



## CITY OF BRAWLEY STANDARD DETAILS

### WATER

B-1	NEW 1" WATER SERVICE
B-1B	NEW 2" WATER SERVICE
B-2	THRUST BLOCK
B-3	RESIDENTIAL FIRE HYDRANT DETAIL
B-3B	COMMERCIAL FIRE HYDRANT DETAIL
B-4	BLOW OFF
B-5	VALVE BOX COLLAR

### SEWER

C-6	NEW SEWER SERVICE
C-6B	NEW SEWER TAP AND SERVICE

### STREET

E-1	HALF STREET DETAIL
E-2	LIGHT TRAFFIC ALLEY CROSS CONNECTION (2/8)

### CURB & GUTTER

F-2B	CURB & GUTTER DETAIL
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### DRIVEWAY

G-2	COMMERICAL DRIVEWAY DETAIL
G-3	RESIDENTIAL DRIVEWAY DETAIL
G-4	SIDEWALK DETAIL
G-6	ALLEY APPROACH

### STREET LIGHTS AND TRAFFIC SIGNING

H-1	STREET LIGHT DETAIL
H-7	TRAFFIC REGULATORY SIGNING
H-8	STREET NAME SIGN INSTALLATION
H-9	STREET NAME SIGN

### MISC. DETAILS

I-1	TRASH ENCLOSURES DETAIL
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CITY OF BRAWLEY PUBLIC WORKS 760-344-5800 FAX 760-344-5612

A copy of the proposed site plan shall be submitted as soon as one is available for review by the Public Works Department. Three copies shall be submitted.

The developer will have to hire either an "A" General Engineering contractor license or a "C" Plumber

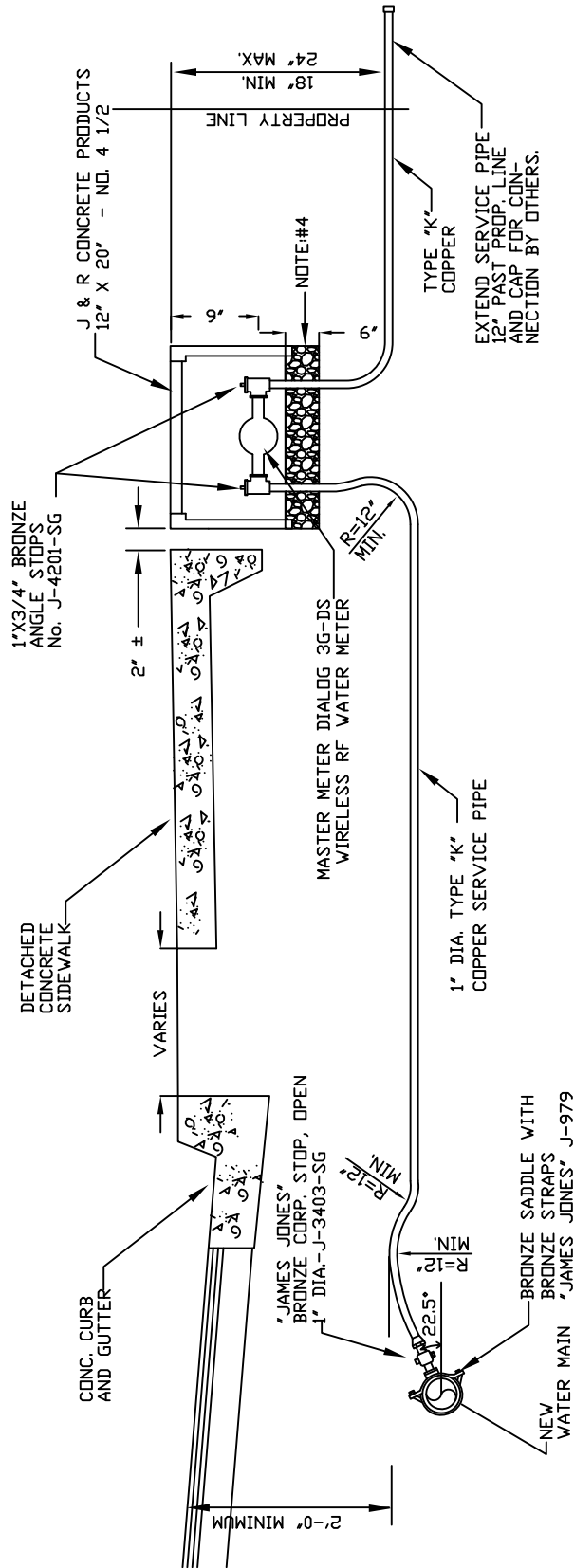
Specialty contractor license to perform a sewer tap.

Specialty Contractor License to perform all sidewalk, driveway and approaches.

The Public Works Department require the contractor to contact the department at least 48 hours prior to any proposed construction work at (760) 344-5800.

If a citizen would like the Public Works Department to locate a water main or sewer main, the administrative assistant may make a work order for the streets and utilities department and it may be marked out within five working days.

The City may perform the connection to the water main as long as the fees for the connection are paid at City Hall. The address to City Hall is 400 Main Street.



- NOTES:
1. ALL TRENCH BACKFILL TO BE COMPACTED 90% AND RANDOMLY TESTED FOR DENSITY.
  2. PROVIDE ONE SERVICE FOR EACH LOT.
  3. STAMP CURB WITH 'W' FOR LATERAL LOCATION.
  4. INSTALL A MINIMUM OF 6" OF 3/4" ROCK BENEATH THE WATER METER BOX AND METER.



CITY OF BRAWLEY  
 ENGINEERING DEPT.  
 180 S. WESTERN AVE.  
 BRAWLEY, CA 92227  
 (760) 344-5800

APPROVED BY CITY ENGINEER:

STANDARD DETAILS

SCALE:

NTS

NEW 1" WATER SERVICE

B-1

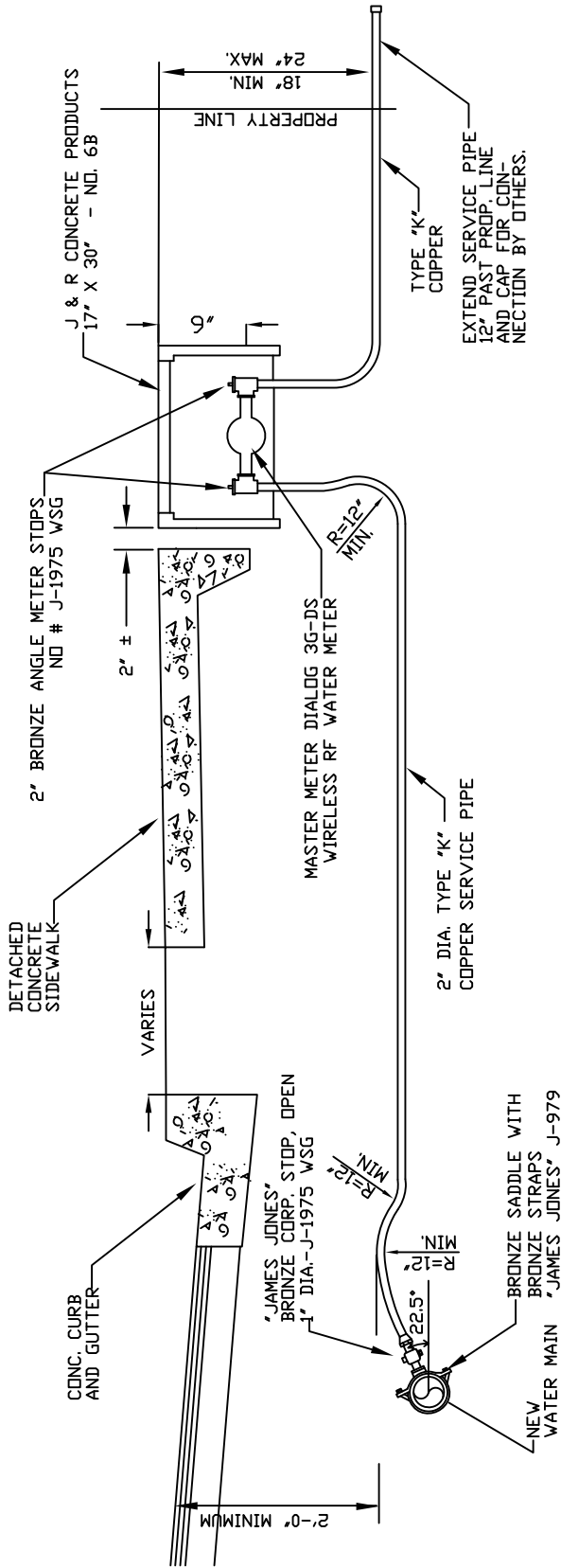
BRAWLEY, CALIFORNIA

DATE:  
12/6/06

BY:  
A.C.

OWNER: CITY OF BRAWLEY

JOB NO.



**NOTES:**

1. ALL TRENCH BACKFILL TO BE COMPACTED 90% AND RANDOMLY TESTED FOR DENSITY.
2. PROVIDE ONE SERVICE FOR EACH LOT.
3. STAMP CURB WITH 'W' FOR LATERAL LOCATION.



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APPROVED BY CITY ENGINEER:

STANDARD DETAILS

SCALE: NTS

NEW 2" WATER SERVICE

B-1B

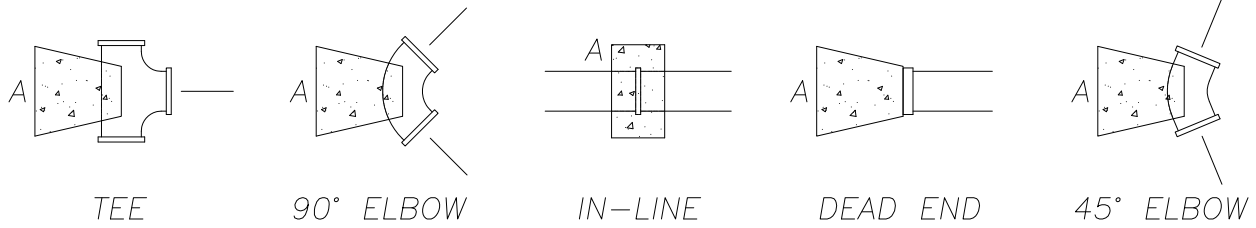
BRAWLEY, CALIFORNIA

DATE: 4/11/06

BY: A.C.

OWNER: CITY OF BRAWLEY

JOB NO.



MINIMUM SQUARE FEET OF BEARING AREA REQUIRED FOR CONCRETE THRUST BLOCKS TESTED AT 100 PSI					
PIPE SIZE	TEE	90° ELBOW	IN-LINE	DEAD END	45° BEND
6" DIA.	3.7	5.3	3.7	3.7	2.9
8" DIA.	6.4	9.1	6.4	6.4	4.9
12" DIA.	13.7	19.4	13.7	13.7	10.5
14" DIA.	18.4	26.0	18.4	18.4	14.1
16" DIA.	23.8	26.00	23.8	23.8	18.3
18" DIA.	29.9	33.6	29.9	29.9	23.0

**NOTES:**

INDICATED AREAS SHALL BEAR ON FIRM, UNDISTURBED OR WELL-COMPACTED SOIL  
 IN-LINE THRUST BLOCK SHALL INCLUDE EMBEDDED JOINT RESTRAINT DEVICES  
 ALL CONCRETE SHALL BE NO LESS THAN 2000 P.S.I. AT 7 DAYS  
 PROJECT TEST PRESSURES SHALL BE NO LESS THAN 125 P.S.I.

