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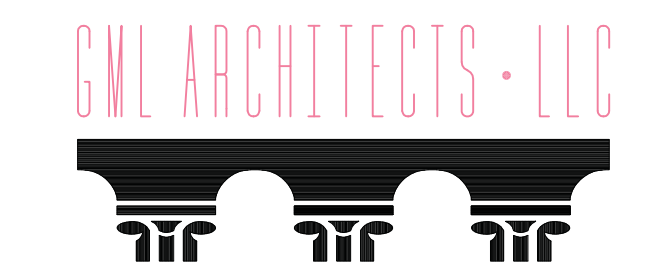
OWNER

CARSON CITY PUBLIC WORKS  
 3505 Butti Way  
 Carson City, NV 89701  
 Phone (775) 283-7584  
 Fax (775) 887-2112

# CARSON CITY FLEET MAINTENANCE FACILITY EXPANSION Carson City, Nevada

DEFERRED SUBMITTALS:  
 METAL BUILDING  
 FIRE SPRINKLER SYSTEM  
 FIRE ALARM SYSTEM

## Conformed Set



architects & planners  
 1575 DELUCCHI LN SUITE 120  
 RENO • NEVADA 89502  
 P • 775 • 829 • 8814  
 F • 775 • 829 • 8828

**HYTTINEN ENGINEERING**  
 structural engineers

**AINSWORTH & ASSOCIATES**  
 mechanical engineers

**PK ELECTRICAL**  
 electrical engineers

DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DWG NO.: \_\_\_\_\_  
 SCALE (HORIZ): \_\_\_\_\_  
 SCALE (VERT): \_\_\_\_\_

CARSON CITY  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 887-2355 FAX: 887-2164

CARSON CITY FLEET MAINTENANCE  
 FACILITY EXPANSION

REV.	DATE	DESCRIPTION	BY	APP'D

SHEET  
**COVER**

## Architectural Abbreviations

<b>A</b>	A.B. Anchor Bolt A.C. Asphaltic Concrete A.D.A. Americans with Disabilities Act ADJ. Adjustable A.F.F. Above Finish Floor AGGR. Aggregate AL. Aluminum ALT. Alternate APPROX. Approximate ARCH. Architect or Architectural	<b>D.S.</b> Downspout <b>DWC.</b> Drawing <b>DWR.</b> Drawer <b>DWS'S</b> Drawings	<b>E</b>	(E) Existing E.A. East EIFS Exterior Insulation Finish System EL. Elevation ELEC. Electrical ELEV. Elevation E.M.H.O. Electro-Magnetic door Hold Open device E.N. Edge Nail ENCL. Enclosure ENG. Engineer ENT. Entrance E.P. Electrical Panel EQ. Equal EQUIP. Equipment EST. Estimate or Estimated E.W.C. Electric Water Cooler EXH. Exhaust EXIST. Existing EXP. Expansion EXP.JT. Expansion Joint EXPO. Exposed EXT. Exterior	<b>G</b>	GEN. General GA. Gauge GALV. Galvanized G.B. Grab Bar G.F.C.I. Ground Fault Circuit Interrupt G.I. Glass or Glaze G.L.B. Glue-Laminated Beam G.L.U.-LAM. Glue-Laminated GND. Ground GR. Grade G.W.B. Gypsum Wall Board GYP. BD. Gypsum Board	<b>MIR.</b> Mirror <b>MISC.</b> Miscellaneous <b>M.O.</b> Masonry Opening <b>M.S.</b> Machine Screw <b>MTD.</b> Mounted <b>MTL.</b> Metal <b>MULL.</b> Mullion	<b>N</b>	(N) New N. North N.I.C. Not in Contract NO. or # Number NOM. Nominal N.T.S. Not To Scale	<b>O</b>	OBS. Obscure O.C. On Center O.D. Outside Diameter O.F.C.I. Owner Furnished Office Contractor Installed OFF. O.F.O.I. Owner Furnished Office O.H. Overhead OPNG. Opening OPP. Opposite O.R.D. Overflow Roof Drain O.T.S. Open To Structure	<b>P</b>	PART. Partition PART. BD. Particle Board PL. Plate PLAS. Plaster PLAS.LAM. Plastic Laminate PL-GL. Plate Glass PLYWD. Plywood PNL. Panel PR. Pair PRCST. Precast P.T. Pressure Treated PT. Point P.V.C. Polyvinyl Chloride P.T.R. Paper Towel Receptacle P.T.D. Paper Towel Dispenser	<b>R</b>	R. Riser RAD. Radius R.B. Resilient Base R.D. Roof Drain RE. Refer to: RECOM. Recommended REF. Reference	<b>S</b>	S. South S.B. Splash Block S.C.D. Seat Cover Dispenser SCHED. Schedule SCUP. Scupper S.C.W.D. Solid Core Wood Door S.D. Soap Dispenser SECT. Section S.F. Square Feet S.F.E.X. Surface Mounted Fire Extinguisher and Cabinet S.G.L. Solar Glass SHT. Shelf SHWR. Shower SIM. Similar S.M.S. Sheet Metal Screws S.N.D. Sanitary Napkin Dispenser S.N.R. Sanitary Napkin Receptacle SPEC. Specification SQ. Square S.S. Semi-Flush S.S.T.L. Stainless Steel S.SURF. Solid Surfacing STA. Station STD. Standard STL. Steel STOR. Storage S. to S. Stud to Stud STRUCT. Structural SUSP. Suspended S.W. Shear Wall S.W & V. Soil, Waste and Vent SYM. Symmetrical S&P. Shelf and Pole	<b>T</b>	T. Tread T.B. Tack Board T.C. Top of Curb T.D. Tissue Dispenser TEL. Telephone	<b>TEMP.</b> Tempered or Temporary <b>TERR.</b> Terrace <b>T.H.</b> Towel Hook <b>THK.</b> Thick <b>THRESH.</b> Threshold <b>T.O.B.</b> Top of Beam <b>T.O.P.</b> Top of Plate <b>T.P.</b> Toilet Partition <b>TRANS.</b> Transformer <b>T.S.</b> Tube Steel <b>T.V.</b> Toilet Vent <b>T.W.</b> Top of Wall <b>TYP.</b> Typical <b>T.&amp;B.</b> Top & Bottom <b>T.&amp;G.</b> Tongue & Groove	<b>U</b>	U.H. Unit Heater U.L. Underwriters Laboratory Unless Noted Otherwise U.N.O. Unless Noted Otherwise	<b>V</b>	V.C.T. Vinyl Composition Tile VERT. Vertical VEST. Vestibule V.T. Vinyl Tile V.W.C. Vinyl Wall Covering	<b>W</b>	W. West W/W. With W.C. Water Closet WD. Wood W.G.L. Wire Glass W&G. Water and Gas W.H. Water Heater WN. Window WI. Wrought Iron W.I.C. Without WP. Waterproof WR. Waste Receptacle WSC. Wainscot WT. Weight W.W.M. Welded Wire Mesh	<b>Y</b>	YD. Yard Y.D. Yard Drain	<b>Misc. &amp;</b> And
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## Architectural Symbols

<b>Dimension Points</b>		<b>Break Line</b>	
<b>Grid Lines</b>		<b>Center Line</b>	
<b>Detail Indication</b>		<b>Slope</b>	
<b>Detail Indication</b>		<b>Elevation</b>	
<b>Wall Section Indication</b>		<b>Match Line</b>	
<b>Building Section Indication</b>		<b>Wood Framing Interrupted Members</b>	
<b>Plan Cabinet Indication</b>		<b>Wood Framing Continuous Members</b>	
<b>Room Number</b>		<b>Finished Wood</b>	
<b>Door Symbol</b>		<b>Marble</b>	
<b>Window Elevation</b>		<b>Structural Metal</b>	
<b>Equipment Type</b>		<b>Glass</b>	
<b>Access Panel</b>		<b>Plaster</b>	
<b>Ceiling Height</b>		<b>EIFS</b>	
<b>Interior Elevation Indication</b>		<b>Brick or Stone</b>	
<b>Change in Flooring</b>		<b>Concrete Block</b>	
<b>Wall Type</b>		<b>Concrete</b>	
<b>Demolition Legend Reference</b>		<b>Batt, Blanket Insulation (in section)</b>	
<b>Signage</b>		<b>Rigid Insulation</b>	
<b>Change Order Revision Item</b>		<b>Polyurethane Foam</b>	
<b>Addendum Revision Item</b>		<b>Gypsum Board</b>	
<b>Clarification Revision Item</b>		<b>Plywood</b>	
<b>Contractor 'As-Built'</b>		<b>Sound Batts (in plan)</b>	
<b>Splash Block (in plan)</b>		<b>One Hour Wall (in plan)</b>	
<b>North Arrow</b>		<b>One Hour Wall w/ Sound Insulation (in plan)</b>	
<b>Exterior Elevation Indication</b>		<b>Two Hour Wall (in plan)</b>	
		<b>Two Hour Wall w/ Sound Insulation (in plan)</b>	
		<b>Three Hour Wall (in plan)</b>	
		<b>Metal Stud Wall</b>	
		<b>Acoustical Tile</b>	
		<b>Hard Board</b>	
		<b>Asphalt (in section)</b>	
		<b>Particle Board / MDF</b>	

## Vicinity Map



NO SCALE

## Basis of Design

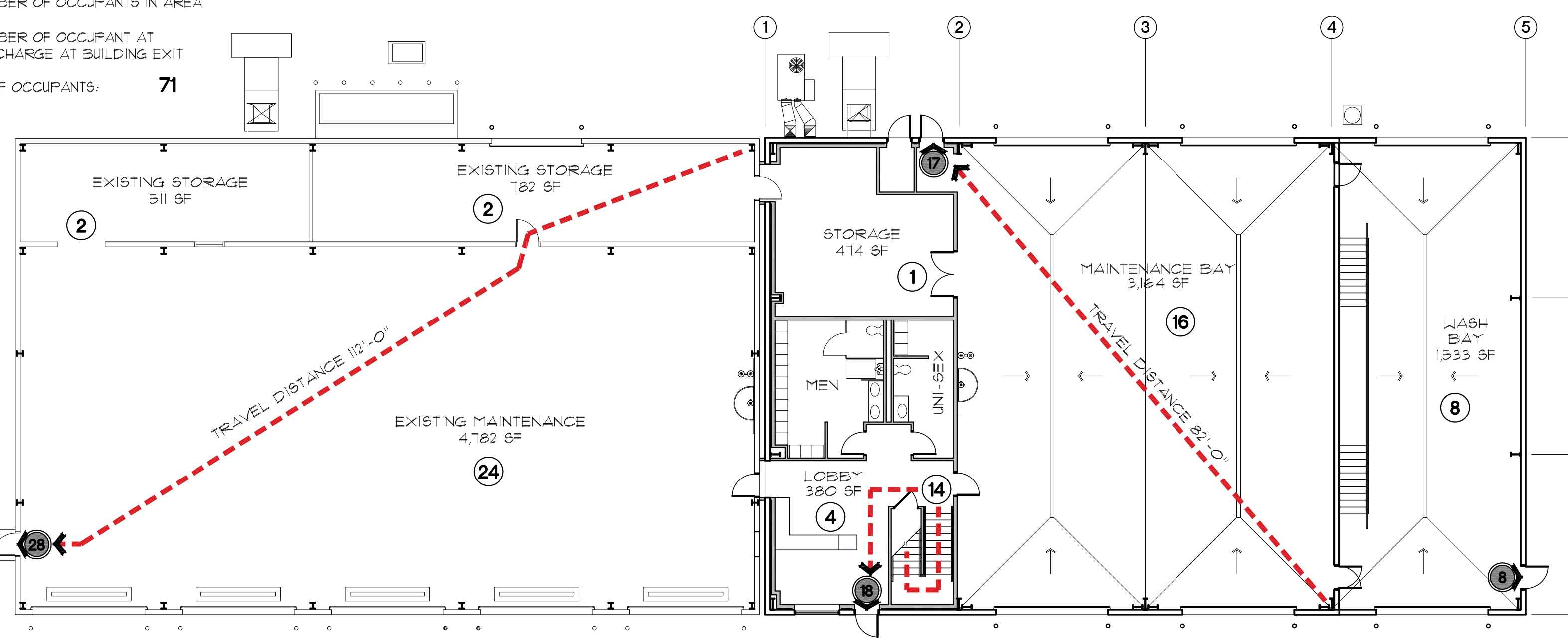
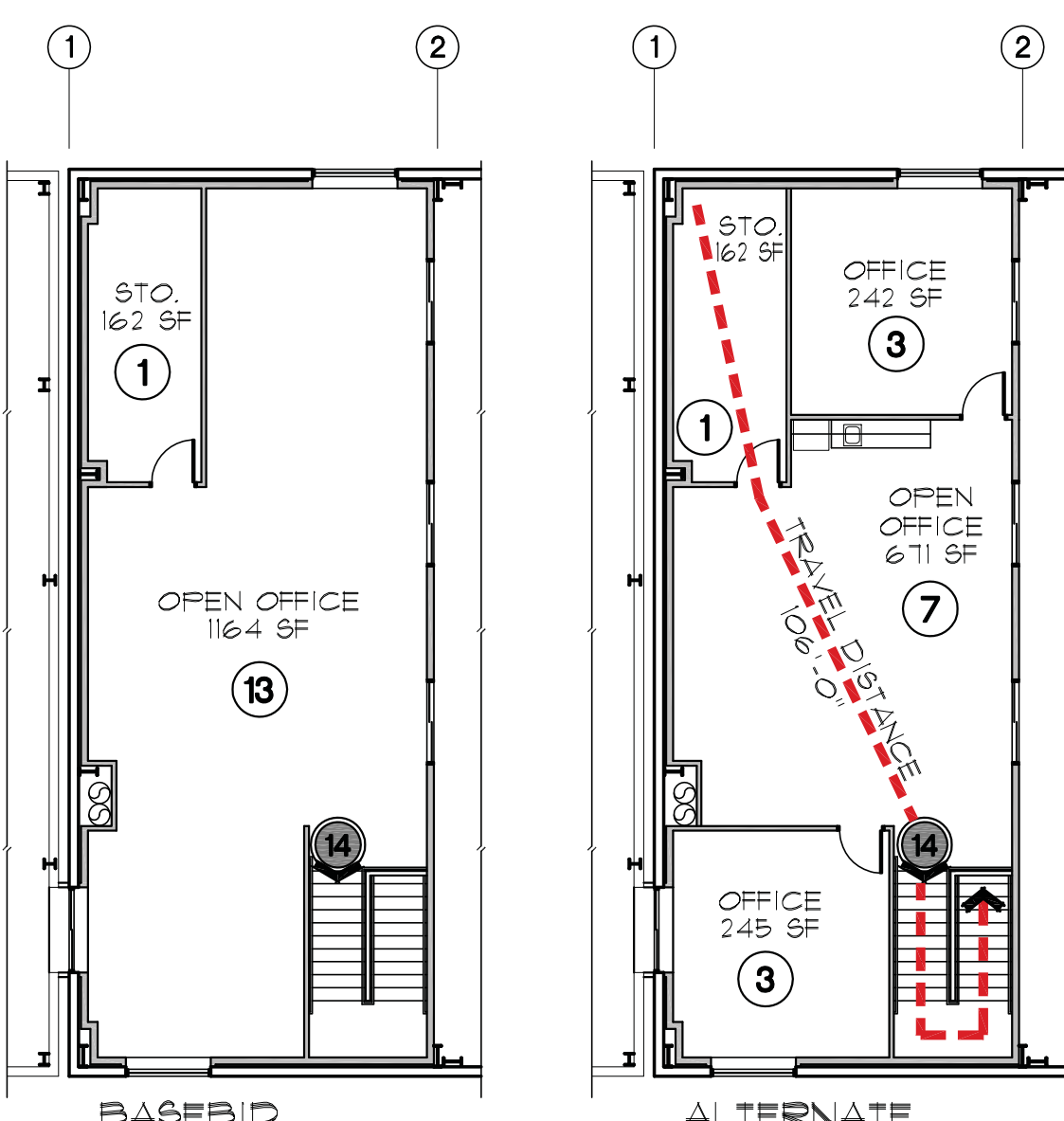
2012 I.B.C., 2012 UPC, 2012 UMC,  
2011 NEC, 2009 IECC AND 2012 IFG

Maintenance Facility	B/S1
Occupancy Group	V-B
Type of Construction	V-B
Allowable Floor Area (Table 503)	9,000 S.F.
Increase for Sprinkler System (Section 506.3)	18,000 S.F.
Total Allowable Floor Area	27,000 S.F.
Existing Floor Area	6,090 S.F.
New Addition	6,308 S.F. Main Floor
Total Floor Area	1,344 S.F. Upper Level
Occupant Load	13,742 S.F.
Occupant Load	71
Fire Sprinklers System Requirements	YES, New Addition and Existing Portion of the Building
Required Separations	Non Separated Occupancies Section 508.3.2
Deferred Submittals	Metal Building, Fire Sprinklers and Fire Alarm
Snow Loads	Refer to Structural Sheet S1
Wind Loads	Refer to Structural Sheet S1
Seismic Loads	Refer to Structural Sheet S1
Soils	Refer to Structural Sheet S1

## PROJECT LOCATION

## LEGEND:

- TRAVEL PATH TO EXIT DISCHARGE
- NUMBER OF OCCUPANTS IN AREA
- NUMBER OF OCCUPANT AT DISCHARGE AT BUILDING EXIT
- TOTAL NUMBER OF OCCUPANTS: 71



Upper Level Exit Plan

N.T.S.

