



ADDENDUM NO. 1

WASHINGTON STATE PARKS AND RECREATION COMMISSION KOPACHUCK STATE PARK DAY USE DEVELOPMENT SW-C1811

DATE: April 16, 2024

ATTENTION TO PLANHOLDERS OF RECORD. The following revisions are hereby made a part of the Contract Documents. Please be sure to acknowledge all Addenda on the Bid Form.

PROJECT MANUAL

ADD: Supplemental Bidder Responsibility Criteria (attached)

SPECIFICATIONS

Section 016001 – SUBSTITUTION REQUEST FORM

ADD: New Section 016001 – SUBSTITUTION REQUEST FORM (attached) in its entirety.

Section 033713 – PNEUMATICALLY APPLIED CONCRETE

1.6 QUALITY ASSURANCE

Revise: C. Qualifications of the Contractor and Superintendent shall meet or exceed the qualifications as specified.

1. Qualifications of Artists/Finishers: Provide artists/finishers skilled in the simulation of natural formation of rock to supervise and perform the application of all work. Submit resume including ~~all~~**five (5)** projects the Artists/Finishers have worked on, photos and detailed descriptions of the work, ~~his/her~~**their** role, the date of the project, and project Owner's current contact information. Qualifications of Artists/Finishers to be submitted with the bid proposal.
2. Dry Mix Nozzleman: Certified as required by ACI 506.3R with a minimum of ~~3000 hours~~**five (5) years' experience** of dry mix installation and ~~be~~ able to demonstrate by test ~~his~~**their** abilities to apply shotcrete as required by the specifications. Submit resume including ~~all~~**five (5)** projects the Nozzleman has worked on, photos and detailed descriptions of the work, ~~his/her~~**their** role, the date of the project, and project Owner's current contact information. Qualifications of Dry Mix Nozzleman to be submitted with the bid proposal.

3. Wet Mix Nozzleman: Certified as required by ACI 506.3R with a minimum of ~~3000 hours~~ **five (5) years' experience** of wet mix installation and **be** able to demonstrate by test ~~his~~**their** abilities to apply shotcrete as required by the specifications. Submit resume including ~~all~~ **five (5)** projects the Nozzleman has worked on, photos and detailed descriptions of the work, ~~his/her~~**their** role, the date of the project, and project Owner's current contact information. Qualifications of Wet Mix Nozzleman to be submitted with the bid proposal.

2.1 SHOTCRETE MIX

Revise: G. Proportion dry mixtures by field test data methods and wet mixtures according to ACI 211.1 and ACI 301, using materials to be used on Project, to provide shotcrete with the following properties:

Table 1 – Concrete Mix

Item:	Wet Mix:	Dry Mix:
28 day compressive strength:	5,000 psi	6,000 psi
Maximum allowed slump:	2"	2"
Maximum aggregate size:	3/8"	3/8"
Minimum silica fume:	68 lb/cyd	80 lb/cyd
Waterproofing:	6 lb/cyd	6 lb/cyd
Synthetic Fibers – Carve Coat:	6-2 lb/cyd	6-2 lb/cyd
Synthetic Fibers – Other than Carve Coat	6 lb/cyd	6 lb/cyd
Total cement:	590-675 lb/cyd	590-675 lb/cyd
Maximum water to cement ratio:	.4	.4
Air entrainment:	6% +- 1%	6% +- 1%

Section 055000 – METAL FABRICATIONS

2.4 GALVANIZING

ADD: **B. Final finish is hot dip galvanizing on mesh panels, any brackets, and park entry and exit gates.**

2.5 POWDER COATING

Revise: A. Final finish is powder coating **over hot dip galvanizing** on **exterior** handrails, ~~mesh panels, any brackets, and entry and exit gates.~~

3.2 EXTERIOR HANDRAILS

Revise: A.1 Jointing of post and rail shall be by mitered and welded joints made by fitting posts to rails, groove welding joints, and grinding smooth. Railing splices shall be butted and reinforced by a tight-fitting interior sleeve not less than 6 inches long. Handrails shall be **powder coating over** hot-dip galvanized after fabrication. No field welds.

3.2 EXTERIOR HANDRAILS

Delete: C.

Section 087100 – DOOR HARDWARE

2.2 MECHANICAL PUSHBUTTON LOCKS

Revise: A. Mechanical pushbutton locks: BHMA Grade heavy-duty mortise lock housing with cast front housing, unified trim, weatherproof, and fixed ADA compliant levers, panic-free inside lever. Vandal resistant, solid metal numeric keypad 12 push buttons. Satin chrome 26D finish. Provide Best core.

Mfr.: Trilogy T2 DL2700DB Mortise weatherproof commercial lock

3.3 DOOR HARDWARE GROUPS

Revise: HW 3

3	EA	HINGE	5BB1 4.5x4.5	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050L 06A	626	SCH
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICKPLATE	8400 8"x2" LDW B-C3	630	IVE
1	EA	WALL STOP	WS 401 CVX	626	IVE
1	EA	GASKETING	188S-Bk	S-Bk	ZER

NOTE: AT DOOR 101A, PROVIDE MECHANICAL PUSHBUTTON LOCK TRILOGY T2 DL2700DB MORTISE

Revise: HW 4

3	EA	HINGE	5BB1 4.5x4.5	652	IVE
1	EA	STOREROOM LOCK	L9080L 06A	626	SCH
1	EA	MORTISE CYLINDER	1E74 C265 RP3	626	BES
1	EA	KICKPLATE	8400 10"x2" LDW B-CS	630	IVE
1	EA	SURFACE CLOSER	4111 SCUSH	689 689	IVE
3	EA	SILENCER	SR64	GRY	IVE

Revise: HW 5

3	EA	HINGE	5BB1 4.5x4.5	652	IVE
1	EA	PANIC HARDWARE	35A-L-06	626	VON
1	EA	RIM CYLINDER	1E72 S2 RP3	626	BES
1	EA	SURFACE CLOSER	4021	689	LCN
1	EA	ARMOR PLATE	8400 30"x2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	MECH. PUSHBUTTON LOCK	T2 DL2700	MORTISE	TRIOLOGY

Revise: HW 7

2	SET	OFFSET PIVOT	147x JTMS	613	RIXSON
2	EA	INTERMEDIATE PIVOT	M19xJTMS	613	RIXSON
2	EA	EXIT DEVICE	ED5800xF457 M54 M5236x84 910 ET	613	CORBIN
2	EA	CYLINDER	1080-114-A01	613	CORBIN
2	EA	CYLINDER	3080-178-6	613	CORBIN
1	EA	PULL	CO-9	TBD	KAWNEER
2	EA	CLOSER	DC2220 A3 M54 M72	689	CORBIN
1	EA	MECH. PUSHBUTTON LOCK	T2 DL2700	MORTISE	TRIOLOGY
1	EA	THRESHOLD	655A-MSLA-10	A	ZER
2	EA	DOOR SWEEP	8198AA	AA	ZER

GASKET BY DOOR SUPPLIER

Revise: HW 15

4	EA	HINGE	5BB1 4.5x4 NRP	630	IVE
1	EA	RIM CYLINDER	1E72 S2 RP3	626	BES
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	ARMOR PLATE	8400 30"x2" LDW B-CS	630	IVE
1	EA	GASKETING	188S-BK	S-Bk	ZER
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	655A-MSLA-10	A	ZER
1	EA	RAIN DRIP	142A	A	ZER
1	EA	EXIT DEVICE	L9050L 06 A	626	SCH

Section 088000 – GLAZING

2.3 MATERIALS

Revise: C. Low-E Coated Vision Glass:

1. Vision Glazing (South & East Exposure)- (Max U-.27, SHGC =.30, Shading Coefficient=.34, Visible Light=.71%): 1 inch unit PPG Solarban 72 Starphire, composed of ¼ inch Low E coating on # 2 surface outer light, ½ inch argon filled space, and ¼ inch **ultra** clear float on inner lite. See drawings for window types indicating tempered locations.

Section 323915 – SITE FURNISHINGS

1.2 SUMMARY

ADD: A. This Section includes the following site and street furnishings:

- 11. Vertical Stepping Logs**
- 12. Flush Log Rounds**

ADD 2.12 VERTICAL STEPPING LOGS

ADD: **A. Description:**

- 1. Vertical Stepping Logs in the play area: Clean-peeled wood logs 10” to 36” in diameter complying with ASTM D3200, with at least 80 percent of inner bark removed and with knots and limbs cut flush with the surface. Approx. overall length of Vertical Stepping Logs = 36”.**
- 2. Quality: Suitable for exposed exterior use with transparent finish.**
- 3. Eased / Chamfered Ends: Approx. 1” top and bottom.**
- 4. Species: Yellow Cedar or White Oak.**

ADD: **B. Installation: As shown on contract drawings.**

ADD: **C. Quantity: See contract drawings.**

ADD 2.13 FLUSH LOG ROUNDS

ADD: A. Description:

1. Flush Log Rounds: Clean-peeled wood logs 12” to 36” in diameter complying with ASTM D3200, with at least 80 percent of inner bark removed and with knots and limbs cut flush with the surface. Approx. depth of Flush Log Rounds = 6”.
2. Quality: Suitable for exposed exterior use with transparent finish.
3. Eased / Chamfered Ends: Approx. ½” top and bottom.
4. Species: Yellow Cedar or White Oak.

ADD: B. Installation: As shown on contract drawings.

ADD: C. Quantity: See contract drawings.

2.6 BIKE RACK

Revise: A. Description:

1. 2” (minimum) Schedule 40 conforming to ASTM A53, ~~75~~ loop wave style, ~~97~~ bike-capacity.
2. Coating: Hot dip galvanized to standard ASTM A123, ASTM A123M, 3 to 4 mils thick polyester or polyester TGIC powder, 4 mils thick.
3. Pipe Collar: Steel one piece, powder coated to match pipe.
4. Tournesol Siteworks LP-1920 Seven-Loop Rack – 86” w/9 Bike Capacity, Embed mount~~Fairweather BR1.75 Loop~~ or approved equal.

Section 335100 – EXTERIOR PROPANE PIPE AND STORAGE SYSTEM

ADD: New Section 335100 – EXTERIOR PROPANE PIPE AND STORAGE SYSTEM (attached) in its entirety.

DRAWINGS

Sheet C5.16: **Revise:** Callouts and notes on Detail 160 as shown clouded on Addendum Sketch ADD-1.01 attached.

Sheet C5.19: **ADD:** NEW detail 197 – Vertical Stepping Logs and Flush Log Rounds as shown clouded on Addendum Sketch ADD-1.02 attached.

Sheet C5.22: **Revise:** Detail 222 – Separate Boulder Section as shown clouded on Addendum Sketch ADD-1.03 attached.

Sheet C5.22: **Revise:** Detail 223 – Typical Feature Section as shown clouded on Addendum Sketch ADD-1.04 attached.

BIDDER'S QUESTIONS

Question (3/27/24 via email)

On the specs for this job – looking through for domestic requirements and I see that “American Iron and Steel Institute” is mentioned in the abbreviations and names. Does this project need to comply with AISI?

Response

No, this project does not need to comply with AISI. While AISI was one of the standard definitions listed in Section 014200 – REFERENCES, Part 1.4 A. of the specifications, compliance with AISI is not listed in any other location within the Specifications or Plans.

Question (3/28/24 via email)

Regarding wood doors and finish hardware: Hardware set #5 has both a Rim Exit Device w/Lever Trim (35A-L-06) and a Mortise Pushbutton Lock (DL2700) listed. They can't both be used on one door, please advise which is correct?

Response

The Exit Device w/Lever Trim is correct. Remove the Mortise Pushbutton Lock. See revisions to Part 3.3 DOOR HARDWARE GROUPS, Hardware set #5 (HW 5) in Section 087100 – DOOR HARDWARE of the specifications as noted above.

Question (3/28/24 via email)

Regarding wood doors and finish hardware: Hardware set #15 has no Lock/Exit Device Scheduled. Should one be added?

Response

Yes, add 1 EA. EXIT DEVICE L9050L 06 A 626 SCH. See revisions to Part 3.3 DOOR HARDWARE GROUPS, Hardware set #15 (HW 15) in Section 087100 – DOOR HARDWARE of the specifications as noted above.

Question (3/28/24 via email)

Regarding wood doors and finish hardware: Closers are listed in spec with both 626 and 689 finishes. Please confirm which is preferred?

Response

Aluminum 689 finish for Closers is acceptable throughout. See revisions to Part 3.3 DOOR HARDWARE GROUPS, Hardware set #4 (HW 4) in Section 087100 – DOOR HARDWARE of the specifications as noted above.

Question (3/28/24 via email)

Regarding wood doors and finish hardware: Three issues for Hardware set #7 – a. ED5000 is not a valid model #, it is just the series. My guess since it's a pair without a mullion that you would want either a Surface Vertical Rod Device (ED5400) or Concealed Vertical Rod Device (ED5800). I would also need to know the Trim/Function (910ET, 950ET, 955ET, 957ET, 959ET)?

Response

Exit Device to be Concealed Vertical Rod Device (ED5800) with 910 ET trim/function. See revisions to Part 3.3 DOOR HARDWARE GROUPS, Hardware set #7 (HW 7) in Section 087100 – DOOR HARDWARE of the specifications as noted above.

Question (3/28/24 via email)

Regarding wood doors and finish hardware: Three issues for Hardware set #7 – b. Hardware set #7 has both an Exit Device (ED5000) and Mortise Pushbutton Lock (DL2700) listed. They can't both be used on one door, please advise which is correct?