## TYPICAL CONCRETE THRUST BLOCK DETAILS



CITY OF BRAWLEY  
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 180 S. WESTERN AVE.  
 BRAWLEY, CA 92227  
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STANDARD DETAILS

SCALE: **NTS**

THRUST BLOCK

B-2

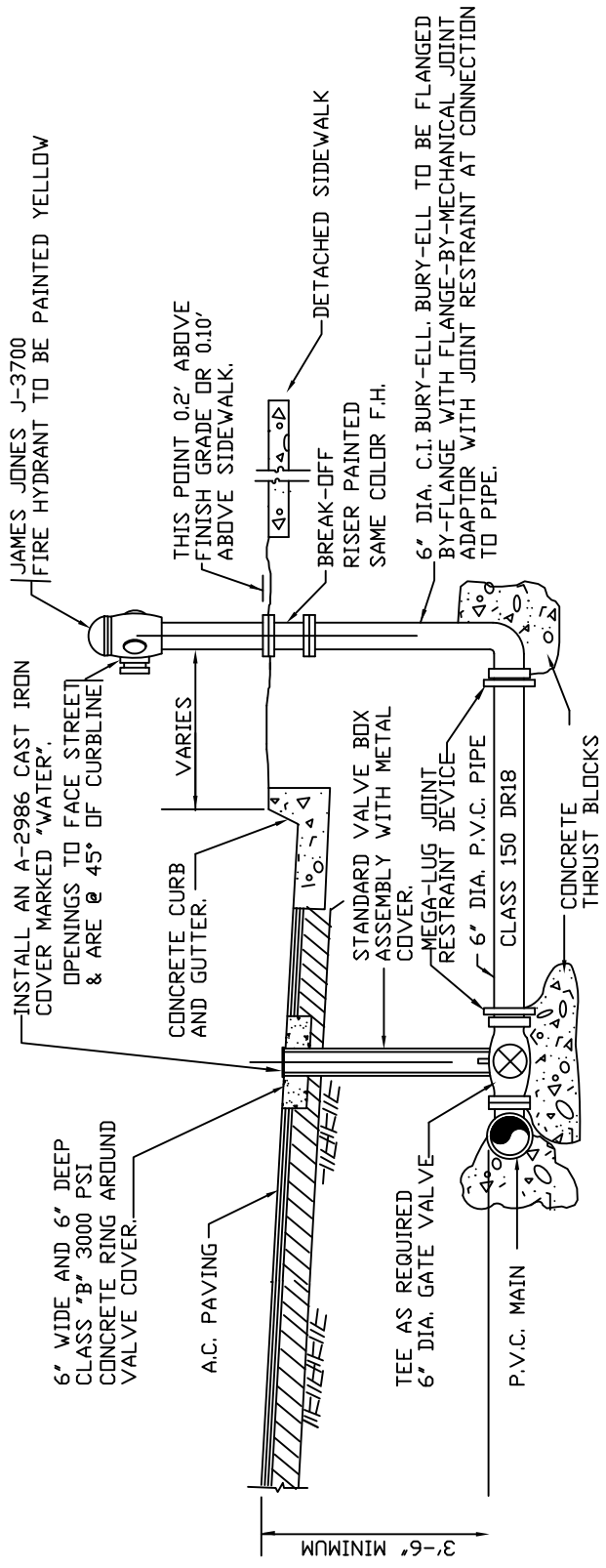
BRAWLEY, CALIFORNIA

DATE  
8/11/03

BY  
A.C.


OWNER  
CITY OF BRAWLEY

JOB  
No.

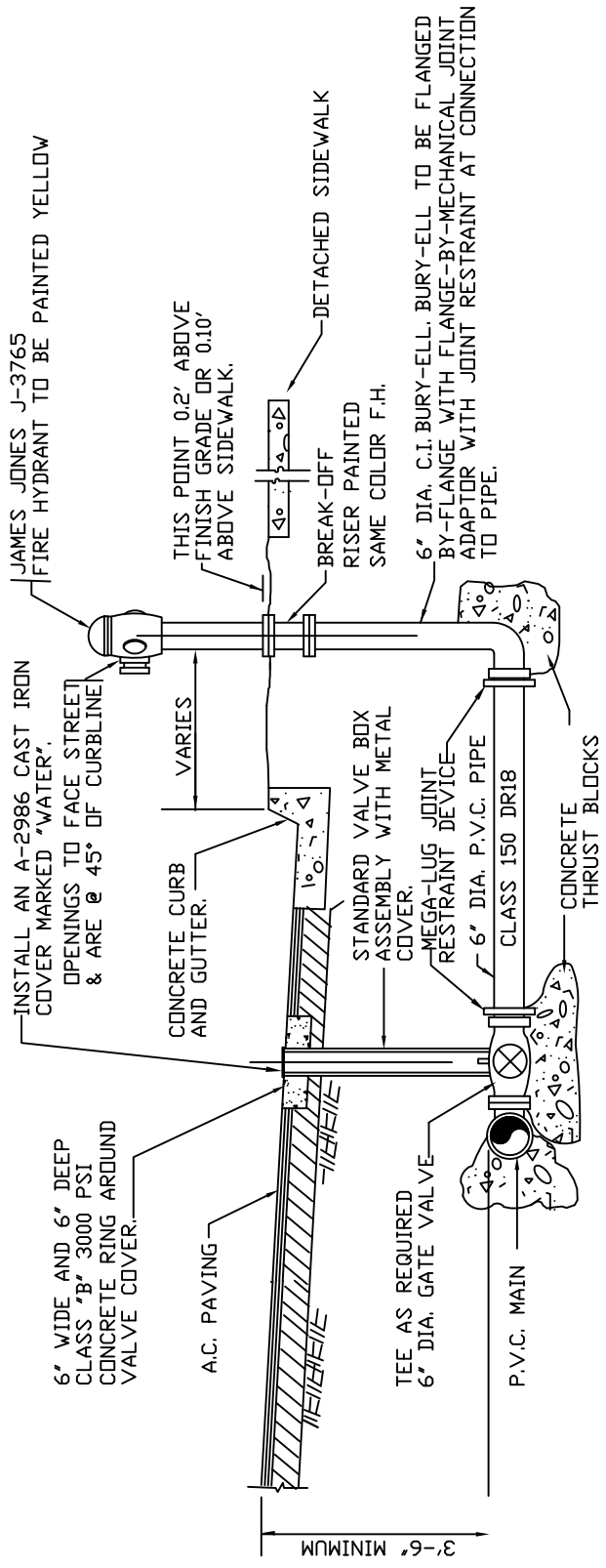


**NOTES:**

1. ALL FITTINGS TO BE CEMENT MORTAR LINED
2. NO VERTICAL OBJECTS WITHIN 6 FEET OF FIRE-HYDRANT
3. RESIDENTIAL 1-4" & 1-2 1/2"-JAMES JONES J-3700 FIRE HYDRANT.
4. ALL TRENCHES SHALL BE BACKFILLED WITH SAND AND COMPACTED TO 95%.
5. C-900 CLASS 150 P.V.C. DR18 PIPE FOR THE VERTICAL PIECE ON TOP OF THE VALVE.


	CITY OF BRAWLEY ENGINEERING DEPT. 180 S. WESTERN AVE. BRAWLEY, CA 92227 (760) 344-5800	STANDARD DETAILS RESIDENTIAL FIRE HYDRANT DETAIL	SCALE: NTS
	APPROVED BY CITY ENGINEER:	BRAWLEY, CALIFORNIA OWNER: CITY OF BRAWLEY	DATE: 8/12/05

B-3



**NOTES:**

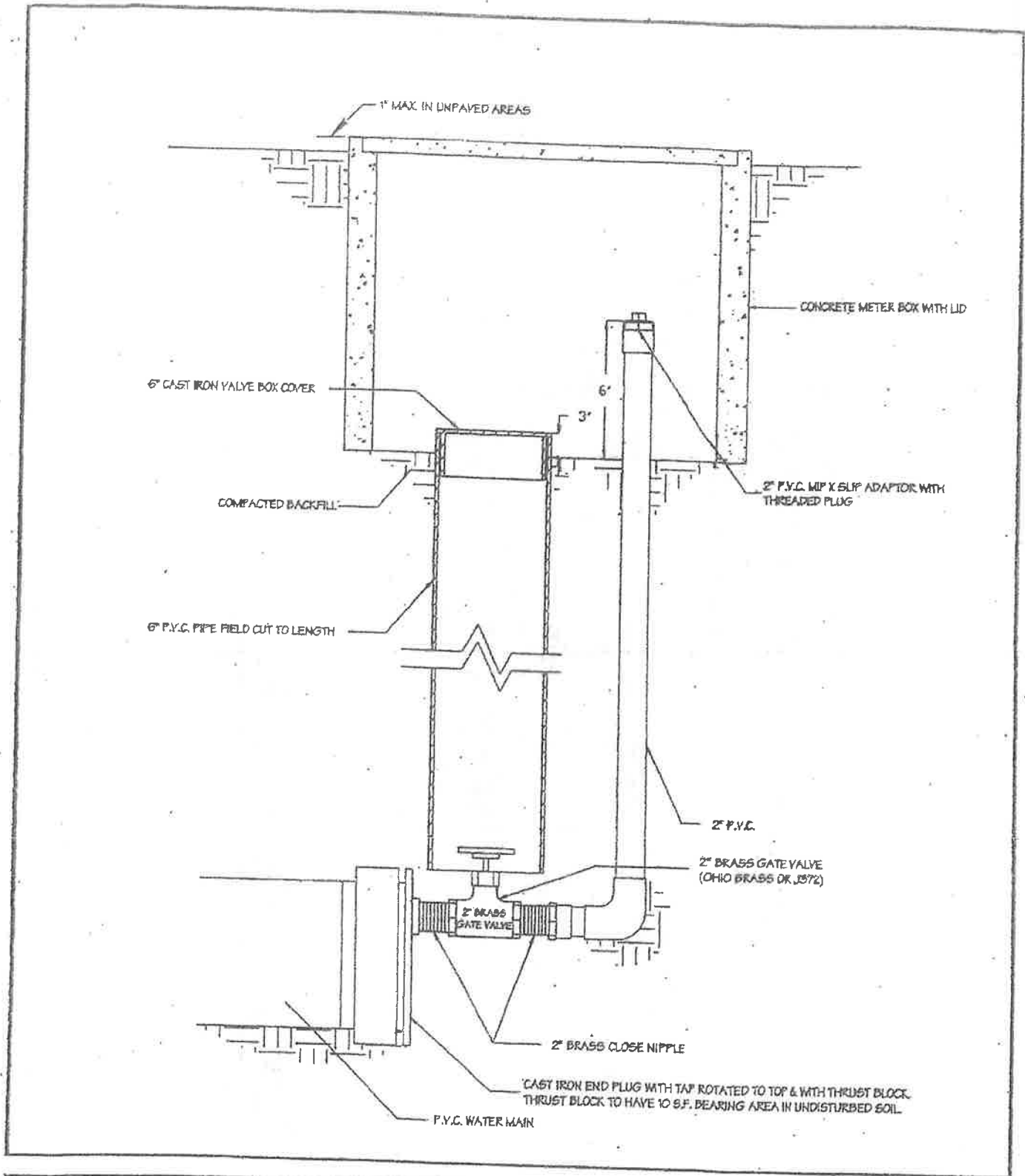
1. ALL FITTINGS TO BE CEMENT MORTAR LINED
2. NO VERTICAL OBJECTS WITHIN 6 FEET OF FIRE-HYDRANT
3. COMMERCIAL 1-4" & 2-2 1/2"-JAMES JONES J-3765 FIRE HYDRANT.
4. ALL TRENCHES SHALL BE BACKFILLED WITH SAND AND COMPACTED TO 95%.
5. C-900 CLASS 150 P.V.C. DR18 PIPE FOR THE VERTICAL PIECE ON TOP OF THE VALVE.



