

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PROPOSED
HIGHWAY PLANS**

F.A.P. 320 (IL 121)
SECTION D6 PUMP STATION 2019
BUILDING REHABILITATION
LOGAN COUNTY

C-30-011-19

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	D6 PUMP STATION 2019	LOGAN	8	1
ILLINOIS CONTRACT NO. 46528				

D-6



LOCATION OF SECTION INDICATED THUS: - - -

PLANS PREPARED BY:

**KLINGNER
& ASSOCIATES, P.C.**
Engineers • Architects • Surveyors

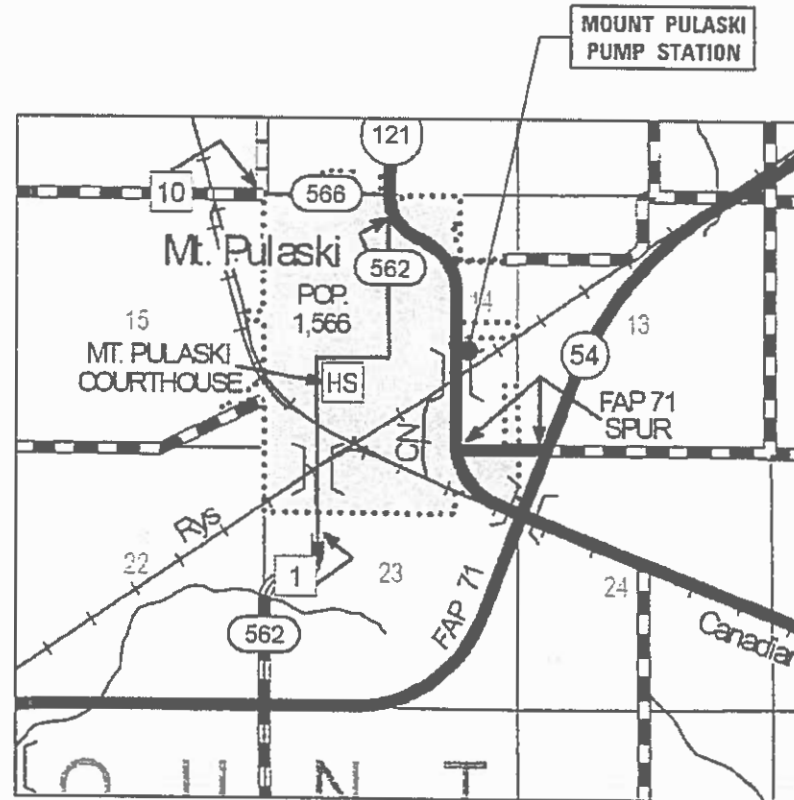
Quincy, Illinois
616 North 24th Street
217.223.3670
www.klingner.com
Colesburg, IA
Pella, IA
Hannibal, MO
Columbia, MO
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

INDEX OF SHEETS

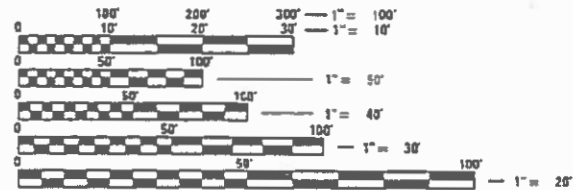
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- 4 MT. PULASKI PUMP STATION BUILDING DEMO PLANS
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- 7 MT. PULASKI PUMP STATION BUILDING ELEVATIONS
- 8 MT. PULASKI PUMP STATION STRUCTURAL DETAILS

HIGHWAY STANDARDS

- 000C01-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH



LOGAN COUNTY
GROSS LENGTH = NA
NET LENGTH = NA

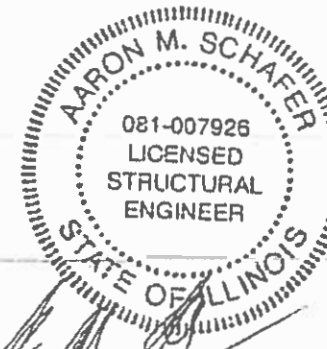


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT MANAGER: MICHAEL IRWIN, PE 217-524-7165
SQUAD LEADER: TIMOTHY SHARP 217-524-9160

CONTRACT NO. 46528



AARON M. SCHAFER
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS NO. 081-007926
LICENSE EXPIRES NOVEMBER 30, 2020

10/28/2019
DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 6 2019

[Signature] REGIONAL ENGINEER

[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 3

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GENERAL NOTES

- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD, AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS.
- THE CONTRACTOR SHALL SECURE ANY LOCAL, STATE, COUNTY PERMITS NEEDED FOR THIS PROJECT.
- THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION FOR THE PROJECT IN A MANNER AND SEQUENCE THAT ARE BASED ON ACCEPTED INDUSTRY STANDARDS THAT RECOGNIZE THE INTERACTION OF THE COMPONENTS THAT COMPRISE THE STRUCTURE, WITHOUT CAUSING DISTRESS, UNANTICIPATED MOVEMENTS OR IRREGULAR LOAD PATHS AS A RESULT OF THE CONSTRUCTION MEANS AND METHODS EMPLOYED.
- CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOAD. THE CONTRACTOR IS RESPONSIBLE FOR ALL DESIGN REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT USED IN CONSTRUCTING THIS PROJECT. SHORING AND RESHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- UTILITIES - LOCATIONS / INFORMATION ON PLANS
ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

* AMEREN ILLINOIS
*
*
*
*
MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *.
NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- ALL CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS AND SPECIAL PROVISIONS CAREFULLY, VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO AGREEING TO PERFORM THE WORK. FAILURE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE CONTRACTOR FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE NOT TO DISRUPT EXISTING PUMP STATION BUILDING OPERATIONS.
- DRAWINGS ARE NOT TO SCALE, UNLESS NOTED OTHERWISE.
- THE DEPARTMENT RESERVES THE RIGHT TO NOTIFY THE CONTRACTOR TO CHANGE THE CONSTRUCTION SCHEDULE IF NEEDED TO ENSURE PROPER DEWATERING NEEDS FOR THE DEPARTMENT. ADDITIONAL COMPENSATION MAY BE WARRANTED.
- THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES, GRADUATES ARE WELL TRAINED AND READY TO BECOME PRODUCTIVE ENTRY LEVEL CONSTRUCTION WORKERS
- DURING DEMOLITION AND CONSTRUCTION, THE CONTRACTOR SHALL USE TRAFFIC CONTROL AND PROTECTION STANDARD 701201, AS DIRECTED BY THE ENGINEER.
- SAMPLES WERE COLLECTED FOR ASBESTOS AND NO ASBESTOS WAS DETECTED.
- SAMPLES WERE COLLECTED FOR LEAD PAINT AND ONLY THE CEILING I-BEAMS CONTAIN LEAD PAINT.
- REMOVE/REINSTALL EXISTING CONDUIT AND ELECTRICAL EQUIPMENT LOCATED ON ROOF AND UPPER WALLS AS NECESSARY TO FACILITATE BUILDING MODIFICATIONS.

STRUCTURAL NOTES

- DESIGN LOADS:**
- OCCUPANCY CATEGORY II
 - ROOF LOADS
 - DEAD LOAD = 100 PSF (SELF WEIGHT)
 - * LIVE LOAD = 60 PSF
 - ROOF SNOW LOAD
 - * GROUND SNOW LOAD, PG = 20 PSF
- * DESIGN IS BASED ON MOST CRITICAL EFFECT OF ROOF LIVE LOAD OR ROOF SNOW LOAD.
- WIND LOADING
 - BASIC WIND SPEED (3 SECOND GUST) = 115 MPH
 - EXPOSURE CATEGORY B
 - IMPORTANCE FACTOR, IW = 1.0
 - DIRECTIONAL FACTOR, KD = 0.85
 - TOPOGRAPHIC EFFECT, KZ = 1.0
 - INTERNAL PRESSURE COEFFICIENT, GCPI = ±0.55 (PARTIALLY ENCLOSED)
 - SEISMIC LOADING - EQUIVALENT LATERAL FORCE PROCEDURE
 - IMPORTANCE FACTOR, IE = 1.0
 - SITE CLASS D
 - SDS = 0.199 (SS = 18.7%)
 - SD1 = 0.098 (S1 = 9.8%)
 - SEISMIC DESIGN CATEGORY B
 - BASE SHEAR
 - RESISTING SYSTEM - ORDINARY REINFORCED MASONRY SHEAR WALLS
 - RESPONSE COEFFICIENT, R = 2
 - DEFLECTION AMPLIFICATION FACTOR, CD = 1.75
 - SYSTEM OVERSTRENGTH FACTOR, Q0 = 2.5
 - BASE SHEAR, V = 0.099W

