ROCKFORD BOARD OF EDUCATION
INVITATION FOR BID ON SUPPLIES, MATERIALS, EQUIPMENT OR SERVICES FOR SCHOOL DISTRICT NO. 205 ROCKFORD, ILLINOIS

IFB No. **17-63 Carlson Elementary School Gym Addition & Renovation**

DATE: **July 12, 2017**

RE: **ADDENDUM NO. 1**

To All Bidders:

Attached are modifications, clarifications and/or corrections for the Project Manual and are hereby made a part of the contract documents. Please attach this addendum to the Project Manual(s) in your possession. Please note the receipt of this addendum on the bid form. Bidders shall review changes to all portions of this work as changes to one portion may affect the work of another.

If you plan to hand deliver your IFB submission on the due date, please note you must check in on the 2nd floor prior to coming to the bid opening. Please allow time for this as late submission will not be accepted.

Refer all questions relative to the business aspect, Instructions to Bidders, Special Conditions, and questions concerning the technical aspect of the documents to the Purchasing Department by email to Rickey Sparks at rickey.sparks@rps205.com

4615 E. State Street Suite 206 Rockford Illinois 61108
815 / 397-3330

ADDENDUM NO. 1

Date: July 12th 2017

Project: **17-63 Carlson Elementary School Gymnasium Addition & Renovations**
Project Number: IFB No. 17-63

To: All Bidders

This addendum is issued to modify, clarify, or correct the original Project Manual and/or Drawings for Carlson Elementary School Gymnasium Addition & Renovation and is hereby made a part of the contract documents. Please attach this addendum to the Project Manual(s) in your possession. Please note the receipt of this addendum on the bid form. Bidders shall review changes to all portions of this work as changes to one portion may affect the work of another.

Changes to the Project Manual for Carlson Elementary School Gymnasium Addition & Renovation.

Section 004115 – References. Refer to attached Specification Section from RPS

Section 015000 –Temp Facilities & Controls, 3.4 Security & Protection Facilities Installation. Item J Add line 2 To read as follows.

2. F**or** temporary enclosures provide a min. insulation requirement of 12 Mil Thick Polyethylene insulated tarp with a min 1/2" thick foam closed cell. Web site www.tarpsupply.com or equal meeting these requirements

Section 42000 – Unit Masonry, 2.4 Brick Item B Revised as follows

B. Face Brick: Facing brick complying with ASTM C 216.

i. Products: Subject to compliance with requirements, provide brick to match existing. The following bricks have been determined by the Architect to match existing. Provide the following brick veneer blend at 70%, 20% & 10% of the following:

1. Sioux City Brick ”Badlands Velour” 70%
2. Sioux City Brick ”Doeskin Velour” 20%
2. Sioux City Brick ”Black Hills Velour” 10%.

Section 87100 – Finish Hardware, 3.8 Hardware Schedule Revised as follows

HARDWARE GROUP NO. 08 Add Door 108A to this schedule Include 1 set Door Seal DP591D by REE & 1 set Door Seal 807D by REE

Add HARDWARE GROUP NO 08A for Pair of Door 103
Each to Have

2 pr.	Cont. hinge	224HD	Ives
2	Overhead Stops	690	Sar
1	Storage Room	28-10G26LL	Sar
2	Surface Closer	PR7500	NOR
2	Kickplate – 8400 10” x 2" LDW"		Ives
1	Silencer - Rubber GJG4		Glynn Johnson
1	Overlapping Astragals		Ives
1 set	Top & Bottom Manual Flush Bolts		Ives
1 set	Door Seal 797B		Ree
1 set	Door Seal DP591D		Ree
1 set	Door Seal 807D		Ree
2	Wall Stops	WS406CCV	Ives
1 ea	Threshold 8133, 8145, (2) BAR 1, 8150, 8168N, 8139		
Provide REC'S Returned Closed Ends (Gym Side) AL			NGP

Section 098433 – Sound Absorbing Wall Units, 2.3 sound Absorbing Wall Units; Item D line items 1 Revised as follows:

Sound-Absorbing Wall Panel – WP-2 (Gymnasium):

1. Basis-of-Design Product: Conweb Designcape, The fabric is by Designtex, Style to be Gamut, Color as selected from full range of manufacturer of architectural colors.

Changes to the Project Construction Documents for Carlson Elementary School Gymnasium Addition & Renovation.

Sheet G1.01 Drawing Index
Civil Drawings See the Revised list of Civil Drawings
C01 General Notes
C02 General Notes
C03 NE Removal Plan
C04 SE Removal Plan
C05 SW Removal Plan
C06 NW Removal Plan
C07 NE Layout/Utility Plan
C08 SE Layout/Utility Plan
C09 SW Layout/Utility Plan
C10 NW Layout/Utility Plan
C11 NE Grading/Erosion Control Plan
C12 SE Grading/Erosion Control Plan
C13 SW Grading/Erosion Control Plan
C14 NW Grading/Erosion Control Plan
C15 Details
C16 Details
C17 Details
C18 Details

Sheet A1.12 First Floor Nomenclature Plan
Gymnasium 100, Add the following General Note and Adjust Key Note 3.

1.
    a) Wood Flooring installation requirements as per the flooring manufacturer requirements as noted below.
    b) If heating and or air conditioning is in operating condition. The present building system need to be operating.
    c) If the construction schedule does not allow for new building system control system to be in use during installation. Provide temporary heating and/or air conditioning system to be operating before, during and after installation.
    d) The General contractor will be responsible for providing temporary heating, and/or dehumidification system that mimics normal temperature and humidity conditions, which can enable the installation to proceed until the permanent heating and/ or air conditioning system is operating.
    e) Coordinate with wood flooring sub-contractor.

2. Key Note 3; Adjust as follows omit reference to "Tectum C-40" Note to be replaced with WP-2 (Refer to Addendum #1 addressing this specification item)

Sheet A4.00 Toilet Accessory Schedule
Add the following toilet Accessory schedule as indicated by SU-1 Dated 07-07-2017

Sheet A6.00 First Floor Reflective Ceiling plan.
P.E. Storage Room 103 Add the following:
Note the following:

a) Existing ceiling ELEV is at +16'-0"+/- AFF.
b) Existing acoustical ceiling tile is glued to the underside of suspended GWB ceiling material.
c) We will add a (1) Rated suspended ceiling assembly to the underside of this existing system
d) Refer to existing Carlson School Drawings sheet 12/27 & 15/27 for reference
e) Provide 6 " I- Stud @ 24" O.C., 1" Fire-Shield Shaft Liner, J Track, 5/8" Fire Shield GWB Assembly (Refer to SU-1 Dated 07-07-2017

BN-RFI: 01 - Specification & Construction Drawing:
REQUEST:

1. Foyer #101 East Elevation; Do we need to install insulation in the Brick / Block wall cavity below the roof line?
2. Sheet 2/A3.00 Elevation Key Note #4/ Looks as if it pointing at the window sill, do we have to scored CMU on this side?
3. Sheet 2/A3.34 Are we calling for through wall flashing at this wall? If we are could I have a detail how you want this done.
4. North Elevation Foyer # 101 Detail 1-3 A3.36 Shows block (Should block go to deck?) Detail 14/S4.1 shows steel studs.

RESPONSE:

1. **Yes, carry cavity insulation down to foundation wall line.**
2. **Key Note 4 pointing to Limestone window sill. Score inside CMU sill (Refer to wall section 4/A3.32**
3. **Clarification, this is the only common wall line that will run above the existing roof line, CMU wall is covered with 5/8 Dense deck prime with TPO roofing applied over this vertical wall section. So no through wall flashing along this existing roof line to new CMU wall line.**
4. **Yes, carry brick and CMU wall to the underside of roof decking, Omit reference to steel studs as indicate on sheet S4.1 detail 14/S4.1**

BN-RFI: 02 – Kitchen Equipment Plans & Specification:
REQUEST:

If you have a moment I would like to take a moment and ask you a few questions regarding the 11400 section of the Carlson Elementary School in Rockford IL. I will be referencing plan FS101 and the 11400 specifications.

1. Item 7 on the schedule it shows that 1 is existing and 1 is by owner, in the specifications the only thing it mentions is that the owner will be providing the soap and paper towel dispensers. Can you please clarify who is to be proving these items?
2. Item 11 on the schedule and the specifications say that this item is a spare number, however there is 1 on the plan between 9 and 13 and above 12. Can you please clarify what this item is and who is to provide it?
3. The condensing units for the freezer and cooler say on the roof, looking at the plans it looks like it is on the third story can you verify the location and number of storys?

RESPONSE:
Refer to S20 Letter dated 07-07-17 addressing these items. Clarification for question #3 refer to sheet M2.10. These condensing units are on the roof plan of first floor 4/12 pitched roof line above.

BN-RFI: 03 –Gymnasium Plans & Specification:
REQUEST

Additional clarifications are needed for the project.

The specifications for the athletic equipment have reference to a divider curtain and a batting cage, however the drawings (architectural, electrical) do not show them.

Please clarify if these items are included or are not included for this gym.

The drawing E2.10 shows electrical pigtails (ref # 33, 35) at 6 locations, which I'm assuming (ref #'s 33 and 35 are not listed on the drawing as to what they are for, just shows they come from the same wall 6 gang switches) are for the basketball backstops, however all other drawings only show 4 backstops (2 main court and two side court backstops on the North side wall.)

Are there to be 4 or 6 backstops?

The specifications indicate a touch panel control will be used, but the drawings only show the key switches.

RESPONSE:

1. **Omit reference to both divider curtain and batting cages as called for in specification section 116623 Item 2.10 and 2.11**
2. **Refer OAS Lettered dated 07-07-2017 along with revised sheet E2.10. We only have 4 backstops for this project.**
3. **Omit specification section 116623 item 2.7 reference to touch panel control. As per plans we are providing key switches as indicated on E2.10 dwg.**

BN-RFI: 04 –Electrical plan clarification:
REQUEST

My company does Security integrations and I see we missed the mandatory walk through. Would we be able to bid or partner with someone for the access control piece?

I also have two questions regarding the prints

On the prints there are 3 doors that are going to have access control on them. They all are double doors on the print. On the diagrams page there is a double door diagram and a single door diagram. However I don't see a single door diagram listed. Is there another electrical print that has that on there?

Also where "KP1" is located on the prints is that were the new security panel will be located at?

RESPONSE:

1. **Refer OAS Lettered dated 07-07-2017 along with revised sheet E2.10 and E5.10. addressing both items.**

BN-RFI: 05 –Electrical plan clarification:
REQUEST

There is a new electrical panel (KP1) being added for this project.
The One-Line Riser drawing on Sheet E5.10 does not show Panel KP1 being added or how it will tie into the existing switchboard.

- How is Panel KP1 powered by the existing switchboard, what size/type of breaker is required in existing switchboard and what conduit and wire size will be required for the panel feeder for new Panel KP1?

Sheet E1.00 – Note 2 indicates that underground conduits for the new parking lot lights and future cameras shall be galvanized rigid conduit (GRC).

- Would the use of Schedule 40 PVC conduit be acceptable for this installation?

Sheet E1.10 has a lighting control schedule with nLight control devices, but there is not a specification section for lighting controls.

- Will there be a specification section issued for the lighting controls?

RESPONSE:

1. **Refer OAS Lettered dated 07-07-2017 along with revised sheet E5.10. addressing these items.**

BN-RFI: 06 –Arch plan and specification clarification:
REQUEST

I have a few clarifications for the Carlson Elementary Gymnasium Addition.

1. There are notes on Detail 1 & 2 on sheet A3.00 that do not coincide with the notes listed on the page; 1, 15, 30, 31 & 32. Please clarify.
2. At the pre-bid meeting it was discussed that the owner would pay for all testing. In spec section 084523 it states that the contractor is to engage a testing agency for the water spray test. Please clarify.
3. The specifications call for a Gym Divider Curtain as well as Batting Cages. These are not shown on the drawings. Please clarify.

RESPONSE:

1. **Key Note 1 is reference to brick veneer accent band only.**
   a) **North Elevation 2 - Keynote 1 on either side of pair of double doors would be revised to Keynote 2 indicating brick veneer.**
   b) **East Elevation 1 – Key Note 1 located below Exist Canopy would be revised to Keynote 2 indicating brick veneer (Column Pier as indicated on sheet A1.10**
   c) **Key Note 15 revised to read existing TPO roofing system.**
   d) **Key Note 30 revised to read 6" x 6" box gutter system to match existing, see detail 2/A3.36**
   e) **Key Note 31 (Definition Missing from plans) To read existing wrapped metal fascia system**
   f) **Key Note 32 (Definition Missing from plans) To read new metal fascia system, see detail 2/A3.36**
2. **Specification Section 084523 under 3.3 Field Quality Control, owner will engage qualified testing agency to perform test and inspection, general contractor will coordinate inspections**
3. **Omit reference to both divider curtain and batting cages as called for in specification section 116623 Item 2.10 and 2.11**

BN-RFI: 07 –Arch plan and specification clarification:
Request:

- **On Drawing Sheet G1.01- Drawings Index(Civil) has C01 to C08 numbers only and Civil Drawing set has drawings from C01 to C17 Which does not match. Please Clarify.**
- **Please Clarify the extent of site work, Site Utility work to be include in the bid Proposal.**
- **Please provide Toilet Accessories Specification.**
- **Please provide Liquidated damage per Day, if any.**

RESPONSE:

1. **Please refer to attached revised Civil drawings index information.**
2. **Yes site utility scope of work is to be included in Proposal.**
3. **See attached Toilet accessories schedule, Product based on Bradley Model number**

4. **Liquidated damages do not apply to this project, however as noted in Specification Section 011000 Summary 1.5 Phase Construction Item B; Milestone Completion Requirements Items a - d for both phase I & II of this project. Refer to item d.**

BN-RFI: 08 – Arch wall section clarification:
Request:

After going through the plans it has been noticed that the roofing details throughout much of the section have been called out wrong. Could that get clarified?

RESPONSE:

1. **Building Wall Section Clarification.**

   a) **Sheet A3.00 - East Elevation 1 - Walls Section Tag to Read1/A3.31 in lieu of what is noted**
   b) **Sheet A3.00 – North Elevation 2 – Wall Section Tag to Read 1/A3.35 in lieu of 1/A3.31**
   c) **Sheet A3.00 – North Elevation 2 – Foyer Wall Section Tag to Read 1/A3.36 & 1/A3.37 in lieu of 1/A3.31**
   d) **Sheet A3.36 Wall Section 1 – Roof Detail Tag at Fascia to Read 2/A3.36 in lieu of 3/A3.34 & Wall detail 3/A3.34 To Read 3/A3.36**
   e) **Sheet A3.37 Wall Section 1 Roof Detail Tag to Read 2/A3.37 in lieu of 3/A3.34**

BN-RFI: 09 – Arch wall section clarification:
Request:

On sheet A3.37, there is a note on wall detail 2 that states to provide R-38 sprayed foam insulation w/ intumescent fireproofing with arrows that point to the beam and foam hatching. Is the intumescent paint meant to be applied to the foam to act as a thermal barrier, or is the intumescent paint to be applied directly to the steel? The spec'd intumescent paint, AD Firefilm III, can only be applied to interior steel. If a thermal barrier is required on the foam, please clarify that as well.

Response:

a) As reference provide intumescent paint that is acceptable to foam insulation application. Acceptable project material for base bid would be Johns Manville Ignition Barrier (IB) Coating is a single-component, water-based, intumescent coating designed for application as an ignition barrier over foam insulation.
b) Sheet A3.37 disregard arrow pointing to bottom of beam.
c) We will be applying a layer of Intumescent paint as call out in specification at all exposed beam lintels doorway opening in rated 2 hour wall common wall assembly's as indicated by P1 and P3 on sheet A1.10

BN-RFI: 10 – Product Substitution Request Specification Section 072726
Request:

Response:

BASF Masterseal AWB 660 product is accepted and subject to compliance with specified project requirements as listed in specification section 072726 under Products 2.3 Vapor Retarding Membrane Air Barriers: Is considered an acceptable substitution request. Note: For project documentation please submit this product on CSI Form 13.1A as called for in the specification of the project manual

BN-RFI: 11 – Product Substitution Request Specification Section 116623. As submitted on CSI Form 13.1A
Request:

Response:
ACI Arizona Courtlines, IncProject product is accepted and subject to compliance with specified project requirements as listed in Specification Section 116623

BN-RFI: 12 –TPO Roofing Specification Section 075423 3.3 Insulation Installation Items G & H Clarification
Request:

Good morning, I have a question in regards to the roofing make-up. First specs state that insulation is (1) first layer mechanically fastened, (2) second layer adhered in "full spread" adhesive. Next it calls for the ¼" coverboard to then be mechanically fastened, but also talks about "full spread" adhesive.

Please clarify how system is installed. I suggest we mechanically fasten both layers of insulation and adhere coverboard in "full spread". It will still get required warranty. Also, plans call for 5" of insulation for an R-30 value. Two layers of 2.6 amounts to R30. So total insulation thickness would be 5.2".

Response: Specification are Revised as follows

G. Mechanically Fastened and Adhered Insulation: Install each layer of insulation and secure first and second layer of insulation to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.

1. Fasten first layer of insulation according to requirements in FM Approvals' "RoofNav" for specified Windstorm Resistance Classification.

Omit line item 2 completely from specification section

~~2. Set each subsequent layer of insulation in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place~~

H. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches n each direction. Loosely butt cover boards together and fasten to roof deck.

Omit line item 1 completely from specification section

1. ~~Fasten cover boards according to requirements in FM Approvals' "RoofNav" for specified Windstorm Resistance Classification.~~
2. Set cover-board to subsequent layers of insulation in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

The intent of the architectural drawings in to archive an R-30 insulation value as per the IECC Code. Adjust plans as required to meet these requirements.

BN-RFI: 13 – Site & project clarification
Request

Please clarify the following:

- no building sprinkler system is required.
- No RRWRD fees, including application fees are to included (see Note 2 on Sheet C01, I understood, from the pre-bid, that the application fee may be paid by Contractor).
- Is contractor responsible for Owner's traffic control? If so, what's the plan and requirements?

Response:

a) **Correct- no building sprinkler system required**
b) **General contractor submit and pays for RRWRD application fee, RPS pays for hook-up fees**
c) **No- RPS will coordinated all school day traffic control**

<u>See the following attachments</u>

a) Carlson Pre-Bid meeting Sign- In Sheet dated 06-29-2017.
b) RPS Pre-Bid Opening Statement dated 06-29-2017
c) Pre-Bid Meeting Minutes dated 06-29-2017
d) Carlson Project Phasing Layout for Phase One & Two (Floor Plan & overall description)
e) Submittal Exchange 2017 Pricing Exchange for Construction

Hagney Architects LLC

a) Hagney Revised Sheet A8.00 Finished Plan Dated 07-07-2017
b) Hagney SU-1 Rated Ceiling Assembly dated 07-07-2017
c) Hagney SU-2 Toilet Accessory Schedule date 07-07-2017

ARC DESIGN Recourse Inc.

a) ARC Revised Sheet C01 General Notes, dated 07-05-2017
b) ARC Revised Sheet C02 General Notes, dated 07-05-2017
c) ARC Revised Sheet C03 NE Removal Plan, dated 07-05-2017
d) ARC Revised Sheet C04 SE Removal Plan, dated 07-05-2017
e) ARC Revised Sheet C05 SW Removal Plan, dated 07-05-2017
f) ARC Revised Sheet C06 NW Removal Plan, dated 07-05-2017

g) ARC Revised Sheet C07 NW Removal Plan, dated 07-05-2017
h) ARC Revised Sheet C08 SE Layout/ Utility Plan, dated 07-05-2017
i) ARC Revised Sheet C09 SW Layout/ Utility Plan, dated 07-05-2017
j) ARC Revised Sheet C10 NW Layout/ Utility Plan, dated 07-05-2017
k) ARC Revised Sheet C11 NE Grading/ Erosion Control Plan, dated 07-05-2017
l) ARC Revised Sheet C12 SE Grading/ Erosion Control Plan, dated 07-05-2017
m) ARC Revised Sheet C13 SW Grading/ Erosion Control Plan, dated 07-05-2017
n) ARC Revised Sheet C14 NW Grading/ Erosion Control Plan, dated 07-05-2017
o) ARC Revised Sheet C15 Details ,dated 07-05-2017
p) ARC Revised Sheet C16 Details ,dated 07-05-2017
q) ARC Revised Sheet C18 Details, dated 07-05-2017

OSA, LLC
Engineering Services MEP Consultant

a) Attached Letter from OAS dated 07-07-2017
b) OSA Revised Sheet E2.10 Dated 07-07-17 (See attached sheet)
c) OSA Revised Sheet E5.10 Dated 07-07-17 (See attached sheet)

S2O Kitchen Consultants

a) Attached Letter from S2O dated 07-07-2017

Rockford Public School
a) Attached Speciation Section 004115 – References.

End of Addendum #1

ROCKFORD PUBLIC SCHOOLS
IFB 17-63 Carlson Elementary School Gymnasium Addition & Renovations Project
Pre-Bid Meeting Sign-In Sheet
Thursday, June 29, 2017 at 11:00 a.m.

PRE-BID CONFERENCE OPENING STATEMENT

Welcome to the mandatory pre-bid conference for IFB 17-63 Carlson Elementary school Gymnasium Addition and Renovations Project for the Rockford Public Schools.

The purpose of this meeting is to receive input, comments, questions, clarifications and suggested changes relative to this solicitation. As a reminder, the only acceptable changes to the Bid/RFP are formal Addendums published by the RPS Purchasing department. Additionally, the Addendum may address other issues identified by the School District.

The goal of today's meeting is to increase your knowledge of the solicitation as it is written and provide an information mechanisim in which you may advise the School District of any changes it should make. Consequently, any changes you wish the Rockford Public Schools to consider must be submitted in writing to the Purchasing department before the deadline as expressed in the solicitation.

We will try to answer as many of the questions as possible. If we cannot answer a question today, we will defer that answer to the published Addendum. Additionally, minutes from this pre-bid conference will be published in the Addendum.

- Bid Opening is scheduled for Tuesday, July 18, 2017 at 2:00 pm Rockford Board of Education, 6 floor Conference Room. Late bids will not be accepted. Faxed or emailed bids will not be accepted.
- Board Approval Tuesday, August 8, 2017
- Bid RFI Procedures – Email Only – All correspondence during the bid process MUST be sent to Rickey Spark Director of Purchasing via email at rickey.sparks@rps205.com. Last RFI will be accepted until Monday, July 10th at 12:00 pm. Last addendum will be issued by Wednesday, July 12th at 3:30 pm.
- Addendums will be emailed to all attendees at the pre-bid conference, posted on the RPS website, Demand Star and the 3 printing companies.
- PLEASE reference the **REQUIRED FORMS CHECK LIST** for all documents that **must** be submitted with your bid offer form. All forms must be properly completed, signed and submitted or your bid will be deemed non-responsive. 5% Bid bond for the Base bid to be included.

I will turn it over to the Project Manager for summary of the project.

ROCKFORD PUBLIC SCHOOLS
IFB 17-63 Carlson Elementary School Gymnasium Addition & Renovations Project
Pre-Bid Meeting Sign-In Sheet
Thursday, June 29, 2017 at 11:00 a.m.

ROCKFORD PUBLIC SCHOOLS
WORLD-CLASS EDUCATION FOR ALL CHILDREN

PRE-BID MEETING SIGN-IN SHEET

IFB 17-63 Carlson Elementary School Gymnasium Addition & Renovations

	Printed Name	Company Name	Company Address	Telephone	E-mail
GC 1	Gacob Lenox	Scandroli construction	855 N Madison St. Rockford IL 61107	815-962-4037	gacob.lenox@scandroli.com
GC 2	Jim Holloway	Sjostrom & Sons	1129 Harrison Ave. Rockford IL 61104	815-226-0330	jholloway@sjostromconstruction.com
GC 3	JIM FRYKMAN	STENSTROM	2420 20th St. ROCKFORD, IL. 61108	815-398-2420	jimf@rstenstrom.com.
GC 4	Andrew Poulos	Poulos Construction	735 S Laramie Ave. Chicago, IL 60644	773 626-8600	admin@pouloscontruction
GC 5	Jeannette Sheehan	LARSON & LARSON BLDRS	5612 Industrial Ave Loves Park, IL 61111	815-633-1773	jeannette@LLBuilders.net
6	DAN LEI	MORSE ELECTRIC INC.	500 W. SOUTH STREET FREEPORT, IL 61032	815-266-4217	DLEI@THEMORSEGROUP.COM
7	RYAN SHAULIS	ARC DESIGN	5291 ZENITH PARKWAY LOVES PARK, IL 61111	815-484-4300	rshaulis@arcdesign.com
GC 8	NICK REDIESKE	CORD CONSTRUCTION	1322 EAST STATE ST. ROCKFORD, IL 61104	815-965-6630	REDIESKE@CORDCONSTRUCTION.com

ROCKFORD PUBLIC SCHOOLS
IFB 17-63 Carlson Elementary School Gymnasium Addition & Renovations Project
Pre-Bid Meeting Sign-In Sheet
Thursday, June 29, 2017 at 11:00 a.m.

	Printed Name	Company Name	Company Address	Telephone	E-mail
9	Terry Dungerberg	Rockford Structures	10540 N. 2nd St Machesney Pk	815.633.6161	tdungerberg@ rockfordstructures.com
10	Harrison Fenton	Miller Engineering	1616 S. Main St.	815-963-4888	HFenton@meccgroup.com
11	Debbie Dimmick	RPS 205		815-981-5101	debra.dimmick@ rps205.com
12	Larry Arnold	OAS, LLC		815-558-4016	LARNOLD@ OASLLC.NET
13	Mark Kekelp	Hagney Architects			
14					
15					
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MINUTES OF THE MEETING

Date: Thursday, June 29th 2017

Time: 11:00 AM PM

Location: Carlson Elementary School

PROJECT NAME: IFB No. 17-63 Carlson Elementary School Gymnasium Addition and Renovation.

Attendees: See Attached List

Meeting Purpose: Mandatory Pre-Bid Meeting

ITEMS DISCUSSED

1. Question- Regarding commissioning for the Carlson Elementary School Project.
   Response- Commissioning is not required for IFB No. 17-63 Carlson Elementary School Gymnasium Addition and Renovation.

2. Question – Regarding Additional walk through
   Response – Contact *Debbie Dimmick, Architect* Assistant Project Manager Rockford Public Schools Office: 815-966-3010 Ext. 74005

3. Question – Regarding RRWRD IC Permit Process, Application fee? Connection fee
   Response – Refer to sheet C01, under Sanitary Sewer Notes#2. Application fee by general contractor, connection fee by RPS

4. Question – Repairing of existing exterior plaster soffit construction. Hagney will address this item by Addendum plan information per sheet layout

5. Question – Regarding RRWRD IC Permit Process, Application fee? Connection fee
   Response – Coordination of RRWRD Application & fee by general contractor, connection fee by RPS. This will be address by ARC Design in Addendum #1

6. Additional Information stated as part of Pre-bid Meeting notes.
   a) Contractor qualification statements must be submitted with your bid package
   b) Reference to TSC Report on Soil Exploration.
   c) Reference to Project Summary – 011000, phasing of project 7 Milestone completion dates
   d) Reference to Unit prices 012200
   e) Reference to Alternates 02300, project has 4 alternates- Phase One Alternate A-2, Phase Two Alternates A-1. A-3 & A-4
   f) Reference to Substitutions 012500, including CSI form 13.1A
   g) Reference to Temp. Facilities and Controls 015000, Part 3.4 Item J " Temporary Enclosure" Hagney will make a final clarification regarding Insulated temporary enclosure.
   h) Reference to Quality Requirements 014000 – Conformation of Called Inspection sheet I-13 further reference per specification sections under Field Quality Control
      - 033000 – Cast in Place Concrete; Part 3.15
      - 042000 – Unit Masonry, Part 3.12
      - 052100 – Steel Joist Framing, Part 3.3
      - 053100 – Steel Decking, Part 3.4
   i) Reference to On line "Cloud" Base collaborative, Based on Submittal Exchange 013100 1.4 Item D (Note I am including S/E 2017 Pricing breakdown for your

reference)

j) Hagney Hand Out – Indicating Phase one and phase two layouts
k) Testing under owner testing agency B&F and State of Illinois, Fee's by RPS, Inspection coordination by general contractor
l) Close Out Procedure Refer to division 11770 , Part 1.10 Electronic Closeout documentation coordination with BHFX

The above summation is our interpretation of the items discussed and the decisions reached at the above referenced meeting. Any persons desiring to add to or correct the minutes are requested to put their comments in writing within ten days otherwise the minutes will stand as written.