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APPROVED BY CITY ENGINEER:

STANDARD DETAILS	SCALE:	NTS
COMMERCIAL FIRE HYDRANT DETAIL		B-3B
BRAWLEY, CALIFORNIA		DATE: 10/5/04
OWNER: CITY OF BRAWLEY		BY: A.C.



CITY OF BRAWLEY  
 ENGINEERING DEPT.  
 180 S. WESTERN AVE.  
 BRAWLEY, CA 92227  
 (760) 344-5800

STANDARD DETAILS

SCALE: NTS

BLOW OFF

B-4

BRAWLEY, CALIFORNIA

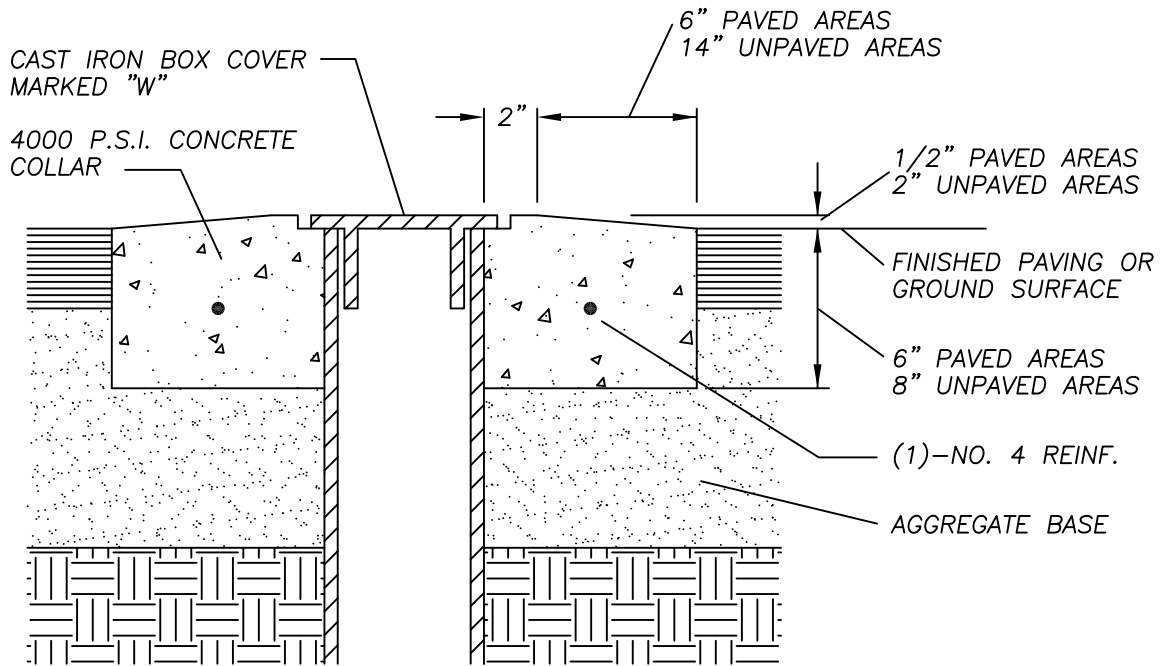
DATE  
8/19/03

BY  
A.C.

OWNER  
CITY OF BRAWLEY

JOB  
NO.





NOT TO SCALE

TYPICAL VALVE BOX  
COLLAR DETAIL



CITY OF BRAWLEY  
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STANDARD DETAILS

SCALE: NTS

VALVE BOX COLLAR

B-5

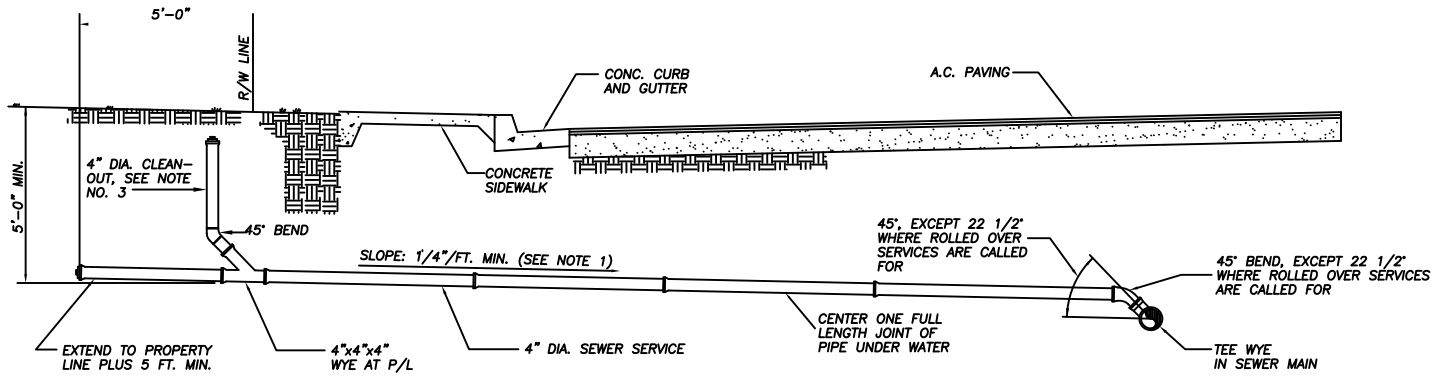
BRAWLEY, CALIFORNIA

DATE  
8/11/03

BY  
A.C.

OWNER  
CITY OF BRAWLEY

JOB  
No.



NOTES:

1.  $\frac{1}{8}$ " / FT. ALLOWED TO MEET MINIMUM DEPTH AT PROPERTY LINE OR WATER LINE CLEARANCE REQUIREMENTS.
2. ALL TRENCH BACKFILL TO BE COMPACTED 90% MINIMUM AND RANDOMLY TESTED AT 1 TEST EVERY 3 SERVICES.
3. EXTEND 4" DIA. CLEAN-OUT WITH STOPPER TO WITHIN 12" OF GROUND SURFACE.



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STANDARD DETAIL

SCALE: NTS

NEW SEWER SERVICE

C-6

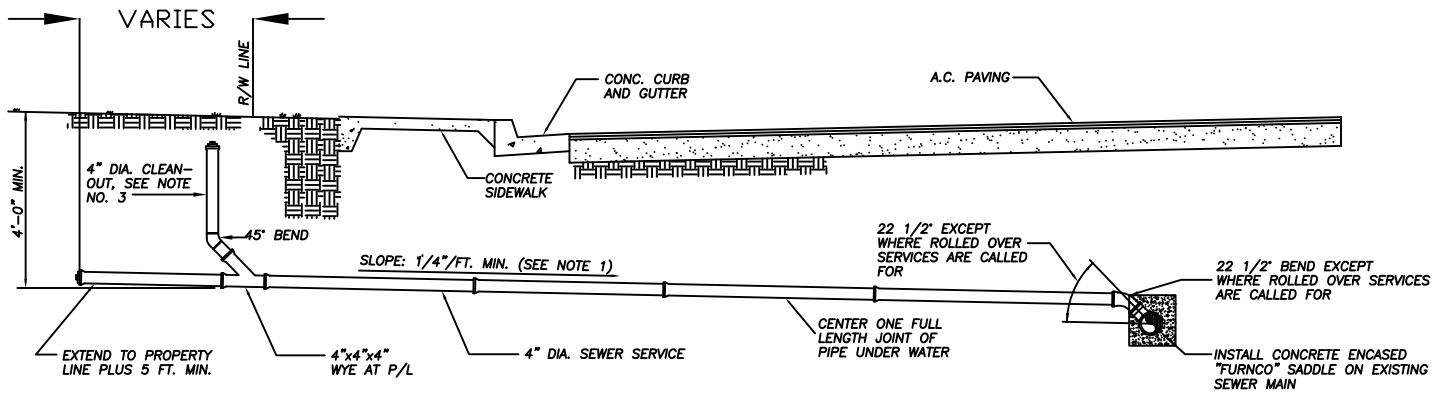
BRAWLEY, CALIFORNIA

DATE  
7/12/02

BY  
A.C.

OWNER  
CITY OF BRAWLEY

JOB  
No.



NOTES:

1.  $\frac{1}{8}$ " / FT. ALLOWED TO MEET MINIMUM DEPTH AT PROPERTY LINE OR WATER LINE CLEARANCE REQUIREMENTS.
2. ALL TRENCH BACKFILL TO BE COMPACTED 90% MINIMUM AND RANDOMLY TESTED OR POUR 2-SACK SLURRY TO GRADE AND PATCH BACK TRENCH ZONE WITH "HOTMIX" ASPHALT CONCRETE TO MATCH EXISTING.
3. EXTEND 4" DIA. CLEAN-OUT WITH STOPPER TO WITHIN 12" OF GROUND SURFACE.



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STANDARD DETAIL

SCALE: NTS

NEW SEWER TAP AND SERVICE

C-6  
 B

BRAWLEY, CALIFORNIA

DATE  
 7/30/03

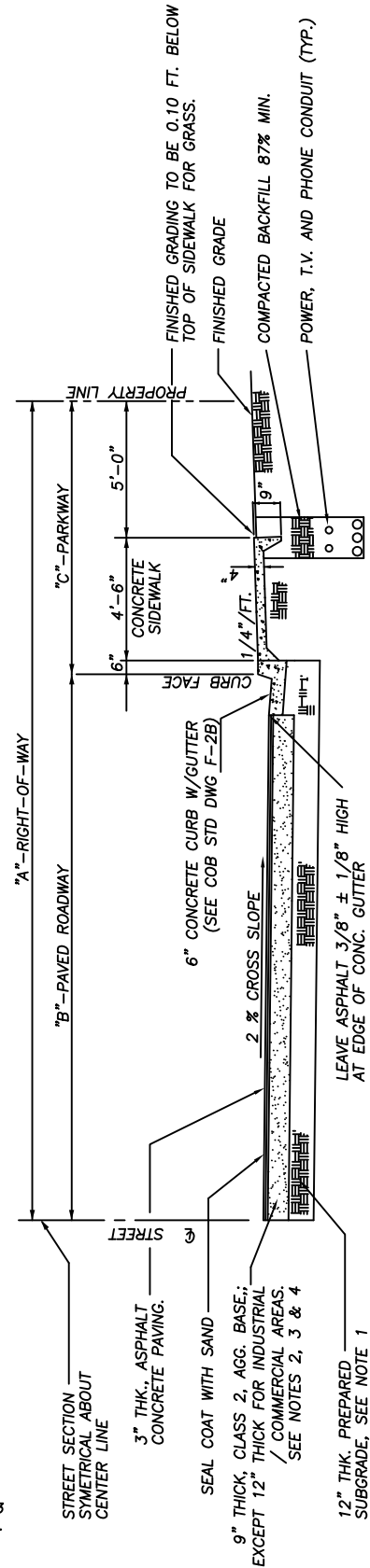
BY  
 A.C.

OWNER  
 CITY OF BRAWLEY


JOB  
 No.

