



Purchasing Services
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 Waco, Texas 76702-2570
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 Fax: 254-750-8063
victorv@wacotx.gov
www.waco-texas.com

CITY OF WACO

Date: 08/24/2020
 RFB No: 2020-048
 Commodity: WMARSS Central Plant Pipe Collapse Repair Project
 Purchasing Agent: Mr. Victor Venegas

Closing Time: 2:00 P.M. CST, Thursday, August 27, 2020
Opening Time: 2:01 P.M. CST, Thursday, August 27, 2020

RFB Opening Location: Operations Center, Purchasing Services Office, 1415 N. 4th St.,
 Waco, TX 76707

Addendum No: 1

The above-mentioned RFB invitation has been changed in the following manner. **Sign and return addendum to the Purchasing Office by the closing time and date with your RFB response.** Returning this page signed by your authorized agent will serve to acknowledge this change. All other requirements of the invitation remain unchanged. If you have any questions, please call, or stop by the Purchasing Office at the above address.

1. **The following is a revised bid sheet is to be used for this RFB. Please do not use the earlier bid sheet. Failure to use the revised bid sheet will disqualify the bid.**
2. **The next following pages has answers to questions raised, and clarifications & amendments to the specifications. Please review and note the changes.**
3. **For your review, are plan sheets for the area in the wastewater treatment plant where the work will be performed.**

Firm: _____

Address _____

Signature of Person
 Authorized to Sign Bid: _____

Signor's Name and Title
 (print or type): _____

E-mail Address: _____

Date: _____ Telephone: _____ Fax: _____

CITY OF WACO
OFFICIAL BID SHEET
BID INVITATION NO: RFB 2020-048
WMARSS Central Plant Pipe Collapse Repair Project

DATE: _____

BIDDER: _____

AUTHORIZED
SIGNATURE: _____

- I. Refer to "Standard Instructions for all Bids" before completing Bid Sheet.
 - a. Price: quote your best price, F.O.B. Destination, on each item.
- II. In submitting this bid, I certify:
 - a. Items bid are in exact accordance with specifications, unless noted in bid.
 - b. That prices in this bid have been arrived at independently, without consultation or agreement with any competitor for the purpose of restricting competition.

PRICING INFORMATION				
Note: Depending on the unit prices, requirements and approved budgeted funds, quantities may be reduced				
or increased during the contract period				
Item No.	Description	Unit Price (A)	No. of Units (B)	Total Price (A x B) = C
1.0	Mobilization (Maximum 5% of Bid)		Lump Sum	
2.0	18-inch SDR-26 PVC pipe, inclusive and installed at 13-foot depth		120 Linear Feet	
3.0	10-Inch SDR-26 PVC pipe inclusive and installed at 8-foot depth		20 Linear	
4.0	By-Pass Pumping (with 6-inch discharge pump)		200 Linear Feet	
5.0	Pavement Repair		240 Square Feet	
6.0	Remove and replace existing 4-inch thick concrete apron/riprap		5 Cubic Yards	
7.0	5-Foot Diameter Precast Manhole (provide and install)		2 Each	
8.0	Additional Backfill suitable for embedment and backfill		150 Cubic Yards	

9.0	Provide and install Bermuda Grass Seed		650 Square Feet	
10.0	Watering of grass seed (3 events per week over 3 weeks)		9 Each	
11.0	TOTAL PRICE			

Early Payment Terms:

- II. Bidder may offer an early payment discount by filling in the blanks in section b below. City may accept an early payment discount, but in doing so, City does not waive any of its rights under Texas Government Code Section 2251 (Prompt Payment Act).
- III. Payment is due thirty (30) DAYS after acceptance of order and receipt of an original invoice, but a _____ percent early payment discount is offered for full payment made within ____ () DAYS after acceptance of order and receipt of an original invoice.

(1) COMPLETED FORM MUST BE RETURNED WITH BID

CITY OF WACO
OFFICIAL BID SHEET
BID INVITATION NO: RFB 2020-048
WMARSS Central Plant Pipe Collapse Repair Project

Questions and Answers from the pre-bid meeting:

1. What is the flow of water in the 18-inch pipe?
The flow was estimated to be 1,588 g.p.m.
2. How will the City handle cost increases if the limit for changes orders is 25% of the original bid price?
Bid quantities have been increased and adjusted to account for possible change order increases.
3. Has the pipe been television inspected?
No. This is because of the possibility of getting the camera stuck inside the pipe.
4. Can the 8-inch water line be turned off during the construction?
Yes. The water from the 8-inch water line can be turned off during construction. 48 hours advanced notice is to be given to the plant superintendent before the water is shut off.
5. Does the 10-inch clay pipe have to be replaced?
Yes. The pipe must be replaced. There is bid item in the RFB to address this item.
6. Will we have partial or full access to the road during the construction?
The road will be closed during construction. The contractor will have full access.
7. Can native soil be used to backfill the excavation?
Native soil will be allowed to be used in around areas where soil indentions are visible. However, backfilling the pipe trench and under the road backfill and compaction must meet City Standards and Specifications.
8. Will the City consider installing and managing the by-pass pumping for this project?
No. The City wishes to have the contractor manage the bypass pumping to keep one person in control of all aspects of the project.

9. The bid form, item # 4, has bypass pumping as a unit of 200 LF. There will be temporary piping used, but other items also are used for bypass pumping, like temporary pumps. Can this item be a LS (Lump Sum) item?
No. The other items (temp piping, etc.) should be factored into the unit price of the bid item. Unit price is being used to accommodate potential variations in the length of the by-pass.