Response

Exit Device is correct, Mortise Pushbutton Lock is to be deleted. See revisions to Part 3.3 DOOR HARDWARE GROUPS, Hardware set #7 (HW 7) in Section 087100 – DOOR HARDWARE of the specifications as noted above.

Question (3/28/24 via email)

Regarding wood doors and finish hardware: Three issues for Hardware set #7 – c. DC2220 is not a valid part # for a Closer. Ok to provide the LCN 4111 EDA Closer instead?

Response

See attached “Corbin Russwin Door Closers DC2000 Series” product data for the DC2220 Closer.

Question (3/28/24 via email)

Regarding wood doors and finish hardware: Several hardware sets have the “DL2700 Mortise Pushbutton Lock” but the DL2700 is a Cylindrical Pushbutton Lock, not Mortise.

Response

Mortise Pushbutton Locks to be DL2700DB. See revisions to Part 2.2 MECHANICAL PUSHBUTTON LOCKS, in Section 087100 – DOOR HARDWARE of the specifications as noted above.

Question (3/28/24 via email)

Regarding wood doors and finish hardware: Douglas Fir is very soft wood and easily damaged. I do not recommend it's use in a commercial space and would instead recommend Cherry. Please advise if this is acceptable. If Douglas Fir is still desired it is not available in Plain Sliced cut, only Quarter Sliced.

Response

Douglas Fir, plain sliced, book matched, veneer grade as specified by quality standard is desired. If plain sliced is unavailable, a formal substitution request per Section 5.1 E. of the Instructions to Bidders and Section 016000 – PRODUCT REQUIREMENTS of the specifications may be submitted after contract award.

Question (4/4/24 via email)

Did not find a Sub Request Form in the spec? Is there a specific form that should be used?

Response

Substitutions are not accepted during bidding. Substitutions may be considered after contract award per Section 5.1 E. of the Instructions to Bidders and Section 016000 – PRODUCT REQUIREMENTS of the specifications. A new Section 016001 – SUBSTITUTION REQUEST FORM has been added to the specifications as noted above.

Question (4/4/24 via email)

Regarding IGU makeup on the glass, I noticed an odd combo of ultra clear, and clear. Is this intentional or a mistake? Usually when a client wants ultra clear glass, they do not want the normal green tint of regular glass whatsoever and we use ultra clear both on the inboard and outboard lites.

Response

Ultra clear is to be used on both the inboard and outboard lites. See revisions to part 2.3 MATERIALS in Section 088000 – GLAZING of the specifications as noted above.

Question (4/5/24 via email)

At first glance through the drawings, we don't see any details on the exposed logs around the play area. There are indications on Plan Volume 1 sheets C5.16 and C5.17, but no detail callouts or specification section. Drawings seem to indicate there are differences in material between the "logs" so more details would be needed to come up with pricing. There are also callouts for the circles with letter indicators. We don't have any note to identify what the letters "M", "F", etc, are meant to signify.

Response

Additional details on the exposed logs around the play area are included on Addendum Sketch ADD-1.02 (attached) as noted above. The circles with letter indicators will be deleted and replaced with other materials as shown on Addendum Sketch ADD-1.01 attached.

Question (4/9/24 via email)

Can you tell me what size the bike rack is? It says a 5 bend in the spec but the drawing it shows a 7 bend for 9 bikes. Also, the spec is saying hot dip galvanized and powder coating. So, if you know that they want a double finish please advise.

Response

The bike rack is to be a 7-bend Loop Style bike rack with a 9-bike capacity. Finish is to be powder coated, galvanized pipe. See revisions to 2.6 BIKE RACK in Section 323915 – SITE FURNISHINGS of the specifications as noted above.

Question (4/11/24 via email)

Are the railings, mesh panels, etc. hot-dip galvanized or powder coated or both?

Response

Final finish on the exterior handrails is to be powder coating over hot-dip galvanizing. Final finish on the mesh panels, any brackets, and park entry and exit gates are to be hot-dip galvanizing only. See revisions to Part 2.4 GALVANIZING and Part 2.5 POWDER COATING in Section 055000 – METAL FABRICATIONS of the specifications as noted above.

Question (4/15/24 via email)

Regarding roller shades in the Welcome Center: Sheet A2.0 call out Roller Shades at The Window yet the specs call out integral roller shades. Please confirm if interior windows E and D require integral roller shades or attached roller shades?

Response

The specification calls out integral horizontal blinds for the insulated glass assemblies. Since windows E & D are interior, these windows are not insulated glass assemblies and the attached roller shade would be appropriate for windows E & D. Roller shade specifications are included in Section 122413 – ROLLER WINDOW SHADES.

Question (4/15/24 via email)

Do we have a date for all questions to be in by?

Response

It was announced at the Pre-Bid Meeting that all questions need to be in seven (7) days prior to scheduled Bid due date. Bidder's questions will be accepted until 5:00pm on Thursday, April 18, 2024.

Question (4/15/24 via email)

Do we have a date for all RFI's or alternates to be in by?

Response

It was announced at the Pre-Bid Meeting that all questions (RFI's) need to be in seven (7) days prior to scheduled Bid due date. Bidder's questions will be accepted until 5:00pm on Thursday, April 18, 2024. Alternates (Substitutions) are not accepted during bidding. Substitutions may be considered after contract award per Section 5.1 E. of the Instructions to Bidders and Section 016000 – PRODUCT REQUIREMENTS of the specifications.

Question (4/15/24 via email)

Alternate fabrication approval of water feature. Would it be acceptable to use GFRC (Glass Fiber Reinforced Concrete) and Aquafin IC admix rather than Xypex C-1000 for water proofing?

Response

Alternates (Substitutions) are not accepted during bidding. Substitutions may be considered after contract award per Section 5.1 E. of the Instructions to Bidders and Section 016000 – PRODUCT REQUIREMENTS of the specifications.

Question (4/15/24 via email)

What is the anticipated schedule for the project? Any phases?

Response

The anticipated schedule for the project is 365 calendar days from the Notice to Proceed (NTP). The project is intended to be constructed in a single phase consisting of the Base Bid Work and any awarded Alternates.

Question (4/15/24 via email)

Elevation A/A3.0 depicts storefront sections divided by vertical and horizontal elements. Could you kindly confirm if these are intended to be Aluminum Storefront components rather than grids within glass?

Response

Some sections are divided by storefront components and others are divided by grids within the glass. See sheet A5.0 for clarification.

Question (4/15/24 via email)

Please confirm if the wood stairs at the beach access is a part of the base bid?

Response

Wood deck and stairs at the Beach Access is part of the Base Bid.

Question (4/15/24 via email)

Is Incised pressure-treated material acceptable for the joists, columns, and posts at the decks, ramps, and stairs?

Response

Alternates (Substitutions) are not accepted during bidding. Substitutions may be considered after contract award per Section 5.1 E. of the Instructions to Bidders and Section 016000 – PRODUCT REQUIREMENTS of the specifications.

Question (4/15/24 via email)

Please confirm if the Kiosk shown on C3.01, south of 56th St, is a part of bid alternate #A4?

Response

Alternate #A4 includes all work related to the construction of the trail/pathway and small parking lot shown along the south side of 56th St NW, which includes the Kiosk located near the small parking lot.

PRE-BID MEETING Q&A AND ATTENDANCE LIST

Pre-Bid attendance list (attached)

BIDDERS QUESTIONS AND ANSWERS

Question

When is the project start date?

Response

Notice to Proceed will depend on the timeframe of the contract award. Park is scheduled to be shut down for 1-year beginning on June 3, 2024.

Question

When will the boundary line be set for tree removal and is there a total quantity of trees to be removed?

Response

The boundary line for tree removal is noted on the demo plans. The specific surveyed boundary line is to be established by the contractor. Tree quantity to be removed are noted on the demo plans.

Question

Where is the electrical power feed coming from?

Response

Existing primary power location was described on-site. The existing power feed comes from an existing power vault at the existing park "exit" and will be intercepted where shown on the plans.

Question

Will the Pre-Bid Meeting Sign-In sheet be included in the Addendum?

Response

The Pre-Bid Meeting sign-in sheet will be typed up and then posted to Builder's Exchange.

Question

Were the specific trees identified that were to be salvaged for the Alternate work items?

Response

No, the specific trees that could be salvaged for use in the Alternate work are up to the contractor to identify based on which trees, or portions thereof meet the requirements for re-use as specified.

Question

Are the salvage trees the driftwood at the beach area?

Response

No, any salvaged trees for potential re-use in the Alternate work items are the existing trees in the upland (Day Use area) that are specifically called out for removal on the demo plans.

Question

Will the park closure be extended beyond the one-year currently scheduled if construction runs long?

Response

The park is currently scheduled to close for one year beginning June 3, 2024. Park closure may be extended beyond one year depending on construction progress evaluation at that time.

Question

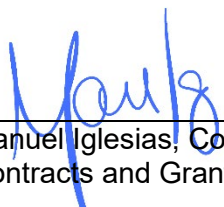
What is to be done with the ecology blocks?

Response

Ecology blocks are noted on the demo plans as “Salvage as Directed”.

Attachments:

- Supplemental Bidder Responsibility Criteria (10 pages)
- Section 016001 Substitution Request Form (2 pages)
- Corbin Russwin Door Closers DC2000 Series (20 pages)
- Section 335100 Exterior Propane Pipe and Storage System (3 pages)
- Addendum Sketch ADD-1.01 (1 page)
- Addendum Sketch ADD-1.02 (1 page)
- Addendum Sketch ADD-1.03 (1 page)
- Addendum Sketch ADD-1.04 (1 page)
- Prebid Attendance list (3 pages)



Manuel Iglesias, Contracts Manager
Contracts and Grants Program

04/16/24

Date

END OF ADDENDUM NO. 1

KOPACHUCK STATE PARK
DAY USE DEVELOPMENT

SUPPLEMENTAL BIDDER RESPONSIBILITY CRITERIA
WITH INCLUSION PLAN AND APPRENTICESHIP REQUIREMENTS

Low Responsible Bidder

It is the intent of the Owner to award a contract to the lowest responsive and responsible Bidder. In determining the Bidder's responsibility, the Owner shall consider an overall accounting of the items listed below. Potential Bidders may request the Owner modify the Bidder responsibility criteria. The request must be in writing and submitted at least 7 days prior to the bid opening.

The apparent low bidder shall submit the required information within **two (2)** business days of receiving request from Owner. This request may be made in the form of a telephone call or email message. The required information shall be provided on the referenced forms bound herein. Electronic copies may be made available upon request. Failure to submit such information to the satisfaction of the Owner within the time provided may render the Bidder as not responsible.

1.1 REQUIRED INFORMATION/CRITERIA

- A. For the purposes of the Supplemental Bidder Responsibility evaluation process, the scope of this project generally involves:
- Removing an old restroom and building a new Day Use Building, Welcome Center, and related structures like wood decks, ramps, and an amphitheater.
 - Constructing concrete ADA-accessible paths, picnic areas, a play area with a tower and faux water feature, and a park entry sign.
 - Paving a one-way parking lot with 98 stalls and establishing a connector trail along 56th St NW.
 - Site work involving clearing, grading, installing sewer and water systems, electrical systems, including CCTV, and landscaping.
- B. Experience Of Contractor On Projects Of Similar Size And Complexity: Contractor is required to have successfully completed at least **three (3)** projects of similar type, size and complexity to this project, each with a contract amount of at least **\$1,000,000**, within the last **seven (7)** years.
- C. List of Completed Projects (Use Form 1, Contractor Experience Detail): Provide a list of all the construction contracts **\$1,000,000** and above your firm has completed within the past **three (3)** years, giving the name of the project; name, address, and phone numbers of Owner and architect representatives; final contract amount; date of completion; and percentage of the cost of the work performed with your firm's own forces. This information will be used for reference reviews.

2.1 EXPERIENCE OF KEY PERSONNEL

- A. Experience of Project Manager (Use Form 2, Résumé of Key Personnel for Proposed Contract): Submit resume and references for the proposed Project Manager. This person shall have managed, as lead project manager, a minimum of **three (3)** projects of similar type, size and complexity to this project, and successfully completed those projects within the last **ten (10)** years.
- B. Experience of Superintendent (Use Form 2, Résumé of Key Personnel for Proposed Contract): Submit resume and references for the proposed project Superintendent. This person shall have performed as the lead Superintendent for a minimum of **three (3)** projects of similar type, size and complexity to this project, and successfully completed those projects within the last **ten (10)** years.

KOPACHUCK STATE PARK
DAY USE DEVELOPMENT

3.1 DIVERSE BUSINESS INCLUSION PLAN (USE FORM 3)

- A. Washington state goals are: Minority Business Enterprise (MBE) 10%, Women’s Business Enterprise (WBE) 6%, WA Small Business 5% and WA Veterans 5%. The apparent low bidder is required to submit a Diverse Businesses Inclusion Plan for all projects with a Maximum Allowable Construction Cost (MACC) over \$1M.

The Diverse Business Inclusion plan shall include the apparent low bidder’s anticipated participation goals, the subcontractors anticipated to be used on this project, a list of diverse businesses near the project, the project’s diverse expert, and past performance using diverse businesses.

4.1 APPRENTICESHIP (USE FORMS 1 & 4)

- A. For each public works project with an apprenticeship utilization goal that was completed by the Bidder within three (3) years of the bid submittal date for this project, the Bidder shall submit the following:

- A list of such projects;
- The owner and contact information for the owner’s representative;
- The apprenticeship utilization percentage goal for the project;
- The actual utilization percentage by the Bidder; and
- An explanation of any extenuating circumstances that contributed to the Bidder not meeting the goals.