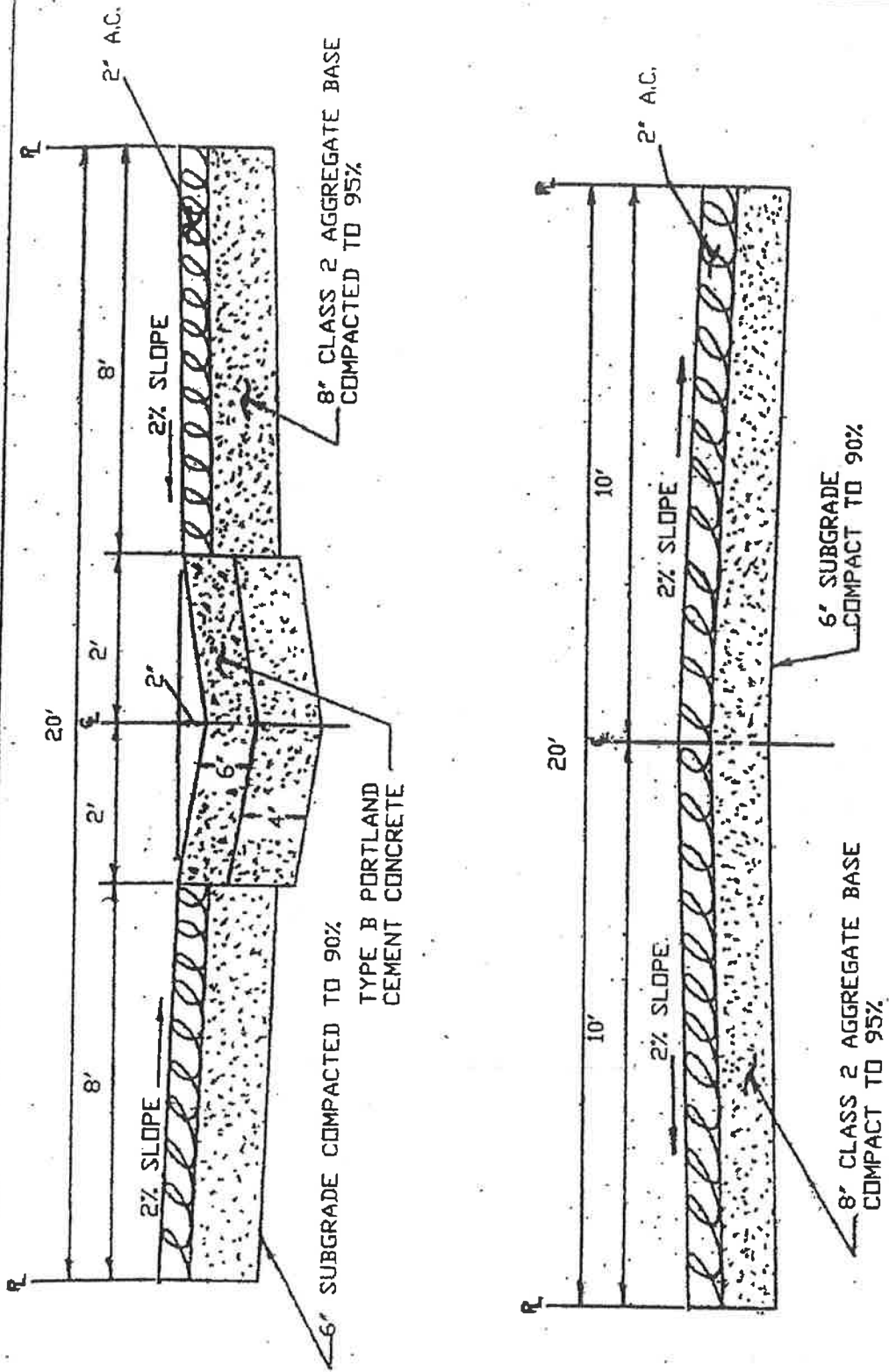
TABLE OF HALF-STREET WIDTH CHARACTERISTICS

	"A"	"B"	"C"
RESIDENTIAL	30'-0"	20'-0"	10'-0"
RESIDENTIAL / INDUSTRIAL	40'-0"	25'-0"	15'-0"
INDUSTRIAL	50'-0"	30'-0"	20'-0"



- NOTE:
1. SUBGRADE COMPACTED TO 90% MIN. COMPACTION, AND COMPLY WITH 2003 GREENBOOK SEC. 301-1.2 PREPARATION INCLUDES SCARIFY AND RE-COMPACT.
  2. CLASS 2 BASE COMPACTED TO 95% MIN. COMPACTION, AND COMPLY WITH 2003 GREEN BOOK SEC. 301-2.3
  3. RESIDENTIAL AND LIGHT INDUSTRIAL 3" THICK ASPHALT CONCRETE PAVING, WITH 9" THICK OF CLASS 2 BASE.
  4. INDUSTRIAL AND COMMERCIAL 3" THICK ASPHALT CONCRETE PAVING, WITH 12" THICK OF CLASS 2 BASE.

 <p>CITY OF BRAWLEY ENGINEERING DEPT. 180 S. WESTERN AVE. BRAWLEY, CA 92227 (760) 344-5800</p>	STANDARD DETAILS	SCALE: NTS	E-1
	HALF STREET DETAIL		
	BRAWLEY, CALIFORNIA	DATE: 10/5/04	BY: A.C.
	APPROVED BY CITY ENGINEER:	OWNER: CITY OF BRAWLEY	JOB NO.



NOTE: 1) THESE CROSS SECTION MAY BE USED ONLY WITH THE APPROVAL OF THE CITY ENGINEER.

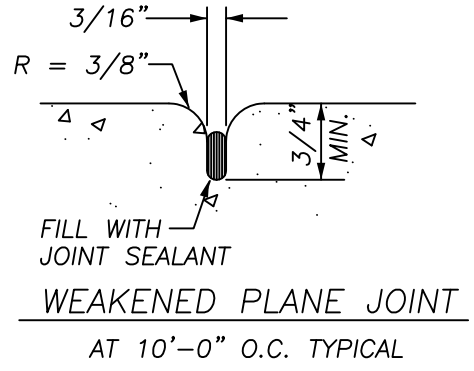
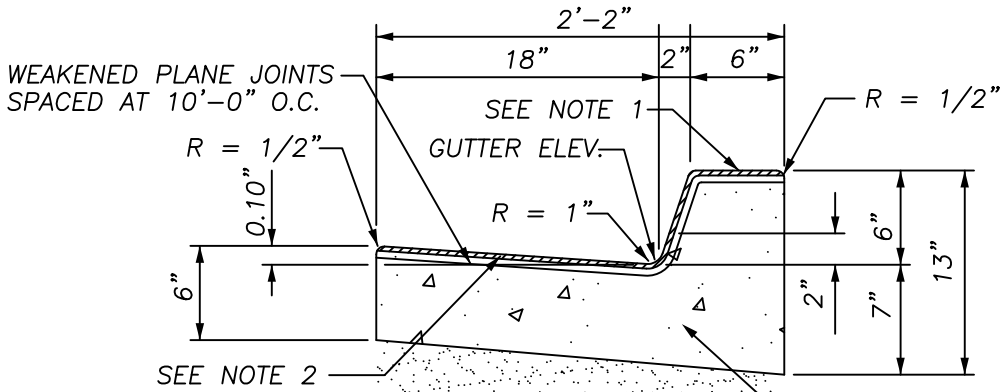
LIGHT TRAFFIC ALLEY CROSS SECTION (2/8)

CITY OF BRAWLEY

STANDARD DETAIL

DRAWN BY	A.C.	CHECKED BY	Y.A.T.	REVISED BY	
DATE	11-19-2001	DATE	12-24-01	DATE	

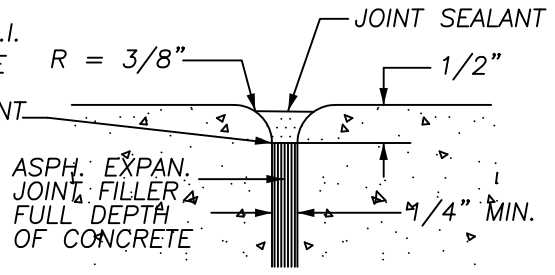
E-2



6" OF AGGREGATE BASE AND SUBGRADE PREPARATION UNDER CURB AND GUTTER.

4500 P.S.I. CONCRETE

CUT EXPAN. JOINT FILLER & SEAL




EXPANSION JOINT

AT 40'-0" O.C. TYPICAL AND AT ALL STRUCTURES, DRIVEWAYS AND RETURNS

NOTES:

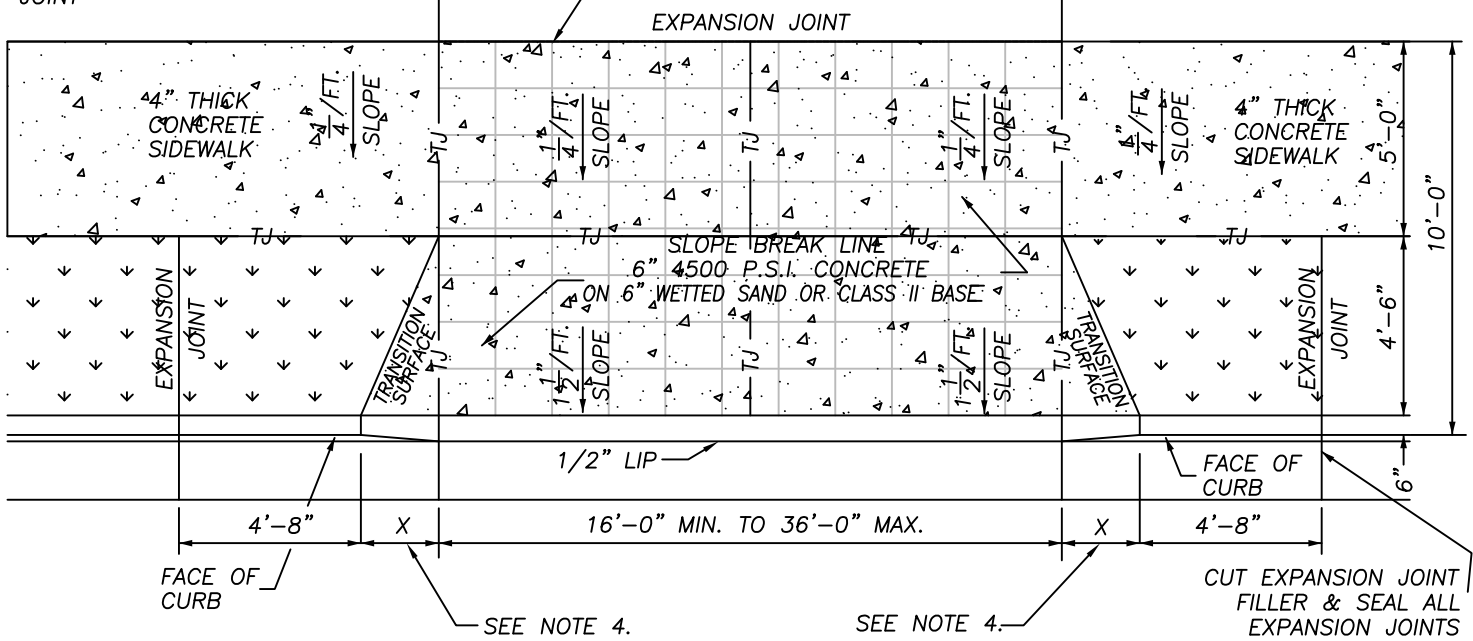
1. PLACE "S" (STAMPED), AND "G" (CHIPPED) IN TOP OF CURB FOR SHOWING THE RESPECTIVE LOCATION OF SEWER AND GAS SERVICES. "W" (STAMPED)- WATER SERVICE
2. EXTEND JOINT SEALANT ACROSS GUTTER AND UP CURB FACE, ALL JOINTS.
3. SUBGRADE FOR CURB SHALL BE 90% MIN. COMPACTED.

