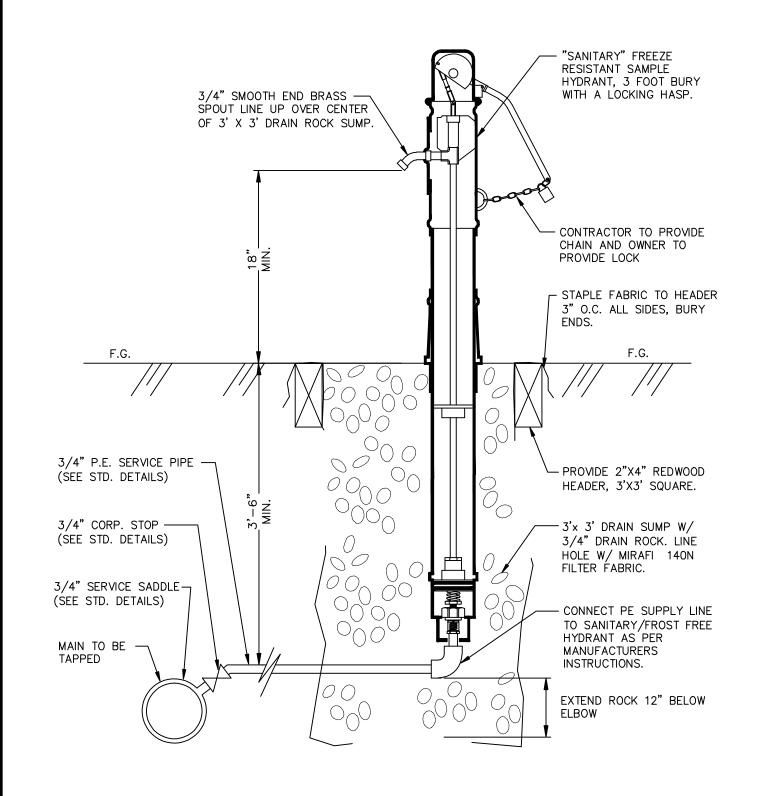


- SIZE AND PRESSURE CLASS AS INDICATED ON THE PLANS, SHALL BE DETERMINED BY THE DESIGN ENGINEER, MINIMUM SIZE 3/4 INCH. CORP BALL VALVE SHALL BE MUELLER B-20013 OR B-2969, OR FORD FB-500-x WITH MALE I.P. THREADS BOTH ENDS OR APPROVED EQUAL, ELBOW COUPLING SHALL BE MUELLER H-15533 FEMALE I.P. THREAD X CTS 110 COMP, OR FORD L14-xx-Q FEMALE IP THREAD X QUICK JOINT, W/ TUBING LINER OR APPROVED EQUAL.
- AIR RELEASE VALVES SHALL BE INSTALLED OUTSIDE PAVEMENT SECTION. SLOPE GROUND AWAY FROM AIR RELEASE VALVE BOX OR CONSTRUCT MINIMUM HEIGHT CURBING TO PROTECT FROM FLOODING BY SURFACE
- 3. ALL PIPES SHALL HAVE POSITIVE SLOPE FROM MAIN LINE TO AIR RELEASE VALVE.
- 4. 1 1/2 INCH TO 2 INCH AIR-RELEASE VALVES REQUIRE A CHRISTY FL36 BOX AND COVER OR APPROVED EQUAL.
- 5. STEEL PIPE PAINT SHALL BE RUST-OLEUM 7400 HIGH GLOSS SAFETY YELLOW ALKYD ENAMEL OR APPROVED

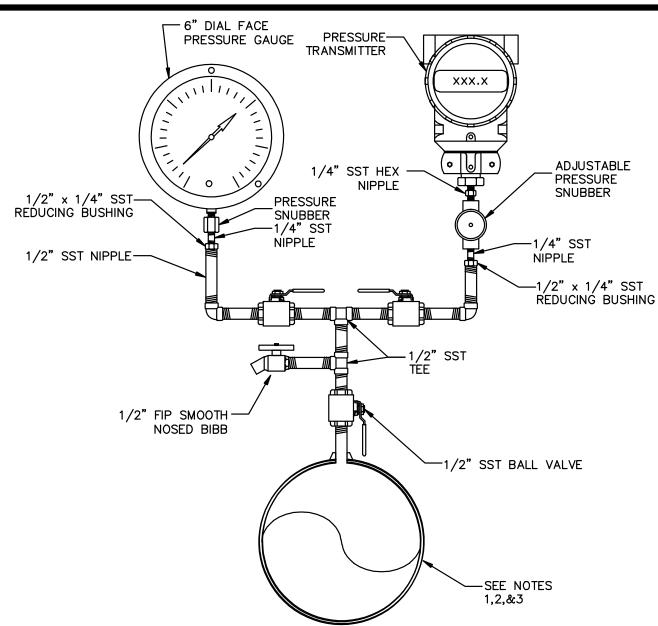
POTABLE AIR RELEASE NOT TO SCALE



- 1. HYDRANT SHALL BE A MURDOCK MODEL M-NPL75 OR APPROVED EQUIVALENT, 3' BURY, WITH A BELOW-GRADE INTERNAL RESERVOIR, A LOCKING HASP AND SMOOTH, PLAIN END SPOUT.
- 2. UNIT SHALL EXTEND BELOW GRADE LEVEL SO THAT SUPPLY INLET, VALVE AND RESERVOIR ARE POSITIONED BELOW FROST LINE.
- 3. DURING SHUTOFF, A PISTON SHALL DRAW WATER FROM THE SUPPLY COLUMN INTO THE RESERVOIR, AND AT NEXT USAGE, THE PISTON SHALL EXPEL THE WATER IN THE RESERVOIR THRU THE NOZZLE BEFORE FRESH WATER FLOWS. THE WATER SUPPLY SHALL BE PROTECTED AGAINST ANY SURFACE OR UNDERGROUND CONTAMINATION.
- 4. HYDRANT SHALL NOT OPERATE USING VENTURI ACTION TO CLEAR WATER TRAPPED IN SUPPLY COLUMN AT

SAMPLING HYDRANT

NOT TO SCALE

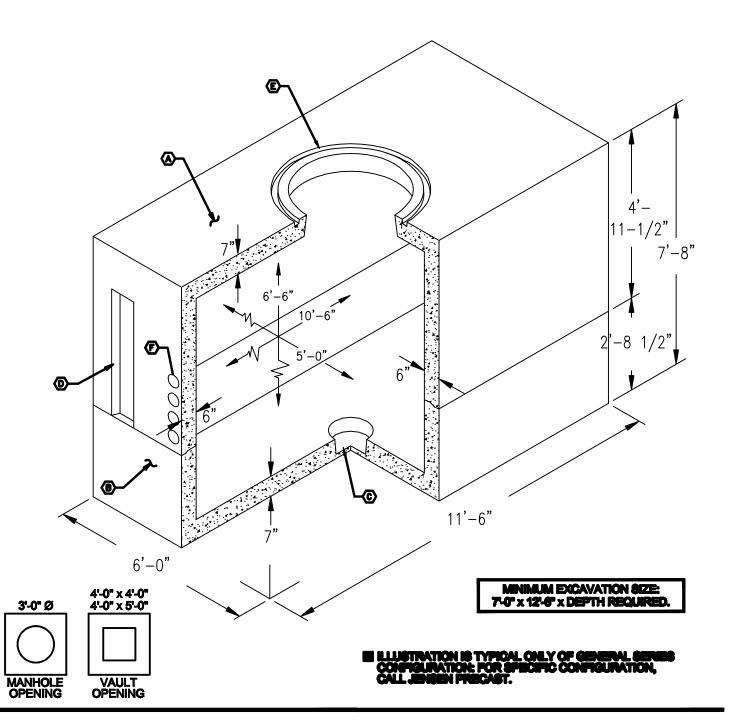


- 1. FOR STL, GALVS & PVC 2 1/2" & SMALLER USE A
- BUSHING IN A TEE 2. FOR DI & FRP, ALL SIZES, USE PIPE SADDLE
- W/BUSHING.
- 3. FOR STL & SST PIPES 3" & LARGER & PRESSURE VESSELS, USE THREAD-O-LET AS SHOWN.

PRESSURE GAUGE & TRANSMITTER

NOT TO SCALE

4. SST = TYPE 304 SST.



- (A) TOP SECTION WT.= 16,250 Lbs.
- (B) BOTTOM SECTION WT.= 11,000 Lbs. © SUMP - VARIOUS SIZES AVAILABLE
- (D) KNOCKOUT VARIOUS SIZES AVAILABLE
- (E) FOR COVERS: SEE COVER AND NECKING SECTION.
- (F) TERMINATORS VARIOUS SIZES AVALIABLE
- DESIGN FOR H-20-44 BRIDGE LOADING.
- MASSEMBLY TO BE PLACED ON A 6" BASE OF CRUSHER RUN FOR EASE OF INSTALLATION AND EVEN LOAD DISTRIBUTION.

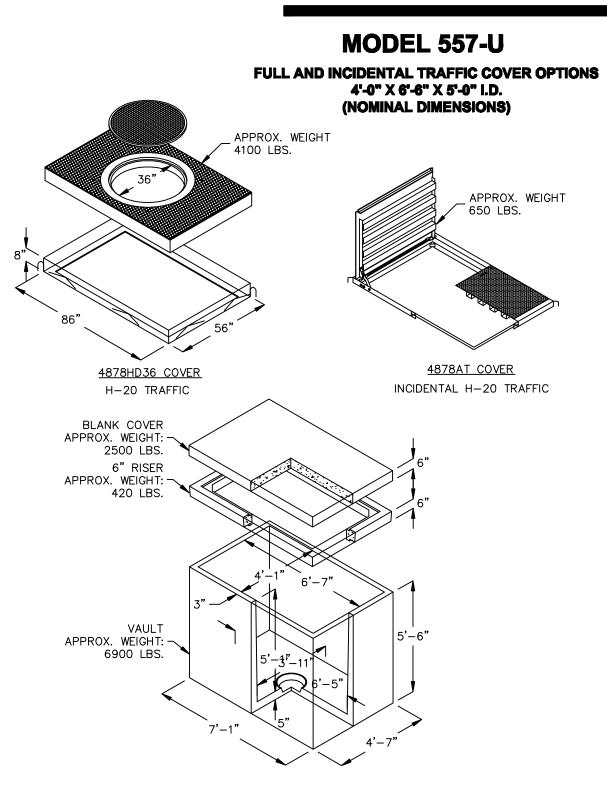
5-6" x 16-6" x 6-6"	JETSET,
MANHOLE / VAULT	PRECAST
01.01.00 RESERVE	5106 SERIES

MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S). PIPE SIZE 8" | 10" | 12" | 14" | 16 90° BEND 25 | 29 | 34 | 39 45° BEND 22-1/2° BEND 11-1/4° BEND BRANCH OF TEE 102 | 122 | 143 | 163 | 184

NOTES:

- 1. FITTINGS SHALL BE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
- 2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN SHOWN IN THE TABLE.
- 3. WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
- 4. IN LINE VALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED.
- 5. LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY EBAA IRON, INC. VER. 6.2, WITH THE FOLLOWING ASSUMPTIONS:
- PIPE MATERIAL: POLY WRAPPED DUCTILE TEST PRESSURE: 150 P.S.I. SOIL TYPE: CL, GRANULAR FILL TRENCH TYPE: TYPE 5 SAFETY FACTOR: 1.5 TO 1 DEPTH OF BURY: 3.5
- 6. LENGTHS SHOWN FOR TEES HAVE A LENGTH ALONG THE RUN OF 18 FEET AND BOTH RUN AND BRANCH OF THE SAME SIZE.

DUCTILE IRON PIPE RESTRAINT JOINT TABLE NOT TO SCALE



FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN PRECAST. 4/26/07 557U_COVER OPTIONS_A.dwg © 2007 Jensen Precast

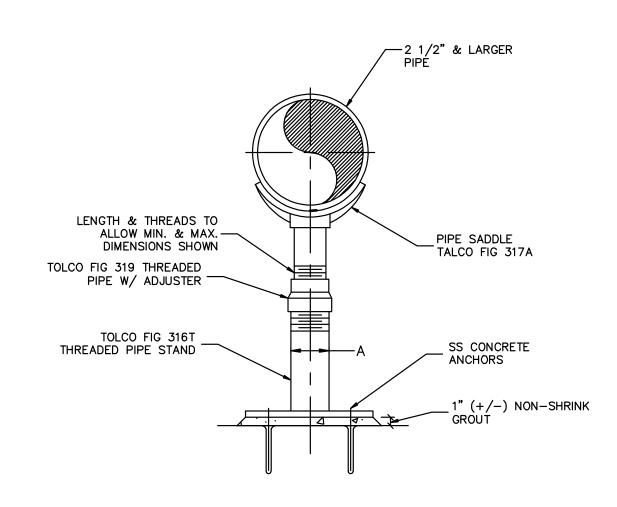
JETSET. PRECAST

5'x10.5'x6.5' VAULT WITH 4878AT COVER

NOT TO SCALE

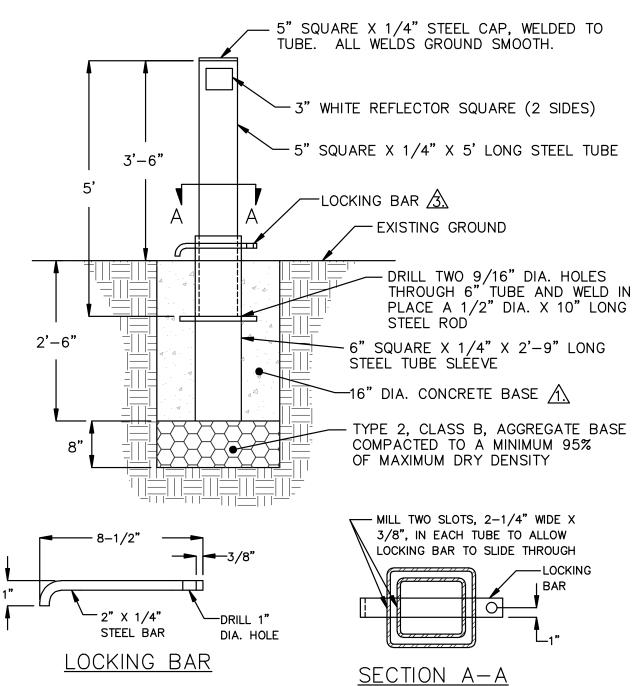
557 VAULT WITH 4878AT COVER

NOT TO SCALE



PIPE SIZE	А	MAX HEIGHT	CONCRETE ANCHOR	EMBED
2-1/2"	2"	6'-0"	1/2"	5"
3"	2"	6'-0"	1/2"	5"
4"	3"	6'-0"	1/2"	5"
6"	3"	6'-0"	1/2"	5"
8"	3"	6'-0"	1/2"	5"
10"	3"	6'-0"	1/2"	5"
12"	3"	6'-0"	1/2"	5"
14"	4"	6'-0"	5/8"	5"
16"	4"	6'-0"	5/8"	5"
18"	6"	6'-0"	3/4"	5"

PIPE SUPPORT NOT TO SCALE



- 1. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 3000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM 6 SACKS OF CEMENT PER CUBIC YARD WITH SLUMP AT 1 TO 4 INCHES. ALL MATERIAL SHALL CONFORM TO SSPWC, SECTION 202.
- 2. ALL WELDS AND BENDS SHALL BE SMOOTH, EVEN AND PAINTED.
- 3. CARSON CITY SHALL PROVIDE THE PADLOCK AND MAINTAIN THE KEYS.

