SECTION 00 9111

ADDENDUM #1

PART 1 - GENERAL

This Addendum #1 dated 12/31/18 forms a part of the Contract Documents and modifies the Bidding Documents dated **November 01, 2018**. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder.

This Addendum consists of **4** pages plus the following:

1. Pre-Bid Sign-in Sheet, dated 12/05/18
2. Pre-Bid Meeting Minutes dated 12/05/18.
3. Updated A101-2017 AIA Contract Document.
4. Added Architectural Drawing A1.3 and A4.8, dated 12/31/18
5. Added Civil and Landscape Drawings C2.2, C3.2, C4.2, C5.2, C6.3, L-100A, L-200A, L-300A, dated 12/31/18
6. Reissued Drawing A1.2, C2.1, C3.1, C4.1 dated 12/31/18
7. Specification Section 05 7510, Section 07 2423, dated 12/31/18

1.01 CHANGES TO BID PROPOSAL SUBMISSION DEADLINE

1. Bid Proposal Submission Deadline changed from January 8, 2019 to **January 9, 2019 at 1:00 PM**

1.02 CHANGES TO PROJECT MANUAL

1. REPLACE the following Sections:
   A. **REPLACE** Section 00 5200 – **"A101 - 2007 Standard Form of Agreement Between Owner and Contractor"** with **"A101 - 2017 Standard Form of Agreement Between Owner and Contractor"**
2. **ADD** the following Sections:
   A. **Section 05 7510 - Perforated Metal Panel Systems**
   B. **Section 07 2423 – Cement Board Finish System**
3. **REVISE** the following Sections:
   A. **REVISE** Section 00 0115 – List of Drawings as follows:
      1.**Delete "All drawings dated 11/01/18 unless noted otherwise**." and **Replace** with **"All drawings marked as CCRI Warwick Renewal Entry Ramp Enclosure dated 11/01/18 are part of the Contract Documents unless noted otherwise".**
   B. **REVISE** Section 00 0110 – Table of Contents, Division 05 – Metals as follows:
      1. **Add 05 7510 – Perforated Metal Panel Systems**
   C. **REVISE** Section 01 1000 – Summary of Work, Part 1, Heading 1.02 – Alternates as follows:
      1. **Delete "B. Alternate #2 – Extended Storm Drainage: Provide add alternate price to extend civil work to provide overflow drainage system as detailed. Base Bid includes connection for new roof drainage and drywell. Alternate adds a second connection from well to storm drain at Library building and extends system to connect to existing catch basin in road**

below plaza. Include all additional earthwork, road opening, lawn repair, and road/sidewalk/plaza reconstruction to complete alternate work." and **Replace** with "**B. Add Alternate #2 – Theatre Entrance Hardscape Connector: Provide add alternate price to extend landscape and civil work to provide ADA compliant hardscape connector between proposed Ramp Vestibule Entrance and existing Theatre Entrance as detailed. Add alternate is an upcharge only to install revised design shown on L-100A, L-300A and C2.2, C3.2, C4.2, C5.2. Base Bid includes ADA complaint concrete landing, HC ramp and site steps with railing, concrete walk and planter along the north of the entry vestibule, HVAC concrete pad with metal gated screen as detailed on L-100, L-200, L-300, L-301, C2.1, C3.1, C4.1, C5.1, C6.1, C6.2."**

2. **Insert "C. Deduct Alternate #3 – Cement Board finish system along underside of Existing Ramp: Provide add alternate price to purchase and install cement board finish system along the underside of the existing ramp structure in accordance with detail 8 on drawing A4.5 in lieu of metal panels. Base Bid includes purchase and installation of sheet metal ceiling panels (Section 07 6100) with sub-framing, accessories and fasteners required for a complete installation."**
3. **Insert "D. Add Alternate #4 – Extended Storm Drainage: Provide add alternate price to extend civil work to provide overflow drainage system as detailed. Base Bid includes connection for new roof drainage and drywell. Alternate adds a second connection from well to storm drain at Library building and extends system to connect to existing catch basin in road below plaza. Include all additional earthwork, road opening, lawn repair, and road/sidewalk/plaza reconstruction to complete alternate work."**

D. **REVISE** Section 07 4200 - Phenolic Soffit Panels, Part 2, Heading 2.02.E – Panel Thickness as follows:

1. **Delete** "**1/2", 12mm**" and **Replace** with "**4mm (only at curved soffit conditions between GL R19' & R20), 8mm (at all non-curved locations)**"

E. **REVISE** Section 07 4200 - Phenolic Soffit Panels, Part 2, Heading 2.04 – Accessories as follows:

1. **Delete** "**Accessories (Fasteners)**" and **Replace** with "**Accessories (Sub-framing & Fasteners)**

1.03 CHANGES TO DRAWINGS

A. **ADD** Drawings:

1. **A1.3 – Membrane Roof Fastening Patterns**
2. **A4.8 – Ceiling Details**
3. **C2.2 Demolition Erosion & Sediment Control Plan ALT**
4. **C3.2 General Plan_ALT**
5. **C4.2 Grading Plan ALT**
6. **C5.2 Drainage and Utility Plan ALT**
7. **C6.3 Details 3**
8. **L-100A Hardscape Plan - Add Alternate**
9. **L-200A Details**
10. **L-300A Landscape Plan – Add Alternate**

B. **REPLACE** the following Drawing:

1. **C2.1 – Demolition, Erosion and Sediment Control Plan**
2. **C3.1 – General Plan**
3. **C4.1– Grading Plan**

B. **REVISE** Drawing A1.2, as follows:

1. **Add Note** "**Roof Elevations are measured to the finished face of the membrane roof. Contractor to coordinate roof assembly thickness for steel elevations."**

1.04 QUESTIONS AND ANSWERS

1. Regarding the project CCRI Entry Ramp Enclosure Solicitation # 7597638 on Drawing E5.0 Fire Alarm Floor Plan General Note. Please provide the contact information on the Contractor presently responsible for the existing warranty on the fire alarm system.

   Response:

   ENCORE: Ernie Mellin 401-753-0632 (office), 781-996-1805 (cell)

   Fire Systems Inc (FSI): Gary Lanowy 401-383-3100 (office), 508-328-5461 (cell)

2. Please advise location of laydown areas. Nothing shown on drawings.

   Response: Laydown area may be established under the ramp without impacting emergency access for rescue vehicles and pedestrian paths. Contractor is responsible to provide safe means of entry and egress in accordance with Section 01 1000 Attachment A. A detailed site utilization plan by the contractor to be submitted for review and approval.

3. We seem to be missing drawing A4.8 Ceiling Details. Drawing A4.6 was included twice.

   Response: Drawing A4.8 is issued as part of this addendum.

4. Reference drawing A2.0: Please verify that height of the screen surrounding the HVAC unit is to be 5'-0".

   Response: Metal screen with gate around the HVAC unit is to be 5'-0" high.

5. Reference Details 3, 4 and 7/A4.5: Please clarify the extent of the metal soffit (Section 076100) below the existing ramp. Does it start at column line 4 (Section 8/A3.2), continue past column line R11 (Section 6/A3.2) and end at the existing foundation wall just before column line R12?

   Response: Sheet metal ceiling panels (Section 07 6100) on the underside of the existing ramp extend from the existing foundation wall just before column line R12 up to the point where the ramp meets the existing building 2nd floor (beyond column line 4).

6. Reference Detail8/A4.5: Please clarify where this would occur? Nothing mentioned in alternate section or on bid form.

   Response: This alternate has been identified in the updated Bid Form issued as part of Addendum #1

1.04 ADDITIONAL CLARIFICATIONS

1. Telecom cable Mohawk 6e as described on Drawing E6.0 is acceptable.
2. Drawing E4.0 calls for Belden cable from a new PIM to the existing data closet panel for access control. Existing data closet location is indicated on Sheet E2.0.
3. College is providing Cisco switch and the setup identified on Drawing E4.0, Vendor is to provide a location and mounting brackets for the switch.
4. GBIX is eliminated, Vendor to provide fiber optics between data closets and location for the switch. Wiring needs to be terminated to the switch.
5. Hubbell RE4X would be located over ceiling panel type E (see Drawing A1.4). Ceiling height above this panel is adequate to accommodate the 42" enclosure.
6. Contractor is responsible for licenses of all PIM and CCTV installations.

7. Unit prices for unsuitable material removal and replacement includes OSHA compliant procedures and shoring as required.
8. **Contract time**: As identified in the Bid Form, Final Completion shall be within 365 calendar days from issue date of CCRI PO. However, the ramp may not be taken offline until contractor is ready to perform onsite activities continuously until completion of construction. All costs of winter conditions and/or overtime required to meet this schedule shall be included in the Base Bid.
9. All stains on exposed concrete within L.O.D. (limit of disturbance) to be removed per Specification Section 03 7300. This includes existing concrete walls exposed under ramp.
10. Bid Form: Added Alternates:

- Add Alternate 2 - Theatre Entrance Hardscape Connector
- Deduct Alternate 3 - Cement Board finish system along underside of Existing Ramp

(reference detail 8/A4.5)

END OF SECTION

State of Rhode Island
Division of Purchases
One Capitol Hill
Providence, RI 02908

"NON-MANDATORY" PRE-BID CONFERENCE SIGN IN SHEET

BID NUMBER: 7597638

BID TITLE: CCRI Entry Ramp Enclosure

PRE-BID DATE AND TIME: 12/5/18 @ 9:00 AM

Purchasing Representative:
Gary P. Mosca
NON-Mandatory Pre-bid START TIME:
9:00 AM
NON-Mandatory Pre-bid END TIME:
9:37 AM 9:37 AM EDT

	COMPANY NAME	COMPANY REPRESENTATIVE	SIGNATURE	ADDRESS	CONTACT E-MAIL	CONTACT PHONE NUMBER
1	State of Rhode Island	Gary P. Mosca	Gary P. Mosca	One Capitol Hill, Providence, RI 02908	gary.mosca@purchasing.ri.gov	401-574-8124
2	CCRI	MARK Ciboth	Mark Ciboth			
3	CCRI	MICHAEL ARCHETTO	Michael Archetto			
4	Bentley	PAUL TIERNEY	[illegible]	450 OLD BAPTIST RD North KINGSTOWN, RI	P.tierney@Bentleybuildings LLC.com	295-2022
5	Bluestikes CO	Louis Rivers	[illegible]	514 River Rd Lincoln, RI	estimating@bluestikes[illegible]	401-585-0966
6	PD Preservation	Gerald ST. Angelo	[illegible]	10 Worth Avenue Cranston, RI	Ron.Piodati@verizon.n	401-781-[illegible]
7	AHLBORG	JIM PLANTE	[illegible]	355 CENTERVILLE RD WARWICK, RI	JPLANTE@AHLBORG.com	401-681-4949
8	E.W. BURMAN	BEN PESATURO	Ben Pesaturo	33 VERMONT AVE. WARWICK, RI 02888	estimating@ewburman.com	401-738-5400
9	BTGA	Barbara J. Thornton, AIA	[illegible]	150 Chestnut St. Prov. RI 02903	barbara@brewsterthornton.com	401-861-1600
10	BTGA	Anjali Dole	[illegible]	150 Chestnut St Prov. RI 02903	anjalid@brewsterthornton.	"
11	NADEAU	MARK MENARD	[illegible]	127 WASHINGTON ST ATTLEBORO, MA 02703	mmenard@nadeauco.com	508-399-6716
12	CCRI	Lisa Tomlin	[illegible]			
13	TOWER	DERRICK PAPA	[illegible]	10 S. Industrial Dr Cranston, RI 02921	estimating@towerconstructioncorp.com	401.943.0110
14	JG Edwards Construction Co., Inc.	James Edwards	[illegible]	120 Hargraves Dr Portsmouth RI 02871	jedwards@jgedwardsconstruction.com	401-683-9110
15	Doctor Colors Painting	Joseph Chaplon	[illegible]	250 Merlin Rd North Attleboro MA	Miley ASC33@gmail.com	774 606 7319

VENDOR: PLEASE SUBMIT A BUSINESS CARD IF AVAILABLE

BREWSTER THORNTON GROUP ARCHITECTS, LLP 401.861.1600
150 Chestnut Street, Providence, RI 02903 fax 401.861.5588

COMMUNITY COLLEGE OF RHODE ISLAND
RELOCATED ENTRY STAIR

Date:	December 05, 2018
Solicitation No.:	7597638
Distribution:	Addendum #1

A pre-bid meeting was held to review the Entry Ramp Enclosure project with interested parties. The following comments were noted:

GENERAL

1. Documents are available on the State Purchasing website.
2. Bid opening is rescheduled for **January 9th, 2019 at 1:00PM**. Bids due to the State Purchasing office before that time.

SCOPE OF WORK

The Project includes but is not limited to the following types of work, as further described in the Contract Documents:

1. Structural repairs of the existing entry ramp including removal of existing steel guardrail system and concrete guard wall and waterproofing of the ramp surface.
2. Concrete topping compound over existing ramp structure to meet ADA compliant slopes.
3. Enclose existing ramp to create interior conditioned space with an entrance vestibule addition. Insulated metal panels over metal studs form the exterior walls of the ramp enclosure with a sloped membrane roof. A standing seam metal roof over the entrance vestibule is proposed with spray foam insulation concealed with a Portland cement plaster over metal lath on the interior surface.
4. Concrete site steps and HC ramp connect the entrance vestibule to the existing plaza.
5. State BCI checks will be required.
6. Encore must be used for all sprinkler and Fire Alarm work.

USE OF PREMISES

1. The facility will be fully occupied during the period of construction.
2. Provide access to and from site as required by law and by Owner. Building Entrance and Emergency Exits During Construction: Ramp will be closed during the project. Provide appropriate detour signage. Keep all other exits open during construction period; provide temporary exit signs if exit routes are temporarily altered. See Attachment A plan at end of this section for areas to protect in accordance with Section 01 5000. Update egress plans as required for College approval.
3. Vendor is responsible for removing all project debris off site daily including all costs associated with waste containers and proper disposal of waste. The College will provide an exterior location for the temporary placement of a waste container.

ALLOWANCES

1.	Additional Concrete Repair Allowance (Beyond scope described in Base Bid)	$20,000.00
2.	Unknown Concealed Repairs Allowance	$50,000.00
3.	Additional Sitework modifications per College Allowance	$20,000.00
4.	Unit Price Civil Rock/Unsuitable Removal Allowance	$10,000.00
5.	Misc. Additional Interior Work per College Allowance	$40,000.00
6.	Storm Water Investigation Allowance	$10,000.00

ALTERNATE

1. Collapsible Bollards
2. Extended Storm Drainage

UNIT PRICES

1. Trench Rock Removal/Replace: One Hundred Sixty Dollars per Cubic Yard, $160/CY
2. Bulk Rock Removal/Replace: Seventy Dollars per Cubic Yard, $70/CY
3. Unsuitable Fill Removal/Replace: Fifty Dollars per Cubic Yard, $50/CY
4. Concrete spall repair: Ninety-five Dollars per 1" depth over One Square Foot, $95/SF

SCHEDULE

1. Onsite work can begin 30 calendar days after issue date of CCRI PO.
2. Final completion shall be within 365 days from date of CCRI PO issuance allowing the Contractor the option of working through the winter or not, and including winter conditions or summer overtime if required, or both, in order to meet the schedule within the Base Bid price.

QUESTIONS (All Questions are to be formally be submitted to Purchasing)

1. See Addendum #1 for official questions and answers.

END OF MEETING

If any of the above is inconsistent with your understanding, or this meeting memo fails to document any items discussed, please contact our office immediately.

