



# AIA® Document G709™ – 2018

## Proposal Request

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**PROJECT:** *(name and address)*

Textron West Campus  
C3 Brite Works

**OWNER:** *(name and address)*

Textron Aviation, Inc.  
One Campus Blvd.  
Wichita, KS 67215

**CONTRACT INFORMATION:**

Contract For: General Construction  
Date: --

**ARCHITECT:** *(name and address)*

Professional Engineering Consultants  
PA  
303 S. Topeka  
Wichita, KS 67202

Architect's Project Number: 178003-037

Proposal Request Number: 005

Proposal Request Date: January 8, 2018

**CONTRACTOR:** *(name and address)*

Conco Construction  
3051 N. Ohio Street  
Wichita, KS 67219

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The Owner requests an itemized proposal for changes to the Contract Sum and Contract Time for proposed modifications to the Contract Documents described herein. The Contractor shall submit this proposal within Zero (0) days or notify the Architect in writing of the anticipated date of submission.

*(Insert a detailed description of the proposed modifications to the Contract Documents and, if applicable, attach or reference specific exhibits.)*

Sheet C-201, C-202, C-203, C-101, C-102, C-103, C-104: Updated for submittal of PPD.

Sheet E-501: Updated to accommodate MABCD comments.

**THIS IS NOT A CHANGE ORDER, A CONSTRUCTION CHANGE DIRECTIVE, OR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED IN THE PROPOSED MODIFICATIONS.**

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**REQUESTED BY THE ARCHITECT:**

Todd Hanson, Project Manager

**PRINTED NAME AND TITLE**

# GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION, AS FOLLOWS:  

KANSAS ONE-CALL	687-2470
THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:	
AT&T	1-800-246-8464
BLACK HILLS ENERGY	1-800-694-8989
CITY OF WICHITA WATER & SEWER	1-316-219-8921
CITY OF WICHITA STORMWATER	1-316-268-4090
CITY OF WICHITA TRAFFIC	1-316-268-4034
COX COMMUNICATIONS	1-888-249-3530
KANSAS GAS SERVICE	1-888-482-4950
WESTAR ENERGY	1-800-544-4857
- UTILITY SERVICE LINES, POLES, ETC. ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS, IN THE OPINION OF THE ENGINEER, THAT WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS. OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE CITY ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- THE ENGINEERING DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FINAL GRADES BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE INSPECTING ENGINEER AND TOM MASON AT 316-268-4574 WITH THE CITY OF WICHITA WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION. STAKING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER, BRIAN COON AT [ITRAFFIC@WICHITA.GOV](mailto:ITRAFFIC@WICHITA.GOV) BEFORE CONSTRUCTION CAN BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTORS RESPONSIBILITY.
- ALL ELEVATIONS SHOWN ARE NAVD 88.
- ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.


- ANY SIDEWALK, DRIVE APPROACH, OR STREET PAVEMENT REMOVED TO CONSTRUCT PROJECT MUST HAVE A PAVEMENT CUT PERMIT AND BE REPLACED BY THE CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-268-4501 OR 316-268-4480.
- CITY MAINTENANCE OF STORM SEWER ENDS AT THE LAST STRUCTURE IN THE EASEMENT OR RIGHT-OF-WAY.
- CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- THE INSPECTING FIRM SHALL SUBMIT TO THE CITY STORMWATER MAINTENANCE DIVISION A DIGITAL COPY OF THE CCTV INSPECTION OF THE CONDUITS AND STRUCTURES FOLLOWING CONSTRUCTION. THE DIGITAL FILE FORMATION SHALL BE COMPATIBLE WITH THE CITY INPUT TEMPLATE. A COPY OF THE TEMPLATE IS AVAILABLE UPON REQUEST AT 316-268-4090.
- THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTORS EXPENSE.
- A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDING AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUND SHALL BE CONSTRUCTED WITH NEW DEVELOPMENT AS A SIX (6) FOOT DIAMETER FLAT TOP WITH 4 TO 1 SIDE SLOPES DOWN TO THE ORIGINAL GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.4 FOOT BELOW THE TOP OF THE MANHOLE.

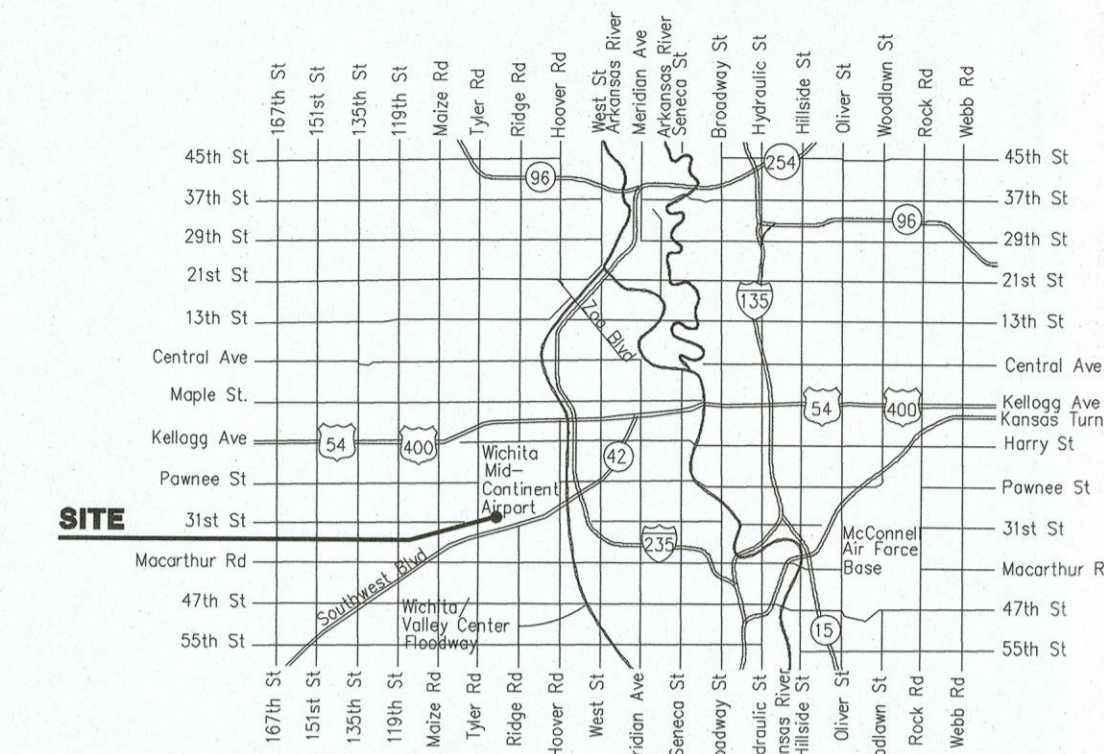
# SHEET INDEX

- SHEET NO. C-201 TITLE SHEET
- SHEET NO. C-202 LINE 1
- SHEET NO. C-203 PLAT
- SHEET NO. C-101 EXISTING CONDITIONS
- SHEET NO. C-102 GRADING PLAN
- SHEET NO. C-103 PAVEMENT AND SWS MH DETAILS
- SHEET NO. C-104 UTILITY BACKFILL DETAILS
- EROSION CONTROL BMP DETAILS - AVAILABLE ON THE CITY'S WEBSITE

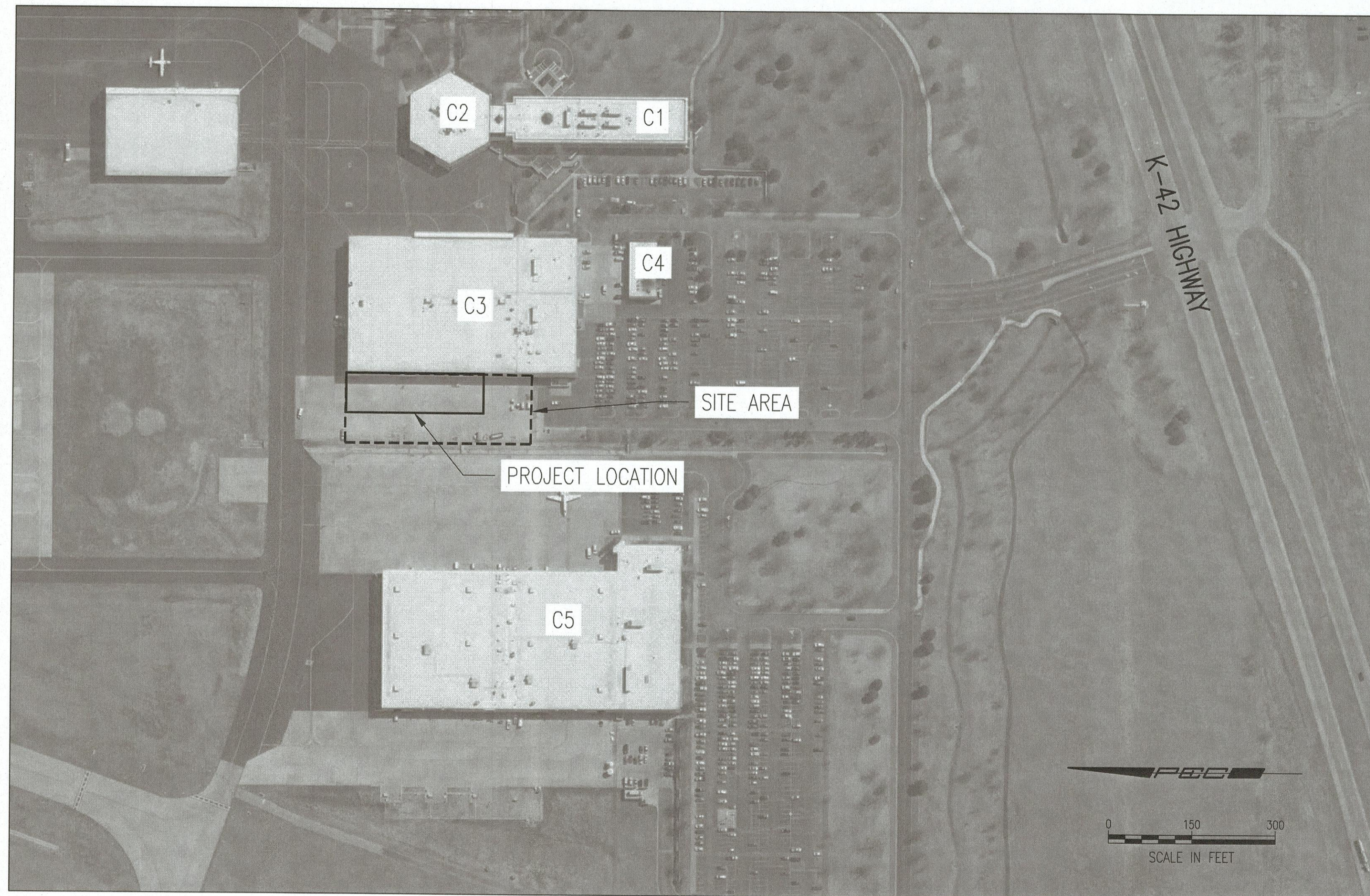
# STORM SEWER IMPROVEMENTS to serve TEXTRON AVIATION WEST CAMPUS-C3 BRITE WORKS CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer  
Project Number  
559 PPD (133119)