 <p>CITY OF BRAWLEY ENGINEERING DEPT. 180 S. WESTERN AVE. BRAWLEY, CA 92227 (760) 344-5800</p>	STANDARD DETAILS	SCALE: NTS	F-2
	CURB & GUTTER DETAIL		B
	BRAWLEY, CALIFORNIA	DATE: 10/5/04	BY: A.C.
	APPROVED BY CITY ENGINEER:	OWNER: CITY OF BRAWLEY	JOB NO.

TJ = 3/4" MIN.  
DEEP TOOLED  
JOINT

MAT OF STEEL  
#3 REBAR AT 18" O.C.  
(SEE NOTE 3)

**DETACHED SIDEWALK**



SEE NOTE 4.

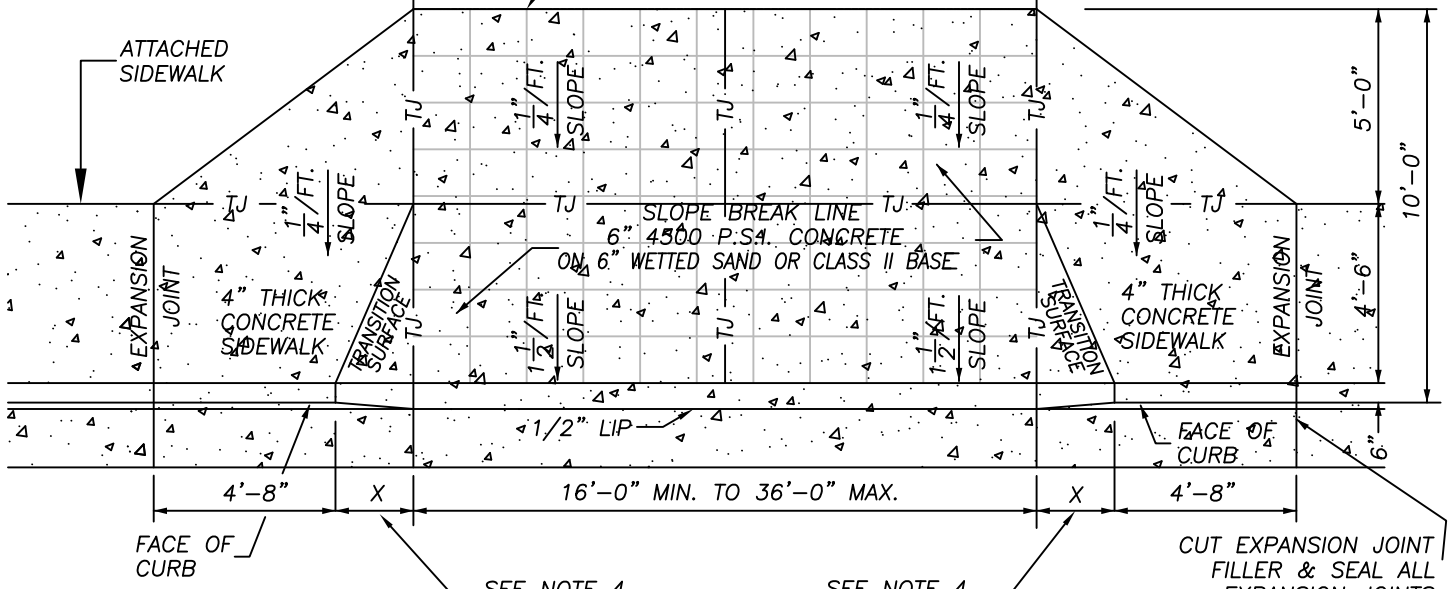
SEE NOTE 4.

CUT EXPANSION JOINT  
FILLER & SEAL ALL  
EXPANSION JOINTS

TJ = 3/4" MIN.  
DEEP TOOLED  
JOINT

MAT OF STEEL  
#3 REBAR AT 18" O.C.  
(SEE NOTE 3)

**ATTACHED SIDEWALK**



SEE NOTE 4.

SEE NOTE 4.

CUT EXPANSION JOINT  
FILLER & SEAL ALL  
EXPANSION JOINTS

**NOTE:**

1. A MINIMUM OF 24 HOURS PRIOR NOTICE TO SCHEDULE AN INSPECTION BY THE CITY OF BRAWLEY PUBLIC WORKS DEPARTMENT IS REQUIRED.
2. THIS DETAIL IS ACCURATE AND COMPATIBLE WITH AREAS THAT HAVE AN ADJACENT ATTACHED SIDEWALK.
3. REBAR IS REQUIRED ON COMMERCIAL DRIVEWAYS AND ALLEY APPROACHES.
4. "X" DISTANCE = 3'-0" FOR 6" CURB FACE  
4'-0" FOR 8" CURB FACE



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(760) 344-5800

APPROVED BY CITY ENGINEER:

STANDARD DETAILS

SCALE:

NTS

COMMERCIAL DRIVEWAY DETAIL

G-2

BRAWLEY, CALIFORNIA

DATE:  
10/5/04

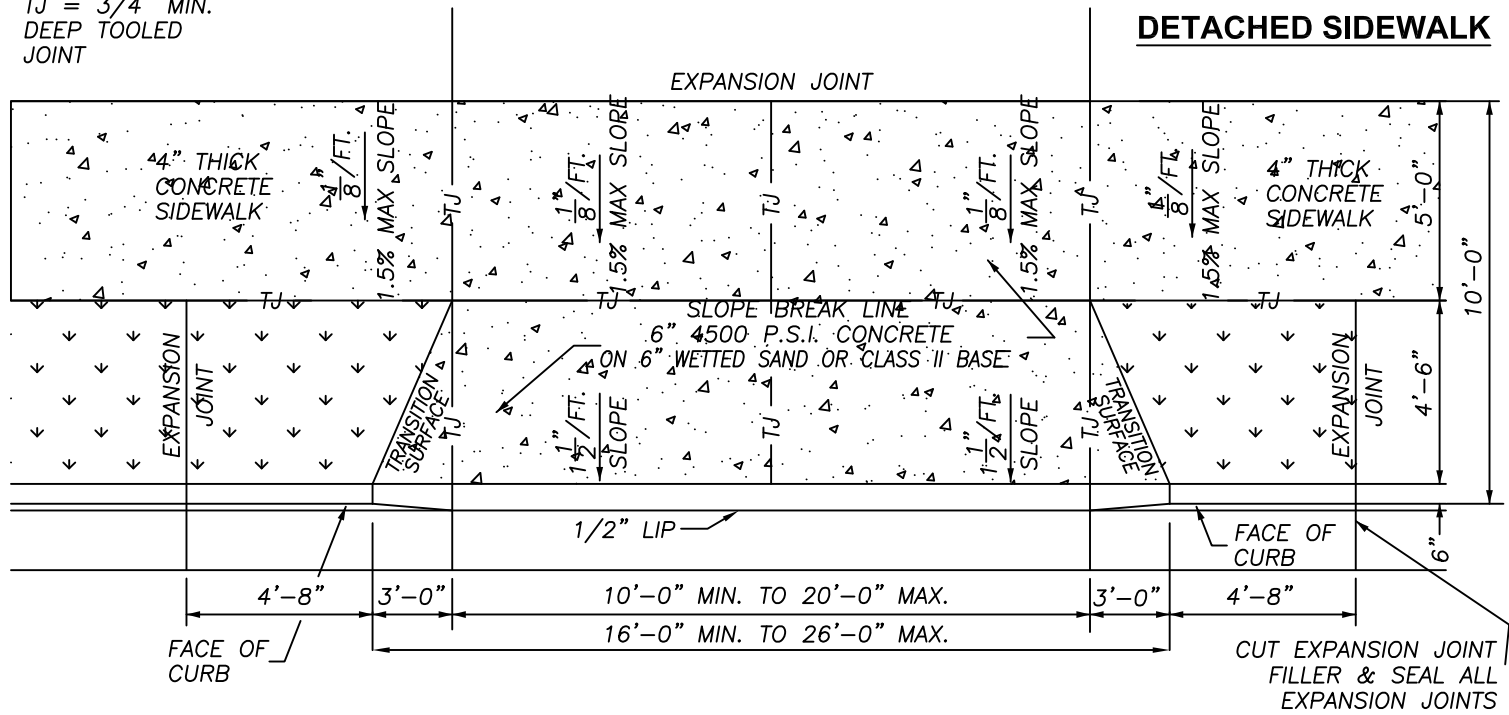
BY:  
A.C.

OWNER: CITY OF BRAWLEY

JOB NO.

TJ = 3/4" MIN.  
DEEP TOOLED  
JOINT

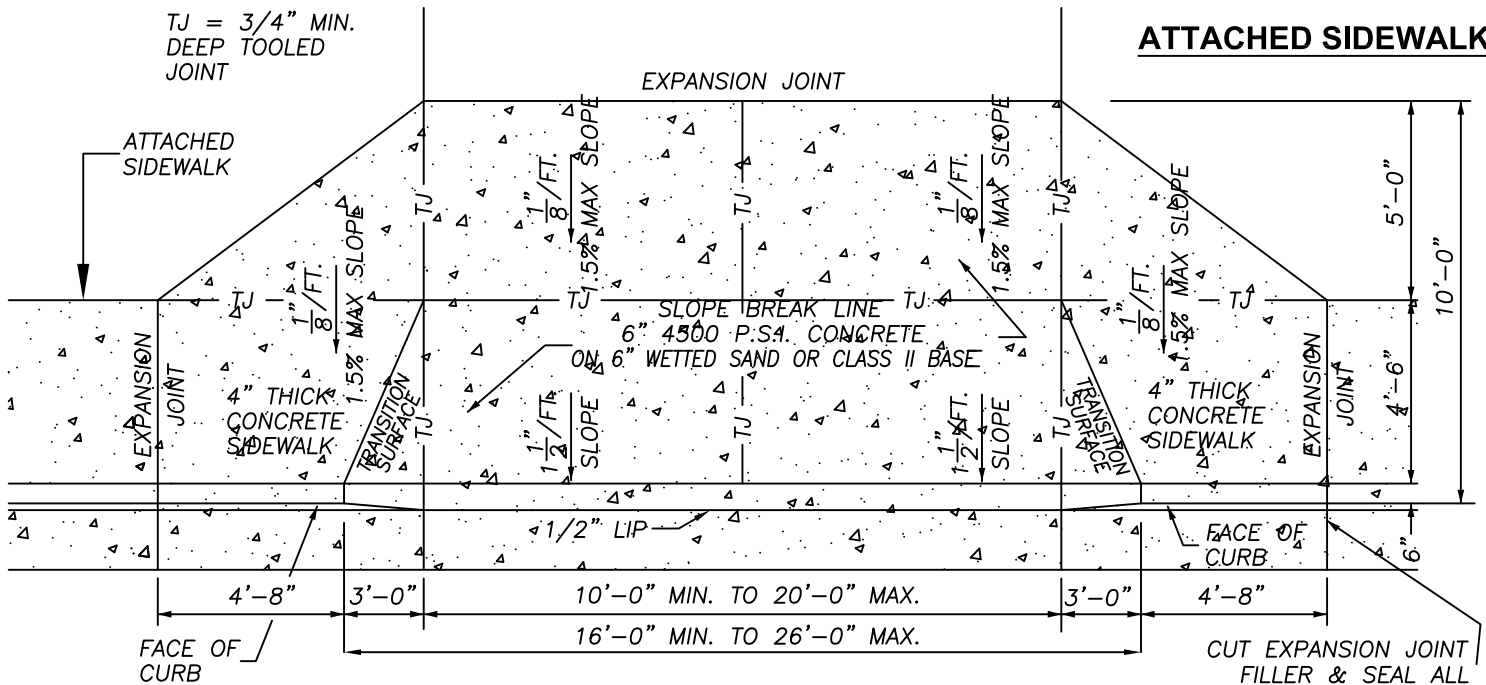
**DETACHED SIDEWALK**



CUT EXPANSION JOINT  
FILLER & SEAL ALL  
EXPANSION JOINTS

TJ = 3/4" MIN.  
DEEP TOOLED  
JOINT

**ATTACHED SIDEWALK**



CUT EXPANSION JOINT  
FILLER & SEAL ALL  
EXPANSION JOINTS

**NOTE:**

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3. 1/8" PER FOOT / 1.5% MAX SLOPE FOR SIDEWALK AREA.



