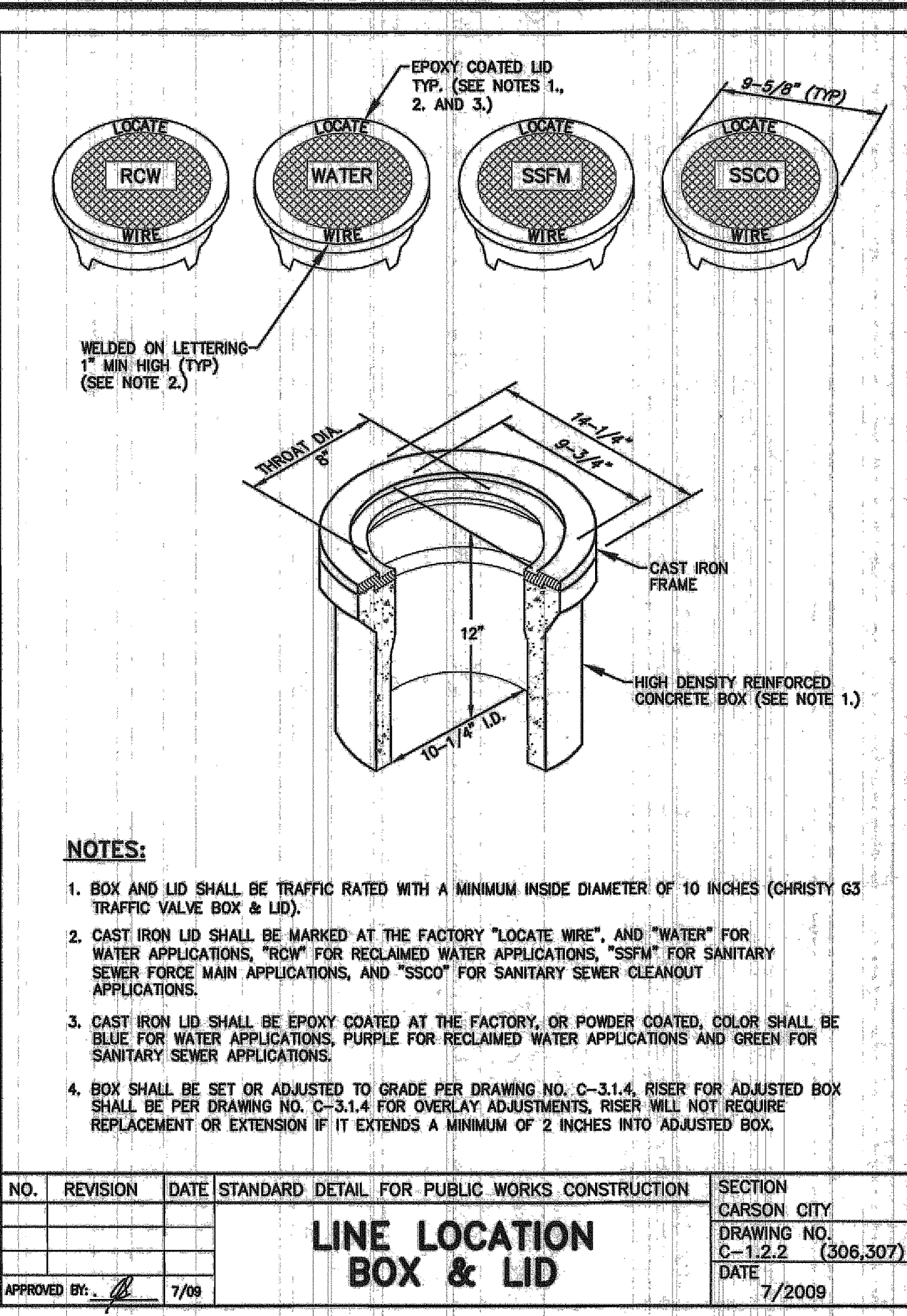
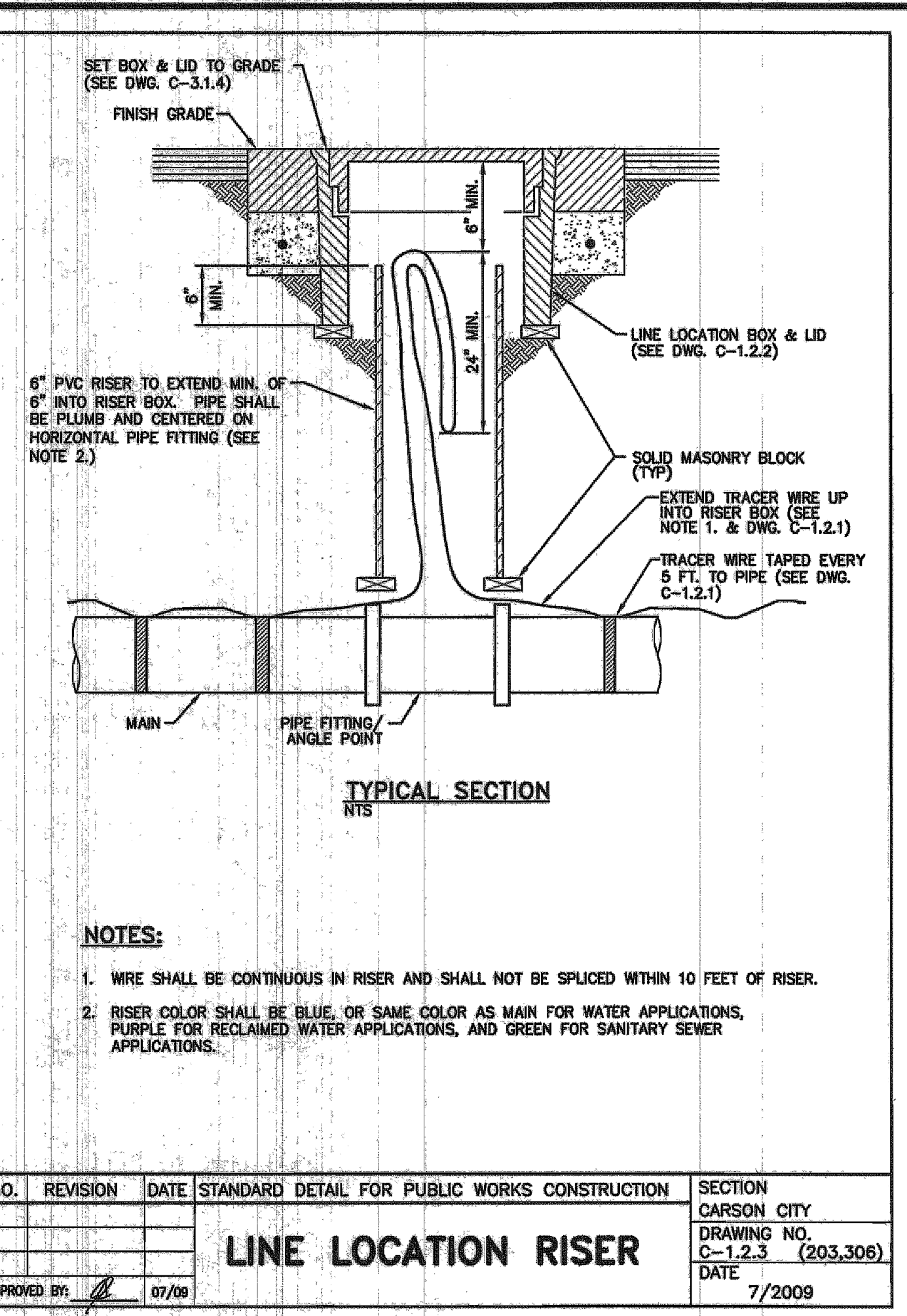


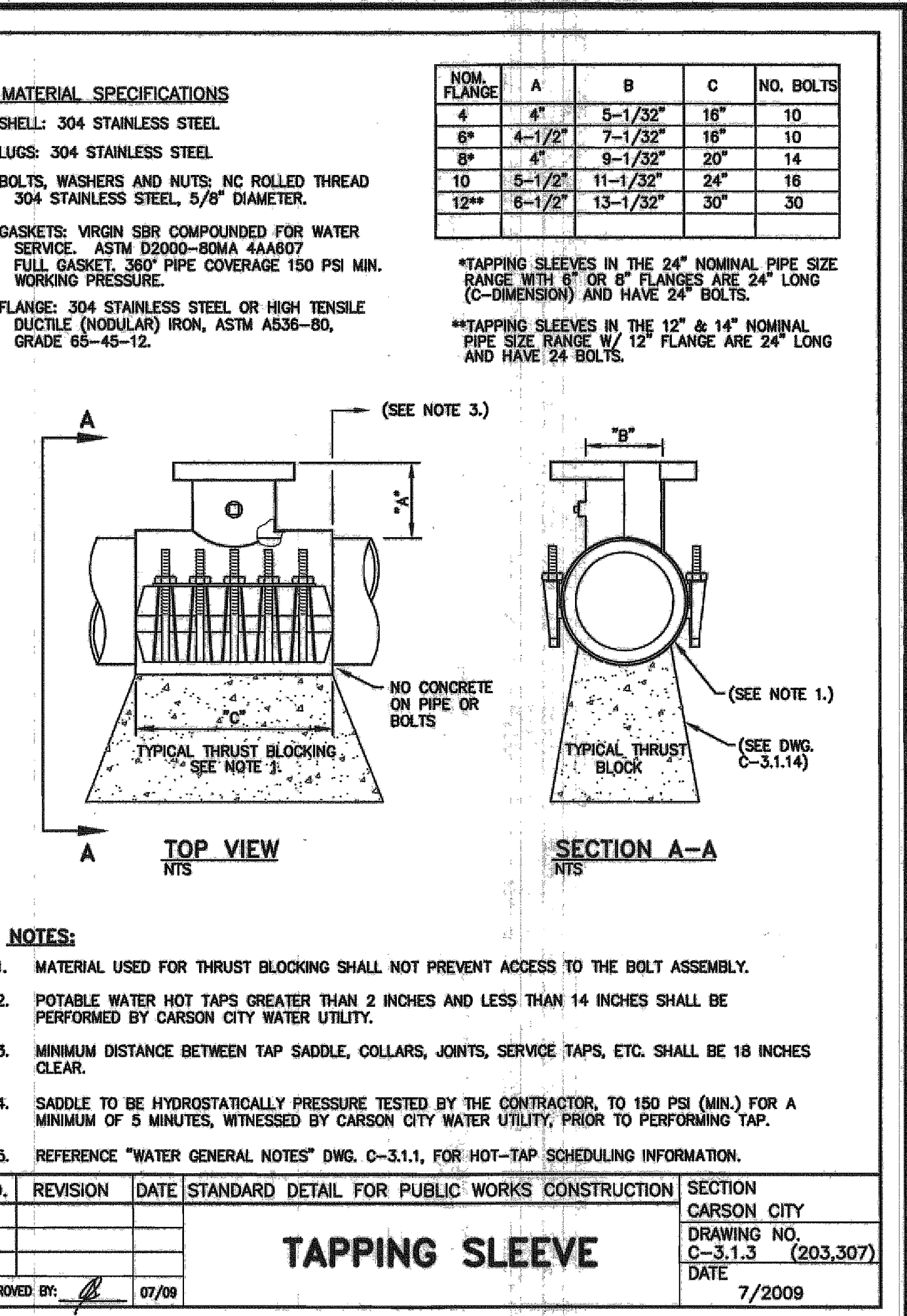
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			TRENCH EXCAVATION AND BACKFILL - MODIFIED	DRAWING NO. C-1.2.1 (305)
			APPROVED BY: 7/09	DATE: 7/2009



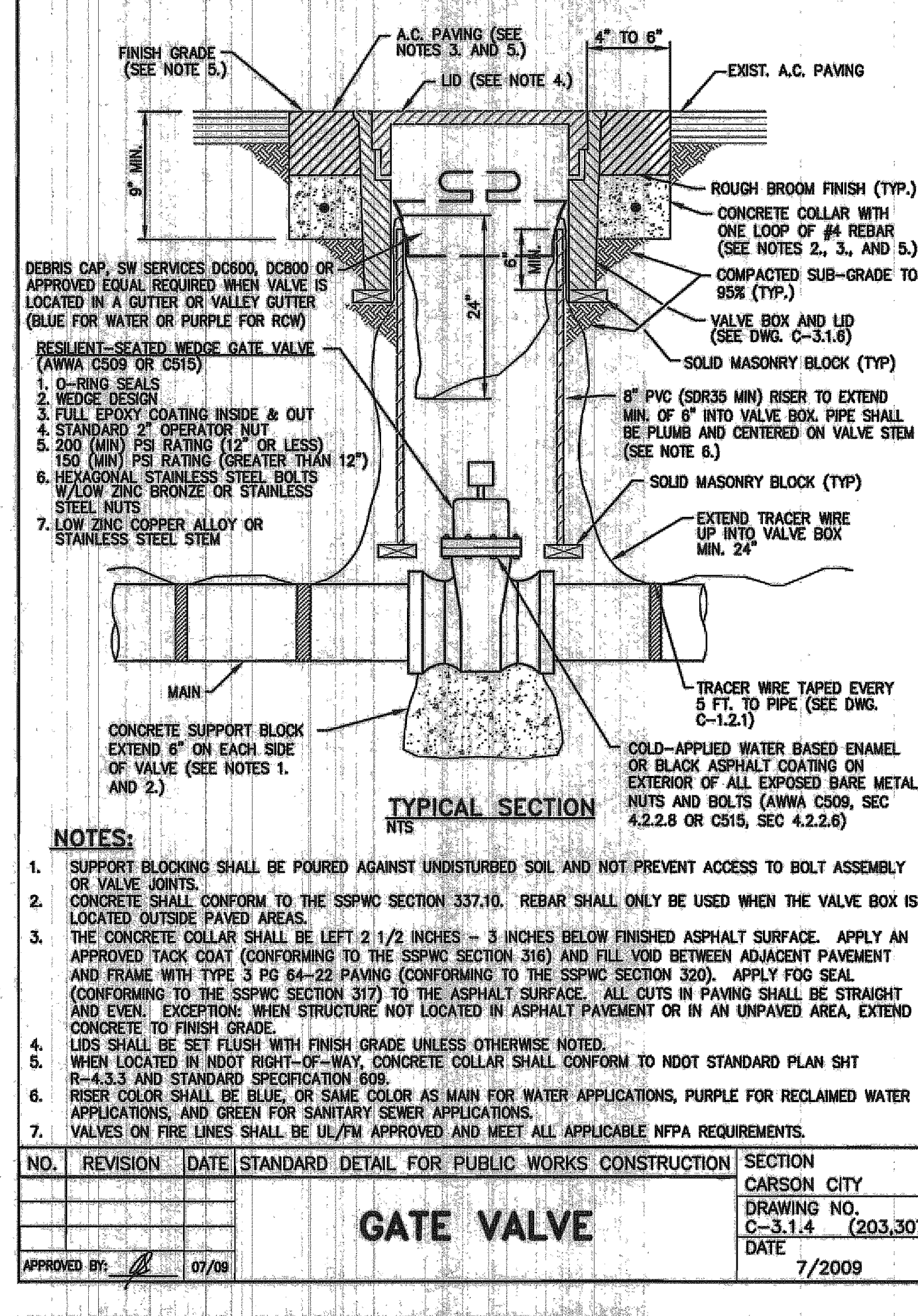
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			LINE LOCATION BOX & LID	DRAWING NO. C-1.2.2 (306,307)
			APPROVED BY: 7/09	DATE: 7/2009



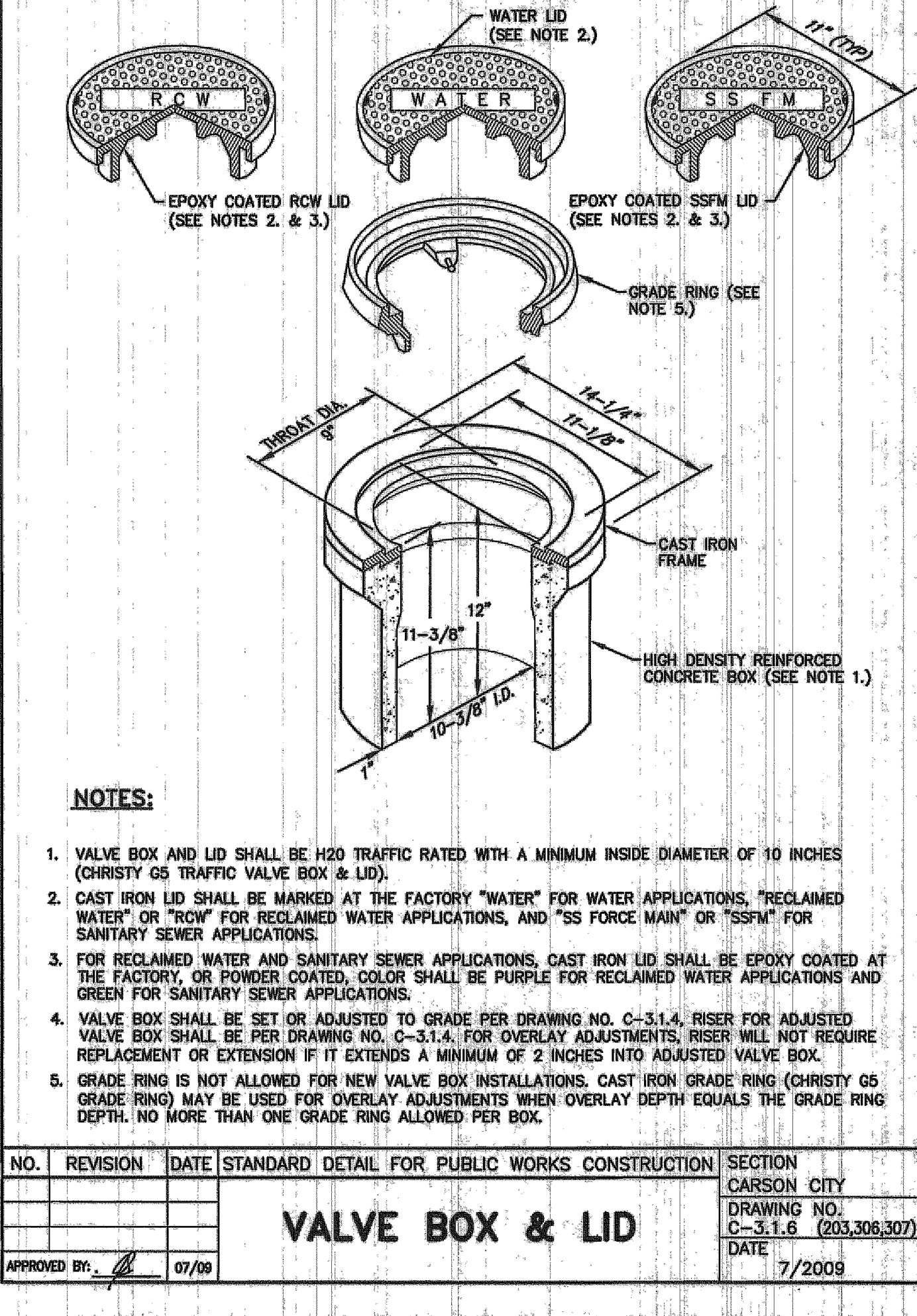
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			LINE LOCATION RISER	DRAWING NO. C-1.2.3 (203,306)
			APPROVED BY: 07/09	DATE: 7/2009



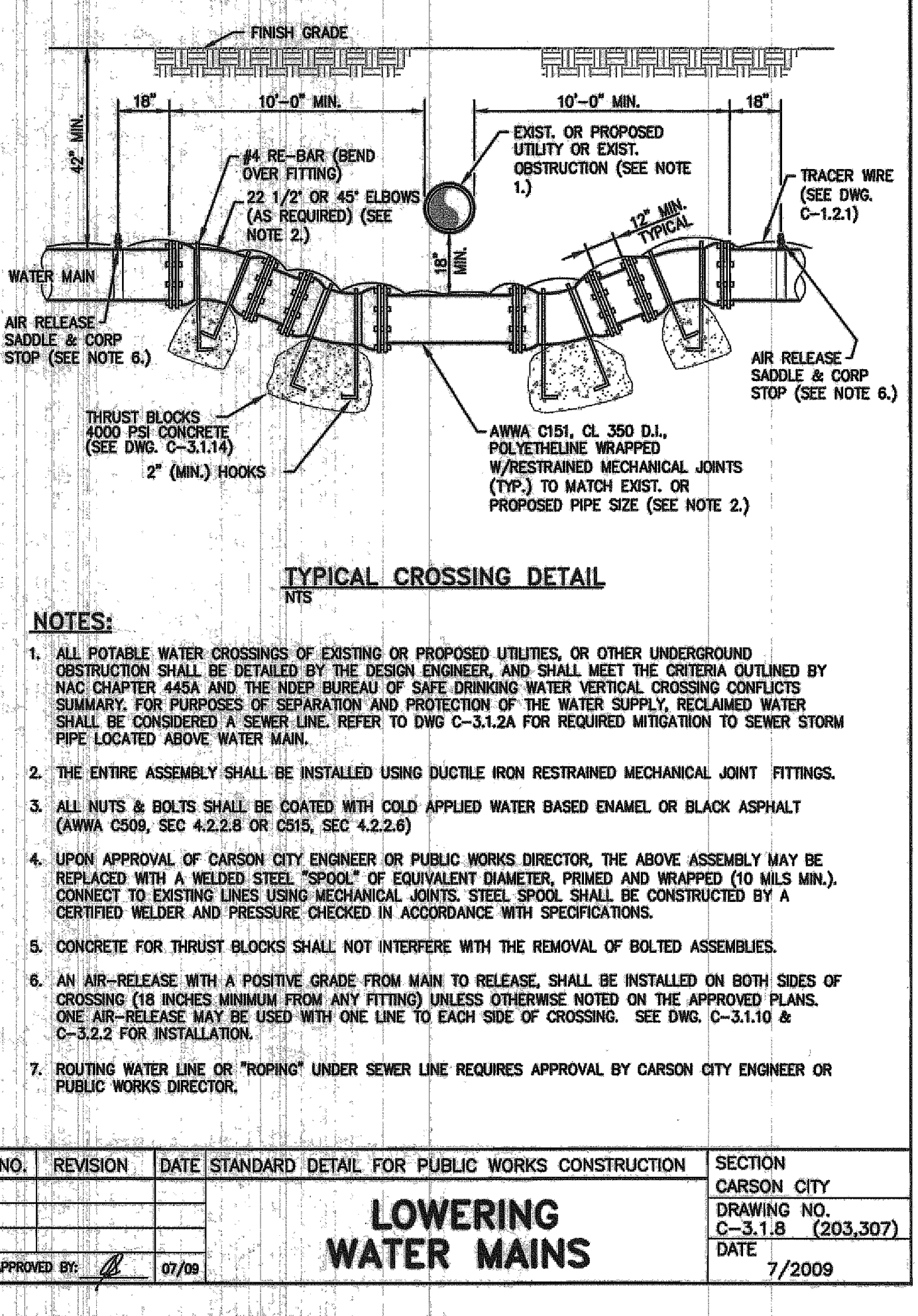
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			TAPPING SLEEVE	DRAWING NO. C-3.1.3 (203,307)
			APPROVED BY: 07/09	DATE: 7/2009