Main Level Exit Plan

N.T.S.

## Sheet Index

<b>Cover</b>	<b>MECHANICAL - PLUMBING</b>
A01 General Architectural	M01 Mechanical Legend, Schedules, Notes and Index
<b>CIVIL</b>	M11 Mechanical Demolition Floor Plans
C1 Utility Site Plan	M21 Mechanical Floor Plans
C2 Construction Details	M31 Mechanical Roof Plan
C3 Construction Details	M41 Mechanical Sections
C4 Construction Details	M61 Mechanical Details
<b>ARCHITECTURAL</b>	TC11 Temperature Controls
D1 Demolition Floor Plans	PO1 Plumbing Legend, General Notes, Rough-in and Index
A1 Conceptual Site Plan	P01 Plumbing Demolition Floor Plans
A2.1 Floor Plans	P21 Plumbing Floor Plans
A2.2 Enlarged Plans, Wall Types	P2.2 Enlarged Plumbing Plans
A3 Exterior Elevations	P61 Plumbing Details
A4 Building Sections	
A5 Wall Sections	<b>ELECTRICAL</b>
A6 Wall Sections	E01 Electrical Legend, FA Legend, Detail & Dug Schedule
A7 Roof Plan	E02 One-line Diagrams
A8 Reflected Ceiling Plans	E03 Panel Schedules and Load Calculations
A9 Details	E04 Fixture Schedule and IECC Calculations
A10 Details	E05 Details
<b>STRUCTURAL</b>	E06 Details
S1 Structural Cover Sheet/General Notes	E11 Electrical Demolition Site Plan
S2 Typical Foundation Details	E12 Electrical Site Plan
S3 Typical Wood Framing Details	E21 Demolition Lighting Plan
S4 Foundation/Ground Level Plan	E2.2 Demolition Power and Signal Plan
S5 Second Floor and Roof Framing Plans	E31 Lighting Plans
S6 Sections and Details	E32 Power Plans
S7 Sections and Details	E41 Signal Plans

**GML ARCHITECTS - LLC**  
architects & planners  
1575 DELUCCHI LN. SUITE 120  
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F - 775 - 829 - 8828

JOHN D. GANTNER  
REGISTERED  
No. 1314  
ARCHITECT

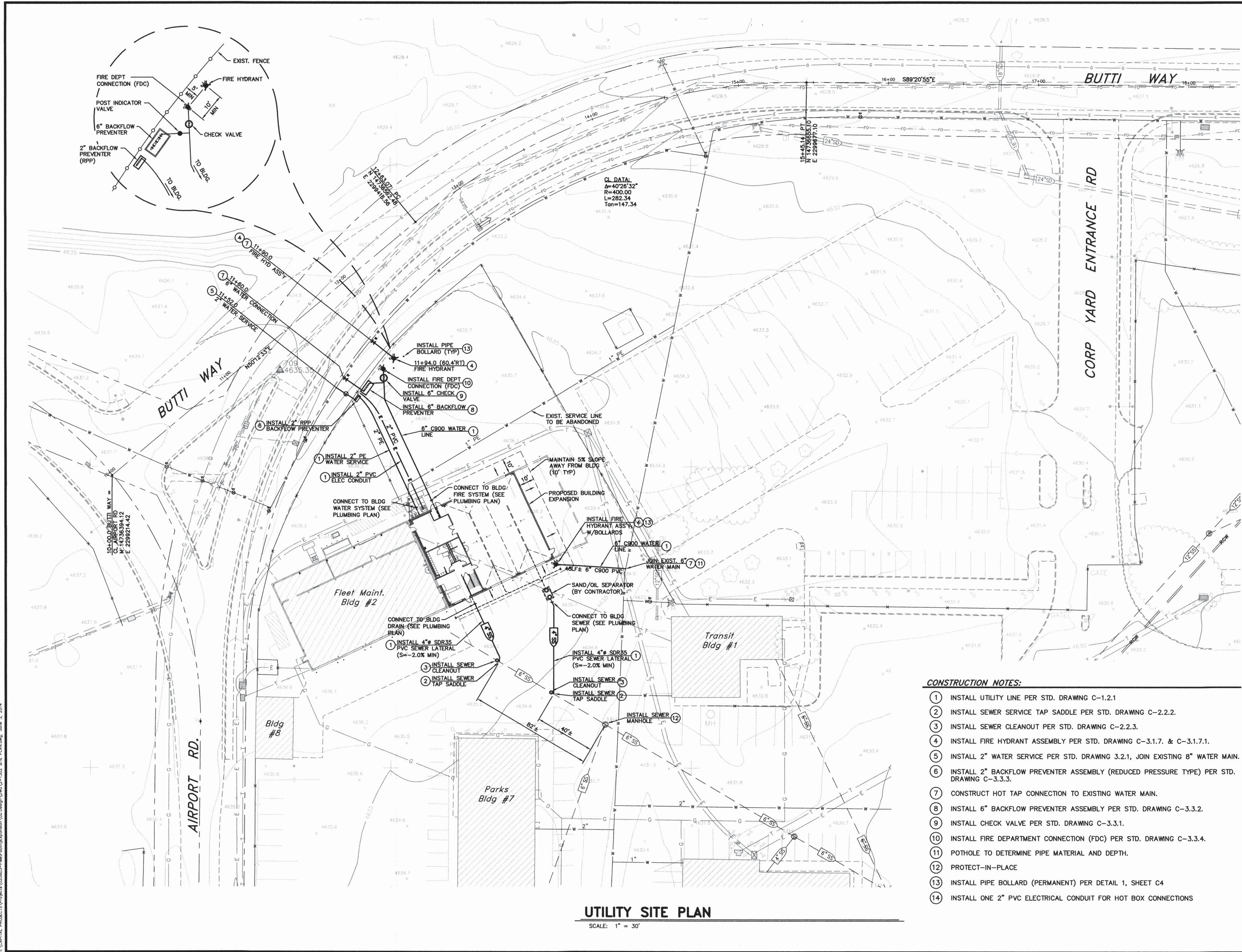
**CARSON CITY FLEET MAINTENANCE FACILITY EXPANSION**  
CARSON CITY, NEVADA

DATE	6-2-14
JOB NO	796
DRAWN	RBR
CHECKED	MLM/JDG

BUILDING DEPARTMENT COMMENTS  
4/24/14

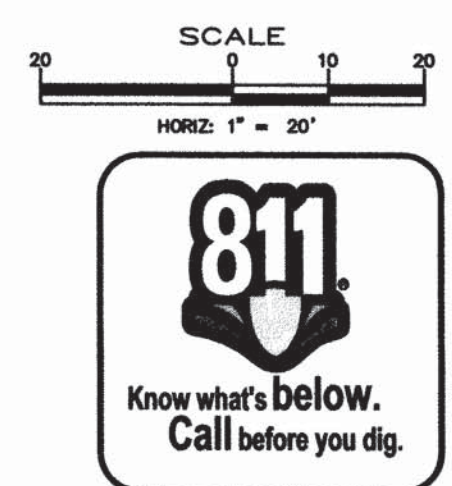
**GENERAL ARCHITECTURAL**  
**A0.1**

I:\CAPITAL PROJECTS\Projects\Expansion\02 Design\DWG\2-1302 SITE PLAN.dwg June 3, 2014



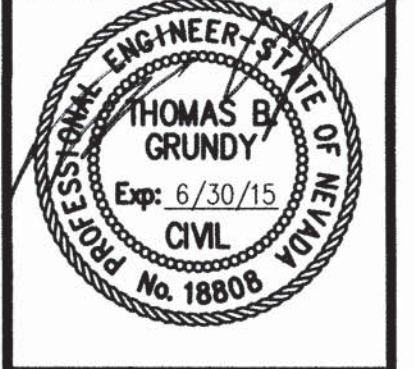
**UTILITY SITE PLAN**  
SCALE: 1" = 30'

- CONSTRUCTION NOTES:**
- 1 INSTALL UTILITY LINE PER STD. DRAWING C-1.2.1
  - 2 INSTALL SEWER SERVICE TAP SADDLE PER STD. DRAWING C-2.2.2.
  - 3 INSTALL SEWER CLEANOUT PER STD. DRAWING C-2.2.3.
  - 4 INSTALL FIRE HYDRANT ASSEMBLY PER STD. DRAWING C-3.1.7. & C-3.1.7.1.
  - 5 INSTALL 2" WATER SERVICE PER STD. DRAWING 3.2.1, JOIN EXISTING 8" WATER MAIN.
  - 6 INSTALL 2" BACKFLOW PREVENTER ASSEMBLY (REDUCED PRESSURE TYPE) PER STD. DRAWING C-3.3.3.
  - 7 CONSTRUCT HOT TAP CONNECTION TO EXISTING WATER MAIN.
  - 8 INSTALL 6" BACKFLOW PREVENTER ASSEMBLY PER STD. DRAWING C-3.3.2.
  - 9 INSTALL CHECK VALVE PER STD. DRAWING C-3.3.1.
  - 10 INSTALL FIRE DEPARTMENT CONNECTION (FDC) PER STD. DRAWING C-3.3.4.
  - 11 POTHOLE TO DETERMINE PIPE MATERIAL AND DEPTH.
  - 12 PROTECT-IN-PLACE
  - 13 INSTALL PIPE BOLLARD (PERMANENT) PER DETAIL 1, SHEET C4
  - 14 INSTALL ONE 2" PVC ELECTRICAL CONDUIT FOR HOT BOX CONNECTIONS



DESIGNED BY: DGR  
 DRAWN BY: DGR  
 CHECKED BY: DA/TG  
 DWG NO.: 2-1302 SITE PLAN.DWG  
 SCALE (HORIZ): 1" = 30'  
 SCALE (VERT): N/A  
 PLOT DATE: 6/3/14

**CARSON CITY  
 PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112

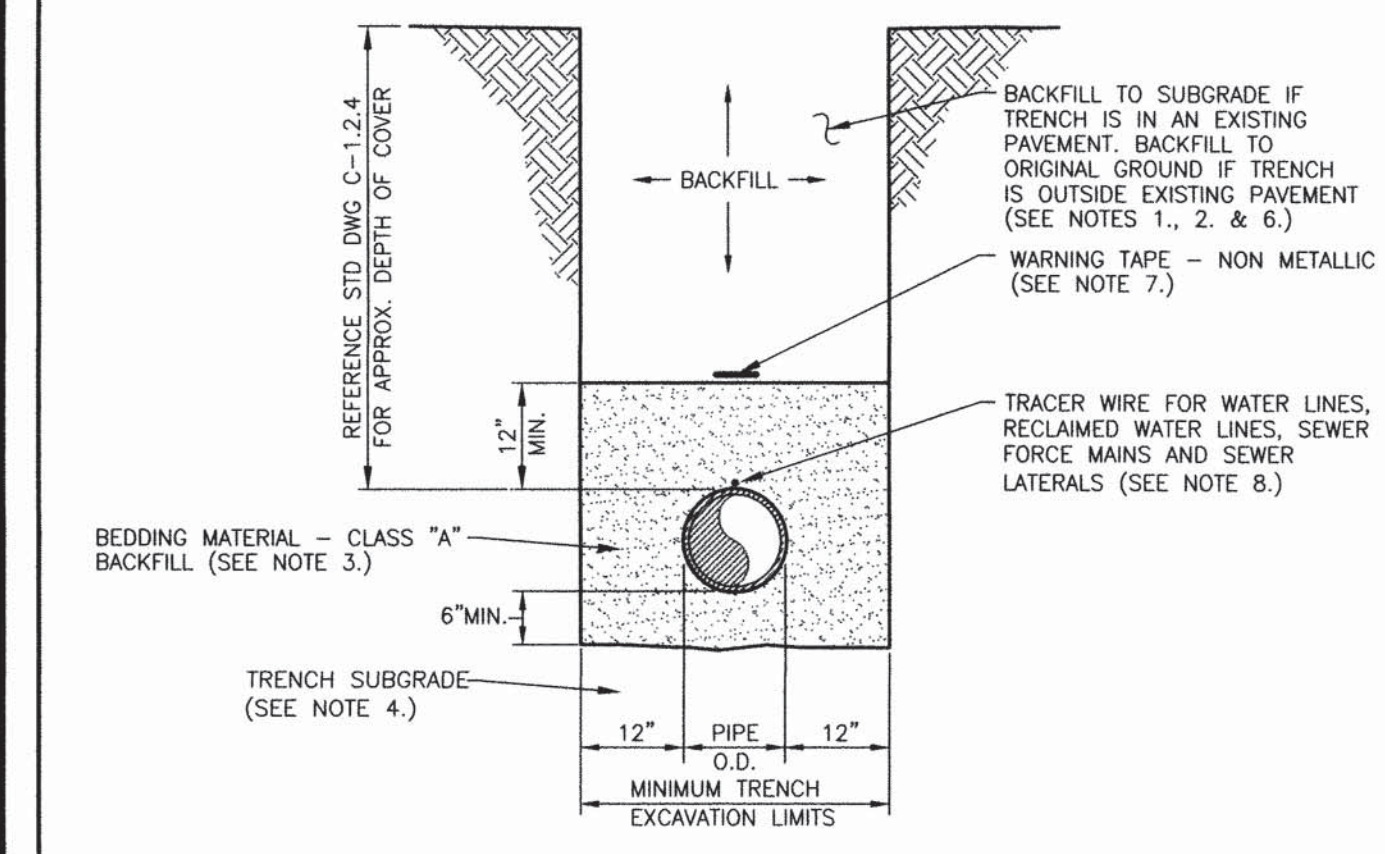


REV.	DATE	DESCRIPTION	BY	APP'D

**CARSON CITY  
 CORPORATION YARD IMPROVEMENTS  
 PROJECT No. 2.1302  
 FLEET MAINTENANCE EXPANSION  
 UTILITY SITE PLAN**

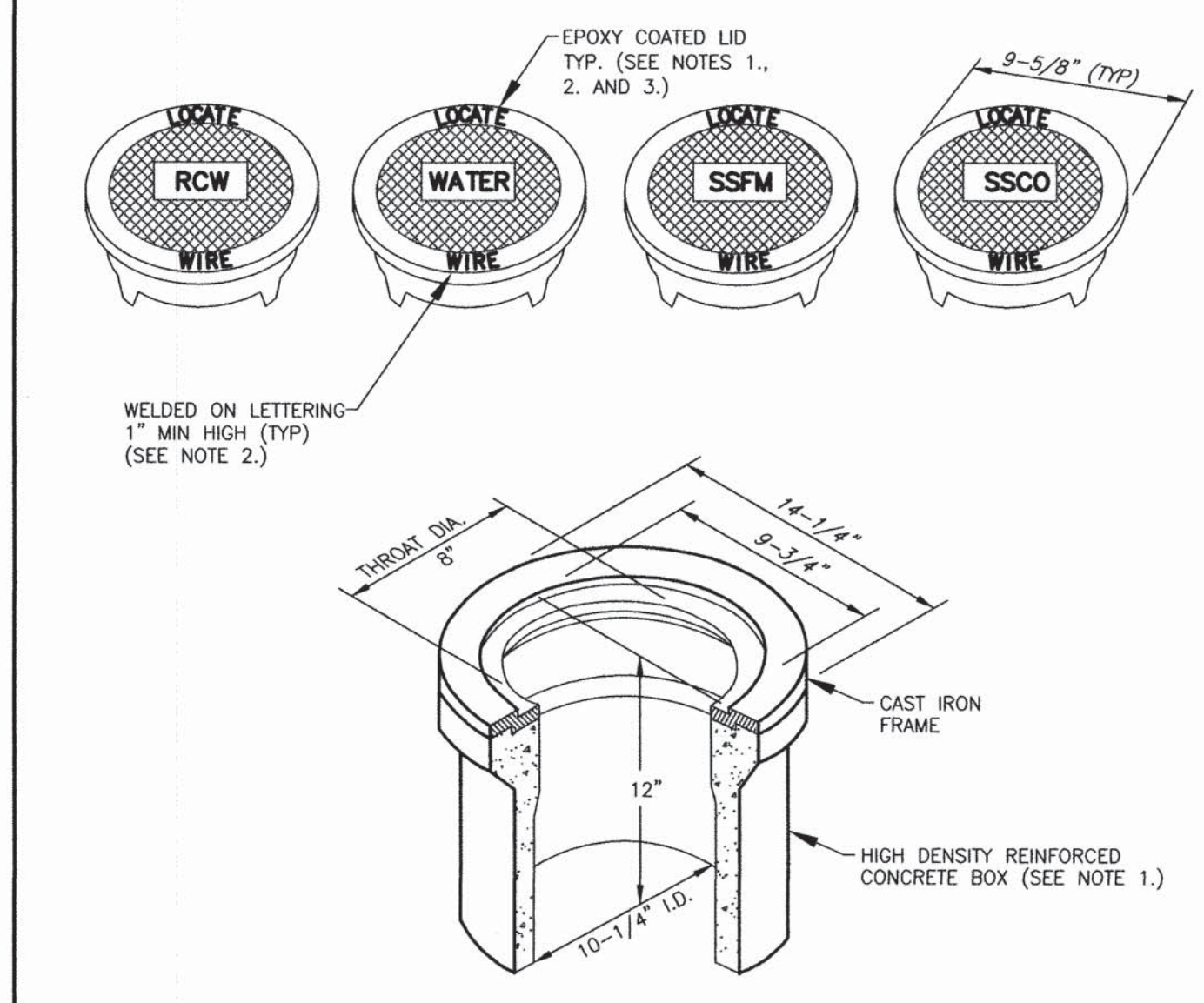
SHEET  
**C1**  
 OF  
**49**

FOR BIDDING PURPOSES ONLY



- ### TYPICAL TRENCH SECTION
- 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 (DWG. 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. TRASER WIRE SHALL BE 12 GAUGE (MINIMUM THICKNESS) INSULATED SOLID COPPER OR COPPER-CLAD STEEL CORE WIRE. INSULATION SHALL BE 30 MIL HDPE. 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 UL LISTED ELECTRICAL TAPE. TRASER 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
			<b>TRENCH EXCAVATION AND BACKFILL</b>	DRAWING NO. C-1.2.1 (305)
APPROVED BY:		7/09		DATE 7/2009