AS BUILTS	
Contractor: McCullough Excavation, Inc.	Project Inspector: Larry Gann
3/1/2019	 117 E. Lewis, Wichita, KS 67202 (316)264-0242



Vicinity Map



## BENCHMARKS (NOT SHOWN)

- BM 11 ELEVATION: 1310.805 DATUM NGVD29  
CHISELED SQUARE ON TOP CENTER OF THE WEST HEADWALL RCBC UNDER NORTH AND SOUTH TAXIWAY.
- BM 201 ELEVATION: 1312.575 NGVD29  
CHISELED SQUARE ON TOP OF CURB ON WEST SIDE OF DRAINAGE CANAL WEST OF BUILDING C-3 AT NORTHWEST CORNER OF METAL GRATE BRIDGE.

## CONTROL POINTS

- CP-101. N: 1,700,888.9450, E: 1,691,330.9170  
CHISELED + IN HIGH EDGE OF CURB ON WEST SIDE OF CANAL WEST OF BLDG. C-3.  
2.26' E TO BACK OF CURB.  
5.00' SSE TO SW COR. OF WROUGHT IRON FENCE POST.  
50.36' NNE TO W FACE OF LIGHT POLE.
- CP-102. N: 1,700,652.4080, E: 1,691,255.1970  
MAG NAIL IN CONCRETE JOINT NORTH OF NORTHWEST CORNER OF BLDG. C-3 BRITE WORKS.  
18.50' W TO CENTER OF WATER VALVE.  
75.02' S TO TOP CENTER OF FIRE HYDRANT.  
1.25' E TO JOINT BETWEEN ASPH. & CONC. RUNNING S.  
19.56' N TO S EDGE ASPH. TAXIWAY RUNNING E-W TO S END OF EISENHOWER RUNWAY.

Stormwater Certification:  
New Development or Redevelopment (Circle One)

Stormwater Permit # N/A  
 NOI State Permit # N/A  
 NOI Federal Permit # N/A

These construction plans were prepared in accordance with the current Stormwater management Regulations as set forth in the City of Wichita's Stormwater Management Ordinance 16.32 and the policies/guidelines presented in the Wichita/Sedgwick County Stormwater Manual.

Site Area (Acres) = 1.0  
 Disturbed Area (Acres) = 0.44  
 Water Quality Treatment: N/A  
 Downstream Channel Protection: N/A  
 Detention: N/A  
 The BMP used for this development is N/A

APPROVED AS NOTED  
BY WICHITA PUBLIC WORKS ENGINEERING AND STORMWATER DIVISION

Engineering Nth Stachey 1.3.19  
 Stormwater Joe Hilde 1.3.19

NOTE TO CONTRACTORS  
 Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer in the state of Kansas. No work shall be performed by the Contractor without written authorization by City Engineering. All Construction and Materials shall comply with the current City of Wichita Specifications and Standards and Special Provisions. (on file and available at Wichita.gov).

An approved copy of these plans signed by City staff are required on-site.

JANUARY 2019

ENTIRE SHEET

PPD TITLE SHEET

womble co.  
12-14 mil fbe & 30 mil lilly steel casing 20" steel od casing

romal industries 8" grip ring spacers

north american specialty products restrained c-900 flex-coupling



Date	Description
10/25/2018	PCO 001
11/14/2018	PCO 002
01/07/2019	PCO 005

TEXTRON AVIATION  
WEST CAMPUS - C3  
BRITE WORKS

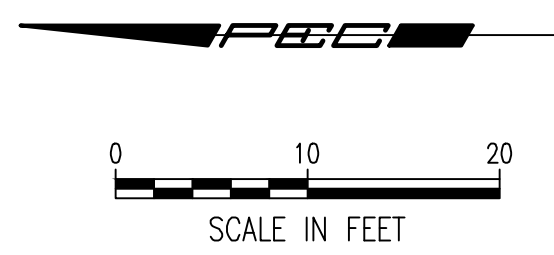
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DATE: 10/12/2018  
DRAWN: RFT  
CHECKED: DAR

CONSTRUCTION DOCUMENTS  
PPD TITLE SHEET

C-201  
WEST CAMPUS - C3

Save: 01-02-2019 11:07:53 AM by: SAO  
 U:\Wichita-Local\2017\178003\037\178003-037-C-201-PPD TITLE SHEET

MABCD REVIEWER:



see  
revision  
page

BUILDING C-3  
FF=1310.84  
(AVERAGED AT OH DOOR)

N- 1,669,058.3312  
E- 1,624,767.1348  
Install Sanitary Lift Station  
Top EL=1310.90  
Ref. Mech.

N- 1,669,037.6964  
E- 1,624,767.1792  
Mud-Oil Separator  
Ref. Mech.

N- 1,669,006.3314  
E- 1,624,767.2503  
STA. 0+00.0, SWS LINE NO. 1  
Install Diversion Manhole on  
Existing 12" RCP.  
Top EL=1310.75  
In=1308.0± (E)  
Out=1308.0± (W)  
Out=1308.0± (N)



Δ	Date	Description
1	10/25/2018	PCO 001
2	11/14/2018	PCO 002
5	01/07/2019	PCO 005

**TEXTRON AVIATION**  
WEST CAMPUS - C3  
BRITE WORKS

JOB NUMBER: 178003-037  
DATE: 10/12/2018  
DRAWN: RFT  
CHECKED: DAR

CONSTRUCTION DOCUMENTS

SWS LINE NO. 1

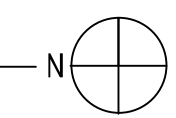
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WEST CAMPUS - C3

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ENTIRE SHEET

**A SWS LINE NO. 1**

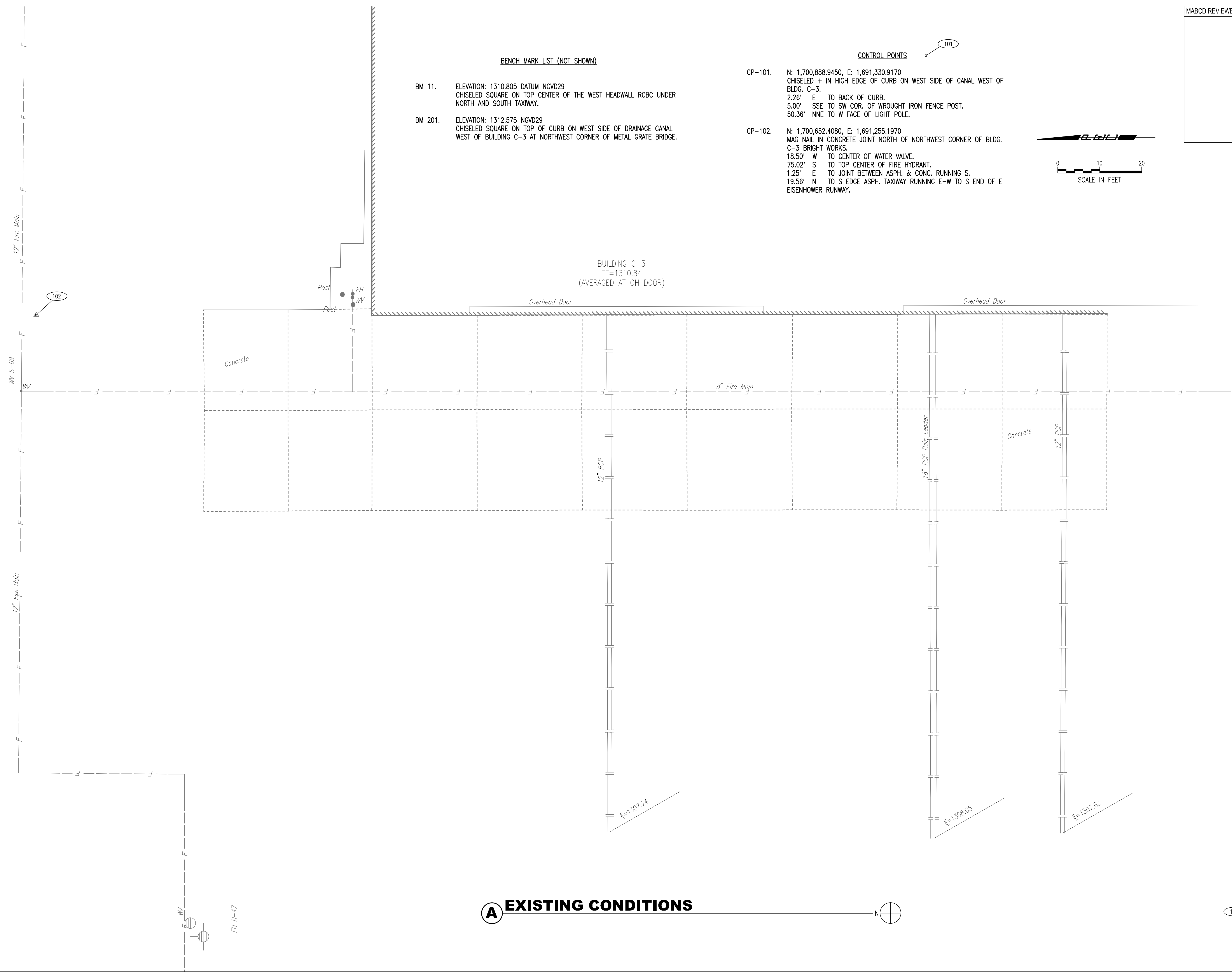
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**BENCH MARK LIST (NOT SHOWN)**

- BM 11. ELEVATION: 1310.805 DATUM NGVD29  
CHISELED SQUARE ON TOP CENTER OF THE WEST HEADWALL RCBC UNDER NORTH AND SOUTH TAXIWAY.
- BM 201. ELEVATION: 1312.575 NGVD29  
CHISELED SQUARE ON TOP OF CURB ON WEST SIDE OF DRAINAGE CANAL WEST OF BUILDING C-3 AT NORTHWEST CORNER OF METAL GRATE BRIDGE.

