPC - EMBED PLATE BRACING REVISED	PH	PH		
B	03/07/13	ISSUED FOR CLIENT REVIEW - NOT USED EMITIDO PARA LA REVISION DEL CLIENTE - NO UTILIZADO	PH	PH	4	03/APR/14	IPC - BAYLINE IDENTIFICATION ADDED IPC - BAYLINE IDENTIFICATION ADDED	PH	PH		
C	03/07/13	ISSUED FOR APPROVAL - NOT USED EMITIDO PARA APROBACION - NO UTILIZADO	PH	PH							
D	03/07/13	ISSUED FOR CONSTRUCTION EMITIDO PARA CONSTRUCCION	PH	PH							
1H	03/07/13	IPC - OPENINGS REVISED / HOLD ADDED IPC - OPENINGS REVISED / HOLD ADDED	PH	PH							
2	11/07/13	IPC - HOLD REMOVED/COL LOCATIONS REVISED IPC - HOLD REMOVED/COL LOCATIONS REVISED	PH	PH							

**SOCIEDAD ANONIMA
CERRO VERDE S.A.S.**

CERRO VERDE PRODUCTION UNIT EXPANSION

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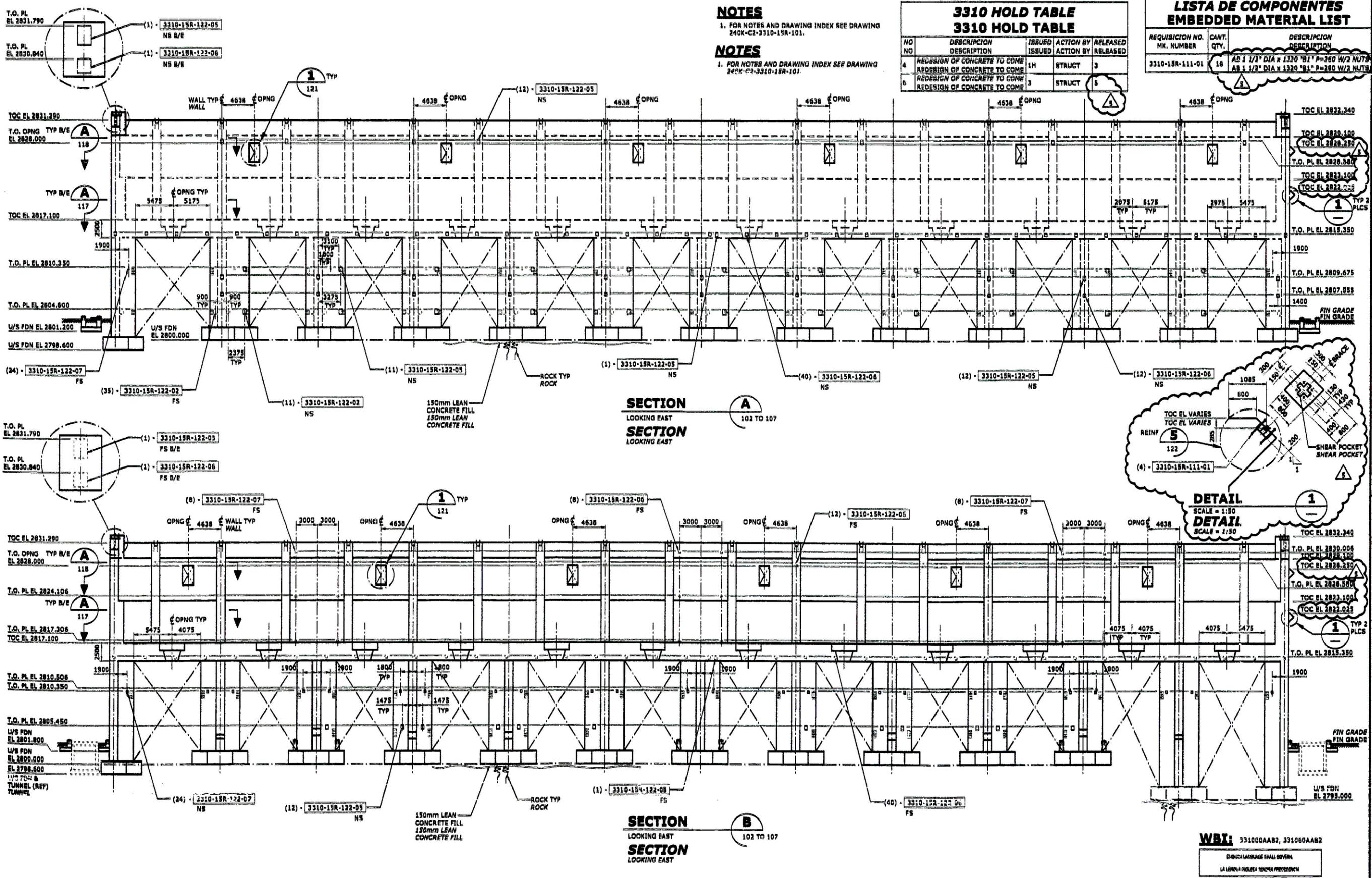
FLUOR

DESIGNED BY R. MORTAZAVI	DRAWN BY M. LOEWEN	CHECKED BY G. WONG	INSTRUMENTED BY W. TUNO
LEADER/ENGINEER/PROJECT P. HAAGEN	APPROVAL DATE 28/MAR/13	REVISOR R. THORPE	APPROVAL DATE 28/MAR/13
ENGINEERING MANAGER A. KING	APPROVAL DATE 28/MAR/13	CLIENT N/A	APPROVAL DATE N/A

SCALE: 1:250
DRAWING NUMBER: 240K-C2-3310-15R-106
REV: 4

MANUAL CHANGES MADE - YES NO

NOTE: THIS DRAWING WAS GENERATED FROM SMARTPLANT 3D



NOTES
1. FOR NOTES AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.

NOTES
1. FOR NOTES AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.

3310 HOLD TABLE			
NO	DESCRIPTION	ISSUED	ACTION BY
4	REDESIGN OF CONCRETE TO COME	1H	STRUCT
5	REDESIGN OF CONCRETE TO COME	3	STRUCT
6	REDESIGN OF CONCRETE TO COME	3	STRUCT

LISTA DE COMPONENTES EMBEDDED MATERIAL LIST		
REQUISICION NO. MK. NUMBER	CANT. QTY.	DESCRIPCION DESCRIPTION
3310-15R-111-01	18	AS 1 1/2" DIA X 1320 "B1" P=260 W/2 NUTS AS 1 1/2" DIA X 1320 "B1" P=260 W/2 NUTS

REV.	DATE	REVISION DESCRIPTION	DESIGNED	CHECKED	APPROVED	DATE	REVISION DESCRIPTION	DESIGNED	CHECKED	APPROVED	DATE	REFERENCE DRAWING NO.	REFERENCE DRAWINGS
A	18JAN15	ISSUED FOR CLIENT CHECK EMITIDO PARA REVISIÓN DEL CLIENTE/REVISIÓN	RM	PH	RM	18JAN15	IPC - HOLD RELEASED/NOT ADDED IPC - HOLD RELEASED/NOT ADDED	RM	PH	RM	18JAN15		
B	28NOV13	ISSUED FOR CLIENT REVIEW - NOT USED EMITIDO PARA LA REVISIÓN DEL CLIENTE - NO UTILIZADO	RM	PH	RM	28NOV13	IPC - EMBED PLATE QTY'S REVISED IPC - EMBED PLATE QTY'S REVISED	RM	PH	RM	28NOV13		
C	04FEB14	ISSUED FOR APPROVAL - NOT USED EMITIDO PARA APROBACIÓN - NO UTILIZADO	RM	PH	RM	04FEB14	IPC - HOLD RELEASED IPC - HOLD RELEASED	RM	PH	RM	04FEB14		
D	28MAR13	ISSUED FOR CONSTRUCTION EMITIDO PARA CONSTRUCCIÓN	RM	PH	RM	28MAR13		RM	PH	RM	28MAR13		
1H	03SEP13	IPC - HOLD ADDED	RM	PH	RM	03SEP13		RM	PH	RM	03SEP13		
1H	13SEP13	IPC - EMBED PLATE MARKS REVISED IPC - EMBED PLATE MARKS REVISED	RM	PH	RM	13SEP13		RM	PH	RM	13SEP13		

GRUPO VERDE PRODUCTION UNIT EXPANSION

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FLUOR

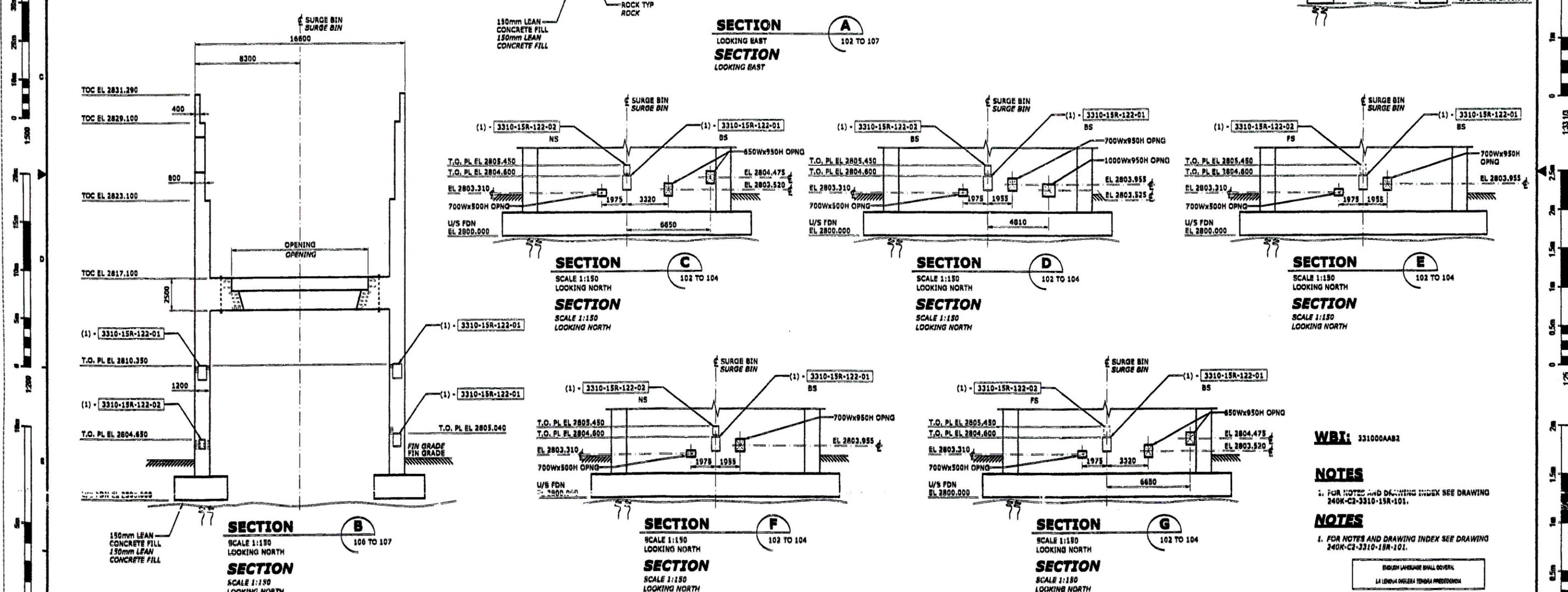
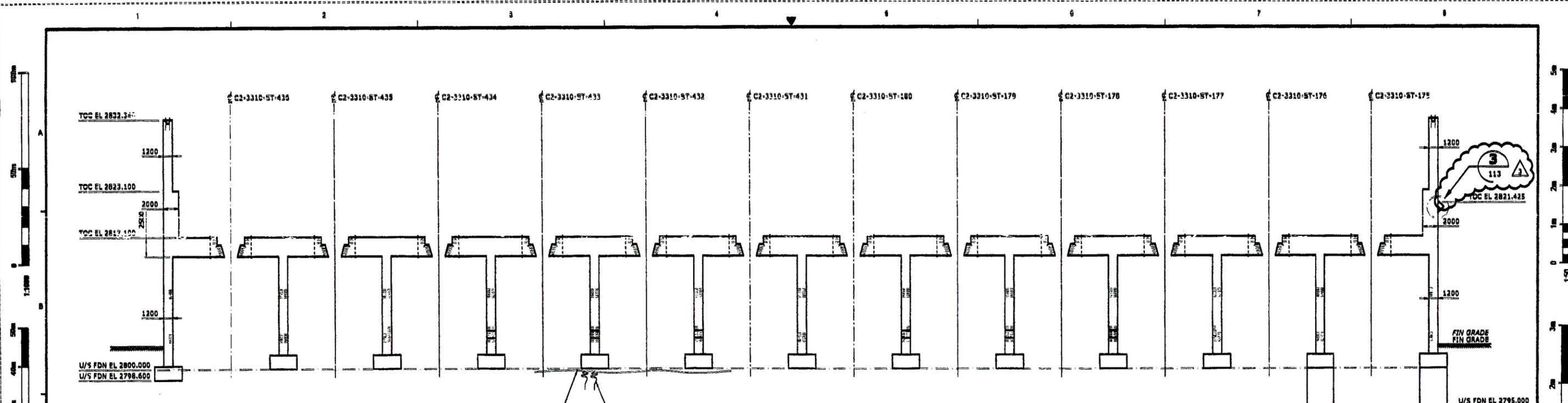
DESIGNED BY	DRAWN BY	DATE	SCALE	DRAWING NUMBER	REV.
R. HORTAZAVI	H. LEWEN	28MAR13	1:250	240K-C2-3310-15R-111	5