STRUCTURAL STEEL

- DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC SPECIFICATIONS AND STANDARD CODE OF PRACTICE.
- STEEL FABRICATION AND ERECTION SHALL FOLLOW OSHA REQUIRMENTS.
- STRUCTURAL STEEL:
 - STEEL ANGLES, RODS, AND PLATES - ASTM A36 (Fy=36 ksi)
 - WASHERS - ASTM F436
 - NUTS - ASTM A563
 - ANCHOR BOLTS - ASTM F1554 GRADE 36 (Fy=36 ksi)
- ALL STEEL SHALL BE HOT DIPPED GALVANIZED.
- REPAIR GALVANIZED SURFACES PER ASTM A780.
- ALL STEEL SHALL BE FURNISHED IN ACCORDANCE WITH ARTICLE 505 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- EPOXY ANCHORS SHALL FOLLOW ARTICLE 584 OF THE STANDARD SPECIFICATIONS.

MASONRY

- ALL MASONRY SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530/ASCE 5/TMS 402) AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TMS 602).
- GROUT TO FILL CORES SHALL BE ASTM C476, COARSE GROUT (3/8" MAXIMUM AGGREGATE) WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.
- CONCRETE MASONRY UNITS SHALL BE UNITS CONFORMING TO ASTM C90, GRADE N, TYPE 1, NORMAL WEIGHT (DENSITY OF UNIT=135 pcf), MIN. BLOCK COMPRESSIVE STRENGTH = 2400 psi, SPECIFIED DESIGN STRENGTH OF MASONRY, f'm=1500.
- ASTM C270 TYPE "S" MORTAR WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI SHALL BE USED FOR ALL MASONRY.
- REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
- ALL CORES WITH REINFORCEMENT SHALL BE FILLED SOLID WITH GROUT. PLACE REINFORCEMENT BARS BEFORE GROUTING. CONSOLIDATE GROUT BY MECHANICAL VIBRATION.
- PROPERLY SECURE VERTICAL REINFORCEMENT BARS TO ENSURE BAR IS LOCATED IN THE CENTER OF THE CMU CELL.
- ALL CMU SHALL BE TEMPORARILY BRACED DURING CONSTRUCTION. TEMPORARY BRACING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. COST SHALL BE INCLUDED IN "MASONRY WALL CONSTRUCTION". THE CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH REPAIRS RESULTING FROM IMPROPER OR INSUFFICIENT BRACING.
- THE COST OF THE EXISITNG BRICK MASONRY DEMOLITION SHALL BE INCLUDED IN "REMOVAL OF EXISTING STRUCTURES".

PRECAST STRUCTURAL CONCRETE

- PRECAST STRUCTURAL CONCRETE CONSTRUCTION SHALL CONSIST OF THE DESIGN, MANUFACTURE, TRANSPORTATION, AND ERECTION OF THE STRUCTURAL PRECAST ROOF PANEL.
- DESIGN OF PRECAST MEMBERS SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF 1042 OF THE STANDARD SPECIFICATIONS
- PRECAST MEMBERS MAY BE CONVENTIONALLY REINFORCED AND/OR PRESTRESSED, CONSISTENT WITH THE DESIGN LOADS, SPANS, HANDLING STRESSES, ETC. DESIGN LOADS ARE SHOWN ON DRAWINGS.
- PRECAST CONTRACTOR SHALL FURNISH COMPLETE DESIGN CALCUALTIONS SIGNED BY A LICENSED STRUCTURAL ENGINEER LICENSED IN ILLINOIS, INCLUDING DETAILS OF CONNECTIONS.
- PRECAST CONTRACTOR SHALL FURNISH AND PLACE ANY TEMPORARY SHORING, BRACING, ETC. REQUIRED FOR ERECTION OF PRECAST WORK.
- PRECAST CONTRACTOR SHALL FURNISH ALL THREADED INSERTS, LIFTING ANCHORS, LIFTING COVERS, ETC., REQUIRED TO CONNECT THE PRECAST TO THE STRUCTURAL STEEL ANGLES.
- PRECAST MANUFACTURER SHALL CAST IN STRUCTURAL INSERTS AND LIFTING ANCHORS AS SHOWN ON THE STRUCTURAL DESIGN PLANS.

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PLOT DATE = 10/28/2019	DATE - 10/3/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	D6 PUMP STATION 2019	LOGAN	8	2
CONTRACT NO. 46528			ILLINOIS FED. AID PROJECT	

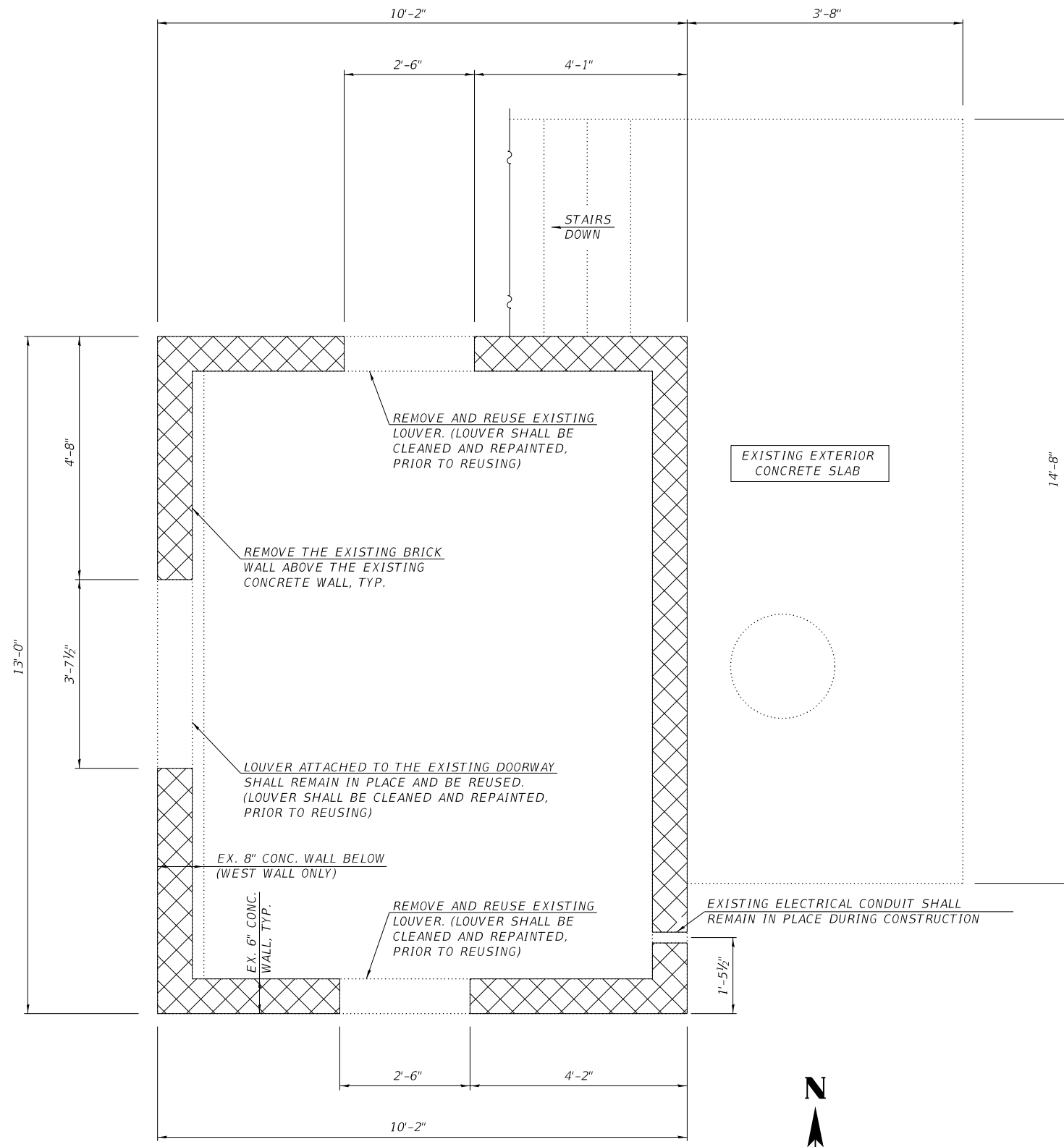
ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	100% STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				LOGAN		
				0044		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	175	175		
58700300	CONCRETE SEALER	SQ FT	330	330		
67100100	MOBILIZATION	L SUM	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
X0335700	PUMP STATION GENERAL WORK	L SUM	1	1		
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	0.8	0.8		
Z0034100	MASONRY WALL CONSTRUCTION	SQ FT	150	150		