DRAFT AIA® Document A101™ – 2017
Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

AGREEMENT made as of the « » day of « » in the year « »
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address, telephone and facsimile numbers, and website)

«State of Rhode Island, acting by and through the Department of Administration, Division of Purchases, on behalf of the User Agency»
«One Capitol Hill, Second Floor»
«Providence, Rhode Island 02908-5855»
«401.578.8100 (telephone); 401.574.8387 (facsimile)»
«www.puchasing.ri.gov»

on behalf of the User Agency:
(Name, legal status, address, telephone and facsimile numbers, and website)

« »
« »
« »
« »
« »

and the Contractor:
(Name, legal status, address, telephone and facsimile numbers, and website)

« »
« »
« »
« »
« »

for the following Project:
(Name, location and detailed description)

« »
« »
« »

The Design Agent:
(Name, legal status, address, telephone and facsimile numbers, and website)

« »
« »
« »
« »
« »

ADDITIONS AND DELETIONS: The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

The parties should complete A101™–2017, Exhibit A, Insurance and Bonds, contemporaneously with this Agreement. AIA Document A201™–2017, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

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User Notes: (3B9ADA24)

The Owner and Contractor agree as follows.

DRAFT

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TABLE OF ARTICLES

1 THE CONTRACT DOCUMENTS

2 THE WORK OF THIS CONTRACT

3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

4 CONTRACT SUM

5 PAYMENTS

6 DISPUTE RESOLUTION

7 TERMINATION OR SUSPENSION

8 MISCELLANEOUS PROVISIONS

9 ENUMERATION OF CONTRACT DOCUMENTS

EXHIBIT A INSURANCE AND BONDS

ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General Conditions, Supplementary Conditions (if any), and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement, and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others. No part of the Work shall be performed by Subcontractors without the Owner's prior written consent.

ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be the later of: (i) the issuance of the Purchase Order by the Owner; and (ii) the date set forth in a notice to proceed issued by the User Agency.

§ 3.2 The Contract Time shall be measured from the date of commencement of the Work.

§ 3.3 Substantial Completion

§ 3.3.1 Subject to adjustments of the Contract Time as provided in the Contract Documents, the Contractor shall achieve Substantial Completion of the entire Work:
(Check one of the following boxes and complete the necessary information.)

[« »] Not later than « » (« ») calendar days from the date of commencement of the Work.

[« »] By the following date: « »

§ 3.3.2 Subject to adjustments of the Contract Time as provided in the Contract Documents, if portions of the Work are to be completed prior to Substantial Completion of the entire Work, the Contractor shall achieve Substantial Completion of such portions by the following dates:

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Portion of Work	Substantial Completion Date
« »	

§ 3.3.3 If the Contractor fails to achieve Substantial Completion as provided in this Section 3.3, liquidated damages, if any, shall be assessed as set forth in Section 4.5.

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. Subject to additions and deductions as provided in the Contract Documents, the Contract Sum shall be: $_____.

§ 4.2 Alternates

§ 4.2.1 Alternates, if any, included in the Contract Sum:

Item	Price
« »	

§ 4.2.2 Subject to the conditions noted below, the following alternates may be accepted by the Owner following execution of this Agreement. Upon acceptance, the Owner shall issue a Modification to this Agreement.
(Insert below each alternate and the conditions that must be met for the Owner to accept the alternate.)

Item	Price	Conditions for Acceptance
« »		

§ 4.3 Allowances, if any, are specified in the Bid Proposal Form and are included in the Contract Sum.

§ 4.4 Unit prices, if any, are specified in the Bid Proposal Form and include all costs, including without limitation, labor, materials, services, regulatory compliance, overhead, and profit necessary for the completion of the Work. Unit prices shall be used for both additions to, and deletions from the Work.

§ 4.5 Liquidated damages, if any:
(Insert terms and conditions for liquidated damages, if any.)

«.1 In the event that there is one date for Substantial Completion of the Work, the Contractor shall pay the Owner the sum stipulated in this Section 4.5.1 as liquidated damages, and not as a penalty, for each calendar day of delay until the Work is substantially complete: $_____.

.2 In the event that the Project is scheduled to be completed in phases, and there is more than one date for Substantial Completion of the Work, the Contractor shall pay the Owner an aggregate amount equal to the sums stipulated in this Section 4.5.2 as liquidated damages, and not as a penalty, for each calendar day of delay until the Work for each phase is substantially complete:

Phase	**Liquidated Damages Sum**

.3 The Owner and the Contractor have reasonably determined the sums set forth in this Section 4.5 to be a fair estimate of the Owner' actual damages which are difficult to ascertain in the event of delay.»

§ 4.6 Other:

The Owner shall not be liable to the Contractor or any Subcontractor for claims or damages of any nature caused by or arising out of any delays. The sole remedy against the Owner for delays shall be the allowance of additional time for completion of the Work.

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ARTICLE 5 PAYMENTS

§ 5.1 Progress Payments

§ 5.1.1 Based upon Applications for Payment submitted to the Design Agent by the Contractor and Certificates for Payment issued by the Design Agent and approved by the Owner in writing, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 5.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month.

§ 5.1.3 The Owner shall make payment of the certified amount, less retainage, to the Contractor not later than the 30th working day following written approval by the Owner.

§ 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor and approved by the Design Agent and the Owner in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form, and supported by such data to substantiate its accuracy, as the Design Agent and the Owner may require. This schedule of values shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.6 In accordance with AIA Document A201™–2007, General Conditions of the Contract for Construction, and subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

§ 5.1.6.1 The amount of each progress payment shall first include:

.1 That portion of the Contract Sum properly allocable to completed Work;

.2 That portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction, or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing; and

.3 That portion of Construction Change Directives that the Design Agent determines, in the Design Agent's professional judgment, to be reasonably justified.

§ 5.1.6.2 The amount of each progress payment shall then be reduced by:

.1 The aggregate of any amounts previously paid by the Owner;

.2 The amount, if any, for Work that remains uncorrected and for which the Design Agent has previously withheld a Certificate for Payment as provided in Article 9 of AIA Document A201–2007;

.3 For Work performed or defects discovered since the last payment application, any amount for which the Design Agent may withhold payment, or nullify a Certificate of Payment in whole or in part, as provided in Article 9 of AIA Document A201–2007; and

.4 Retainage withheld pursuant to Section 5.1.7.

§ 5.1.7 Retainage

§ 5.1.7.1 For each progress payment made prior to Substantial Completion of the Work, the Owner may withhold the following amount, as retainage, from the payment otherwise due: five (5%) percent.

§ 5.1.7.1.1 **Deleted.**

§ 5.1.7.2 **Deleted.**

§ 5.1.7.3 Except as set forth in this Section 5.1.7.3, upon Substantial Completion of the Work, the Contractor may submit an Application for Payment that includes the retainage withheld from prior Applications for Payment pursuant to this Section 5.1.7. The Application for Payment submitted at Substantial Completion shall not include retainage as follows:

(Insert any other conditions for release of retainage upon Substantial Completion.)

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The amount of five (5%) percent shall be retained by the Owner until the first anniversary of final completion of the Work.

§ 5.1.8 If final completion of the Work is materially delayed through no fault of the Contractor, the Owner shall pay the Contractor any additional amounts in accordance with Article 9 of AIA Document A201–2007.

§ 5.1.9 Except with the Owner's prior written approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

§ 5.1.10 Within 10 working days of receipt of any progress payment from the Owner, the Contractor must pay its Subcontractors the full amount included for each such Subcontractor within the Contractor's Application for Payment in accordance with the provisions of AIA A201 – 2007, General Conditions of the Contract for Construction.

§ 5.2 Final Payment

§ 5.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, less the amount withheld pursuant to § 5.1.7.3, shall be made by the Owner to the Contractor when:

.1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Article 12 of AIA Document A201–2007, and to satisfy other requirements, if any, which extend beyond final payment; and

.2 a final Certificate for Payment has been issued by the Design Agent and approved in writing by the Owner;

.3 the Contractor has submitted its final release and final releases from all of its Subcontractors and suppliers in a form acceptable to the Owner; and

4 the Contractor has submitted to the Owner all close-out documents, including without limitation, all as-built plans, warranties, manuals, and other materials set forth in the Contract Documents.

§ 5.2.2 The Owner's final payment to the Contractor shall be made no later than 30 working days after the issuance of the Design Agent's final Certificate for Payment and written approval by the Owner.

§ 5.3 Interest

Payments due and unpaid under the Contract shall bear interest from the date payment is due in accordance with the provisions of "Prompt Payment by Department of Administration," R.I. Gen. Laws §§ 42-11.1-1 et seq.

§ 5.4 Owner's Rights

§ 5.4.1 The Owner shall have the right to deduct from any payments due to the Contractor the amount of any unpaid obligations owed to the State of Rhode Island by the Contractor, including without limitation, any and all unpaid taxes, the amount of any claim against the Contractor arising out of this Agreement, or any amount on account of any other reason permitted by applicable law.

ARTICLE 6 DISPUTE RESOLUTION

§ 6.1 Initial Decision Maker

Claims shall be referred to the Initial Decision Maker for initial decision. The Purchasing Agent appointed pursuant to the provisions of the "State Purchases Act," R.I. Gen. Laws § 37-2-1 et seq., will serve as the Initial Decision Maker in accordance with the provisions of the State Purchases Act, State of Rhode Island Procurement Regulations, and this Section 6.1. An initial decision shall be required as a condition precedent to binding dispute resolution pursuant to Section 6.3 of any Claim arising prior to the date final payment is due.

§ 6.2 Mediation

For any Claim not resolved by the Initial Decision Maker procedures set forth in Section 6.1, and prior to the implementation of the binding dispute resolution procedures set forth in Section 6.3, the Contractor shall have the option to pursue mediation, exercisable by written notice to the Owner within 30 calendar days of an Initial Decision. In the event of the exercise of such option by the Contractor, the Owner and the Contractor shall attempt to select a mediator, and in the event that the Owner and the Contractor cannot agree on a mediator, either party may apply in writing to the Presiding Justice of the Providence County Superior Court, with a copy to the other, with a request for the court to appoint a mediator, and the costs of the mediator shall be borne equally by both parties.

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§ 6.3 Binding Dispute Resolution

For any Claim not resolved by the Initial Decision Maker procedures set forth in Section 6.1, or mediation at the option of the Contractor pursuant to Section 6.2, the method of binding dispute resolution shall be determined in accordance with the provisions of the "Public Works Arbitration Act," R.I. Gen. Laws §§ 37-16-1 et seq.

ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201–2007. The Contract may also be terminated by the Owner: (i) in the event of the unavailability of appropriated funds; (ii) in the absence of a determination of continued need; or (iii) as otherwise provided in the State of Rhode Island Procurement Regulations General Conditions of Purchase or other applicable law.

§ 7.1.1 **Deleted.**

§ 7.2 The Work may be suspended by the Owner as provided in: (i) the State of Rhode Island General Conditions of Purchase Regulation or other applicable law; or (ii) Article 14 of AIA Document A201–2007.

ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201–2007 or another Contract Document, the reference refers to: (i) the AIA Document A201 – 2007 or other Contract Document as modified by the Owner; and (ii) that provision in the AIA Document A201 – 2007 or other Contract Document as amended or supplemented by other provisions of the Contract Documents.

§ 8.2 Representatives for the Owner

§ 8.2.1 The Owner's representative:

(Name, title, address, email address, and other information for the preferred methods of contact)

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§ 8.2.2 The User Agency's representative:

(Name, title, address, email address, and other information for the preferred methods of contact)

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§ 8.2.3 The Design Agent's representative:

(Name, title, address, email address, and other information for the preferred methods of contact)

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§ 8.3 The Contractor's representative:

(Name, title, address, email address, and other information for the preferred methods of contact)

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§ 8.4 Neither the Owner's nor the Contractor's representative nor the Design Agent's representative shall be changed without 10 working days' prior notice to the other party.

§ 8.5 Insurance and Bonds

§ 8.5.1 The Owner and the Contractor shall purchase and maintain insurance as set forth in the Solicitation and elsewhere in the Contract Documents.

§ 8.5.2 The Contractor shall provide bonds as set forth in the Solicitation and elsewhere in the Contract Documents.

§ 8.6 **Deleted.**

§ 8.7 Other provisions:

§ 8.7.1 The Contractor represents and warrants to the Owner, in addition to any other representations and warranties of the Contractor elsewhere in the Contract Documents:

.1 The Contractor and its Subcontractors are each financially solvent, able to pay their debts as they mature, and possess sufficient working capital to perform their obligations under the Contract Documents.

.2 The Contractor and its Subcontractors are each able to furnish the tools, materials, equipment, and labor required to complete the Project as required under the Contract Documents.

.3 The Contractor and each Subcontractor are authorized to do business in the State of Rhode Island and are properly licensed by all necessary governmental authorities having jurisdiction over them and over the Work and the Project.

.4 The execution of this Agreement and its performance is within its duly authorized powers.

.5 The Contractor has visited the site of the Project, familiarized itself with the local and special conditions under which the Work is to be performed, and correlated its observations with the requirements of the Contract Documents.

.6 The Contractor possesses the requisite level of experience and expertise in the business administration, construction, and superintendence of projects of the size, complexity, and nature of the Project, and it will perform the Work with the care, skill, and diligence of a contractor possessing such experience and expertise.

§ 8.7.2 The representations and warranties of the Contractor in this Section 8.7 and elsewhere in the Contract Documents will survive the execution and delivery of this Agreement, any termination of this Agreement, and the final completion of the Work.

§ 8.7.3 Any Change Orders or other Modifications must be approved in writing by the Owner.

§ 8.7.4 The Owner is the State of Rhode Island, acting by and through its Department of Administration, Division of Purchases, and therefore, pursuant to the provisions of R.I. Gen. Laws § 34-28-31, mechanics liens may not be placed against the Project.

ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 This Agreement is comprised of the following documents:

.1 AIA Document A101™–2017, Standard Form of Agreement Between Owner and Contractor, as modified by the Owner

.2 **Deleted.**

.3 AIA Document A201™–2007, General Conditions of the Contract for Construction, as modified by the Owner.

.4 **Deleted.**

.5 Drawings

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The Drawings are included in the Solicitation and are available on the Division of Purchases website at www.purchasing.ri.gov.

.6 Specifications

The Specifications are included in the Solicitation and are available on the Division of Purchases website at www.purchasing.ri.gov.

.7 Addenda, if any, issued pursuant to the Solicitation form a part of the Solicitation and are available on the Division of Purchases website at www.purchasing.ri.gov.

.8 Supplementary and other Conditions of the Contract, including without limitation, the State of Rhode Island General Conditions of Purchase Regulation.

.9 Other documents listed below:

.1 The Solicitation, issued by the Owner, including without limitation, the Invitation to Bid, the Instructions to Bidders, the Specifications and Drawings, any Addenda, and the Bid Checklist.

.2 The Bid Proposal, including without limitation, the Bid Form and the Bidder Certification Cover Form.

.3 The Purchase Order issued by the Owner.

§ 9.2 This Agreement and the Contract Documents are subject to, and governed by, the laws of the State of Rhode Island, including all procurement statutes and regulations (available at www.purchasing.ri.gov), and applicable federal and local law, all of which are fully incorporated into this Agreement by this reference.