GRINDING BALL MILL FEED SURGE BIN SECTIONS AND DETAILS SH 1

GRINDING BALL MILL FEED SURGE BIN SECTIONS AND DETAILS SH 2

MANUAL CHANGES MADE: YES NO

NOTE: THIS DRAWING WAS GENERATED FROM SMARTPLANT 3D



WBI: 331000AAB2

NOTES

1. FOR NOTES AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.

NOTES

1. FOR NOTES AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.

ENGLISH LANGUAGE SHALL PREVAIL.
LA LENGUA INGLESA TENDRÁ PRECEDENCIA

REV.	DATE	REVISION DESCRIPTION	DES.	APPROVED	REV.	DATE	REVISION DESCRIPTION	DES.	APPROVED	REFERENCE DRAWING NO.	REFERENCE DRAWINGS
A	14JAN13	ISSUED FOR SQUAD CHECK ENTREGADO PARA REVISIÓN DEL CLIENTE - NO UTILIZADO	BM	PH	1	04FEB14	IPC - SECTION CALL OUT REVISED IPC - SECTION CALL OUT REVISED	BM	PH		
B		ISSUED FOR CLIENT REVIEW - NOT USED ENTREGADO PARA REVISIÓN DEL CLIENTE - NO UTILIZADO									
C		ISSUED FOR APPROVAL - NOT USED ENTREGADO PARA APROBACIÓN - NO UTILIZADO									
D	28MAR13	ISSUED FOR CONSTRUCTION ENTREGADO PARA CONSTRUCCIÓN	BM	PH	BT						
1	17SEP17	IPC - EMBED PLATE MARKS REVISED IPC - EMBED PLATE MARKS REVISED	BM	PH							
2	18NOV17	IPC - TOC ELEVATION REVISED IPC - TOC ELEVATION REVISED	BM	PH							

PROYECTO DE EXPANSIÓN DE LA UNIDAD DE PRODUCCIÓN DE PÓLVORA

NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF FLUOR AND IS LOANED TO THE BORROWER FOR THEIR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT WILL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY OTHER PURPOSE OTHER THAN WHICH IT IS FURNISHED.

FLUOR

DESIGNED BY R. MORALES	DRAWN BY M. LOEVEN
CHECKED BY G. WONG	OVERSEEN BY G. WONG
LEAD ENGINEER(SUPPLIER) R. HAAGEN	APPROVAL DATE 28MAR13
DESIGNER R. THORPE	APPROVAL DATE 28MAR13
ENGINEERING MANAGER A. KING	APPROVAL DATE 28MAR13
CLIENT N/A	APPROVAL DATE N/A

SCALE: 1:250

DRAWING NUMBER: 240K-C2-3310-15R-112

REV: 3

MANUAL CHANGES MADE: YES NO

NOTE: THIS DRAWING WAS GENERATED FROM SMARTPLANT 3D

NOTES

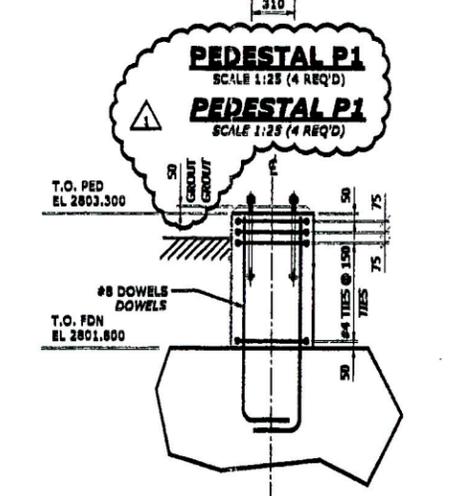
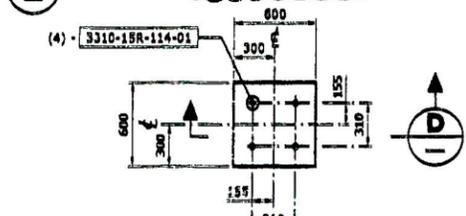
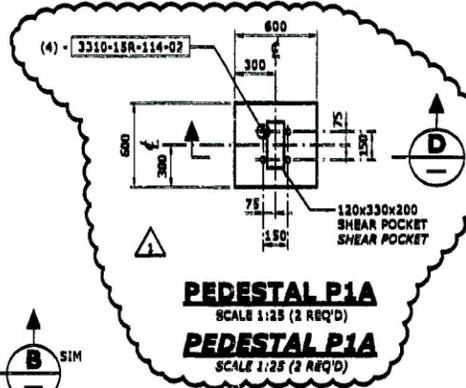
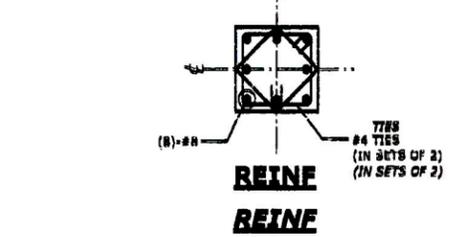
1. FOR NOTES AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.

NOTES

1. FOR NOTES AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.

**LISTA DE COMPONENTES
EMBEDDED MATERIAL LIST**

REQUISICION NO. MK. NUMBER	CANT. QTY.	DESCRIPTION
3310-15R-114-01	16	AR 1" DIA X 710 "B1" P=168 W/ 3 NUTS
3310-15R-114-02	8	AR 1" DIA X 710 "B1" P=168 W/ 3 NUTS
3310-15R-114-03	8	AR 1 3/4" DIA X 950 "B1" P=180 W/ 3 NUTS

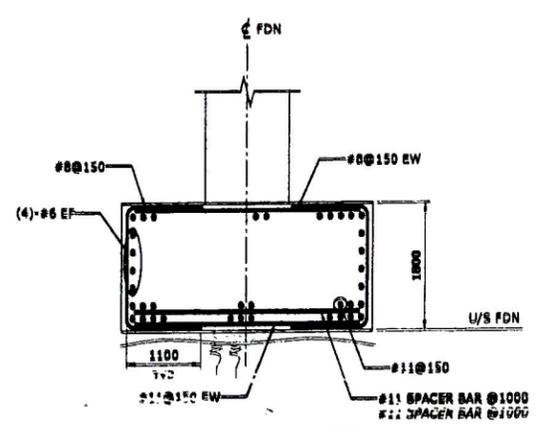


FOUNDATION F1
FOUNDATION F1

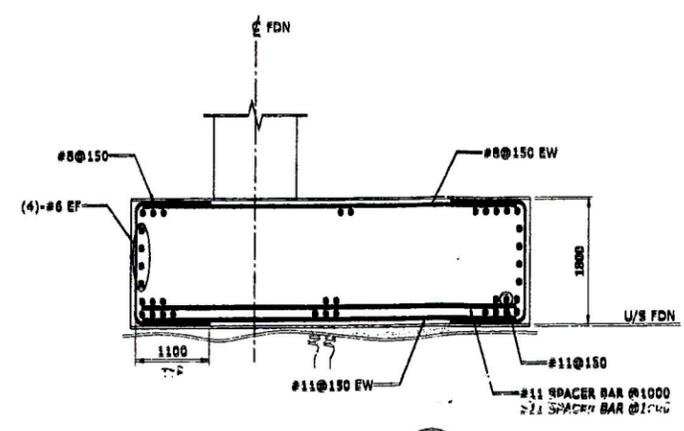
FOUNDATION F2
(10 REQ'D)
FOUNDATION F2
(10 REQ'D)

FOUNDATION F3
FOUNDATION F3

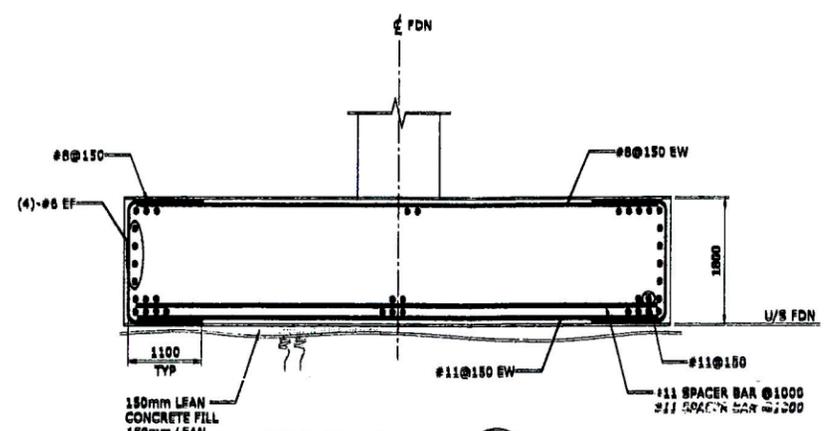
FOUNDATION F4
FOUNDATION F4



SECTION A
SCALE = 1:50
SECTION A
SCALE = 1:50



SECTION B
SCALE = 1:50
SECTION B
SCALE = 1:50



SECTION C
SCALE = 1:50
SECTION C
SCALE = 1:50

REV.	DATE	BY	CHKD.	APPROVED	REVISION DESCRIPCION	REFERENCE DRAWING No.	REFERENCE DRAWING
A	20JAN13				ISSUED FOR CLIENT CHECK EMITIDO PARA REVISION MULTIDISCIPLINARIA		
B					ISSUED FOR CLIENT REVIEW - NOT USED EMITIDO PARA LA REVISION DEL CLIENTE - NO UTILIZADO		
C					ISSUED FOR APPROVAL - NOT USED EMITIDO PARA APROBACION - NO UTILIZADO		
D	28MAR13				ISSUED FOR CONSTRUCTION EMITIDO PARA CONSTRUCCION		
1	18NOV13				IPC - PEDESTAL DETAIL REVISED IPC - PEDESTAL DETAIL REVISED		

DESIGNED BY: R. MORTAZAVI
DRAWN BY: J. LOEWEN
CHECKED BY: G. WAGNER
DATE: 28MAR13
APPROVAL DATE: 28MAR13
DESIGNED BY: P. MAAGEN
DATE: 28MAR13
APPROVAL DATE: 28MAR13
DESIGNED BY: A. KING
DATE: 28MAR13
APPROVAL DATE: 28MAR13