(Use Form 4 for projects not listed on Form 1)

The Owner may contact previous owners to validate the information provided by the Bidder and shall consider whether the goals were mandatory or voluntary, and the validity of any explanation of extenuating circumstances.

5.1 REFERENCES FROM OWNERS AND ARCHITECTS FOR PREVIOUS PROJECTS
(OWNER USES FORM 5, REFERENCE EVALUATION QUESTIONNAIRE)

- A. The Owner may check references by contacting owners and architects of the bidder’s previous projects regarding the bidder’s performance and that of key staff. A reference score sheet will be utilized and the rating shall be satisfactory or better on a five-category scale with “satisfactory” at mid-scale.

6.1 OVERALL SCORING (FORM 6, RESPONSIBILITY CRITERIA EVALUATION SCORE SHEET)

- A. The Owner will use this form to complete and document the overall evaluation process.

END OF SECTION

Kopachuck State Park Day Use Development

Supplemental Bidder Responsibility Form 1 - Contractor Experience Detail

Contractor Information:		
Contractor Legal Name:		Contact Person and their Position/Title:
Project Superintendent:		Project Manager:
Physical Address (Physical and Mailing Addresses are the Same <input type="checkbox"/>):		Mailing Address:
Telephone:	Cell Phone:	Email Address:

Project Information: Is this project relevant to the proposed project? Yes <input type="checkbox"/> No <input type="checkbox"/>	
Project:	Location:
Project Description:	As Prime: <input type="checkbox"/> As Sub: <input type="checkbox"/>
Original Contract Amount: \$ Final Contract Amount: \$	Original Contract Days: Final Contract Days:

Owner Information:	
Owner's Business Name:	Contact Person and their Position/Title:
Mailing Address :	Telephone: Email Address:

Architect/Engineering Information:	
Owner's Business Name:	Contact Person and their Position/Title:
Mailing Address :	Telephone: Email Address:

**Kopachuck State Park
Day Use Development
Supplemental Bidder Responsibility
Form 2 - Resume of Key Personnel**

Name:	Role in this Contract:	Years Experience	
		Total	With Current Firm
Firm Name and Location (City and State):			
Training/Education/Specialization:			
Years of Experience in the Proposed Role:			

RELEVANT PROJECTS			
Project Title:		Year Completed	
Project Owner:			
Brief Description (Brief scope, size, cost, etc.) and specific role:		Check if project performed with current firm. <input type="checkbox"/> If performed with different firm list the firm name	
Reference Name & Contact Information:			
Project Owner:		Project Architect:	
Name:		Name:	
Phone:		Phone:	
E-mail		E-mail:	

RELEVANT PROJECTS			
Project Title:		Year Completed	
Project Owner:			
Brief Description (Brief scope, size, cost, etc.) and specific role:		Check if project performed with current firm. <input type="checkbox"/> If performed with different firm list the firm name	
Reference Name & Contact Information:			
Project Owner:		Project Architect:	
Name:		Name:	
Phone:		Phone:	
E-mail		E-mail:	

RELEVANT PROJECTS			
Project Title:		Year Completed	
Project Owner:			
Brief Description (Brief scope, size, cost, etc.) and specific role:		Check if project performed with current firm. <input type="checkbox"/> If performed with different firm list the firm Name	
Reference Name & Contact Information:			
Project Owner:		Project Architect:	
Name:		Name:	
Phone:		Phone:	
E-mail		E-mail:	

**Kopachuck State Park
Day Use Development**

RELEVANT PROJECTS		
Project Title:		Year Completed
Project Owner:		
Brief Description (Brief scope, size, cost, etc.) and specific role:		Check if project performed with current firm. <input type="checkbox"/> If performed with different firm list the firm Name
Reference Name & Contact Information:		
Project Owner:		Project Architect:
Name:		Name:
Phone:		Phone:
E-mail		E-mail:

RELEVANT PROJECTS		
Project Title:		Year Completed
Project Owner:		
Brief Description (Brief scope, size, cost, etc.) and specific role:		Check if project performed with current firm. <input type="checkbox"/> If performed with different firm list the firm Name
Reference Name & Contact Information:		
Project Owner:		Project Architect:
Name:		Name:
Phone:		Phone:
E-mail		E-mail:

RELEVANT PROJECTS		
Project Title:		Year Completed
Project Owner:		
Brief Description (Brief scope, size, cost, etc.) and specific role:		Check if project performed with current firm. <input type="checkbox"/> If performed with different firm list the firm Name
Reference Name & Contact Information:		
Project Owner:		Project Architect:
Name:		Name:
Phone:		Phone:
E-mail		E-mail:

**Kopachuck State Park
Day Use Development**

**Supplemental Bidder Responsibility
Form 3 - Prime Contractor Diverse Business Inclusion Plan**

Prime Contractor Name: _____

For the purposes of this form, Washington State-certified diverse businesses are defined as follows:

- *Minority Business Enterprise (MBE)*, *Women’s Business Enterprise (WBE)*, or combination of the two. Certified by the Office of Minority and Women’s Business Enterprises (OMWBE): <http://omwbe.wa.gov/>
- *Veteran-owned Business*. Certified by the Department of Veteran’s Affairs (DVA): <http://dva.wa.gov/>
- *Small Business* (includes Mini and Micro businesses). Certified through the Washington Electronic Business Solution (WEBS): <https://fortress.wa.gov/ga/webs/home.html>

Anticipated Certified Diverse Business Participation Goals

Subcontracting means direct performance of commercially useful work through subcontracting as part of the proposed project team. Of the total contract work, what are the diverse business participation goals proposed for subcontracting on your team? Please only include the above-listed Washington State certification types in your “Contractor-defined Anticipated Percent of Contract Amount (Goals)” estimate. Zero percent (0%) is not a goal.

Anticipated Certified Diverse Business Participation Goals	Washington State Goals	Contractor-defined Anticipated Percent of Contract Amount (Goals)
Minority-owned business (MBE)	10%	%
Women-owned business (WBE)	6%	%
Veteran-owned business (DVA)	5%	%
Small business	5%	%

Subcontracting Team

List the names of the diverse businesses you anticipate using on this project. Generally describe the work you expect the diverse business to perform and identify the percent of total contract value intended for each diverse business. Please include the above-listed Washington State certification types. *If necessary, add more rows below.*

Name of Diverse Business	Specify Diverse Business Certification (circle one or more)	Describe Trade or Task	Anticipated Percent of Contract Amount
	MBE, WBE, DVA, Small		%
	MBE, WBE, DVA, Small		%
	MBE, WBE, DVA, Small		%
	MBE, WBE, DVA, Small		%
	MBE, WBE, DVA, Small		%

Attach a list of diverse businesses near the project location to this form:

1. Go to <https://omwbe.wa.gov/directory-certified-firms>
2. Click on “OMWBE DIRECTORY”
3. Click on “Search Certified Firm Directory”
4. Select MBE, MWBE, SBE, and WBE certifications.
5. Enter a City, Zip Code, or County near the project site address and then press “Search” at the bottom of the page. If you do not have many results, please expand your search to include nearby locations.
6. Print and attach the results to this form with your submittal

Diverse Expert:

Diverse Expert responsibilities would typically include, but are not limited to:

- Outreach to qualified diverse businesses.
- Submit and discuss updates on a regular basis to the state project manager regarding Diverse Business utilization and progress.

Kopachuck State Park Day Use Development

- Ongoing outreach to diverse businesses for required contract work, including any changes in scope.
- Assist diverse businesses with successful contract performance.

A qualified Diverse Expert brings knowledge of the identity, capabilities and capacities of diverse business subcontractors and suppliers; experience recruiting and working with diverse businesses for construction; and assisting diverse businesses to develop working relationships with contractors.

Identify the person within your team to manage your diverse inclusion responsibility.

Diverse Expert Name: _____

Diverse Expert Contact Information: _____

Diverse Expert Firm (if another firm is managing participation): _____

Past Performance

Please select **five (5) of your projects** with Washington State-certified diverse business participation (MBE, WBE, DVA, and/or Small/Mini/Micro) and list them below **for the last five (5) years**. If you do not have any projects that tracked or reported diverse business participation, you may leave this section blank. In that case, please attach an additional sheet with explanation.

You may have projects with diverse business participation for an organization or entity that required *different* diverse business categories (including self-certification). If so, please attach a sheet with the same column data and information, but include percentages for the categories that were tracked during the project.

Contract Name	Contracting Agency or Entity	Contract Amount	Year	Percent of Contract Amount	
				Minority-owned business:	%
				Women-owned business:	%
				Veteran-owned business:	%
				Small/mini/micro business:	%
Contract Name	Contracting Agency or Entity	Contract Amount	Year	Percent of Contract Amount	
		\$		Minority-owned business:	%
				Women-owned business:	%
				Veteran-owned business:	%
				Small/mini/micro business:	%
Contract Name	Contracting Agency or Entity	Contract Amount	Year	Percent of Contract Amount	
		\$		Minority-owned business:	%
				Women-owned business:	%
				Veteran-owned business:	%
				Small/mini/micro business:	%
Contract Name	Contracting Agency or Entity	Contract Amount	Year	Percent of Contract Amount	
		\$		Minority-owned business:	%
				Women-owned business:	%
				Veteran-owned business:	%
				Small/mini/micro business:	%
Contract Name	Contracting Agency or Entity	Contract Amount	Year	Percent of Contract Amount	
		\$		Minority-owned business:	%
				Women-owned business:	%
				Veteran-owned business:	%
				Small/mini/micro business:	%

Kopachuck State Park Day Use Development

Supplemental Bidder Responsibility Form 4 – Apprenticeship Utilization

Contractor Information:		
Contractor Legal Name:		Contact Person and their Position/Title:
Project Superintendent:		Project Manager:
Physical Address (Physical and Mailing Addresses are the Same <input type="checkbox"/>):		Mailing Address:
Telephone:	Cell Phone:	Email Address:

Project Information: Is this project relevant to the proposed project? Yes <input type="checkbox"/> No <input type="checkbox"/>	
Project:	Location:
Project Description:	As Prime: <input type="checkbox"/> As Sub: <input type="checkbox"/>
Original Contract Amount: \$ Final Contract Amount: \$	Original Contract Days: Final Contract Days:

Owner Information:	
Owner's Business Name:	Contact Person and their Position/Title:
Mailing Address :	Telephone: Email Address:

Architect/Engineering Information:	
Owner's Business Name:	Contact Person and their Position/Title:
Mailing Address :	Telephone: Email Address:

1. Did this project require Apprenticeship Participation? Yes No (If NO, stop here)
2. If yes, what was the Apprenticeship percentage? _____ %
3. What was the actual percentage achieved? _____ %
4. Was the apprenticeship requirement met? Yes No
5. If NO to question 4, explain Why.

**Kopachuck State Park
Day Use Development**

**Supplemental Bidder Responsibility
Form 5 - Reference Evaluation Questionnaire**

Evaluated Firm :
Project Manager:
Superintendent:
Evaluated Project Name:

- Prime
 Subcontractor

Approx. Start Date	Approx. End Date	Approx. Final Project Cost

PERFORMANCE EVALUATION

Rating Criteria - Rate on a scale of 1 to 5

- **5 = Superior** based on performance (would hire this firm/individual again)
- **4 = More than Satisfactory**
- **3 = Satisfactory** based on performance (would hire this firm/individual again)
- **2 = Less than Satisfactory**
- **1= Totally Unsatisfactory** based on performance (would never hire the firm/individual again)

Criteria	Rating		
	Company	PM	Super
1 Ability to meet client's expectations			
2 Quality of workmanship			
3 Ability to manage project costs and minimize change orders			
4 Ability to maintain project schedule			
5 Ability to manage subcontractors			
6 Professionalism, leadership and communication in issues management (RFI, shop drawing submittal, timely resolution of issues/questions)			
7 Ability to follow the owner's rules, regulations, and requirements (housekeeping, safety, etc.)			
8 Ability to manage closeout process (Prompt submittal of punch list, warranty, as-builts, operation manuals, tax clearances, etc.)			
9 Comfort level in hiring firm or individual again based on performance			
Total Score			
Average Score			

Evaluator Information	
Name of Evaluator:	Title:
Firm/Company Name:	
Firm Address:	
Phone:	Email:

Form 6 – Supplemental Responsibility Criteria Evaluation Score Sheet

Project Location _____
 Project Name _____
 Contract Number _____
 Project Representative _____

1. Experience of Contractor - On projects of similar size & complexity (Form 1)	Pass or Fail
--	--------------

2. Experience of Key Personnel (Form 2)	
Superintendent	Pass or Fail
Project Manager	Pass or Fail
Other(s) if specified in Division 00	Pass or Fail

3. Diverse Business Inclusion Plan (Form 3) <i>(Applies only to projects with Diverse Business Plan Inclusion requirements; i.e. MACC over \$1M)</i>	Pass, Fail, or N/A
---	--------------------

4. Contractor Compliance with Apprenticeship Requirements - Requirements were met or if not, a good faith effort was demonstrated (Forms 1 & 4) <i>Applies only to projects with apprenticeship participation requirements; i.e. MACC over \$1M</i>	Not Scored
--	------------

5. References from Previous Projects (Form 5) Evaluate contractor's references information and using the rating numbers: 1 = NOT Satisfactory (requires a written comment below) 2 = Less THAN Satisfactory 3 = Satisfactory 4 = More THAN Satisfactory 5 = Superior	Rating Score 1-5 (3 is Satisfactory)
Company	
Project Manager	
Superintendent	
Total Score:	
Average score (divide total score by number of ratings)	

In determining the bidder responsibility, an overall accounting of the ratings shall be made. A score of "Pass" is required for categories 1 - 4 and an average score of 3.0 or higher is required to meet the minimum Supplemental Bidder Responsibility requirements.

