

GMS, INC.
CONSULTING ENGINEERS
611 NORTH WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903-1074

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DAVID R. FRISCH, P.L.S.
MARK A. MORTON, P.E.
JASON D. MEYER, P.E.

October 12, 2011

Mr. Wes Weaver, President
Weaver General Construction Co.
3679 South Huron Street, Suite 404
Englewood, CO 80110

*Via Email to: wes@weavergc.com
No Hard Copy to Follow*

Re: Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF)
Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No.:	03200-004B
Date of Submittal:	September 21, 2011
Title:	Headworks Building Substructure Wall and Slab Reinforcing, Submittal Drawings P5 through P12A
Specification Section:	03200
Manufacturer:	Dalco Industries, Inc.

The referenced submittal has been stamped "**Make Corrections Noted**". Our comments are as follows:

1. Attached please find a highlighted and redlined set of markups of the submitted documents. The highlighted items have been satisfactorily addressed. Those that have been redlined are items that were not satisfactorily addressed per the redlined drawings returned with shop submittal response correspondence dated June 15, 2011.
2. We request all corrections be made as redlined on the attached drawings. The Contractor shall ensure all rebar has been fabricated correctly upon delivery to site and the corresponding reinforcing bar installed in accordance with the redlined drawings as returned on June 15, 2011 and attached to this letter.

Please call if you should have any questions.

Sincerely,



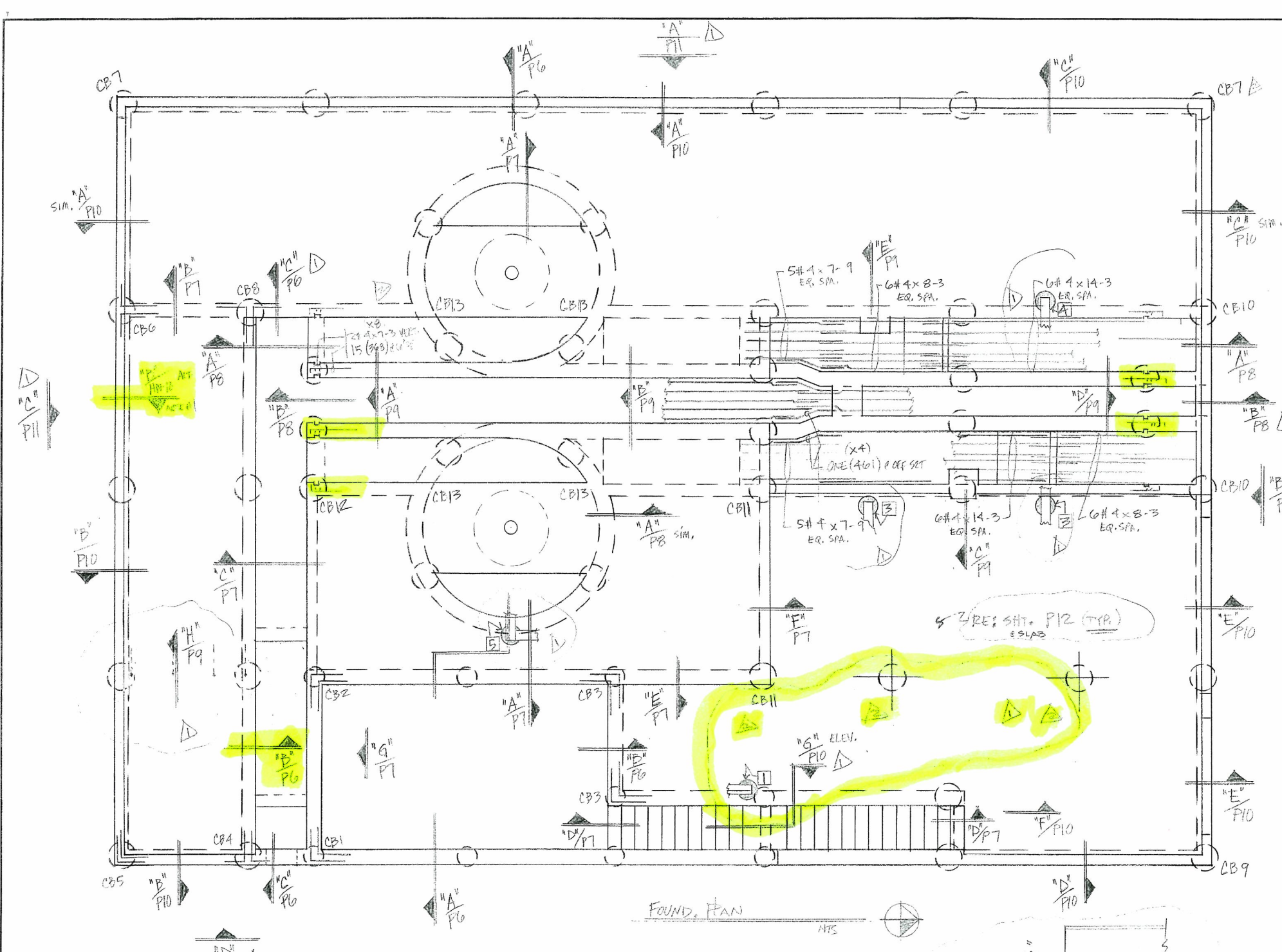
David R. Frisch, P.L.S.

DRF

ec (letter only):

Mr. Jim Heckman, Manager, LFMSDD, lfmanager@lfmsdd.org
Ms. Cindy Murray, Office Manager, Fountain Sanitation District, fsdistrict@qwestoffice.net
Mr. Jeff Burst, Project Superintendent, Weaver General Construction Co., jeff@weavergc.com
Mr. John Jacob, Project Manager, Weaver General Construction Co., john@weavergc.com
Mr. Tyler Ammerman, Weaver Construction Management, Inc., tammerman@weavergc.com
Ms. Leslie Brown, Weaver General Construction Co., leslie@weavergc.com
Mr. Mike Gaines, MGA Structural Engineers, mg@mgase.com

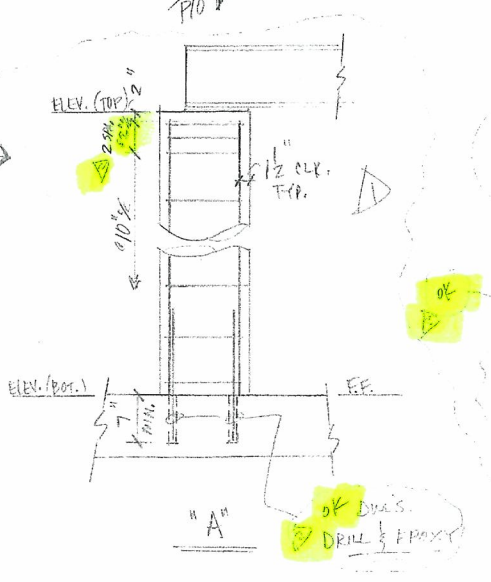
cc (w/drawings): Mr. Jerry Miller, Resident Project Representative, GMS, Inc.