FLUOR

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WBI: 331000AAB2

ENGLISH LANGUAGE SHALL GOVERN
LA LENGUA INGLESA TENDRA PRECEDENCIA

GRINDING BALL MILL FEED SURGE BIN
SECTIONS AND DETAILS SH 4

GRINDING BALL MILL FEED SURGE BIN
SECTIONS AND DETAILS SH 4

SCALE: 1:100
DRAWING NUMBER: 240K-C2-3310-15R-114
REV: 1

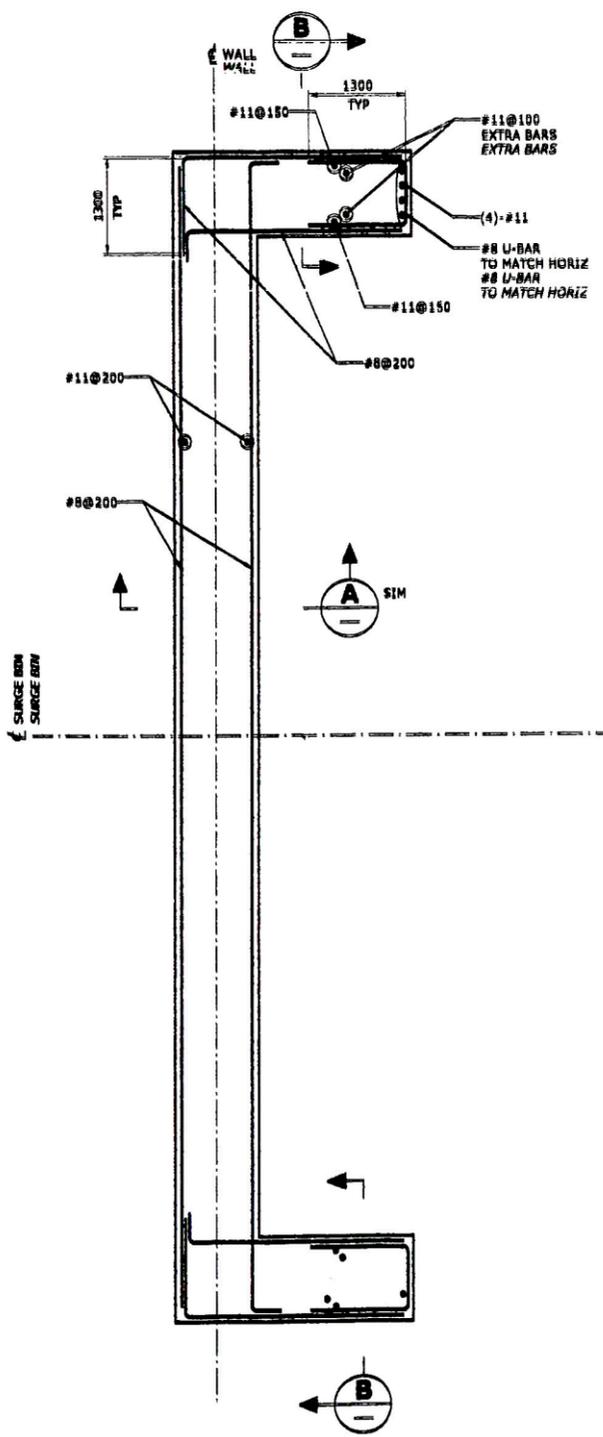
NOTE: THIS DRAWING WAS GENERATED FROM SMARTPLAN 9.0

NOTES

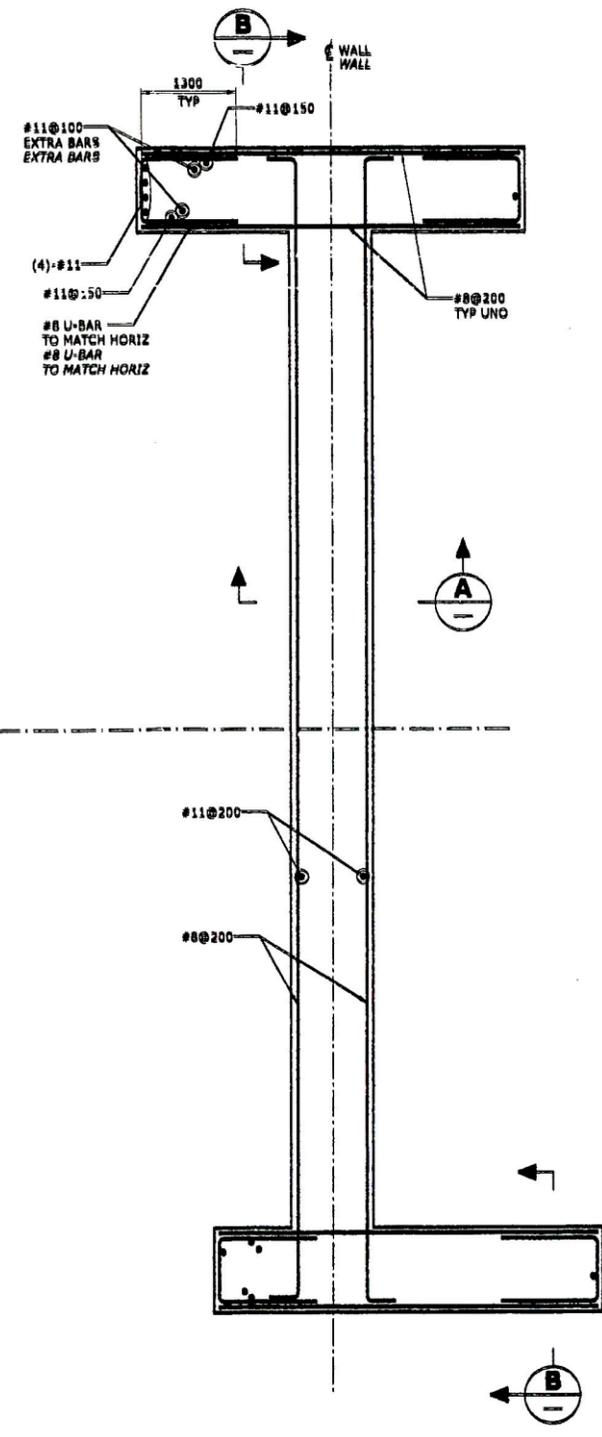
1. FOR NOTES, SURGE BIN WORK POINT AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.

NOTES

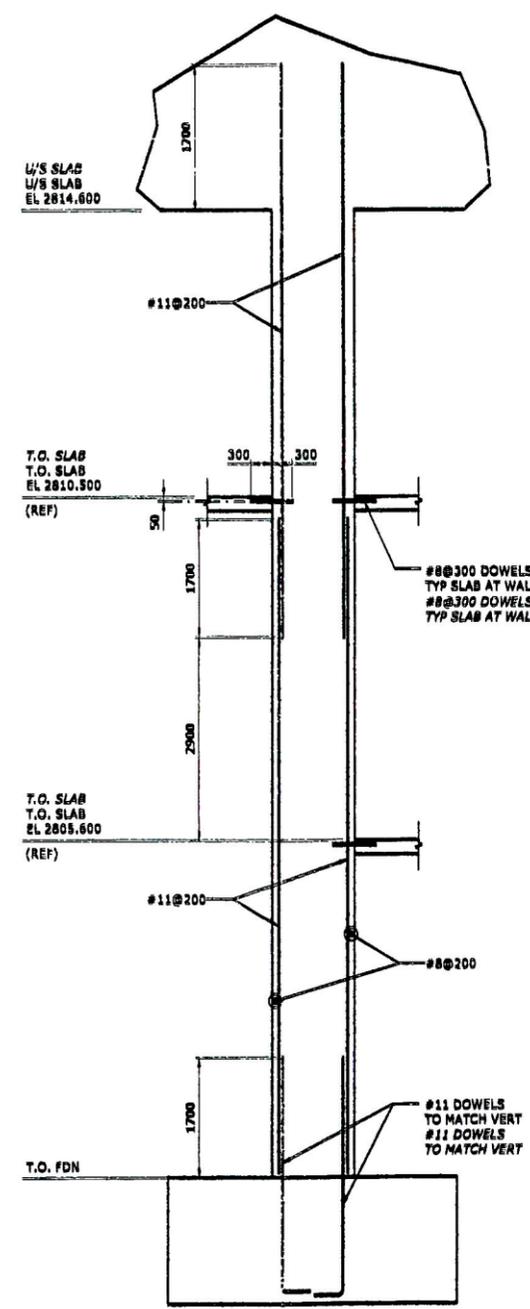
1. FOR NOTES, SURGE BIN WORK POINT AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.



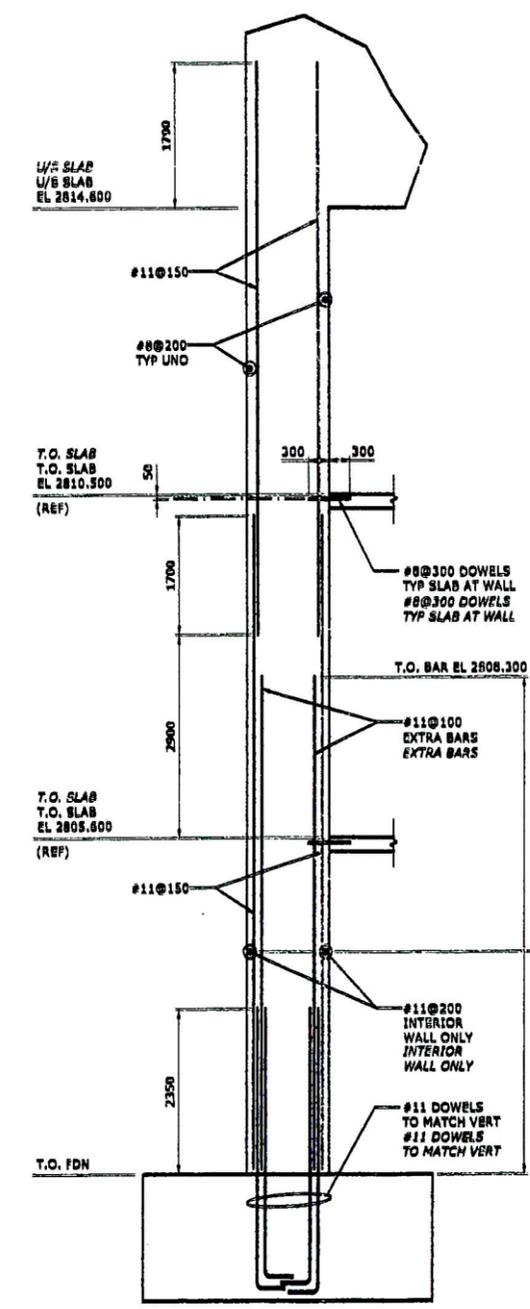
NORTH & SOUTH END WALL REINFORCING
NORTH & SOUTH END WALL REINFORCING



TYPICAL INTERIOR WALL REINFORCING
TYPICAL INTERIOR WALL REINFORCING



SECTION A
LOOKING EAST
SECTION A
LOOKING EAST



SECTION B
LOOKING NORTH/SOUTH
SECTION B
LOOKING NORTH/SOUTH

WBI: 331000A82

PUBLISHED LANGUAGE SHALL GOVERN
LA LENGUA INGLESA TIENE PRECEDENCIA

REV.	DATE	REVISION DESCRIPTION	DESIGNED	APPROVED	REV.	DATE	REVISION DESCRIPTION	DESIGNED	APPROVED	REFERENCE DRAWING No.	REFERENCE DRAWINGS
A	12/20/11	ISSUED FOR BIDDING CHECK	RM	PH							
B		ISSUED FOR CLIENT REVIEW - NOT USED									
C		ISSUED FOR APPROVAL - NOT USED									
D	28/MAR/13	ISSUED FOR CONSTRUCTION	RM	PH							

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FLUOR

DESIGNED BY	R. MORTAZAVI	DRAWN BY	M. LOEYEN
DESIGN CHECKED	E. WONG	ENGINEERING MANAGER	A. KING
LEAD ENGINEER/SUPERVISOR	F. HAAGEN	APPROVAL DATE	28/MAR/13
DESIGNER	R. THORPE	APPROVAL DATE	28/MAR/13
CLIENT	N/A	APPROVAL DATE	28/MAR/13
MANUAL CHANGES MADE	YES	NO	

GRINDING
BALL MILL FEED
SURGE BIN
SECTIONS AND DETAILS SH 5

GRINDING
BALL MILL FEED
SURGE BIN
SECTIONS AND DETAILS SH 5

SCALE: 1:50
DRAWING NUMBER: 240K-C2-3310-15R-115
REV: 0

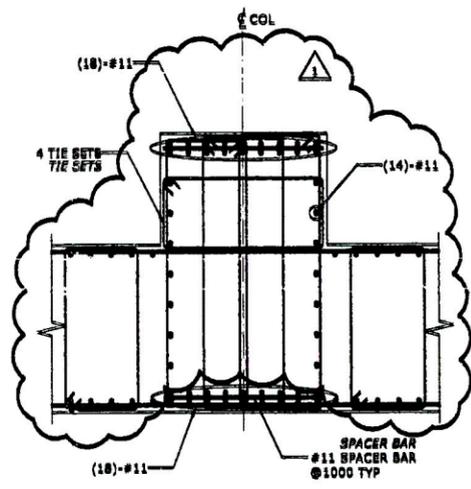
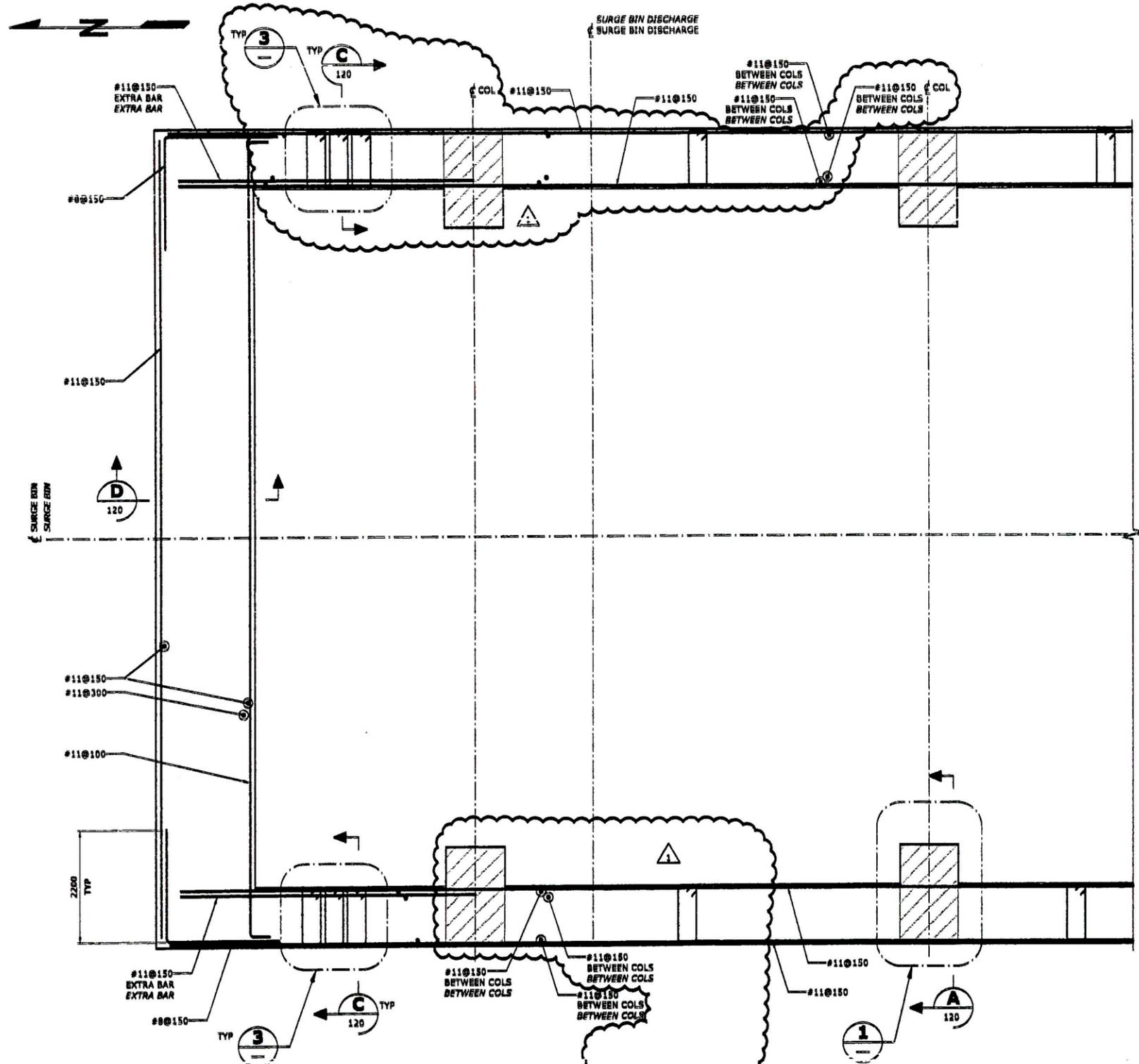
NOTE: THIS DRAWING WAS GENERATED FROM SMARTPLANT 3D