Comments _____

Determination Responsible
 Not Responsible (Preliminary Determination)

Evaluated by _____ Date _____
 State Parks Project Representative

Signature _____

**KOPACHUCK STATE PARK
DAY USE DEVELOPMENT**

SECTION 016001 – SUBSTITUTION REQUEST FORM

TO: BRUCE DEES & ASSOCIATES
222 East 26th Street, Suite 202
Tacoma, Washington 98421

PROJECT NAME: KOPACHUCK STATE PARK – DAY USE DEVELOPMENT

CONTRACTOR:

We hereby submit for consideration the following product instead of specified item for above project:

<u>Section</u>	<u>Paragraph</u>	<u>Specified Item</u>
_____	_____	_____

Proposed Substitution: _____

Attach complete dimensional information and technical data, including laboratory tests, if applicable.

Include complete information on changes to Drawings and/or Specifications, which proposed substitution will require for its proper installation.

Submit with request all necessary samples and substantiating data to prove equal quality, performance, and appearance to that which is specified. Clearly mark manufacturer's literature to indicate equality performance. Differences in quality of materials and construction shall be indicated.

Fill in blanks below:

A. Reason for substitution request:

B. Does the substitution affect dimensions shown on Drawings:
Yes ___ No ___ If yes, clearly indicate changes.

C. Will the undersigned pay for changes to the design, including engineering and detailing costs caused by the requested substitution:

Yes ___ No ___ Comment: _____

**KOPACHUCK STATE PARK
DAY USE DEVELOPMENT**

D. What affect does this substitution have on other trades, other Contracts, and Contract completion date:

E. What affect does this substitution have on any applicable code requirements:

F. Differences between proposed substitution and specified item:

G. Manufacturer's guarantee of the proposed substitution and specified items are:

Same _____ Different _____ (explain): _____

H. List of names and addresses of three similar projects on which product was used, date of installation, and Architect's name and address:

I. Cost and supplier of specified product: _____

J. Cost and supplier of proposed substitution product: _____

The undersigned attests that function and quality of substitution are equivalent or superior to specified items.

CERTIFICATION OF EQUAL PERFORMANCE
AND ASSUMPTION OF LIABILITY FOR
EQUAL PERFORMANCE.

Submitted By:

Signature _____ Title _____

Firm _____

Address _____

Telephone _____

Date _____

FOR USE BY OWNER'S REPRESENTATIVE:

Accepted:

Accepted as Noted:

Not Accepted:

Received Too Late:

By: _____

Date: _____

Remarks: _____

Signature must be by person having authority to legally bind his/her firm to the above terms.

Concurrence by Owner's Representative: _____

END OF SECTION 016001

**Corbin
RUSSWIN** 



Door Closers DC2000 Series



Applications

Proven effective in high-use, high-abuse situations, with millions of units in service for over 20 years. DC2000 Series Door Closers fulfill security and life safety requirements by ensuring reliable latching for access control and fire code compliance, along with ease of operation and precise adjustability for barrier-free code compliance. Ideal for virtually all door openings and draft conditions in both new construction and renovations, including:

- Schools and universities
- Health care
- Government
- Commercial and industrial
- Office and retail
- Transportation and utilities
- Hotels and conference centers
- Religious

Advantages

- Meets or exceeds ANSI A156.4 Grade 1 requirements
- Compliance with building and barrier-free codes
- Up to full 180° door opening
- Unique pressure-relief backcheck intensity valve includes safety feature to maintain correct internal pressure
- Innovative multiple backcheck location valve offers 70° or 90° backcheck setting on all mountings
- One-piece seamless steel spring tube seals in hydraulic fluid
- Tapered valves allow precise adjustment
- Cast iron body
- Paper template enhances ease of installation in new and retrofit situations
- QUIK-INSTALL™ mounting bracket speeds installation and reduces costs
- Ten-year limited warranty

Applications	2
Features	3
Mountings	6
Door Closer Arms	8
Mounting Brackets	10
Brackets and Covers	11
Size and Handing	12-13
How to Order	14
Helpful Terms	17
How to Specify	18



Door Closers DC2000 Series

Overview of Features	DC2200 Closers	DC2400 Closers	DC2600 Closers
Spring power	Non-sized; adjustable 1-6	Sizes 1-6; 1/2-size adjustment	Sizes 1-6
Latching speed valve	Standard	Standard	Standard
Closing speed valve	Standard	Standard	Standard
Backcheck intensity valve with safety feature	Standard	Standard	Optional
Multiple backcheck location valve	Standard	Standard	Optional
Delayed action valve	Optional	Optional	Optional
Parallel arm mounting	Optional	Optional	Optional
Top jamb mounting	Standard	Standard	Standard
Heavy duty regular arm	Optional	Optional	Optional
Heavy duty parallel arm	Optional	Optional	Optional
Backstop arm	Optional	Optional	Optional*
Spring Stop Arm	Optional	Optional	Optional*
Hold-open	Optional	Optional	Optional
Sex nuts and bolts (SNBs)	Optional	Optional	Optional
Corrosion protection	Optional	Optional	Optional
Full cover	Standard	Standard	Standard
Slim cover	Optional	Optional	Optional
Full metal cover	Optional	Optional	Optional
Security torx machine screws	Optional	Optional	Optional
Security package (includes heavy duty parallel or regular arm, full metal cover and security torx machine screws)	Optional	Optional	Optional
Plated finishes	Optional	Optional	Optional
Extreme temperature fluid	Optional	Optional	Optional
Ten-year warranty	Standard	Standard	Standard

* Available only when ordered with backcheck intensity valve and multiple backcheck location valve.

Door Closers DC2000 Series

Features

Spring Power

DC2200 closers: non-sized; fully adjustable 1 through 6.

DC2400 closers: sizes 1 through 6; half-size adjustability.

DC2600 closers: sizes 1 through 6; non-adjustable.

For recommended sizes, see page 12.

Handing

Non-handed.

Body

Cast iron case with seamless one-piece forged steel spring tube.

Arm

Standard: heavy duty forged steel.

Optional arms available; see Door Closer Arms, page 8, or How to Order, page 15.

Spindle

Triple heat treated steel.

Piston

Precision machined, heat treated steel.

Springs

Double heat treated steel, tempered.

Valves

Latching speed valve standard.

Closing speed valve standard.

Multiple backcheck location valve and backcheck intensity valve with safety feature standard on DC2200 and DC2400 closers; optional on DC2600 closers. See How to Order, page 15.

Delayed action valve optional on DC2200, DC2400 and DC2600 closers.

Delayed action preset for 20 seconds; adjustable up to 60 seconds. Effective from maximum opening to 70° for all mountings. See How to Order, page 15.

Seals

“O” rings.

Fluid

Standard: high lubricity hydraulic fluid. Optional: extreme temperature fluid; eliminates valve readjustment when temperatures vary more than 50°F. See How to Order, page 15.

Degree of Opening

Up to full 180° opening standard for regular, top jamb and parallel arm mountings.

Power Adjustment Arm Bracket

15% adjustment standard.

Cover

Standard: non-metallic full cover.

Optional: slim cover or full metal cover; see How to Order, page 15.

Mountings

Standard: regular and top jamb.

Optional mountings available; see Mountings, page 6, or How to Order, page 15.

Mounting Bracket

QUIK-INSTALL™ mounting bracket standard.

Fasteners

Standard: combination screws for wood and metal doors.

Optional: sex nuts and bolts (SNBs) or security torx machine screws; see How to Order, page 15.

Corrosion Protection

Painted protective coating on all metal surfaces for use in corrosive environments. Optional on all closers; see How to Order, page 15.

Warranty

Ten-year limited.

Certification/Compliance

ANSI

Meets A156.4, Grade 1. See page 14. Meets A117.1 Accessibility Code. See page 5.

Federal

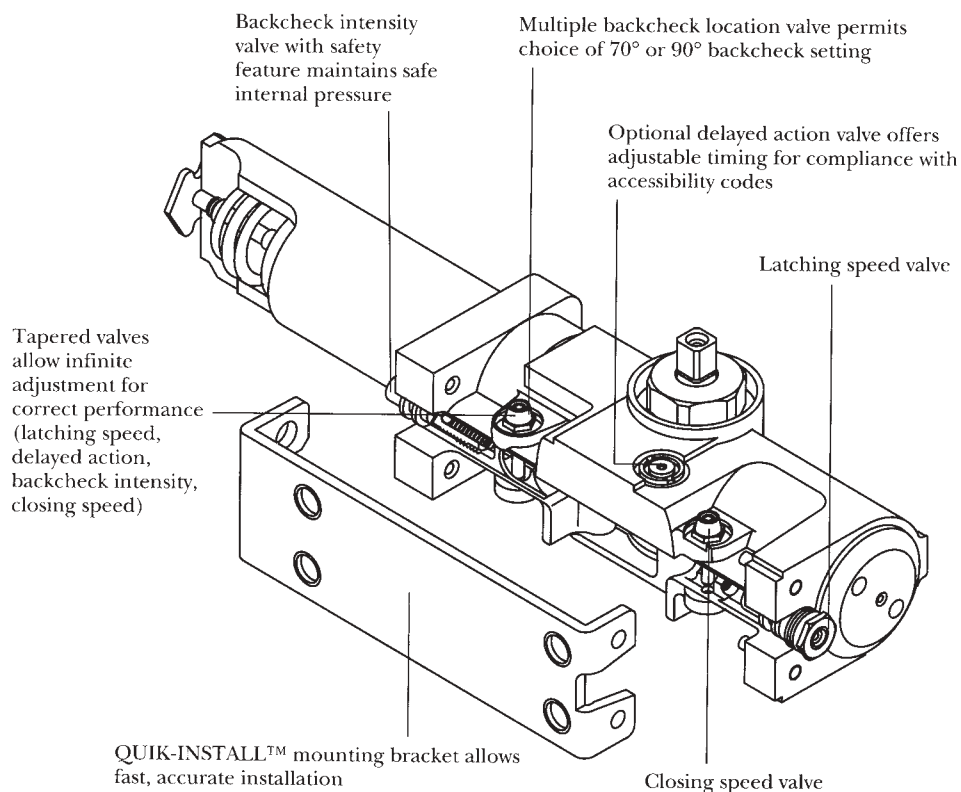
Meets FF-H-121D, Type 3000.

UL / ULC

Listed for fire and cycle requirements.

ADA

Complies with Americans with Disabilities Act.



Door Closers DC2000 Series

Finishes

Standard painted finishes

BHMA 600	Primed for Painting
BHMA 689	Silver Aluminum Painted
BHMA 690	Dark Bronze Painted
BHMA 691	Light Bronze Painted
BHMA 693	Black Painted
BHMA 696	Satin Brass Painted

Plated finishes are available only on the full cover, full metal cover, regular arm, parallel arm and deep reveal arms.

US3	BHMA 605	Bright Brass
US4	BHMA 606	Satin Brass
US9	BHMA 611	Bright Bronze
US10	BHMA 612	Satin Bronze
US26	BHMA 625	Bright Chromium Plated
US26D	BHMA 626	Satin Chromium Plated



Barrier-Free Code Compliance

The DC2000 Series Door Closers listed below conform to the 5 lbf. maximum door opening force requirement for non-fire-rated interior hinged doors, according to:

Americans with Disabilities Act (ADA)

Accessibility Guidelines for Buildings and Facilities, Section 4.13.11

American National Standards Institute (ANSI)

A117.1, Section 4.13.11

DC2200	DC2412
DC2210	DC2421
DC2220	DC2601
DC2401	DC2611
DC2411	DC2621

These door closers are certified by Corbin Russwin Architectural Hardware to comply with the above standards when properly installed and (if applicable) adjusted, in regular arm, parallel arm and top jamb mountings.

Door Closers DC2000 Series



Regular Arm Mounting **DC2200, DC2400, DC2600 Series**

Most common mounting, providing the greatest closing efficiency. Closer is mounted on the pull side, with the arm perpendicular to the face of the door. Arm bracket is attached to the door frame.



Parallel Arm Mounting **DC2210, DC2410, DC2610 Series**

Allows inside application of closer on out-swinging doors. Closer is mounted on the push side, with the arm parallel to the face of the door. Arm does not project from the opening.



Top Jamb Mounting **DC2220, DC2420, DC2620 Series**

Accommodates reveals up to 3¹/₄". Closer is mounted on the push side, with the arm perpendicular to the face of the door. Arm bracket is mounted on the door. Minimum 1³/₄" top jamb required.



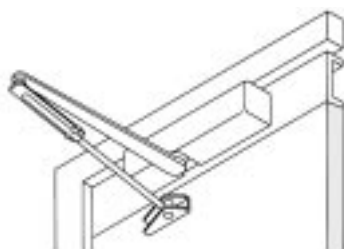
Track Mounting **DC2230, DC2430, DC2630 Series**

Closer is top jamb mounted on the pull side; arm is connected to a door-mounted track. Maximum degree of opening is 100°. Maximum closing power is size 4. Minimum 3" top jamb required.