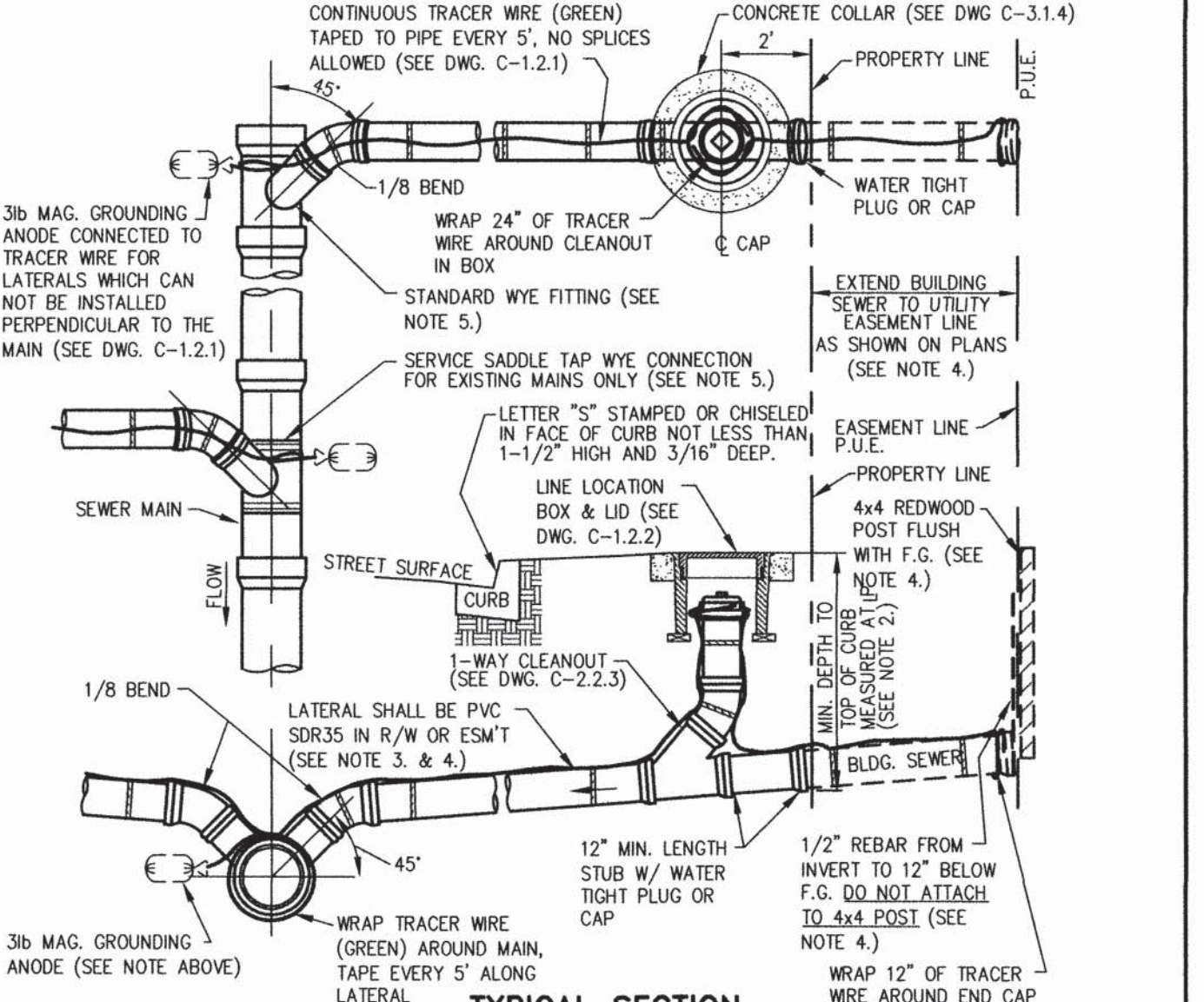


- ### LINE LOCATION BOX & LID
- NOTES:**
1. BOX AND LID SHALL BE TRAFFIC RATED WITH A MINIMUM INSIDE DIAMETER OF 10 INCHES (CHRISTY G3 TRAFFIC VALVE BOX & LID).
  2. CAST IRON LID SHALL BE MARKED AT THE FACTORY "LOCATE WIRE", "WATER" FOR WATER APPLICATIONS, "RCW" FOR RECLAIMED WATER APPLICATIONS, "SSFM" FOR SANITARY SEWER FORCE MAIN APPLICATIONS, AND "SSCO" FOR SANITARY SEWER CLEANOUT APPLICATIONS.
  3. CAST IRON LID SHALL BE EPOXY COATED AT THE FACTORY, OR POWDER COATED, COLOR SHALL BE BLUE FOR WATER APPLICATIONS, PURPLE FOR RECLAIMED WATER APPLICATIONS AND GREEN FOR SANITARY SEWER APPLICATIONS.
  4. BOX SHALL BE SET OR ADJUSTED TO GRADE PER DRAWING NO. C-3.1.4. RISER FOR ADJUSTED BOX SHALL BE PER DRAWING NO. C-3.1.4 FOR OVERLAY ADJUSTMENTS, RISER WILL NOT REQUIRE REPLACEMENT OR EXTENSION IF IT EXTENDS A MINIMUM OF 2 INCHES INTO ADJUSTED BOX.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			<b>LINE LOCATION BOX &amp; LID</b>	DRAWING NO. C-1.2.2 (306,307)
APPROVED BY:		7/09		DATE 7/2009

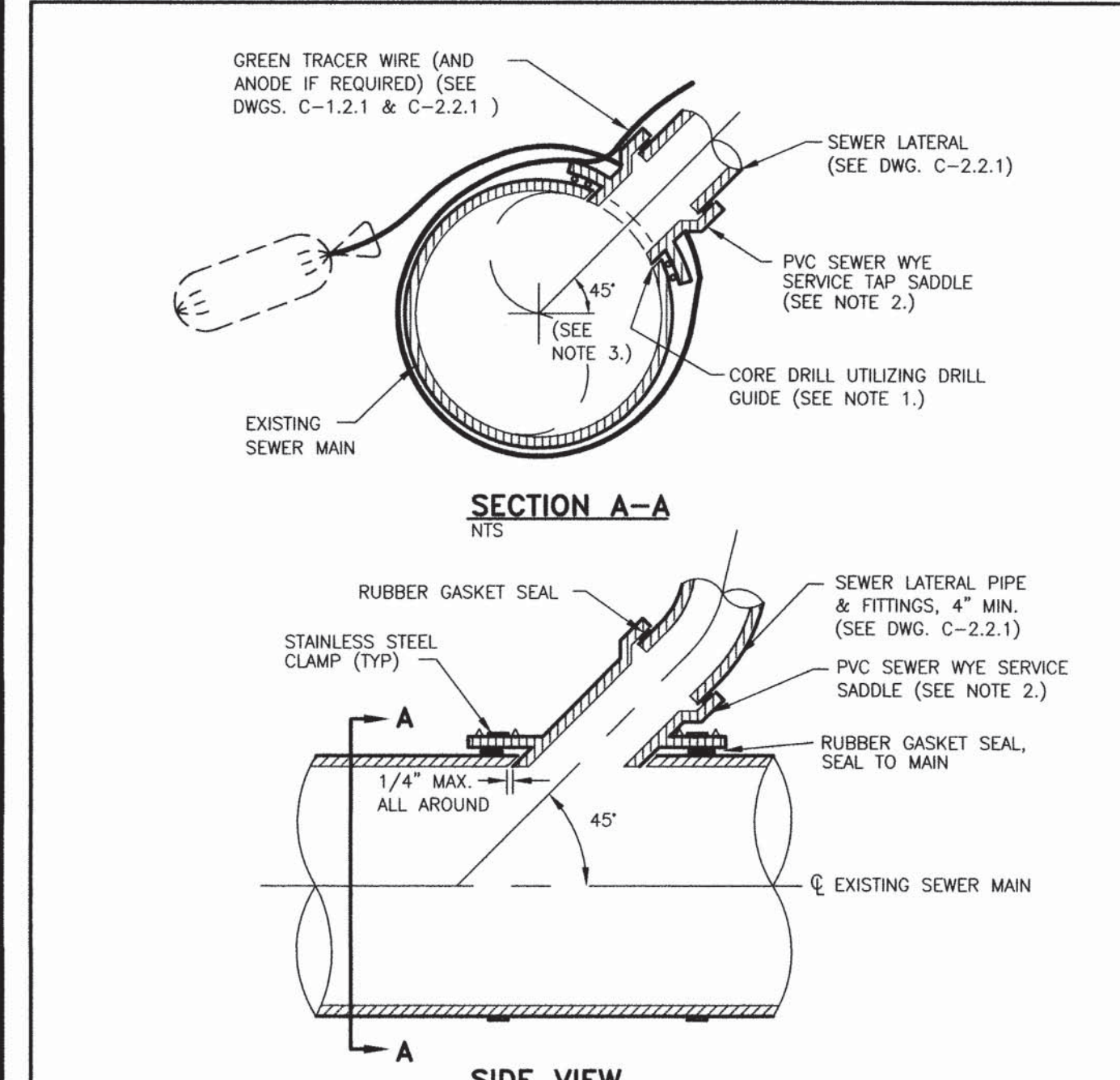
- ### SEWER GENERAL NOTES
1. ALL SEWER MAINS AND LATERALS IN THE RIGHT-OF-WAY/EASEMENT SHALL BE PVC SDR35 UNLESS OTHERWISE NOTED.
  2. NON-FLEXIBLE TRANSITION COUPLINGS ARE REQUIRED WHEN CONNECTING NEW SEWER LINES TO EXISTING LINES AND/OR FITTINGS, SEE DWG. C-2.1.6.
  3. THE CONTRACTOR SHALL INSTALL A PLUG AT THE POINT OF EXTENSION OF A SEWER MAIN PRIOR TO THE START OF CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL ALL LINES HAVE BEEN INSPECTED, TESTED, CLEANED AND FLUSHED. REMOVAL OF THE PLUG BY THE CONTRACTOR PRIOR TO APPROVAL IS A VIOLATION OF THE CARSON CITY MUNICIPAL CODE AND MAY RESULT IN FINES UP TO \$1,000 A DAY.
  4. SEWER LINES SHALL BE TESTED PER SECTION 336.03.07 OF THE SSPWC AS ADOPTED BY CARSON CITY. AN AIR PRESSURE TEST PER SECTION 336.03.07.04 AND A DEFLECTION TEST PER SECTION 336.03.09 OF THE CARSON CITY AMENDMENT TO THE SSPWC SHALL BE PERFORMED ON ALL SEWER LINES.
  5. MARKING TAPE SHALL BE INSTALLED 12 INCHES ABOVE ALL SEWER MAINS AND LATERALS. TAPE WIDTH SHALL BE 3 INCHES; THICKNESS SHALL BE FOUR 4 MIL OR GREATER AND SHALL BE GREEN AND BEAR LARGE PRINTING DENOTING "CAUTION BURIED SEWER LINE BELOW" OR EQUIVALENT WORDING.
  6. TRASER WIRE SHALL BE ATTACHED TO ANY SEWER LATERAL WHICH IS NOT PERPENDICULAR TO THE SEWER MAIN. SEE DWG. C-2.2.1

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			<b>SEWER GENERAL NOTES</b>	DRAWING NO. C-2.1.1 (204, 306, 323)
APPROVED BY:		07/09		DATE 7/2009



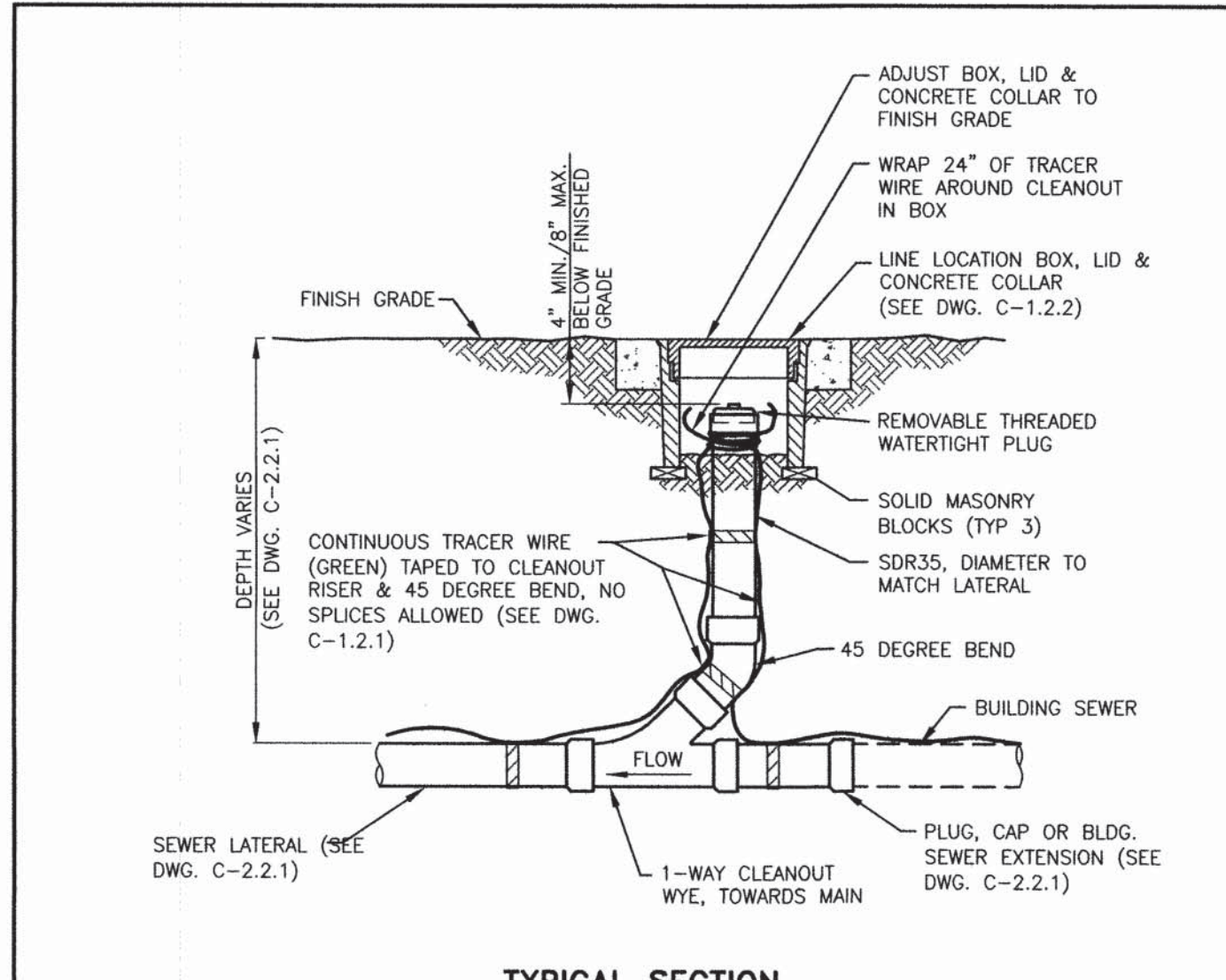
- ### SEWER LATERAL
- NOTES:**
1. IN NO CASE SHALL A LATERAL CONNECT TO THE SEWER MAIN DIRECTLY ON TOP OR MATCH THE FLOWLINE OF THE PIPE.
  2. SEWER LATERALS SHALL HAVE A MINIMUM SLOPE OF 2%. PLANS SHALL INDICATE INVERT ELEV. REQUIRED TO SERVE PROPERTY AND CLEAR UNDERGROUND OBSTRUCTIONS.
  3. ALL JOINTS ON SEWER LATERAL PIPE WITHIN THE RIGHT-OF-WAY SHALL BE COMPRESSION TYPE. C900 PVC MAY BE SUBSTITUTED FOR SDR35 TO MEET NDEP BSOP SEPARATIONS.
  4. LATERAL SHALL BE PERPENDICULAR TO THE MAIN AND EXTEND TO PROPERTY LINE. WHEN SHOWN ON PLANS TO INSTALL BUILDING SEWER PRIOR TO PUBLIC UTILITIES, INSTALLATION OF BUILDING SEWER IS EXTENDED TO UTILITY EASEMENT LINE AND STANDARD WATERTIGHT PLUG OR CAP, REDWOOD POST AND REBAR SHALL BE INSTALLED AT EASEMENT LINE.
  5. USE OF SEWER SERVICE TAP SADDLE CONNECTIONS SHALL NOT BE ALLOWED FOR NEW SEWER MAIN CONSTRUCTION. WHEN A TAP SADDLE CONNECTION IS TO BE USED ON AN EXISTING SEWER MAIN, IT SHALL BE A WYE SADDLE AND BE INSTALLED PER DWG. C-2.2.2.
  6. DISCONTINUANCE OF USE OF AN EXISTING SEWER LATERAL REQUIRES ABANDONMENT OF THE LATERAL. CUT, REMOVE 1 FOOT OF EXISTING LATERAL AND CAP BOTH ENDS OF THE EXISTING SEWER LATERAL TO BE ABANDONED WITHIN 6 INCHES OF THE SEWER MAIN. INSPECTION BY CARSON CITY SEWER UTILITY IS REQUIRED PRIOR TO BACKFILL.
  7. PROPERTY OWNER SHALL BE RESPONSIBLE FOR OPERATION, MAINTENANCE AND REPAIR OF THE SEWER LATERAL WITHIN THE PUBLIC RIGHT-OF-WAY PER DCMC 12.05.050.5.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			<b>SEWER LATERAL</b>	DRAWING NO. C-2.2.1 (203,306)
APPROVED BY:		07/09		DATE 7/2009