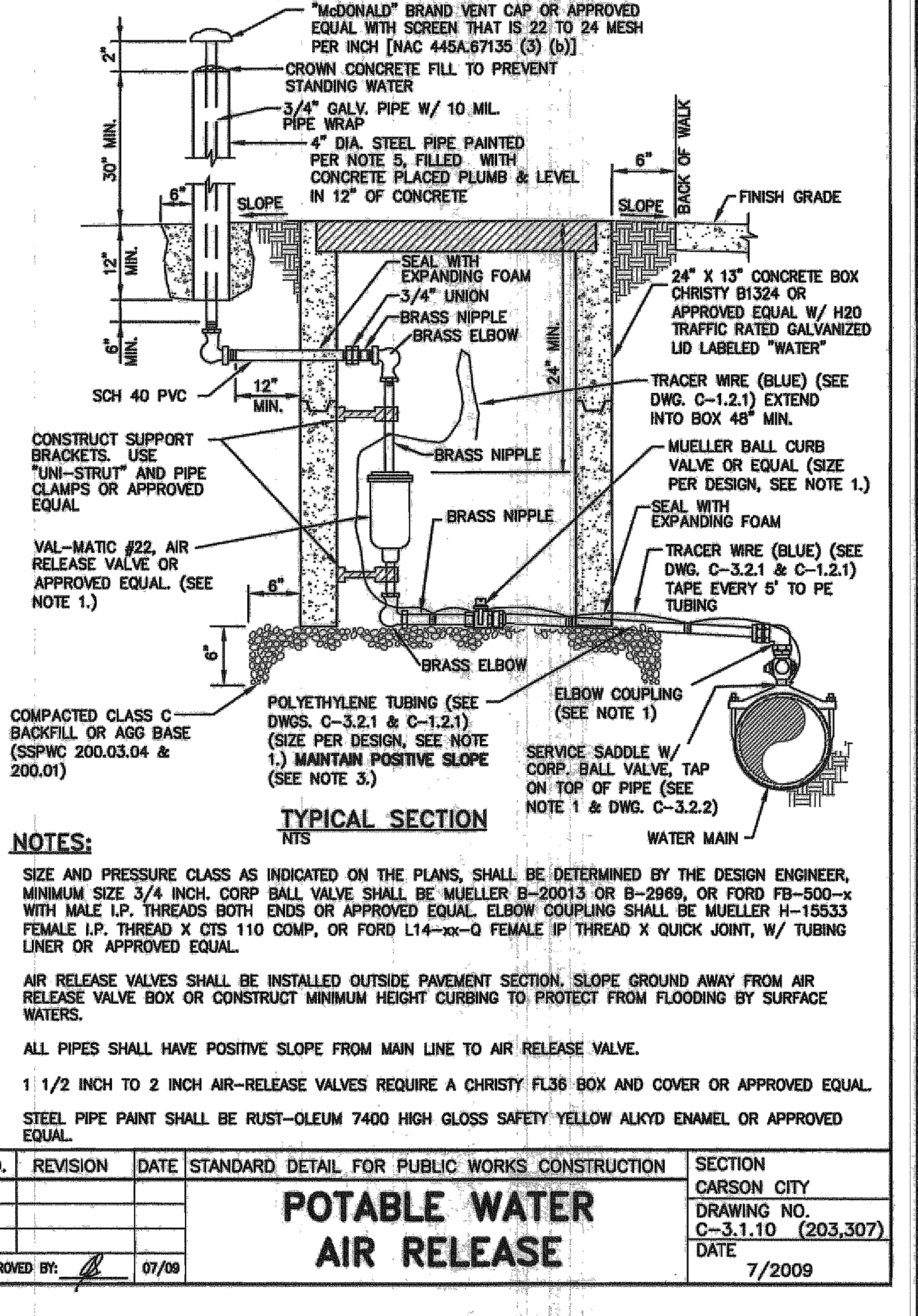
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			GATE VALVE	DRAWING NO. C-3.1.4 (203,307)
			APPROVED BY: 07/09	DATE: 7/2009



NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			VALVE BOX & LID	DRAWING NO. C-3.1.6 (203,308,307)
			APPROVED BY: 07/09	DATE: 7/2009



NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			LOWERING WATER MAINS	DRAWING NO. C-3.1.8 (203,307)
			APPROVED BY: 07/09	DATE: 7/2009



NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			POTABLE WATER AIR RELEASE	DRAWING NO. C-3.1.10 (203,307)
			APPROVED BY: 07/09	DATE: 7/2009

DESIGNED BY: DGR
 DRAWN BY: DGR
 CHECKED BY: TBG
 DWG NO.: 4-0900-000-Phase 2a-1
 SCALE (HORIZ): AS NOTED
 SCALE (VERT): N/A
 PLOT DATE: 3/31/14

CARSON CITY PUBLIC WORKS DEPARTMENT

3505 BUTTI WAY CARSON CITY, NEVADA 89701
 PH: 867-2355 FAX: 867-2112

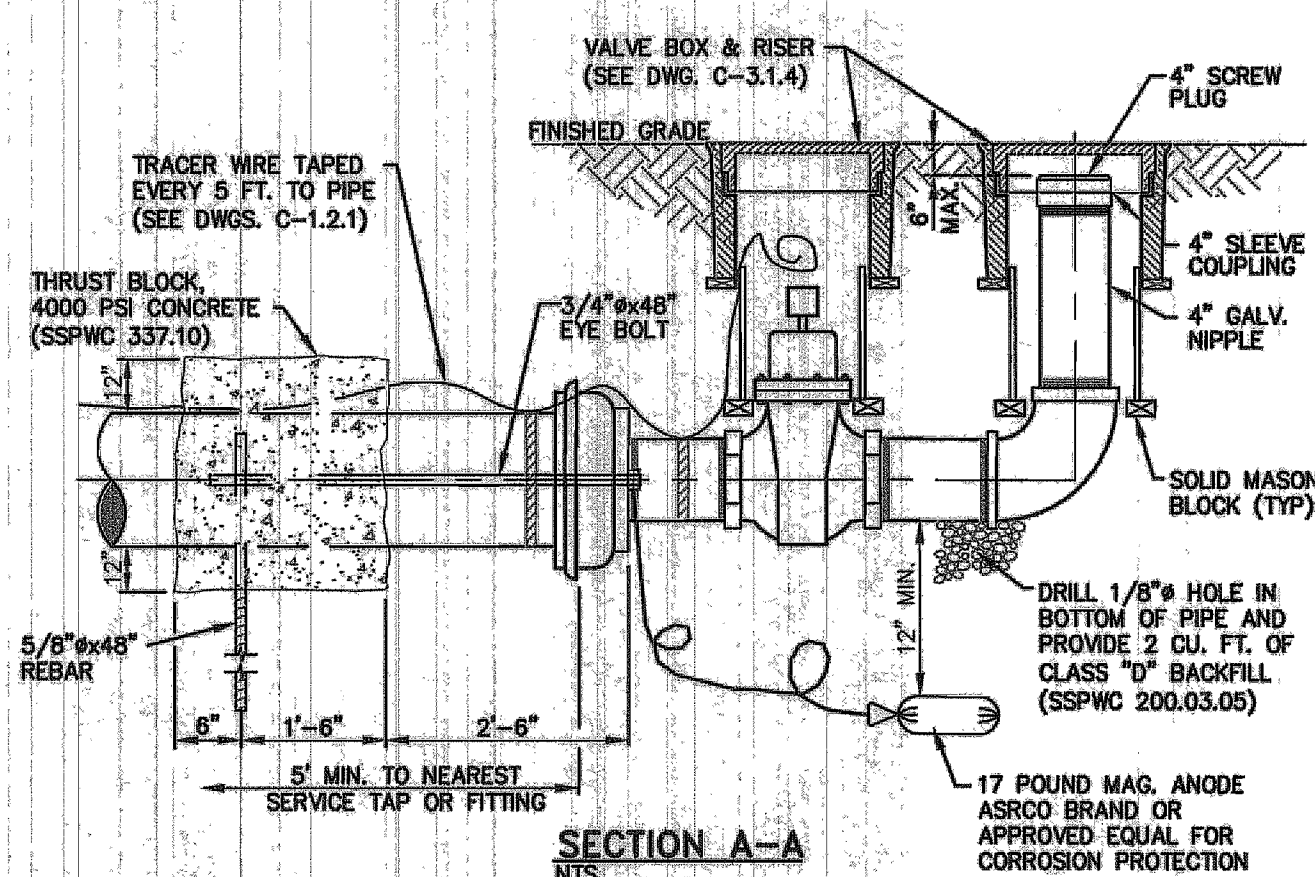
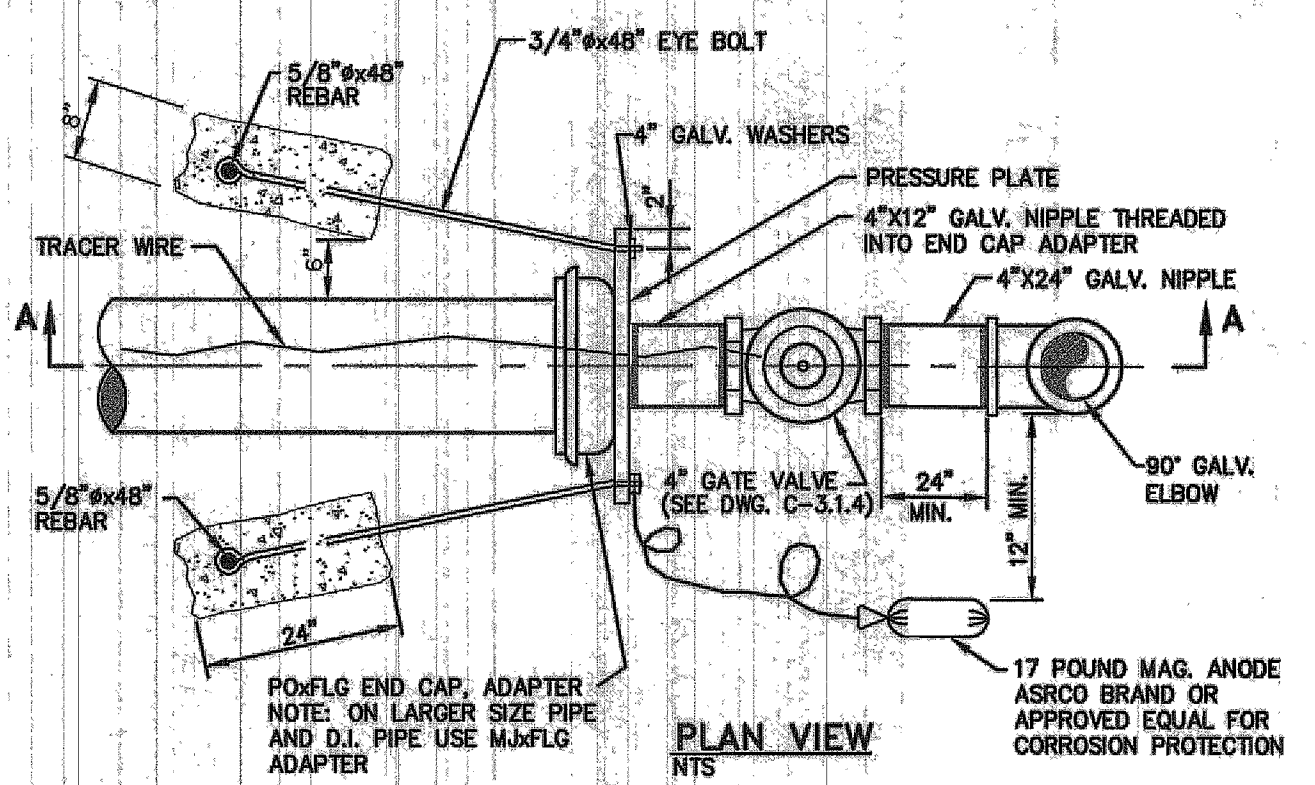
REGISTERED PROFESSIONAL ENGINEER
 THOMAS B. GRUNDY
 Exp. 6/30/15
 CIVIL
 No. 18808

BY: APPD
 DESCRIPTION
 REV. DATE

EAST/WEST WATER TRANSMISSION MAIN PROJECT - PHASE 2A-1
CONSTRUCTION DETAILS

SHEET **C13** OF **31**

FOR BIDDING PURPOSE ONLY



NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
				DRAWING NO. C-3.1.12 (203,307)
				DATE 7/2009

FLUSH ASSEMBLY PERMANENT

TYPE OF FITTING	90° BEND	45° BEND	11 1/4" OR 22 1/2" BEND	TEE OR DEAD END
TYPICAL INSTALLATION				

THRUST BLOCK BEARING AREA (SQ. FT.)

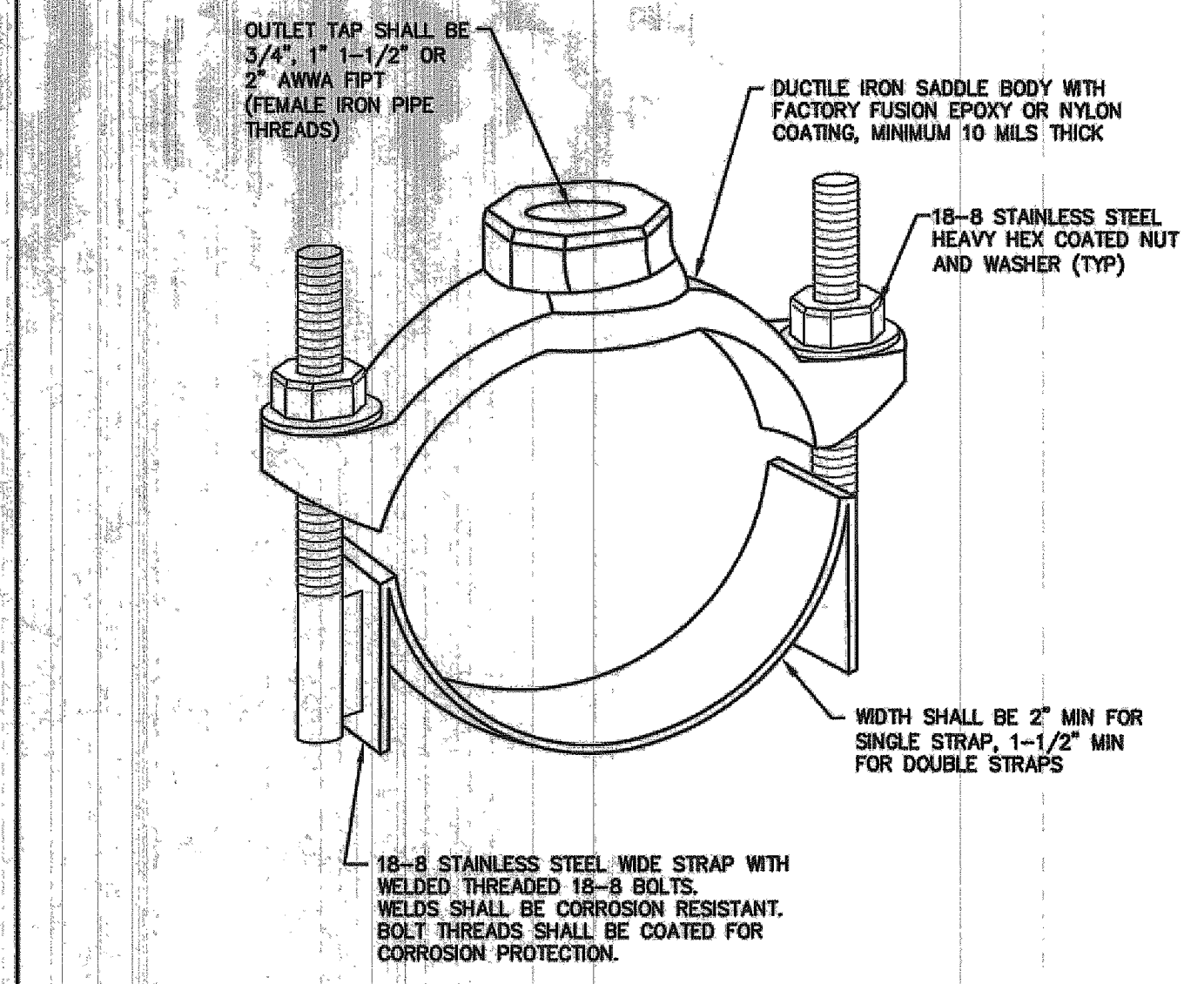
TYPE OF FITTING	90° BEND	45° BEND	11 1/4" OR 22 1/2" BEND	TEE OR DEAD END	TEE W/PLUG	CROSS W/PLUG
4"	2	1	1	2	2	2
6"	4	4	2	4	4	4
8"	7	4	2	5	7	7
10"	12	6	3	8	12	12
12"	18	10	5	12	18	18
14"	20	12	6	14	20	20
16"	27	15	8	18	27	27
18"	45	25	13	32	45	45
24"	65	35	18	46	65	65

TYPE OF FITTING	CROSS W/PLUG	TEE W/PLUG
TYPICAL INSTALLATION		

- NOTES:**
- THRUST BLOCKS TO BE CONSTRUCTED OF CONCRETE CONFORMING TO 337.10 OF THE SSPWC AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS.
 - AREAS GIVEN ARE FOR CLASS 150 PIPE AT WORKING AND TESTING PRESSURE OF 150 P.S.I. WITH 2000 P.S.F. BEARING CAPACITY. INSTALLATIONS USING DIFFERENT PIPE, TEST PRESSURES, AND/OR SOIL TYPES SHOULD HAVE AREAS ADJUSTED ACCORDINGLY, SUBJECT TO THE APPROVAL OF THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
 - THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
 - JOINTS, FLANGES, NUTS, BOLTS AND FACE OF PLUG SHALL BE KEPT CLEAR OF CONCRETE.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
				DRAWING NO. C-3.1.14
				DATE 7/2009

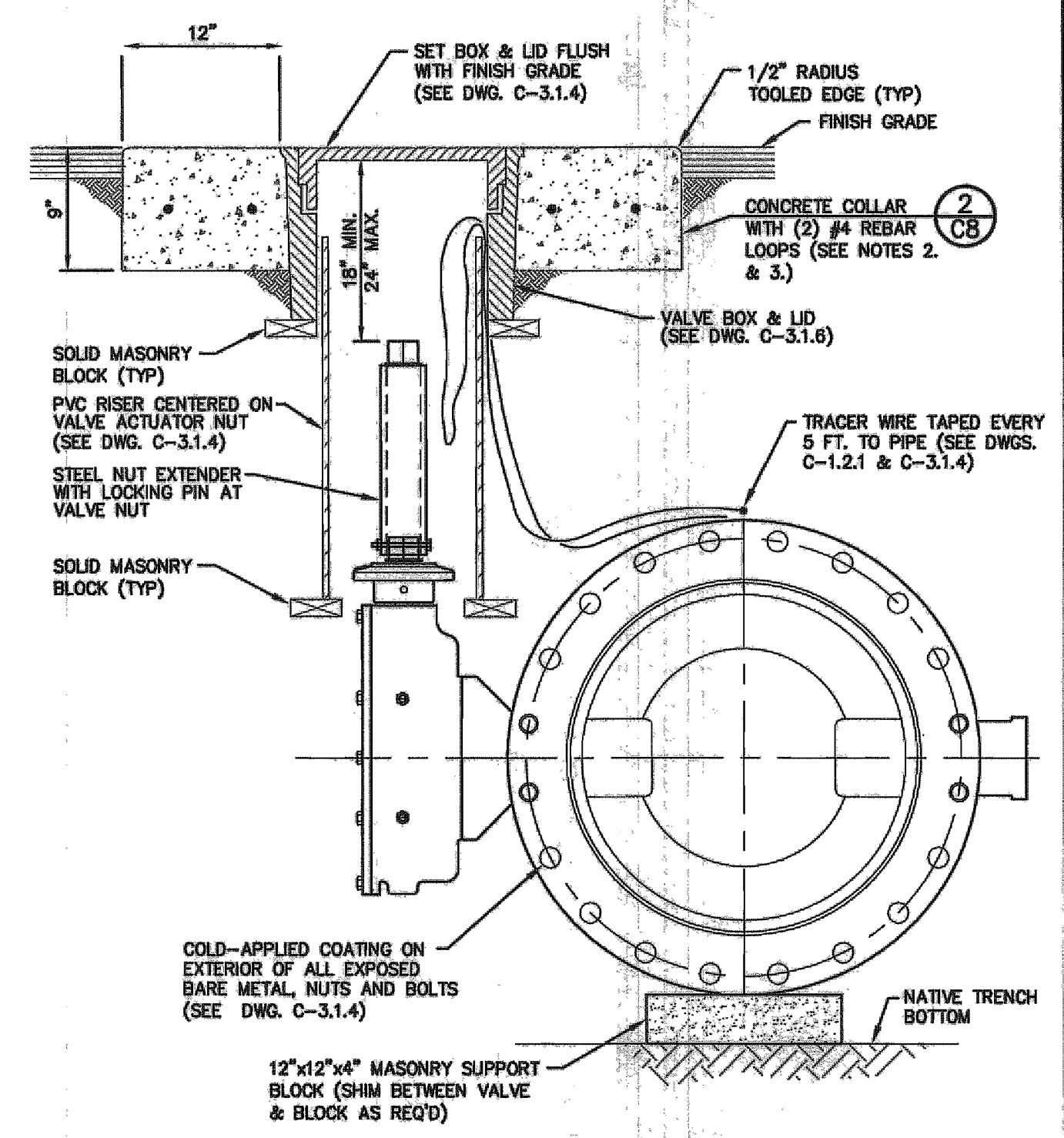
THRUST BLOCKS



- NOTES:**
- SERVICE SADDLES FOR 3/4 INCH, 1 INCH, 1-1/2 INCH & 2 INCH TAPS SHALL CONFORM TO AWWA C800 WITH A MINIMUM WORKING PRESSURE OF 150 PSI, UNLESS A HIGHER PRESSURE IS SPECIFIED, AND BE MANUFACTURED BY FORD, MUELLER, ROMAC, SMITH-BLAIR OR APPROVED EQUAL (SEE DWG. C-3.2.1 FOR ADDITIONAL NOTES AND DETAILS.) PORTABLE SERVICE SADDLES SHALL BE IN COMPLIANCE WITH NSF61.
 - SERVICE SADDLES SHALL BE FACTORY COATED DUCTILE IRON (ASTM A395 OR A536) WITH TYPE 18-8 STAINLESS STEEL (304 OR 304L) STRAP(S), BOLTS, NUTS, & WASHERS. ALL STAINLESS STEEL SHALL BE FULLY PASSIVATED.