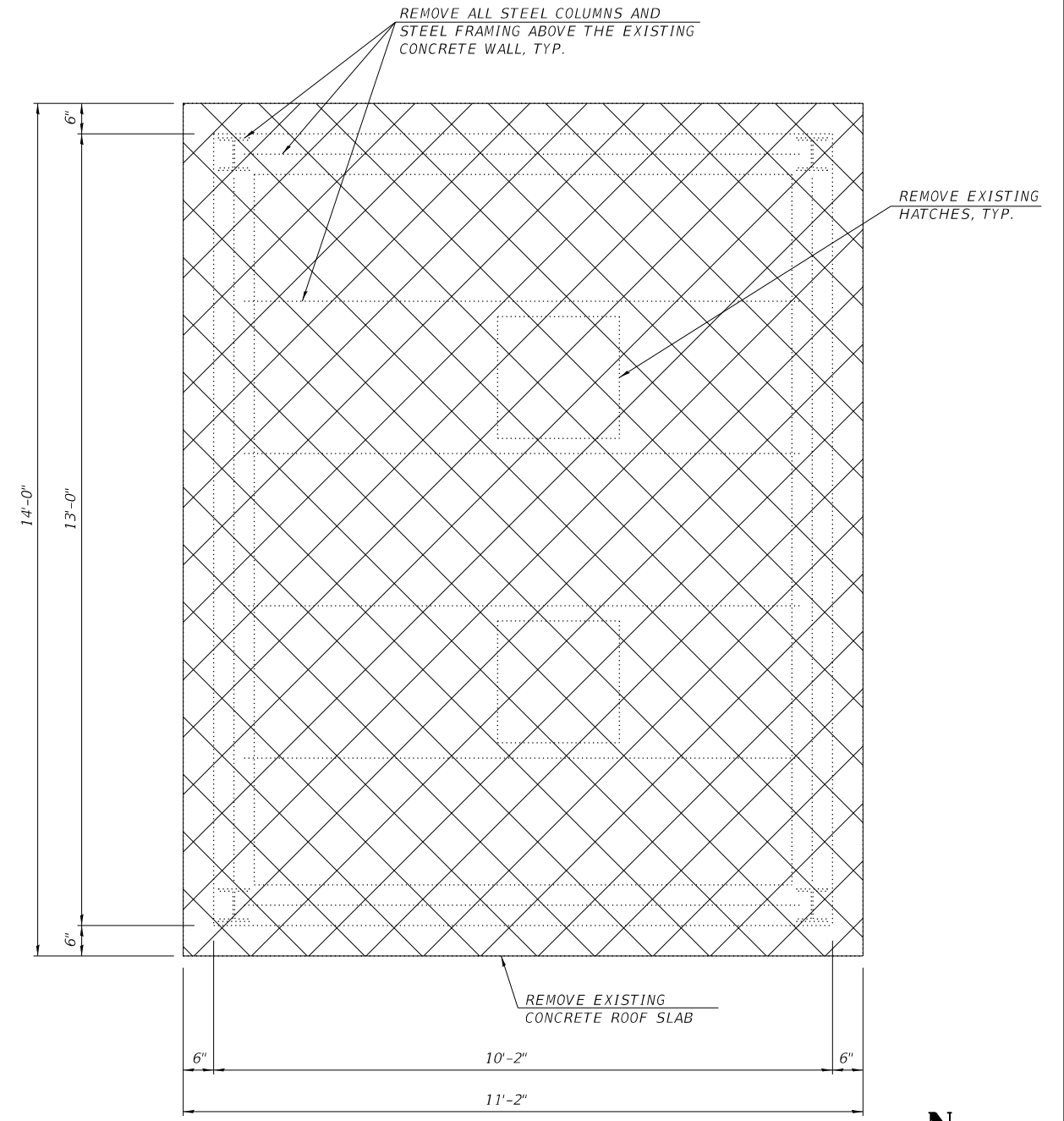
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☒ REMOVAL OF EXISTING STRUCTURES

NOTE:
 COST OF REMOVING THE EXISTING MASONRY BRICKS, STEEL FRAMING, AND CONCRETE ROOF SLAB, AND THEIR COMPONENTS SHALL BE INCLUDED IN "REMOVAL OF EXISTING STRUCTURES".
 NO SALVAGE, UNLESS NOTED OTHERWISE
 COST OF REMOVING, CLEANING, AND PAINTING THE EXISTING LOUVERS SHALL BE INCLUDED IN "PUMP STATION GENERAL WORK".
 THE STRUCTURAL CONTRACT WILL BE COMPLETED CONCURRENTLY WITH A SEPERATE ELECTRICAL CONTRACT. THE CONTRACTOR SHALL COORDINATE STRUCTURAL WORK WITH THIS SEPERATE ELECTRICAL WORK.
 THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, PRIOR TO CONSTRUCTION OR ORDERING MATERIAL.



EXISTING WALL DEMO PLAN



EXISTING ROOF FRAMING DEMO PLAN

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KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors
 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3670
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

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	DATE - 10/3/2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

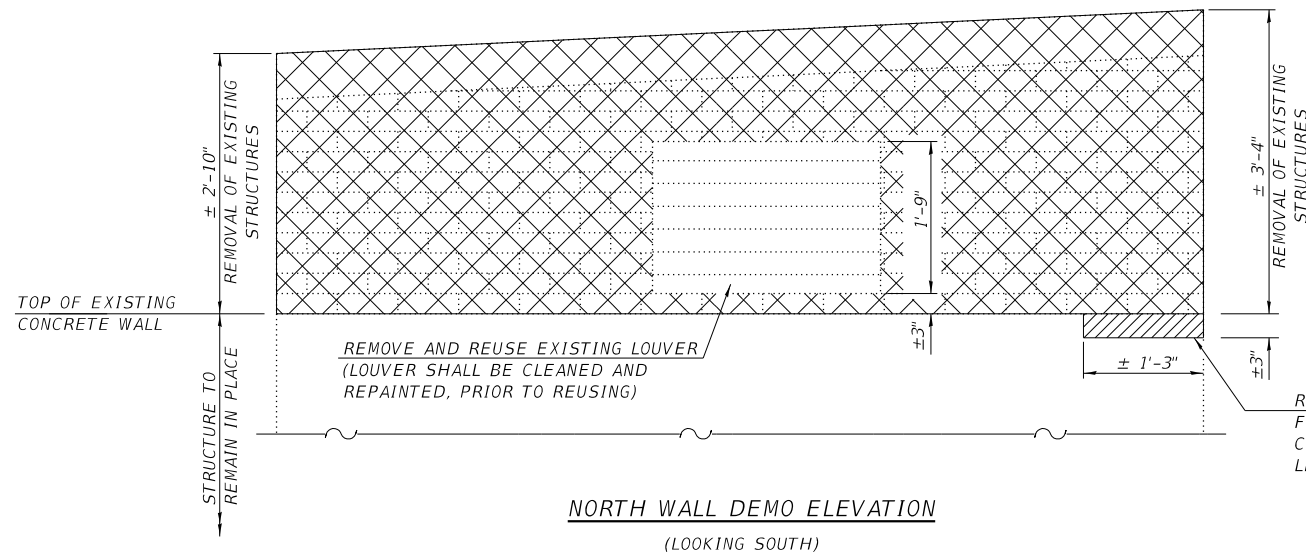
MT. PULASKI PUMP STATION
 BUILDING DEMO PLANS

SCALE: NONE SHEET 1 OF 5 SHEETS STA. TO STA.