Mark Kehely, Project Manager
Hagney Architects, LLC

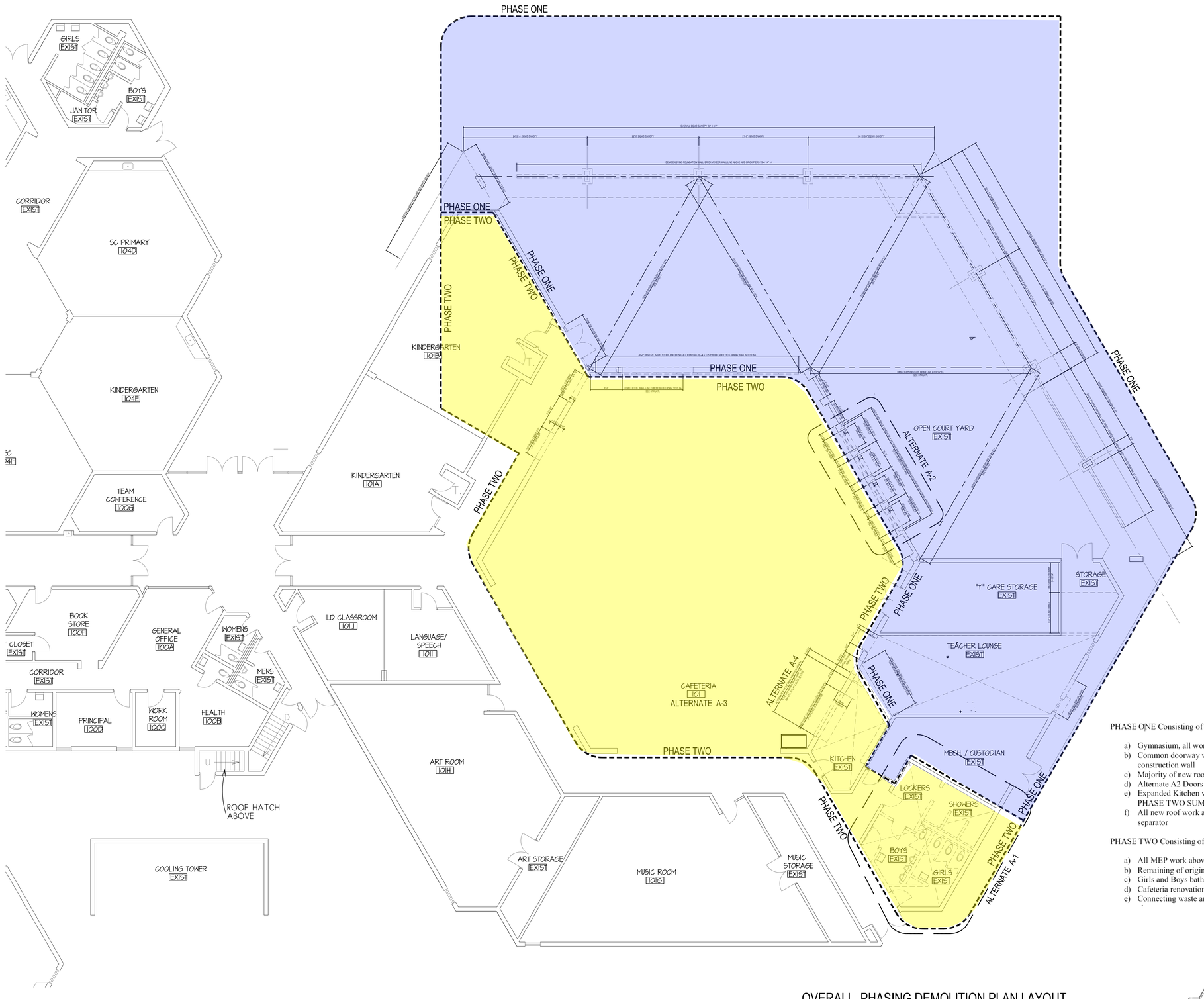
cc: All those present

PHASE ONE Consisting of the following:

a) Gymnasium, all work associated with MEP to this area, including gas piping.
b) Common doorway wall opening between new and existing gymnasium. Provide temporary construction wall
c) Majority of new roof work from new and existing gymnasium common working area.
d) Alternate A2 Doors to open court yard. If accepted provide temporary construction wall
e) Expanded Kitchen work including grease separator (NOTE EXISTING KICTHEN PART OF PHASE TWO SUMMER OF 2018)
f) All new roof work and MEP work associated with Expanded Kitchen work including grease separator

PHASE TWO Consisting of the following:(Start END of School year 2018)

a) All MEP work above ceiling work in the original cafeteria serving new gym
b) Remaining of original kitchen area now being tied to new kitchen
c) Girls and Boys bathroom (Alternate A1) If Accepted
d) Cafeteria renovation scope of work
e) Connecting waste and service lines to the new gymnasium drinking fountain from kindergarten



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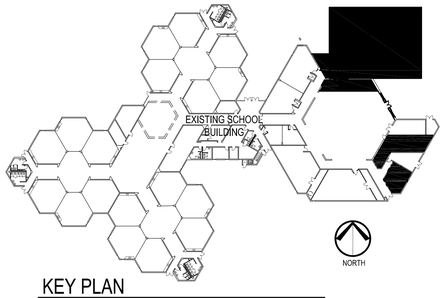
OVERALL PHASING DEMOLITION PLAN LAYOUT

SCALE: 1/8" = 1'-0"



KEY PLAN

NOT TO SCALE

NO.	DATE	DESCRIPTION
1	04-07-17	BID & PERMIT DOCUMENTS

ISSUANCE

HAGNEY ARCHITECTS LLC
Architecture, Planning, & Interior Design
4615 E. State St. Suite 206
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F: 815.397.0243
E: Business@HagneyArchitects.com
www.HagneyArchitects.com

PROFESSIONAL SEAL

EXPIRATION DATE

DATE	04-07-17
DRAWN	
CHECKED	
APPROVED	

CARLSON ELEMENTARY SCHOOL
ROCKFORD PUBLIC SCHOOL
ROCKFORD, ILLINOIS

SHEET NO.
PH1.00

HAGNEY JOB NO. C1824

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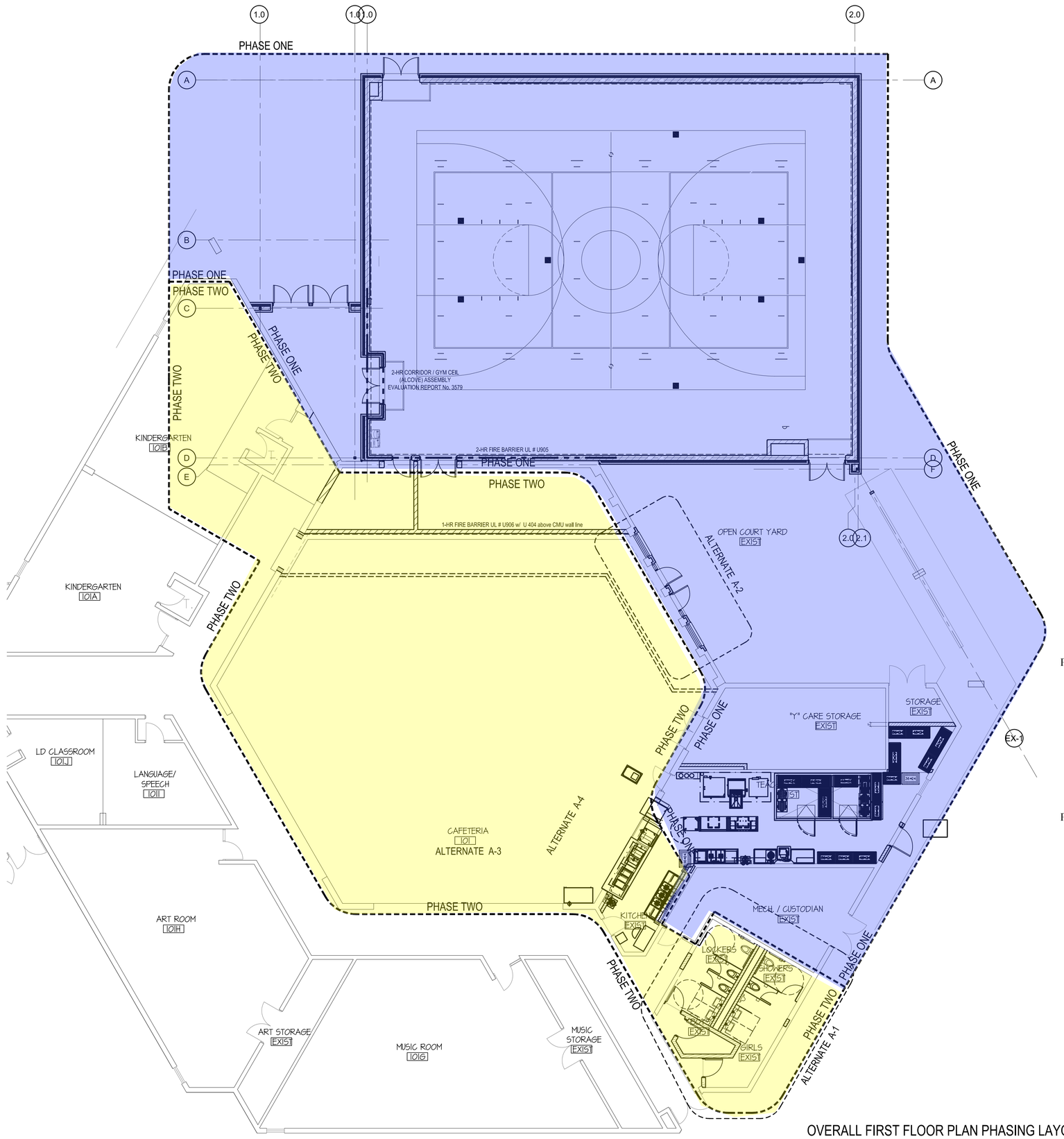

OVERALL FIRST FLOOR PLAN PHASING LAYOUT

SCALE: 1/8" = 1'-0"

PHASE ONE Consisting of the following:

a) Gymnasium, all work associated with MEP to this area, including gas piping.
b) Common doorway wall opening between new and existing gymnasium. Provide temporary construction wall
c) Majority of new roof work from new and existing gymnasium common working area.
d) Alternate A2 Doors to open court yard. If accepted provide temporary construction wall
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f) All new roof work and MEP work associated with Expanded Kitchen work including grease separator

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a) All MEP work above ceiling work in the original cafeteria serving new gym
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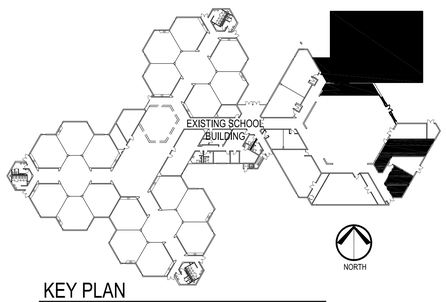

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CARLSON ELEMENTARY SCHOOL
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ROCKFORD, ILLINOIS

SHEET NO.
PH2.00

HAGNEY JOB NO. C1824

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SUBMITTAL EXCHANGE

2017 PRICING—SUBMITTAL EXCHANGE FOR CONSTRUCTION

Subscriptions to Oracle's Primavera Submittal Exchange are available for construction projects on a project-by-project basis. The subscription fee represents a small portion of the value that the Owner, Architect, Contractor and other team members will receive through improved project organization, reduction of unnecessary paperwork, and the creation of a permanent electronic database of building documentation during the construction phase.

Project subscriptions during the construction phase include:

- **Use of Submittal Exchange Website**
  Access to project information and use of the Submittal Exchange website for exchange of electronic documents; tracking and monitoring of all project submittals and closeout items; tracking of other documents such as RFIs, ASIs, meeting minutes, etc.; and unlimited accounts for use by the Owner Architect, Contractor, Construction Manager, Consultants and all other project team members.

- **Data Storage, Hosting & Security**
  All information on the Submittal Exchange website is hosted on servers at our secure data centers; protected with dedicated hardware firewalls, 256-bit SSL encryption, and SHA-1 password-protected authentication; and automatically backed up in multiple redundant locations.

- **Setup, Training & Support by Submittal Exchange Staff**
  Submittal Exchange staff will setup the project logs based on the specification manual; conduct training for all team members; and provide ongoing support by phone and e-mail.

- **Electronic Archive**
  Throughout the active subscription and at the conclusion of the project, an electronic "Archive Package" copy of documents can be requested and downloaded by the Project Leader. Project logs will be recorded in HTML format in the archive package, with direct links to the file for each document recorded in the project log(s). The archive package can be shared with other project teams.

Fees are due at the beginning of the subscription and are calculated based on project size (Estimated Construction Value).

Project Size (Estimated Construction Value)	*Subscription Fee*
$1,000,000 or less	$2,195
$1,000,000 - $3,000,000	$3,795
$3,000,001 - $6,000,000	$5,395
$6,000,001 - $9,000,000	$6,995
$9,000,001 - $12,000,000	$8,595
$12,000,001 - $15,000,000	$10,195
$15,000,001 - $18,000,000	$11,795
Each additional $5,000,000 or portion thereof	$1,600

This pricing chart is for general reference only. Please contact the Submittal Exchange sales department to request a proposal for use on a specific project or subscription.

Projects are typically limited to 30 months of use beginning at the start of construction, and 10 gigabytes of total file storage, unless requested otherwise in advance. Additional use or storage will be charged a pro-rated fee based on the overall subscription. Most projects last 12 to 18 months and require less than 2 gigabytes storage. Prices listed above are valid through June 30, 2017.

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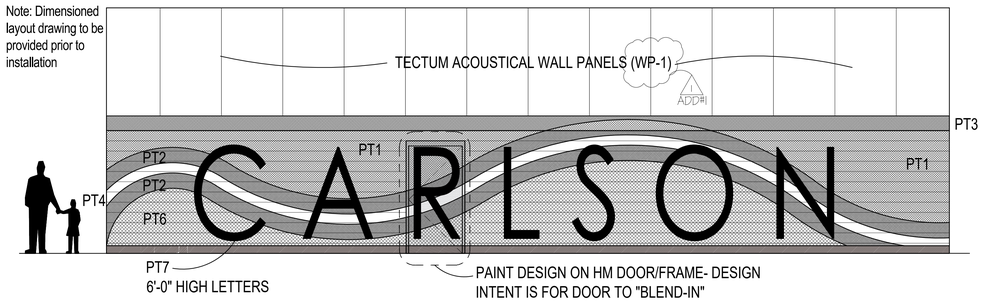
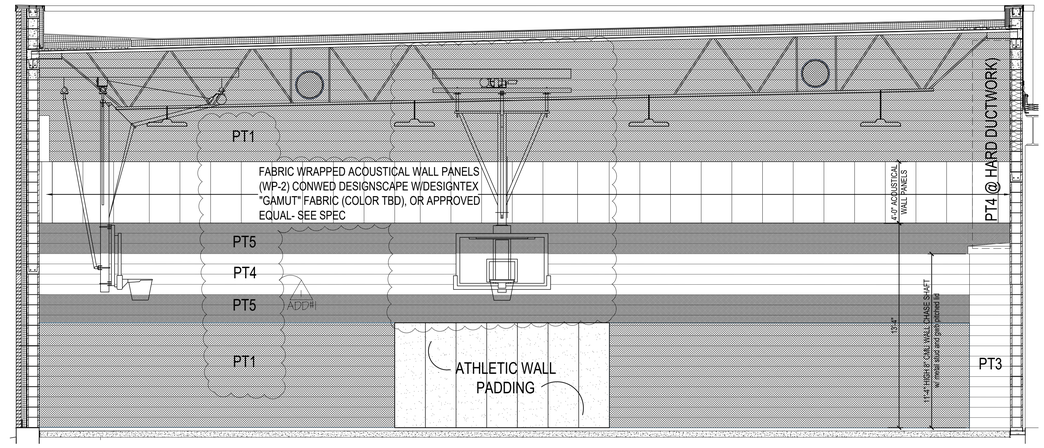


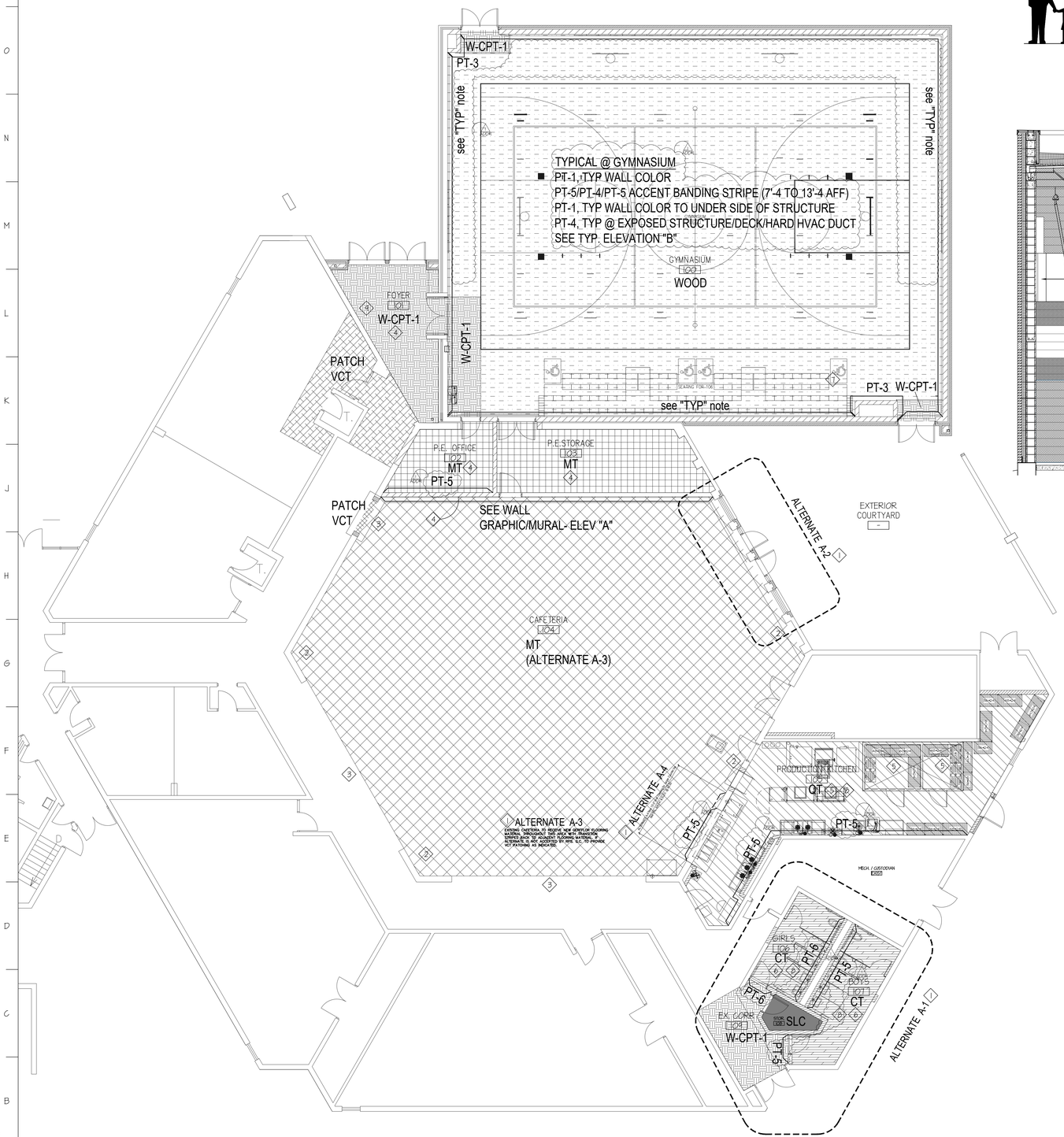
"A" CAFETERIA FOCAL WALL- PAINT LAYOUT (NORTH WALL)

SCALE: 1/4" = 1'-0"



"B" TYPICAL GYMNASIUM PAINT LAYOUT (EAST WALL SHOWN)

SCALE: 1/4" = 1'-0"



FINISH PLAN

SCALE: 1/8" = 1'-0"

FINISH PLAN KEY NOTES

- X — SEE SPECIFICATIONS FOR FLOOR PREP, ADHESIVES AND INSTALLATION GUIDELINES
- 1 — INDICATES ALT BID. SEE FLOOR PLAN SHEETS.
- 2 — AS PART OF ALTERNATE A-3: CUT MODULAR TILE TIGHT TO EXIST GLAZED BASE AND CAULK WITH COLOR TO MATCH TILE
- 3 — AS PART OF ALT A-3: TAPERED TRANSITION STRIP PER MODULAR TILE MFR.
- 4 — 6" RUBBER BASE (ROPPE "194 Burnt Umber")
- 5 — QUARRY TILE BASE
- 6 — CERAMIC TILE BASE
- 7 — SEE MEP SHTS FOR EXPOSED DUCTWORK & PIPING (PAINTED)
- 8 — SEE MEP SHTS FOR FLOOR DRAIN LOCATIONS
- 9 — EXISTING BRICK- CLEAN

GENERAL ROOM FINISH SCHEDULE NOTES

A. START POINT FOR ACT CEILINGS TO BE CENTER OF ROOM UNLESS NOTED BY A START POINT.
B. PAINT ALL INTERIOR AND EXTERIOR HOLLOW METAL DOORS, AND FRAMES.
C. PROVIDE TRANSITION STRIP AT ALL LOCATIONS WHERE FLOORING MATERIAL CHANGES
D. EXTEND SCHEDULED PAINT ON WALLS UP TO 1'-0" ABOVE THE FINISHED CEILING. IN ROOMS NOT SCHEDULED TO RECEIVE A CEILING, EXTEND SCHEDULED PAINT UP THE ENTIRE HEIGHT OF THE PARTITION, UNLESS NOTED OTHERWISE
E. AT ALL EXPOSED AREAS, PAINT ALL WALLS, STRUCTURE, INCLUDING CONCRETE, METAL DECK, STEEL BEAMS, COLUMNS, PIPING, CONDUIT, DUCTWORK AND OTHER EQUIPMENT ETC.
F. DO NOT PAINT DOOR AND FRAME FIRE RATING LABELS.
G. SEE PHASING PLAN- FOR SCHEDULED AREAS OF WORK

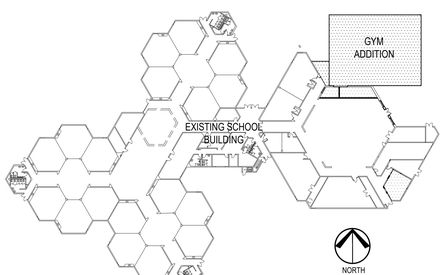
FINISH LEGEND

- QT : AMERICAN OLEAN, SHADOW GRAY, ON46 (FLOOR /BASE)
- PATCHED VCT
- (ALT BID 3) MODULAR TILE : GERFLOR ATTRACTION, 0291 AURARAE
- W-CPT-1: SHAW, ENTREE TILE, BLUE 31400
- WOOD STRIP FLOOR/VENTILATION SYSTEM
- (ALT BID A-1) CT- CERAMIC TILE/BASE: DALTILE- KEYSTONES, URBAN PUTTY SPECKLE D201(2X2)
- SEALED CONCRETE
- MODULAR TILE : GERFLOR ATTRACTION, 0291 AURARAE

PAINT LEGEND

(VERIFY COLORS WITH ARCHITECT PRIOR TO SUBMITTAL/SHOP DRAWINGS)

PT-1: SHERWIN WILLIAMS, SW 7015 REPOSE GRAY (TYP WALLS)
ADD#1 PT-2: NOT USED
PT-3: SHERWIN WILLIAMS, SW 7019 GAUNTLET GRAY (ACCENT 2/HM FRAMES)
PT-4: SHERWIN WILLIAMS, SW 7757 HIGH REFLECTIVE WHITE (ACCENT 3/MTL DECK/JOISTS)
PT-5: SHERWIN WILLIAMS, SW 6804 DIGNITY BLUE (ACCENT 4)
PT-6: SHERWIN WILLIAMS, SW 6381 ANJOU PEAR (ACCENT 5)
PT-7: SHERWIN WILLIAMS, SW 7069 IRON ORE (ACCENT 6)



KEY PLAN

NOT TO SCALE

ISSUANCE		
NO.	DATE	DESCRIPTION
1	04-07-17	BID & PERMIT DOCUMENTS
	07-07-17	REV #1- ADDENDUM ONE

HAGNEY ARCHITECTS LLC
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PROFESSIONAL SEAL

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DATE	04-07-17
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CARLSON ELEMENTARY SCHOOL
ROCKFORD PUBLIC SCHOOL
ROCKFORD, ILLINOIS

INTERIOR FINISH INFORMATION

SHEET NO.
A8.00

HAGNEY JOB NO. C1824

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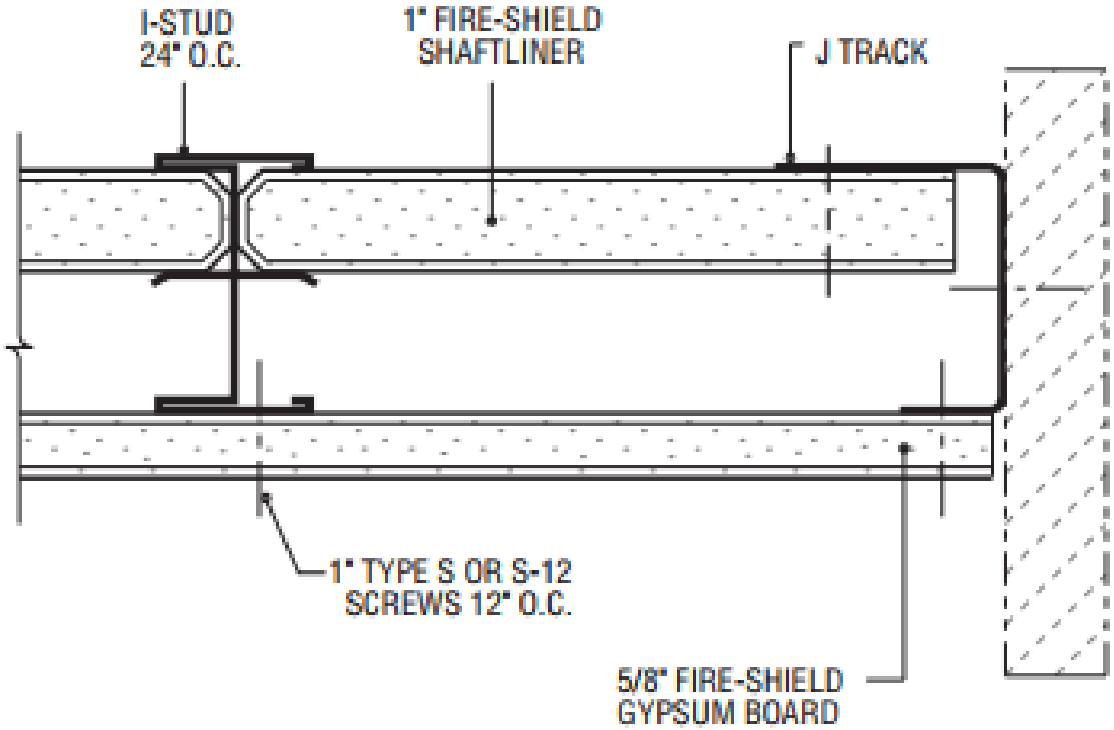

ONE HOUR HORIZONTAL SHAFTWALL-CORRIDOR CEILING AND STAIR SOFFIT*

HAGNEY ARCHITECTS LLC	1 Hour Fire Rating Assembly (P.E. Storage Room 103)	Not to Scale	DATE 07-07-2017	SHEET NO. SU-1
	Carlson Elementarty School		PROJECT NO. C1824	

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	MANUF.	MODEL
1	MIRROR - 30" - FRAMED	BRADLEY	0620-2430
2	36" GRAB BAR	BOBRICK	B-5806-36
3	42" GRAB BAR	BOBRICK	B-5806-42
4	18" GRAB BAR	BOBRICK	B-5806-18
5	HAND DRYER- RECESSED- XLERATOR	EXCEL DRYER	XL-W
6	TOILET TISSUE DISPENSER	BRADLEY	5425

HAGNEY ARCHITECTS LLC

Toilet accessory Schedule (Girls 106 & Boys 107)

Not to Scale

DATE 07-07-2017

SHEET NO. SU-2

Carlson Elementarty School

PROJECT NO. C1824

SANITARY SEWER NOTES [RRWRD]

1. Sanitary Sewer shall be constructed in accordance with the following:
   A. "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), fifth edition dated May 1996, and all revisions and supplements thereto.
   B. "General Provisions and Technical Specifications for Sanitary Sewer Construction" in the Rock River Water Reclamation District Sanitary District (formerly known as the Sanitary District of Rockford) dated October 24, 1983, and all standards and revisions adopted by the Board of Trustees for said Sanitary District of Rockford.
   C. Additional details and requirements provided in the contract documents, including this plan set.
   Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.

2 2. The contractor shall coordinate all RRWRD fees associated with this project, the contractor shall pay all application fees. Connection fee if applicable will be paid by the Rockford Public Schools.

3. All PVC sanitary sewer (SDR 26 AND SDR 35) shall meet the requirements of ASTM D-3034 (4"-24") or ASTM F-679 (18"-24") with joints conforming to ASTM D-3212. All PVC watermain-quality sanitary sewer (SDR 26) shall meet the requirements of ASTM D-2241 with joints conforming to ASTM D-3139. Pipe bedding for all PVC pipe shall be Class 1A per ASTM D-2321-74.
4. Sanitary sewer services shall be 4" PVC/Watermain Quality SDR 26 in accordance with ASTM D-2241, and shall extend 3' past the property line of all lots. Joints between the wye and end of service riser shall be gasketed in accordance with ASTM D-3139. All services shall be sloped from the main at 1% MINIMUM unless otherwise noted. Mark at property line with a 2x4 painted green. End of service risers are required in accordance with the RRWRD standard details included in these plans.
5. WYE or TEE branches shall be a minimum 7' from the outside of any sanitary manhole and be furnished and installed by the Contractor as shown on the Engineering drawings.
6. All testing, fittings, bedding, granular cradle, and trench backfill where necessary shall be included in the unit costs for the installation of the underground facilities unless quantified on plans.
7. PVC pipe should be installed with proper bedding providing uniform longitudinal support under the pipe. Bedding material should be worked under the sides of the pipe to provide satisfactory haunching. Initial bedding material should be placed to a minimum depth of one foot over the top of the pipe. All pipe embedment material should be selected and placed carefully, avoiding large stones, frozen lumps, and debris.
8. After placement and compaction of pipe embedment materials, the balance of backfill materials may be machine placed and should contain no large stones or rocks, frozen material or debris. Excavated materials free from topsoil may be used in the final trench depth provided they are placed in 9" lifts loose measured and compacted to not less than 95% ASTM D-698 standard proctor.
9. All sanitary sewer manholes shall have eccentric cones with the cone openings centered over the pipe. All manholes shall be guaranteed by the contractor for 3 years after RRWRD acceptance.
10. All sanitary sewer manholes shall be 48-inch diameter precast concrete, unless shown otherwise.
11. The allowable infiltration shall not exceed 200 gallons/inch diameter/mile/24 hours.
12. Sanitary sewers shall be air-tested in accordance with RRWRD requirements.
13. All new sanitary sewer manholes shall be vacuum tested in accordance with ASTM C 1244.
14. All sanitary sewers under or within two feet of any existing or proposed street pavement or curb shall be backfilled with IDOT approved granular backfill material. Trench backfill shall be placed in lifts not to exceed 9" compacted to 95% of maximum standard proctor density.
15. Rock River Water Reclamation District shall be notified 48 hours prior to the start of construction and air testing of sanitary sewers. Water main, water services, and storm sewer must be installed and RRWRD notified soon after installation before sanitary sewer testing can be performed.
16. Trenches must be backfilled to 2' below subgrade and mains and services must have 5' minimum depth of cover over the top of pipe before sanitary sewer testing can be performed.
17. Manhole frames shall be provided with self sealing lids, Neenah R-1670, East Jordan E 1117 or District approved equivalent frame and lid.
18. Upon completion of construction, all sanitary manhole castings shall be exposed and set at final grade.
19. Exterior manhole seals shall be required on all new manholes including the barrel sections.
20. Deflection testing for flexible conduit.
   A. All sanitary sewer lines shall be deflection-tested after 30 days following final backfill operations.
   B. If the deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95% of the base diameter of the pipe as established in proposed ASTM D-3034. The test shall be performed without mechanical pulling devices.
   C. Wherever possible and practical, the testing shall initiate at the downstream lines and proceed towards the upstream lines.
   D. Maximum allowable pipe deflection is 5%. Where deflection is found to be in excess of 5% of the original pipe diameter, the Contractor shall excavate to the point of excess deflection and carefully compact around the point excess deflection was found. The line shall then be retested for deflection. However, should after the initial testing the deflected pipe fail to return to the original size (inside diameter) the line shall be replaced.
21. For water main separation notes applicable to sanitary sewer, see Water Main note 8.
22. Where sanitary sewer depths exceed 12' the contractor shall use the Alternate Service Riser method to install the sewer service line so that the invert of the service, at the property line, is 10.5' below the proposed centerline grade.
23. Upon completion of construction all sanitary manhole castings shall be exposed and set to final grade. The District must inspect this work.
24. Exterior manhole seals will be required as part of manhole adjustments. Flattop manholes are not permitted. No adjusting rings are required outside a paved roadway or in a roadway with curb and gutter. All manholes adjusted or reconstructed where more than two rings are involved will require vacuum testing.
25. The Rock River Water Reclamation District will furnish a full-time inspector for all sanitary work.
26. All fill material in the area of sanitary sewer mains and services must be placed and compacted prior to installation of the sewer mains and services.
27. The Rock River Water Reclamation District specifies the following for manhole adjustment requirements:
   A. A minimum of 4" of adjusting rings (4" adjusting ring not required in turf areas or in full curb and gutter roadways)
   B. A maximum of 12" of adjusting rings
   C. A maximum of 1- 2" adjusting ring per manhole.
   D. A maximum of 30" from the top of casting to the first step
   Notes: Adjustment by grouting is not permitted. Where the roadway agency of jurisdiction allows, rubber adjusting rings shall be used
28. Labeled pipe lengths are from center of manhole to center of manhole.
29. Labeled sanitary sewer rates are calculated based on the difference between the invert elevations from the outside-to-outside distance of the manhole wall and the distance between the centers-tocenter of the manholes minus 5' for a 4' diameter manhole.
30. Refer to typical section for pavement and shoulder dimensions.