Track Mounting **DC2240, DC2440, DC2640 Series**

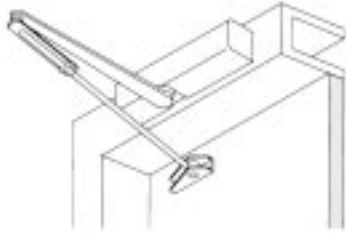
Closer is mounted on push side of door; arm is connected to a stop mounted track. Maximum degree of opening is 100°.



Flush Transom Mounting

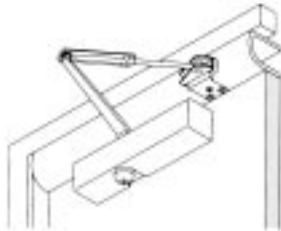
Closer is top jamb mounted on the push side; arm is attached to the door.

Door Closers DC2000 Series



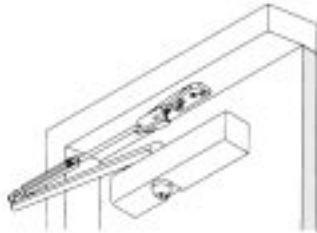
Deep Reveal Top Jamb Mounting

For reveals greater than 3¹/₄", up to 11".



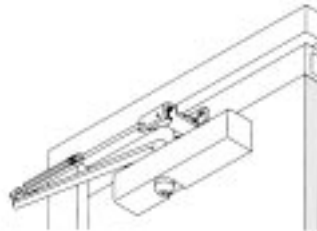
Regular Arm Mounting with Mortise Arm Bracket

Used on inadequately reinforced frames, such as those with bull nose trims.



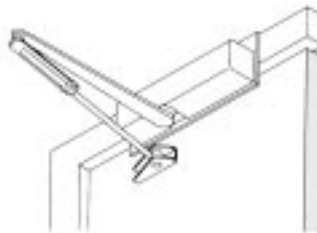
Parallel Arm Offset Angle Mounting

Allows parallel arm mounting when used with an overhead door holder.



Parallel Arm Mounting on Flush Transom

Allows parallel arm mounting on flush transom applications.



Narrow Top Jamb Mounting

For use when the frame is too narrow for a normal top jamb or top jamb track mounting.

Door Closer Arms

Door Closers DC2000 Series



Regular Arm

Used with regular arm mounting (pull side) and top jamb mounting (push side).

Standard on DC2200, DC2400 and DC2600 closers.

To order separately, specify 421F33-8 x Finish.



Regular Arm with Hold-Open*

Permits door to remain in hold-open position.

Used with regular arm mounting (pull side) and top jamb mounting (push side). Optional on DC2200, DC2400 and DC2600 closers; specify Quick Code A1.

To order separately, specify 421F32-8 x Finish.



Heavy Duty Regular Arm

Recommended for high-use, high-abuse environments.

Tamper-resistant, solid forged steel riveted arm; mounted on pull side. Optional on DC2200, DC2400 and DC2600 series; specify Quick Code A10.

To order separately, specify 597F52-8 x Finish. Not available in plated finishes.



Parallel Arm

Regular arm plus parallel arm mounting bracket; mounted on push side.

Order closer as DC2210, DC2410 or DC2610 series.

To order separately, specify 421F33-8 x 188F41-8 x Finish.



Parallel Arm with Hold-Open*

Permits door to remain in hold-open position.

Regular arm with hold-open plus parallel arm mounting bracket; mounted on push side.

Optional on DC2210, DC2410 and DC2610 series; specify Quick Code A1.

To order separately, specify 421F32-8 x 509F49-8 x Finish.



Heavy Duty Parallel Arm

Recommended for high-use, high-abuse environments.

Tamper-resistant, solid forged steel riveted arm; mounted on push side.

Optional on DC2210, DC2410 and DC2610 series; specify Quick Code A3.

To order separately, specify 489F70-8 x Finish. Not available in plated finishes.

*Not allowed by code on fire doors.

Door Closers DC2000 Series



Heavy Duty Parallel Arm with Hold-Open*

Recommended for high-use, high-abuse environments. Tamper-resistant, solid forged steel riveted arm; mounted on push side. Permits door to remain in hold-open position. Optional on DC2210, DC2410 and DC2610 series; specify Quick Code A2. To order separately, specify 489F69-8 x Finish. Not available in plated finishes.



Heavy Duty Reversible Backstop Parallel Arm

Recommended for high-use, high-abuse environments. Tamper-resistant, solid forged steel riveted arm (mounted on push side). Field reversible steel lug restricts degree of opening to protect door, wall and hardware. Requires both backcheck valves on closer. Optional on DC2210, DC2410 and DC2610 series; specify Quick Code A4. To order separately, specify 566F33-8 x Finish. Not available in plated finishes.



Heavy Duty Reversible Backstop Parallel Arm with Hold-Open*

Recommended for high-use, high-abuse environments. Same as above, with on-off hold-open; 90° turn of the "T" handle permits door to remain in hold-open position. Requires both backcheck valves on closer. Optional on DC2210, DC2410 and DC2610 series; specify Quick Code A5. To order separately, specify 566F34-8 x Finish. Not available in plated finishes.



Heavy Duty Spring Stop Parallel Arm

Recommended for high-use, high-abuse environments. This single unit integrates a commercial grade door closer, a shock absorber and an auxiliary heavy duty overhead stop. Requires both backcheck valves on the closer. Order closer as DC2210, DC2410 or DC2610 x Quick Code All x Door Width. To order separately specify 615F52 for door 28"-32"; 615F54 for door 33"-41"; 615F56 for doors 42"-48". These arms are not available in plated finishes.



Heavy Duty Spring Stop Parallel Arm with Hold-Open*

Same as spring stop above, with hold-open. Holder mechanism tension is adjustable and can be set to effectively hold door open through gust of wind. Hold-open can be engaged/disengaged by a partial turn of the mechanism with a standard blade type screwdriver. Requires both backcheck valves on the closer. Order closer as DC2210, DC2410, DC2610 x Quick Code A12 x Door Width. To order separately, specify 615F51 for doors 28"-32"; 615F53 for doors 33"-41"; and 615F55 for doors 42"-48". Not available in plated finishes.



Pull Side Track Arm

Provides a clean, aesthetic look with maximum 100° opening; mounted on pull side. Order closer as DC2230, DC2430 and DC2630 series. To order separately, specify 294F38-8 (track arm) x 294F45-8 (non-hold-open track) x Finish. Not available in plated finishes.



Pull Side Track Arm with Hold-Open*

Same as Track Arm, with the addition of hold-open which can be set for 85°, 90°, 95° or 100° opening; mounted on pull side. Optional on DC2230, DC2430 and DC2630 series; specify Quick Code A1. To order separately, specify 294F38-8 (track arm) x 294F44-8 (hold-open track) x Finish. Not available in plated finishes.

*Not allowed by code on fire doors.

Door Closers DC2000 Series



Push Side Track Arm

Provide a clean aesthetic look for doors opening a maximum of 100° and a minimum door width of 32". Order closer as DC2240, DC2440, DC2640 Series. Back check option recommended. To order arm & track separately, specify 615F31 x Finish. (Not available in plated finishes.)



Push Side Track Arm with Hold-Open*

Same as Track Arm with the addition of hold-open that may be positioned on door to allow hold open from 85° to 100°; mounted on push side; turn knob offers the user the option of turning hold-open off or on. Order closers DC2240, DC2440, DC2640 & Quick Code T1. Back check option recommended. To order separately, specify 615F32 x Finish. (Not available in plated finishes.)



Deep Reveal Arm (3³/₈"-7¹/₄")

Accommodates top jamb mounting for reveals up to 7¹/₄", depending on door and frame conditions; mounted on push side. Optional on DC2220, DC2420 and DC2620 series; specify Quick Code A6 for regular or A8 for hold-open.* To order separately, specify 421F41-8 x Finish for non-hold-open; specify 421F40-8 x Finish for hold-open.



Extra-Deep Reveal Arm (7³/₈"-11")

Permits top jamb mounting (push side) for reveals of 7³/₈"-11", depending on door and frame conditions. Also available with hold-open.* Optional on DC2220, DC2420 and DC2620 series; specify Quick Code A7 for regular or A9 for hold-open.* To order separately, specify 421F45-8 x Finish for non-hold-open; specify 421F44-8 x Finish for hold-open.



QUIK-INSTALL™ Mounting Bracket

Unique cost-saving feature, standard on all closers. Reduces installation time and cost, assures correct mounting and extends closer life. Bracket is first mounted to door or frame, then closer is attached. By minimizing handling of closer, bracket reduces installer fatigue and promotes accuracy.

To order separately, specify 188F03-8 x Finish. Not available in plated finishes.



Parallel Arm Bracket

Converts regular arm closer to parallel arm closer. Standard with parallel arm mounting.

To order separately, specify 188F41-8 x Finish.

*Not allowed by code on fire doors.

Door Closers DC2000 Series



Parallel Arm Hold-Open Bracket

Converts regular arm hold-open closer to parallel arm hold-open closer. Standard with parallel arm hold-open mounting. To order separately, specify 509F49-8 x Finish.



Parallel Arm Offset Bracket

Required when parallel arm mounting is used in conjunction with an overhead door holder; see M83 Option under How to Order, page 16. To order separately, specify 188F62-8 x Finish.



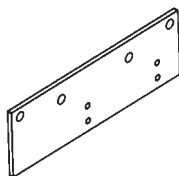
Parallel Arm Flush Transom Bracket

Required when parallel arm mounting is used on a flush transom application; see M82 Option under How to Order, page 16. To order separately, specify 188F63-8 x Finish. Not available in plated finishes.



Mortise Arm Bracket for Regular Arm Mounting

For regular arm mounting where frame requires reinforcement, e.g., on frames with bull nose trims; see M84 Option under How to Order, page 16. To order separately, specify 244F17-8 x Finish. Not available in plated finishes.

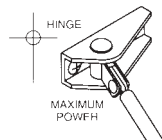
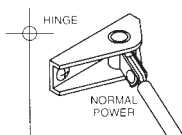


Drop Plate

Permits parallel arm or top jamb mounting on door when top rail is too narrow to install closer in the regular manner. Minimum 2" top rail required. To order separately, specify Part No. x Finish.

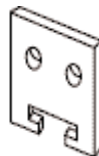
Drop Plate Selection Table

Closer Series	Slim Cover	Full Cover
DC2210, DC2410 DC2610	188F65-8	597F58-8
DC2220, DC2420 DC2620	188F65-8	188F65-8
DC2230, DC2430 DC2630 DC2240, DC2440 DC2640	294F40	597F59-8



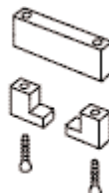
Power Adjustment Arm Bracket

Standard on all closers without hold-open, except heavy duty and track type. In regular arm or top jamb mounting, bracket may be reversed to increase closing power 15%.



Reinforcing Bracket

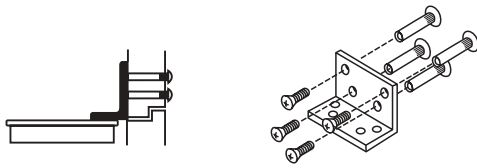
Supplied as standard for use with A11 and A12 spring stop arms. Provides additional support to the soffit plate on installations with door frame reveals from 17/8" to 45/8" (48mm to 117mm). To order separately specify part number 615F58 x finish.



Deep Reveal Reinforcement Kit

For use with A11 and A12 spring stop arms. Use to support the soffit plate on installations with wide frames. Clamps may be used with or without the spacer block, depending on frame conditions. For frames deeper than 45/8" (117mm), specify Quick Code M103. To order separately specify part number 615F59 x finish.

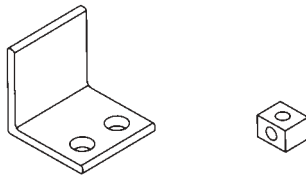
Door Closers DC2000 Series



Flush Partition Bracket

For use with A11 and A12 spring stop arms. Where rabbeted or flush transom conditions prevent installation of the soffit plate assembly. This bracket fastens to the overhead transom to provide a mounting surface for the soffit plate assembly, specify Quick Code M104

To order separately, specify part number 615F60 x finish.

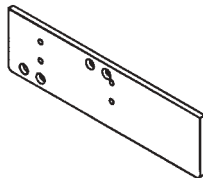


Angle Support Bracket and Spacer

Available separately for mounting A2, A3, A4 and A5 heavy duty arms on narrow frame or soffit conditions; see How to Order, page 15.

To order M85 Angle Support Bracket separately, specify 447F14 x Finish.

To order M86 Spacer separately, specify 447F13 x Finish.



Retrofit Plates

For installation of Corbin Russwin DC2200 Closers where doors & frames have been prepared for LCN heavy duty surface closers, order the following

replacement kits with complete Corbin Russwin closers.

To Replace LCN Model		Order the following Quickcode with Closer
4040/4041	Regular Arm	M101A
4040/4041	Parallel Arm	M101B
4110EDA		M101C
4010		M101D



Full Cover

Standard on all DC2000 series door closers. Completely covers closer body. Reversible for regular and parallel arm mountings. For top jamb mounting, specify hand.

11⁵/₈" x 3" x 2³/₄" deep.

Painted and plated finishes.

To order separately, specify 597F78-9 x Finish.



Slim Cover

Optional on all DC2000 Series Door Closers.

Non-handed. Cap covers bottom of spindle.