- ### SEWER SERVICE TAP SADDLE
- NOTES:**
1. EXISTING SEWER MAINS SHALL BE CORE DRILLED UTILIZING A DRILL GUIDE FOR A WYE SADDLE AND A CORE DRILL WITH A LENGTH EXCEEDING THE LATERAL DIAMETER, INSERT-A-DRILL ID175 & EXTRA LONG HOLE SAW OR APPROVED EQUAL. DIAMOND CORE BITS SHALL BE USED ON NON-PVC MAINS.
  2. SERVICE TAP SADDLES SHALL BE PVC SEWER WYE SADDLES. A ROMAC STYLE "CB" SEWER SADDLE OR APPROVED EQUAL MAY BE USED ON EXISTING SEWER MAINS ONLY WHEN MAIN IS NOT PVC.
  3. SADDLES SHALL BE INSTALLED AT 45 DEGREES TO MAIN AS SHOWN IN SECTION A-A. IN NO CASE SHALL A LATERAL CONNECTING TO THE EXISTING SEWER MAIN BE LOCATED DIRECTLY ON TOP OF THE PIPE, NOR SHALL IT MATCH THE FLOWLINE OF THE PIPE.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			<b>SEWER SERVICE TAP SADDLE</b>	DRAWING NO. C-2.2.2 (203,306)
APPROVED BY:		7/09		DATE 7/2009

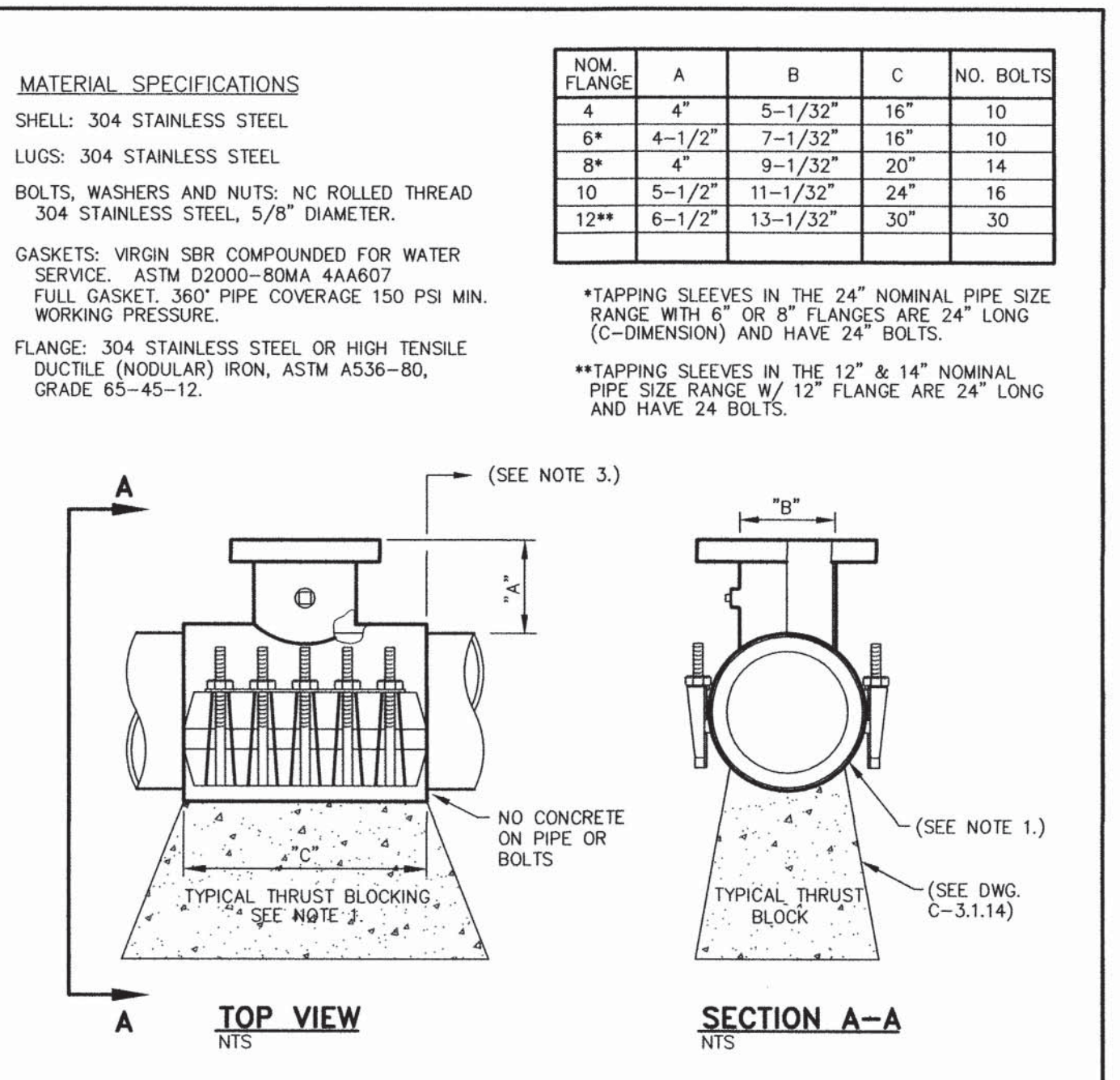


- ### SEWER CLEANOUT
- NOTES:**
1. WATER MAIN SHUTDOWNS/INTERRUPTION OF WATER/FIRE SERVICE; OBTAIN TENTATIVE APPROVAL FROM CARSON CITY WATER UTILITY PRIOR TO PLANNING A SHUTDOWN. APPROVAL IS REQUIRED ONE WORKING DAY PRIOR TO NOTIFICATION OF CUSTOMERS. COMMERCIAL CUSTOMERS SHALL RECEIVE 2 WORKING DAYS WRITTEN AND VERBAL NOTICE OF A SHUTDOWN. SPECIAL ARRANGEMENTS INCLUDING NIGHT TIME SHUTDOWNS MAY BE REQUIRED OF THE CONTRACTOR TO ACCOMMODATE CUSTOMER OPERATIONS. RESIDENTIAL CUSTOMERS SHALL RECEIVE 24 HOURS WRITTEN NOTICE. WHEN WORK IS PERFORMED BY CITY STAFF, THE CITY IS RESPONSIBLE FOR THE NOTIFICATION. THE CONTRACTOR IS RESPONSIBLE IN ALL OTHER CASES. A LIST SHALL BE KEPT BY THE RESPONSIBLE PARTY LISTING THE DATE, TIME AND ADDRESS OF ALL PERSONS NOTIFIED. THE PERSON NOTIFIED SHALL BE INCLUDED ON THE LIST FOR ALL COMMERCIAL CUSTOMERS. CONTACT CARSON CITY WATER UTILITY FOR PHONE NUMBERS WHEN COMMERCIAL CUSTOMERS CANNOT BE LOCATED. THE CONTRACTOR WILL BE SUBJECT TO DAMAGE CLAIMS SHOULD THEY FAIL TO NOTIFY CUSTOMERS OR MAINTAIN DOCUMENTATION OF NOTIFICATION OF CUSTOMERS. THE TOTAL TIME OF ANY WATER SERVICE INTERRUPTION IS LIMITED TO 4 HOURS MAXIMUM. THE CONTRACTOR SHALL NOT OPERATE ANY EXISTING WATER VALVES. WATER MAIN SHUTDOWNS WILL ONLY BE SCHEDULED FOR TUESDAYS, WEDNESDAYS, OR THURSDAYS, EXCLUDING THE WORKING DAYS BEFORE AND AFTER A HOLIDAY. CONTRACTOR SHALL MAKE A WRITTEN REQUEST, TO THE WATER OPERATIONS CHIEF, A MINIMUM OF 10 CALENDAR DAYS IN ADVANCE OF ANY PLANNED SHUTDOWN.
  2. WATER MAINS (6 INCH THRU 12 INCH) SHALL BE PVC C900, DR 18 (MINIMUM WALL THICKNESS) UNLESS HIGHER PRESSURE IS SPECIFIED ON THE PLANS. WATER SERVICES 2 INCHES OR LESS SHALL BE CTS. PE TUBING MINIMUM 200 PSI; WATER SERVICES 3 INCHES OR GREATER SHALL BE 4 INCH MINIMUM DIAMETER PVC C900, DR 18 OR AS SPECIFIED ON THE PLANS.
  3. MAINTAIN 18 INCHES VERTICAL AND 5 FEET HORIZONTAL SEPARATION BETWEEN ALL UNDERGROUND UTILITY LINES AND WATER LINES. IF WATER LINE IS BELOW POWER LINE OR IS WITHIN 18 INCH VERTICAL SEPARATION OF POWER LINE, POWER/TELEPHONE LINE SHALL BE ENCASED WITH 4 INCHES MINIMUM OF CONCRETE EXTENDING 5 FEET EACH SIDE OF CROSSING. (SEE NV ENERGY SPECS.) CONCRETE ENCASEMENT OF WATER LINES IS NOT ALLOWED.
  4. ALL HOT TAPS, GREATER THAN 2 INCHES AND LESS THAN 14 INCHES, ARE TO BE PERFORMED BY CARSON CITY WATER UTILITY. THE CONTRACTOR SHALL CONTACT THE WATER OPERATIONS CHIEF AT LEAST 2 WORKING DAYS PRIOR TO SCHEDULING HOT TAP DATE AND TIME (HOT TAPS ARE PERFORMED TUESDAY THRU THURSDAY EXCLUDING THE WORKING DAYS BEFORE AND AFTER A HOLIDAY). PRIOR TO HOT TAPPING, THE SADDLE SHALL BE HYDROSTATICALLY PRESSURE TESTED TO 150 PSI MINIMUM OR THE DESIGN OF PIPE SYSTEM FOR A MINIMUM OF 5 MINUTES. THE TEST SHALL BE PERFORMED IN THE PRESENCE OF THE WATER UTILITY PERSONNEL PRIOR TO PERFORMING THE TAP.
  5. WATER VALVE MARKERS SHALL BE BLUE CARSONITE UTILITY MARKER (CUM-375), 5 FEET-2 INCHES (5'-2") WITH CARSON CITY WATER VALVE DECAL (CW-116) OR APPROVED EQUAL. PLACE MARKER NO MORE THAN 5 FEET FROM THE VALVE OR AS DIRECTED BY THE CARSON CITY INSPECTOR.
  6. REDUCED PRESSURE PRINCIPLE AND DOUBLE CHECK VALVE BACKFLOW ASSEMBLIES SHALL BE APPROVED BY THE CARSON CITY INSPECTOR, AND TESTED BY A CERTIFIED BACKFLOW ASSEMBLY TESTER, AND TEST RESULTS SHALL BE APPROVED BY CARSON CITY WATER UTILITY. FOR NEW WATER METER SETS, THE REQUIRED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED, INSPECTED, APPROVED AND CERTIFIED TEST RESULTS PROVIDED TO THE CARSON CITY INSPECTOR WITHIN 5 DAYS OF METER SET, UNLESS THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR APPROVES OTHERWISE. THE SERVICE WILL BE LOCKED OFF IF INSPECTIONS AND CERTIFICATIONS ARE NOT COMPLETED AS SPECIFIED ABOVE. A 25 DOLLAR FEE WILL BE ASSESSED AT TIME OF TURN-ON WHEN LOCK IS REMOVED DURING NORMAL WORKING HOURS. THE FEE WILL BE ASSESSED ON THE BUILDING PERMIT FOR THE INSTALLATION OF THE BACKFLOW DEVICE.
  7. ALL WATER MAIN, WATER/FIRE SERVICE, AND BACKFLOW PREVENTION INSPECTIONS AND TESTING MUST BE APPROVED PRIOR TO APPROVAL OF ANY CERTIFICATE OF OCCUPANCY.
  8. DISINFECTION TABLETS SHALL BE PLACED USING TITEBOND MULTI-PURPOSE CLEAR 100% SILICONE OR APPROVED EQUAL FOOD GRADE SILICONE.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			<b>SEWER CLEANOUT</b>	DRAWING NO. C-2.2.3 (203,306)
APPROVED BY:		07/09		DATE 7/2009