EARTHWORK NOTES

1. Boring samples have been taken at the proposed construction site and a boring report has been supplied with the construction documents.
2. Unsuitable Materials:
   Assume that if unsuitable materials are encountered and the replacement of these materials is required, this situation shall be handled as follows:
   A. The site contractor shall notify the general contractor immediately. The owner or owner's representative, prior to the undercutting being completed, must approve any additional undercutting. The quantities must be verified by the engineer as the additional removal is being completed.
   B. If approved by the general contractor, these materials shall be removed and replaced with compacted granular materials and compacted in accordance to required standards. The cost of this work shall be an extra to the contract, with the cost being adjusted by change order.
   C. If the site contractor is furnishing any off site materials, a representative sample of such materials shall be furnished to the general contractor's approved testing agency to determine a proctor.
   D. These materials shall be placed as homogeneously as possible to facilitate accurate compaction and moisture testing.
3. Definition for materials
   A. "Organic material" is defined as material having an organic content in excess of 8% or as determined by the project owner's engineer.
   B. Topsoil shall be friable and loamy (loam, sandy loam, silt loam, sandy clay loam, or clay loam). Sand content shall generally be less than 70% by weight, and clay content shall generally be less than 35% by weight. Organic soils, such as peat or muck, shall not be used as topsoil.
   C. Topsoil shall be relatively free from large roots, weeds, brush, or stones larger than 25 mm (1 inch). At least 90% shall pass the 2.00 mm (no. 10) sieve.
   D. Topsoil ph shall be between 5.0 and 8.0. topsoil organic content shall not be less than 1.5% by weight. Topsoil shall contain no substance that is potentially toxic to plant growth.
   E. "Existing on-site material" is defined as material of such a quality that the specified compaction can be met without any additional work other than "densifying" with a roller. Scarification and drying of this material will not need to be done prior to compaction.
   F. "Existing on-site material" is defined as material with a high moisture content that can not meet specified compaction requirements without scarification and drying, chemical stabilization, etc. of this material prior to compaction.
   G. "Unsuitable material" is defined as any materials that:
      G.1. Cannot be utilized as "topsoil", (organic) for landscape areas.
      G.2. Cannot be utilized as "engineered fill", regardless of moisture content and/or does not structurally meet the standards of the project owner's engineer's recommendations for "engineered fill".
      G.3. These materials can be defined as natural materials or materials from "demolition" and/or excavated areas; i.e., they are materials that would not be suitable for "engineered fill".
   H. "Off-site material" is defined as any materials that are brought from any area not indicated on this plan set.
   I. "Trench backfill" shall be defined as any materials used for the purposes of backfilling any trench and/or any excavation requiring backfilling. Refer to the section titled "standards for fill areas" for determine acceptable materials and procedures.
   J. The term "stripping" or "strip" as used herein shall be defined as the removal of all "organic materials" from a given area. the term "organic materials" is defined as material having an organic content over 8% based on ASTM test method d-2974 or as defined by the owner's engineer.
4. Standards for cut areas:
   A. A "cut area" is defined as any area where "engineered fill" is not required to bring the site to design subgrade elevation, instead excavation or "cutting" is required to achieve design subgrade elevation. ("Engineered fill" being defined as any material being "offsite material".)
   B. In "cut areas" the site contractor shall perform one of the following procedures at the discretion and in the presence of a representative of the owner's engineer and the project architect:
      B.1. Item 1: for exposed building or parking lot subgrades consisting primarily of granular soils the exposed subgrade should be compacted/densified by at least one (1) pass of a smooth-drummed vibratory roller having a minimum gross weight of 10 tons.
      B.2. Item 2: for exposed building or parking lot subgrades consisting primarily of cohesive soils, the exposed subgrades should be proof-rolled with a fully-loaded six-wheel truck having a minimum gross weight of 25 tons. the maximum allowable deflection under the specified equipment shall be 1/2".
   C. In the event that adequate stability of granular soils subgrades cannot be achieved by the procedures as outlined in item 1, above, or that deflections of greater than 1/2" are observed during the "proof rolling" of cohesive soils subgrades, as outlined in item 2, above, additional corrective measures will be required. These measures could include, but not necessarily be limited to, scarification, moisture conditioning, and re-compaction; undercutting & replacement with engineered fill and chemical stabilization, etc.. with crushed stone (with or without geotextiles); chemical stabilization, etc.
   D. It shall be considered as part of the scope of these documents and thus part of this contractor's responsibility to perform scarification and allow for drying of the subgrade per Illinois dot standards (scarify a 16" depth for 3 days). If this does not work then additional drying measures shall be an extra to the contract.
   E. Any proposed corrective measures by the contractor should be reviewed by the owner's engineer and the project architect. in the event that in the opinion of the owner's engineer and/or the project architect proof rolling is not a good indicator of the subgrade stability an alternative method shall be specified by the owner's engineer and/or the project architect.
5. Standards for fill areas:
   A. A "fill" area is defined as any area where material is required to adjust the existing elevation to a proposed subgrade elevation. These areas will require the installation of "engineered fill" to achieve design subgrade elevation. "Engineered fill" material can be defined as either "granular" and/or "soil" having their origin for either the construction site and/or "offsite material". Materials having their origin from the construction site is referred to as "borrow". The composition and the compaction standards of the engineered fill for this project will be specified by owner's engineer and the project architect.
   B. In "fill" areas will borrow materials are allowed to be utilized as engineered fill the site contractor shall compact the borrow to the specified compaction.
6. Compaction standards (for engineered fill and back filled areas)
   A. prior to placement of fill in areas below design grade, the exposed subgrade should be observed by a representative of the owner's engineer to evaluate that adequate stripping has been performed. Additionally, the proof rolling or compacting procedures outlined in the "standards for cut areas" section of this cpi should be performed. It is typical practice to proof roll, and densify if necessary, exposed subgrades prior to filling. If soft or unstable subgrades are observed, these areas should be stabilized or undercut. minimum compaction standards are based upon a percentage of the fill or backfill material's maximum standard proctor dry density (ASTM specification d-698). All engineered subgrades should meet the following minimum compaction:
      A.1. Areas under foundations bases:
         A.1.A. 98% standard proctor for all fill placed below foundation base elevation in the building area.
         A.1.B. areas under floor slabs and above foundations/footing bases:
         A.1.C. 98% standard proctor for all fill placed more than 12 inches below final grade for support of floor slabs and above foundation base elevation in the building area.
         A.1.D. 98% standard proctor for fill placed in the upper 12 inches of design subgrade below slabs. The granular fill under the floor slab should be compacted to at least 98% standard proctor.
      A.2. Areas under pavement sections:
         A.2.A. 98% standard proctor for all fill placed more than 12 inches below pavement sections and 95% standard proctor for the top 12 inches.
      A.3. Landscaped areas:
         A.3.A. 90% standard proctor for all fill placed in landscape areas. These areas should be brought to grade with "topsoil" to a depth of 12 inches in areas to be seeded, 6 inches in areas to be sodded, and 24 inches for all interior curbed landscape islands.
      A.4. Base course portion of pavement sections:
         A.4.A. 95% standard proctor for all base course materials that are part of a "pavement section".
   B. The option of utilizing the modified proctor (ASTM d-1557) in lieu of the specified standard proctor (ASTM d-698) shall be at the discretion of the general contractor, contingent upon written approval by the architect and owner's engineer and approved by the project architect.
   C. Place all backfill and fill materials in layers that are not more than 8" in loose depth. before compacting, moisten or aerate each layer as necessary to provide optimum moisture content. Compact each layer to required percentage of maximum density of the area.
7. Finish grading:
   A. The term "finish grading" as used herein shall be defined as that condition that areas not receiving a finish product such as parking areas, driveways, roadways, sidewalks, etc. finish graded areas would generally be those areas receiving "landscaping" such as seed, sod, trees, bushes, mulch, etc.
   B. The site contractor is responsible for "finish grading" all areas within the perimeter of the "construction site". The definition of the "construction site" is the area encompassing all disturbed areas that were disturbed as a result of the construction process relating to the general contract which this site contract was part of.

Sanitary Sewer Service Connection
1. Contractor must complete a standard RRWRD Industrial/Commercial (I/C) application and submit to RRWRD for approval of the sewers shown as part of the building connection permitting process.
2. The contractor shall coordinate all RRWRD fees associated with this project. The contractor shall pay all application fees, and should be reimbursed by the owner. Contractor shall provide the owner with a written breakdown of all RRWRD fees with evidence of payment.
3. RRWRD will require inspection of the sewer installation. Contractor shall coordinate this work directly with RRWRD. Owner shall pay for all inspection fees.
4. All sanitary sewer, manholes, services and other appurtenances shall be installed as required by the RRWRD and/or the [local agency] contractor is responsible for familiarizing himself with the specific requirements for materials and construction for these two agencies.
5. The City of Rockford may also require inspection of the building connections. the contractor shall coordinate all City inspections with the City of Rockford building inspector, if needed.
6. Contractor to install 6" service from main to designated point of connection as shown on the plans as part of sewer installation.
7. RRWRD sanitary sewer service connection permits will not be issued under the Standard RRWRD process until after the RRWRD has issued a "Notice Allowing Connections".

STORM SEWER NOTES

1. Storm sewer shall be constructed in accordance with the following:
   A. "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), fifth edition dated May 1996, and all revisions and supplements thereto.
   B. Concrete pavement shall be constructed in accordance with the Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge Construction" (Standard Specifications), latest edition, including all updates and standards thereto.
   C. Standards and requirements of City of Rockford.
   D. Additional details and requirements provided in the contract documents, including this plan set.
   Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.
2. Material Specifications. All storm sewer system elements shall conform to the following specifications:
   A. Sewer Pipe. All storm sewer pipe shall be reinforced concrete pipe unless otherwise specifically noted in this plan set.
      a. Sump pump service connection and storm sewer extension (4" and 6")--ABS sewer pipe or PVC sewer pipe ASTM D2751, SDR35, or ASTM D3034, SDR35, respectively.
      b. Concrete sewer pipe (10" diameter and smaller), minimum Class 3, ASTM C14.
      c. Reinforced concrete pipe (12" diameter and larger), circular reinforcement, minimum Class 3, wall B, ASTM C76.
      d. Reinforced concrete arch culvert pipe--single line reinforcement, minimum Class 3, ASTM C506.
      e. Reinforced concrete elliptical culvert pipe--minimum Class HE-III or VE-III, ASTM C507.
      f. PVC underdrain pipe (4" and 6")--ASTM D2729, SDR35.
      g. Galvanized corrugated steel culvert pipe AASHTO M246, Type B, minimum wall thickness 14 gauge (shall only be used for culverts).
   B. Sewer Pipe Joints.
      a. ABS pipe--ASTM C443.
      b. PVC pipe--ASTM D3212, push-on type, except underdrain pipe which shall have solvent welded joints.
      c. Reinforced concrete pipe--ASTM C443 ("O" ring).
      d. Reinforced arch or elliptical pipe--ASTM C877.
   C. Casing Pipes. Steel pipe--ASTM A120, 3/8" minimum thickness.
   D. Manholes and Catch Basins.
      a. Precast reinforced concrete--ASTM C478.
      b. Size:
      c. For sewer eighteen inches in diameter or less, manhole shall have a forty-eight inches inside diameter.
      d. For sewer twenty-one to thirty-six inches in diameter, manhole shall have a sixty inch inside diameter.
      e. For sewer greater than thirty-six inches in diameter, manhole shall have an offset riser pipe of forty-eight inches inside diameter.
      f. Adjustment: No more than two precast concrete adjusting rings with six inch maximum height adjustment shall be allowed.
      g. Pipe and frame seals: All pipe connection openings shall be precast with resilient rubber watertight pipe to manhole sleeves or seals. External flexible watertight sleeves shall also extend from the manhole cone to the manhole frame.
      h. Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.
   E. Inlets.
      a. Precast reinforced concrete--ASTM C478 and ASTM C443.
      b. Size: Inlets shall have a twenty-four inch inside diameter and a maximum depth of four feet.
      c. Adjustment: No more than two precast concrete adjusting rings with six inch maximum height adjustment shall be allowed.
      d. Only one pipe connection is allowed, and it shall be precast with resilient rubber watertight pipe to manhole sleeves or seals. External flexible watertight sleeves shall also extend from the manhole cone to the manhole frame.
      e. Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.
   F. Castings.
      Manhole frame and cover--Use area inlet as listed below unless specified as a "closed lid" in this plan set. Closed lid frame and covers shall be Neenah No. R-1772-C embossed "STORM SEWER".
      a. Manhole steps--Neenah No. R-1981-I.
      b. Six inch curb and gutter inlet--Neenah No. R-3502-B.
      c. Three inch curb and gutter inlet--Neenah No. R-3501-P.
      d. Yard inlet--Neenah No. R-2579.
      e. Parking lot inlet--Neenah No. R-2077-C.
   G. Crushed Granular Bedding (Exhibit No. 202). Crushed gravel or crushed stone course aggregate--ASTM C33, Size No. 67.
3. All end sections 24" and greater shall come equipped with trash grate and toe block in compliance with Illinois Department of Transportation
4. Inspect pipe for defects and cracks before being lowered into the trench, piece by piece. Remove and replace defective, damaged or unsound pipe or pipe that has had its grade disturbed after laying. Protect open ends with a stopper to prevent earth or other material from entering the pipe during construction. Remove dirt, excess water, and other foreign materials from the interior of the pipe during the pipe laying progress.
5. Install pipe in accordance with manufacturer's written recommendations.
6. Commence installation at the lowest point for each segment of the route. Lay RCP with the groove or bell end up-stream.
7. Lay pipe to the required line and slope gradients with the necessary fittings, bends, manhole, risers and other appurtenances placed at the required location as noted on Drawings.
8. All storm sewers under and within two feet of any existing or proposed pavement shall be backfilled with granular backfill material IDOT gradation FA-6 or approved equal. (Grade 8 or Grade 9).
9. Compact backfill to 98 percent of maximum density in accordance with ASTM D698, (or 95 percent of maximum density, in accordance with ASTM D1557) obtained at optimum moisture as determined by AASHTO T180.
10. Do not backfill trenches until required tests are performed and utility systems comply with and are accepted by applicable governing authorities.
11. Backfill trenches to contours and elevations shown on the drawings.

WATER UTILITY NOTES

1. Water mains and services shall be constructed in accordance with the following:
   A. "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), seventh edition dated 2014, and all revisions and supplements thereto.
   B. All applicable state and local plumbing codes.
   C. Additional details and requirements provided in the contract documents, including this plan set.
   D. City of Rockford watermain codes.
   Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.
2. Contact all public and private utility companies 48 hours prior to any excavation. Cost of replacement or repair of existing utilities damaged as a result of the contractor's operation shall be the contractor's responsibility.
3. All water main and service pipe greater than 2" in diameter shall be Ductile Iron Pipe in accordance with C151, Class 52 in accordance with AWWA standard C150 and C104. Fittings shall comply with AWWA C110. Joints--mechanical and push-on shall comply with AWWA C111.
4. The minimum cover for all water main and water service pipe is 6' from finished grade to top of pipe.
5. All water mains under and within two feet of any existing or proposed street pavement or curb shall be backfilled with IDOT approved granular backfill material. Trench and backfill shall be placed in lifts not to exceed 12" compacted to 95% of maximum Standard proctor density.
6. All valves shall be butterfly Mueller model B3211-20 or gate Mueller model A-2370-20 valves with mechanical joints, resilient seat wedge type, with cast iron body, bronze mounted, bronze non-rising stem, double disc pattern, designed for 300 pounds working pressure meeting AWWA Standard C509. All valves shall open left.
7. Water main separation from storm and sanitary sewer shall conform to section 41-2.01 of the Standard Specifications.
8. No object may be constructed, maintained or installed within 48 inches of a fire hydrant. No trees, bushes, walls, or other obstacles which may hide or impede the use of a fire hydrant will not be permitted.
9. Hydrants shall be painted in conformity to AWWA Std. C502. The contractor shall verify color of paint with the City of Rockford prior to procurement.
10. All fire hydrants shall comply with AWWA Standard C502 and the City of Rockford requirements. The contractor shall contact the City of Rockford for specific requirements. All public hydrants shall have a "breakaway" design and shall be placed so that the center of the pumper nozzle is 18 to 24 inches above the ground line. A hole of 1/2 cubic yard volume shall be dug at each hydrant and filled with washed gravel to act as a drain for two (2) bronze lined outlets. Hydrants shall be Mueller Centurion model A-423 unless a different model is approved in advance by the City of Rockford.
11. Fire hydrants shall be placed at least 3 feet off the edge of pavement.
12. Connections to Existing Mains. All connections to the City water distribution system shall be made under full water service pressure unless otherwise approved by the City Engineer at locations approved by the City Engineer.
13. Pressure Test.
   A. As part of the construction, the water mains shall be pressure tested in accordance with Section 41-2.12 of the Standard Specifications.
   B. All newly laid pipe shall be subjected to a hydrostatic pressure of 150 pounds per square inch. Duration of each pressure test shall be for a period of not less than two hours. Each valved section of pipe shall be filled with water and the specified test pressure shall be applied by means of a pump connected to the pipe.
   C. Before applying the specified test pressure, all air shall be expelled from the pipe. All leaks shall be repaired until tight. Any cracked or defective pipes, fittings, valves, or hydrants discovered in consequence of this pressure test shall be removed and replaced and the test repeated until satisfactory results are obtained.
14. All testing shall be done after the installation of service lines. Suitable means shall be provided for determining the quantity of water lost by leakage under the specified test pressure in accordance with Section 41-2.14C of the Standard Specifications.
15. Disinfection.
   A. Water from the existing distribution system or other source of supply shall be controlled so as to flow slowly into the newly laid pipeline during the application of chlorine gas. The rate of chlorine mixture flow shall be in such proportion to the rate of water entering the pipe that the chlorine dose applied to the water entering the newly laid pipe shall be at least forty to fifty ppm, or enough to meet the requirements during the retention period. This may require as much as one hundred ppm of chlorine in the water left in the line after chlorination.
   B. Valves shall be manipulated so that the strong chlorine solution in the line being treated will not flow back into the line supplying the water.
   C. Treated water shall be retained in the pipe long enough to destroy all spore-forming bacteria. This retention period shall be at least twenty-four hours. After the chlorine-treated water has been retained for the required time, the chlorine residual at the pipe extremities and at other representative points should be at least ten ppm.
   D. In the process of chlorinating newly laid pipe, all valves or other appurtenances shall be operated while the pipeline is filled with the chlorinating agent.
   E. All water mains and services shall be disinfected and tested according to the requirements of the Standards for Disinfecting Water Mains, AWWA C601, and as required by this Title. All disinfection, as required by this Title, shall be performed by an independent firm exhibiting experience in the methods and techniques of this operation, and shall be approved by the City.
16. Final Flushing and Testing.
   A. Following chlorination, all treated water shall be thoroughly flushed from the newly laid pipeline at its extremities until the replacement water, throughout its length shall, upon test, be approved as safe water by the City Engineer. This quality of water delivered by the new main should continue for a period of at least two full days as demonstrated by laboratory examination of samples taken from a tap located and installed in such a way as to prevent outside contamination. Samples should never be taken from an unsterilized hose or from a fire hydrant, because such samples seldom meet current bacteriological standards.
   B. After disinfecting and flushing, water samples shall be collected by the contractor on two successive days, with notice given, so that the collection may be witnessed by the City. Bacteriological sampling and analysis of the samples shall be performed by a laboratory approved by the Illinois Department of Public Health and the City. Should the initial treatment result in an unsatisfactory bacterial test, the procedure shall be repeated until satisfactory results are obtained. The contractor or developer shall pay for the sampling and analysis. Results of the analysis shall be transmitted by the laboratory directly to the Village Engineer. Test results shall indicate the date the sample was collected, the date the analysis was made, the exact locations at which samples were taken, the firm submitting the sample, and the project at which the samples were collected. Sufficient samples shall be collected in order to insure that the system is bacteriologically safe.
17. Record Drawings are required by the City of Rockford. The Contractor shall record measurements from property pins to the centers of the valve lids and curb boxes. Each measurement shall be parallel or perpendicular to the property line.
18. Any areas where solid rock is encountered when laying the water main, approved bedding material shall be used.

2 19. Contractor shall contact Facilities Management at (779) 348-7177 to obtain a new water meter for the facility.
20. Contractor shall maintain all vertical (18") and horizontal separation (10') required separation requirements per the "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), seventh edition dated 2014, and all revisions and supplements thereto.

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ARC DESIGN RESOURCES INC.

A GYMNASIUM ADDITION FOR:
CARLSON ELEMENTARY SCHOOL
ROCKFORD, ILLINOIS

BY REFERENCE, AIA DOCUMENT A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", CURRENT EDITION, IS MADE A PART OF THESE DOCUMENTS.
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THE ARCHITECT WILL NOT HAVE CONTROL OVER, CHARGE OF, OR RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S RIGHTS AND RESPONSIBILITIES.

REVISIONS:
1 BID AND PERMIT DOCUMENTS
2 ADDENDUM 1
3 AGENCY APPROVAL

DRAWN BY:

DATE: 07.05.17

PROJECT NUMBER
15114

SHEET NUMBER
C01

C1823

CARLSON ELEMENTARY SCHOOL

Q:\Projects\15114 carlson school\Dwg\engineering plans\C0 GENERAL NOTES.dwg Jul 12, 2017

GENERAL PAVING NOTES

1. All pavement shall be constructed in accordance with the following:
   A. Concrete pavement shall be constructed in accordance with the Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge Construction" (Standard Specifications), latest edition, including all updates and standards thereto.
   B. Standards and requirements of the City of Rockford.
   C. Additional details and requirements provided in the contract documents, including this plan set.
2. All proposed pavement areas shall be stripped of all topsoil and unsuitable material and excavated or filled to within 0.10 feet of design subgrade.
3. The subgrade of pavement areas shall be free of all unsuitable material and shall be compacted to a minimum 95 per cent of Standard proctor density.
4. The subgrade shall be proof rolled, inspected and approved by the [local agency] prior to placing the base material. Notify the engineer at least 48 hours prior to finished subgrade preparation.
5. The earthwork contractor shall be responsible for removal of spoil material from the underground contractors, preparing the roadway subgrade, proof rolled, placing topsoil to a minimum depth of 4 inches to finished grade in the parkways areas only, grading of drainage swales, and all other tasks as directed by the owner or engineer.
6. The quantities contained in these documents are approximate and estimated, and are presented as a guide to the contractor in determining the scope of work. It is the Contractor's responsibility to determine all quantities and to become familiar with the site and soil conditions.
7. The paving Contractor is responsible for the final subgrade preparation, proof rolling, the pavement base, binder, and surface, and all final clean-up and related work associated with the paving operation.
8. The proposed pavement shall be of the type and thickness as specified in the engineering drawings, and constructed in strict conformance with the previously referenced IDOT standard specifications and the City of Rockford.
9. Areas of deficient paving, including compaction, smoothness, thickness, and asphalt mixture, shall be delineated, removed, and replaced in compliance with Specifications requirements unless corrected otherwise as directed and approved by the owner.
10. Field quality control tests specified herein will be conducted by the owner's Independent Testing Laboratory (ITL) at no cost to the contractor. Any testing and inspection resulting from the requirements of necessary permits by the City of Rockford or the State of Illinois shall be at the contractor's expense. The contractor shall perform additional testing as considered necessary by the contractor for assurance of quality control. Retesting required as a result of failed initial tests shall be at the contractor's expense.
    A. Field testing, frequency, and methods may vary as determined by and between the owner,the ITL and the City of Rockford.
    B. Testing shall be performed on finished surface of each asphalt concrete course for smoothness, using 10'_0" straightedge applied parallel with, and at right angles to centerline of paved area. The following tolerances in 10 ft shall not be exceeded: Base Course Surface: 1/4-inch, Wearing Course Surface: 1/8-inch.
    C. No ponding shall occur on paved surfaces. Refer to "General Notes" in this plan set.

PAVEMENT MARKING NOTES

1. Apply two (2) coats for all pavement markings.
2. Material description: a fast drying, high hiding marking paint for concrete, brick and bituminous surface. this product has been designed for painting centerlines and edgelines of highways, city crosswalks and stop zones, parking lots, traffic aisles, etc. Do not apply to in temperatures below 50 F.
3. Paint properties:
   A. Pigment 4991 yellow -- lead-free organic yellow min. 4.8% titanium dioxide min. 2.8 % calcium carbonate max. 93%
   B. the percentage pigment by weight of the finished product shall not be less than 50% no more than 54%. (ASTM d3723)
   C. Vehicle: the non-volatile portion of the vehicle shall be composed of a 100% acrylic polymer and shall not be less than 44% by weight.
   D. ASTM d2697)
   E. Organic volatiles: the finished paint shall contain less than 150 grams of volatile organic matter per liter of total paint. (ASTM d3960)
   F. Total solids: the finished paint shall not be less than 73% total non-volatile by weight. (ASTM d2369)
   G. Grind: the paint shall have a grind of not less than 3 on a hegman grind gauge. (ASTM d210)
   H. Viscosity: the consistency of the paint shall not be less than 83 nor more than 98 kreb units at 77° F. (ASTM d562)
   I. Freeze / Thaw stability: the paint shall show no coagulation or change in consistency greater than 10 kreb units after 3 cycles. (ASTM d2243)
   J. Heat stability: the paint shall show no coagulation, discoloration, or change in consistency greater than 10 kreb units when tested in accordance within federal specification tt-p-1952b, section 4.5.8.
   K. Storage stability: after 30 days storage in a three quarters filled, closed container, the paint shall show no caking, skinning, livering, curdling, biological growth, or hard settling. the viscosity shall not change more than 5 kreb units from the original sample.
   L. No pick-up time: the no pick-up time shall be less than 10 minutes. the test shall follow the requirements of ASTM d711 with a wet film thickness of 0.38 mm (15 mils).
   M. Dry through time: the paint, when applied to a non-absorbent substrate at a wet film thickness of 0.38 mm (15 mils) and placed in a humidity chamber controlled at 90 +/-5% r.h. and 72.5° +/- 1.4° F shall have a dry through time not greater than 15 minutes when tested in accordance with ASTM d1640.

ADDITIONAL CONCRETE PAVING NOTES

1. Materials shall comply with the following standards of quality:
   A. Portland Cement: ASTM C150 Type I, Normal ASTM C150 Type II, High-Early-Strength.
   B. Fine Aggregate: ASTM C33, clean sand graded between #100 and #4 sieve limits.
   C. Coarse Aggregate: ASTM C33, uncoated crushed stone or washed gravel.
   D. Water: Potable and fit to drink.
   E. Water-Reducing Admixture: ASTM C494 Type A (normal) or Type D (retarder).
   F. Air Entraining Agent: ASTM C260.
   G. Premoulded Filler Strips: ASTM D994.
   H. Curing Compound: ASTM C309, Type 2 (white, pigmented).
   I. Reinforcement: ASTM A615, Grade 40.
2. Physical characteristics shall comply with the following:
   A. Strength: 4,000 PSI compressive strength in 28 days.
   B. Mix: Minimum 6 bag mix.
   C. Slump: Maximum 4".
   D. Water to Cement Ratio: Shall not exceed 0.45 by weight.
   E. Air Entrainment: 5%-8%
3. All curb and gutter and sidewalk shall be broom finished. All sidewalk shall have picture frame finish.
4. Curing and protection of all concrete shall be in strict conformance with the provisions of Section 1020.13 of the Standard Specifications.

2

4a. Omitted

5. The curb and gutter shall have 1" thick premolded fiber expansion joints with 3/4" - diameter by 18-inches long plain round steel dowel bars at 100-foot intervals, at all PC's and PT's, and at all curb returns. Construction joints shall be constructed at 20-foot intervals. The cost of these joints shall be incidental to the curb and gutter. Curb joints and ties shall be constructed in accordance with IDOT standard 606001.
6. All sidewalk, including curb ramps and steps shall be compliant with Local, State, and Federal requirements for accessibility.
7. Depressed curb shall be provided for curb ramps and at driveway locations in accordance with IDOT standard 606001.
8. Curb ramps shall be constructed in accordance with the IDOT standards. See corresponding standard(s) based on layout and application.
9. Sidewalk shall be a minimum 6" thick through all driveway crossings.
10. Concrete Pavement joints shall comply with the following:
    F. Construct expansion, weakened-plane control (contraction), and construction joints straight with face perpendicular to concrete surface. Construct transverse joints perpendicular to centerline, unless otherwise detailed.
       a. Provide joints at spacing of 15'-0" on centers, maximum each way. Panels shall be kept as square as possible with the length to width ratio not exceeding 125% unless otherwise noted. construct control joints for depth equal to at least 1/4 of the concrete thickness, as follows:
       b. Form tooled joints in fresh concrete by grooving top with recommended tool and finishing edge with jointer.
       c. Form sawed joints using powered saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut joints into hardened concrete as soon as surface will not be torn, abraded, or otherwise damaged by cutting action. Contractor shall sawcut tank farm and island / canopy area to mid-depth within 24 hours of pour.
       d. Sidewalk contraction joint spacing shall not exceed corresponding width of sidewalk. 12' wide sidewalks shall have a longitudinal contraction joint along the center of the sidewalk and transverse contraction joints shall be spaced at 6' max.
       e. A diamond edge saw bland shall be used for all required contraction and longitudinal pavement joints.
       f. All sawcuts required shall be incidental to items for which direct payment is made.
    B. Construction joints: Place construction joints at end of placements and at locations where placement operations are stopped for period of more than 1/2 hour, except where such placements terminate at expansion joints. construct joints in accordance with idot specifications.
    C. Transverse expansion joints: Locate expansion joints at maximum of 180'-0" on centers, maximum each way unless otherwise shown on the construction drawings. provide premolded joint filler for expansion joints abutting concrete curbs, catch basins, manholes, inlets, structures, sidewalks, and other fixed objects.
    D. Butt joints: For joints against existing pavement, place 16" long dowels eight inches into holes drilled into center of existing slab. epoxy dowels into holes with approved epoxy compound. place dowels prior to concrete placement for new concrete. dowel spacing to be 24" on center unless otherwise shown on construction drawings. saw joint and fill with joint sealer.
11. Joint fillers: Extend joint fillers full-width and depth of joint, and not less than 1/2-inch or more than 1-inch below finished surface where joint sealer is indicated. furnish joint fillers in 1-piece lengths for full width being placed, wherever possible. Where more than 1 length is required, lace or clip joint filler sections together.
12. Joint sealants: All pavement joints shall be sealed with white or gray approved exterior pavement joint sealants and shall be installed in accordance with manufacturer's recommendations.

