RTD BUS INFRASTRUCTURE STANDARD DRAWINGS Published 2016















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> BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

> > GENERAL TABLE OF CONTENTS

SHEET REFERENCE NUMBER: SD-G101

The content of this document reflects the current practices for building bus facilities used by the Regional Transportation District. This document was developed and assembled by the Engineering Division of the Capital Programs Department for the purpose of providing typical standard drawings for designing and constructing RTD bus facilities. This document shall be used in conjunction with the RTD Bus Infrastructure Design Guidelines and Criteria.

These typical drawings shall be used in the development of design, which shall comply with applicable law, RTD and Local Agency requirements and standards, and good industry practices. These standard drawings are typical scenarios applicable to normal designs of RTD bus facilities and are available on an "as is" basis. The standards drawings shall be adjusted for site specific requirements. All warranties and representations of any kind with regard to said documents are disclaimed, including the implied warranties of merchantability and fitness for a particular use. Under no circumstance will RTD, or its officers or employees be liable for any consequential, incidental, special or exemplary damages even if apprised of the likelihood of such damages occurring. The RTD does not warrant the documents against deficiencies of any kind.

The use of any of these documents for work which is under contract with RTD, does not relieve the designer or contractor from any obligations assumed by the contract with RTD, or from complete and proper fulfillment of the terms of the contract, nor does it entitle the designer or contractor to compensation for damages or loss which could be attributed to such use. The project designers shall seal and sign drawings according to applicable State Law.

Engineering Division.

Approved: Jyotsna Vishwakarma, P.E.

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NO.	REVISIONS	BY	DATE							(303) 628-9000	

Proprietary items or products referred to in these standards are items or products currently used by RTD. The use of equivalent items or products with similar desired characteristics can be proposed, and will be subject to the review and approval of the

These standard drawings contained within this document can only be changed by the process initiated by the Senior Manager/Chief Engineer of the Engineering Division.

Holme Vishmalame 06/13/2016

Senior Manager/Acting Chief Engineer

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

> GENERAL HOW TO USE THESE DRAWINGS

REFERENCE NUMBER: SD-G103 02 OF 68

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1	GN	101	PROJECT COVER SHEET				53	U	101	OVERALL UTILITY PLANS			
2	GN	102	SHEET INDEX, LEGEND AND ABBREVIATIONS				54	U		METERING AND EMERGENCY S			
3	GN	103	GENERAL DRAWING LIST (CDOT OR OTHER				55	U	103 104	SANITARY SEWER WATER			
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5	GN		PROJECT NOTES PROJECT SCOPE / EXTENT				57	A	101	SHELTERS			
6	GN	106	EFFECT ON OPERATIONS & DESIRED				58	А		CANOPIES			
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8	GN	108	ALTERNATES				61	S	105	STRUCTURAL			
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12	V	103	EXISTING CONDITIONS				65	E		ELECTRIC SITE PLAN			
		101					66	E	105	TRANSFORMER LOCATIONS			
13	CR	101	OFF-SITE ROADWAY IMPROVEMENTS				67	E	106	ONE-LINE DIAGRAM			
14	CR	102	TRAFFIC SIGNAL PLAN				68	Е	107	DIVISION OF RESPONSIBILITY			
15	CR	103	FOUNDATION/STRUCTURAL							UTILITY/CONTRACTOR/RTD			
16	CR	104	TRAFFIC SIGNAL CONTROLS				69	J	101	SECURITY AND COMMUNICATION			
17	CR	105	DETAILS				70	J		CAMERA LOCATIONS AND CON			
							71	J	103	CONTROL SYSTEMS			
18	CK	101	DEMOLITION PLAN				71			TOTAL NUMBER OF SH			
19	СК	201	OVERALL SITE PLAN				-						
20	CK		PLAZAS, AND ACCESSIBLE AREAS				-						
23	CK		HORIZONTAL LAYOUT				-						
22	CK		PAVEMENT MARKINGS				-						
23	СК	205	SIGNAGE PLAN				1						
24	СК	206	SIGN MONUMENT										
25	СК	207	PAVING PLANS WITH CONDUITS										
26	СК	208	EXISTING DRAINAGE PLAN										
27	СК	209	PROPOSED DRAINAGE PLAN				_						
28	CK	210	OVERALLGRADIN PLANS				_						
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31	CK	212	PLAN & PROFILES				-						
32	CK	214	DETAILS				-						
33	СК		WATER QUALITY & DETENTION POND				1						
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35	СК	217	CALCULATIONS										
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SHEET NUMBER	SHE		DRAWING TITLE	REVISION NO.	SHEETS ADDED OR DELETED	AUTHORIZING DOCUMENT
53	U	101	OVERALL UTILITY PLANS			
54	U	102	METERING AND EMERGENCY SHUT-OFFS			
55	U	103	SANITARY SEWER			
56	U	104	WATER			
57	A	101	SHELTERS			
58	A	102	CANOPIES			
59	Α	103	DRIVER RELIEF STATION			
60	MEP	104	MECHANICAL, ELECTRIC, PLUMBING			
61	S	105	STRUCTURAL			
62	E	101	LEGEND & SCHEDULES			
63	E	102	PHOTOMETRIC PLANS			
64	E	103	DETAILS			
65	E	104	ELECTRIC SITE PLAN			
66	E	105	TRANSFORMER LOCATIONS			
67	E	106	ONE-LINE DIAGRAM			
68	E	107	DIVISION OF RESPONSIBILITY BETWEEN UTILITY/CONTRACTOR/RTD			
69	J	101	SECURITY AND COMMUNICATION SYSTEMS			
70	J	101	CAMERA LOCATIONS AND CONDUITS			
70	J	102	CONTROL SYSTEMS			
71		1.03	TOTAL NUMBER OF SHEETS		71 ±	

REGIONAL TRANSPORTATION DISTRICT

1600 BLAKE STREET DENVER, COLORADO 80202

(303) 628-9000

A SET OF PROJECT DRAWINGS WILL TYPICALLY CONTAIN THE ELEMENTS LISTED BELOW. DEPENDING UPON THE SCOPE OF THE PROJECT, SOME OF THESE ELEMENTS MAY BE ELIMINATED. SMALLER PROJECTS MAY NOT NEED ALL THESE ELEMENTS, OR THE ELEMENTS CAN BE DEPICTED ON FEWER SHEETS. CONVERSELY, LARGE OR COMPLEX PROJECTS MAY REQUIRE SEVERAL SHEETS PER ELEMENT.

DESIGN PHASE

- 1. COVER SHEET SHALL INCLUDE THE SIGNATURES OF APPROPRIATE STAFF AND RTD MANAGEMENT, AS DEFINED IN CAPITAL PROGRAM'S OFFICIAL DRAWING CONFIGURATION MANAGEMENT AND CONTROL PROCEDURES.
- 2. AN ORIGINAL SET OF DRAWINGS SHALL BE SIGNED AND SEALED BY THE LICENSED/REGISTERED DESIGNER AS SET FORTH BY STATE LAW.
- 3. THE PROJECT MAY INVOLVE GETTING STAMPS OR SIGNATURES FROM A LOCAL JURISDICTION TO INDICATE ACCEPTANCE FROM BUILDING DEPARTMENT, PUBLIC WORKS, ENGINEERING, ETC.

CONSTRUCTION PHASE

- 1. THE OVERALL DRAWING SHEET INDEX SHALL BE REVISED EACH TIME THE DRAWINGS ARE REVISED DURING CONSTRUCTION, AND ISSUED WITH THE REVISION.
- 2. DOCUMENTATION SHALL BE MAINTAINED SHOWING APPROVAL BY THE DESIGN PROJECT MANAGER AND CONSTRUCTION PROJECT MANAGER TO EACH CHANGE TO THE ORIGINALLY ISSUED DRAWINGS.
- 3. ANY SHEETS THAT WERE MODIFIED OR ADDED SHALL BE INSERTED INTO THE PLAN SET WITH THE ORIGINAL SHEETS REMOVED AND REPLACED OR SUPERCEDED.
- 4. IF A SHEET HAS BEEN ELIMINATED FROM THE PLAN SET, THE NAME OF THE PLAN SHEET SHALL BE STRICKEN THROUGH IN THE SHEET INDEX AND THE PHRASE INTENTIONALLY OMITTED ADDED IN A BOLD FONT AND THE SHEET REMOVED WITHOUT RENUMBERING THE SUBSEQUENT SHEETS IN THE SET.
- 5. REVISIONS SHALL BE NOTED AND DATED CONSECUTIVELY IN THE REVISIONS BLOCK.
- 6. SHEET ADDITIONS SHALL HAVE A SUBSCRIPT ATTACHED TO THE SHEET NUMBER (IE. 5A) AND SHALL BE NOTED AND DATED IN THE REVISION BLOCK.

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

SHEET REFERENCE NUMBER: SD-G104

GENERAL SAMPLE OVERALL SHEET INDEX

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	2.	LIST OF LOCAL AUTHORITIES AND T	HEIR CO	ONTACT INFORM	ATION.		9.	DESIGN VARIANCES				
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	3.	ZONING REQUIREMENTS ANALYSIS:							TAINED INOT NEEDED			F. APPR
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		C. MAXIMUM HEIGHT OF STRUCTU	JRES					RECORD CAD FILE				
		D. SPECIAL REQUIREMENTS							S-BUILT SURVEY			
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	5.	SITE STATISTICS					0				10.	
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		B. SITE AREA PAVED						COMMUTER RAIL LIGHT RAIL			16.	MAINTENA
	0							LIGHT RAIL BUS SERVICE				□ RTD
	6.	LIST TECHNICAL REPORTS & STUDIE	25 FUR	PROJECT								
		A. PLANNING STUDIES						□ NONE				
		B. PREVIOUS COMMITMENTS			D							
		C. ENVIRONMENTAL STUDIES AND		ATIONS REQUIRE	D		10.	ALTERNATE SERVICE P	PLAN COORDINATED			
		i. TRAFFIC IMPACT STUDIES						□ YES				
		ii. HISTORIC INVESTIGATION						□ TO BE DONE				
		iii. AIR QUALITY					11.	PROPERTY IMPACT:				
		iv. NOISE						□ NO ROW OR EASE	MENT REQUIRED			
		v. VIBRATION						□ ROW OR EASEMEN	NT REQUIRED			
		vi. HAZARDOUS MATERIALS							STRUCTION EASEMENT REQUIRED			
		vii. TREE SURVEYS										
		viii. WETLANDS					12.	PROJECT DURATION IS	EXPECTED TO BE:			
		ix. MIGRATORY BIRDS										
		x. ENDANGERED SPECIES					13.	WINDOWS FOR CONSTR	RUCTION ARE:			
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US INFRASTRUCTURE STANDARD DRAWINGS **REGIONAL TRANSPORTATION DISTRICT**

SHEET REFERENCE NUMBER: SD-G105

GENERAL PROJECT INFORMATION

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DESCRIBED IN THESE DRAWINGS. A. CONSTRUCTION IMPACTING RTD RAIL AND/OR WITHIN 25 FEET OF RTD TRACKS: 2. FOR PROJECTS LOCATED WITHIN PUBLIC RIGHT-OF-WAY, ALL CIVIL WORK NOT COVERED BY LOCAL AGENCY REQUIREMENTS AND SPECIFICATIONS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE CDOT "STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION", "M & S STANDARDS". a. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MAINTENANCE OF WAY (MOW) LIGHT RAIL RIGHT OF WAY ACCESS PERMIT TO PERFORM WORK. THE RTD LIGHT RAIL RIGHT OF WAY ACCESS REQUEST PERMIT CAN BE FOUND AT: www.rtd-denver.com/Documents/RailOperationsAccessPermit.doc 3. BUILDING DESIGNS SHALL COMPLY WITH LATEST VERSION OF THE INTERNATIONAL BUILDING CODE. b. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING A WRITTEN SAFETY PROGRAM CONFORMING TO THE REQUIREMENTS OF THE RTD		THE AMERICANS WITH DISABILITIES ACT.				FOR ALL COMMU ⁻	PERSONNEL PE	ERFORMING WORK IN TH REIGHT RAIL SYSTEMS.	E VICINITY OF L	IGHT RAIL,
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1. THE OBJECTIVE OF THIS PROJECT IS TO AS SHOWN OR 22. RTD CONSTRUCTION PERMITS REQUIRED:	1.		VN OR	22					HIN 25 FEET OF	RTD TRACKS:

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8. UNLESS SPECIFICALLY NOTED ON THE PLANS, THE CONTRACTOR WILL NOT BE COMPENSATED FOR WORK OUTSIDE THE LIMITS OF CONSTRUCTION

WHERE TREES ARE REMOVED, ASSOCIATED IRRIGATION LINES SHALL BE CAPPED ONLY FOR THE REMOVED TREES. IRRIGATION LINES SHALL BE MODIFIED AS NECESSARY TO MAINTAIN FUNCTIONALITY TO ADJACENT TREE.

10. STRUCTURAL EXCAVATION, INCLUDING DISPOSAL OF SPOILS, AND BACKFILL FOR INLETS, PIPES, MANHOLES & HEADWALLS SHALL BE INCLUDED IN COST OF EACH ITEM.

11. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III (MINIMUM).

IV. TRAFFIC CONTROL & CONSTRUCTION PHASING

1. CONTROL DEVICES".

CONTRACTOR SHALL BE RESPONSIBLE FOR JURISDICTIONAL APPROVAL OF ALL TRAFFIC 2. MANAGEMENT PLANS.

3.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DESIGNATE A TRAFFIC CONTROL 4. SUPERVISOR TO BE RESPONSIBLE FOR TRAFFIC CONTROL AND BARRICADING FOR THE PROJECT. IT WILL BE THAT PERSON'S RESPONSIBILITY TO MAKE SURE ALL BARRICADES ARE PROPERLY PLACED ON THE PROJECT AT ALL TIMES, AND THAT TRAFFIC IS BEING MAINTAINED AS APPROVED. THE CONTRACTOR MUST CHECK THE BARRICADES EVERY DAY, INCLUDING WEEKENDS AND HOLIDAYS, TO MAKE SURE ALL BARRICADES ARE CORRECTLY PLACED AND FUNCTIONAL. THE COST FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND WILL NOT BE PAID FOR SEPARATELY.

RTD ENGINEERING DIVISION

REGIONAL TRANSPORTATION DISTRICT 1600 BLAKE STREET DENVER, COLORADO 80202 (303) 628-9000

- OF THE CONTRACTOR, AND ACT
- IT IS THE CONTRACTOR'S THAT MAY BE IMPACTED.

I. GENERAL

5. THE CONTRACTOR SHALL COOPERATE AND COORDINATE ALL UTILITY WORK WITH THE CONCERNED UTILITY COMPANY OR AGENCY, AS WELL AS RTD.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADJUST AND/OR REPLACE ALL WATER VALVE BOXES AND MANHOLES TO MEET FINAL GRADES IN THIS CONSTRUCTION

7. THE CONTRACTOR IS REQUIRED TO RESET, ADJUST, OR REPLACE ANY UTILITIES THAT ARE IMPACTED BY CONSTRUCTION AND DESIGNATED TO REMAIN.

TRAFFIC CONTROL DEVICES AND BARRICADES MUST BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC

TRAFFIC CONTROL DEVICES AND BARRICADES MUST BE KEPT IN GOOD WORKING ORDER AT ALL TIMES. NO PAYMENT WILL BE MADE FOR BARRICADES THAT ARE DAMAGED, INOPERABLE, OR HAVE NON-FUNCTIONAL LIGHTS (IF REQUIRED), ETC. IF THE CONTRACTOR EXCEEDS THE WORKING TIME LIMIT FOR THE PROJECT, ALL TRAFFIC CONTROL AND BARRICADING COSTS INCURRED AFTER THE WORKING TIME LIMIT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WILL NOT BE REIMBURSED BY RTD. IF THE WORKING TIME LIMIT IS EXCEEDED BY THE CONTRACTOR, THE PROJECT MUST STILL BE SIGNED AND BARRICADED PROPERLY AND SAFELY AT ALL TIMES.

> **BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT**

SHEET REFERENCE NUMBER: SD-G106A

GENERAL STANDARD NOTES - 1 OF 2

V. SURFACE IMPROVEMENTS

- DIMENSIONS SHOWN TO RIGHT-OF-WAY LINES AND EXISTING PHYSICAL STRUCTURES 1. ARE TYPICAL AND MAY VARY.
- 2. FOR STREETS WITH CURBS, DIMENSIONS ARE TO FLOWLINE, UNLESS OTHERWISE INDICATED.
- REMOVAL OF EXISTING ASPHALT MATERIAL, CONCRETE PAVEMENT, CURB AND GUTTER, 3. OR SIDEWALK REQUIRED SHALL BE SAW CUT TO A VERTICAL EDGE. COST TO BE INCLUDED IN WORK. LIMITS OF REMOVAL SHALL BE VERIFIED BY RTD'S CONSTRUCTION PROJECT MANAGER PRIOR TO THEIR REMOVAL.
- EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE 4. CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
- THE TYPE OF COMPACTION FOR EARTHWORK SHALL BE AASHTO T99 UNLESS OTHERWISE 5. NOTED.
- ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED 6. THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED. FOR PLAN QUANTITIES OF BITUMINOUS MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
 - a. DILUTED EMULSIFIED ASPHALT (SLOW SETTING) AT 0.10 GALLONS/SQ. YD. (DILUTED)
 - b. BITUMINOUS PAVEMENT AT 110 LBS./SQ. YD. PER ONE-INCH THICKNESS
- WHEN ORDERED BY THE CONSTRUCTION PROJECT MANAGER, A TACK COAT OF 7. EMULSIFIED ASPHALT (SLOW-SETTING) IS TO BE APPLIED BETWEEN PAVEMENT COURSES TO IMPROVE THE BOND. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF ONE PART EMULSIFIED ASPHALT AND ONE PART WATER.
- RATES OF APPLICATION SHALL BE AS DETERMINED BY THE CONSTRUCTION PROJECT 8 MANAGER AT THE TIME OF APPLICATION.
- CONCRETE SHALL BE DEPTH(S) AS SHOWN ON THE DRAWINGS AND OF MIX DESIGN CLASS "P" (4200 PSI AT 28 DAYS), W/NOVOMESH e3 FIBER REINFORCEMENT. APPLICATION RATE FOR THE FIBER MESH SHALL BE 5 LBS PER CUBIC YARD.
- 10. DEPTH OF MOISTURE DENSITY CONTROL SHALL BE AS FOLLOWS:
 - a. FULL DEPTH OF ALL EMBANKMENTS
 - b. BASES OF CUTS AND FILLS 1.0 FOOT
- SUBGRADE MATERIALS DEEMED UNSUITABLE BY THE CONSTRUCTION PROJECT 11. MANAGER WILL BE EXCAVATED, DISPOSED OF, AND REPLACED WITH APPROVED MATERIAL. REMOVAL OF MATERIAL BELOW PROPOSED TOP OF SUBGRADE AND SUBSEQUENT CONDITIONING WILL BE PAID FOR AS UNCLASSIFIED EXCAVATION AND STRUCTURAL BACKFILL.
- 12. PRIOR TO PLACING NEW EMBANKMENTS ON EXISTING GROUND AND AFTER SPECIFIED COMPACTION HAS BEEN OBTAINED, THE EXISTING SURFACES SHALL BE PROOF-ROLLED AND MONITORED FOR SETTLEMENT. SOFT SPOTS SHALL BE STABILIZED AT THE DIRECTION OF THE ENGINEER.

V. LANDSCAPING

LANDSCAPING ON THE PROJECT SHALL BE MAINTAINED THROUGH

VI. CONTRACTOR REVISION DRAWINGS

- STARTING WITH THE APPROVED ISSUED OR RELEASED FOR CONSTRUCTION (IFC\RFC) 1. DRAWINGS, CONTRACTOR SHALL KEEP A RECORD OF ALL CHANGES TO THE PROJECT, AND SUBMIT UPDATED DRAWINGS EVERY MONTH. THE FINAL SET SHALL BE SUBMITTED PRIOR TO PUNCH LIST WALK THROUGH. SUBMITTALS SHALL BE MADE USING ELECTRONIC PDF FILES.
- 2. CONTRACTOR SHALL CLOSE OUT CONSTRUCTION PERMITS WITH AGENCIES HAVING JURISDICTION, AND SUBMIT FINAL COPIES BEFORE PROJECT ACCEPTANCE.
- THE RTD CONSTRUCTION MANAGER SHALL PROVIDE A LIST OF ALL DOCUMENTS THAT 3. NEED TO BE SUBMITTED PRIOR TO CLOSE OUT OF THE PROJECT.
- VII. TRACER WIRE
- GENERAL

1.

- a. INSTALL ELECTRICALLY CONTINUOUS TRACER WIRE WITH ACCESS POINTS AS DESCRIBED HEREIN TO BE USED FOR LOCATING UNDERGROUND UTILITIES WITH AN ELECTRONIC PIPE LOCATOR AFTER INSTALLATION.
- b. TRACER WIRE SHALL BE INSTALLED WITH THE FOLLOWING UTILITIES: CHILLED WATER, NATURAL GAS, COMPRESSED AIR, STEAM, NON-POTABLE WATER, WATER, ELECTRICAL, COMMUNICATIONS, OR OTHER INSTALLATIONS AS INDICATED ON THE CONSTRUCTION DOCUMENTS.
- 2 PRODUCTS
 - a. TRACER WIRE MATERIAL
 - i. TRACER WIRE SHALL BE CONSTRUCTED WITH A # 12 AWG COPPER CONDUCTOR AND WITH A 45 MIL HDPE INSULATED JACKET RECOMMENDED FOR DIRECT BURIAL. JACKET COLOR SHALL BE SUITABLE FOR THE UTILITY BEING TRACED PER THE AMERICAN PUBLIC WORK ASSOCIATION UNIFORM COLOR CODE, PER ANSI STANDARD Z535.1. COLORS UTILIZED BY RTD ARE: RED FOR ELECTRIC; YELLOW FOR NATURAL GAS, COMPRESSED AIR AND STEAM; GREEN FOR STORM SEWER; BROWN FOR SANITARY SEWER; ORANGE FOR COMMUNICATIONS; BLUE FOR POTABLE WATER; PURPLE FOR NON-POTABLE WATER AND CHILLED WATER.
 - ii. WIRE CONNECTORS TO BE 3M DBR, OR APPROVED EQUAL, AND SHALL BE WATERTIGHT TO PROVIDE ELECTRICAL CONTINUITY.
 - iii. COPPER CONDUCTORS: COPPER CONDUCTORS SHALL BE ANNEALED COPPER (SOFT DRAWN). CONDUCTORS SHALL MEET OR EXCEED ALL APPLICABLE ASTM SPECIFICATIONS, AND REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, INCLUDING: ASTM B-3, STANDARD SPECIFICATION FOR SOFT OR ANNEALED COOPER WIRE; AND ASTM B-170, STANDARD SPECIFICATION FOR SOFT ON ANNEALED COPPER WIRE

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iv. HDPE JACKET: CONDUCTORS SHALL BE INSULATED WITH HIGH DENSITY, HIGH MOLECULAR WEIGHT, POLYETHYLENE (HDPE) INSULATION. JACKET SHALL MEET OR EXCEED ALL APPLICABLE ASTM SPECIFICATIONS, AND REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, INCLUDING: ASTM D1248, STANDARD SPECIFICATION OF POLYETHYLENE PLASTICS EXTRUSION MATERIALS FOR WIRE AND CABLE; AND ASTM D1238 STANDARD TEST METHODS FOR MELT FLOW RATES OF THERMOPLASTICS BY EXTRUSION PLASTOMETER.

b. UNDERGROUND TERMINALS

i. FOR LOCATIONS WHERE VALVE BOXES, VAULTS, OR SIMILAR ACCESS POINTS ARE NOT PRESENT, UNDERGROUND TERMINALS, OR "FINK BOXES", SHALL BE FLUSH MOUNT TYPE, INSTALLED WITH A CONCRETE COLLAR. TERMINAL BOXES SHALL HAVE AT LEAST FOUR SPARE TERMINALS TO ALLOW FOR FUTURE USE. TERMINAL BOXES SHALL BE INSTALLED FLUSH WITH FINISHED GRADE, AND CENTERED IN A GRADE LEVEL CONCRETE PAD. THE CONCRETE PAD SHALL MEASURE 18 INCHES BY 18 INCHES, AND BE 6 INCHES DEEP.

II. HOUSING, COVER, AND TERMINAL BOARD SHALL BE MADE OF HIGH STRENGTH POLYCARBONATE ALLOY PLASTIC. THE COMPLETE ASSEMBLY SHALL BE RATED FOR H20 TRAFFIC LOADING AND IMPERVIOUS TO CHEMICALS ROUTINELY USED IN STREET MAINTENANCE AND SNOW REMOVAL.

III. TERMINAL BOARD SHALL HAVE NICKEL PLATED BRASS TERMINALS. NUMBER OF TERMINALS SHALL BE AS REQUIRED FOR SPECIFIC INSTALLATION WITH A LEAST FOUR SPARE TERMINALS AVAILABLE AT THE DATE OF INSTALLATION.

IV. MINIMUM DIMENSIONS SHALL BE 5-1/2 INCH DIAMETER, 8 INCHES HIGH, AND BASE SHALL BE SIZED TO FIT A 4 INCH SCHEDULE 40 PIPE.

c. TESTING REQUIREMENTS

CONTRACTOR SHALL PERFORM A CONTINUITY TEST ON ALL TRACER WIRE IN THE PRESENCE OF RTD OR RTD'S REPRESENTATIVE AT THE TIME THE BACKFILL IS COMPLETED TO FINAL GRADE. LOCATE INSTRUMENTS SHALL BE OPERATED ON THE TRACER WIRE TO VERIFY THE INSTALLATION IS FULLY FUNCTIONING, COMPLETE AND CONTINUOUS. IF THE TRACER WIRE IS FOUND TO BE NOT CONTINUOUS OR FUNCTIONAL AFTER TESTING, CONTRACTOR SHALL REPAIR OR REPLACE THE FAILED SEGMENT OF THE WIRE AT THEIR OWN EXPENSE

> **BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT**

> > GENERAL STANDARD NOTES - 2 OF 2

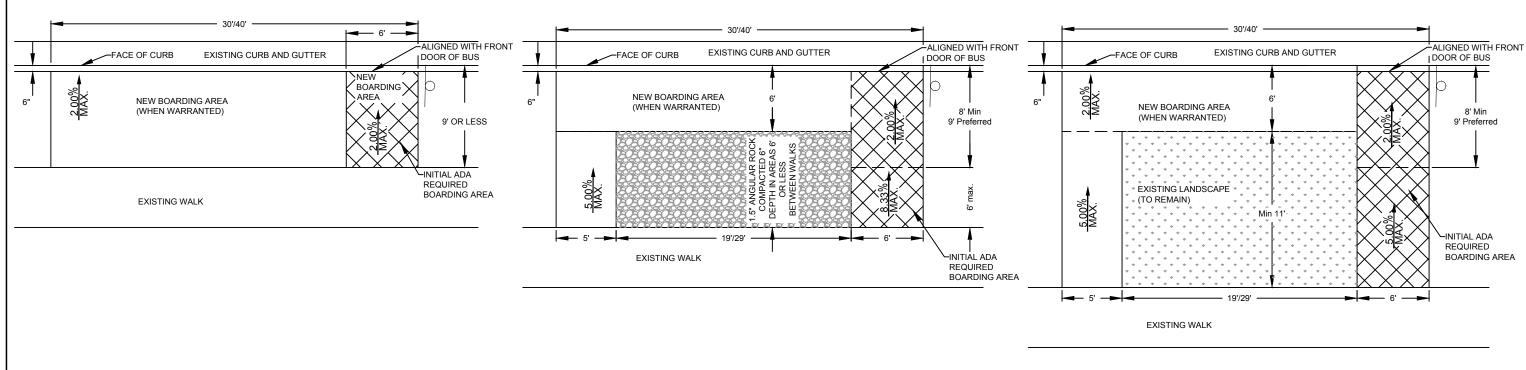
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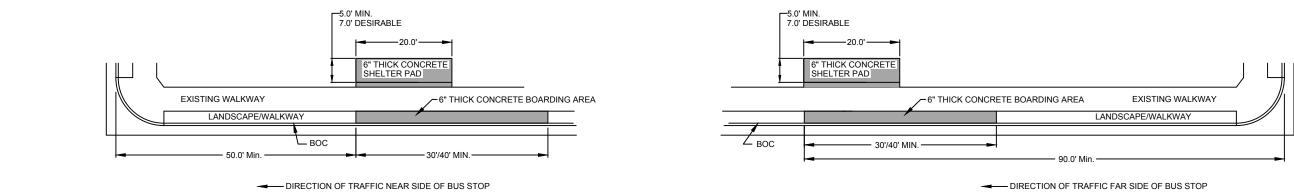
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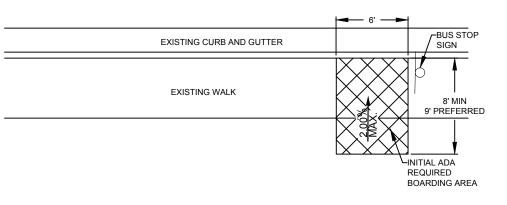
- - 7. FAR SIDE BUS STOPS SHALL HAVE FRONT OF BOARDING AREA PLACED 90' MINIMUM FROM FACE OF CURB OF THE EXISTING CROSS STREET.
 - NEAR SIDE BUS STOPS SHALL HAVE FRONT OF BOARDING AREA PLACED 8. 50' MINIMUM FROM FACE OF CURB OF THE EXISTING CROSS STREET.
 - 9.





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CIVIL
BUS STOP LAYOUT

BUS INFRASTRUCTURE STANDARD DRAWINGS **REGIONAL TRANSPORTATION DISTRICT**

SHEET REFERENCE NUMBER: SD-C101

08 OF 68

CONCRETE BOARDING AREA SHALL BE PROVIDED ENTIRE 30'/40' FROM FACE OF EXISTING WALK TO BACK OF CURB WHEN BUS SHELTER IS INSTALLED.

4. WIDTH OF BOARDING AREA CONCRETE BOARDING PAD SHALL BE 9' WHEN EXISTING ROW IS AVAILABLE, OTHERWISE A MINIMUM WIDTH OF 8' IS REQUIRED.

BACK A MINIMUM OF 8' (9' DESIRABLE) TO ALLOW FOR DEPLOYMENT OF LIFTS FROM BUSES FOR THE AID OF DISABLED PASSENGERS.

6. A 6" THICK CONCRETE SHELTER PAD SHALL BE PROVIDED 20' IN LENGTH AND 5' MINIMUM (7' DESIRABLE) FOR PLACEMENT OF BUS SHELTER, SET

5. CONCRETE SHALL BE A MINIMUM THICKNESS OF 6".

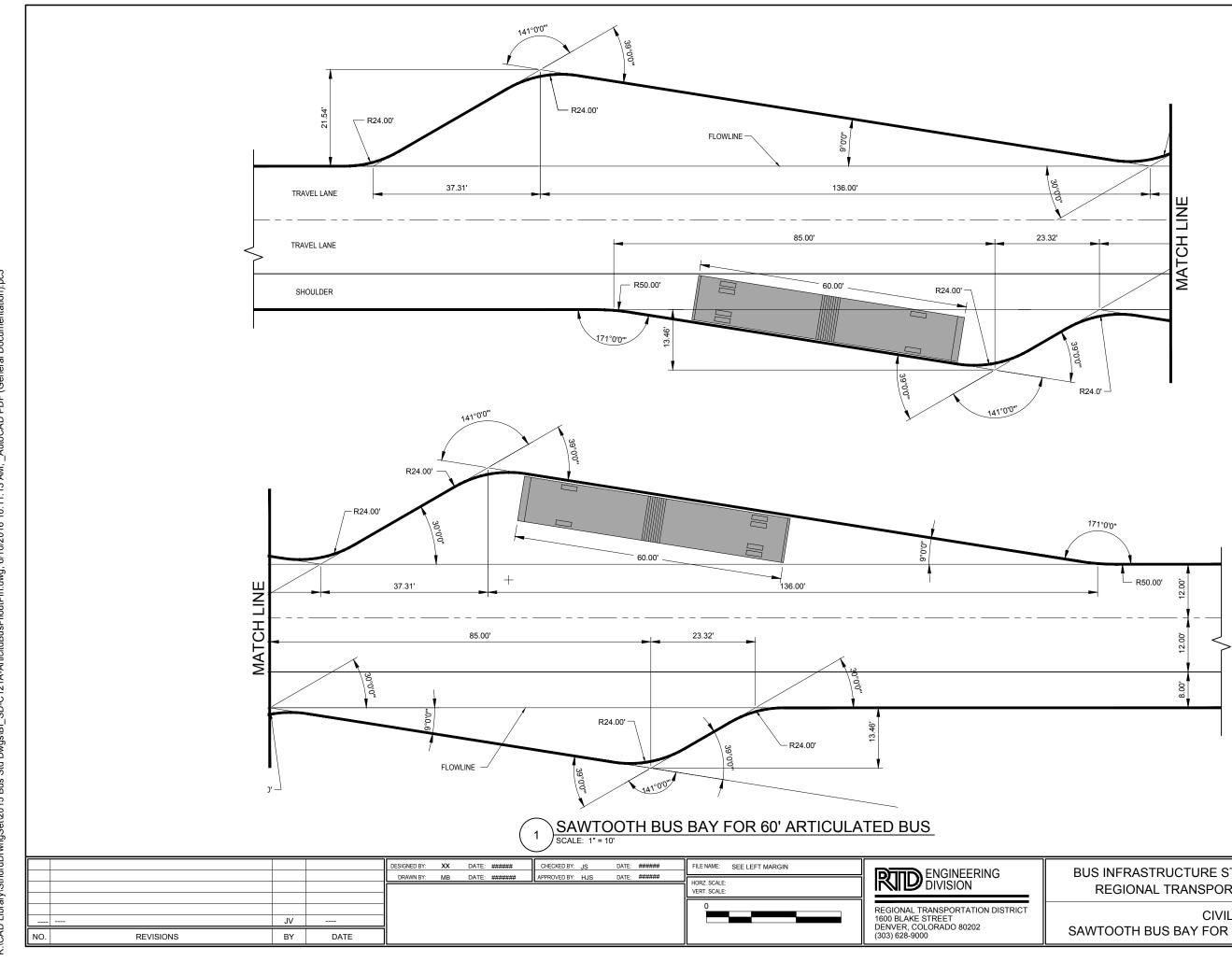
1. FAR SIDE BUS STOPS ARE PREFERRED.

2. BUS STOP LOCATIONS SHALL BE COORDINATED WITH RTD SERVICE

3. BUS PAD INSTALLATION IS DETERMINED BY PAVING DESIGN, SOIL, AND SUBGRADE CONDITIONS, PREFERENCES OF LOCAL AGENCIES, AND

FUNDING AVAILABILITY.

PLANNING AND LOCAL AGENCIES.