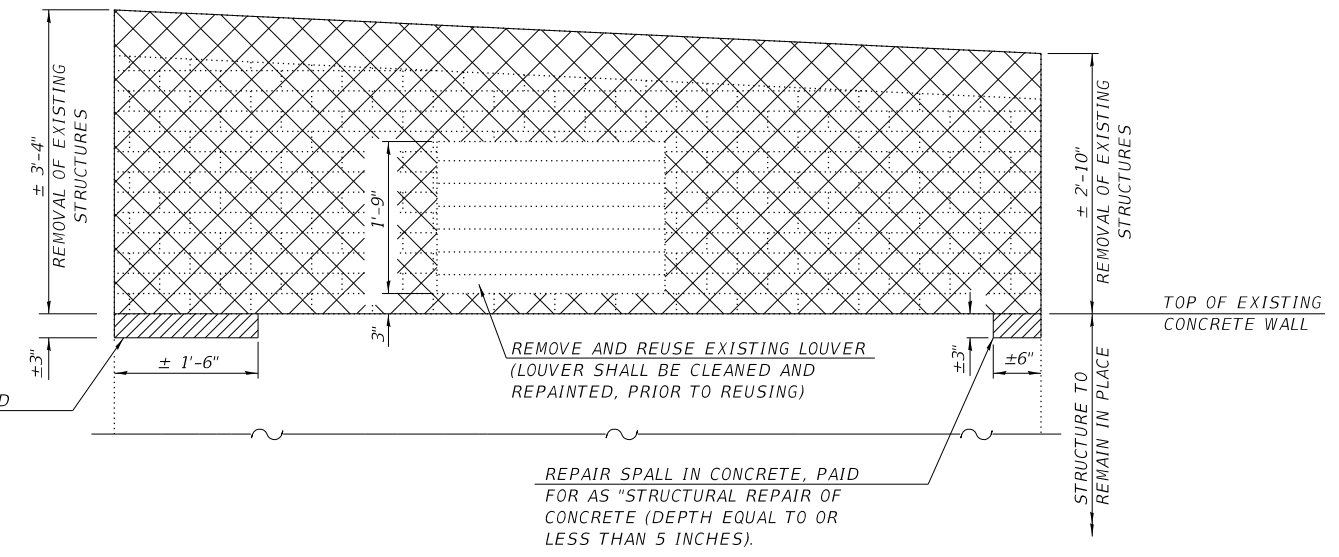
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320	D6 PUMP STATION 2019	LOGAN	8	4
CONTRACT NO. 46528				
ILLINOIS FED. AID PROJECT				

- REMOVAL OF EXISTING STRUCTURES
- STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)

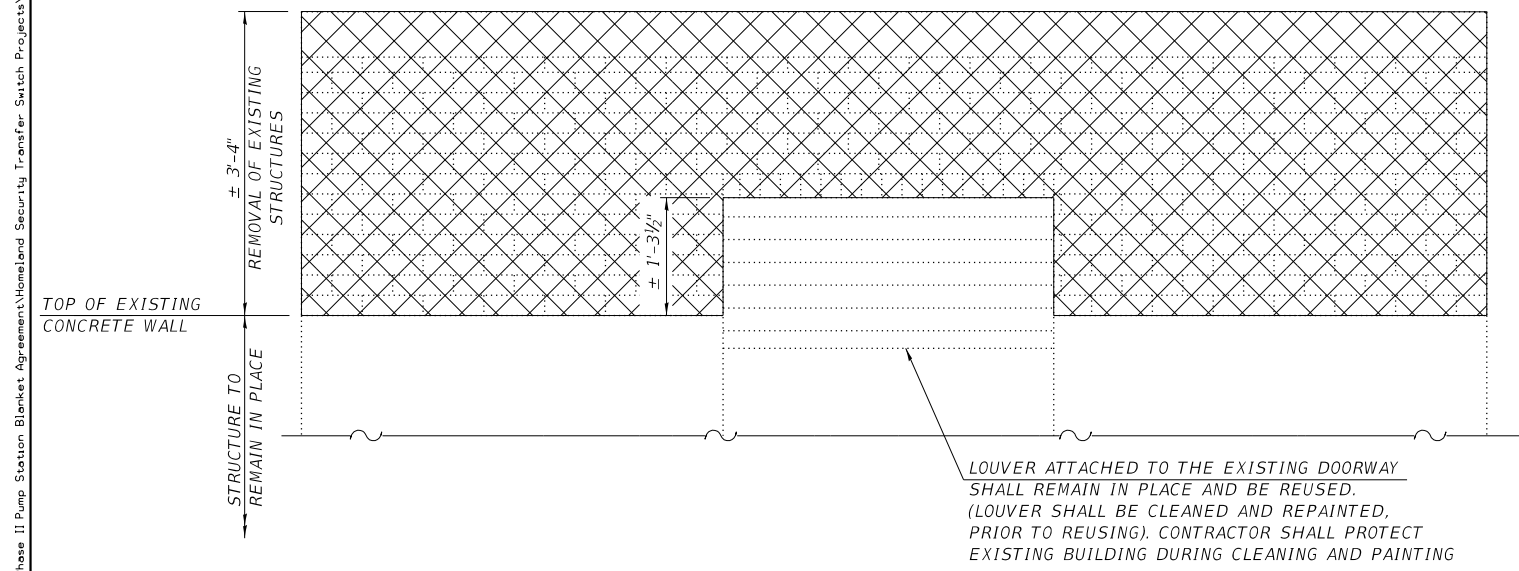
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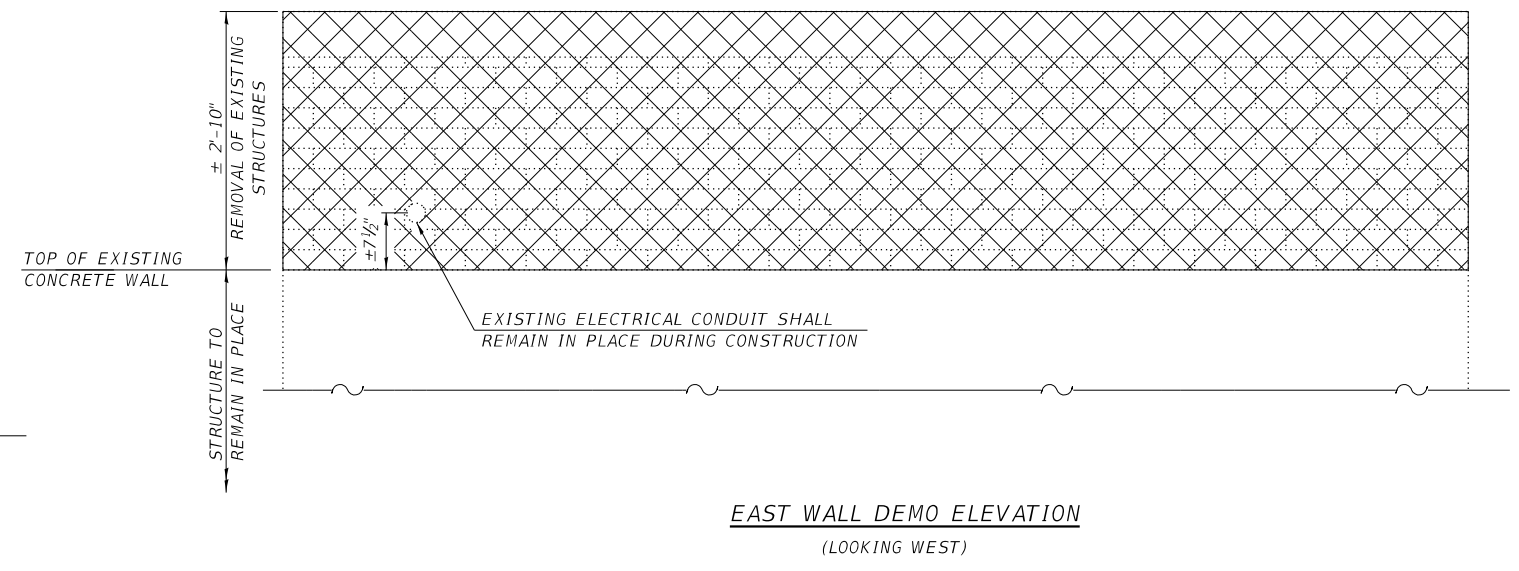
NORTH WALL DEMO ELEVATION
(LOOKING SOUTH)