QTY	SIZE	TYPE	LENGTH FT - IN	MARK	SKETCH	A	B	C	D	E	F/R	G	H	K	J	O
7	17		727		L		7-4	4-0								
4	11		428		L		3-0	3-0								
6	17		629		L		2-10	3-6								
5	17		530		L		2-6	2-6								
3	T2		331		L	+	1-0	0-10	+	+			+			
3	T2		392		L	+	1-0	0-4	+	+			+			
6	20		633		L		4-0	2-8	4-0							
6	20		634		L		4-0	1-0	4-0							
4	17		435		L		0-8	2-2								
4	17		836		L		1-4	5-0								
3	T2		337		L	+	0-8	0-8	+	+			+			
8	9		838		L		18-6				6-9		+		+	
8	9		839		L		17-3				6-3		+		+	
8	9		840		L		16-2				5-9		+		+	
8	17		841		L		1-4	13-8	1-4							
8	17		842		L		1-4	13-6	1-4							
8	17		843		L		1-4	13-1	1-4							
8	17		844		L		1-4	12-3	1-4							
8	17		845		L		1-4	11-1	1-4							
8	17		846		L		1-4	9-4	1-4							
4	17		447		L		0-8	2-6								
4	17		448		L		0-8	4-0	0-8							
4	17		449		L		0-8	3-10	0-8							
4	17		450		L		0-8	3-5	0-8							
4	17		451		L		0-8	2-8	0-8							
4	17		452		L		0-8	1-5	0-8							
7	9		753		L		18-0				6-10		+		+	
7	9		754		L		17-3				6-6		+		+	
7	9		755		L		16-9				6-2		+		+	
6	9		656		L		17-0				6-10		+		+	
6	9		657		L		15-9				6-2		+		+	
4	9		458		L		16-6				6-10		+		+	
4	9		459		L		15-3				6-2		+		+	
4	3		460		L		1-9	+	2-3				0-6	1-4		
4	3		461		L		2-3	+	2-3				0-6	1-4		
6	3		662		L		3-3	+	3-3				0-6	1-4		
4	17		463		L		0-8	5-6								
3	T2		364		L	+	0-4	0-8	+	+			+			
4	20		465		L		1-4	0-6	1-4							
4	17		466		L		0-10	3-8	0-10							
4	17		467		L		0-10	3-0	0-10							
3	17		368		L		0-6	2-6								
4	17		469		L		0-8	2-8								
4	17		470		L		2-8	1-8	2-8							
3	T2		371		L	+	0-6	2-8	+	+			+			
6	20		672		L		4-0	2-6	4-0							
6	3		673		L		3-0	+	4-0					2-10	10-9	
6	3		674		L		3-0	+	5-6					2-6	9-3	
4	17		475		L		1-4	2-2								
3	T2		376		L	+	1-8	1-8	+	+			+			
4	3		477		L		1-0	+	1-0					0-3	1-0	
4	3		478		L		1-0	1-0						0-3	+	
4	17		479		L		0-8	3-6								
4	17		480		L		1-0	2-4								

COLUMN BAR SCHED.			COL. SCHEDULE (RE: "A")		
NO.	QTY.	BAR	NO.	QTY.	BAR
CB1	ONE	6(7105) 3EF TOP 4(6106) 2MID/BOT 33(4107) WARCH IRE.	CB12	ONE	6(6106) 2T.M.B. 18(4107) 9EF
CB2	ONE	6(7105) 3EF (T.) 4(6106) 2M/B. 22(4107) IRE	CB11	4	4(6109) IF 4(6110) OF 6(4111) IF ALT. 6(4112) OF ALT.
CB3	2	8(6106) 2EF TOP 12(4107) 9EF	CB9	ONE	6(8108) 3T/B 5(4107) 2EF, 1MARCH 2(530) CV/B
CB4	ONE	6(6106) 2T.M.B. 20(4107) 10EF	CB10	2	6(6106) 2T.M.B. 12(4107) 6EF
CB5	ONE	6(6106) 5(4107) 2(530)	CB11	2	6(6106) 2T.M.B. 3(4107) MID.

NO.	QTY.	ELEV. TOP OF BOT.	VERT.	TIE'S - 10% (302) DUALS.
1	1	5428.00 5417.92	6#5 x 9-11	15(311)
2	2	5432.00 5417.92	6#5 x 13-11	20(311)
3	2	5432.00 5418.00	6#5 x 13-10	20(311)
4	ONE	5432.00 5421.33	6#5 x 10-6	16(311)
5	ONE	5433.43 5421.33	6#5 x 11-11	17(311)



NOTE: REF. P11
BALANCE OF
BENDING ...

480: 380
TOP LAP (OTHER)
1-6-#3-1-3
2-0-4-1-7
2-6-5-2-0
2-0-6-2-5
2-6-7-2-10
4-0-8-3-2
4-7-7-3-7
5-1-10-4-0
5-6-11-4-5

- LEGEND
- O.F. - OUTSIDE FACE
 - I.F. - INSIDE FACE
 - E.F. - EACH FACE
 - HORIZ. - HORIZONTAL
 - VERT. - VERTICAL
 - DWLS. - DOWELS
 - FTG. - FOOTINGS
 - ELEV. - ELEVATION
 - E.W. - EACH WAY
 - T.O.F. - TOP OF FOOTING
 - B.O.F. - BOTTOM OF FOOTING
 - T.O.W. - TOP OF WALL
 - B.O.W. - BOTTOM OF WALL
 - GRD. BM. - GRADE BEAM
 - MK. - MARK
 - MAS. - MASONRY
 - DIAG. - DIAGONAL
 - COL. - COLUMN
 - PROJ. - PROJECTION
 - T & B - TOP & BOTTOM
 - N.F. - NEAR FACE
 - F.F. - FAR FACE
 - % - ON CENTER
 - @ - AT EACH

REINF IS A615, GR60 TYP.

8/31 APPROV. FOR CONST.

3/11 REVISE & RESUBMIT

NO DATE ISSUED FOR

DALCO INDUSTRIES, INC.
An Employee Owned Company
AREA CODE 303 371-3950 3730 SALEM ST. DENVER, COLO. 80239

JOB HAROLD D. THOMPSON REG. WATER RECLAIM.