For DC2200 and DC2400 closers: 11⁵/₈" x 2" x 2³/₄" deep.

For DC2600 closers: 10³/₈" x 2" x 2³/₄" deep.

Available in painted finishes; see How to Order, page 15.

To order separately for DC2200 and DC2400 closers, specify 7F40 x Finish. Not available in plated finishes. To order separately for DC2600 closer, specify 387F40 x Finish.



Full Metal Cover

For use in high-abuse applications, such as schools and detention facilities. For all mountings, specify hand.

DC2200 and DC2400: 11¹/₂" x 2⁷/₈" x 2³/₄" deep. Available in painted and plated finishes. See How to Order, page 15.

To order separately for RH or LHR, specify 603F55 x Finish.

To order separately for LH or RHR, specify 603F57 x Finish.

DC2600: 10¹/₄" x 2⁷/₈" x 2³/₄" deep.

To order separately for RH or LHR, specify 603F56 x Finish.

order separately for LH or RHR, specify 603F58 x Finish.

Door Closers DC2000 Series

Factors in Determining Closer Size

1 – Weight and Height of Door

Doors vary in weight from light hollow-core wood doors to heavy metal doors. Door sizes listed in the chart are based on doors of standard weight and height. Extra-light or extra-heavy weight or unusual height must be compensated for.

2 – Draft and Wind Conditions

Draft and wind conditions are perhaps the most important factors to consider in determining the closer size required. Sizes listed in the chart apply to normal conditions. Stairwells, air conditioning, building construction, and door location can cause strong draft and wind conditions; these may necessitate adjusting spring power to a larger size or using a closer one size larger.

3 – Location of Closer

The degree of door opening required determines the location of the closer on the door. Closer sizes listed in the chart are based on 180° opening.

4 – Special Conditions

Deep reveals require optional extended arms. A top jamb plate is required when the jamb is too narrow for a normal top jamb mounting.

5 – Code Compliance

A non-sized, fully adjustable closer such as the DC2200 closer provides the greatest flexibility in balancing barrier-free access, security and life safety codes. However, when a manual closer is installed and adjusted to comply with ADA or any other reduced opening force requirements, it may no longer have sufficient power to close and latch the door reliably.

Recommended Door Closer Sizes

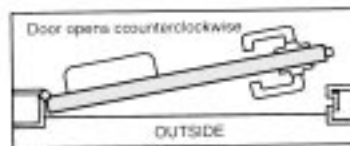
Mounting	Size of Door			Recommended Closer Size
	Interior	Exterior, In-swinging	Exterior, Out-swinging	
Regular or Top Jamb	2'4"	—	—	1
	3'0"	—	—	2
	3'6"	2'6"	3'0"	3
	4'0"	3'0"	3'6"	4
	4'6"	3'6"	4'0"	5
	5'0"	4'0"	4'6"	6
Parallel Arm	2'4"	—	—	1
	2'6"	—	—	2
	3'0"	—	2'6"	3
	3'6"	—	3'0"	4
	4'0"	—	3'6"	5
	4'6"	—	4'0"	6

Handing

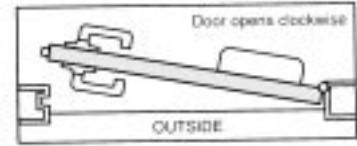
Refers to the direction a door swings; always determined from the outside of the door.

Regular Mounting

Door: left hand
Closer: left hand pull side

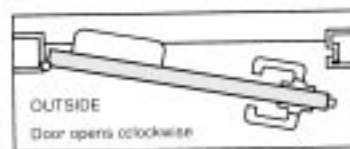


Door: right hand
Closer: right hand pull side

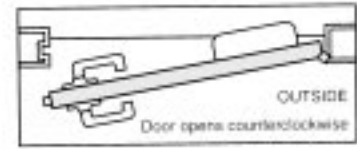


Parallel Arm Mounting

Door: left hand reverse bevel
Closer: right hand push side

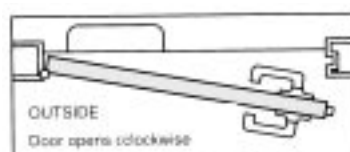


Door: right hand reverse bevel
Closer: left hand push side

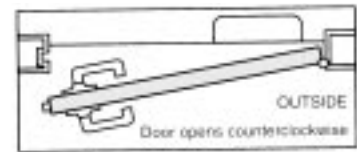


Top Jamb Mounting

Door: left hand reverse bevel
Closer: right hand push side



Door: right hand reverse bevel
Closer: left hand push side



Door Closers DC2000 Series

ANSI A156.4 Certified Closer Cross Reference

ANSI Number	Function	Series	PT 4A 15% Power Adjustment	PT 4B 35% Power Adjustment	PT 4C 50% Power Adjustment	PT 4D Adjustable Backcheck	PT 4F Delayed Action	PT 4G Dead Stop	PT 4H Fully Adjustable
C02011 (PT 1)	Hinge Side Mounting	DC2200	S	S	S	S	0	N/A	S
		DC2400	S	S	S	S	0	N/A	N/A
		DC2600	S	N/A	N/A	0	0	N/A	N/A
C02051 (PT 1)	Hinge Side Mounting Holder Arm	DC2200-A1	S	S	S	S	0	N/A	S
		DC2400-A1	S	S	S	S	0	N/A	N/A
		DC2600-A1	N/A	N/A	N/A	0	0	N/A	N/A
C02021 (PT 1)	Parallel Arm Mounting	DC2210	S	S	S	S	0	0	S
		DC2410	S	S	S	S	0	0	N/A
		DC2610	N/A	N/A	N/A	0	0	0	N/A
C02061 (PT 1)	Parallel Arm Mounting Holder Arm	DC2210-A1	S	S	S	S	0	0	S
		DC2410-A1	S	S	S	S	0	0	N/A
		DC2610-A1	N/A	N/A	N/A	0	0	0	N/A
C02041 (PT 1)	Top Jamb Mounting	DC2220	S	S	S	S	0	N/A	S
		DC2420	S	S	S	S	0	N/A	N/A
		DC2620	S	N/A	N/A	0	0	N/A	N/A
C02081 (PT 1)	Top Jamb Mounting Holder Arm	DC2220-A1	S	S	S	S	0	N/A	S
		DC2420-A1	S	S	S	S	0	N/A	N/A
		DC2620-A1	N/A	N/A	N/A	0	0	N/A	N/A
C02231 (PT 1)	Push Side Track Mounting	DC2240	S	S	S	S	0	0	S
		DC2440	S	S	S	S	0	0	N/A
		DC2640	N/A	N/A	N/A	0	0	0	N/A
C02241 (PT 1)	Push Side Track Mounting Holder Arm	DC2240-T1	S	S	S	S	0	0	S
		DC2440-T1	S	S	S	S	0	0	N/A
		DC2640-T1	N/A	N/A	N/A	0	0	0	N/A
C02251 (PT 1)	Pull Side Track Mounting	DC2230	S	S	S	S	0	0	S
		DC2430	S	S	S	S	0	0	N/A
		DC2630	N/A	N/A	N/A	0	0	0	N/A
C02261 (PT 1)	Pull Side Track Mounting Holder Arm	DC2230-A1	S	S	S	S	0	0	S
		DC2430-A1	S	S	S	S	0	0	N/A
		DC2630-A1	N/A	N/A	N/A	0	0	0	N/A

ANSI Performance Requirements: (PT 1)—2,000,000 cycles

N/A = not available S = standard 0 = option available

Door Closers DC2000 Series

Ordering Examples

Stock Order

Quantity	Series/Mounting/Size	Finish
100	DC2200	689

Where to find ordering information and quick codes

Series/Mounting/Size	Page 15
Arm	Page 16
Finish	Page 16
Handing	Page 16
Door Thickness	Page 16
Miscellaneous Options	Page 16

Contract Order

Quantity	Series/Mounting/Size	Arm	Finish	Hand	Door Thickness	Misc. Options
100	DC2626	A6	626	RH	D138	M70-M71-M73

Series/Mounting/Size

Description	Mounting	Non-sized Specify	Size 1 Specify	Size 2 Specify	Size 3 Specify	Size 4 Specify	Size 5 Specify	Size 6 Specify
DC2200 Closers Non-sized; full adjustability from size 1-6	Regular arm	DC2200	N/A	N/A	N/A	N/A	N/A	N/A
	Parallel arm	DC2210	N/A	N/A	N/A	N/A	N/A	N/A
	Top jamb	DC2220	N/A	N/A	N/A	N/A	N/A	N/A
	Track (Pull Side)	DC2230	N/A	N/A	N/A	N/A	N/A	N/A
	Track (Push Side)	DC2240	N/A	N/A	N/A	N/A	N/A	N/A
DC2400 Closers Sized; 1/2-size adjustability	Regular arm	N/A	DC2401	DC2402	DC2403	DC2404	DC2405	DC2406
	Parallel arm	N/A	DC2411	DC2412	DC2413	DC2414	DC2415	DC2416
	Top jamb	N/A	DC2421	DC2422	DC2423	DC2424	DC2425	DC2426
	Track (Pull Side)	N/A	DC2431	DC2432	DC2433	DC2434	DC2435	DC2436
	Track (Push Side)	N/A	N/A	N/A	DC2443	DC2444	DC2445	DC2446
DC2600 Closers Sized; non-adjustable	Regular arm	N/A	DC2601	DC2602	DC2603	DC2604	DC2605	DC2606
	Parallel arm	N/A	DC2611	DC2612	DC2613	DC2614	DC2615	DC2616
	Top jamb	N/A	DC2621	DC2622	DC2623	DC2624	DC2625	DC2626
	Track (Pull Side)	N/A	DC2631	DC2632	DC2633	DC2634	DC2635	DC2636
	Track (Push Side)	N/A	N/A	N/A	DC2643	DC2644	DC2645	DC2646

Door Closers DC2000 Series

Arm

Arm	Specify
Regular	(standard)
Hold-open	A1
Heavy duty parallel with hold-open	A2
Heavy duty parallel	A3
Heavy duty backstop	A4
Heavy duty backstop with hold-open	A5
Deep reveal (3 ³ / ₈ "-7 ¹ / ₄ ")	A6
Extra-deep reveal (7 ³ / ₈ "-11")	A7
Deep reveal with hold-open	A8
Extra-deep reveal with hold-open	A9
Heavy duty regular	A10
Spring Stop Arm	A11
Spring Stop Arm with Hold-Open	A12
Push Side Track with Hold-Open	T1

Handing

Hand	Specify
Left Hand	LH
Right Hand	RH
Left Hand Reverse	RH
Right Hand Reverse	LH

Door Thickness

Door Thickness	Specify
1 ³ / ₈ "	D138
1 ³ / ₄ "	(standard)

Finish

Standard painted finishes

Description	Specify
USP Primed for Painting	600
SBL Silver Aluminum Painted	689
LBL Dark Bronze Painted	690
DBL Light Bronze Painted	691
FBL Black Painted	693
GBL Satin Brass Painted	696

Plated finishes available on arms and full cover or full metal cover

US3 Bright Brass	605
US4 Satin Brass	606
US9 Bright Bronze	611
US10 Satin Bronze	612
US26 Bright Chromium Plated	625
US26D Satin Chromium Plated	626

For split finish of closer cover and arm, specify cover finish first, then arm finish (e.g., DC2200 x 625 x 689).

Miscellaneous Options

Description	Specify
Security torx machine screws	M04
Sex nuts and bolts (SNBs)	M54
Backcheck intensity and location valves (on DC2200, DC2400 closers)	(standard)
Backcheck intensity and location valves (on DC2600 closers)	M70
Delayed action	M71
Full cover	(standard)
Full metal cover	M73
Extreme temperature fluid	M74
Corrosion protection	M75
Slim cover	M76
Drop plate	M80
Drop plate for pull side track mounting	M81
Parallel arm flush transom bracket	M82
Parallel arm offset bracket	M83
Mortise arm bracket (for regular arm mounting)	M84
Angle support bracket	M85
Spacer	M86
Security package (available with A3 and A10 optional arms)	M87
Drop Plate for push side track mounting	M102
Retrofit Kit LCN 4041RA	M101A
Retrofit Kit LCN 4041PA	M101B
Retrofit Kit LCN 4110EDA	M101C
Retrofit Kit LCN 4010	M101D

Door Closers DC2000 Series

Arm

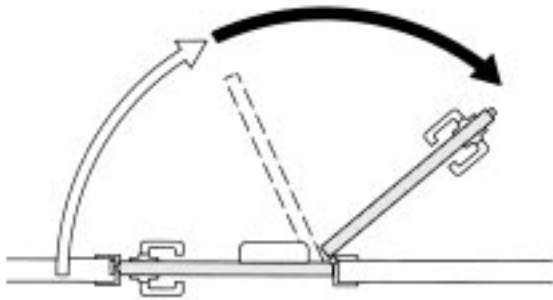
The part of a closer that connects the body to the door or frame.

Backcheck

Slows a door during the opening cycle, by providing cushioned resistance to a forceful opening. Designed to protect people and objects behind the door and to prevent damage to the closer, hardware, and wall. Intensity can be increased or decreased. Not intended to act as a stop.

Backcheck Location

The point (approximately 70°) in the opening cycle where backcheck takes effect.



Closing Speed

The speed at which a door swings from the open position to within a few degrees of latching. See Latching Speed.

Corrosion Protection

Additional painted covering on all external parts to deter oxidation and corrosion.

Delayed Action

Slows door closing speed between maximum opening and approximately 70°. Often specified to meet barrier-free codes which require delayed closing.