SOUTH WALL DEMO ELEVATION
(LOOKING NORTH)



WEST WALL DEMO ELEVATION
(LOOKING EAST)

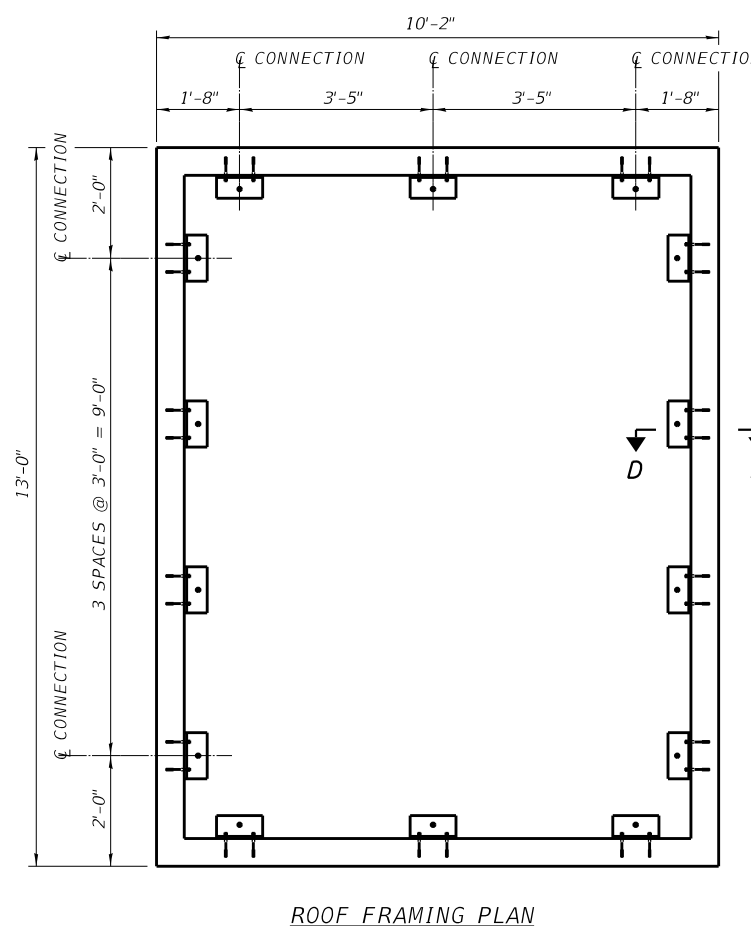
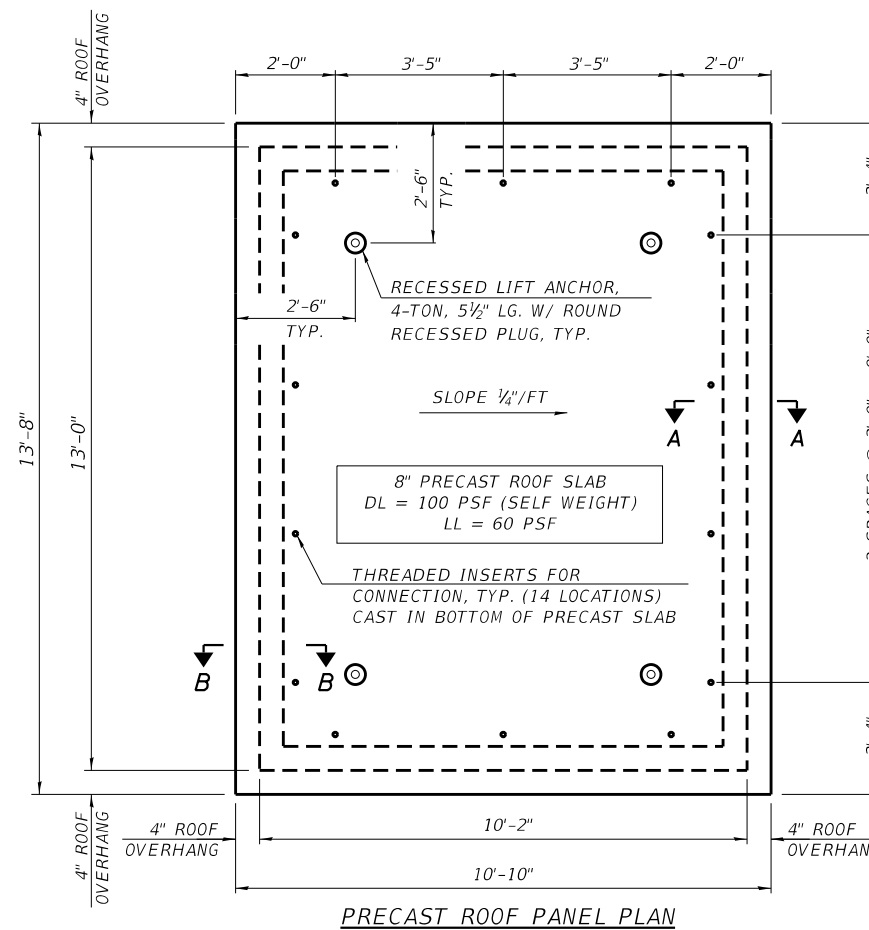
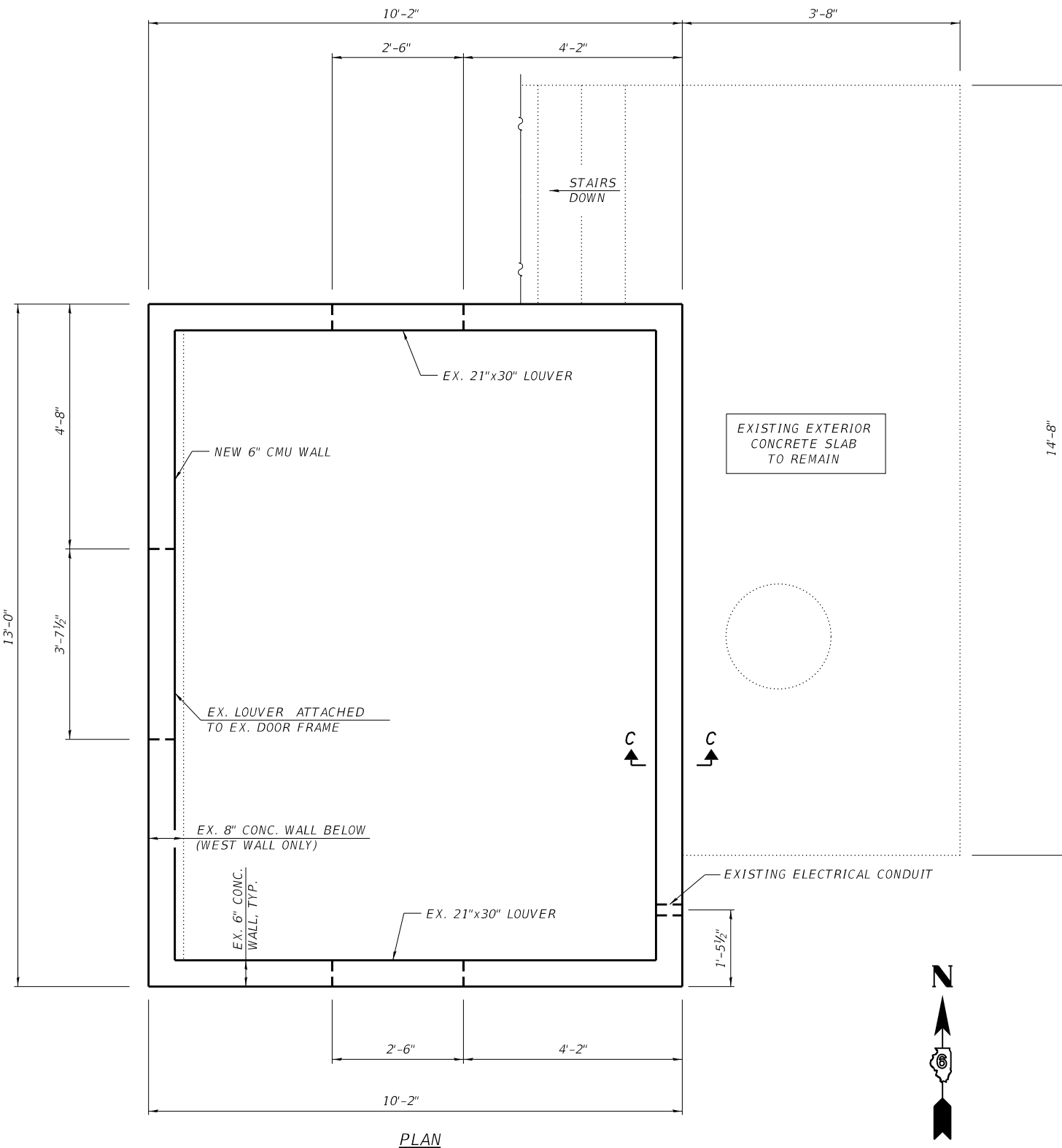