§ 9.3 In the event of any conflict between or among the Contract Documents, or any Contract Documents and any provision of the State of Rhode Island Procurement Regulations and/or any other provision of the Rhode Island General Laws, the State of Rhode Island Procurement Regulations and the Rhode Island General Laws shall control.

ARTICLE 10 BENEFITS OF AGREEMENT

§ 10.1 The User Agency is a disclosed third-party beneficiary of this Agreement and shall have all of the rights and benefits hereunder to which such a party is entitled. Nothing contained in this Agreement shall create a contractual relationship with, or a cause of action in favor of, any other third party against the Owner or the User Agency.

§ 10.2 This Agreement shall be binding on the Contractor and its successors and assigns; provided, however, that the Contractor may not assign its rights nor delegate its responsibilities under this Agreement without the Owner's prior written consent.

This Agreement is entered into as of the day and year first written above; provided, however, that this Agreement shall not become a valid, binding, and enforceable contract unless and until the Owner shall have issued a Purchase Order.

«**THE STATE OF RHODE ISLAND, acting by and through its Department of Administration, Division of Purchases**»	« »
OWNER *(Signature)*	CONTRACTOR *(Signature)*
« »« »	« »« »
(Printed name and title)	*(Printed name and title)*

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SECTION 05 7510
PERFORATED METAL PANEL SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes: Perforated Aluminum fence, gates with associated hardware.

B. Perforated metal sheet panels used to fabricate screens.

C. Posts

D. Gates (Double-swing)

E. Associated hardware

1.02 REFERENCES

A. ASTM International (ASTM):
1. ASTM A123 - Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
2. ASTM A167 - Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
3. ASTM A283 - Low and Intermediate Tensile Strength Carbon Steel Plates.
4. ASTM A653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
5. ASTM B122 - Copper-Nickel-Tin Alloy, Copper-Nickel-Zinc Alloy (Nickel Silver), and Copper-Nickel Alloy Plate, Sheet, Strip, and Rolled Bar.
6. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.
7. ASTM B248 - Wrought Copper and Copper-Alloy Plate, Sheet, Strip, and Rolled Bar.
8. ASTM B370 - Copper Sheet and Strip for Building Construction.

1.03 SUBMITTALS

A. Provide in accordance with Section 01 33 00 - Submittal Procedures:
1. Product data for perforated metal panels and finish.
2. Sample: 8 by 10 inches [203 by 254 mm] minimum size sample of screen in selected perforation pattern and finish.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Basis of Design: Ametco Manufacturing Corporation, 4326 Hamann Parkway, P.O. Box 1210, Willoughby, Ohio 44096; 800-362-1360.

B. Requests to use equivalent products of other manufacturers shall be submitted in accordance with Section 01 3300 - Product Substitution Procedures.

2.02 PERFORATED METAL PANELS

A. Type: Concord

B. Material: ASTM B209, Alloy 6063, Temper T-6 aluminum.
1. Thickness: 0.125”.
2. Sheet size: Refer to architectural drawings.

C. Panel shape and size: Per approved shop drawings.

D. Perforations:
1. Round: ½” diameter holes spaced at 11/16” centers in straight line.

E. End pattern: Finished.

F. Margins: Provide perforated panels with 3” end margin and 3” side margin.

G. Equip panels with perimeter welded metal frames, detailed and dimensioned per approved shop drawings.

2.03 FACTORY FINISH

A. Provide perforated metal fabricated panels with:
   1. Polyurethane coating:
      a. Thermoset enamel with 1.0 mil dry film thickness.
      b. Color: Selected by Architect from manufacturer's standard range.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Preparation: Prior to panel fabrication, field verify required dimensions.

B. Provide perforated metal panels and other materials specified in this Section for fabrication of screen with gates.

C. Install in accordance with manufacturer's installation instructions and approved shop drawings.

D. After installation, touch-up damaged finish with paint supplied by manufacturer and matching original coating.

END OF SECTION

SECTION 07 24 23
CEMENT BOARD FINISH SYSTEM

PART I - GENERAL

1.01 SUMMARY:
A. Exterior Cement Board Finish System for underside of existing concrete ramp structure as part of Deduct Alternate #3.

1.02 RELATED SECTIONS
A. Project Meetings – Section 01 31 19
B. Cold-Formed Metal Framing – Section 05 40 00
C. Flashing and Sheet Metal – Section 07 60 00
D. Joint Protection – Section 07 90 00

1.03 REFERENCES
A. AC59 Acceptance Criteria for Direct-Applied Exterior Finish Systems.
B. AC148 Acceptance Criteria for Flashing Materials.
C. ASTM B 117 (Federal Test Standard 141A Method 6061) Test Method of Salt Spray (Fog) Testing.
D. ASTM C 79 Specification for Gypsum Sheathing Board.
E. ASTM C 150 Specification for Portland Cement.
F. ASTM C 297 Test Method for Tensile Strength of Flat Sandwich Constructions in Flatwise Plane.
G. ASTM C 1177 Specification for Glass Mat Gypsum Substrate for Use as Sheathing.
H. ASTM C 1325 Standard Specification for non-asbestos fiber-mat reinforced cementitious backer units.
I. ASTM C 1516 Standard Practice for Application of Direct-Applied Exterior Finish Systems.
J. ASTM D 968 (Federal Test Standard 141A Method 6191) Test Method for Abrasion Resistance of Organic Coatings by Falling Abrasive.
K. ASTM D 2898 Standard Test Method for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing
L. ASTM D 3273 Test Method for Resistance to Growth of Mold on Surfaces.
M. ASTM E 84 Test Method for Surface Burning Characteristics of Building Materials.
N. ASTM E 96 Test Methods for Water Vapor Transmission of Materials.
O. ASTM G 23 (Federal Test Standard 141A Method 6151) Recommended Practice for Operating Exposure Apparatus (Carbon-Arc Type) With and Without Water, for Exposure of Nonmetalic Materials.

1.04 SUBMITTALS
A. Submittal requirements by the contractor are to be indicated in the construction documents as required, including:
1. Product literature, samples and mock up.
2. Finish sample indicating color and texture for approval by architect/owner.

1.05 DESCRIPTION
A. Cement Board MD Finish System consisting of base coat with reinforcing mesh, and finish applied over an exterior cement board that is installed over a code approved water-resistive barrier and approved drainage medium.

1. Design Requirements:
a. A sheathing board substrate installed over structural framing prior to installation of a code approved water-resistive barrier shall be one of the following:
1) Exterior sheathing having a water-resistant core with fiberglass mat facers meeting ASTM C 1177.
2) Exterior fiber reinforced cement meeting ASTM C 1325 or calcium silicate boards.
3) APA Exterior or Exposure 1 Rated Plywood, Grade C-D or better, nominal 1/2 in (12.7 mm), minimum, installed with the C face out.
4) APA Exterior or Exposure 1 Fire Retardant Treated (FRT) Plywood, Grade C-D or better, nominal 1/2 in (12.7 mm), minimum, installed with the C face out.

5) APA Exposure 1 Rated Oriented Strand Board (OSB) nominal 1/2 in (12.7 mm), minimum. NOTE: Applications over OSB sheathing requires a minimum of 2 coats of Backstop NT – Smooth or Spray. Backstop NT – Texture is not recommended for the field of wall application over OSB.

b. The outer layer sheathing shall be exterior cement board meeting ASTM C 1325, minimum 1/2 in (12.7 mm).

c. The roofing materials shall be loaded onto the roof and interior wallboard stocked in the building prior to the installation of the Cement Board MD Finish System.

d. Deflection of substrate systems shall not exceed L/360.

e. The slope of inclined surfaces shall not be less than 6:12 (27°) and the length shall not exceed 12 in (305 mm).

f. Expansion joints:

1) Design and location of expansion/control joints in the substrate shall be determined by the project design professional and indicated on the contract documents. As a minimum, joints in Cement Board MD Finish System are required at the following locations:

a) Where expansion joints occur in the substrate system

b) Where building expansion joints occur

c) At floor lines in wood frame construction

d) Where Cement Board MD Finish System abuts dissimilar materials

e) Where the substrate changes

f) Where significant structural movement occurs such as changes in roofline, building shape or structural system

g. Control joints:

1) Design and location of control joints shall be determined by the design professional. As a minimum, control joints shall be located at the following locations:

a) Corners of openings.

b) Such that wall lengths do not exceed 20 ft (6 m).

c) Length to width ratios of wall areas shall not exceed 2.5:1.

h. Sealants

1) Use and location of sealants is the responsibility of the project designer and shall be indicated on the contract documents.

2) Refer to Section 07 90 00.

i. Vapor Retarders

1) Use and location of vapor retarders within a wall assembly is the responsibility of the project designer and shall comply with local building code requirements. Type and location shall be noted on the contract documents. Vapor retarders may be inappropriate in certain climatic zones and can result in condensation within the wall assembly when incorrectly used.

j. Flashing

1) Flashing: shall be provided at all roof-wall intersections, windows, doors, chimneys, decks, balconies, and other areas as necessary to prevent water penetration behind Cement Board MD Finish System.

k. Site Coated EPS Shapes and Starter Boards: Shall be coated on site utilizing the same materials (EPS, base material mixture, reinforcing mesh, and finish) as specified for the project.

l. Pre Base Coated EPS Shapes and Starter Boards: Shall be supplied by Acrocore or other approved shape manufacturer.

2. Performance Requirements: As a minimum, the Cement Board MD Finish System products shall be tested as follows:

a. ASTM B 117: Salt Spray Resistance – 300 hrs, no deleterious effects.

b. ASTM C 297 Bond Strength – Failure in the substrate.

c. ASTM D 968: Abrasion Resistance – 132 gal (500 L), no deleterious effects.

d. ASTM D 3273 Mildew/Fungus Resistance

e. ASTM E 84 Flame Spread – Flame Spread Index less than 25, Smoke Developed less than 250.

f. ASTM E 96 Water Vapor Transmission – Vapor Permeable.

g. ASTM G 23 Accelerated Weathering – 2000 hrs

1.06 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer: Shall be Dryvit Systems, Inc. or approved suppliers. All materials shall be obtained from Dryvit Systems, Inc. or its authorized distributors.
2. Material shall be manufactured at a facility covered by a current ISO 9001:2015 and ISO 14001:2015 certification. Certification of the facility shall be by a registrar accredited by the American National Standards Institute-Registrar Accreditation Board (ANSI-RAB).
3. Plastering Contractor:
   a. Shall be knowledgeable in the proper installation of Cement Board Finish System components.
   b. Shall have qualified and properly trained people to perform work.
   c. Shall be licensed, bonded and insured.
   d. Shall have experience in application of direct-applied exterior finish systems on projects of comparable scope.
4. Third Party Inspection
   a. Owner's independent third-party inspection is recommended to verify installation according to code and contract documents. It is recommended that as a minimum, inspection items include installation of the water-resistive barrier, flashings and accessories, Cement Board MD Finish System materials and sealants. The intent is to verify that the installation has been performed in accordance with code requirements, contract requirements and this specification.
5. Machine Coated Dryvit EPS Shapes and Starter boards: Shall be supplied by Acrocore or other manufacturer that subscribes to the Dryvit third party certification and quality assurance program.

B. Mock-Up
1. The contractor shall, before the project commences, provide the owner/architect with a mock-up for approval.
2. The mock-up shall be of suitable size as required to accurately represent each color and texture to be utilized on the project.
3. The mock-up shall be prepared with the same products, tools, equipment and techniques required for the actual applications. The finish used shall be from the same batch as that being used for the project.
4. The approved mock-up shall be available and maintained at the job site.

1.07 DELIVERY, STORAGE AND HANDLING

A. All materials shall be delivered to the job site in the original, unopened packages with labels intact.

B. Upon arrival, materials shall be inspected for physical damage, freezing or overheating. Questionable materials shall not be used.
1. Materials shall be stored at the job site, and at all times, in a cool, dry location, out of direct sunlight, protected from weather and other sources of damage. Minimum storage temperature shall be as follows:
   a. DPR, PMR™, HDP™, Weatherlastic® and E™ Finishes, Color Prime™, Primus®, Genesis® and NCB™,
   40 °F (4 °C).
   b. For other products, refer to specific product data sheets.
2. Maximum storage temperature shall not exceed 100 °F (38 °C). NOTE: Minimize exposure of materials to temperatures over 90 °F (32 °C). Finishes exposed to temperatures over 110 °F (43 °C) for even short periods may exhibit skinning, increased viscosity and should be inspected prior to use.

C. Protect all products from inclement weather and direct sunlight.

1.08 PROJECT CONDITIONS

A. Environmental Requirements
1. Application of wet materials shall not take place during inclement weather unless appropriate protection is provided. Protect materials from inclement weather until they are completely dry.
2. At the time of Dryvit product application, the air and wall surface temperatures shall be from 40 °F (4 °C) minimum to 100 °F (38 °C) maximum for the following products:
   a. DPR, PMR, HDP, Weatherlastic and E Finishes, Color Prime, Primus, Genesis and NCB.
   b. For other products, refer to specific product data sheets.
3. These temperatures shall be maintained with adequate air ventilation and circulation for a minimum of 24 hours (48 hours for Weatherlastic Finishes, Ameristone, and TerraNeo) thereafter, or until the products are completely dry. Refer to published product data sheets for more specific information.

1.09 SEQUENCING AND SCHEDULING

A. Installation of Cement Board MD Finish System shall be coordinated with other construction trades.

1.10 WARRANTY

A. Dryvit Systems, Inc. shall provide a written limited materials warranty against defective material upon written request.

B. The applicator shall warrant workmanship separately.

1.11 MAINTENANCE

A. All Dryvit products are designed to require minimal maintenance. However, as with all building products, depending on location, some cleaning and minimal maintenance may be required.

B. Sealants and flashings shall be inspected by the owner or their agent on a regular basis and repairs made as necessary.

PART II-PRODUCTS

2.01 MANUFACTURER:

A. Basis of Design: Cement Board MD Finish System from Dryvit or approved equal.

2.02 MATERIALS

A. Water-Resistive Barrier (not a component of the Dryvit finish system except for Backstop® NT™).

1. Dryvit Backstop NT: A vapor permeable, flexible, polymer-based noncementitious water-resistive and air barrier coating available in Texture, Smooth, and Spray.
2. Dryvit Backstop NT-VB: A Class 1 vapor retarder, available in trowel and spray versions. When specified, consider having a WVT analysis performed.
3. Dryvit Grid Tape™: A 4 in (102 mm) wide, open weave fiberglass mesh tape used to reinforce sheathing joints and exposed edges of sheathing.
4. Other code approved water-resistive barrier (when selected by others) is not a component of the Dryvit finish system.

B. Dryvit MD Spacer™: A polyethylene spacer, which separates the exterior cement board from the sheathing substrate. If other spacers are used, they are not part of the Dryvit finish system.

C. Exterior Cement Board and cement board fasteners.

D. Dryvit Base Coat

1. Cementitious: A liquid polymer based material, which is field mixed in a 1:1 ratio by weight with Portland Cement.
   a. Shall be Genesis®.
2. Ready mixed: A dry blend cementitious, polymer-based product, field mixed with water.
   a. Shall be Genesis® DM.
3. Sprayable: A dry blend cementitious, polymer-modified product, field mixed with water and specifically formulated for spray applications to provide longer pot life, less false set, extended open time and stronger wet grip.
   a. Shall be Genesis® DMS.

E. Machine Coated Dryvit EPS Shapes and Starter Boards: Shall be supplied by manufacturer that subscribes to the Dryvit third party certification and quality assurance program.

F. Reinforcing Mesh(es): Shall be a balanced open weave, glass fiber fabric treated for compatibility with other system materials.