REMOVABLE BOLLARD

NOT TO SCALE

 \mathbf{C} CIT DEP, CARSON WORKS <u>Д</u>

DANIEL L

ROTTER

Exp: 12-31-15

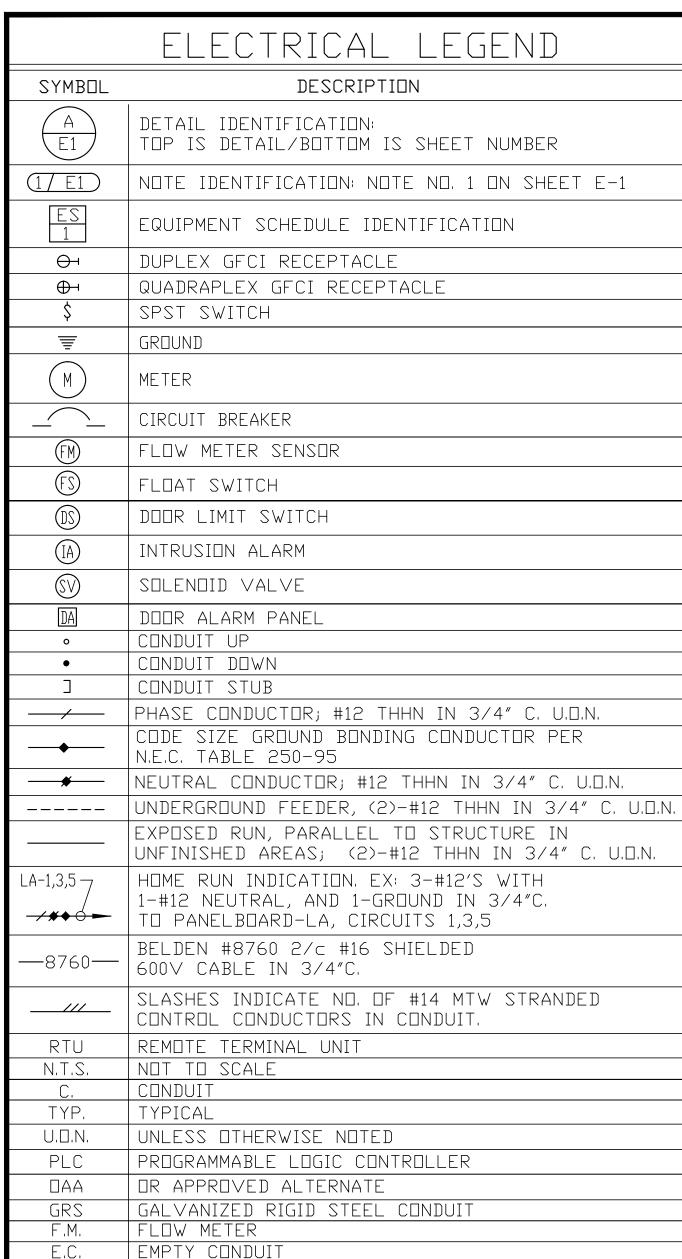
CIVIL

No. 2207

GRANDE

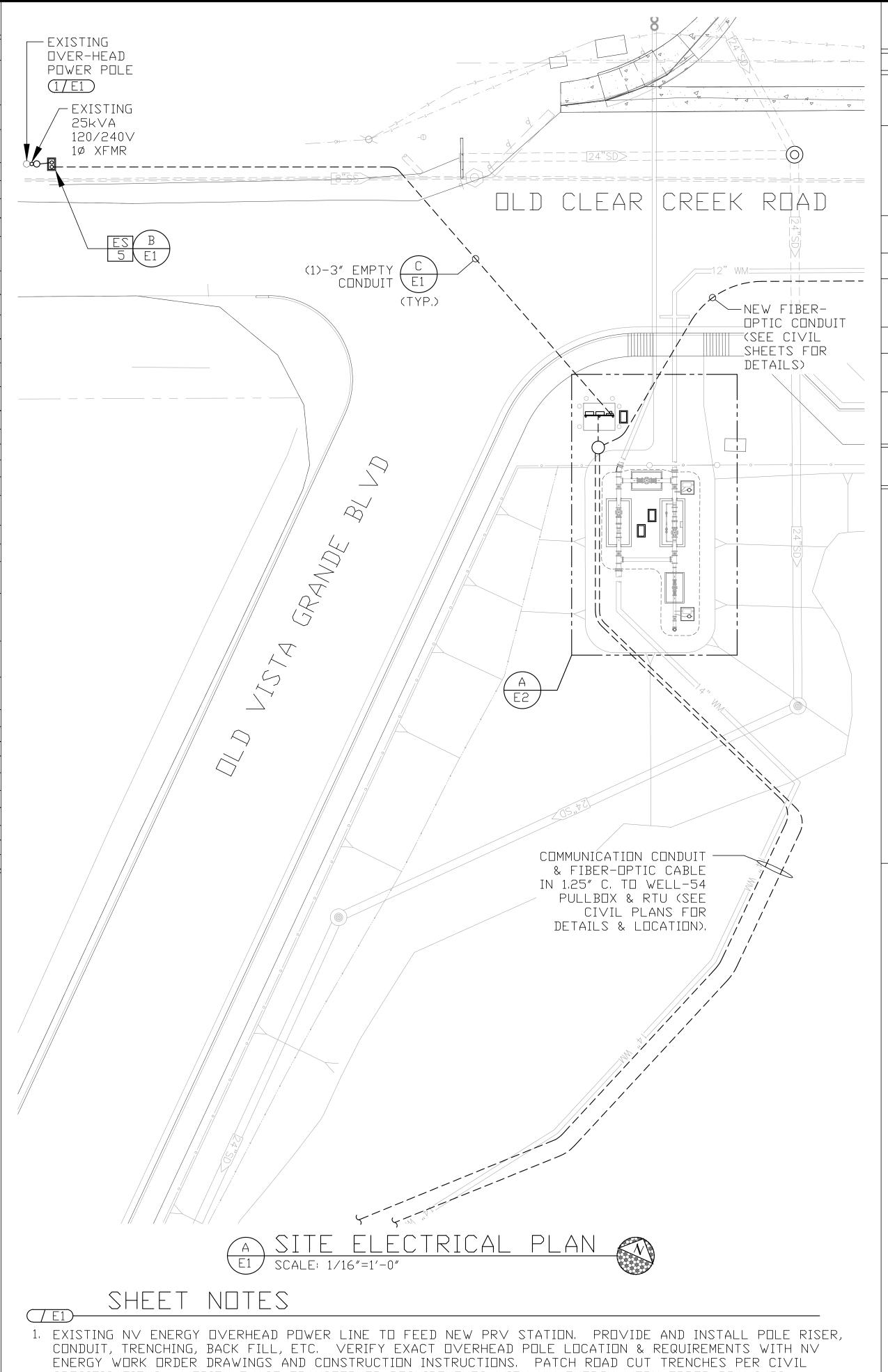
₹

CO INTERTIE PROJECT



GENERAL REQUIREMENTS

- A. FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE ELECTRICAL SYSTEM, ALL WORK SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, NATIONAL BOARD OF FIRE UNDERWRITERS, APPLICABLE LOCAL CODES, AND POWER COMPANY STANDARDS. ALL MATERIAL SHALL BE NEW AND CONFORM WITH THE REQUIREMENT OF THE UNDERWRITER'S LABORATORIES, INC.
- B. POWER CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM. #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS TO BE TYPE "XHHW-2". ALL WIRING SHALL BE INSTALLED IN CONDUIT, CONTROL CONDUCTORS TO BE #16 XHHW-2 STRANDED, ALL EXPOSED CONDUIT SHALL BE RMC, GALVANIZED RIGID STEEL. ALL HORIZONTAL CONDUIT AT OR BELOW 18" TO BE PVC-TYPE SCHEDULE-40, ALL UNDERGROUND ELBOWS TO BE GALVANIZED RIGID STEEL (GRS), ALL METALLIC CONDUITS IN CONTACT WITH EARTH TO BE EITHER PCV-GRSC OR HALF-LAP WRAPPED IN SCOTCH-50 ELECTRICAL TAPE.
- C. SUBMIT SIX (6) COPIES OF SHOP DRAWINGS AND/OR MANUFACTURERS DESCRIPTIVE DATA ON ALL ELECTRICAL EQUIPMENT FOR APPROVAL WITHIN THIRTY (30) DAYS AFTER AWARD OF CONTRACT. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PREPARED BY HIS SUPPLIERS AND SHALL MARK ALL COPIES AS ACCEPTABLE TO HIM. THE CONTRACTOR'S ACCEPTANCE SHALL INCLUDE CERTIFICATION THAT THE REQUIRED ELECTRICAL CONNECTIONS HAVE BEEN NOTED AND THAT EQUIPMENT CAN BE INSTALLED IN THE SPACE AVAILABLE.



SPECIFICATIONS, VERIFY EXACT TRANSFORMER REQUIREMENTS WITH NV ENERGY WORK ORDER DRAWINGS.

E	<u>S</u>	EQUIPMENT SCHEDULE	MJJ MJJ MJJ	N39RP
ITEM	QUANTITY	DESCRIPTION		N39
1	1	100A 120/240V 10 4-JAW NEMA-3R METER-MAIN WITH 100A/2P MAIN BREAKER & 12-CIRCUIT DISTRIBUTION PANEL CONFIGURED PER PANEL SCHEDULE. COOPER/B-LINE #U214MTBL. PROVIDE NEW TYPED PANEL DIRECTORY.	PROJ. MGR.: _ PROJ ASSOC.: _ CHECKED BY: _	NO:E (HORIZ): E (VERT):
2	3	24VDC MAGNETIC FLOW METER TRANSMITTER & SENSOR WITH HART COMMUNICATION, LCD INDICATOR & KEYPAD, INTERNALLY POWERED 4-20mA SIGNAL, CLEAR PLASTIC PROTECTIVE COVER. FOXBORD TUBE PER CIVIL & SITE REQUIREMENTS WITH WALL-MOUNTED 'IMT25' TRANSMITTER & FLOW METER CABLE (LENGTH AS REQUIRED). INCLUDE TOTAL SUBMERGENCE OPTION.	MENT PROJ. 2112	DWG N SCALE 57, NV 89706 PLOT I
3	4	NORMALLY-OPEN 120V POLY-PROPYLENE HERMETICALLY SEALED REDUNDANT HIGH-WATER ALARM FLOAT SWITCH. MJK #202810.	TY PART NEVADA 86 FAX: 887-	LTD Carson Cif PH: (7
4	8	4-20ma pressure transducer. Ashcroft #K17M0242C1 300#.	OE Girv,	
5	4	N-36 TYPE, 17"x30" CONCRETE PULLBOX, EXTENSION, AND LID. JENSEN PRECAST #N36 BOX, #N36D LOCK-LID, AND #N36X12 EXTENSION WITH PENTA-HEAD BOLTS.	SON 2KS carson	ULT 17, Suite 12
6	4	24VDC MAGNETIC SWITCH INTRUSION ALARM WITH ALUMINUM BODY.	ARS VORK WAY C	N N N N N N N N N N N N N N N N N N N
7	2	RTU & FLOW-METER CONTROL ENCLOSURE. HOFFMAN #A30H24CLP WITH #A30P24 BACKPANEL AND HOFFMAN #A-LFSWD DOOR SWITCH.	CA C W C W C BUTIL V	CO tive Point 882–5630
8	2	FIBERGLASS/POLYMER CONCRETE PULLBOX WITH SPLICE TRAY & PENTA-HEAD BOLTS, NEW BASIS #FCA400046T-00006 WITH COVER NAMEPLATE "FIBER OPTIC."	PUBLI(3476 Executiv PH: (775) 86
REM		CONTRACTOR TO COORDINATE EQUIPMENT SCHEDULE QUANTITIES WITH ELECTRICAL DRAWINGS AND MODIFY AS REQUIRED.	NG	EER
Π		ES 5 24" FINAL GRADE	JEN Exp. 6- Vo. E.2	TRICAL 21/14
		NATIVE BACKFILL BACKFILL	BY APP.	
		6" SAND ~13" 3" SAND NATIVE SOIL	DESCRIPTION	
		B 17"×30" PULLBOX DETAIL E1 SCALE: 1"=1'-0"	DATE	
			DA	
		~18" (MIN.) FINISHED GRADE ~12" (MIN.) FINISHED GRADE	REV.	
		FINISHED GRADE NATIVE BACKFILL 18" MIN. FINISHED GRADE NATIVE BACKFILL 12" MIN. 12" MIN.		Ž, N
_	38"	MIN. 18" MIN. ELECTRICAL WARNING TAPE	SNO	E PLAN, DETAILS
5	0" MIN.	ELECTRICAL WARNING TAPE 6" MIN. SAND	STATIONS 9RP	SITE, & D
	1a	2" MIN. (MIN.) 3" (MIN.)	PRV N3	'NOTES, HEDULE,
	6" MIN	SAND SAND	GRANDE CT No:	END/
C E1) SE DE	CONDARY TRENCH SCALE: 1"=1'-0" Know what's below.	VISTA PROJE	J – L JUIPME
		RENCH REQUIREMENTS SHOWN. MODIFY IDTH AS NECESSARY FOR ADDITIONAL Call before you dig.		

Reno, Nevada 89521-2968

Electrical Engineers

Fax (775) 852-3388

web: www.jeneng.com

SHEET

— OF-

9655 Gateway Drive

email: jeneng@nvbell.net

Ph. (775) 852-2288

____ ENGINEERING

CONDUITS. PROVIDE AND INSTALL PULL-LINE IN ALL

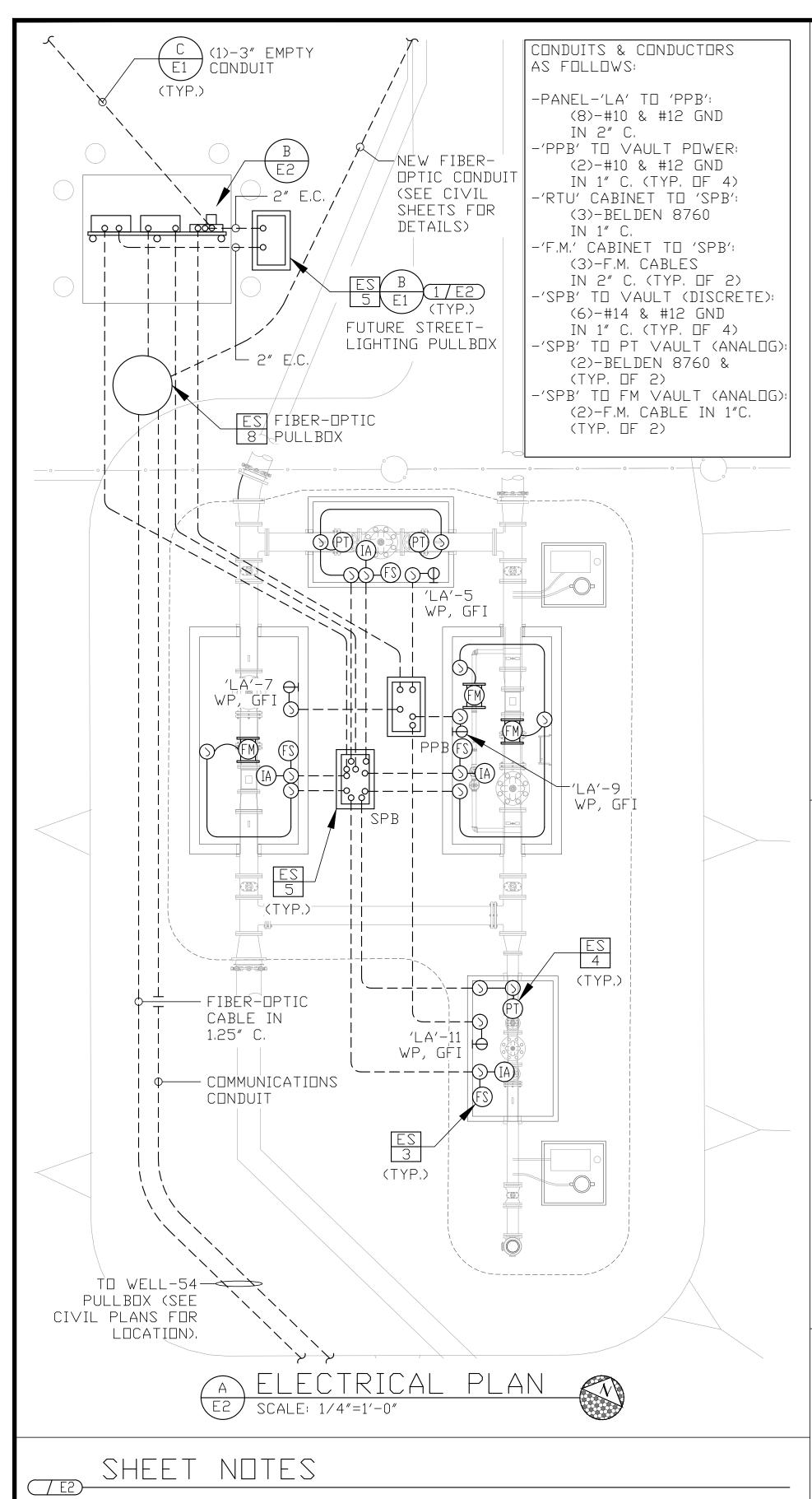
CIVIL SHEETS FOR PAVEMENT PATCH REQUIREMENTS,

EMPTY CONDUITS FOR FUTURE CONDUCTOR PULLS. SEE

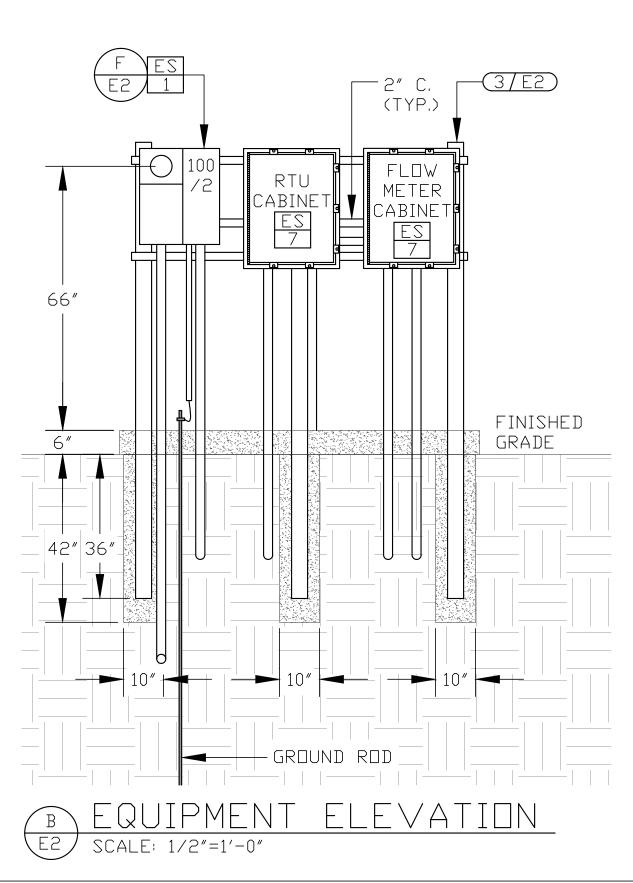
TRENCH WIDTH AS NECESSARY FOR ADDITIONAL

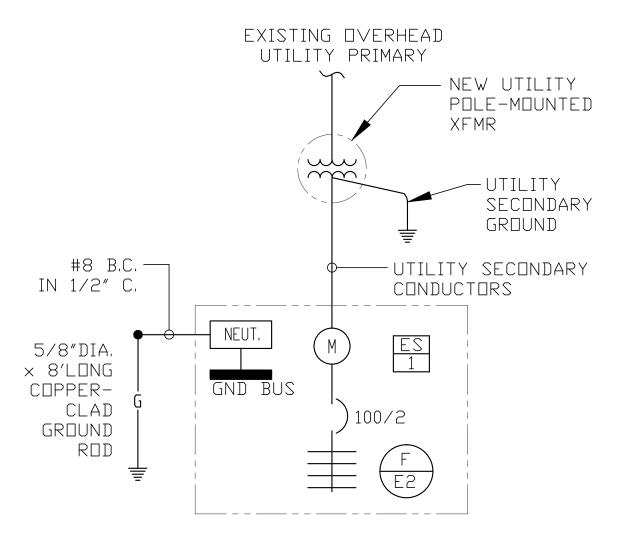
MATERIALS, & PLACEMENT SPECIFICATIONS FOR

BEDDING AND BACKFILL.