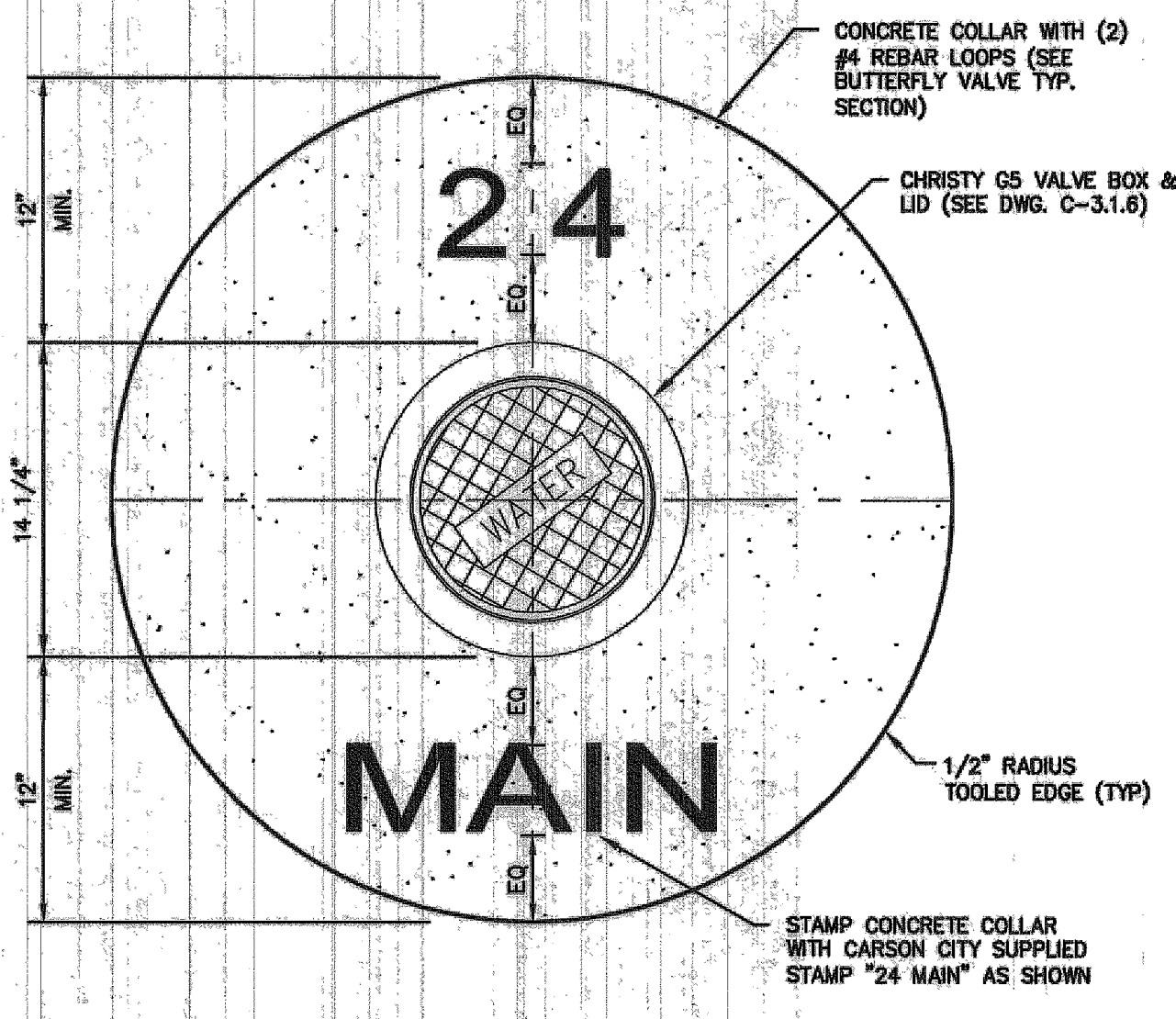
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
				DRAWING NO. C-3.2.2 (203, 307)
				DATE 7/2009

3/4" TO 2" SERVICE SADDLE



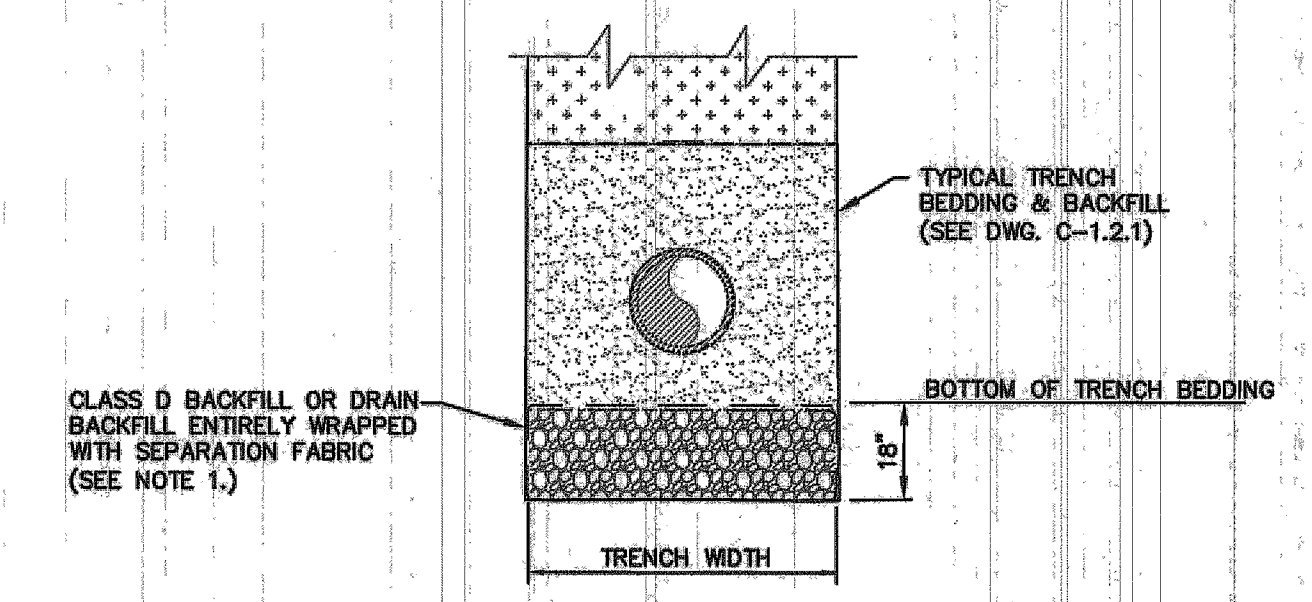
- NOTES:**
- CONCRETE COLLAR AROUND VALVE BOX SHALL EXTEND TO FINISH GRADE.
 - STAMP CONCRETE COLLAR WITH CARSON CITY SUPPLIED STAMP "24" MAIN" AS SHOWN ON VALVE BOX COLLAR PLAN.
 - CONCRETE SHALL CONFORM TO THE SSPWC SECTION 337.10

BUTTERFLY VALVE TYPICAL SECTION (1)
(FLG X MJ OR FLG X FLG)



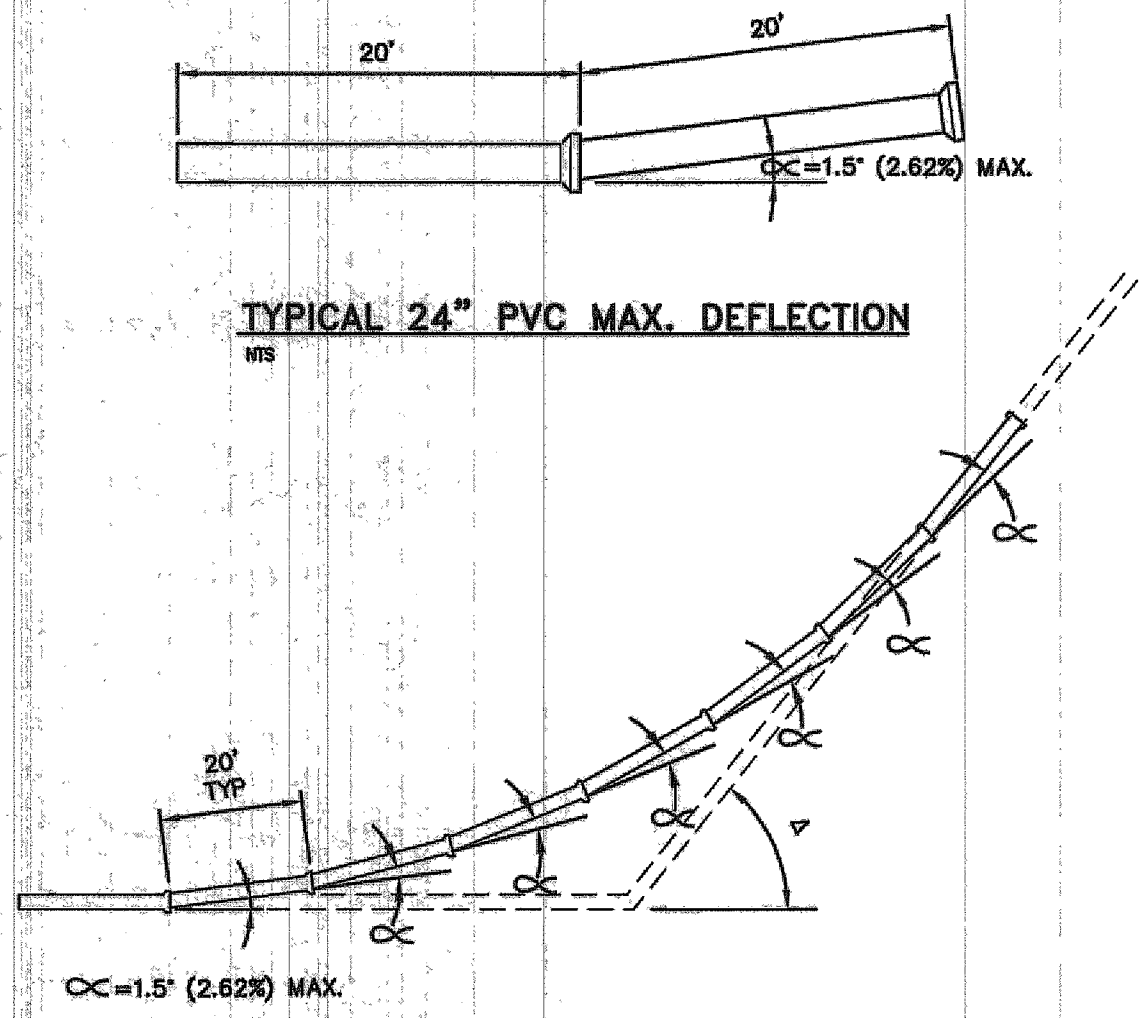
- NOTES:**
- CONCRETE SHALL CONFORM TO THE SSPWC SECTION 337.10

BUTTERFLY VALVE COLLAR PLAN (2)



- NOTES:**
- FOR SUPPORT UNDER THE BEDDING AND PIPE IN UNSTABLE SOIL CONDITIONS, TYPE "D" BACKFILL OR DRAIN BACKFILL, WITH A SEPARATION FABRIC PLACED ENTIRELY AROUND THE DRAIN BACKFILL, AS SHOWN IN THE STABILIZATION DETAIL, MAY BE USED WITH THE APPROVAL OF THE CONSTRUCTION MANAGER.
 - CLASS "D" BACKFILL OR DRAIN BACKFILL, DOES NOT NEED TO BE WASHED, BUT SHALL BE FREE OF ANY ORGANIC IMPURITIES, CLAY LUMPS OR UNSTABLE SUBSTANCES. CLASS "D" BACKFILL OR DRAIN BACKFILL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.

SIEVE SIZE	PERCENT PASSING BY MASS	REQUIREMENT	TEST METHOD
2 INCH	100	625	ASTM D 4632
1 1/2 INCH	90-100	45 MIN., 115 MAX.	ASTM D 4632
3/4 INCH	0-5	1.45	ASTM D 4633
		1.45	ASTM D 3786
		180	ASTM D 4633
		0.10 - 0.15	ASTM D 4491
		106 - 300	ASTM D 4751
		70	ASTM D 4355

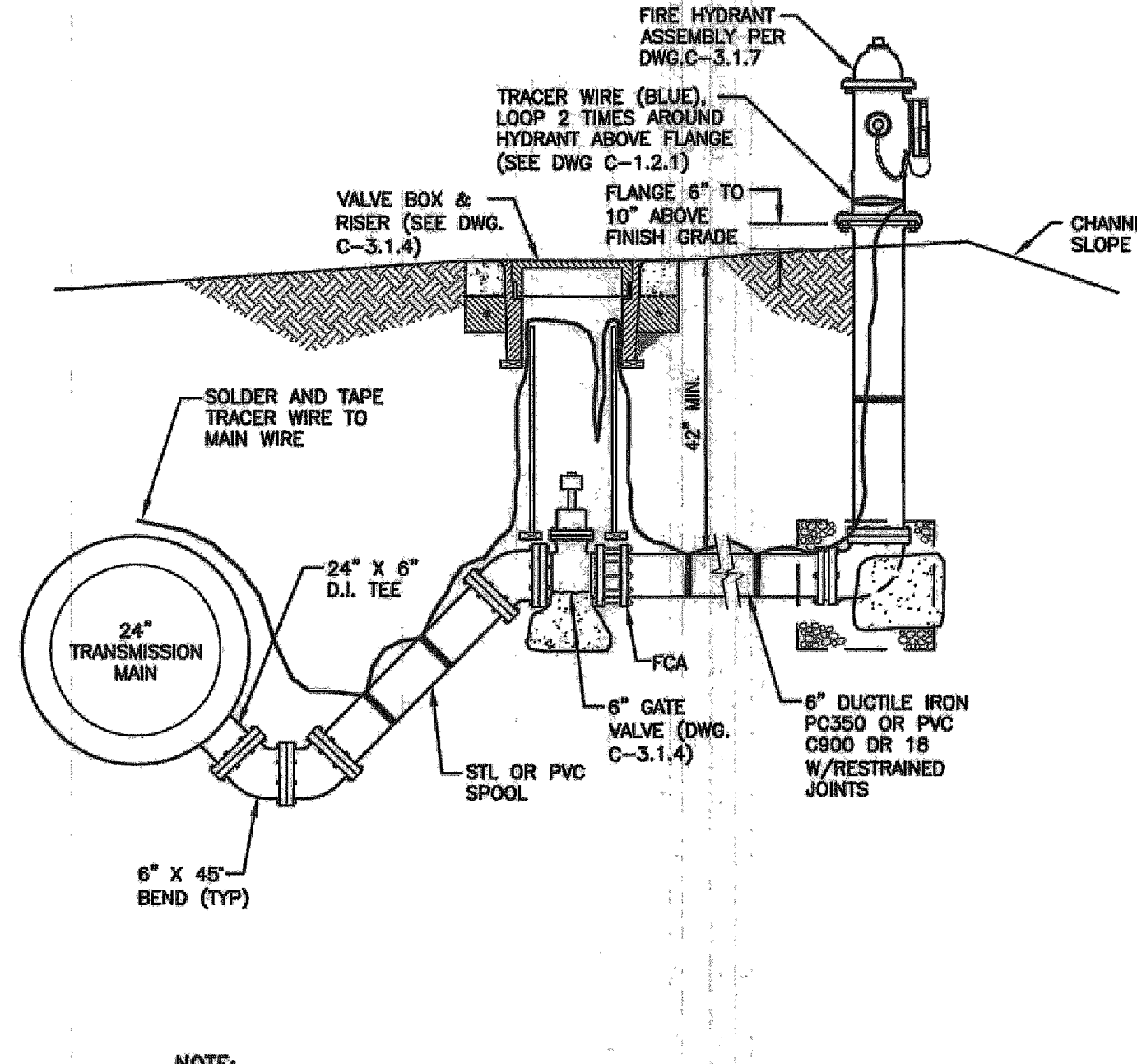


DEFLECTION EQUIVALENT CHART

DEFLECTION (INCH)	PERCENT DEFLECTION	*EQUIVALENT PIPE/APPURTENANCE REQUIRED (MIN.)
0' (0%)	- 1.5' (2.62%)	1 EA#20 FT PIPE SEGMENT @ 1.5" MAX.
1.6' (2.79%)	- 3' (5.24%)	2 EA#20 FT PIPE SEGMENT @ 1.5" MAX.
3.1' (5.4%)	- 4.5' (7.87%)	3 EA#20 FT PIPE SEGMENT @ 1.5" MAX.
9.75' (17.18%)	- 12.75' (22.62%)	1 EA#11 1/4" ELBOW
21' (38.38%)	- 24' (44.52%)	1 EA#22 1/2" ELBOW
43.5' (94.89%)	- 46.5' (105.37%)	1 EA#45" ELBOW

*CONTRACTOR TO USE GOOD CONSTRUCTION PRACTICES IN DETERMINING THE NUMBER OF PIPE SEGMENTS NEEDED TO ACHIEVE GRADE BREAK. THE DEFLECTION EQUIVALENT CHART INDICATES THE MAXIMUM ALLOWABLE DEFLECTION ANGLE.

GRADEBREAK TRANSITION DETAIL (4)

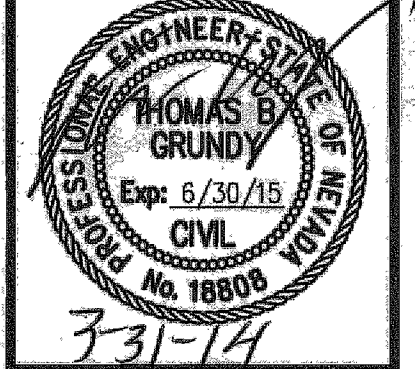


- NOTE:**
- ALL CONNECTIONS SHALL USE 304 STAINLESS STEEL BOLTS, NUTS & WASHERS.

FLUSH ASSEMBLY DETAIL (5)

DESIGNED BY: DGR
 DRAWN BY: DGR
 CHECKED BY: TEG
 DWG NO.: 4-0900-detailed phase 2a-1
 SCALE (HORIZ): AS NOTED
 SCALE (VERT): N/A
 PLOT DATE: 3/31/14

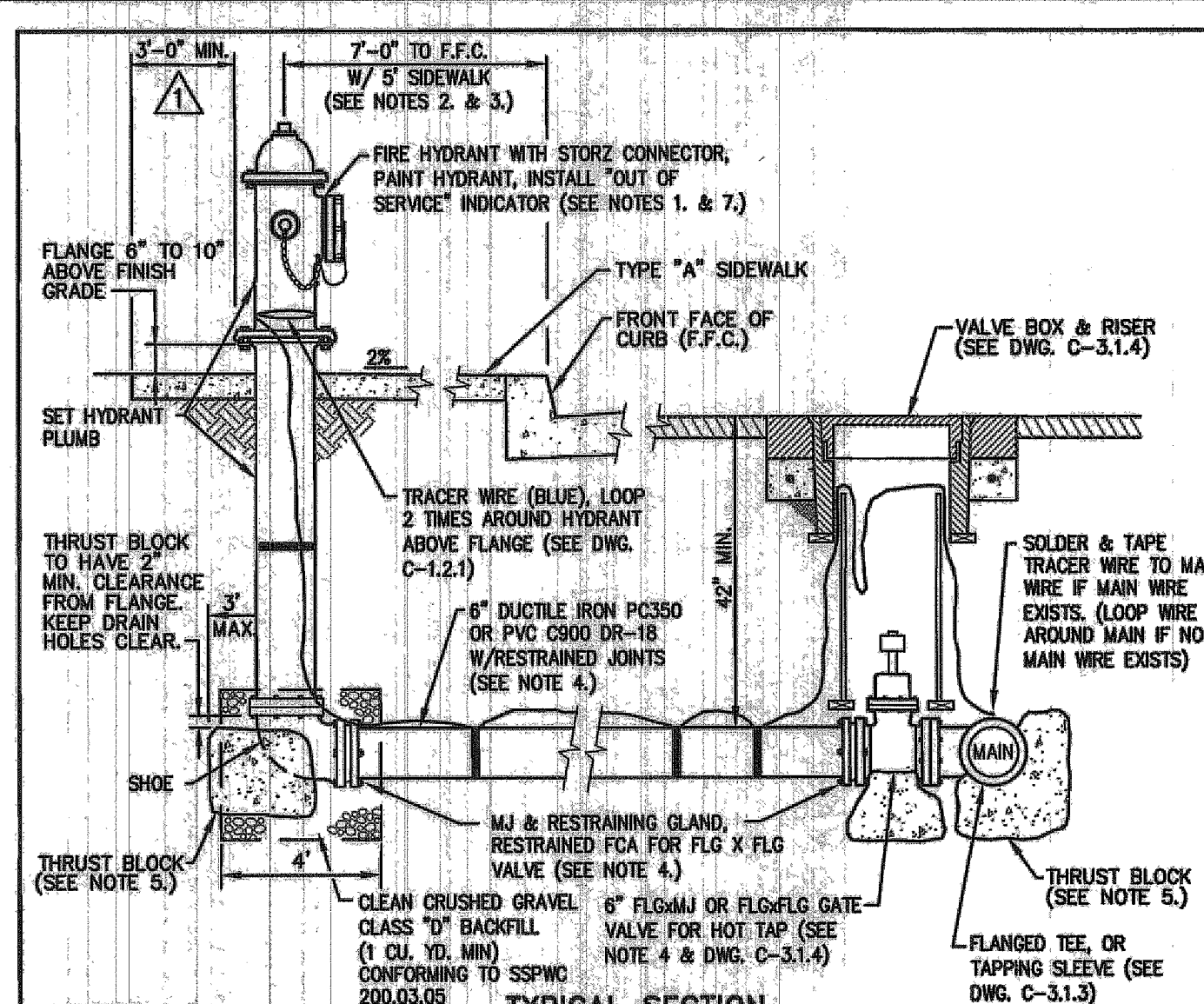
CARSON CITY PUBLIC WORKS DEPARTMENT
 3505 BUTTI WAY CARSON CITY, NEVADA 89701
 PH: 867-2355 FAX: 867-2112



NO.	REVISION	DATE	DESCRIPTION

EAST/WEST WATER TRANSMISSION MAIN PROJECT - PHASE 2A-1 PROJECT No. 4.0900 CONSTRUCTION DETAILS

FOR BIDDING PURPOSE ONLY

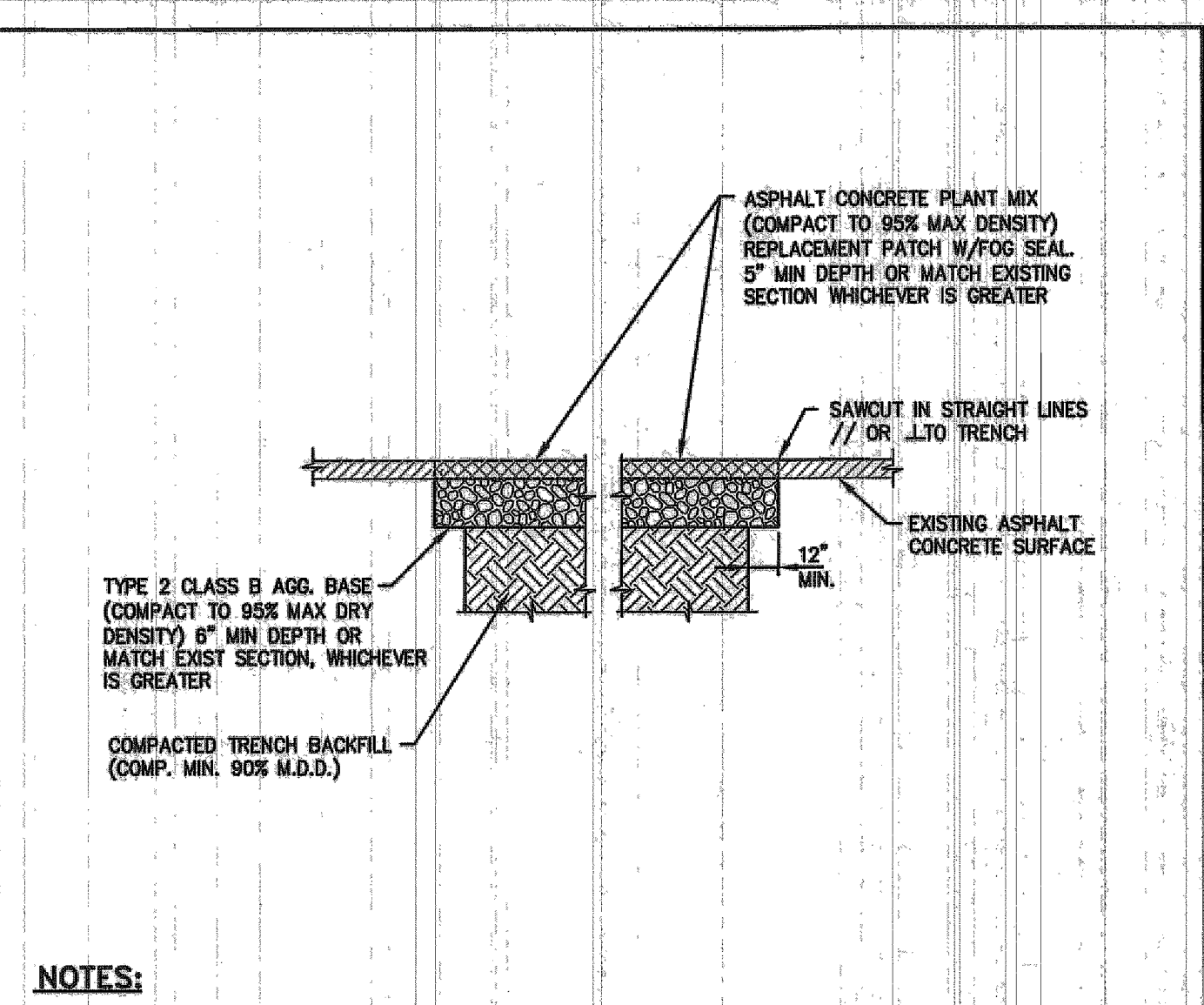


- NOTES:**
- FIRE HYDRANTS SHALL BE MUELLER SUPER CENTURION 250 OR WATEROUS 5 1/4 INCH PACER (WG-67-250). ALL HYDRANTS SHALL HAVE HARRINGTON HHS 5 INCH INTEGRAL HYDRANT STORZ, OR APPROVED EQUAL, WITH BLIND CAP & CABLE AND "OUT OF SERVICE" INDICATOR. OPERATING NUT SHALL BE 1-1/2 INCH PENTAGON. VALVE OPENING SHALL BE 5-1/4 INCHES AND OPEN COUNTER-CLOCKWISE. HYDRANTS SHALL HAVE (2) 2-1/2 INCH HOSE NOZZLES WITH AMERICAN NATIONAL HOSE COUPLING THREADS. (NO SUBSTITUTIONS)
 - HYDRANT SHALL BE INSTALLED SO AS TO PROVIDE CLEARANCE IN ALL DIRECTIONS PER DWG. C-3.1.7.1.
 - FOR 9 FEET-0 INCHES OR WIDER SIDEWALK OR OFFSET SIDEWALK, HYDRANT SHALL BE 2 FEET-0 INCHES TO FRONT FACE OF CURB. IF SIDEWALK IS NOT PRESENT, HYDRANT SHALL BE LOCATED 7 FEET-0 INCHES TO FRONT FACE OF CURB, EXCEPT IN DOWNTOWN AREA.
 - RESTRAINING GLANDS SHALL BE ROMAC GRIPPING PIPE RESTRAINER FOR MECHANICAL JOINT VALVES OR ROMAC RESTRAINED FCA FOR FLANGED VALVES OR APPROVED EQUAL. PIPE RESTRAINT SHALL BE ROMAC "600" SERIES RESTRAINING SYSTEM OR APPROVED EQUAL. RESTRAINING DEVICES SHALL BE FULL CIRCLE (NON POINT) LOADING TYPE. HYDRANT SHADE MAY BE AQUADRIIP, RESTRAINED MECHANICAL JOINT (MJ) OR APPROVED EQUAL.
 - THRUST BLOCKS SHALL HAVE THREE (3) SQUARE FEET MINIMUM AREA AND SHALL BE FORMED AGAINST UNDISTURBED NATIVE OR BACKFILL COMPACTED TO 95% AND CONFORM TO DWG. C-3.1.1.4. NO CONCRETE ON HYDRANT DRAIN HOLES OR BOLTS.
 - INSPECTION BY THE CARSON CITY INSPECTOR SHALL BE REQUIRED PRIOR TO BACKFILLING.
 - HYDRANTS SHALL BE PAINTED INTERNATIONAL ORANGE (RUST-CLEUM 7400 HIGH GLOSS ALKYLID ENAMEL OR APPROVED EQUAL). DO NOT PAINT 5 INCH STORZ, CAP OR CABLE. RECLAIMED WATER HYDRANTS SHALL BE PAINTED PURPLE. INSTALL "OUT OF SERVICE" INDICATOR COLLAR ON 2-1/2 INCH NOZZLE. INDICATOR SHALL BE HIGHLY VISIBLE, YELLOW WITH BLACK LETTERS, 2-1/2 INCH MINIMUM WIDTH WITH 1 INCH LETTERS STATING "OUT OF SERVICE". INDICATOR SHALL BE "CALPICO" OR EQUAL APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
1	5" AC DEPTH	09/11		CARSON CITY