1. Dryvit Detail Mesh®: 4.3 oz/yd^2 (146 g/m^2), 9 1/2 in (241 mm) wide. Required at all exterior cement board joints and inside and outside corners.
2. Dryvit Standard Mesh: 4.3 oz/yd^2 (146 g/m^2). Shall be installed over the entire exterior cement board face.

G. Dryvit Finish: Shall be the type, color and texture as selected by the owner/architect and shall be one or more of the following:

1. Standard DPR (Dirt Pickup Resistance): Water based, acrylic coatings with integral color and texture and formulated with DPR chemistry:
   a. Quarzputz® DPR: Open-texture pattern.

b. Sandblast® DPR: Medium texture.
c. Freestyle® DPR: Fine texture.
d. Sandpebble® DPR: Pebble texture.
e. Sandpebble® DPR Fine: Fine pebble texture.

2. Hydrophobic (HDP™) Finishes: 100% acrylic coating with integral color and texture and formulated with hydrophobic properties:
   a. Quarzputz® HDP
   b. Sandblast® HDP
   c. Sandpebble® HDP
   d. Sandpebble® Fine HDP
3. E Finishes™: Water-based, lightweight acrylic coatings with integral color and texture and formulated with DPR chemistry:
   a. Quarzputz® E
   b. Sandpebble® E
   c. Sandpebble® Fine E
5. Elastomeric DPR (Dirt Pickup Resistance) Finishes: Water-based, elastomeric acrylic finishes with integral color and texture and formulated with DPR chemistry:
   a. Weatherlastic® Quarzputz
   b. Weatherlastic® Sandpebble
   c. Weatherlastic® Sandpebble Fine
   d. Weatherlastic® Adobe
6. Medallion Series PMR™ (Proven Mildew Resistance) Finishes: Water based, acrylic finishes with integral color and texture:
   a. Quarzputz® PMR
   b. Sandblast® PMR
   c. Freestyle® PMR
   d. Sandpebble® PMR
   e. Sandpebble® Fine PMR
7. Coatings, Primers and Sealers:
   a. Demandit® Smooth
   b. Demandit® Sanded
   c. Demandit® Advantage™
   d. HDP Water-Repellent Coating
   e. Weatherlastic® Smooth
   f. Tuscan Glaze™
   g. Color Prime™
   h. Prymit®
   i. SealClear™

H. Expanded polystyrene (if applicable): Shall be 1 pcf nominal density meeting DS131. EPS must meet the specification of Dryvit Systems, Inc. and be produced by a manufacturer licensed by Dryvit.

I. Accessories.
1. In corrosive environments, accessories manufactured of PVC or zinc are recommended.
2. Steel accessories shall meet ASTM C 841.
3. PVC accessories shall meet ASTM D 1784 and C 1063.

PART III-EXECUTION

3.01 EXAMINATION

A. Prior to installation of the Cement Board MD Finish System, it is the contractor's responsibility to ensure that:
1. The sheathing substrate is of a type listed in Section 1.05 A.2.a.
2. The sheathing substrate and the exterior cement board surface are free of dust, loose particles, oil and other conditions that would affect the adhesion or installation of Cement Board MD Finish System materials.
3. All fasteners are corrosion resistant and installed in a manner as to be flush with the surface of the cement board.

4. All accessories including corner aids, control and expansion joints, casing beads, etc. are properly fastened and positioned according to contract drawings, manufacturer requirements and local building code requirements.
5. The water-resistive barrier is of a proper type and, if sheet form, has been installed in a weatherboard fashion in accordance with building code and manufacturer's requirements.
6. Doors, windows, decks, and other openings and penetrations have been properly flashed in accordance with manufacturer requirements, building code and contract documents.
7. Metal roof flashing has been installed in accordance with Asphalt Roofing Manufacturers Association (ARMA) Standards.
8. The cement board surface is flat within 1/4 in (6.4 mm) in 10 ft (3 m).
9. The contractor shall notify the general contractor and/or owner and/or architect of all discrepancies. Do not proceed until unsatisfactory conditions are resolved.

3.02 PREPARATION

A. The Cement Board MD Finish System materials shall be protected by permanent or temporary means from weather and other damage prior to, during, and following application, until dry.
B. Protect adjoining work and property.

3.03 INSTALLATION

A. Mixing:
1. Backstop NT: Due to shipping and storage, there may be some settling of materials. Prior to using, mix the material to a smooth homogeneous consistency.
2. Dryvit base coat materials shall be mixed in accordance with current Dryvit printed Product Sheets.
   a. Dryvit Genesis shall be mixed in a 1:1 ratio with Portland cement. The mix is allowed to set for 5 minutes and then remixed to break the set. b. Dryvit Genesis DM shall be mixed with water to a uniform consistency, allowed to set for 10 minutes and then remixed to break the set.
   c. Dryvit Genesis DMS shall be mixed with water to a uniform consistency, allowed to set for 5 minutes and then remixed to break the set.
3. Dryvit Finishes:
   a. Dryvit Finishes are factory blended and require no additives. Mix each pail to a uniform consistency adding a small amount of water as needed to adjust workability. Ensure that the same amount of water is added to each pail of the same color.
   b. Refer to the product data sheet for the specific finish being used for more complete instructions.

B. Application of Backstop NT:
1. Prepare the substrate sheathing so as to be free of foreign materials such as oil, dust, dirt, paint, wax, water repellents, moisture, frost and any other materials that may inhibit adhesion.
2. Backstop NT can be applied using a roller, trowel, or spray equipment (with backrolling) over the approved substrates.

C. Installation of Dryvit MD Spacer:
1. Secure the Dryvit MD Spacer to the substrate using corrosion resistant staples through the water-resistive barrier and into the substrate or framing. The spacer is 1/8 in (3.2 mm) thick by 3 in (76 mm) wide and is installed in continuous vertical strips spaced a maximum of 16 in (406 mm) on center installed over each framing member. Additionally, install the spacer flush with the vertical edge of all system terminations and changes in wall direction. If other spacers are used, follow manufacturers' instructions.

D. Install the exterior cement board in accordance with manufacturer's instructions and project requirements.
1. Align sheathing joints with the MD Spacer and install fasteners through the MD Spacer or other spacers as needed.
2. Do not align joints with corners of wall penetrations.
3. Exterior cement board joints shall be offset from sheathing board substrate joints.

E. Foam shape application (if applicable)
1. Adhere EPS shape to exterior cement board prior to applying the base coat.
2. Install in accordance with current Dryvit printed Outsulation® System Application Instructions DS204.

F. Application of Base Coat:
1. Apply Genesis or Genesis DM over all exterior cement board joints and inside and outside corners and embed a 9 1/2 in (241 mm) wide strip of Dryvit Detail Reinforcing Mesh into the wet base coat mixture.
2. Allow the base coat mixture to take up until firm to the touch.
3. Apply a continuous layer of Genesis, Genesis DM or Genesis DMS over the exterior cement board face and embed a layer of Dryvit Standard Reinforcing Mesh into the wet base coat mixture such that the

entire surface of the board is covered. The reinforced base coat shall be applied to a uniform thickness of approximately
1/16 in (1.6 mm) and be sufficient to embed the reinforcing mesh.

4. All edges of reinforcing mesh shall be lapped a minimum of 2 1/2 inches (64 mm).

G. Application of Finishes:
1. Allow the Genesis, Genesis DM or Genesis DMS to cure a minimum of 24 hours until completely dry.
2. Ensure that the surface of the wall is clean, dry and free of any contaminants that may impair the adhesion of surface finish.
3. Dryvit finishes may be either spray or trowel applied.
4. Always apply the finish to a natural break to avoid visible cold joints.
5. Always work the shady side of the wall or provide shading to avoid application in direct sunlight.
6. Dryvit finishes shall be applied in accordance with published Dryvit instructions for the specific finish being used. Refer to the published product data sheet for the specified finish.

H. The installation of Machine Coated Dryvit EPS Shapes and Starter Boards shall be in accordance with Dryvit Publication DS854.

3.04 FIELD QUALITY CONTROL

A. The contractor shall be responsible for the proper application of the Cement Board MD Finish System materials.

B. Dryvit assumes no responsibility for on-site inspections or application of its products.

C. Independent third party inspection is required to verify installation according to code and contract documents. As a minimum, it is recommended that inspection items include installation of the water-resistive barrier, flashings, and accessories, Cement Board MD Finish System materials, and sealants.

3.05 CLEANING

A. All excess Cement Board MD Finish System materials shall be removed from the job site by the contractor in accordance with contract provisions.

B. All surrounding areas, where the Cement Board MD Finish System has been applied, shall be left free of debris and foreign substances resulting from the contractor's work.

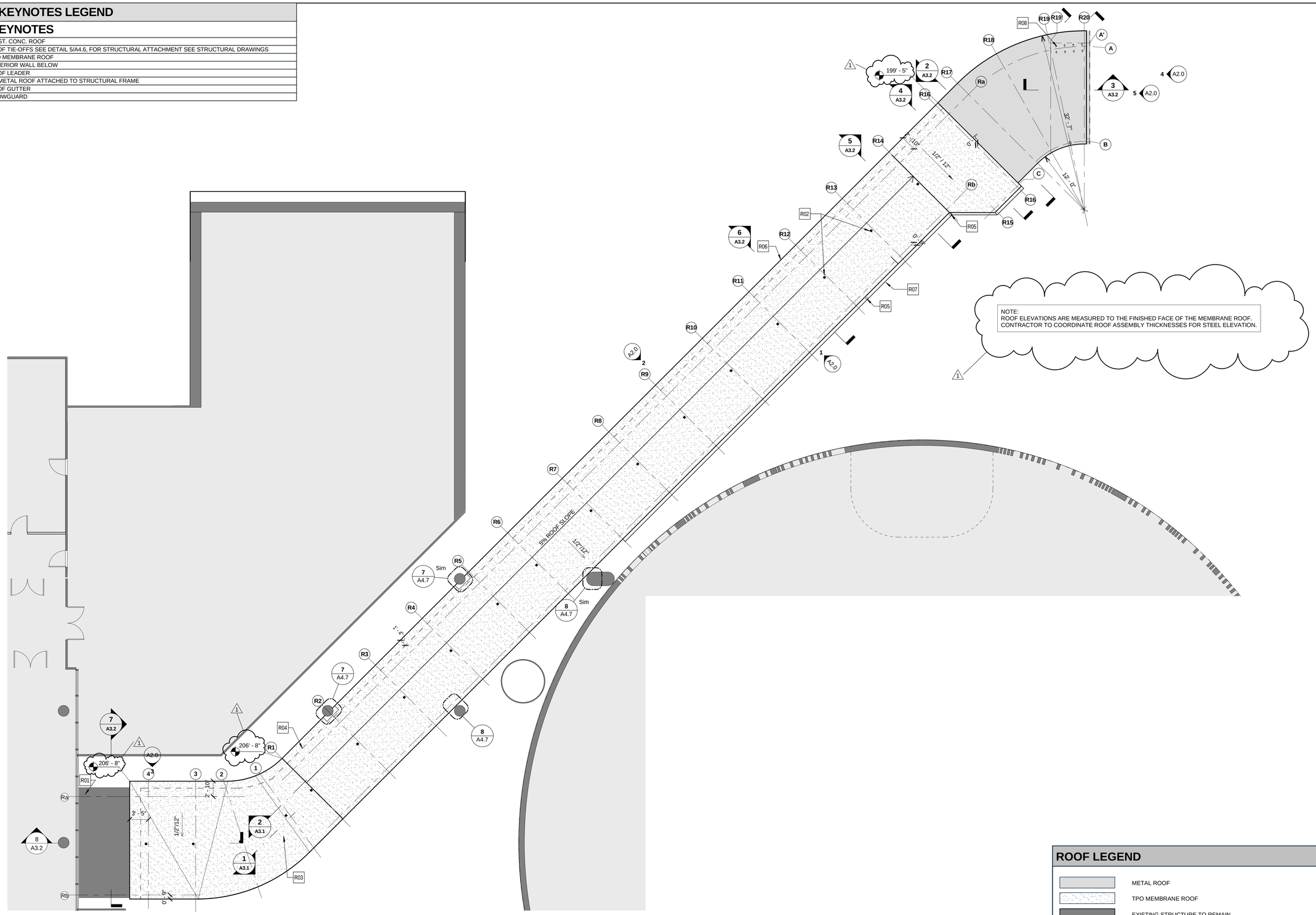
3.06 PROTECTION

A. The system shall be protected from weather and other damage until permanent protection in the form of flashings, sealants, etc. are installed.

END OF SECTION

ROOF KEYNOTES LEGEND

NO.	KEYNOTES
R01	EXIST. CONC. ROOF
R02	ROOF TIE-OFFS SEE DETAIL 5/A4.6, FOR STRUCTURAL ATTACHMENT SEE STRUCTURAL DRAWINGS
R03	TPO MEMBRANE ROOF
R04	EXTERIOR WALL BELOW
R05	ROOF LEADER
R06	SS METAL ROOF ATTACHED TO STRUCTURAL FRAME
R07	ROOF GUTTER
R08	SNOWGUARD



1 A1.2 ENTRY RAMP ROOF PLAN
Scale: 1/8" = 1'-0"

ROOF LEGEND

- METAL ROOF
- TPO MEMBRANE ROOF
- EXISTING STRUCTURE TO REMAIN
- ROOF TIE-OFF
- SNOWGUARD

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BARBARA J. THORNTON No. 1868 REGISTERED ARCHITECT

JOB NO.	DATE
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SHEET TITLE
ROOF PLAN