NOTES

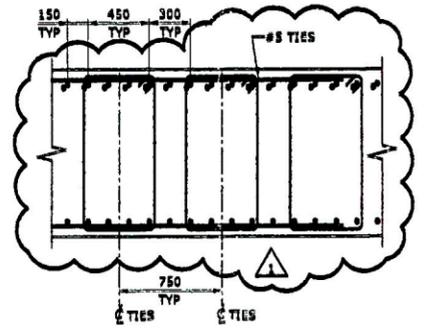
1. FOR NOTES, SURGE BIN WORK POINT AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.

NOTES

1. FOR NOTES, SURGE BIN WORK POINT AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.



DETAIL 1
SCALE = 1:25



DETAIL 3
SCALE = 1:25

PARTIAL PLAN - WALL REINFORCEMENT AT T.O.C. EL 2823.100
PARTIAL PLAN - WALL REINFORCEMENT AT T.O.C. EL 2823.100

SECTION A
111

WBI: 331000AAB2

BRAND LANGUAGE SHALL GOVERN
LA LINGUA ENLESA TENDRA PRECEDENCIA

REV	DATE	DESCRIPTION	DESIGNER	APPROVED	REV	DATE	DESCRIPTION	DESIGNER	APPROVED	REFERENCE DRAWING No.	REFERENCE DRAWINGS
A	18MAR13	ISSUED FOR CLIENT REVIEW EMITIDO PARA REVISION MULTIDISCIPLINARIA	BM	PH							
B		ISSUED FOR CLIENT REVIEW - NOT USED EMITIDO PARA LA REVISION DEL CLIENTE - NO UTILIZADO									
C		ISSUED FOR APPROVAL - NOT USED EMITIDO PARA APROBACION - NO UTILIZADO									
D	28MAR13	ISSUED FOR CONSTRUCTION EMITIDO PARA CONSTRUCCION	BM	PH							
E	11OCT13	IPC - COL LOCATIONS REVISED/REBAR REVISED IPC - COL LOCATIONS REVISED/REBAR REVISED	CW	PH							

NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF FLUOR AND IS LOANED TO THE BORROWER FOR THEIR CONFIDENTIAL USE ONLY. AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT WILL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY OTHER PURPOSE OTHER THAN WHICH IT IS FURNISHED.

FLUOR

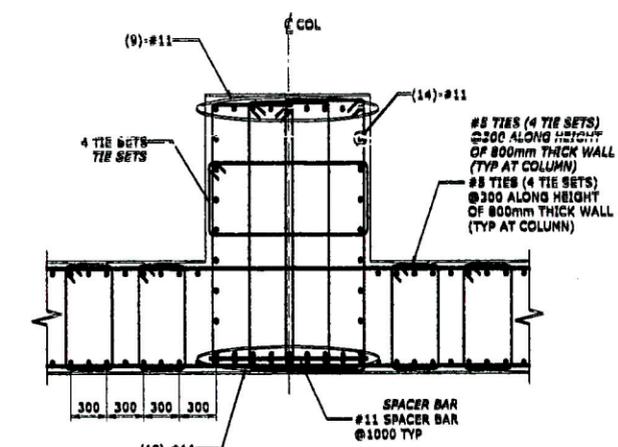
DESIGNED BY R. HORTARANT	DRAWN BY M. LOEWEN	GRINDING BALL MILL FEED SURGE BIN SECTIONS AND DETAILS SH 7
CHECK DESIGN G. WONG	CHECK DRAWING W. TURTZO	GRINDING BALL MILL FEED SURGE BIN SECTIONS AND DETAILS SH 7
LOW ENGINEERING (TYPICAL) P. HAAGEN	APPROVAL DATE 28MAR13	SCALE 1:50
DESIGNER R. THORPE	APPROVAL DATE 28MAR13	DRAWING NUMBER 240K-C2-3310-15R-117
ENGINEERING MANAGER A. KING	APPROVAL DATE 28MAR13	REV 1
DATE N/A	APPROVAL DATE N/A	MANUAL CHANGES MADE YES <input type="checkbox"/> NO <input type="checkbox"/>

NOTES

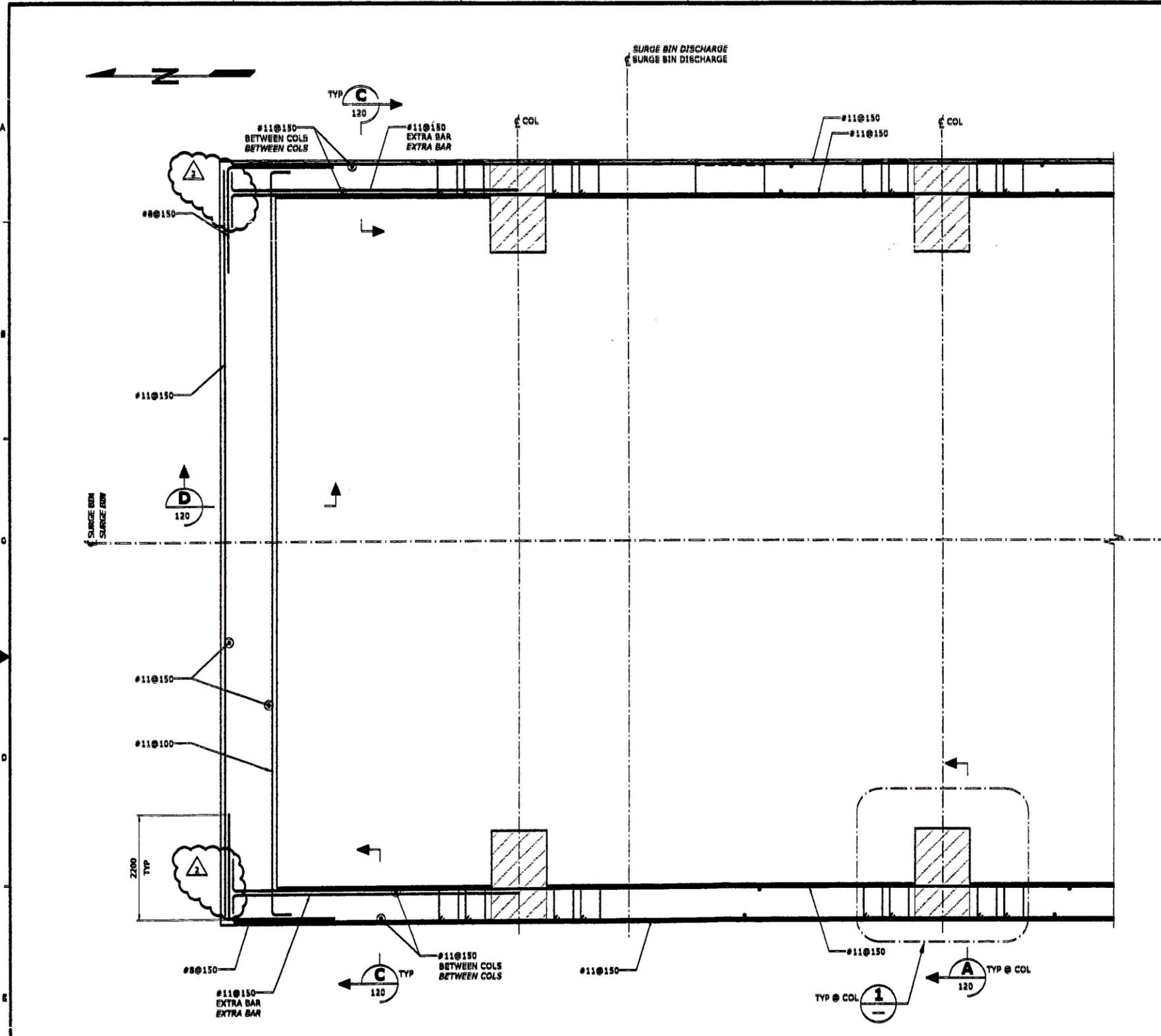
1. FOR NOTES, SURGE BIN WORK POINT AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.

NOTES

1. FOR NOTES, SURGE BIN WORK POINT AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.



DETAIL
SCALE = 1:25
DETAIL
SCALE = 1:25



PARTIAL PLAN - WALL REINFORCEMENT AT T.O.C. EL 2829.100
PARTIAL PLAN - WALL REINFORCEMENT AT T.O.C. EL 2829.100

SECTION **A**
111

WBI: 331000AAB2

ENGLISH LANGUAGE SHALL GOVERN
LA LENGUA INGLESA TENDRA PRECEDENCIA

REV.	DATE	REVISION DESCRIPTION	DESIGNER	APPROVED	DATE	REVISION DESCRIPTION	DESIGNER	APPROVED	DATE	REFERENCE DRAWING NO.	REFERENCE DESCRIPTION
A	16JAN13	ISSUED FOR CLIENT REVIEW ENTRADO PARA REVISION MULTIDISCIPLINARIA	PH	PH							
B		ISSUED FOR CLIENT REVIEW - NOT USED ENTRADO PARA LA REVISION DEL CLIENTE - NO UTILIZADO									
C		ISSUED FOR APPROVAL - NOT USED ENTRADO PARA APROBACION - NO UTILIZADO									
D		ISSUED FOR CONSTRUCTION ENTRADO PARA CONSTRUCCION	PH	PH							
1	11OCT12	IPC - COL LOCATIONS REVISED/REBAR REVISED IPC - COL LOCATIONS REVISED/REBAR REVISED	NM	PH							
2	18NOV12	IPC - REBAR REVISED IPC - REBAR REVISED	NM	PH							

SOCIODATA MINETA
Cerro Verde S.A.S

CERRO VERDE PRODUCTION UNIT EXPANSION

DESIGNED BY M. MURFAZAVI	DRAWN BY M. LOEWEN
CHECKED BY E. M. JACO	PROJECT ENGINEER W. TUNO
LEAD ENGINEER/PROJECT MGR. P. HAAGEN	APPROVAL DATE 28MAR13
REVIEWER R. THORPE	APPROVAL DATE 28MAR13
ENGINEERING MANAGER A. KING	APPROVAL DATE 28MAR13
CLIENT N/A	APPROVAL DATE N/A