FIRE HYDRANT ASSEMBLY

CARSON CITY
DRAWING NO. C-3.1.7 (203,307)
DATE 7/2009

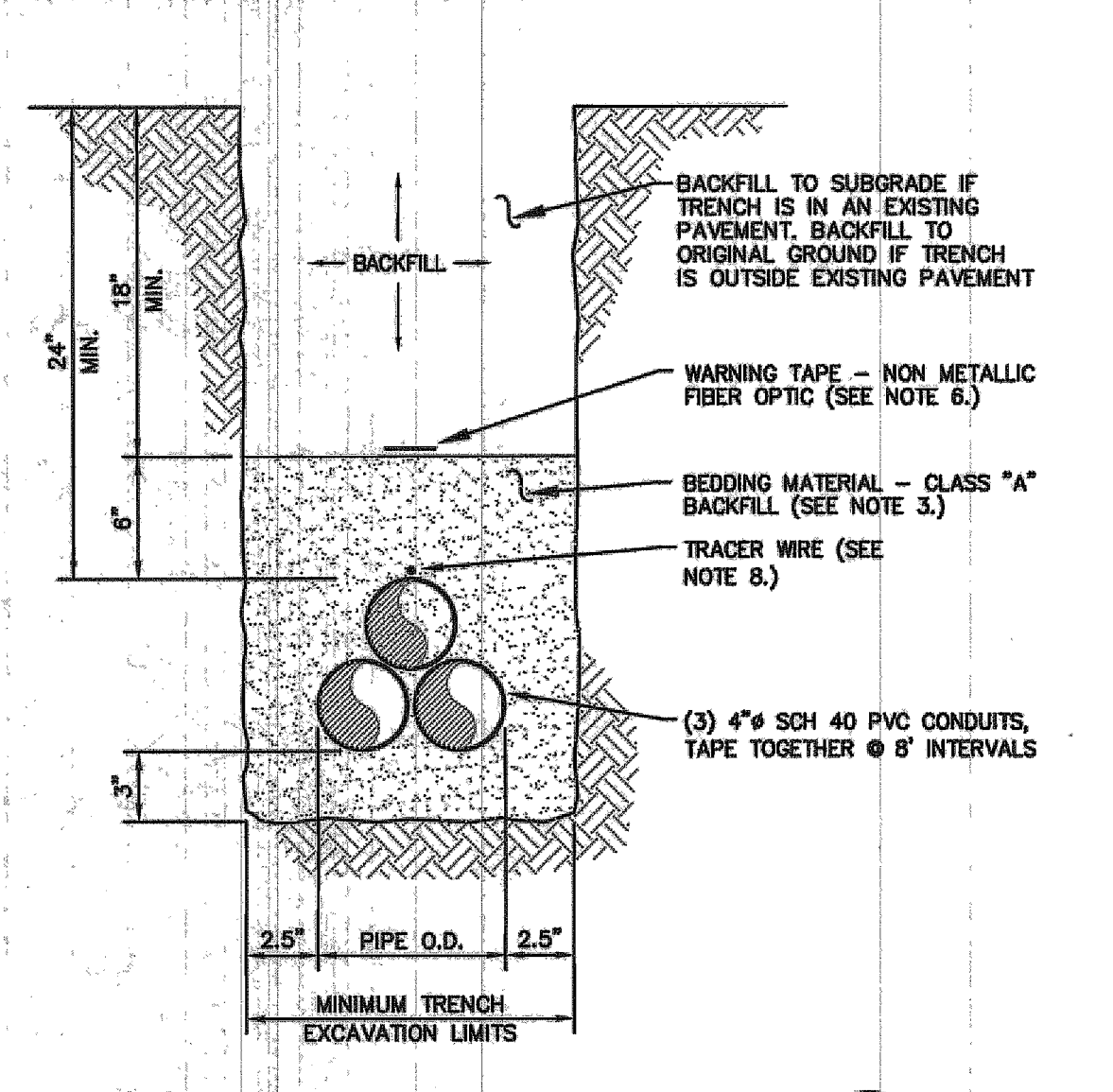


- NOTES:**
- IF SAWCUT IS WITHIN 24 INCHES OF EDGE OF A.C. PAVEMENT REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
 - BITUMINOUS MATERIAL SHALL MEET THE REQUIREMENTS OF SECTIONS 201 AND 320 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - MIXING, SPREADING, AND COMPACTING OF BITUMINOUS PAVEMENT SHALL BE DONE ONLY WHEN THE SURFACE ON WHICH THE MATERIALS ARE TO BE PLACED IS DRY AND WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 50 DEGREES FAHRENHEIT AND HAS NOT BEEN BELOW 40 DEGREES FAHRENHEIT DURING THE PRECEDING 24 HOURS.
 - FINISHED SURFACE VARIATIONS SHALL BE 0 TO 0.25 INCHES ABOVE EXISTING SURFACE. ALL HUMPS EXCEEDING THIS TOLERANCE SHALL BE CORRECTED BY REMOVAL OF MATERIAL AND REPLACING IT WITH NEW MATERIAL. FINISHED SURFACE OF PATCH SHALL NOT BE BELOW EXISTING ADJACENT SURFACE.
 - PLANTMIX BITUMINOUS PAVEMENT SURFACE COURSE SHALL BE PG-64-22 TYPE 3 AND SUB SURFACE COURSES SHALL BE PG-64-22 TYPE 3 UNLESS OTHERWISE NOTED.
 - PLANTMIX BITUMINOUS PAVEMENT PATCHES SHALL MATCH EXISTING SECTION OR HAVE A MINIMUM THICKNESS OF 5 INCHES, WHICHEVER IS GREATER.
 - PLANS SHALL SPECIFY PAVEMENT PATCH AND AGGREGATE BASE DEPTHS AS SPECIFIED BY THE DESIGN ENGINEER.

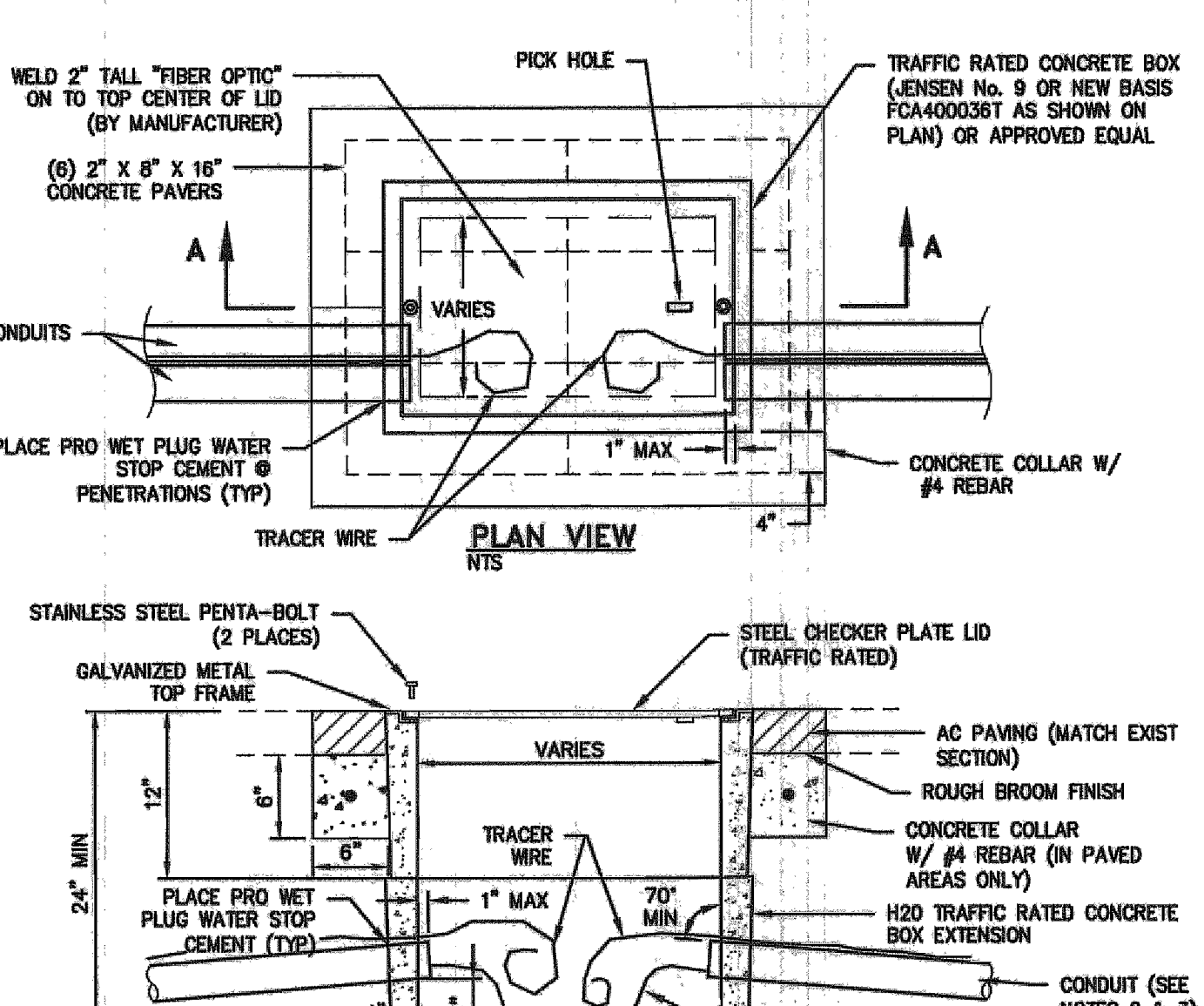
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
1	5" AC DEPTH	09/11		CARSON CITY

PAVEMENT PATCH

CARSON CITY
DRAWING NO. C-5.1.6
DATE 7/2009



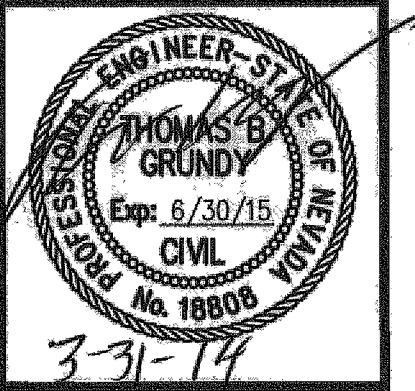
- NOTES:**
- WATER DENSIFIED BACKFILL AND TUNNELING SHALL BE BY SPECIAL PROVISION ONLY.
 - BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF CLASS E BACKFILL AS SPECIFIED IN SUBSECTION 200.03.06 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC). MATERIAL SHALL BE PLACED IN LIFT THICKNESS SPECIFIED IN SUBSECTION 305.10 OF THE SSPWC AND DENSIFIED TO 90% RELATIVE COMPACTION.
 - BEDDING SHALL CONFORM TO THE REQUIREMENTS OF CLASS A BACKFILL AS SPECIFIED IN SUBSECTION 200.03.02 OF THE SSPWC. MATERIAL SHALL BE DENSIFIED TO 90% RELATIVE COMPACTION.
 - FOR TRENCHES IN ROADWAY SECTION, SEE PAVEMENT PATCH (PERMANENT) STANDARD DRAWING C-5.1.6.
 - FOR THE PURPOSE OF PAYMENT, EXCAVATION AND BACKFILL QUANTITIES ARE BASED ON THESE STANDARD DRAWINGS, AND NO ADDITIONAL COMPENSATION WILL BE MADE. SHORING OR SLOPED CUT SLOPES MAY BE NECESSARY, BUT THERE WILL BE NO ADDITIONAL PAYMENT. ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.
 - PLACE NON METALLIC WARNING TAPE 1 FOOT ABOVE ALL BURIED PIPES AND CONDUITS.
 - TRACER WIRE SHALL BE 12 GAUGE (MINIMUM THICKNESS) INSULATED SOLID COPPER OR COPPER-CLAD STEEL CORE WIRE. INSULATION SHALL BE 30 MIL HOPE. PLANS SHALL SPECIFY WIRE STRENGTH AND INSULATION THICKNESS FOR BORING APPLICATIONS. SPLICES SHALL BE CONNECTED BY WIRE NUTS SEALED WITH AQUA SEAL OR SILICON FILLED, AND DOUBLE WRAPPED WITH U/L LISTED ELECTRICAL TAPE. TRACER WIRE COLOR SHALL BE, BLUE FOR WATER, PURPLE FOR RECLAIMED WATER, GREEN FOR SEWER, AND YELLOW FOR ELECTRICAL/FIBER OPTIC.



- NOTES:**
- FIBER OPTIC PULL BOXES AND COVERS SHALL BE H-20 TRAFFIC RATED, WITH BOLT DOWN STEEL COVER LID MARKED "FIBER OPTIC".
 - CONDUIT SHALL BE SCHEDULE 40 PVC ELECTRICAL CONDUIT. ALL CONDUITS ENTERING A PULLBOX SHALL BE CARPPED WITH AN END BELL.
 - CONDUIT RUNS SHALL NOT USE SWEEPS INTO THE PULL BOX UNLESS OTHERWISE NOTED. CONDUIT PENETRATIONS SHALL ENTER BOX AT NO MORE THAN 20 DEGREES FROM PERPENDICULAR. CONDUIT SHALL BE RAISED FROM TRENCH DEPTH TO BOX WITHOUT SWEEPS. CONDUIT SHALL REACH TRENCH DEPTH WITHIN 10' OUTSIDE OF BOX MAX.
 - CONDUITS SHALL HAVE 1/4" POLYESTER PULL LINE WITH SEQUENTIAL FOOTAGE MARKINGS AND A MINIMUM BREAKING STRENGTH OF 400 POUNDS, PULL LINE SHALL EXTEND A MINIMUM OF 3 FEET FROM EACH HANDHOLE.

DESIGNED BY: DGR
DRAWN BY: DGR
CHECKED BY: TBG
DWG NO.: 4-0900-detailed phase 2a-1
SCALE (HORIZ): AS NOTED
SCALE (VERT): N/A
PLOT DATE: 3/23/14

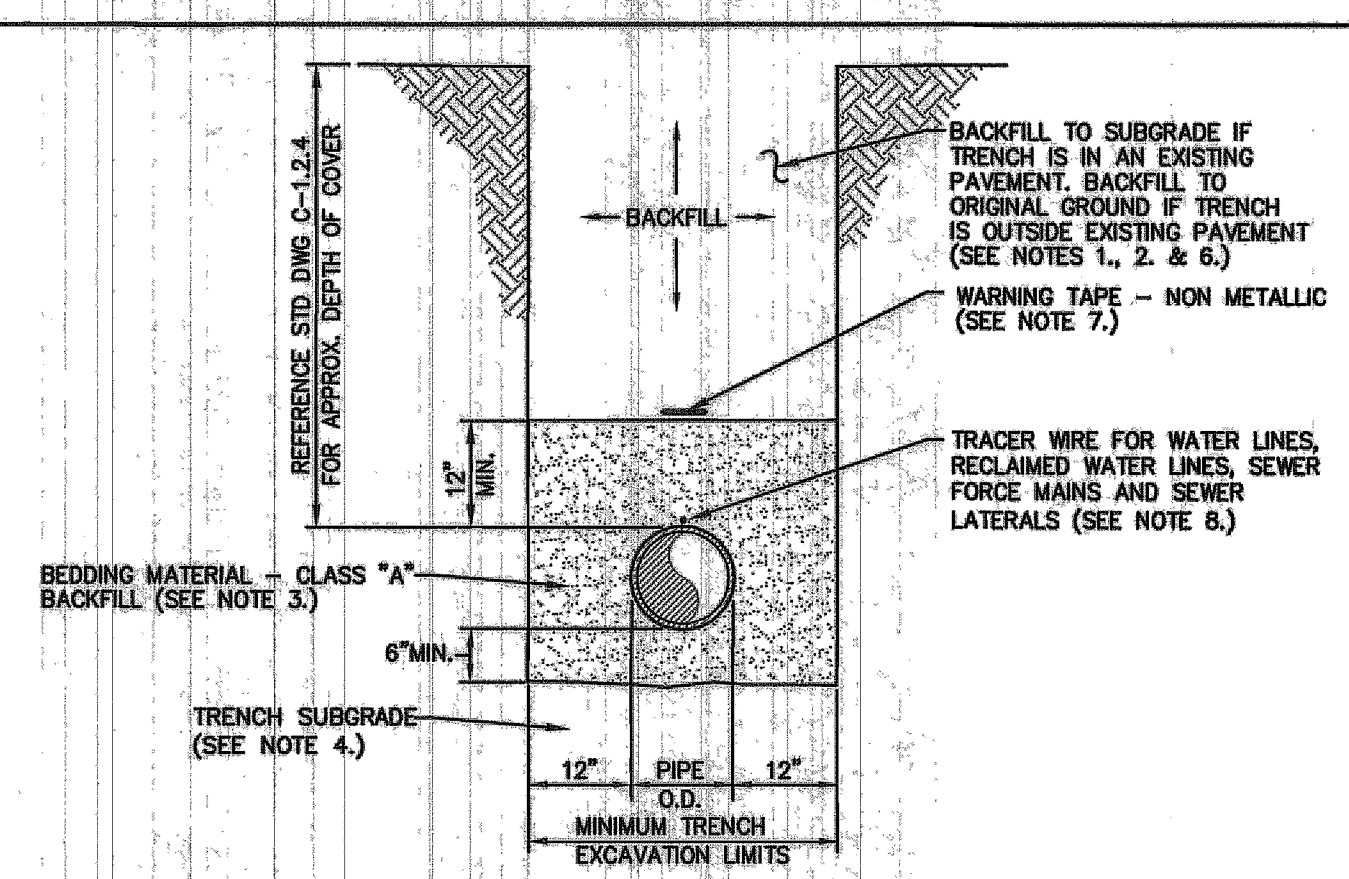
CARSON CITY PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112



REV.	DATE	DESCRIPTION	BY	APP'D

EAST/WEST WATER TRANSMISSION MAIN PROJECT - PHASE 2A-1 PROJECT No. 4.0900 CONSTRUCTION DETAILS

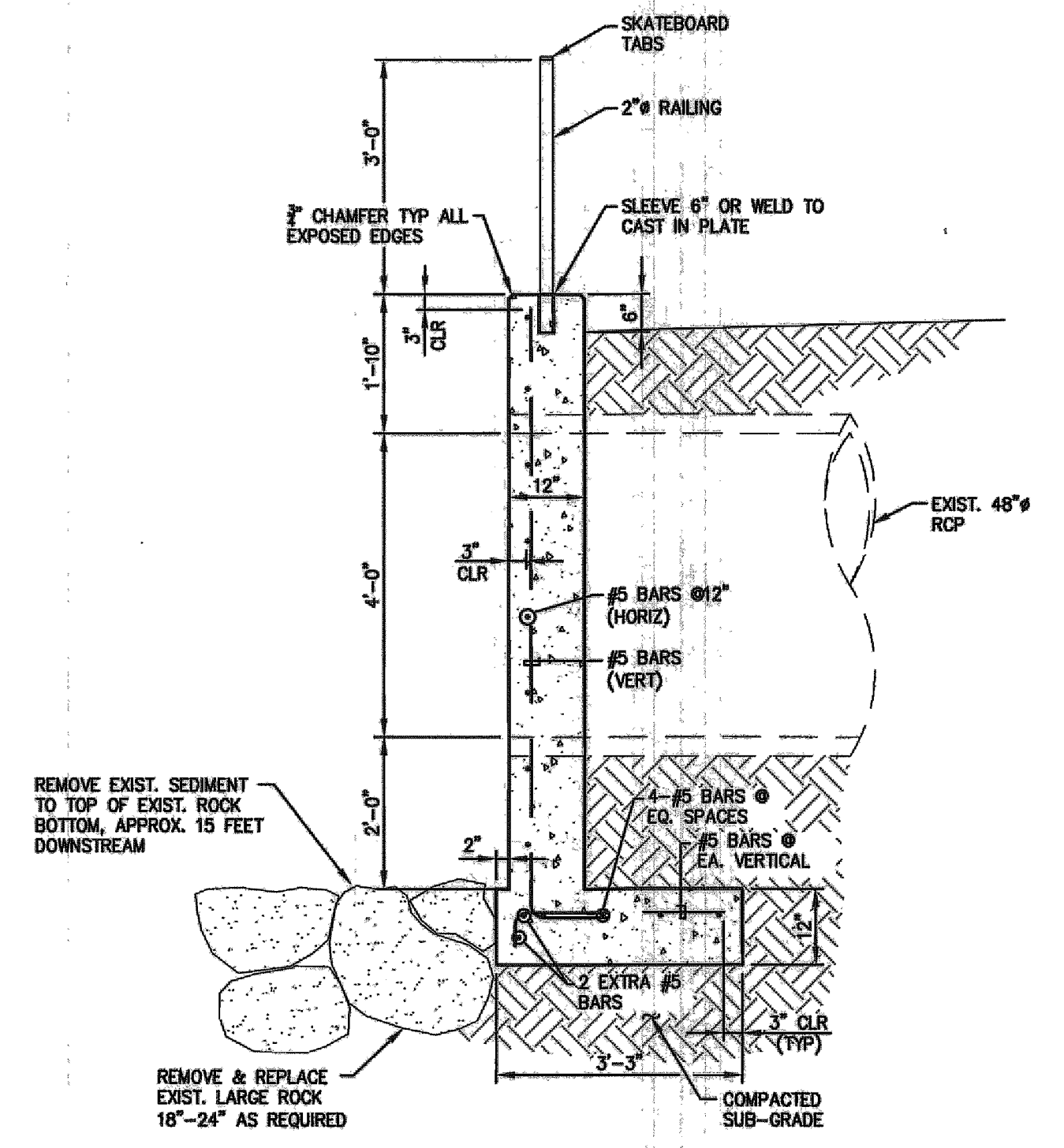
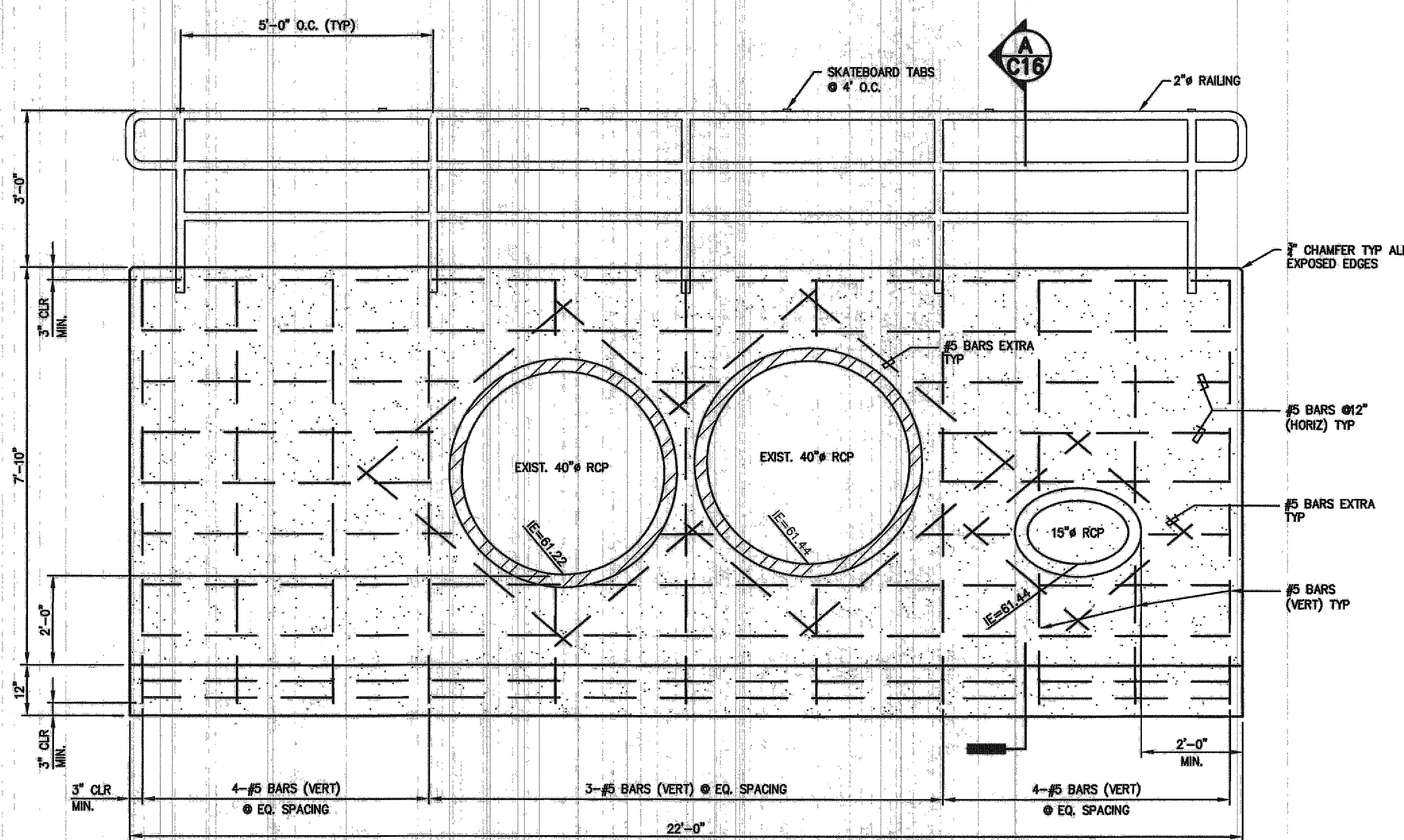
FOR BIDDING PURPOSE ONLY