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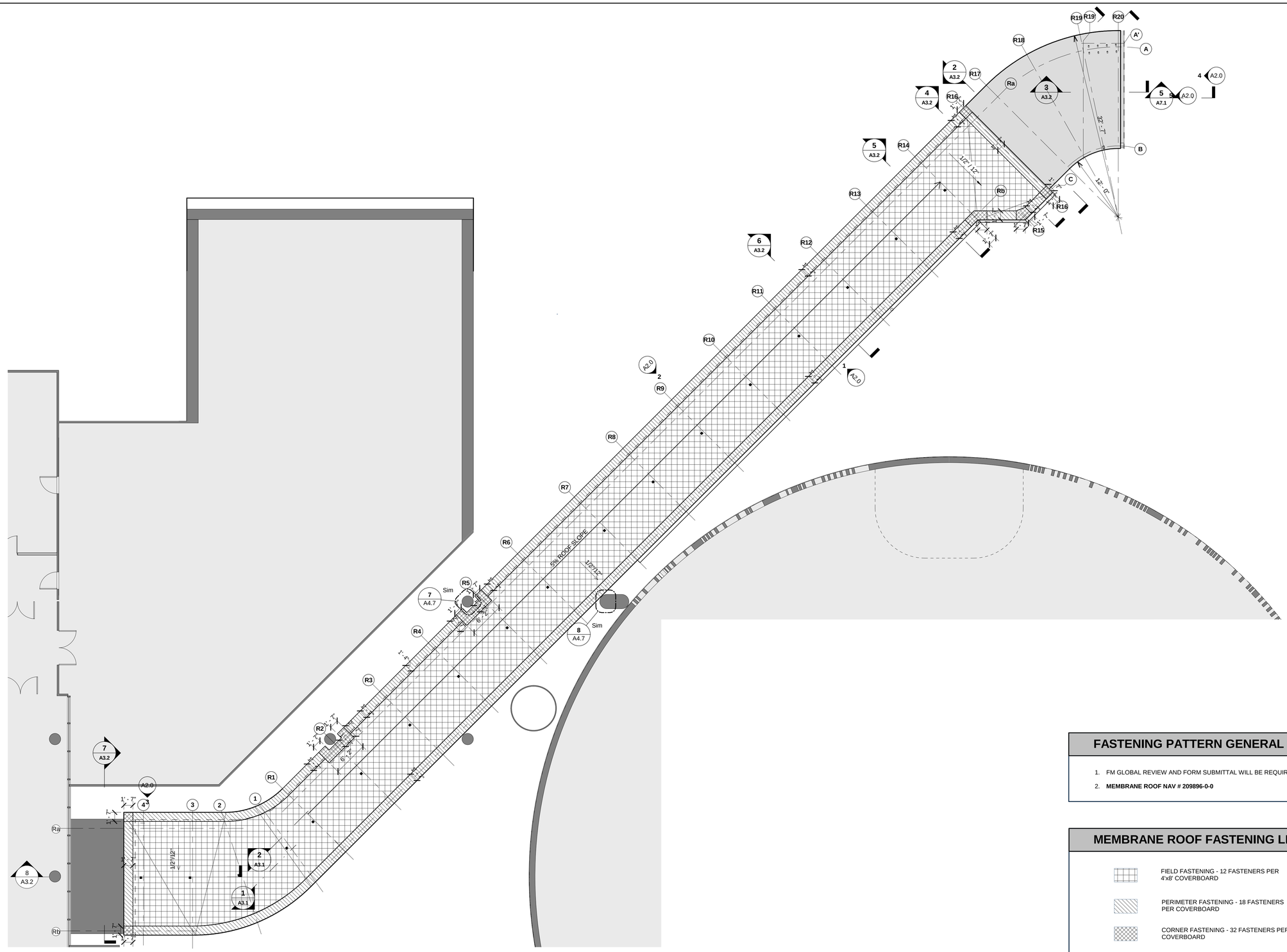

1 A1.3 ENTRY RAMP ROOF PLAN
Scale: 1/8" = 1'-0"

FASTENING PATTERN GENERAL NOTES

1. FM GLOBAL REVIEW AND FORM SUBMITTAL WILL BE REQUIRED.
2. **MEMBRANE ROOF NAV # 209896-0-0**

MEMBRANE ROOF FASTENING LEGEND

- FIELD FASTENING - 12 FASTENERS PER 4'x8' COVERBOARD
- PERIMETER FASTENING - 18 FASTENERS PER COVERBOARD
- CORNER FASTENING - 32 FASTENERS PER COVERBOARD
- METAL ROOF

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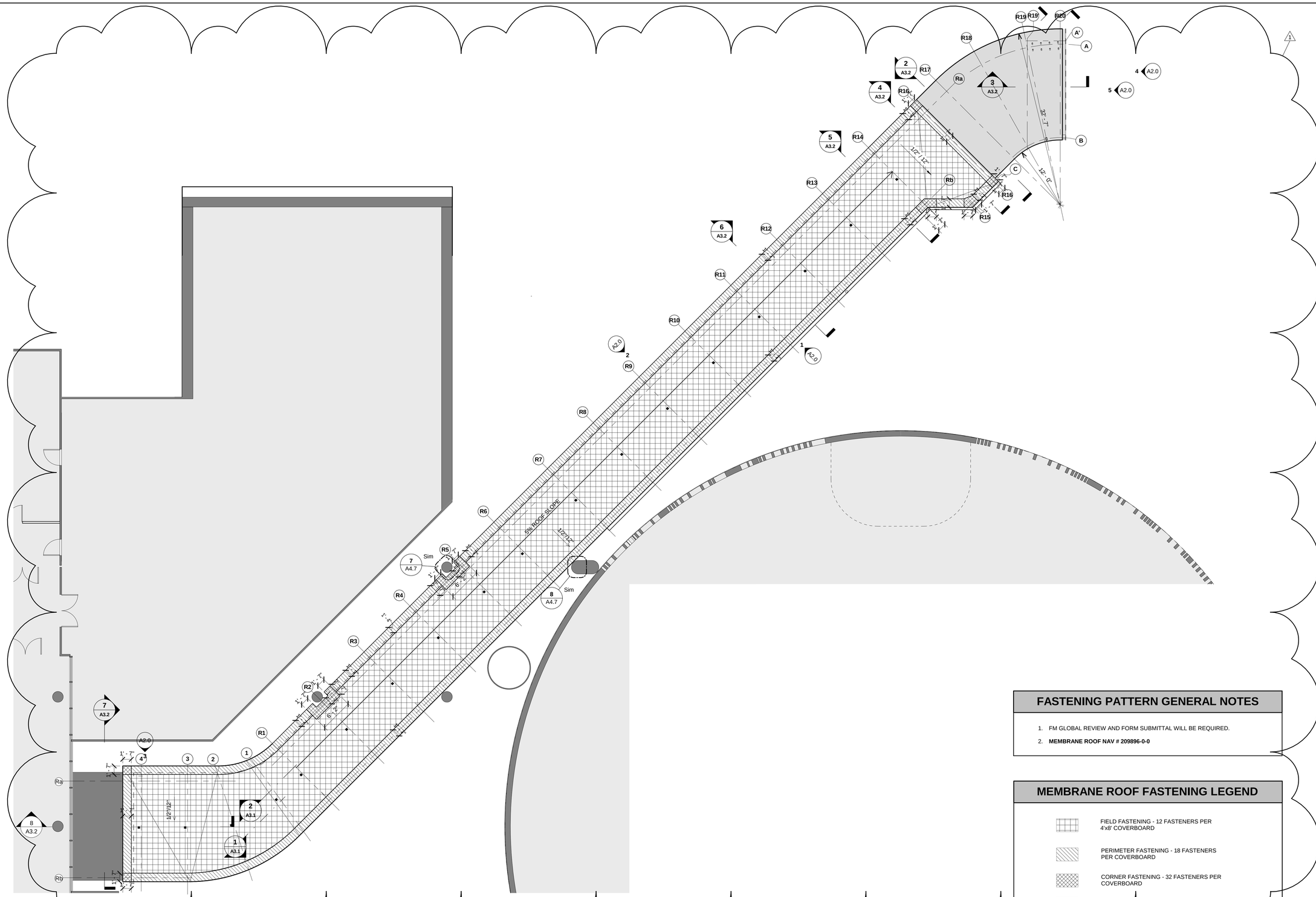

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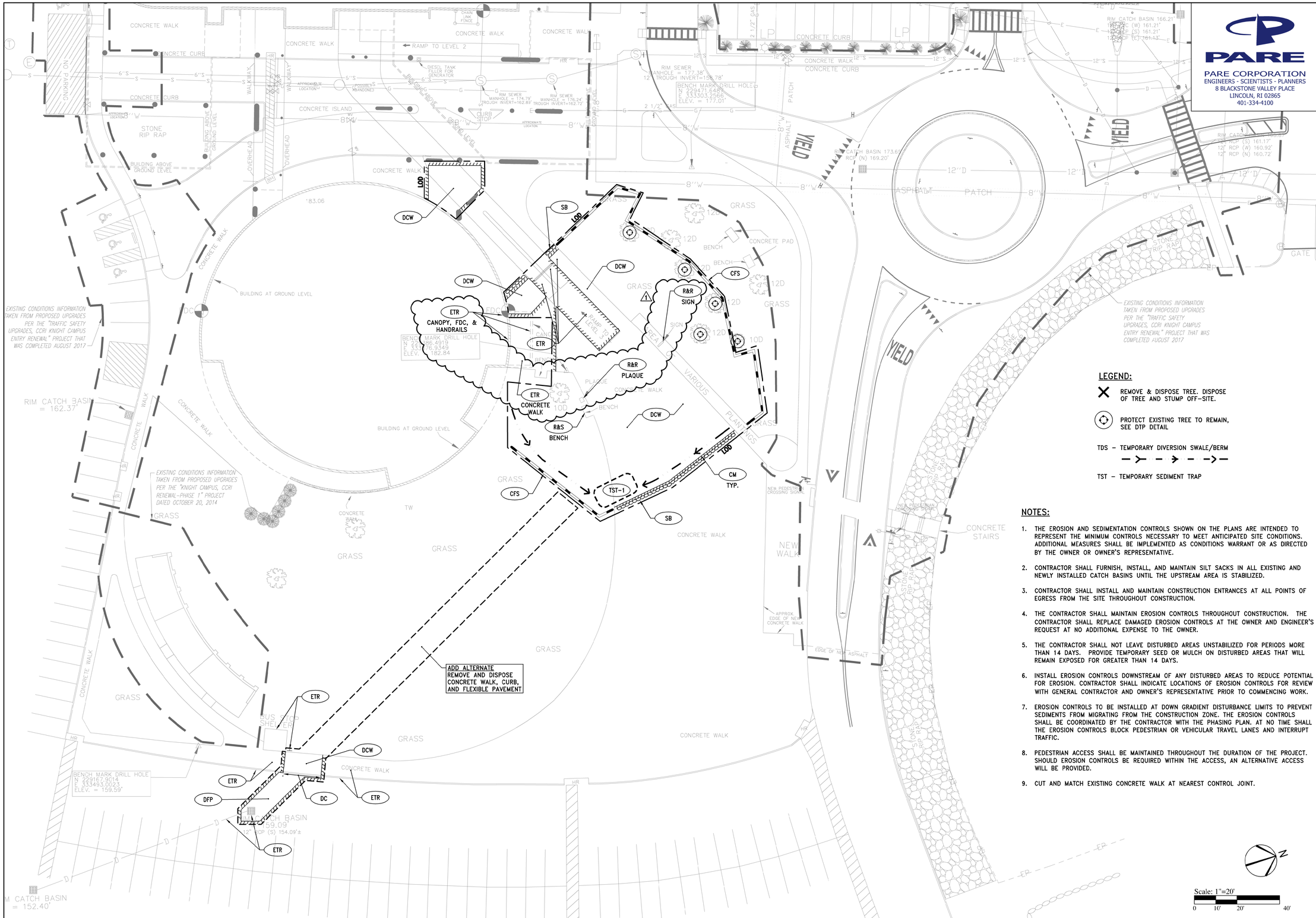

LEGEND:

- ✕ REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
- PROTECT EXISTING TREE TO REMAIN, SEE DTP DETAIL
- TDS – TEMPORARY DIVERSION SWALE/BERM
- TST – TEMPORARY SEDIMENT TRAP

NOTES:

1. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
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5. THE CONTRACTOR SHALL NOT LEAVE DISTURBED AREAS UNSTABILIZED FOR PERIODS MORE THAN 14 DAYS. PROVIDE TEMPORARY SEED OR MULCH ON DISTURBED AREAS THAT WILL REMAIN EXPOSED FOR GREATER THAN 14 DAYS.
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9. CUT AND MATCH EXISTING CONCRETE WALK AT NEAREST CONTROL JOINT.

Scale: 1"=20'

0 10' 20' 40'

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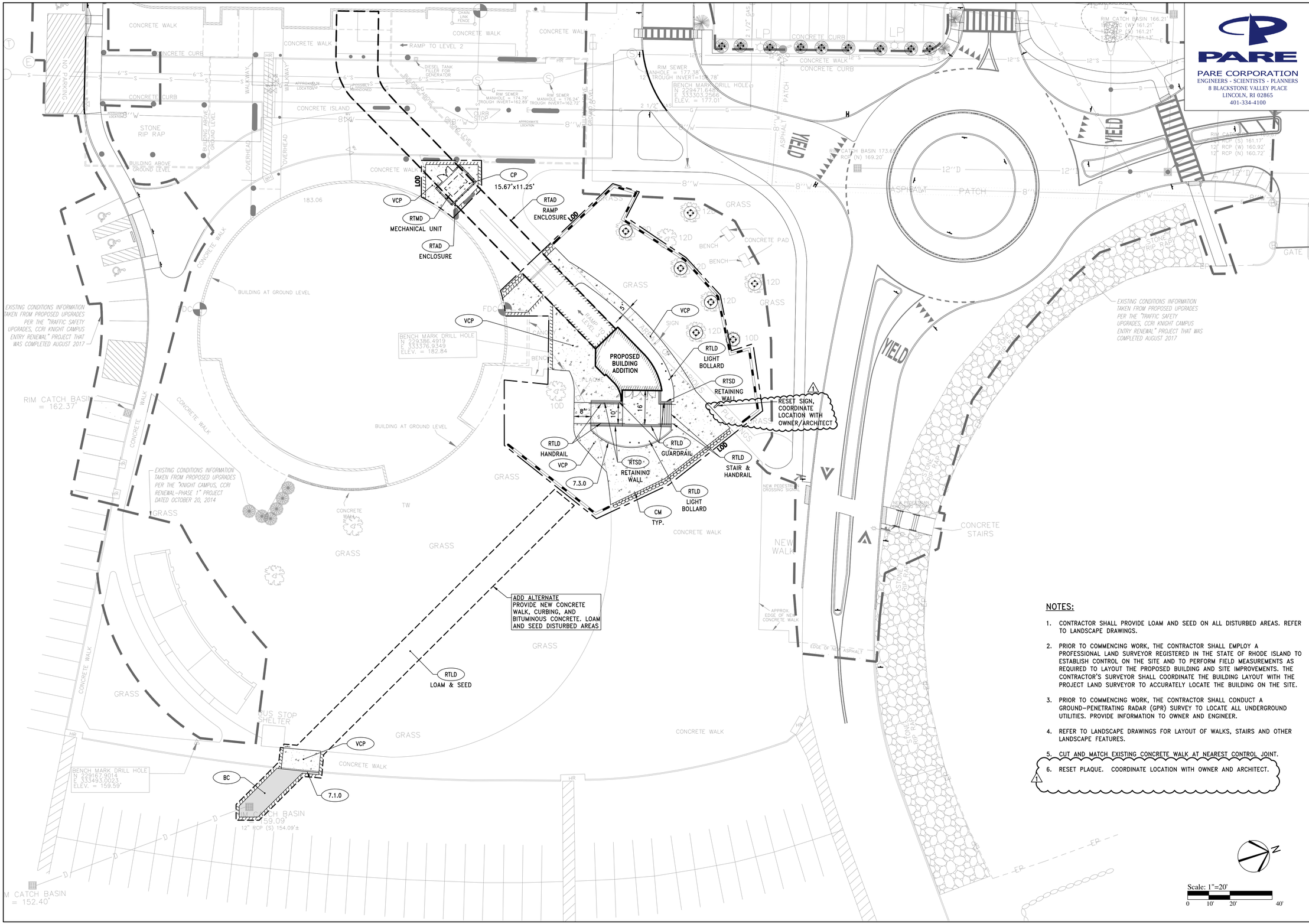
SHEET TITLE