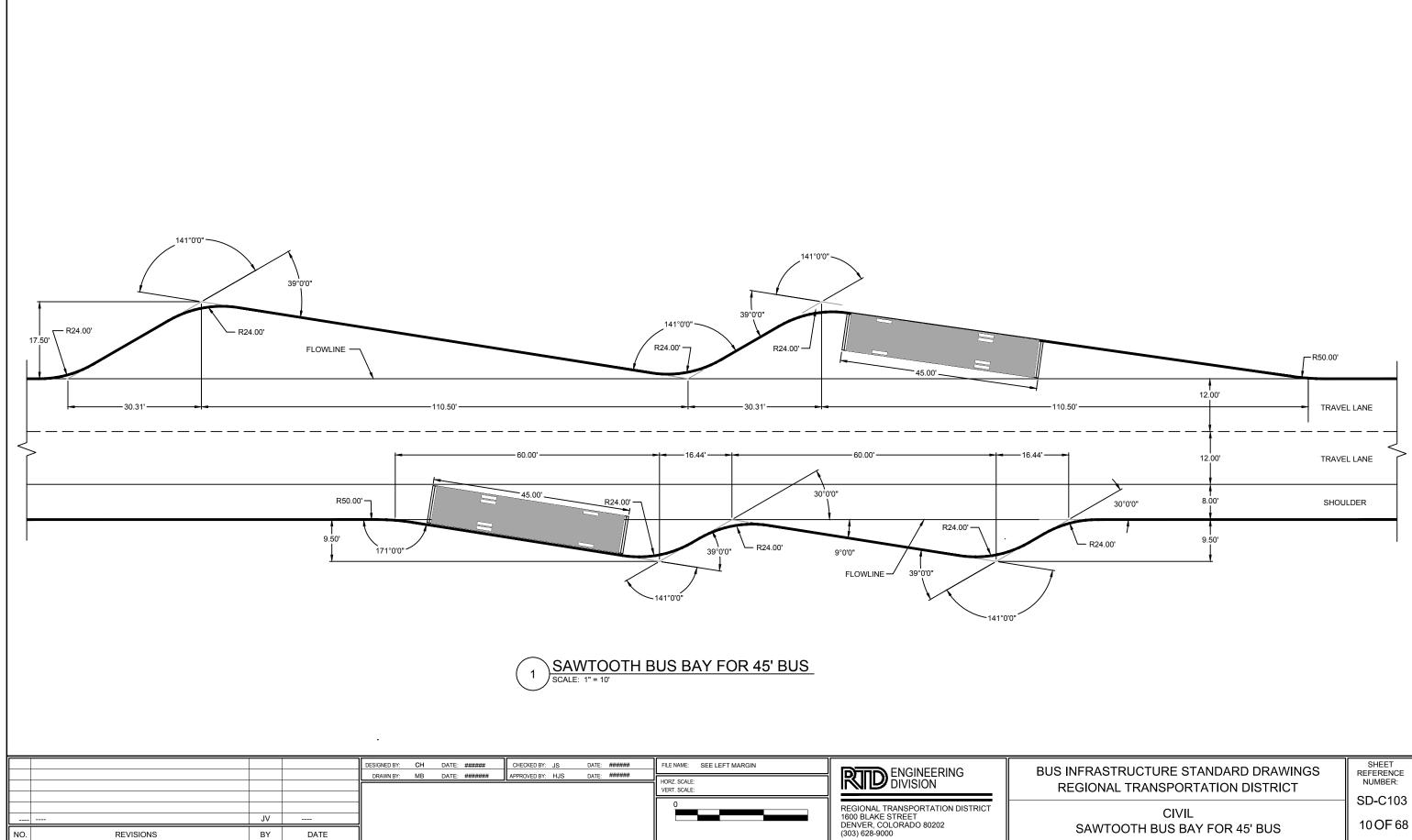
CIVIL SAWTOOTH BUS BAY FOR 60' ARTICULATED BUS

BUS INFRASTRUCTURE STANDARD DRAWINGS **REGIONAL TRANSPORTATION DISTRICT**

SD-C102

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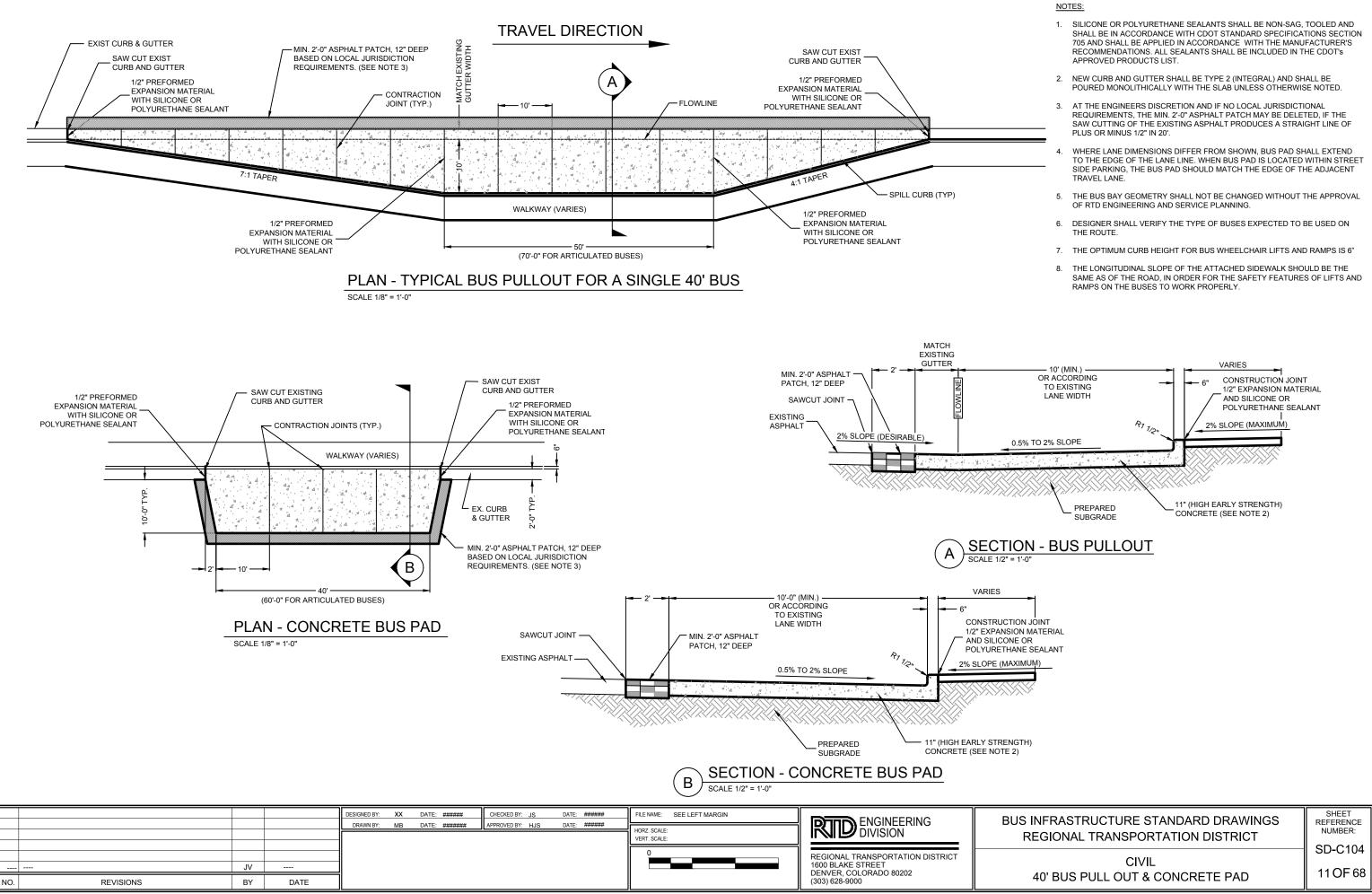
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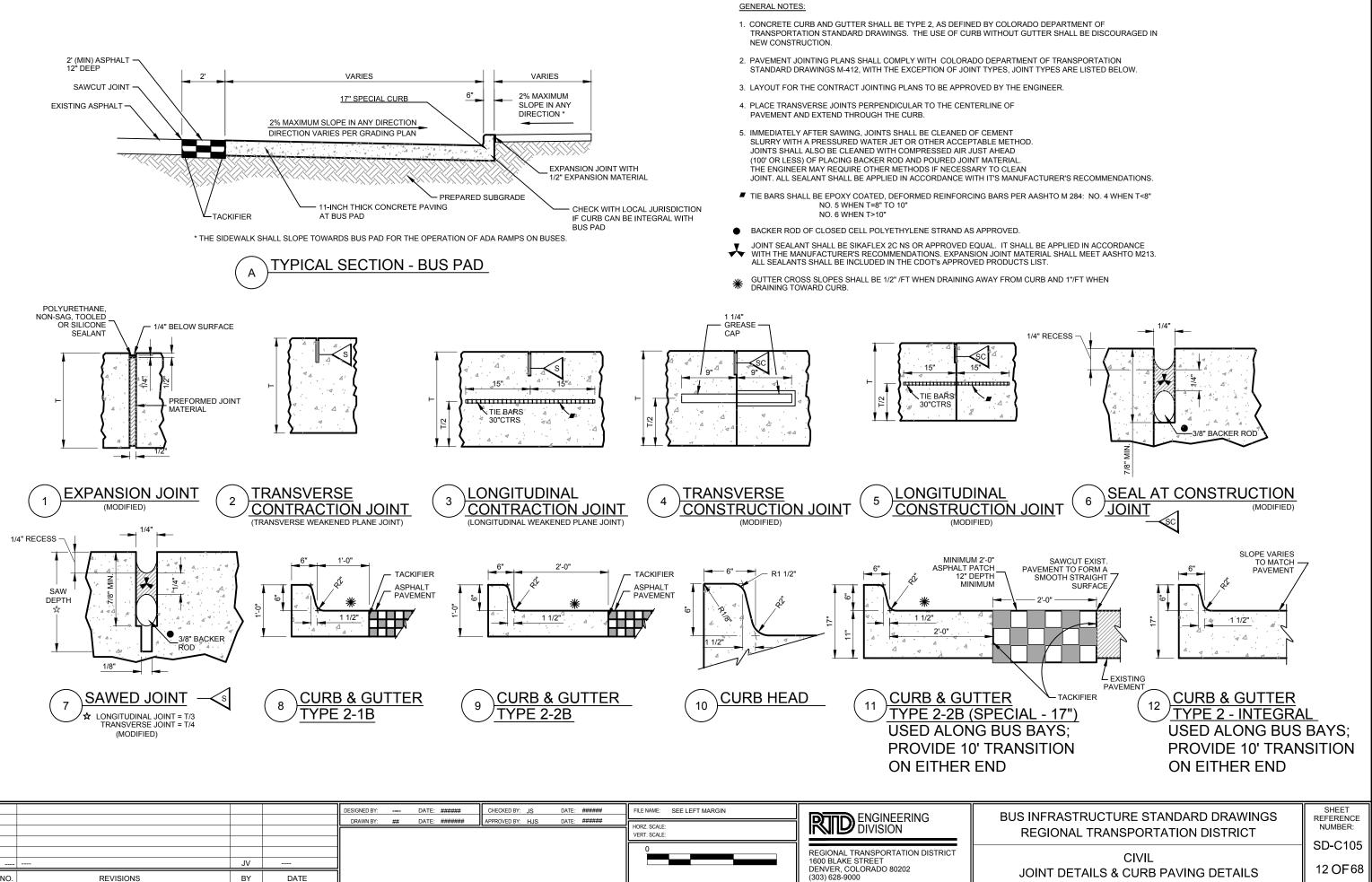
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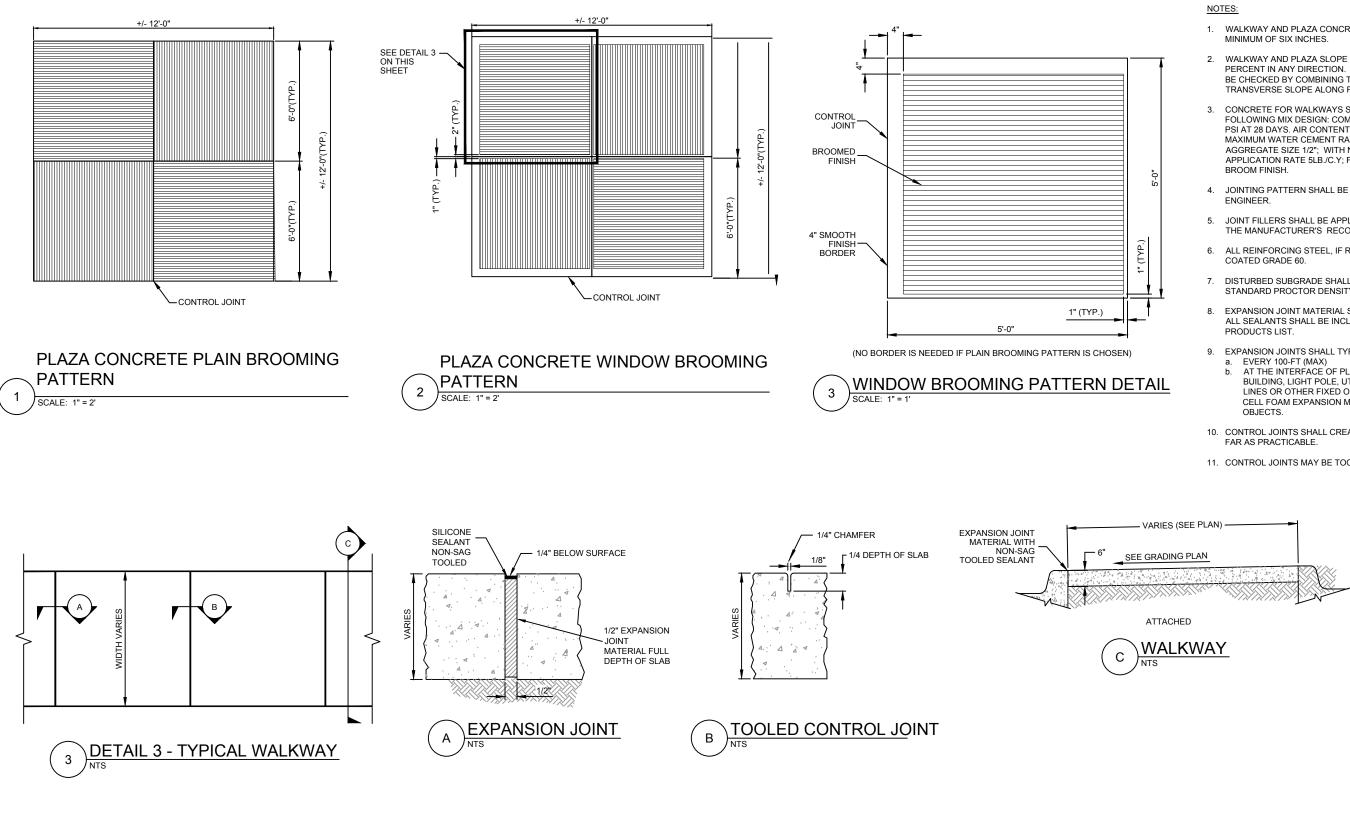
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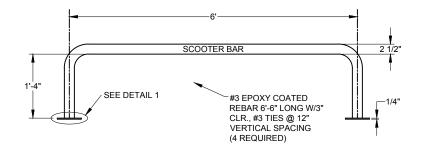


- 1. WALKWAY AND PLAZA CONCRETE THICKNESS SHALL BE A
- 2. WALKWAY AND PLAZA SLOPE SHALL NOT EXCEED 2 PERCENT IN ANY DIRECTION. THIS REQUIREMENT SHALL BE CHECKED BY COMBINING THE LONGITUDINAL AND TRANSVERSE SLOPE ALONG PLAZAS AND WALKWAYS.
- 3. CONCRETE FOR WALKWAYS SHALL HAVE THE FOLLOWING MIX DESIGN: COMPRESSIVE STRENGTH 4200 PSI AT 28 DAYS. AIR CONTENT PERCENT RANGE 5-8; MAXIMUM WATER CEMENT RATIO 0.44; MAXIMUM AGGREGATE SIZE 1/2"; WITH NOVOMESH 950, APPLICATION RATE 5LB./C.Y; FINISH TYPE C - MEDIUM
- 4. JOINTING PATTERN SHALL BE APPROVED BY THE RTD
- JOINT FILLERS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 6. ALL REINFORCING STEEL, IF REQUIRED, SHALL BE EPOXY COATED GRADE 60.
- 7. DISTURBED SUBGRADE SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 8. EXPANSION JOINT MATERIAL SHALL MEET AASHTO M213. ALL SEALANTS SHALL BE INCLUDED IN CDOT'S APPROVED
- 9. EXPANSION JOINTS SHALL TYPICALLY BE LOCATED:
 - AT THE INTERFACE OF PLAZA OR WALKWAY WITH A BUILDING, LIGHT POLE, UTILITY MANHOLE, AT BREAK LINES OR OTHER FIXED OBJECT. USE CLOSED CELL FOAM EXPANSION MATERIAL FOR ROUND
- 10. CONTROL JOINTS SHALL CREATE A SQUARE PATTERN AS
- 11. CONTROL JOINTS MAY BE TOOLED OR SAW CUT.

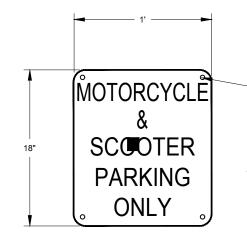
BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

SHEET REFERENCE NUMBER: SD-C106

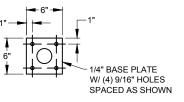
CIVIL WALKWAY & PLAZA DETAILS













		DESIGNED BY: XX DATE: ####### CHECKED BY: JS DATE: ####### DRAWN BY: MB DATE: ######### APPROVED BY: HJS DATE: ####################################	FILE NAME: SEE LEFT MARGIN	
	JV	-	HORZ SCALE: VERT. SCALE: 0	REGIONAL TRANSPORTATION DISTRICT 1600 BLAKE STREET
NO. REVISIONS	BY DATE			DENVER, COLORADO 80202 (303) 628-9000

NOTE:

1. 2" SCHEDULE 40 STEEL PIPE, HOT DIP GALVANIZED. 1-1/4" BLACK STENCIL ON TOP OF BAR.

2. PROVIDE ¹/₂" Ø THREADED ROD EPOXY ANCHORS WITH 4" EMBEDMENT. ALL HARDWARE SHALL BE GALVANIZED PER ASTM A153. DEFORM THREADS AFTER INSTALLATION.

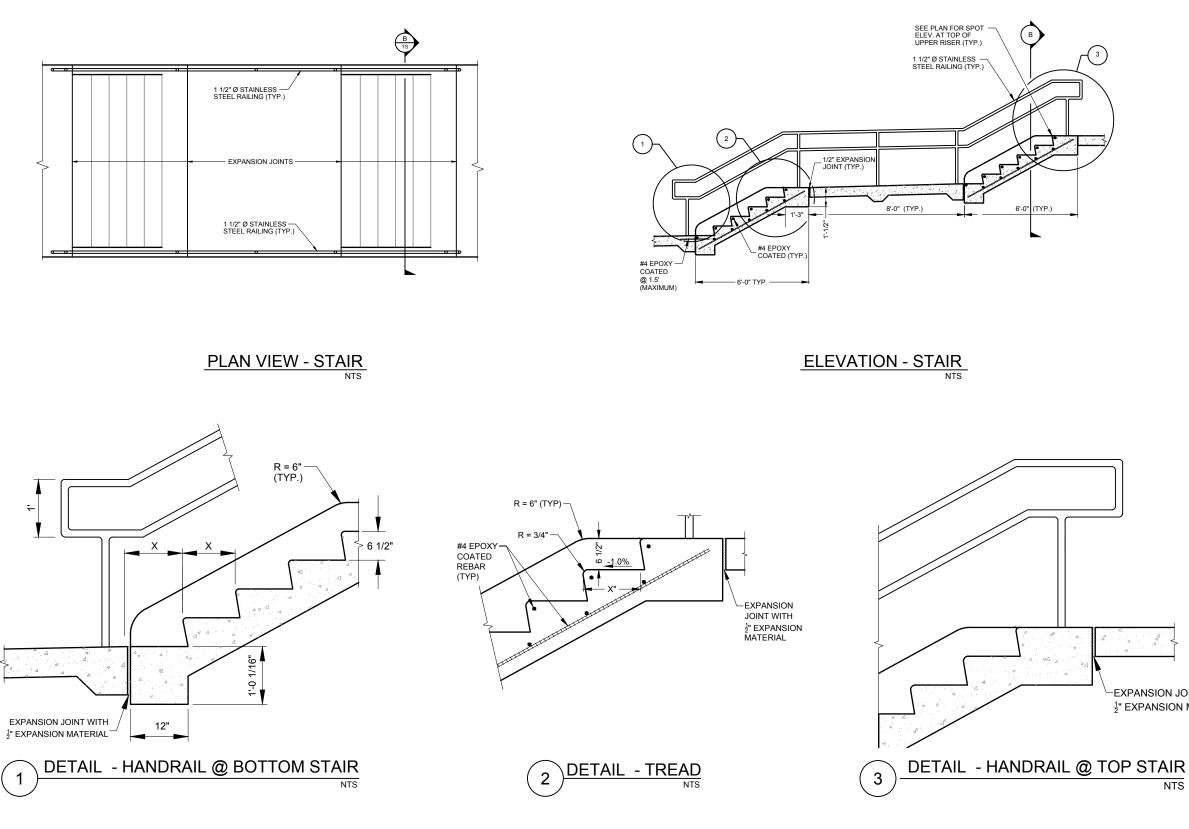
 – 1/4" x 1-1/4" HILTI S.S. METAL HIT ANCHOR (TYP) OR APPROVED EQUAL

<u>NOTE:</u> SEE SD-SN101A FOR INSTALLATION DETAIL.

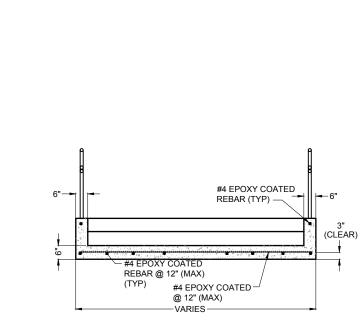
BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

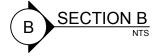
SHEET REFERENCE NUMBER: SD-C107

CIVIL MOTOR CYCLE PARKING



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			-		0	REGIONAL TRANSPORTATION DISTRICT 1600 BLAKE STREET	
NO.	REVISIONS BY	DATE				DENVER, COLORADO 80202 (303) 628-9000	





NOTE:

1. STAINLESS STEEL OR GALVANIZED AND POWDER COATED RAILING IS REQUIRED UNLESS OTHERWISE SPECIFIED BY RTD.

2. STAINLESS STEEL FOR RAILINGS SHALL CONFORM TO TYPE 316. MILD STEEL FOR RAILING SHALL CONFORM TO ASTM A500 GR B.

3. WHEN RAILING IS USED AT RAMPS, THE TREAD LENGTH IS ALWAYS 11" (X = 11").

4. VERTICAL RISE FOR A FLIGHT OF STAIRS SHALL BE 12 FEET.

5. DESIGNER TO CHECK COMPLIANCE WITH LOCAL CODES AND GRADING PLAN.

6. CONCRETE SHALL BE CLASS D CONCRETE.

7. ALL HANDRAILS SHALL COMPLY WITH LATEST ADA STANDARDS FOR ACCESSIBLE DESIGN, SECTION 505, AND THE LATEST INTERNATIONAL BUILDING CODE (IBC) REQUIREMENTS.

8. ALL HANDRAILS SHALL BE SURFACE MOUNTED.

9. THE WIDTH OF STAIRS AND NUMBER OF RAILINGS SHALL COMPLY WITH IBC.

10. USE HEAVY BROOM FINISH FOR CAST-IN-PLACE STAIRS AND ANTI-SLIP COATING FOR TREADS ON PRECAST STAIRS.

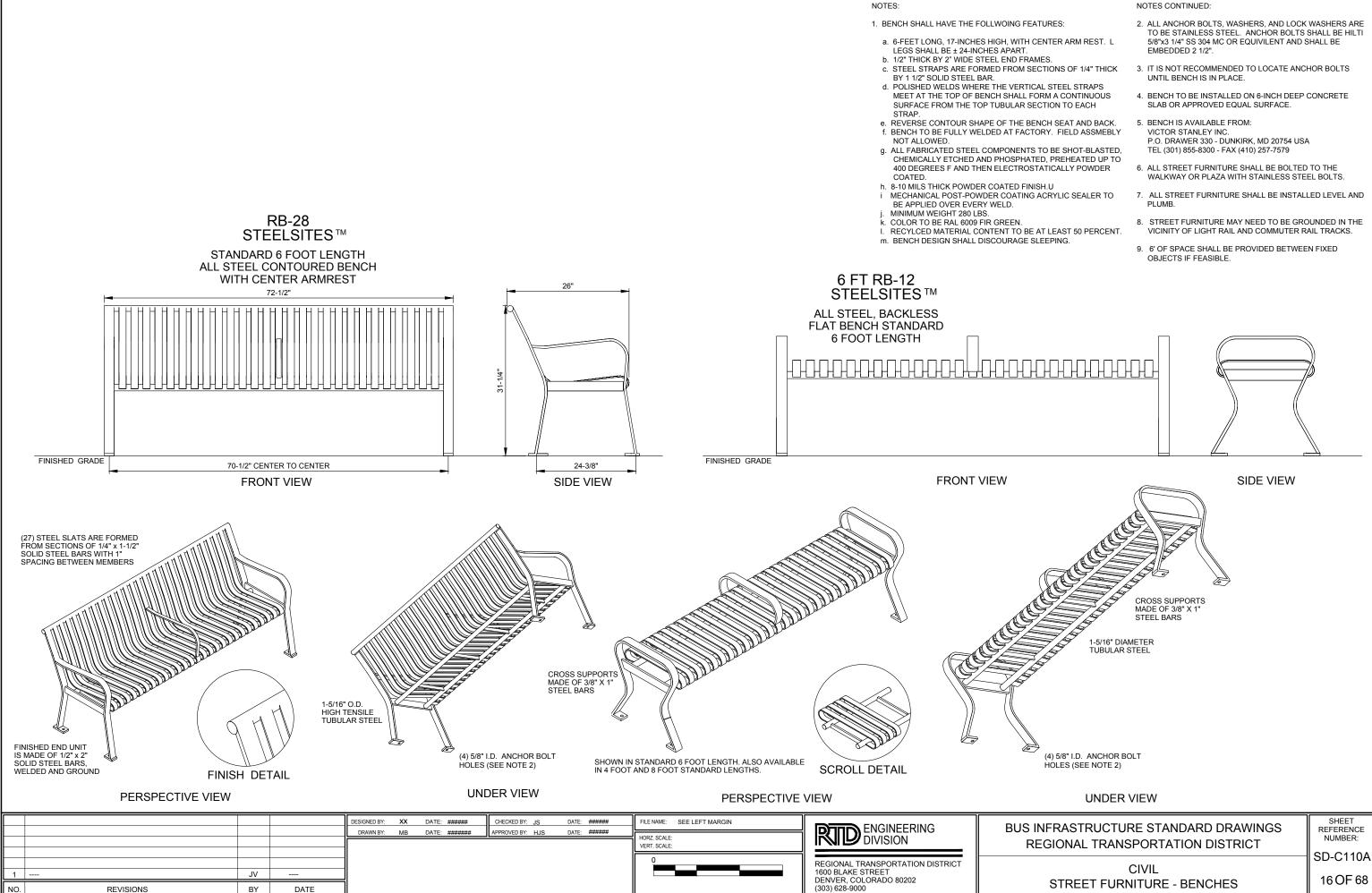
BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

SHEET REFERENCE NUMBER:

SD-C108 15 OF 68

CIVIL CONCRETE STAIRS

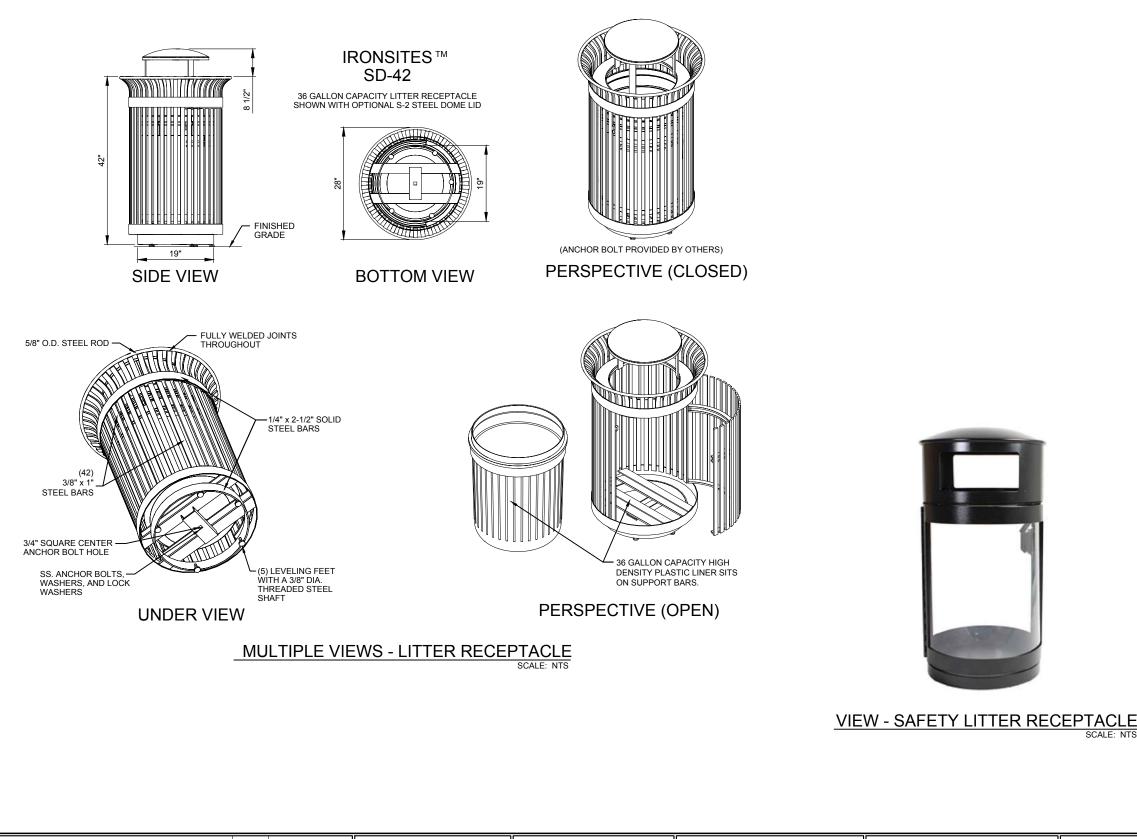
-EXPANSION JOINT WITH ¹/₂" EXPANSION MATERIAL



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NOTES CONTINUED:





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NOTES:

STREET FURNITURE

- 1. ALL STREET FURNITURE SHALL BE BOLTED TO THE WALKWAY OR PLAZA WITH STAINLESS STEEL BOLTS.
- 2. ALL STREET FURNITURE SHALL BE INSTALLED LEVEL AND PLUMB.
- 3. STREET FURNITURE MAY NEED TO BE GROUNDED IN THE VICINITY OF THE LIGHT RAIL AND COMMUTER RAIL TRACKS.
- 4. 6' OF SPACE SHALL BE PROVIDED BETWEEN FIXED OBJECTS IF FEASIBLE.

LITTER RECEPTACLE NOTES:

- REFER TO LATEST VERSION OF RTD SAFETY & SECURITY CRITERIA 1. FOR THIS ITEM.
- 2. ALL DIMENSIONS ARE IN INCHES.
- 3. STANDARD COLOR SHALL BE RAL 6009 FIR GREEN RECPETACLE SHALL HAVE SIDE DOOR PROVIDED WITH A LATCH.
- 4. THE RECEPTACLE LID SHALL BE RIVETED ON TO THE FRAME.
- ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED AND ELECTROSTATICALLY 5. POWDER-COATED WITH TGIC POLYESTER POWDER COATINGS. 8-10 MILS THICK POWDER COATED FINISH.
- DOOR HINGES TO BE COMPOSED OF EMBEDDED PRECISION STAINLESS-STEEL PIVOT PINS AND OIL IMPREGNATED BRONZE 4. BUSHINGS.
- 5. MECHANICAL POST-POWDER COATING ACRYLIC SEALER TO BE APPLIED OVER EVERY WELD.
- WEIGHT: 310 LBS. 6.
- NO ASSEMBLY REQUIRED. 7.
- DESIGNER TO DETERMINE TYPE OF RECEPTACLE AT A PARTICULAR 8. LOCATION.
- AVAILABLE FROM 9. VICTOR STANLEY, INC. P.O. DRAWER 330 DUNKIRK, MARYLAND 20754 USA 1.800.368.2573 (USA & CANADA) TEL: 301.855.8300 FAX: 410.257.7579 http://www.victorstanley.com OR http://www.trash-cans.com
- 10. DOOR TO BE SECURED BY KEYLESS INTERNAL LATCH.

SAFETY RECEPTACLE NOTES:

- REFER TO LATEST VERSION OF RTD SAFETY & SECURITY CRITERIA FOR THIS ITEM 1.
- SUCURR 35 GALLON GUARDIAN SERIES HS350W-CS LITTER RECEPTACLE FRAME COLOR BLACK OR APPROVED EQUAL. 2.
- 3. ADA COMPLIANT.
- 4. HAS SIDE OPENING DOOR AND RIGIND PLASTIC LINER.
- PANELS ARE AVAILABLE IN MAKROLON CLEAR POLYCARBONATE. 5.
- TWO THICKNESSES AVAILABLE: .093 AND 0.236. ALL LATCHES, HINGES, AND HARDWARE ARE MADE OFSTAINLESS 6. OR ZINC PLATED STEEL.
- 7. FRAMES TO BE 14 GAUGE GALVANEALED STEEL.
- 8. FINISHED INSIDE AND OUTSIDE WITH POWDER COATING.
- 10. AVAILABLE FROM: VICTOR STANLEY, INC. P.O. DRAWER 330 DUNKIRK, MARYLAND 20754 USA 1.800.368.2573 (USA & CANADA) TEL: 301.855.8300 FAX: 410.257.7579 http://www.victorstanley.com OR http://www.trash-cans.com
- 11. DOOR TO BE SECURED BY KEYLESS INTERNAL LATCH.



BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

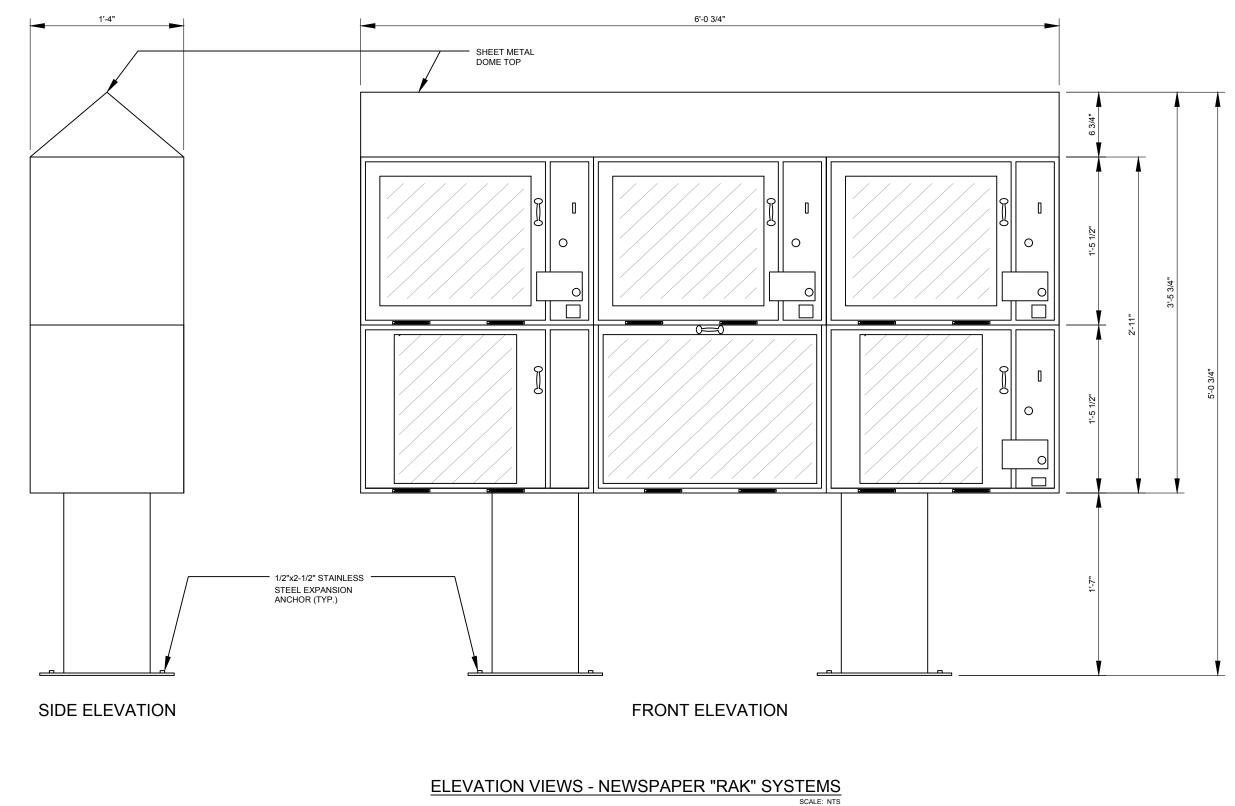
SHEET REFERENCE NUMBER:

CIVIL

STREET FURNITURE - TRASH RECEPTACLES

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SD-C110B



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NO.	REVISIONS	BY	DATE							(303) 628-9000	
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NOTES: 1. NEWSPAPER AND PERIODICAL STORAGE SHALL BE CONSOLIDATED IN A SINGLE DISPENSING AND STORAGE SYSTEM AT A LOCATION.