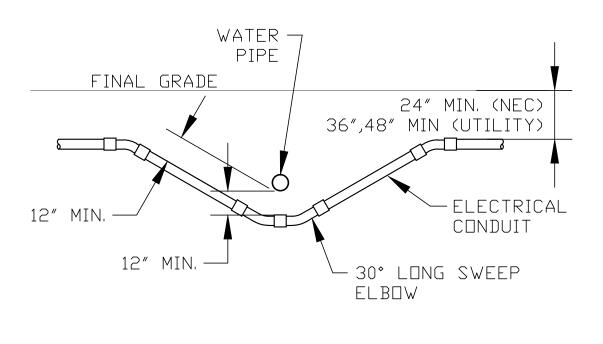


- 1. FUTURE STREET LIGHTING PULLBOX. PROVIDE EMPTY CONDUIT TO PULLBOX FROM PANEL-'LA'.
- 2. VERIFY ALL CONCRETE REINFORCEMENT AND POURING REQUIREMENTS WITH CIVIL / STRUCTURAL SPECIFICATIONS & REQUIREMENTS, FINAL CONCRETE PAD DIMENSIONS SHALL BE MODIFIED TO ACCOMODATE EXACT SUPPLIED EQUIPMENT.
- 3, MOUNT EQUIPMENT ON A RACK COMPRISED OF THREE 4"SQUARE VERTICAL BOX TUBES AND UNI-STRUT HORIZONTAL COMPONENTS. POUR POSTS IN CONCRETE WITH 6" THICK CONCRETE PAD. SEE CIVIL FOR DETAILS.

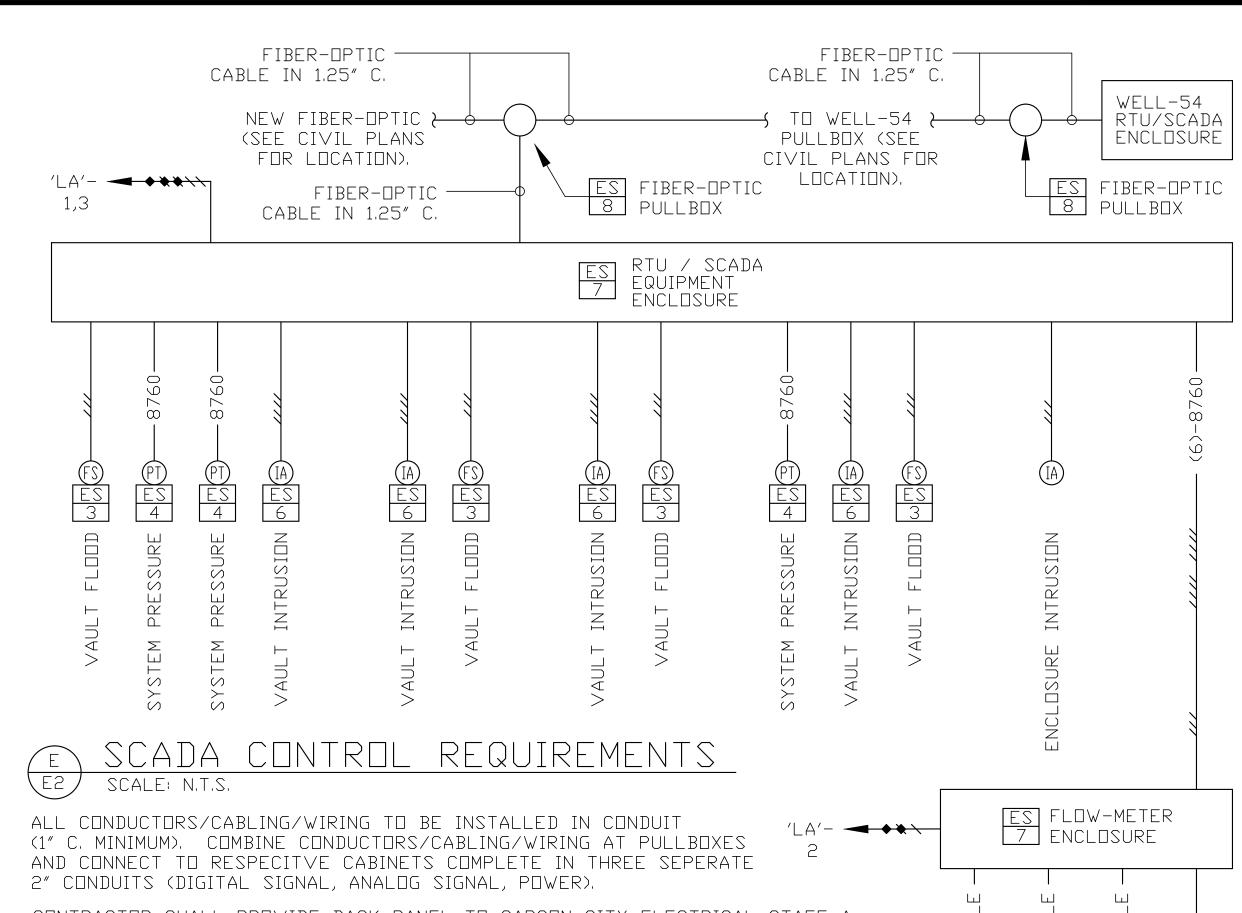




SINGLE-LINE DIAGRAM SCALE: N.T.S.







CONTRACTOR SHALL PROVIDE BACK PANEL TO CARSON CITY ELECTRICAL STAFF A MINIMUM OF 30 DAYS PRIOR TO START-UP, CARSON CITY TO BUILD THE BACKPANEL PROVIDE, PROGRAM, AND INSTALL THE PLC COMPONENTS. CONTRACTOR SHALL INSTALL ALL CONDUIT, RACEWAYS, AND FIELD DEVICES. ALL SIGNALS SHALL BE BROUGHT BACK TO THE RTU PANEL WITH A MINIMUM OF 36" OF SLACK AVAILABLE FOR TERMINATION.

CONTRACTOR SHALL INSTALL IMT-25 4-20mA HART COMMUNICATION FLOW METER TRANSMITTERS IN FLOW METER PANEL AND WIRE TO FIELD INSTALLED FLOW TUBE SENSORS.

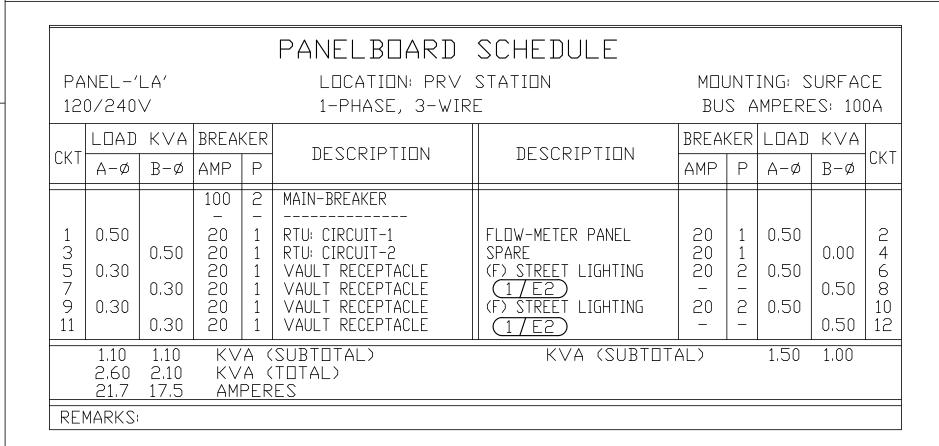
CONTRACTOR SHALL VERIFY ALL ENCLOSURE PENETRATIONS WITH CARSON CITY ELECTRICAL STAFF, ALL PENETRATIONS SHALL INCLUDE WATER-TIGHT HUBS, NO PENETRATIONS SHALL BE MADE IN THE TOPS OF ENCLOSURES.

CONTRACTOR SHALL INSTALL, TEST, AND FURNISH REPORTS FOR A SINGLE-MODE 12-STRAND FIBER-OPTIC CABLE TO BE RUN CONTINUOUS FROM THE NEW VISTA GRANDE RTU TO THE EXISTING WELL-54 RTU(SEE CIVIL PLANS FOR LOCATION). CONDUIT TO FOLLOW ALONG THE 1.25 HDPE INSTALLED AS PART OF CIVIL INSTALLATION. CONTRACTOR TO FURNISH A 12-STRAND PATCH PANEL FOR EACH RTU CABINET. COMPACT FIBER-OPTIC PATCH PANEL SHALL BE SNAP OR SNAP-XL SERIES AS MANUFACTURED BY DINSPACE (OR APPROVED EQUAL).

INSTALL A DIRECT BURY TRACER WIRE ATTACHED TO THE FIBER OPTIC CONDUIT. TRACER WIRE SHALL HAVE A YELLOW JACKET.

INSTALL A FIBER-OPTIC PULLBOX AT WELL-54 AND CONNECT TO EXISTING RTU COMPLETE.

FIBER-OPTIC CONDUIT SHALL ENTER FIBER-OPTIC PULLBOXES THROUGH THE SIDEWALL AT NOT MORE THAN 6" FROM THE BOTTOM OF THE PULLBOX. CONDUITS SHALL NOT ENTER THROUGH THE BOTTOM OF THE PULLBOX. CONDUIT SHALL EXTEND INTO THE PULLBOX 6". WATER-TIGHT SEALING PLUGS ARE REQUIRED AROUND ALL CONDUITS.







ASS TER

Call before you dig. 1 ___ JENSEN ___ ENGINEERING Electrical Engineers

9655 Gateway Drive Reno, Nevada 89521-2968 Ph. (775) 852-2288 Fax (775) 852-3388 email: jeneng@nvbell.net web: www.jeneng.com

VISTA GRANDE PROJECT No: \sim Ш SHEET 22 — OF-

STATIONS 9RP

PR X

S

ETAIL!

I, DI GRA

PLAN, DIAC

pprox

CITY DEPAR

CARSON WORKS

PUBLIC

- ELECTRICA ELEVATIONS,

NO

- ALL WORK SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (SSPWC) AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" (SDPWC) AS ADOPTED BY CARSON CITY. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR PUBLIC WORKS CONSTRUCTION FROM THE CARSON CITY PERMIT CENTER PRIOR TO THE START OF
- ALL TRAFFIC CONTROL AND BARRICADING WITHIN THE CARSON CITY RIGHT-OF-WAY SHALL CONFORM TO SECTION 100.33, 332.04 AND 332.05 OF THE STANDARD SPECIFICATIONS, PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE UNR T2 CENTER, TEMPORARY TRAFFIC CONTROL GUIDELINES LATEST EDITION. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CARSON CITY ENGINEERING DIVISION PRIOR TO ANY STREET CLOSURES.
- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT "CALL BEFORE YOU DIG" (811) OR (1-800-227-2600) AT LEAST TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION AND COMPLY WITH THE REQUIREMENTS OF NRS AND NAC 455 THROUGHOUT THE COURSE OF THE WORK, SEWER SERVICE LATERALS ARE NOT OWNED OR MARKED BY CARSON CITY.
- THE CONTRACTOR SHALL CALL THE CARSON CITY ENGINEERING DIVISION (887-2300) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL ONE (1) WORKING DAY PRIOR TO REQUIRED INSPECTIONS AND TESTING. THE REQUIRED INSPECTIONS AND TESTING ARE LISTED ON THE INSPECTION RECORD ISSUED WITH EACH PERMIT. THE CONTRACTOR MUST HAVE THE PERMIT NUMBER AND THE DESCRIPTION LISTED ON THE INSPECTION RECORD TO SCHEDULE REQUIRED INSPECTIONS AND TESTING. FOR CITY CONTRACTED PROJECTS, THE CONTRACTOR SHALL SCHEDULE INSPECTIONS PER THE CONTRACT DOCUMENTS.
- FINAL INSPECTIONS WILL BE PERFORMED BY CARSON CITY ENGINEERING DIVISION ACCORDING TO THE CARSON CITY INSPECTIONS AND TESTING PROCEDURES. NOTE: THESE PROCEDURES REQUIRE SUBMITTAL OF RECORD DRAWING PRINTS BY THE CONTRACTOR AND 10 WORKING DAYS TO PREPARE A FINAL PUNCH LIST. ALL CONDITIONS OF THE FINAL INSPECTION MUST BE COMPLETED PRIOR TO FINAL ACCEPTANCE OR ANY APPROVAL OF A CERTIFICATE OF OCCUPANCY BY THE CARSON CITY ENGINEERING DIVISION.
- MODIFICATIONS TO THE APPROVED PLANS REQUIRES REVIEW AND APPROVAL BY THE CARSON CITY ENGINEERING DIVISION. WORK PERFORMED WITHOUT WRITTEN APPROVAL BY CARSON CITY ENGINEERING WILL REQUIRE REMOVAL AT THE CONTRACTORS EXPENSE.
- THE APPROVED PLAN, PERMIT AND INSPECTION RECORD MUST BE ON THE JOB SITE AT ALL TIMES.
- 8. PLAN APPROVAL FOR SEWER AND WATER CONSTRUCTION SHALL EXPIRE ONE YEAR FROM DATE OF APPROVAL UNLESS CONSTRUCTION HAS BEEN INITIATED. (CCMC 12.06.180F, 12.01.140D)
- THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ACQUIRING A STORMWATER DISCHARGE PERMIT FROM THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP) INCLUDING DEVELOPING, SUBMITTING AND IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL DEVELOP, PLACE AND MAINTAIN STORM WATER PROTECTION DEVICES IN COMPLIANCE WITH THE NEVADA CONTRACTORS FIELD GUIDE FOR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (JUNE 2008).

REVISION DATE STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION SECTION

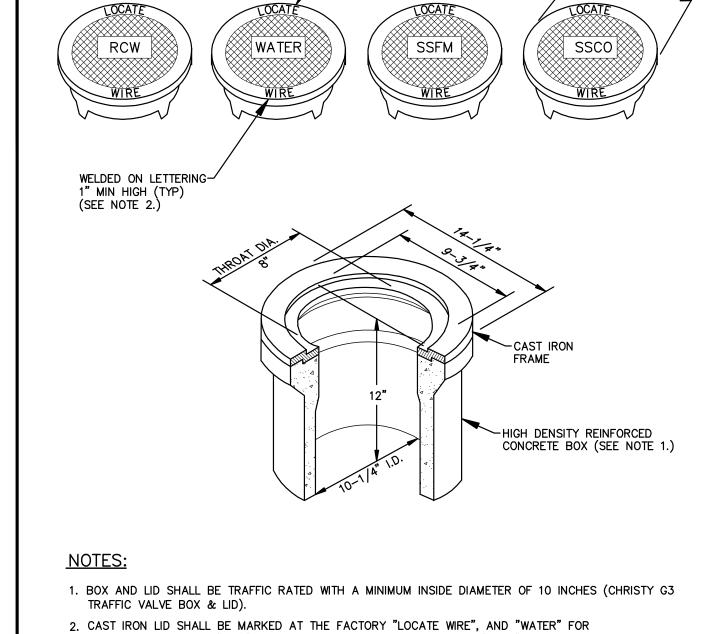
PPROVED BY: 🍂 7/09

PPROVED BY: 💋 | 07/09 |

GENERAL NOTES

	BACKFILL TO SUBGRADE IF TRENCH IS IN AN EXISTING PAVEMENT. BACKFILL TO ORIGINAL GROUND IF TRENCH IS OUTSIDE EXISTING PAVEMENT (SEE NOTES 1., 2. & 6.) WARNING TAPE - NON METALLIC (SEE NOTE 7.)
	TRACER WIRE FOR WATER LINES, RECLAIMED WATER LINES, SEWER FORCE MAINS AND SEWER LATERALS (SEE NOTE 8.) BEDDING MATERIAL - CLASS "A" 6"MIN
	TRENCH SUBGRADE (SEE NOTE 4.) 12" PIPE 12" O.D. MINIMUM TRENCH EXCAVATION LIMITS TYPICAL TRENCH SECTION
I	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 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.
- 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.
- FOR TRENCHES IN ROADWAY SECTION, SEE PAVEMENT PATCH DETAIL (DWG. No. C-5.1.5).
- 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 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 U/L LISTED ELECTRICAL TAPE. TRACER WIRE COLOR SHALL BE, BLUE FOR WATER, PURPLE FOR RECLAIMED WATER, AND GREEN FOR SEWER.



TYP. (SEE NOTES 1.,

2. AND 3.)

(TYP)

WATER APPLICATIONS, "RCW" FOR RECLAIMED WATER APPLICATIONS, "SSFM" FOR SANITARY SEWER FORCE MAIN APPLICATIONS, AND "SSCO" FOR SANITARY SEWER CLEANOUT

APPROVED BY:

- 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.