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APPROVED BY CITY ENGINEER:

STANDARD DETAILS

SCALE:

NTS

RESIDENTIAL DRIVEWAY DETAIL

G-3

BRAWLEY, CALIFORNIA

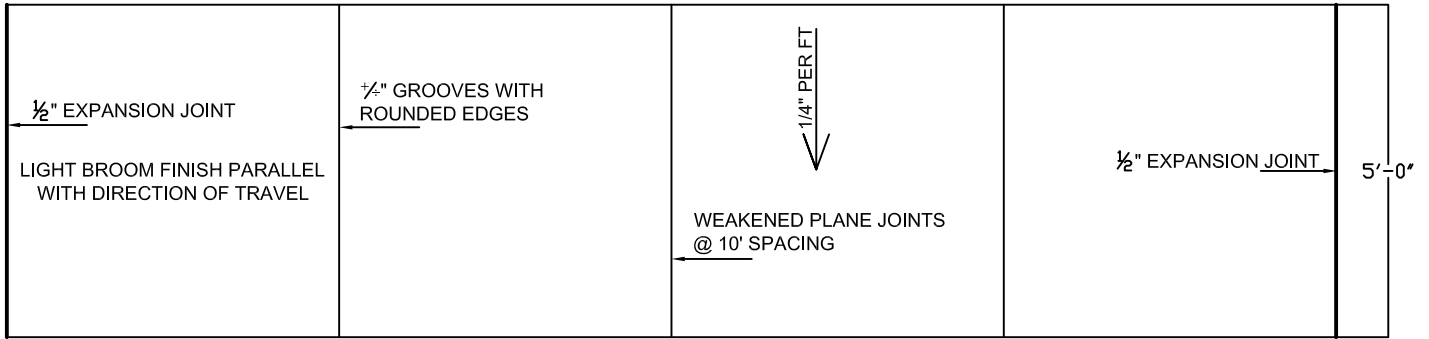
DATE: 10/7/04

BY: A.C.

OWNER: CITY OF BRAWLEY

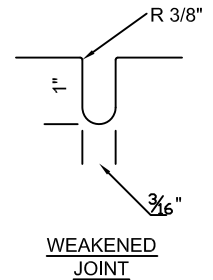
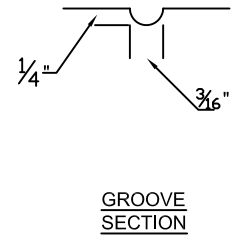
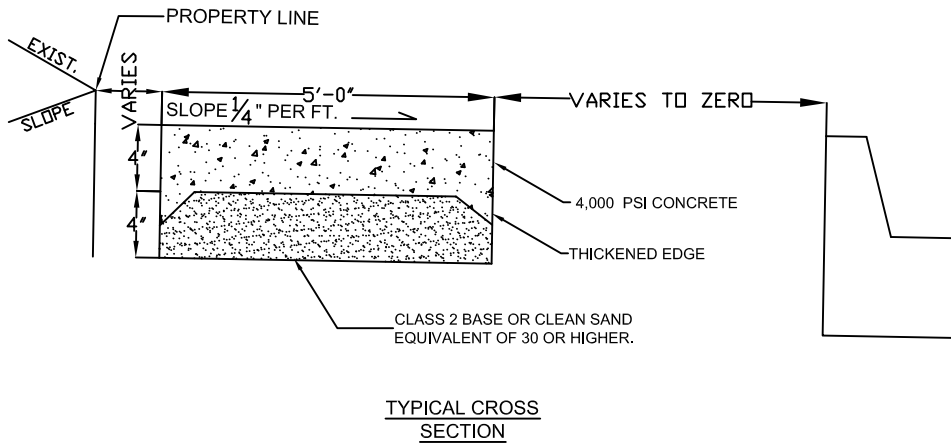
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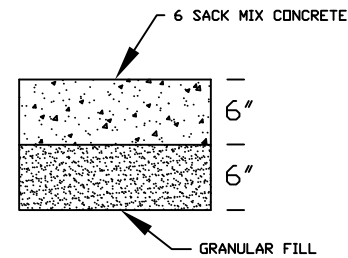
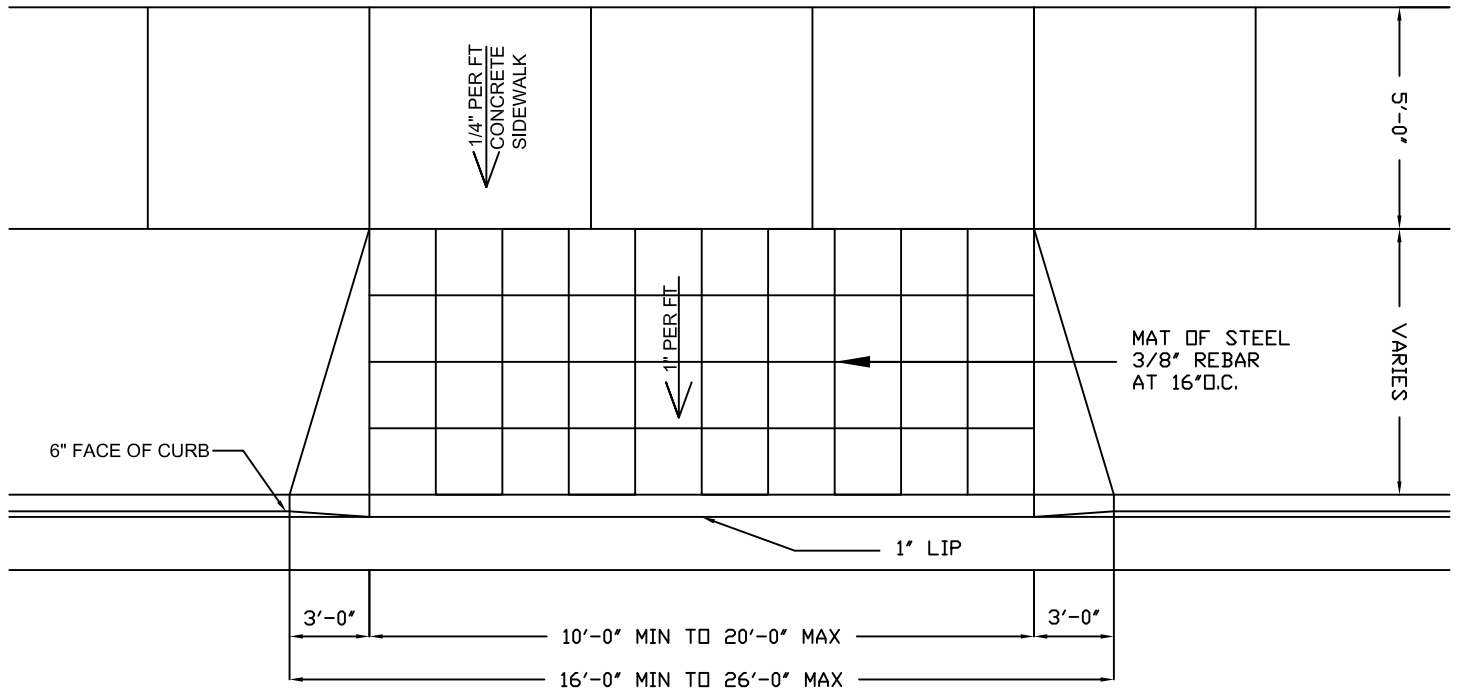


NOTE:

1.  $\frac{1}{2}$ " EXPANSION JOINT @ EACH END OF CURB RETURN AND @ 40'-0" INTERVALS.
2. STANDARD WEAKENED PLANE JOINTS @ 10'-0" INTERVALS.
3. USE CLASS "B" P.C.C.
4. NO TRANSVERSE EXPANSION JOINTS WITHIN LIMITS OF DRIVEWAY.
5. MAY BE POURED AS A MONOLITHIC.
6. P.C.C. FOR THIS WORK SHALL MEET OR EXCEED 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
7.  $\frac{1}{4}$ " PER FT. SLOPE FOR DRAINAGE.
8. ALL EXPANSION JOINTS ARE REQUIRED TO BE CUT DOWN AND CAULKED. AS PER GREENBOOK SECTION 201-3.4.
9. GRADE TO DRAIN TOWARDS STREET.



	CITY OF BRAWLEY ENGINEERING DEPT. 180 S. WESTERN AVE. BRAWLEY, CA 92227 (760) 344-5800	STANDARD DETAILS	SCALE: NTS	G-4	
	SIDEWALK DETAIL				
	BRAWLEY, CALIFORNIA		DATE: 11/4/04		BY: A.C.
	APPROVED BY CITY ENGINEER:		OWNER: CITY OF BRAWLEY		



ALLEY  
APPROACH  
CROSS SECTION  
NTS



CITY OF BRAWLEY  
ENGINEERING DEPT.  
180 S. WESTERN AVE.  
BRAWLEY, CA 92227  
(760) 344-5800

STANDARD DETAILS

SCALE: NTS

ALLEY APPROACH

G-6

BRAWLEY, CALIFORNIA

DATE  
7/11/02

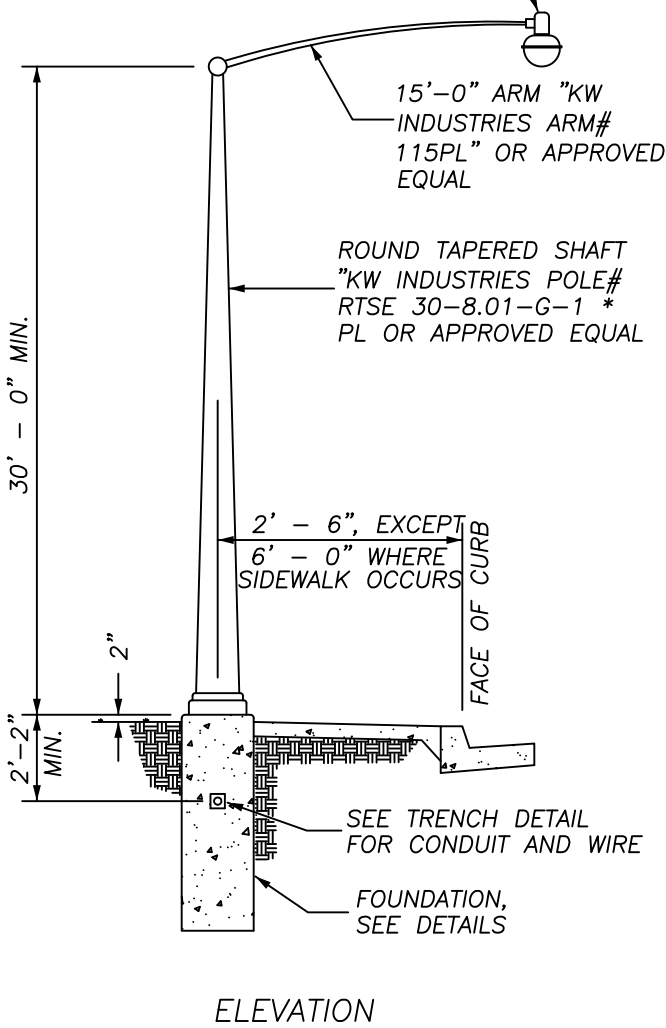
BY  
A.C.