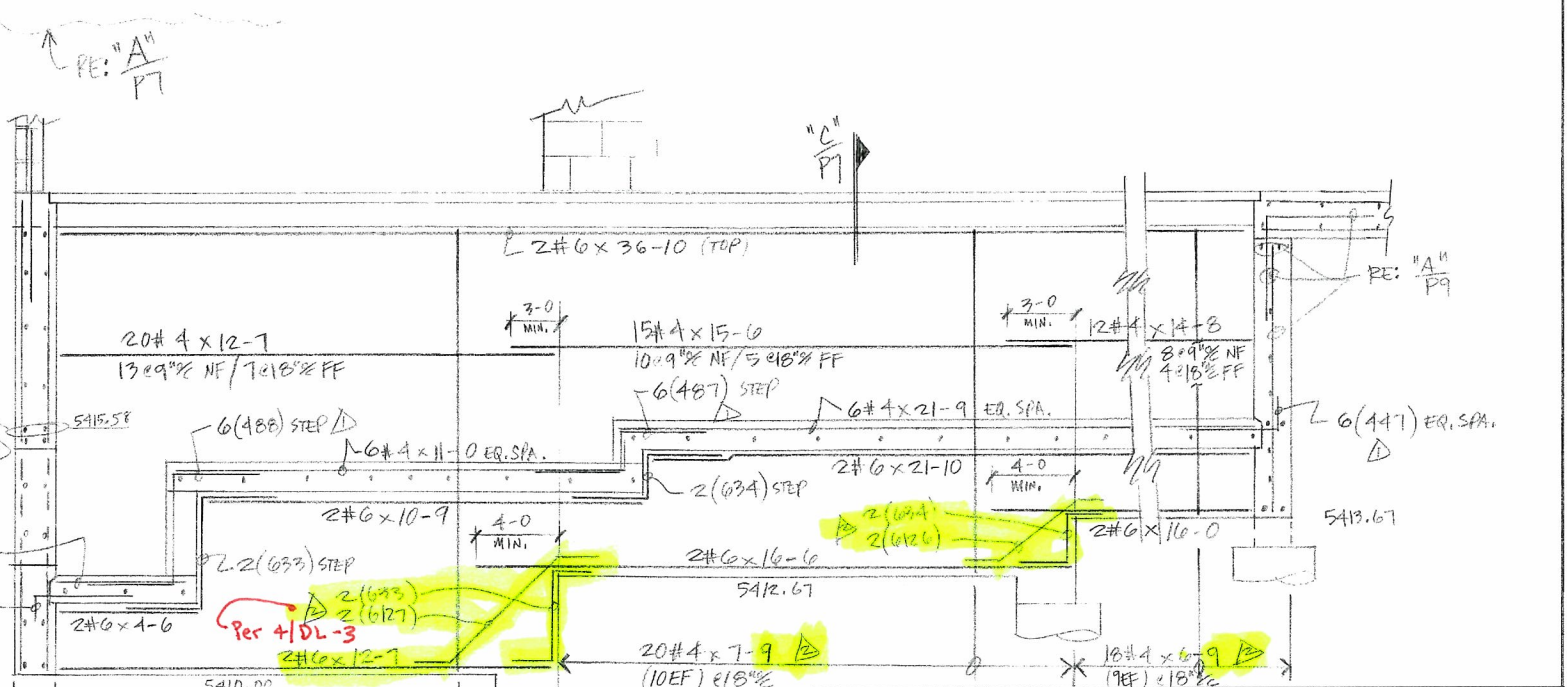
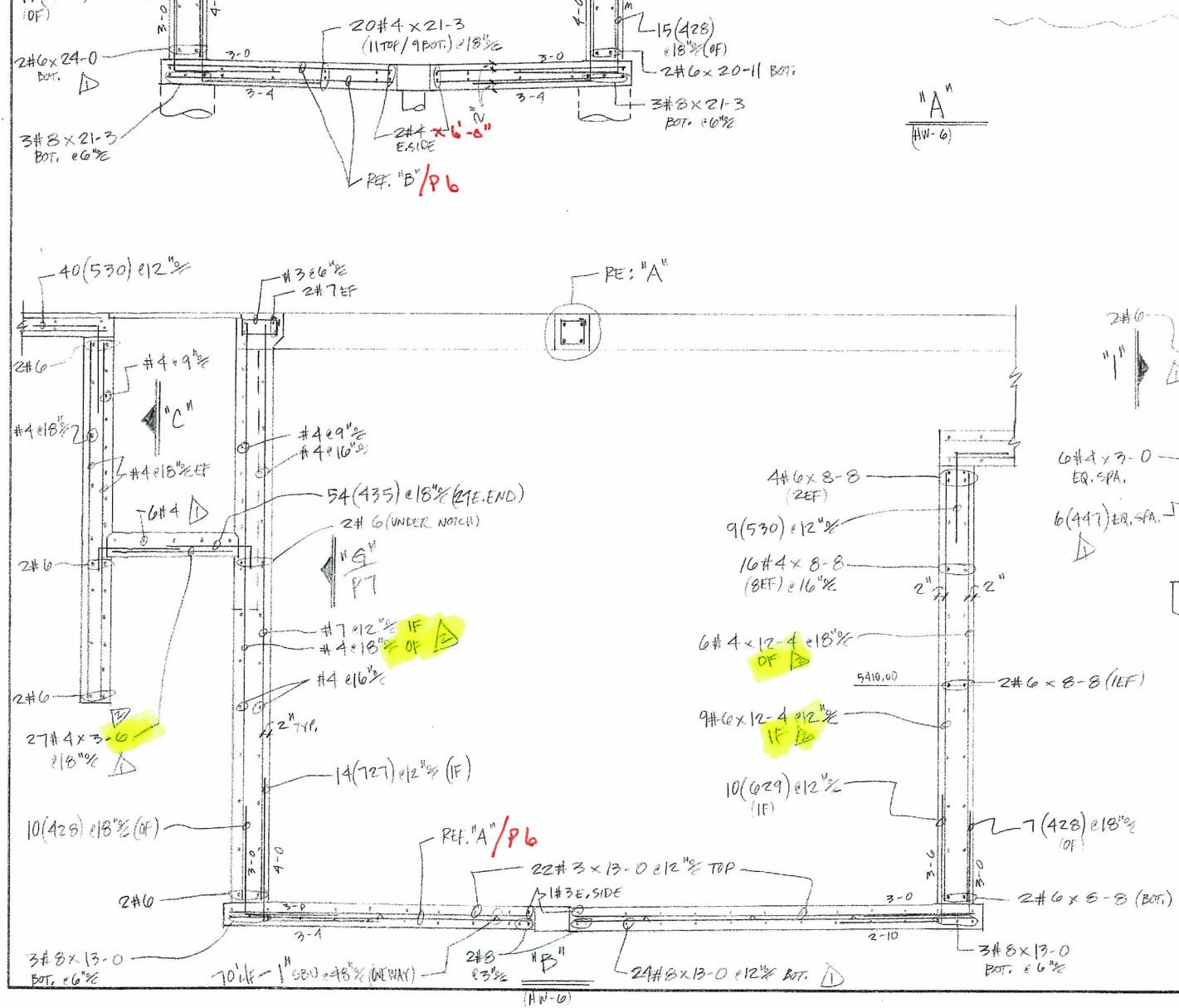
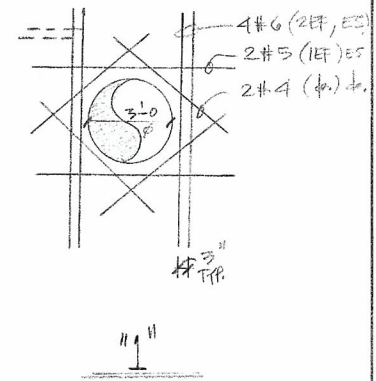
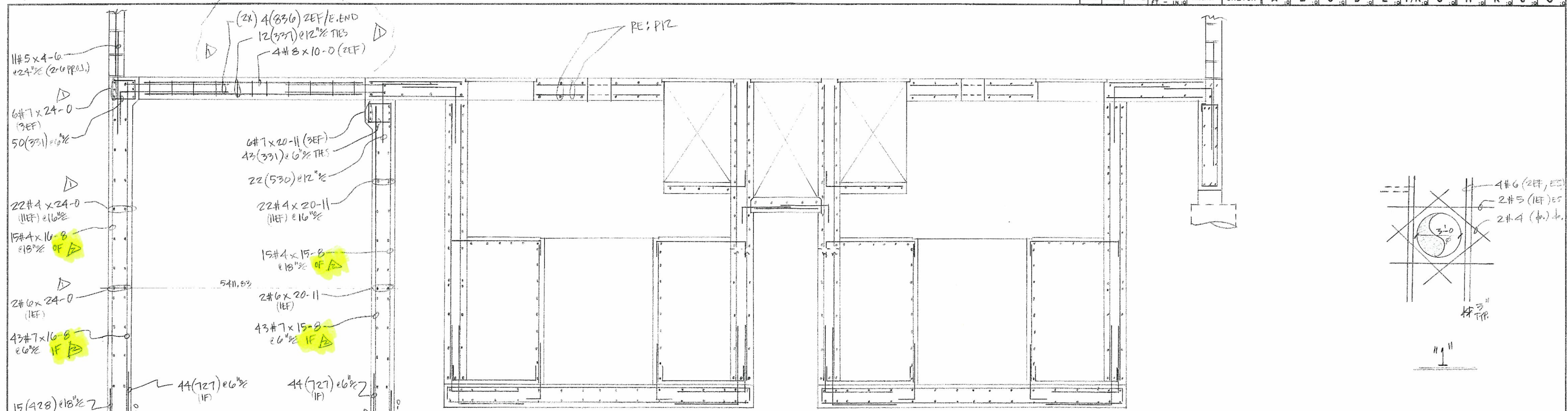
LOCATION FOUNTAIN, CO.