VISION	DATE S	TANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION		NO.	REVISION	DATE	STANDARD	DETAIL F
			CARSON CITY						
		LINE LOCATION	DRAWING NO.					LINIT	- 10
		BOX & LID	C-1.2.2 (306,307) DATE	ł				LINE	i LU
: <u>. B</u>	7/09	BOX & LID	7/2009		APPRO\	/ED BY:	07/09		
- 1						•		•	

TRENCH EXCAVATION AND BACKFILL

CARSON CITY

7/2009

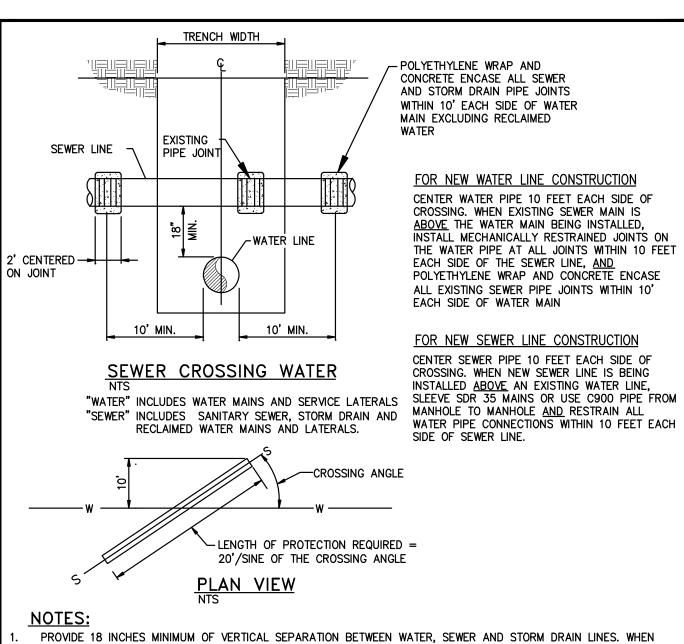
7/2009

DRAWING NO.

C-1.1.1

- 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.
- 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.
- 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.
- 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.
- WATER VALVE MARKERS SHALL BE BLUE CARSONITE UTILITY MARKER (CUM-375), 5 FEET-2 INCHES (5'-2") WITH CARSON CITY WATER VALVE DECAL (CWV-116) OR APPROVED EQUAL. PLACE MARKER NO MORE THAN 5 FEET FROM THE VALVE OR AS DIRECTED BY THE CARSON CITY INSPECTOR.
- 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.
- ALL WATER MAIN, WATER/FIRE SERVICE, AND BACKFLOW PREVENTION INSPECTIONS AND TESTING MUST BE APPROVED PRIOR TO APPROVAL OF ANY CERTIFICATE OF OCCUPANCY.
- DISINFECTION TABLETS SHALL BE PLACED USING TITEBOND MULTI-PURPOSE CLEAR 100%% SILICONE OR APPROVED EQUAL FOOD GRADE SILICONE

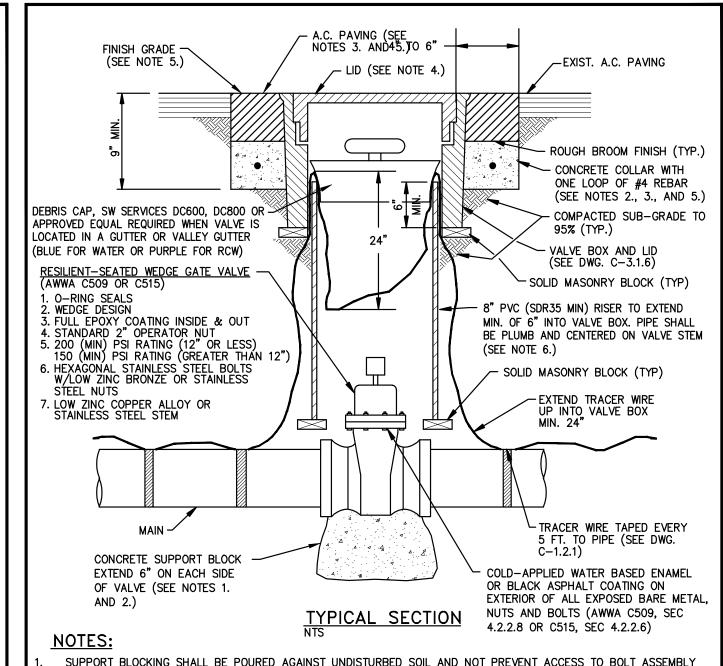
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
			l WATER	DRAWING NO.
			GENERAL NOTES	C-3.1.1 (307) DATE
ADDDO	(ED DV: 10)	/	I GENERAL NOTES	7/0000



SEPARATION CANNOT BE OBTAINED, AND IN CASES WHERE WATER LINES MUST BE ROUTED UNDER EXISTING SEWER OR STORM DRAIN LINES, LOWER WATER MAIN PER STANDARD DETAIL NO. C-3.1.8 OR C-3.1.9 IF TRENCH WIDTH EXCEEDS 36 INCHES, THEN PROVIDE CONCRETE SUPPORT PER STANDARD DETAIL DRAWING NO. 2-17.

- WATER AND WASTEWATER LATERALS SHALL BE PE TUBING CONFORMING TO AWWA STANDARD C901-02 AND
- IF WATER LINE IS 18 INCHES OR GREATER ABOVE THE SEWER LINE OR STORM DRAIN LINE, NO SPECIAL CONSTRUCTION
- ALL PROVISIONS ABOVE SHALL APPLY FOR CROSSINGS TO THE POINT AT WHICH THE 10 FOOT SEPARATION BETWEEN THE WATER AND SEWER OR STORM DRAIN LINE IS ACHIEVED (10 FEET/SINE OF CROSSING ANGLE).
- FOR PURPOSES OF SEPARATIONS AND PROTECTION OF THE WATER SUPPLY, A RECLAIMED WATER LINE SHALL BE CONSIDERED A SEWER LINE. NO CONCRETE SHALL BE PLACED ON RECLAIMED WATER PIPE JOINTS.
- ENCASEMENT SLURRY BACKFILL SHALL BE TYPE B (NON-EXCAVATABLE) WITH A MINIMUM COMPRESSIVE STRENGTH AT
- 28 DAYS OF 3000 (PSI) AND MEET THE REQUIREMENTS OF TABLE 337.08.01-I.

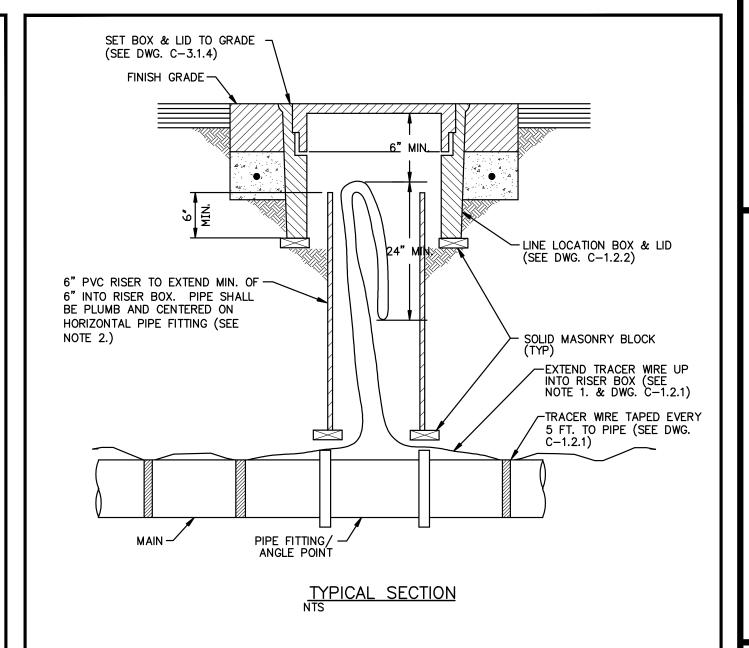
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			WATER CROSSING	CARSON CITY
			GRAVITY SANITARY SEWER	DRAWING NO. C-3.1.2
				DATE
APPROV	ED BY:	•	AND STORM DRAIN	4/2009



SUPPORT BLOCKING SHALL BE POURED AGAINST UNDISTURBED SOIL AND NOT PREVENT ACCESS TO BOLT ASSEMBLY

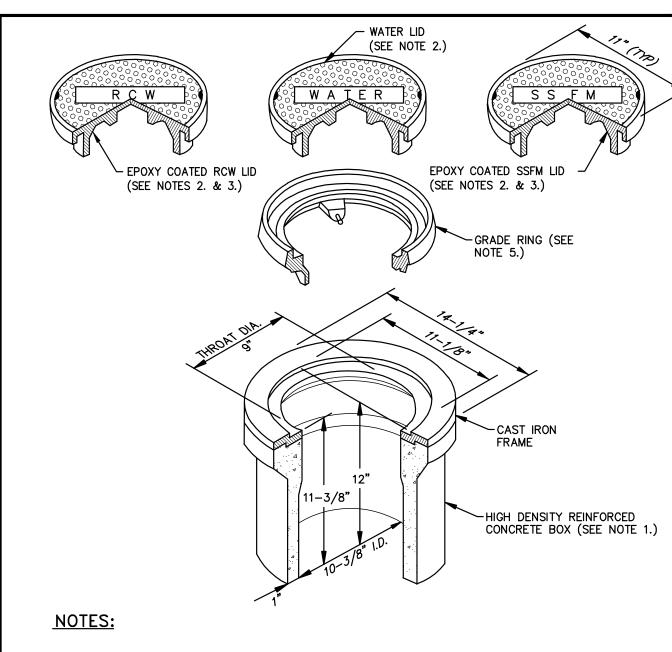
- CONCRETE SHALL CONFORM TO THE SSPWC SECTION 337.10. REBAR SHALL ONLY BE USED WHEN THE VALVE BOX IS LOCATED OUTSIDE PAVED AREAS. THE CONCRETE COLLAR SHALL BE LEFT 2 1/2 INCHES - 3 INCHES BELOW FINISHED ASPHALT SURFACE. APPLY AN APPROVED TACK COAT (CONFORMING TO THE SSPWC SECTION 316) AND FILL VOID BETWEEN 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
- 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 PLAN 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.

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



- 1. WIRE SHALL BE CONTINUOUS IN RISER AND SHALL NOT BE SPLICED WITHIN 10 FEET OF RISER.
- 2. RISER COLOR SHALL BE BLUE, OR SAME COLOR AS MAIN FOR WATER APPLICATIONS, PURPLE FOR RECLAIMED WATER APPLICATIONS, AND GREEN FOR SANITARY SEWER APPLICATIONS.

١٥.	REVISION	DATE	STANDARD [DETAIL FOR PUBLIC WORK	KS CONSTRUCTION	SECTION
						CARSON CITY
			LINE	LOCATION	DICED	DRAWING NO.
				LOCATION	バコピバ	C-1.2.3 (203,306) DATE
PPROV	/ED BY:	07/09				7/2009



- VALVE BOX AND LID SHALL BE H20 TRAFFIC RATED WITH A MINIMUM INSIDE DIAMETER OF 10 INCHES (CHRISTY G5 TRAFFIC VALVE BOX & LID).
- 2. CAST IRON LID SHALL BE MARKED AT THE FACTORY "WATER" FOR WATER APPLICATIONS, "RECLAIMED WATER" OR "RCW" FOR RECLAIMED WATER APPLICATIONS, AND "SS FORCE MAIN" OR "SSFM" FOR SANITARY SEWER APPLICATIONS.
- 3. 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.
- 4. 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. 5. 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

		NO.	REVISION	DATE	STANDARD DETAIL	FOR	PUBLIC	WORKS	CONSTRUCTION		
	ſ									CARSON	CITY
$\overline{}$	t				VALV		ROX	٥c	ווח	DRAWING C-3.1.6	NO. (203,306,307)
4					VALV		DUA	α	LID	DATE	(203,300,307)
		APPROV	ED BY:	07/09							2009

DEPTH. NO MORE THAN ONE GRADE RING ALLOWED PER BOX.

31 NEER REBECCA C. BERNIER Exp:12/31/14 CIVIL 19279

CI PEI

വ

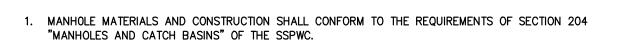
19999

, O

 $\mathbf{z} \circ$

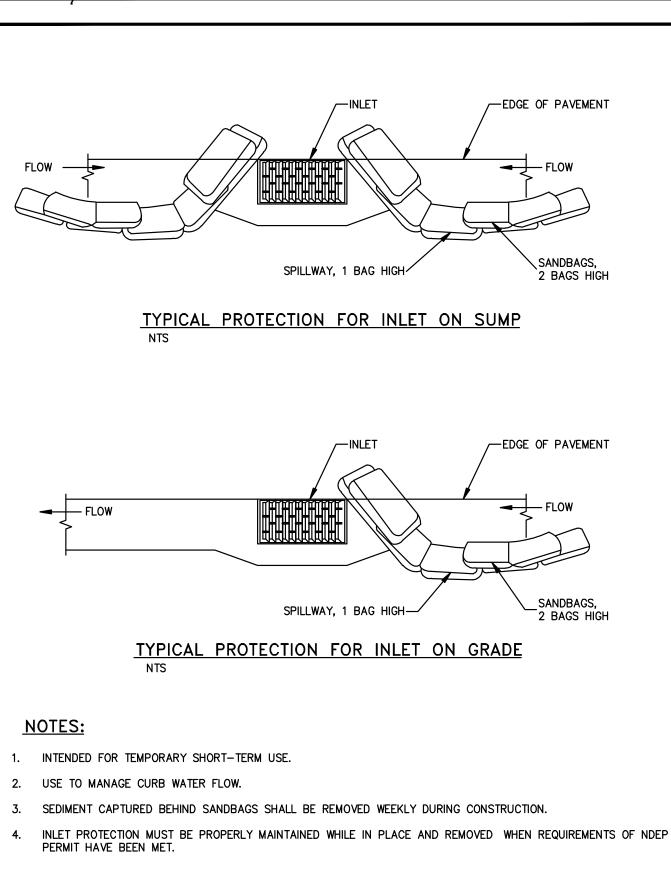
A 0

G

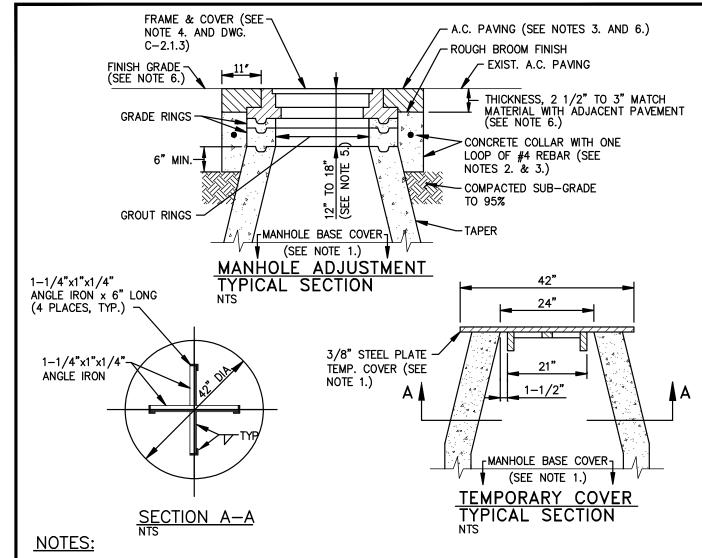


- MARKING TAPE SHALL BE INSTALLED 12 INCHES ABOVE ALL STORM DRAIN PIPE. TAPE WIDTH SHALL BE 3 INCHES; THICKNESS SHALL BE FOUR (4) MIL OR GREATER AND SHALL BE GREEN AND BEAR LARGE PRINTING DENOTING "CAUTION BURIED STORM DRAIN LINE BELOW" OR EQUIVALENT WORDING.
- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS, (CURB AND GUTTER TRANSITION ONLY, ALL UNEXPOSED CONCRETE MAY BE 3000 PSI) MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO
- REINFORCING STEEL SHALL BE GRADE 40 AND HAVE 1.5 INCHES MINIMUM CLEAR COVER.
- EACH CATCH BASIN SHALL HAVE A 4 INCH ALUMINUM BLUE DISK WITH FISH IMAGE AND THE WORDS "NO DUMPING! DRAINS TO RIVER" (ALMETEK SD-4 OR APPROVED EQUAL) INSTALLED ON THE TOP OF
- 6. FRAMES AND GRATES SHALL BE MATCHED TO ACHIEVE A CLOSE TOLERANCE FIT, WITH MINIMAL GAPS, AS APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- 7. STORM DRAINAGE IMPROVEMENTS SHALL INCORPORATE WATER QUALITY AND EROSION CONTROLS IN ACCORDANCE WITH THE NEVADA "HANDBOOK OF BEST MANAGEMENT PRACTICES".
- PRECAST MANHOLES SECTIONS, OTHER THAN GRADE RINGS, SHALL BE JOINED WITH FLEXIBLE PLASTIC GASKET MATERIAL SUCH AS RAM-NEK OR APPROVED EQUAL PER MANUFACTURERS RECOMMENDATIONS.
- 9. TRACER WIRE SHALL BE ATTACHED TO ANY STORM DRAIN LATERAL WHICH IS NOT PERPENDICULAR TO THE STORM DRAIN MAIN.
- 10. MANHOLES LOCATED OUTSIDE PAVED AREAS SHALL REQUIRE ALL WEATHER ACCESS ROADWAY CONSISTING OF 6 INCHES TYPE 2, CLASS B AGGREGATE BASE (CONFORMING TO THE SSPWC SECTION 200.01.02) AND STORM DRAIN MANHOLE MARKERS BE INSTALLED. STORM DRAIN MANHOLE MARKERS SHALL BE GREEN CARSONITE UTILITY MARKER (CUM 375), 5 FEET-2 INCHES (5'-2") WITH DECAL READING "STORM DRAIN MANHOLE". PLACE MARKERS ON EASEMENT LINE NEAREST TO MANHOLE OR AS DIRECTED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- . MANHOLE CONCRETE COLLARS SHALL BE LEFT 2 1/2 INCHES TO 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 AC 20 PAVING (CONFORMING TO THE SSPWC SECTION 320). APPLY FOG SEAL (CONFORMING TO 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 LOCATED IN AN UNPAVED AREA, EXTEND CONCRETE TO FINISH GRADE.
- 12. GRATES SHALL BE PLACED OUTSIDE OF THE PEDESTRIAN TRAVELED WAY. GRATE OPENINGS SHALL NOT EXCEED 0.5 INCHES IN WIDTH OR 4 INCHES IN LENGTH. GRATES SHALL BE TRAFFIC RATED AND ADA