**CONTROL POINTS**

- CP-101. N: 1,700,888.9450, E: 1,691,330.9170  
CHISELED + IN HIGH EDGE OF CURB ON WEST SIDE OF CANAL WEST OF BLDG. C-3.  
2.26' E TO BACK OF CURB.  
5.00' SSE TO SW COR. OF WROUGHT IRON FENCE POST.  
50.36' NNE TO W FACE OF LIGHT POLE.
- CP-102. N: 1,700,652.4080, E: 1,691,255.1970  
MAG NAIL IN CONCRETE JOINT NORTH OF NORTHWEST CORNER OF BLDG. C-3 BRIGHT WORKS.  
18.50' W TO CENTER OF WATER VALVE.  
75.02' S TO TOP CENTER OF FIRE HYDRANT.  
1.25' E TO JOINT BETWEEN ASPH. & CONC. RUNNING S.  
19.56' N TO S EDGE ASPH. TAXIWAY RUNNING E-W TO S END OF E EISENHOWER RUNWAY.



MABCD REVIEWER:

BUILDING C-3  
 FF=1310.84  
 (AVERAGED AT OH DOOR)

**A EXISTING CONDITIONS**



Δ	Date	Description
1	10/25/2018	PCO 001
2	11/14/2018	PCO 002
5	01/07/2019	PCO 005

**TEXTRON AVIATION**  
 WEST CAMPUS - C3  
 BRITE WORKS

JOB NUMBER: 178003-037  
 DATE: 10/12/2018  
 DRAWN: RFT  
 CHECKED: DAR

CONSTRUCTION DOCUMENTS  
 EXISTING CONDITIONS

**C-101**  
 WEST CAMPUS - C3

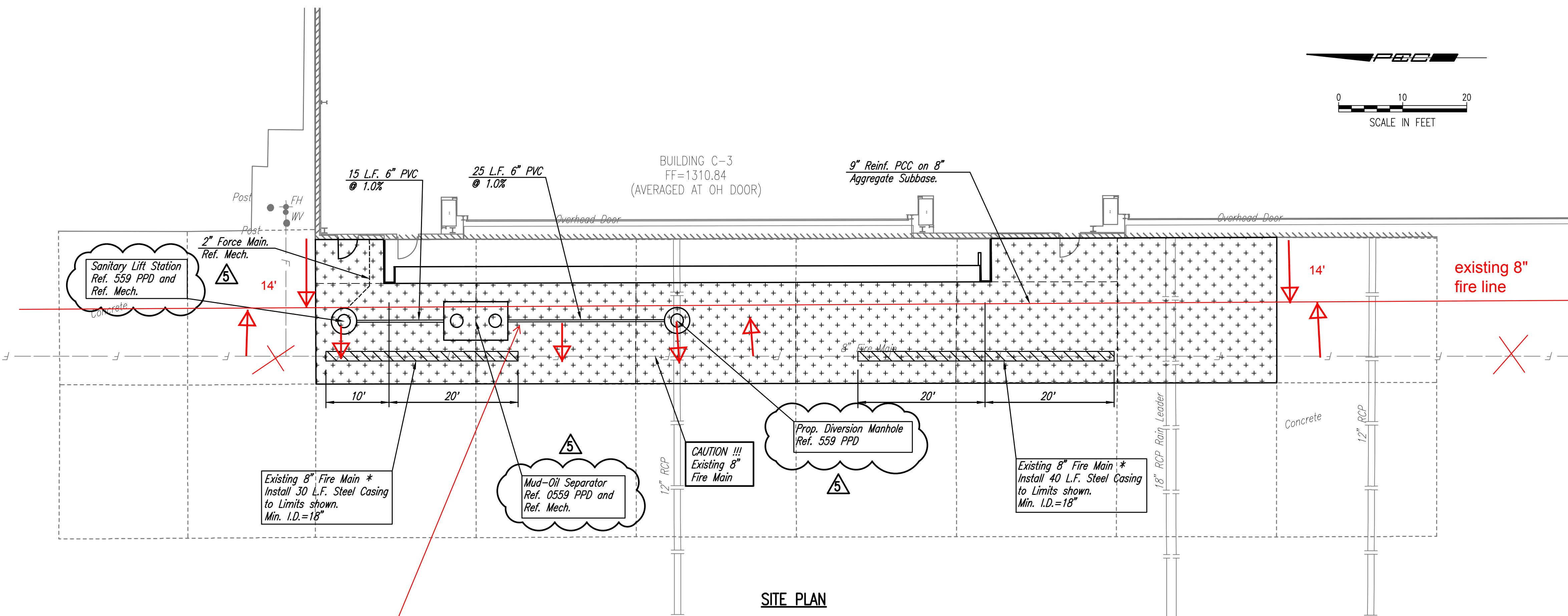
MABCD REVIEWER:



Date	Description
10/25/2018	PCO 001
11/14/2018	PCO 002
01/07/2019	PCO 005

**CIVIL GENERAL NOTES**

1. THE BURIED UTILITIES AS LOCATED ON THE PLANS ARE APPROXIMATE LOCATIONS ONLY. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE OWNER.
2. WHERE THE IMPROVEMENTS CROSS EXISTING PUBLIC OR PRIVATE UTILITIES, THE CONTRACTOR SHALL PROVIDE THE MATERIAL AND MEANS TO PROTECT AND SUPPORT SAID UTILITIES DURING CONSTRUCTION TO THE SATISFACTION OF THE OWNER.
3. THE CONTRACTOR SHALL EXPOSE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITIES THAT ARE WITHIN THE LIMITS OF CONSTRUCTION. THE UTILITY LOCATES SHALL BE PERFORMED PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER, FOR RESOLUTION.
4. WRITTEN REQUEST TO THE OWNER WILL BE REQUIRED SEVEN (7) CALENDAR DAYS PRIOR TO A SCHEDULED UTILITY OUTAGE. THE FIRE DEPARTMENT MUST BE NOTIFIED OF ANY FIRE HYDRANTS OR WATER MAINS TAKEN OUT OF SERVICE.
5. THE CONTRACTOR SHALL ADJUST ALL MANHOLE TOPS, VALVE BOXES, ETC. TO FINAL GRADES.
6. CONTRACTOR SHALL MAINTAIN UNINTERRUPTED UTILITY SERVICE TO ADJACENT FACILITIES DURING CONSTRUCTION.
7. CONTRACTOR SHALL SAW CUT NEAT ALL EXISTING CONCRETE AND ASPHALT WHERE IT ABUTS NEW PAVEMENT/SIDEWALK AND WHERE EXISTING IS TO REMAIN IN PLACE.
8. THE SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AS INDICATED ON THE GRADING PLAN. UNDER NO CIRCUMSTANCES WILL PONDING BE ALLOWED. THE CONTRACTOR SHALL REPORT ANY GRADING DISCREPANCIES TO THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION OF PAVEMENT. CURB AND GUTTERS SHALL BE FLUSHED TO CHECK PONDING POINTS PRIOR TO PLACEMENT OF PAVEMENT.
9. PROVIDE 3/4" SEALED EXPANSION JOINT AT ABUTMENT TO STRUCTURE MANHOLE/INLET TOPS.