DESCRIPTION PLAN & HEADWORKS

CONTRACTOR WEAVER CONST.

ARCHITECT GMS, Inc.

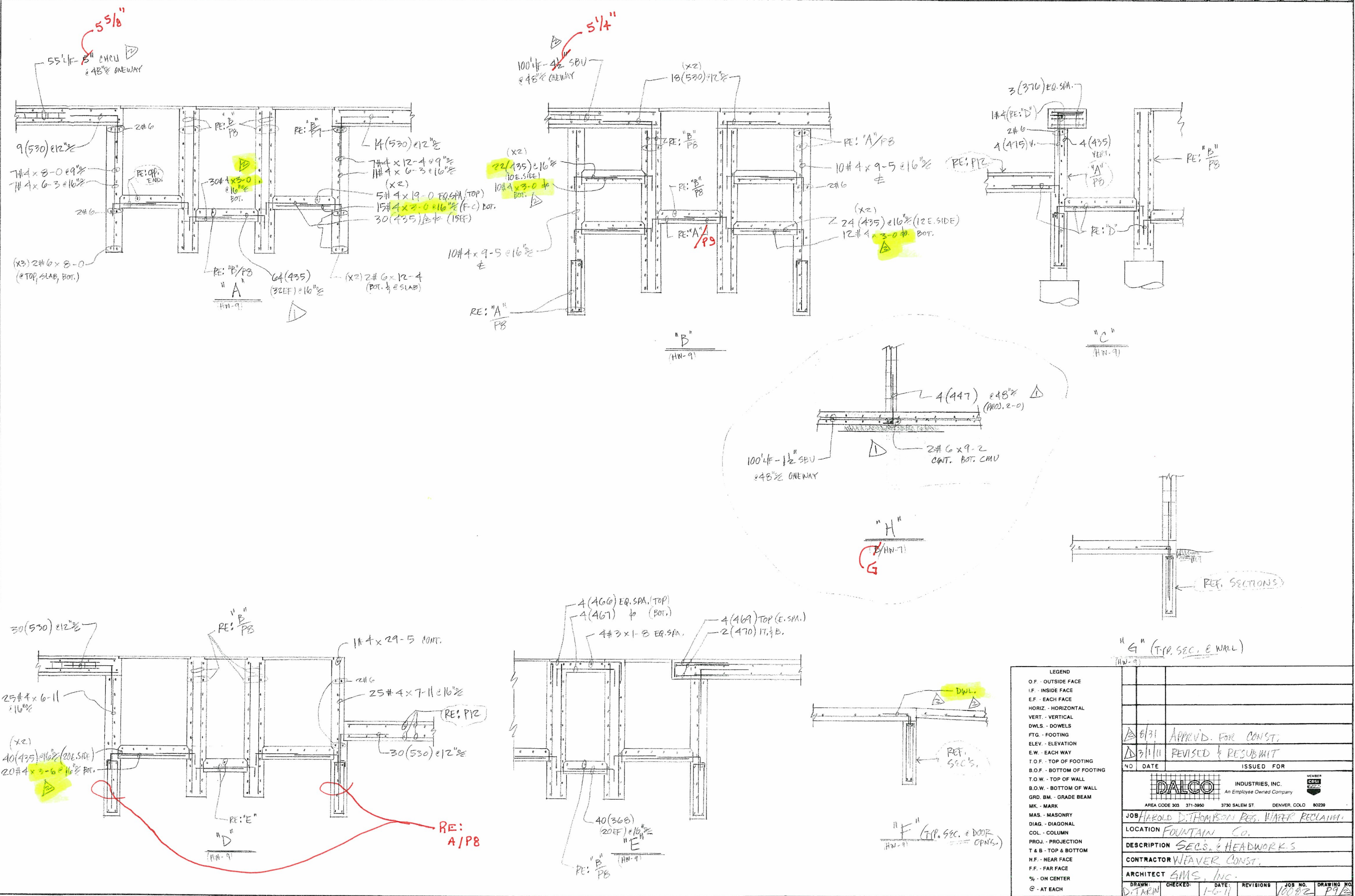
DRAWN: D.TARIN CHECKED: DATE: 1-6-11 REVISIONS: JOB NO. 10082 DRAWING NO. PS



LEGEND	
OF - OUTSIDE FACE	
IF - INSIDE FACE	
EF - EACH FACE	
HORIZ - HORIZONTAL	
VERT - VERTICAL	
DWLS - DOWELS	
FTG - FOOTING	
ELEV - ELEVATION	
E.W. - EACH WAY	
T.O.F. - TOP OF FOOTING	
B.O.F. - BOTTOM OF FOOTING	
T.O.W. - TOP OF WALL	
B.O.W. - BOTTOM OF WALL	
GRD. BM. - GRADE BEAM	
MK. - MARK	
MAS. - MASONRY	
DIAG. - DIAGONAL	
COL. - COLUMN	
PROJ. - PROJECTION	
T & B - TOP & BOTTOM	
N.F. - NEAR FACE	
F.F. - FAR FACE	
% - ON CENTER	
@ - AT EACH	