					6.	WHEN LOCATED II SPECIFICATION 60		RIGHT-OF-WAY, CONCRETE COL
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION	NO.	REVISION	DATE	STANDARD DETAIL FOR
			STORM DRAIN	CARSON CITY DRAWING NO. C-4.1.1				MANHOLE
APPRO	VED BY:	7/09	GENERAL NOTES	DATE 7/2009	APPRO\	/ED BY:	7/09	ADJ



	FLOW		SPILLWAY, 1 BAG HIGH	FLOW SANDBAGS, 2 BAGS HIGH
			PICAL PROTECTION FOR INLET ON GRADE TS	
	NOTES:			
1.	INTENDED FO	R TEMP	DRARY SHORT-TERM USE.	
2.	USE TO MAN	AGE CUI	RB WATER FLOW.	
3.	SEDIMENT CA	PTURED	BEHIND SANDBAGS SHALL BE REMOVED WEEKLY DURING CONSTRUCT	TION.
4.	INLET PROTE PERMIT HAVE		UST BE PROPERLY MAINTAINED WHILE IN PLACE AND REMOVED WHE MET.	N REQUIREMENTS OF NDEP
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CITY
			STORM DRAIN INLET	CARSON CITY DRAWING NO.
			PROTECTION	C-4.1.7 DATE
APPROV	ED BY:	7/09	PROTECTION	7/2009
	· 			
		<u> </u>		



INSTALL TEMPORARY COVER WITH CONE INSTALLATION WHEN INSTALLING NEW MANHOLE OR PRIOR TO REMOVING EXISTING FRAME & COVER AND GRADE RINGS TO ADJUST TO FINISH GRADE. INSTALL COVER OVER MANHOLE BASE TO PREVENT DEBRIS FROM ENTERING SEWER SYSTEM. THE MANHOLE BASE COVER SHALL BE IN PLACE PRIOR TO PERFORMING ANY ADJUSTMENTS OR GROUTING AND SHALL REMAIN IN PLACE WHILE ADJUSTMENTS OR GROUTING ARE BEING PERFORMED. REMOVE BASE COVER UPON ADJUSTMENT APPROVAL

CONCRETE SHALL CONFORM TO THE SSPWC SECTION 202.01.12. REBAR SHALL BE USED ONLY WHEN THE MANHOLE IS LOCATED

THE CONCRETE COLLAR SHALL BE LEFT 2 1/2 INCHES TO 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 AC 20 PAVING (CONFORMING TO THE SSPWC SECTION 320). APPLY FOG SEAL (CONFORMING TO 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 LOCATED IN AN UNPAVED AREA, EXTEND CONCRETE TO FINISH GRADE.

INSTALL NEW FRAME & COVER UNLESS OTHERWISE SHOWN ON THE PLANS OR SPECIAL CONDITIONS. FRAME & COVER SHALL BE SET FLUSH WITH FINISH GRADE UNLESS OTHERWISE NOTED.

FOR NEW MANHOLE INSTALLATIONS, DISTANCE FROM COVER TO CONE SHALL BE 12 INCHES MINIMUM AND 15 INCHES MAXIMUM FOR MINOR RESIDENTIAL STREETS AND 15 INCHES MINIMUM AND 18 INCHES MAXIMUM FOR ALL OTHER STREETS. FOR ADJUSTING EXISTING FRAME & COVERS THE DISTANCE FROM COVER TO CONE SHALL NOT EXCEED 18 INCHES.

- SURVEY BOX AND DEEP SEAT CAP

APPROVED EQUAL)

MARKED "SURVEY" (D&L FOUNDRY M-8044-CAP AND M-8056-BOX, OR

ASPHALT CONCRETE EDGE TO BE RECOMPACTED AND LEVELED AFTER

CONCRETE COLLAR.

- CONCRETE COLLAR

- SOLID MASONRY BLOCK (TYP)

- 5/8" x 24" METAL SHAFT

- CONCRETE FILL (SEE NOTE 3.)

(SEE NOTE 2.)

(SEE NOTE 3.)

1 1/2" MIN. NONFERROUS CAP (SEE NOTE 1.)

ASPHALT CONCRETE REMOVAL AND PRIOR TO THE PLACEMENT OF THE

CARSON CITY

7/2009

DRAWING NO.

OR PUBLIC WORKS CONSTRUCTION SECTION CARSON CITY FRAME & COVER DRAWING NO. JUSTMENT

9" MIN.

12" MIN.

5/8 INCH METALLIC SHAFT (SMOOTH SHAFTS TO BE DEFORMED).

PRE-PUNCHED CAPS ARE NOT PERMITTED.

1 1/2 INCH MIN. NONFERROUS CAP WITH PROFESSIONAL LAND SURVEYOR NO. PERMANENTLY ATTACHED PRIOR TO

PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE

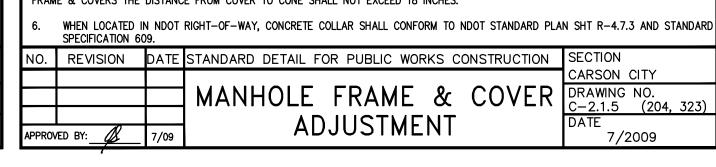
STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45,

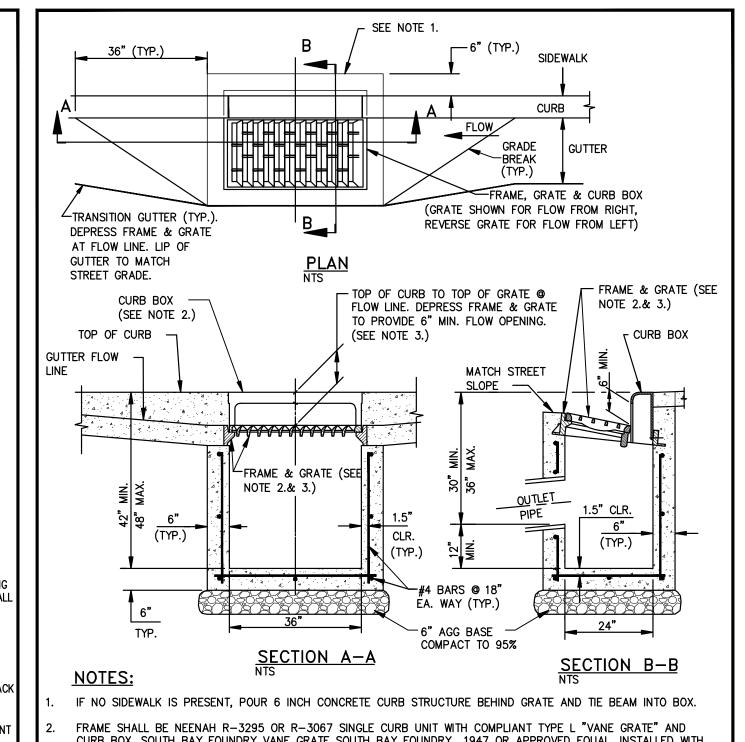
AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202.

CLASS "A"

SURVEY MONUMENT

NO. REVISION DATE STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION SECTION





CURB BOX, SOUTH BAY FOUNDRY VANE GRATE SOUTH BAY FOUNDRY 1947 OR APPROVED EQUAL, INSTALLED WITH

TILT FRAME & GRATE AS REQUIRED TO ATTAIN 6 INCH MIN. FLOW OPENING & INSTALL DURABLE SHIMS BETWEEN THE CURB BOX & FRAME AS REQUIRED TO MATCH CURB BOX TO TOP OF CURB AND FACE OF CURB (SEE SECTION

|--|

	DIRECTOR.			
١٥.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
			CATCH BASIN	DRAWING NO. C-4.1.5
			TYPF 4-R	DATE
PPROV	ED BY:	7/09	 4	7/2009
	1			

DIA (BR/RUN)

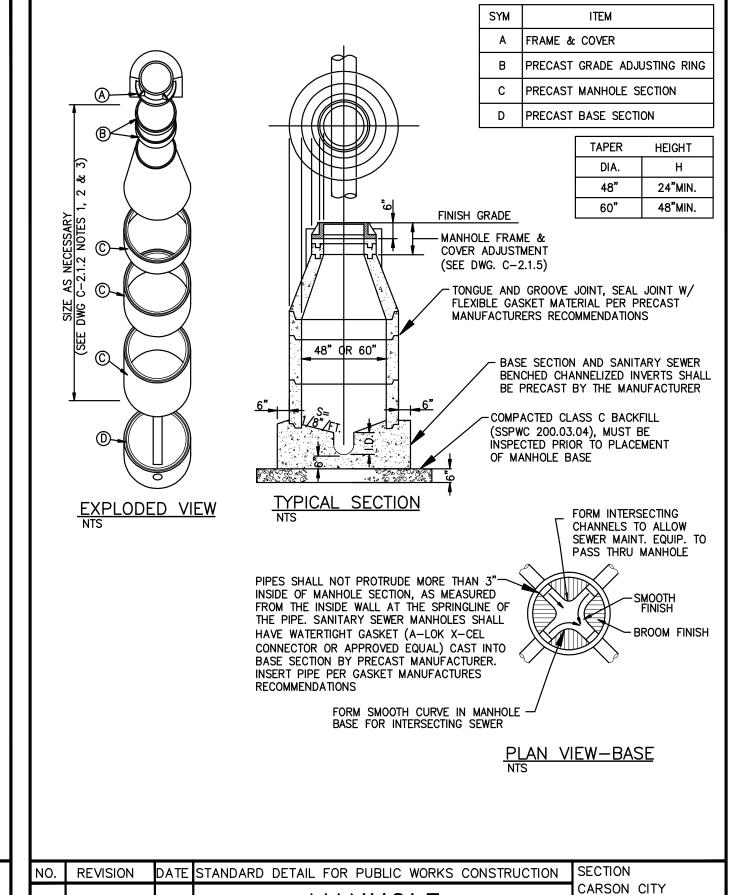
• SOIL COVER = 4'

RUN LENGTH = 20'

• FACTOR OF SAFETY = 1.5 • TRENCH = 90% COMPACTION (#5)

TEST PRESSURE = 150 PSI

1/20

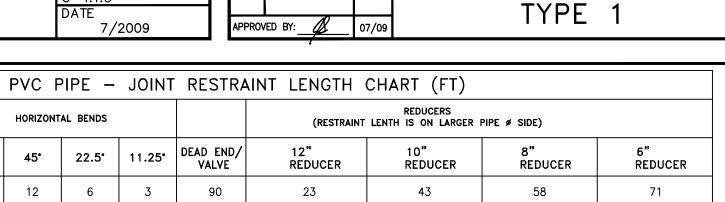


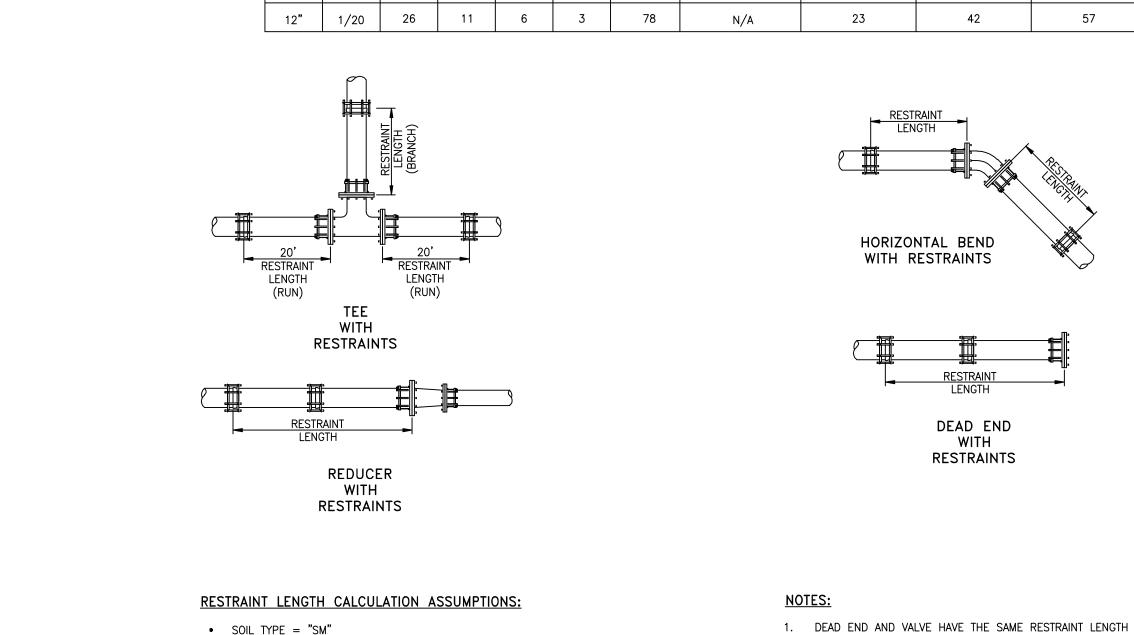
MANHOLE

2. RESTRAINING GLANDS SHALL BE FACTORY COATED DUCTILE IRON (ASTM

A536-80), WITH 304 STAINLESS STEEL BOLTS, NUTS & WASHERS.

3. RESTRAINT LENGTH CORRESPONDS TO LENGTH OF RESTRAINED JOINTS REQUIRED ON EACH SIDE OF BEND, VALVE, OR FITTING.





HORIZONTAL BENDS

12

29

PVC RESTRAINT LENGTH CALCULATION DETAIL

GRANDE 4 O 0

28

GINEER REBECCA C. BERNIER Exp:12/31/14 CIVIL 19279

DRAWING NO.

C-2.1.3 (204, 306)

7/2009

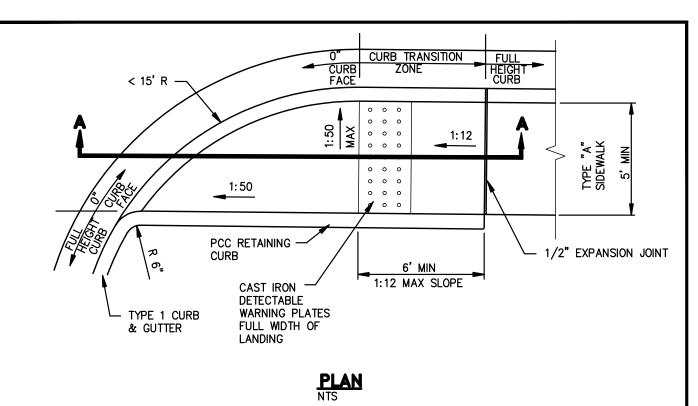
 Δ

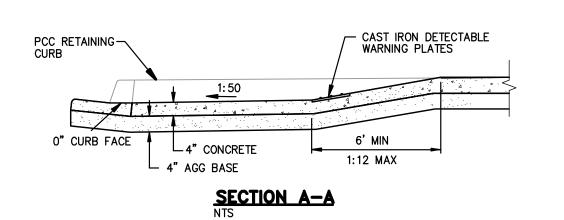
CI

 ∞

 $| \simeq \bigcirc$

Manha

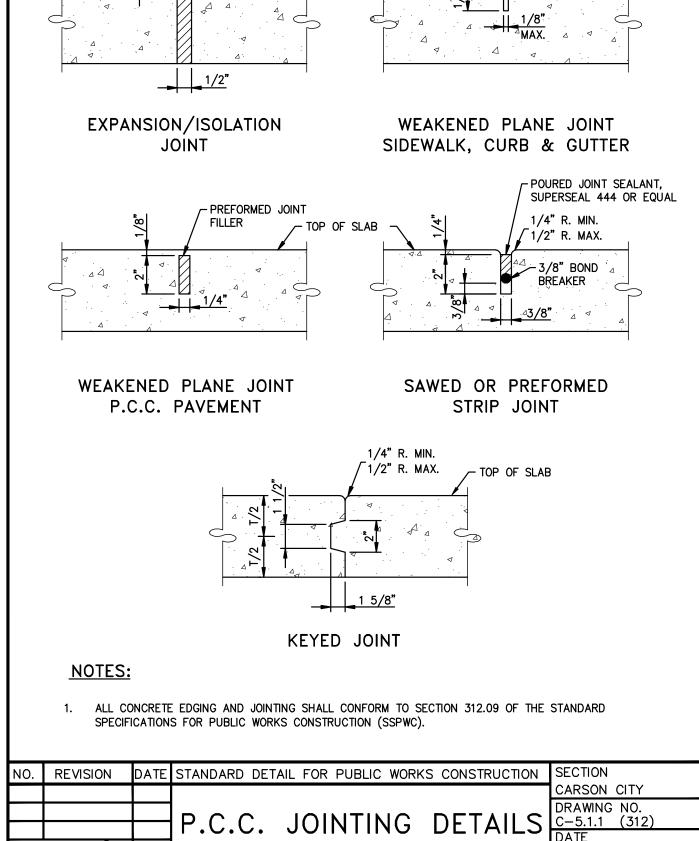




<u>NOTES:</u>

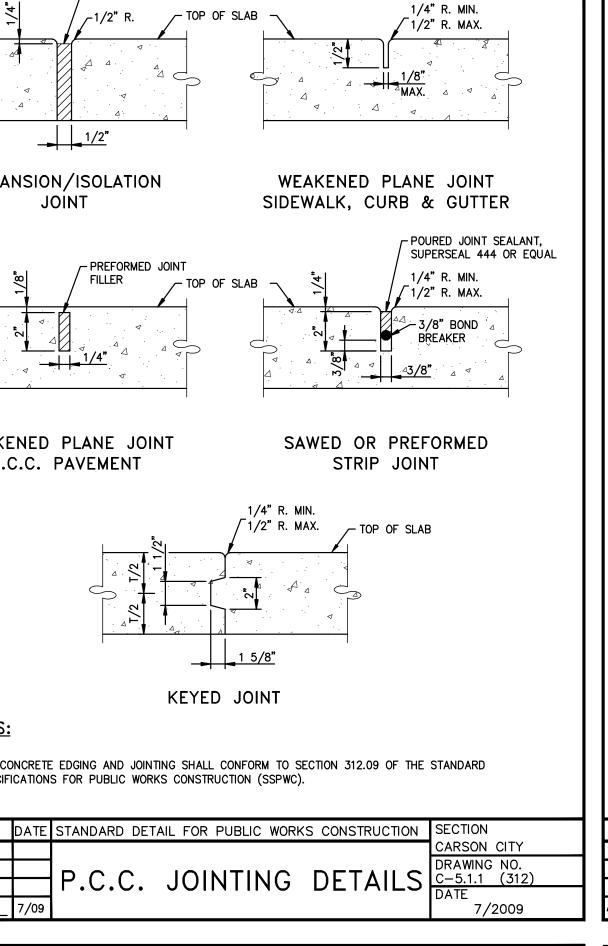
- LINEAR SINGLE TRANSITION CURB RAMP TO BE USED ONLY AT RETURNS HAVING LESS THAN A 15 FOOT RADIUS.
- NOT FOR USE WITH OFFSET SIDEWALKS.
- RETAINING CURBS ARE TO BE USED IN ALL CASES AND EXISTING GRADE AT BACK OF SIDEWALK IS TO BE RAISED TO TOP OF RETAINING CURB ELEVATION.
- SEE "CURB RAMP GENERAL NOTES"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