2. PERIODICAL STORAGE SYSTEM SHALL HAVE A DESIGN THAT PREVENTS SNOW ACCUMULATION.

3. THE NEWSPAPER STORAGE SYSTEM SHALL BE MODULAR, AND HAVE COMPARTMENTS.

4. COMPARTMENTS HOLDING NEWSPAPERS SHALL HAVE A LOCKING OPTION.

5. COMPARTMENTS HOLDING FREE PERIODICALS SHALL HAVE A LATCHING MECHANISM.

6. RTD FACILITIES MANAGEMENT COORDINATES WITH VENDORS TO DETERMINE HOW MANY COMPARTMENTS ARE NEEDED AT A PARTICULAR LOCATION. CONTACT 303-299-2277.

7. ALL FABRICATED COMPONENTS SHALL BE STEEL SHOT BLASTED, ETCHED PHOSPHATIZED AND ELECTROSTATICALLY POWDER COATED WITH TGIC POLYYESTER POWDER COATING.

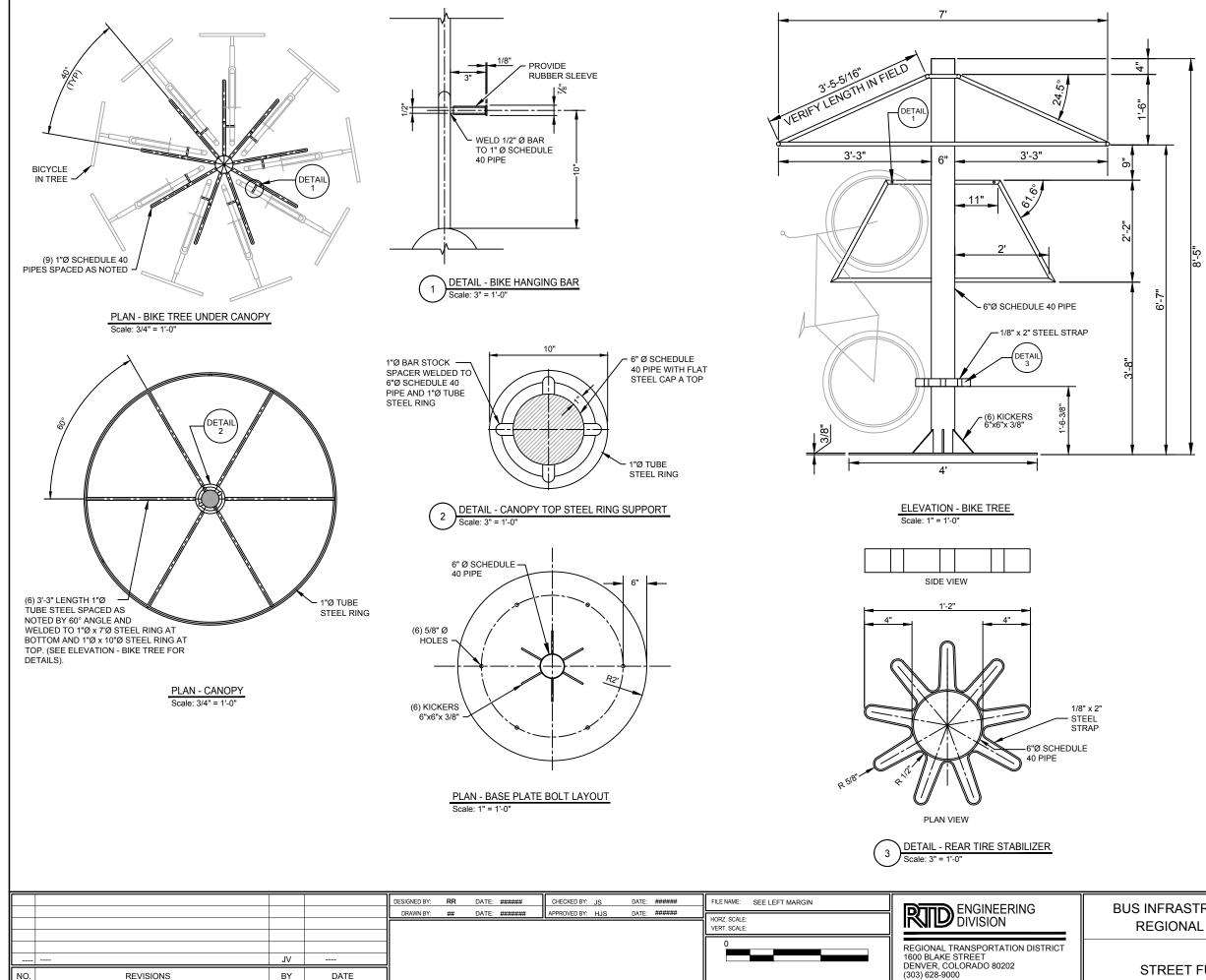
8. NEWSPAPER RACK IS AVAILABLE FROM: RAK SYSTEMS, INC. 5500 PLANTATION RD. THEODORE, AL 36582 U.S.A. TOLL FREE: (800) 467-1725 LOCAL: (251) 653-4080 FAX: (251) 653-1014

9. CONCTACT RTD FACILITY MAINTENANCE FOR NUMBER PUBLICATION CONDOS.

10. SOME PUBLICATIONS ARE NOT PRECLUDED FROM USING THEIR OWN CONDOS.

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

CIVIL STREET FURNITURE - NEWS PAPER RACK SHEET REFERENCE NUMBER: SD-C110C



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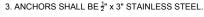
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- 1. PATENT NUMBER TO BE STAMPED INTO BASE PLATE (D621,751). 2. FINISHED WITH POWDER COATING, COLOR MAY VARY.



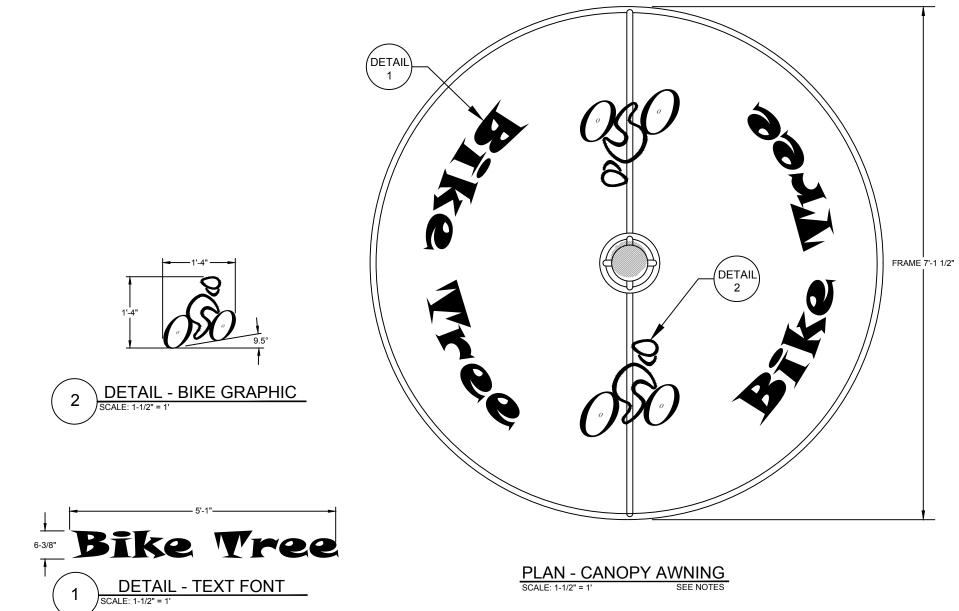
BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

SHEET REFERENCE NUMBER: SD-C110D

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STREET FURNITURE - BIKE TREE PLAN

CIVIL



DESIGNED BY: XX DATE: ######

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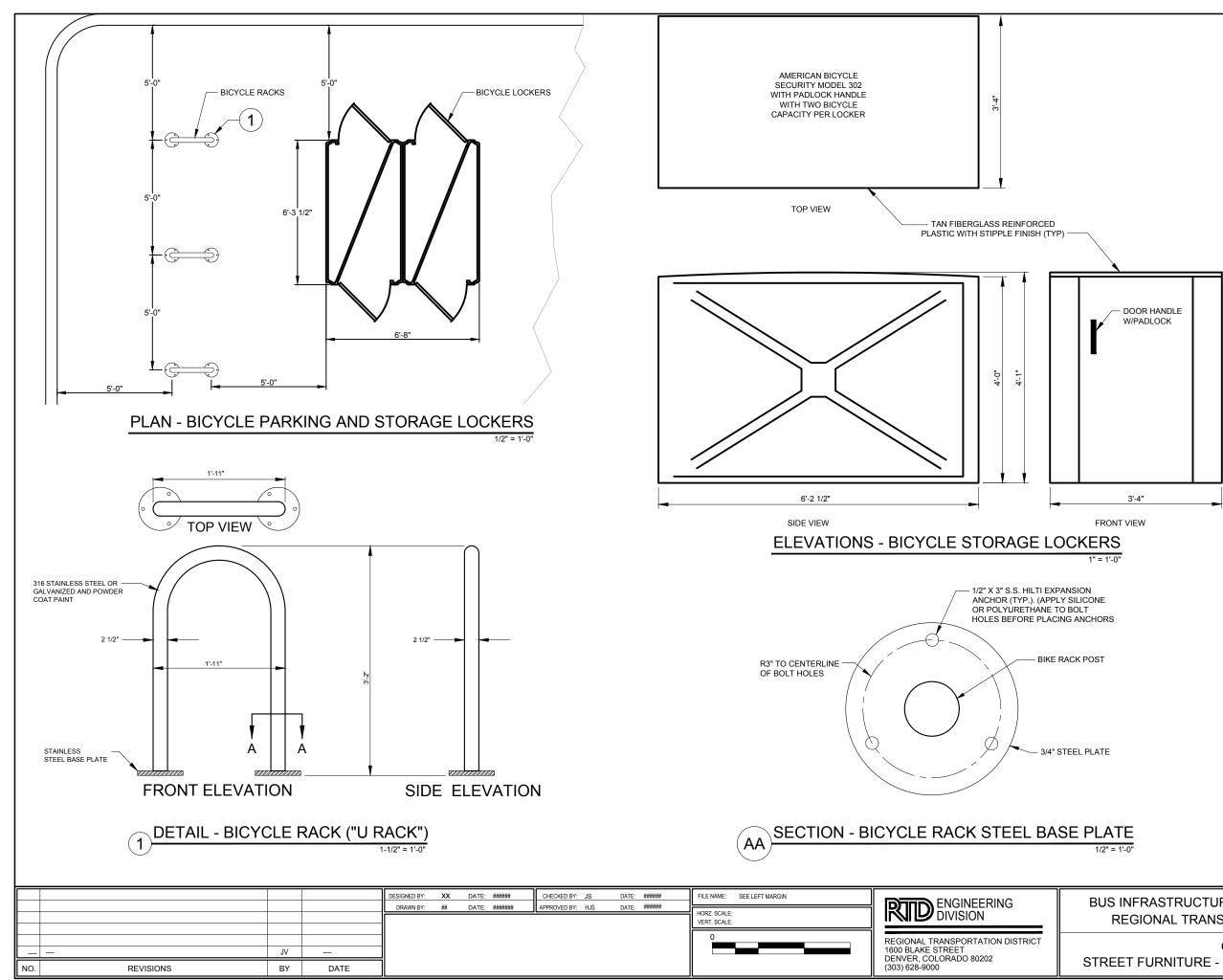
- NOTES: 1. FABRIC: SUNBRELLA, BUTTER CUP, 4635 2. FONT: SNAP ITC. 3. LACING: BLACK. 4. LACING SPACING FROM BARS: 1" (TOP & BOTTOM BARS). 5. SEAMS: CLEAR STITCHING.

BUS INFRASTRUCTURE STANDARD DRAWINGS **REGIONAL TRANSPORTATION DISTRICT**

SHEET REFERENCE NUMBER: SD-C110E

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CIVIL STREET FURNITURE - BIKE TREE CANOPY



NOTES:

1. BIKE LOCKERS SHALL BE ONE PIECE, NO ASSEMBLY, COMPOSITE BIKE LOCKER WITH A FIBER-REINFORCED POLYMER (FRP) COMPOSITE ENCLOSURE.

2. BIKE LOCKERS SHALL BE A SINGLE RECTANGULAR UNIT THAT CONTAINS TWO TRIANGULAR BAYS, EACH ACCESSED FROM ONE END OF THE RECTANGULAR BOX.

3. PADLOCK HANDLE WILL ACCOMMODATE HIGH SECURITY PADLOCKS.

4. DOOR HINGES WILL NOT RUST, ALL FASTENERS ON LOCKING SYSTEM SHALL BE ZINC PLATED OR BETTER, LOCKER SHALL ANCHOR IN ALL FOUR CORNERS THROUGH BASE FLANGES USING EXPANSION ANCHORS.

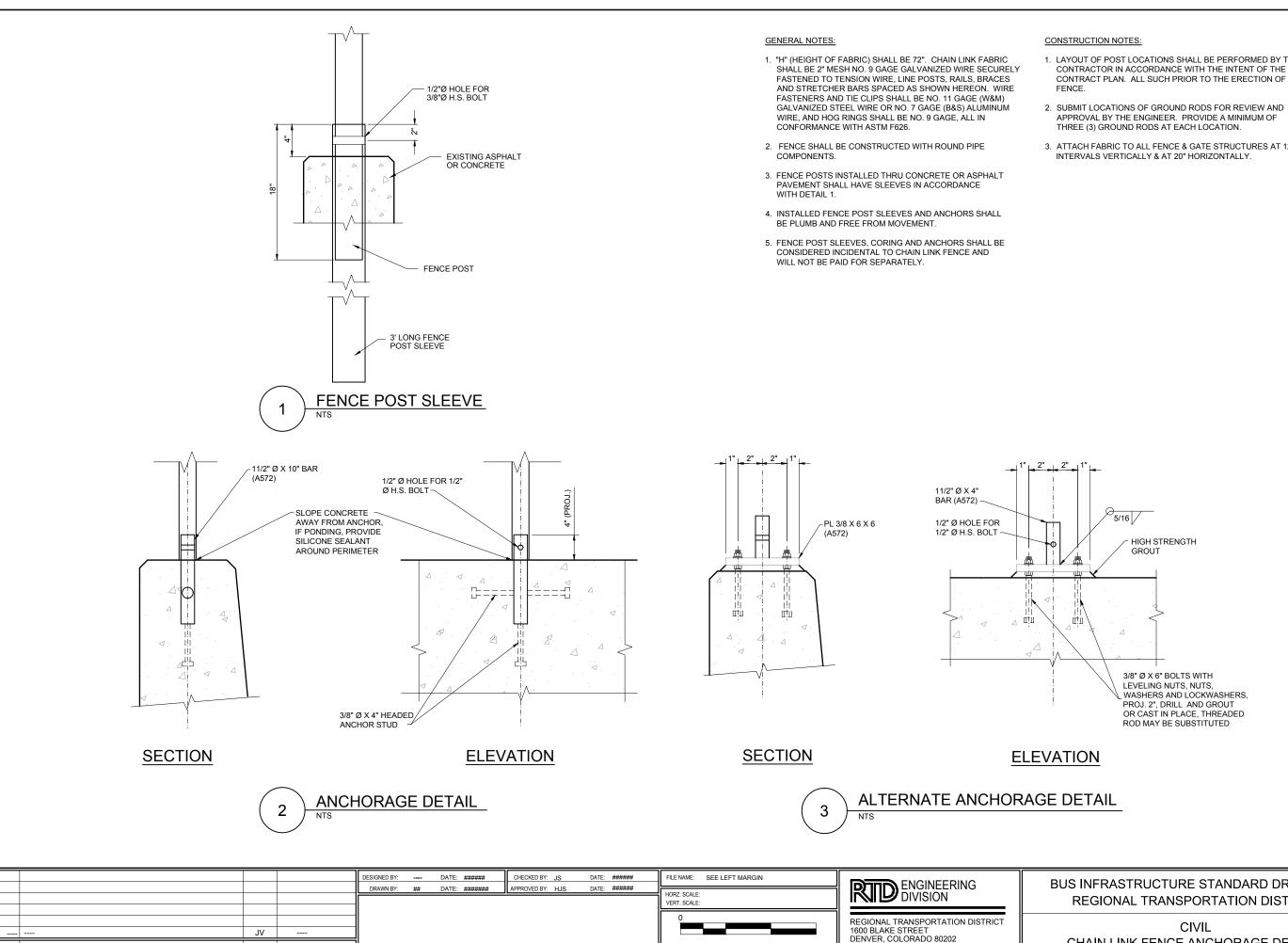
5. BIKE LOCKERS SHALL BE EQUAL TO OR BETTER THAN THE AMERICAN BICYCLES SECURITY COMPANY'S BIKE SHELL MODEL 302-ECO.

6. AVAILABLE FROM LANDSCAPE FORMS: WEST COAST SALES TEAM, LANDSCAPE FORMS INC. OFFICE: 1-800-441-1945 X 1338.

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

SHEET REFERENCE NUMBER: SD-C110F

CIVIL STREET FURNITURE - BIKE PARKING & STORAGE



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1. LAYOUT OF POST LOCATIONS SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE INTENT OF THE CONTRACT PLAN. ALL SUCH PRIOR TO THE ERECTION OF THE

APPROVAL BY THE ENGINEER. PROVIDE A MINIMUM OF

3. ATTACH FABRIC TO ALL FENCE & GATE STRUCTURES AT 12" INTERVALS VERTICALLY & AT 20" HORIZONTALLY.

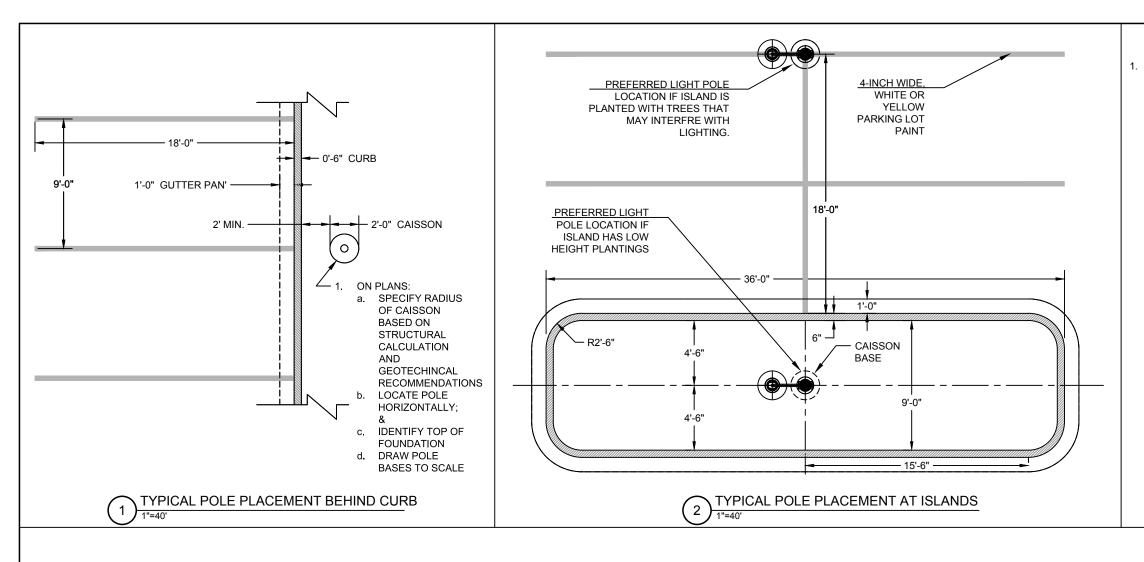
(303) 628-9000

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

SHEET REFERENCE NUMBER: SD-C111C

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CHAIN LINK FENCE ANCHORAGE DETAILS



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NO.	REVISIONS	BY	DATE	j						DENVER, COLORADO 80202 (303) 628-9000	LIGI

1. LIGHTING PLANS SHALL SHOW THE FOLLOWING INFORMATION:

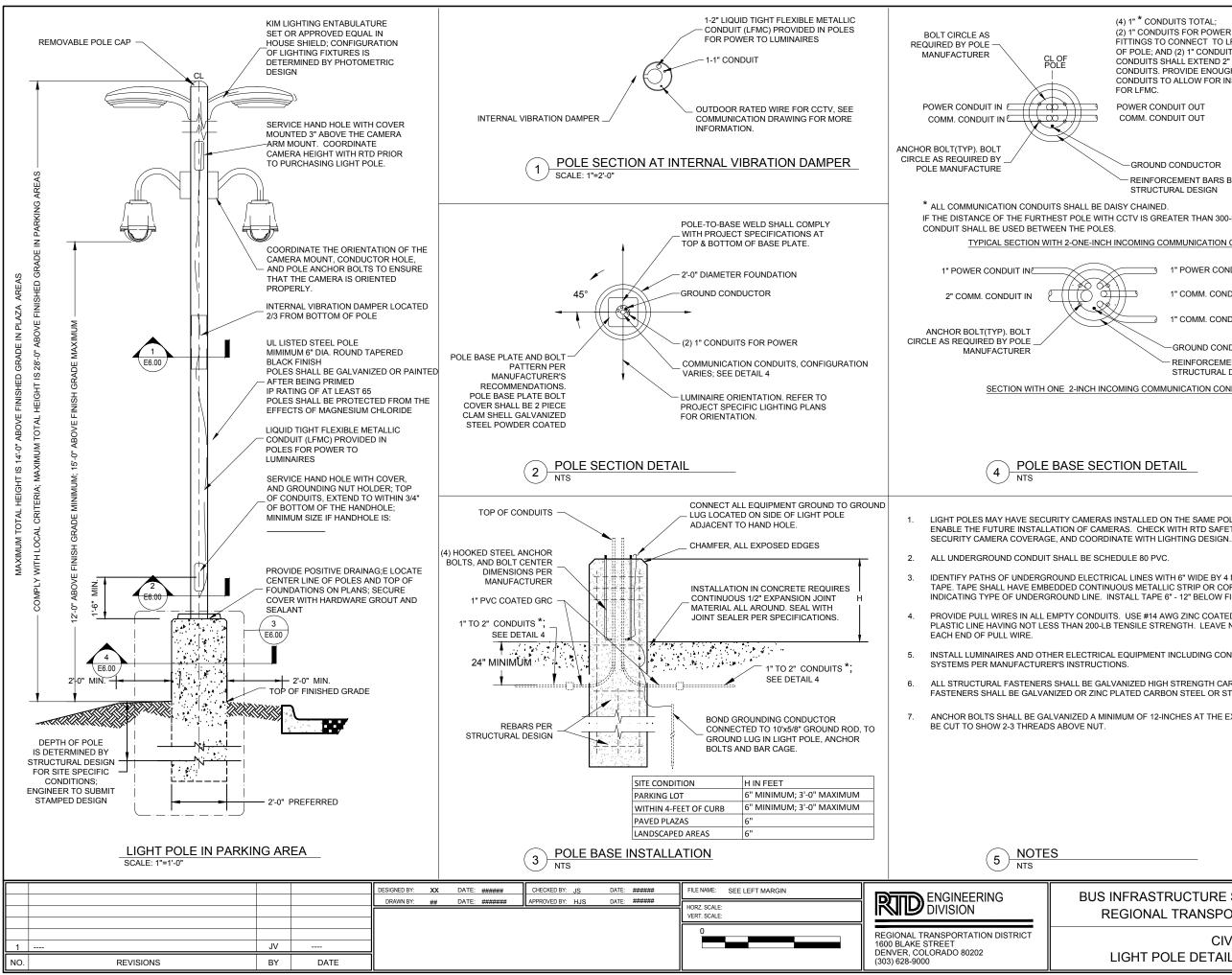
- A. SITE PLAN ILLUSTRATING PROPERTY LINE, CIVIL BASE ITEMS, STRUCTURES, LANDSCAPE TREES, PROPOSED AND EXISTING LIGHTING FIXTURES, SECURITY CAMERAS, AND EMERGENCY TELEPHONES, POWER SOURCE AND ELECTRICAL CONVEYANCE EQUIPMENT AND WIRING.
- B. SITE PLAN ILLUSTRATING REFERENCE AREAS AS DEFINED BY RTD LIGHTING CRITERIA (STATION PLATFORM/TRANSITION PLAZA/PEDESTRIAN ACCESS/SURFACE PARKING/STRUCTURED PARKING/SPECIALTY AREAS).
- C. LUMINAIRE SCHEDULE INDICATING TYPE AND NUMBER OF EACH LUMINAIRE LISTING MANUFACTURER/MODEL NUMBER/LAMP SOURCE/LUMEN OUTPUT AND WATTAGE.
- D. PRODUCT CUT SHEETS WITH COLOR RENDERING INDEX AND CORRELATED COLOR TEMPERATURE.
- E. ILLUSTRATION OF PROPOSED FIXTURES.
- F. PHOTOMETRIC IN FC VALUES ILLUSTRATED AT AN APPROPRIATE GRID SPACING (10'X10' FOR EXTERIOR?). INCLUDE LIGHTING VALUES AT THE PROPERTY LINE AND LIGHT CONTRIBUTIONS FROM ALL SOURCES (STREET LIGHTS, BUILDINGS, WALL MOUNTED, SIGN ILLUMINATION,...).
- G. PHOTOMETRIC INFORMATION TO SHOW COMPLIANCE TO RTD UNIFORMITY RATIO STANDARDS INCLUDING AVERAGE, AVG/MIN, AND MAX/MIN.
- H. LIGHTING HOURS.
- I. POLE AND FOUNDATION DETAILS/ELEVATIONS (SCALED AND DIMENSIONED).
- J. JURISDICTIONAL REQUIREMENTS AND PROPOSED COMPLIANCE CHART/STATEMENT.



BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

SHEET REFERENCE NUMBER: SD-C112A

CIVIL GHT POLE PLACEMENT AND PLAN REQUIREMENTS



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	(4) 1" * CONDUITS TOTAL; (2) 1" CONDUITS FOR POWER TO LUMINAIRES, PROVIDE FITTINGS TO CONNECT TO LFMC EXTENDED UP LENGTH OF POLE; AND (2) 1" CONDUITS FOR CCTV. CCTV CONDUITS SHALL EXTEND 2" HIGHER THAN POWER CONDUITS. PROVIDE ENOUGH SEPARATION BETWEEN CONDUITS TO ALLOW FOR INSTALLATION OF FITTINGS FOR LFMC.
	POWER CONDUIT OUT COMM. CONDUIT OUT
	GROUND CONDUCTOR REINFORCEMENT BARS BASED ON STRUCTURAL DESIGN
	AISY CHAINED. I CCTV IS GREATER THAN 300-FEET, A TWO-INCH 3.
NE-INCH	INCOMING COMMUNICATION CONDUITS
	1" POWER CONDUIT OUT
	1" COMM. CONDUIT OUT
X	1" COMM. CONDUIT OUT
	-GROUND CONDUCTOR
	REINFORCEMENT BARS BASED ON STRUCTURAL DESIGN
NCH INC	OMING COMMUNICATION CONDUIT

POLE BASE SECTION DETAIL

LIGHT POLES MAY HAVE SECURITY CAMERAS INSTALLED ON THE SAME POLE, OR HAVE WIRING INSTALLED TO ENABLE THE FUTURE INSTALLATION OF CAMERAS. CHECK WITH RTD SAFETY AND SECURITY DEPARTMENT FOR

IDENTIFY PATHS OF UNDERGROUND ELECTRICAL LINES WITH 6" WIDE BY 4 MILS THICK BRIGHT COLORED VINYL TAPE. TAPE SHALL HAVE EMBEDDED CONTINUOUS METALLIC STRIP OR CORE AND HAVE PRINTED LEGEND INDICATING TYPE OF UNDERGROUND LINE. INSTALL TAPE 6" - 12" BELOW FINISHED GRADE.

PROVIDE PULL WIRES IN ALL EMPTY CONDUITS. USE #14 AWG ZINC COATED STEEL OR MONO-FILAMENT PLASTIC LINE HAVING NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE NOT LESS THAN 12" OF SLACK AT

INSTALL LUMINAIRES AND OTHER ELECTRICAL EQUIPMENT INCLUDING CONTROLS AND COMMUNICATION

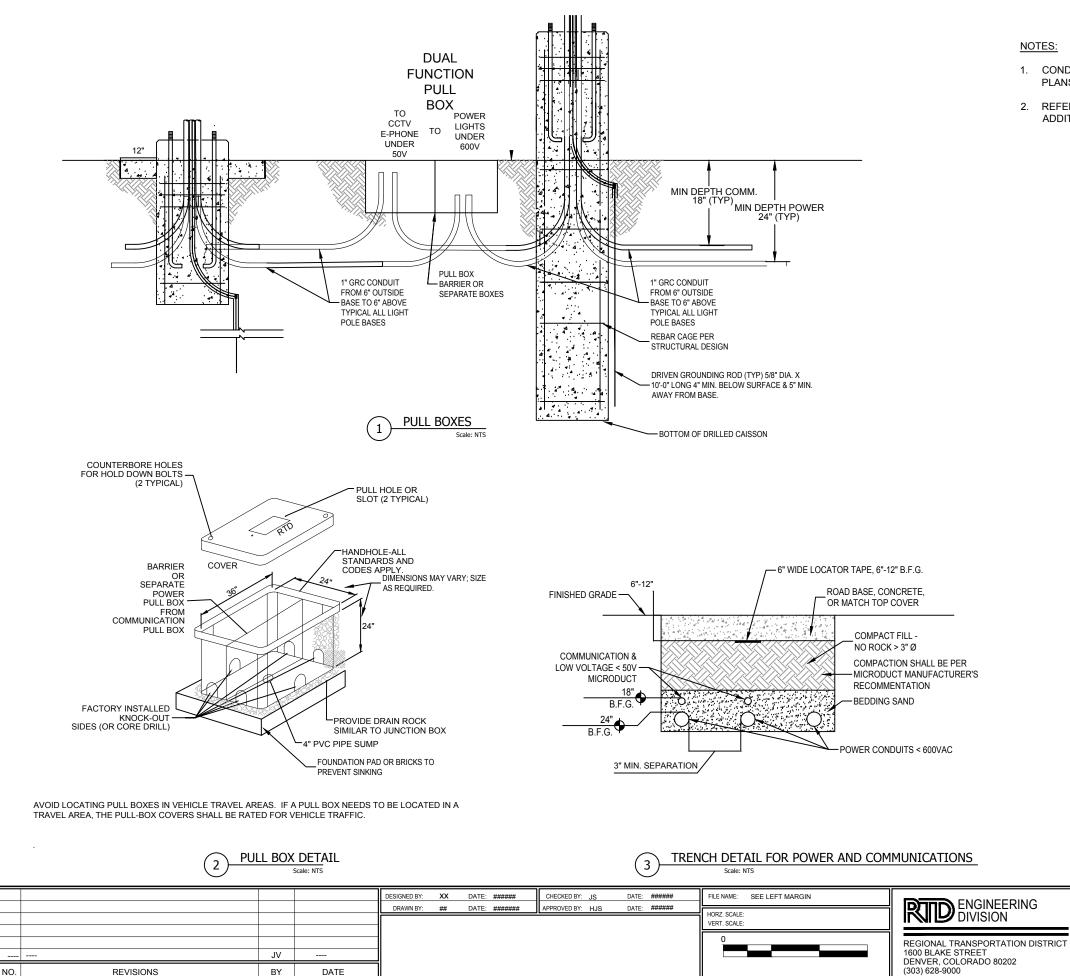
ALL STRUCTURAL FASTENERS SHALL BE GALVANIZED HIGH STRENGTH CARBON STEEL. ALL NON-STRUCTURAL FASTENERS SHALL BE GALVANIZED OR ZINC PLATED CARBON STEEL OR STAINLESS STEEL

7. ANCHOR BOLTS SHALL BE GALVANIZED A MINIMUM OF 12-INCHES AT THE EXPOSED END. ANCHOR BOLTS SHALL

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

SHEET REFERENCE NUMBER: SD-C112B

CIVIL LIGHT POLE DETAILS AND CONDUITS



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NOTES:

1. PLANS.

2.