- ### WATER GENERAL NOTES
1. WATER MAIN SHUTDOWNS/INTERRUPTION OF WATER/FIRE SERVICE; OBTAIN TENTATIVE APPROVAL FROM CARSON CITY WATER UTILITY PRIOR TO PLANNING A SHUTDOWN. APPROVAL IS REQUIRED ONE WORKING DAY PRIOR TO NOTIFICATION OF CUSTOMERS. COMMERCIAL CUSTOMERS SHALL RECEIVE 2 WORKING DAYS WRITTEN AND VERBAL NOTICE OF A SHUTDOWN. SPECIAL ARRANGEMENTS INCLUDING NIGHT TIME SHUTDOWNS MAY BE REQUIRED OF THE CONTRACTOR TO ACCOMMODATE CUSTOMER OPERATIONS. RESIDENTIAL CUSTOMERS SHALL RECEIVE 24 HOURS WRITTEN NOTICE. WHEN WORK IS PERFORMED BY CITY STAFF, THE CITY IS RESPONSIBLE FOR THE NOTIFICATION. THE CONTRACTOR IS RESPONSIBLE IN ALL OTHER CASES. A LIST SHALL BE KEPT BY THE RESPONSIBLE PARTY LISTING THE DATE, TIME AND ADDRESS OF ALL PERSONS NOTIFIED. THE PERSON NOTIFIED SHALL BE INCLUDED ON THE LIST FOR ALL COMMERCIAL CUSTOMERS. CONTACT CARSON CITY WATER UTILITY FOR PHONE NUMBERS WHEN COMMERCIAL CUSTOMERS CANNOT BE LOCATED. THE CONTRACTOR WILL BE SUBJECT TO DAMAGE CLAIMS SHOULD THEY FAIL TO NOTIFY CUSTOMERS OR MAINTAIN DOCUMENTATION OF NOTIFICATION OF CUSTOMERS. THE TOTAL TIME OF ANY WATER SERVICE INTERRUPTION IS LIMITED TO 4 HOURS MAXIMUM. THE CONTRACTOR SHALL NOT OPERATE ANY EXISTING WATER VALVES. WATER MAIN SHUTDOWNS WILL ONLY BE SCHEDULED FOR TUESDAYS, WEDNESDAYS, OR THURSDAYS, EXCLUDING THE WORKING DAYS BEFORE AND AFTER A HOLIDAY. CONTRACTOR SHALL MAKE A WRITTEN REQUEST, TO THE WATER OPERATIONS CHIEF, A MINIMUM OF 10 CALENDAR DAYS IN ADVANCE OF ANY PLANNED SHUTDOWN.
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  3. MAINTAIN 18 INCHES VERTICAL AND 5 FEET HORIZONTAL SEPARATION BETWEEN ALL UNDERGROUND UTILITY LINES AND WATER LINES. IF WATER LINE IS BELOW POWER LINE OR IS WITHIN 18 INCH VERTICAL SEPARATION OF POWER LINE, POWER/TELEPHONE LINE SHALL BE ENCASED WITH 4 INCHES MINIMUM OF CONCRETE EXTENDING 5 FEET EACH SIDE OF CROSSING. (SEE NV ENERGY SPECS.) CONCRETE ENCASEMENT OF WATER LINES IS NOT ALLOWED.
  4. ALL HOT TAPS, GREATER THAN 2 INCHES AND LESS THAN 14 INCHES, ARE TO BE PERFORMED BY CARSON CITY WATER UTILITY. THE CONTRACTOR SHALL CONTACT THE WATER OPERATIONS CHIEF AT LEAST 2 WORKING DAYS PRIOR TO SCHEDULING HOT TAP DATE AND TIME (HOT TAPS ARE PERFORMED TUESDAY THRU THURSDAY EXCLUDING THE WORKING DAYS BEFORE AND AFTER A HOLIDAY). PRIOR TO HOT TAPPING, THE SADDLE SHALL BE HYDROSTATICALLY PRESSURE TESTED TO 150 PSI MINIMUM OR THE DESIGN OF PIPE SYSTEM FOR A MINIMUM OF 5 MINUTES. THE TEST SHALL BE PERFORMED IN THE PRESENCE OF THE WATER UTILITY PERSONNEL PRIOR TO PERFORMING THE TAP.
  5. WATER VALVE MARKERS SHALL BE BLUE CARSONITE UTILITY MARKER (CUM-375), 5 FEET-2 INCHES (5'-2") WITH CARSON CITY WATER VALVE DECAL (CW-116) OR APPROVED EQUAL. PLACE MARKER NO MORE THAN 5 FEET FROM THE VALVE OR AS DIRECTED BY THE CARSON CITY INSPECTOR.
  6. REDUCED PRESSURE PRINCIPLE AND DOUBLE CHECK VALVE BACKFLOW ASSEMBLIES SHALL BE APPROVED BY THE CARSON CITY INSPECTOR, AND TESTED BY A CERTIFIED BACKFLOW ASSEMBLY TESTER, AND TEST RESULTS SHALL BE APPROVED BY CARSON CITY WATER UTILITY. FOR NEW WATER METER SETS, THE REQUIRED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED, INSPECTED, APPROVED AND CERTIFIED TEST RESULTS PROVIDED TO THE CARSON CITY INSPECTOR WITHIN 5 DAYS OF METER SET, UNLESS THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR APPROVES OTHERWISE. THE SERVICE WILL BE LOCKED OFF IF INSPECTIONS AND CERTIFICATIONS ARE NOT COMPLETED AS SPECIFIED ABOVE. A 25 DOLLAR FEE WILL BE ASSESSED AT TIME OF TURN-ON WHEN LOCK IS REMOVED DURING NORMAL WORKING HOURS. THE FEE WILL BE ASSESSED ON THE BUILDING PERMIT FOR THE INSTALLATION OF THE BACKFLOW DEVICE.
  7. ALL WATER MAIN, WATER/FIRE SERVICE, AND BACKFLOW PREVENTION INSPECTIONS AND TESTING MUST BE APPROVED PRIOR TO APPROVAL OF ANY CERTIFICATE OF OCCUPANCY.
  8. DISINFECTION TABLETS SHALL BE PLACED USING TITEBOND MULTI-PURPOSE CLEAR 100% SILICONE OR APPROVED EQUAL FOOD GRADE SILICONE.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			<b>WATER GENERAL NOTES</b>	DRAWING NO. C-3.1.1 (307)
APPROVED BY:		07/09		DATE 7/2009



- ### TAPPING SLEEVE
- NOTES:**
1. MATERIAL USED FOR THRUST BLOCKING SHALL NOT PREVENT ACCESS TO THE BOLT ASSEMBLY.
  2. POTABLE WATER HOT TAPS GREATER THAN 2 INCHES AND LESS THAN 14 INCHES SHALL BE PERFORMED BY CARSON CITY WATER UTILITY.
  3. MINIMUM DISTANCE BETWEEN TAP SADDLE, COLLARS, SERVICE TAPS, ETC. SHALL BE 18 INCHES CLEAR.
  4. SADDLE TO BE HYDROSTATICALLY PRESSURE TESTED BY THE CONTRACTOR, TO 150 PSI (MIN.) FOR A MINIMUM OF 5 MINUTES, WITNESSED BY CARSON CITY WATER UTILITY, PRIOR TO PERFORMING TAP.
  5. REFERENCE "WATER GENERAL NOTES" DWG. C-3.1.1, FOR HOT-TAP SCHEDULING INFORMATION.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			<b>TAPPING SLEEVE</b>	DRAWING NO. C-3.1.3 (203,307)
APPROVED BY:		07/09		DATE 7/2009

DESIGNED BY: DGR  
DRAWN BY: DGR  
CHECKED BY: DA/TG  
DWG NO.: 2-1302 SITE PLANNING  
SCALE (HORIZ): N/A  
SCALE (VERT): N/A  
PLOT DATE: 6/25/14

**CARSON CITY  
PUBLIC WORKS DEPARTMENT**

3505 BUTTI WAY CARSON CITY, NEVADA 89701  
PH: 775-887-2355  
FAX: 775-887-2355

BY APP'D

**THOMAS B. GRUNDY**  
Professional Engineer  
No. 18808

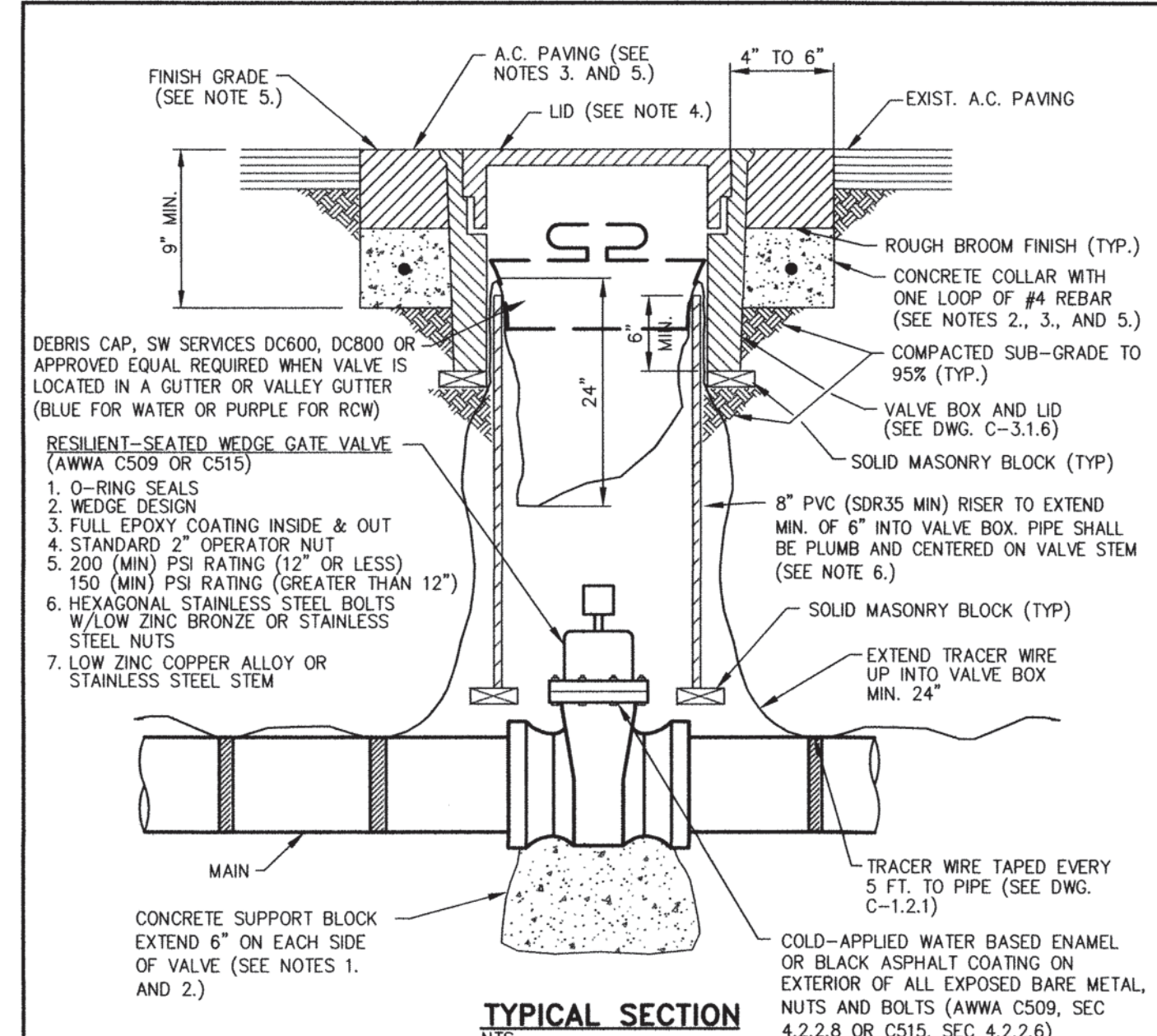
**CARSON CITY  
CORPORATION YARD IMPROVEMENTS  
PROJECT NO. 2.1302  
FLEET MAINTENANCE EXPANSION  
CONSTRUCTION DETAILS**

REV. DATE

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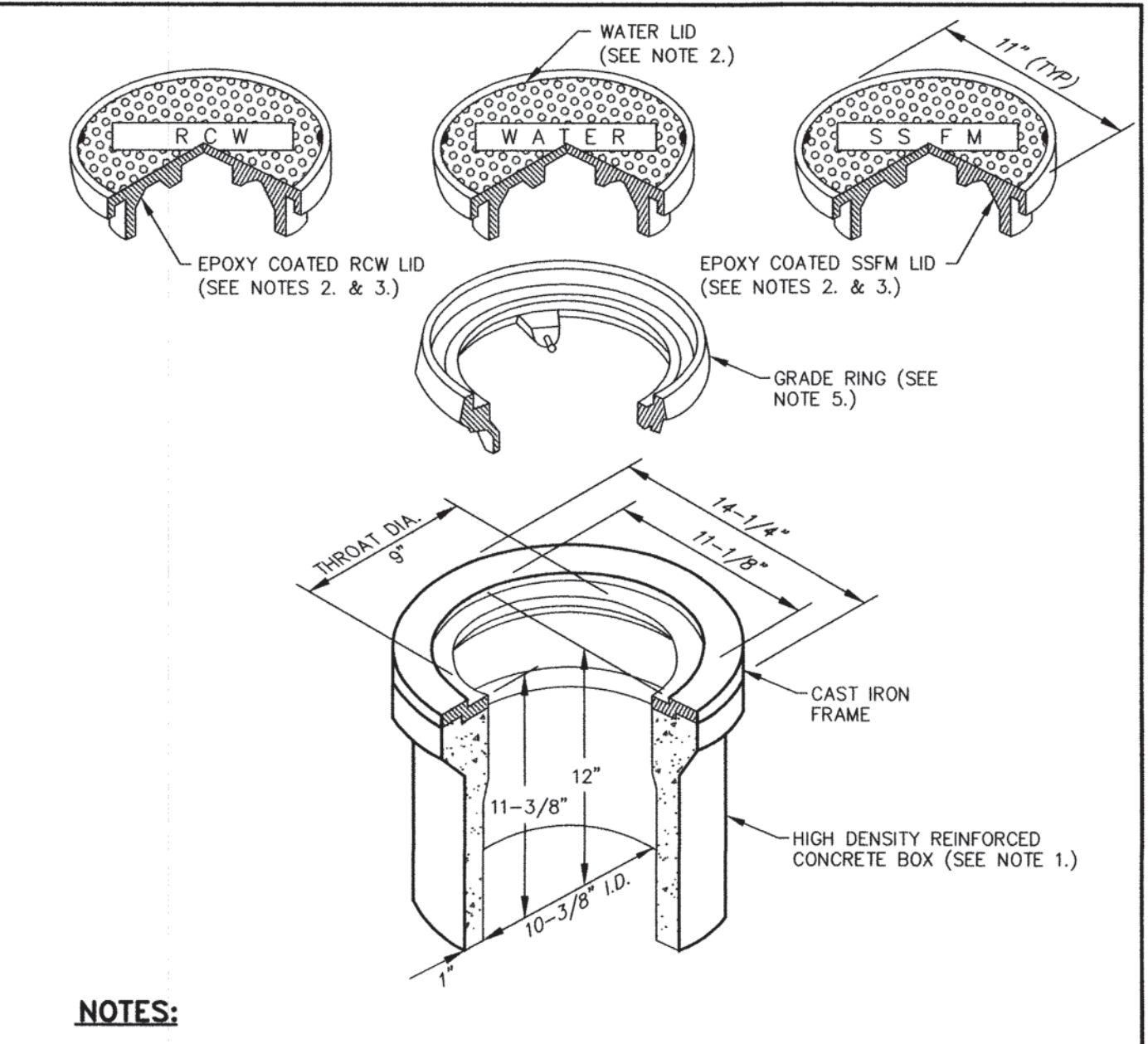
FOR BIDDING PURPOSES ONLY



- NOTES:**
- SUPPORT BLOCKING SHALL BE POURED AGAINST UNDISTURBED SOIL AND NOT PREVENT ACCESS TO BOLT ASSEMBLY OR VALVE JOINTS.
  - CONCRETE SHALL CONFORM TO THE SSPWC SECTION 337.10. REBAR SHALL ONLY BE USED WHEN THE VALVE BOX IS LOCATED OUTSIDE PAVED AREAS.
  - THE CONCRETE COLLAR SHALL BE LEFT 2 1/2 INCHES - 3 INCHES BELOW FINISHED ASPHALT SURFACE. APPLY AN APPROVED TACK COAT (CONFORMING TO THE SSPWC SECTION 316) AND FILL VOID BETWEEN ADJACENT PAVEMENT AND FRAME WITH TYPE 3 PG 64-22 PAVING (CONFORMING TO THE SSPWC SECTION 320). APPLY FOG SEAL (CONFORMING TO THE SSPWC SECTION 317) TO THE ASPHALT SURFACE. ALL CUTS IN PAVING SHALL BE STRAIGHT AND EVEN. EXCEPTION: WHEN STRUCTURE NOT LOCATED IN ASPHALT PAVEMENT OR IN AN UNPAVED AREA, EXTEND CONCRETE TO FINISH GRADE.
  - LIDS SHALL BE SET FLUSH WITH FINISH GRADE UNLESS OTHERWISE NOTED.
  - WHEN LOCATED IN NDOT RIGHT-OF-WAY, CONCRETE COLLAR SHALL CONFORM TO NDOT STANDARD PSH SHT R-4.3.3 AND STANDARD SPECIFICATION 609.
  - RISER COLOR SHALL BE BLUE, OR SAME COLOR AS MAIN FOR WATER APPLICATIONS, PURPLE FOR RECLAIMED WATER APPLICATIONS, AND GREEN FOR SANITARY SEWER APPLICATIONS.
  - VALVES ON FIRE LINES SHALL BE UL/FM APPROVED AND MEET ALL APPLICABLE NFPA REQUIREMENTS.