- NOTES:**
1. WATER DENSIFIED BACKFILL AND TUNNELING SHALL BE BY SPECIAL PROVISION ONLY.
 2. BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF CLASS E BACKFILL AS SPECIFIED IN SUBSECTION 200.03.06 OF THE SSPWC. MATERIAL SHALL BE PLACED IN LIFT THICKNESS SPECIFIED IN SUBSECTION 305.10 OF THE SSPWC AND DENSIFIED TO 90% RELATIVE COMPACTION.
 3. BEDDING SHALL CONFORM TO THE REQUIREMENTS OF CLASS A BACKFILL AS SPECIFIED IN SUBSECTION 200.03.02 OF THE SSPWC. MATERIAL SHALL BE DENSIFIED TO 90% RELATIVE COMPACTION.
 4. PLANS SHALL INCLUDE A DETAIL FOR SUBGRADE STABILIZATION INCLUDING BACKFILL MATERIAL, STRUCTURAL GEOTEXTILE FILTER FABRIC AND MODIFIED CUTOFF COLLARS WHEN POTENTIAL FOR UNSTABLE SUBGRADES EXIST, SUBJECT TO THE APPROVAL OF THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
 5. FOR TRENCHES IN ROADWAY SECTION, SEE PAVEMENT PATCH DETAIL (DWS. No. C-5.1.6).
 6. FOR THE PURPOSE OF PAYMENT, EXCAVATION AND BACKFILL QUANTITIES ARE BASED ON THESE STANDARD DRAWINGS, AND NO ADDITIONAL COMPENSATION WILL BE MADE. SHORING OR SLOPED CUT SLOPES MAY BE NECESSARY, BUT THERE WILL BE NO ADDITIONAL PAYMENT. ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.
 7. PLACE NON METALLIC WARNING TAPE 1 FOOT ABOVE ALL BURIED PIPES AND CONDUITS.
 8. TRACER WIRE SHALL BE 12 GAUGE (MINIMUM THICKNESS) INSULATED SOLID COPPER OR COPPER-CLAD STEEL. CORE WIRE INSULATION SHALL BE 30 MIL. HOPE. PLANS SHALL SPECIFY WIRE STRENGTH AND INSULATION THICKNESS FOR BORING APPLICATIONS. SPLICES SHALL BE CONNECTED BY WIRE NUTS, SEALED WITH AQUA SEAL OR SILICON FILLED, AND DOUBLE WRAPPED WITH U/L LISTED ELECTRICAL TAPE. TRACER WIRE COLOR SHALL BE, BLUE FOR WATER, PURPLE FOR RECLAIMED WATER, AND GREEN FOR SEWER.

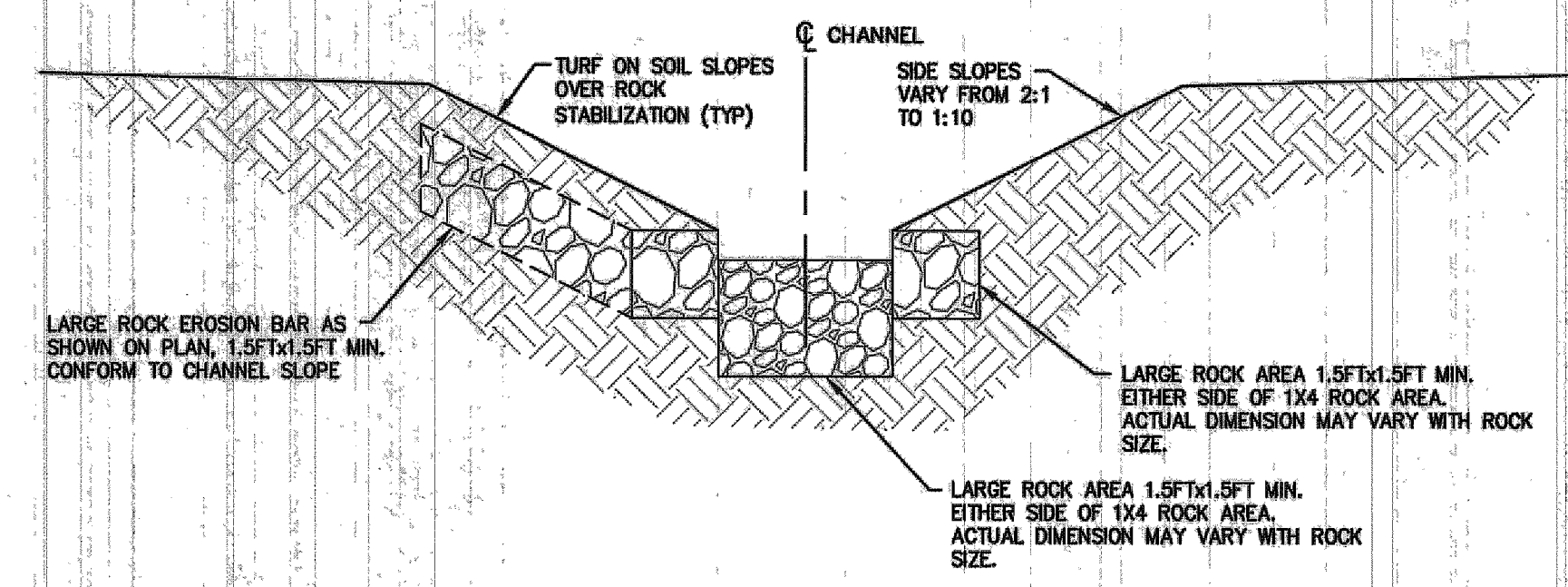
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
				DRAWING NO. C-1.2.1 (305)
				DATE 7/2009

TRENCH EXCAVATION AND BACKFILL

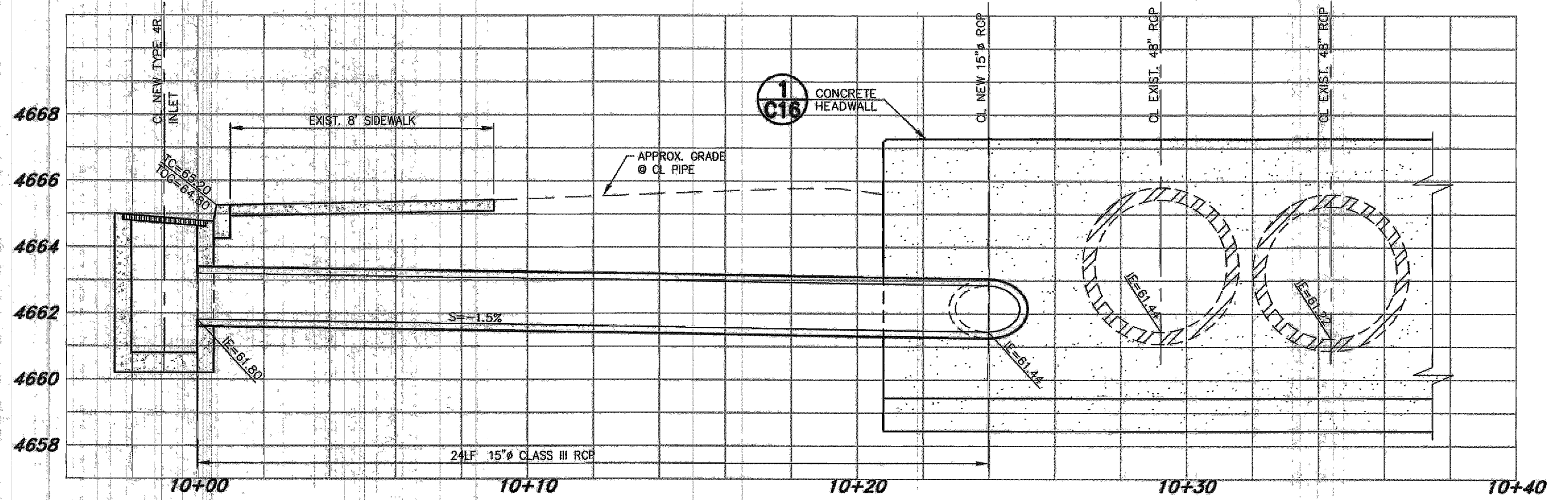


HEADWALL DETAIL 1

- NOTES:**
1. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS; MINIMUM 6 SACKS OF CEMENT PER CUBIC YARD, WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5% SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202.
 2. ALL REINFORCING STEEL SHALL BE NEW DEFORMED BILLET STEEL, SIZE AND SPACING PER PLAN, SET 3 INCHES CLEAR OF SURFACE OF CONCRETE UNLESS OTHERWISE NOTED. REINFORCING BARS MAY BE CUT AND BENT IN FIELD.
 3. CULVERT PIPES TO BE SET ON A SKEW SHALL BE MITERED AND GROUND FLUSH WITH CONCRETE SURFACE WHEN HEADWALL IS CONSTRUCTED.



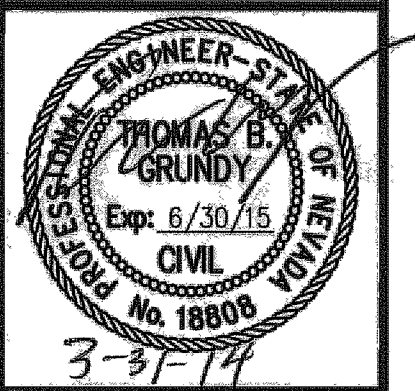
TYPICAL CHANNEL SECTION B



15" RCP STORM DRAIN PROFILE
SCALE: 1"=3'

DESIGNED BY: DGR
 DRAWN BY: DGR
 CHECKED BY: TBG
 DWG NO.: 40900-ph-2a1.mils pk 10a
 SCALE (HORIZ): AS NOTED
 SCALE (VERT): N/A
 PLOT DATE: 3/31/14

CARSON CITY PUBLIC WORKS DEPARTMENT
 3505 BUTTI WAY CARSON CITY, NEVADA 89701
 PH: 887-2355 FAX: 887-2112



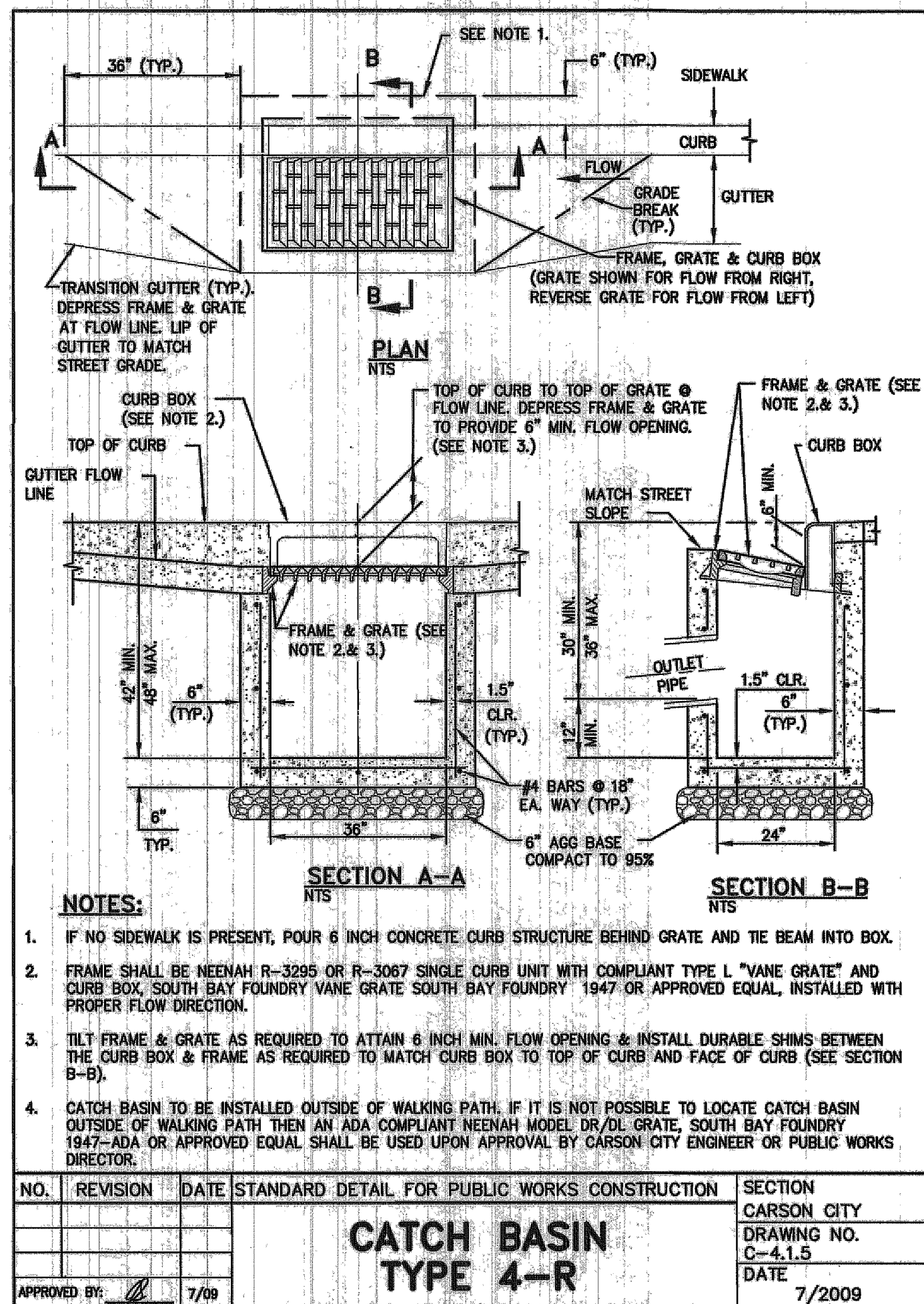
REV.	DATE	DESCRIPTION	BY	APP'D

EAST/WEST WATER TRANSMISSION MAIN PROJECT - PHASE 2A - 1
PROJECT No. 4.0900
CONSTRUCTION DETAILS DRAINAGE

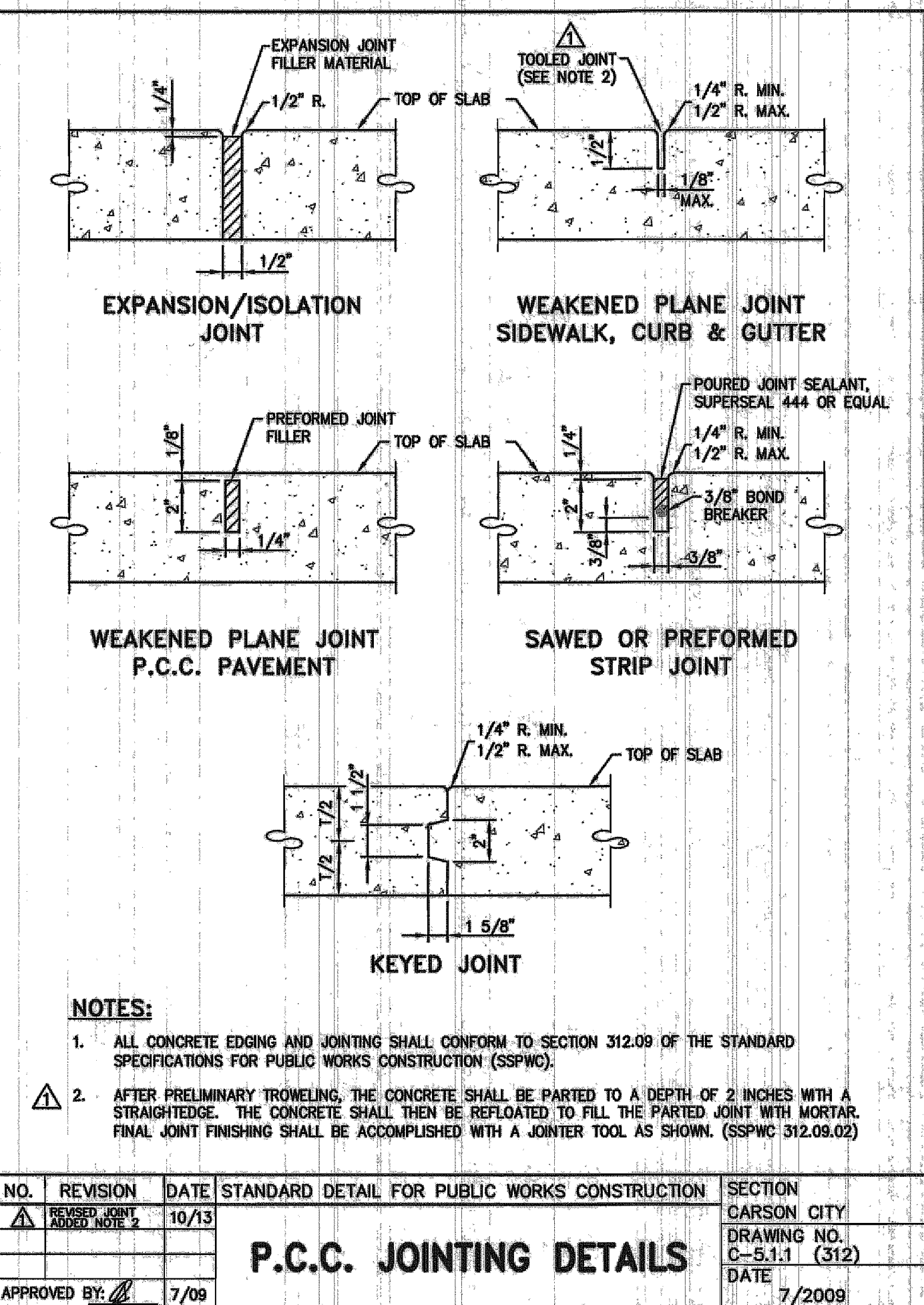
SHEET
C16
 OF
31

FOR BIDDING PURPOSE ONLY

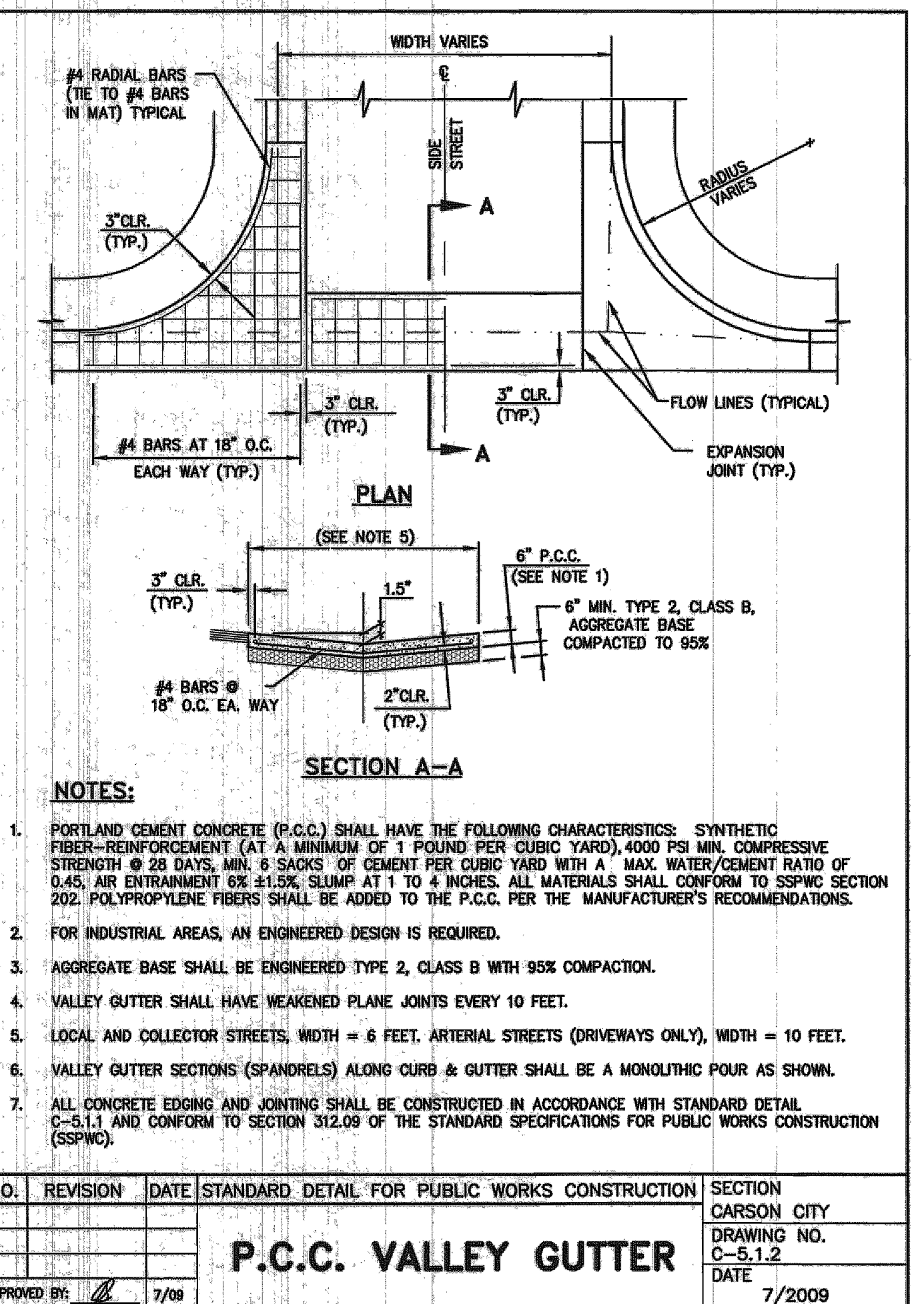
PROJECTS\40900 E-W Transmission Main Phase 2a\1-2a1.mils PK 10a.dwg 3/29/14