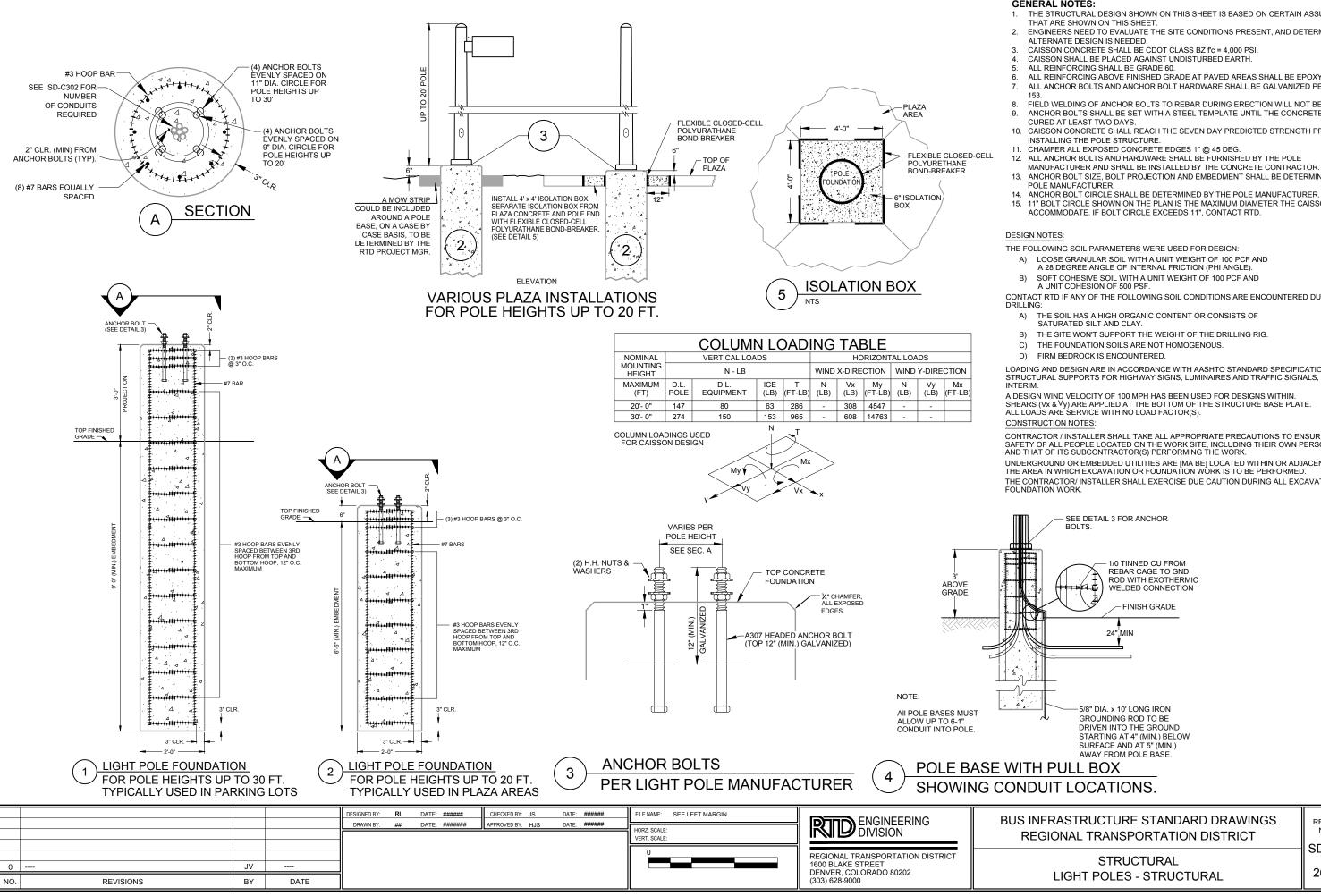
CONDUIT LOCATION SHALL BE SHOWN IN PLAN VIEW ON BOTH CIVIL AND ELECTRICAL

REFER TO THE RTD BUS INFRASTRUCTURE DESIGN GUIDELINES & CRITERIA FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

> **BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT**

SHEET REFERENCE NUMBER: SD-C112C

CIVIL PULL BOXES AND CONDUITS



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GENERAL NOTES:

- THE STRUCTURAL DESIGN SHOWN ON THIS SHEET IS BASED ON CERTAIN ASSUMPTIONS THAT ARE SHOWN ON THIS SHEET.
- ENGINEERS NEED TO EVALUATE THE SITE CONDITIONS PRESENT, AND DETERMINE IF AN
- CAISSON CONCRETE SHALL BE CDOT CLASS BZ fc = 4,000 PSI.
- CAISSON SHALL BE PLACED AGAINST UNDISTURBED EARTH.
- ALL REINFORCING ABOVE FINISHED GRADE AT PAVED AREAS SHALL BE EPOXY COATED. ALL ANCHOR BOLTS AND ANCHOR BOLT HARDWARE SHALL BE GALVANIZED PER ASTM A
- FIELD WELDING OF ANCHOR BOLTS TO REBAR DURING ERECTION WILL NOT BE PERMITTE ANCHOR BOLTS SHALL BE SET WITH A STEEL TEMPLATE UNTIL THE CONCRETE HAS
- CAISSON CONCRETE SHALL REACH THE SEVEN DAY PREDICTED STRENGTH PRIOR TO

- ANCHOR BOLT SIZE, BOLT PROJECTION AND EMBEDMENT SHALL BE DETERMINED BY THE
- ANCHOR BOLT CIRCLE SHALL BE DETERMINED BY THE POLE MANUFACTURER.
- 11" BOLT CIRCLE SHOWN ON THE PLAN IS THE MAXIMUM DIAMETER THE CAISSON CAN ACCOMMODATE. IF BOLT CIRCLE EXCEEDS 11", CONTACT RTD.

THE FOLLOWING SOIL PARAMETERS WERE USED FOR DESIGN

CONTACT RTD IF ANY OF THE FOLLOWING SOIL CONDITIONS ARE ENCOUNTERED DURING

- A) THE SOIL HAS A HIGH ORGANIC CONTENT OR CONSISTS OF
- THE SITE WON'T SUPPORT THE WEIGHT OF THE DRILLING RIG.
- THE FOUNDATION SOILS ARE NOT HOMOGENOUS

LOADING AND DESIGN ARE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2006

A DESIGN WIND VELOCITY OF 100 MPH HAS BEEN USED FOR DESIGNS WITHIN SHEARS (Vx & Vy) ARE APPLIED AT THE BOTTOM OF THE STRUCTURE BASE PLATE. ALL LOADS ARE SERVICE WITH NO LOAD FACTOR(S).

CONTRACTOR / INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING THEIR OWN PERSONNEL AND THAT OF ITS SUBCONTRACTOR(S) PERFORMING THE WORK

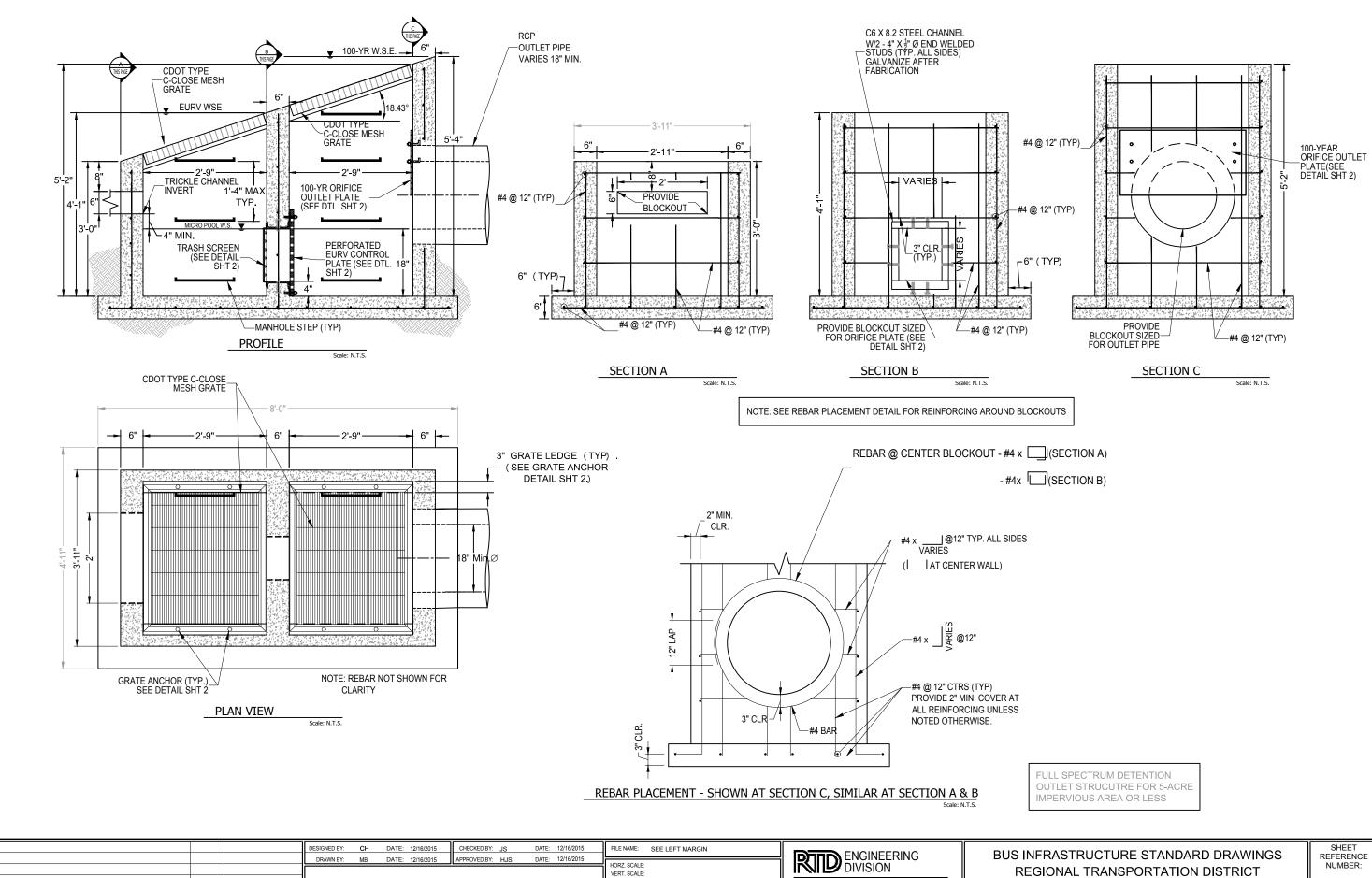
UNDERGROUND OR EMBEDDED UTILITIES ARE [MA BE] LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION OR FOUNDATION WORK IS TO BE PERFORMED. THE CONTRACTOR/ INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION OR

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

SHEET REFERENCE NUMBER:

SD-C112D 26 OF 68

LIGHT POLES - STRUCTURAL



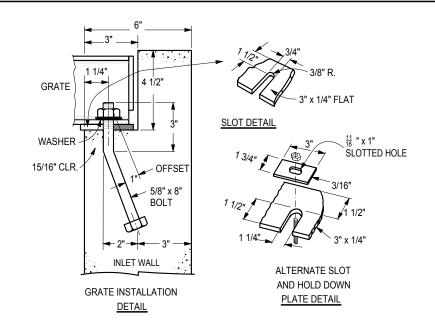
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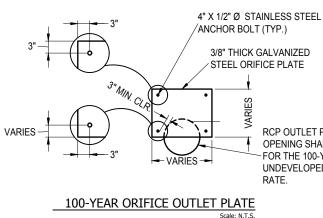
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CIVIL **DETENTION OUTLET STRUCTURE - 1 OF 2**

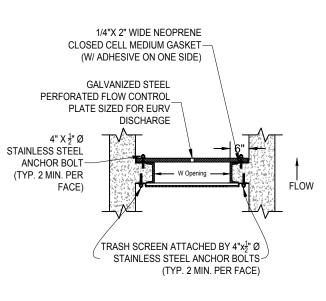
SHEET REFERENCE NUMBER: SD-C114A





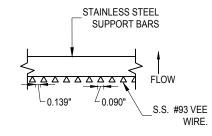
GENERAL NOTES

- 1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
- 2. REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4, AND SHALL HAVE A MINIMUM 2 IN. CLEARANCE. CUT OR BEND AROUND PIPES AS REQUIRED.
- 3. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH CDOT SUBSECTION 712.06.
- 4. MANHOLE STEPS SHALL CONFORM TO AASHTO M 199.
- 5. SEE CDOT STANDARD PLAN M-604-11, FOR REINFORCEMENT AROUND THE PIPE OPENING.
- 6. EURV CONTROL PLATE SHALL BE SIZED PER UDFCD CRITERIA.
- 7. ENGINEER SHALL CONFIRM THAT CLOSE MESH GRATE COVERING THE WATER QUALITY CHAMBER IS ABLE TO PASS THE 100 YEAR EURV FLOW RATE USING A 50% CLOGGING FACTOR.
- 8. TRASH SCREEN AND 100-YEAR ORIFICE PLATE SHALL BE DESIGNED PER UDFCD CRITERIA.



TRASH SCREEN ATTACHMENT DETAIL

(303) 628-9000

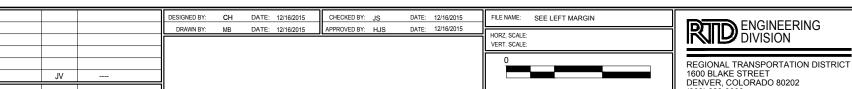


TRASH SCREEN DETAIL

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FOR 5-ACRE IMPERVIOUS AREA OR LESS

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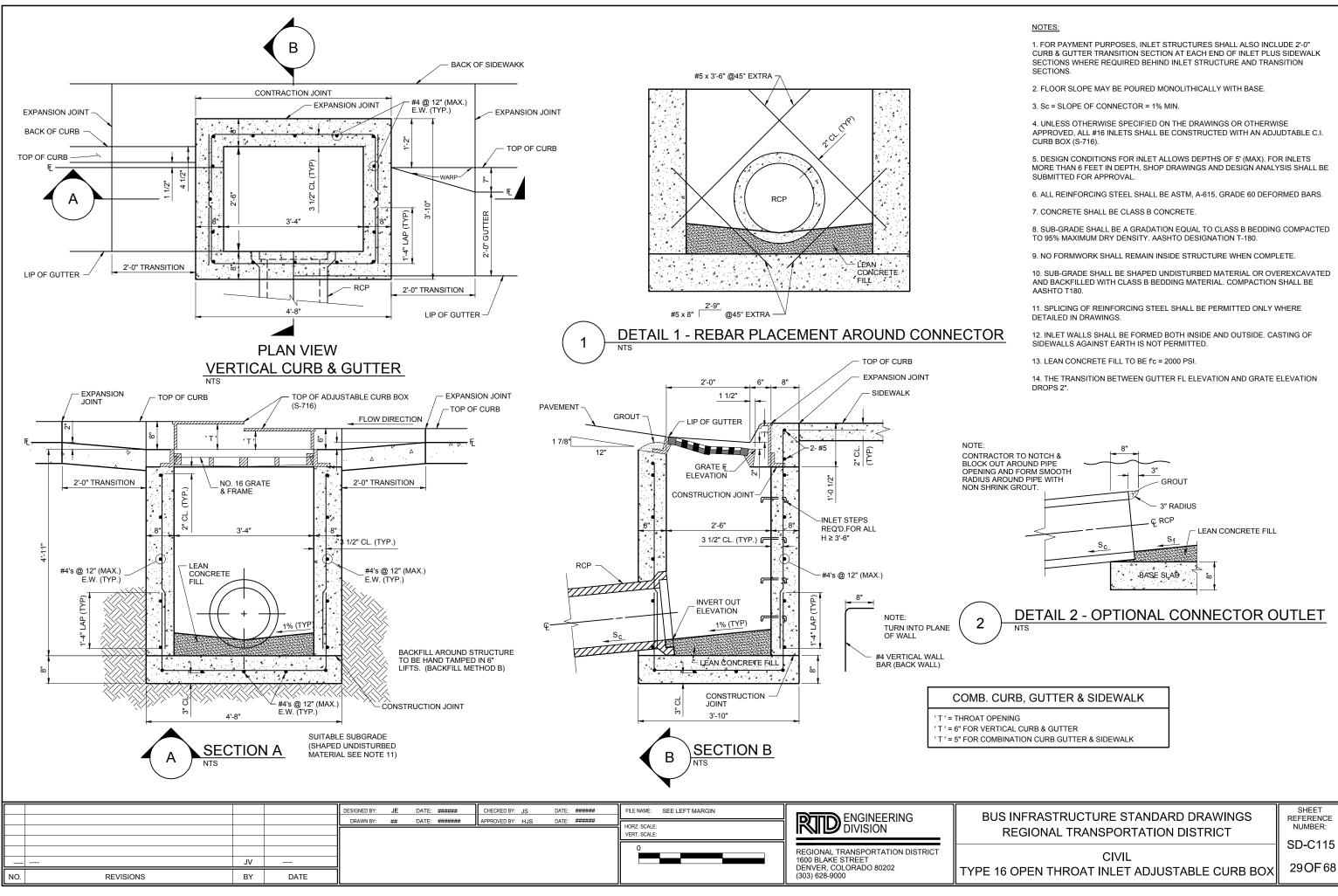
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RCP OUTLET PIPE. FREE OPENING SHALL BE DESIGNED FOR THE 100-YEAR UNDEVELOPED DISCHARGE RATE.

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

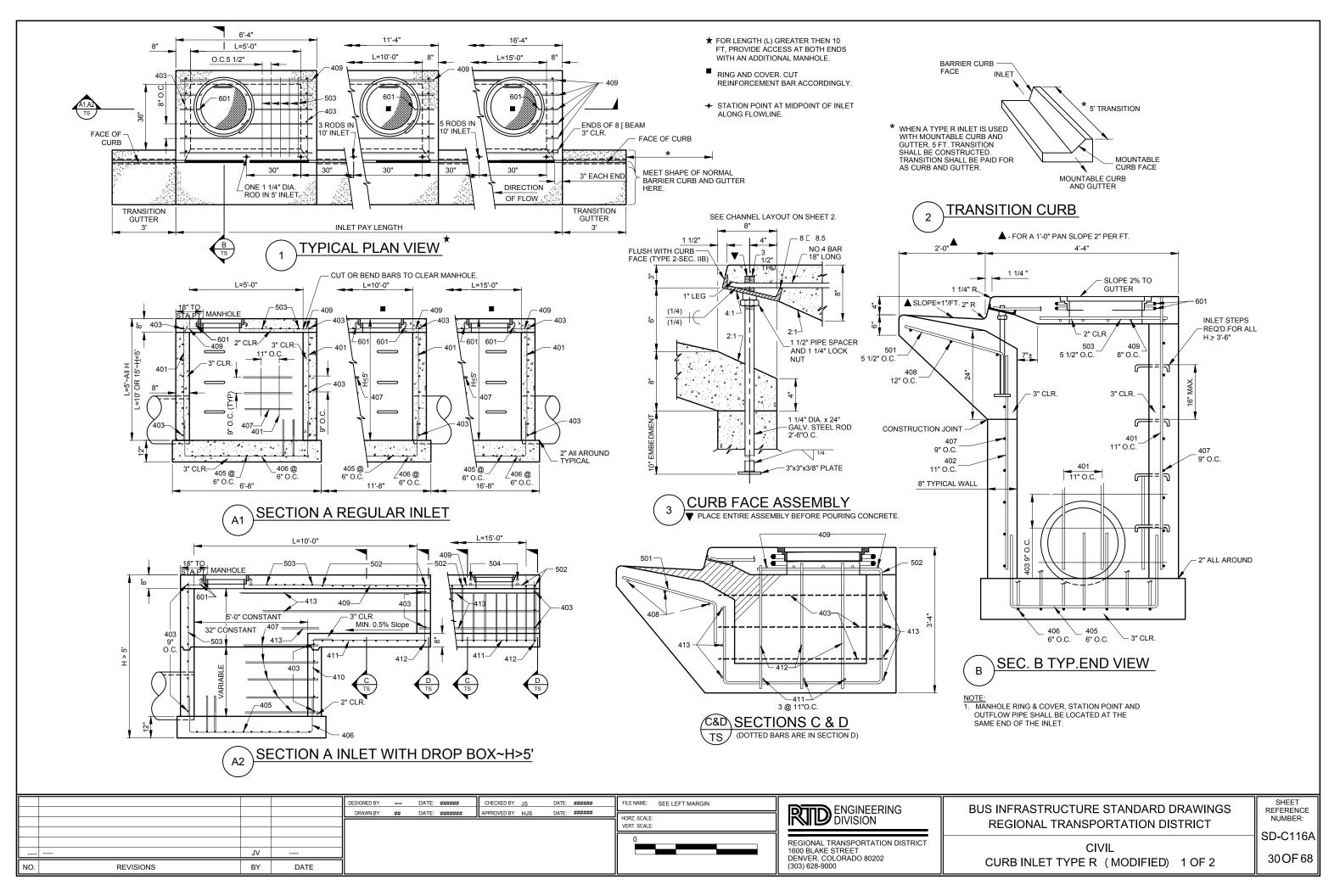
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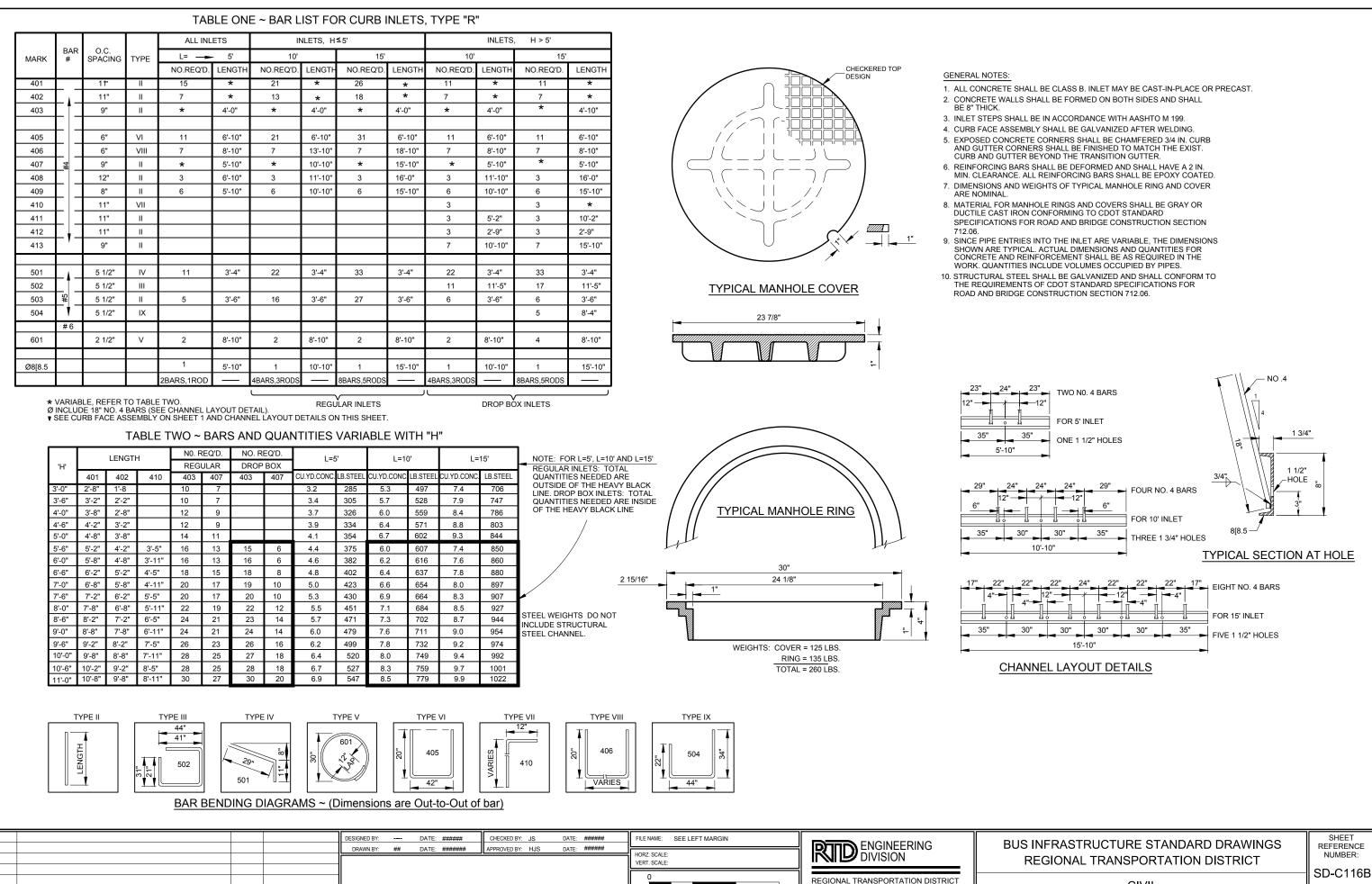
CIVIL **DETENTION OUTLET STRUCTURE - 2 OF 2**



MORE THAN 6 FEET IN DEPTH, SHOP DRAWINGS AND DESIGN ANALYSIS SHALL BE

REFERENCE NUMBER:





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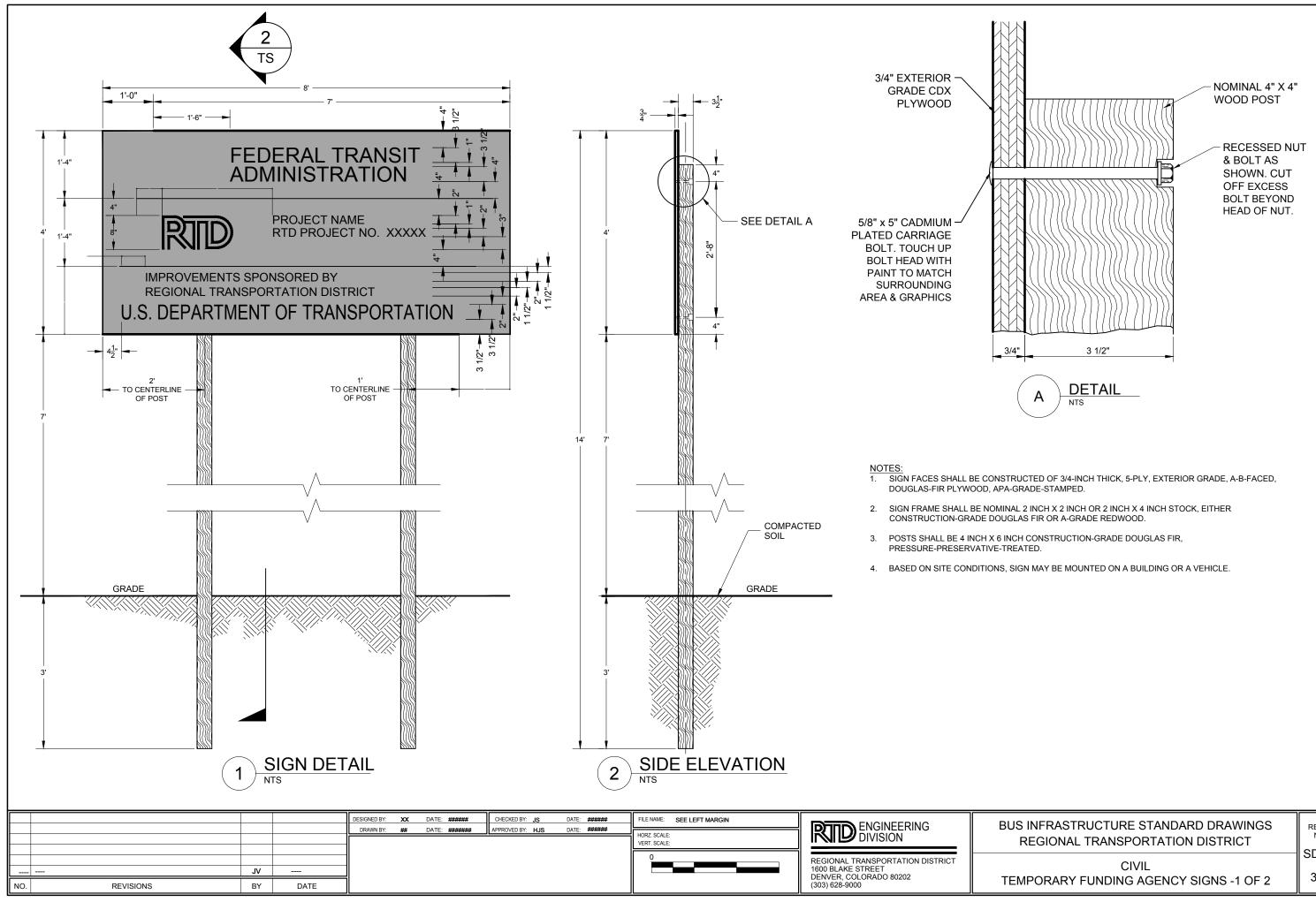
CIVIL CURB INLET TYPE R (MODIFIED) 2 OF 2

SHEET REFERENCE NUMBER:

31 OF 68

1600 BLAKE STREET DENVER, COLORADO 80202

(303) 628-9000



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SHEET REFERENCE NUMBER: SD-C117A



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JV NO. REVISIONS BY	 DATE			REGIONAL TRANSPORTATION DISTRICT 1600 BLAKE STREET DENVER, COLORADO 80202 (303) 628-9000	



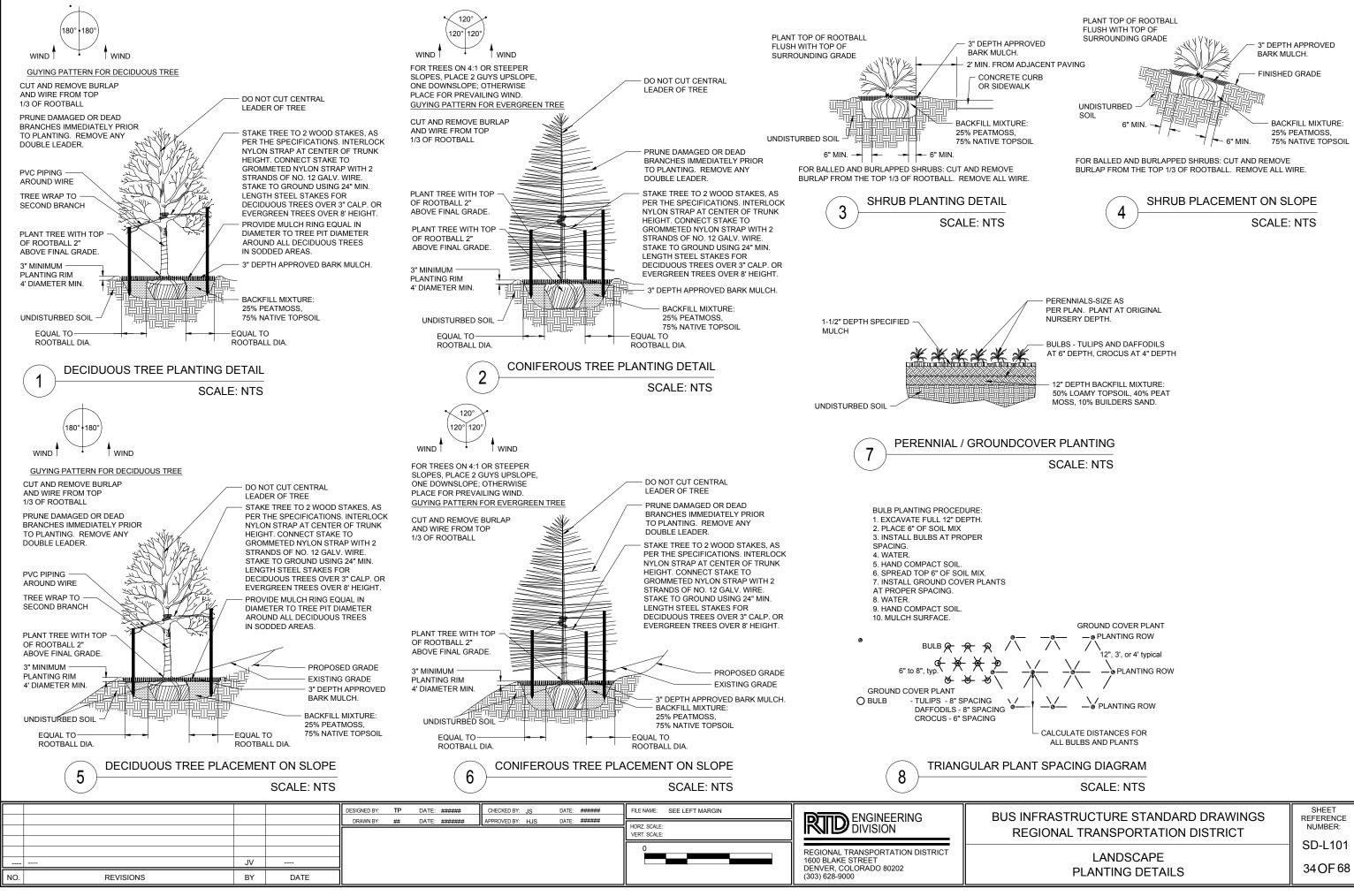
W21-1A MIN; 18.0" across sides 1.9" Radius, 0.8" Border, 0.5" Indent, Black on Orange; American Recover Sign;

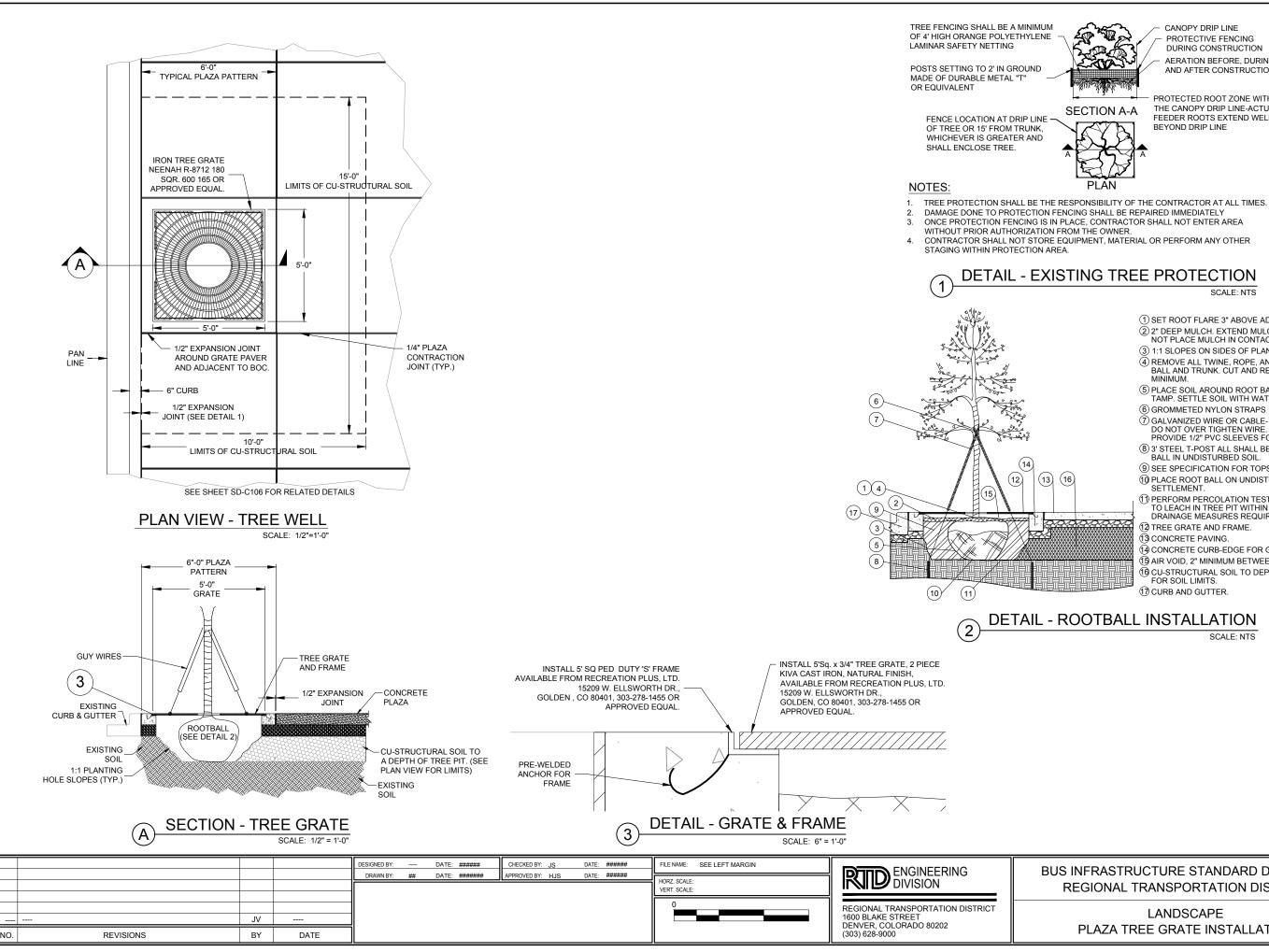
CHECK WITH CDOT FOR UPDATES.

BUS INFRASTRUCTURE STANDARD DRAWINGS **REGIONAL TRANSPORTATION DISTRICT**

SHEET REFERENCE NUMBER: SD-C117B

CIVIL TEMPORARY FUNDING AGENCY SIGN - 2 OF 2





CANOPY DRIP LINE PROTECTIVE FENCING DURING CONSTRUCTION AFRATION BEFORE DURING AND AFTER CONSTRUCTION

PROTECTED ROOT ZONE WITHIN THE CANOPY DRIP LINE-ACTUAL FEEDER ROOTS EXTEND WELL BEYOND DRIP LINE

DETAIL - EXISTING TREE PROTECTION

SCALE: NTS

- (1) SET ROOT FLARE 3" ABOVE ADJACENT GRADE
- 2" DEEP MULCH. EXTEND MULCH TO EDGE OF ROOT BALL. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK.
- (3) 1:1 SLOPES ON SIDES OF PLANTING HOLE.
- REMOVE ALL TWINE, ROPE, AND WIRE FROM ENTIRE ROOT BALL AND TRUNK. CUT AND REMOVE TOP 2/3 OF BURLAP MINIMUM
- (5) PLACE SOIL AROUND ROOT BALL FIRMLY. DO NOT COMPACT OR TAMP. SETTLE SOIL WITH WATER AND FILL AIR POCKETS.
- 6 GROMMETED NYLON STRAPS
- GALVANIZED WIRE OR CABLE- TWIST WIRE TO TIGHTEN. DO NOT OVER TIGHTEN WIRE. LEAVE 1 INCH OF PLAY. PROVIDE 1/2" PVC SLEEVES FOR WIRES.
- (8) 3' STEEL T-POST ALL SHALL BE DRIVEN OUTSIDE ROOT BALL IN UNDISTURBED SOIL.
- (9) SEE SPECIFICATION FOR TOPSOIL REQUIREMENTS.
- (1) PLACE ROOT BALL ON UNDISTURBED SOIL TO PREVENT SETTLEMENT.
- 1 PERFORM PERCOLATION TEST PRIOR TO PLANTING. WATER TO LEACH IN TREE PIT WITHIN 24 HOURS OR ADDITIONAL DRAINAGE MEASURES REQUIRED.
- 12 TREE GRATE AND FRAME.
- ① CONCRETE PAVING.
- ONCRETE CURB-EDGE FOR GRATE.
- 15 AIR VOID, 2" MINIMUM BETWEEN MULCH AND BOTTOM OF GRATE.
- 16 CU-STRUCTURAL SOIL TO DEPTH OF TREE PIT SEE PLAN
- FOR SOIL LIMITS. 1 CURB AND GUTTER.