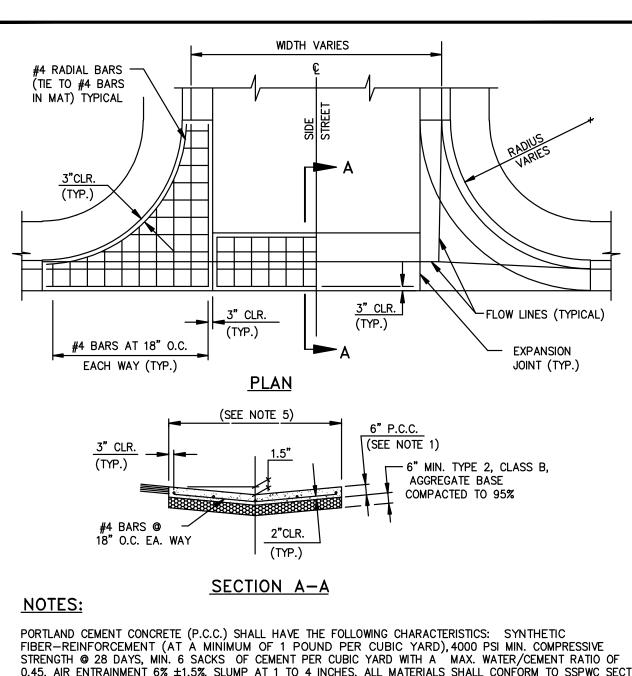
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			LINEAR CURB RAMP	DRAWING NO.
APPRO	VED BY:	7/09	SINGLE ADJACENT	C-5.3.8 DATE 7/2009



-EXPANSION JOINT

FILLER MATERIAL





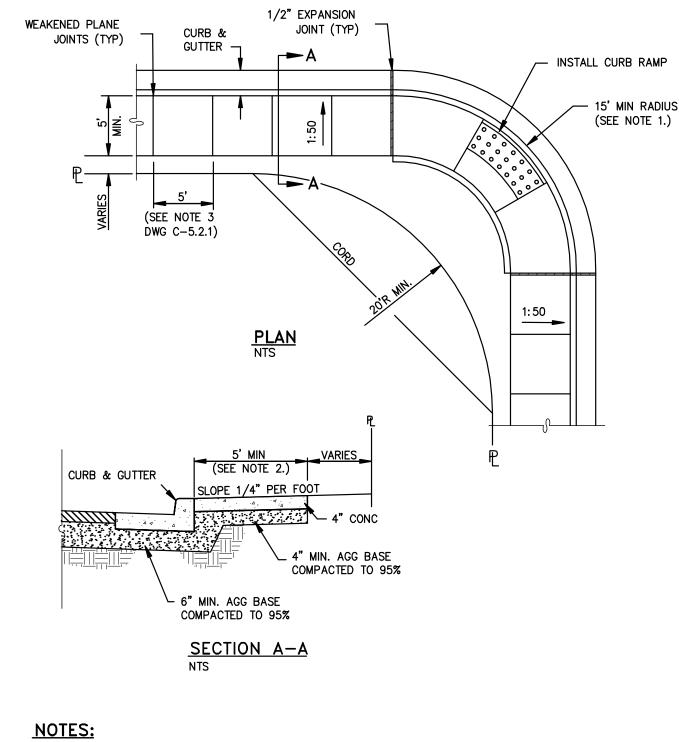
0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202. POLYPROPYLENE FIBERS SHALL BE ADDED TO THE P.C.C. PER THE MANUFACTURER'S RECOMMENDATIONS.

- FOR INDUSTRIAL AREAS, AN ENGINEERED DESIGN IS REQUIRED.
- AGGREGATE BASE SHALL BE ENGINEERED TYPE 2, CLASS B WITH 95% COMPACTION.
- VALLEY GUTTER SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET.
- LOCAL AND COLLECTOR STREETS, WIDTH = 6 FEET. ARTERIAL STREETS (DRIVEWAYS ONLY), WIDTH = 10 FEET.

VALLEY GUTTER SECTIONS (SPANDRELS) ALONG CURB & GUTTER SHALL BE A MONOLITHIC POUR AS SHOWN.

ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL C-5.1.1 AND CONFORM TO SECTION 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

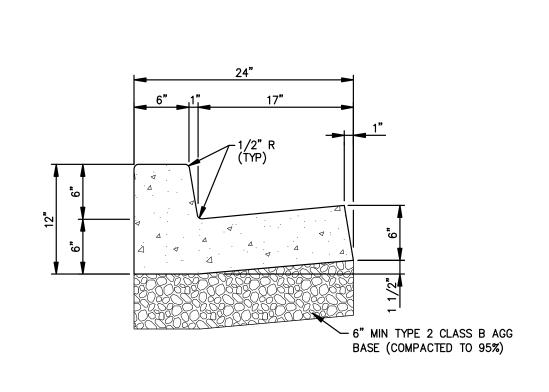
10.	REVISION	DATE	STANDARD DE	ETAIL FOR	PUBLIC V	VORKS	CONSTRUCTION	SECTION	
								CARSON	CITY
				~ \/A		/ ^	LITTED	DRAWING	NO.
			$\mid P.C.C$	۰. ۷۴	ALLE 1		UTTER	C-5.1.2 DATE	
PROV	ED BY: 1	7/09							2009





- MINIMUM CURB RETURN RADIUS SHALL BE 15 FEET UNLESS OTHERWISE APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- 2. SOME STREETS MAY REQUIRE WIDER SIDEWALKS.

NO.	REVISION	DATE	STANDARD DETAIL	L FOR PUE	BLIC WORKS CONSTRUCTI	
						CARSON CITY
			TVDE	" _^ "		DRAWING NO.
			l TYPE	Α	SIDEWALK	C-5.2.2 DATE
APPRO\	/ED BY:	7/09				7/2009



- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), 4000 PSI MIN COMPRESSIVE STRENGTH @ 28 DAYS, MIN 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES ALL MATERIALS SHALL CONFORM TO SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- ALL CONCRETE CURB & GUTTER SHALL HAVE 1/2 INCH EXPANSION JOINTS EVERY 30 FEET (UNLESS APPROVED OTHERWISE BY THE ENGINEER) AND AT ALL CURB RETURNS AND SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET. CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL C-5.1.1 AND CONFORM TO SECTION 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
- ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND CONFORM TO SECTION 200.01. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND SHALL BE MECHANICALLY COMPACTED TO 95% COMPACTION, IN CONFORMANCE WITH SECTION 308.05 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS
- CURBS SHALL BE MARKED WITH A 2 INCH "S" ON THE TOP OF CURB AT SEWER LATERAL LOCATIONS.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			PCC CURB & GUTTER	CARSON CITY
			FCC CORB & GOTTER	DRAWING NO. C-5.1.3
APPROV	/ED BY: A	7/09	TYPE 1	DATE 7/2009

- NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED AND APPROVED BY CARSON CITY PUBLIC WORKS.
- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD). WITH COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67 PER SECTION 200.05.03 OF THE STANDARD SPECIFICATIONS, AND SHALL HAVE A 1 TO 4 INCH SLUMP, AND 4 TO 7 PERCENT ENTRAINED AIR. 4000 PSI MIN COMPRESSIVE STRENGTH @ 28 DAYS, MIN 6 SACKS OF TYPE II CEMENT PER CUBIC YARD WITH A MAX. 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. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS
- . ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DETAIL C-5.1.1 AND CONFORM TO SEC. 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
- 4. IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL BY CARSON CITY PUBLIC WORKS. A MINIMUM SURFACE OF 5 FEET X 5 FEET CLEAR IS REQUIRED WHEN DIRECTION OF TRAVEL MAY CHANGE AND A MINIMUM SURFACE OF 4 FEET CLEAR IS REQUIRED WHERE DIRECTION OF TRAVEL IS NOT EXPECTED TO CHANGE, UNLESS OTHERWISE APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.

DATE STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION SECTION

SIDEWALK AND DRIVEWAY

GENERAL NOTES

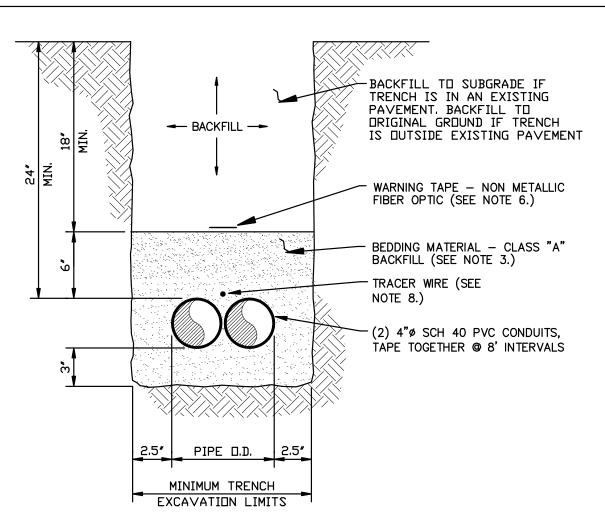
- 5. EXISTING CONCRETE SHALL BE REMOVED TO A NEAT SAWCUT LINE OR NEAREST EXPANSION JOINT.
- 6. ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND SHALL CONFORM TO SEC.200.01. OF THE
- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).

APPROVED BY: 🛭

NO. REVISION

APPROVED BY:

7. NEW CONCRETE SHALL HAVE A HEAVY BROOM FINISH PERPENDICULAR TO SIDEWALK.



FIBER OPTIC TRENCH SECTION

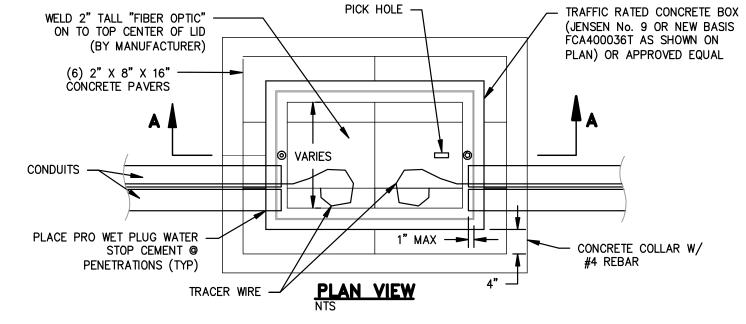
CARSON CITY

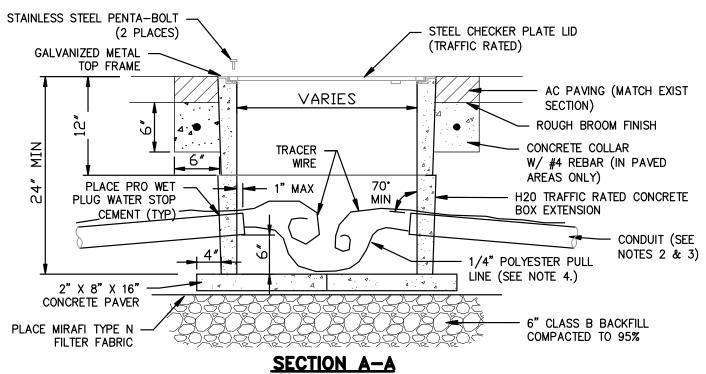
7/2009

DRAWING NO.

NTS

- 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 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
- 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 D.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 HDPE, PLANS SHALL SPECIFY WIRE STRENGTH 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 ELECTRICAL/FIBER OPTIC.





FIBER OPTIC PULL BOX & LID

- 1. FIBER OPTIC PULL BOXES AND COVERS SHALL BE H-20 TRAFFIC RATED, WITH BOLT DOWN STEEL COVER LID MARKED "FIBER OPTIC".
- 2. CONDUIT SHALL BE SCHEDULE 40 PVC ELECTRICAL CONDUIT. ALL CONDUITS ENTERING A PULLBOX SHALL BE CAPPED WITH AN END BELL.
- 3. 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
- 4. CONUITS 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

RANDE 1000 G 4 O \propto 0 ઝ N N \simeq

RLIN

Д

REBECCA C.