ADDITIONAL ASPHALT PAVING NOTES

1. Weather Limitations:
   A. Apply prime and tack coats when ambient or base surface temperature is above 40 F, and when temperature has been above 35 F for 12 hours immediately prior to application. Do not apply when base is wet, contains excess moisture, during rain, or when frozen.
   B. Construct asphaltic concrete paving when ambient temperature is above 40 F.
2. Materials shall comply with the following standards of quality:
   A. Asphalt Cement: Comply with AASHTO M 226; Table 2 AC_10, AC_20, or AC_40, viscosity grade, depending on local mean annual air temperature in accordance with the following chart: Mean annual air temperature 45 F or lowerAC_10 85/100 pen. Mean annual air temperature between 45 F and 75 F AC_20 60/70 pen. Mean annual air temperature AC_40 75 F or higher
   B. Prime Coat: Medium curing cut_back asphalt or asphalt penetrating prime coat consisting of either MC_30 or SS_1h.
   C. Tack Coat: Emulsified asphalt; AASHTO M 140 or AASHTO M 208, SS_1h, CSS_1, or CSS_1h, diluted with 1 part water to 1 part emulsified asphalt.
   D. Mineral Filler: Rock or slag dust, hydraulic cement, or other inert material complying with AASHTO M 17, if recommended by state highway department specifications.
   E. Asphalt_Aggregate Mixture: Unless otherwise noted on the Drawings, design mix shall have minimum stability based on 75_blow Marshall complying with AASHTO T 245 of 1000 pounds with flow between 0.08 and 0.16 inches. The design mix shall be within sieve analysis and bitumen ranges specified below unless approved otherwise by the engineer prior to placement.
2. Mix design shall comply with the following:
   A. Base Course: Illinois Department of Transportation (IDOT) approved mix for Hot-Mix Asphalt Surface Course, Mix "C", N50.
   B. Surface (Wearing) Course: Illinois Department of Transportation (IDOT) approved mix for Hot-Mix Asphalt Binder Course, IL-12.5, N50.
3. Remove loose material from compacted base material surface immediately before applying prime coat.
4. Establish and maintain required lines and elevations.
5. Cover the surfaces of curbs, gutters, manholes and other structures on which the asphaltic concrete mixture will be placed, with a thin, uniform coat of liquid asphalt. Where the asphaltic concrete mixture will be placed against the vertical face of an existing pavement, clean the vertical face to remove foreign substances and apply a coating of liquid asphalt at a rate of approximately 0.25 gallons per square yard.
6. Prime Coat:
   A. Apply to base material surfaces at least 24 hours in advance.
   B. Apply at minimum rate of 0.25 gal per sq. yd over compacted base material. Apply to penetrate and seal, but not flood surface.
   C. Take necessary precautions to protect adjacent areas from over spray.
   D. Cure and dry as long as necessary to attain penetration of compacted base and evaporation of volatile substances.
7. Tack Coat:
   A. Apply to contact surfaces of previously constructed asphaltic concrete base courses or Portland cement concrete and surfaces abutting or projecting into asphaltic concrete or into asphaltic concrete pavement.
   B. Apply tack coat to asphaltic concrete base course or sand asphalt base course. Apply emulsified asphalt tack coat between each lift or layer of full depth asphaltic concrete and sand asphalt bases and on surface of bases where asphaltic concrete paving will be constructed.
   C. Apply at minimum rate of 0.05 gal per sq. yd of surface.
   D. Allow drying until at proper condition to receive paving.
8. Place asphaltic concrete mixture on completed compacted subgrade surface, spread, and strike off. Spread mixture at following minimum ambient temperatures:
   E. Between 40 and 50 F: Mixture temperature: 285 F
   F. Between 50 and 60 F: Mixture temperature: 280 F
   G. Higher than 60 F: Mixture temperature: 275 F
      a. Whenever possible, spread pavement by finishing machine; however, inaccessible or irregular areas may be placed by hand methods. Spread hot mixture uniformly to required depth with hot shovels and rakes. After spreading, carefully smooth hot mixture to remove segregated coarse aggregate and rake marks. Rakes and lutes used for hand spreading shall be type designed for use on asphalt mixtures. Do not dump loads faster that they can be properly spread. Workers shall not stand on loose mixture while spreading.
      b. Paving Machine Placement: Apply successive lifts of asphaltic concrete in transverse directions with surface course placed parallel to flow of traffic. Place asphaltic paving in typical strips not less than 10'-0" wide. Asphaltic concrete pavement, including base and surface course, shall be placed in two or more equal lifts. Each lift shall be from 1 to 3 inches thick.
      c. Joints: Make joints between old and new pavements, or between successive days and work in manner that will provide continuous bond between adjoining work. Construction joints shall have same texture, density, and smoothness as other sections of asphaltic concrete course. Clean contact surfaces of joints and apply tack coat.
9. After being spread, mixture shall be compacted by rolling as soon as it will bear the weight of rollers without undue displacement. Number, weight, types of rollers, and sequences of rolling operations shall be such that the required density and surface are consistently attained while the mixture is in workable condition.
10. Compact mixture with hot hand tampers or vibrating plate compactors in areas inaccessible to rollers.
11. Breakdown Rolling: Perform breakdown or initial rolling immediately following rolling of joints and outside edge. Check surface after breakdown rolling and repair displaced areas by loosening and filling with hot material.
12. Second Rolling: Follow breakdown rolling as soon as possible while mixture is hot. Continue second rolling until mixture has been thoroughly compacted as follows:
13. Average Density: 96 percent of reference laboratory density according ASTM D1556, but not less than 94 percent nor greater than 100 percent.
    A. Finish Rolling: Perform finish rolling while mixture is still warm enough for removal of roller marks. Continue rolling until roller marks are eliminated and course has attained maximum density.
    B. Patching: Remove and replace paving areas mixed with foreign materials and defective areas. Cut out such areas and fill with fresh, hot asphaltic concrete. Compact by rolling to maximum surface density and smoothness.
    C. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked. Any masked or marred finish surfaces shall be repaired or smoothed.
14. Asphalt paving joints shall conform to the following requirements:
    A. Place each asphaltic paving layer as continuous as possible to keep the number of joints to a minimum. Create joints between old and new pavement, between successive days work, and where the mixture has become cold (less than 140 degrees F). Make these joints in such a manner as to create a continuous bond between the old and new pavement construction courses.
    B. Offset joint of successive courses by at least 6 inches.
       d. Transverse Joints: If placing of material is discontinued or if material in place becomes cold, make a joint running perpendicular to the direction traveled by the paver. Before placement continues, trim the edge of the previously placed pavement to a straight line perpendicular to the paver and cut back to expose an even vertical surface for the full thickness of the course. When placement continues, position the paver on the transverse joint so that sufficient hot mixture will be spread in order to create a joint after rolling that conforms to the required smoothness. If the temperature of the previously placed pavement material drops below 140 degrees F before paving is resumed, give the exposed vertical face a thin coat of liquid asphalt just before paving is continued.
       e. Longitudinal Joints: Coat longitudinal joints that are not completed before the previously laid mixture has cooled to a temperature below 140 degrees F, with liquid asphalt just before paving is continued.

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ARC DESIGN RESOURCES INC.

A GYMNASIUM ADDITION FOR:
CARLSON ELEMENTARY SCHOOL
ROCKFORD, ILLINOIS

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REVISIONS:
1 BID AND PERMIT DOCUMENTS
2 ADDENDUM 1
3 AGENCY APPROVAL

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PROJECT NUMBER
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SHEET NUMBER
C02

C1523

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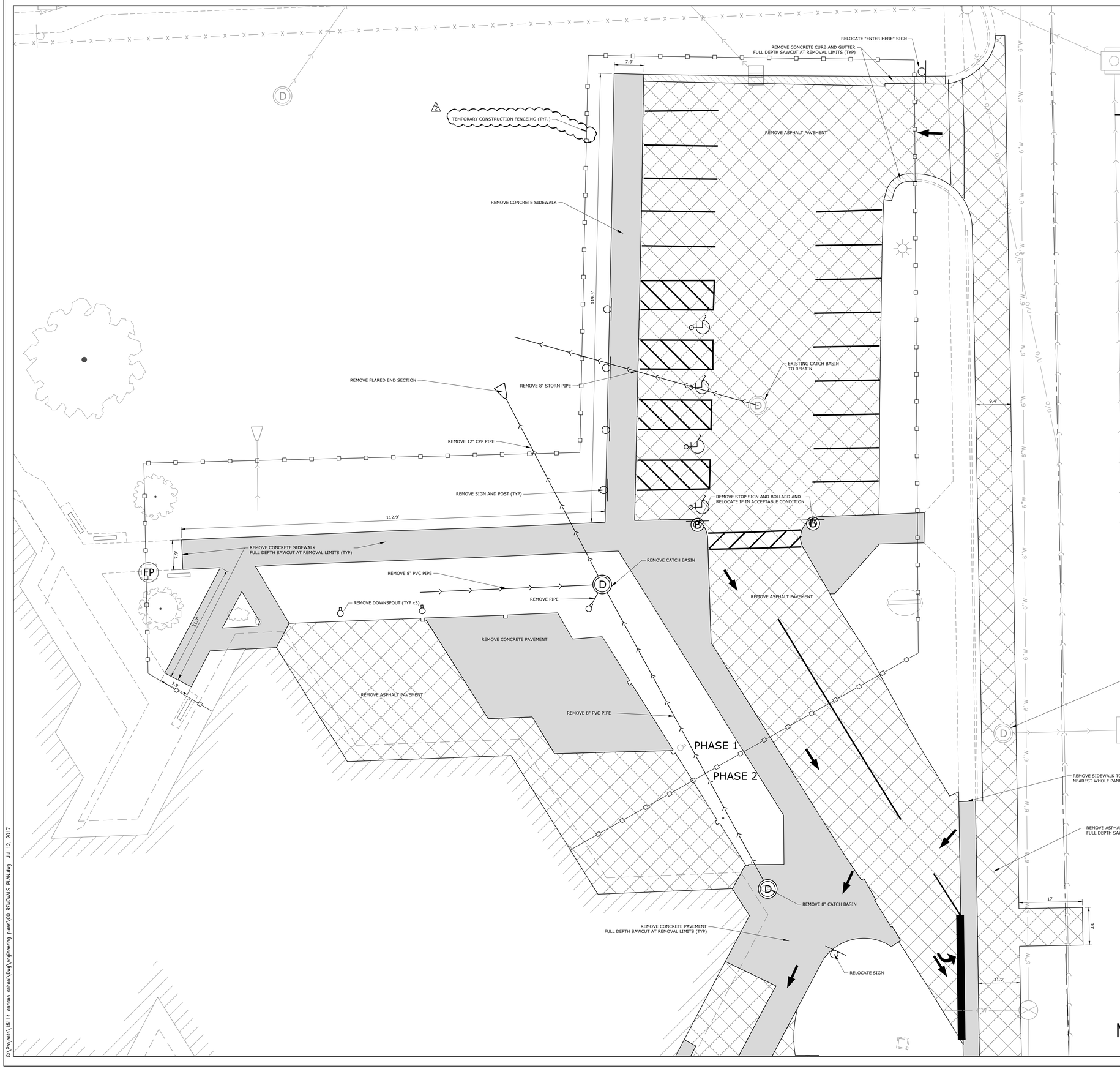

LEGEND

- PROPERTY LINE
- LOT LINE
- EXISTING CONCRETE CURB AND GUTTER TO REMAIN
- EXISTING CONCRETE CURB AND GUTTER TO BE REMOVED
- EXISTING ASPHALT PAVEMENT TO BE REMOVED
- EXISTING CONCRETE PAVEMENT TO BE REMOVED
- APPROX. LIMITS OF TREE/BRUSH REMOVAL
- EXISTING SANITARY SEWER TO REMAIN
- EXISTING SANITARY SEWER TO BE REMOVED
- EXISTING STORM SEWER TO REMAIN
- EXISTING STORM SEWER TO BE REMOVED
- EXISTING WATER TO REMAIN
- EXISTING OVERHEAD UTILITIES
- EXISTING GAS MAIN
- EXISTING GAS MAIN TO BE REMOVED
- EXISTING FENCE TO REMAIN
- EXISTING FENCE TO BE REMOVED
- EXISTING SANITARY SEWER TO REMAIN
- EXISTING SANITARY SEWER TO BE REMOVED
- EXISTING STORM SEWER TO REMAIN
- EXISTING STORM SEWER TO BE REMOVED
- EXISTING WATER TO REMAIN
- EXISTING WATER TO BE REMOVED
- EXISTING SIGN
- EXISTING SIGN TO BE REMOVED
- GAS METER
- GAS METER TO BE REMOVED
- ELECTRICAL METER
- MAIL BOX
- A/C UNIT
- BOLLARD
- SANITARY CLEAN OUT
- EXISTING LIGHT POLE TO REMAIN
- EXISTING LIGHT POLE TO BE REMOVED
- REMOVE EXISTING TREE
- (SVG) "SALVAGE"
- (TYP) TYPICAL FOR ALL SIMILAR ITEMS WITHIN THE LIMIT OF DEMOLITION ACTIVITY
- BENCHMARK

NOTE:
1. ALL PAVEMENT REMOVALS SHALL INCLUDE FULL DEPTH AGGREGATE BASE REMOVAL.
2. THE CONTRACTOR MAY REUSE THE EXISTING BASE MATERIAL IF DEEMED ACCEPTABLE BY THE OWNER'S ENGINEER AND/OR REPRESENTATIVE. THE CONTRACTOR SHALL ENSURE THAT THE MATERIAL IS KEPT FREE OF ANY ORGANIC OR BUILDING MATERIALS.

BENCHMARKS

DESCRIPTION	ELEVATION (NAVD88)
BENCHMARK 1 TOP OF ARROW BOLT ON FIRE HYDRANT AT NORTHWEST CORNER OF PEPPER DRIVE AND TOFT STREET	821.07
BENCHMARK 2 TOP OF WEST BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF PEPPER DRIVE AND PECAN STREET	838.40
BENCHMARK 3 TOP OF NORTHWEST BOLT OF FIRE HYDRANT AT NORTHWEST EDGE OF PRIMARY PARKING OFF OF PECAN STREET	837.337

NE REMOVAL PLAN

NORTH
0 10' 15' 20'

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A GYMNASIUM ADDITION FOR:
CARLSON ELEMENTARY SCHOOL
ROCKFORD, ILLINOIS

REVISIONS:
1 BID AND PERMIT DOCUMENTS
2 ADDENDUM 1
3 AGENCY APPROVAL

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PROJECT NUMBER
15114

SHEET NUMBER
C03

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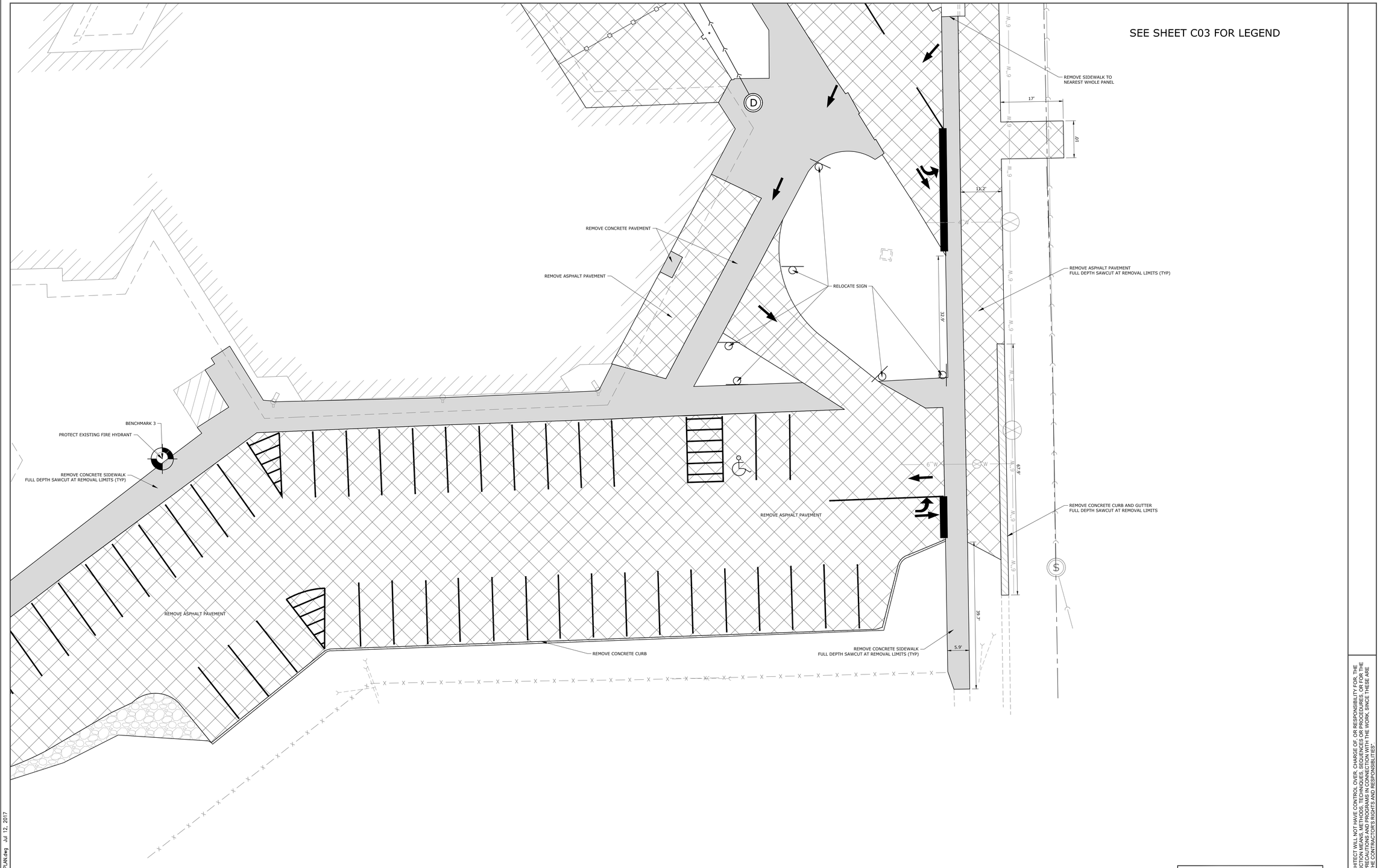
CARLSON ELEMENTARY SCHOOL C1824



BENCHMARKS

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SE REMOVAL PLAN

NORTH
0 10' 15' 20'

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SHEET NUMBER
C04

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SEE SHEET C03 FOR LEGEND

BENCHMARKS	
DESCRIPTION	ELEVATION (NAVD88)
BENCHMARK 1 TOP OF ARROW BOLT ON FIRE HYDRANT AT NORTHWEST CORNER OF PEPPER DRIVE AND TOFT STREET	821.07
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SW REMOVAL PLAN

NORTH
0 10' 15' 20'

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3 AGENCY APPROVAL

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SHEET NUMBER
C05

C1824

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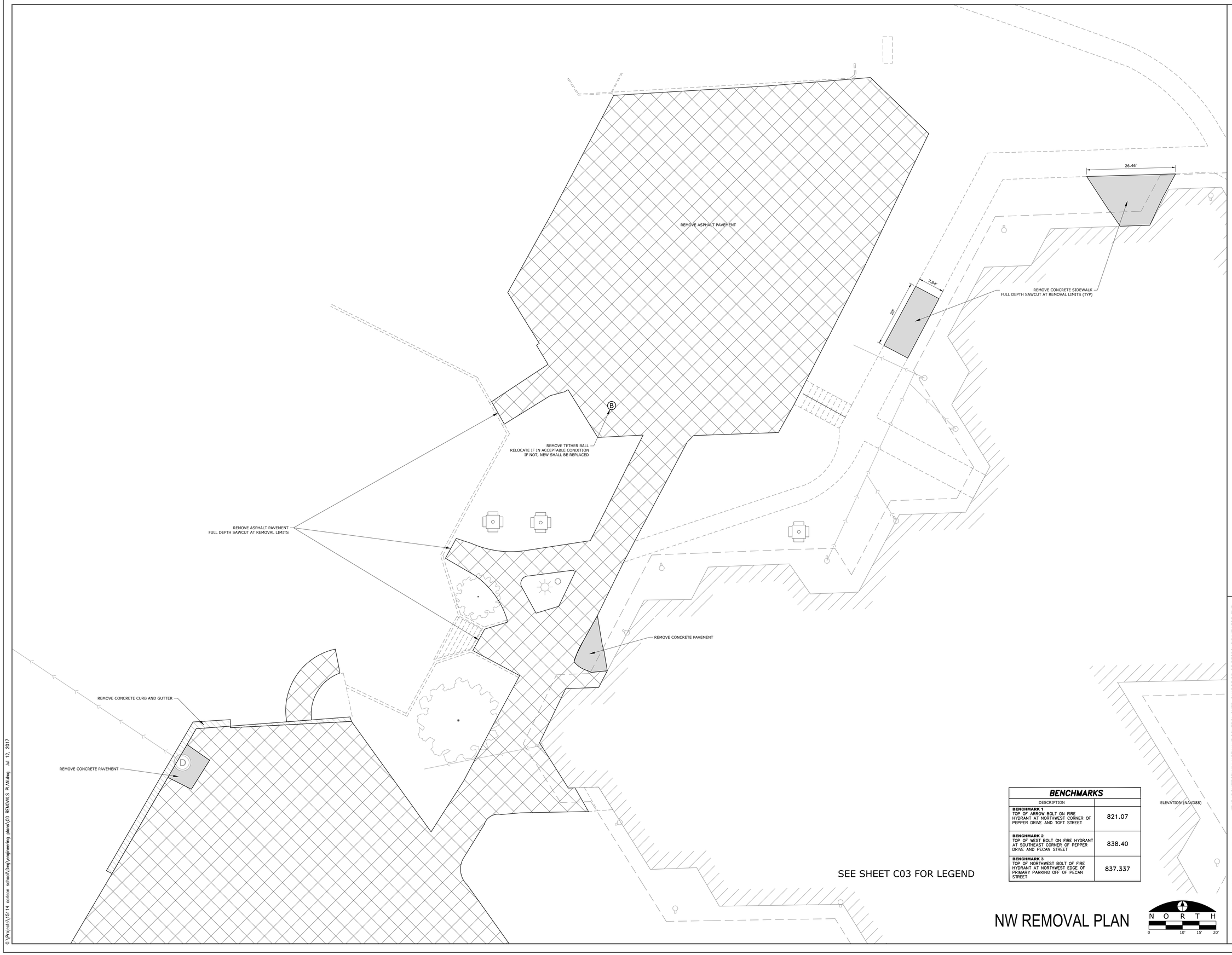

BENCHMARKS	
DESCRIPTION	
BENCHMARK 1 TOP OF ARROW BOLT ON FIRE HYDRANT AT NORTHWEST CORNER OF PEPPER DRIVE AND TOFT STREET	821.07
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SEE SHEET C03 FOR LEGEND

NW REMOVAL PLAN

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SHEET NUMBER
C06

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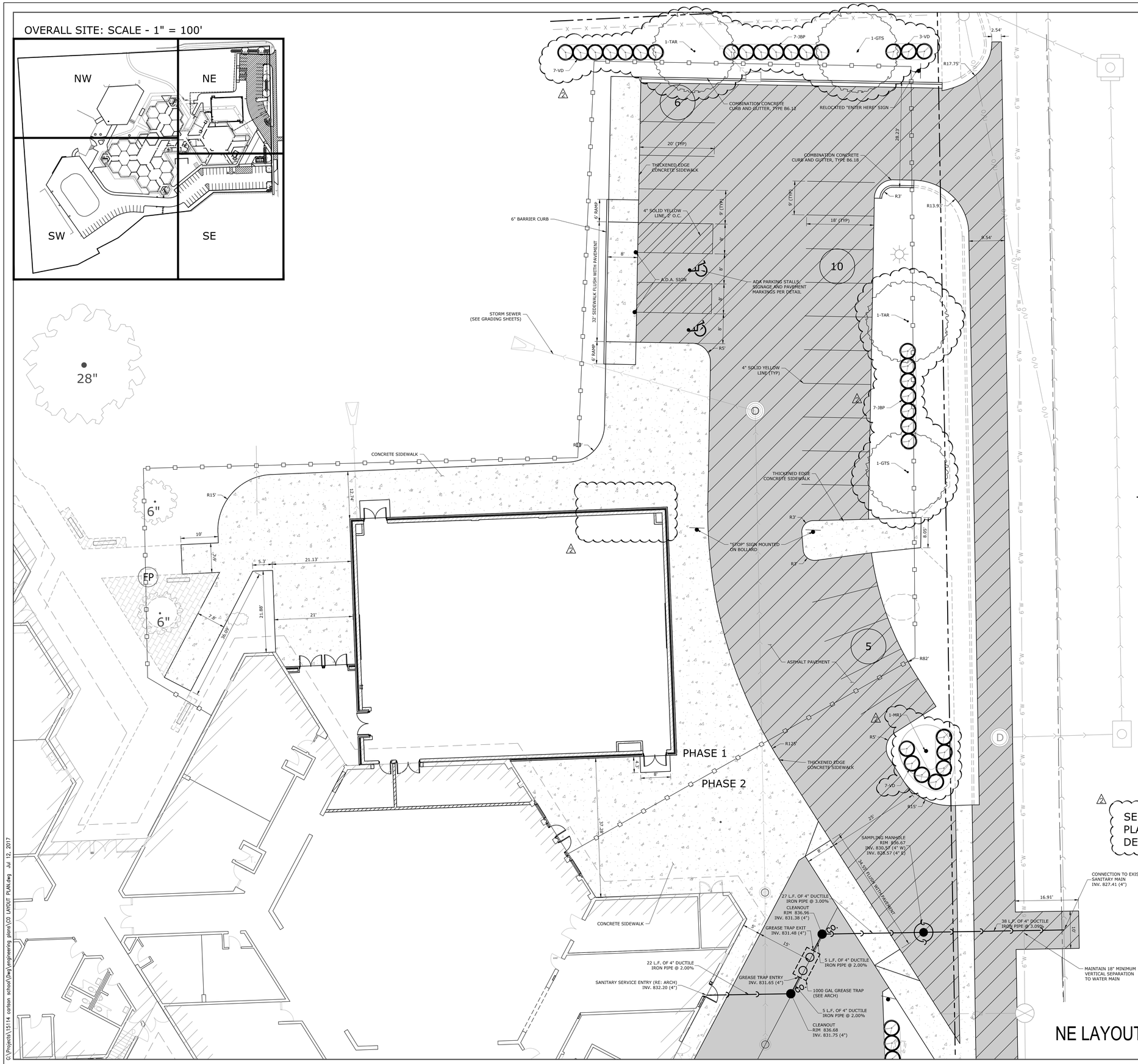
OVERALL SITE: SCALE - 1" = 100'



LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED SETBACK LINE
- PROPOSED EASEMENT
- EXISTING LOT LINE
- PROPOSED FENCE
- EXISTING FENCE
- SIDEWALK PAVEMENT
- SOD TURF AREAS WITHIN PROPERTY UNLESS OTHERWISE DIRECTED BY OWNER
- REJECTING CURB AND GUTTER
- NUMBER OF PROPOSED PARKING SPACES PAINTED YELLOW STRIPES
- EXISTING UTILITY POLE
- EXISTING MAILBOX
- EXISTING LIGHT POLE
- HEAVY DUTY CONCRETE PAVEMENT, 6" AGGREGATE BASE, 6", CA-6
- CONCRETE SIDEWALK
- STANDARD DUTY ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED CONCRETE CURB
- EXISTING CONCRETE CURB AND GUTTER
- LIGHT POLE & FIXTURE
- BENCHMARK
- PROPOSED STRIPING
- EXISTING SIGNAL CONTROLLER
- PROPOSED SIGN
- EXISTING SIGN

LAYOUT NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS, CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
3. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
4. COORDINATE WORK WITHIN PECAN ROAD WITH THE CITY OF ROCKFORD.
5. ALL RADII ARE DIMENSIONED TO THE BACK OF CURB.
6. ALL CURB AND GUTTER IS INTEGRAL TO PAVEMENT UNLESS NOTED OTHERWISE. REFER TO THE DETAIL SHEETS FOR CURB DETAILS.
7. SOME FIELD ADJUSTMENTS MAY BE NECESSARY AT POINTS WHERE PROPOSED PAVEMENT, CURB AND SIDEWALKS MEET EXISTING PAVEMENT, CURB AND SIDEWALKS. REVIEW ANY REQUIRED CHANGES WITH ENGINEER PRIOR TO CONSTRUCTION OF WORK.
8. FOR REQUIRED PAVEMENT REMOVAL ADJACENT TO THE CURB AND GUTTER REMOVAL WITHIN RIGHT OF WAY, A FULL DEPTH SAWCUT SHALL BE UTILIZED AND SHALL NOT BE LESS THAN 3' IN WIDTH.
9. FOR ALL PAVEMENT PATCHING WITHIN THE RIGHT OF WAY THE BACKFILL MATERIAL USED SHALL BE CONTROLLED LOW STRENGTH MATERIAL (COMPACTED STONE) WITH A MINIMUM THICKNESS OF 10 INCHES AND SHALL MATCH UP TO THE BOTTOM OF THE PAVEMENT IF SECTION THICKNESS IS GREATER THAN MINIMUM REQUIREMENTS. THE THICKNESS OF THE HMA PAVEMENT REPLACEMENT SHALL BE A MINIMUM OF 3 INCHES AND SHALL MATCH THE EXISTING PAVEMENT SECTION IF GREATER THAN MINIMUM REQUIREMENTS. THE MIXES USED SHALL BE HMA BINDER COURSE, IL 19.0 N50, AND HMA SURFACE COURSE, MIX D N50.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION, COORDINATION AND OBTAINING APPROVAL OF A TRAFFIC MANAGEMENT PLAN IF CLOSURES OF LANES EXCEED THE THE CRITERIA ESTABLISHED IN THE BDE MANUAL.