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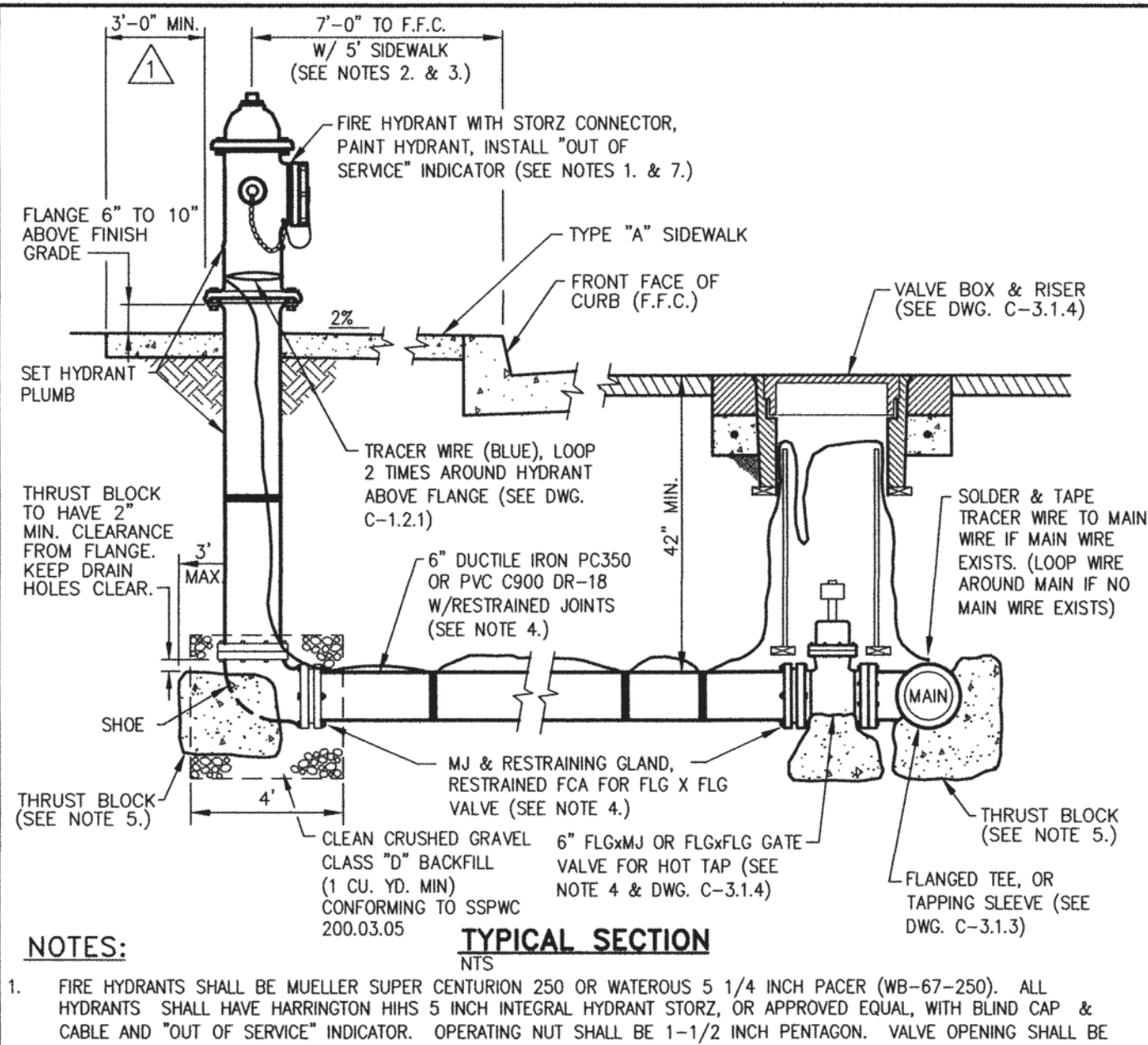
**GATE VALVE**



- NOTES:**
- VALVE BOX AND LID SHALL BE H20 TRAFFIC RATED WITH A MINIMUM INSIDE DIAMETER OF 10 INCHES (CHRISTY G5 TRAFFIC VALVE BOX & LID).
  - CAST IRON LID SHALL BE MARKED AT THE FACTORY "WATER" FOR WATER APPLICATIONS, "RECLAIMED WATER" OR "ROW" FOR RECLAIMED WATER APPLICATIONS, AND "SSFM" FOR SANITARY SEWER APPLICATIONS.
  - FOR RECLAIMED WATER AND SANITARY SEWER APPLICATIONS, CAST IRON LID SHALL BE EPOXY COATED AT THE FACTORY, OR POWDER COATED, COLOR SHALL BE PURPLE FOR RECLAIMED WATER APPLICATIONS AND GREEN FOR SANITARY SEWER APPLICATIONS.
  - VALVE BOX SHALL BE SET OR ADJUSTED TO GRADE PER DRAWING NO. C-3.1.4. RISER FOR ADJUSTED VALVE BOX SHALL BE PER DRAWING NO. C-3.1.4. FOR OVERLAY ADJUSTMENTS, RISER WILL NOT REQUIRE REPLACEMENT OR EXTENSION IF IT EXTENDS A MINIMUM OF 2 INCHES INTO ADJUSTED VALVE BOX.
  - GRADE RING IS NOT ALLOWED FOR NEW VALVE BOX INSTALLATIONS. CAST IRON GRADE RING (CHRISTY G5 GRADE RING) MAY BE USED FOR OVERLAY ADJUSTMENTS WHEN OVERLAY DEPTH EQUALS THE GRADE RING DEPTH. NO MORE THAN ONE GRADE RING ALLOWED PER BOX.

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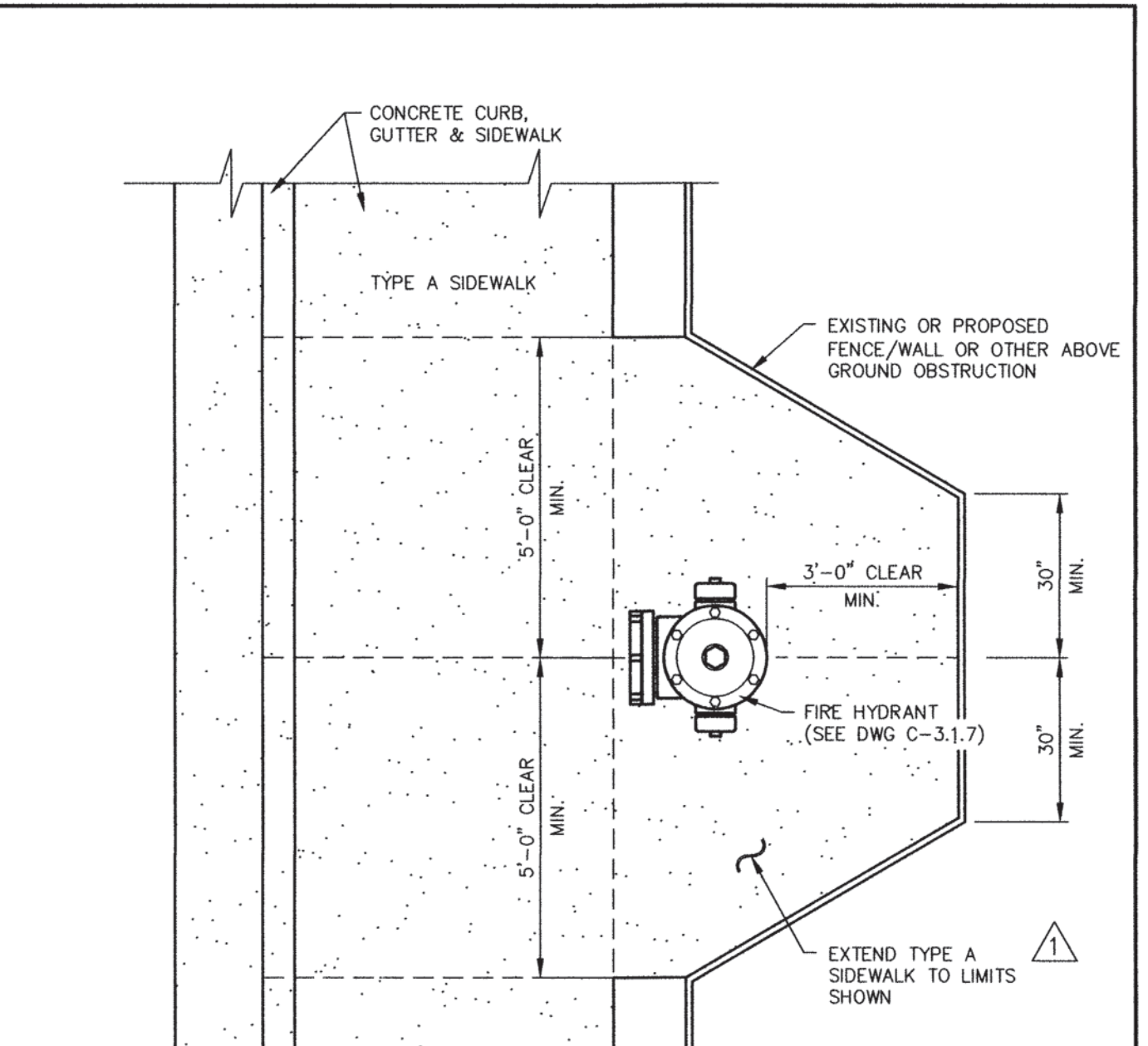
**VALVE BOX & LID**



- NOTES:**
- FIRE HYDRANTS SHALL BE MUELLER SUPER CENTURION 250 OR WATEROUS 5 1/4 INCH PACER (WF-67-250). ALL HYDRANTS SHALL HAVE HARRINGTON HH5 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 50 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 SHOE MAY BE AQUAGRIP, 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-3.1.14. 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-OLEUM 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.

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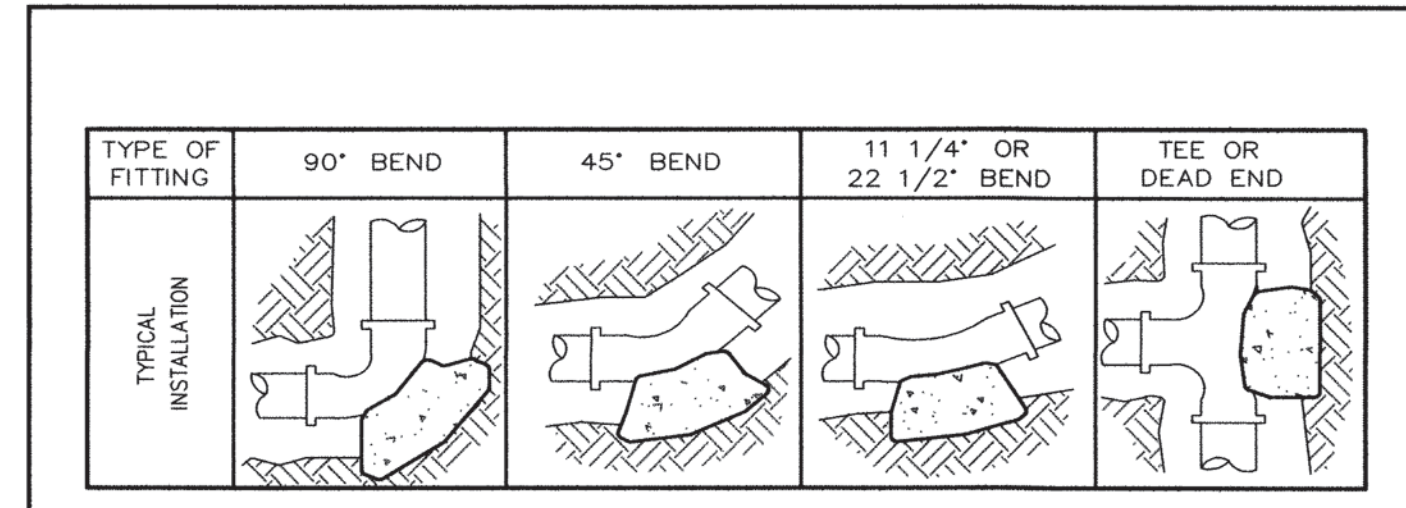
**FIRE HYDRANT ASSEMBLY**



- NOTES:**
- SEE DWG. C-3.1.7 FOR FIRE HYDRANT INSTALLATION.
  - INSTALL OR RELOCATE EXISTING FENCE/WALL/LANDSCAPING/MISC IMPROVEMENTS ETC. TO PROVIDE THE MINIMUM CLEARANCE AROUND THE HYDRANT AS SHOWN.

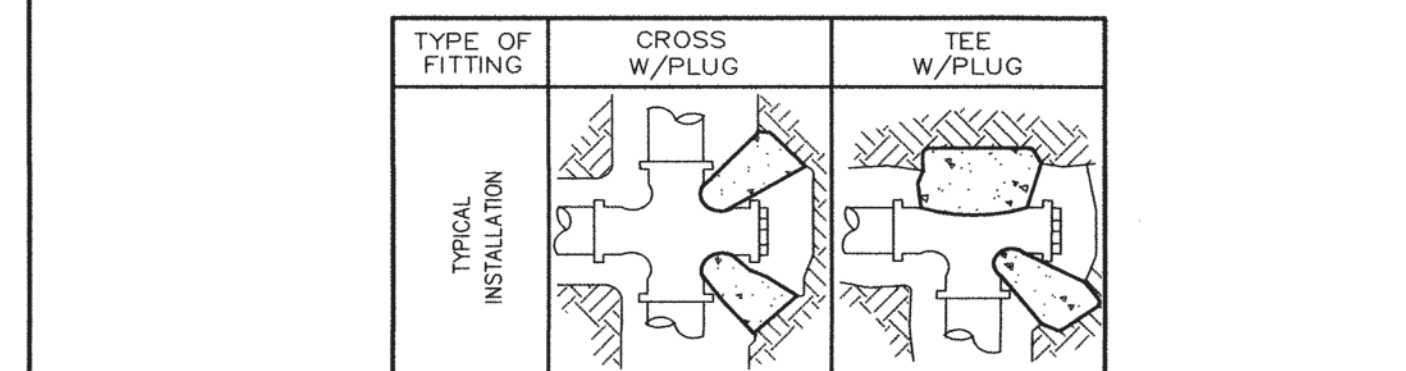
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**FIRE HYDRANT SETBACK / FENCE CLEARANCE**



**THRUST BLOCK BEARING AREA (SQ. FT.)**

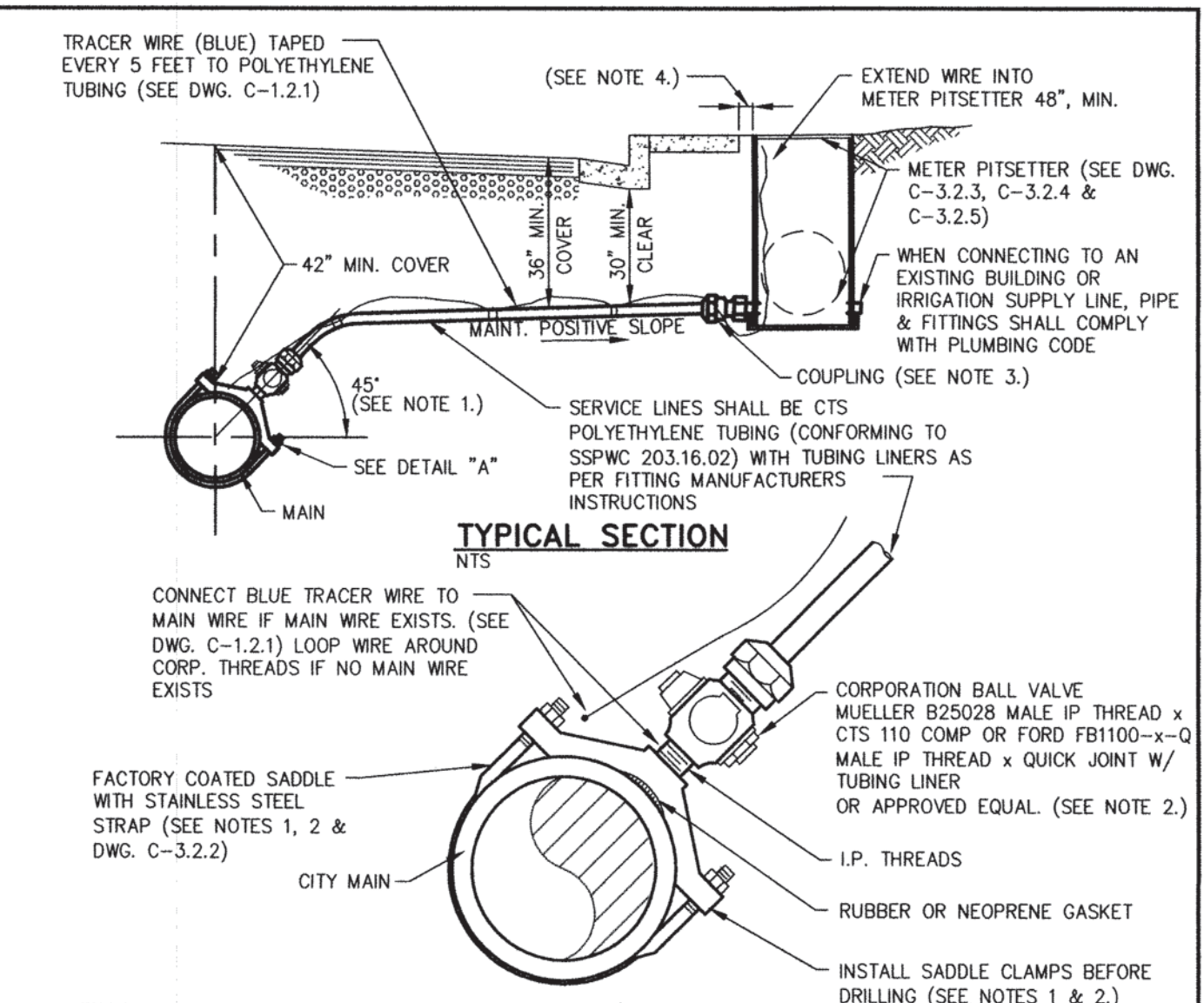
TYPE OF FITTING	90° BEND	45° BEND	11 1/4" OR 22 1/2" BEND	TEE OR DEAD END	TEE W/PLUG	CROSS W/PLUG
4"	2	1	1	2	2	2
6"	4	4	2	4	4	4
8"	7	4	2	5	7	7
10"	12	6	3	8	12	12
12"	16	10	5	12	16	16
14"	20	12	6	14	20	20
16"	27	15	8	18	27	27
18"	45	25	13	32	45	45
24"	65	35	18	46	65	65



- 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.