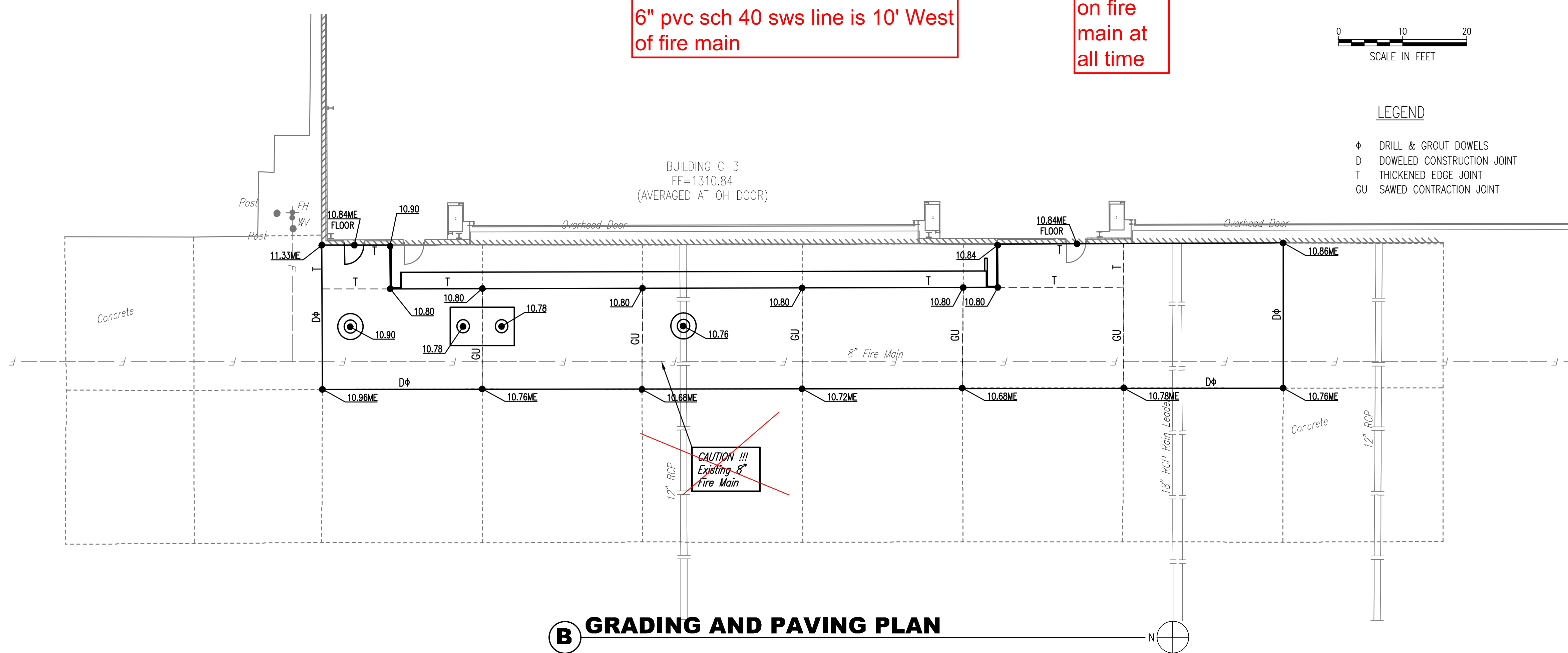


**A SITE PLAN**

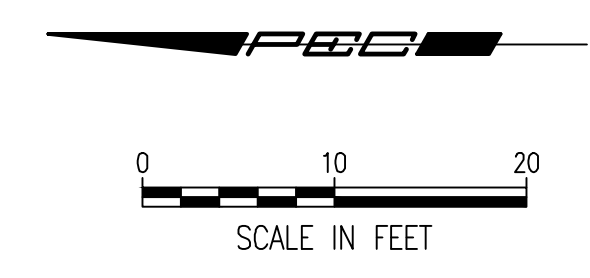
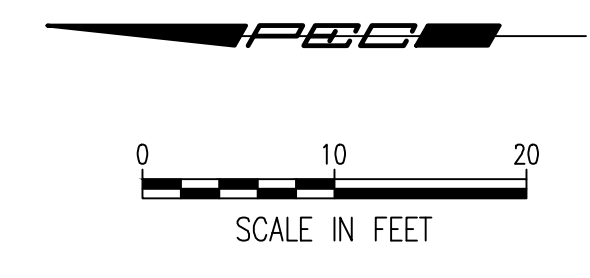
sanitary lift station  
 mud-oil separator  
 diversion manhole  
 and whole line is 10'  
 West of fire line

8" fire main is 14' West of building  
 6" pvc sch 40 sws line is 10' West  
 of fire main

150 psi  
 on fire  
 main at  
 all time



**B GRADING AND PAVING PLAN**



**LEGEND**

⊕	DRILL & GROUT DOWELS
D	DOWELED CONSTRUCTION JOINT
T	THICKENED EDGE JOINT
GU	SAWED CONTRACTION JOINT

**AS BUILTS**

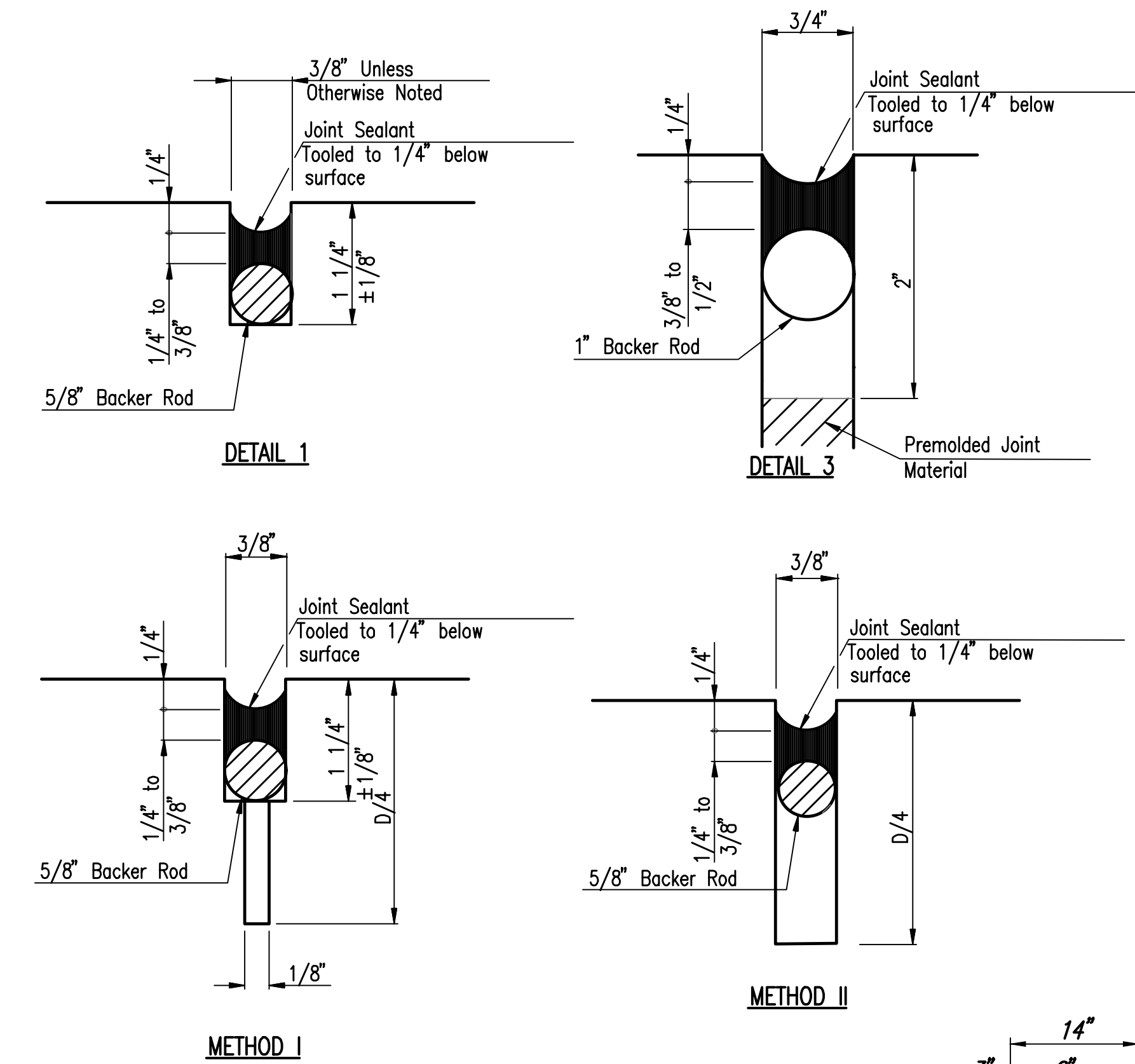
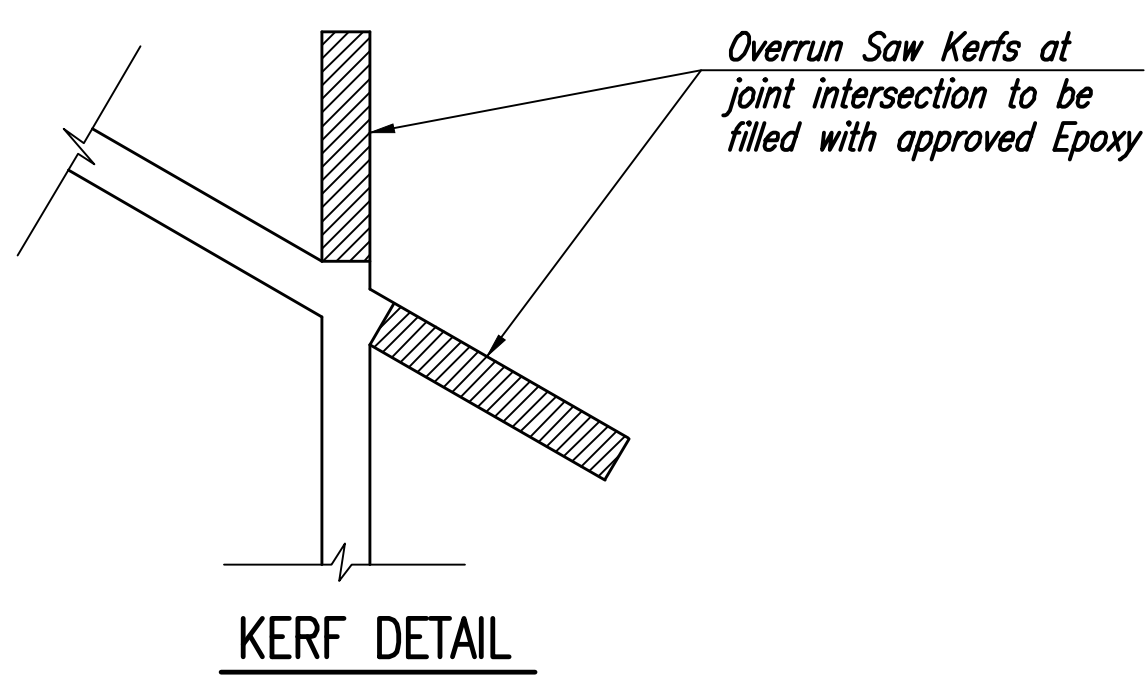
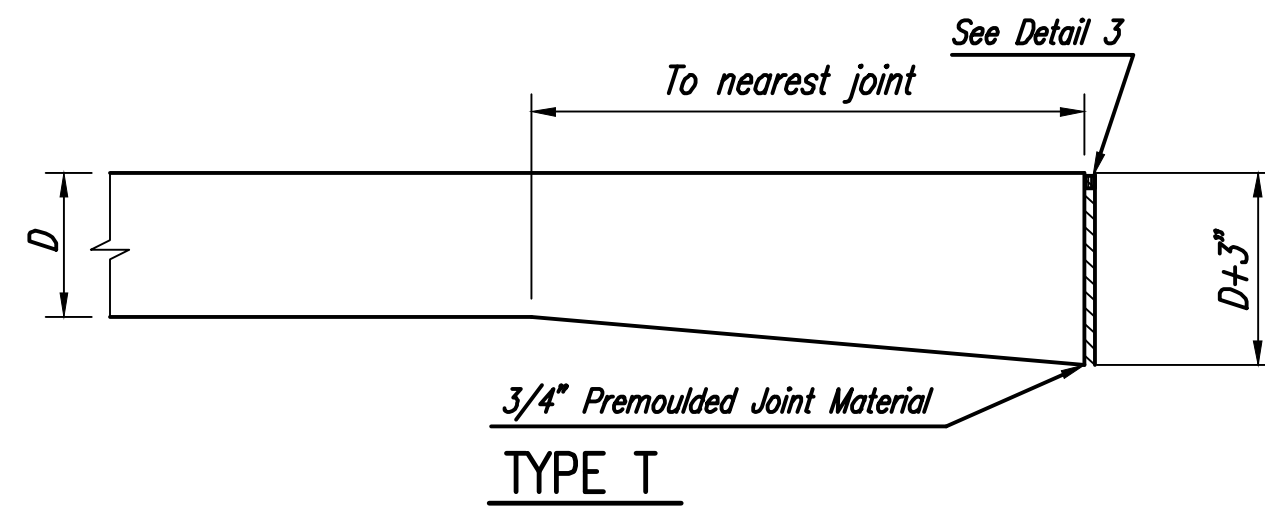
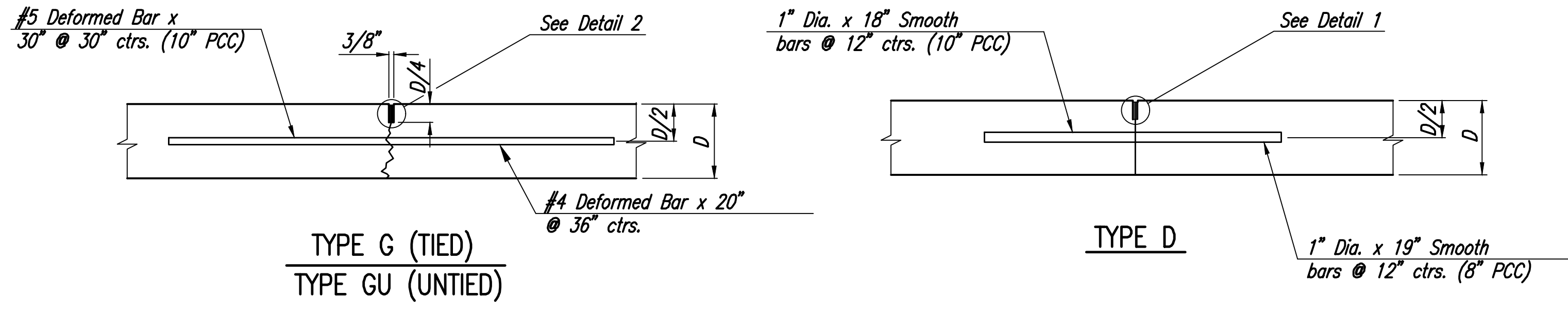
**KEMILLER**  
 ENGINEERING PA  
 117 E. Lewis,  
 Wichita, KS 67202 (316)264-0242