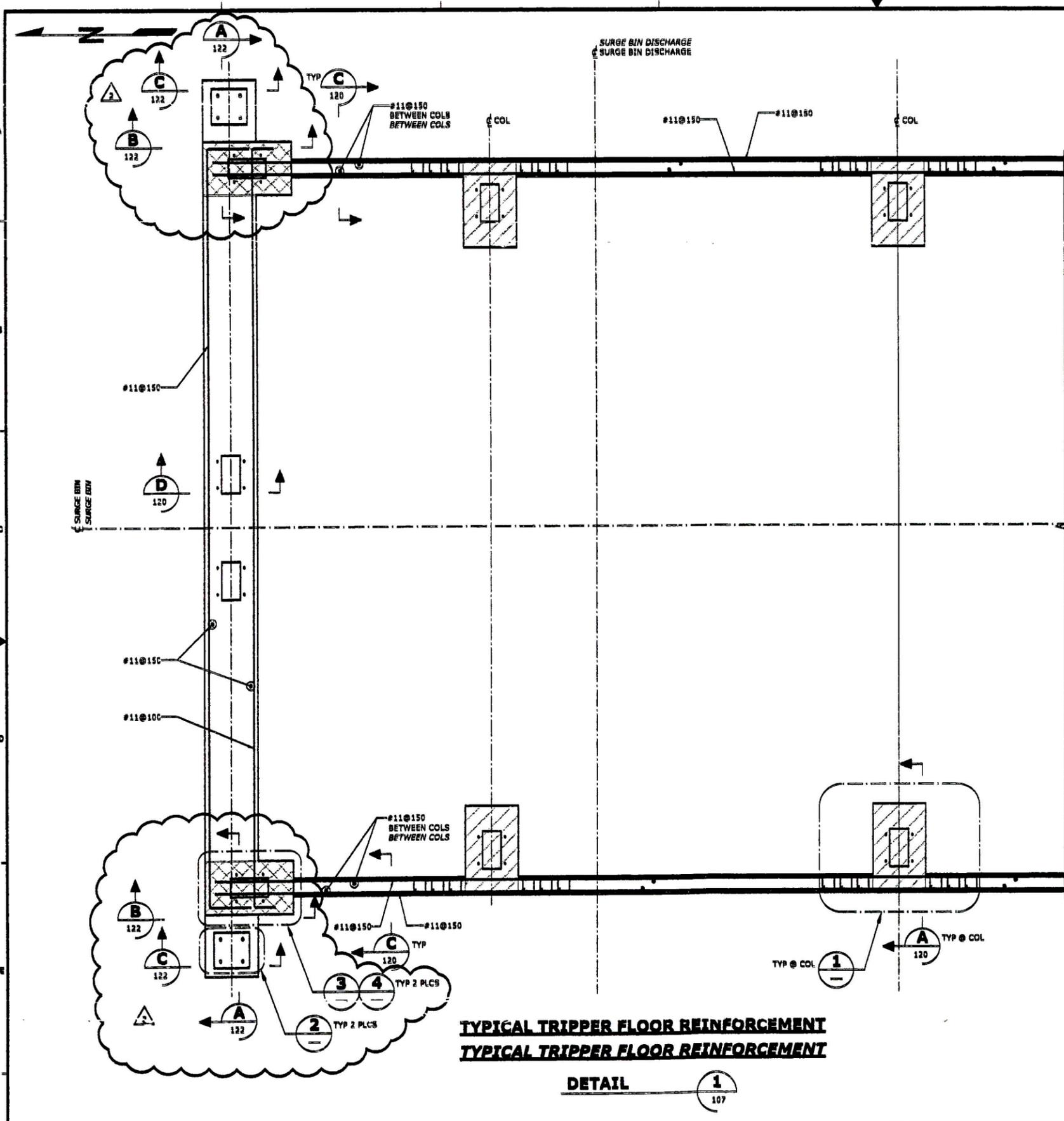
FLUOR

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SCALE: 1:50
DRAWING NUMBER: 240K-C2-3310-15R-118
REV: 2

MANUAL CHANGES MADE - YES NO

NOTE: THIS DRAWING WAS GENERATED FROM SMARTPLANT 3D



3310 HOLD TABLE

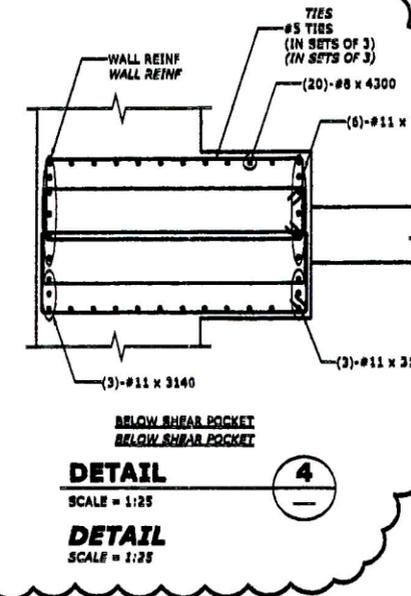
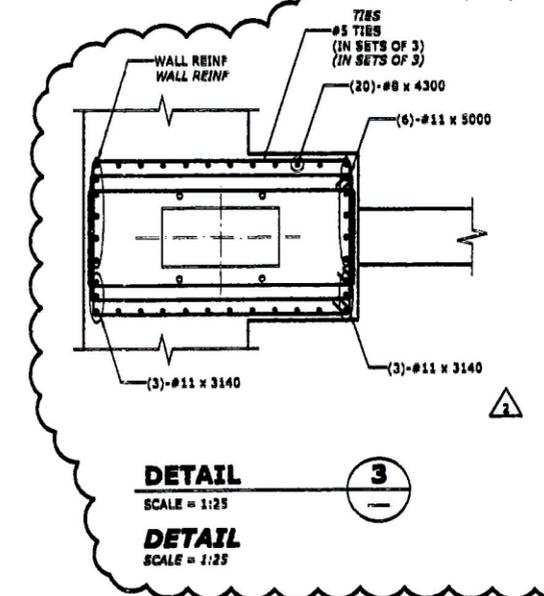
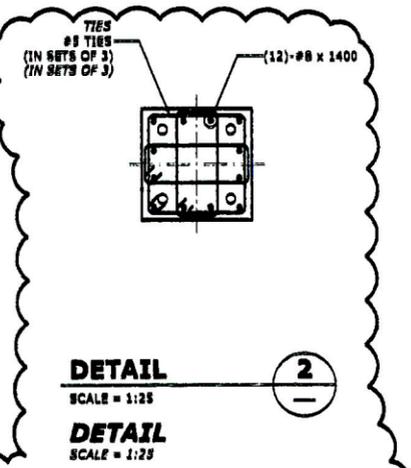
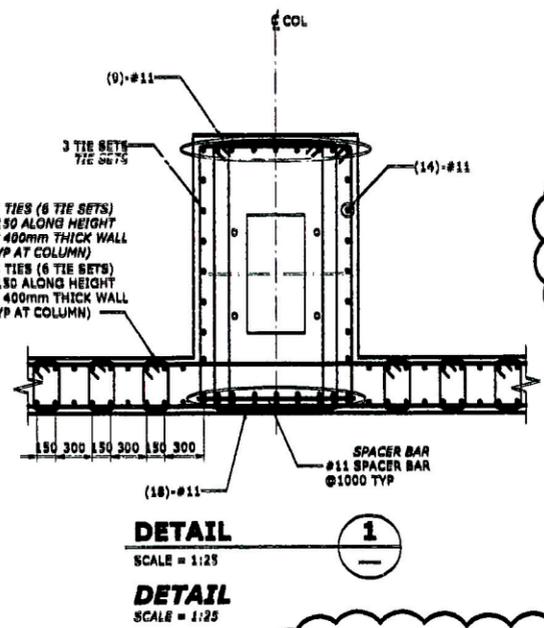
NO	DESCRIPTION	ISSUED	ACTION BY	RELEASED
5	REDESIGN OF CONCRETE TO COME	REV 1	STRUCT	2

NOTES

1. FOR NOTES AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.

NOTES

1. FOR NOTES AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.



TYPICAL TRIPPER FLOOR REINFORCEMENT

DETAIL 1
SCALE = 1:25

REV	DATE	REVISION DESCRIPTION	DESIGNER	APPROVED	REV	DATE	REVISION DESCRIPTION	DESIGNER	APPROVED	REFERENCE DRAWING NO.	REFERENCE DRAWINGS
A	16JAN13	ISSUED FOR CLIENT REVIEW - NOT USED EMITIDO PARA REVISION MULTIDISCIPLINARIA									
B		ISSUED FOR CLIENT REVIEW - NOT USED EMITIDO PARA LA REVISION DEL CLIENTE - NO UTILIZADO									
C		ISSUED FOR APPROVAL - NOT USED EMITIDO PARA APROBACION - NO UTILIZADO									
D	28MAR13	ISSUED FOR CONSTRUCTION EMITIDO PARA CONSTRUCCION	RM	PH							
1H	11OCT13	IPC - COL LOCATIONS REVISED (WITH HOLD)	RM	PH							
1J	18NOV13	IPC - HOLD RELEASED/DETAILS ADDED	RM	PH							

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FLUOR

DESIGNED BY S. MONTAZAVI	DRAWN BY M. LOEWEN	CHECKED BY W. TUNO	APPROVAL DATE 28MAR13
TEAM LEADER/SUPERVISOR P. HAAGEN	APPROVAL DATE 28MAR13	DESIGNED BY A. KING	APPROVAL DATE 28MAR13