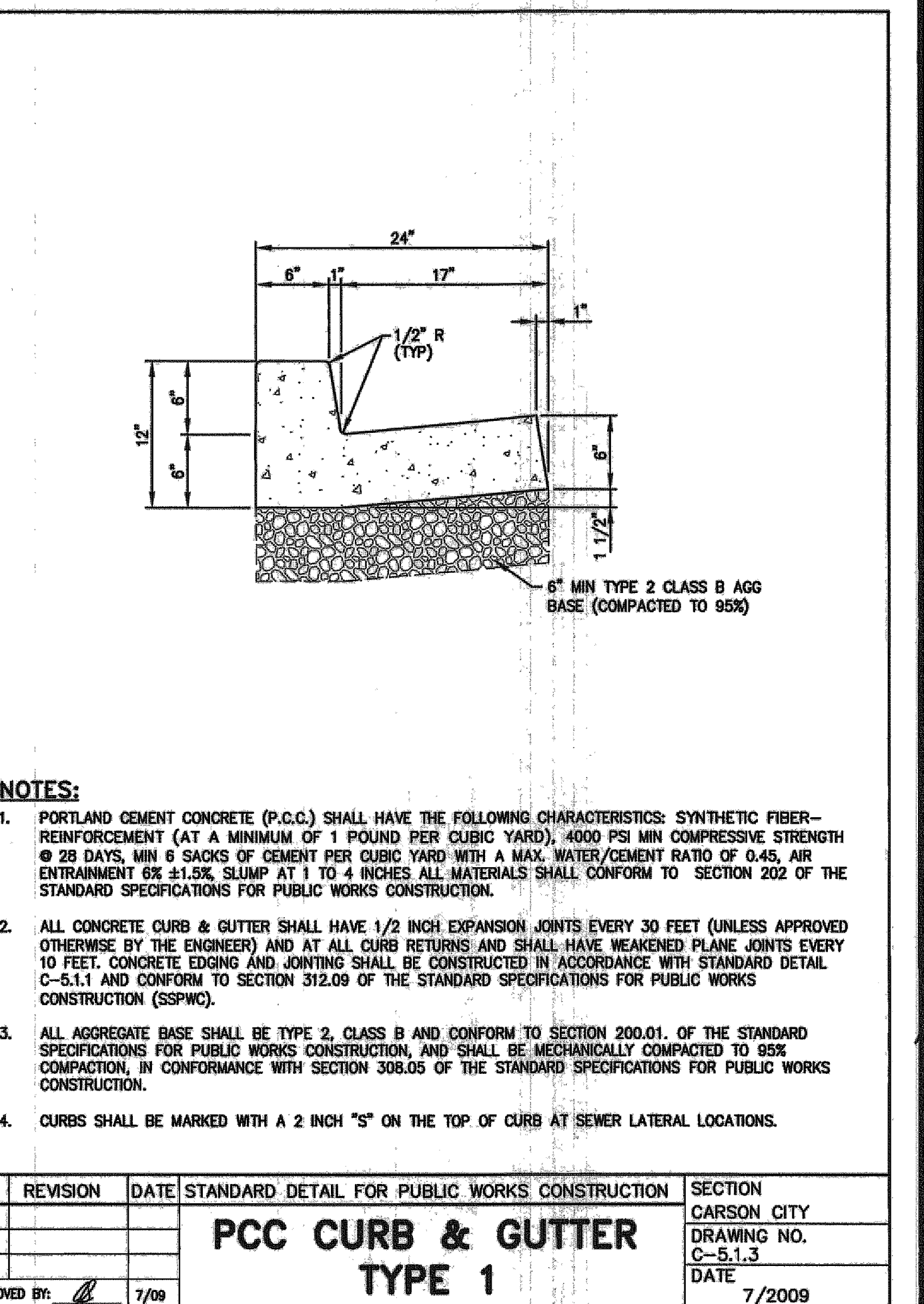
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
				DRAWING NO. C-4.1.5
				DATE 7/2009



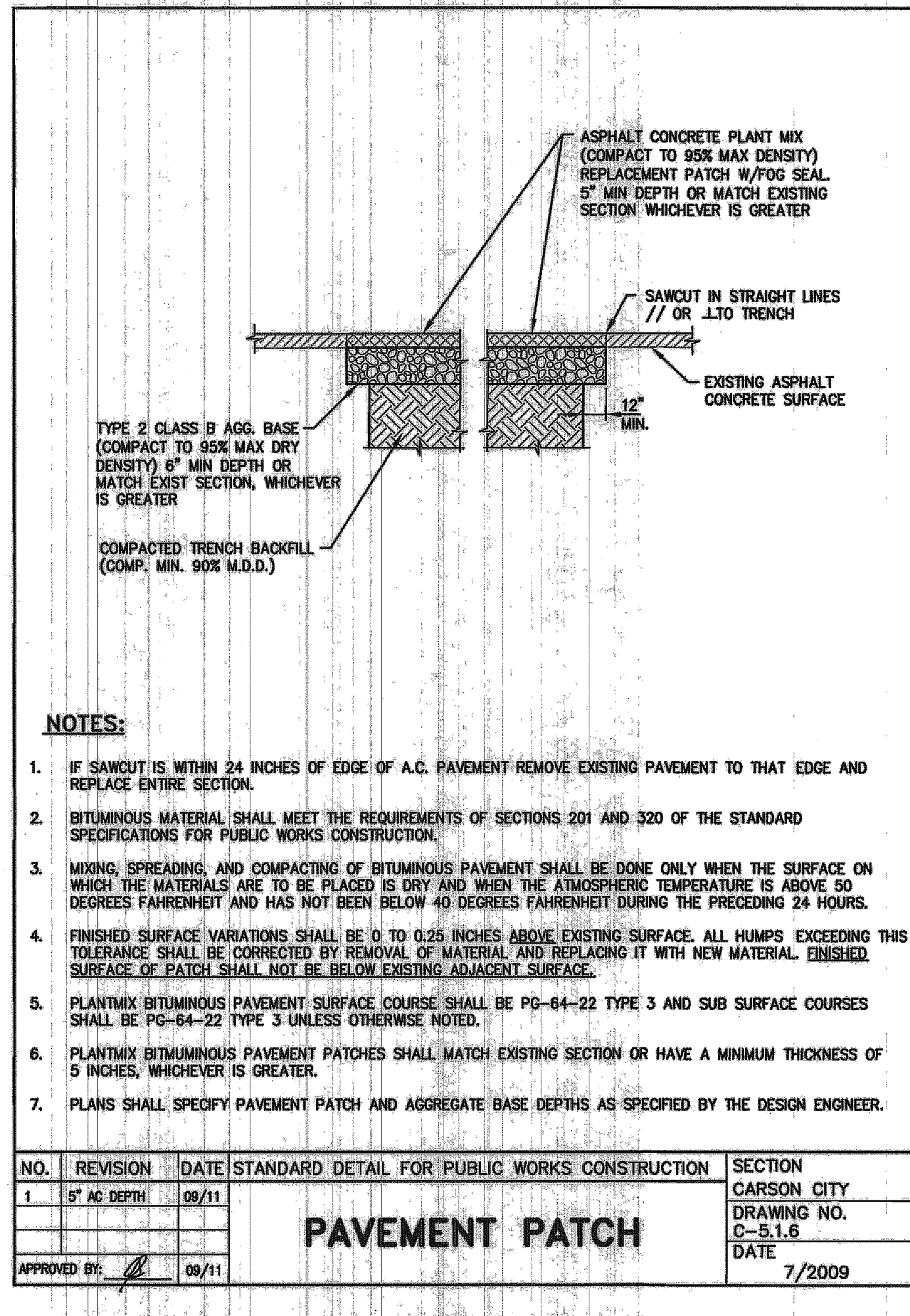
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				CARSON CITY
				DRAWING NO. C-5.1.1 (312)
				DATE 7/2009



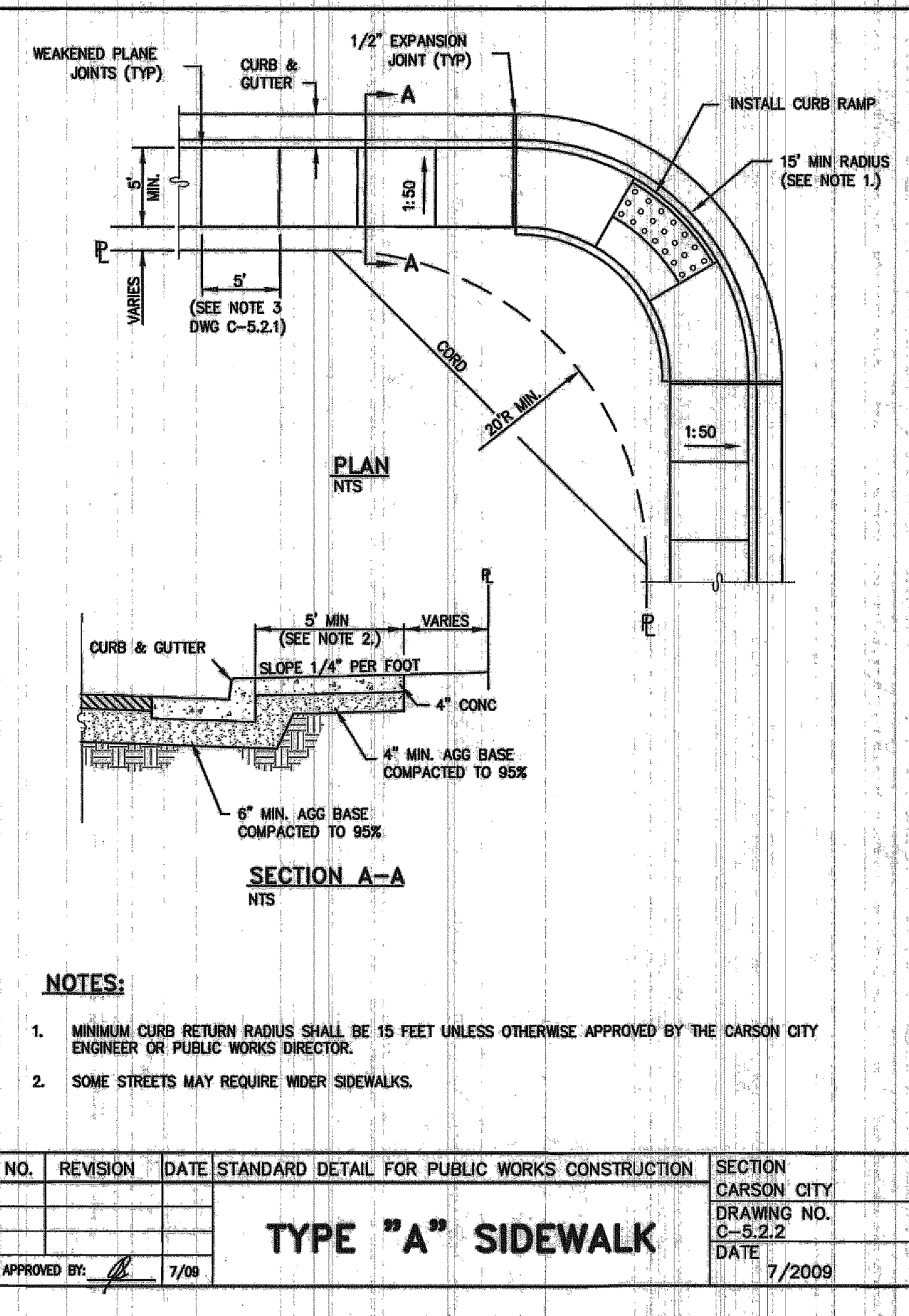
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				CARSON CITY
				DRAWING NO. C-5.1.2
				DATE 7/2009



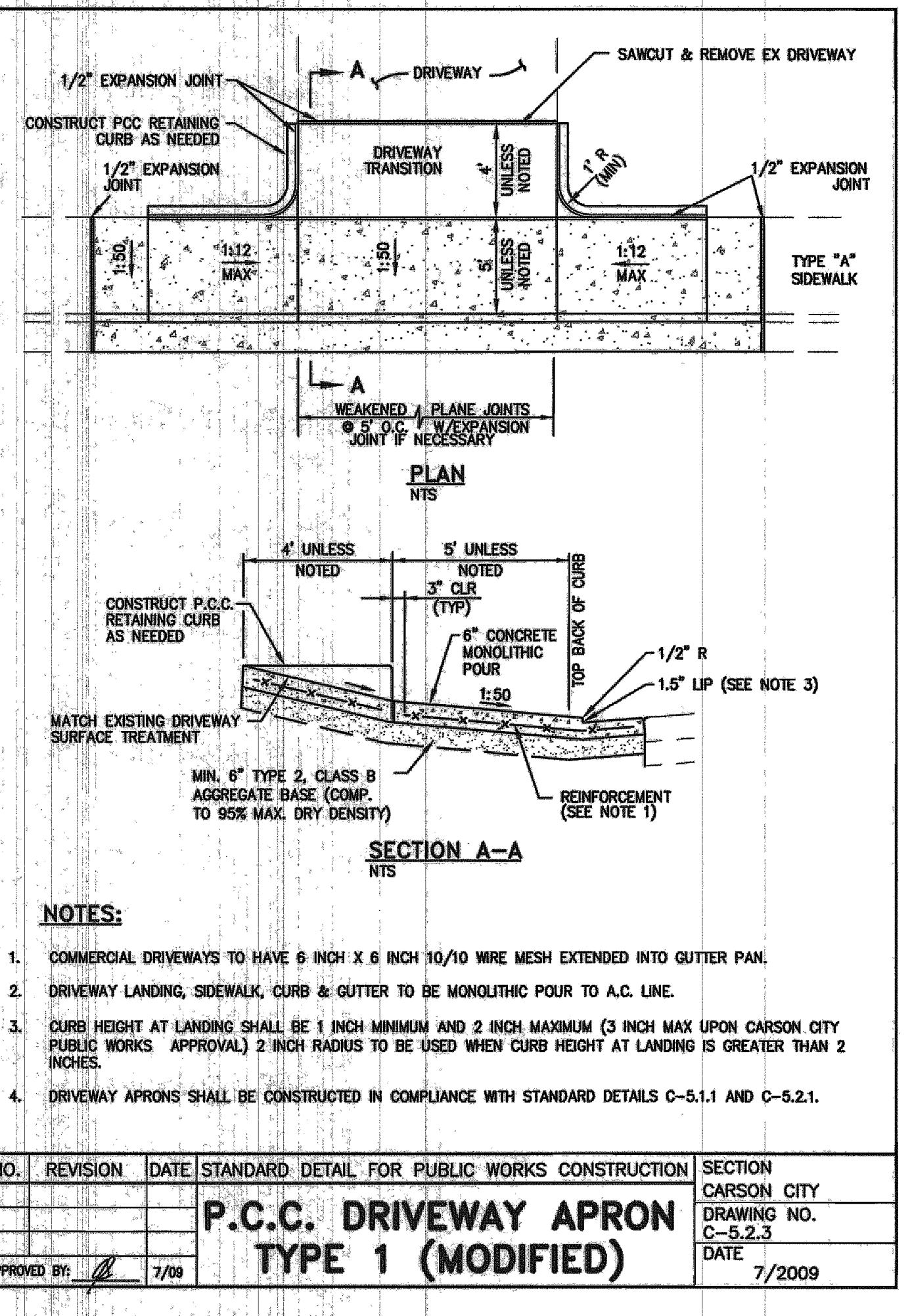
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
				DRAWING NO. C-5.1.3
				DATE 7/2009



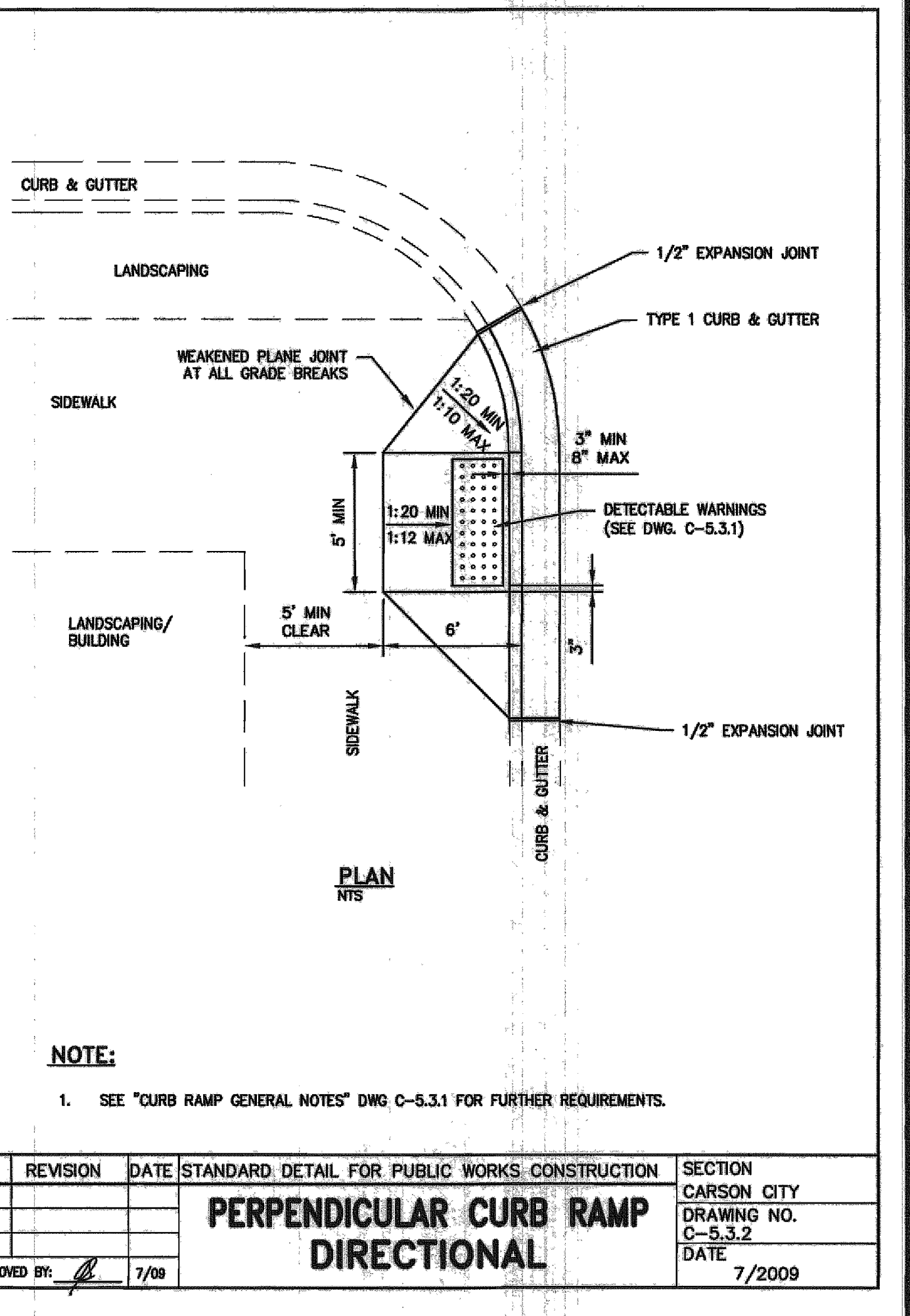
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
				DRAWING NO. C-5.1.6
				DATE 7/2009



NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
				DRAWING NO. C-5.2.2
				DATE 7/2009



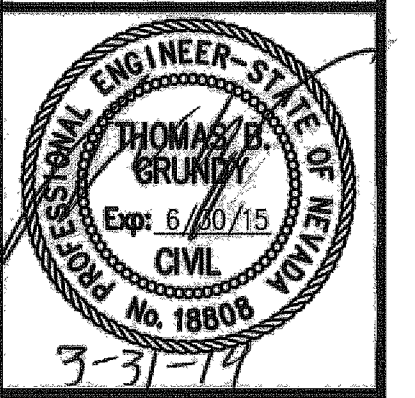
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
				DRAWING NO. C-5.2.3
				DATE 7/2009



NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
				DRAWING NO. C-5.3.2
				DATE 7/2009

DESIGNED BY: DGR
 DRAWN BY: DGR
 CHECKED BY: TBG
 DWG NO.: 4-1890-01-261.mls.dwg
 SCALE (HORIZ): AS NOTED
 SCALE (VERT): N/A
 PLOT DATE: 3/31/14

CARSON CITY PUBLIC WORKS DEPARTMENT
 3505 BUTTI WAY CARSON CITY, NEVADA 89701
 PH: 887-2355 FAX: 887-2112

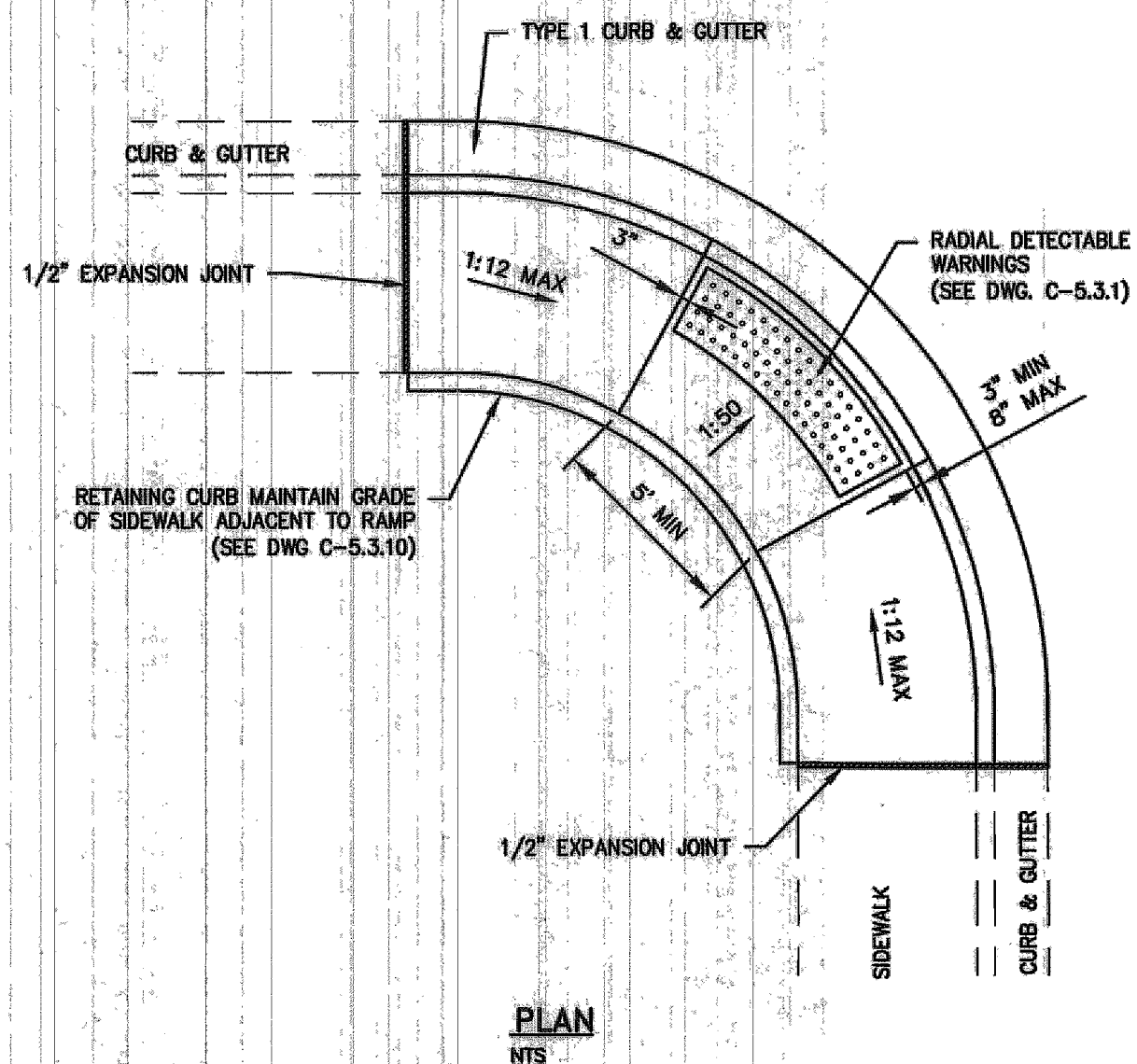


BY	APP'D	DESCRIPTION	REV.	DATE

EAST/WEST WATER TRANSMISSION MAIN PROJECT - PHASE 2A-1 PROJECT No. 4-0900 CONSTRUCTION DETAILS

SHEET **C17** OF **31**

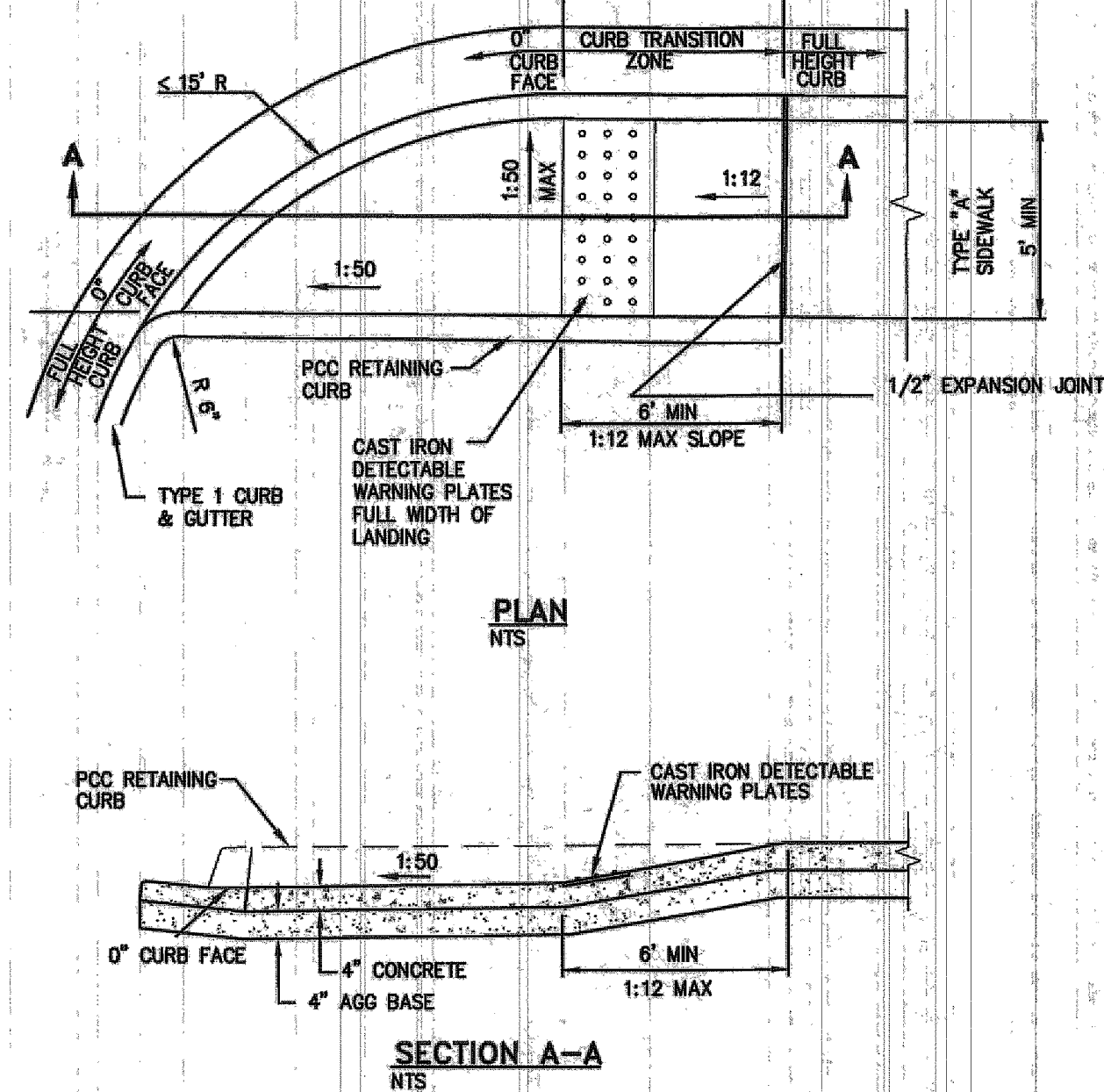
FOR BIDDING PURPOSE ONLY



NOTES:

1. NOT FOR USE WITH OFFSET SIDEWALKS.
2. RETAINING CURBS ARE TO BE USED IN ALL CASES AND FINISH GRADE AT BACK OF SIDEWALK IS TO BE RAISED TO TOP OF RETAINING CURB ELEVATION.
3. SEE "CURB RAMP GENERAL NOTES" DWG C-5.3.1 FOR FURTHER REQUIREMENTS.