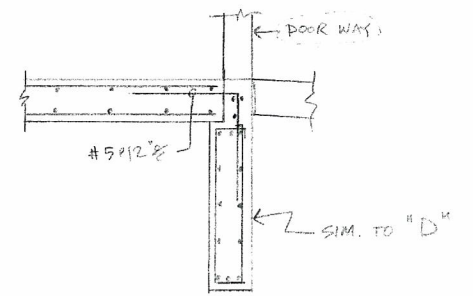
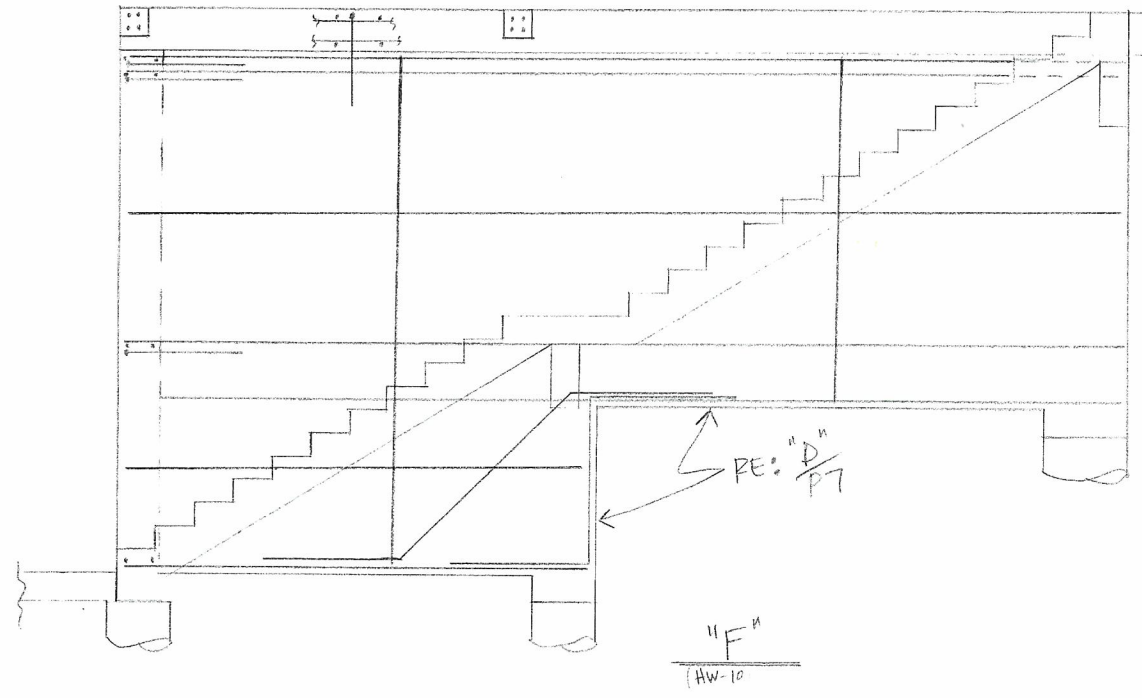
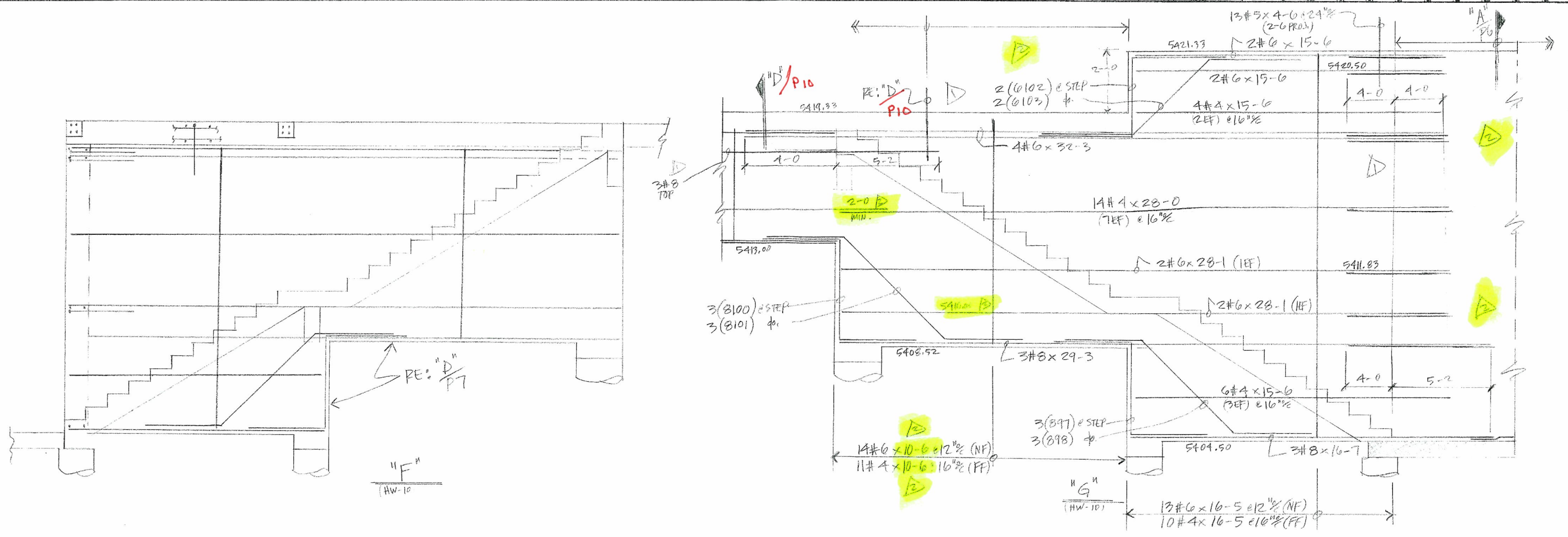
NO	DATE	ISSUED FOR
1	8/31	APPRVD. FOR CONST.
2	3/11	REVISE & RESUBMIT.

AREA CODE 303 371-3950 3730 SALEM ST. DENVER, CO. 80239	
JOB: HAROLD D. THOMPSON REG. WATER RECLAIM.	
LOCATION: FOUNTAIN, CO.	
DESCRIPTION: SEC'S. PHEADWORKS	
CONTRACTOR: WEAVER CONST.	
ARCHITECT: GMS, Inc.	
DRAWN: D. JARVIS	CHECKED: [Signature]
DATE: 1-0-11	REVISIONS: 10082
JOB NO: 10082	DRAWING NO: PG 2

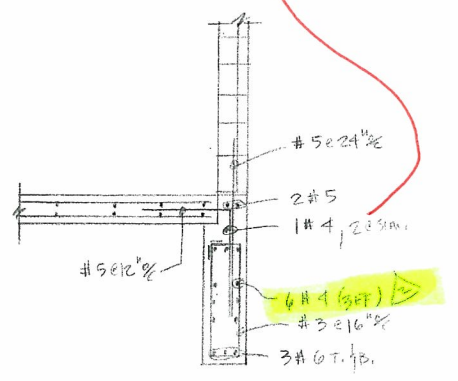
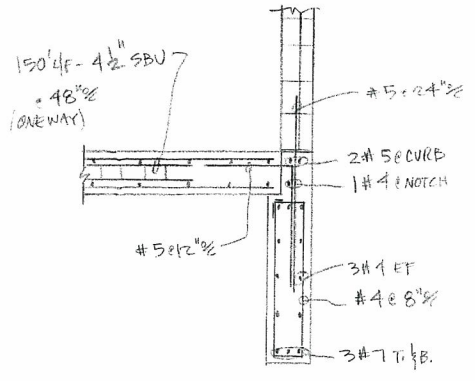


LEGEND	
O.F.	OUTSIDE FACE
I.F.	INSIDE FACE
E.F.	EACH FACE
HORIZ.	HORIZONTAL
VERT.	VERTICAL
DWLS.	DOWELS
FTG.	FOOTING
ELEV.	ELEVATION
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T.O.F.	TOP OF FOOTING
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GRD. BM.	GRADE BEAM
MK.	MARK
MAS.	MASONRY
DIAG.	DIAGONAL
COL.	COLUMN
PROJ.	PROJECTION
T & B	TOP & BOTTOM
N.F.	NEAR FACE
F.F.	FAR FACE
%	ON CENTER
@	AT EACH

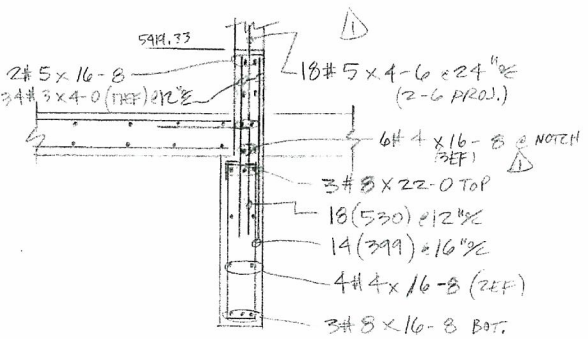
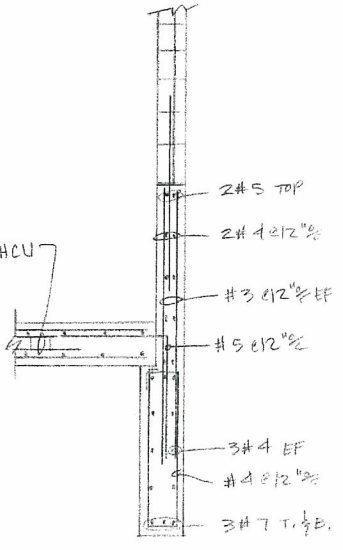
6/31	APPR'D. FOR CONST.
7/1/11	REVISED & RESUBMIT
NO	DATE
ISSUED FOR	
AREA CODE 303 371-3950 3730 SALEM ST. DENVER, COLO. 80220	
JOB HAROLD D. THOMPSON REG. WATER RECLAIM.	
LOCATION FOUNTAIN, CO.	
DESCRIPTION SEC'S. & HEADWORK'S	
CONTRACTOR WEAVER CONST.	
ARCHITECT GMS, INC.	
DRAWN	CHECKED
D. TARRIN	1-6-11
DATE	REVISIONS
1-6-11	10082
JOB NO.	DRAWING NO.
10082	P9