JOB NUMBER: 178003-037  
 DATE: 10/12/2018  
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 CHECKED: DAR

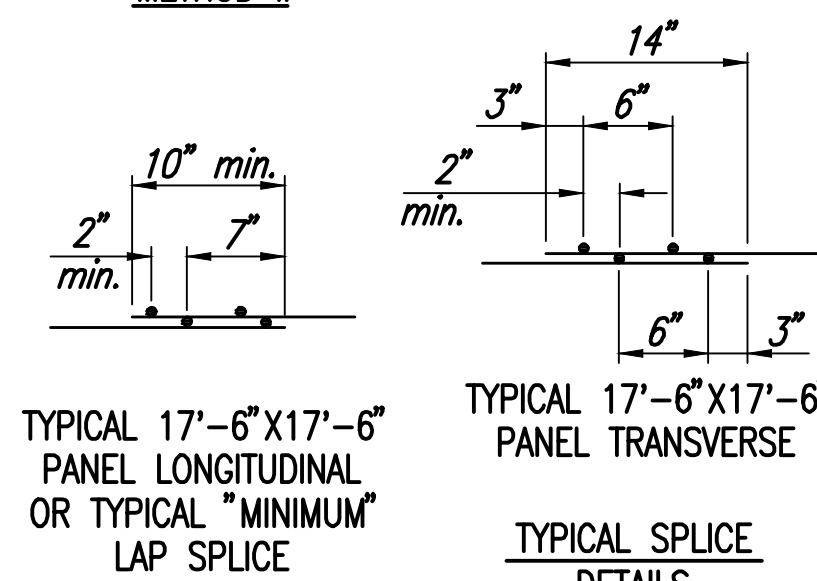
CONSTRUCTION DOCUMENTS

SITE, GRADING AND  
 PAVING PLAN

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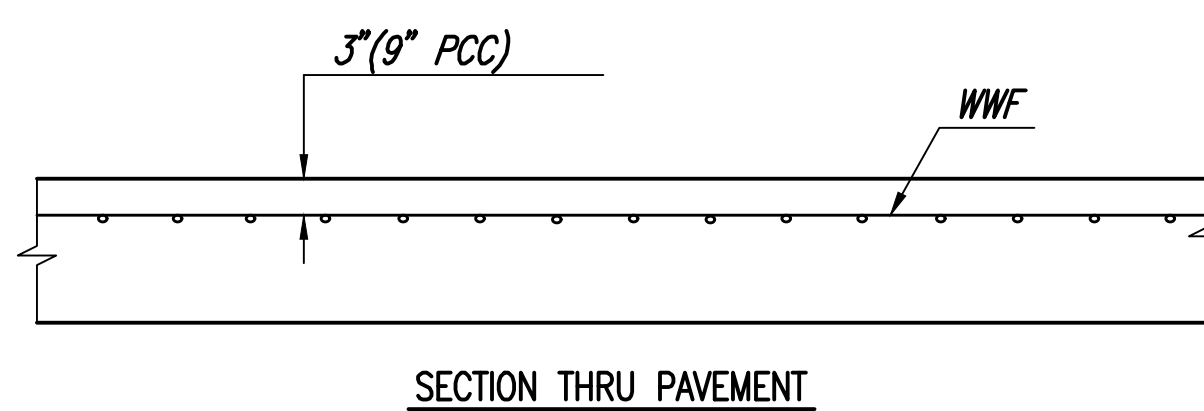
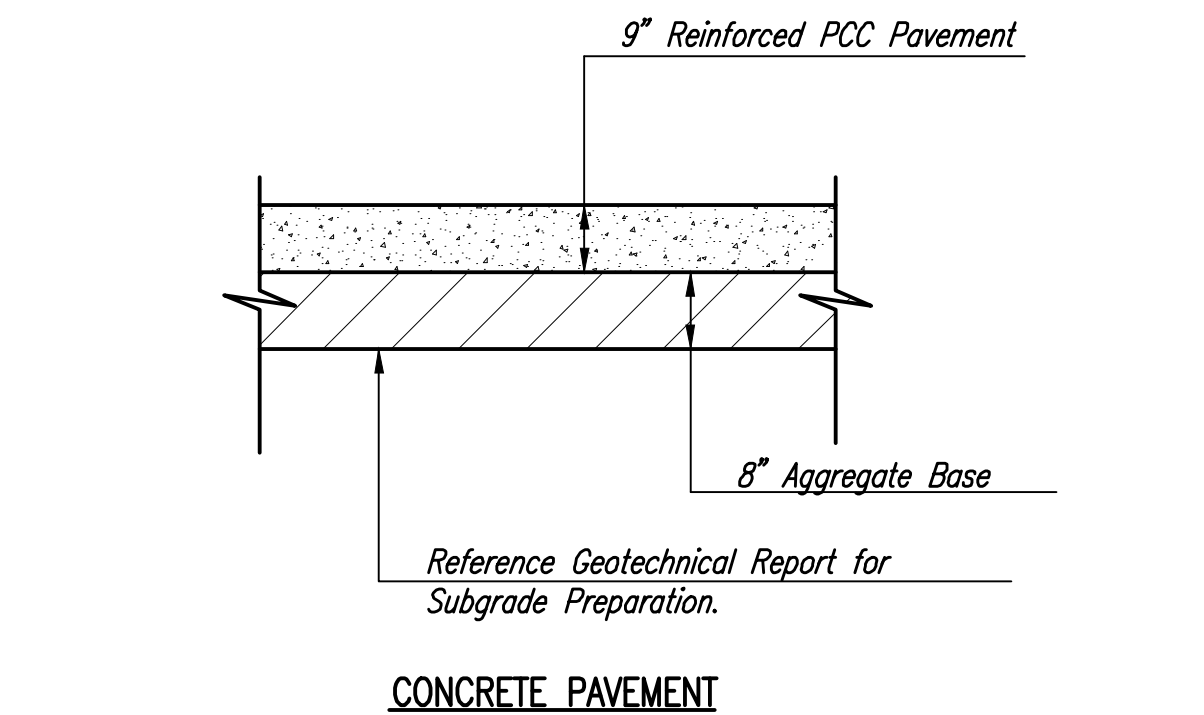