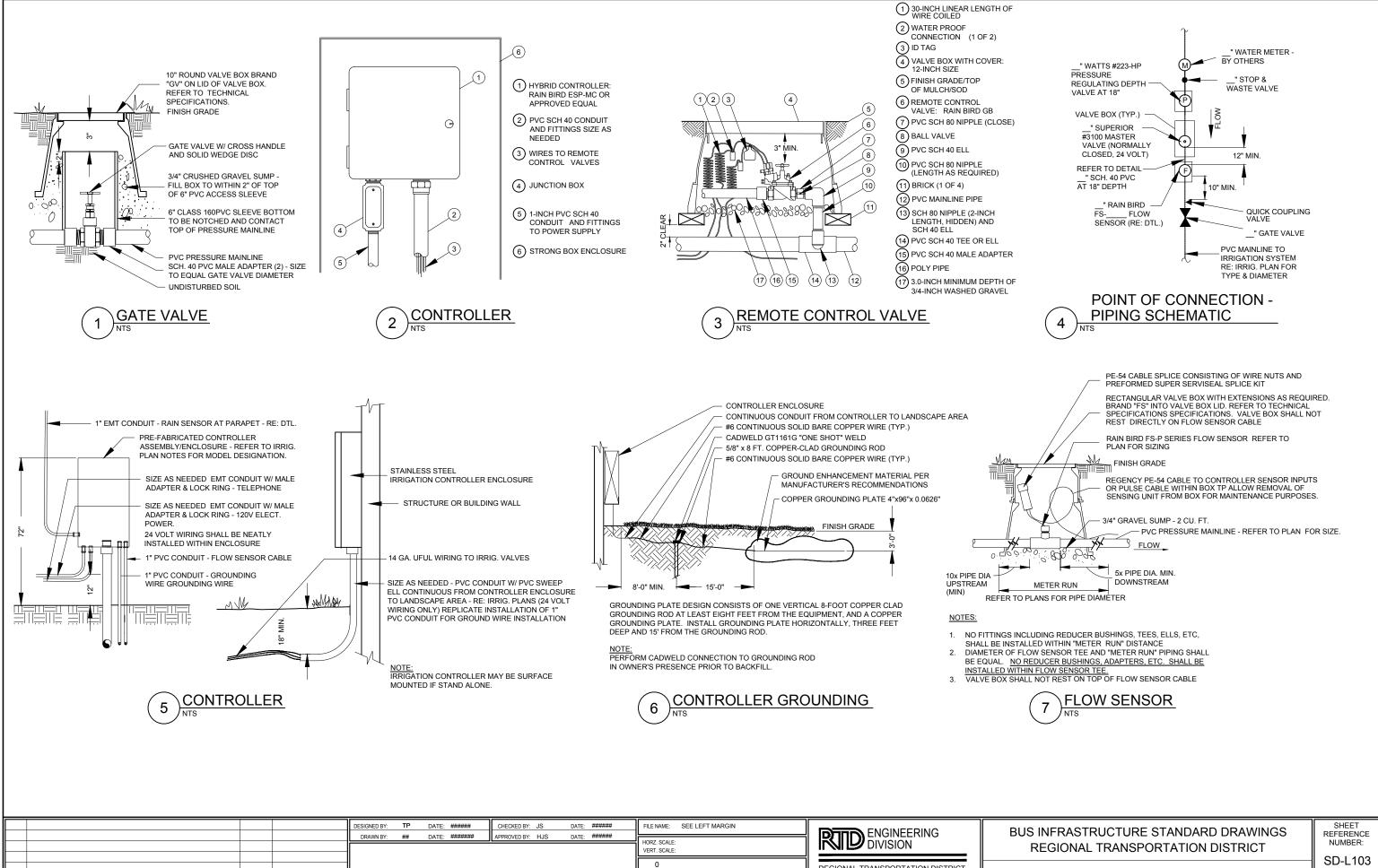
SCALE: NTS

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

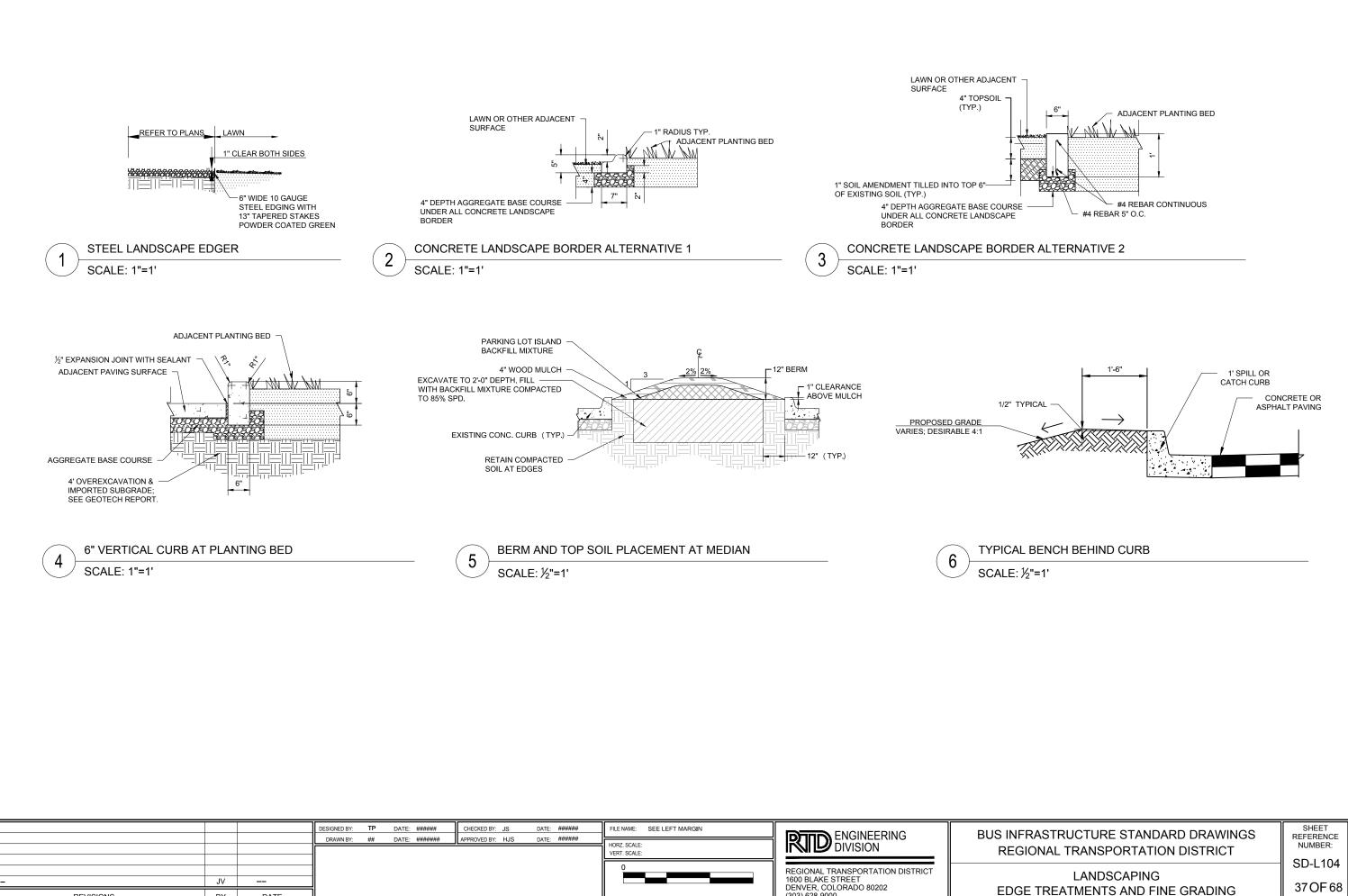
SHEET REFERENCE NUMBER:

SD-L102

LANDSCAPE PLAZA TREE GRATE INSTALLATION



LANDSCAPE **IRRIGATION DETAILS**



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		JV								REGIONAL TRANSPORTATION DISTRICT 1600 BLAKE STREET	
NO.	REVISIONS	BY	DATE							DENVER, COLORADO 80202 (303) 628-9000	

SHELTERS,

- 1. IF SHELTERS OTHERS THAN THOSE SHOWN HEREIN ARE PROPOSED, THE OPERATIONS AND MAINTENANCE RESPONSIBILITIES FOR THEIR UPKEEP NEED TO BE WORKED OUT WITH RTD'S MAINTENANCE OF WAY AND FACILITIES MAINTENANCE GROUPS PRIOR TO CONSTRUCTION.
- 2. LOCAL AUTHORITIES MAY HAVE REGULATIONS THAT GOVERN THE DESIGN AND CONSTRUCTION OF SHELTERS.

DRIVER RELIEF STATIONS

- REFER TO THE RTD COLLECTIVE BARGAINING AGREEMENT.
- 2.
- DRIVER RELIEF STATIONS SHALL BE ADA COMPLIANT. 3.
- 4 FACILITIES.
- 5. BUILDING PERMIT.
- 6. ALL FINISHES TO BE VANDAL RESISTANT.
- EFFICIENT AND RELIABLE MANNER.
- 8. DIFFERENT BASED ON HOW THE INTERNAL SPACE IS PROPOSED TO BE USED.
- LEVEL.
- 10. TANKLESS WATER HEATERS SHALL BE USED.
- 11. BUILDING SHALL HAVE GUTTERS AND SNOW GUARDS.

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		JV									1600 BLAKE STREET DENVER, COLORADO 80202
0.	REVISIONS	BY	DATE								(303) 628-9000

1. DRIVER RELIEF STATIONS MUST BE PROVIDED AT LOCATIONS DETERMINED BY RTD OPERATING DIVISIONS.

DRIVER RELIEF STATIONS WILL BE USED BY RTD PERSONNEL ONLY.

DRIVER RELIEF STATIONS PROVIDE RESTROOM FACILITIES AS A BARE MINIMUM. AT OTHER LOCATIONS, THEY INCORPORATE CONTROLS FOR ON-SITE ELECTRICAL AND TELECOMMUNICATION SYSTEMS. THE NUMBER OF RESTROOMS NEEDED IS BASED ON HOW MANY PERSONNEL ARE EXPECTED TO USE THE

THE DRIVER RELIEF STATIONS MAY BE TREATED AS A BUILDING BY LOCAL AUTHORITIES, AND REQUIRE A

7. DESIGNERS TO PRODUCE DETAILED DRAWINGS SHOWING ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS, TAKING INTO ACCOUNT LOCAL SITE CONDITIONS, PROJECT BUDGET, LOCAL REQUIREMENTS, APPLICABLE LAWS, INDUSTRY CODES, AND STANDARDS, AND RTD DESIGN CRITERIA. THE RESULTING FACILITY MUST BE CAPABLE OF BEING OPERATED AND MAINTAINED IN AN

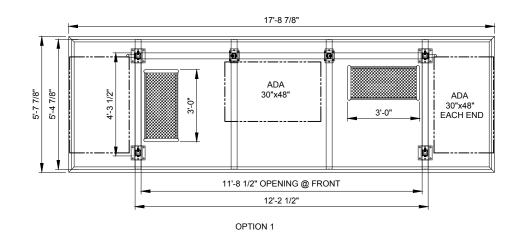
ALL DOOR LOCKING SYSTEMS SHALL BE COMPLIANT WITH THE SYSTEMS BEING USED BY RTD SAFETY AND SECURITY DEPARTMENT, AND RTD FACILITIES MAINTENANCE DEPARTMENT. THESE SYSTEMS MAY BE

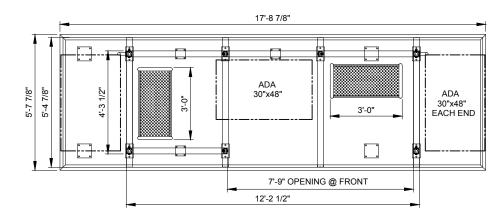
9. THE LIGHTING LEVEL SHOULD BE 15 FOOTCANDLES AVERAGE FOR THE RESTROOM, 20 FOOTCANDLES FOR THE MECHANICAL/ELECTRICAL ROOM. THESE DESIGN VALUES SHALL BE CALCULATED AT FINISH FLOOR

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

SHEET REFERENCE NUMBER: SD-A100

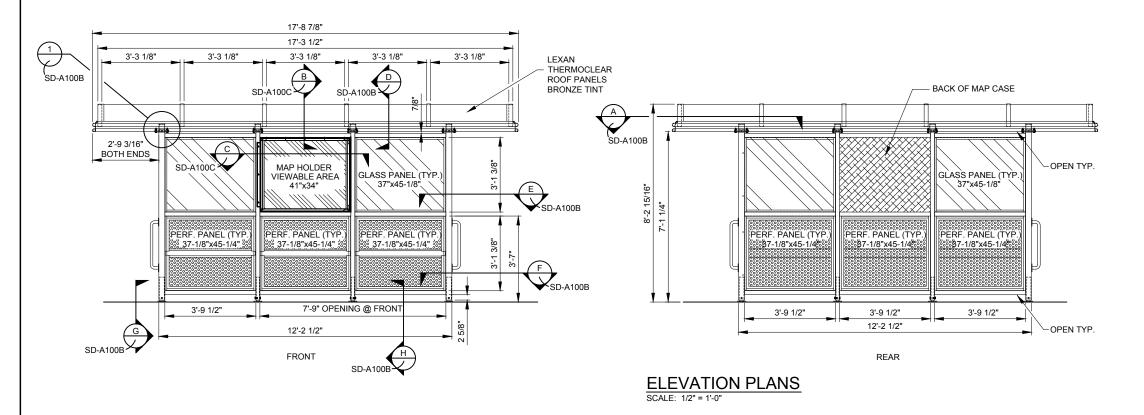
ARCHITECTURE **GENERAL INFORMATION**





OPTION 2 - FRONT ENTRANCE SHIFTED TO RIGHT SIDE

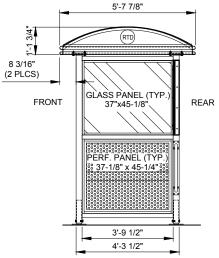
FLOOR PLANS SCALE: 1/2" = 1'-0" NOTE: FLOOR PLAN - OPTION 3 FRONT ENTRANCE SHIFTED TO LEFT SIDE (NOT SHOWN)



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NOTES:

- 1. UNLESS OTHERWISE NOTED, SHELTER TO BE ALL ALUMINUM OF ALLOY 6063-T5.
- 2. ALL HOLES SHALL BE DRILLED OR PUNCHED 3. ALUMINUM WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1. 2-97. ELECTRODES SHALL CONFORM TO AWS/SFA 5.10 ER4043.
- 4. ALL WELDING TO BE DONE BY AWS CERTIFIED WELDERS AT TOLAR MANUF. CO. INC. FACILITY AT 258 MARIAH CIRCLE, CORONA, CA 92879 UNDER THE SUPERVISION OF THE RECORD DESIGN ENGINEER. 5. SHELTER TO BE ANCHORED WITH STAINLESS STEEL HILTI, 1/2" X 4 1/2"
- 6. SCREEN TO BE ALL ALUMINUM PERFORATED METAL 1/8 THK, 1/4 DIA. HOLES ON 3/8" CENTERS
- 7. ALL GLAZING TO BE 3/8" CLEAR TEMPERED SAFETY GLASS
- 8. ALL FASTENERS TO BE STAINLESS STEEL
- 9. SHELTER COMPLIES WITH ALL CONSTRUCTION STANDARDS OF DENVER CO.. SHELTER COMPLIES WITH ADA HANDICAP REQUIREMENTS.
- 10. SHELTER STD. COLOR SHALL BE RAL 6008 FIR GREEN.

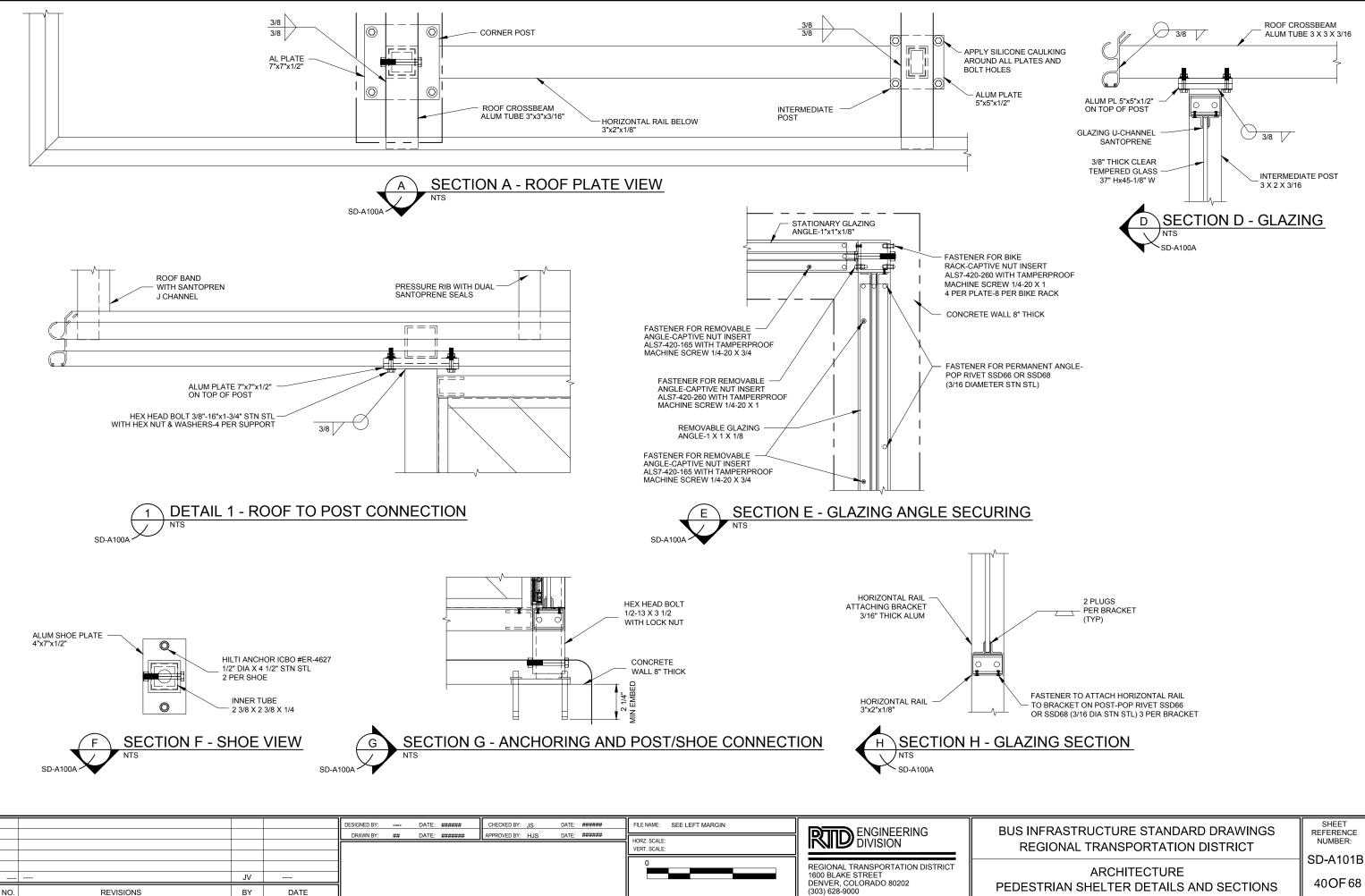


SIDE

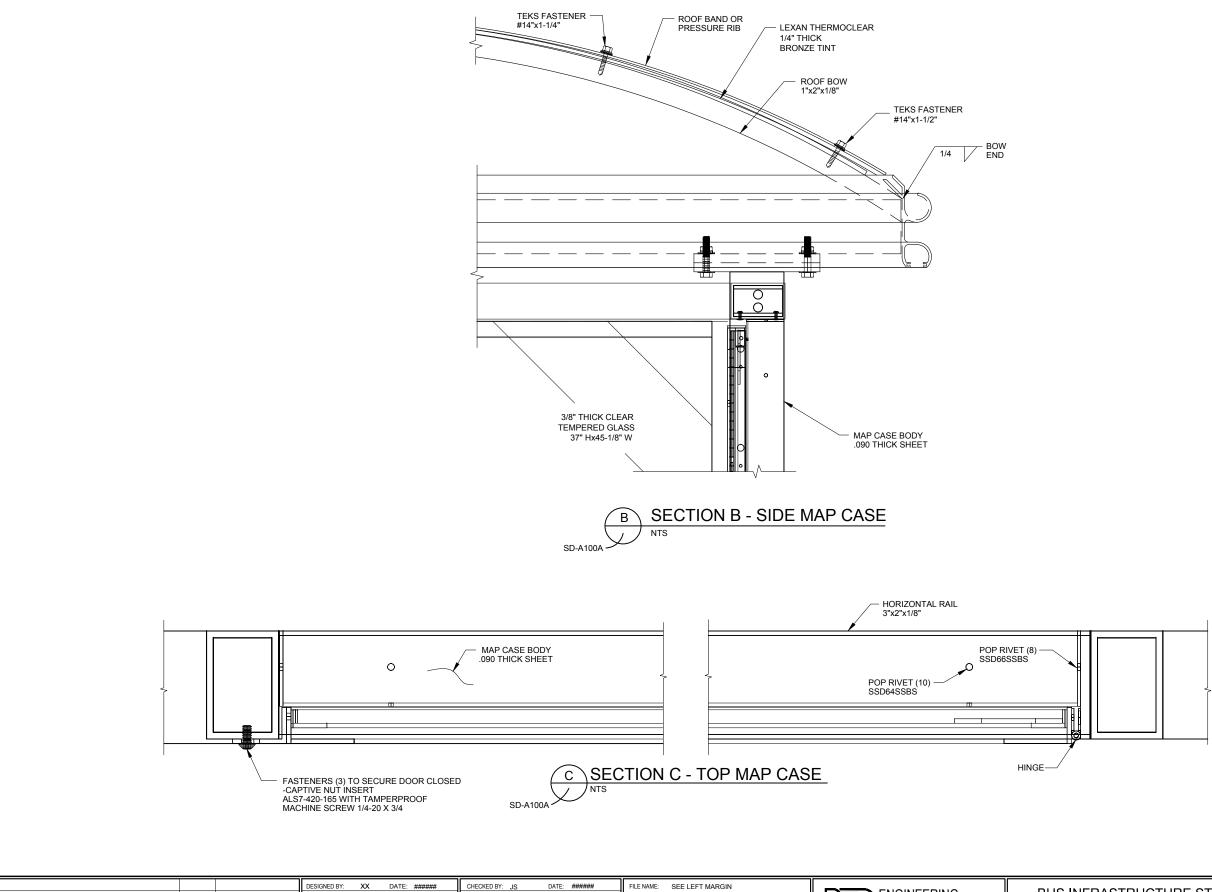
BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

SHEET REFERENCE NUMBER: SD-A101A





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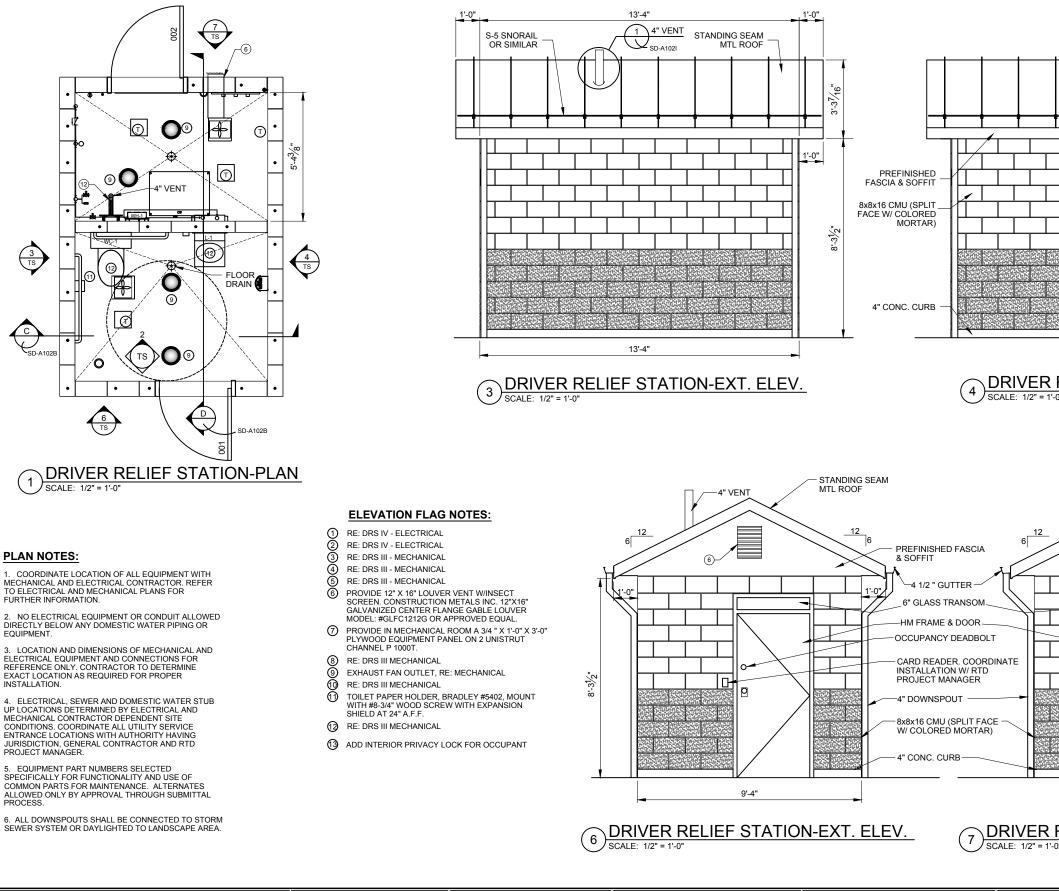


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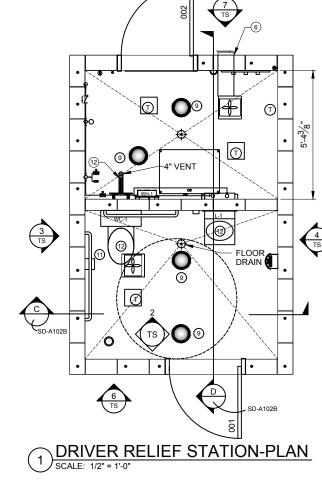
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REVISIONS BY DATE]		DENVER, COLORADO 80202 (303) 628-9000	

ARCHITECTURE PEDESTRIAN SHELTER MAP CASE DETAILS

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT SHEET REFERENCE NUMBER: SD-A101C 41OF 68



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####									REGIONAL TRANSPORTATION DISTRICT 1600 BLAKE STREET	
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PLAN NOTES:

1. COORDINATE LOCATION OF ALL EQUIPMENT WITH MECHANICAL AND ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR FURTHER INFORMATION.

2. NO ELECTRICAL EQUIPMENT OR CONDUIT ALLOWED DIRECTLY BELOW ANY DOMESTIC WATER PIPING OR EQUIPMENT

ELECTRICAL EQUIPMENT AND CONNECTIONS FOR REFERENCE ONLY. CONTRACTOR TO DETERMINE EXACT LOCATION AS REQUIRED FOR PROPER INSTALLATION.

4. ELECTRICAL, SEWER AND DOMESTIC WATER STUB UP LOCATIONS DETERMINED BY ELECTRICAL AND MECHANICAL CONTRACTOR DEPENDENT SITE CONDITIONS. COORDINATE ALL UTILITY SERVICE ENTRANCE LOCATIONS WITH AUTHORITY HAVING JURISDICTION, GENERAL CONTRACTOR AND RTD PROJECT MANAGER.

COMMON PARTS FOR MAINTENANCE. ALTERNATES ALLOWED ONLY BY APPROVAL THROUGH SUBMITTAL PROCESS

SEWER SYSTEM OR DAYLIGHTED TO LANDSCAPE AREA.

ARCHITECTURAL DRS TYPE II PLAN AND ELEVATIONS

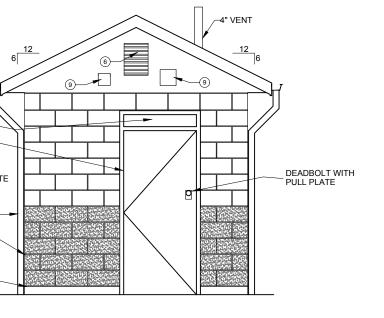
US INFRASTRUCTURE STANDARD DRAWINGS **REGIONAL TRANSPORTATION DISTRICT**

REFERENCE NUMBER: SD-A102A

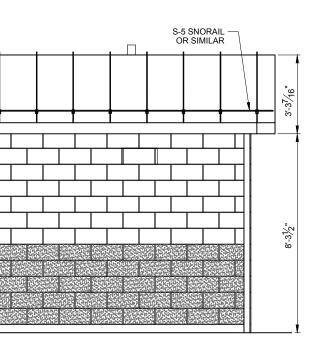
42 OF 68

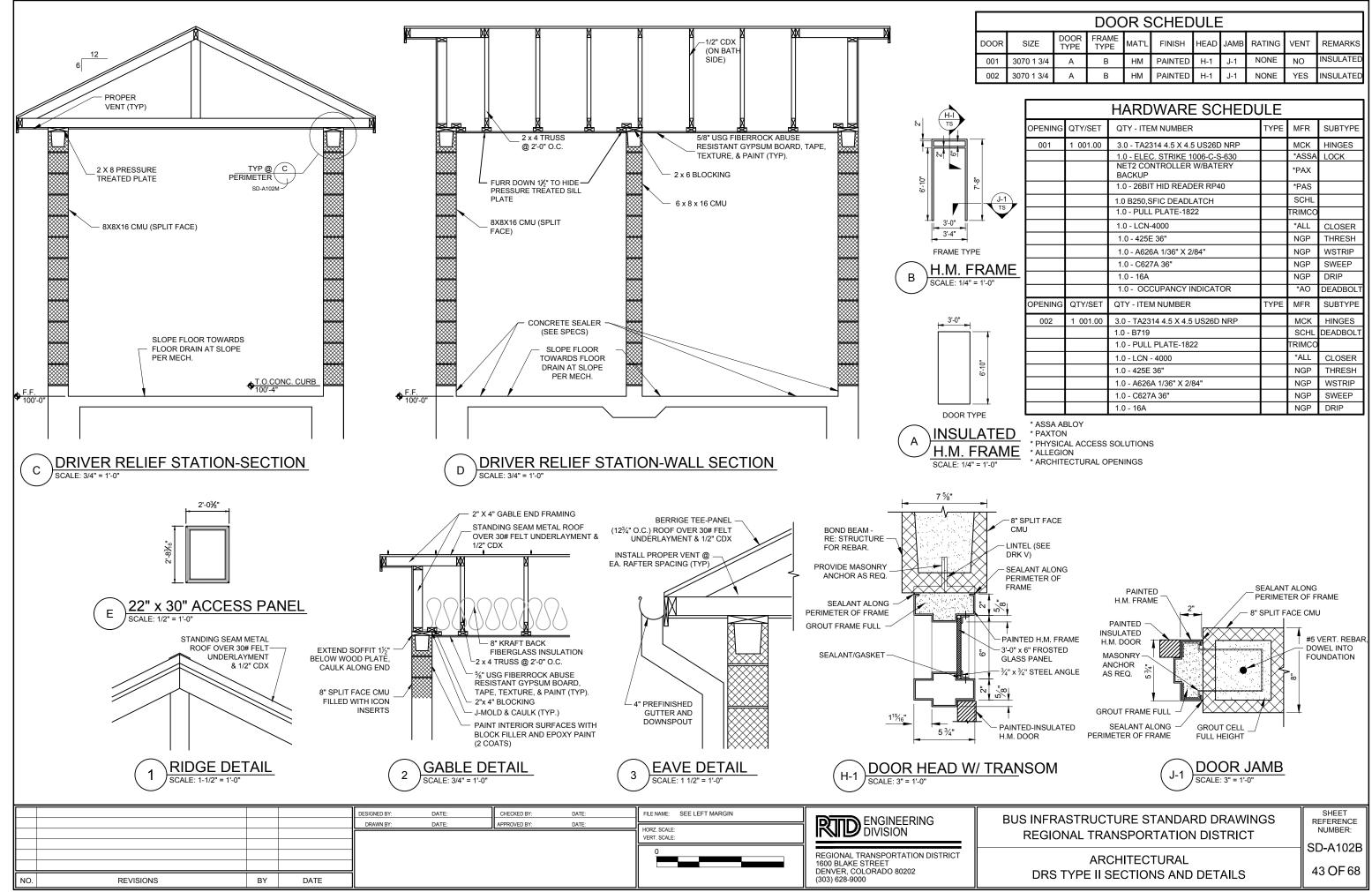
SHEET

DRIVER RELIEF STATION-EXT. ELEV.