Technical Specifications (WMARSS Pipe Collapse): REVISED

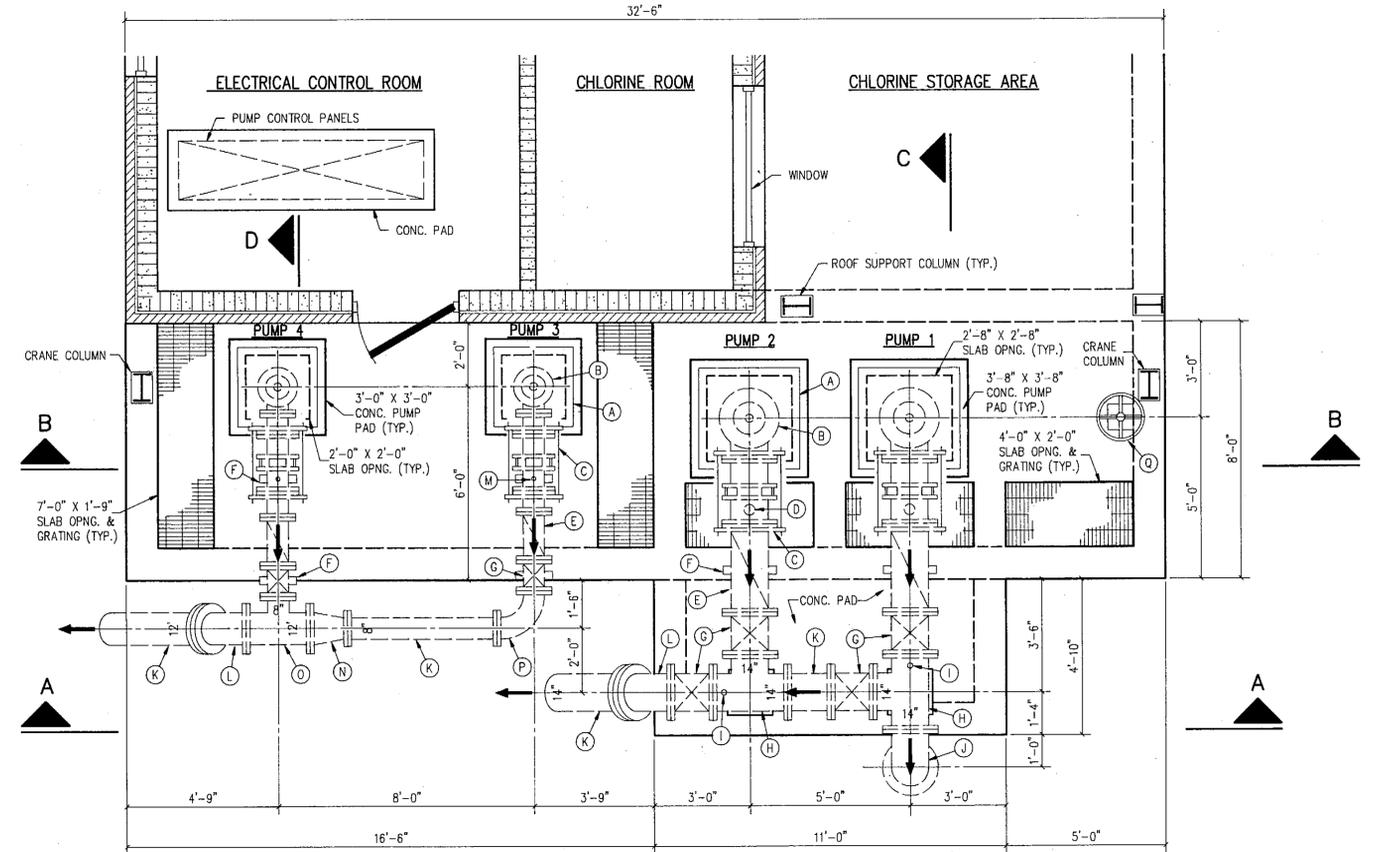
1. The concrete riprap/apron is to be made of standard 3,000 psi concrete. The new concrete is to match the existing in angle and thickness.
2. The backfill is to standard backfill material per the appropriate sections of the City of Waco Standard Specifications, and Detail G-4 in the Manual of Standard Details
3. The surface replacement is to be per the appropriate sections of the City of Waco Standard Specifications and Detail G-5 in the Manual of Standard Details.
4. The new asphalt pavement is to match or be thicker than the existing asphalt pavement.
5. The by-pass pumping will have to be maintained and managed 24 hours a day when in operation. It will be the contractor's responsibility to ensure it runs without conflicts, breakdowns and backups.

LEGEND

LETTER	DESCRIPTION
A	PUMP BASE PLATE
B	PUMP & MOTOR
C	THRUST HARNESS & FLEXIBLE COUPLING
D	4" AIR & VACUUM RELEASE VALVE
E	CHECK VALVE
F	SADDLE TYPE PIPE SUPPORT
G	GATE VALVE
H	BASE TEE
I	2" AIR & VACUUM RELEASE VALVE
J	90° BEND
K	SPOOL
L	45° BEND
M	1 1/2" CORPORATION COCK
N	CONCENTRIC REDUCER
O	TEE
P	LONG RADIUS 90° BEND
Q	SLUICE GATE OPERATOR
R	WALL PIPE
S	PLUG VALVE
T	BLIND FLANGE
U	SLUICE GATE
V	PUMP IMPELLAR
W	SIDE OUTLET 90° BEND
X	LADDER
Y	WYE
Z	REDUCING 90° BEND

NOTES:

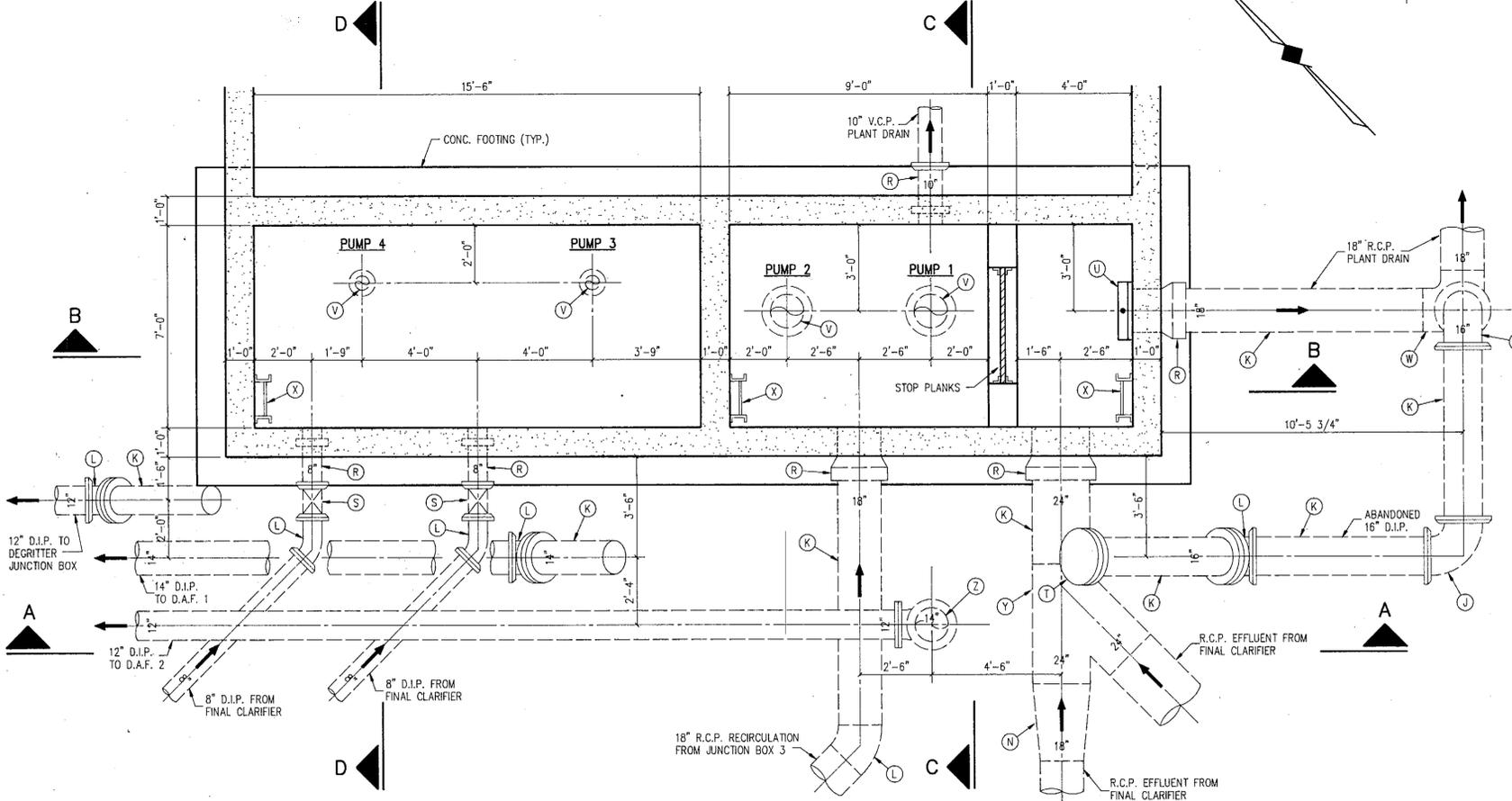
1. THIS LEGEND APPLIES TO THIS SHEET ONLY.
2. EXISTING PIPING, STRUCTURES & DIMENSIONS WERE TAKEN FROM "CONSTRUCTION PLANS FOR REGIONAL SEWAGE TREATMENT PLANT 2" BY FORREST & COTTON CONSULTING ENGINEERS, DALLAS, TEXAS (DATED DECEMBER, 1969).
3. ADDITIONAL PIPING & DIMENSIONS WERE TAKEN FROM "CONSTRUCTION PLANS FOR IMPROVEMENTS TO TREATMENT PLANT 2" BY SHIMEK, ROMING, JACOBS & FINKLEA CONSULTING ENGINEERS, DALLAS, TEXAS (DATED MAY, 1975).
4. ALL FOUR PUMPS WERE REPLACED (WITH UNITS OF SIMILAR TYPE) AND SOME PIPING CHANGES WERE MADE, AS DESCRIBED IN "CONSTRUCTION PLANS FOR REGIONAL TREATMENT PLANT EXPANSION" BY SHIMEK, JACOBS & FINKLEA CONSULTING ENGINEERS (DATED DECEMBER, 1981). PERTINENT CHANGES ARE SHOWN.
5. THE OWNER RECENTLY REPLACED PUMP 1 (VERTICAL TURBINE PUMP) WITH A HORIZONTAL CENTRIFUGAL PUMP. THE PIPING CHANGES ARE NOT CURRENTLY REFLECTED ON ANY CONSTRUCTION PLANS. SEE "PROPOSED" DRAWINGS WHICH FOLLOW.
6. CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT PIPING, STRUCTURES, DIMENSIONS, ELEVATIONS AND FLOWLINES PRIOR TO BEGINNING WORK.