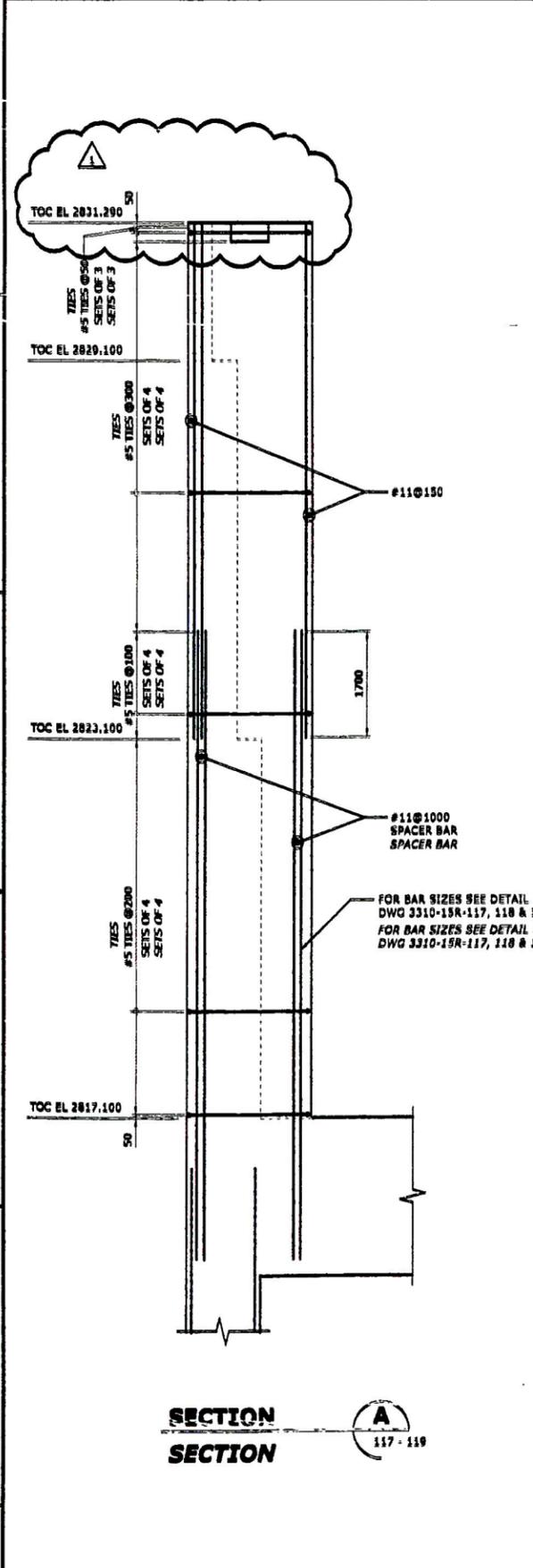
SCALE: 1:50

DRAWING NUMBER: 240K-C2-3310-15R-119

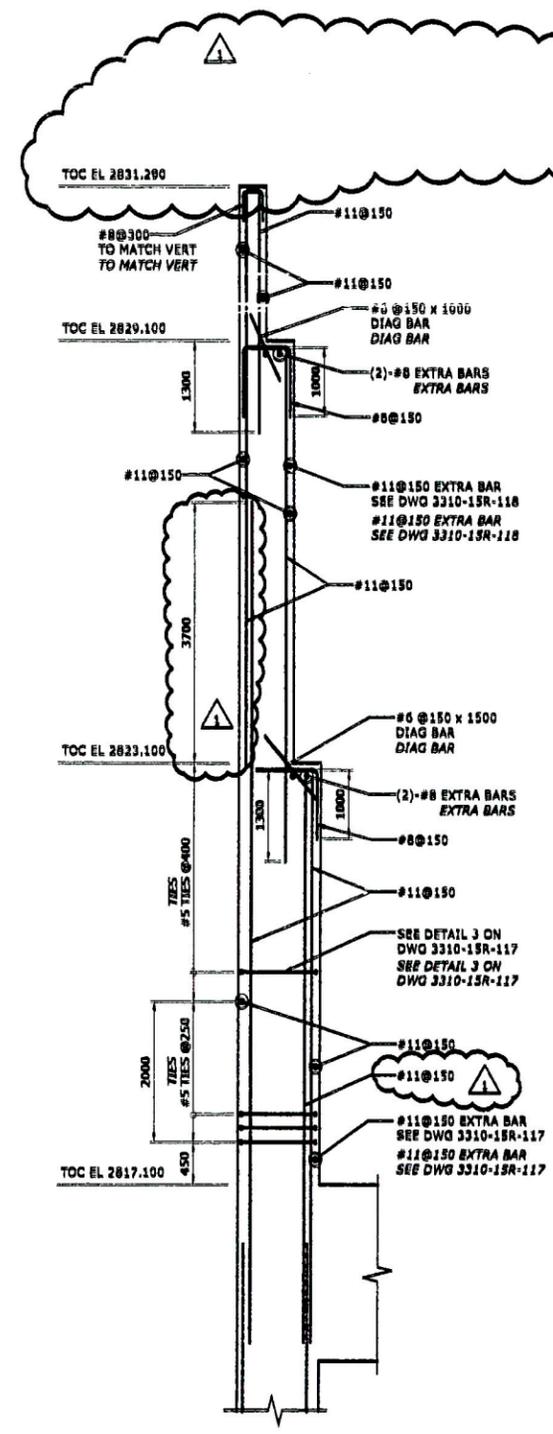
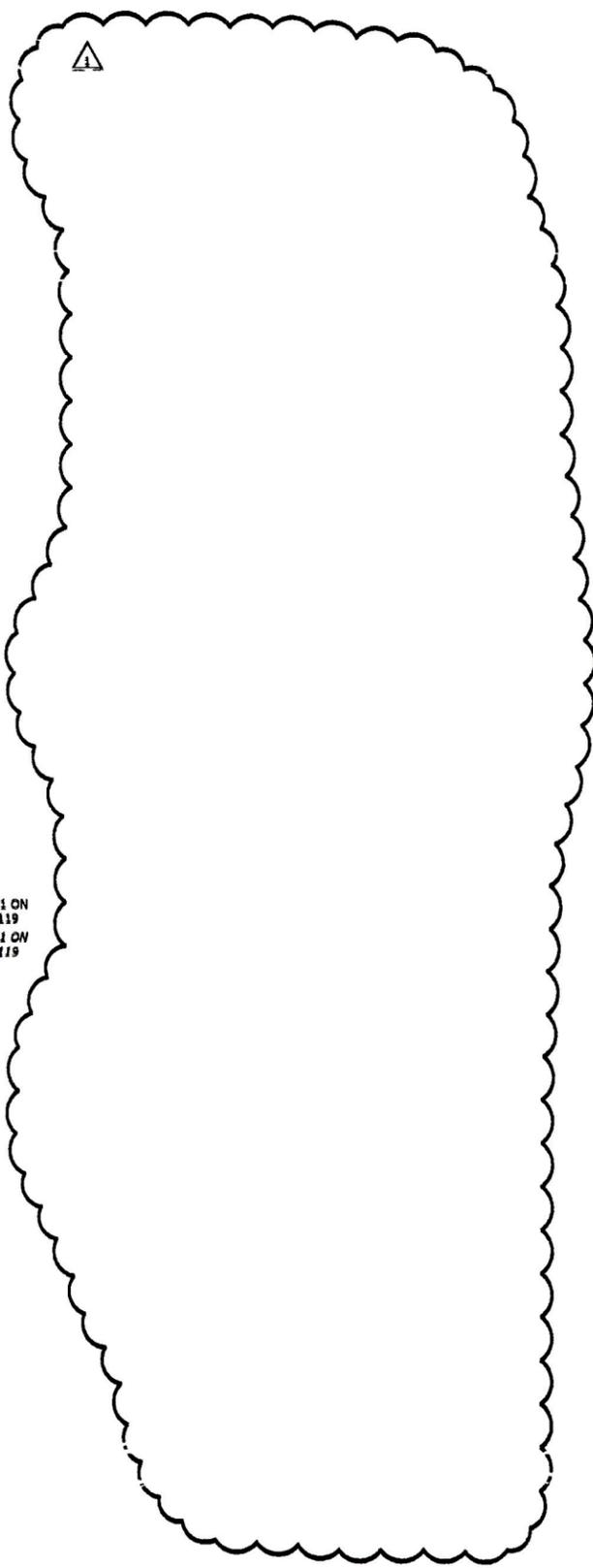
REV: 2

MANUAL CHANGES MADE: YES NO

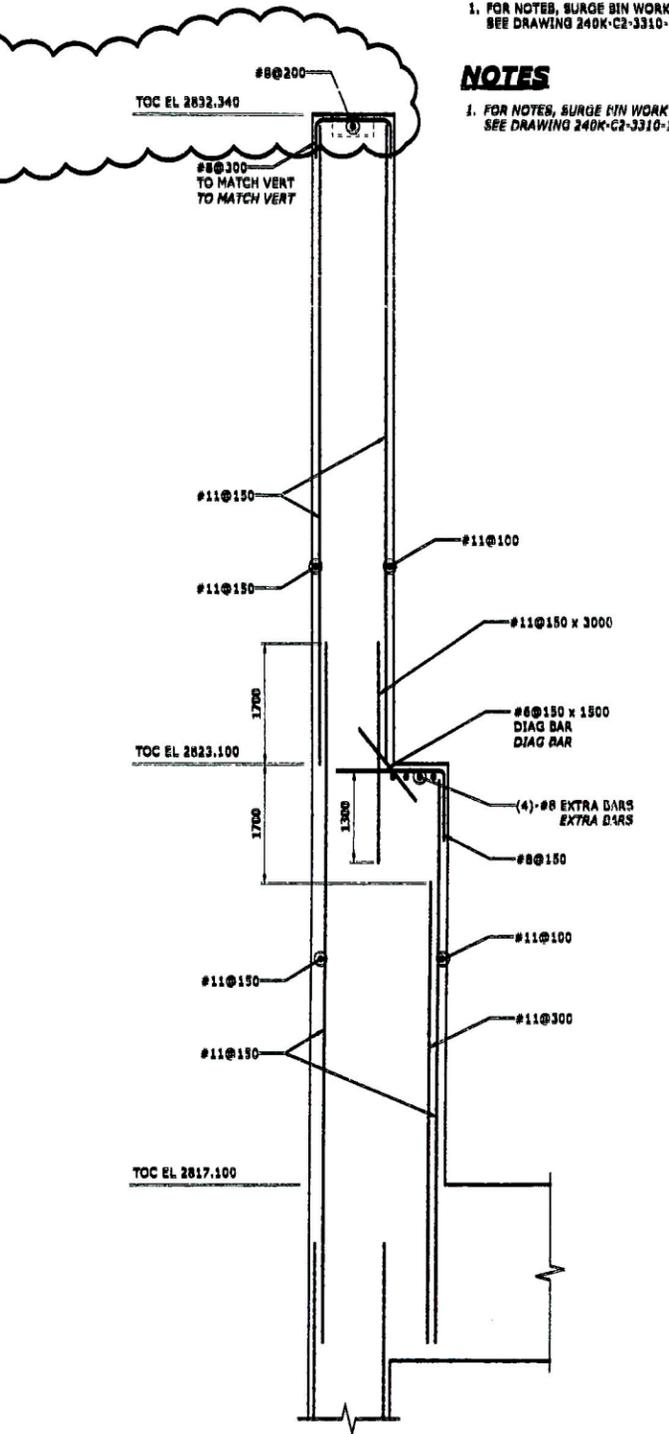
NOTE: THIS DRAWING WAS GENERATED FROM SMARTPLANT 3D



SECTION A
SECTION
117 - 119



SECTION C
SECTION
117 - 119



SECTION D
SECTION
117 - 119

NOTES
1. FOR NOTES, SURGE BIN WORK POINT AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.

NOTES
1. FOR NOTES, SURGE BIN WORK POINT AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.

WBI: 331000AAB2

ENGLISH LANGUAGE SHALL GOVERN
LA LENGUA INGLESA TENDRA PRECEDENCIA

REV	DATE	REVISION DESCRIPTION	APPROVED	DATE	REVISION DESCRIPTION	APPROVED	DATE	REFERENCE DRAWING NO.	REFERENCE DRAWING
A	16JAN13	ISSUED FOR CLIENT REVIEW - NOT USED ENTRADO PARA REVISION MULTIDISCIPLINARIA	PH						
B		ISSUED FOR CLIENT REVIEW - NOT USED ENTRADO PARA LA REVISION DEL CLIENTE - NO UTILIZADO	PH						
C		ISSUED FOR APPROVAL - NOT USED ENTRADO PARA APROBACION - NO UTILIZADO	PH						
D	28MAR13	ISSUED FOR CONSTRUCTION ENTRADO PARA CONSTRUCCION	PH						
1	11OCT13	IPC - SECTION 9 DELETED/REBAR REVISED IPC - SECTION 8 DELETED/REBAR REVISED	PH						

GRINDING
BALL MILL FEED
SURGE BIN
SECTIONS AND DETAILS SH 10

GRINDING
BALL MILL FEED
SURGE BIN
SECTIONS AND DETAILS SH 10

PROYECTO: EXPANSION DE LA UNIDAD DE PRODUCCION DE VINO DE CEREA
CORPO VERDE S.A.S.

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FLUOR

DESIGNED BY G. WONG	CHECKED BY W. TUNG	APPROVAL DATE 28MAR13	SCALE 1:50	DRAWING NUMBER 240K-C2-3310-15R-120	REV. 1
DESIGNED BY P. HAAGEN	CHECKED BY R. THORPE	APPROVAL DATE 28MAR13			
DESIGNED BY A. KING	CHECKED BY A. KING	APPROVAL DATE 28MAR13			