DETAIL 2  
JOINT SEAL DETAILS

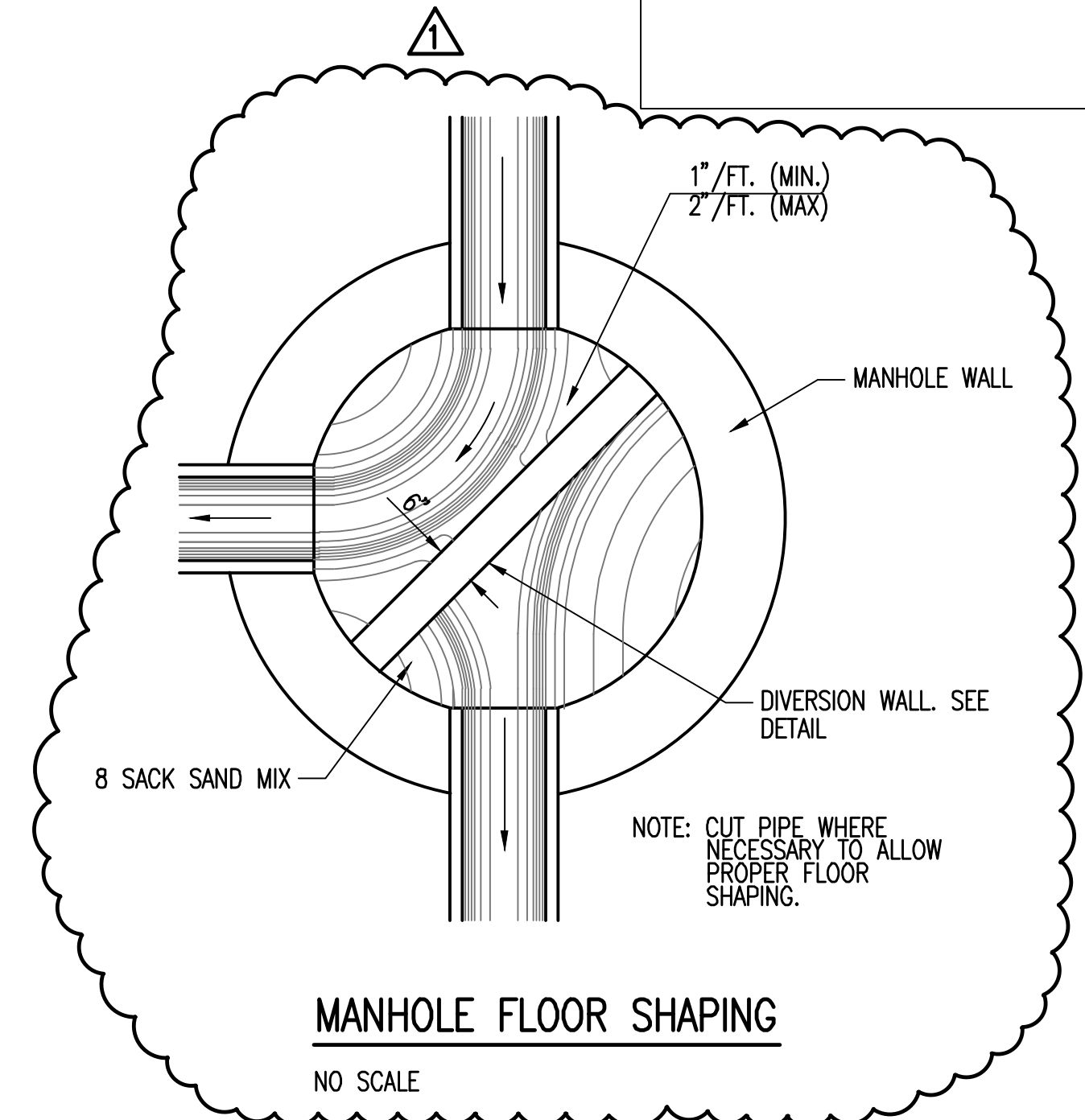
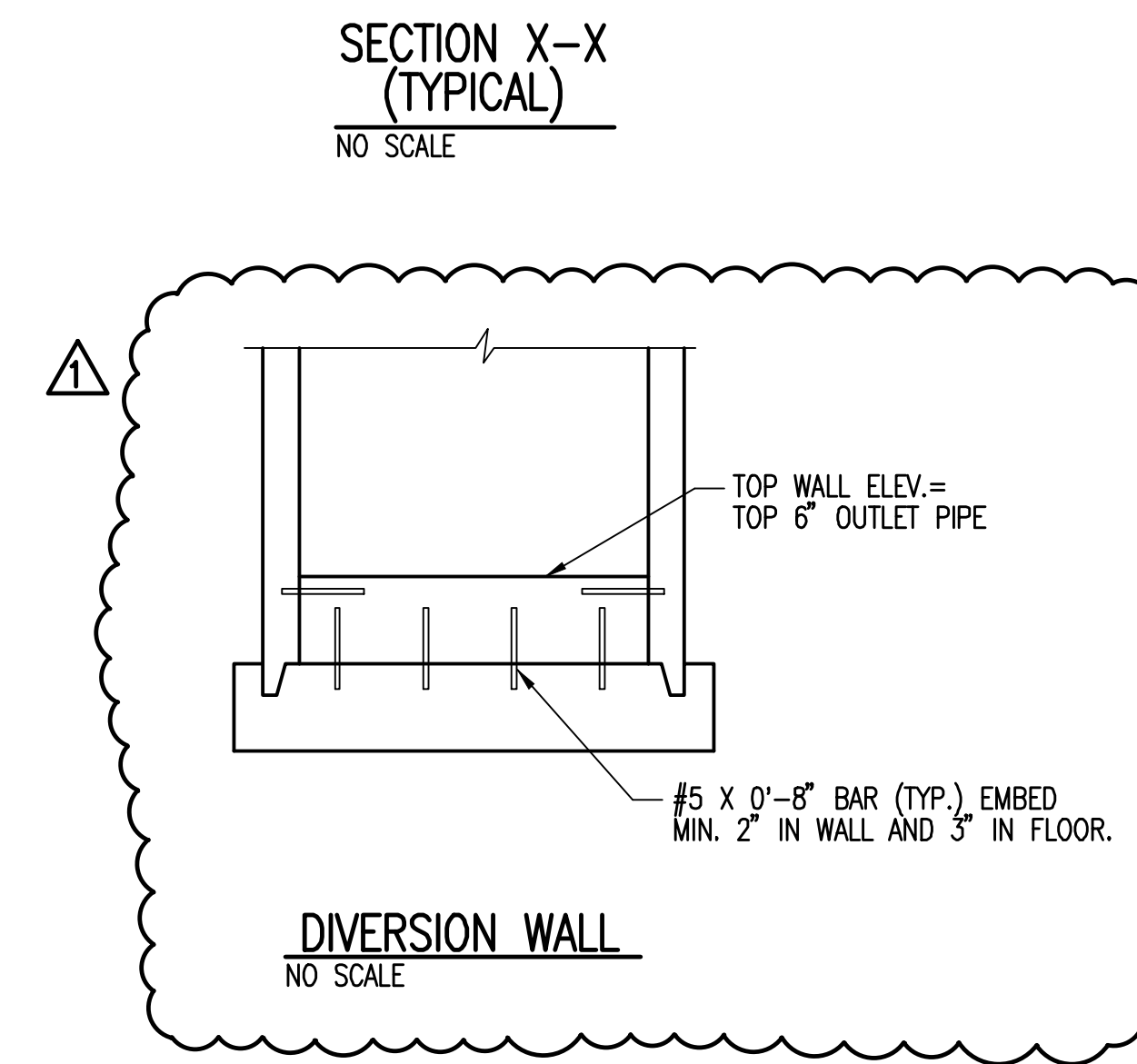
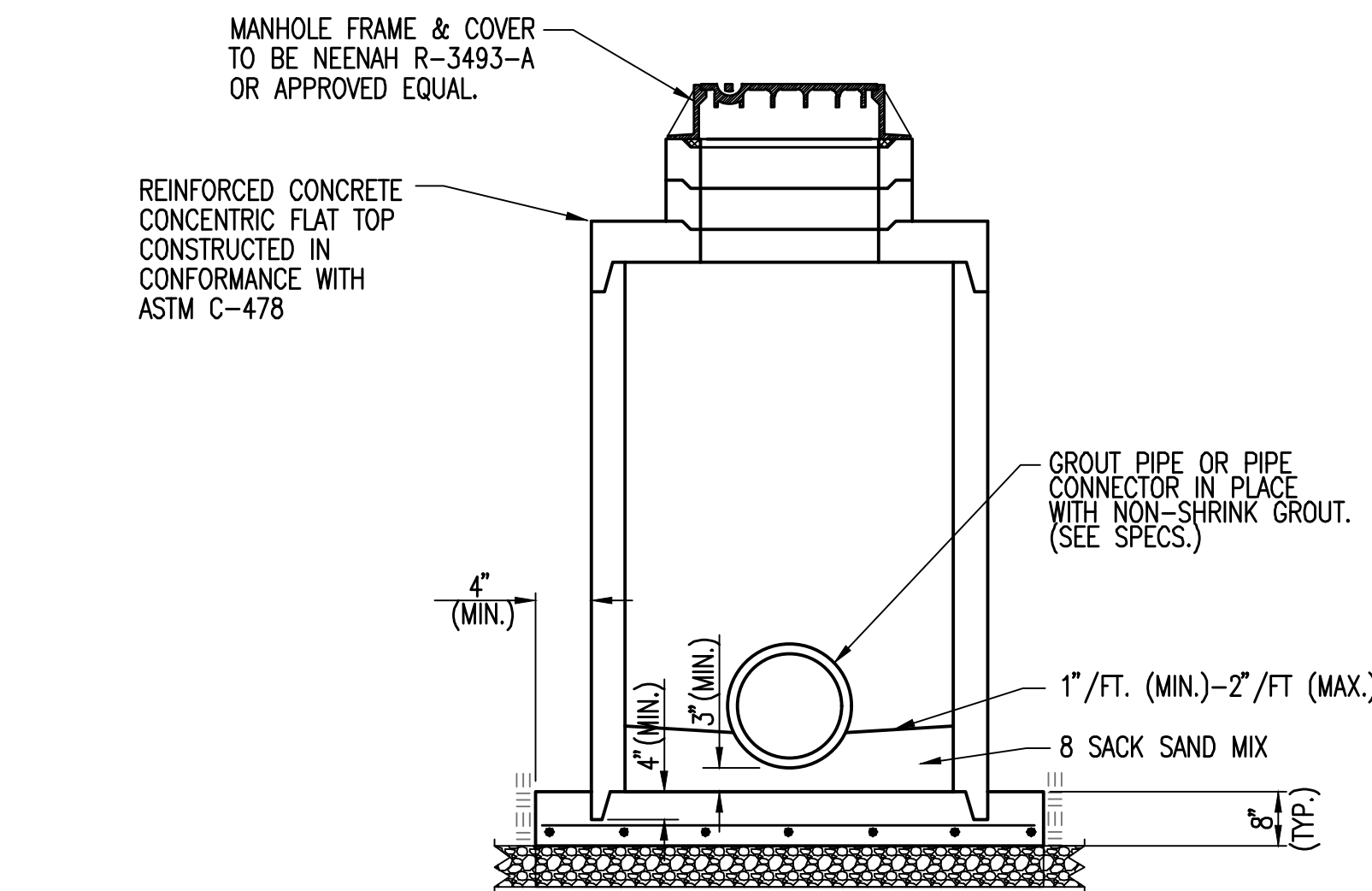
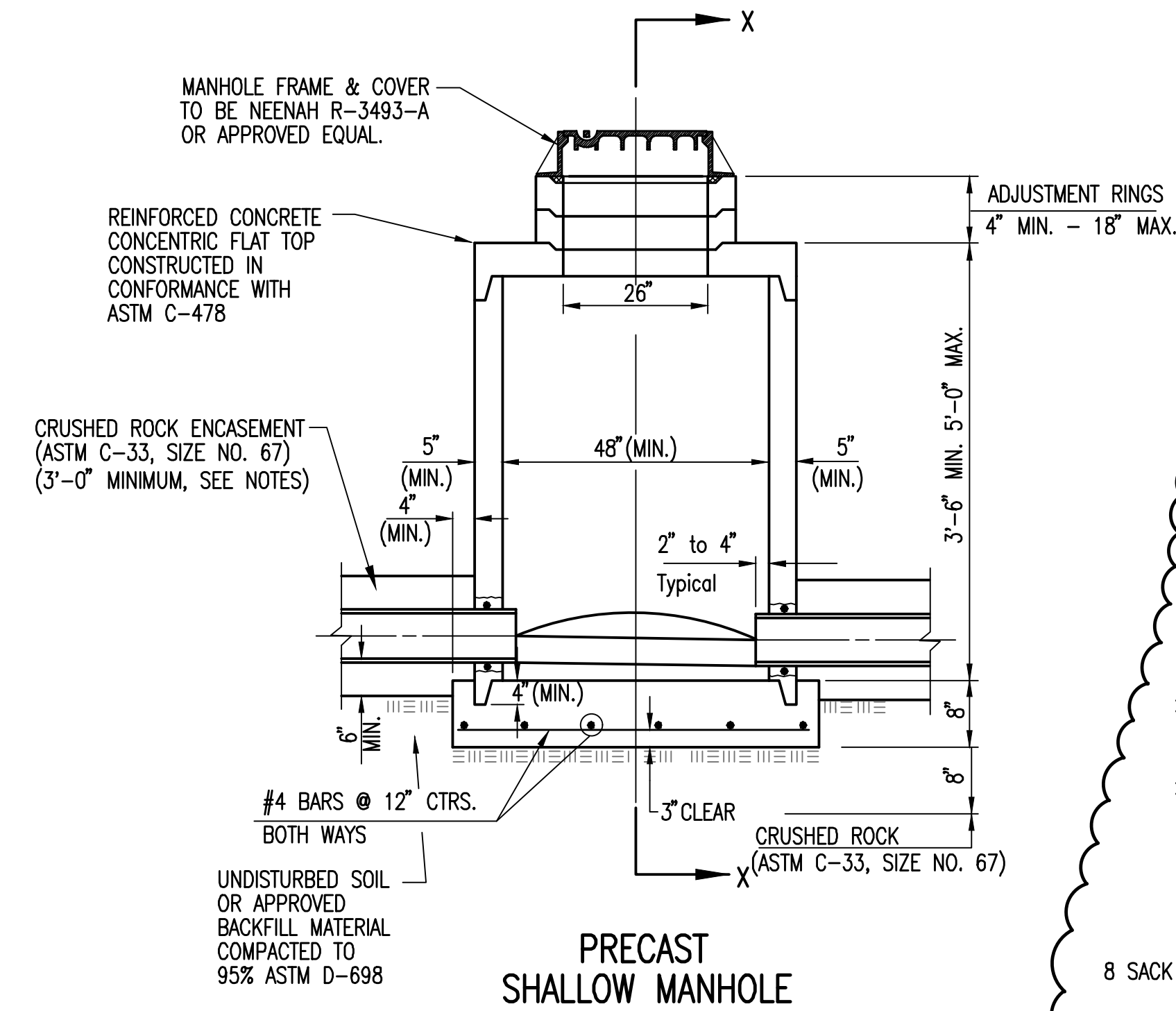
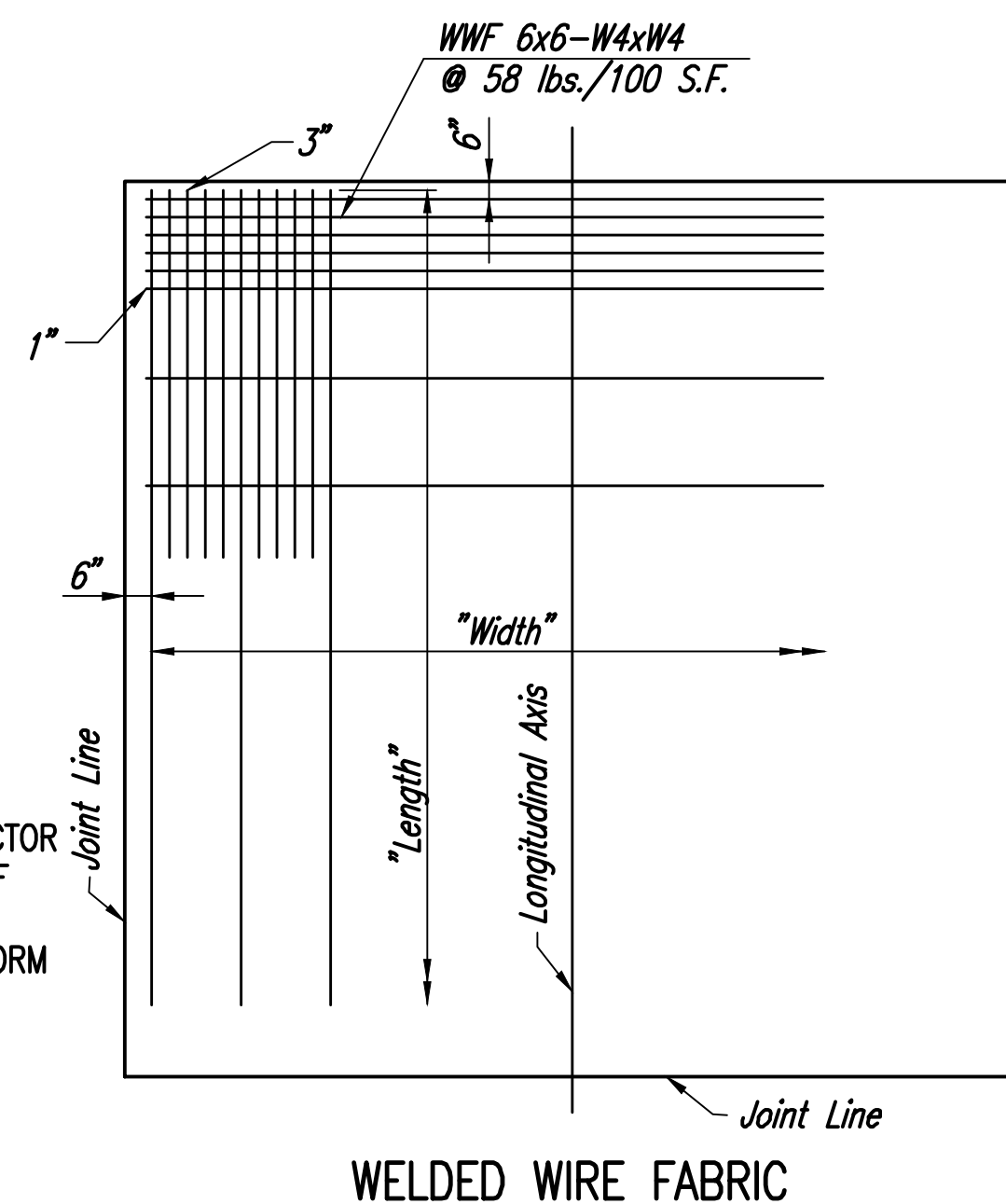