PLAN OF EXISTING PUMP SLAB

SCALE: 3/8" = 1'-0"

NOTE:
COMPONENTS OF PUMP HEADERS 1 AND 2 ARE TYPICAL. COMPONENTS OF PUMP HEADERS 3 AND 4 ARE TYPICAL.



PLAN OF EXISTING UNDERGROUND PIPING

SCALE: 3/8" = 1'-0"

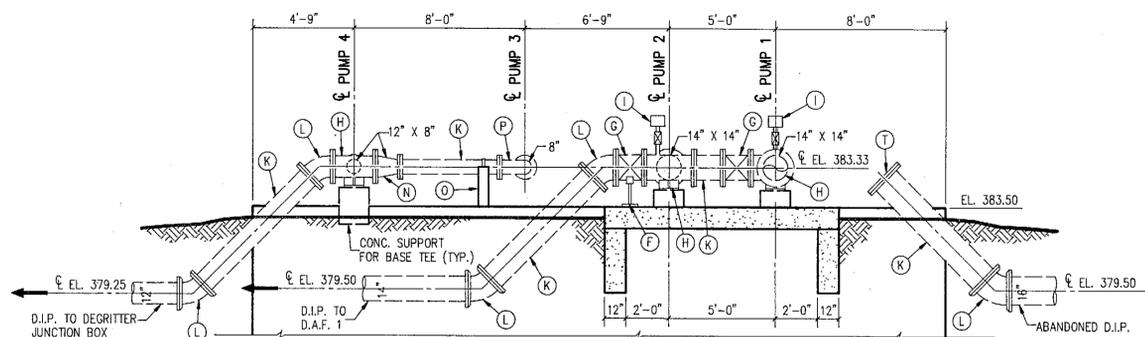
These plans and related specifications were prepared for construction of this specific project only. Reuse of these documents is not permitted without written authorization of Shimek, Jacobs & Finklea.

BRAZOS RIVER AUTHORITY
WACO METROPOLITAN AREA REGIONAL SEWERAGE SYSTEM
REGIONAL TREATMENT PLANT
RECIRCULATION PUMP STATION
EXISTING PLAN VIEWS
SHIMEK, JACOBS & FINKLEA
CONSULTING ENGINEERS
Dallas, Texas

James E. Joughlin
8/1/89
REGISTERED PROFESSIONAL ENGINEER
STATE OF TEXAS
17812

DESIGNED BY: J.E.L.	PROJECT: 88 129	SHEET NO. 1
DRAWN BY: G.A.D.	DATE: AUG 1989	OF 4 SHEETS

076-88129-000



SECTION A-A

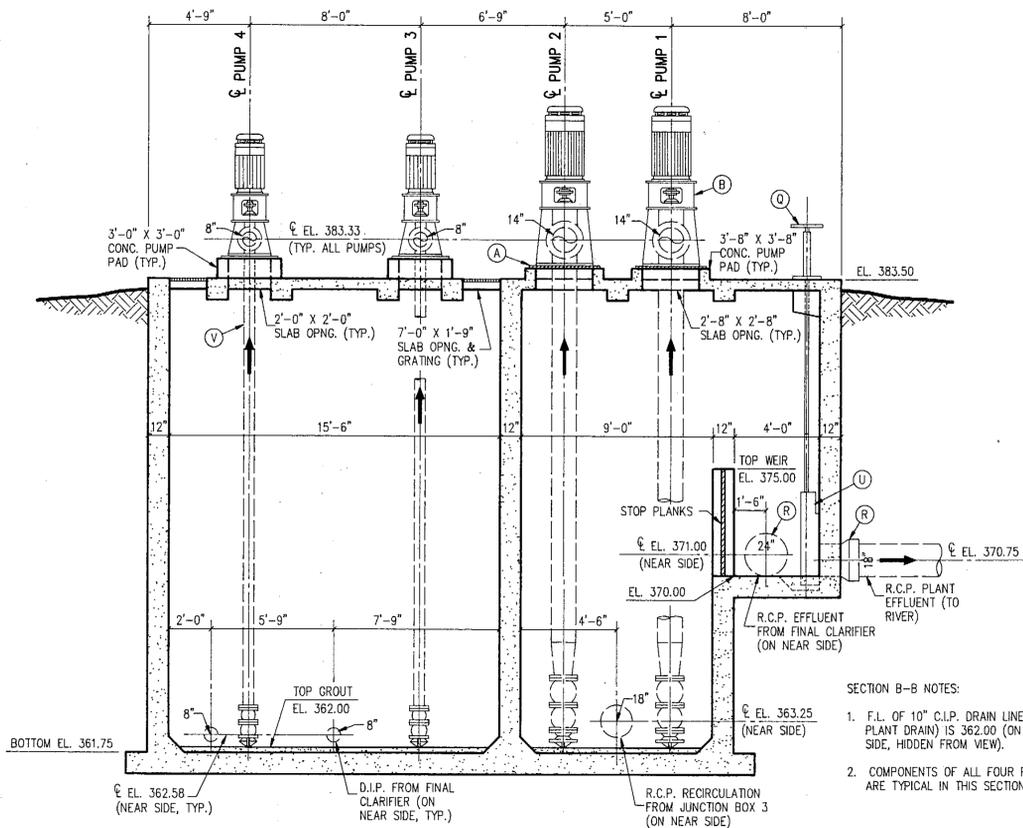
SCALE: 1/4" = 1'-0"