Door Stop

A device to stop the swing of a door.

Extreme Temperature Fluid

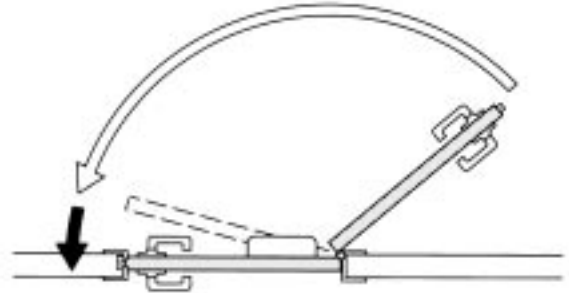
Special hydraulic fluid which allows full valve function without readjustment when temperature varies by 50°-70° F.

Hold-Open

Maintains door at a particular degree of opening. A mechanical hold-open may not be used on labeled fire doors, which must be self-closing.

Latching Speed

The speed of the door during the last few degrees of closing. Allows latching and prevents slamming.



Mounting

The method by which a closer is attached to the door and frame.

Multiple Backcheck Location Valve

Unique valve which can change where backcheck occurs.

Non-Sized Closer

A closer whose spring tube design allows full adjustment of the spring power size from 1 through 6.

Pressure Relief Backcheck Intensity Valve

A valve which reduces internal pressure when the closer is subjected to forceful opening. Helps extend closer life.

QUIK-INSTALL™ Mounting Bracket

Unique bracket which simplifies installation and minimizes installer fatigue.

Sex Nuts and Bolts (SNBs)

Throughbolts required for all non-steel-reinforced fire doors, and recommended for non-reinforced wood and mineral core doors.

Sized Closer

A closer whose spring design allows for a fixed spring power size 1 through 6.

Spring Power

A measurement of closing force, or the ability to overcome draft, air pressure, weight or other resistance to door closing.

Star Punch

An eight-sided socket hole in the closer arm, permitting spindle pre-loading. Provides full functioning of backcheck and delayed action valves, and additional closing force, on parallel arm mountings.

Universal Mounting

The ability of a closer to accommodate either hand for regular, top jamb or (using a bracket) parallel arm mounting.

Door Closers DC2000 Series

Suggested Specification

All door closers shall be DC2000 Series Door Closers as manufactured by Corbin Russwin Architectural Hardware.

Closers shall be of rack and pinion construction with a triple heat treated cold-formed steel spindle and a sintered steel piston, heat treated and precision machined. The case shall be of cast iron with a one-piece seamless forged spring tube. A two-piece or seamed spring tube shall not be acceptable. Springs shall be double heat treated and tempered. Closers shall have a heavy duty, forged steel main arm.

Optional arms shall include parallel, hold-open, heavy duty, heavy duty hold-open, heavy duty reversible backstop, heavy duty reversible backstop with hold-open, heavy duty spring stop, heavy duty spring stop with hold-open, deep reveal, top jamb track and stop mounted track.

The following size options shall be available:

- Fully adjustable spring power to accommodate sizes 1 through 6, such as the Corbin Russwin DC2200 Closer.
- Adjustable spring power within one half size, such as the Corbin Russwin DC2400 Closer.
- No spring power size adjustment; closer provided by size, such as the Corbin Russwin DC2600 Closer.

All sizes shall be accommodated in one closer body. Closing shall be controlled by two valves — one to control closing speed and one to control latching speed. Valves shall be concealed against unauthorized adjustment and be non-critical with “O” rings.

Closers shall be available with an adjustable backcheck intensity valve with a safety feature that automatically relieves internal pressure when backcheck has reached the desired adjustment level. Valves shall be accessible without removing the closer from the door. Delayed action shall be available and shall be accomplished with a separate valve. Closers shall have an automatic air handling system to provide control of internal air expansion and contraction.

Closers shall be available with a multiple backcheck location valve, providing a choice of locations where backcheck affects the door opening cycle. This valve shall be operative on regular, top jamb, parallel arm, and track type mountings.

Closers shall be surface applied with rectangular cover, and shall be devoid of manufacturer’s trademarks. Closers shall not project over 2³/₄”, and shall be capable of mounting on 1³/₄” top rail or inverted mounting on 1³/₄” top jamb. Full cover and full metal cover with security fasteners shall be available. When required, covers shall be available in plated finishes. Closers without hold-open shall be regularly furnished with power adjustment arm bracket capable of providing a 15% power adjustment. A QUIK-INSTALL™ mounting bracket to attach the closer shall be regularly furnished. Closers not having a mounting bracket shall not be acceptable. Hydraulic fluid shall be available of a type requiring no seasonal valve readjustment due to extreme temperature variations. Closers mounted top jamb and parallel arm shall allow for full 180° door opening.

Closers shall be listed by Underwriters Laboratories for closers with non-hold-open arms.

All closers shall be available in architectural finishes to match those on corresponding locksets and exit devices.

Certification:
ANSI 156.4, Grade 1
ADA/ANSI A117.1

Closers shall carry a ten-year limited warranty.

Door Closers DC2000 Series



600 Primed for Painting (USP)



605 Bright Brass (US3)



606 Satin Brass (US4)



611 Bright Bronze (US9)



612 Satin Bronze (US10)



625 Bright Chromium Plated (US26)



626 Satin Chromium Plated (US26D)



689 Silver Aluminum Painted (SBL)



690 Dark Bronze Painted (LBL)



691 Light Bronze Painted (DBL)

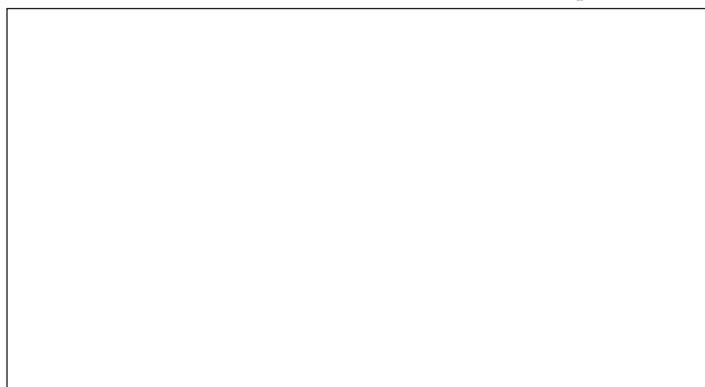


693 Black Painted (FBL)



696 Satin Brass painted (GBL)

For more information regarding Corbin Russwin Locksets,
Exit Devices, Door Controls and Key Systems, contact your
authorized Corbin Russwin Distributor or Sales Representative.



In U.S.:
Corbin Russwin Inc.
1902 Airport road
Monroe, NC 28110
Phone 800-543-3658 Fax 800-447-6714
www.yalesecurity.com

In Canada:
Corbin Russwin Canada
6940 Edwards Blvd.
Mississauga, Ontario L5T 2W2
Phone 800-461-3007 / 905-564-5854
Fax 800-461-8989 / 905-564-8182
www.yalecorbin.on.ca



KOPACHUCK STATE PARK
DAY USE DEVELOPMENT

SECTION 335100 – EXTERIOR PROPANE PIPE AND STORAGE SYSTEM

PART 1 GENERAL

1.1 DESCRIPTION OF WORK

- A. The Work in this Section shall include all labor, materials, tools and equipment necessary to furnish and install the following items and all other related Work in accordance with the requirements of the Contract Documents and as shown on the Plans.

1. Exterior Propane Storage System
2. Exterior Propane Piping System

1.2 SUBMITTALS

- A. Submittals shall comply with Section 230500.
B. Submit production information on all items to be used.

1.3 REFERENCES

- A. National Fire Protection Association (NFPA)
NFPA 58 (2024) Liquefied Petroleum Gas Code
NFPA 54 (2024) National Fuel Gas Code
- B. Washington State Department of Transportation (WSDOT)
(2021) Standard Specification for Road, Bridge, and Municipal Construction; and Amendments
- C. Code of Federal Regulations (CFR)
49.B.1.C: 178.35 General Requirements for Specification of Cylinders
- D. U.S. Department of Transportation (DOT)
DOT 4B240 Specification of Welded or Brazed Cylinders

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Products shall comply with Section 230500, Acceptable Manufacturers.
B. Steel Pipe and Fittings: Pipe and Fittings shall comply with Section 231123.
C. Valves: Valves shall comply with Section 231123.
D. Tank: Quality Steel, Hanson Tank, Flame King, or Approve Equivalent.

KOPACHUCK STATE PARK
DAY USE DEVELOPMENT

2.2 PROPANE GAS PIPE AND FITTINGS

- A. Pipe and fitting standards shall be seamless or welded schedule 40 steel pipe per ANSI/ASTM A120.
- B. Underground Piping: Schedule 40, factory wrapped steel piping with welded joints using butt-welding fittings. Factory wrapped pipe shall consist of factory applied adhesive undercoat and continuously extruded polyethylene coating. Field wrap fittings, couplings, and damaged areas of coating with two wraps of overlapping 10 mil thick polyethylene tape.
- C. Aboveground Piping: Schedule 40, black steel piping: 2 Inch and Less, Exposed: Threaded joints with malleable iron fittings.

2.3 PROPANE GAS SYSTEM VALVES

- A. General: Valves shall be intended for use on propane gas system and suitable for the pressures and temperatures likely to be encountered.
- B. Ball Valves (2 Inch and Smaller): Bronze body valve, with threaded ends, full port, stainless steel disc and stem, 175 psi working pressure, UL listed for use with fuel gases, and AGA design certified for natural gas.

2.4 PROPANE GAS TANK

- A. Propane Tank: Tank shall be in accordance with DOT Standard Spec DOT-4BA240 and sized as shown on the Contract Drawings.

2.5 PROPANE GAS SYSTEM ACCESSORIES

- A. Gas Regulator: Cast iron body, die cast aluminum alloy diaphragm case, Buna-N-Diaphragm disc, union nut connection, and having positive tight lock-up. Regulator shall be sized by manufacturer base on inlet pressure, desired outlet pressure, and flow requirements. Rockwell 143-80 or approved.