EAST WALL DEMO ELEVATION
(LOOKING WEST)

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KLINGNER & ASSOCIATES, P.C. Engineers • Architects • Surveyors 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738	USER NAME = oms	DESIGNED - AMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MT. PULASKI PUMP STATION BUILDING DEMO ELEVATIONS	F.A.P. RTE. 320	SECTION D6 PUMP STATION 2019	COUNTY LOGAN	TOTAL SHEETS 8	SHEET NO. 5
	PLOT SCALE = 2:8.0000 '1' / in.	CHECKED - KTH	REVISIED -			SCALE: NONE	SHEET 2 OF 5 SHEETS	STA. TO STA.	CONTRACT NO. 46528	
	PLOT DATE = 10/24/2019	DATE - 10/3/2019	REVISIED -							

NOTE:
 THE COST OF CONSTRUCTING THE NEW CMU WALL, INCLUDING THE REINFORCEMENT AND GROUT SHALL BE INCLUDED IN "MASONRY WALL CONSTRUCTION".
 THE COST OF THE STRUCTURAL STEEL ANGLES, ANCHOR BOLTS, THREADED RODS, AND EPOXY SHALL BE INCLUDED IN "FURNISHING AND ERECTING STRUCTURAL STEEL".
 THE COST OF THE 8" PRECAST CONCRETE ROOF PANEL, RECESSED LIFT ANCHORS, RECESS ANCHOR PLUGS, AND THREADED INSERTS SHALL BE INCLUDED IN "PUMP STATION GENERAL WORK".
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 THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, PRIOR TO CONSTRUCTION.
 CONCRETE SEALER SHALL BE APPLIED TO THE TOP, SIDES AND BOTTOM OF THE PRECAST CONCRETE ROOF SLAB.
 SEE SHEET 5 OF 5 FOR SECTIONS A-A, B-B, C-C, AND D-D.



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 Engineers • Architects • Surveyors
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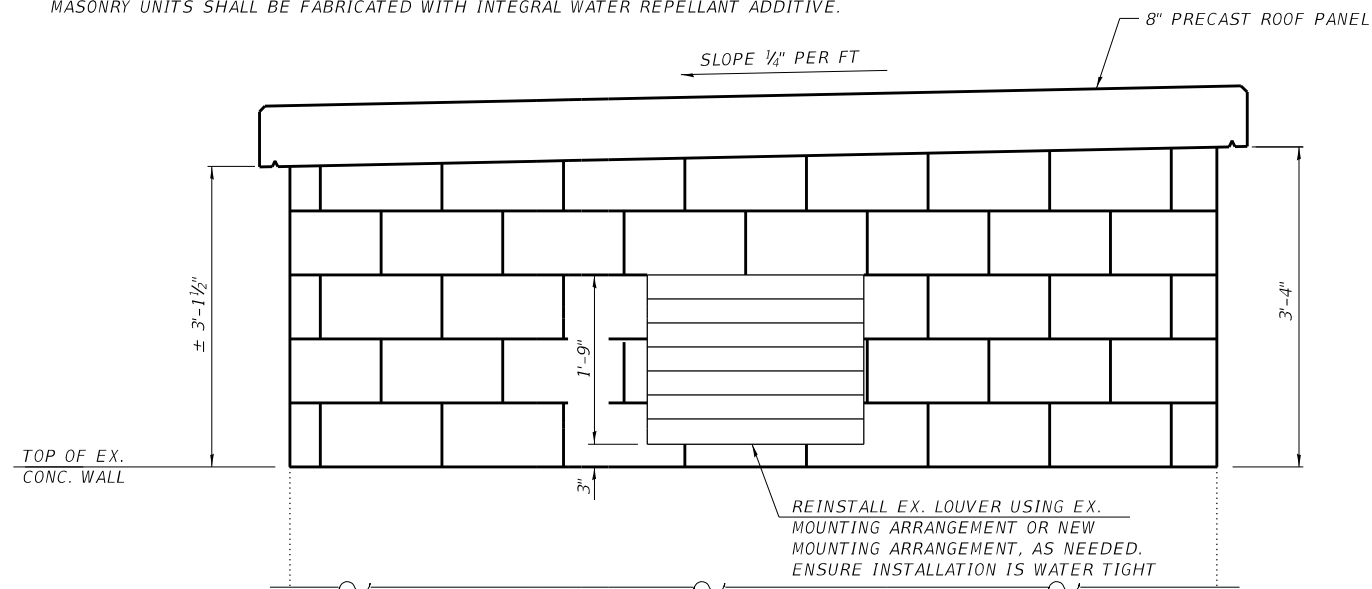
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MT. PULASKI PUMP STATION
 BUILDING PLANS

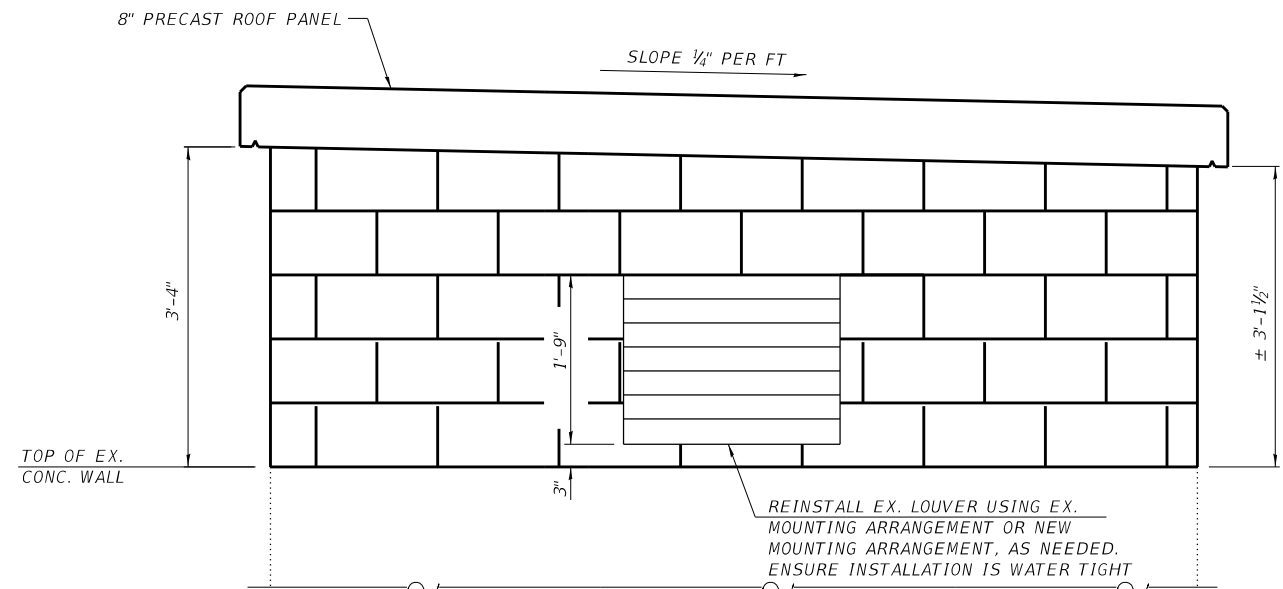
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F.A.P. RTE. 320	SECTION D6 PUMP STATION 2019	COUNTY LOGAN	TOTAL SHEETS 8	SHEET NO. 6
CONTRACT NO. 46528				
ILLINOIS FED. AID PROJECT				