SEE SHEET C08 FOR PLANT LIST, PLANTING NOTES AND PLANTING DETAILS.

BENCHMARKS

DESCRIPTION	ELEVATION (NAVD88)
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BENCHMARK 3 TOP OF NORTHWEST BOLT OF FIRE HYDRANT AT NORTHWEST EDGE OF PRIMARY PARKING OFF OF PECAN STREET	837.337

NE LAYOUT / UTILITY PLAN

N O R T H
0 10' 15' 20'

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15114

SHEET NUMBER
C07

CARLSON ELEMENTARY SCHOOL
C1824

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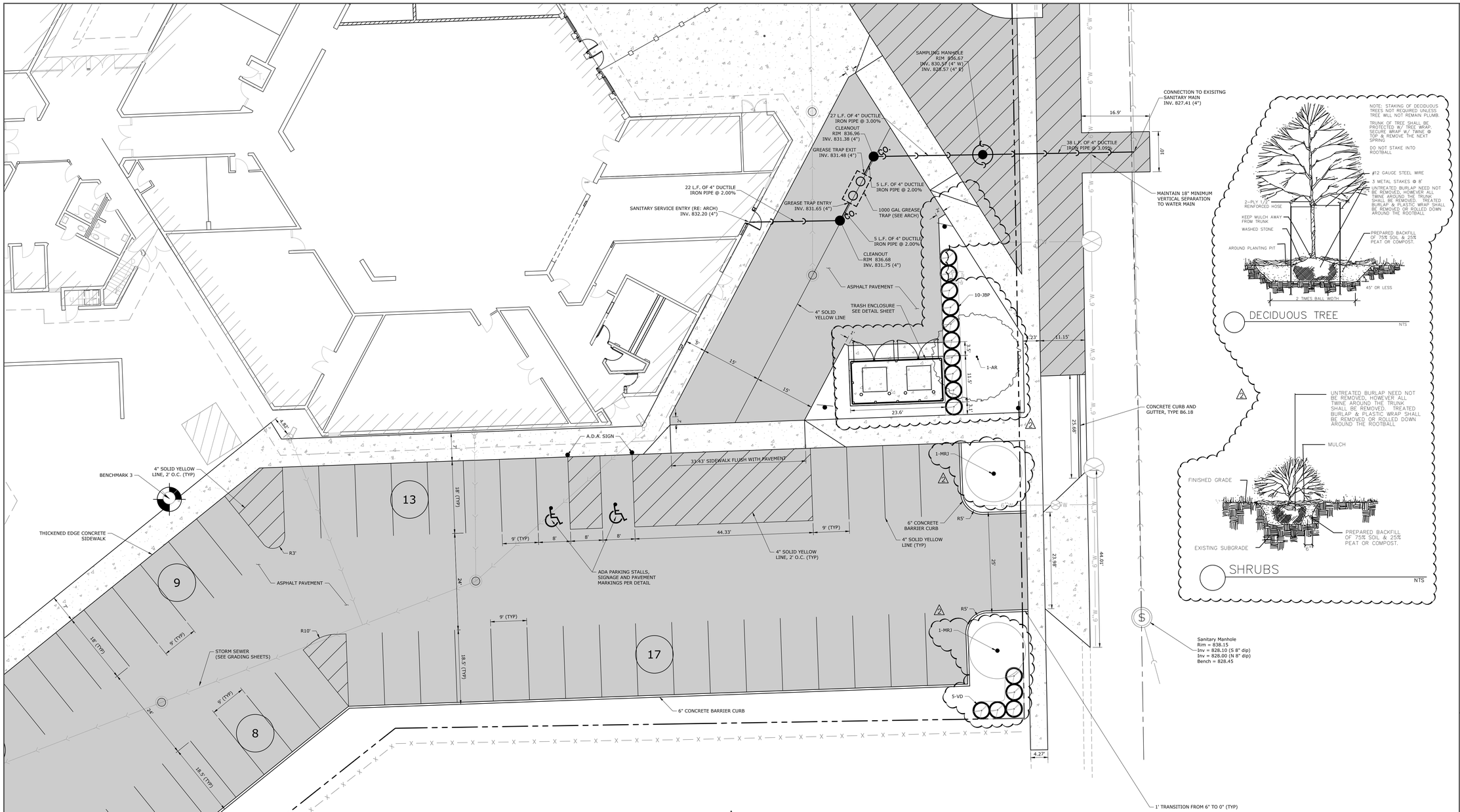

DECIDUOUS TREE

NTS

SHRUBS

NTS

Sanitary Manhole
Rim = 838.15
Inv = 828.10 (S 8" dip)
Inv = 828.00 (N 8" dip)
Bench = 828.45

PLANT LIST

KEY	QUAN	BOTANICAL NAME	COMMON NAME	SIZE/ TYPE	SPACING
		DECIDUOUS SHADE TREES			
AR	1	Acer rubrum	Red Maple	2" BB	AS SHOWN
GTS	2	Gleditsia t.i.'Skyline'	Skyline Honeylocust	2" BB	AS SHOWN
TAR	2	Tilia a. 'Redmond'	Redmond Linden	2" BB	AS SHOWN
		DECIDUOUS ORNAMENTAL TREES			
MRJ	3	Malus 'Red Jewel'	Red Jewel Crabapple	6' BB	AS SHOWN
		DECIDUOUS SHRUBS			
VD	22	Viurnum dentatum	Arrowwood Viburnum	3' BB	4'– O.C.
		EVERGREEN SHRUBS			
JBP	24	Juniperus c. 'Blue Pacific'	Blue Pacific Juniper	5 Gal.	4'– O.C.

NOTES:

1. TREE SPACING SHALL BE AS SHOWN.
2. ALL TREES SHALL RECEIVE A 4' MULCH RING FOLLOWING INSTALLATION.
3. PLANT LOCATION MAY VARY PENDING FINAL GRADING AND UTILITIES.
4. ALL ON-SITE AREAS DISTURBED BY CONSTRUCTION SHALL BE SODDED UNLESS INDICATED AS A PLANTING GET OR OTHERWISE DIRECTED BY OWNER.
5. MULCH BEDS SHALL BE HARDWOOD MULCH

SEE SHEET C07 FOR LEGEND

BENCHMARKS

DESCRIPTION	ELEVATION (NAVD88)
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SE LAYOUT / UTILITY PLAN

NORTH

0 10' 15' 20'

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REVISIONS:

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2	ADDENDUM 1
3	AGENCY APPROVAL

DRAWN BY:

DATE: 07.05.17

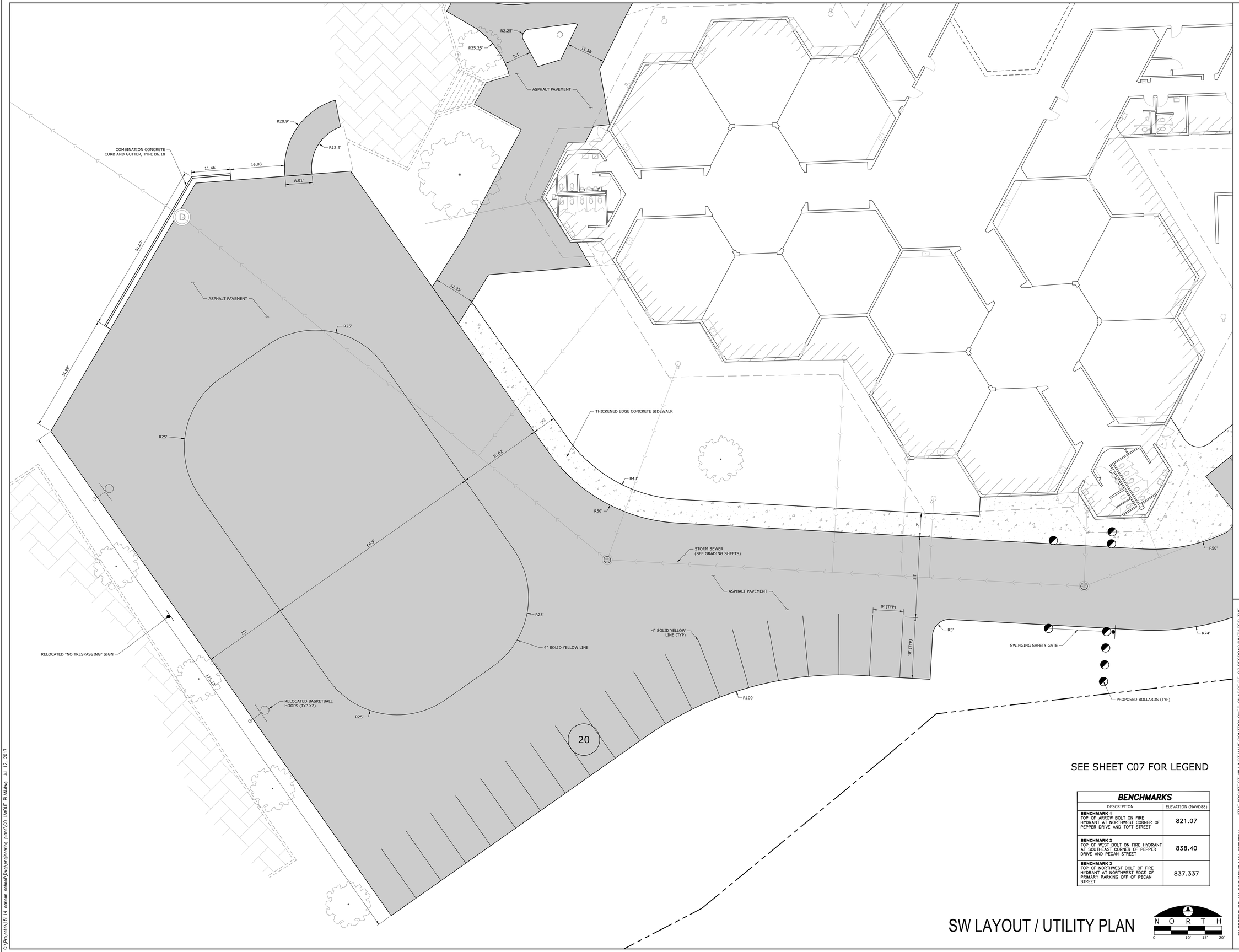
PROJECT NUMBER: 15114

SHEET NUMBER: C08

C1524

CARLSON ELEMENTARY SCHOOL

G:\Projects\15114 carlson school\Dwg\engineering plans\C0 LAYOUT PLAN.dwg Jul 12, 2017



SEE SHEET C07 FOR LEGEND

BENCHMARKS	
DESCRIPTION	ELEVATION (NAVD88)
BENCHMARK 1 TOP OF ARROW BOLT ON FIRE HYDRANT AT NORTHWEST CORNER OF PEPPER DRIVE AND TOFT STREET	821.07
BENCHMARK 2 TOP OF WEST BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF PEPPER DRIVE AND PECAN STREET	838.40
BENCHMARK 3 TOP OF NORTHWEST BOLT OF FIRE HYDRANT AT NORTHWEST EDGE OF PRIMARY PARKING OFF OF PECAN STREET	837.337

SW LAYOUT / UTILITY PLAN

NORTH
0 10' 15' 20'

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ARC DESIGN RESOURCES INC.

A GYMNASIUM ADDITION FOR:
CARLSON ELEMENTARY SCHOOL
ROCKFORD, ILLINOIS

REVISIONS:
1 BID AND PERMIT DOCUMENTS
2 AGENCY APPROVAL

DRAWN BY:
DATE: 07.05.17
PROJECT NUMBER 15114
SHEET NUMBER C09

C1824
CARLSON ELEMENTARY SCHOOL

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SEE SHEET C07 FOR LEGEND

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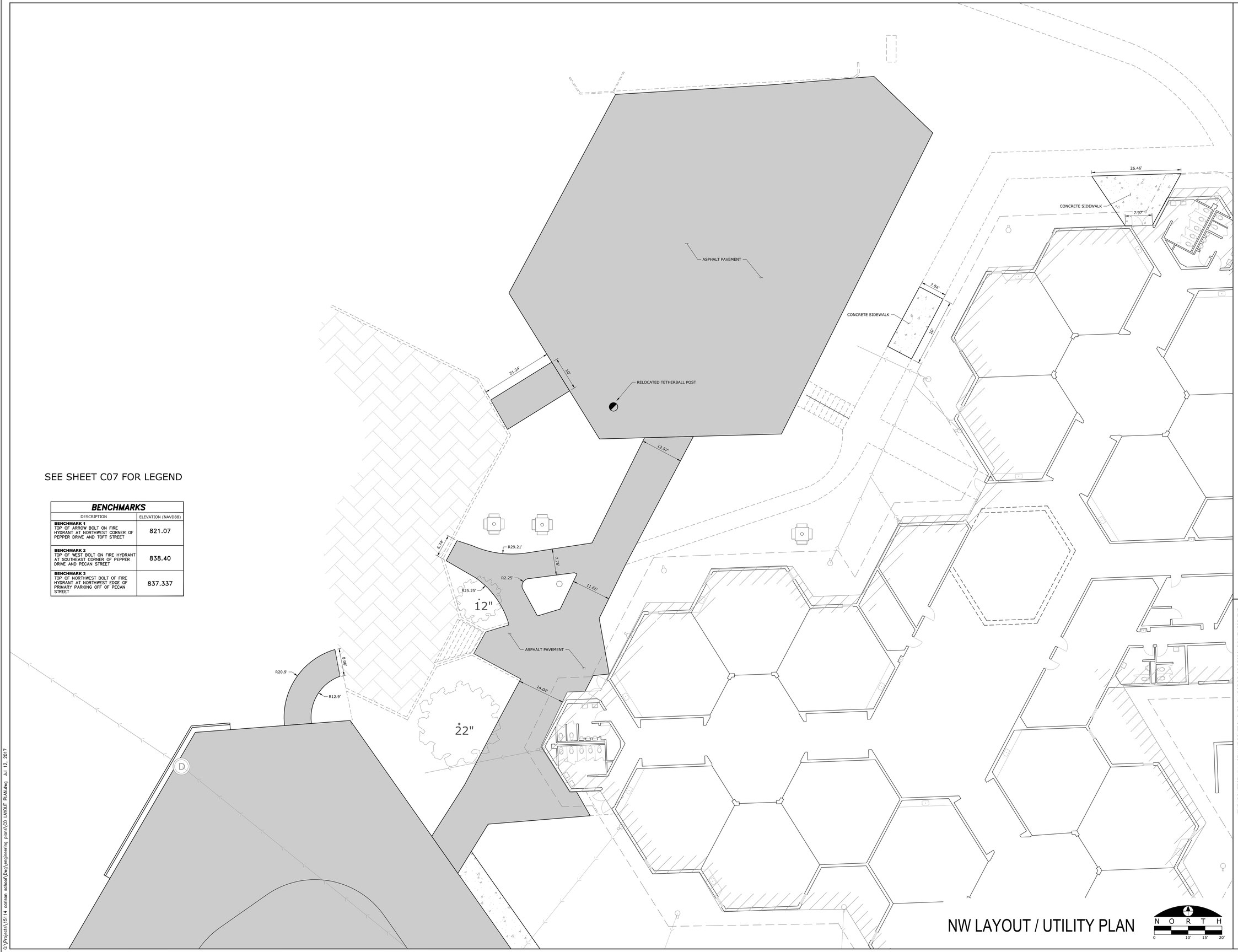

NW LAYOUT / UTILITY PLAN

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SHEET NUMBER: C10

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CARLSON ELEMENTARY SCHOOL C1824

NE GRADING / EROSION CONTROL PLAN

BENCHMARKS	
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CARLSON ELEMENTARY SCHOOL

ROCKFORD, ILLINOIS

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2 AGENCY APPROVAL

DRAWN BY:

DATE: 07.05.17

PROJECT NUMBER
15114

SHEET NUMBER
C11

CARLSON ELEMENTARY SCHOOL C1524

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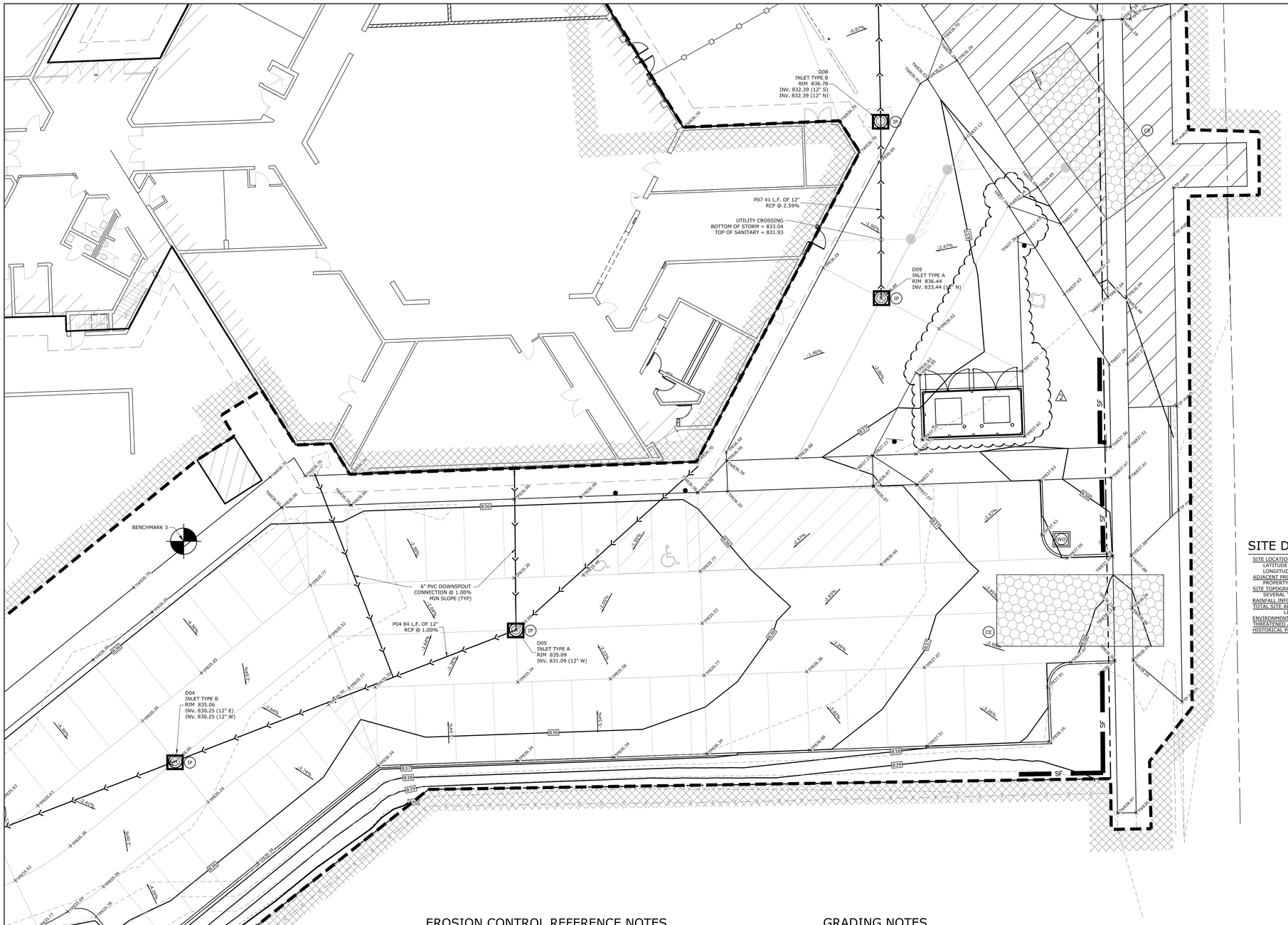

LEGEND

SEE SITE PLAN SET FOR EXISTING SYMBOLS

- TOP OF WALK ELEVATION
- TOP OF PAVEMENT ELEVATION
- FINISHED GRADE ELEVATION
- EXISTING CONCRETE CURB AND GUTTER
- CONCRETE CURB AND GUTTER
- PROPOSED CONTOUR LINE
- EXISTING CONTOUR LINE
- PROPOSED GRADE BREAK LINE
- EXISTING MANHOLE OR CATCH BASIN
- CATCH BASIN OR MANHOLE, SEE STRUCTURE TABLE
- CATCH BASIN OR MANHOLE, SEE STRUCTURE TABLE
- PROPOSED CLEANOUT
- -1.6% DIRECTION OF SHEET FLOW
- BENCHMARK
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- LIMITS OF DISTURBANCE

EROSION DETAILS

- CE TEMPORARY STONE CONSTRUCTION EXIT (1.01)
- SF TEMPORARY SILT FENCE (1.02)
- IP INLET PROTECTION PER STRUCTURE TYPE (1.03)
- RR RIP-RAP PAD. PLACE PERMANENT RIP-RAP IMMEDIATELY FOLLOWING THE REMOVAL OF TEMPORARY BMP'S
- WO CONCRETE WASHOUT
- OCP TEMPORARY CHECK DAM (SEE IUM6548W) (1.04)
- TR SLOPE BLANKET (1.05) — PERMANENT TURF REINFORCEMENT. NORTH AMERICAN GREEN P300 OR EQUIVALENT IN PERFORMANCE
- ST SEDIMENT TRAP (1.07)
- TURF AREA (SEE LAYOUT PLAN FOR TYPE)
- X.XX SEE SPECIFIC KEY NOTE ON THIS SHEET

SITE DESCRIPTION

SITE LOCATION: 4015 PEPPER DRIVE, ROCKFORD, IL 61114
LATTITUDE: 42.3064854
LONGITUDE: -89.0351836
ADJACENT PROPERTIES: THE SITE IS BORDERED BY PEPPER DRIVE TO THE NORTH, PECAN STREET TO THE EAST, RESIDENTIAL PROPERTY TO THE SOUTH AND PARK DISTRICT PROPERTY TO THE WEST.
SITE TOPOGRAPHY: THE SITE SLOPES FROM THE EAST TO THE WEST. THE EXISTING VEGETATION ON THE SITE CONSISTS SEVERAL TREES, SHRUBS, AND GRASS AREAS.
RAINFALL INFORMATION: THE TOTAL AVERAGE ANNUAL RAINFALL FOR THE PROJECT AREA IS APPROXIMATELY 36 INCHES.
TOTAL SITE AREA: LIMITS OF SITE = 7.04 AC
LIMITS OF DISTURBANCE = 3.48 AC.
ENVIRONMENTAL PERMITS - OTHER THAN NPDES, STORMWATER AND/OR EROSION AND SEDIMENT CONTROL: WETLANDS-NONE
THREATENED AND ENDANGERED SPECIES: THERE ARE NO KNOWN ISSUES RELATED TO THREATENED AND ENDANGERED SPECIES
HISTORICAL PROPERTIES: THERE ARE NO KNOWN ISSUES RELATED TO HISTORICAL PRESERVATION

EROSION CONTROL REFERENCE NOTES

(1.01) SEE CONSTRUCTION EXIT DETAIL IL-630 FROM THE ILLINOIS URBAN MANUAL (THIS DETAIL AND OTHERS CAN BE FOUND IN THE SWPPP BINDER FOR THIS SITE). THE CONSTRUCTION EXIT SHALL BE A MINIMUM OF 24' IN WIDTH AND 50' FEET IN LENGTH FROM EXISTING PAVED SURFACE. ALL CONSTRUCTION TRAFFIC MUST UTILIZE CONSTRUCTION EXITS PER DETAIL TO ACCESS THE PUBLIC ROAD. DURING CONSTRUCTION, THE CONSTRUCTION EXITS MAY BE SHIFTED AT THE CONTRACTOR'S DISCRETION TO FACILITATE GRADING OPERATION. EXIT MUST TERMINATE AT EXISTING PAVED SURFACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE RUNOFF FROM THE CONSTRUCTION EXIT IS DIRECTED BACK TOWARD THE SITE OR THAT THE RUNOFF IS CLEAR OF SEDIMENT.

(1.02) THE CONTRACTOR MAY PERMANENTLY REMOVE ANY PORTION OF THE PERIMETER SILT FENCE AFTER ESTABLISHMENT OF FINAL GRADE AND/OR FINAL STABILIZATION RENDERS THE RESPECTIVE PORTION OF THE PERIMETER SILT FENCE UPSTREAM OF A DISTURBANCE AND/OR INEFFECTIVE AS A BEST MANAGEMENT PRACTICE. ANY SUCH REMOVAL SHALL BE NOTED ON THE SWPPP SITE MAPS ALONG WITH UPSTREAM STABILIZATION AND GRADING CONDITIONS.

(1.03) NO STRUCTURE SHALL BE ALLOWED TO BE PROTECTED WITH ANY MEASURE OTHER THAN THOSE DETAILED IN THIS SWPPP SITE MAP FOR MORE THAN 48 HOURS OR IF RAIN IS IMMINENT. STRUCTURES THAT WILL NOT RECEIVE A CASTING WITHIN 48 HOURS OF INSTALLATION SHALL RECEIVE INLET PROTECTION. UPON INSTALLATION OF THE GRATE, INLET PROTECTION SHALL BE INSTALLED RESPECTIVE TO THE TYPE OF GRATE. STRUCTURES WITH CLOSED LIDS WILL NOT REQUIRE PROTECTION FOLLOWING INSTALLATION OF LID. CONTRACTOR SHALL NOTE TIME STRUCTURE INSTALLATION (AND PROTECTION INSTALLATION, INCLUDING TYPES OF PROTECTION) ARE EMPLOYED. WHENEVER PIPE INSTALLATION IS HALTED FOR MORE THAN 24 HOURS OR WHEN RAIN IS IMMINENT, THE OPEN END SHALL BE PROTECTED WITH A TEMPORARY BULK HEAD. A 3/4" SHEET OF PLYWOOD THAT EXTENDS 6" BEYOND THE OUTSIDE DIAMETER OF THE PIPE SHALL BE PLACED AGAINST THE EXPOSED PIPE END. GRAVEL SHALL BE PLACED AGAINST THE PLYWOOD IN SUFFICIENT QUANTITY SO AS TO ENSURE THE TIGHTEST POSSIBLE SEAL. THE TRENCH SHALL BE DEWATERED PRIOR TO REMOVING THE BULKHEAD.

(1.04) OCP SHALL BE PLACED TO PROTECT THE UPSTREAM END OF THE PERMANENT OUTFALL PIPE PRIOR TO PIPE INSTALLATION. SEE PLAN FOR FINAL LOCATION AND TOP OF OCP ELEVATION. FOLLOWING BASIN SIDE SLOPE STABILIZATION, THE OCP SHALL BE REPLACED WITH THE PERMANENT RIPRAP PAD SPECIFIED ON THE SITE DRAINAGE PLAN.

(1.05) PERMANENT EROSION CONTROL FABRIC NAG SC150 SHALL BE APPLIED TO ALL SLOPES 4:1 OR STEEPER THAN 4:1 PRIOR TO PERMANENT SEEDING. FOLLOW MANUFACTURER SPECIFICATIONS FOR INSTALLATION. CONTRACTOR SHALL NOTE ALL AREAS WHERE NAG SC150 HAS BEEN INSTALLED RELATIVE TO ASBUILT GRADES AND FURNISH THESE BOUNDARIES TO THE CIVIL ENGINEER UPON REQUEST. PERMANENT SEEDING SHOULD BE PLANTED AS SOON AS IT IS PRACTICAL TO ENSURE PROPER GERMINATION PRIOR TO TERMINATION OF PERMIT COVERAGE. THE CONTRACTOR SHALL PLANT PERMANENT SEEDING AS SPECIFIED ON THE LANDSCAPING PLAN AS SOON AS FINAL BASIN GRADES ARE ESTABLISHED AS SPECIFIED ON THE GRADING PLAN. SEE SITE LANDSCAPING PLAN FOR EXACT GROUND COVER TYPE AND LOCATION.

(1.06) OFFSITE UTILITY TRENCHING SPOILS MUST BE TREATED AS STOCKPILES FOR SWPPP PURPOSES. BMP'S MUST PROTECT THE SIDE OF THE SPOIL STOCKPILE THAT IS FARTHEST AWAY FROM THE TRENCH. INTERMEDIATE BMP'S SHALL BE LOCATED IN THE FIELD TO PREVENT DOWNSTREAM SEDIMENT RUNOFF. NO MORE THAN 100 LF OF TRENCH MAY REMAIN OPEN AT ANY ONE TIME. CONTRACTOR IS RESPONSIBLE FOR RESTORING GRADE AND VEGETATION THROUGHOUT THE DISTURBED AREA. THE CONTRACTOR SHALL ENSURE THAT THE OFFSITE WORK ZONES POSE NO PUBLIC SAFETY HAZARDS.