PART 3 EXECUTION

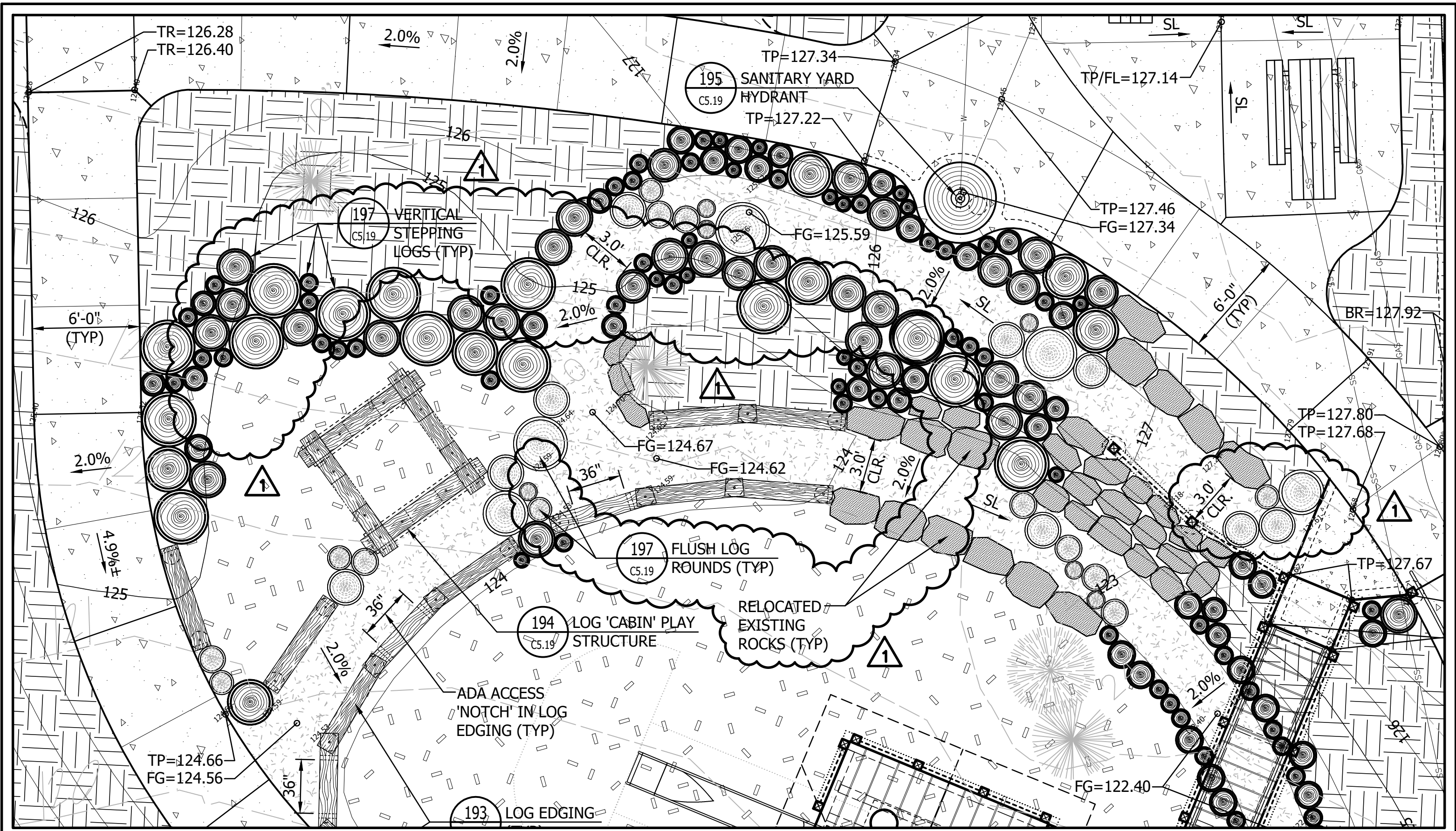
3.1 INSTALLATION

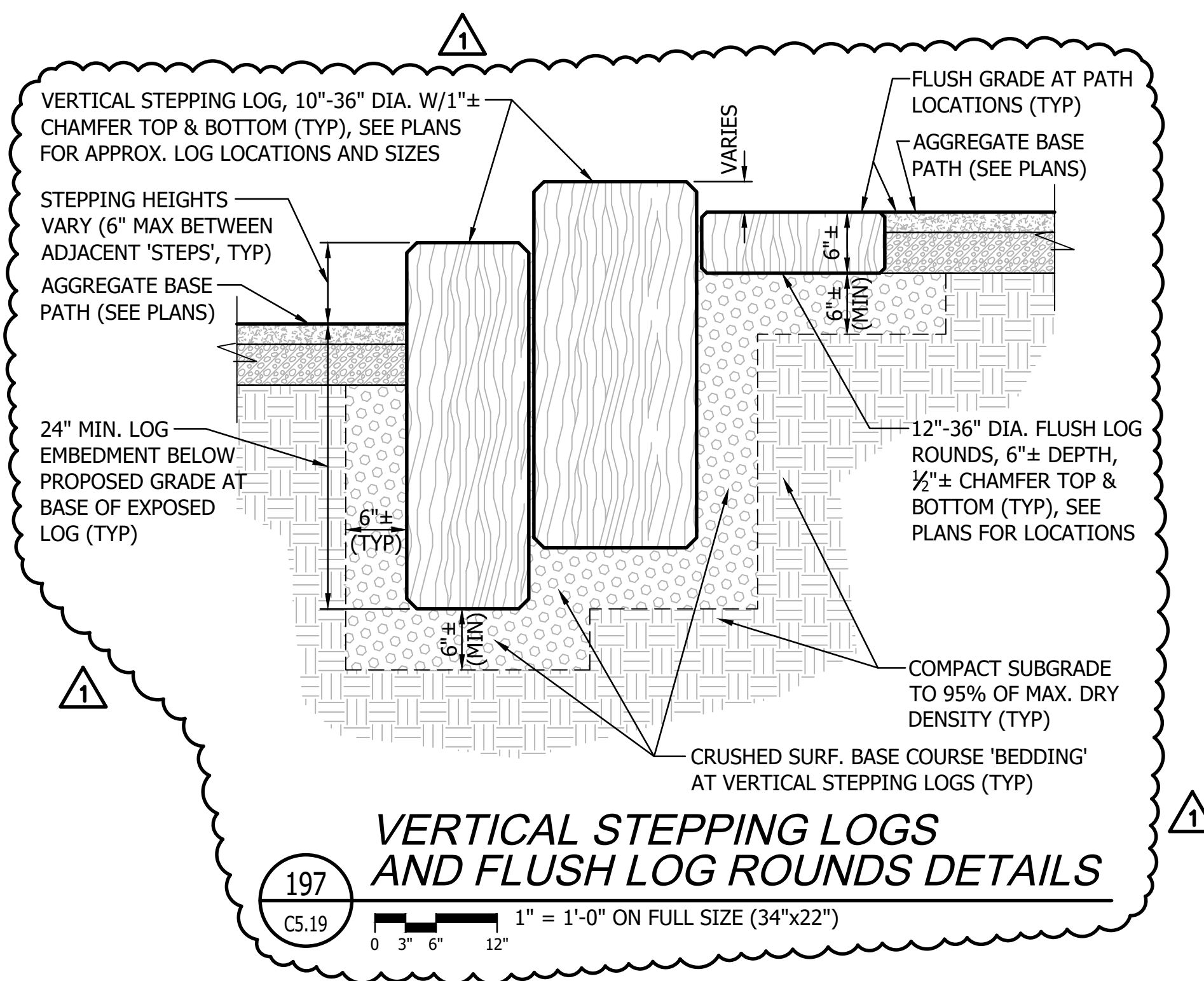
- A. Install in accordance with gas company regulations, local codes and ordinances, and the Uniform Mechanical Code.
- B. Provide all piping, fittings, and components as shown on the drawings and specified to provide complete and operational gas piping systems.
- C. Install all exposed piping parallel to the closest wall and in a neat, workmanlike manner.
- D. Do not run any piping above electrical panels (and similar electrical equipment). Provide offsets around such panels as necessary.
- E. Provide vertical clearance to crossing utilities in accordance with gas company regulations, local codes and ordinances and the Uniform Mechanical Code.

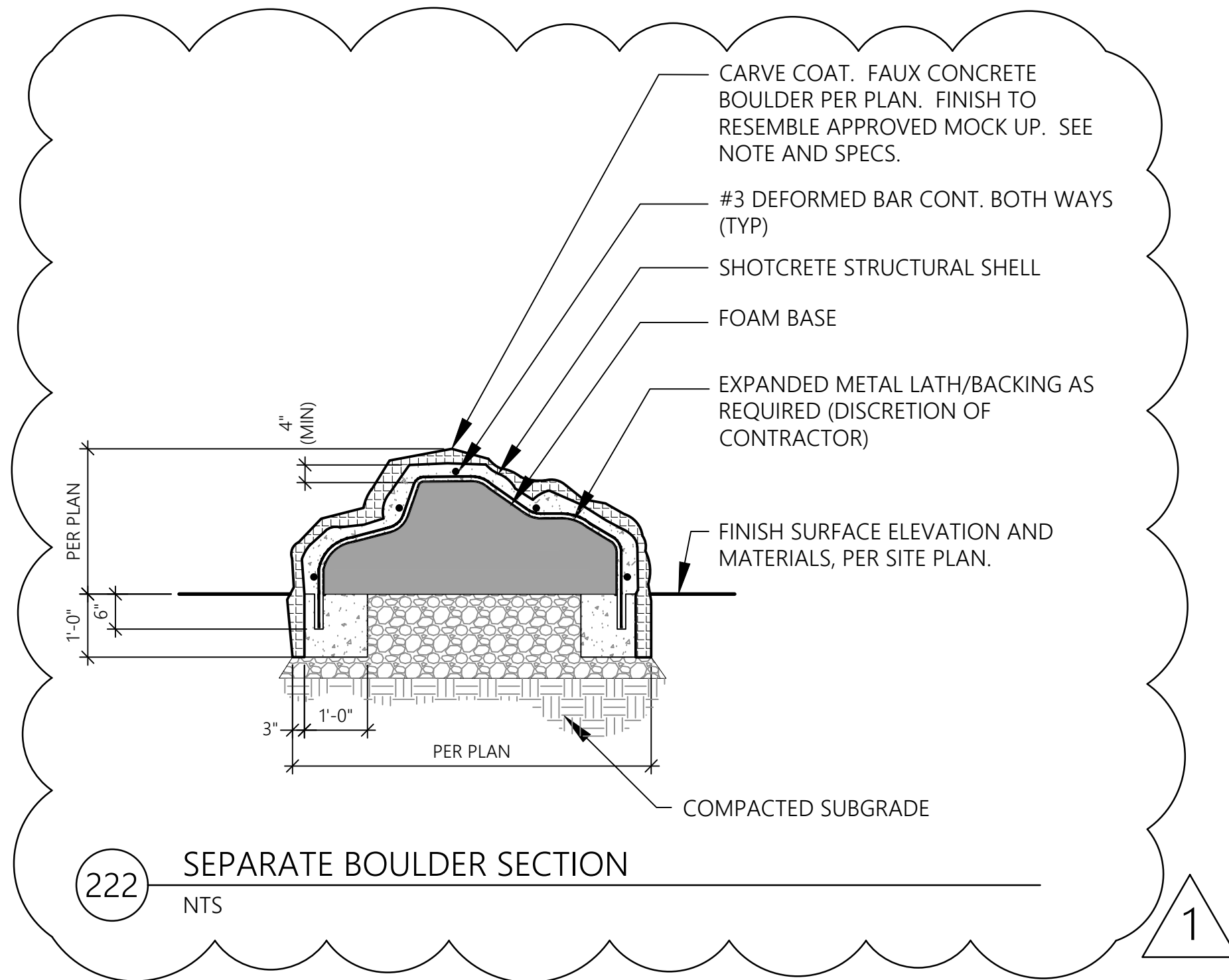
KOPACHUCK STATE PARK
DAY USE DEVELOPMENT

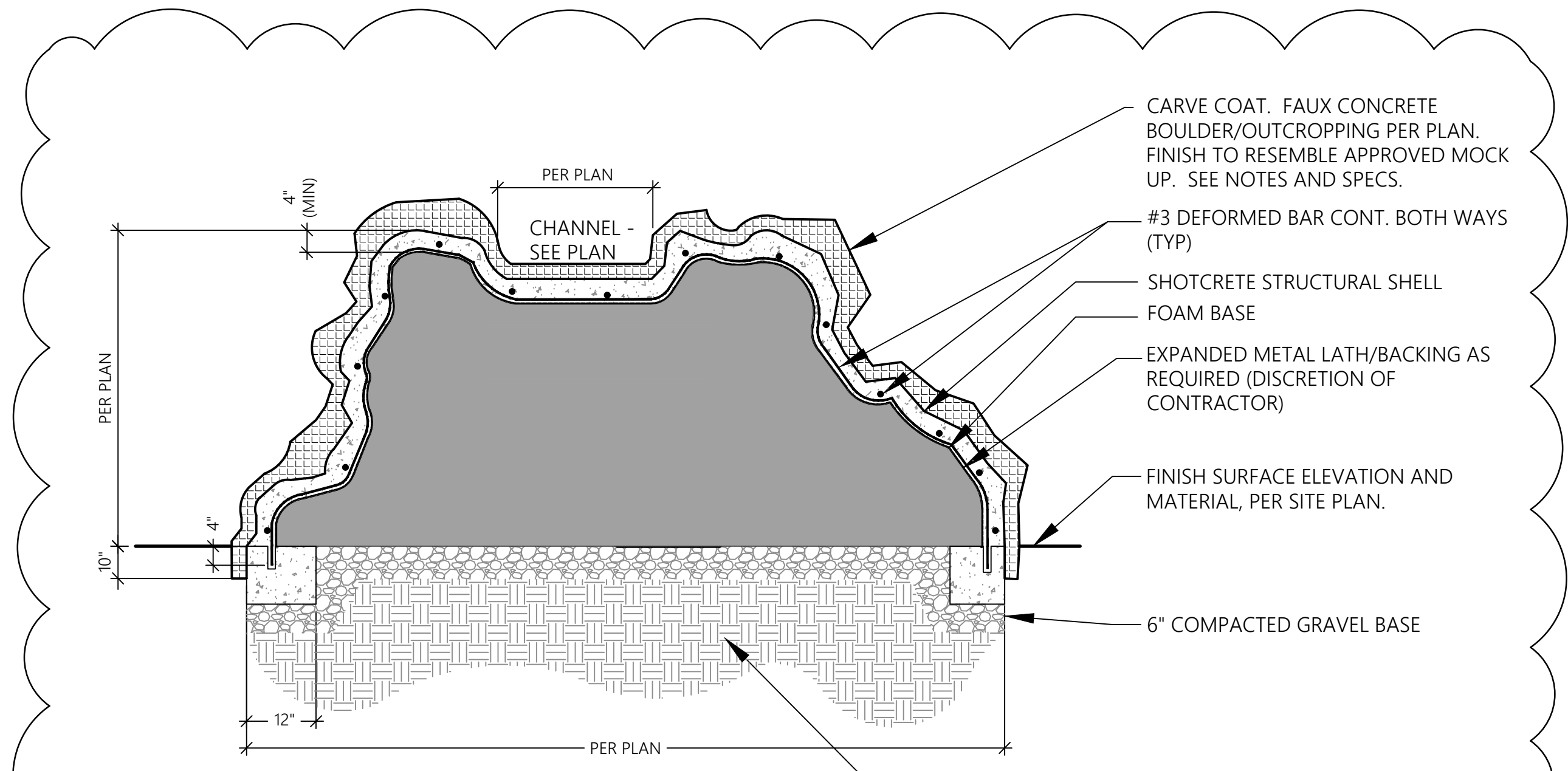
- F. Exterior piping shall have a minimum 18" cover depth underground.
- G. Provide trench and bedding similar to Typical Pipe Trench details unless otherwise required by gas company regulations, local codes and ordinances and the Uniform Mechanical Code.
- H. Threaded Connections: Cut piping carefully, ream, thread and work into place without springing. Use teflon tape or lead and graphite lubricant--on male threads only.
- I. Provide shutoff valves and drip leg in gas piping inlet to all equipment, and where shown.
- J. Pipe regulator vent lines full size to outside of building in accordance to Specification Section 231123.
- K. Testing: All gas piping shall be tested in accordance with Specification section 231123. Test exterior system prior to backfilling trench.

END OF SECTION 335100









223 TYPICAL FEATURE SECTION
NTS

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PRE-BID WALK-THRU

STATE PARK	Kopachuck State Park	DATE:	4/11/2024		
PROJECT NAME	Day Use Improvements	TIME:	10:00 AM		

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