MANUAL CHANGES MADE - YES NO

NOTE: THIS DRAWING WAS GENERATED FROM SMARTPLANT 3D

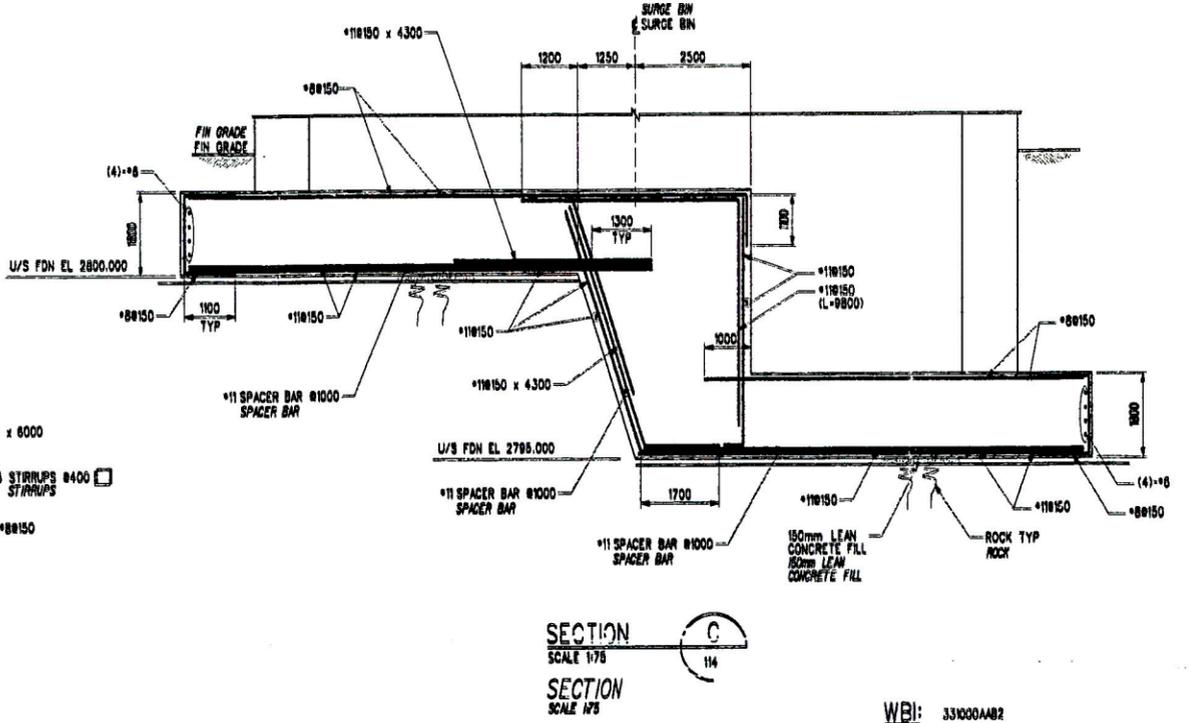
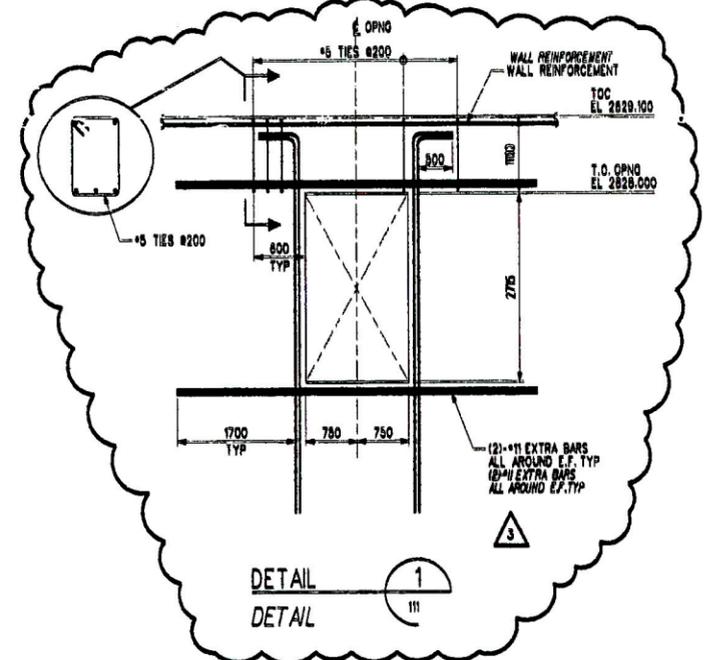
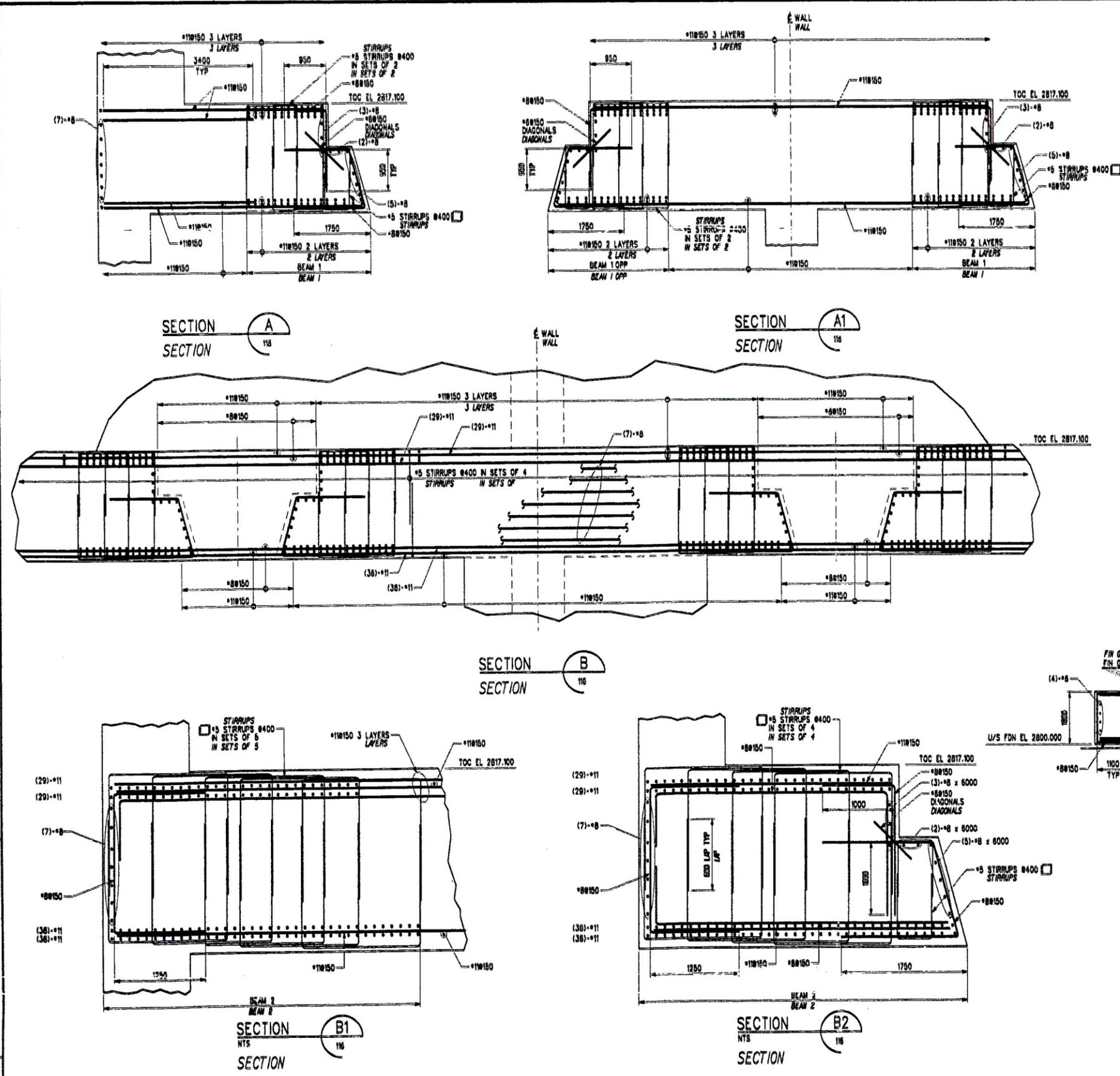
HOLD TABLE				
NO	DESCRIPTION	ISSUED	ACTION BY	RELEASED
1	PENDING TRAPPER STEEL LAYOUT	REV 0	STRUCT	J
2	PENDING TRAPPER STEEL LAYOUT	REV 0	STRUCT	J
3	PENDING DUST COLLECTOR LCGH	REV 0	STRUCT	J

NOTES:

- FOR NOTES AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.
- REINFORCING BARS TO BE ADJUSTED TO CLEAR AIR CANNON PIPES. SEE DRAWING 240K-C2-3310-15R-106 FOR LOCATION OF OPENINGS.

NOTAS:

- FOR NOTES AND DRAWING INDEX SEE DRAWING 240K-C2-3310-15R-101.
- REINFORCING BARS TO BE ADJUSTED TO CLEAR AIR CANNON PIPES. SEE DRAWING 240K-C2-3310-15R-106 FOR LOCATION OF OPENINGS.



WBI: 331000482
 IN CASE OF CONFLICT ENGLISH LANGUAGE TEXT SHALL GOVERN
 EN CASO DE CONFLICTO EL TEXTO EN INGLES TENDRA PRIORIDAD

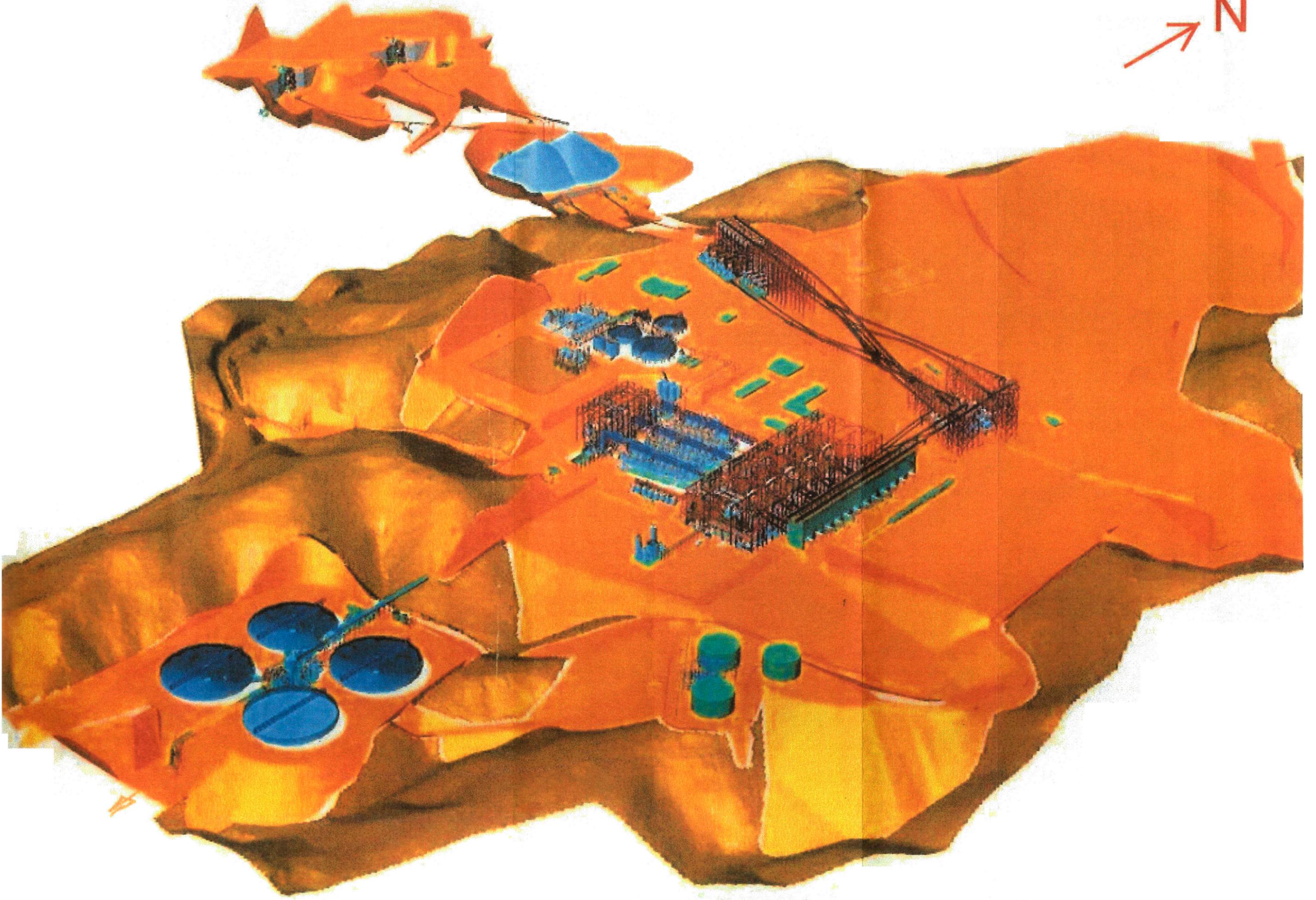
REV	DATE	REVISION DESCRIPTION	DESIGN	APPROVED	REV	DATE	REVISION DESCRIPTION	DESIGN	APPROVED	REFERENCE DRAWING No.	REFERENCE DRAWINGS
A	15JUN13	ISSUED FOR APPROVAL - NOT USED	RM	PH	3	15MAY13	FC - HOLD RELEASED/DETAILS REVISED	RM	PH		
B	28MAR13	ISSUED FOR CONSTRUCTION	RM	PH			FC - HOLD RELEASED/DETAILS REVISED	RM	PH		
C	03SEP13	FC - BIN OPENING REVISED	RM	PH				RM	PH		
D	11OCT13	FC - REBAR ADDED/SECTIONS REVISED (WITH HOLD)	RM	PH				RM	PH		

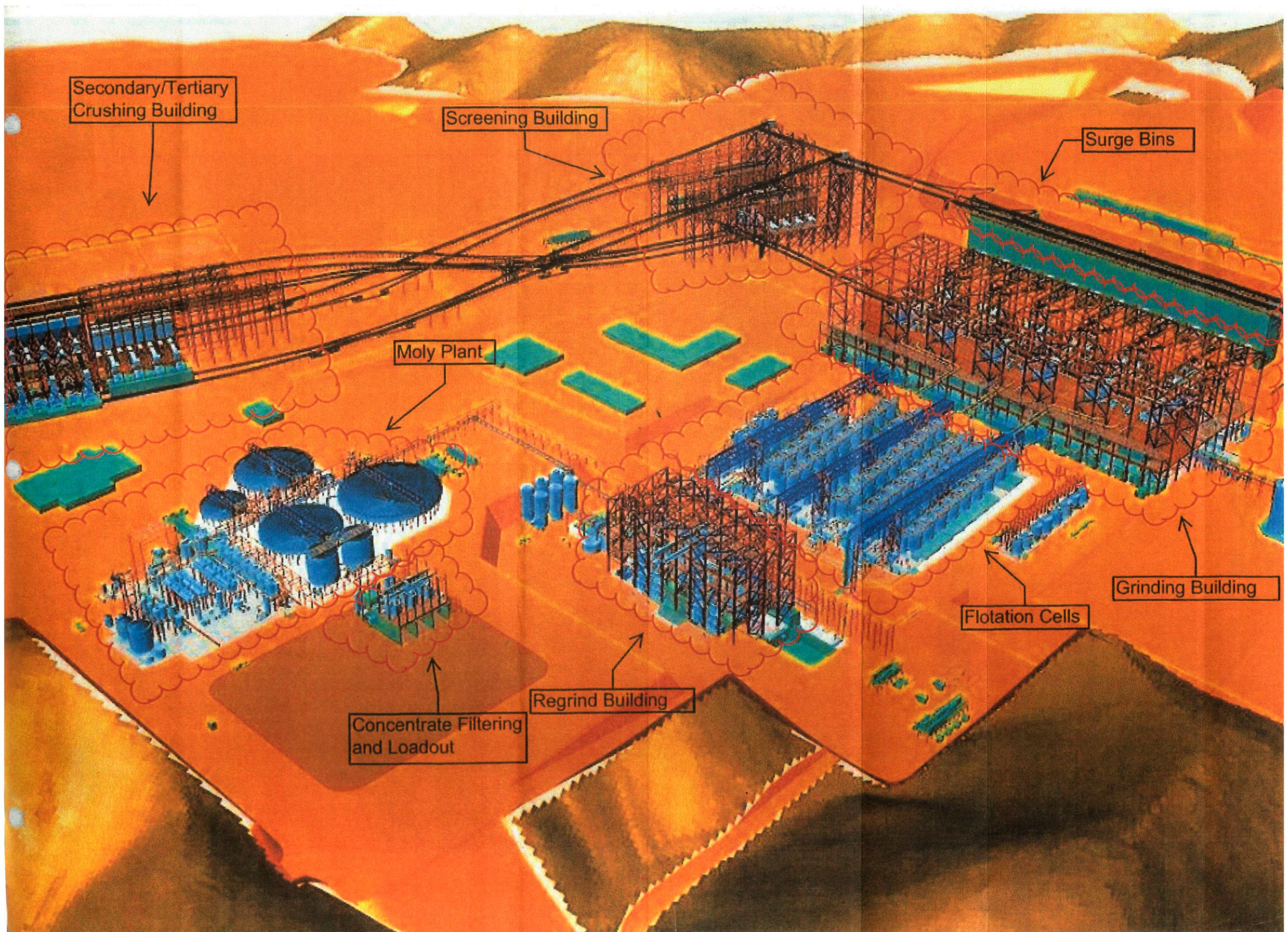
Cerro Verde
 NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF FLUOR AND IS LENT TO THE BORROWER FOR THEIR CONFIDENTIAL USE ONLY AND IN CONSIDERATION OF THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT WILL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS FURNISHED.