(1.07) PROVIDE TEMPORARY SEDIMENT TRAP IN LOCATION OF DETENTION UNTIL DETENTION IS CONSTRUCTED. SEE IUM CONSTRUCTION SPECIFICATION AND DEWATERING DETAIL INCLUDED IN SWPPP BINDER

GRADING NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL OR VERTICAL CONTROL BY REFERENCING SHOWN COORDINATES OR ELEVATIONS TO HORIZONTAL OR VERTICAL CONTROL POINTS PRIOR TO PROCEEDING WITH WORK.
2. ALL UNSURFACED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL AND SODDED (OR SEEDED WHERE NOTED) AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
3. ALL STORM SEWER PIPE IS TO BE REINFORCED CONCRETE CULVERT PIPE CLASS IV UNLESS OTHERWISE NOTED. WHERE HDPE OR PVC PIPE IS LISTED AS ACCEPTABLE MATERIALS, PVC SDR 35, HDPE DOUBLE WALL (ADS N-12), OR PVC SCHEDULE 40 MAY BE USED AT THE CONTRACTOR'S DISCRETION.
4. THE MAXIMUM SLOPE RATIO ON CUT/FILL SLOPES IS 3.5 HORIZONTAL TO 1 VERTICAL.
5. PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL SET ALL CLEANOUT, MANHOLE AND INLET CASTINGS, FIRE HYDRANTS AND VALVE BOXES TO FINISHED GRADE.
7. ALL PROPOSED PAVED AREAS SHALL BE STRIPPED OF ALL TOPSOIL AND UNSUITABLE MATERIAL AND EXCAVATED OR FILLED TO WITHIN 0.10 FEET OF DESIGN SUBGRADE.
8. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT THE CONCLUSION OF EACH WORKING DAY.
9. ROOF AND CANOPY DRAIN SHALL INCORPORATE BOOT PER DETAIL. 6" PVC PIPE SHALL EXTEND TO A MAIN AS SHOWN ON THE PLAN. POSITIVE DRAINAGE SHALL BE MAINTAINED TOWARD MAIN AT 0.5% MINIMUM SLOPE. 6" PVC CONNECTION TO BE MADE WITH INSERT-A-TEE OR ENGINEER APPROVED EQUIVALENT BETWEEN DISSIMILAR MATERIALS.
10. SEEDING LIMITS SHALL BE EXTENDED 48' MINIMUM BEYOND THE LIMITS OF DISTURBANCE TO ENSURE PROPER COVERAGE. (2)

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SE GRADING / EROSION CONTROL PLAN

N O R T H
0 10' 15' 20'

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REVISIONS:
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2 ADDENDUM 1
3 AGENCY APPROVAL

DRAWN BY:
DATE: 07.05.17
PROJECT NUMBER
15114
SHEET NUMBER
C12

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CARLSON ELEMENTARY SCHOOL
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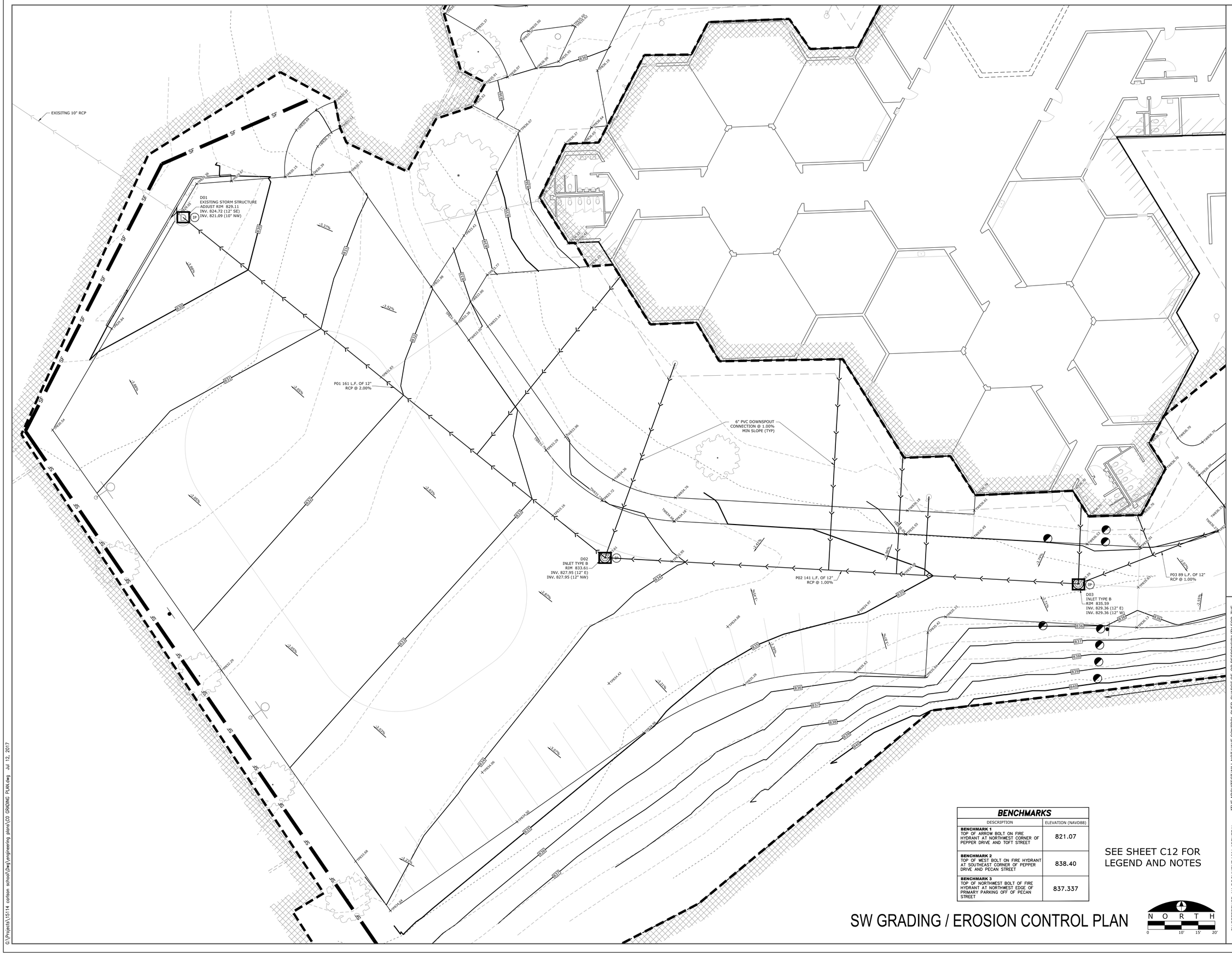

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SEE SHEET C12 FOR LEGEND AND NOTES

SW GRADING / EROSION CONTROL PLAN

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SHEET NUMBER: C13

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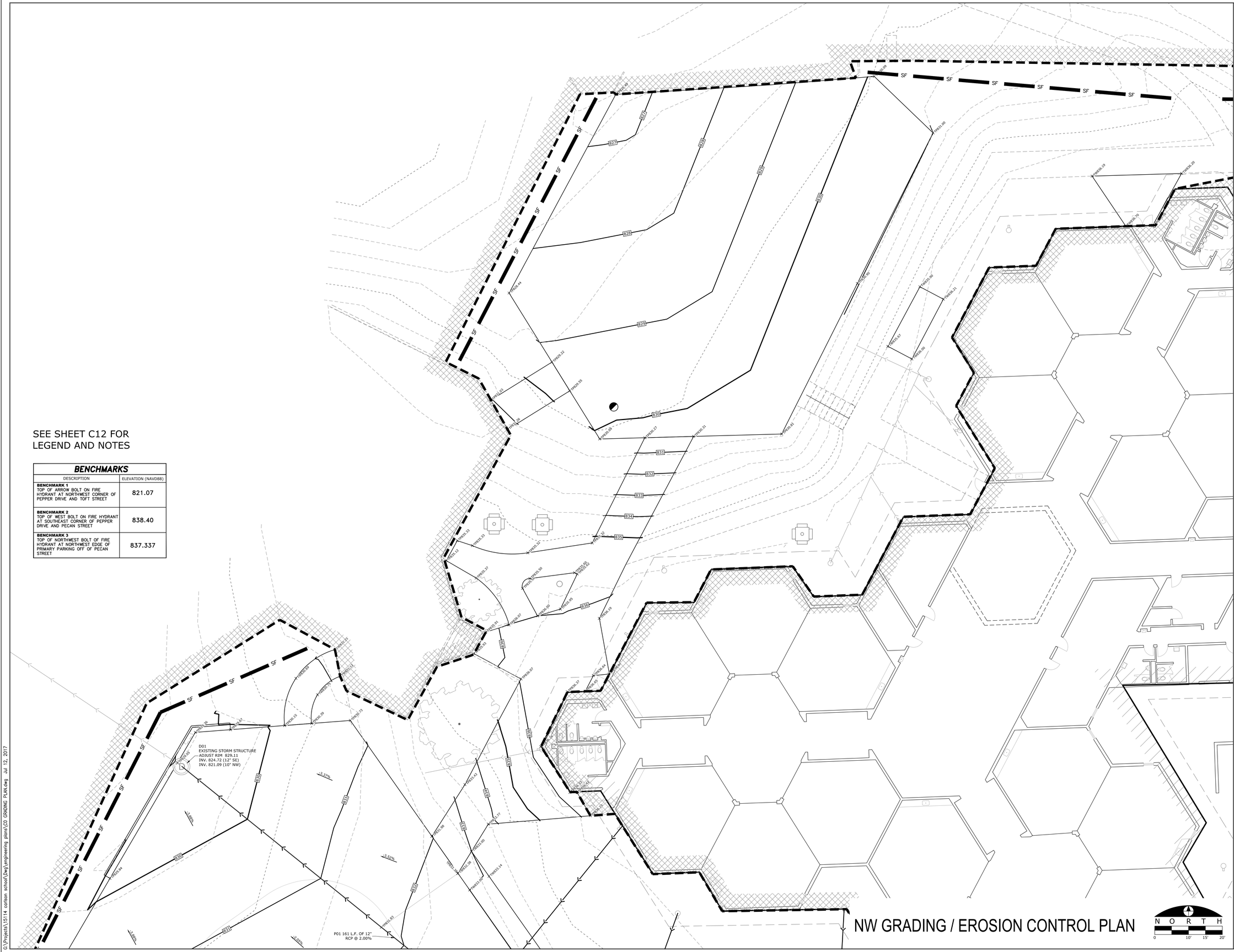

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SHEET NUMBER
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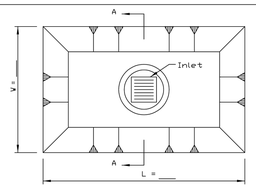
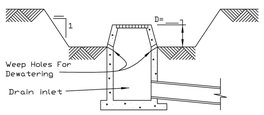
INLET PROTECTION - EXCAVATED DRAIN PLAN



PLAN VIEW



TYPICAL SECTION A-A

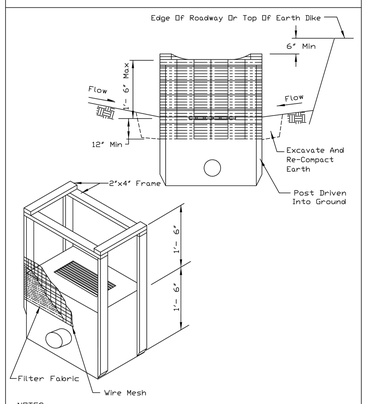
NOTES:
1. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
2. The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
3. All cut slopes shall be 2:1 or flatter.

REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____

NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-555
SHEET 1 OF 1
DATE 3-11-93

INLET PROTECTION - FABRIC DROP PLAN



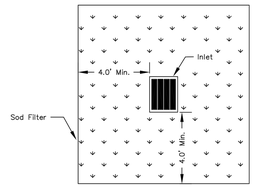
NOTES:
1. Filter fabric shall meet the requirement of material specification 592 GEOTEXTILE table 1 or 2, class I, with an EOS of at least 30 for nonwoven and 50 for woven.
2. The wire mesh shall have a maximum opening of at least 6 inches.
3. Limit drainage area to the inlet protection to 1 acre.

REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____

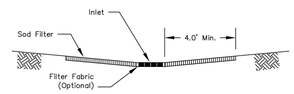
NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-560
SHEET 1 OF 1
DATE 6-29-93

INLET PROTECTION SOD FILTER PLAN



PLAN



SECTION

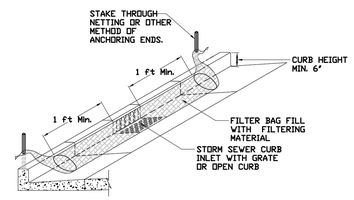
NOTES:
1. The sod should be flush with surrounding ground surface.
2. If used, filter fabric shall meet the requirements of material specification 592 GEOTEXTILE Table 1 or 2, Class 1 with AOS of at least 30 for nonwoven and 50 for woven.

REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____

NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-562
SHEET 1 OF 1
DATE 11-23-01

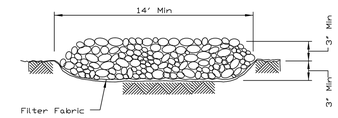
INLET PROTECTION - PAVED AREAS CURB PROTECTION



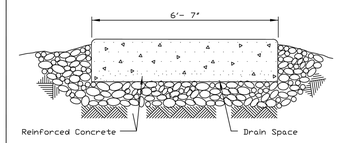
REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____

STANDARD DWG. NO. IUM-561C
SHEET 1 OF 1
DATE 01-11-11

STABILIZED CONSTRUCTION ENTRANCE PLAN



SECTION A-A



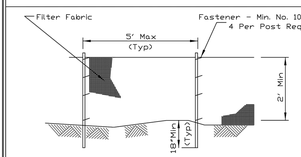
SECTION B-B

REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____

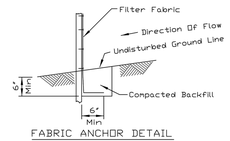
NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-630
SHEET 2 OF 2
DATE 8-18-94

SILT FENCE PLAN



ELEVATION



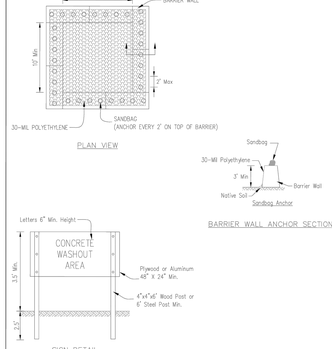
FABRIC ANCHOR DETAIL

NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____

STANDARD DWG. NO. IUM-620A
SHEET 1 OF 2
DATE 3-16-12

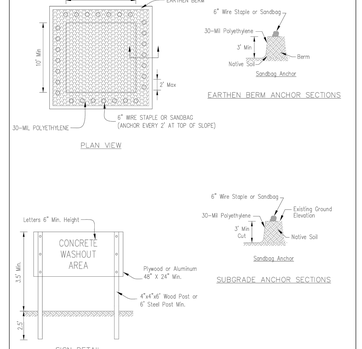
AUTOCAD2006



NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL

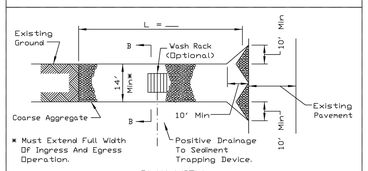
AUTOCAD2006



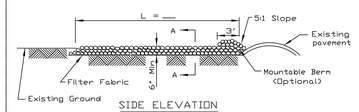
NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

TEMPORARY CONCRETE WASHOUT FACILITY - EARTHEN TYPE

STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN VIEW



SIDE ELEVATION

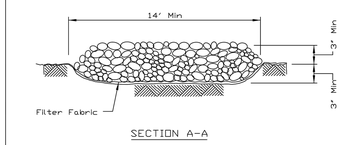
NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____

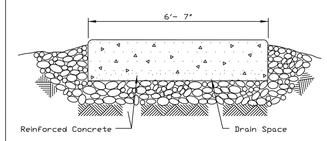
NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-630
SHEET 1 OF 2
DATE 8-18-94

STABILIZED CONSTRUCTION ENTRANCE PLAN



SECTION A-A

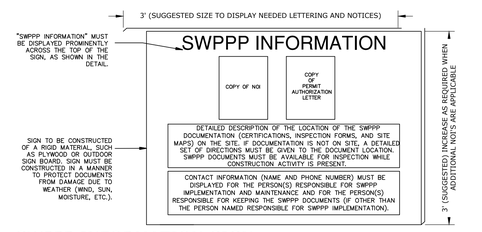


SECTION B-B

REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____

NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-630
SHEET 2 OF 2
DATE 8-18-94



SWPPP INFORMATION SIGN

DETAILS

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Architecture, Planning, & Interior Design
4615 E. State St, Suite 206
Rockford, Illinois 61108
P: 815.397.3330
F: 815.397.0243
E: Business@HagneyArchitects.com
www.HagneyArchitects.com

ARC DESIGN RESOURCES INC.

A GYMNASIUM ADDITION FOR:
CARLSON ELEMENTARY SCHOOL
ROCKFORD, ILLINOIS

THE ARCHITECT WILL NOT HAVE CONTROL OVER, CHARGE OF, OR RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S RIGHTS AND RESPONSIBILITIES.

BY REFERENCE, AIA DOCUMENT A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", CURRENT EDITION, IS MADE A PART OF THESE DOCUMENTS.

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REVISIONS:
1 BID AND PERMIT DOCUMENTS
2 AGENCY APPROVAL

DRAWN BY:

DATE: 07.05.17

PROJECT NUMBER
15114

SHEET NUMBER
C15

C1823

CARLSON ELEMENTARY SCHOOL

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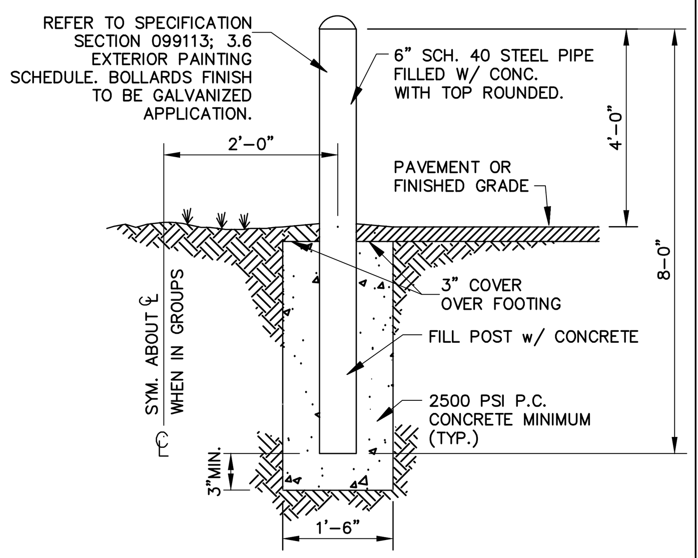
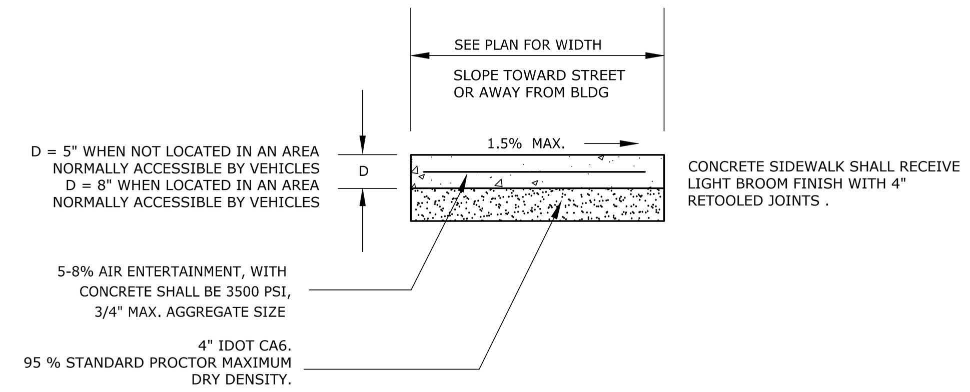
STANDARD BOLLARD DETAIL



NOT TO SCALE

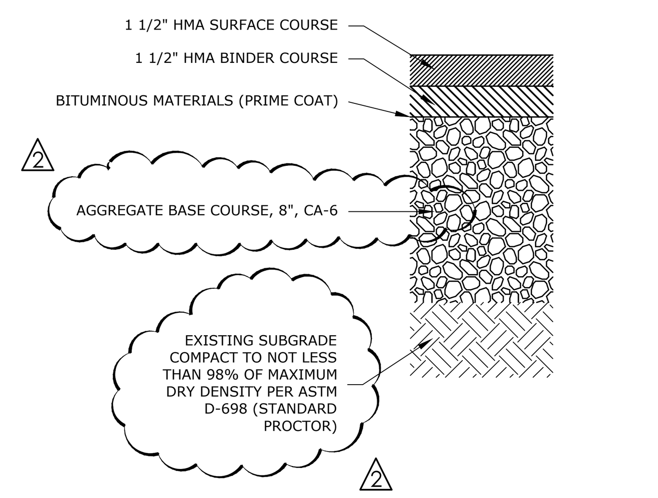
CONCRETE SIDEWALK

NOT TO SCALE



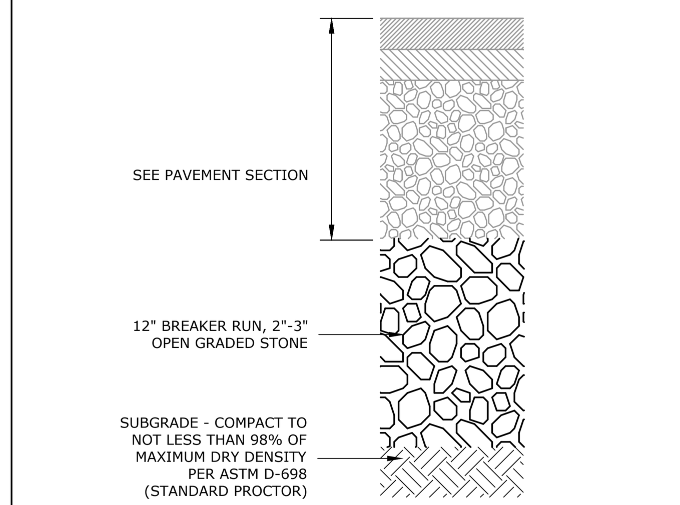
STANDARD DUTY ASPHALT PAVEMENT

NOT TO SCALE



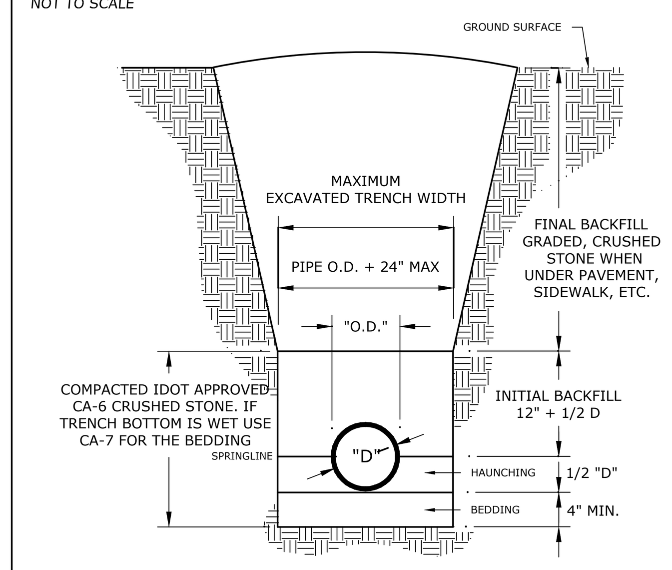
UNDERCUT

NOT TO SCALE

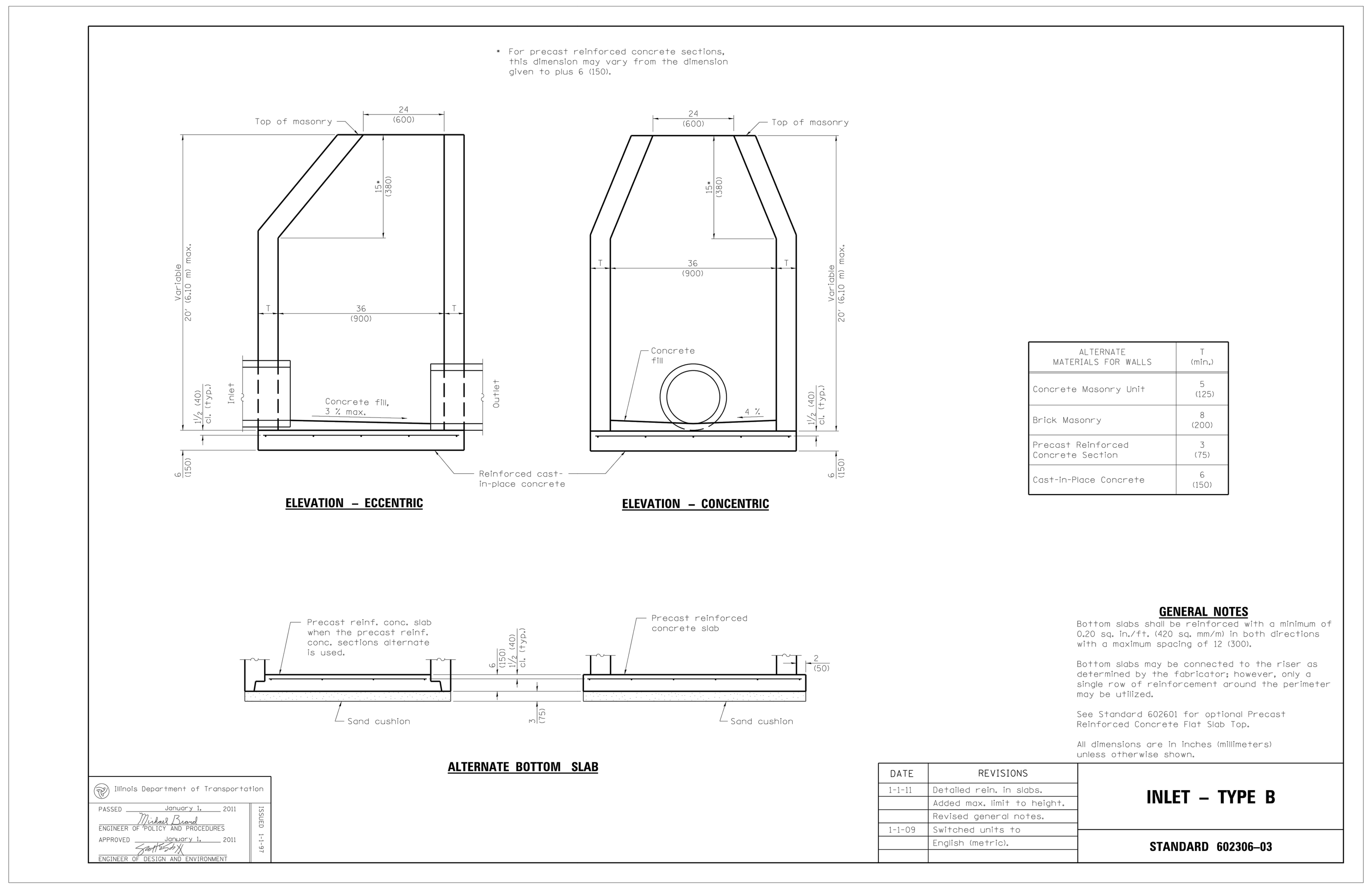


PIPE EMBEDMENT DETAIL

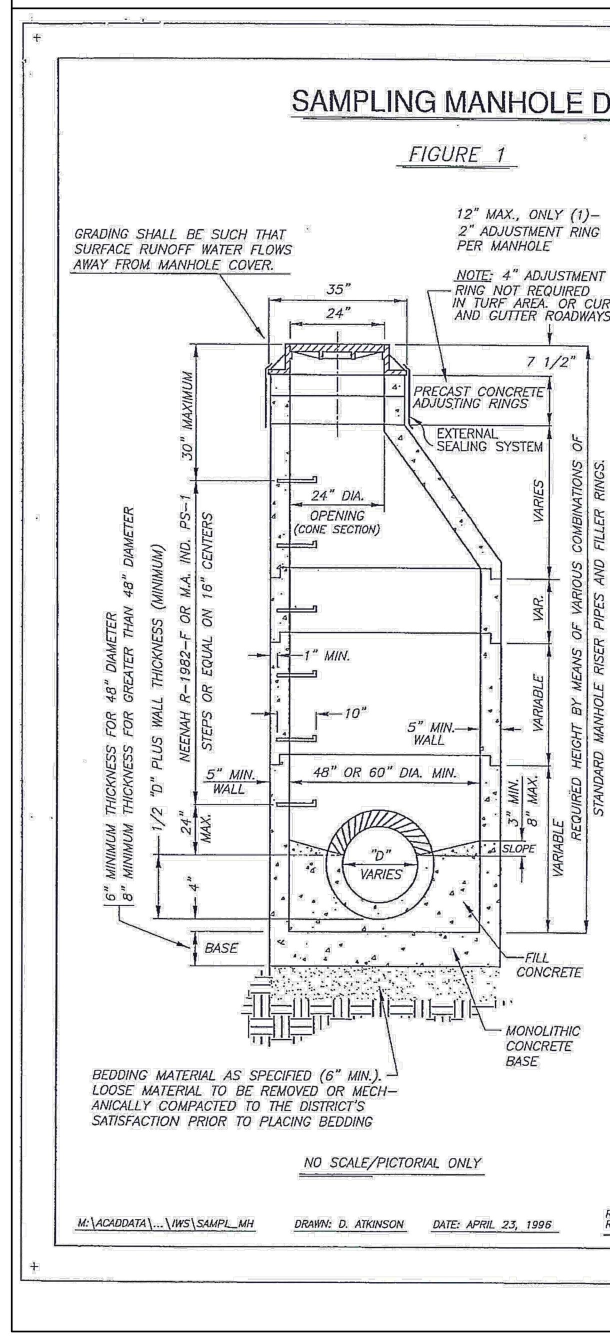
NOT TO SCALE



INLET - TYPE B DETAIL



SAMPLING MANHOLE DETAIL



NOTES:

MANHOLE STRUCTURE TO BE CONSTRUCTED OF PRE-CAST REINFORCED CONCRETE MANHOLE RISER PIPE. CONSTRUCTION SHALL CONFORM TO A.S.T.M. C478-90 OR LATEST DESIGNATION.

MANHOLE FRAME AND COVER SHALL BE NEENAH R-1670 OR EAST JORDAN E 1117 NON-ROCKING-SELF-SEALING, CONCEALED PICKHOLE LID OR UNLESS OTHERWISE NOTED.

ALL ADJUSTMENT RING JOINTS SHALL BE SEALED WITH (2) 1" BEADS OF E-Z STIK, KENT SEAL OR EQUIVALENT, INNER AND OUTER, INCLUDING CAST IRON FRAME TO CONCRETE MANHOLE STRUCTURE.

ALL BARREL JOINTS SHALL BE SEALED WITH 3 1/2" X 3/8" E-Z STIK, KENT SEAL OR EQUIVALENT ON THE SHIP LAP. IN WET AREAS, AN ADDITIONAL 1" BEAD OF OF E-Z STIK, KENT SEAL OR EQUIVALENT WILL BE REQUIRED ON THE FLAT PORTION OF THE SHIP LAP.

WHEN A CASTING REQUIRES PITCHING, A MINIMUM OF THREE SHIMS (PLASTIC OR METAL) EQUALLY SPACED TO PREVENT ROCKING SHALL BE INSTALLED BETWEEN THE CASTING AND THE MASONRY. HYDRAULIC CEMENT SHALL BE PLACED TO FILL THE SPACE BETWEEN THE CASTING AND MASONRY.

60" I.D. MANHOLE WALL THICKNESS SHALL BE 6" THICK. (MINIMUM)

PRE-CAST FLAT TOPS WILL NOT BE PERMITTED ON DISTRICT MANHOLES.

THE CONTRACTOR SHALL TAKE EXTREME CARE TO BACKFILL AND COMPACT BACKFILL IN MANHOLE EXCAVATION SUCH THAT IT MEETS R.R.W.R.D. DENSITY REQUIREMENTS.

MAXIMUM DISTANCE OF ANY ENTERING PIPE INVERT, TO OUTLET PIPE INVERT IS 24".