OWNER  
CITY OF BRAWLEY

JOB  
No.

HIGH PRESSURE SODIUM VAPOR LUMINAIRE COMPLETE WITH PHOTO ELECTRIC CELL, 150 W.; EXCEPT, WHERE OTHERWISE INDICATED.

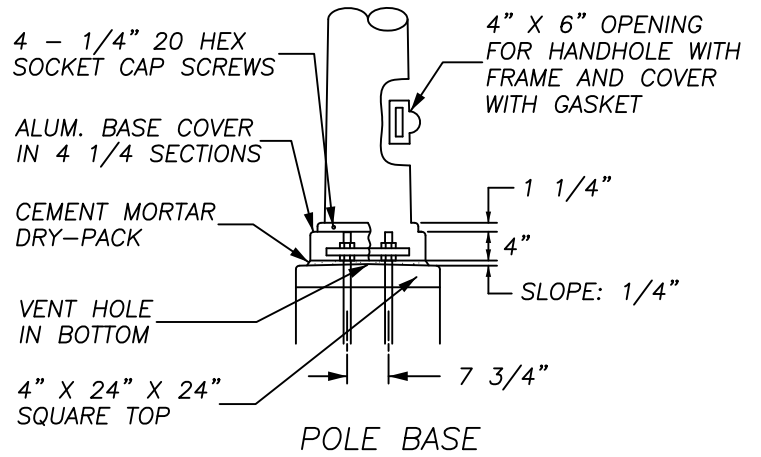
75 W.	NEIGHBORHOOD
100W.	CUL-DE-SAC'S
150W.	INTERSECTIONS



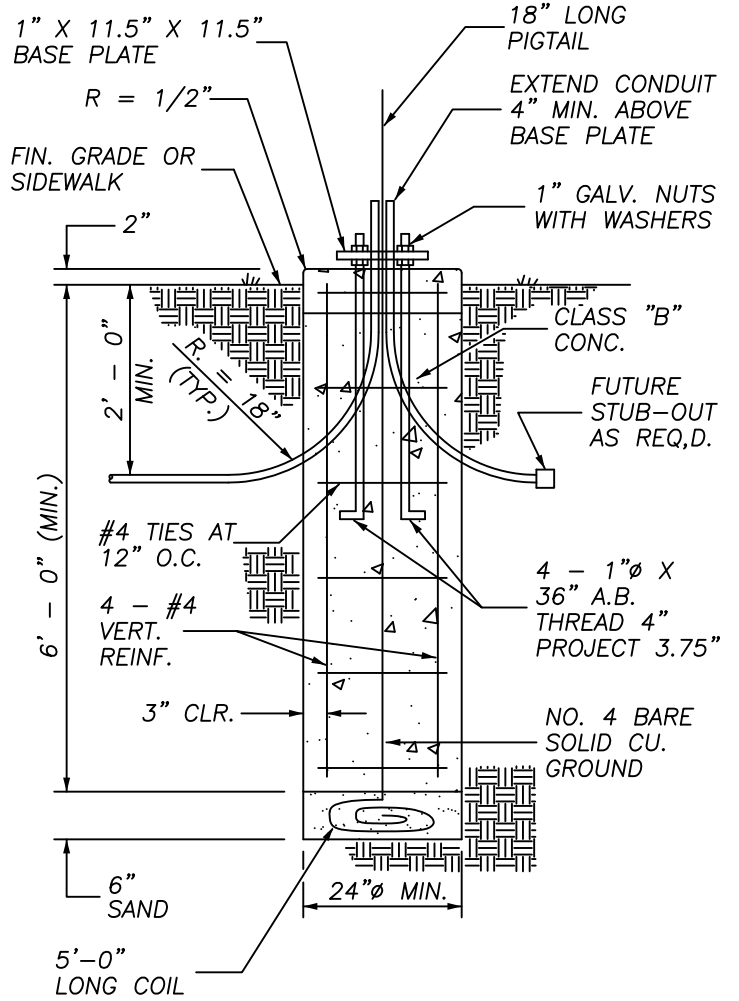
ELEVATION

NOTE:


1. 150 WATT LUMINAIRE AT INTERSECTIONS OR IN FRONT OF INTERSECTIONS AND 75 WATT ELSEWHERE.
2. NO. 4 TIES TO BE 12" SEPARATION FROM TOP AND BOTTOM.
3. SIDEWALL REBAR TO BE 3" MIN FROM EXCAVATION WALLS AND BOTTOM.



POLE BASE



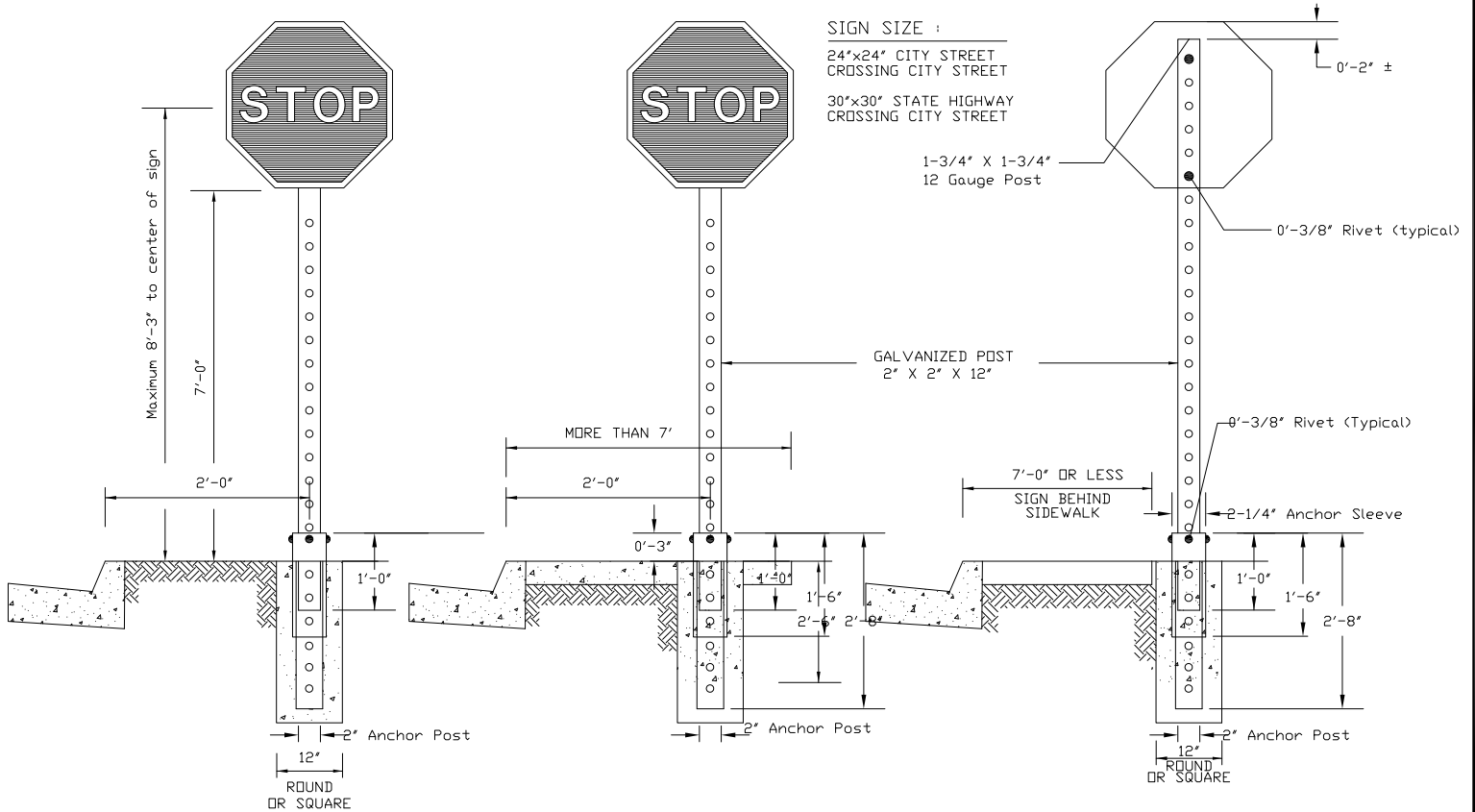
FOUNDATION



CITY OF BRAWLEY  
ENGINEERING DEPT.  
180 S. WESTERN AVE.  
BRAWLEY, CA 92227  
(760) 344-5800

APPROVED BY CITY ENGINEER:

STANDARD DETAILS	SCALE: NTS
STREET LIGHT DETAIL	
BRAWLEY, CALIFORNIA	
OWNER: CITY OF BRAWLEY	DATE: 10/5/04 BY: A.C.
	JOB NO.