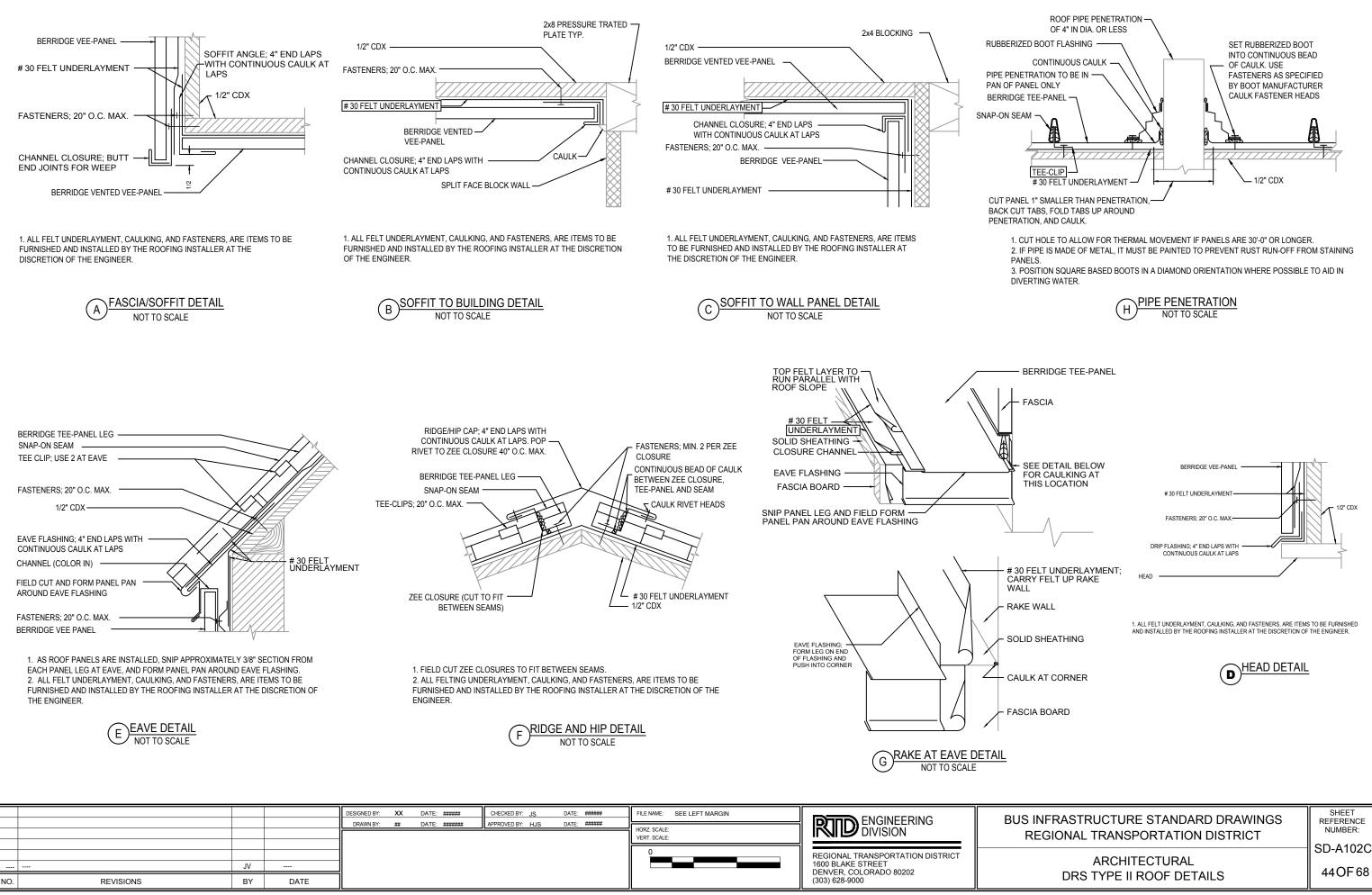


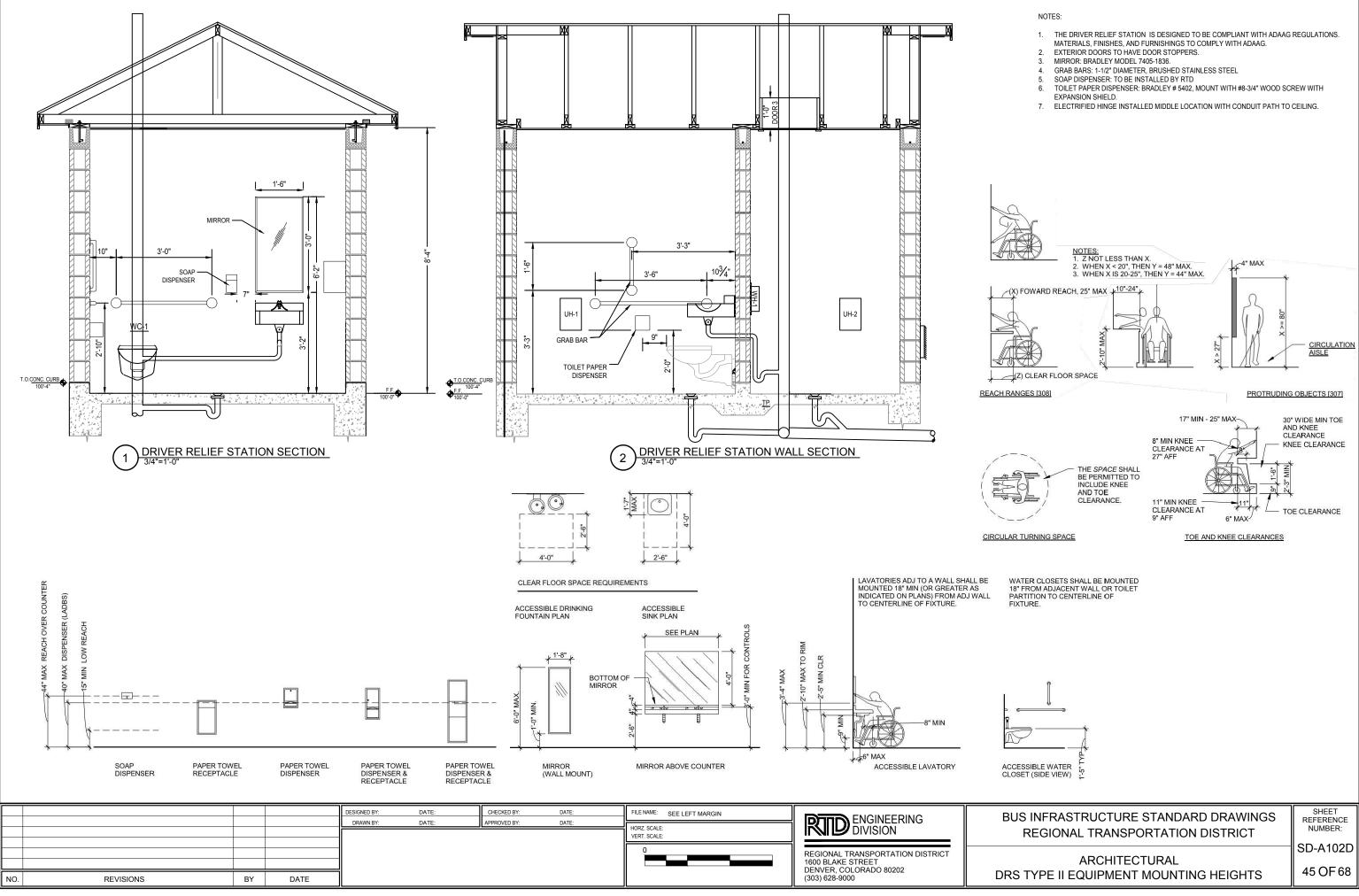




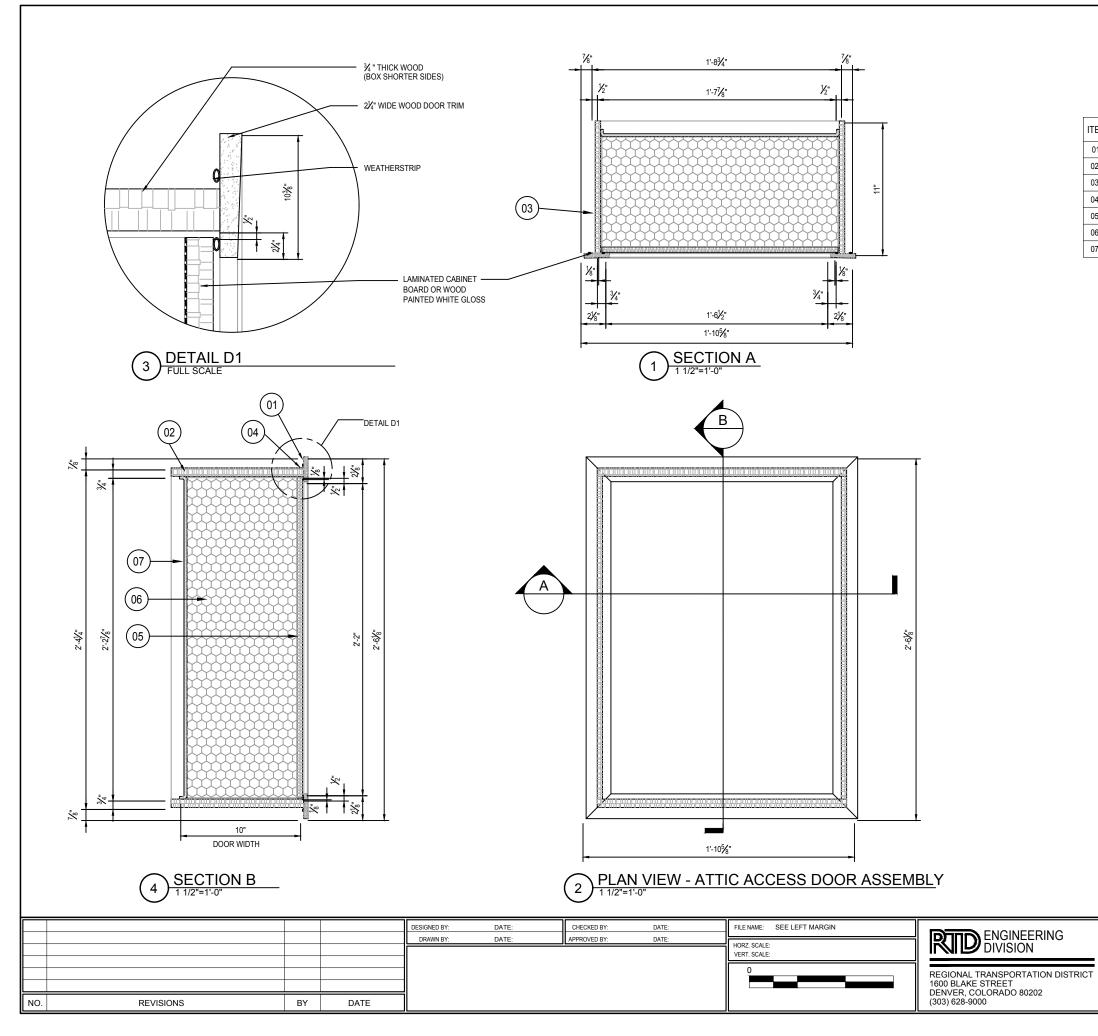
DOOR SCHEDULE									
						-			
SIZE	DOOR TYPE	FRAME TYPE	MAT'L	FINISH	HEAD	JAMB	RATING	VENT	REMARKS
3070 1 3/4	А	В	HM	PAINTED	H-1	J-1	NONE	NO	INSULATED
3070 1 3/4	А	В	HM	PAINTED	H-1	J-1	NONE	YES	INSULATED

		HARDWARE SCHEDU	JLE		
OPENING	QTY/SET	QTY - ITEM NUMBER	TYPE	MFR	SUBTYPE
001	1 001.00	3.0 - TA2314 4.5 X 4.5 US26D NRP		MCK	HINGES
		1.0 - ELEC. STRIKE 1006-C-S-630		*ASSA	LOCK
		NET2 CONTROLLER W/BATERY BACKUP		*PAX	
		1.0 - 26BIT HID READER RP40		*PAS	
		1.0 B250,SFIC DEADLATCH		SCHL	
		1.0 - PULL PLATE-1822		TRIMCO	
		1.0 - LCN-4000		*ALL	CLOSER
		1.0 - 425E 36"		NGP	THRESH
		1.0 - A626A 1/36" X 2/84"		NGP	WSTRIP
		1.0 - C627A 36"		NGP	SWEEP
		1.0 - 16A		NGP	DRIP
		1.0 - OCCUPANCY INDICATOR		*AO	DEADBOLT
OPENING	QTY/SET	QTY - ITEM NUMBER	TYPE	MFR	SUBTYPE
002	1 001.00	3.0 - TA2314 4.5 X 4.5 US26D NRP		MCK	HINGES
		1.0 - B719		SCHL	DEADBOLT
		1.0 - PULL PLATE-1822		TRIMCO	
		1.0 - LCN - 4000		*ALL	CLOSER
		1.0 - 425E 36"		NGP	THRESH
		1.0 - A626A 1/36" X 2/84"		NGP	WSTRIP
		1.0 - C627A 36"		NGP	SWEEP
		1.0 - 16A		NGP	DRIP





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ITEM	
01	56mm WI
02	19mm TH
03	12mm TH
04	WEATHE
05	LAMINAT
06	250mm T
07	SEALING

E

DESCRIPTION

IDE WOODEN DOOR TRIM ASSEMBLY

THICK WOOD (BOX SHORTER SIDES)

HICK WOOD (BOX LONGER SIDES)

IER STRIP

ATED CABINET BOARD OR WOOD PAINTED WHITE GLOSS

THK EXPANDED POLYSTYRENE

07 SEALING GASKET- 6mm THK RUBBER PIPE/DUCT INSULATION

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT SHEET REFERENCE NUMBER: SD-A102E

ARCHITECTURAL DRS ATTIC DOOR

GENERAL NOTES:

1. DIMENSIONS FOR HEATING AND VENTILATION EQUIPMENT SHOWN ON ARCHITECTURAL DRAWINGS. EXACT LOCATIONS DETERMINED BY CONTRACTOR DEPENDING ON SITE CONDITIONS.

2. ALL HVAC INSTALLATION SHALL FOLLOW ASHRAE GUIDELINES, MEET ALL LOCAL AND AHJ STANDARDS WHICH MAY APPLY. ADDITIONAL STANDARDS, REFERENCES, AND REGULATORY REQUIREMENTS SHALL BE FOLLOWED AND INCLUDE, BUT NOT LIMITED TO, AMCA, ASME, SMACNA, IBC AND IMC.

3. ALL WORKMANSHIP SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE COMMERCIAL PRACTICES.

4. SOUND OR VIBRATION SHOWN TO BE UNACCEPTABLE BY OWNER SHALL BE CORRECTED BY CONTRACTOR BEFORE WORK IS CONSIDERED COMPLETE

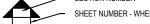
5. COORDINATE WORK WITH OTHER TRADES PRIOR TO ROUGH IN. VERIFY ELECTRICAL NEEDS AND PROVIDE ELECTRICAL REQUIREMENTS TO ELECTRICAL CONTRACTOR PRIOR TO PURCHASE OF MATERIAL. VERIFY ALL WALL, CEILING OR ROOF PENETRATIONS WITH GENERAL CONTRACTOR PRIOR TO ROUGH IN. FOLLOW MANUFACTURER'S RECOMMENDATIONS AND ALL EQUIPMENT INSTALLATION REQUIREMENTS.

6. VERIFY AND DEMONSTRATE PROPER EQUIPMENT OPERATION AND PROPER TEMPERATURE CONTROL WITH TEST PROCEDURE PROVIDED BY CONTRACTOR AND APPROVED BY OWNER. UNLESS OTHERWISE SPECIFIED, MECHANICAL ROOM TEMPERATURE RANGE SHALL BE WITHIN 45 TO 100 DEGREES FAHRENHEIT, AND RESTROOM TEMPERATURE RANGE SHALL BE WITH IN 60 TO 100 DEGREES FAHRENHEIT.

7. DUCT SIZE, REGISTER SIZE, FACE VELOCITY AND OTHER DESIGN PARAMETERS ARE GUIDELINES FOR PROPER OPERATION. VARIATIONS ON EQUIPMENT SIZES OR TYPES, MANUFACTURER, DUCT SIZES, NET FREE AIR MOVEMENT AND OTHER SUCH VARIABLES ARE ALLOWED BY FOLLOWING THE PROPER SUBMITTAL AND SUBSTITUTION APPROVAL PROCESS FOUND IN THE TECHNICAL SPECIFICATIONS. EQUIVALENT PARAMETERS AND CHARACTERISTICS MUST BE SHOWN ALONG WITH REASONING AND JUSTIFICATION FOR CHANGE

MECHANICAL LEGEND

ABBR.	SYMBOL	DESCRIPTION
	T	THERMOSTAT
		EXHAUST OR RETURN DUCT UP CROSS SECTION
		SUPPLY DUCT UP CROSS SECTION
	X	SUPPLY DUCT DOWN CROSS SECTION
		EXHAUST OR RETURN DUCT DOWN CROSS SECTION
		LOUVER, REGISTER OR GRILLE
	human	LOUVER, REGISTER OR GRILLE
	-	AIRFLOW SUPPLY
		AIRFLOW EXHAUST OR RETURN
	UH	FAN FORCED UNIT HEATER SEPARATE THERMOSTAT
	-	EXHAUST FAN
		NOT USED
	sec	TION NUMBER



SHEET NUMBER - WHERE SECTION IS SHOWN

(NOT ALL SYMBOLS SHOWN ARE USED ON THESE DRAWINGS)

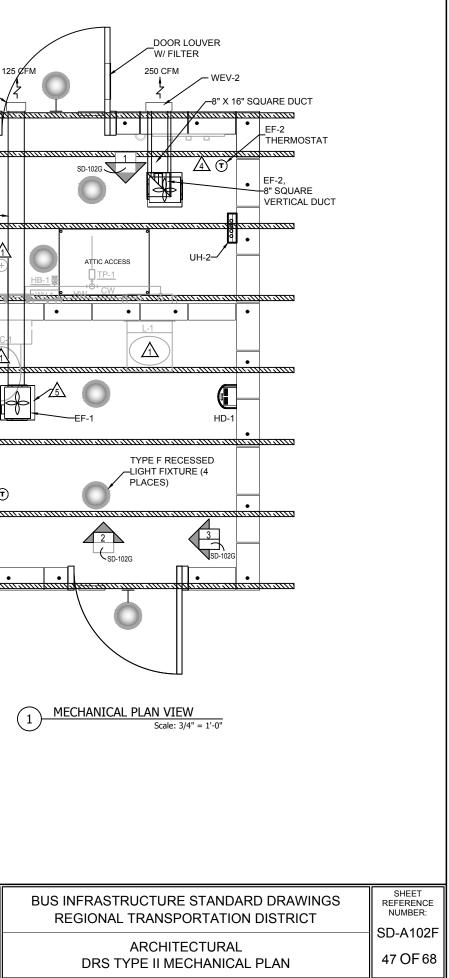
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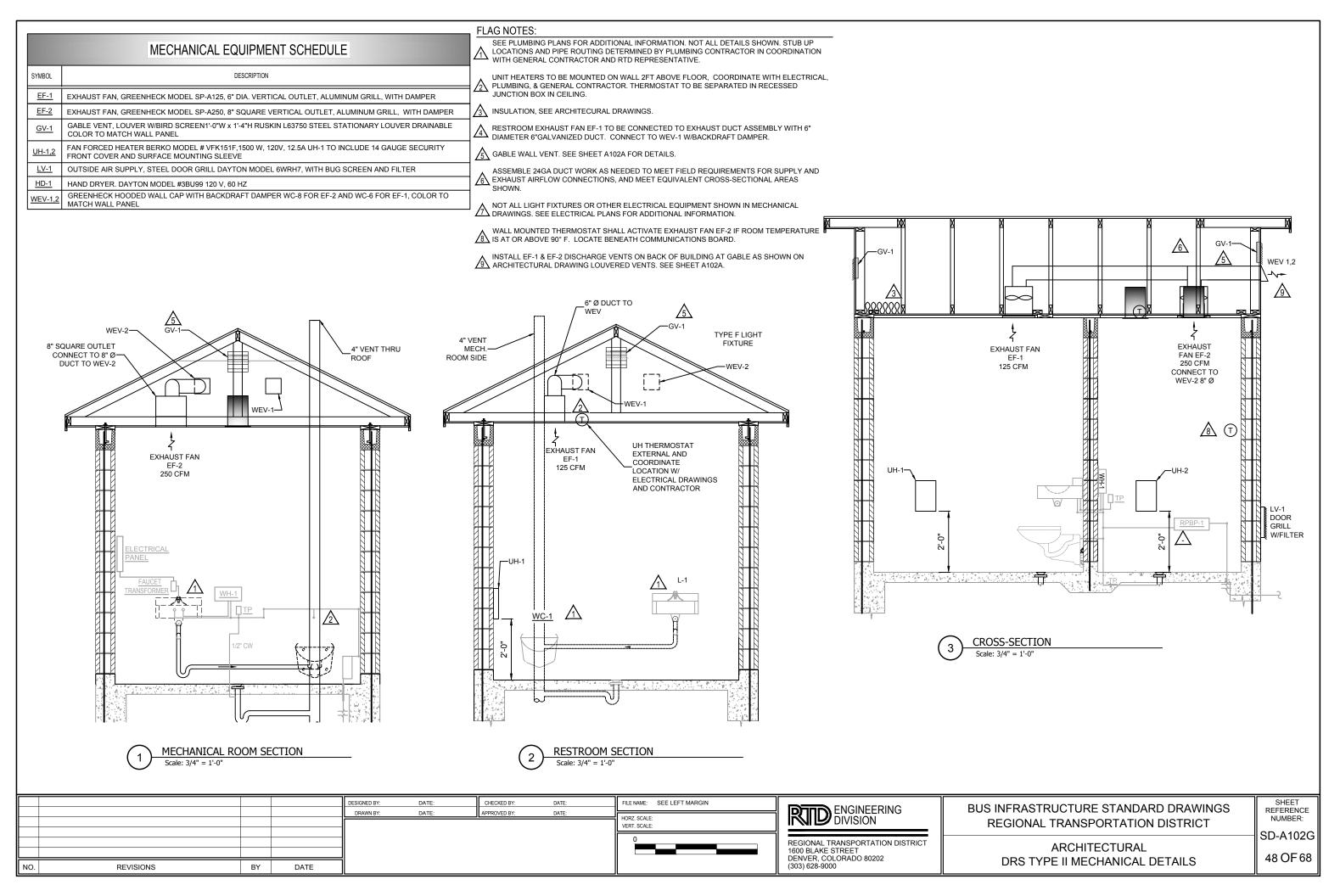
FLAG NOTES:

- PLUMBING EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION. NOT ALL DETAILS SHOWN. COORDINATE WORK WITH GENERAL ⚠ CONTRACTOR AND RTD REPRESENTATIVE.
- UNIT HEATER THERMOSTATS TO BE FIELD INSTALLED WITHIN RECESSED JUNCTION BOX PER ELECTRICAL DRAWINGS. COORDINATE LOCATION AND WIRING WITH ELECTRICAL $\underline{2}$ CONTRACTOR. USE SPACERS TO PROVIDE AIR GAP BETWEEN COVER PLATE AND JUNCTION BOX. SET UH-1 TO 60° F. SET UH-2 TO TURN ON IF ROOM TEMPERATURE FALLS BELOW 40° F.
- ∕₃∖ NOT USED.
- LOCATE WALL MOUNTED THERMOSTAT FOR EF-2 60" A.F.F. NEAR I.T. TELCO BOARD. SET 4 THERMOSTAT TO 90°F AND VERIFY EXHAUST FAN IS CAPABLE OF USING OUTSIDE AIR TO KEEP I.T. EQUIPMENT UNDER 104°F.
- RESTROOM EXHAUST FAN TO BE OPERATED BY OCCUPANCY SENSOR OC-1. ⊿
- ASSEMBLE 24GA DUCT WORK AS NEEDED TO MEET FIELD REQUIREMENTS FOR EXHAUST ⚠ AIRFLOW CONNECTIONS, AND MEET EQUIVALENT CROSS-SECTIONAL AREAS SHOWN.

1

WEV-1

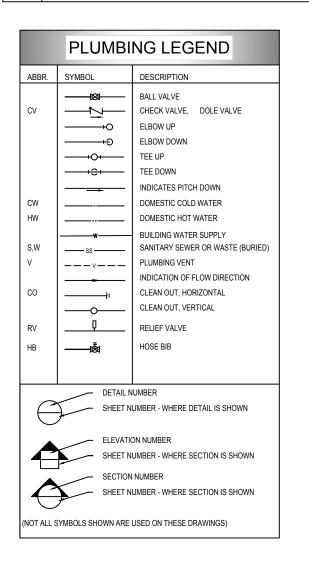




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PLUMBING EQUIPMENT SCHEDULE

SYM. DESCRIPTION FD-1,2 FLOOR DRAIN, JOSAM MODEL 30002-A BRADLEY HSL-1 WITH BUILT IN FAUCET, 4-8" WALL, 1/2" HW AND CW, 1-1/2" W CONNECTION WITH FACTORY <u>L-1</u> MOUNTING BRACKETS AND BOLTS FOR 8" CMU WALL OILET, ACORN D 2105WITH OPEN FRONT HINGED TOILET SEAT LESS COVER SLOAN "ROYAL" EXPOSED WC-1 CLOSET FLUSHOMETER MODEL 113-1.6, WITH CLOSET CARRIER SUPPORT, 4" VENT AND SEWER CONNECTION BOSCH 2.5 GAL. WATER HEATER, INSTALL WITH UNIONS FOR MAINTENANCE. WH-CLOSET CARRIER, JOSAM VERTICAL SINGLE ADJUSTABLE CARRIER MODEL 14464 WITH 4" VENT AND (2) 2" <u>CC-1</u> AUXILIARY INLETS -(1) PLUGGED & (1) ATTACHED TO SINK WASTE LINE. HB-1 1/2" HOSE BIBB/DRAIN, 45DEG TILT. REDUCED PRESSURE BACKFLOW PREVENTER, FEBCO 1" MODEL 825YA, N-SHAPE BODY STYLE, 175 PSI MAX. WORKING PRESSURE, 32-140F TEMPERATURE RANGE, BRONZE VALVE BODY AND RELIEF VALVE , STAINLESS RPBP-STEEL SPRINGS, NITRILE SEAT DISCS AND DIAPHRAGMS, WYE STRAINGER. TRAP PRIMER, ZURN Z1022, 1/2" UNION, CONNECTOR Z1023 2" TP CHECK VALVE, 3/4" SPRING, APOLLO 6110401 <u>CV</u> BALL VALVE, 1" FULL PORT, WATTS SERIES FBV. BV-1 CURB STOP, 1" CURB BALL VALVE, ${ m cl}$ TURN CHECK THREAD INTAKE,FLARE OUTPUT,MUELLER 300 SERIES. <u>CS-1</u> NCLUDE 7 FT. RETRACTABLE CURB BOX MUELLER H-10385 AND FOOT BASE H-10397



GENERAL NOTES:

- ALL INTERIOR WATER PIPING SHALL BE RIGID TYPE "L" COPPER, EXTERIOR WATER PIPING SHALL BE SOFT, SEAMLESS TYPE "K", UNLESS OTHERWISE NOTED. 1" TYPE "K" COPPER SHALL ENTER THE STRUCTURE THROUGH 1½" PVC SLEEVE AS COLD WATER, DOMESTIC, INSULATED WITH SPRAY FOAM POLYURETHANE. TRANSITION TO ¾" RIGID TYPE "L" COPPER TUBE SHALL OCCUR AT 1" BRONZE BALL VALVE (BV-1).
- 2. WATER VALVES FOR SINK AND TOILET SHALL BE INSTALLED ON THE UTILITY SIDE OF THE KIOSK.
- 3. ALL PLUMBING INSTALLATION TO MEET INTERNATIONAL PLUMBING CODE(I.P.C) REGULATIONS. FOLLOW ALL LOCAL MUNICIPALITIES OR AHJ STANDARDS WHICH MAY APPLY.
- 4. COORDINATE LOCATION OF PLUMBING EQUIPMENT WITH ELECTRICAL CONTRACTOR. INSTALL ALL PLUMBING EQUIPMENT ON DIVIDING WALL AND WALL OPPOSITE ELECTRICAL PANELS. PROTECT ALL COPPER PIPE WITH 1" THICK INSULATION SLEEVES. DO NOT INSTALL INSULATION CLOSER THAN 6" FROM HOT WATER HEATER.
- 5. EQUIVALENT PLUMBING EQUIPMENT MAY BE SUBSTITUTED IF REQUESTED AND APPROVED USING PROPER SUBMITTAL PROCESS. REQUESTS FOR PROPOSED SUBSTITUTIONS SHALL INCLUDE JUSTIFICATION FOR CHANGE AS WELL AS A COMPLETE SET OF DATA AND PRODUCT INFORMTION SHOWING EQUIVALENT PARAMETERS, CHARACTERISTICS, COMPATABILITY AND THE ABILITY TO ACHIEVE DESIRED RESULTS.

FLAG NOTES:

- COORDINATE EXACT LOCATION OF WATER STUB UP WITH GENERAL CONTRACTOR. PLUMBING EQUIPMENT SHALL BE LOCATED AWAY FROM ELECTRICAL PANELS.
- SEE PLUMBING DETAILS FOR ADDITIONAL INFORMATION. NOT ALL DETAILS SHOWN. EQUIPMENT LOCATIONS AND PIPE ROUTING
- DETERMINED BY PLUMBING CONTRACTOR IN COORDINATION WITH GENERAL CONTRACTOR AND RTD REPRESENTITIVE.
- COORDINATE CONNECTION FOR MOTION SENSING FAUCET WITH ELECTRICIAN.
- ROUGH IN PLACE FIXTURES PER ARCHITECTURAL DRAWINGS. SINK, GRAB BARS AND TOILET SEAT HEIGHT TO MEET ADA REQUIREMENTS
- 1" TYPE K COPPER DOMESTIC WATER DISTRIBUTION LINE PROVIDE 1 ½" PVC SLEEVE FOR WATER STUB UP INTO DRS. K COPPER DISTRIBUTION LINE TO SLOPE UP TO DRS TO ALLOW DRAINAGE AT CURB STOP. VERIFY
- WATER PRESSURE WITH RTD ENGINEER.
- SANITARY SEWER TO GRAVITY DRAIN TO MAIN SANITARY SEWER SYSTEM. SEE CIVIL DRAWINGS FOR REFERENCE. DOUBLE CLEAN OUT TO BE INSTALLED OUTSIDE BUILDING WITH COORDINATION WITH GENERAL CONTRACTOR.

USE SPECIFIED TRAP PRIMER EQUIPMENT FOR MECHANICAL FLOOR DRAIN (FD-2) ONLY. EMBED PIPE IN SLAB AS NEEDED. COORDINATE WITH GENERAL CONTRACTOR FOR FLOOR DRAIN AND TRAP PRIMER INSTALLATION.

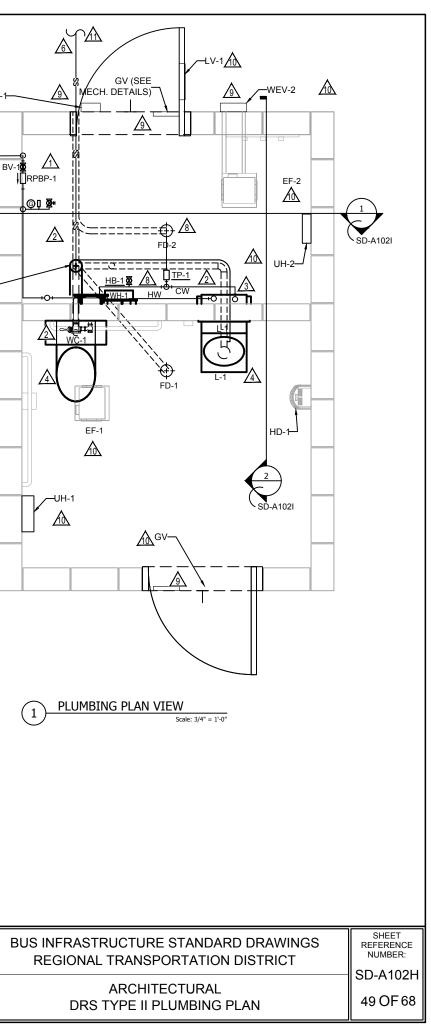
- SEE ARCHITECTURAL PLANS FOR LOCATION.
- SEE MECHANICAL DETAILS.
- SEE SITE PLAN FOR LOCATION OF SEWER AND WATER LOCATIONS.

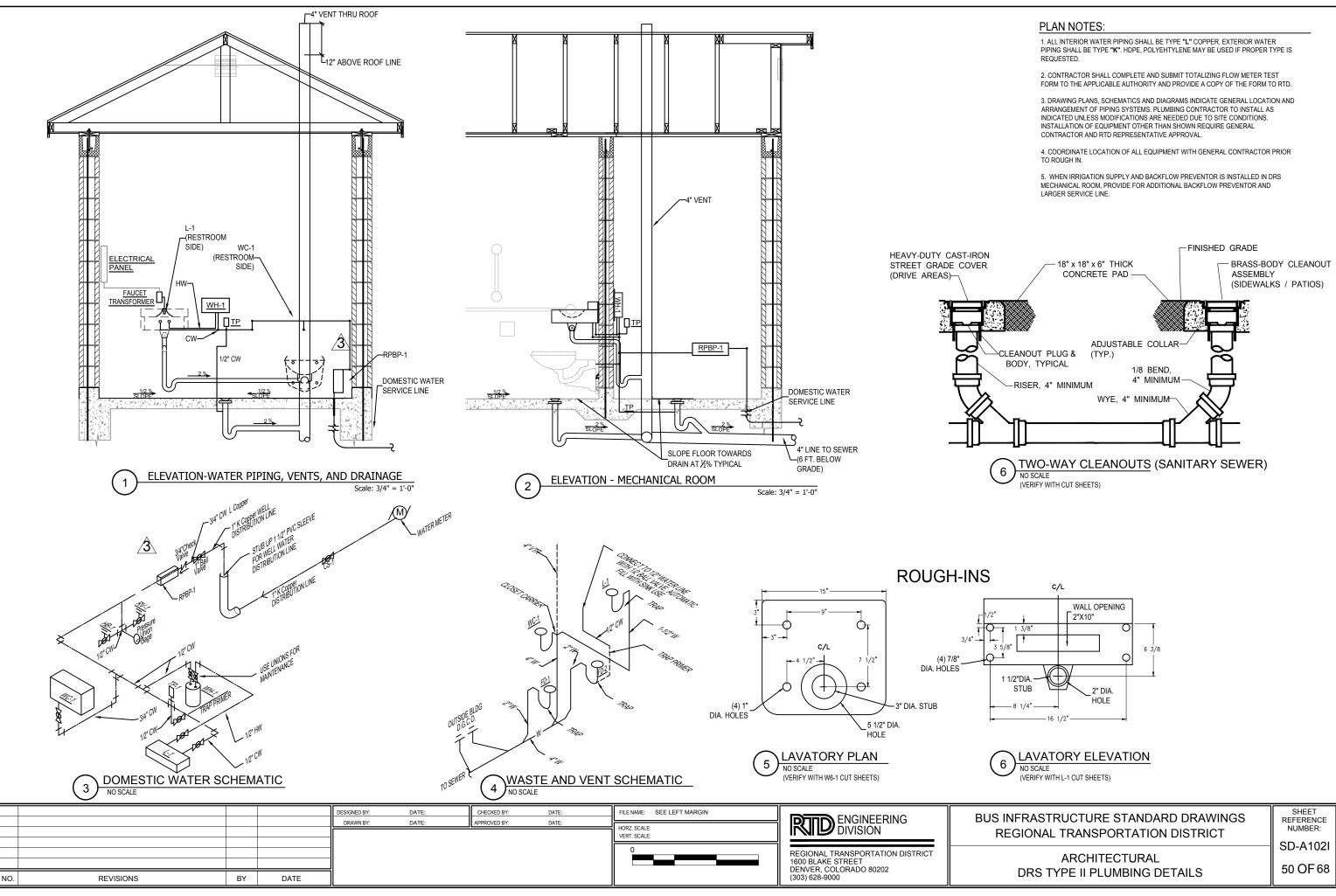
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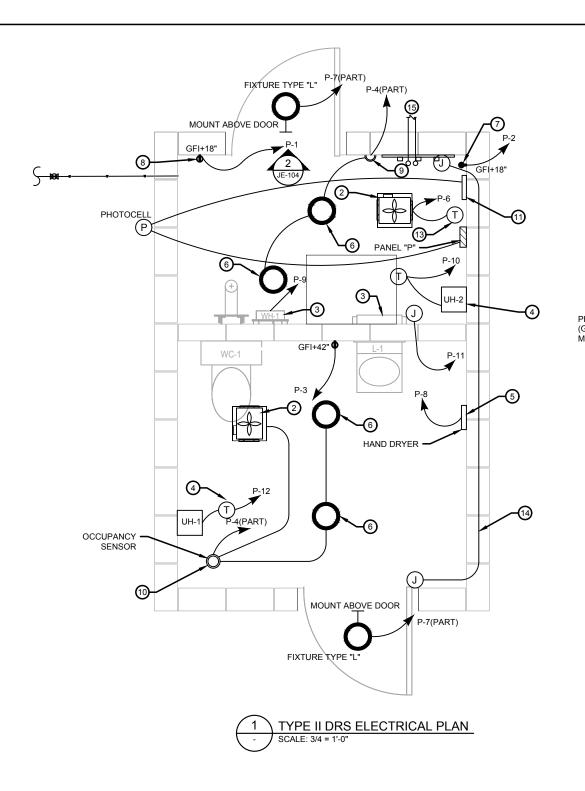
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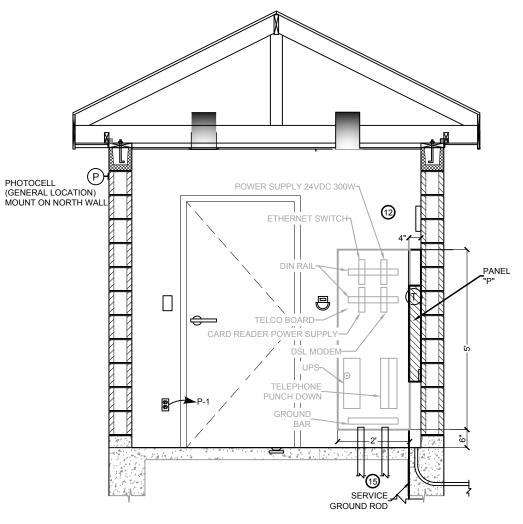
4" VENT STACK

CS-1











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NOTES: COORDINATE EXACT LOCATION OF ELECTRICAL POWER AND COMMUNICATION 1 CONDUIT STUBOUTS WITH GENERAL CONTRACTOR. ELECTRICAL EQUIPMENT SHALL BE LOCATED AWAY FROM PLUMBING EQUIPMENT. GREENHECK EXHAUST FAN. SEE MECHANICAL DRAWING FOR ADDITIONAL INFORMATION. CONTROL AS SHOWN. COORDINATE CONNECTION FOR MOTION SENSING FAUCET AND WATER HEATER WITH PLUMEER. HARDWIRE SENSOR TRANSFORMER TO P-11. HARDWIRE WATER 3 HEATER TO P-9. (4) UNIT HEATERS TO BE SURFACE MOUNT ON WALL. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS. PROVIDE FLUSH MOUNTED JUNCTION BOX IN CEILING TO CONCEAL THERMOSTAT SENSOR. THERMOSTAT CONTROLS FOR ALL HEATERS TO BE LOCATED IN MECHANICAL ROOM. COORDINATE THERMOSTAT'S EXACT LOCATION WITH MECHANICAL CONTRACTOR AND GENERAL CONTRACTOR. SEE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF HAND DRYER. (5) CONDUIT TO BE EMBEDDED IN BLOCK WALL. COORDINATE WITH MASONRY CONTRACTOR AND GENERAL CONTRACTOR. SEE MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION. SEE ARCHITECTURAL DRAWINGS FOR LOCATION. 6 4" RECESSED LED CAN FIXTURES TO BE CONTROLLED BY OCCUPANCY SENSORS. LITHONIA 4GI-MW-LED-L3LED-T24 OR SUBMITTED AND APPROVED EQUAL. GFI QUAD RECEPTACLE DEDICATED TO IT EQUIPMENT. UPS TO BE POWERED BY THIS OUTLET. INSTALL 18-INCHES ABOVE FINISHED FLOOR. (8) GENERAL GFCI RECEPTACLE FOR FACILITY MAINTENANCE. WALL MOUNT COMBINATION OCCUPANCY SENSOR (OC-2) AND SWITCH AT 44-INCHES ABOVE FINISHED FLOOR. CONDUIT IN MECHANICAL ROOM INSTALLED EXPOSED. WATTSTOPPER DSW-100 DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR OR SUBMITTED AND APPROVED EQUAL OCCUPANCY SENSOR (OC-1) SHALL BE CEILING MOUNTED. WATTSTOPPER CI-300 10 LOW VOLTAGE PIR CEILING SENSOR WITH BZ-150 POWER PACK OR SUBMITTED AND APPROVED EQUAL. NOTE TO CONTRACTOR: POWER PACK MUST BE PROVIDED. OCCUPANCY SENSOR TO HAVE EXHAUST FAN OPERATE ON 10 MINUTE DELAY.