LEGEND

LETTER	DESCRIPTION
A	PUMP BASE PLATE
B	PUMP & MOTOR
C	THRUST HARNESS & FLEXIBLE COUPLING
D	4" AIR & VACUUM RELEASE VALVE
E	CHECK VALVE
F	SADDLE TYPE PIPE SUPPORT
G	GATE VALVE
H	BASE TEE
I	2" AIR & VACUUM RELEASE VALVE
J	90° BEND
K	SPOOL
L	45° BEND
M	1 1/2" CORPORATION COCK
N	CONCENTRIC REDUCER
O	CONCRETE PIPE SUPPORT & STRAP
P	LONG RADIUS 90° BEND
Q	SLUIGE GATE OPERATOR
R	WALL PIPE
S	PLUG VALVE
T	BLIND FLANGE
U	SLUIGE GATE
V	PUMP IMPELLAR
W	REDUCING 90° BEND

NOTES:

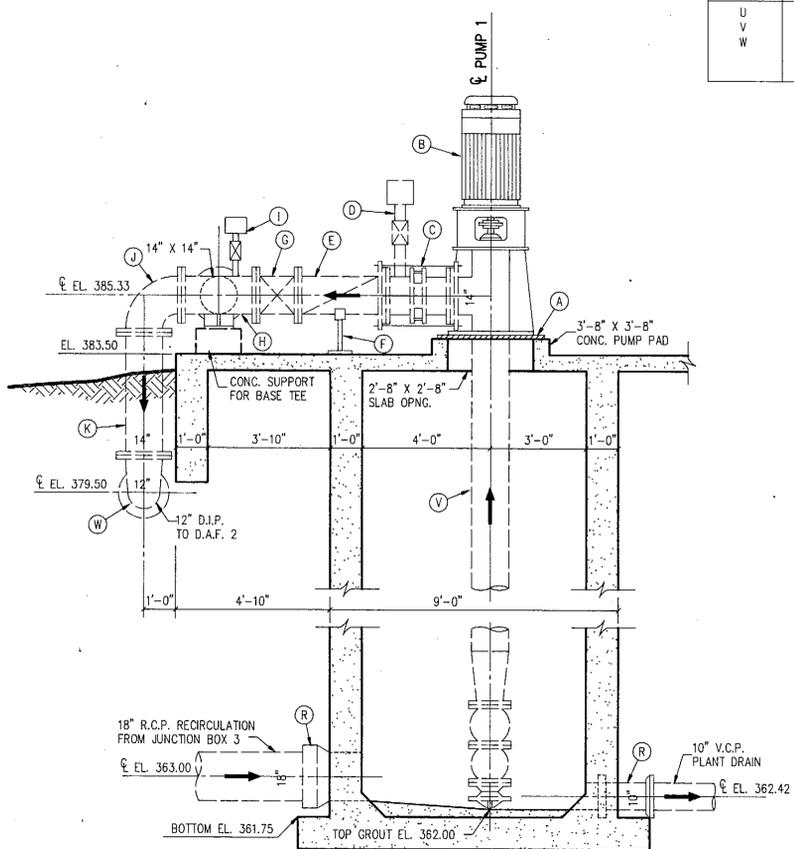
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SECTION B-B

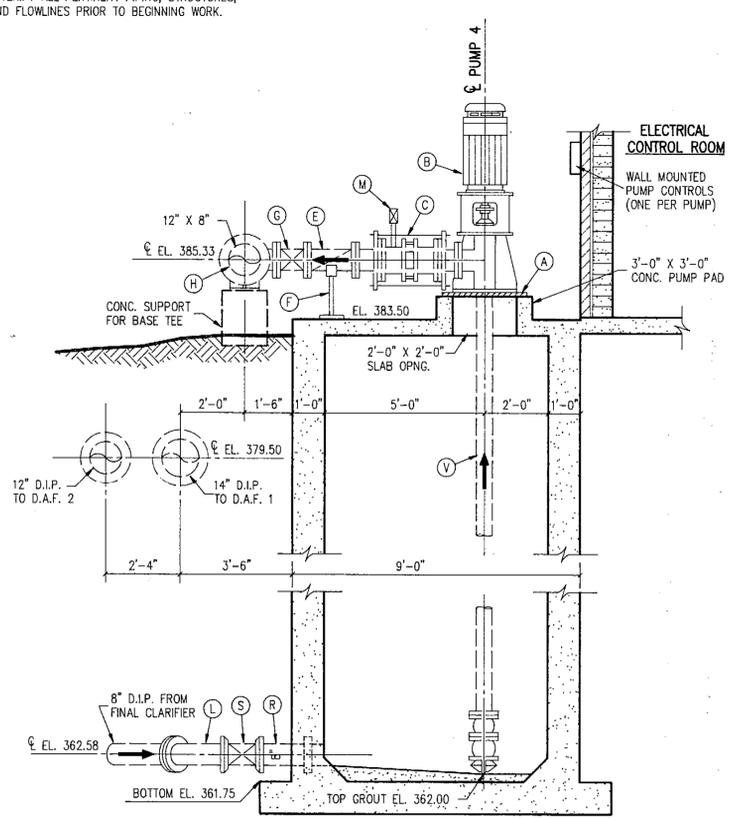
SCALE: 1/4" = 1'-0"

- SECTION B-B NOTES:**
1. F.L. OF 10" C.I.P. DRAIN LINE (TO PLANT DRAIN) IS 362.00 (ON FAR SIDE, HIDDEN FROM VIEW).
 2. COMPONENTS OF ALL FOUR PUMPS ARE TYPICAL IN THIS SECTION.