DEMOLITION, EROSION AND SEDIMENT CONTROL PLAN

SHEET

C2.1



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SHEET TITLE
GENERAL PLAN

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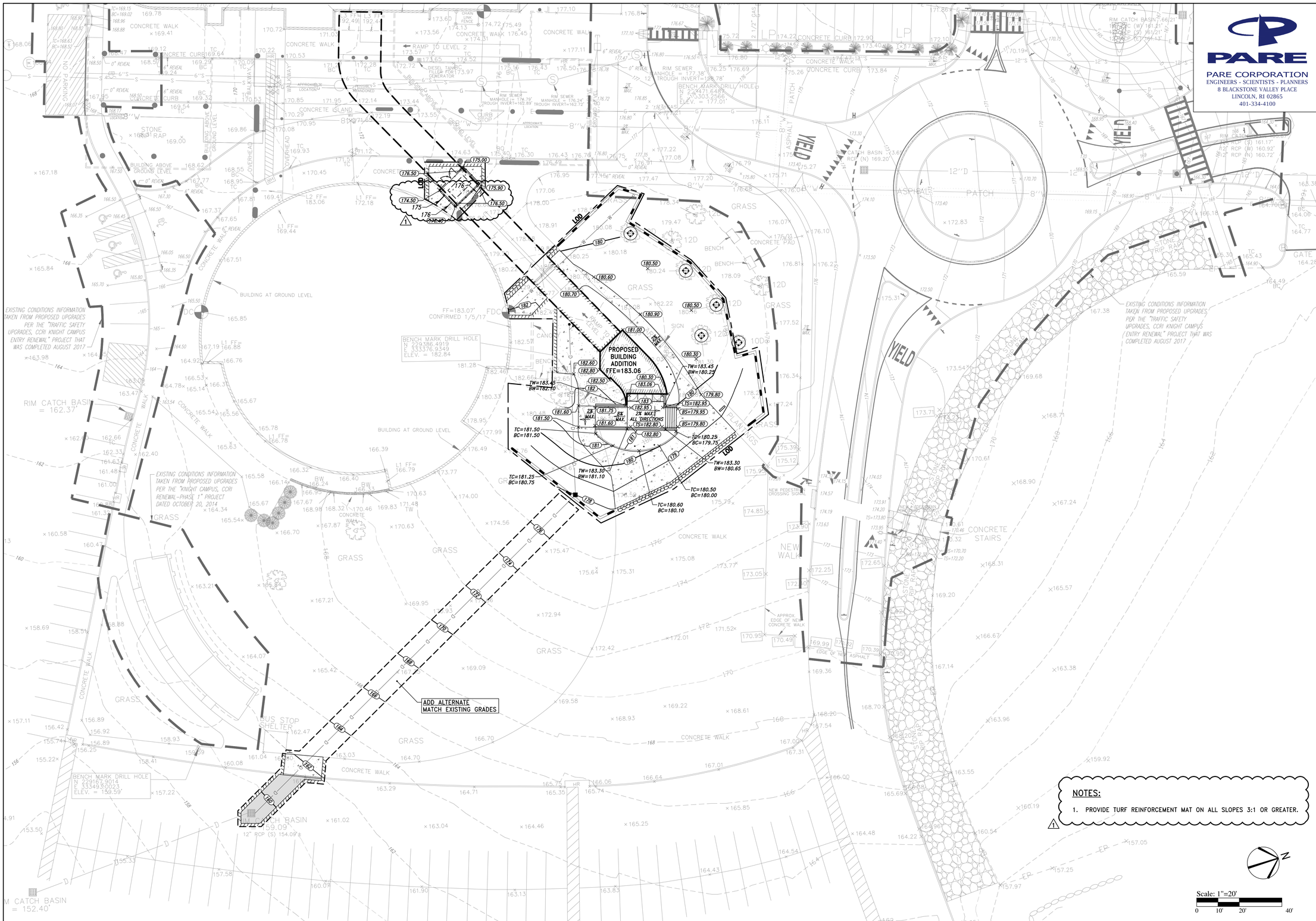

NOTES:

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SHEET TITLE

GRADING PLAN

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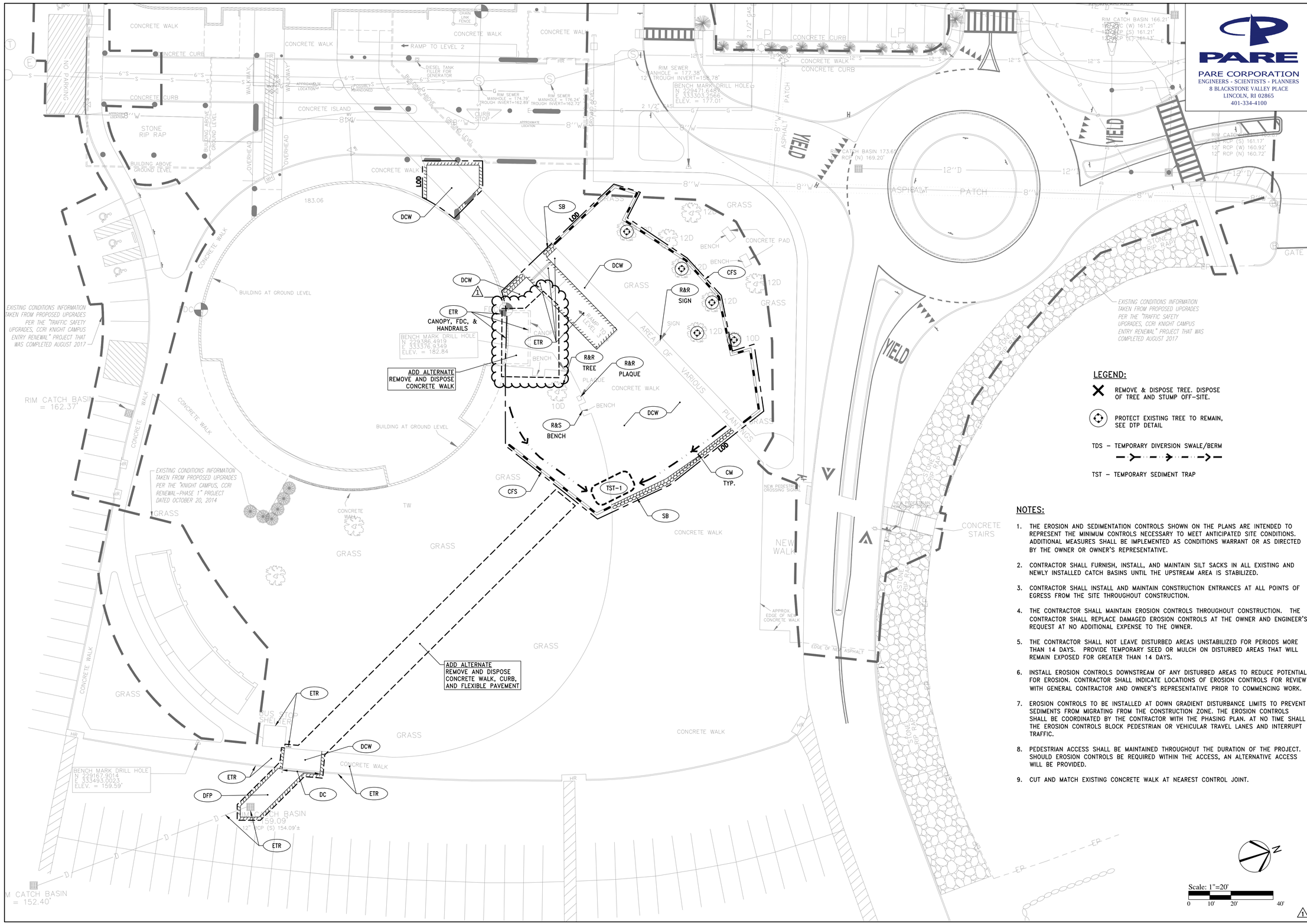

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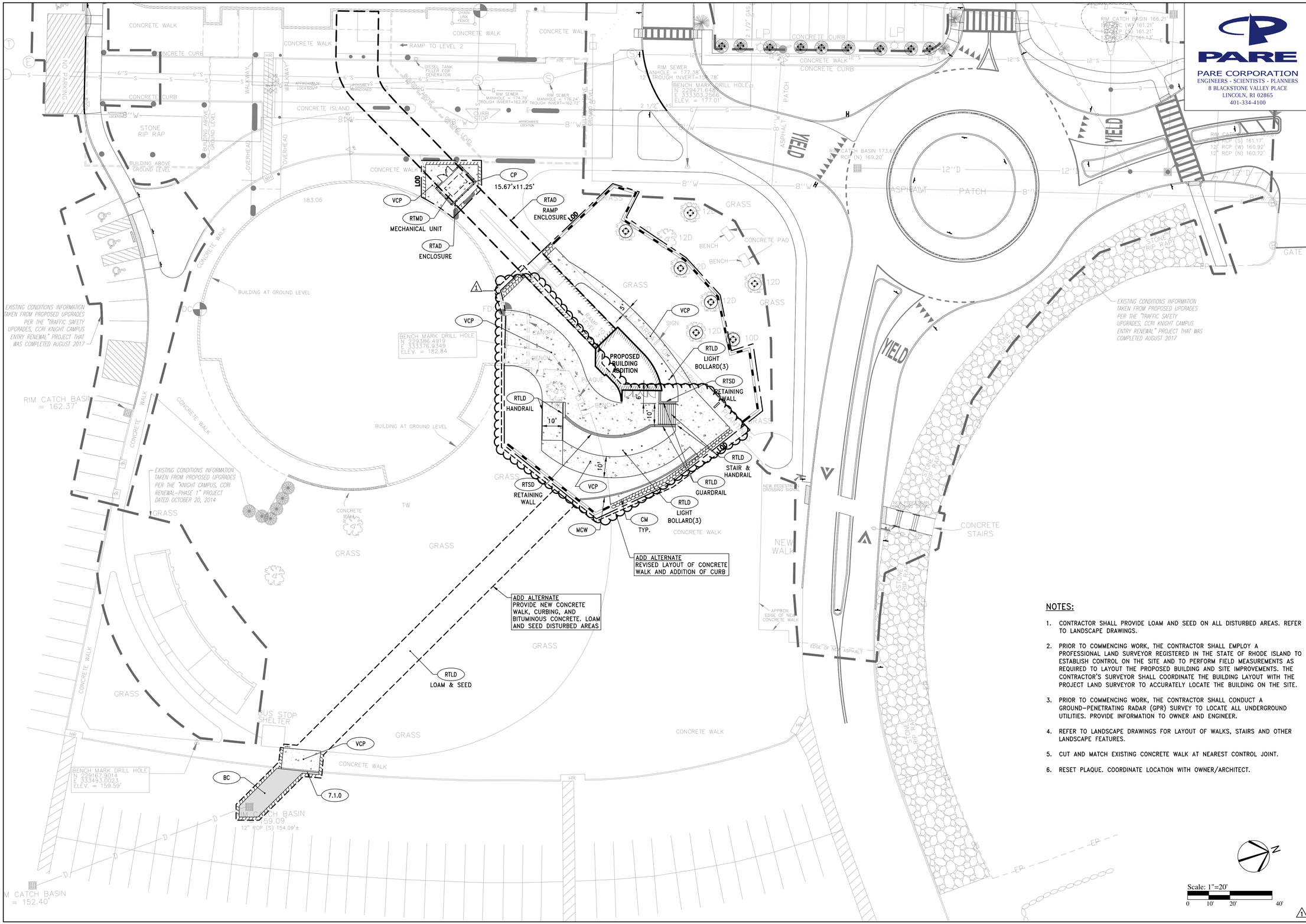

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6. RESET PLAQUE. COORDINATE LOCATION WITH OWNER/ARCHITECT.

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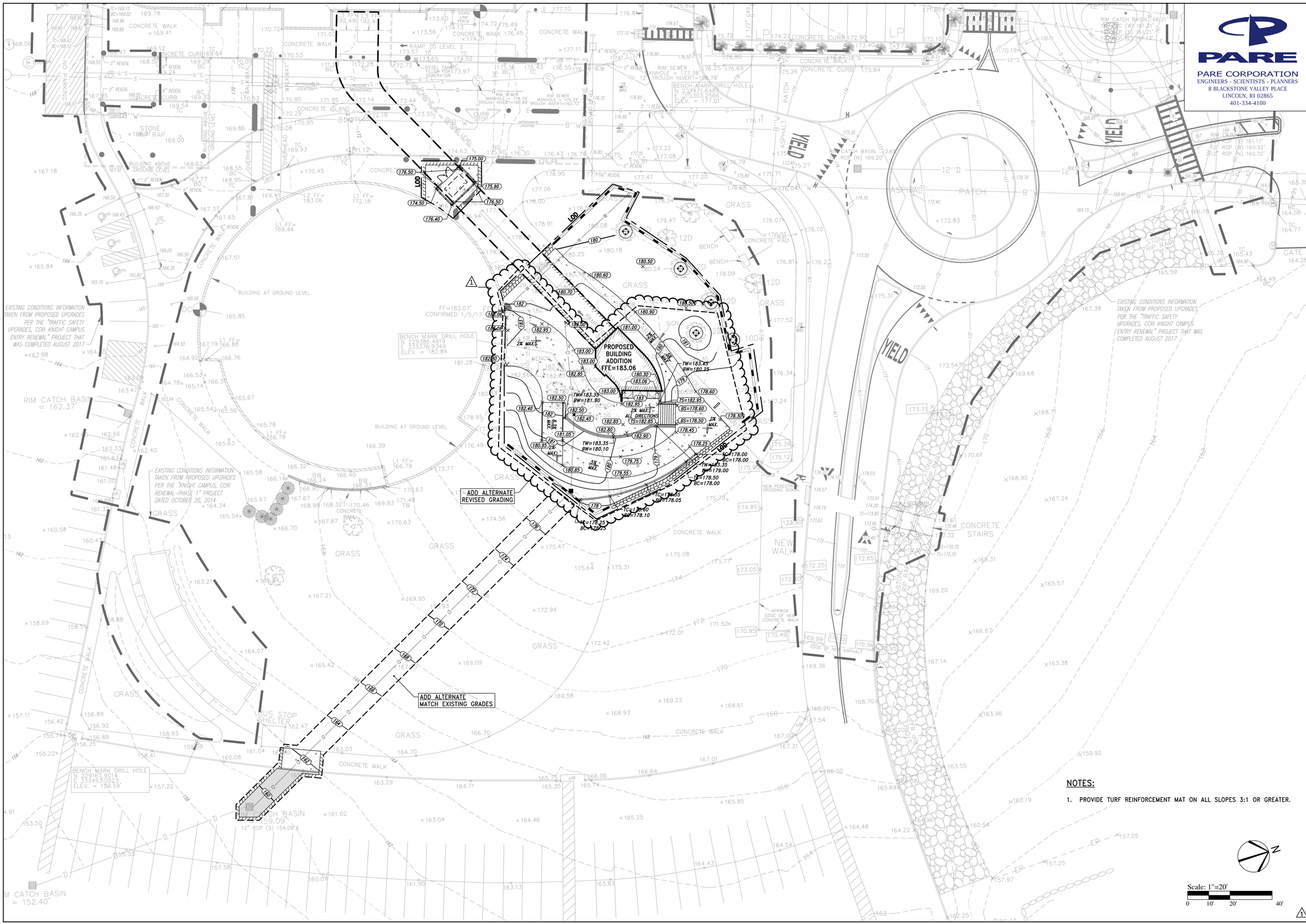