2-#4 AT B/HW-10 ALT



70' LF - 5" CHCU @ 48" (ONEWAY)



"A"
(HW-10)

"B"
(HW-10)

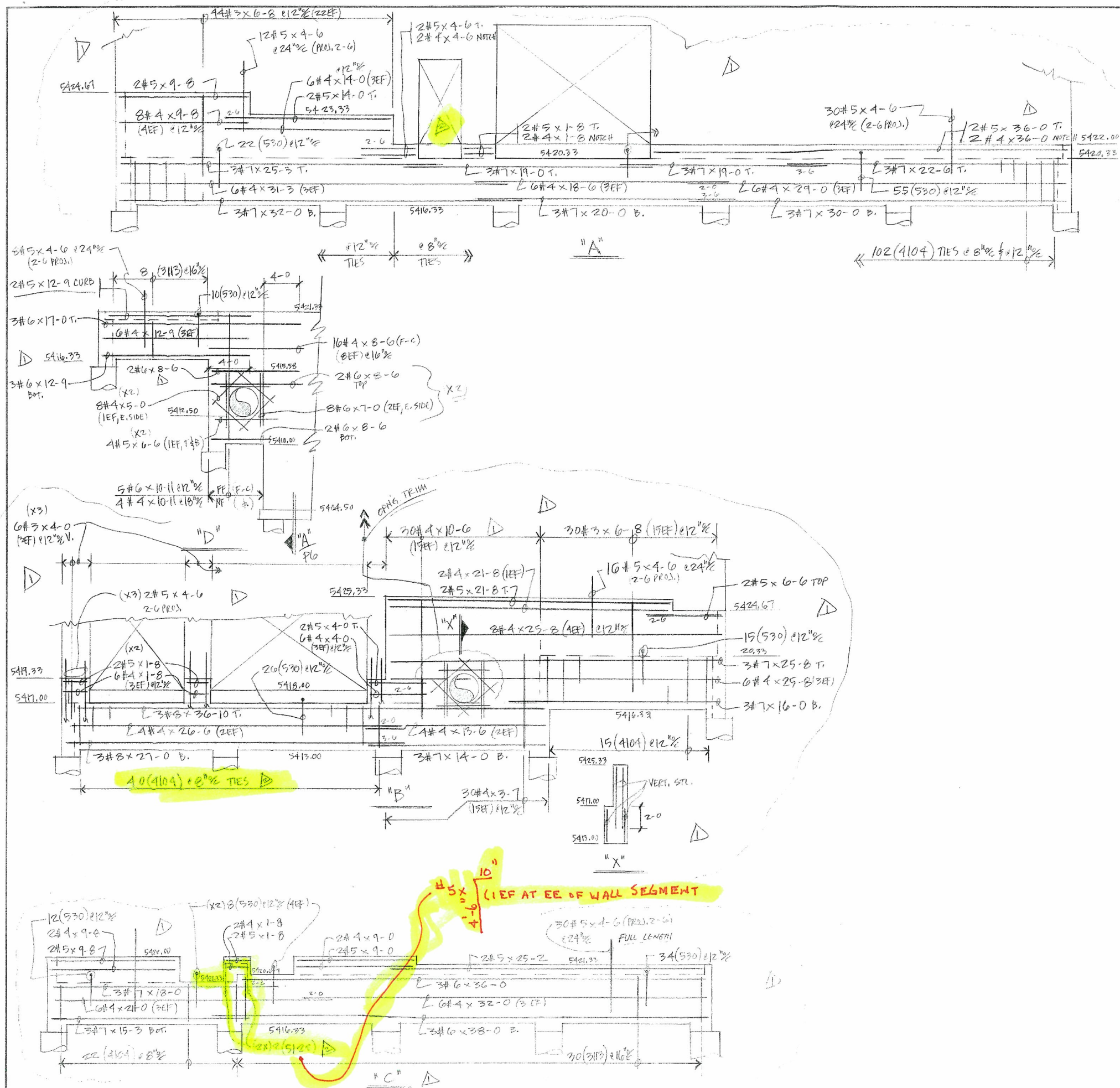
"C"
(HW-10)

"D"
(HW-10)

"E"
(HW-10)

LEGEND	
O.F.	OUTSIDE FACE
I.F.	INSIDE FACE
E.F.	EACH FACE
HORIZ.	HORIZONTAL
VERT.	VERTICAL
DWLS.	DOWELS
FTG.	FOOTING
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GRD. BM.	GRADE BEAM
MK.	MARK
MAS.	MASONRY
DIAG.	DIAGONAL
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PROJ.	PROJECTION
T & B.	TOP & BOTTOM
N.F.	NEAR FACE
F.F.	FAR FACE
%	ON CENTER
@	AT EACH

NO	DATE	ISSUED FOR
8/31		APPRD. FOR CONST.
3/1/11		REVISE & RESUBMIT
AREA CODE 303 371-3850 3730 SALEM ST. DENVER, COLO 80239		
JOB HAROLD D. THOMPSON REG. WATER RECLAIM.		
LOCATION FOUNTAIN CO		
DESCRIPTION SECS. & HEADWORKS		
CONTRACTOR WEAVER CONST.		
ARCHITECT GHS, INC.		
DRAWN	CHECKED	DATE
D. TABIN		1-6-11
REVISIONS	JOB NO.	DRAWING NO.
	10082	P10.23



QTY	SIZE	TYPE	LENGTH FT. - IN.	MARK	SKETCH	A	B	C	D	E	F/R	G	H	K	J	O
4	9		181		—		6-6				6-10		+			+
4	9		182		—		6-6				6-2		+			+
4	20		183		—		1-4	0-8	2-0							
4	17		184		—		0-8	3-8								
3	12		385		□	+	0-8	2-8	+	+			+			
3	12		386		□	+	0-4	2-8	+	+			+			
4	20		187		—		2-0	1-0	2-0							
4	20		188		—		2-0	2-8	2-0							
3	12		389		□	+	0-4	0-4	+	+			+			
4	17		190		—		0-8	7-0								
6	17		691		—		1-0	3-4								
4	17		192		—		0-8	1-10								
3	17		393		—		0-6	2-0								
6	17		694		—		1-0	5-0								
6	3		695		—		10-6	2-0					1-0		+	
6	3		696		—		13-3	2-9					1-5		+	
8	20		897		—		3-4	4-0	3-4							
8	3		898		—		3-4	5-8	3-4					+	+	
3	12		399		□	+	0-8	3-8	+	+			+			
8	20		8100		—		3-4	4-6	3-4							
8	3		8101		—		3-4	6-4	3-4					+	+	
6	20		6102		—		4-0	3-4	4-0							
6	3		6103		—		4-0	4-8	4-0					+	+	
4	12		4104		□	+	0-8	3-8	+	+			+			
7	17		7105		—		3-6	3-6								
6	17		6106		—		3-0	3-0								
4	17		4107		—		2-0	2-0								
8	17		8108		—		4-0	4-0								
6	3		6109		—		3-0	3-0					2-7		+	
6	30		6110		—		3-0	3-0					2-7		+	
4	3		4111		—		2-0	2-0					1-9		+	
4	30		4112		—		2-0	2-0					1-9		+	
3	12		3113		□	+	0-8	4-0	+	+			+			
4	9		4123		—		10-6						2-8		+	
6	20		6124		—		4-0	2-4	4-0							
6	3		6125		—		4-0	+	4-0					2-4		+
6	3		6126		—		4-0	+	4-0					1-0		+
6	3		6127		—		4-0	+	4-0					2-8		+
5	17		5128		—		0-16	4-6								

LEGEND

- O.F. - OUTSIDE FACE
- I.F. - INSIDE FACE
- E.F. - EACH FACE
- HORIZ. - HORIZONTAL
- VERT. - VERTICAL
- DWLS. - DOWELS
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- PROJ. - PROJECTION
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- N.F. - NEAR FACE
- F.F. - FAR FACE
- % - ON CENTER
- C - AT EACH

8/31 APPROV. FOR CONSTR.
3/1/11 REVISED & RESUBMIT

ISSUED FOR

DALCO INDUSTRIES, INC.
An Employee Owned Company

AREA CODE 303 371-3950 3730 SALEM ST. DENVER, COLO 80239

JOB HAROLD D. THOMPSON RES. WATER RECLAIM.