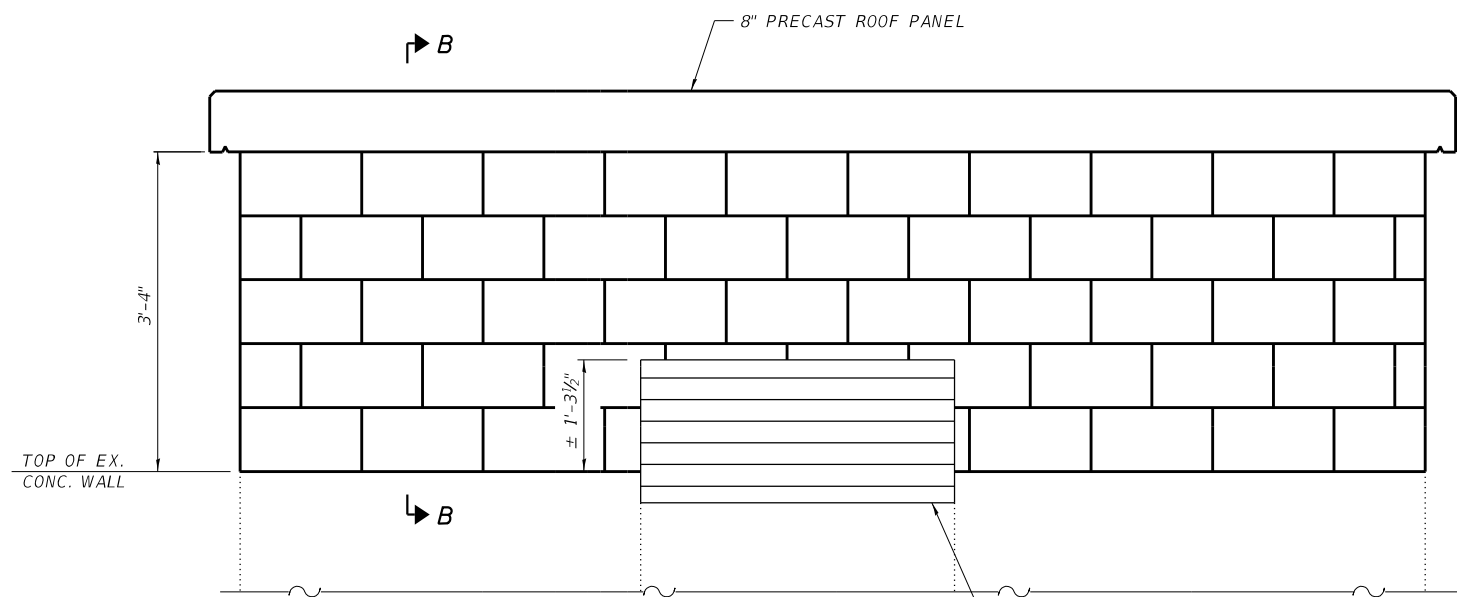
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 CONCRETE SEALER SHALL BE APPLIED TO THE TOP, SIDES, AND BOTTOM OF THE PRECAST CONCRETE ROOF PANEL, PRIOR TO INSTALLATION.
 MASONRY WALL FINISH AND COLOR SHALL BE SELECTED BY THE "OWNER"
 MASONRY UNITS SHALL BE FABRICATED WITH INTEGRAL WATER REPELLANT ADDITIVE.



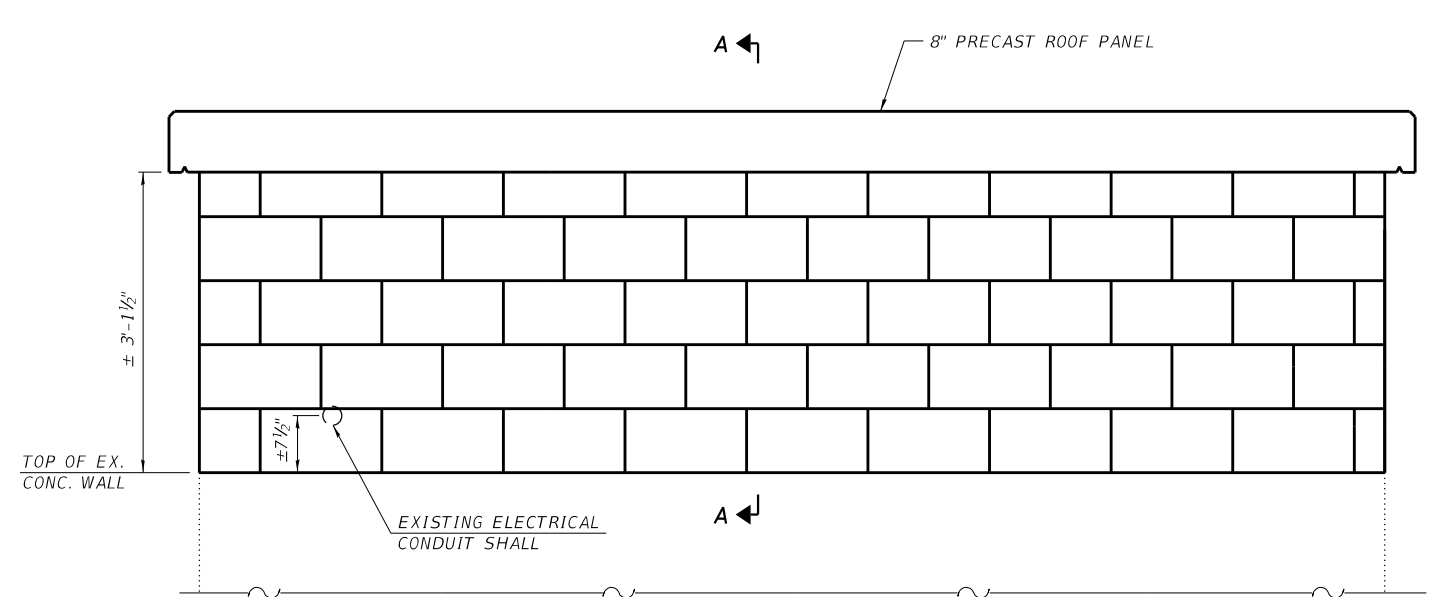
NORTH ELEVATION
(LOOKING SOUTH)



SOUTH ELEVATION
(LOOKING NORTH)



WEST ELEVATION
(LOOKING EAST)



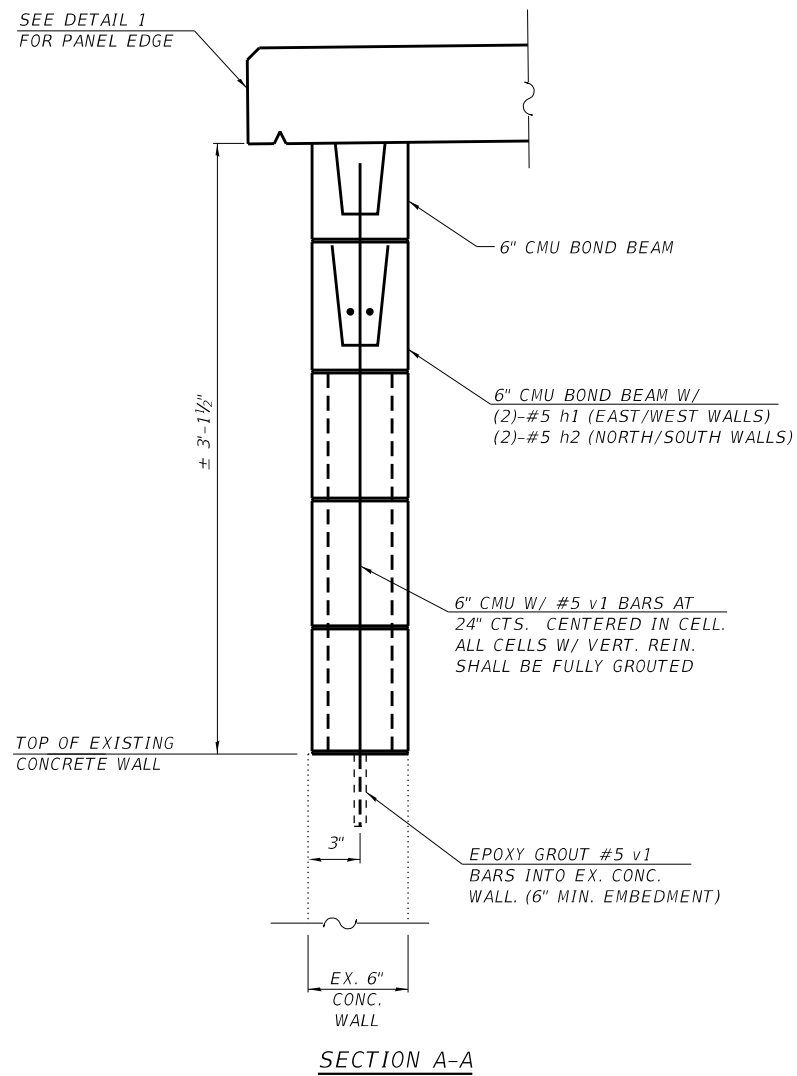
EAST ELEVATION
(LOOKING WEST)