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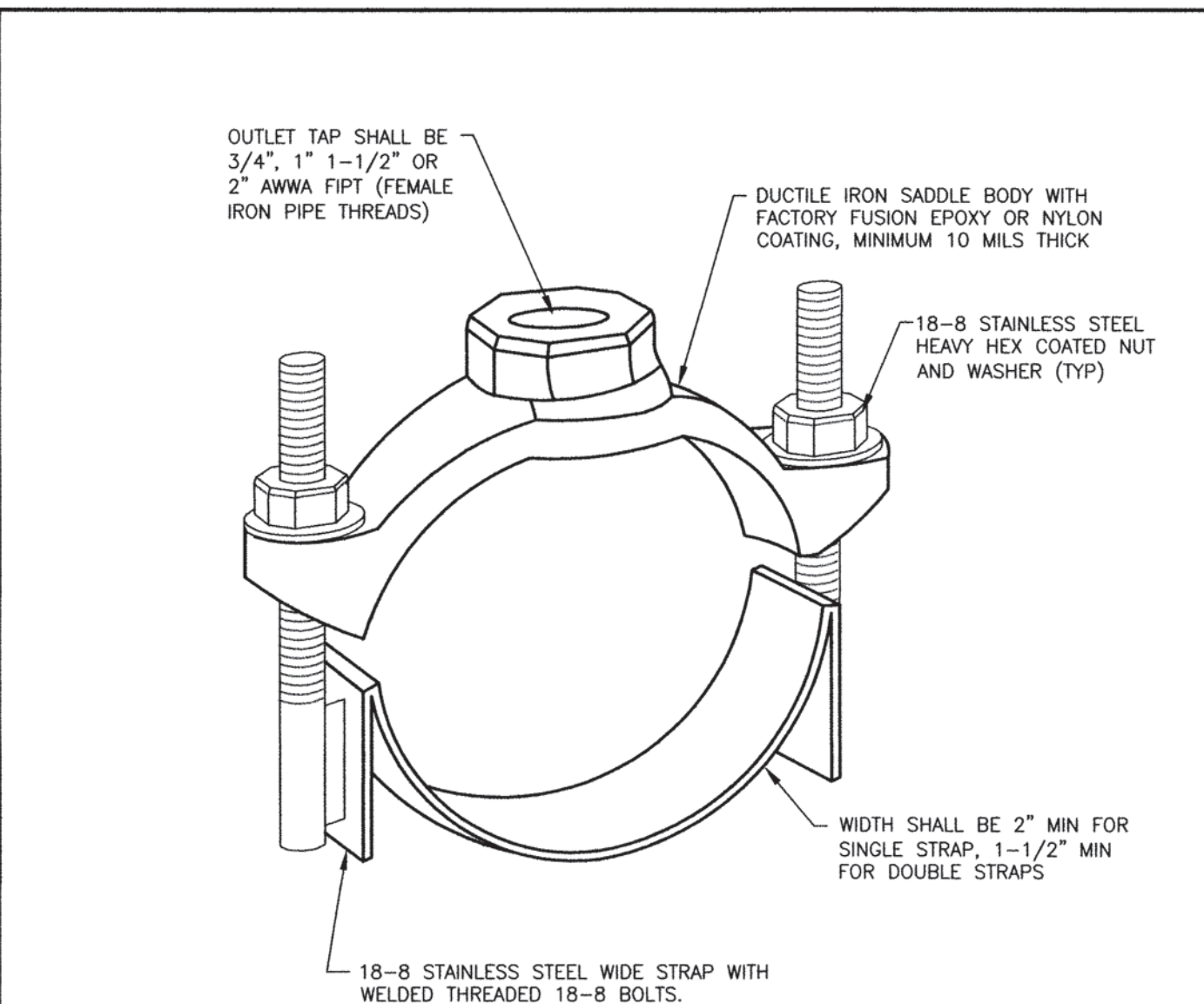
**THRUST BLOCKS**



- NOTES:**
- MINIMUM DISTANCE BETWEEN TAPS AND MAINLINE FITTINGS, INCLUDING BELLS SHALL BE 18 INCHES. TAPPING SADDLE MUST BE AT 45 DEGREE ANGLE, EXCEPTIONS MUST BE APPROVED BY CARSON CITY WATER UTILITY.
  - CORPORATION VALVES AND SERVICE SADDLES SHALL CONFORM TO AWWA C800 AND BE NO LESS THAN THE SERVICE LINE SIZE WHEN REPLACING AN EXISTING SERVICE LINE AND A SIZE LARGER THAN SHOWN IS ENCOUNTERED. THE LARGER SIZE LINE, FITTINGS AND SADDLE SHALL BE INSTALLED UNLESS APPROVED BY CARSON CITY WATER UTILITY.
  - COUPLING FITTING SHALL CONFORM TO AWWA C800 AND BE A MUELLER H-15451 CTS 110 COMP OR FORD C14-xx-0 QUICK JOINT W/ TUBING LINER X FEMALE IP THREAD OR APPROVED EQUAL.
  - METER PITSETTERS TO BE PLACED 4 INCHES FROM BACK OF SIDEWALK IN AREAS WHERE SIDEWALK IS ADJACENT TO CURB, OR 6 INCHES FROM BACK OF CURB IN AREAS WHERE SIDEWALK IS OFFSET FROM CURB, OR AS DIRECTED BY CARSON CITY WATER UTILITY. IN AREAS WHERE NO CURB OR SIDEWALK IS PRESENT, METER PITSETTERS SHALL BE PLACED WITHIN THE RIGHT-OF-WAY AS SHOWN ON THE APPROVED PLANS.
  - DISCONTINUANCE OF USE OF A SERVICE REQUIRES ABANDONMENT OF THE SERVICE. NOTIFY CARSON CITY PUBLIC WORKS FOR METER REMOVAL PRIOR TO PROCEEDING WITH ABANDONMENT. REMOVE EXISTING METER BOX AND EXPOSE CORP STOP AT MAIN FOR SHUT-OFF. ALL PIPING OR TUBING SHALL BE DISCONNECTED FROM CORP AND PLUGGED AT BOTH ENDS. CARSON CITY PUBLIC WORKS SHALL BE NOTIFIED FOR INSPECTION OF CORP ASSEMBLY PRIOR TO BACKFILLING.

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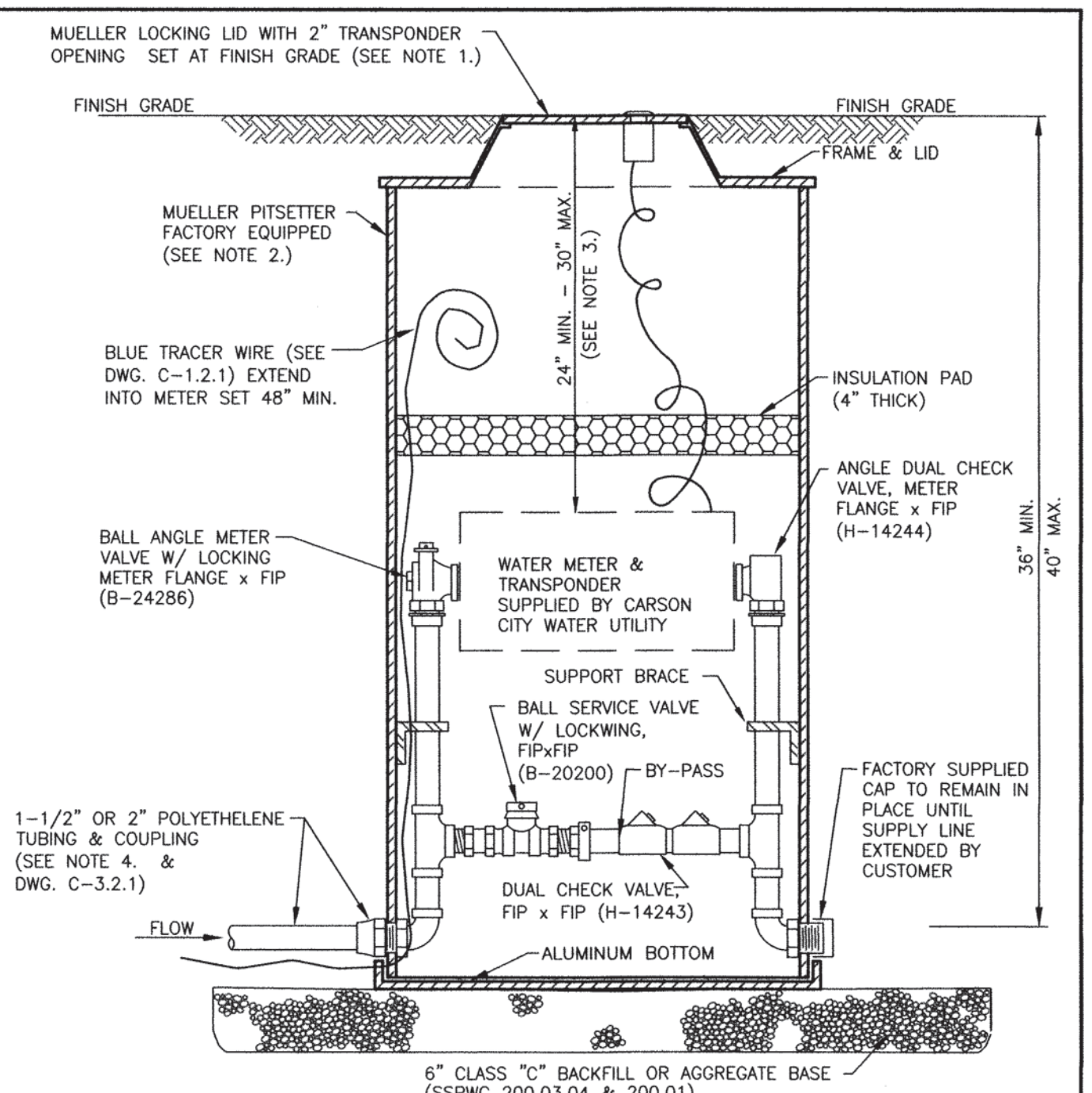
**3/4" TO 2" WATER SERVICE**



- 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.) POTABLE 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) STRAPS(S), BOLTS, NUTS, & WASHERS. ALL STAINLESS STEEL SHALL BE FULLY PASSIVATED.

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**3/4" TO 2" SERVICE SADDLE**



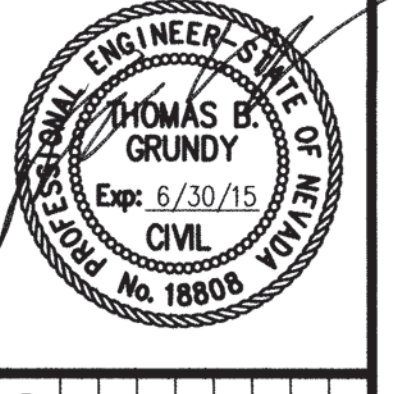
- NOTES:**
- MUELLER 18 INCH LOCKING LID (PART NO. TRPL-780113) AND 27 INCH X 18 INCH FRAME.
  - MUELLER EZ-VAULT METER SETTER-RIGID PVC, FACTORY EQUIPPED AS SHOWN, CONFORMING TO AWWA C800.
  - WATER METER SHALL BE NO MORE THAN 30 INCHES FROM TOP OF LID AND NOT LESS THAN 24 INCHES FROM TOP OF LID.
  - A 2 INCH METER SET REQUIRES A 2 INCH MINIMUM SERVICE LINE.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
			DRAWING NO. C-3.2.5 (203,307)	
			DATE 7/2009	

**1 1/2" - 2" PIT SETTER**

DESIGNED BY: DGR  
 DRAWN BY: DGR  
 CHECKED BY: DA/TG  
 DWG NO.: 2-1302 SITE PLANNING  
 SCALE (HORIZ): N/A  
 SCALE (VERT): N/A  
 PLOT DATE: 6/3/14