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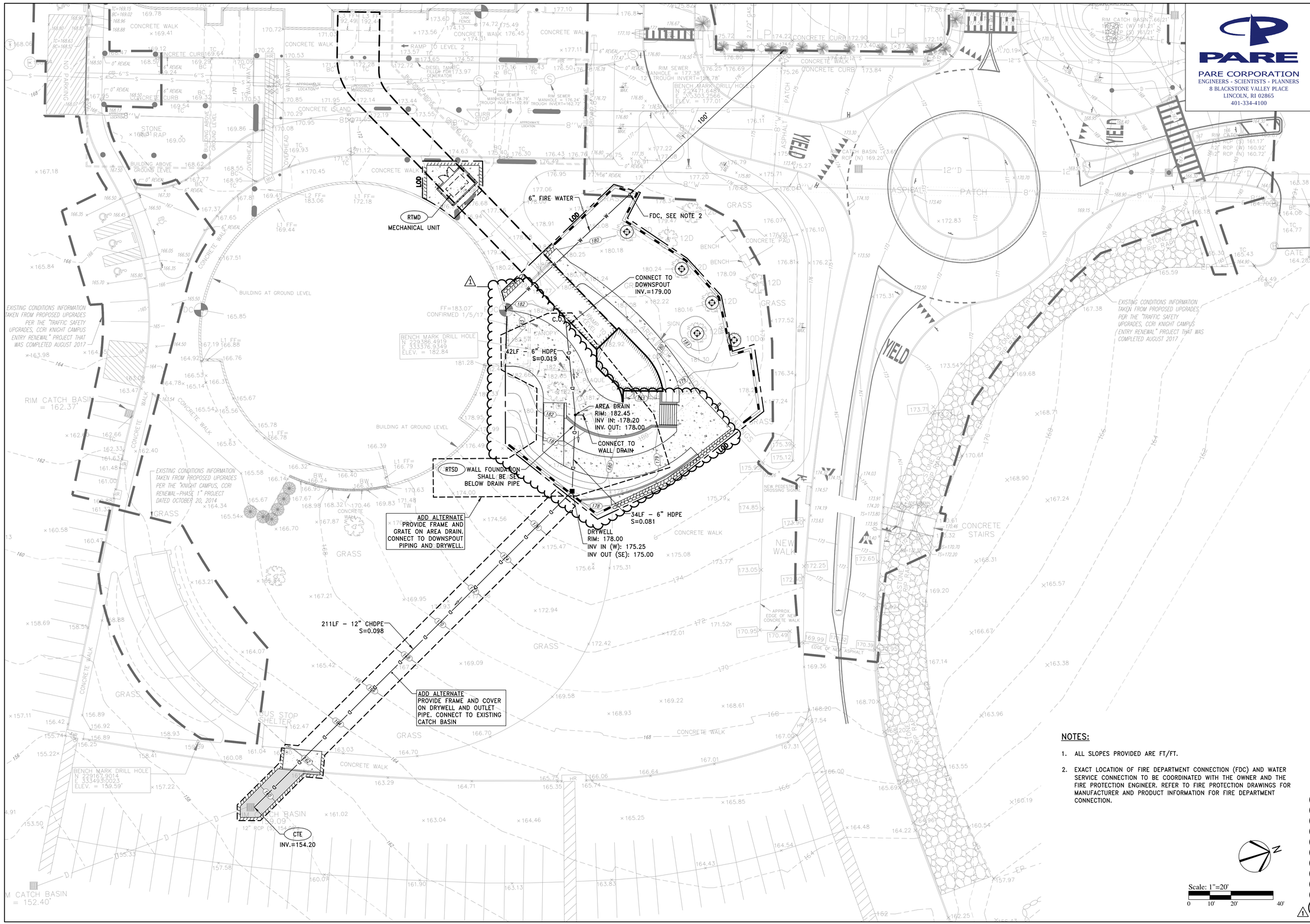
C4.2

NOTES:

1. PROVIDE TURF REINFORCEMENT MAT ON ALL SLOPES 3:1 OR GREATER.



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SHEET TITLE

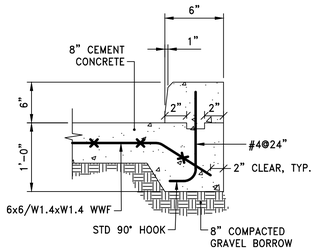
DRAINAGE & UTILITY PLAN - ALT

SHEET

C5.2

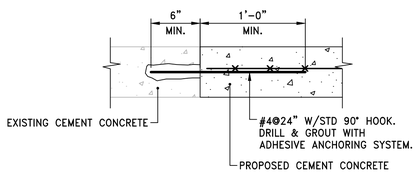
NOTES:

1. ALL SLOPES PROVIDED ARE FT/FT.
2. EXACT LOCATION OF FIRE DEPARTMENT CONNECTION (FDC) AND WATER SERVICE CONNECTION TO BE COORDINATED WITH THE OWNER AND THE FIRE PROTECTION ENGINEER. REFER TO FIRE PROTECTION DRAWINGS FOR MANUFACTURER AND PRODUCT INFORMATION FOR FIRE DEPARTMENT CONNECTION.



MCW MONOLITHIC CURB AND CEMENT CONCRETE SIDEWALK

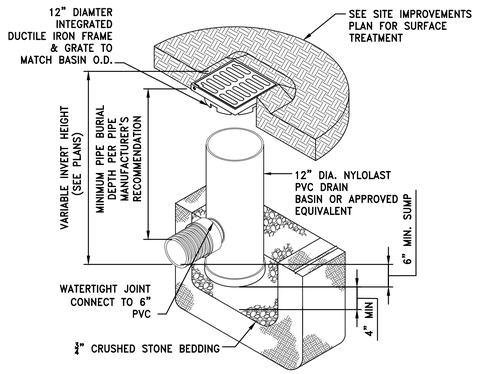
NOT TO SCALE



NOTE:
PROVIDE DOWEL INTO EXISTING SIDEWALK AT 24' O.C.

DOWEL DETAIL

NOT TO SCALE



NOTES:

1. GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05 AND ADA COMPLIANT. PROVIDE NYLOPLAST 1299CGP OR APPROVED EQUIVALENT.
2. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE.

AD AREA DRAIN DETAIL

NOT TO SCALE

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ENGINEERS - SCIENTISTS - PLANNERS
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CCRI WARWICK RENEWAL ENTRY RAMP ENCLOSURE

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DAVID L. POTTER
No. 8665
12.31.18
REGISTERED PROFESSIONAL ENGINEER
(CIVIL)

JOB NO.	DATE
1609A	November 1, 2018

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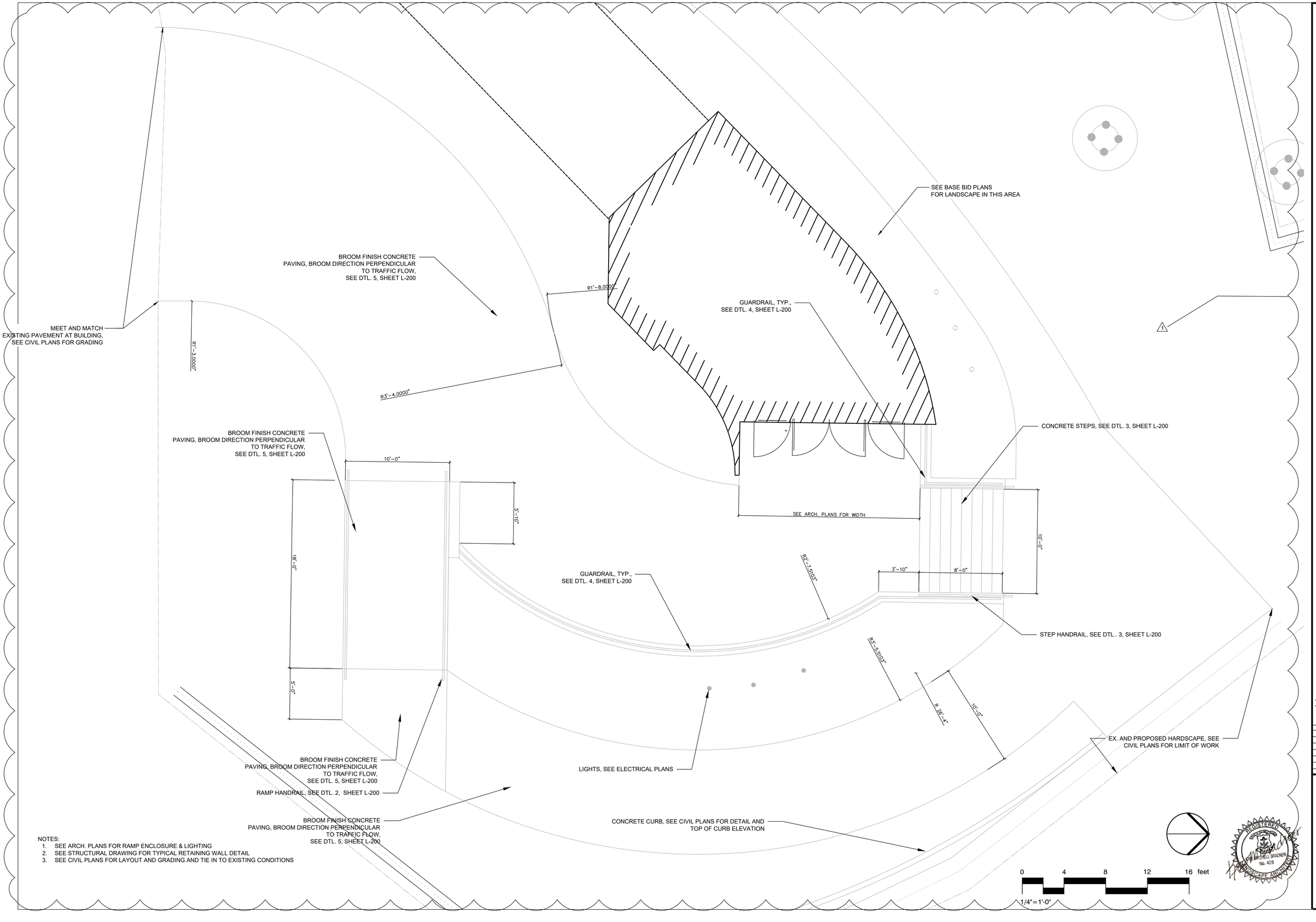
CIVIL DETAILS 3

SHEET
C6.3



NOTES:
1. SEE ARCH. PLANS FOR RAMP ENCLOSURE & LIGHTING
2. SEE STRUCTURAL DRAWING FOR TYPICAL RETAINING WALL DETAIL
3. SEE CIVIL PLANS FOR LAYOUT AND GRADING AND TIE IN TO EXISTING CONDITIONS

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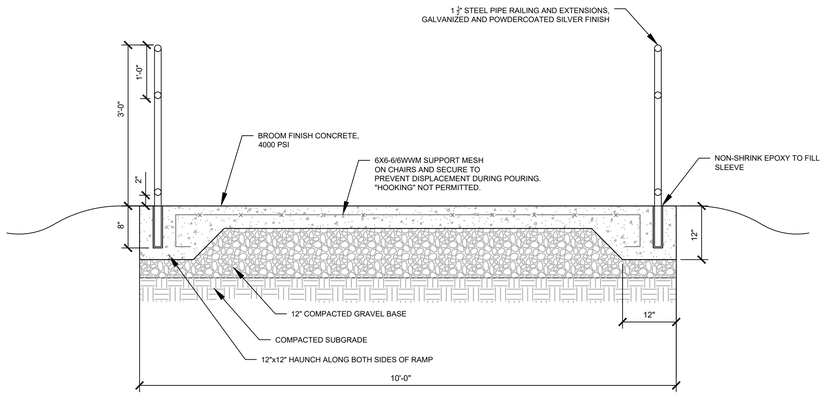
HARDSCAPE PLAN - ADD ALTERNATE

SHEET

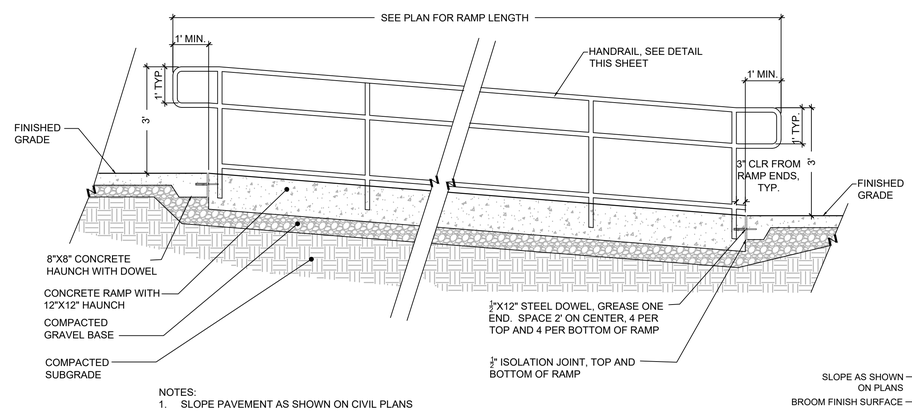
L-100A



NOTES:
1. SLOPE PAVEMENT AS SHOWN ON CIVIL PLANS

1 SECTION - RAMP AND HANDRAIL ALTERNATE

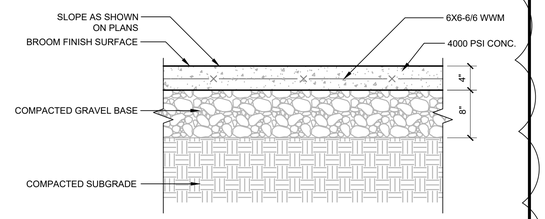
3/4" = 1'-0"



NOTES:
1. SLOPE PAVEMENT AS SHOWN ON CIVIL PLANS

2 ELEVATION - CCRI HANDRAIL AT RAMP ALTERNATE

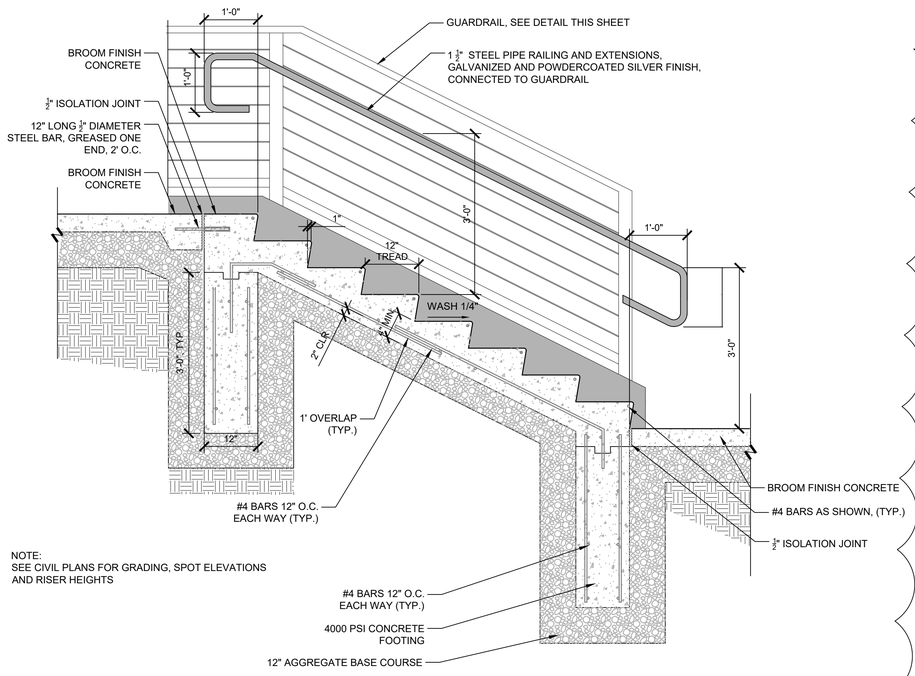
1/2" = 1'-0"