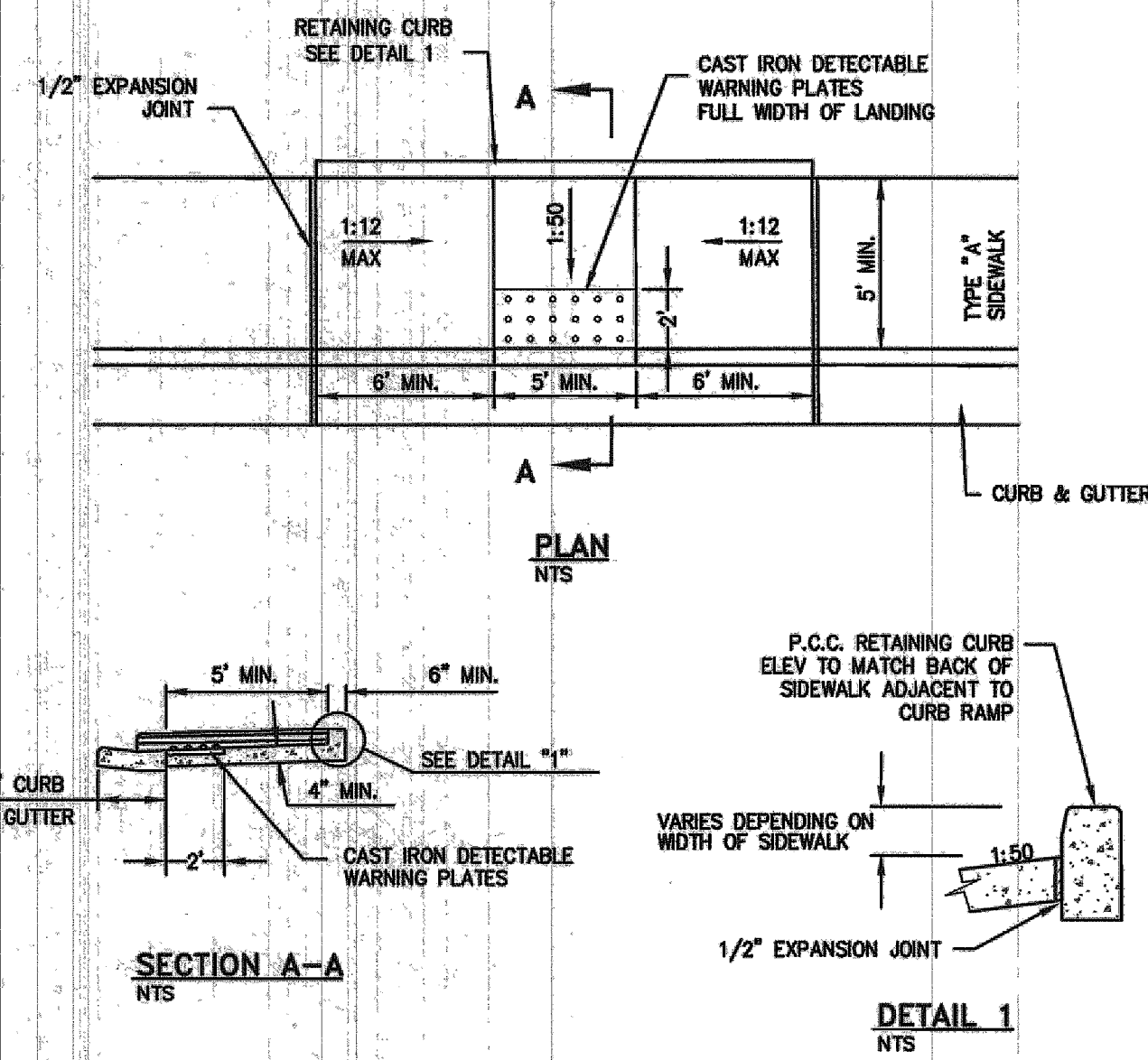
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			PARALLEL CURB RAMP APEX	CARSON CITY
				DRAWING NO. C-5.3.5
				DATE 7/2009
APPROVED BY: [Signature] 7/09				



NOTES:

1. LINEAR SINGLE TRANSITION CURB RAMP TO BE USED ONLY AT RETURNS HAVING LESS THAN A 15 FOOT RADIUS.
2. NOT FOR USE WITH OFFSET SIDEWALKS.
3. RETAINING CURBS ARE TO BE USED IN ALL CASES AND EXISTING GRADE AT BACK OF SIDEWALK IS TO BE RAISED TO TOP OF RETAINING CURB ELEVATION.
4. SEE "CURB RAMP GENERAL NOTES" DWG C-5.3.1 FOR FURTHER REQUIREMENTS.

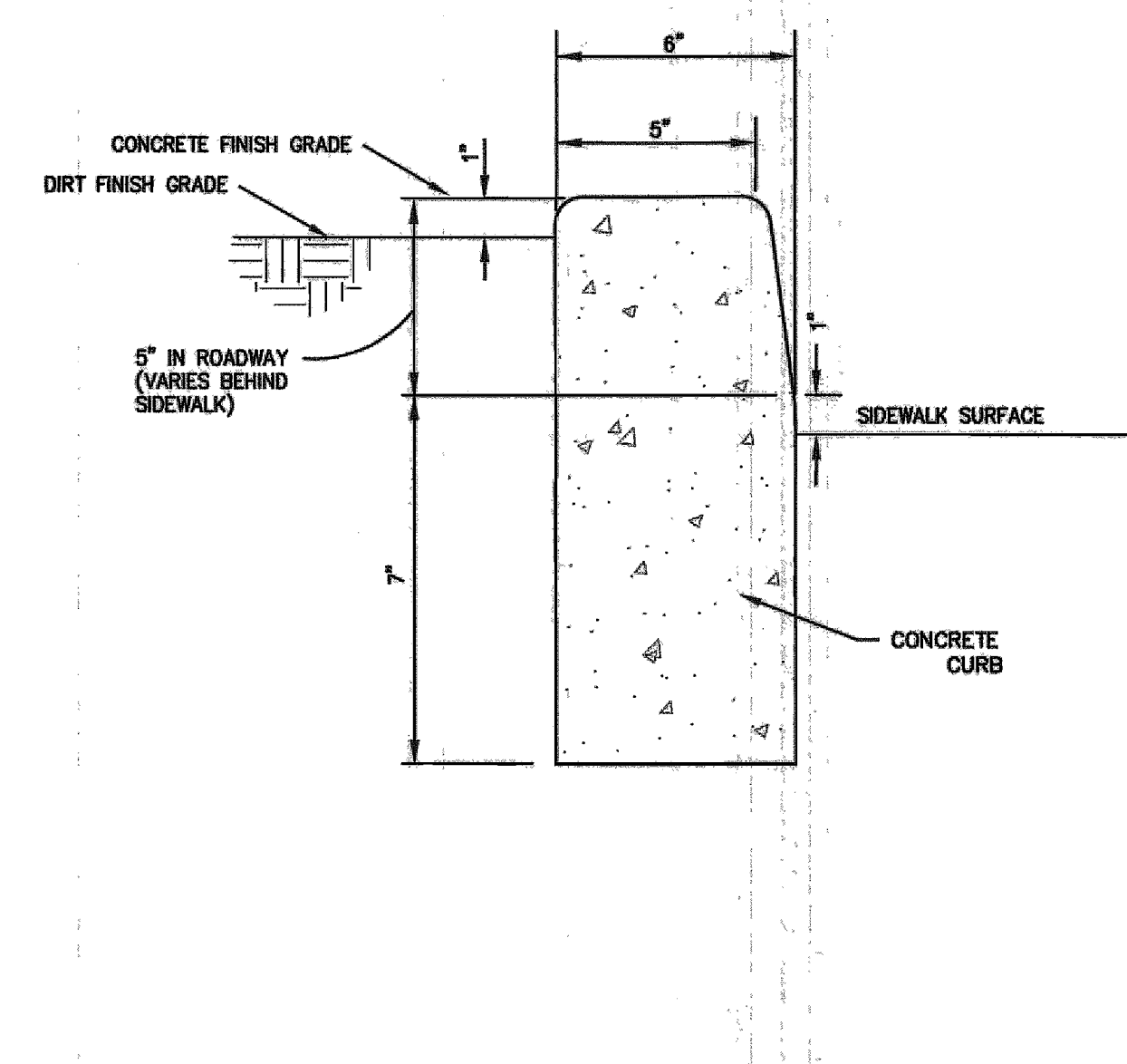
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			LINEAR CURB RAMP SINGLE ADJACENT	CARSON CITY
				DRAWING NO. C-5.3.6
				DATE 7/2009
APPROVED BY: [Signature] 7/09				



NOTES:

1. RETAINING CURB TO BE USED IN ALL CASES. MAINTAIN SLOPE OF SIDEWALK OUTSIDE OF CURB RAMP.
2. SEE "CURB RAMP GENERAL NOTES" DWG C-5.3.1 FOR FURTHER REQUIREMENTS.

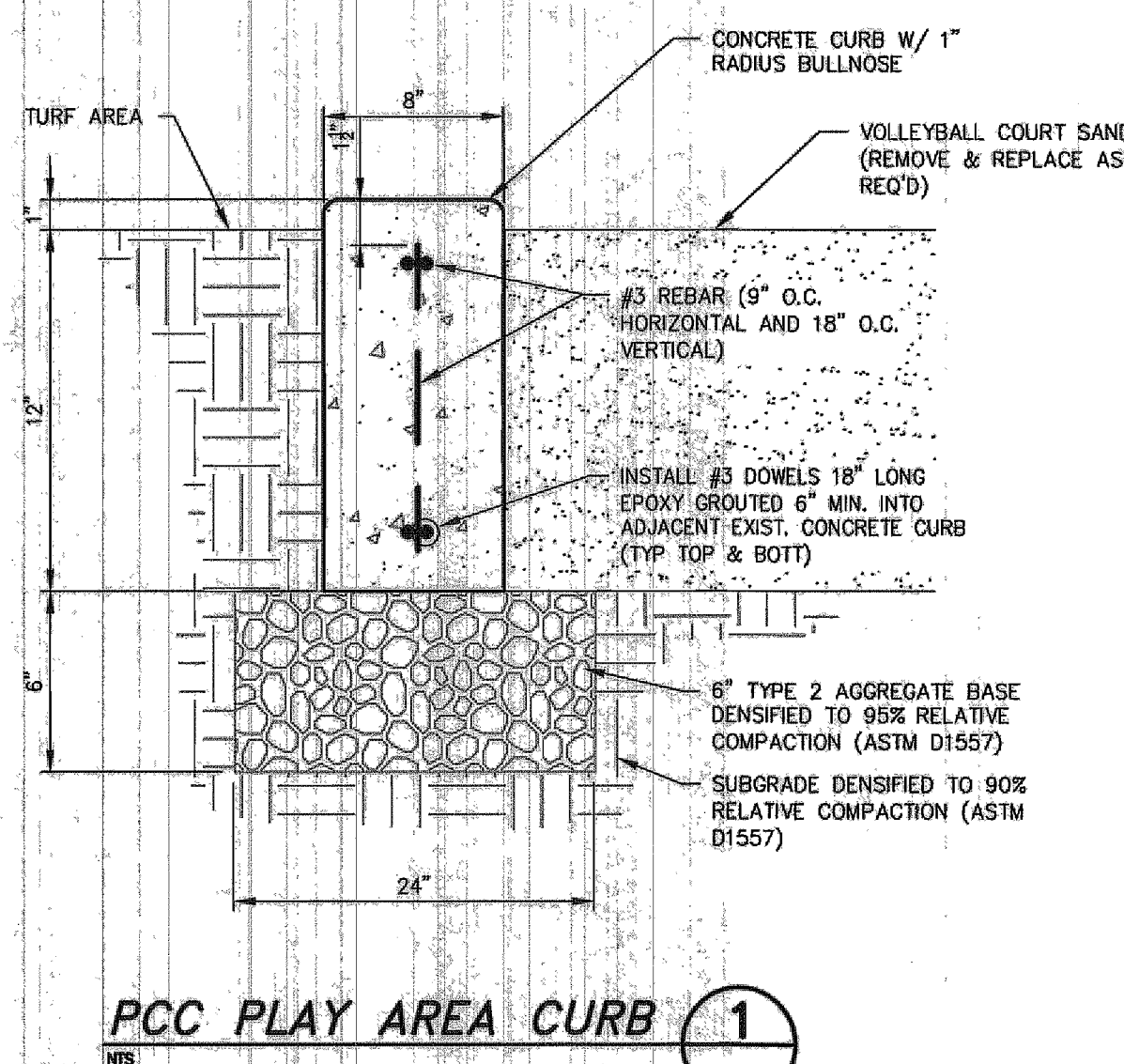
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			MID BLOCK CURB RAMP	CARSON CITY
				DRAWING NO. C-5.3.9
				DATE 7/2009
APPROVED BY: [Signature] 7/09				



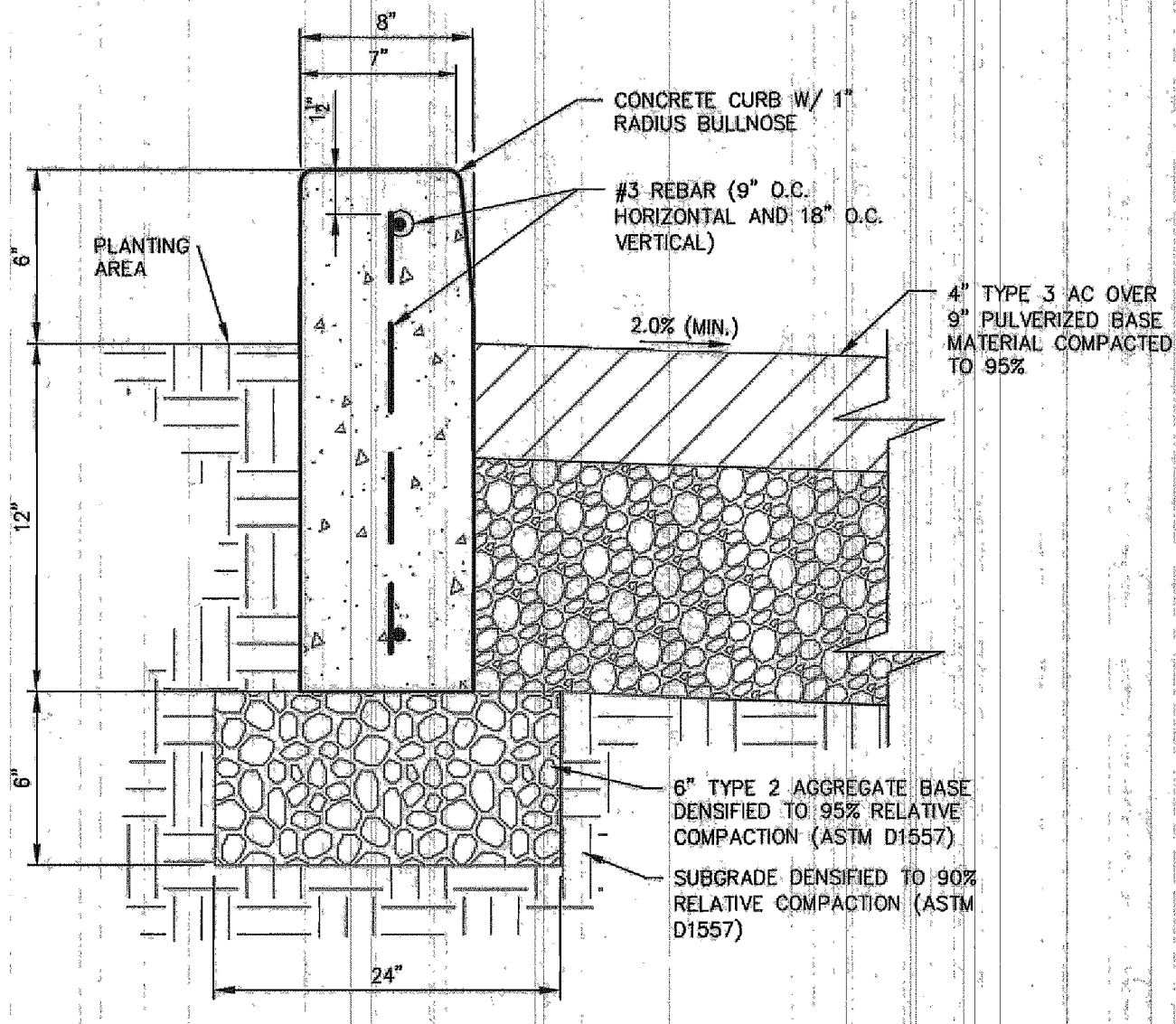
NOTES:

1. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY CARSON CITY PUBLIC WORKS
2. ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DETAIL 5.1.1 AND CONFORM TO SEC. 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).

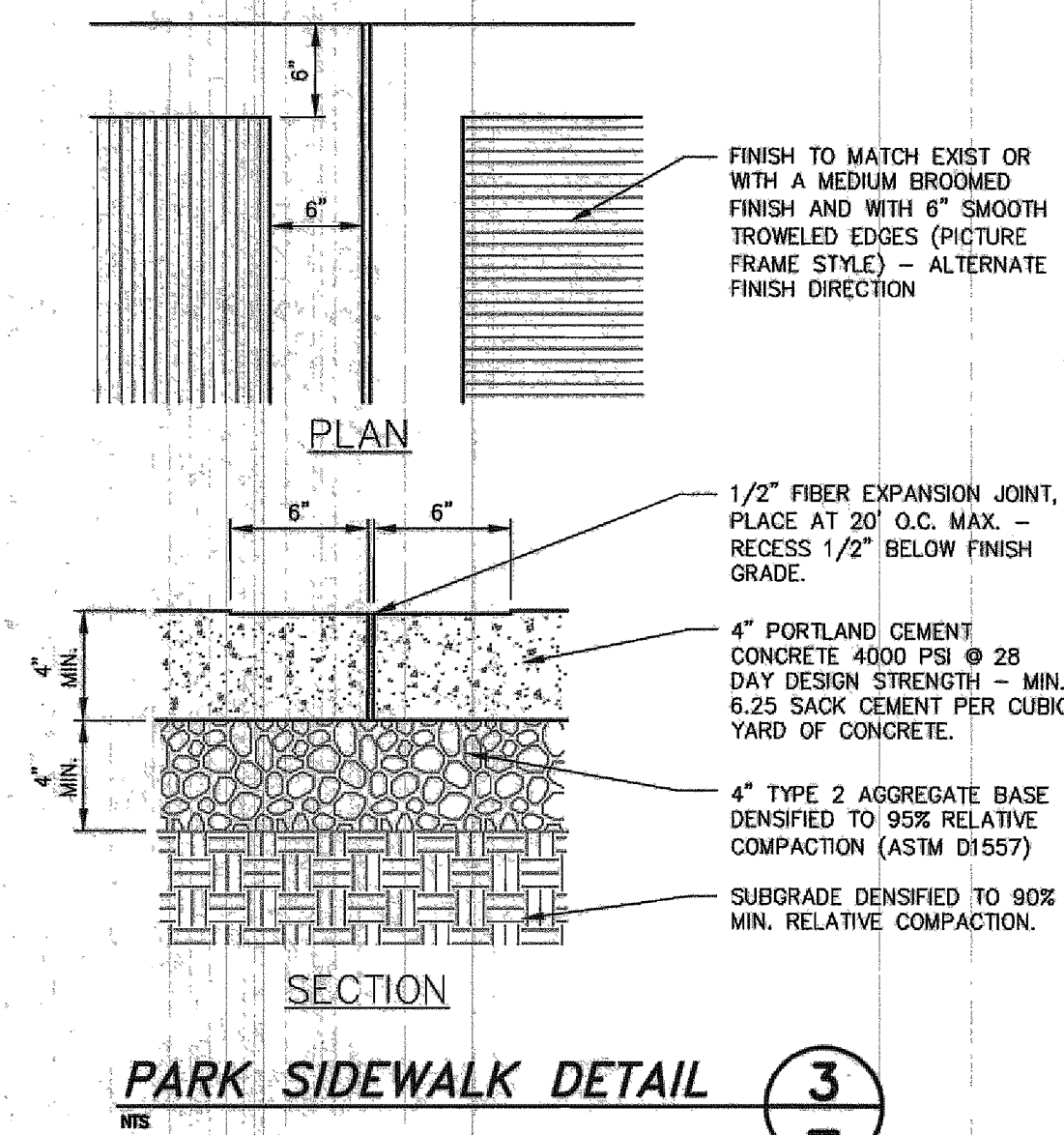
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			P.C.C. RETAINING CURB	CARSON CITY
				DRAWING NO. C-5.3.10
				DATE 7/2009
APPROVED BY: [Signature] 7/09				



PCC PLAY AREA CURB 1



TREE RING CURB 2



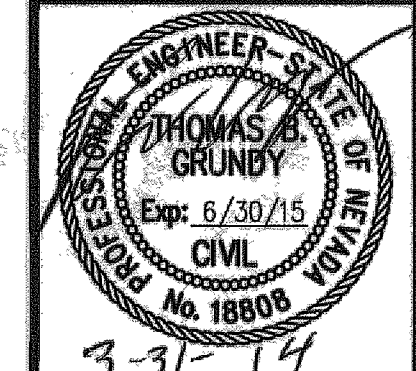
PARK SIDEWALK DETAIL 3

NOTES:

1. CONCRETE REINFORCING SHALL CONSIST OF COLLATED, FIBRILLATED POLYPROPYLENE FIBERS AS MFD. BY FIBER MESH OR APPROVED EQUAL. ADD 1 1/2 LBS. FIBER MESH PER CUBIC YARD OF CONCRETE.
2. CONSTRUCTION PERSONNEL SHALL NOT DRIVE VEHICLES OF ANY SIZE OR TYPE OVER SIDEWALK UNTIL CONCRETE HAS ACHIEVED REQ'D 28 DAY DESIGN STRENGTH. CONTRACTOR TO PROTECT.
3. ALL CONCRETE SHALL BE "CITY MIX" FROM CAPITAL CITY CONCRETE OR AN APPROVED EQUAL.