THE MAXIMUM DROP FROM THE FLOWLINE OF ANY PIPE IN A MANHOLE TO THE BENCH UNDER THAT PIPE SHALL BE 8". THIS INCLUDES STANDARD, DROP, AND MANHOLES CONSTRUCTED OVER EXISTING SEWERS.

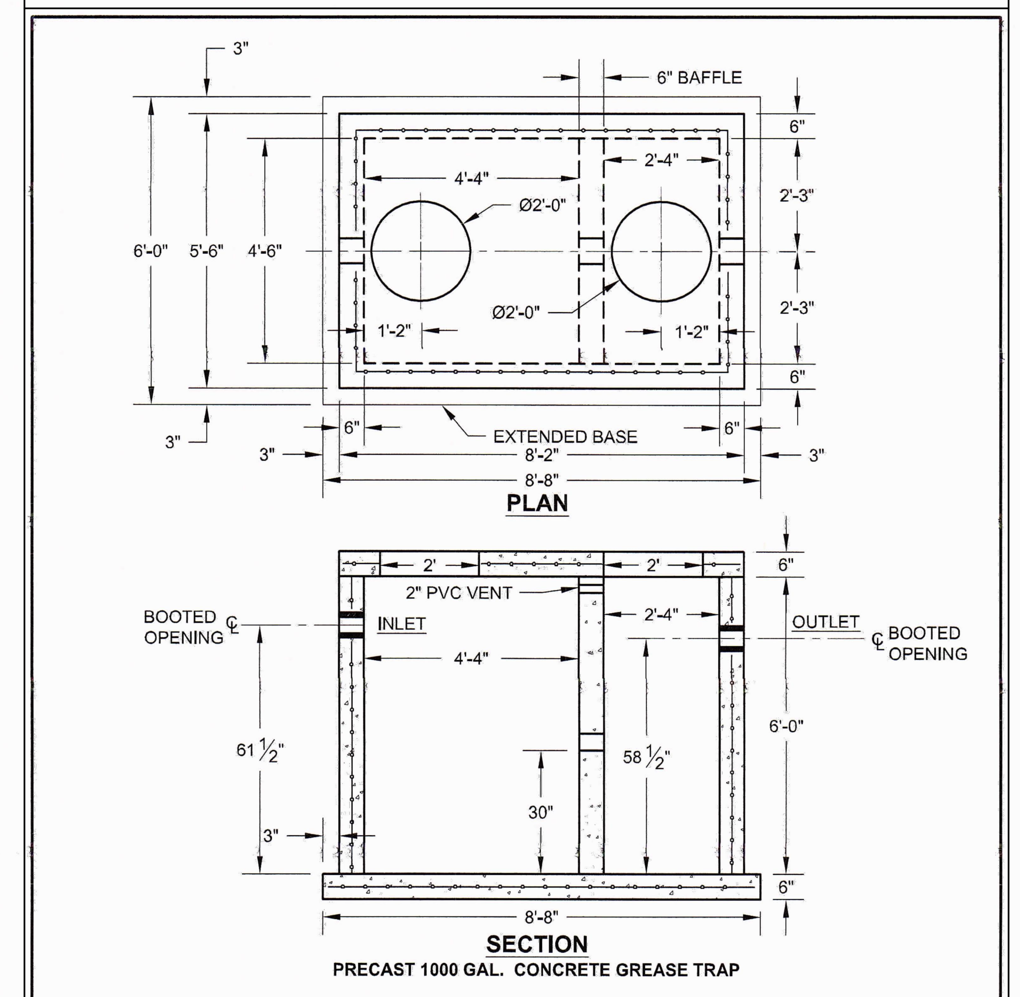
PIPE CONNECTION TO PROPOSED MANHOLE SHALL BE MADE WATER-TIGHT BY MEANS OF RUBBER GASKET SEAL (A-LOK OR EQUAL), CONFORMING TO A.S.T.M. F-477, CAST INTEGRALLY IN MANHOLE WALL OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP CONFORMING TO A.S.T.M. C-923.

PIPE CONNECTION TO EXISTING MANHOLE SHALL BE MADE WATER-TIGHT BY MEANS OF RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP, CONFORMING TO A.S.T.M. C-923, PSX SERIES SIX OR EQUAL. PIPE ACCESS SHALL BE MADE BY CORE DRILLING MANHOLE WALL.

MANHOLES LOCATED OUTSIDE PUBLIC RIGHT-OF-WAY, MUST BE MARKED WITH A METAL FENCE POST.

REVISED: MARCH 11, 1997 REVISED: MAY 14, 2003 PAD
REVISED: MARCH 3, 1999 PAD REVISED: JUNE 19, 2007 PAD

GREASE INTERCEPTOR



WELCH BROS., INC.
PRODUCERS OF QUALITY PRECAST CONCRETE PRODUCTS

ELGIN MAIN OFFICE & CONSTRUCTION SUPPLY
1050 ST. CHARLES ST.
ELGIN, ILLINOIS 60120

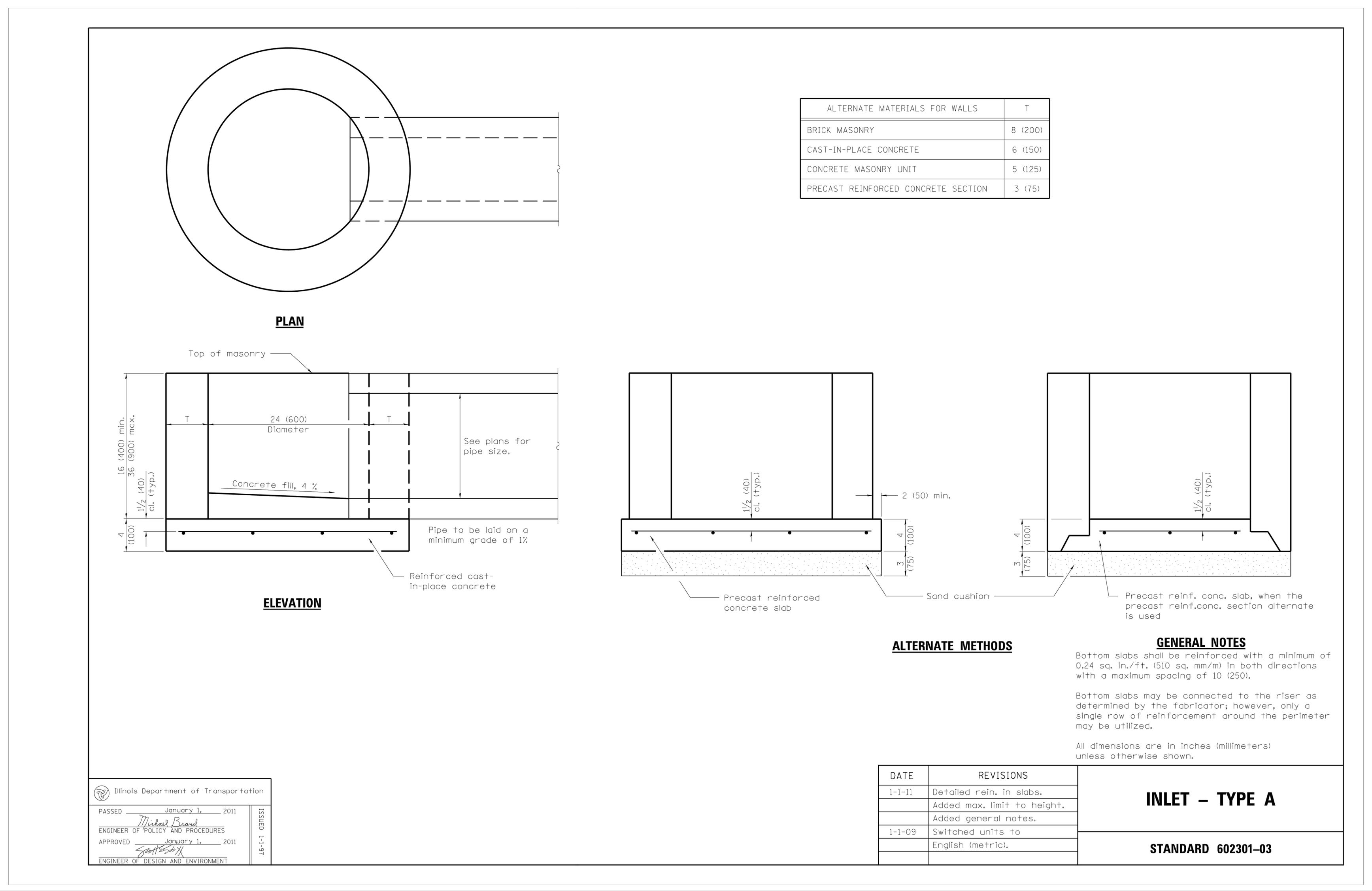
PRECAST FACILITIES
BARTLETT, ILLINOIS
BELVIDERE, ILLINOIS

NOTES:

1. WALLS & BOTTOM TO HAVE #4 BAR @ 6" O.C. E.W.
2. TOP TO HAVE #4 BAR @ 6" O.C. E.W.
3. CONCRETE TO BE 5000 PSI AFTER 28 DAYS
4. PIPE, FITTINGS AND CASTINGS ARE NOT INCLUDED AND AVAILABLE AT ADDITIONAL COST.

BELVIDERE - 1000 GALLON HEAVY DUTY GREASE TRAP
DRAWN BY: BGM
DRAWING NO: 1000GTHD-BELV

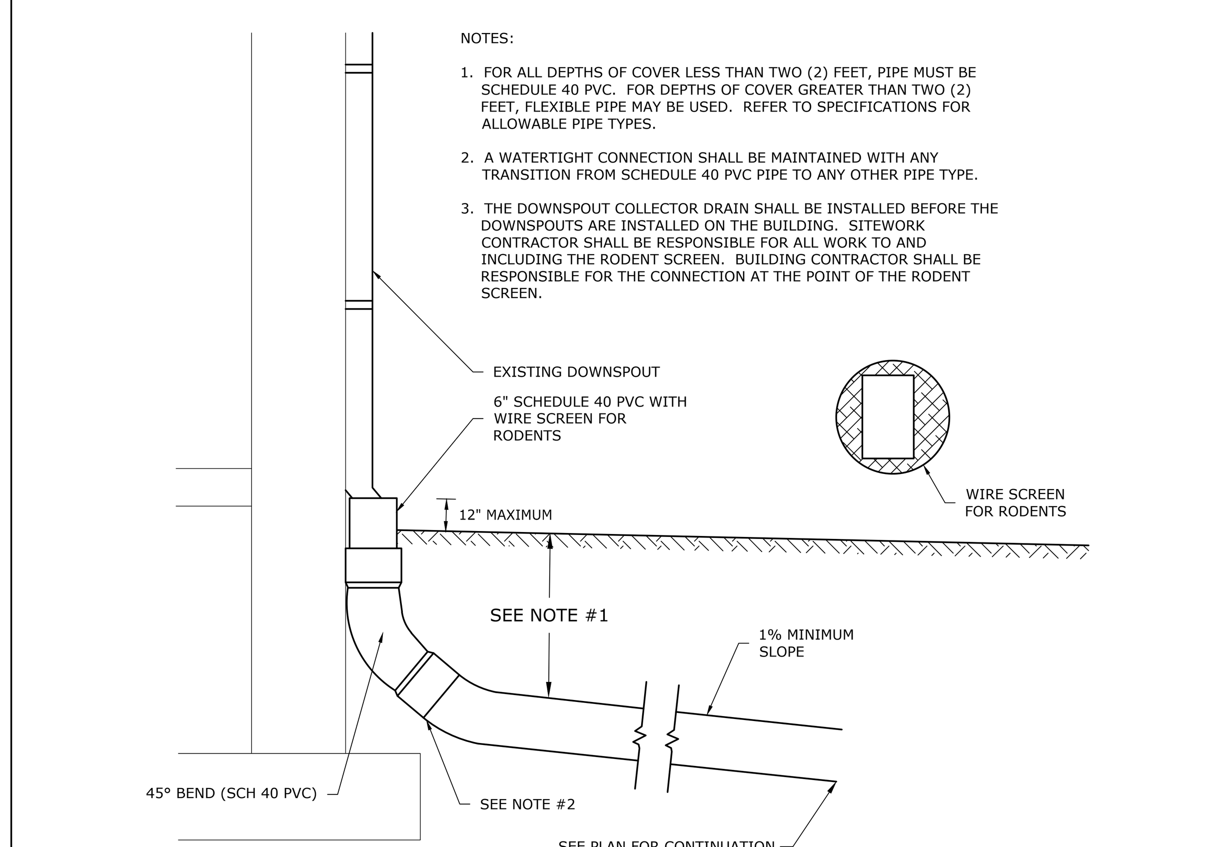
INLET - TYPE A DETAIL



DOWNSPOUT CONNECTION DETAIL

NOTES:

1. FOR ALL DEPTHS OF COVER LESS THAN TWO (2) FEET, PIPE MUST BE SCHEDULE 40 PVC. FOR DEPTHS OF COVER GREATER THAN TWO (2) FEET, FLEXIBLE PIPE MAY BE USED. REFER TO SPECIFICATIONS FOR ALLOWABLE PIPE TYPES.
2. A WATERTIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION FROM SCHEDULE 40 PVC PIPE TO ANY OTHER PIPE TYPE.
3. THE DOWNSPOUT COLLECTOR DRAIN SHALL BE INSTALLED BEFORE THE DOWNSPOUTS ARE INSTALLED ON THE BUILDING. SITEWORK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK TO AND INCLUDING THE RODENT SCREEN. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION AT THE POINT OF THE RODENT SCREEN.

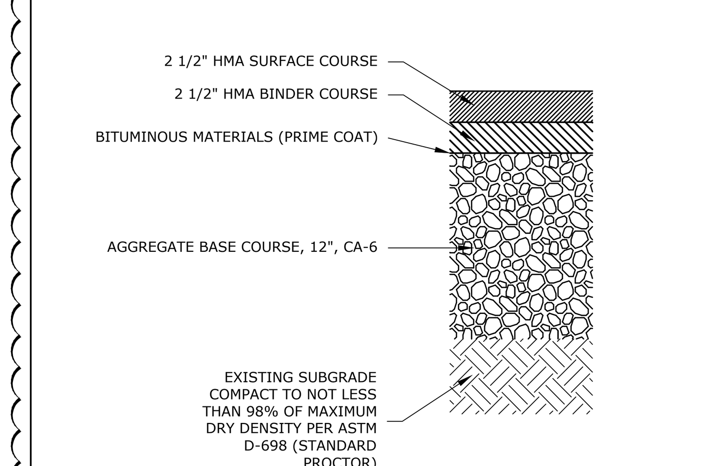


2

2

HEAVY DUTY ASPHALT PAVEMENT

NOT TO SCALE



DETAILS

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Rockford, Illinois 61108
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F: 815.397.0243
E: Business@HagneyArchitects.com
www.HagneyArchitects.com

ARC DESIGN RESOURCES INC.

A GYMNASIUM ADDITION FOR:
CARLSON ELEMENTARY SCHOOL
ROCKFORD, ILLINOIS

REVISIONS:

1	BID AND PERMIT DOCUMENTS
2	ADDENDUM 1
3	AGENCY APPROVAL

DRAWN BY:
DATE: 07.05.17
PROJECT NUMBER
15114
SHEET NUMBER
C16

C1623
CARLSON ELEMENTARY SCHOOL

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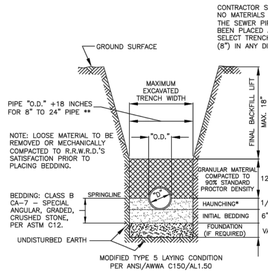
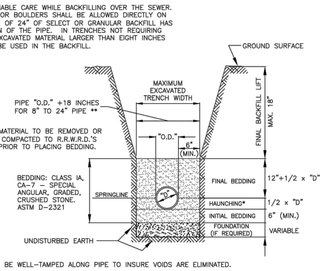


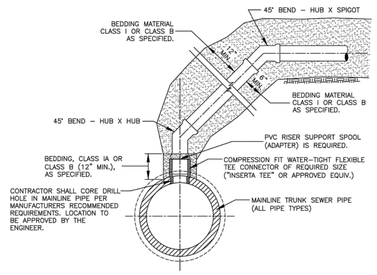
RIGID PIPE BEDDING DETAIL



* HAUNCHING TO BE WELL-TAMPED ALONG PIPE TO INSURE VOIDS ARE ELIMINATED.

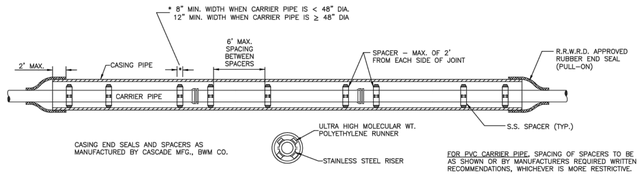
** ANY TRENCH WIDTHS EXCEEDING MAX. TRENCH WIDTH, SHALL BE BACKFILLED WITH MATERIALS AND METHODS SHOWN FOR THE ENTIRE WIDTH FOR NO ADDITIONAL COMPENSATION.

FLEXIBLE PIPE BEDDING DETAIL



SERVICE CONNECTION DETAIL

FOR CONNECTION TO 18" DIA. OR LARGER PIPE

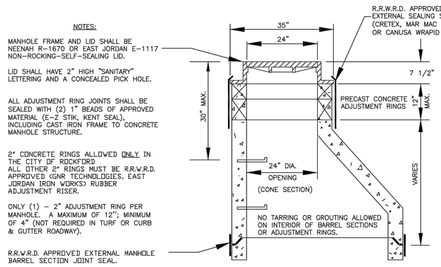


FOR PVC CARRIER PIPE, SPACING OF SPACERS TO BE AS SHOWN OR BY MANUFACTURERS REQUIRED WRITTEN RECOMMENDATIONS, WHICHEVER IS MORE RESTRICTIVE.

FOR NON- PVC CARRIER PIPE, LONGER SPACING SHALL BE ALLOWED IF BY MANUFACTURER'S RECOMMENDATION. OTHER PARTS OF DETAIL STILL APPLY.

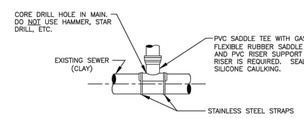
CASING AND SPACER DETAIL

FOR PVC CARRIER PIPE



SANITARY MANHOLE ADJUSTMENT DETAIL

FOR NEW AND EXISTING

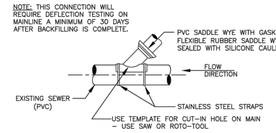


CUT-IN SERVICE CONNECTION DETAIL

(CLAY PIPE)

PROFILE VIEW

SEE STANDARD SERVICE & SERVICE CLEANOUT RISER DETAIL

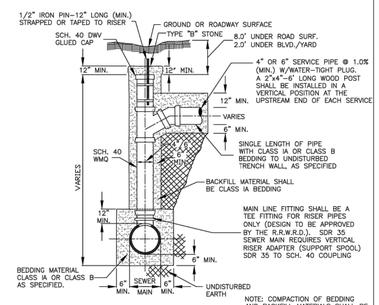


CUT-IN SERVICE CONNECTION DETAIL

(PVC PIPE)

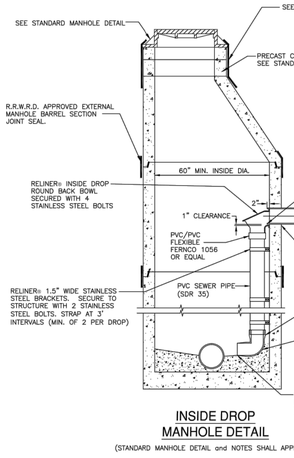
PLAN VIEW

SEE STANDARD SERVICE & SERVICE CLEANOUT RISER DETAIL



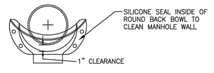
NOTE: COMPACTION OF BEDDING AND BACKFILL MATERIALS SHALL BE CAREFULLY PERFORMED TO COMPLY WITH R.R.W.R.D. STANDARDS.

VERTICAL RISER DETAIL



INSIDE DROP MANHOLE DETAIL

(STANDARD MANHOLE DETAIL and NOTES SHALL APPLY)



DROP BOWL DETAIL

DROP BOWL STANDARDS	
LATERAL PIPE SIZE	MINIMUM DIAMETER DOWN PIPE SIZE
6" DIA.	4"
8" DIA.	6"
10" DIA.	8"
>10" DIA.	*

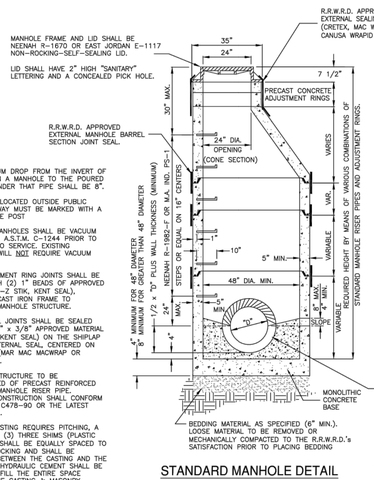
*PER MANUFACTURERS RECOMMENDATIONS OR AS DIRECTED BY RRWRD

NOTES:

1. ALL INSIDE DROP CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP AS PRODUCED BY: RELINER-DURAN INC., OR EQUAL.

   RELINER-DURAN, INC.
   53 MT. ARCHER RD.
   LYME, CT 06371
   PH. (860) 434-0277
   FAX: (860) 434-3195

2. SEE TABLE ABOVE FOR DROP CONNECTION PIPE AND FITTING SIZE.
3. ALL INSIDE DROP PIPING SHALL BE PVC SDR 35 ASTM D-3034
4. ATTACH THE ROUND BACK DROP BOWL & EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH 3/8" X 1" (MIN.) STAINLESS STEEL BOLTS & EPOXY IMPREGNATED LUGS PER MANUFACTURERS RECOMMENDATION
5. ALLOW 1" CLEARANCE BETWEEN PIPE AND BOWL.
6. CUT A 1" "V" NOTCH IN THE BOTTOM OF THE INLET PIPE.

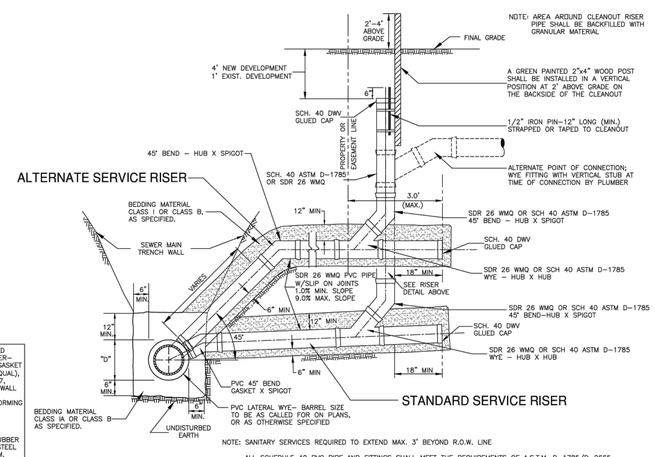


STANDARD MANHOLE DETAIL

PIPE CONNECTION TO PROPOSED MANHOLE SHALL BE MADE WATER-TIGHT BY MEANS OF RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL), CONFORMING TO A.S.T.M. F-477, CAST INTEGRALLY IN MANHOLE WALL OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP CONFORMING TO A.S.T.M. C-923.

PIPE CONNECTION TO EXISTING MANHOLE SHALL BE MADE WATER-TIGHT BY MEANS OF RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP, CONFORMING TO A.S.T.M. C-923, PSX SERIES SIX OR EQUAL. PIPE ACCESS SHALL BE MADE BY CORE DRILLING MANHOLE WALL.

PSX SERIES GASKETS ARE NOT PERMITTED ON MANHOLE OPENINGS OVER 20' DEEP. MANHOLE OPENINGS OVER 20' DEEP SHALL REQUIRE AN A-LOK TO MANHOLE GASKET.



NOTE: SANITARY SERVICES REQUIRED TO EXTEND MAX. 3' BEYOND R.O.W. LINE

ALL SCHEDULE 40 PVC PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF A.S.T.M. D-1785/D-2665.
ALL WMQ SDR 26 PVC PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF A.S.T.M. D-2241 AND D-3139.
ALL DWV FITTINGS SHALL BE CLEANED, PRIMED AND GLUED.

STANDARD SERVICE & ALTERNATE SERVICE RISER DETAIL

WITH SERVICE CLEANOUT RISER DETAIL

ROCK RIVER WATER RECLAMATION DISTRICT
STANDARD DETAIL SHEET
3501 KISHWAUKEE ST., P.O. BOX 7480, ROCKFORD, ILLINOIS 61109-7480 - PH. (815) 387-7660/FAX (815) 387-7665

Rock River Water Reclamation District

REV. 08/11/2015

DETAILS

HAGNEY ARCHITECTS LLC
Architecture, Planning, & Interior Design
4615 E. State St, Suite 206
Rockford, Illinois 61108
P: 815.397.3330
F: 815.397.0243
E: Business@HagneyArchitects.com
www.HagneyArchitects.com

ARC DESIGN RESOURCES INC.

A GYMNASIUM ADDITION FOR:
CARLSON ELEMENTARY SCHOOL
ROCKFORD, ILLINOIS

THE ARCHITECT WILL NOT HAVE CONTROL OVER, CHARGE OF, OR RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S RIGHTS AND RESPONSIBILITIES.

BY REFERENCE, AIA DOCUMENT A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", CURRENT EDITION, IS MADE A PART OF THESE DOCUMENTS.

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REVISIONS:
1 BID AND PERMIT DOCUMENTS
2 AGENCY APPROVAL

DRAWN BY:
DATE: 07.05.17
PROJECT NUMBER: 15114
SHEET NUMBER: C17

CARLSON ELEMENTARY SCHOOL
C1823

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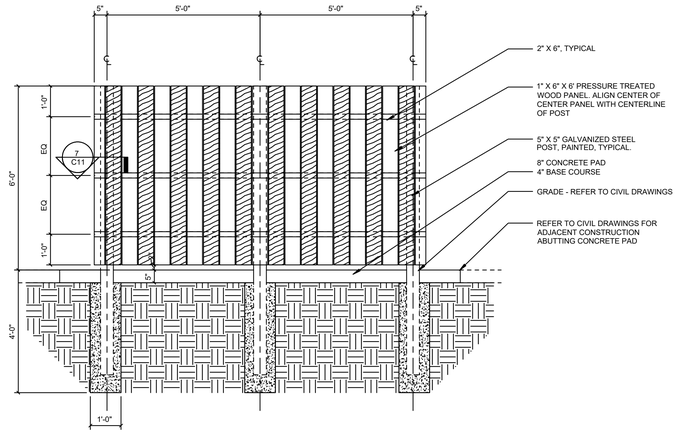
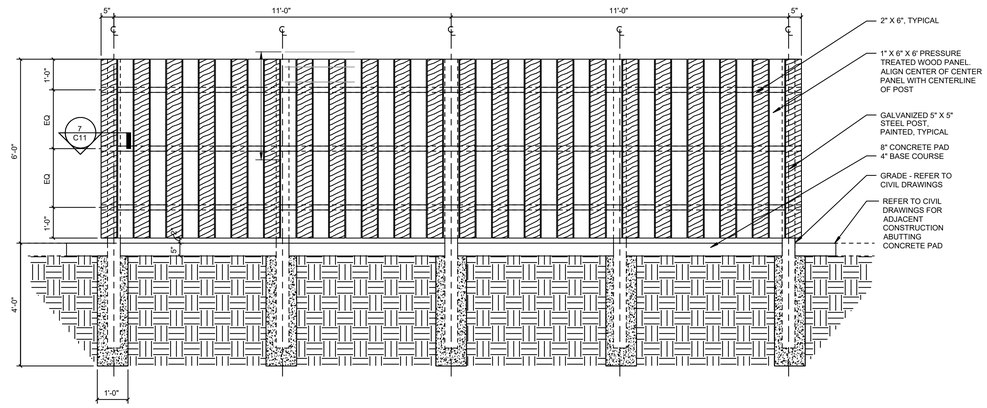
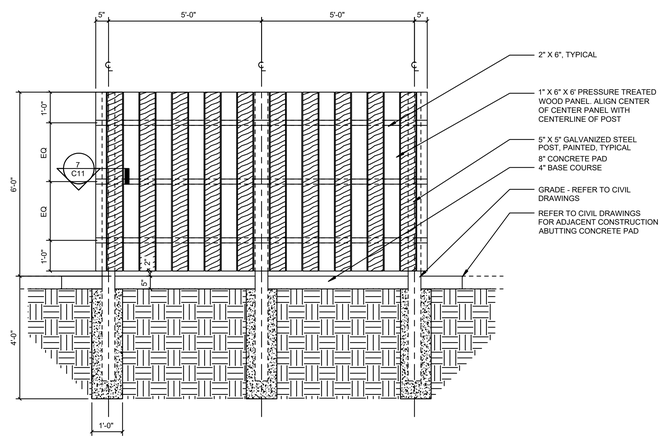


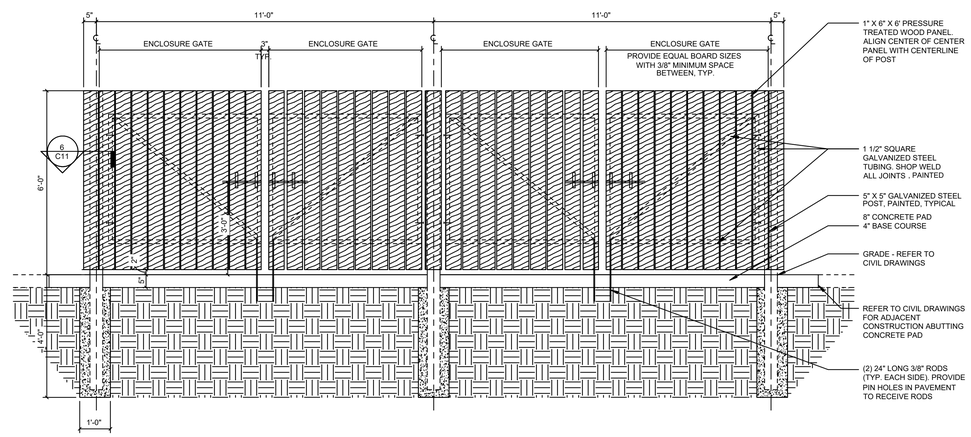
4 TRASH ENCLOSURE - ELEVATION/SECTION
1/2" = 1'-0"



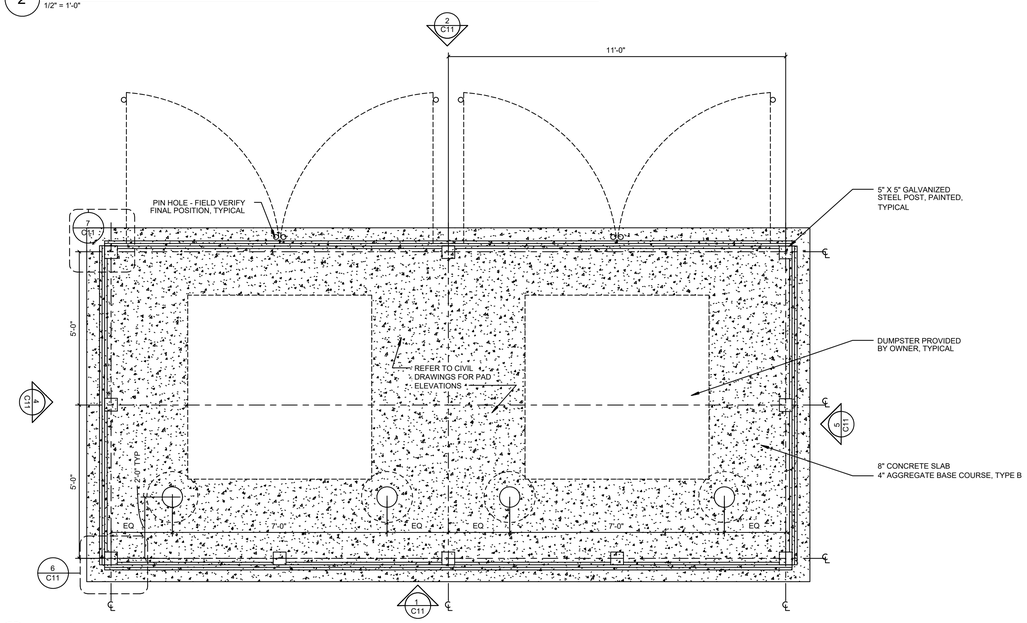
1 TRASH ENCLOSURE - ELEVATION
1/2" = 1'-0"



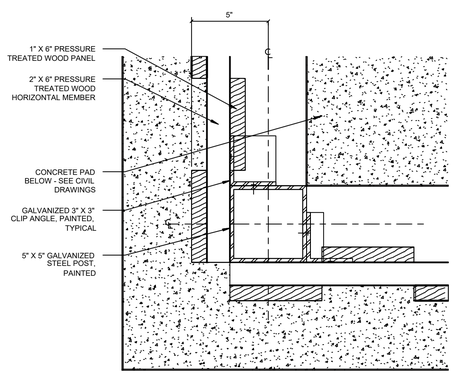
5 TRASH ENCLOSURE - ELEVATION/SECTION
1/2" = 1'-0"



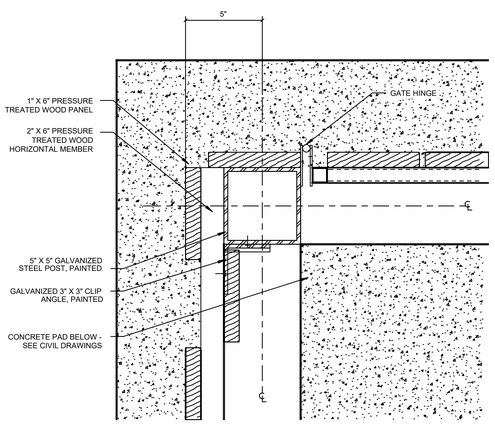
2 TRASH ENCLOSURE - ELEVATION
1/2" = 1'-0"



3 TRASH ENCLOSURE PLAN
1/2" = 1'-0"



6 TRASH ENCLOSURE PLAN - CORNER DETAIL
3" = 1'-0"



7 TRASH ENCLOSURE PLAN - GATE DETAIL
3" = 1'-0"

DETAILS

HAGNEY ARCHITECTS LLC
Architecture, Planning, & Interior Design
4615 E. State St, Suite 206
Rockford, Illinois 61108
P: 815.397.3330
F: 815.397.0243
E: Business@HagneyArchitects.com
www.HagneyArchitects.com

ARC DESIGN RESOURCES INC.