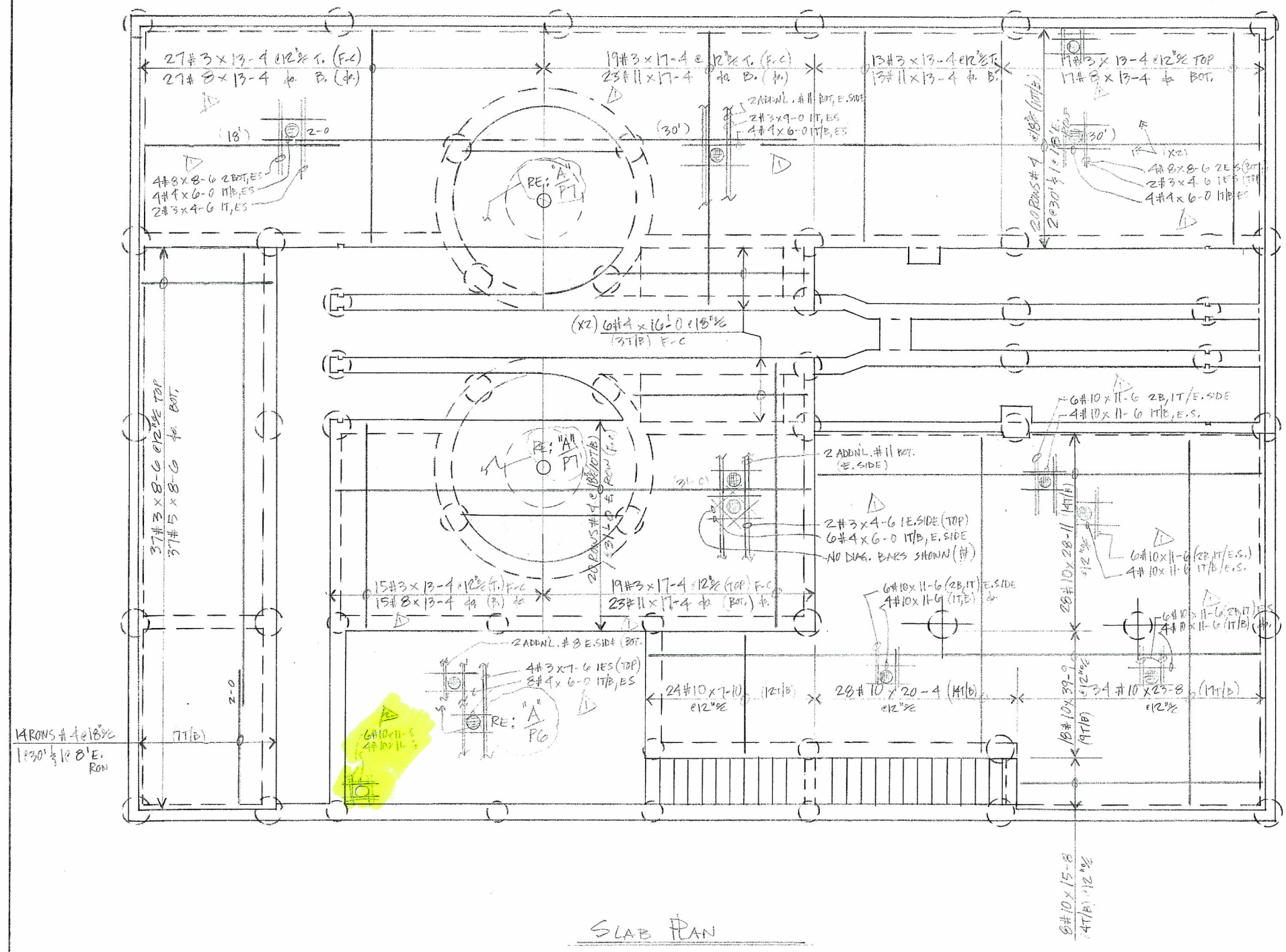
LOCATION FOUNTAIN, CO.

DESCRIPTION SECS. & ELEV. & HEADWORKS

CONTRACTOR WEAVER CONST.

ARCHITECT GMS, INC.

DRAWN: D. FARIN CHECKED: DATE: 1-6-11 REVISIONS: JOB NO. 100522 DRAWING NO. P1112



PROVIDE FULL LENGTH
#5, #8 & #11 BOT.
SLAB BARS - DO NOT
SPICE

REF. WALL SECTIONS
FOR BAR CHAIRS
BTWN. WALLS...
(TYP.)