FLUOR
 DESIGNED BY: R. MORTAZAVI
 CHECKED BY: C. TUNG
 LEAD ENGINEER: P. HAAGEN
 AREA MANAGER: R. THORPE
 ENGINEERING SUPERVISOR: A. KING
 CLIENT: N/A

GRINDING BALL MILL FEED SURGE BIN
 SECTIONS AND DETAILS SH 11
 GRINDING BALL MILL FEED SURGE BIN
 SECTIONS AND DETAILS SH 11
 SCALE: 1:50 UNO
 DRAWING NUMBER: 240K-C2-3310-15R-121
 REV: 3

N





Secondary/Tertiary
Crushing Building

Screening Building

Surge Bins

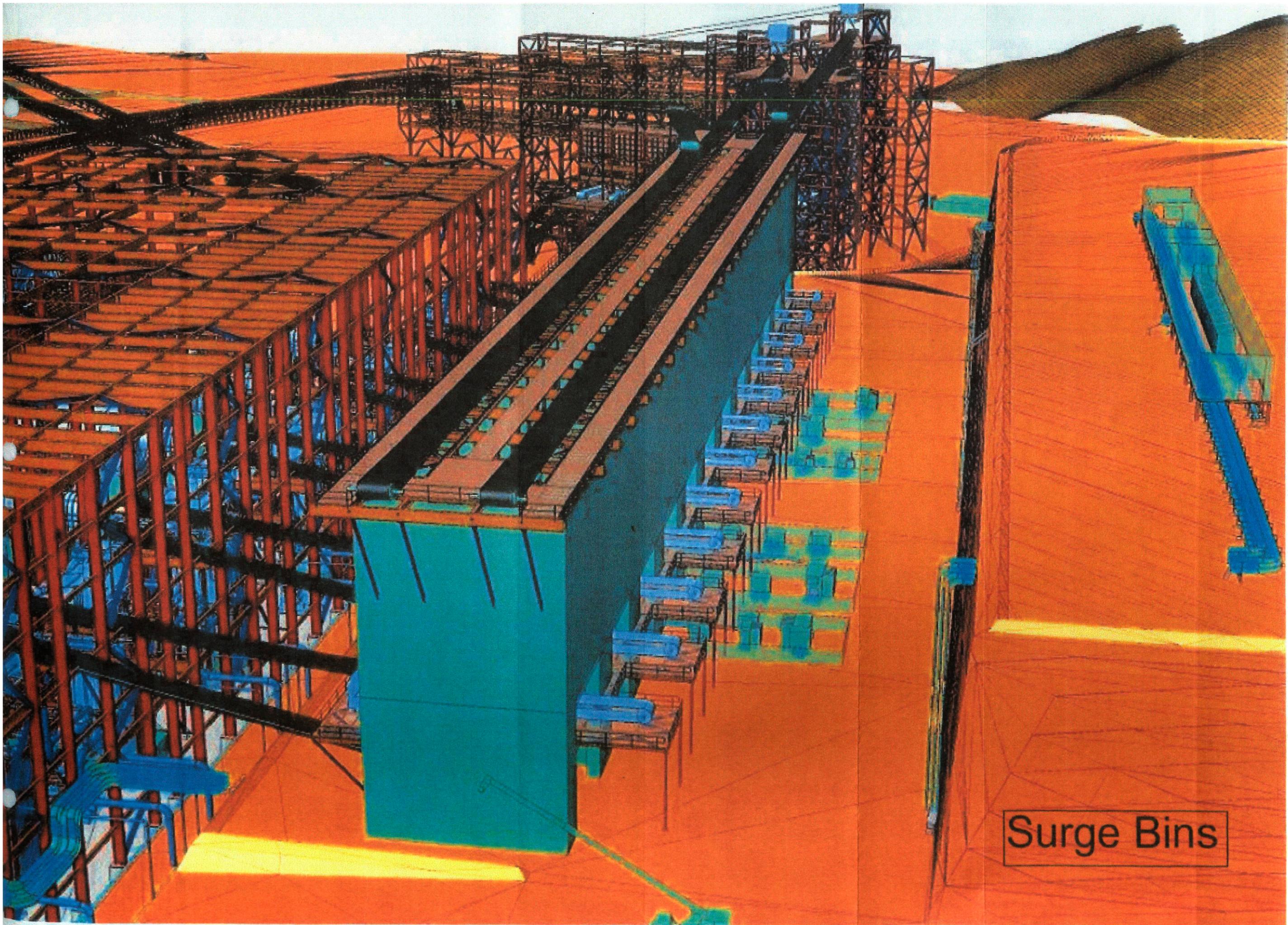
Moly Plant

Grinding Building

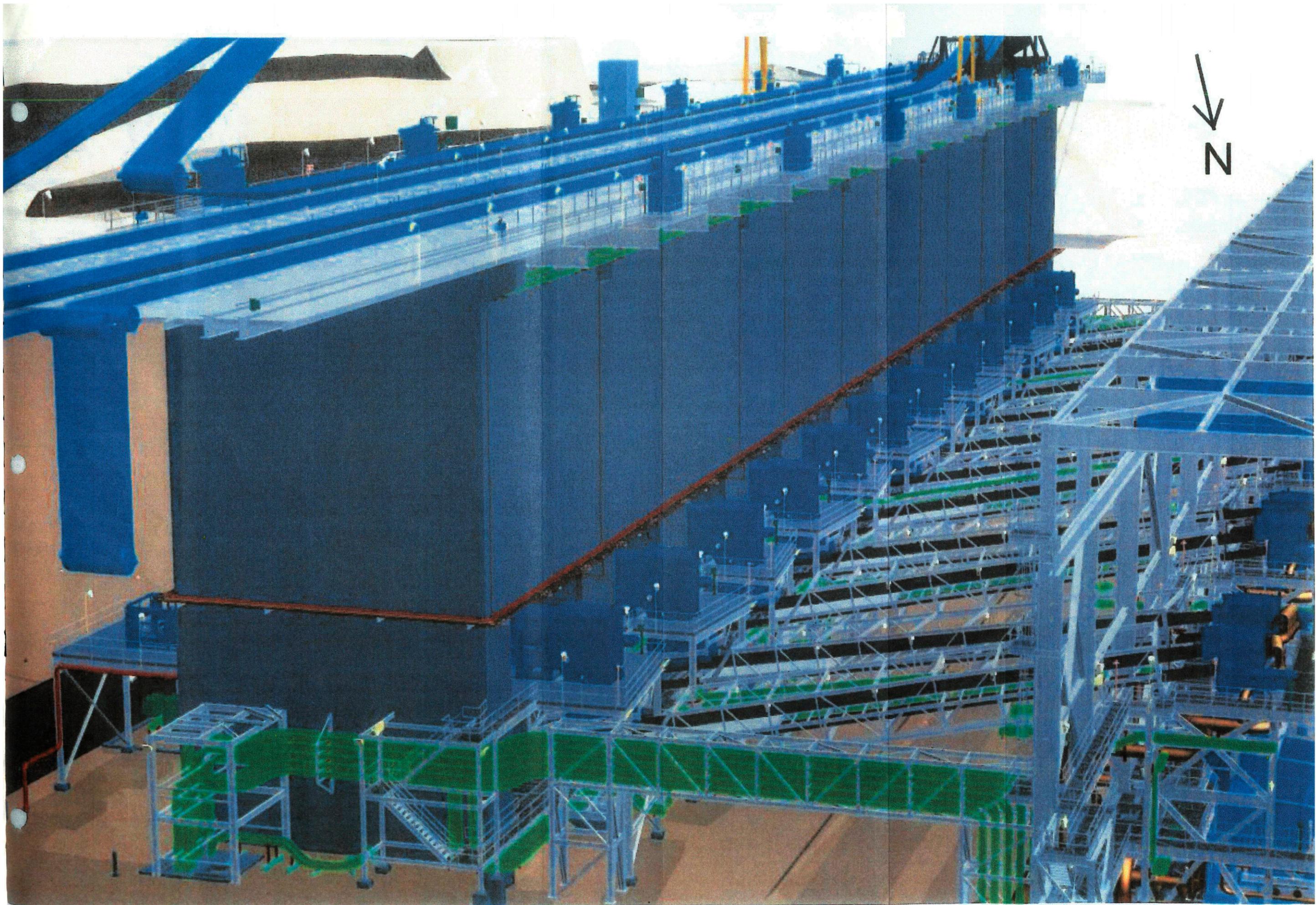
Flotation Cells

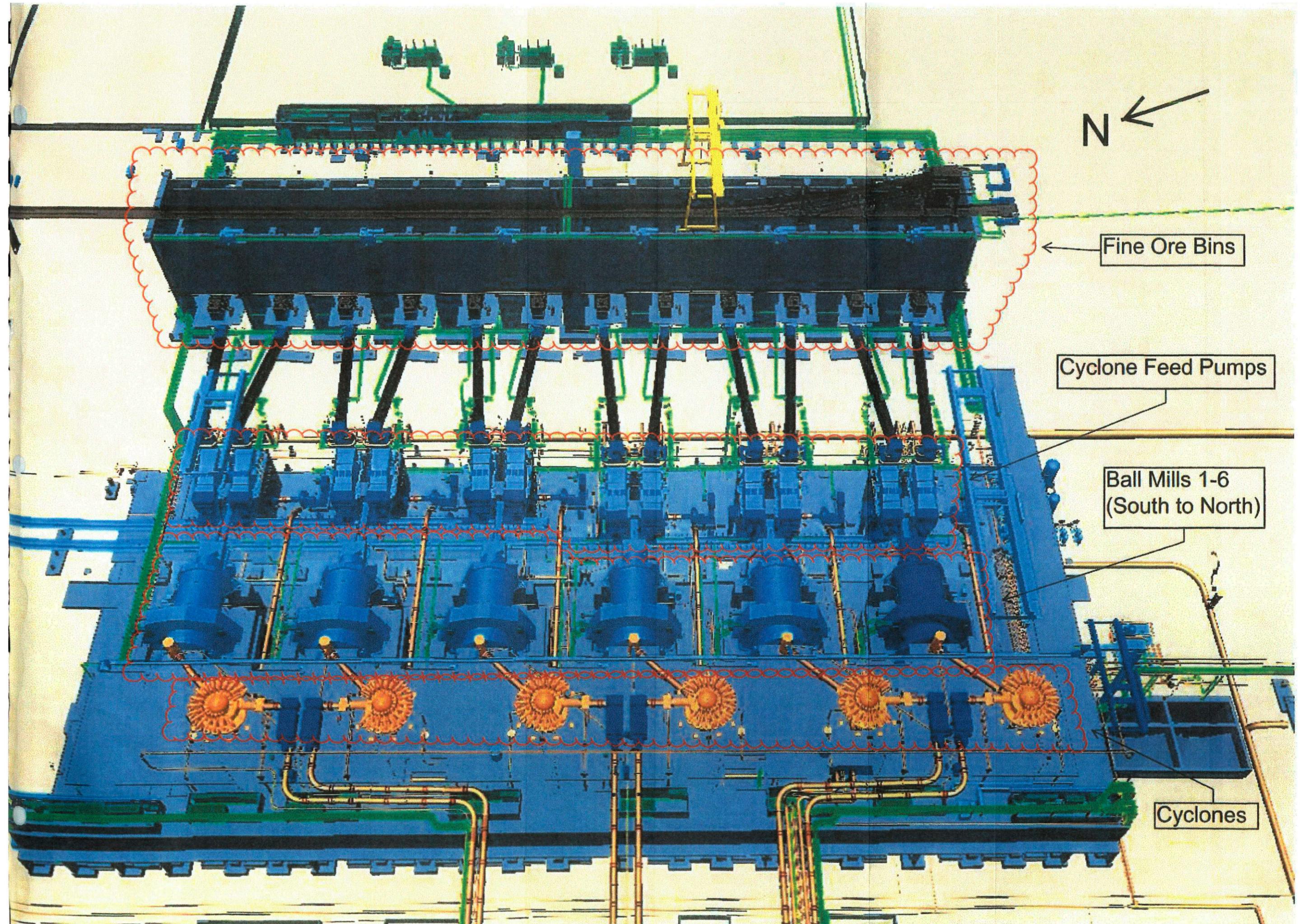
Regrind Building

Concentrate Filtering
and Loadout



Surge Bins





N ←

Fine Ore Bins

Cyclone Feed Pumps

Ball Mills 1-6
(South to North)

Cyclones