REINFORCING DETAILS

REINFORCING FABRIC SHALL BE FURNISHED IN SHEETS (SUGGESTED SIZE 8'-9" WIDE X 17'-0" LONG OR 8'-9" WIDE X 9'-1" LONG). THE CONTRACTOR MAY PROVIDE A DIFFERENT PATTERN OF FABRIC AS LONG AS A MINIMUM OF 0.08 SQ. IN./ FT. OF REINFORCING IS PROVIDED IN EACH DIRECTION. WELDED WIRE FABRIC SHALL BE CUT IN THE FIELD AS REQUIRED TO CONFORM TO THE SHAPE OF THE PANEL TO BE REINFORCED.



REINFORCING FOR OTHER THAN RECTANGULAR PANELS SHALL BE THE SAME AS DETAILED ABOVE: CUT TO THE APPROPRIATE SHAPE & OVERLAP SPLICE AS REQUIRED.



GENERAL NOTES

- LOADING: 727-200 AIRCRAFT WITH 48.8K WHEEL LOADING.
- CLASS "I" CONCRETE SHALL BE USED THROUGHOUT. BEVEL ALL EXPOSED CORNERS WITH 3/4" TRIANGULAR MOULDING.
- IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
- STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
- ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
- TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
- MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5 FOOT INSIDE DIAMETER (MIN.).
- MANHOLES WITH PRECAST BASES MAY BE USED AT THE CONTRACTORS OPTION. THESE MANHOLES SHALL HAVE AN 8" MINIMUM BASE THICKNESS AND SHALL BE PLACED ON AN 8" MIN. CRUSHED ROCK BASE. PIPES SHALL BE ENCASED WITH CRUSHED ROCK TO AT LEAST 3 FEET FROM THE MANHOLE WALL.
- CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN MANHOLE WALL SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.
- THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE MANHOLE WALL.
- MANHOLE INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE MANHOLE WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
- MANHOLE FRAME AND COVER TO BE NEENAH R-3493-A, OR APPROVED EQUAL.

PRECAST SUPPLIER SHALL PROVIDE SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CASTING STRUCTURE.