NOTES:
1. JOINTS SHALL BE TOOLED PER DETAILS AND SHALL BE PLACED AS FOLLOWS UNLESS OTHERWISE NOTED ON THE PLANS.
2. EXPANSION JOINTS SHALL BE 20' O.C. UNLESS OTHERWISE NOTED ON THE PLANS.
3. CONTROL JOINTS SHALL BE 5' O.C. UNLESS OTHERWISE NOTED ON THE PLANS.
4. BROOM FINISH SHALL BE PERPENDICULAR TO PEDESTRIAN TRAFFIC FLOW UNLESS OTHERWISE NOTED ON THE PLANS.
5. CONTROL JOINTS SHALL BE SAWCUT

5 BROOM FINISH CONCRETE PAVING

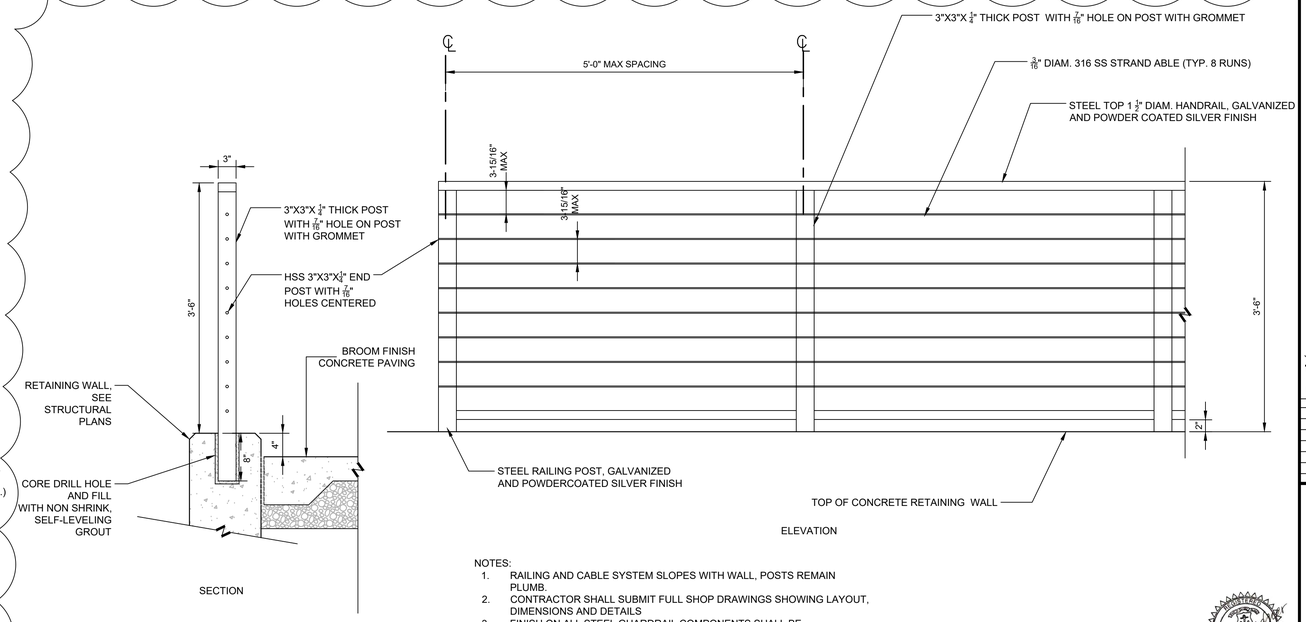
1" = 1'-0"



NOTE:
SEE CIVIL PLANS FOR GRADING, SPOT ELEVATIONS AND RISER HEIGHTS

3 SECTION - CCRI CONCRETE STEPS AND HANDRAIL ALTERNATE

3/4" = 1'-0"



NOTES:
1. RAILING AND CABLE SYSTEM SLOPES WITH WALL, POSTS REMAIN PLUMB.
2. CONTRACTOR SHALL SUBMIT FULL SHOP DRAWINGS SHOWING LAYOUT, DIMENSIONS AND DETAILS
3. FINISH ON ALL STEEL GUARDRAIL COMPONENTS SHALL BE POWERCOATED SILVER FINISH. ALL GUARDRAIL AND HANDRAIL COMPONENTS SHALL MEET CURRENT ADA REGULATIONS FOR DIMENSIONS, LAYOUT AND LOAD CAPACITIES.

4 SECTION/ELEVATION - CCRI GUARDRAIL

1" = 1'-0"

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DETAILS

SHEET

L-200A

PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT		QTY	REMARKS
JC	Juniperus virginiana `Canaertii` / Canaerti Juniper	6/7` B&B		6	
SHRUBS	**BOTANICAL NAME / COMMON NAME**	**CONT**		**QTY**	**REMARKS**
CK2	Cornus sericea `Kelseyi` / Kelseyi Dogwood	#3		60	
IG	Ilex glabra `Shamrock` / Inkberry	#3		11	
RC	Rhododendron catawbiense 'Album' / Album Catawba Rhododendron- White	24-30" B&B		12	
GRASSES	**BOTANICAL NAME / COMMON NAME**	**CONT**		**QTY**	**REMARKS**
PH	Pennisetum alopecuroides `Hameln` / Hameln Dwarf Fountain Grass	#2		104	
SHRUB AREAS	**BOTANICAL NAME / COMMON NAME**	**CONT**	**SPACING**	**QTY**	**REMARKS**
LD	Leucothoe fontanesiana / Drooping Leucothoe	#3	48" o.c.	16	
GROUND COVERS	**BOTANICAL NAME / COMMON NAME**	**CONT**	**SPACING**	**QTY**	**REMARKS**
LC	Liriope spicata / Creeping Lily Turf	#1	18" o.c.	33	

1

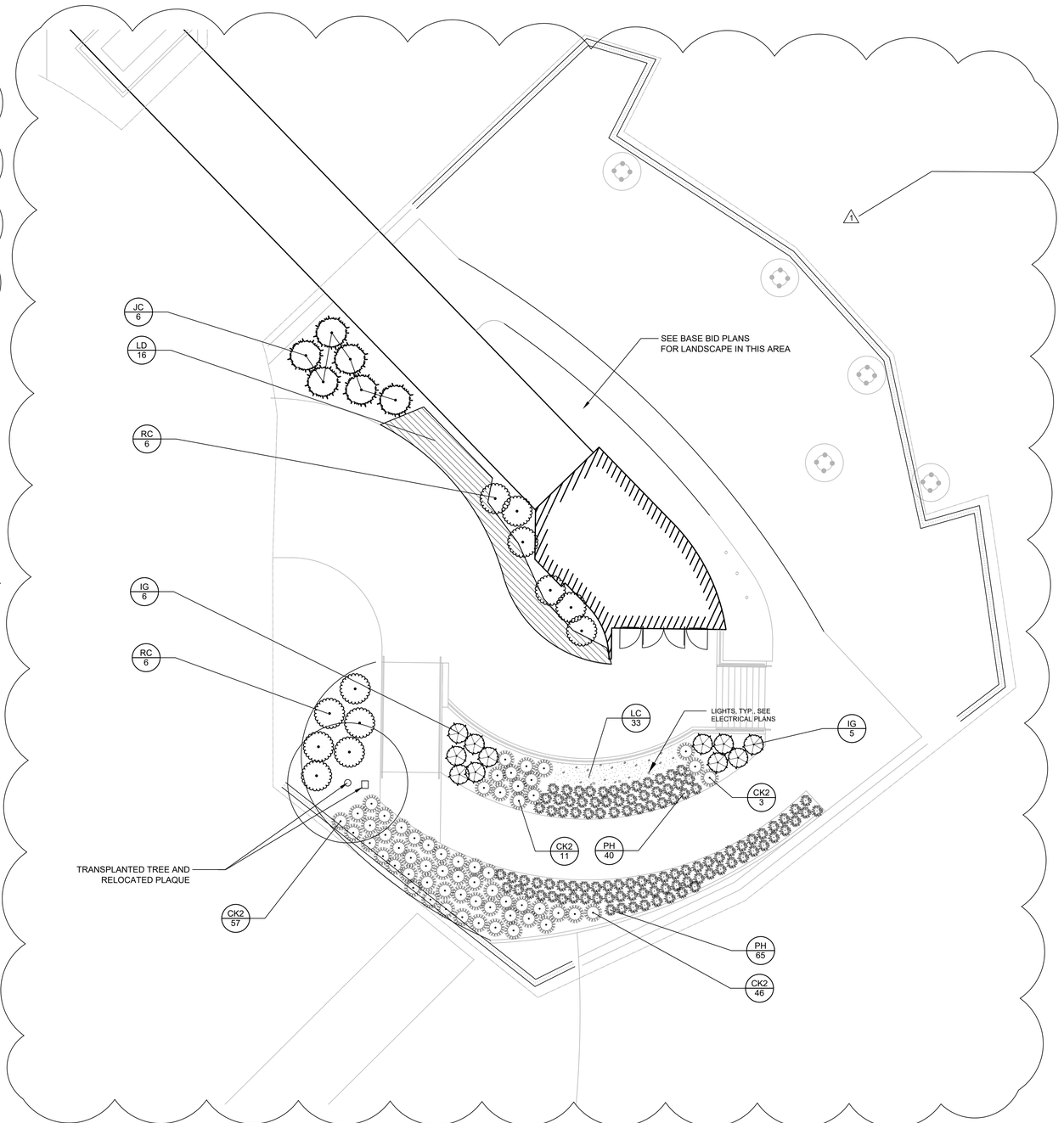
LANDSCAPE NOTES:

1. All plant material must be tagged in the ground, at the nursery by the Landscape Architect. All plant material shall be commercially obtained and shall meet the American Association of Nurseryman standards for nursery stock, latest edition, and its amendments. Plant only during season normal to the particular variety. All plant inspections will be at the expense of the contractor. Permanent seals will be required.
2. Planting beds shall be excavated to a minimum depth of 12" and new laom and compost (50/50 mix) shall be incorporated into the planting bed to meet surrounding grades unless otherwise noted or detailed. Cover all planting beds with 3" shredded hardwood bark mulch within a seventy-two hour period after planting. See plan for bed layout.
3. All plant materials furnished by the contractor shall be guaranteed for a period of one year from final acceptance of landscape work.
4. The contractor is responsible for keeping the site clean of miscellaneous debris throughout the construction period. All waste material is to be disposed of immediately to an off-site location, unless otherwise indicated on the plans.
5. The contractor shall perform all work in accordance with all local, state, and federal regulations, and shall obtain all necessary permits for this project.
6. Loam: Loam moved during the course of construction shall be retained and distributed within the site in accordance with the landscape plan. Stockpiled loam shall not be mixed with any subsoil, noxious weeds or unsuitable materials. All excess loam shall remain on the property of the owner. New loam if required to provide the specified depth, shall be a fertile, friable medium textured sandy loam free of material toxic to healthy plant growth. Loam shall also be free of all stumps, roots, stones and other extraneous matter an inch (1") or greater in diameter. The pH shall be between 6.5 and 7.5. Organic content shall be a minimum of 5%.
7. Lawn Preparation: Remove all debris and other inorganic materials on the prepared subgrade, reshape and dress any damaged or eroded area prior to spreading the loam. Scarify and loosen subgrade in any areas where compaction may have occurred. Spread stockpiled and off-site loam on all disturbed areas to produce a depth of 4" unless otherwise noted on the plans. Fine grade loamed areas to produce a smooth and unbroken finish grade to the required depth. Apply a starter fertilizer (10-20-10) at a rate of 20 lbs. per 1000 square feet and lime at a rate of 40 lbs. per 1000 square feet unless otherwise noted on the plans or in the specifications. Once spread, the fertilizer and lime shall be thoroughly incorporated into the loam. The loam shall be rolled, and depression shall be top dressed and raked to create a smooth surface.
8. Seeding: Seeding shall take place between March 15 and May 31 or August 15 and October 15 only. Seed shall be pure, live, fresh seed from commercial sources meeting and labeled in accordance with State and Federal rules and regulations. The seed mixture shall be as noted on this sheet.

   Seeded areas shall, at a minimum, include all areas of the site that have been disturbed or are barren unless otherwise noted on the plans. Seed shall be applied at the rates indicated per seed mix.
9. Protection of Existing Plantings: Maximum effort should be made to save tree or other plant specimens which are large for their species, rare to the area, or of special horticultural or landscape value. Contact owner/landscape architect before removing any specimen of this type unless otherwise noted on the plans. No material or temporary soil deposits shall be placed within the drip line of shrubs or trees designated on the landscape plan to be retained. Protective barriers are to be installed around each plant and/or group of plants that are to remain on the site. Barriers shall not be supported by the plants they are protecting, but shall be self supporting. They shall be of minimum of four feet (4') high and constructed of a durable material, such as snow or silt fence, that will last until construction is completed.
10. Pruning: The contractor shall employ a certified arborist to prune any existing roots or branches carefully prune branches in the way of construction by using only approved methods and tools. The use of axes for trimming or spurs for climbing will not be permitted.
11. Disturbed Areas: Any areas disturbed during the course of construction are to be restored to original (or better) condition by contractor before completion of the project, and are subject to approval by landscape architect and owner. All grass areas disturbed during construction shall be york raked to remove stones and loamed and seeded as per specifications.
12. Layout: All notes and dimensions are typical unless otherwise noted. All dimensions are square (parallel or perpendicular) unless otherwise noted. The contractor shall notify the owner/owner's representative immediately in the event of any discrepancies found in the contract documents and/or in the field, or of conditions uncovered in the work which are not reflected in the plans.
13. Cleaning: Contractor is responsible for keeping site clean of miscellaneous debris throughout the construction period. All waste material is to be disposed of immediately to an off-site location, unless otherwise indicated on the plan.

IRRIGATION NOTES:

1. Exiting irrigation controller located on wall near underpass.
2. Existing water supply is 2-inch domestic service from within building.
3. Use existing spare wire from existing irrgiation controller for CCRI knight campus. Make all wire splices using dby-6 waterproof splice kits in valve boxes (2 new zones required, minimum).
4. Use existing sleeves under driveway for irrigation pipe and/or valve wire. For new hardscapes, coordinate with site contractor to provide two (2) sch 40 pvc 6-inch sleeves extending 18 inches into landscape.
5. Sprinkler zones shall use 12-inch pop-up spray bodies with head-to-head coverage for shrub and groundcover planting beds. Connect heads to lateral with clamped swing pipe to npt x barbed fitting. Sprinkler bodies shall have pressure regulation to 30 psi and drain check valves. Set heads flush with grade.
6. Drip zones shall come with filter and pressure regulation as part of a complete kit. Use integral check valve drip tubing spaced as required for complete planter bed coverage. Provide automatic flush valves at ends of drip zones in 6-inch round valve boxes. Provide check valves on supply headers with slopes greater than 4 feet. Install drip tubing perpendicular to slope (along lines of same elevation).
7. Program new zones so as to not conflict with existing programs. Schedule irrigation based on site conditions (sun/shade, soil, and plant type). Where possible, use cycle-soak feature to prevent runoff.
8. Submit all catalog cuts and specifications sheets of product to be installed for review by owner's representative. Provide shop drawing of irrigation layout for expanded system for review by owner's representative.
9. Provide as-built red-line sketch plan of expanded irrigation system to owner and owner's representative.
10. Guarantee expanded irrigation system for one (1) year after owner signoff.



0 10 20 30 40 feet

1" = 10'

REGISTERED LANDSCAPE ARCHITECT
KIM MITCHELL BRADNER
No. 426

CCRI WARWICK RENEWAL ENTRY RAMP ENCLOSURE

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LANDSCAPE PLAN - ADD ALTERNATE

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