SECTION C-C

SCALE: 3/8" = 1'-0"



SECTION D-D

SCALE: 3/8" = 1'-0"

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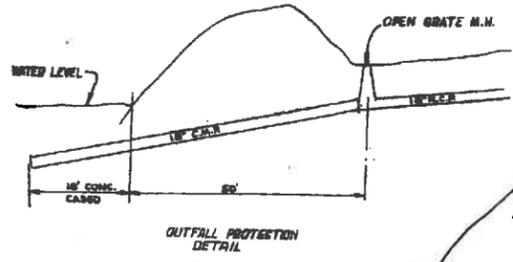
BRAZOS RIVER AUTHORITY
WACO METROPOLITAN AREA REGIONAL SEWAGE SYSTEM
REGIONAL TREATMENT PLANT
RECIRCULATION PUMP STATION
EXISTING SECTIONS
SHIMEK, JACOBS & FINKLEA
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.E.L. PROJECT: 88 129 SHEET NO. 2
DRAWN BY: G.A.D. DATE: AUG 1989 OF 4 SHEETS

James E. Laughlin
8/1/89



REVISIONS TO CONFORM WITH CONSTRUCTION RECORDS
BY STL DATE 3/27/90



LINE	DESCRIPTION
A	20" Ø R.C.P. PLANT EFFLUENT FROM M.H. TO LIFT STATION
B	20" Ø R.C.P. G.I.P. EFFLUENT TO PRIMARY CLARIFIER
C	18" Ø C.I.P. PRIMARY CLARIFIER BY-PASS
D	18" Ø C.I.P. PRIMARY CLARIFIER AND PLANT BY-PASS
E	12" Ø C.I.P. PRIMARY FILTER RECIRCULATION
F	18" Ø R.C.P. PRIMARY FILTER INFLUENT
G	18" Ø R.C.P. PRIMARY CLARIFIER EFFLUENT
H	8" Ø C.I.P. PRIMARY SLUDGE EFFLUENT
J	18" Ø C.I.P. PRIMARY EFFLUENT
K	18" Ø R.C.P. SECONDARY FILTER INFLUENT
L	18" Ø C.I.P. PRIMARY FILTER EFFLUENT BY-PASS
M	18" Ø R.C.P. PLANT BY-PASS
N	18" Ø R.C.P. FINAL CLARIFIER BY-PASS
O	18" Ø C.I.P. RECIRCULATION LINE
P	18" Ø R.C.P. FINAL CLARIFIER INFLUENT
U	8" Ø C.I.P. THICKENER MAKE-UP WATER LINE
V	8" Ø S.I.P. FINAL CLARIFIER SLUDGE WASTEWATER
W	18" Ø R.C.P. PLANT BY-PASS
X	18" Ø R.C.P. FINAL CLARIFIER EFFLUENT
Y	8" Ø S.I.P. THICKENER EFFLUENT

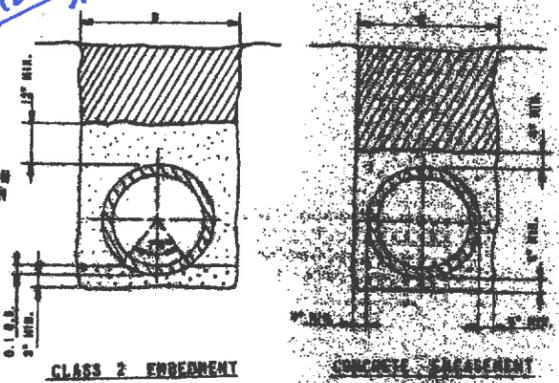
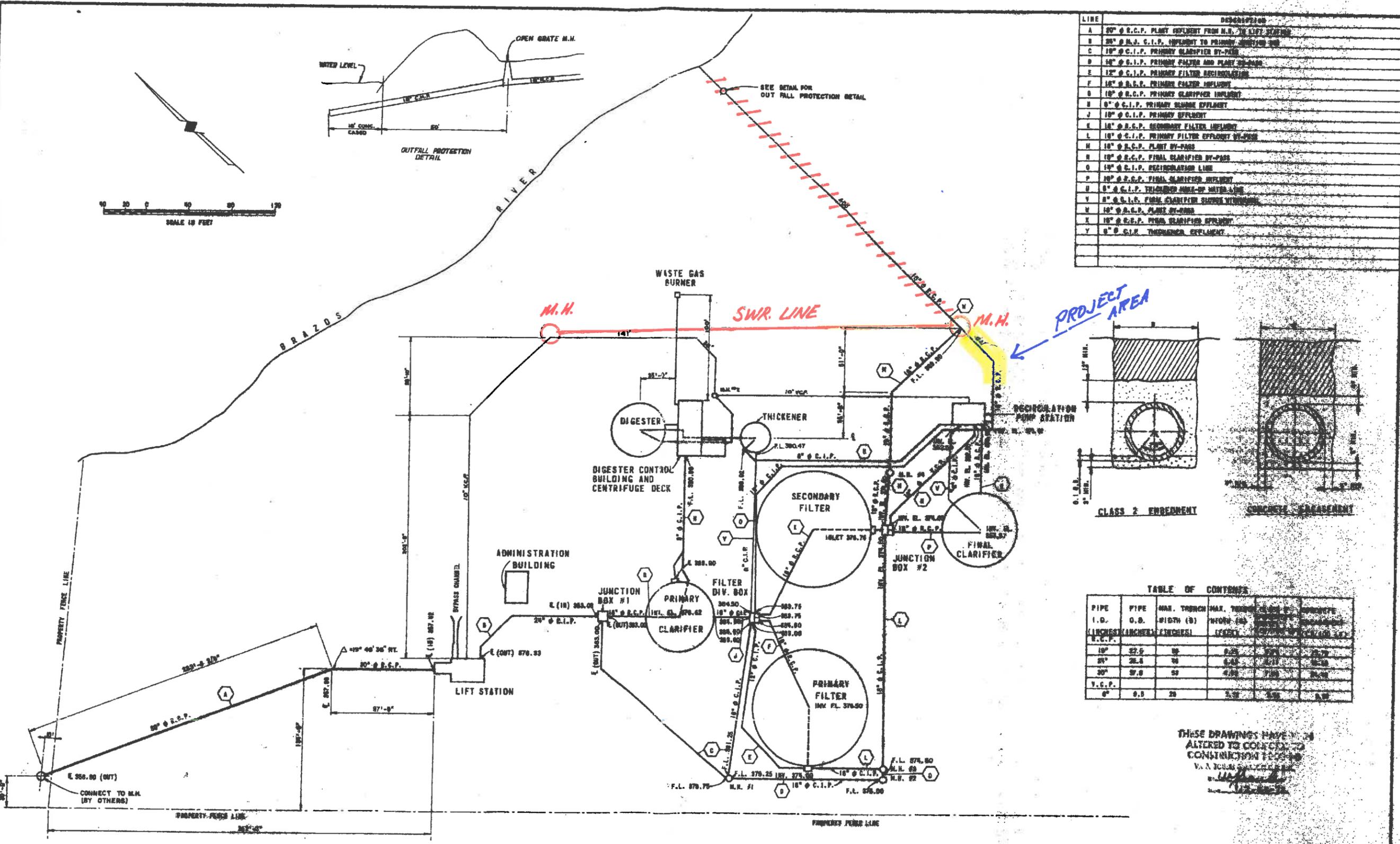