SIGN SIZE :  
 24"x24" CITY STREET  
 CROSSING CITY STREET  
 30"x30" STATE HIGHWAY  
 CROSSING CITY STREET

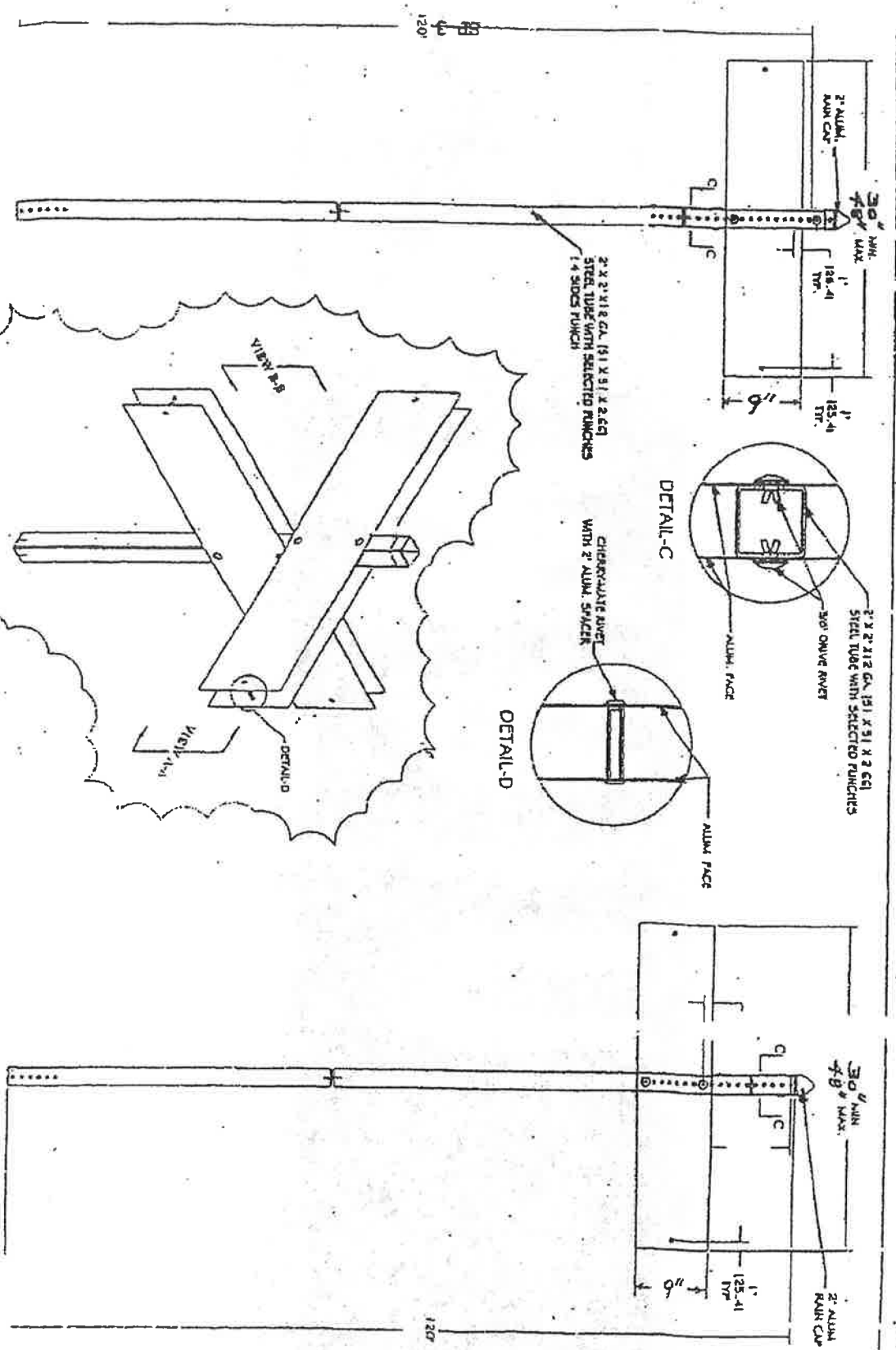
NOTES:

1. STRUCTURAL STEEL TUBING USED FOR POST & SLEEVES SHALL BE GALVANIZED 12 GAUGE COLD ROLLED STEEL, OF THE NOMINAL DIMENSIONS SHOWN HEREON AND MEET THE REQUIREMENTS OF ASTM A446
2. GALVANIZING SHALL BE PER ASTM A525. POSTS & SLEEVES SHALL HAVE 7/16" DIA. HOLES SPACED 1" O.C. ±1/8" & SHALL HAVE NO MORE VARIATION IN STRAIGHTNESS THAN 1/16" IN. 3'. POSTS SHALL BE SQUARE WITHIN ±0.014", HAVE TWIST NO GREATER THAN 0.062" IN 3' AND HAVE CORNER RADII OF 5/32" ±1/64".
3. THE SIGN SHALL BE MOUNTED ON POST IN ACCORDANCE WITH SECTION 56, 'SIGN' OF THE STATE STANDARD SPECIFICATIONS. ALL FASTENING HARDWARE IS TO BE PROVIDED BY THE CONTRACTOR.
4. MAXIMUM SIGN SIZE 5.2 SQ. FT.

CITY OF BRAWLEY  
 ENGINEERING DEPT.  
 180 S. WESTERN AVE.  
 BRAWLEY, CA 92227  
 (760) 344-5800

STANDARD DETAILS	SCALE: NTS	
TRAFFIC REGULATORY SIGNING		H-7
BRAWLEY, CALIFORNIA	DATE: 5/12/05	BY: A.C.
OWNER: CITY OF BRAWLEY	JOB NO.	

APPROVED BY CITY ENGINEER:



H-8

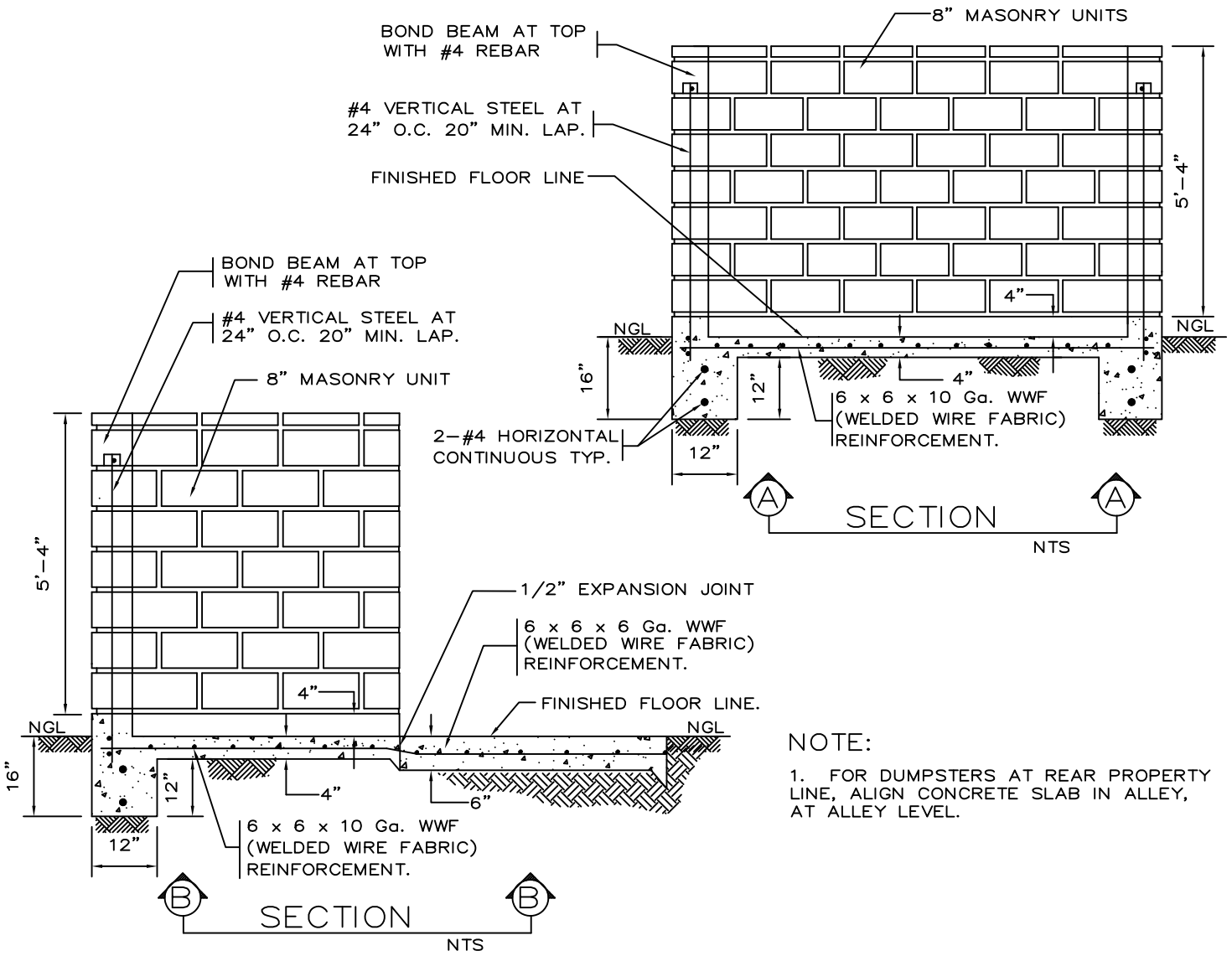
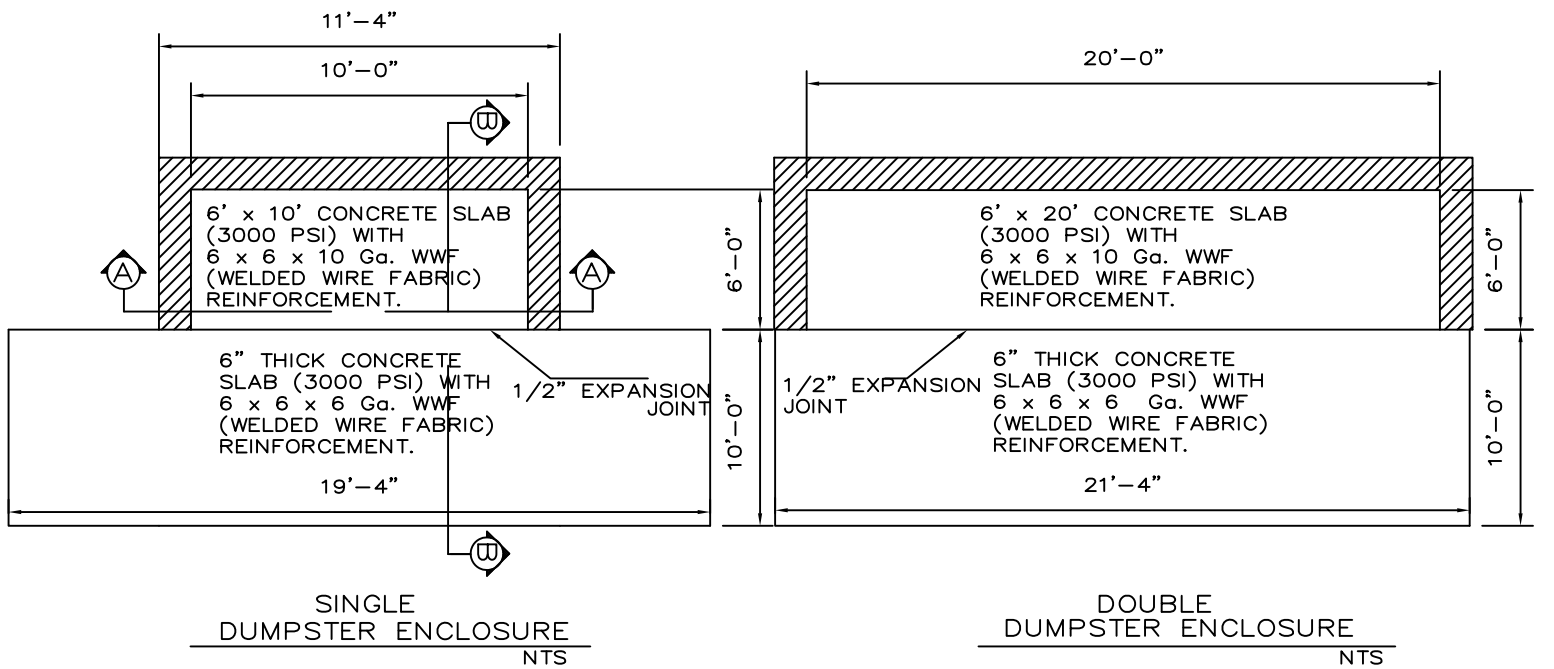
Home of the Cattle Call

**BRAWLEY**



**Main**  
**ST**  
**400**

H-9



**NOTE:**  
1. FOR DUMPSTERS AT REAR PROPERTY LINE, ALIGN CONCRETE SLAB IN ALLEY, AT ALLEY LEVEL.

**DUMPSTER ENCLOSURE**

City of Brawley		STANDARD DETAIL		APPROVED CITY ENGINEER	
DRAWN BY	AC	CHK'D BY	YAT	REVISED BY	
DATE	10/08/02	DATE	10/08/02	DATE	