A GYMNASIUM ADDITION FOR:
CARLSON ELEMENTARY SCHOOL
ROCKFORD, ILLINOIS

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REVISIONS:
1 BID AND PERMIT DOCUMENTS
2 ADDENDUM 1
3 AGENCY APPROVAL

DRAWN BY:

DATE: 07.05.17

PROJECT NUMBER
15114

SHEET NUMBER
C18

CARLSON ELEMENTARY SCHOOL
C1823

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Engineering Services / Building Commissioning / LEED Consultants

Carlson Elementary School Gymnasium Addition Project
Addendum No. 1

Date: July 7, 2017

Addendum Items:

A. Specifications

1. -
   a. -

B. Drawings:

1. Sheet E2.10 Revised as Follows:
   a. Eliminate conduit, boxes and wiring to backboards on south side of gym.
   b. Add security conduit and back boxes at exterior Kitchen door.
   c. Add security service mounted raceway and boxes at two (2) interior Kitchen doors. See Revised Sheet E2.10.

2. Sheet E5.10 Details & Diagrams – Electrical
   a. Revise the Single Line Diagram to indicate new Panel "KP1" being fed from a new 400A 3P circuit breaker to be provided in available space within main switchboard. See revised Sheet E5.10.

C. Clarifications:

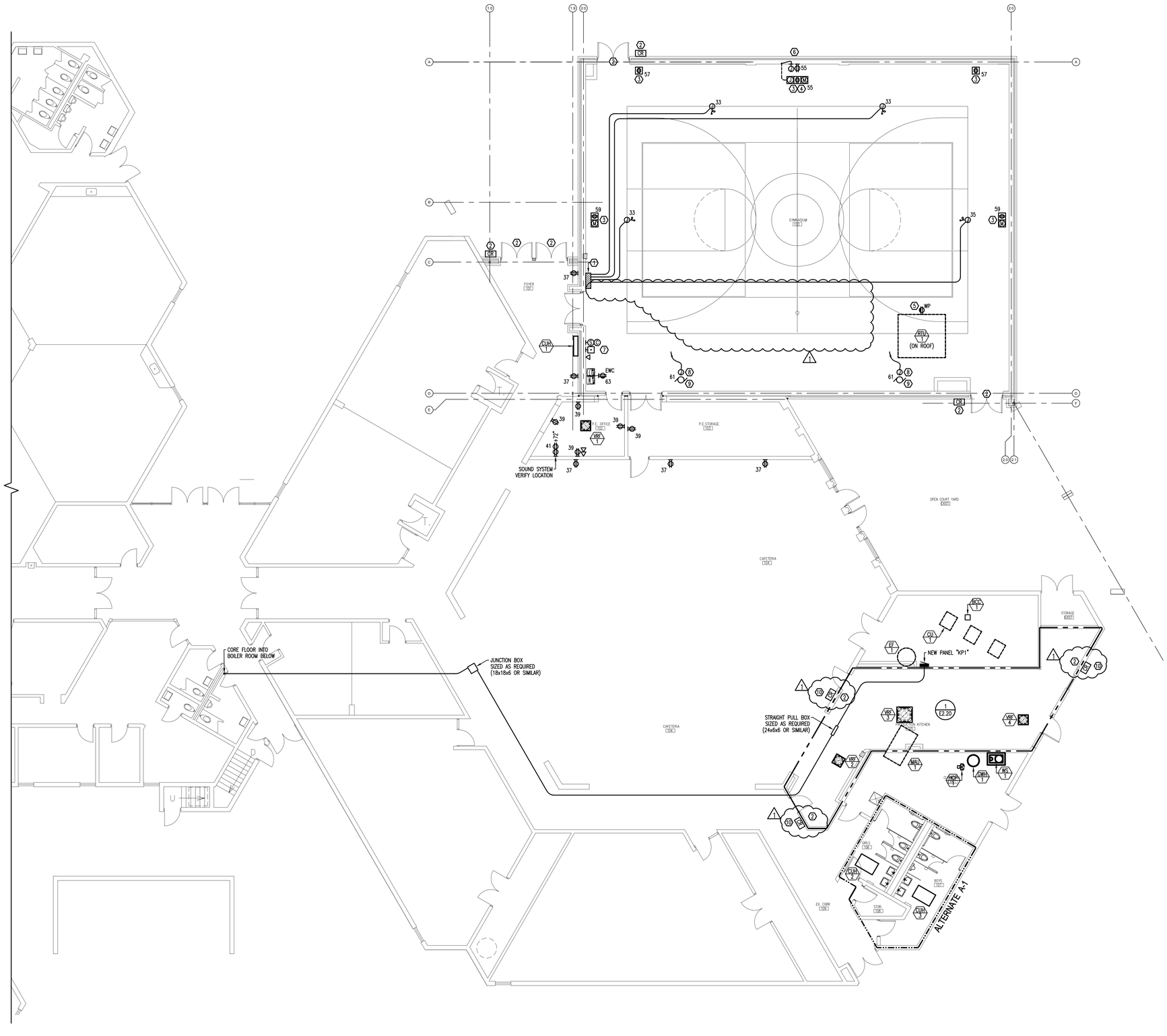
1. Sheet E1.00:
   a. All underground conduits for lighting and future cameras shall be galvanized rigid conduit, no PVC.

2. Sheet E1.10:
   a. There will be no "specification section" issued for lighting control. All lighting controls are scheduled on Sheet E1.10. All lighting controls are to be Lithonia N-Light.

Sincerely,

Rob Giniewski, P.E.

O'Higgins and Arnold Sustainability, LLC
769 Heartland Dr., Unit A
Sugar Grove, IL. 60554



NEW PLAN - POWER

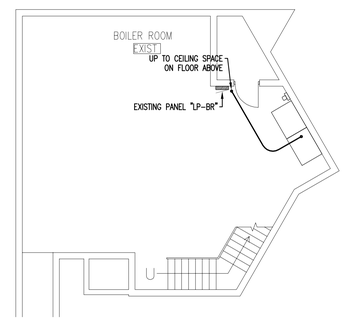
SCALE: 1/8" = 1'-0"

ELECTRICAL KEY NOTES

1. PROVIDE FINAL CONNECTION TO BACKSTOP CONTROL EQUIPMENT. PROVIDE WIRING FROM CONTROL SWITCHES TO EACH MOTOR, PER MANUFACTURER REQUIREMENTS. PROVIDE 120V CIRCUITS (2 TOTAL) AS REQUIRED.
2. PROVIDE CONDUIT AND BACK BOXES AS REQUIRED FOR SECURITY SYSTEM BY OTHERS. SEE DETAILS ON SHEET E5.10 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. ALL RECEPTACLES AND MICROPHONE FLOOR BOXES SHALL BE WIREMOLD #880051-1/8TCAL-828R-TCAL OR HUBBELL EQUAL. VERIFY REQUIREMENTS IN FIELD. RUN 1"C FROM MICROPHONE COMPARTMENT TO SOUND RACK. COORDINATE LOCATION OF SOUND RACK, BUT FOR BIDDING PURPOSES, ASSUME FARTHEST CORNER OF P.E. OFFICE 102.
4. SCOREBOARD CONTROLLER AND OUTLET AS REQUIRED. VERIFY REQUIREMENTS PRIOR TO INSTALLING.
5. PROVIDE WEATHER PROOF GFCI RECEPTACLE ABOVE ROOF. PROPERLY SEAL ROOF PENETRATION IN ACCORDANCE WITH ROOFING REQUIREMENTS.
6. PROVIDE DUPLEX RECEPTACLE AT 20'-0" AFF FOR SCOREBOARD. PROVIDE 3/4"C FROM SCOREBOARD CONTROLLER FLOOR BOX TO JUNCTION BOX AT SCOREBOARD LOCATION. COORDINATE ALL REQUIREMENTS WITH SCOREBOARD MANUFACTURER AND PROVIDE AS REQUIRED. IF CONTROLLER IS WIRELESS, CONDUIT IS NOT REQUIRED.
7. IP SYSTEM, CLOCK AND CALL SWITCH PROVIDED BY SCHOOL DISTRICT. CONTRACTOR TO PROVIDE DATA OUTLET HIGH ON WALL (ASSUME 8'-6" AFF. - VERIFY IN FIELD).
8. RUN 3/4"C FROM FLOOR VENTILATION SYSTEM BLOWER TO HUMIDISTAT. COORDINATE LOCATIONS AND REQUIREMENTS, AND PROVIDE AS REQUIRED.
9. PROVIDE FINAL CONNECTION TO GYM FLOOR VENTILATION SYSTEM BLOWER UNDER BLEACHERS. COORDINATE LOCATIONS AND REQUIREMENTS, AND PROVIDE AS REQUIRED.
10. PROVIDE SURFACE MOUNTED RACEWAY & BOXES AS REQUIRED FOR SECURITY SYSTEM BY OTHERS. SEE DETAILS ON SHEET E5.10 FOR ADDITIONAL INFORMATION & REQUIREMENTS.

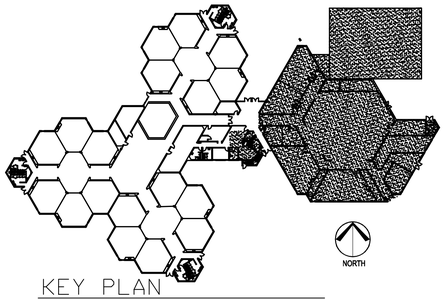
PROJECT PHASING

SEE ARCHITECTURAL DRAWINGS PH1.00, PH2.00 AND THE SPECIFICATIONS FOR MECHANICAL/ELECTRICAL/PLUMBING PHASING/ALTERNATE REQUIREMENTS.



BOILER ROOM PLAN - POWER

SCALE: 1/8" = 1'-0"



KEY PLAN

NOT TO SCALE

O'Higgins & Arnold Sustainability, LLC
www.oasllc.net

NO.	DATE	DESCRIPTION
1	04.07.17	Bid and Permit Documents
2	07.07.17	1 Addendum No. 1

ISSUANCE

HAGNEY ARCHITECTS LLC
Architecture, Planning, & Interior Design
4615 E. State St. Suite 206
Rockford, Illinois 61108
P: 815.397.3330
F: 815.397.0243
E: Business@HagneyArchitects.com
www.HagneyArchitects.com

PROFESSIONAL SEAL

EXPIRATION DATE

DATE	04.07.17
DRAWN	
CHECKED	
APPROVED	

CARLSON ELEMENTARY SCHOOL
ROCKFORD PUBLIC SCHOOL
ROCKFORD, ILLINOIS

NEW PLAN - POWER

SHEET NO. E2.10

HAGNEY JOB NO. C1824

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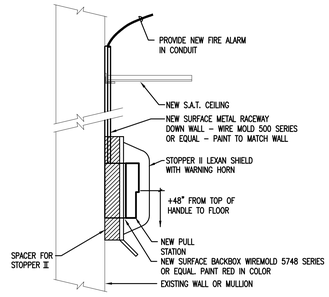
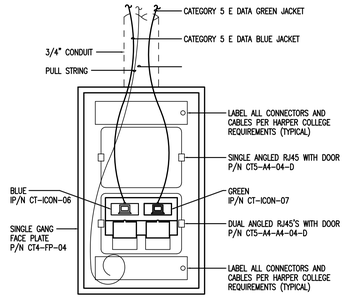


NOTE:
REFERENCE THIS DETAIL WHEN PULL STATIONS ARE BEING ADDED ON AN EXISTING WALL OR MULLION.

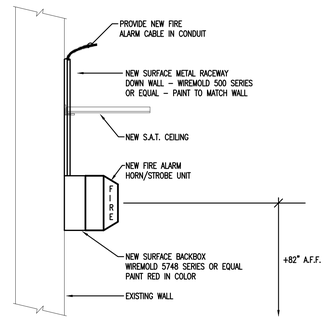
1 / E5.0 PULL STATION SURFACE MOUNTING DETAIL
NO SCALE



TYPICAL MOUNTING HEIGHT = +18" A.F.F.
(UNLESS OTHERWISE NOTED)

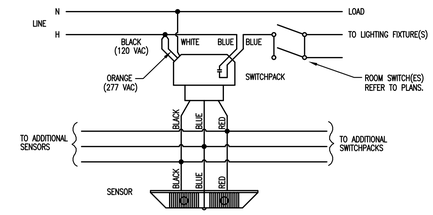
NOTE:
PROVIDE APPROVED CABLE-TIE THREADED THRU EYELETS IN BACK OF COUPLER FOR CABLE MANAGEMENT AND STRAIN RELIEF

2 / E5.0 CATEGORY 5 E DATA OUTLET
NO SCALE



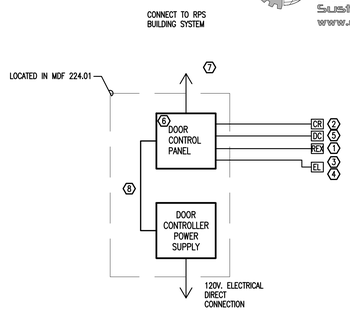
NOTE:
REFERENCE THIS DETAIL WHEN HORN/STORVE UNITS ARE BEING ADDED ON AN EXISTING WALL.

3 / E5.0 HORN/STROBE SURFACE MOUNTING DETAIL
NO SCALE



4 / E5.0 OCCUPANCY SENSOR WIRING DIAGRAM
NO SCALE

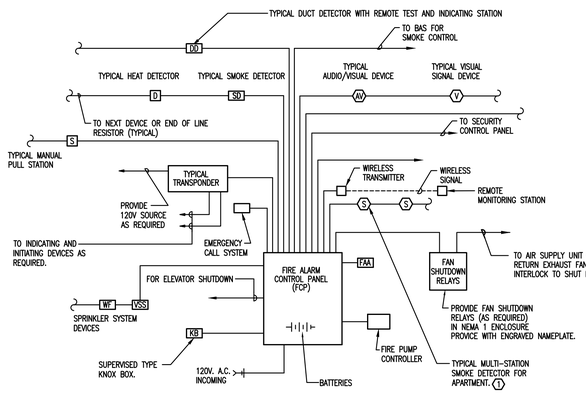
NOTE:
AUTOMATIC LIGHTING SWITCH SENSORS WILL BE AS MANUFACTURED BY NOVITAS INC. CAT. #01-100 (TWO-WAY ROOM SENSOR) WITH SWITCHPACK CAT. #13-051 AS REQUIRED.



KEYED NOTES:
1. 2-CONDUCTOR 22 AWG
2. 6-CONDUCTOR 18 AWG
3. 2-CONDUCTOR 18 AWG
4. PROVIDE BY OTHERS.
5. 2-CONDUCTOR 18 AWG
6. CONNECT TO THE FIRE ALARM SYSTEM.
7. CATEGORY 6 PATCH CORD.
8. 2-CONDUCTOR 14 AWG

NOTES:
A. EC/TC SHALL COORDINATE THE INSTALLATION OF EQUIPMENT WITH RPS SECURITY GROUP.
B. CONTRACTOR WILL PROVIDE SECURITY EQUIPMENT.
C. CONDUIT ROUGH-IN SHALL BE BY THE ELECTRICAL CONTRACTOR.

5 / E5.0 DOOR CONTROL SCHEMATIC BLOCK DIAGRAM
NO SCALE



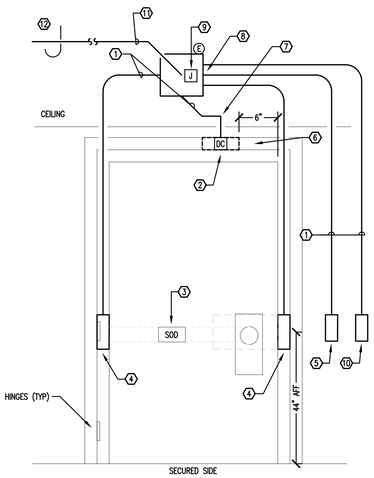
FIRE ALARM SYSTEM GENERAL NOTES:

A. PROVIDE CONDUITS FOR ALL FIRE ALARM SYSTEM WIRING.
B. WIRING TYPES SHALL BE AS REQUIRED BY THE MANUFACTURER.
C. THIS DIAGRAM SHOWS THE BASIC CONCEPT OF THE FIRE ALARM SYSTEM. REFER TO FLOOR PLAN FOR QUANTITY OF DEVICES.
E. PROVIDE TRANSPONDERS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
F. ALL VISUAL DEVICES IN AN AREA SHALL BE SYNCHRONIZED TO FLASH AT AN APPROVED RATE.
G. PROVIDE REMOTE TEST SWITCH AND INDICATING STATION FOR EACH DUCT SMOKE DETECTOR IN A READILY ACCESSIBLE AND VISIBLE SPACE. PROVIDE PERMANENT LABEL ON THIS STATION INDICATING HVAC EQUIPMENT MONITORED.

KEYED NOTES

1. POWER TO MULTI-STATION SMOKE DETECTOR SHALL BE PROVIDED FROM FCP, SHALL BE SUPERVISED AND SHALL HAVE BATTERY BACK-UP. MULTI-STATION SMOKE DETECTOR SHALL PROVIDE LOCAL ALARM IN APARTMENT UP TO 1 MINUTE AS PER LOCAL ORDINANCE. ONLY AFTER 1 MINUTE, IT SHALL SEND ALARM SIGNAL TO FCP TO COMPLY WITH LOCAL ORDINANCE.

6 / E5.0 FIRE ALARM SYSTEM RISER DIAGRAM
NO SCALE

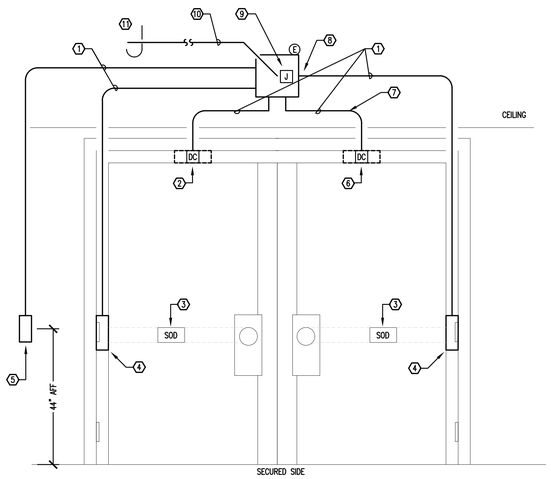


KEYED NOTES

1. 1/2" FLEXIBLE CONDUIT WITH PULL STRING.
2. HOLES (CENTERED IN BOX).
3. SECURITY OVERRIDE DEVICE LOCATED IN PANIC BAR. (PROVIDED BY DIV. 8, CONNECTED BY DIV.26.)
4. 1-GANG HINGE MORTAR GUARD BOX WELDED TO FRAME AT HEIGHT OF ELECTRICAL POWER TRANSFER HINGE.
5. CARD READER 2-GANG JUNCTION BOX. LOCATED ON EXTERIOR SIDE OF DOOR AS SHOWN ON DRAWINGS. CUT AND MOUNT CARD READER FLUSH IN EXTERIOR WALL. COORDINATE INSTALLATION OF MULLION MOUNTED DEVICE WITH DIVISION 8 AS SHOWN ON FLOOR PLANS.
6. MORTAR GUARD BOX FOR FLUSH MAGNETIC DOOR CONTACT BY DIV. 26. 3/4" HOLE IN DOOR FRAME AND TOP OF DOOR BUCK BY DIVISION 8.
7. ROUTE THROUGH ALUMINUM FRAME AT STOREFRONT/CURTAIN WALL LOCATIONS AS REQUIRED.
8. MOUNT DEVICES ON SECURE SIDE OF DOOR.
9. ENCLOSURE SHALL CONTAIN READER INTERFACE MODULE AND POWER SUPPLY FOR DOOR DEVICES.
10. INTERCOM 2-GANG JUNCTION BOX LOCATED ON EXTERIOR SIDE OR DOOR AS SHOWN ON DRAWINGS. CUT AND MOUNT INTERCOM FLUSH IN EXTERIOR WALL. PATCH BRICK AS REQUIRED.
11. BUSHED 3/4"Ø TO NEAREST ACCESSIBLE CEILING WITH PULL STRING.
12. SECURE J-HOOK TO STRUCTURE. SUPPORT CABLING IN J-HOOKS ABOVE SUSPENDED CEILING TO NETWORK CONTROLLER.

NOTE:
COORDINATE WORK WITH DIVISION 8 AND DIVISION 28.

7 / E5.0 281300.13- SINGLE DOOR WITH CARD READER AND INTERCOM
NO SCALE

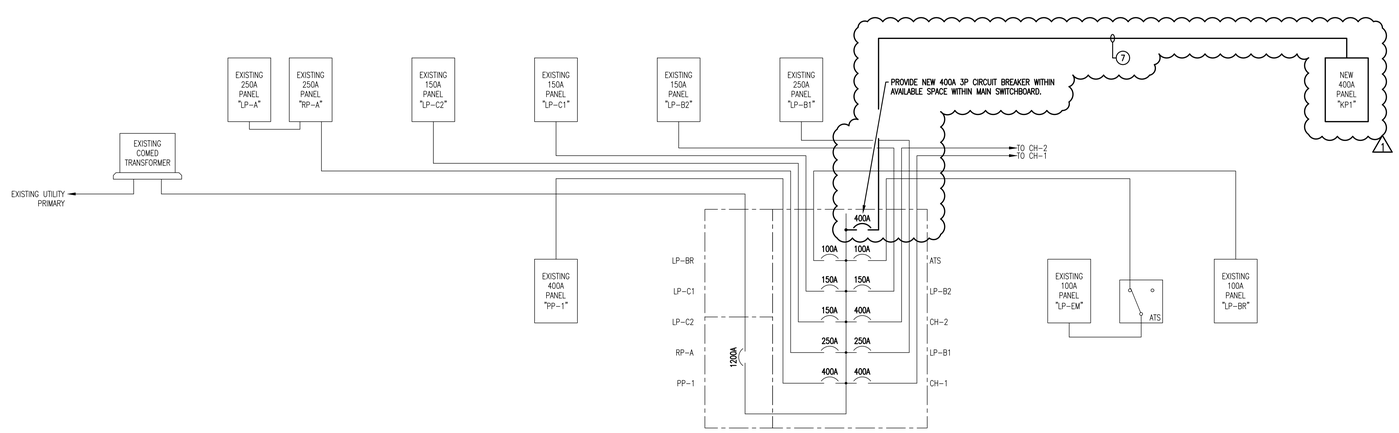


KEYED NOTES

1. 1/2" FLEXIBLE CONDUIT WITH PULL STRING.
2. HOLES (CENTERED IN BOX).
3. SECURITY OVERRIDE DEVICE LOCATED IN PANIC BAR. (PROVIDED BY DIV. 8, CONNECTED BY DIV.26.)
4. 1-GANG HINGE MORTAR GUARD BOX WELDED TO FRAME AT HEIGHT OF ELECTRICAL POWER TRANSFER HINGE. HINGE BY DOOR HARDWARE INSTALLER.
5. CARD READER 2-GANG JUNCTION BOX. LOCATED ON EXTERIOR SIDE OF DOOR AS SHOWN ON DRAWINGS. CUT AND MOUNT CARD READER FLUSH IN EXTERIOR WALL. COORDINATE INSTALLATION OF MULLION MOUNTED DEVICE WITH DIVISION 8 AS SHOWN ON FLOOR PLANS.
6. MORTAR GUARD BOX FOR FLUSH MAGNETIC DOOR CONTACT BY DIV. 26.
7. ROUTE THROUGH ALUMINUM FRAME AT STOREFRONT/CURTAIN WALL LOCATIONS AS REQUIRED.
8. MOUNT DEVICES ON SECURE SIDE OF DOOR.
9. ENCLOSURE SHALL CONTAIN READER INTERFACE MODULE AND POWER SUPPLY FOR DOOR DEVICES.
10. BUSHED 1"Ø TO NEAREST ACCESSIBLE CEILING WITH PULL STRING.
11. SECURE J-HOOK TO STRUCTURE. SUPPORT CABLING IN J-HOOKS ABOVE SUSPENDED CEILING TO NETWORK CONTROLLER.

NOTE:
COORDINATE WORK WITH DIVISION 8 AND DIVISION 28.

8 / E5.0 281300.15- DOUBLE DOOR WITH CARD READER
NO SCALE



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O'Higgins & Arnold Sustainability, LLC
www.oasllc.net

NO.	DATE	DESCRIPTION
1	04.07.17	Bid and Permit Documents
2	07.07.17	Addendum No. 1

ISSUANCE

HAGNEY ARCHITECTS LLC
Architecture, Planning, & Interior Design
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PROFESSIONAL SEAL

EXPIRATION DATE

DATE 04.07.17
DRAWN
CHECKED
APPROVED

CARLSON ELEMENTARY SCHOOL
ROCKFORD PUBLIC SCHOOL
ROCKFORD, ILLINOIS

DETAILS & DIAGRAMS - ELECTRICAL

SHEET NO.
E5.10

HAGNEY JOB NO. C1824

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S2O Consultants, Inc.
Consultants to the Hospitality Industry
Kristin Sedej
530 N Wood #C
Chicago, IL 60013
Phone: 1-224-717-1999

Carlson School Bidding RFI Response
Project: CES
Date: 07-07-17
RE: Kitchen RFI

1. Item 7 on the schedule it shows that 1 is existing and 1 is by owner, in the specifications the only thing it mentions is that the owner will be providing the soap and paper towel dispensers. Can you please clarify who is to be proving these items? As the specifications and drawings state: one is existing and one (1) is provided by RPS but installed by G.C.
2. Item 11 on the schedule and the specifications say that this item is a spare number, however there is 1 on the plan between 9 and 13 and above 12. Can you please clarify what this item is and who is to provide it?
    1. We do not show any Item #11 on the plans
3. The condensing units for the freezer and cooler say on the roof, looking at the plans it looks like it is on the third story can you verify the location and number of stories? See Mechanical Sheet M2.10 for location

SECTION 00 4115 - REFERENCES

1.1 The undersigned Contractor has actively engaged in work of the nature of the project described, and have adequate specialized men and machines to do the work. The following list of construction projects that have been completed within the last five years and relate to the type of work specified.

1 Name of Project: _____
Amount ($) of Contract: _____
Date Completed: _____
Owner: _____
Address: _____
Contact Person: _____
Telephone Number: _____
Architect: _____
Contact Person: _____
Telephone Number: _____

2 Name of Project: _____
Amount ($) of Contract: _____
Date Completed: _____
Owner: _____
Address: _____
Contact Person: _____
Telephone Number: _____
Architect: _____
Contact Person: _____
Telephone Number: _____

3 Name of Project: _____
Amount ($) of Contract: _____
Date Completed: _____
Owner: _____
Address: _____
Contact Person: _____
Telephone Number: _____
Architect: _____
Contact Person: _____

Telephone Number: _____

4 Name of Project: _____

Amount ($) of Contract: _____

Date Completed: _____

Owner: _____

Address: _____

Contact Person: _____

Telephone Number: _____

Architect: _____

Contact Person: _____

Telephone Number: _____

BIDDER SIGNATURE: _____

Respectfully submitted this day of 2016.

END OF SECTION 008115