Date	Description
10/25/2018	PCO 001
11/14/2018	PCO 002
01/07/2019	PCO 005

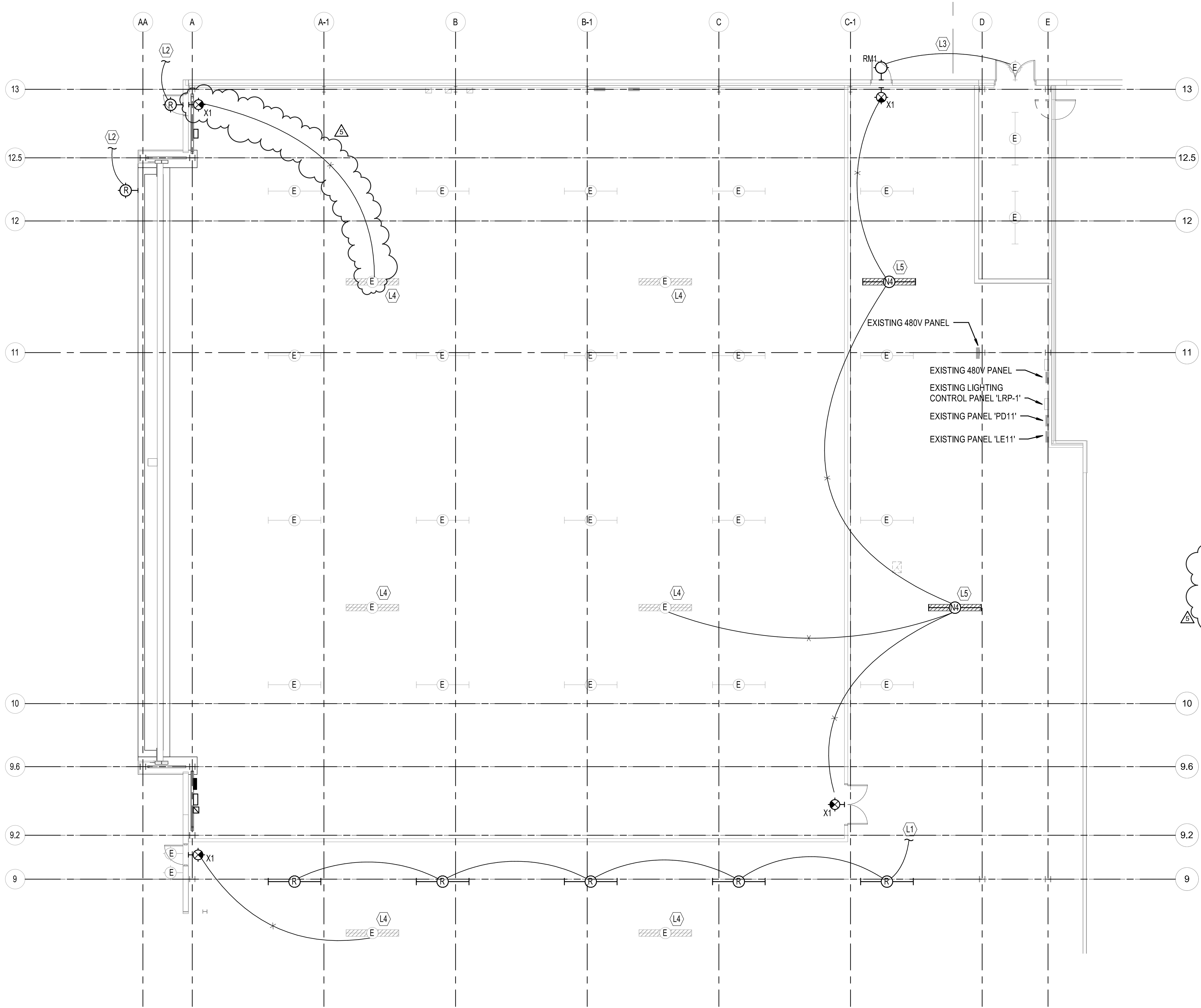
JOB NUMBER: 178003-037  
DATE: 10/12/2018  
DRAWN: RFT  
CHECKED: DAR

CONSTRUCTION DOCUMENTS

PAVEMENT AND SWS MH DETAILS



1/8/2019 9:07:24 AM C:\Users\sean.gerety\Documents\178003-037-MASTER ELEC-R17\_Sean\_Gerety@pec1.com.rvt



**A ELECTRICAL LIGHTING FLOOR PLAN**  
 0" 8" 16" 24" 1/8" = 1'-0"  
 PLAN NORTH

MABCD REVIEWER:

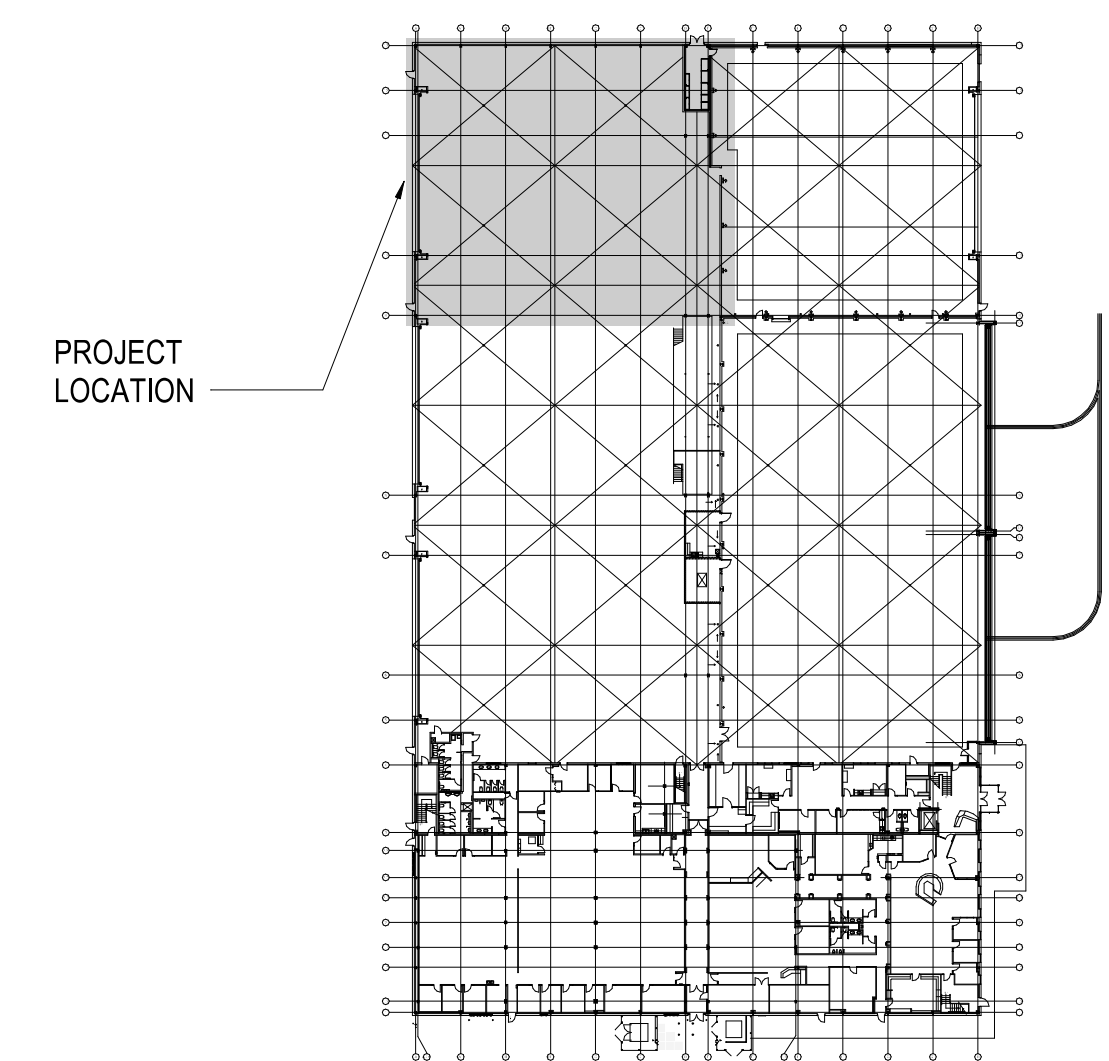
**LIGHTING PLAN NOTES:**

- BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. A MAXIMUM OF THREE CIRCUITS (MAXIMUM OF THREE PHASE CONDUCTORS) MAY BE GROUPED IN A SINGLE CONDUIT. WHERE MULTIPLE CIRCUITS ARE LOCATED IN THE SAME RACEWAY, JUNCTION BOX OR ENCLOSURE, NEUTRALS SHALL BE MARKED OR LABELED TO INDICATE WHICH CIRCUIT THEY ARE ASSOCIATED WITH. SEE SPECIFICATION SECTION "LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL INFORMATION.
- A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
- ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
- ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHT FIXTURE LOCATIONS. VERIFY ALL DISCREPANCIES WITH ARCHITECT PRIOR TO ROUGH-IN.

**KEYED NOTES:**

- L1 RELOCATED FIXTURES TO BE RECONNECTED TO EXISTING LIGHTING CIRCUIT SERVING SPACE. EXTEND CONDUIT AND WIRING AS REQUIRED.
- L2 CONNECT TO EXISTING BRANCH CIRCUIT CURRENTLY SERVING FIXTURE.
- L3 EXTEND EXISTING EXTERIOR BRANCH CIRCUIT TO SERVE INDICATED FIXTURE.
- L4 EXISTING EMERGENCY LIGHTING TO REMAIN.
- L5 CONNECT NEW STRIP LIGHT TO EXISTING EMERGENCY CIRCUIT. BOTTOM OF FIXTURE TO MATCH EXISTING.

EMERGENCY LIGHTING FACILITIES ARE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1-FOOT CANDLE (1 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOT CANDLE (1 LUX) MEASURED AT FLOOR LEVEL.



**178003-037 KEYPLAN**



#	Date	Description
4	12/11/2018	PCO 004
5	01/08/2019	PCO 005

JOB NUMBER: 178003-037  
 DATE: 10/12/2018  
 DRAWN: SPG  
 CHECKED: DCG

CONSTRUCTION DOCUMENTS  
 ELECTRICAL LIGHTING FLOOR PLAN