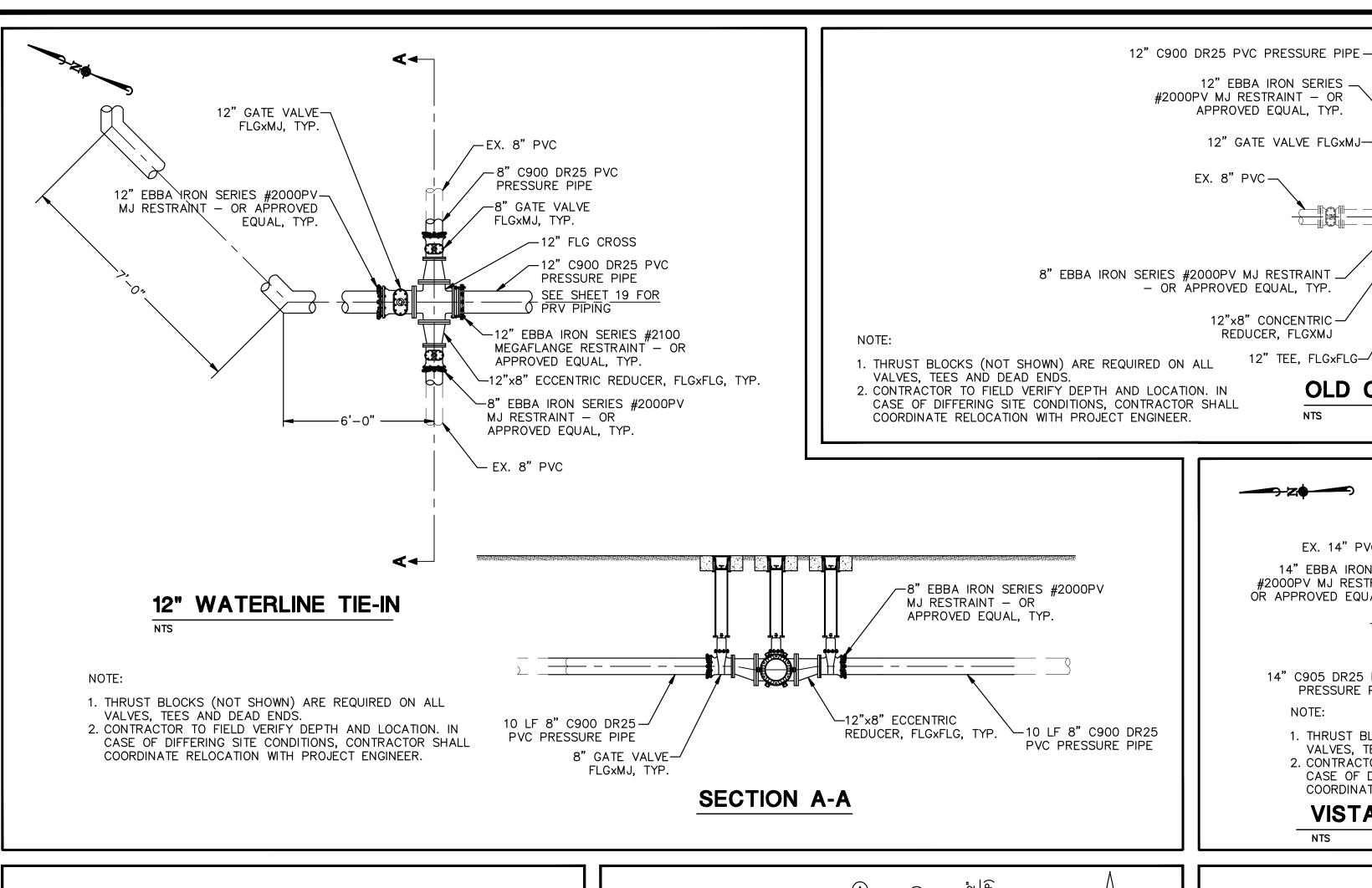
BERNIER

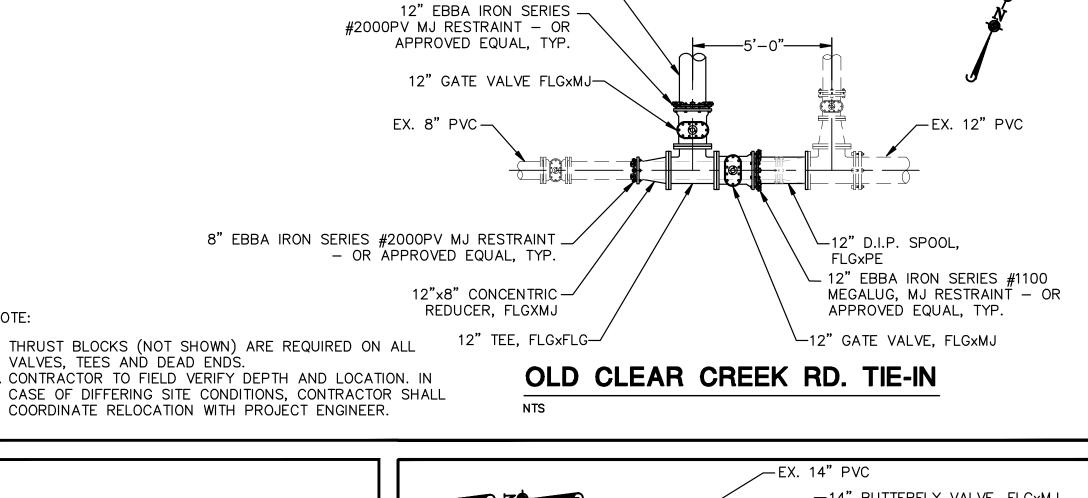
Exp:12/31/14

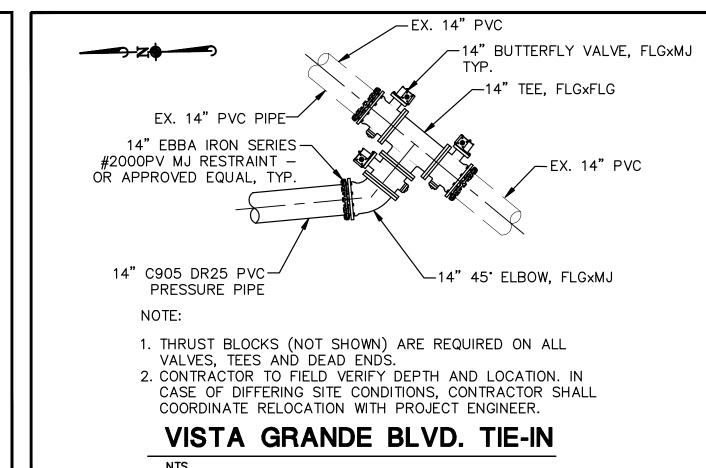
19279

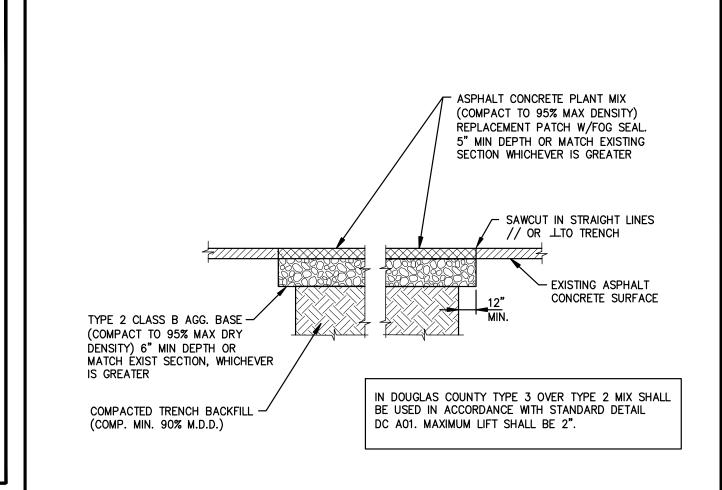
CIVIL

— OF-28



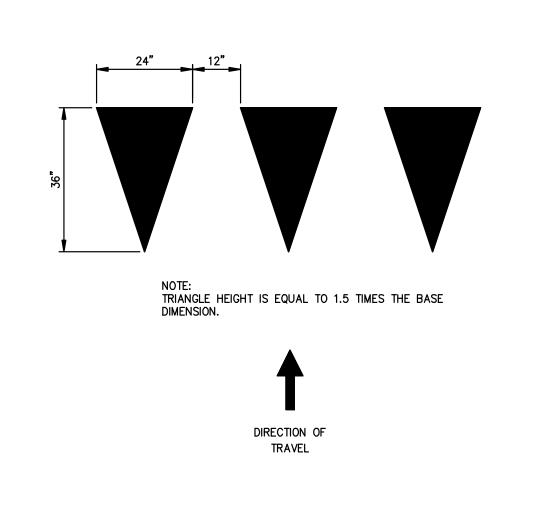






- IF SAWCUT IS WITHIN 24 INCHES OF EDGE OF A.C. PAVEMENT REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
- BITUMINOUS MATERIAL SHALL MEET THE REQUIREMENTS OF SECTIONS 201 AND 320 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- MIXING, SPREADING, AND COMPACTING OF BITUMINOUS 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 <u>ABOVE</u> EXISTING SURFACE. ALL HUMPS EXCEEDING THIS TOLERANCE SHALL BE CORRECTED BY REMOVAL OF MATERIAL AND REPLACING IT WITH NEW MATERIAL. <u>FINISHED</u> <u>SURFACE OF PATCH SHALL NOT BE BELOW EXISTING ADJACENT SURFACE.</u>
- 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 BITMUMINOUS 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.

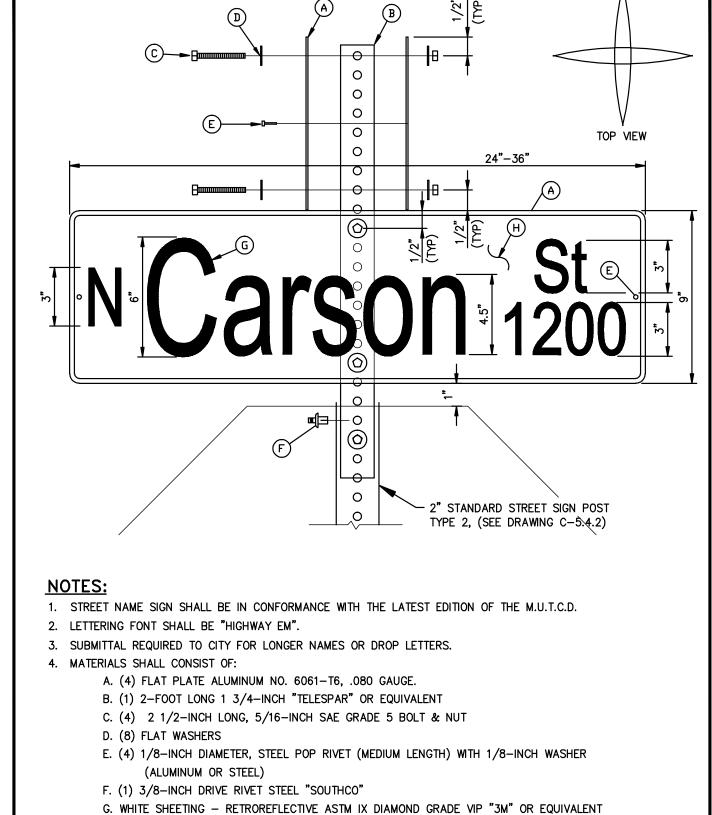
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			PAVEMENT PATCH	CARSON CITY DRAWING NO. C-5.1.6
APPRO	VED BY:	7/09	TAVEMENT TATON	DATE 7/2009



NOTES:

- ALL STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, CURRENT EDITION.
- ALL PAINTED STRIPING AND PAVEMENT LEGENDS SHALL CONFORM TO CARSON CITY PUBLIC WORKS
- ALL INLAY TAPE STRIPING AND/OR PAVEMENT LEGENDS SHALL BE INSTALLED PER MANUFACTURERS
- YIELD LINE TO BE INSTALLED FROM EDGE OF LANE TO EDGE OF PAVEMENT OR LIP OF CURB.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
			YIFLD LINE LAYOUT	DRAWING NO. C-5.4.4
			I TIELD LINE LATOUT	DATE
APPROV	ED BY:	7/09		7/2009



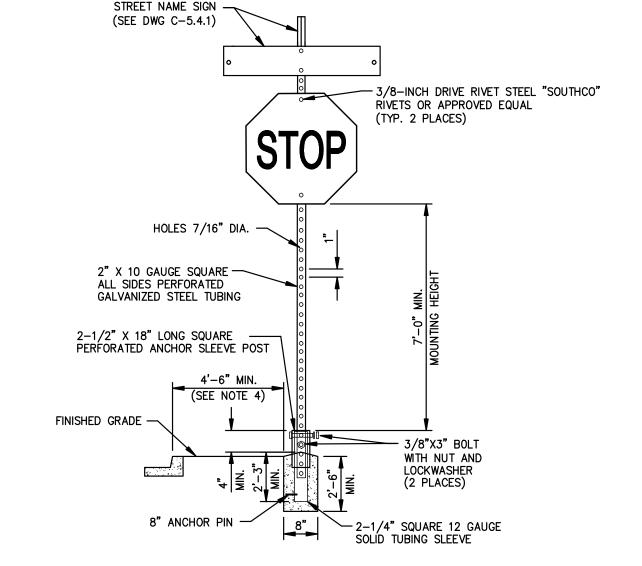
H. GREEN SHEETING - TRANSPARENCY ELETRO CUT FILM 1177C "3M" OR EQUILVALENT

STREET NAME SIGN

AND MOUNTING

NO. | REVISION | DATE | STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION | SECTION

APPROVED BY:



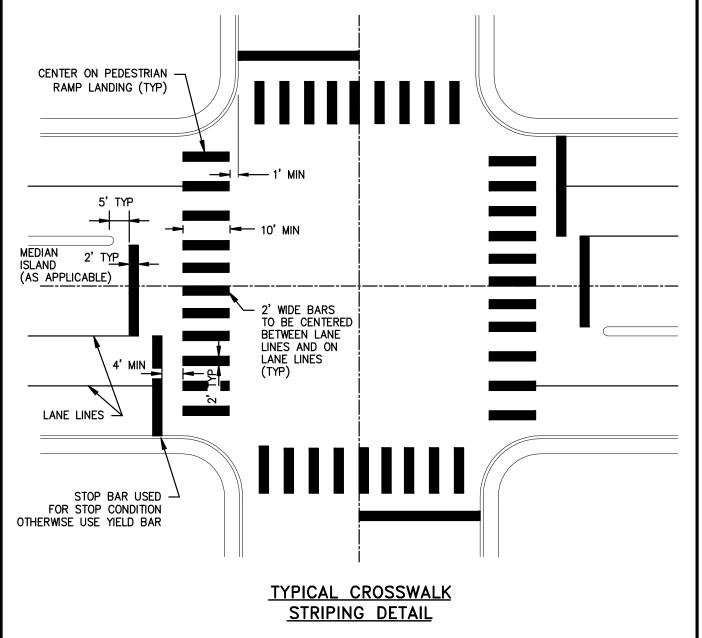
CARSON CITY

7/2009

DRAWING NO. C-5.4.1

- SIGN MATERIALS, CONSTRUCTION AND PLACEMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 2. STREET NAME SIGN SHALL BE AS SPECIFIED IN STANDARD DETAIL DRAWING NO. C-5.4.1
- 3. ON STREETS WHERE CURBING DOES NOT EXIST, SET SIGN 6 FEET MINIMUM FROM PAVEMENT EDGE.
- CONCRETE BASE SHALL BE LOCATED AT BACK OF SIDEWALK, UNLESS OTHERWISE DIRECTED BY THE
- 5. ALL REGULATORY SIGNS SHALL USE ASTM TYPE 3 OR 4 INTENSITY SHEETING.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			TRAFFIC SIGN	CARSON CITY DRAWING NO.
APPROVI	ED BY: 🛭	7/09	INSTALLATION	C-5.4.2 DATE 7/2009



NOTES:

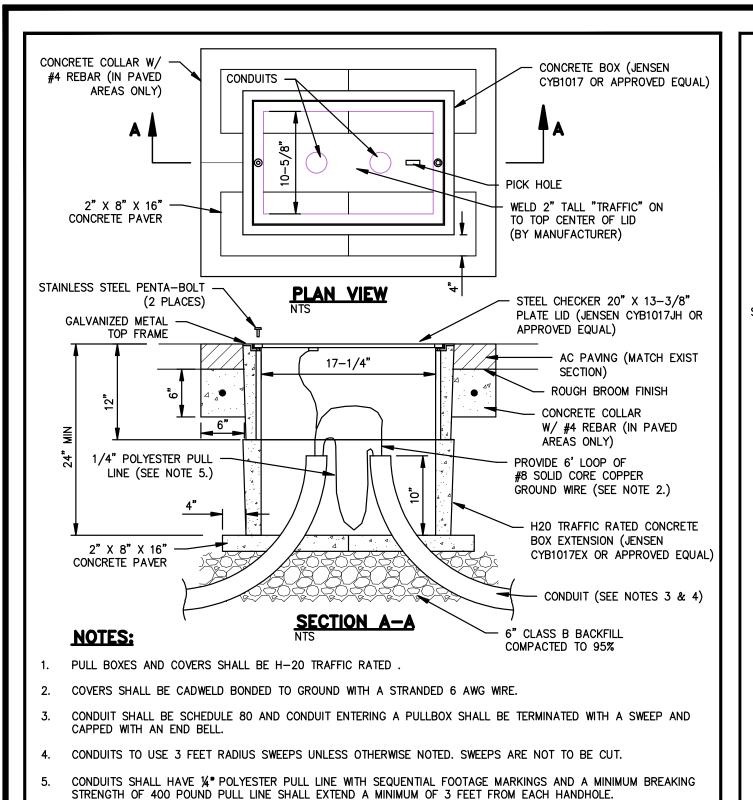
- ALL STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, CURRENT EDITION.
- INLAY TAPE STRIPING AND/OR PAVEMENT LEGENDS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
- CROSSWALK MARKINGS SHALL BE INSTALLED AT ALL TRAFFIC SIGNAL LOCATIONS AND AT OTHER LOCATIONS AS DIRECTED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.

	NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
╛					CARSON CITY
				000000000000000000000000000000000000000	DRAWING NO.
1				CROSSWALK LEGEND	C-5.4.3 DATE
	APPR	OVED BY:	7/09		7/2009

Manhar GINEER REBECCA C. BERNIER Exp:12/31/14 CIVIL No. 19279

44444

GRANDE ..1000 **⋖** 0 □ 0 \propto



NO. 5 PULL BOXES SHALL BE USED WHERE CONDUIT RUNS CONTAIN TRAFFIC SIGNAL UNLESS OTHERWISE APPROVED

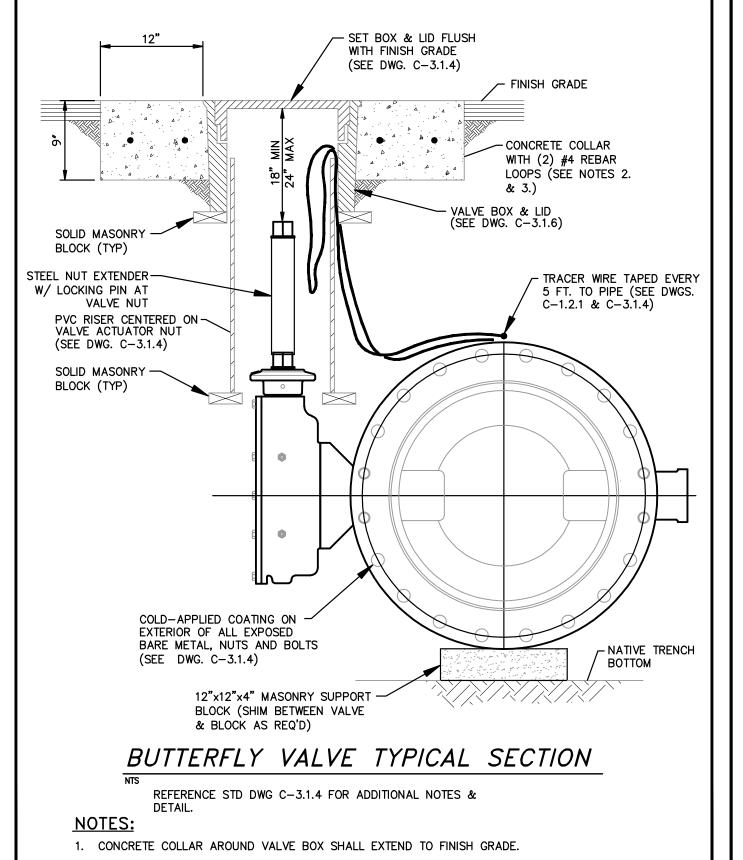
BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR. CABLE. NO. 3-1/2 PULL BOXES MAY BE USED AT

A 6 INCH CLEARANCE SHALL BE MAINTAINED FROM THE PULLBOX LIDS AND THE CONDUCTORS COILED IN THE

TRAFFIC SIGNAL

D. REVISION DATE STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION SECTION

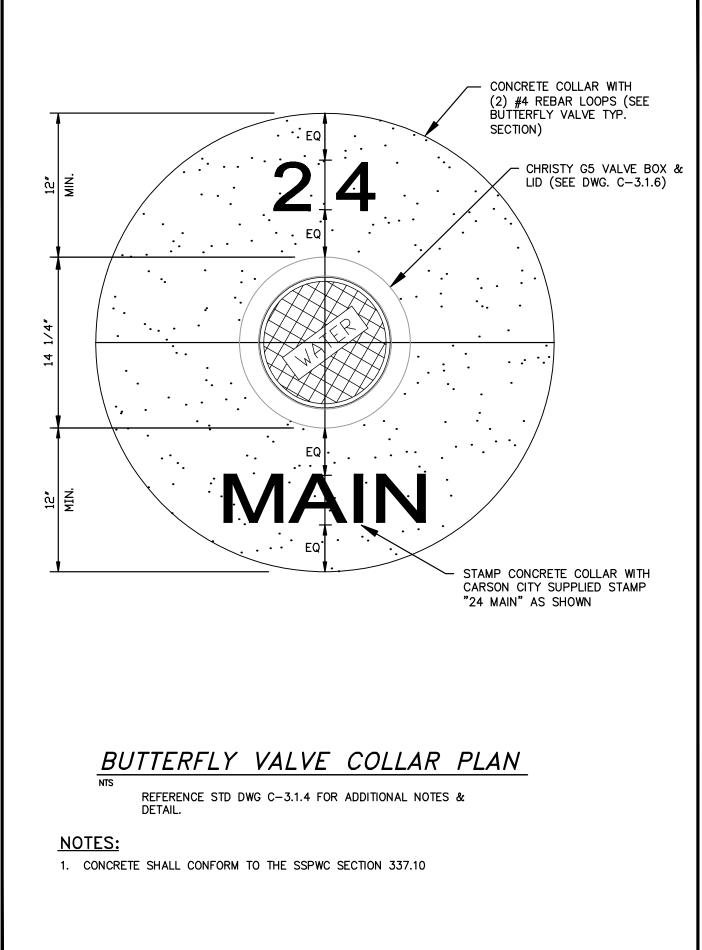
ALL OTHER LOCATIONS.