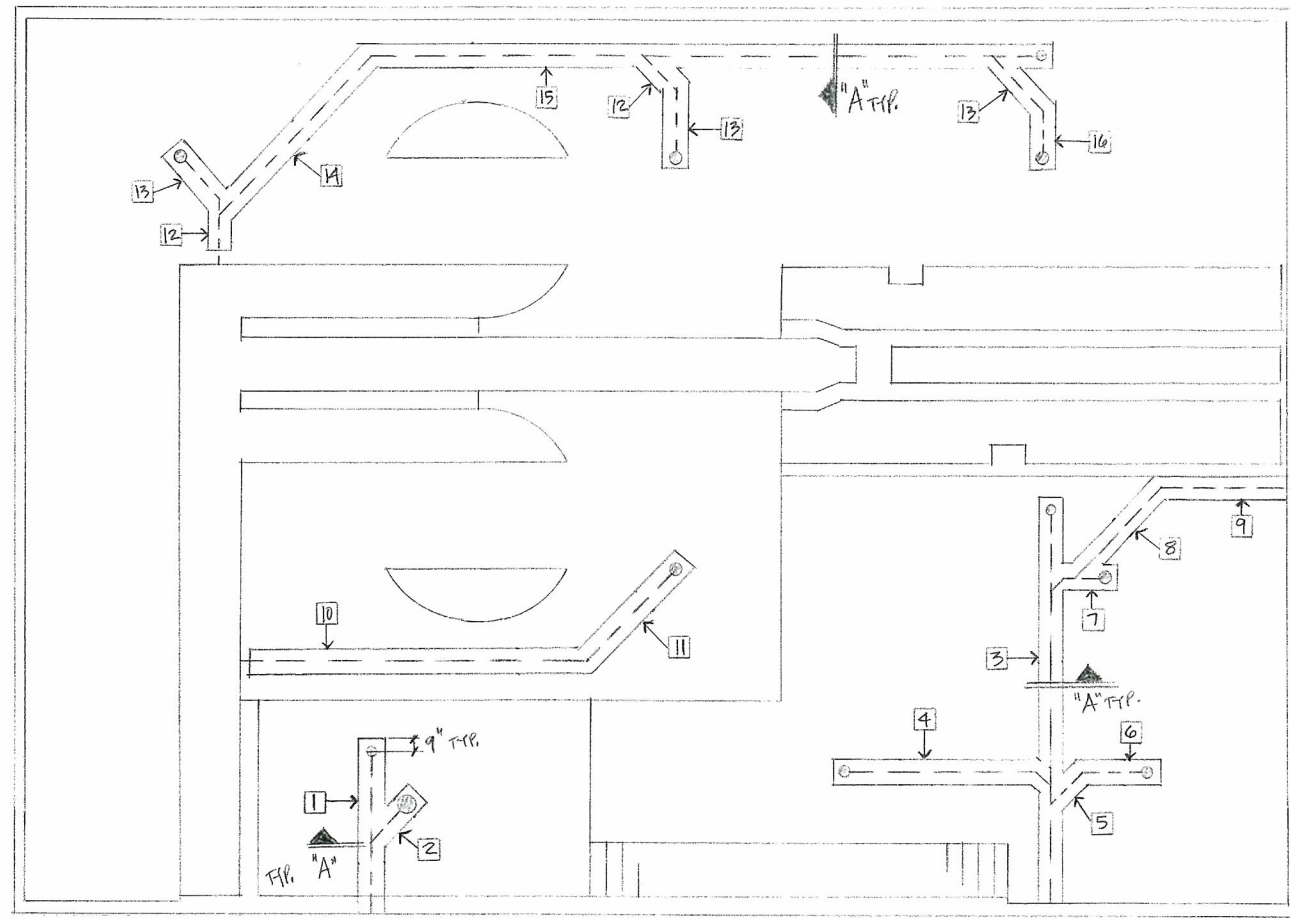
SLAB PLAN

LEGEND	
O.F.	- OUTSIDE FACE
I.F.	- INSIDE FACE
E.F.	- EACH FACE
HORIZ.	- HORIZONTAL
VERT.	- VERTICAL
DWLS.	- DOWELS
FTG.	- FOOTING
ELEV.	- ELEVATION
E.W.	- EACH WAY
T.O.F.	- TOP OF FOOTING
B.O.F.	- BOTTOM OF FOOTING
T.O.W.	- TOP OF WALL
B.O.W.	- BOTTOM OF WALL
GRD. BM.	- GRADE BEAM
MK.	- MARK
MAS.	- MASONRY
DIAG.	- DIAGONAL
COL.	- COLUMN
PROJ.	- PROJECTION
T & B.	- TOP & BOTTOM
N.F.	- NEAR FACE
F.F.	- FAR FACE
%	- ON CENTER
@	- AT EACH

NO	DATE	ISSUED FOR
1	8/21	REVISED FOR CONST.
2	9/11	REVISED & RESUBMIT.

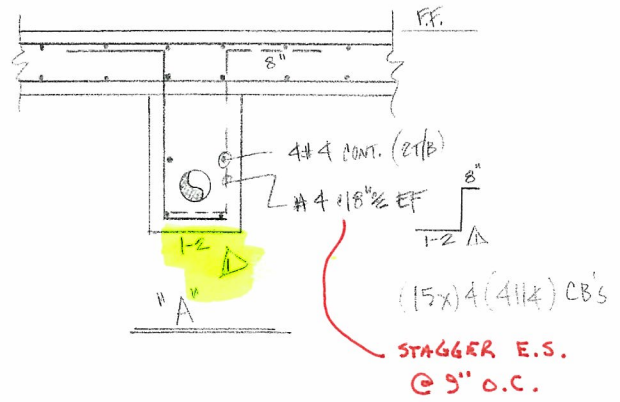
AREA CODE 303 371-3950 3730 SALEM ST. DENVER, COLO. 80238	
JOB HAROLD D. THOMPSON REG. WATER RECLAIM.	
LOCATION FOUNTAIN, Co.	
DESCRIPTION SLAB & HEADWORKS	
CONTRACTOR WEAVER CONST.	
ARCHITECT GMS, INC.	
DRAWN:	CHECKED:
D. TARN	1-6-11
DATE:	REVISIONS
1-6-11	10082
JOB NO.	DRAWING NO.
10082	P12

QTY	SIZE	TYPE	LENGTH FT - IN.	MARK	SKETCH	A	B	C	D	E	F/R	G	H	K	J	O
4	20			A120	L		0-8	2-7	1-2							
4	20			A121	L		0-8	3-10	1-2							
4	20			A122	L		0-8	4-2	1-2							
3	13			311	O			3-6				1-3				1-
4	3			A114	T		2-0	2-0					+	+		



PIPE ENCASUREMENT		
Nr.	QTY	(A) 4#4 CONT. (21/B) (B) 2#4 #18 1/2 (1EF)
1	ONE	4#4 x 9-3 (21/B) 14(A122) 7EF
2	ONE	4#4 x 3-10 do. 8(A122) 4EF
3	ONE	4#4 x 23-1 do. 32(A121) 16EF
4	ONE	4#4 x 13-2 do. 20(A121) 10EF
5	ONE	4#4 x 3-11 do. 8(A121) 4EF
6	ONE	4#4 x 4-11 do. 8(A121) do
7	ONE	4#4 x 4-5 do. 8(A121) do
8	ONE	4#4 x 8-8 do. 14(A121) 7EF
9	ONE	4#4 x 7-11 do. 12(A121) 6EF
10	ONE	4#4 x 20-9 do. 30(A120) 15EF
11	ONE	4#4 x 8-6 do. 14(A120) 7EF
12	2	4#4 x 4-2 do. 8(A120) 4EF
13	3	4#4 x 4-8 do. 8(A120) do
14	ONE	4#4 x 13-2 do. 20(A120) 10EF
15	ONE	4#4 x 36-11 do. 52(A120) 26EF
16	ONE	4#4 x 3-8 do. 6(A120) 3EF

DRAIN PIPE ENCASEMENT PLAN
NTS



REF: A/HW-18 9 1/2 ID / DL-4 FOR
ADD'L. ENCASED PIPING FROM GRIT
CHAMBERS TO PUMP ROOM.

REF: A/HW-18 FOR ADD'L. GRADE
BEAM TO SUPPORT ENCASEMENTS

LEGEND O.F. - OUTSIDE FACE I.F. - INSIDE FACE E.F. - EACH FACE HORIZ. - HORIZONTAL VERT. - VERTICAL DWLS. - DOWELS FTG. - FOOTING ELEV. - ELEVATION E.W. - EACH WAY T.O.F. - TOP OF FOOTING B.O.F. - BOTTOM OF FOOTING T.O.W. - TOP OF WALL B.O.W. - BOTTOM OF WALL GRD. BM. - GRADE BEAM MK. - MARK MAS. - MASONRY DIAG. - DIAGONAL COL. - COLUMN PROJ. - PROJECTION T & B - TOP & BOTTOM N.F. - NEAR FACE F.F. - FAR FACE % - ON CENTER @ - AT EACH	NO. DATE	ISSUED FOR
	6151 APPROVD. FOR CONST.	
DALCO INDUSTRIES, INC. An Employee Owned Company AREA CODE 303 371-9950 3730 SALEM ST. DENVER, COLO. 80239		
JOB HAROLD D. THOMPSON REG. WATER RECLAIM.		
LOCATION FOUNTAIN, CO.		
DESCRIPTION DRAIN PIPE ENCASEMENT PLAN		
CONTRACTOR WEAVER CONST.		
ARCHITECT GMS, INC.		
DRAWN: D. TAKIWA CHECKED:	DATE: 3-1-11 REVISIONS:	JOB NO. 10062 DRAWING NO. P12A