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PIPE I.D.	PIPE O.D.	MAX. TRENCH WIDTH (B)	MAX. TRENCH WIDTH (C)	MINOR (D)	MINOR (E)	MINOR (F)
(INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES)
18" C.I.P.	22.5	36	42	24	24	24
24" C.I.P.	28.5	42	48	30	30	30
30" C.I.P.	34.5	48	54	36	36	36
36" C.I.P.	40.5	54	60	42	42	42
42" C.I.P.	46.5	60	66	48	48	48
48" C.I.P.	52.5	66	72	54	54	54
54" C.I.P.	58.5	72	78	60	60	60
60" C.I.P.	64.5	78	84	66	66	66
66" C.I.P.	70.5	84	90	72	72	72
72" C.I.P.	76.5	90	96	78	78	78
78" C.I.P.	82.5	96	102	84	84	84
84" C.I.P.	88.5	102	108	90	90	90
90" C.I.P.	94.5	108	114	96	96	96
96" C.I.P.	100.5	114	120	102	102	102
102" C.I.P.	106.5	120	126	108	108	108
108" C.I.P.	112.5	126	132	114	114	114
114" C.I.P.	118.5	132	138	120	120	120
120" C.I.P.	124.5	138	144	126	126	126
126" C.I.P.	130.5	144	150	132	132	132
132" C.I.P.	136.5	150	156	138	138	138
138" C.I.P.	142.5	156	162	144	144	144
144" C.I.P.	148.5	162	168	150	150	150
150" C.I.P.	154.5	168	174	156	156	156
156" C.I.P.	160.5	174	180	162	162	162
162" C.I.P.	166.5	180	186	168	168	168
168" C.I.P.	172.5	186	192	174	174	174
174" C.I.P.	178.5	192	198	180	180	180
180" C.I.P.	184.5	198	204	186	186	186
186" C.I.P.	190.5	204	210	192	192	192
192" C.I.P.	196.5	210	216	198	198	198
198" C.I.P.	202.5	216	222	204	204	204
204" C.I.P.	208.5	222	228	210	210	210
210" C.I.P.	214.5	228	234	216	216	216
216" C.I.P.	220.5	234	240	222	222	222
222" C.I.P.	226.5	240	246	228	228	228
228" C.I.P.	232.5	246	252	234	234	234
234" C.I.P.	238.5	252	258	240	240	240
240" C.I.P.	244.5	258	264	246	246	246
246" C.I.P.	250.5	264	270	252	252	252
252" C.I.P.	256.5	270	276	258	258	258
258" C.I.P.	262.5	276	282	264	264	264
264" C.I.P.	268.5	282	288	270	270	270
270" C.I.P.	274.5	288	294	276	276	276
276" C.I.P.	280.5	294	300	282	282	282
282" C.I.P.	286.5	300	306	288	288	288
288" C.I.P.	292.5	306	312	294	294	294
294" C.I.P.	298.5	312	318	300	300	300
300" C.I.P.	304.5	318	324	306	306	306
306" C.I.P.	310.5	324	330	312	312	312
312" C.I.P.	316.5	330	336	318	318	318
318" C.I.P.	322.5	336	342	324	324	324
324" C.I.P.	328.5	342	348	330	330	330
330" C.I.P.	334.5	348	354	336	336	336
336" C.I.P.	340.5	354	360	342	342	342
342" C.I.P.	346.5	360	366	348	348	348
348" C.I.P.	352.5	366	372	354	354	354
354" C.I.P.	358.5	372	378	360	360	360
360" C.I.P.	364.5	378	384	366	366	366
366" C.I.P.	370.5	384	390	372	372	372
372" C.I.P.	376.5	390	396	378	378	378
378" C.I.P.	382.5	396	402	384	384	384
384" C.I.P.	388.5	402	408	390	390	390
390" C.I.P.	394.5	408	414	396	396	396
396" C.I.P.	400.5	414	420	402	402	402
402" C.I.P.	406.5	420	426	408	408	408
408" C.I.P.	412.5	426	432	414	414	414
414" C.I.P.	418.5	432	438	420	420	420
420" C.I.P.	424.5	438	444	426	426	426
426" C.I.P.	430.5	444	450	432	432	432
432" C.I.P.	436.5	450	456	438	438	438
438" C.I.P.	442.5	456	462	444	444	444
444" C.I.P.	448.5	462	468	450	450	450
450" C.I.P.	454.5	468	474	456	456	456
456" C.I.P.	460.5	474	480	462	462	462
462" C.I.P.	466.5	480	486	468	468	468
468" C.I.P.	472.5	486	492	474	474	474
474" C.I.P.	478.5	492	498	480	480	480
480" C.I.P.	484.5	498	504	486	486	486
486" C.I.P.	490.5	504	510	492	492	492
492" C.I.P.	496.5	510	516	498	498	498
498" C.I.P.	502.5	516	522	504	504	504
504" C.I.P.	508.5	522	528	510	510	510