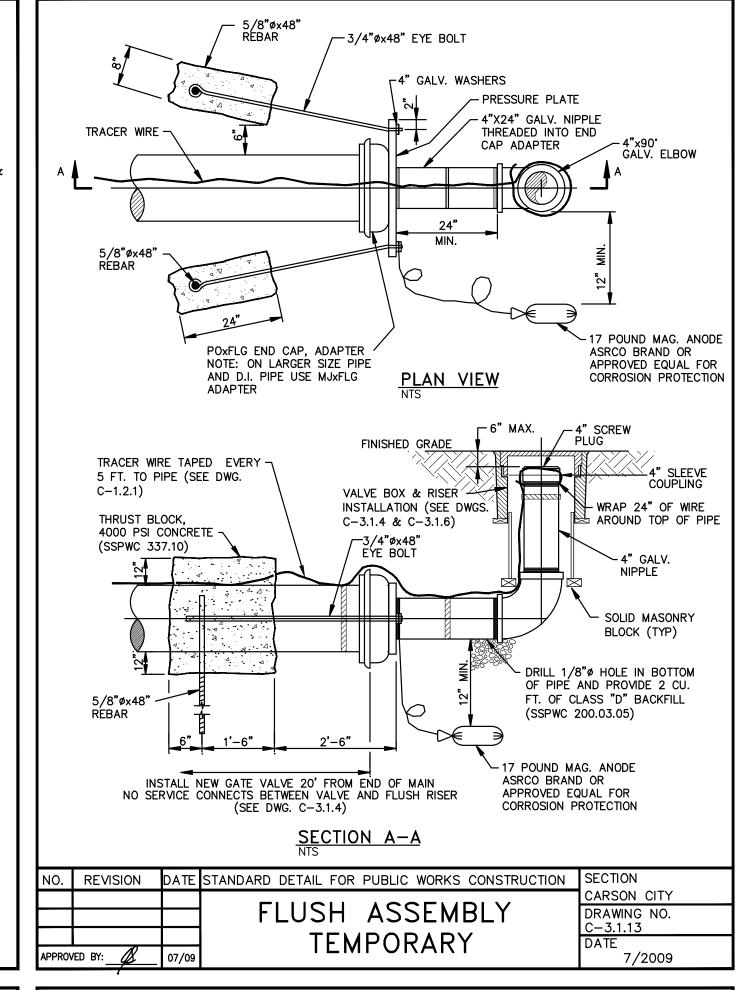


2. STAMP CONCRETE COLLAR WITH CARSON CITY SUPPLIED STAMP " 24" MAIN " AS SHOWN ON

VALVE BOX COLLAR PLAN.

3. CONCRETE SHALL CONFORM TO THE SSPWC SECTION 337.10





CIT DEP,

 $\mathbf{\omega}$

<u>Д</u>

NEGA

REBECCA C.

BERNIER

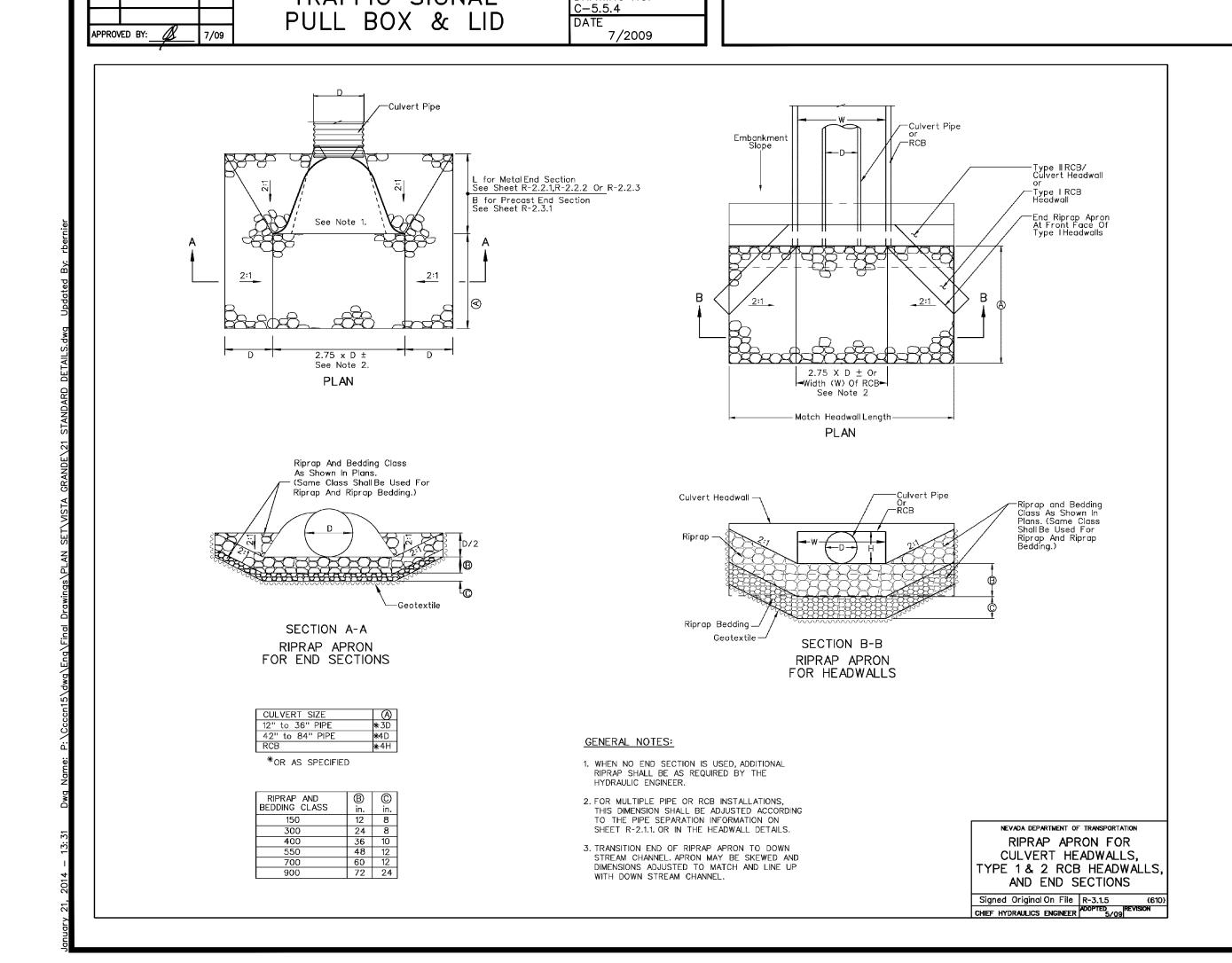
Exp:12/31/14

CIVIL

No. 19279

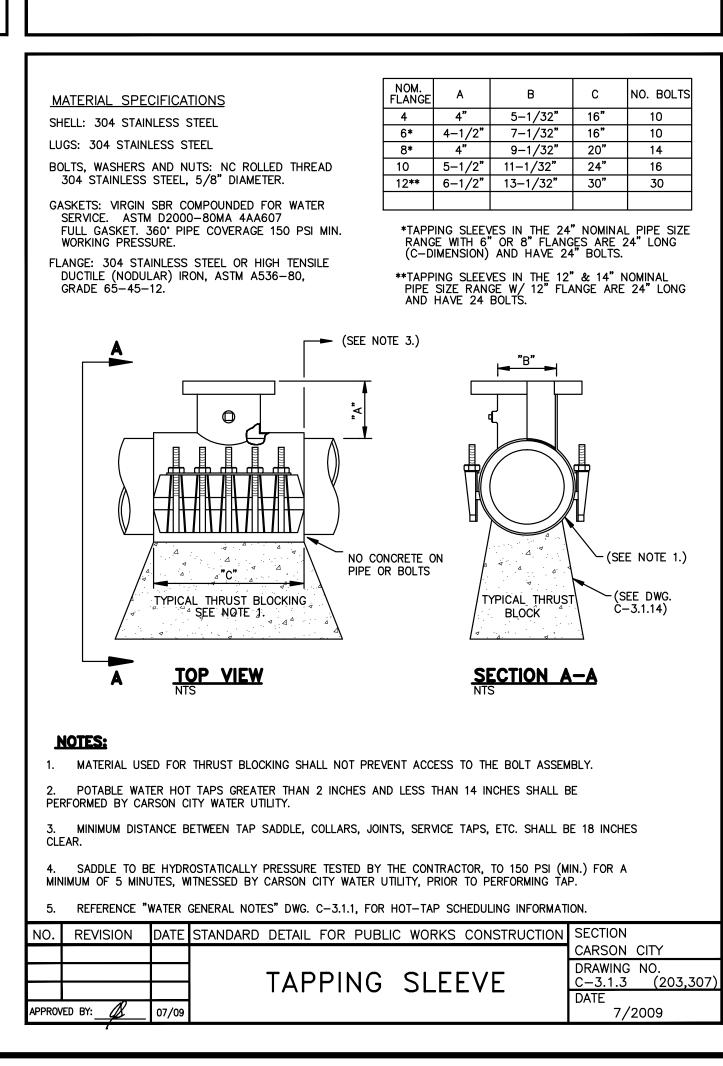
0

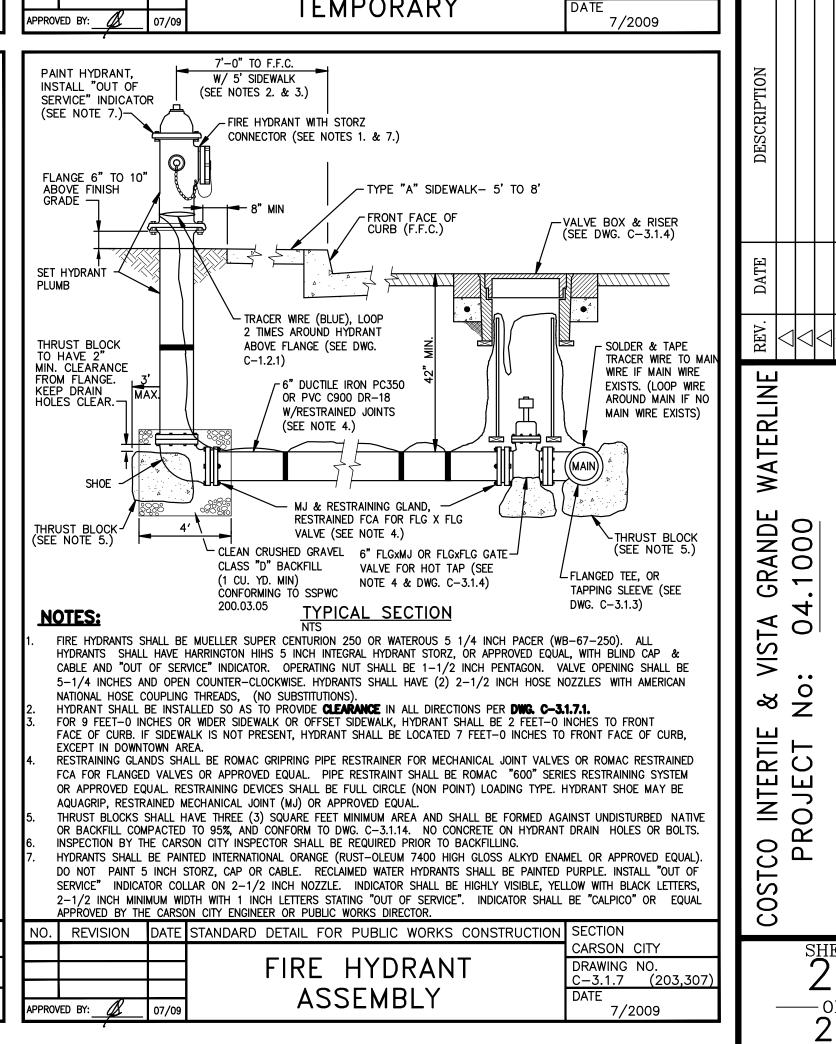
28



CARSON CITY

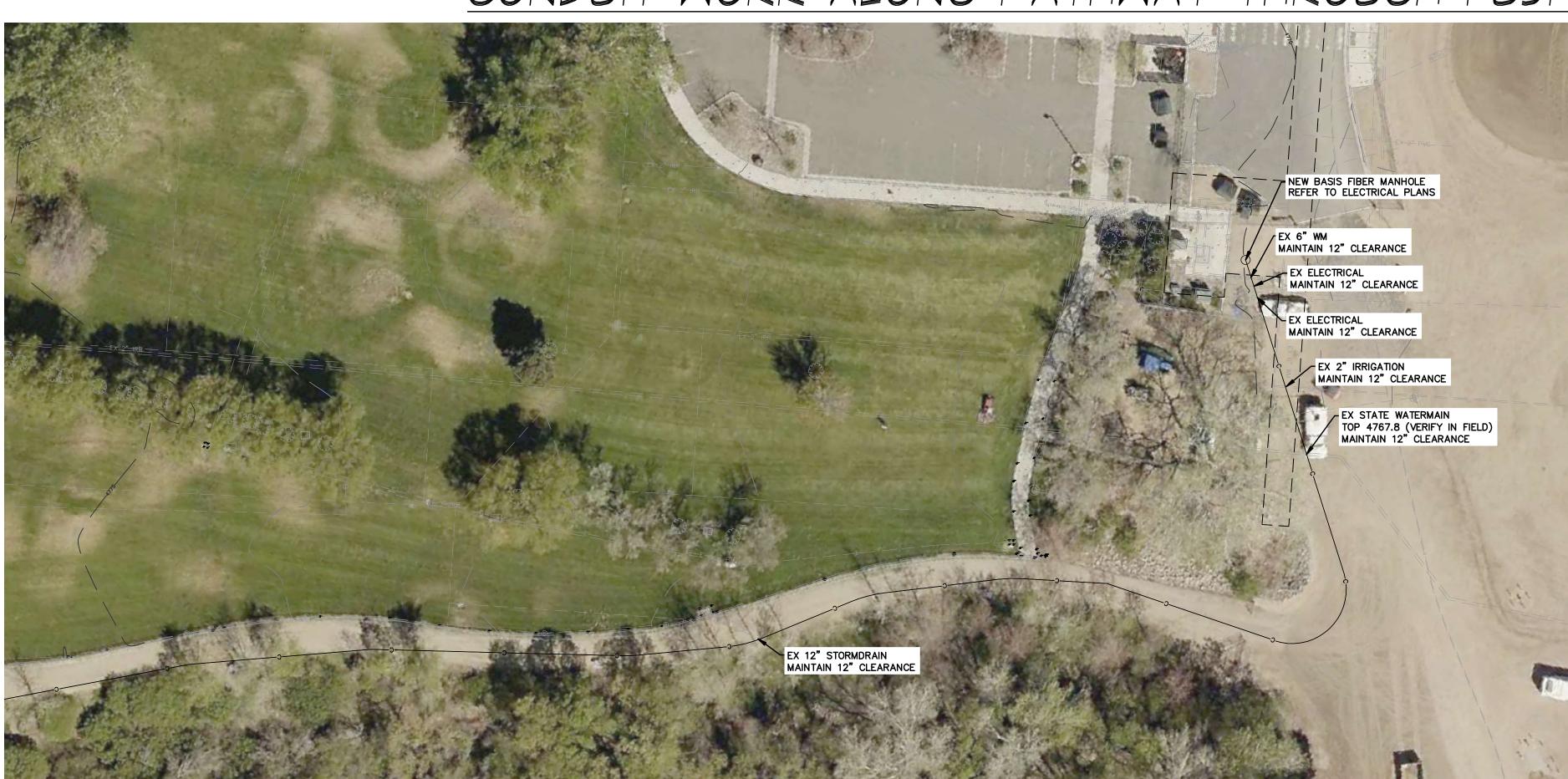
DRAWING NO.

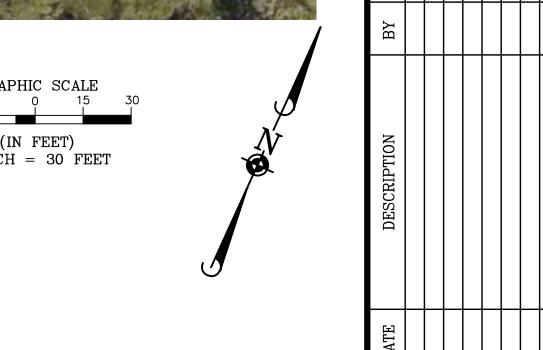






CONDUIT WORK ALONG PATHWAY THROUGH FUJI PARK





WATERLINE PARK VISTA GRANDE

1: 04.1000

ROUGH FUJI