**CARSON CITY PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 775-887-2355 FAX: 775-887-2112

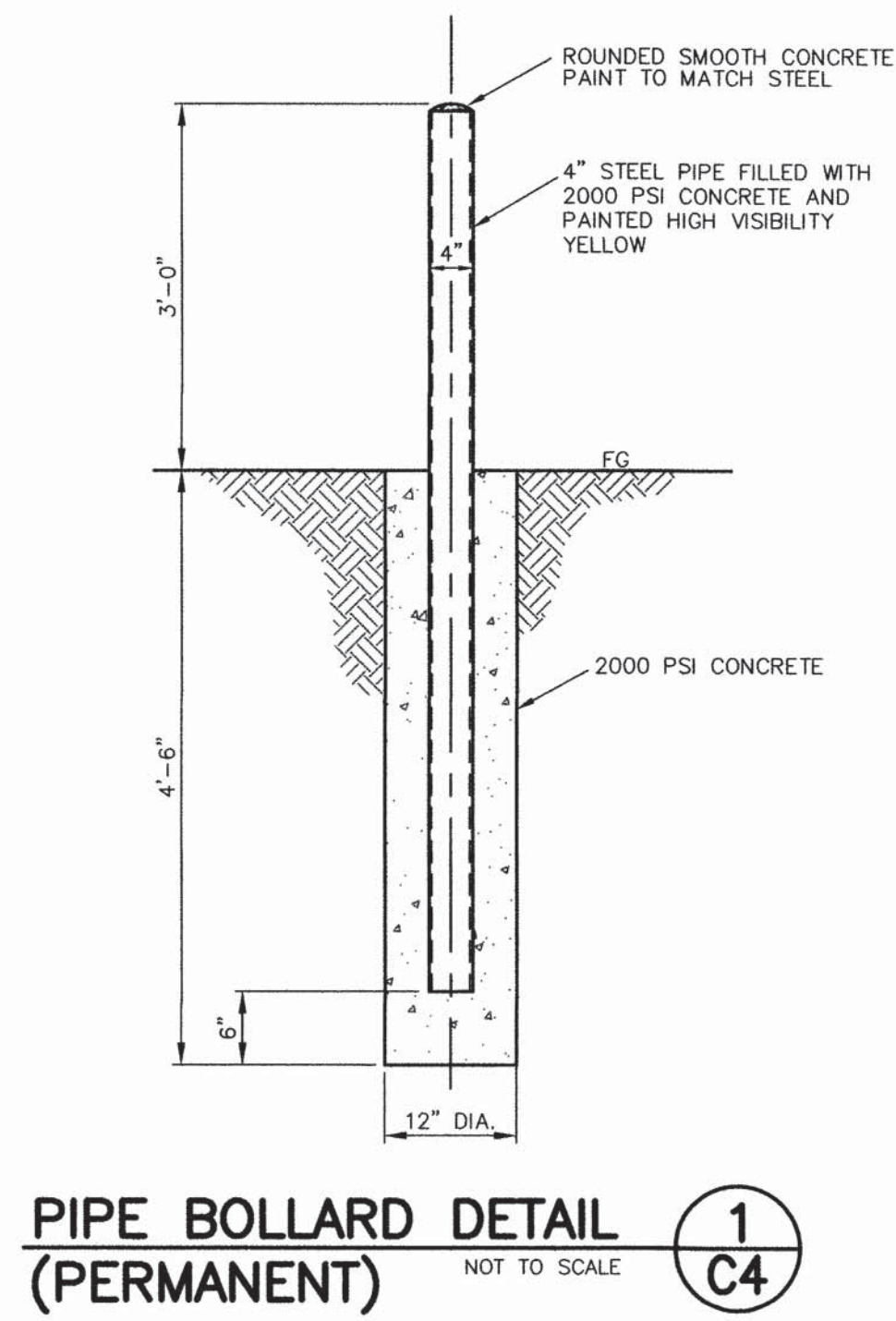
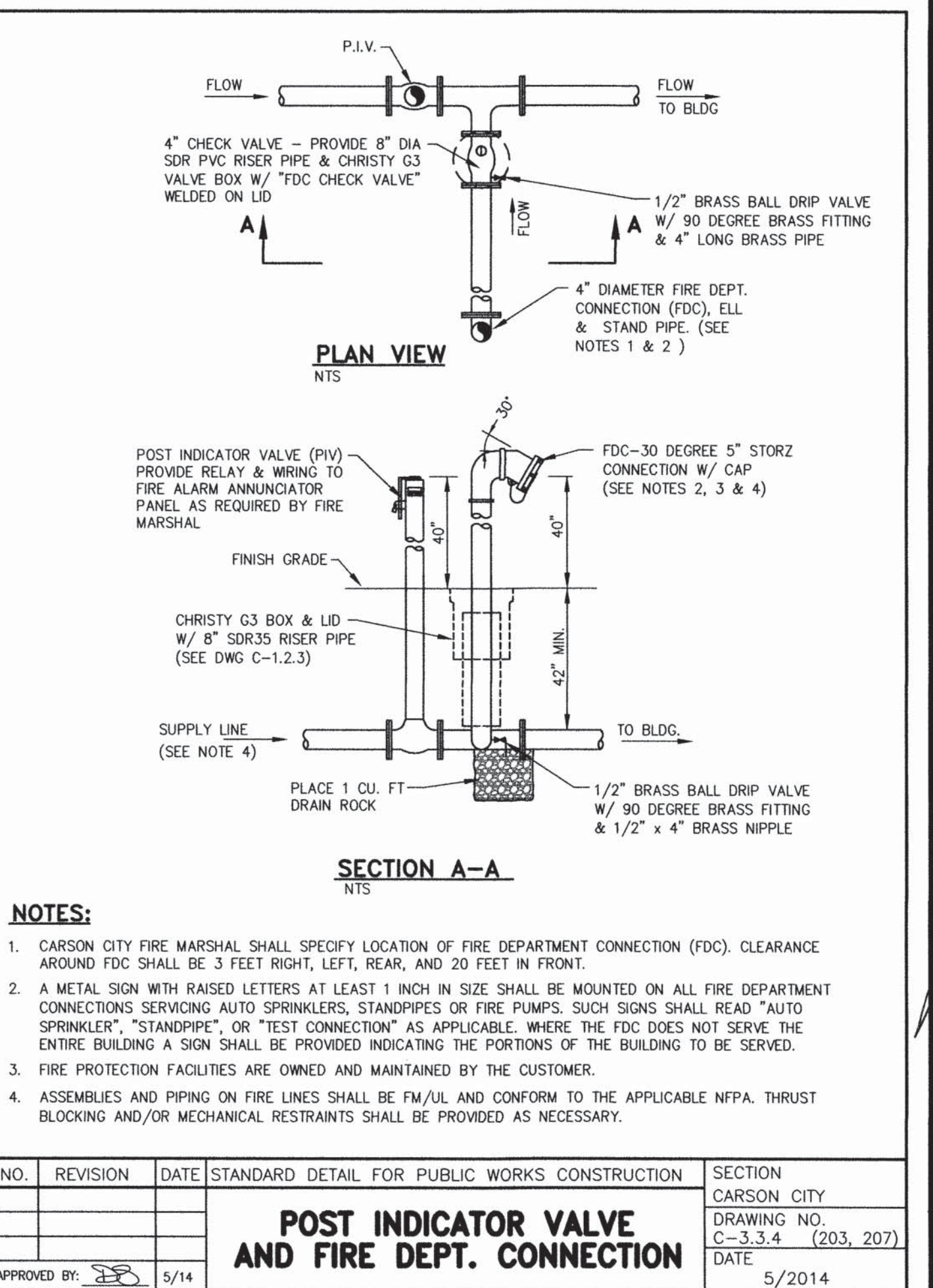
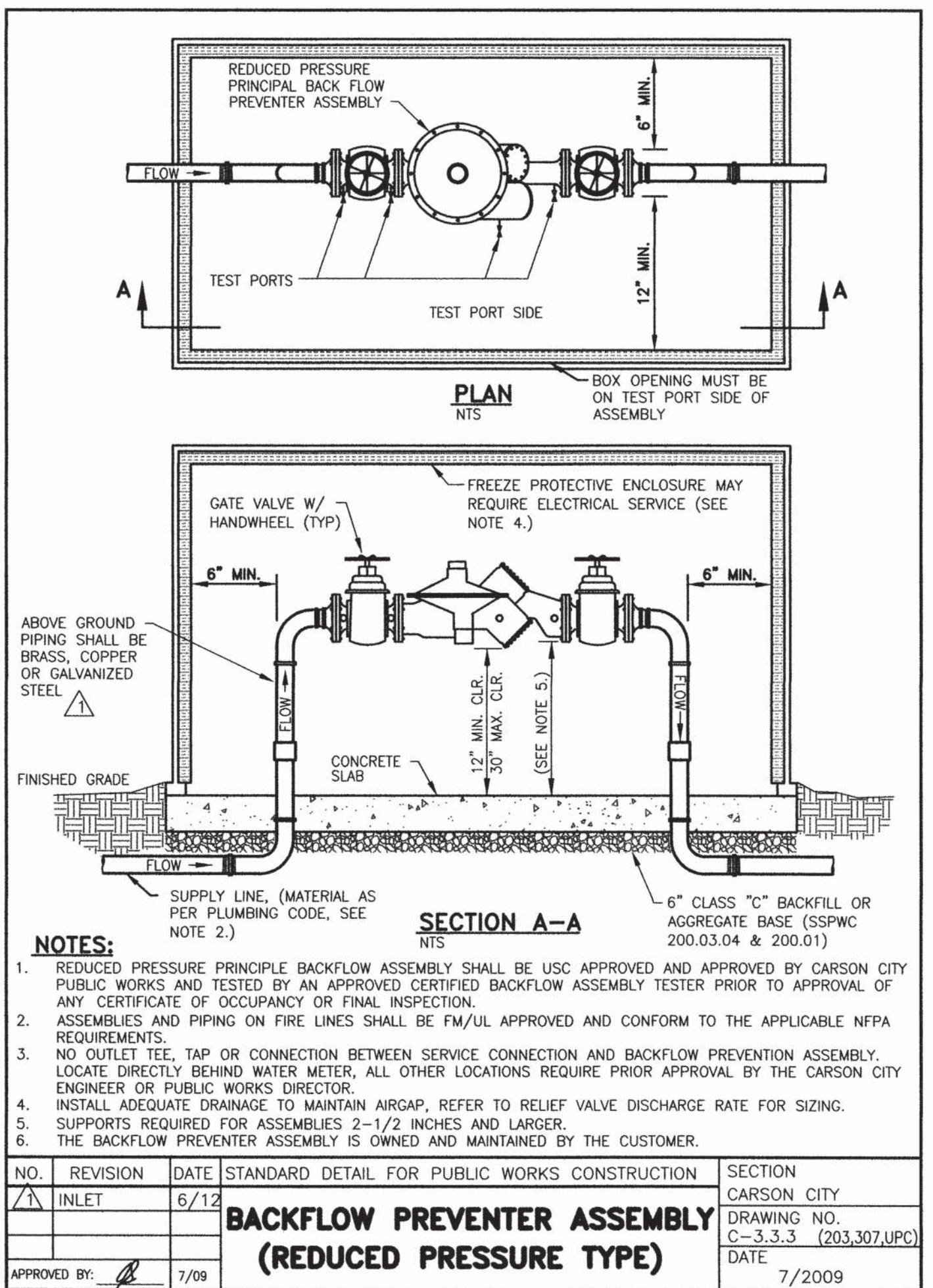
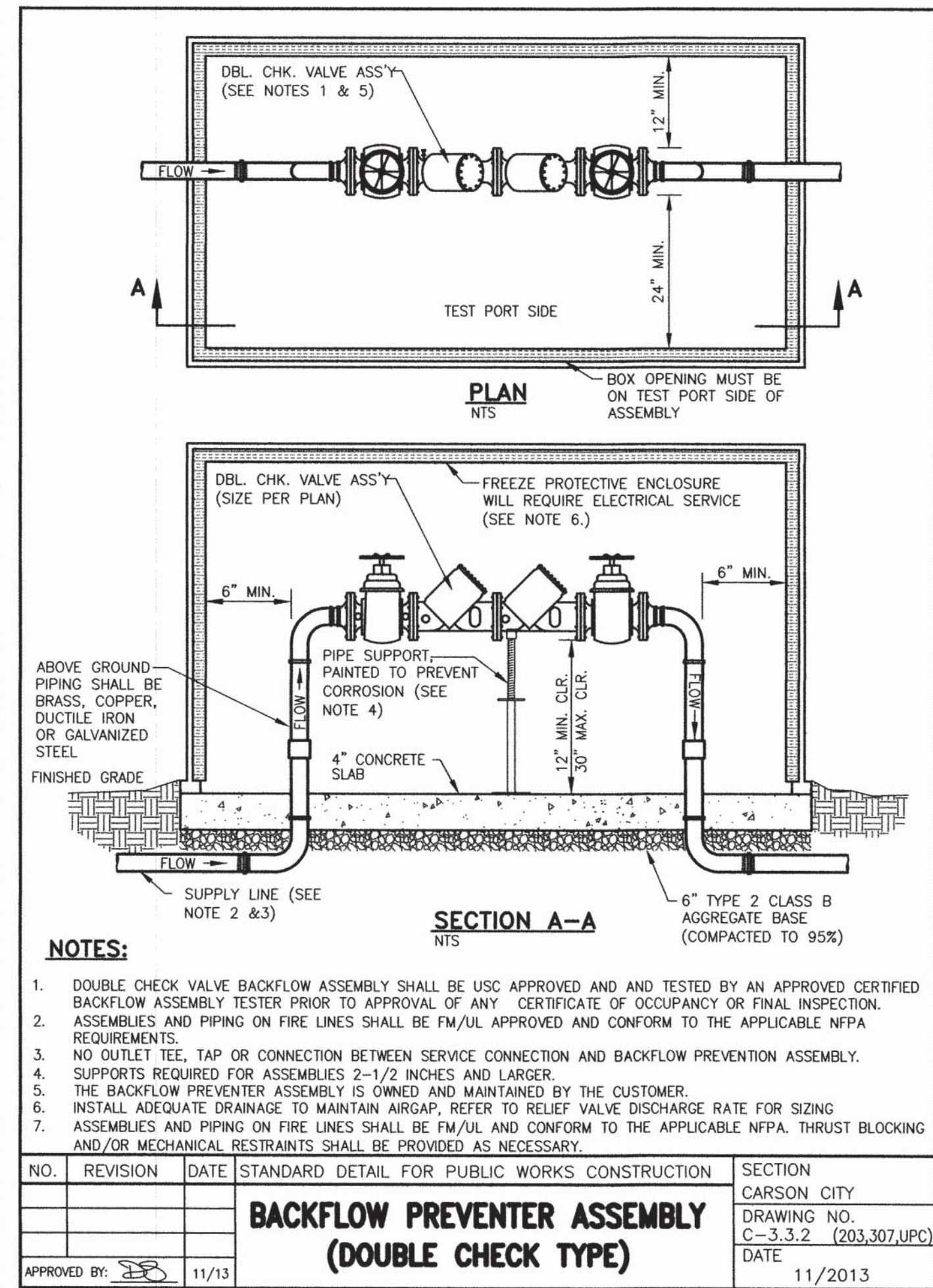
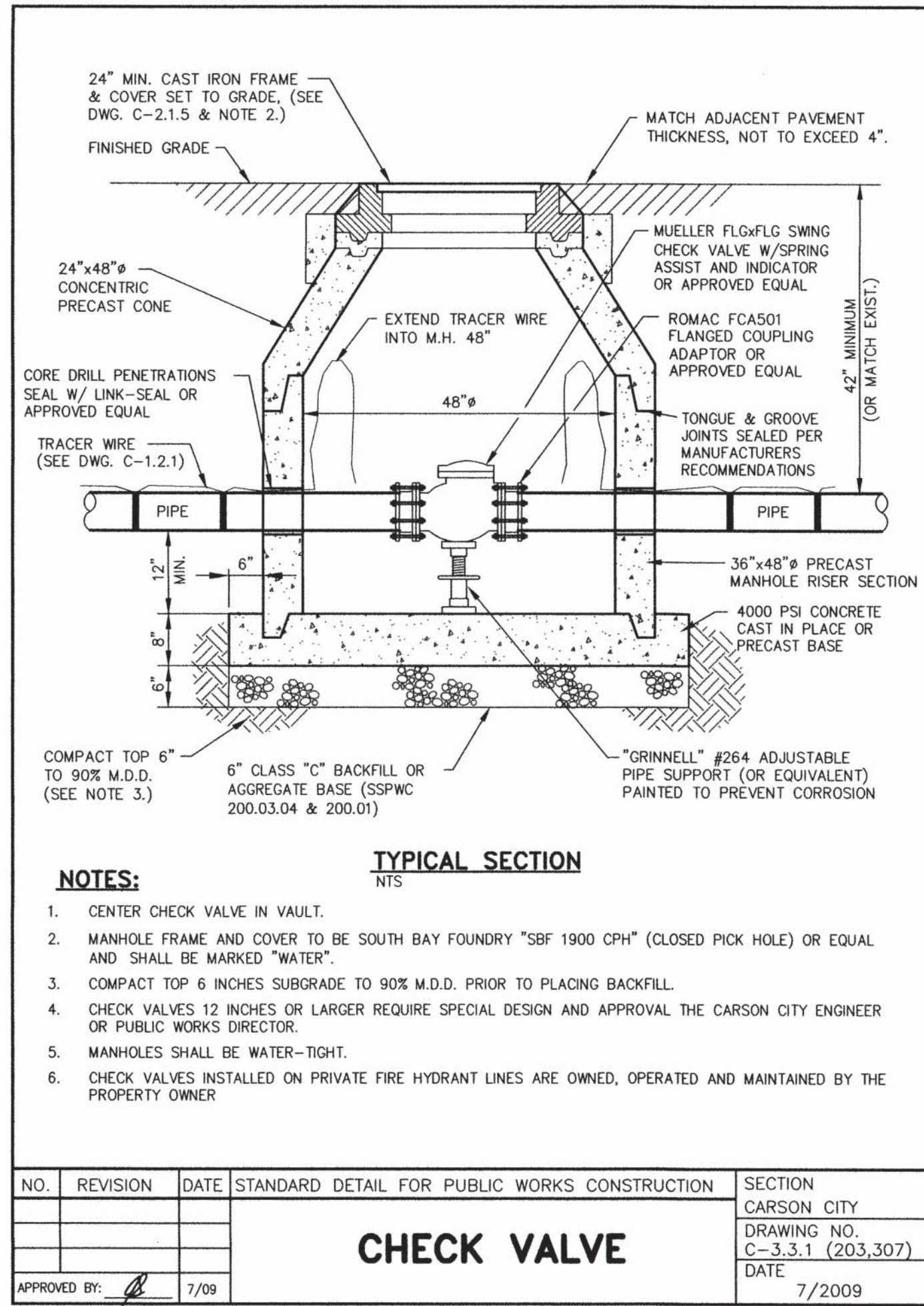


NO.	REVISION	DATE	DESCRIPTION

**CARSON CITY CORPORATION YARD IMPROVEMENTS PROJECT No. 2.1302 FLEET MAINTENANCE EXPANSION CONSTRUCTION DETAILS**

SHEET **C3** OF **49**

FOR BIDDING PURPOSES ONLY



DESIGNED BY: DGR  
DRAWN BY: DGR  
CHECKED BY: DA/TG  
DWG NO.: 2-1302 SITE PLAN/DWG  
SCALE (HORIZ): N/A  
SCALE (VERT): N/A  
PLOT DATE: 6/3/14

**CARSON CITY PUBLIC WORKS DEPARTMENT**

3505 BUTTI WAY CARSON CITY, NEVADA 89701  
PH: 775-887-2355 FAX: 775-887-2112

**THOMAS B. GRUNDY**  
Professional Engineer  
No. 58808  
CIVIL

REV.	DATE	DESCRIPTION	BY	APP'D

**CARSON CITY CORPORATION YARD IMPROVEMENTS PROJECT No. 2.1302 FLEET MAINTENANCE EXPANSION CONSTRUCTION DETAILS**

SHEET C4 OF 49

FOR BIDDING PURPOSES ONLY

I:\CARTAL PROJECTS\Projects\2013\2013-1302 SITE PLAN/DWG - sheet 3, 2014