(1) LIGHTING CONTACTORS AND CONTROL SWITCHES TO BE MOUNTED NEAR PANEL "P" ON SAME WALL(MOUNT PHOTOCELL ON NORTH WALL).

12 I.T. EQUIPMENT INSTALLATION BY COMMUNICATION SUBCONTRACTOR. ELECTRICAL SUBCONTRACTOR TO PROVIDE DEDICATED CIRCUIT FOR POWER. INSTALLATION OF ELECTRICAL EQUIPMENT SHALL LEAVE NEC 2014 150V WORKING SPACE CLEARANCE.

(3) INSTALL WALL MOUNTED THERMOSTAT AT 60" ABOVE FINISHED FLOOR. COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATION AND SETTINGS. EF-2 SHALL PROVIDE VENTILATION IF ROOM TEMPERATURE > 90° F.

(14) PROVIDE AND INSTALL NEW JUNCTION BOXES AND 3/4" CONDUIT FROM HINGE SIDE OF DOOR TO TELCO BOARD FOR ACCESS CONTROL ELECTRIC LOCK POWER FEED.

(15) STUB (2) 2" PVC/GRSC CONDUITS FROM UNDERNEATH TELCO BOARD TO 24" AWAY FROM DRS FOUNDATION. MINIMUM INSTALLED DEPTH TO BE 24" BELOW FINISHED GRADE. CAP BOTH ENDS, PROVIDE PULL TAPE AND TRACER WIRE.

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

SHEET REFERENCE NUMBER: SD-A102J

ARCHITECTURAL DRS TYPE II ELECTRICAL PLAN

GENERAL NOTES:

- INSTALL ELECTRICAL SYSTEM PER THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE 1. (NEC) AND LOCAL MUNICIPAL REQUIREMENTS.
- ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 80 PVC. ALL PRECAST CONCRETE 2. PULL-BOX COVERS SHALL BE RATED FOR VEHICLE TRAFFIC.
- IDENTIFY PATHS OF UNDERGROUND ELECTRICAL LINES WITH 6" WIDE BY 4 MILS THICK YELLOW 3. COLORED VINYL TAPE. INSTALL TAPE 6" - 12" BELOW FINISHED GRADE. TAPE SHALL HAVE PRINTED WARNING THAT AN ELECTRIC CIRCUIT IS LOCATED BELOW THE TAPE.
- PROVIDE PULL WIRES IN ALL EMPTY CONDUITS. USE #14 AWG ZINC COATED STEEL OR 4. MONO-FILAMENT PLASTIC LINE HAVING NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE NOT LESS THAN 12" OF SLACK AT EACH END OF PULL WIRE.
- INSTALL LUMINAIRES AND OTHER ELECTRICAL EQUIPMENT INCLUDING CONTROLS AND COMMUNICATION SYSTEMS PER MANUFACTURERS INSTRUCTIONS. 5.
- 6. PHOTOCELL SHALL BE MOUNTED ON NORTH SIDE OF DRIVER'S RELIEF STATION.
- ELECTRICAL METER HOUSING AND ALL OTHER ELECTRICAL EQUIPMENT TO BE NEW AND PROVIDED BY THE CONTRACTOR. METER PROVIDED BY XCEL ENERGY. COORDINATE WITH XCEL 7. FOR EQUIPMENT AND INSTALLATION REQUIREMENTS.
- 8. DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL CONDITIONS AT THE BUILDINGS AND AT THE SITE. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. HOWEVER, THIS DOES NOT RELIEVE ANY SUB-CONTRACTOR FROM COORDINATING HIS WORK WITH ALL OTHER TRADES AND FROM ADJUSTING HIS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.
- INFORMATION ON THESE DRAWINGS SHOWING DESCRIPTIONS, CATALOG NUMBERS, POLE AND 9. MOUNTING DETAILS, INITIAL LUMENS, LIGHT LOSS FACTORS, AND OTHER EQUIPMENT/MATERIAL PARAMETERS ARE INCLUDED AS DESIGN GUIDELINES OR BECAUSE THEY ARE NEEDED TO MEET SPECIFIC RTD REQUIREMENTS. EQUIVALENT ELECTRICAL EQUIPMENT AND/OR MATERIAL MAY BE SUBSTITUTED IF REQUESTED AND APPROVED USING PROPER SUBMITTAL PROCESS. REQUESTS FOR PROPOSED SUBSTITUTIONS SHALL INCLUDE JUSTIFICATION FOR CHANGE AS WELL AS A COMPLETE SET OF DATA AND PRODUCT INFORMATION SHOWING EQUIVALENT PARAMETERS, CHARACTERISTICS, COMPATIBILITY AND AND ABILITY TO ACHIEVE DESIRED RESULTS.

		ELECTRICAL LEGEND
ABBR.	SYMBOL	DESCRIPTION
	D F	POLE MOUNTED LIGHTING FIXTURE (LETTER DESIGNATION INDICATES FIXTURE TYPE TYPICAL)
	OHL	WALL MOUNT LIGHTING FIXTURE (LETTER DESIGNATION INDICATES FIXTURE TYPE TYPICAL)
	T	THERMOSTAT
XFMR		TRANSFORMER
PBELEC	E	ELECTRIC PULL BOX, FLUSH WITH FINISHED GRADE
СОММ	С	COMMUNICATION PULL BOX, FLUSH WITH FINISHED GRADE
нн	\mathbf{X}	HANDHOLE
	P	PHOTOCELL
	Ο	RECESSED LED LIGHTING FIXTURE
OHE		EXISTING OVERHEAD ELECTRIC
JGE		UNDERGROUND ELECTRIC CONDUIT
CCTV	<u>— ссту — ссту — ссту —</u>	UNDERGROUND CAMERA CONDUIT
		UNDERGROUND TELEPHONE CONDUIT
TEL		EMERGENCY TELEPHONE POWER CONDUIT
		EMERGENCY TELEPHONE COMMUNICATIONS CONDUIT
		CONDUIT FOR FUTURE NEEDS
	PB1-1,3	BRANCH CIRCUIT HOMERUN TO PANELBOARD, NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS, DESIGNATION INDICATES PANEL & CIRCUIT NUMBERS
	1	ELECTRICAL CONDUIT NUMBER (SEE RACEWAY SCHEDULE, JE-107)
	o	CONDUIT OR PIPE STUB-UP
		CONDUIT OR PIPE STUB-DOWN
		STAKED AND CAPPED CONDUIT
WP		WEATHER PROOF
G		GROUND CONDUCTOR
AFG		ABOVE FINISHED GRADE
UON		UNLESS OTHERWISE NOTED
(E)	4	EXISTING SINGLE THROW SWITCH
	\$	
	P	DUPLEX RECEPTACLE
	₽ 000	QUAD RECEPTACLE
		EXHAUST FAN WITH MOTOR
	O ^{0C-1} ⊖	OCCUPANT SENSOR (DESIGNATION INDICATES TYPE)
GFCI	ł	GROUND FAULT CIRCUIT INTERRUPTER
	C+	LIGHTING CONTACTOR
	\boxtimes	ELECTRIC OR WATER METER
		ELECTRIC DISCONNECT SWITCH
		CLOSED CIRCUIT TELEVISION SECURITY CAMERA
		SEGED SINGULT TELEVISION SEGUNITI CAWERA

NOTE: NOT ALL ELECTRICAL SYMBOLS ARE SHOWN ON ALL DRAWINGS.