510" C.I.P.	514.5	528	534	516	516	516
516" C.I.P.	520.5	534	540	522	522	522
522" C.I.P.	526.5	540	546	528	528	528
528" C.I.P.	532.5	546	552	534	534	534
534" C.I.P.	538.5	552	558	540	540	540
540" C.I.P.	544.5	558	564	546	546	546
546" C.I.P.	550.5	564	570	552	552	552
552" C.I.P.	556.5	570	576	558	558	558
558" C.I.P.	562.5	576	582	564	564	564
564" C.I.P.	568.5	582	588	570	570	570
570" C.I.P.	574.5	588	594	576	576	576
576" C.I.P.	580.5	594	600	582	582	582
582" C.I.P.	586.5	600	606	588	588	588
588" C.I.P.	592.5	606	612	594	594	594
594" C.I.P.	598.5	612	618	600	600	600
600" C.I.P.	604.5	618	624	606	606	606
606" C.I.P.	610.5	624	630	612	612	612
612" C.I.P.	616.5	630	636	618	618	618
618" C.I.P.	622.5	636	642	624	624	624
624" C.I.P.	628.5	642	648	630	630	630
630" C.I.P.	634.5	648	654	636	636	636
636" C.I.P.	640.5	654	660	642	642	642
642" C.I.P.	646.5	660	666	648	648	648
648" C.I.P.	652.5	666	672	654	654	654
654" C.I.P.	658.5	672	678	660	660	660
660" C.I.P.	664.5	678	684	666	666	666
666" C.I.P.	670.5	684	690	672	672	672
672" C.I.P.	676.5	690	696	678	678	678
678" C.I.P.	682.5	696	702	684	684	684
684" C.I.P.	688.5	702	708	690	690	690
690" C.I.P.	694.5	708	714	696	696	696
696" C.I.P.	700.5	714	720	702	702	702
702" C.I.P.	706.5	720	726	708	708	708
708" C.I.P.	712.5	726	732	714	714	714
714" C.I.P.	718.5	732	738	720	720	720
720" C.I.P.	724.5	738	744	726	726	726
726" C.I.P.	730.5	744	750	732	732	732
732" C.I.P.	736.5	750	756	738	738	738
738" C.I.P.	742.5	756	762	744	744	744
744" C.I.P.	748.5	762	768	750	750	750
750" C.I.P.	754.5	768	774	756	756	756
756" C.I.P.	760.5	774	780	762	762	762
762" C.I.P.	766.5	780	786	768	768	768
768" C.I.P.	772.5	786	792	774	774	774
774" C.I.P.	778.5	792	798	780	780	780
780" C.I.P.	784.5	798	804	786	786	786
786" C.I.P.	790.5	804	810	792	792	792
792" C.I.P.	796.5	810	816	798	798	798
798" C.I.P.	802.5	816	822	804	804	804
804" C.I.P.	808.5	822	828	810	810	810
810" C.I.P.	814.5	828	834	816	816	816
816" C.I.P.	820.5	834	840	822	822	822
822" C.I.P.	826.5	840	846	828	828	828
828" C.I.P.	832.5	846	852	834	834	834
834" C.I.P.	838.5	852	858	840	840	840
840" C.I.P.	844.5	858	864	846	846	846
846" C.I.P.	850.5	864	870	852	852	852
852" C.I.P.	856.5	870	876	858	858	858
858" C.I.P.	862.5	876	882	864	864	864
864" C.I.P.	868.5	882	888	870	870	870
870" C.I.P.	874.5	888	894	876	876	876
876" C.I.P.	880.5	894	900	882	882	882
882" C.I.P.	886.5	900	906	888	888	888
888" C.I.P.	892.5	906	912	894	894	894
894" C.I.P.	898.5	912	918	900	900	900
900" C.I.P.	904.5	918	924	906	906	906
906" C.I.P.	910.5	924	930	912	912	912
912" C.I.P.	916.5	930	936	918	918	918
918" C.I.P.	922.5	936	942	924	924	924
924" C.I.P.	928.5	942	948	930	930	930
930" C.I.P.	934.5	948	954	936	936	936
936" C.I.P.	940.5	954	960	942	942	942
942" C.I.P.	946.5	960	966	948	948	948
948" C.I.P.	952.5	966	972	954	954	954
954" C.I.P.	958.5	972	978	960	960	960
960" C.I.P.	964.5	978	984	966	966	966
966" C.I.P.	970.5	984	990	972	972	972
972" C.I.P.	976.5	990	996	978	978	978
978" C.I.P.	982.5	996	1002	984	984	984
984" C.I.P.	988.5	1002	1008	990	990	990
990" C.I.P.	994.5	1008	1014	996	996	996
996" C.I.P.	1000.5	1014	1020	1002	1002	1002
1002" C.I.P.	1006.5	1020	1026	1008	1008	1008
1008" C.I.P.	1012.5	1026	1032	1014		