DESIGNED BY: DGR
 DRAWN BY: DGR
 CHECKED BY: TEG
 DWG NO.: 4-0900-00-201-001-001-001
 SCALE (HORIZ): AS NOTED
 SCALE (VERT): N/A
 PLOT DATE: 11/6/2013

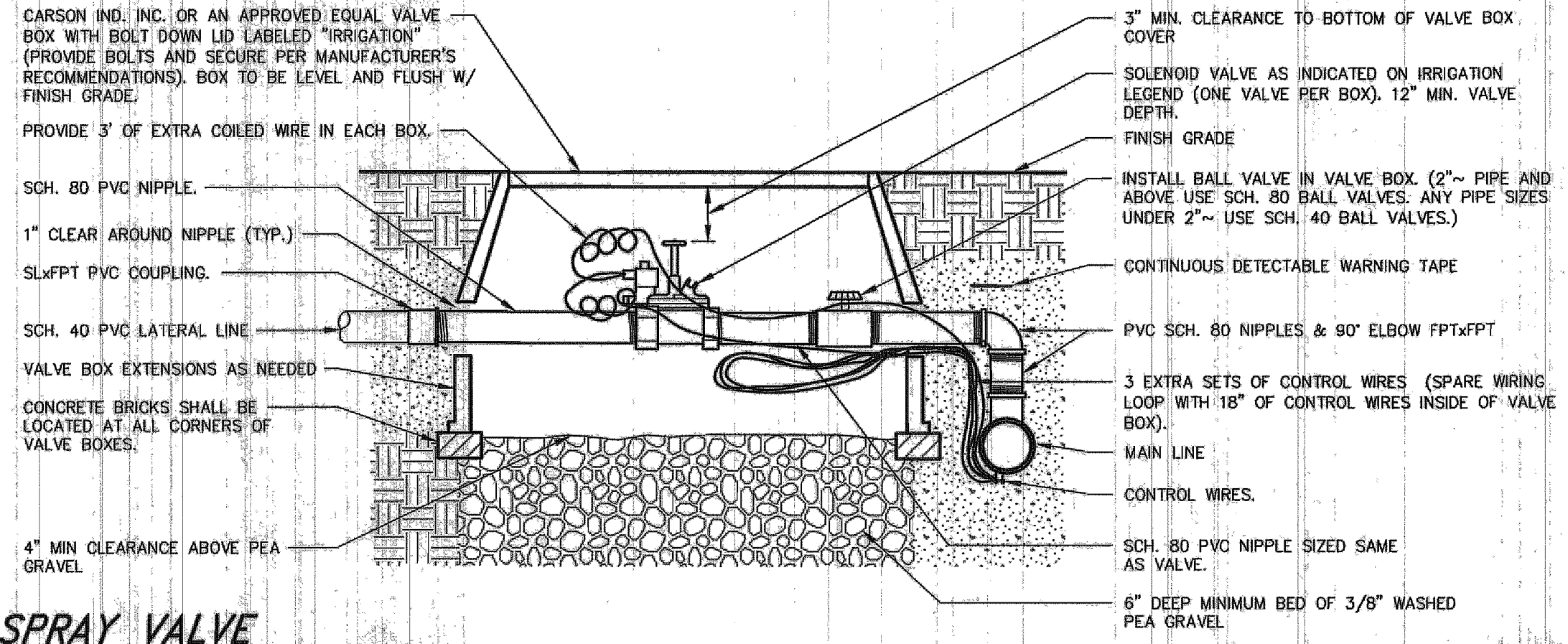
CARSON CITY PUBLIC WORKS DEPARTMENT
 3505 BUTTE WAY CARSON CITY, NEVADA 89701
 PH: 887-2355 FAX: 887-2112



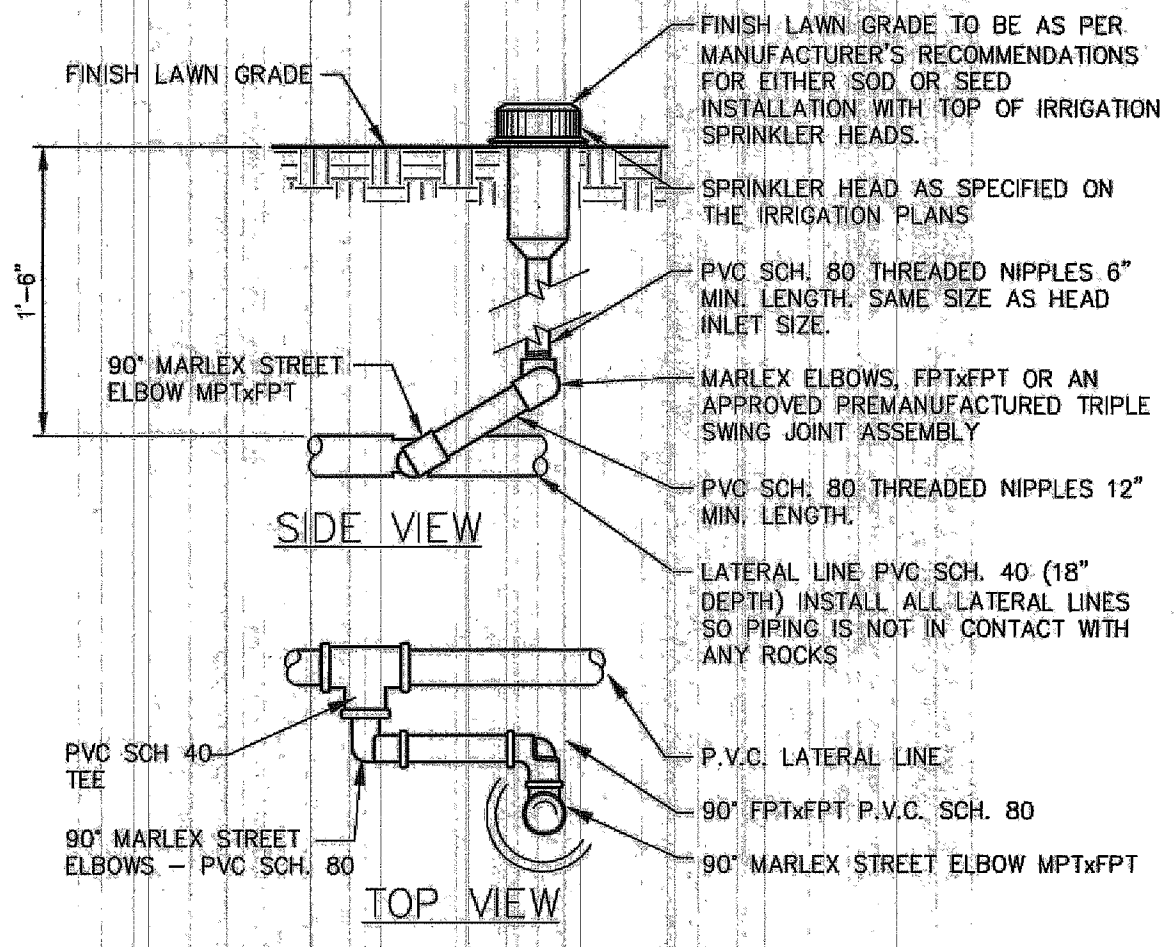
BY	APP'D	DESCRIPTION	REV.	DATE

EAST/WEST WATER TRANSMISSION MAIN PROJECT - PHASE 2A-1 PROJECT No. 4-0900 CONSTRUCTION DETAILS

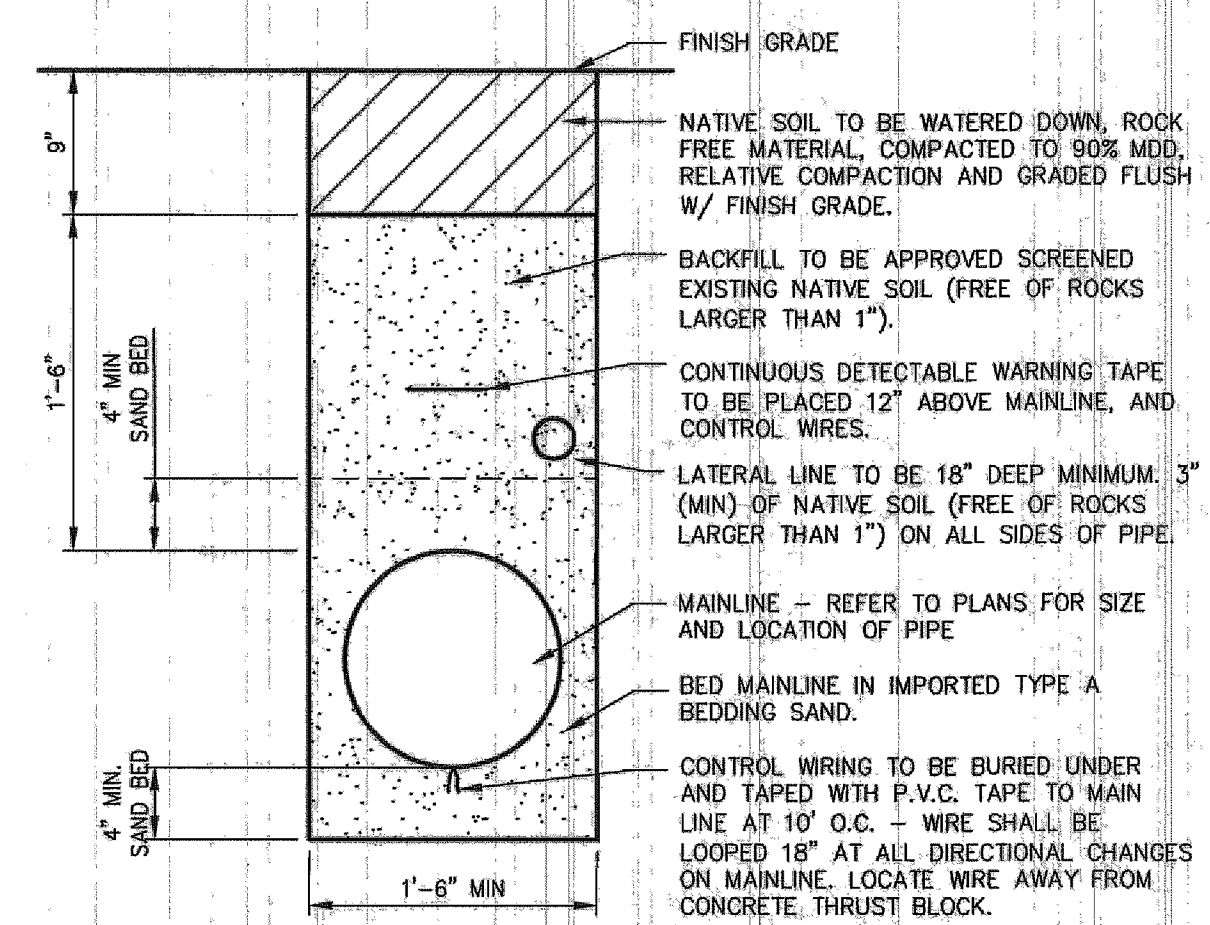
FOR BIDDING PURPOSE ONLY



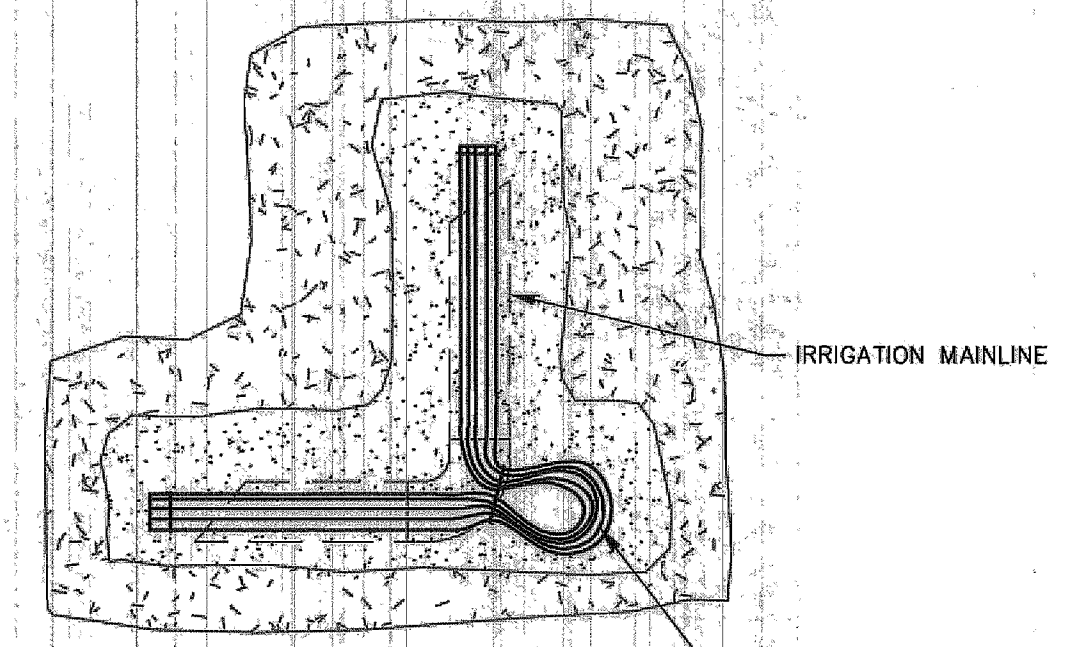
1 SPRAY VALVE
 SPRAY-VALVE 10/2000 NOT TO SCALE



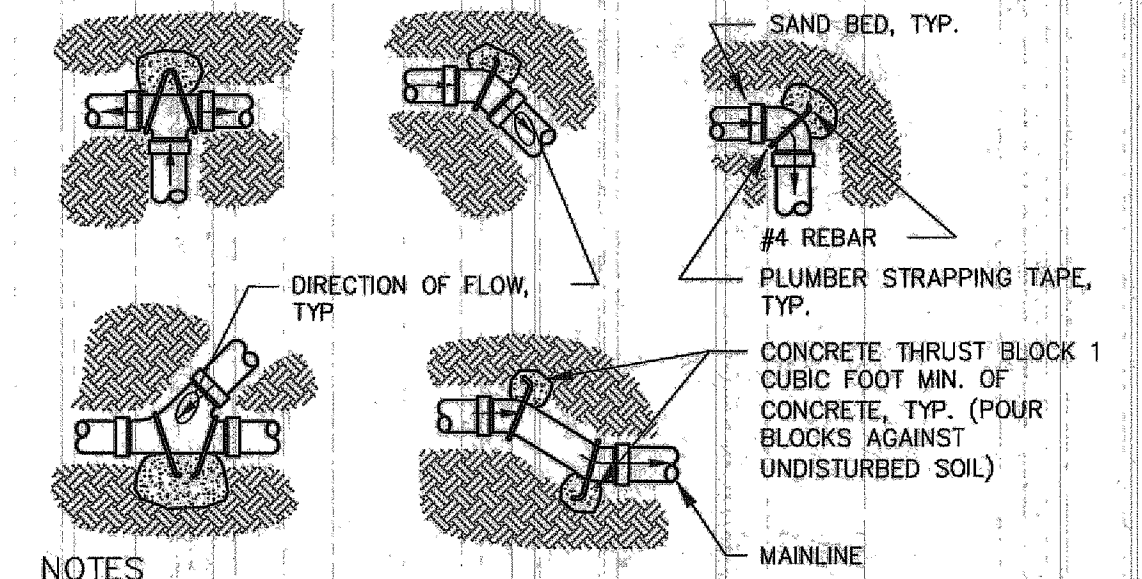
2 ROTOR/POP-UP HEAD
 ROTOR 10/2000 NOT TO SCALE



3 TRENCH WALL SECTION
 TRENCH1 10/2000 NOT TO SCALE

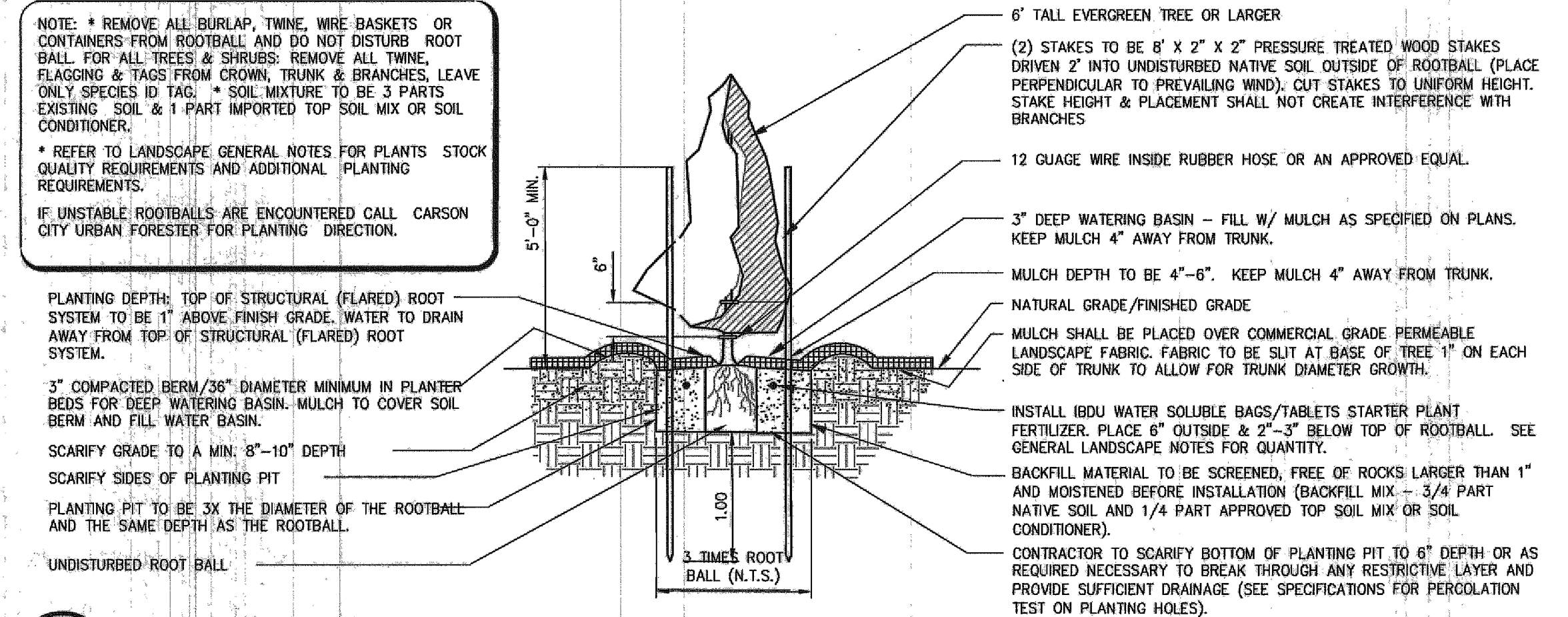


4 CONTROLLER WIRING
 CONTROLLER WIRING 10/2000 NOT TO SCALE

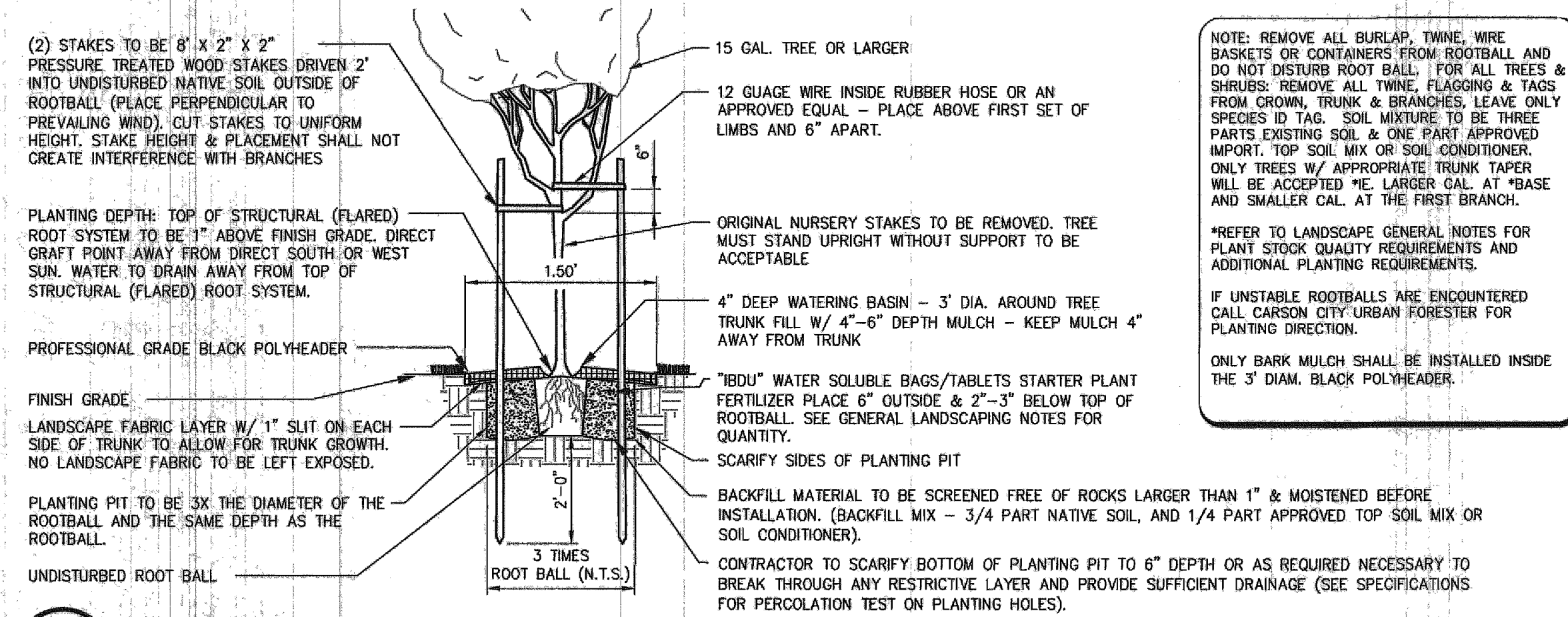


5 THRUST BLOCK DETAIL
 THRUST2 10/2000 NOT TO SCALE

- NOTES**
1. ALL MAINLINES TO BE INSTALLED AND TESTED ACCORDING TO THE GENERAL IRRIGATION NOTES.
 2. TRENCH DEPTH & WIDTH SHALL BE AS SHOWN ON TRENCH DETAILS.
 3. ATTACH MAINLINE PIPE TO ALL CONCRETE THRUST BLOCKS AT ALL DIRECTIONAL CHANGES SO THAT NO MAINLINE MOVEMENT WILL OCCUR. ALL PIPE JOINTS & FACE OF PLUGS TO BE KEPT CLEAR OF CONCRETE.
 4. THRUST BLOCKS TO BE CONSTRUCTED OF 3000 P.S.I. CONCRETE.
 5. THRUST BLOCKS NOT REQUIRED ON 1 1/2" DIAMETER MAINLINE OR LESS.



6 EVERGREEN TREE PLANTING DETAIL
 L2F05 10/2000 NOT TO SCALE

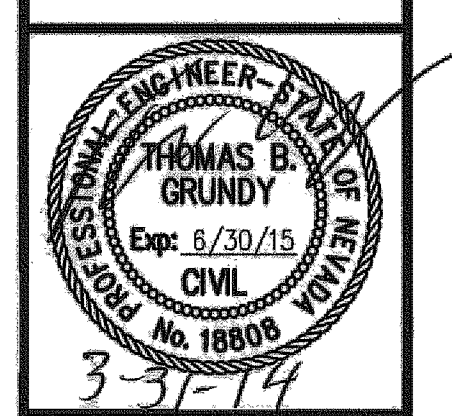


7 DECIDUOUS TREE PLANTING DETAIL IN LAWN
 L2F06 10/2000 NOT TO SCALE

H:\PROJECTS\0900 E-W Transmission Main Phase 2\Drawings\1-0900 P1-241 MAIN PK LOTS.dwg 3/21/2014

DESIGNED BY: DGR
 DRAWN BY: DGR
 CHECKED BY: TEG
 DWG NO.: 1-0900 P1-241 main pk lots
 SCALE (HORIZ): 1"=30'
 SCALE (VERT): 1"=3'
 DATE: 3/21/2014

CARSON CITY PUBLIC WORKS DEPARTMENT
 3505 BUTTI WAY CARSON CITY, NEVADA 89701
 PH: 887-2355 FAX: 887-2112



REV.	DATE	DESCRIPTION	BY	APP'D

EAST/WEST WATER TRANSMISSION MAIN PROJECT - PHASE 2A-1
 PROJECT No. 4.0900
LANDSCAPE & IRRIGATION DETAILS

FOR BIDDING PURPOSE ONLY