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ARCHITECTURAL DRS TYPE II ELECTRICAL GENERAL NOTES

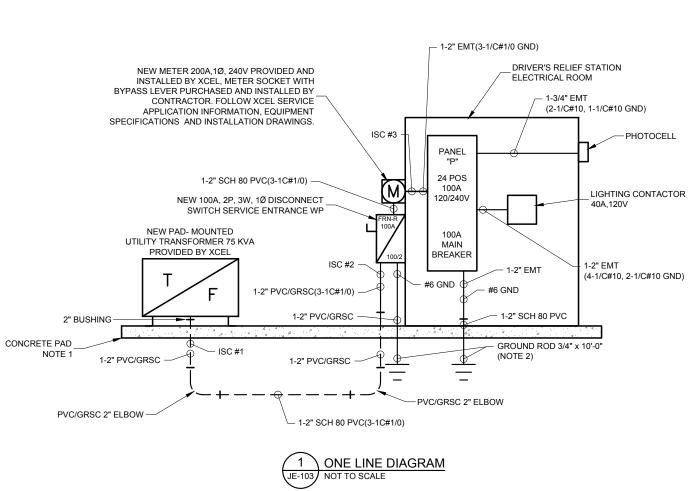
BUS INFRASTRUCTURE STANDARD DRAWINGS **REGIONAL TRANSPORTATION DISTRICT**

NUMBER: SD-A102K

52 OF 68

SHEET REFERENCE

e	FLUSH URFACE X	M.C.B.		- cu		MLO_	Х	. I.G	BAR	10,00	MANF.	BOLT		
3		BU3	TUUA	00	-				A.I.C.	10,00	. с.в.	BOLI		
TYPE	DESCRIPTION	BKR	CIR	LOAD		T AMPS)/PH.	CIR	BKR	DE	SCRIPTION		TYPE	
				A		В								
	DRS WALL REC	20	1	180	360			2	20	COM	/I REC		R	
R	DRS WALL REC	20	3			180	300	4	20	DRS I	_IGHTING/EF		LG	
	SPARE	20	5	0	200			6		DRS I			М	
L	DRS EXTERIOR LTG	20	7			500	1000	8	20	DRS I	HAND DRYE	R	G	
-	DRS EWH	20	9	1500	1500			10		DRS I	-		G	
G	DRS FAUCET SENSOR	20	11			500	1500	12	20	DRS I			G	
	SPARE	20	13	0	0			14	20	SPAR	E			
	SPARE	20	15			0	0	16	20	SPAR				
	SPACE		17	0	0			18		SPAC				
	SPACE		19		_	0	0	20		SPAC				
	SPACE		21	0	0			22		SPAC				
	SPACE		23			0	0	24		SPAC	E			
		~~~		3740		3980	FAATO	Į	DEM		TOTAL			
	LOAD TYPE	00					FACTOF	κ				-		
			<b>A</b> 0.0	<b>B</b> 0.6	ALL F	PHASE	5 125%		<b>A</b>	<b>B</b> 0.8	ALL PHASI	<b>E</b> 3		
	RECEPTACLE (10KVA ( RECEPTACLE (OVER 1		0.5	0.2	0.7		<u>100%</u> 50%		0.5	0.2	0.7			
	HVAC/MOTOR	ur vaj	0.0	0.0	0.0		100%		0.0	0.0	0.0			
			0.2	0.0	0.2					0.0	0.2			
	MOTOR(LARGEST)		0.0	0.0	0.0		<u>125%</u> 100%		0.0	0.0	0.0			
	MISCELLANEOUS		3.0	3.2	6.2		100%		3.0	3.2	6.2			
		LKVA		4.0	7.7		TOTA			4.1	7.9			
∖∧лт⊔	GROUND BUS		3.1	4.0	1.1		TOTAL							
	GROUND BUS	<u> </u>	-0-0-		NA - 1 N	(10 (11			31.2 : KITCH		G = MISCEL			



			LIGHTING FIXTURE SCHEDULE				
TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING	POLE	VOLTAGE	LAMPS/BALLAST
L	LITHONIA OR EQUAL	DSXW1-LED-10C-530-40K-T2M-MVOLT	D-SERIES LED WALL MOUNTED FIXTURE, 1 (10) LEDS, TYPE 2 MEDIUM DISTRIBUTION, BLACK FINISH	WALL MOUNT OVER DOOR	N/A	120	19W, 10 LEDS 530 mA DRIVER 4000K CRI
	NOTE: CIRCUIT E	EXTERIOR MOUNTED LIGHTING FIXTURES	S VIA LIGHTING CONTACTOR: PHOTOCELL ON, PHOTOCELL OFF.				

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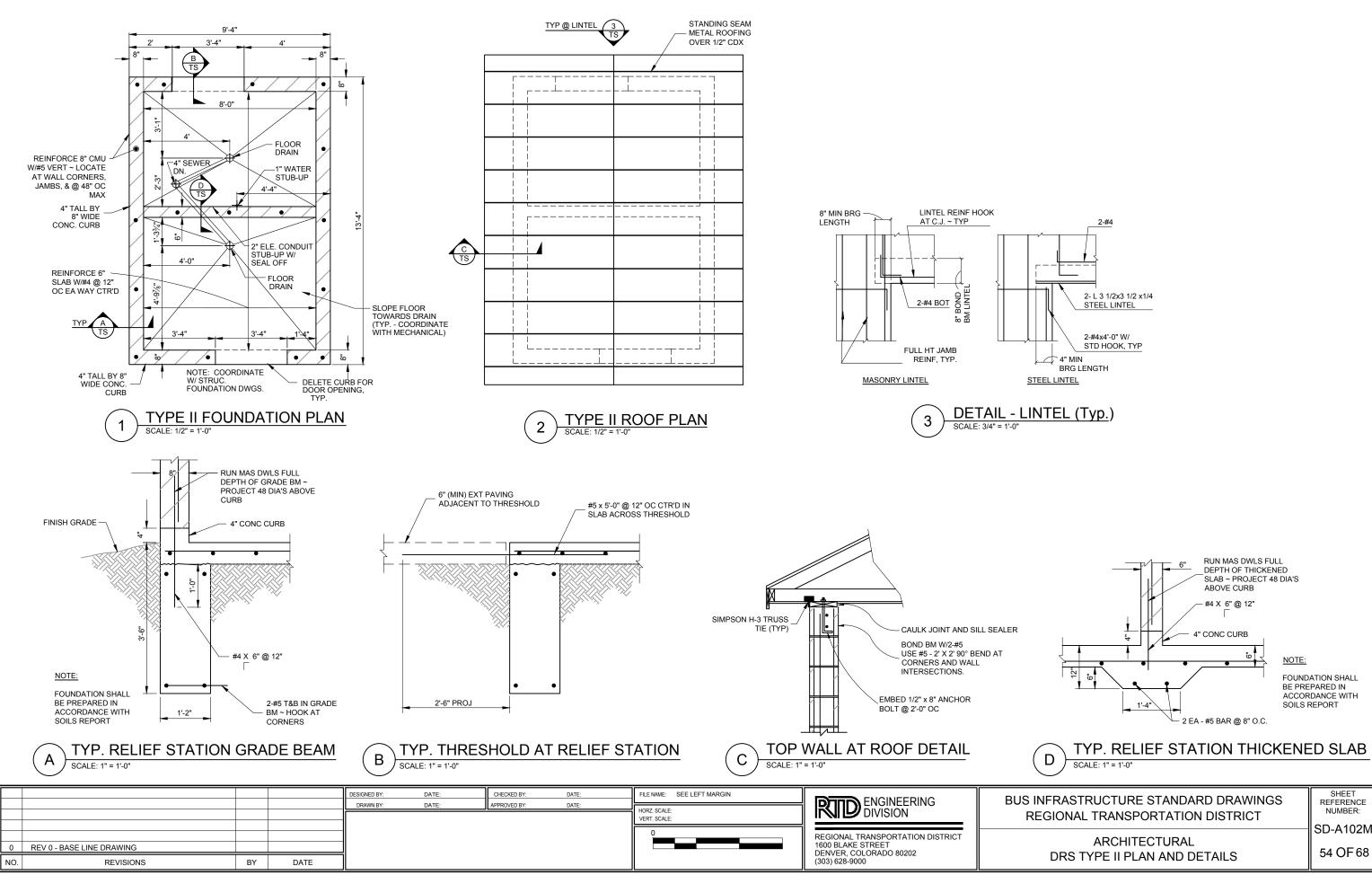
#### ARCHITECTURAL 53 OF 68 TYPE II ELECTRICAL ONE-LINE DIAGRAM, DETAILS

BUS INFRASTRUCTURE STANDARD DRAWINGS **REGIONAL TRANSPORTATION DISTRICT** 

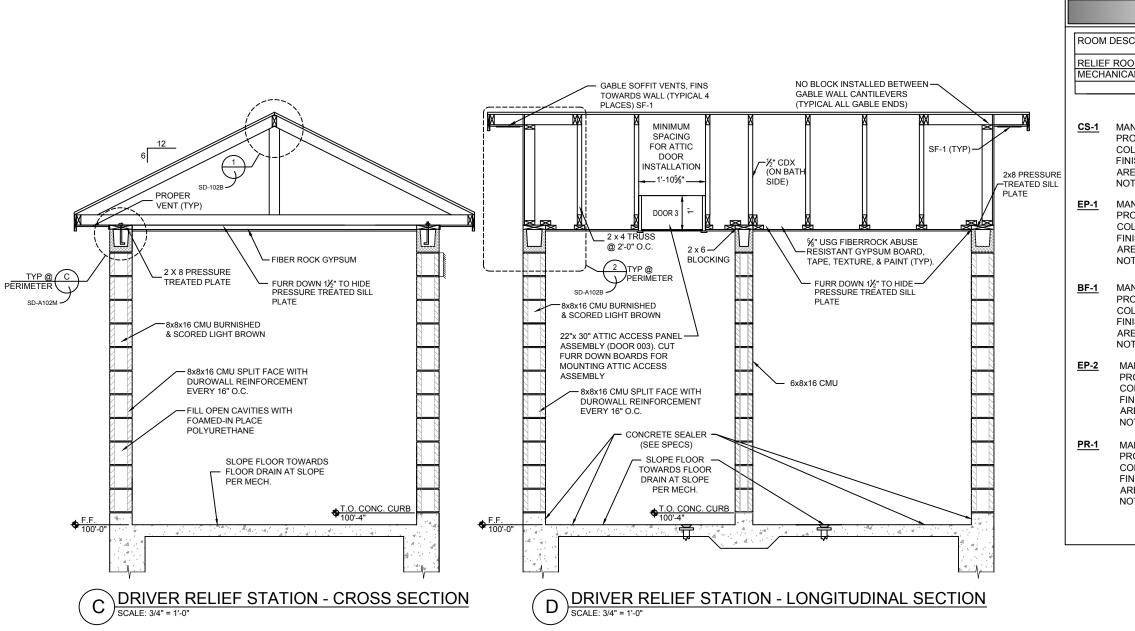
SHEET REFERENCE NUMBER: SD-A102L

1. CONTRACTOR SHALL COORDINATE WITH CIVIL ENGINEER ON PAD DESIGN FOR ELECTRICAL EQUIPMENT.

2. PROVIDE EXOTHERMIC CONNECTION TO GROUND ROD.



SD-A102M



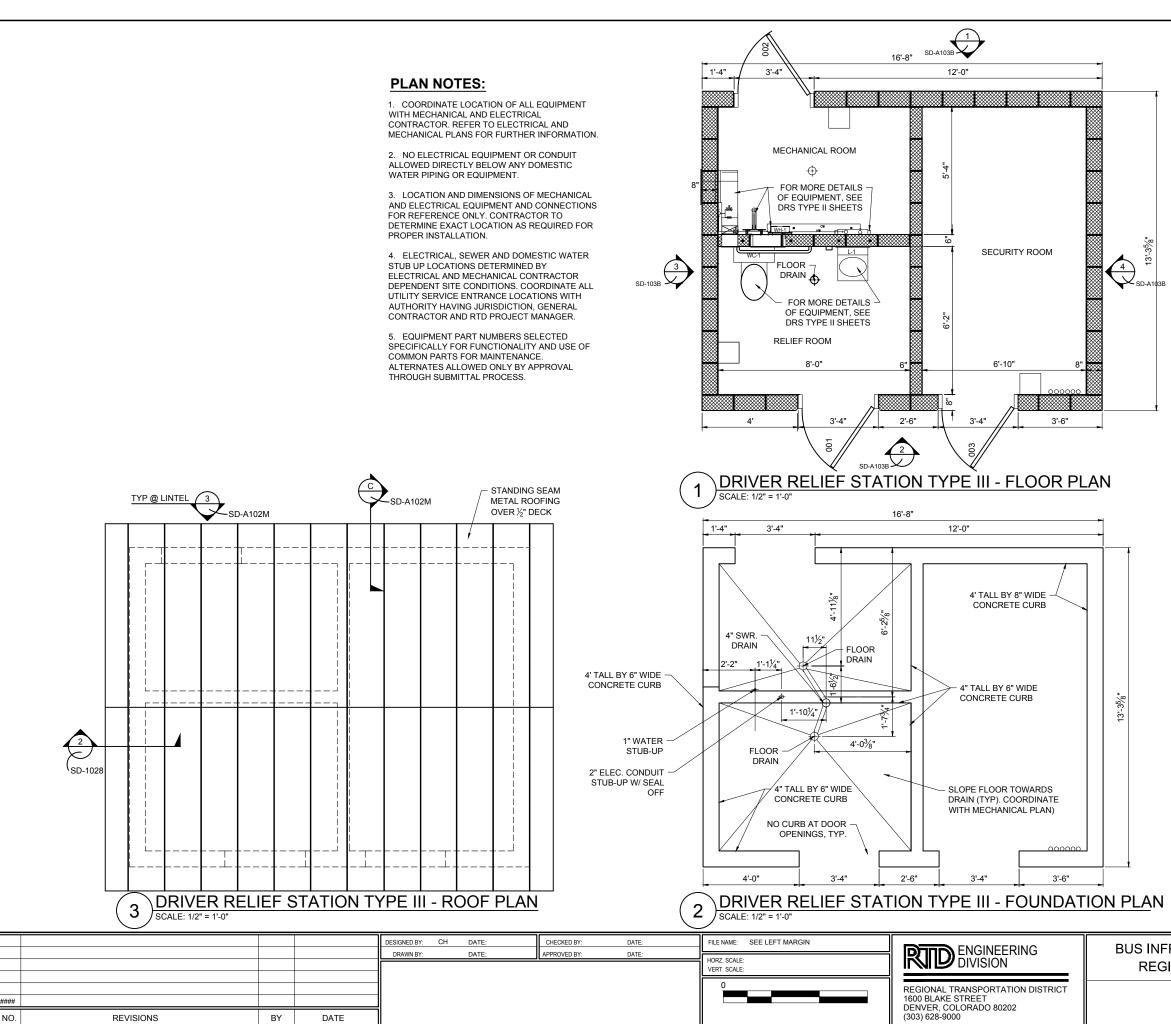
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	FINI	SH SCHEI	DULE		
ESCRIPTION	I FLOOR	BASE	WALLS	CLG	
ROOM ICAL ROOM	CS-1 CS-1	CS-1 CS-1	BF-1 (1) EP-1 (2) BF-1(1) EP-1 (2)	PR-1 (1) PR-1 (1)	EP-2 (2) EP-2 (2)
PRODUCT: L COLOR: C FINISH: M AREA: F NOTES: F MANUF: F PRODUCT: F COLOR: 2 FINISH: C AREA: 2	PPG PITT-GLAZE WB W. PITT-GLAZE WB W. PIC-3 HONEY BEIG SLOSS COATS OVER PR	PPLIED BY AN A ATER-BORNE A E IMER BF-1 ON A	APPROVED INSTALLER PER		
PRODUCT: F COLOR: ( FINISH: - AREA: 1	CLEAR COAT PRIMER O	N ALL WALLS	BLOCK FILLER LATEX #16-9		REQUIREMENTS.
PRODUCT: COLOR: FINISH: AREA:	316-1 PARCHMEN GLOSS 2 COATS OVER PI	T PAPER	CRYLIC EPOXY #16-551 EILING APPROVED INSTALLER PE	R THE MANUF	. REQUIREMENTS.
PRODUCT:	PPG SPEEDHIDE INT/E WHITE	XT ACRYLIC LA	TEX ALKALI RESISTANT PR	IMER	
AREA:	1 COAT PRIMER C PRODUCT TO BE		APPROVED INSTALLER PE	r the manuf	. Requirements.

### BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

SHEET REFERENCE NUMBER: SD-A102N

ARCHITECTURAL DRS TYPE II SECTIONS



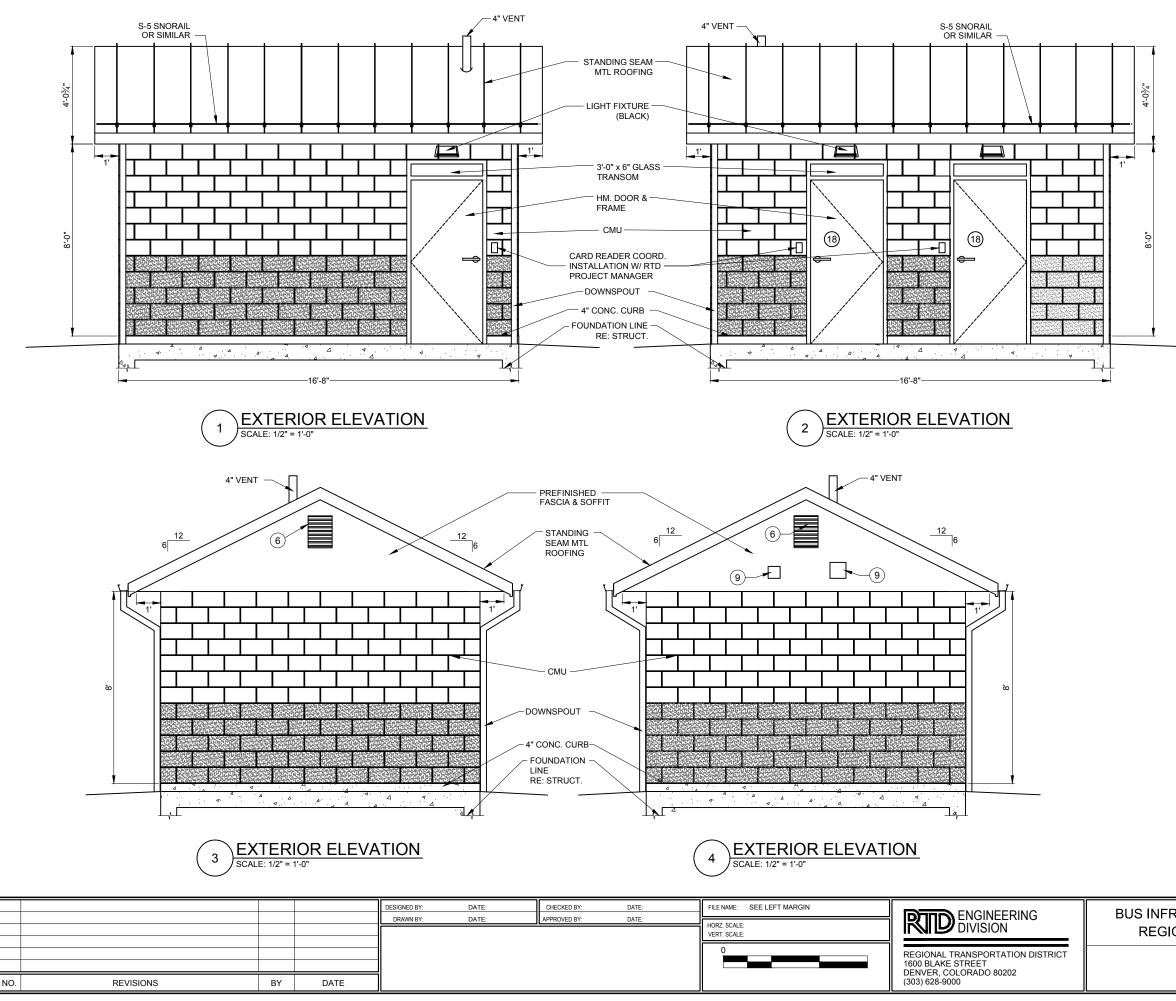
## ARCHITECTURAL DRS TYPE III PLANS

**BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT** 

REFERENCE NUMBER: SD-A103A

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SHEET



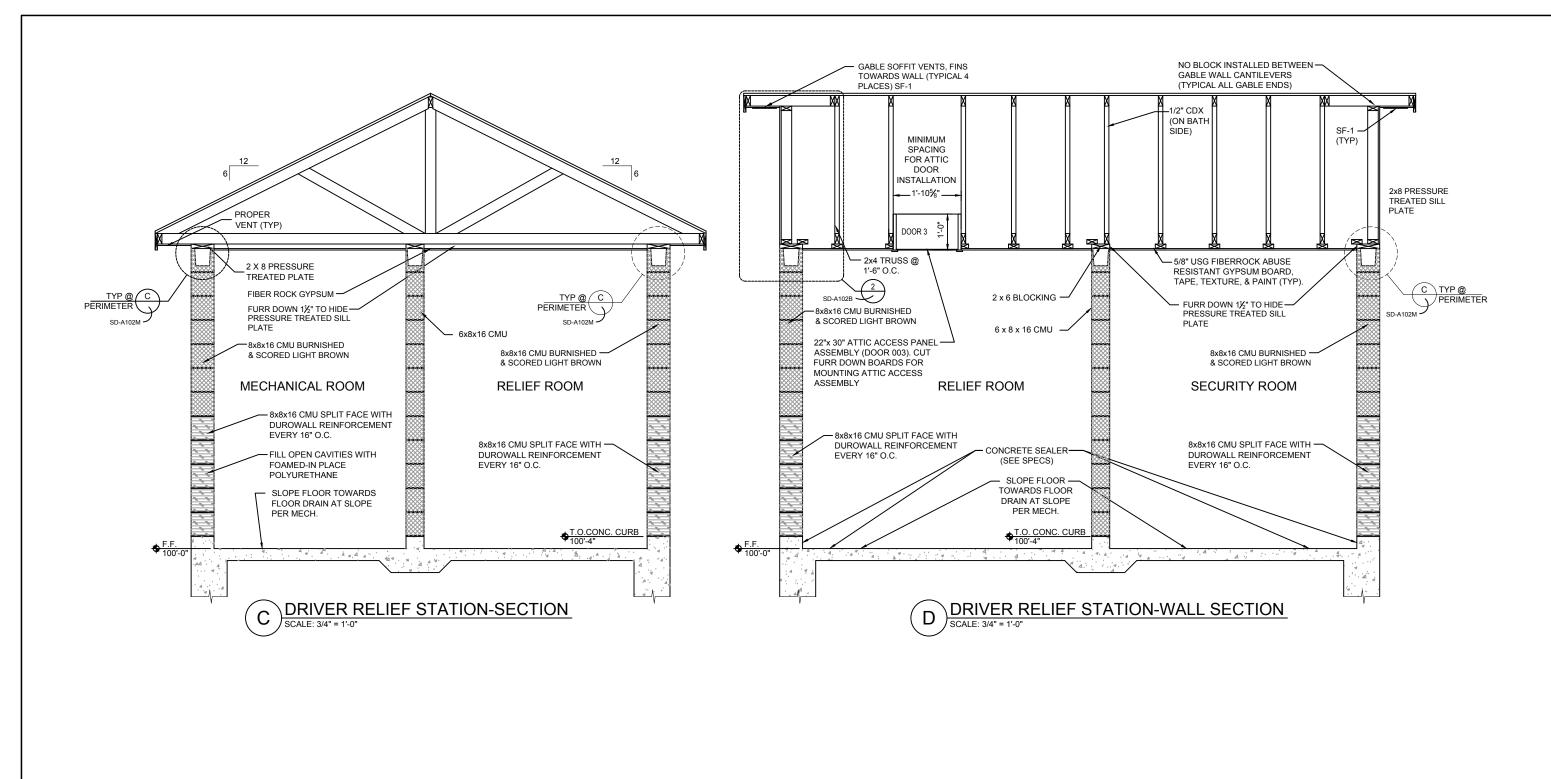
#### **ELEVATION FLAG NOTES:**

- (1) RE: DRS IV ELECTRICAL
- RE: DRS IV ELECTRICAL
- 3 RE: DRS III MECHANICAL
- (4) RE: DRS III MECHANICAL
- 5 RE: DRS III MECHANICAL
- PROVIDE 12" W x 1⁻ 4" H LOUVER VENT W/INSECT SCREEN. CONSTRUCTION METALS INC. 12"X12" GALVANIZED CENTER FLANGE GABLE LOUVER MODEL: #GLFC1212G OR APPROVED EQUAL. 6
- PROVIDE IN MECHANICAL ROOM A 3/4 "X 1'-0" X 3'-0" PLYWOOD EQUIPMENT PANEL ON 2 UNISTRUT CHANNEL P 1000T.
- 8 RE: DRS III MECHANICAL 9 RE: DRS III
- 1 RE: DRS III MECHANICAL
- TOILET PAPER HOLDER, BRADLEY #5402, MOUNT WITH #8-3/4" WOOD SCREW WITH EXPANSION SHIELD AT 24" A.F.F.
- DOOR 002 LOCKS: CONTRACTOR SHALL FURNISH AND INSTALL A TRILOGY T2, ALDL 2800 I/C 260 WITH A BEST KEY LOCK IDN ACME PART #071124
- (3) RE: DRS III MECHANICAL
- DOOR 001 LOCK: CONTRACTOR SHALL FURNISH AND INSTALL BEST ACCESS SYSTEMS, ELECTRONIC 35HBV-626-MORTISE, PROX CARD VERSION (INCLUDE BATTERIES AS NECESSARY), RTD WILL FURNISH CARD READER ONLY, CONTRACTOR SHALL INSTALL SAME.
- (1) ADD INTERIOR PRIVACY LOCK FOR OCCUPANT

#### **BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT**

SHEET REFERENCE NUMBER: SD-A103B

#### ARCHITECTURAL DRS TYPE III ELEVATIONS



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BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT

> ARCHITECTURAL DRS TYPE III SECTIONS

SHEET REFERENCE NUMBER: SD-A103C

FINISH SCHEDULE						
ROOM DESCRIPTION	FLOOR	BASE	WALLS	CLG		
RELIEF ROOM	CS-1	CS-1	BF-1 (1) EP-1 (2)	PR-1 (1)	EP-2 (2)	
MECHANICAL ROOM	CS-1	CS-1	BF-1 (1) EP-1 (2)	PR-1 (1)	EP-2 (2)	
SECURITY ROOM	CS-1	CS-1	BF-1 (1) EP-1 (2)	PR-1 (1)	EP-2 (2)	

		DOC	R Al	ND	FRAM	E SCH	HEDU	LE
DOOR	SIZE	DOOR TYPE	FRAME TYPE	MAT'L	FINISH	HEAD		RATING
001	3070 1 3/4		В	HM	PAINTED	H-1	J-1	NONE
002	3070 1 3/4	Α	В	HM	PAINTED	H-1	J-1	NONE
003	3070 1 3/4	А	В	НМ	PAINTED	H-1	J-1	NONE

		HARDWARE SCHEDU	JLE		
OPENING	QTY/SET	QTY - ITEM NUMBER	TYPE	MFR	;
001	1 001.00	3.0 - TA2314 4.5 X 4.5 US26D NRP		MCK	
		1.0 - ELEC. STRIKE 1006-C-S-630		*ASSA	
		NET2 CONTROLLER W/BATERY BACKUP		*PAX	
		1.0 - 26BIT HID READER RP40		*PAS	
		1.0 B250,SFIC DEADLATCH		SCHL	
		1.0 - PULL PLATE-1822		TRIMCO	
		1.0 - LCN-4000		*ALL	
		1.0 - 425E 36"		NGP	
		1.0 - A626A 1/36" X 2/84"		NGP	
		1.0 - C627A 36"		NGP	
		1.0 - 16A		NGP	
		1.0 - OCCUPANCY INDICATOR		*AO	C
OPENING	QTY/SET	QTY - ITEM NUMBER	TYPE	MFR	;
002	1 001.00	3.0 - TA2314 4.5 X 4.5 US26D NRP		MCK	
		1.0 - B719		SCHL	D
		1.0 - PULL PLATE-1822		TRIMCO	
		1.0 - LCN - 4000		*ALL	
		1.0 - 425E 36"		NGP	
		1.0 - A626A 1/36" X 2/84"		NGP	
		1.0 - C627A 36"		NGP	
		1.0 - 16A		NGP	
OPENING	QTY/SET	QTY - ITEM NUMBER	TYPE	MFR	1
003	1 001.00	3.0 - TA2314 4.5 X 4.5 US26D NRP		MCK	
		1.0 - B719		SCHL	D
		1.0 - PULL PLATE-1822		TRIMCO	
		1.0 - LCN - 4000		*ALL	
		1.0 - 425E 36"		NGP	
		1.0 - A626A 1/36" X 2/84"		NGP	
		1.0 - C627A 36"		NGP	
		1.0 - 16A		NGP	
* ASSA AE	BLOY				

* ASSA ABLOY * PAXTON

* PHYSICAL ACCESS SOLUTIONS

* ALLEGION

* ARCHITECTURAL OPENINGS

				DESIGNED BY: CH	DATE:	CHECKED BY:	DATE:	FILE NAME: SEE LEFT MARGIN		
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								HORZ. SCALE: VERT. SCALE:	DIVISION	i
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####									1600 BLAKE STREET DENVER, COLORADO 80202	i l
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CS-1 MANUF: TAMMS

- PRODUCT: LUSTER SEAL 300
- COLOR: CLEAR
- FINISH: NON-YELLOWING CONCRETE CURE & SEAL
- AREA: FLOORS/CURB
- NOTES: PRODUCT TO BE APPLIED BY AN APPROVED INSTALLER PER THE MANUF. REQUIREMENTS.
- EP-1 MANUF: PPG
  - PRODUCT: PITT-GLAZE WB WATER-BORNE ACRYLIC EPOXY #16-551
  - COLOR: 2494 CASHEW
  - FINISH: GLOSS
  - AREA: 2 COATS OVER PRIMER BF-1 ON ALL WALLS NOTES: PRODUCT TO BE APPLIED BY AN APPROVED INSTALLER PER THE MANUF. REQUIREMENTS
- <u>BF-1</u> MANUF: PPG
  - PRODUCT: PITT-GLAZE INTERIOR/EXTERIOR BLOCK FILLER LATEX #16-90
  - COLOR: CLEAR
  - FINISH: -
  - AREA: 1 COAT PRIMER ON ALL WALLS
  - NOTES: PRODUCT TO BE APPLIED BY AN APPROVED INSTALLER PER THE MANUF. REQUIREMENTS.
- EP-2 MANUF: PPG
  - PRODUCT: PITT-GLAZE WB WATER-BORNE ACRYLIC EPOXY #16-551
  - COLOR: 2511 CREAMY WHITE
  - FINISH: GLOSS
  - AREA: 2 COATS OVER PRIMER P-1 ON CEILING
  - NOTES: PRODUCT TO BE APPLIED BY AN APPROVED INSTALLER PER THE MANUF. REQUIREMENTS.
- PR-1 MANUF: PPG
  - PRODUCT: SPEEDHIDE INT/EXT ACRYLIC LATEX ALKALI RESISTANT PRIMER
  - COLOR: WHITE
  - FINISH:
  - AREA: 1 COAT PRIMER ON CEILING
  - NOTES: PRODUCT TO BE APPLIED BY AN APPROVED INSTALLER PER THE MANUF. REQUIREMENTS.

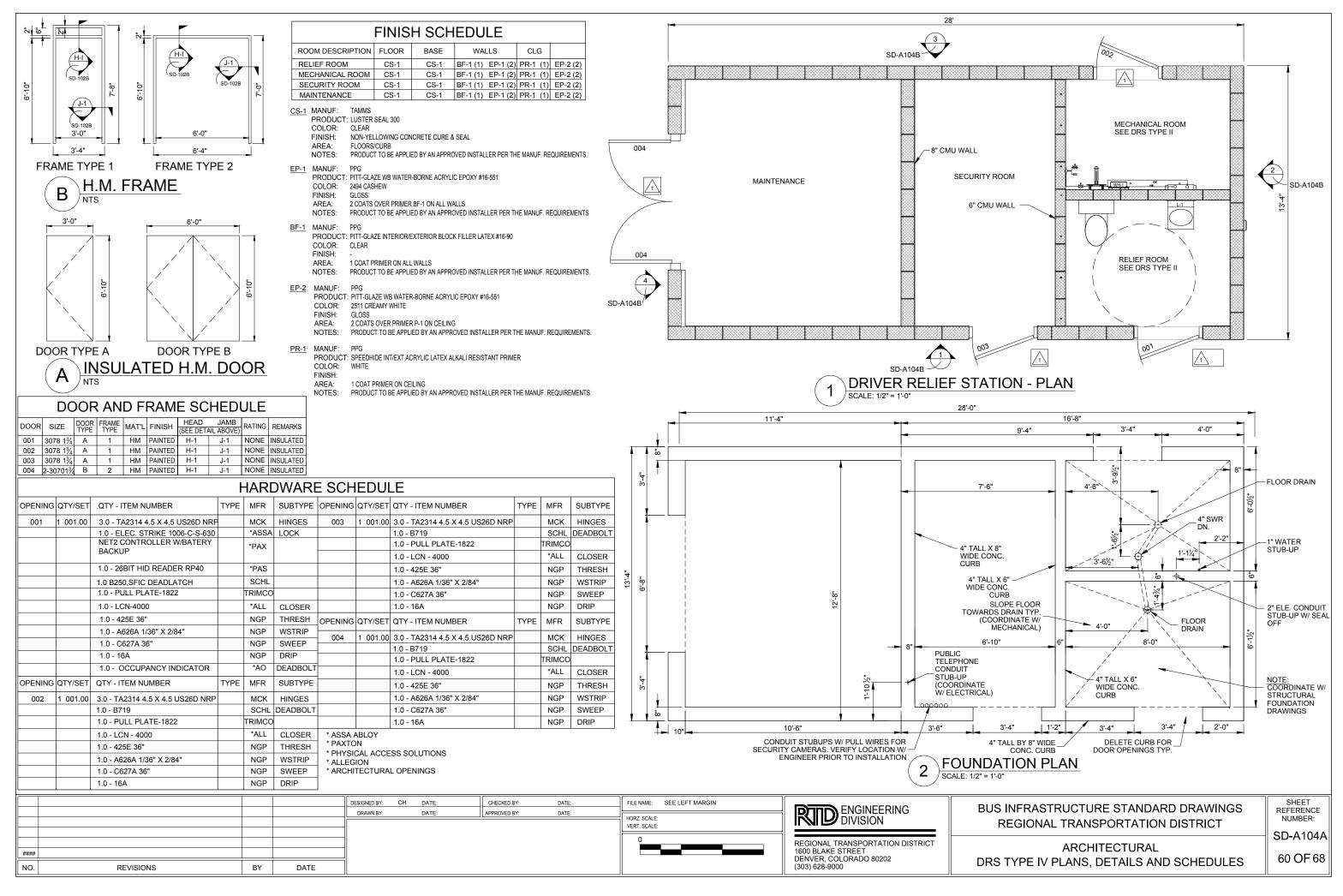
ARCHITECTURAL
DRS TYPE III SCHEDULES

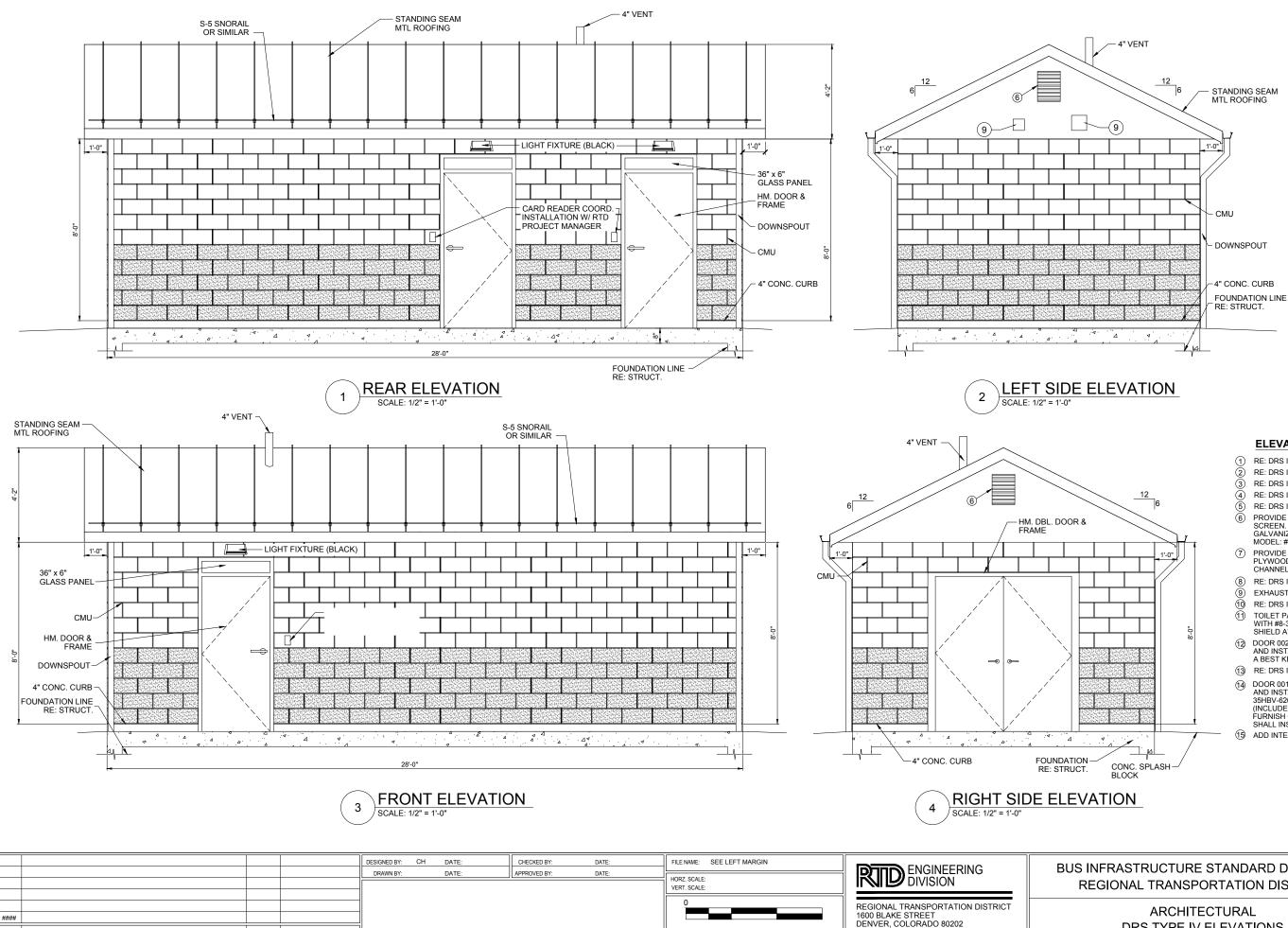
SD-A103D 59 OF 68

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT SHEET REFERENCE NUMBER:

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#### **ELEVATION FLAG NOTES:**

- RE: DRS IV ELECTRICAL
- RE: DRS IV ELECTRICAL
- RE: DRS III MECHANICAL
- RE: DRS III MECHANICAL
- RE: DRS III MECHANICAL
- PROVIDE 12" X 16" LOUVER VENT W/INSECT SCREEN. CONSTRUCTION METALS INC. 12"X16" GALVANIZED CENTER FLANGE GABLE LOUVER MODEL: #GLFC1212G OR APPROVED EQUAL.
- PROVIDE IN MECHANICAL ROOM A 3/4 " X 1'-0" X 3'-0" PLYWOOD EQUIPMENT PANEL ON 2 UNISTRUT CHANNEL P 1000T.
- RE: DRS III MECHANICAL
- EXHAUST FAN OUTLET, RE: MECHANICAL
- (1) RE: DRS III MECHANICAL
- TOILET PAPER HOLDER, BRADLEY #5402, MOUNT WITH #8-3/4" WOOD SCREW WITH EXPANSION SHIELD AT 24" A.F.F.
- (2) DOOR 002 LOCKS: CONTRACTOR SHALL FURNISH AND INSTALL A TRILOGY T2, ALDL 2800 I/C 260 WITH A BEST KEY LOCK IDN ACME PART #071124
- (13) RE: DRS III MECHANICAL
- 1 DOOR 001 LOCK: CONTRACTOR SHALL FURNISH AND INSTALL BEST ACCESS SYSTEMS, ELECTRONIC 35HBV-626-MORTISE, PROX CARD VERSION (INCLUDE BATTERIES AS NECESSARY), RTD WILL FURNISH CARD READER ONLY, CONTRACTOR SHALL INSTALL SAME.
- (5) ADD INTERIOR PRIVACY LOCK FOR OCCUPANT

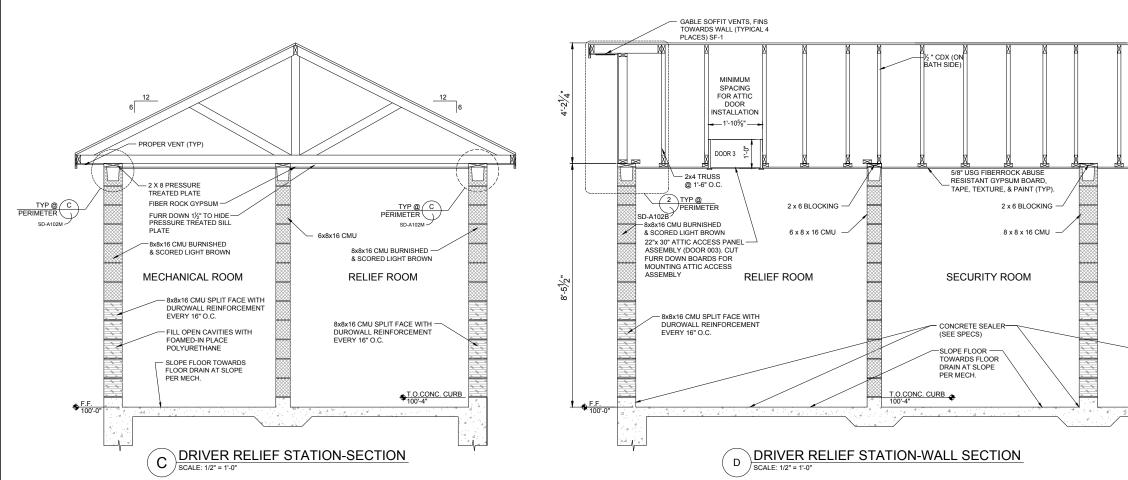
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**BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT** 

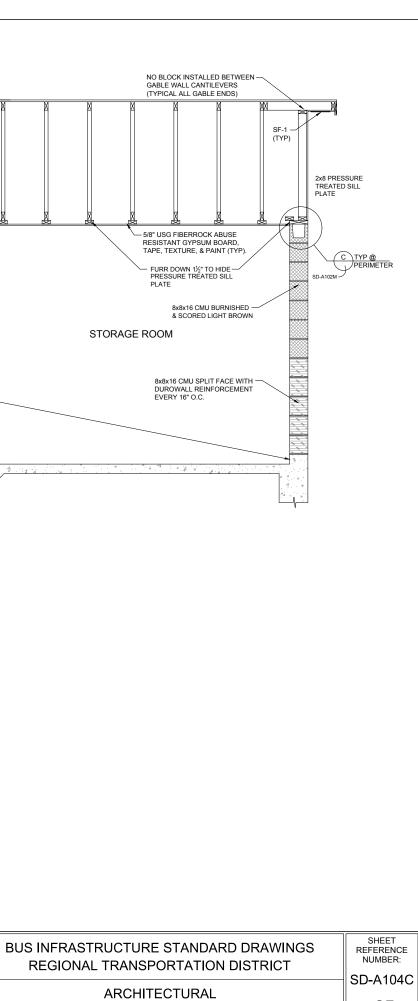
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SD-A104B

# DRS TYPE IV ELEVATIONS



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####									REGIONAL TRANSPORTATION DISTRICT 1600 BLAKE STREET
NO.	REVISIONS	BY	DATE						DENVER, COLORADO 80202 (303) 628-9000



ARCHITECTURAL DRS TYPE IV SECTIONS

#### SIGNAGE - GENERAL INFORMATION

- PASSENGER AND VEHICULAR MOVEMENTS MAY BE AFFECTED BY SIGN PLACEMENT.
- 2. REGULATORY SIGNS SHALL COMPLY WITH MUTCD AND ADA.
- 3. SIGNAGE MAY NEED LOCAL AUTHORITY APPROVAL.
- CONSENT OF THE MARKETING DIVISION.
- RTD WILL PROVIDE.
- 6. RTD SHALL SUPPLY ORIGINAL ARTWORK.
- 8. SAMPLE SIGNAGE DRAWINGS ARE PROVIDED AT THE END OF THIS SECTION.

				DESIGNED BY:	СН	DATE: ######	CHECKED BY: JS		######	FILE NAME: SEE LEFT MARGIN	
				DRAWN BY:	##	DATE: #######	APPROVED BY: HJS	DATE:	######	HORZ. SCALE: VERT. SCALE:	RID ENGINEERING DIVISION
										0	REGIONAL TRANSPORTATION DISTRICT
		JV									1600 BLAKE STREET DENVER, COLORADO 80202
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1. SIGNAGE DESIGN AND PLACEMENT IS AN EXTREMELY IMPORTANT COMPONENT OF THE PASSENGER EXPERIENCE OF THE RTD TRANSIT SYSTEM. DESIGNERS SHALL WORK THROUGH SCENARIOS OF HOW

4. THE OVERALL LOOK OF RTD SIGNS IS DETERMINED BY THE RTD MARKETING DIVISION WITHIN THE COMMUNICATIONS DEPARTMENT. THE LOOK OF RTD SIGNS SHALL NOT BE ALTERED WITHOUT THE

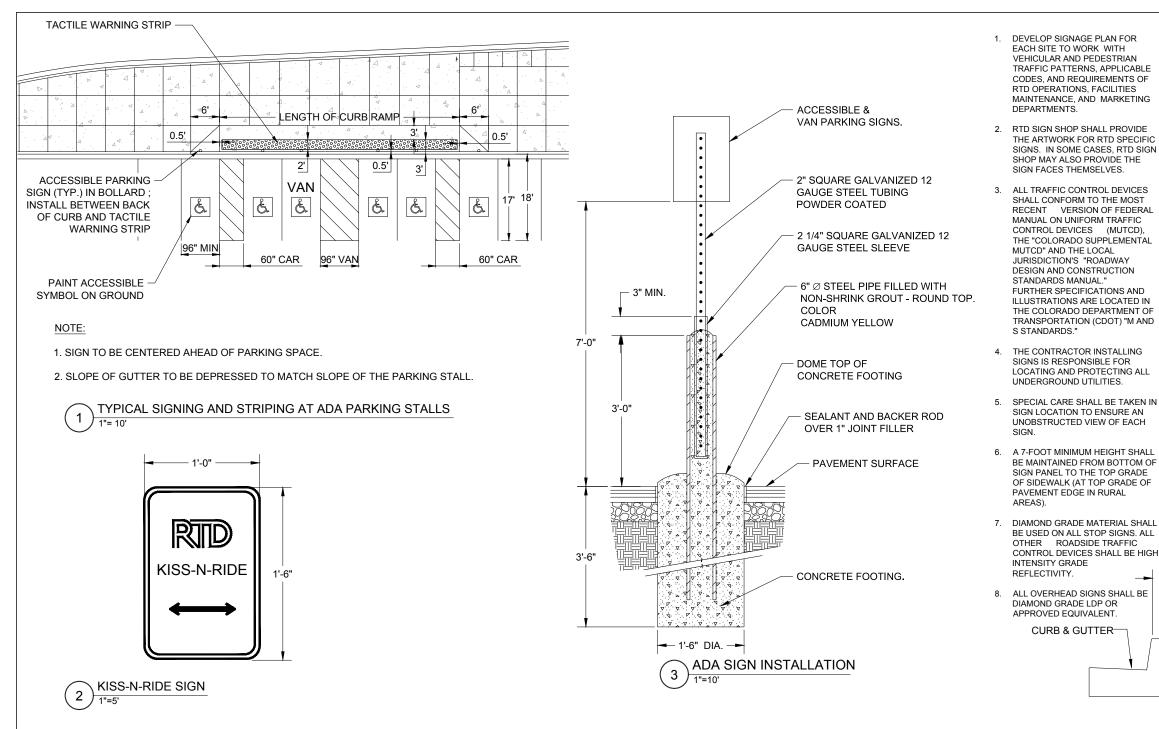
5. RTD HAS A SIGN SHOP THAT CAN FABRICATE AND INSTALL MANY TYPES OF SIGNS. RTD MAY BE ABLE TO SUPPLY THE SIGN FACES. DESIGNER SHALL COORDINATE WITH THE RTD SIGN SHOP, TO WORK OUT WHAT

7. DESIGNERS SHALL DESIGN SUPPORT STRUCTURES TO SUIT PROJECT PREFERENCES AND SITE CONDITIONS.

BUS INFRASTRUCTURE STANDARD DRAWINGS **REGIONAL TRANSPORTATION DISTRICT** 

SHEET REFERENCE NUMBER: SD-SN100

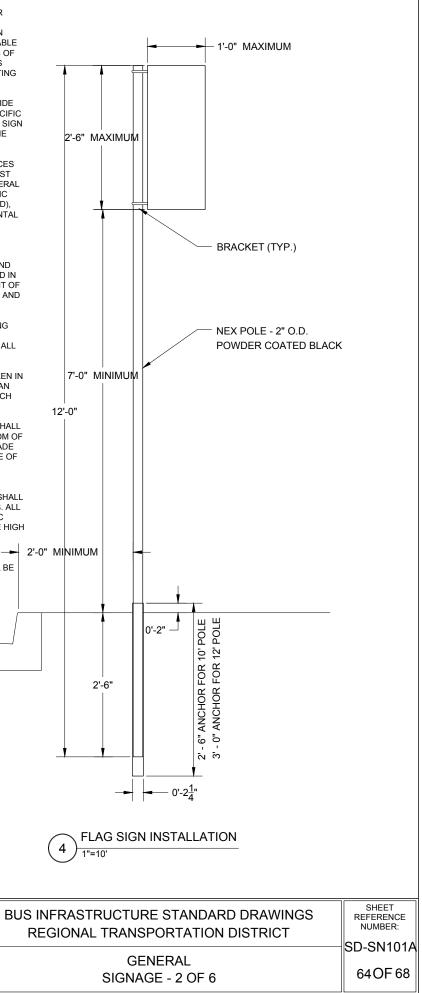
GENERAL SIGNAGE - 1 OF 6



#### NOTE: SIGNAGE SHALL COMPLY WITH MUTCD, AND OTHER APPLICABLE REGULATIONS.

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		DRAWN BY: ##	## DATE: #######	APPROVED BY: HJS	DATE: ######	HORZ. SCALE: VERT. SCALE:	<b>RID</b> DIVISION	
JV		-					REGIONAL TRANSPORTATION DISTRICT 1600 BLAKE STREET	
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2 VARIATIONS DEPICTING DIFFERENT TRAVEL MODES NOT TO SCALE

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1600 BLAKE STREET           DENVER, COLORADO 80202         DENVER, COLORADO 80202				DRAWN BY:	##	DATE: #######	APPROVED BY: HJS	DATE: ######		RID ENGINEERING DIVISION
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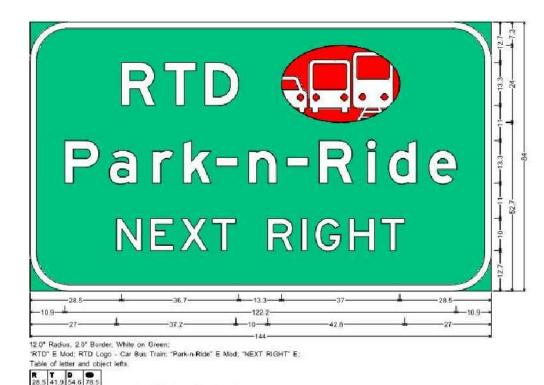
PARK-N-RIDE IDENTIFICATION SIGNAGE:

LARGE SIZE PARK-N-RIDE IDENTIFICATION SIGN SHALL BE 60" X 84".
 SMALL SIZE PARK-N-RIDE IDENTIFICATION SIGN SHALL BE 30" X 42".

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT SHEET REFERENCE NUMBER: SD-SN101B

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GENERAL SIGNAGE - 3 OF 6



	RTD	
P	ark-	n-Ride
	NEXT	RIGHT
-		

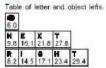
-31.7-	1	 la 13.3 d	-30.7	*	-31.7-
-10.9 <b>-</b> 27-	4	 -122.2 	42,8	+	27
2.0" Radius, 2.0"   RTD" E Mod; RTD Table of letter and R T D 45.0 57.7 61	) Logo - Car Tra object lefts.	144 fod: "NEXT RIGHT" E:			

# NEXT RIGHT

10.9 24.8 38.3 47.9 58.2 58.3 60.2 90.3 105.4 112.0 124.6

H E X T R I G H T 27.0 37.5 46.9 56.9 74.2 84.8 89.1 99.6 109.7

9.8--22.4 -8.2--8.2----25.6-6.0" Radius, 1.0" Border, White on Green: RTD Logo - Car Bus Train; "NEXT" E: "RIGHT" E:



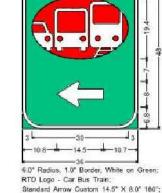
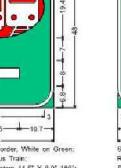
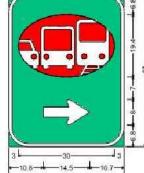


Table of letter and object lefts.

3.0

10.8





6.0" Radius, 1.0" Border, White on Green RTD Logo - Car Bus Train: Standard Arrow Custom 14.5" X 8.0" 0"; Table of letter and object lefts. ● 3.0 10.8



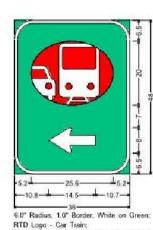
10.9 24.8 38.3 47.9 58.2 68.3 80.2 90.3 105.4 112.0 124.6

N E X T R I G H T 27.0 37.5 46.9 56.9 74.2 84.8 89.1 99.6 109.7

9.8--9.8-----22.4-8.2--42-6.0" Radius, 1.0" Border, White on Green: RTD Logo - Car Train; "NEXT" E;

"RIGHT" E: Table of letter and object lefts. .

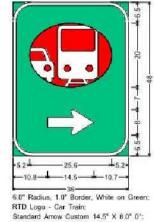




Standard Arrow Custom 14.5" X 8.0" 180":

Table of letter and object lefts.

● 5.2 0.8

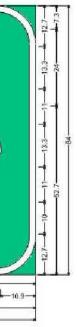






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ntation).pc3 Docl (General AutoCAD PDF 6/10/2016 10:17:03 AM, Dwgs\SD-SN101C_Sgng4of6.dwg, Std Bus K:\CAD Library\StndrdDrwngSet\2015



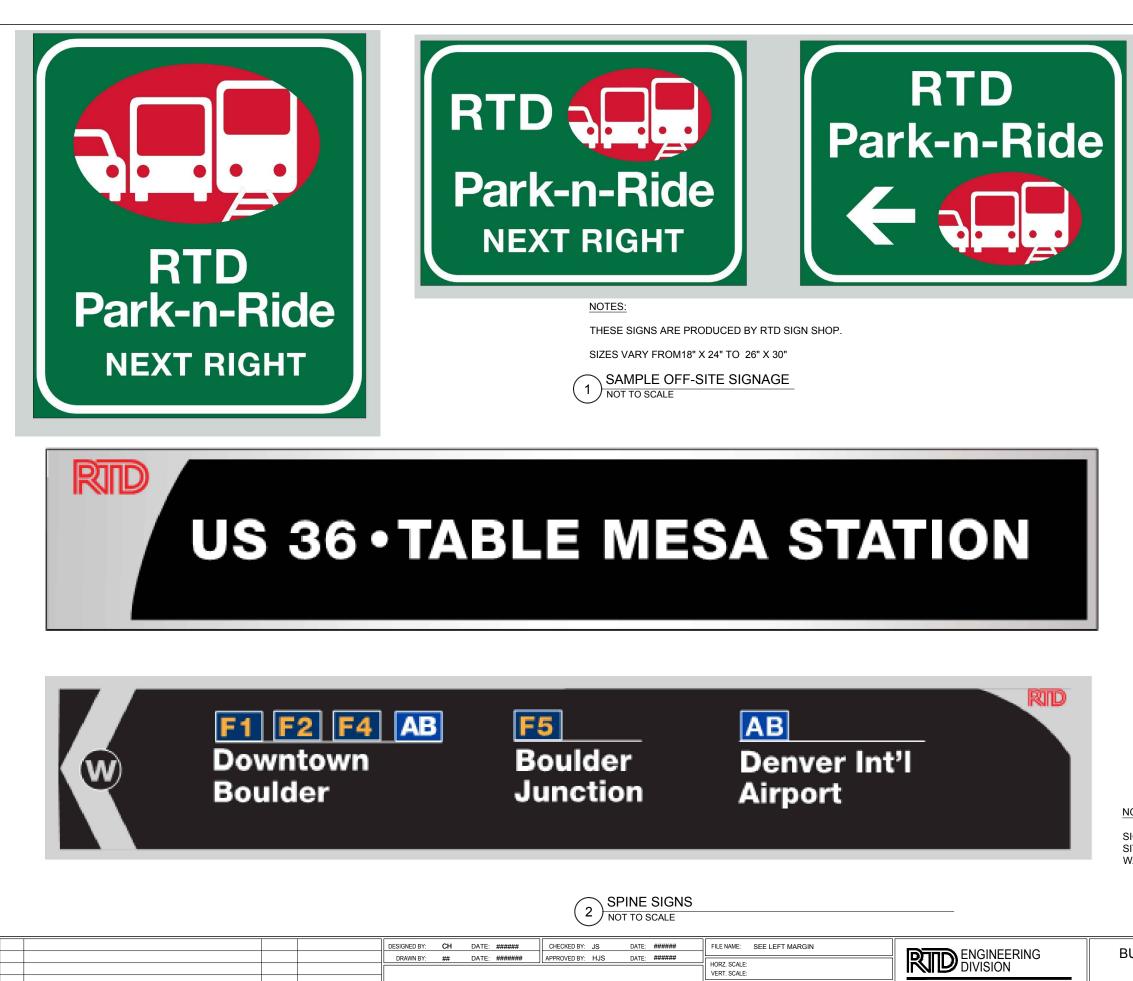
SIGNS IN CDOT ROW NEED APPROVAL BY CDOT.

NOTES:

**BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT** 

SHEET REFERENCE NUMBER: SD-SN101C

GENERAL SIGNAGE - 4 OF 6



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**REGIONAL TRANSPORTATION DISTRICT** 

1600 BLAKE STREET DENVER, COLORADO 80202

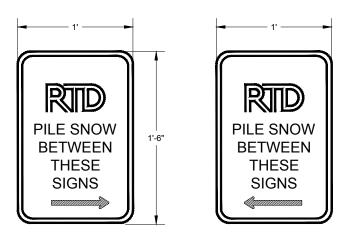
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SIGN SIZES CAN VARY TO ACCOMMODATE SITE SPECIFIC CONDITIONS. SIGN SHOWN WAS DESIGNED AS 108" X 18"

BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT SHEET REFERENCE NUMBER: SD-SN101D

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GENERAL SIGNAGE - 5 OF 6



#### NOTES:

- 1.
- 2. WITHOUT BLOCKING IT.
- 4
- 5.
- TO BE PILED. 6.

SHOW DESIGNATED SNOW STORAGE AREAS ON PARKING AND LANDSCAPING PLANS. SNOW STORAGE AREAS SHALL BE LOCATED SO THAT MELT WATER CAN BE CAPTURED BY INLETS,

3. SNOWMELT WATER SHALL BE DIRECTED AWAY FROM PASSENGER WALKWAYS. LANDSCAPING MAY NEED TO BE MODIFIED TO THRIVE IN SNOWMELT AREAS. SIGNAGE SHALL BE INSTALLED ON SITE, SO MAINTENANCE CREWS UNDERSTAND WHERE SNOW NEEDS

SIGNS SHALL BE INSTALLED SO THE BOTTOM OF THE SIGN PANEL WILL BE VISIBLE WHEN SNOW IS PILED



**BUS INFRASTRUCTURE STANDARD DRAWINGS REGIONAL TRANSPORTATION DISTRICT** 

GENERAL SIGNAGE - 6 OF 6