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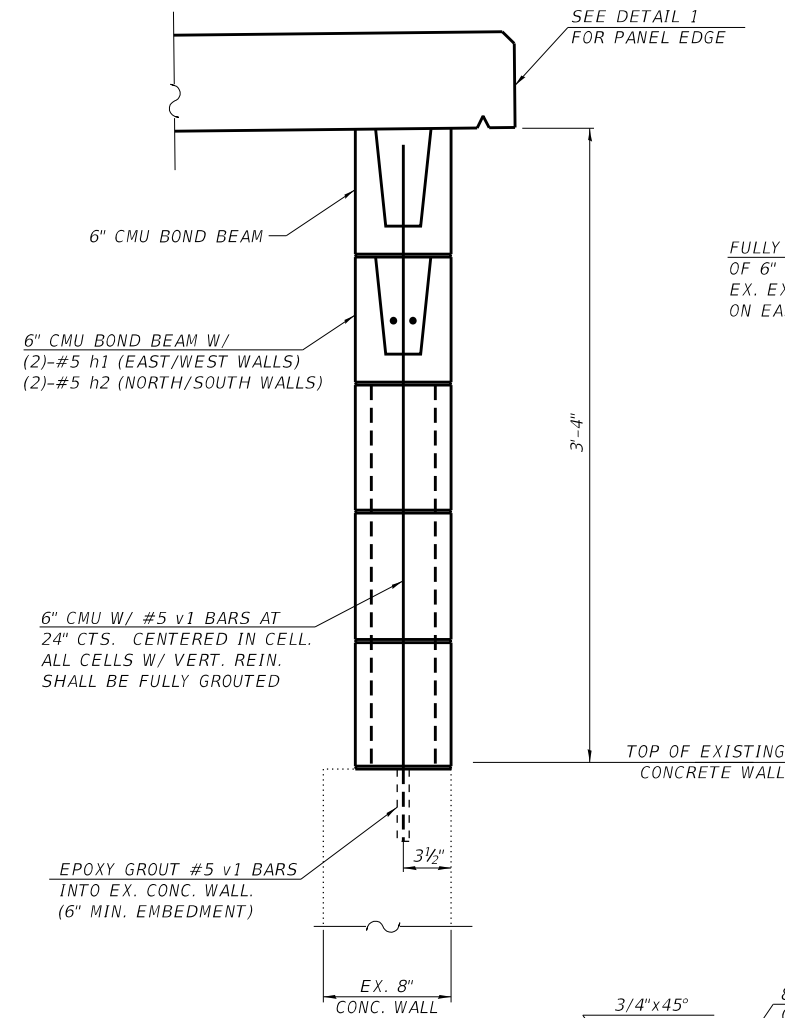
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PLOT DATE = 10/24/2019	CHECKED - KTH	REVISED -
	DATE - 10/3/2019	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	D6 PUMP STATION 2019	LOGAN	8	7
CONTRACT NO. 46528				
ILLINOIS FED. AID PROJECT				

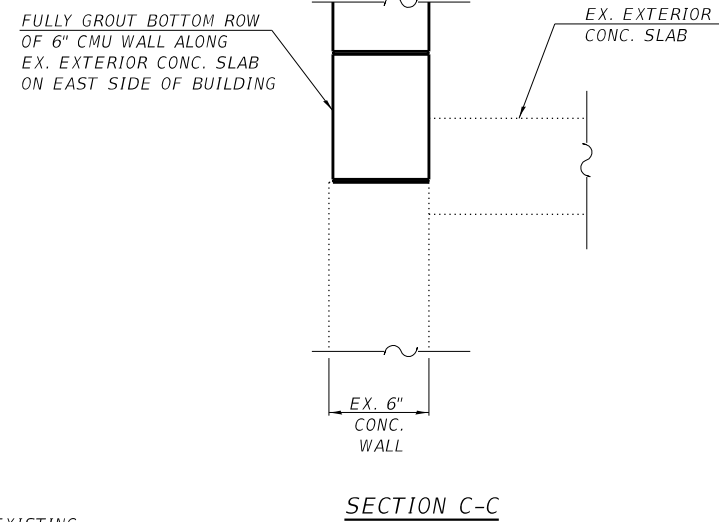
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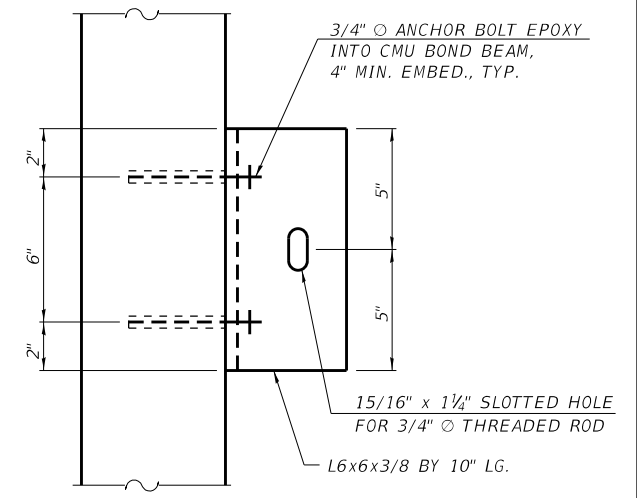
SECTION A-A



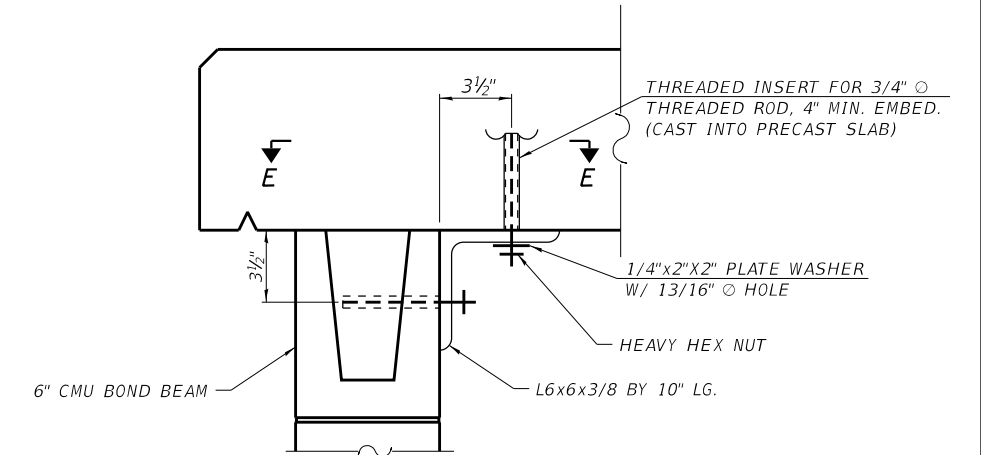
SECTION B-B



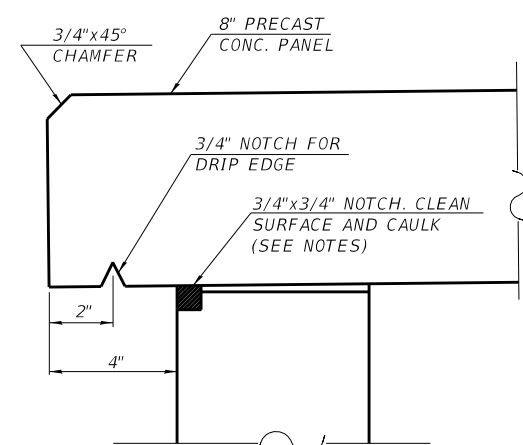
SECTION C-C



SECTION E-E

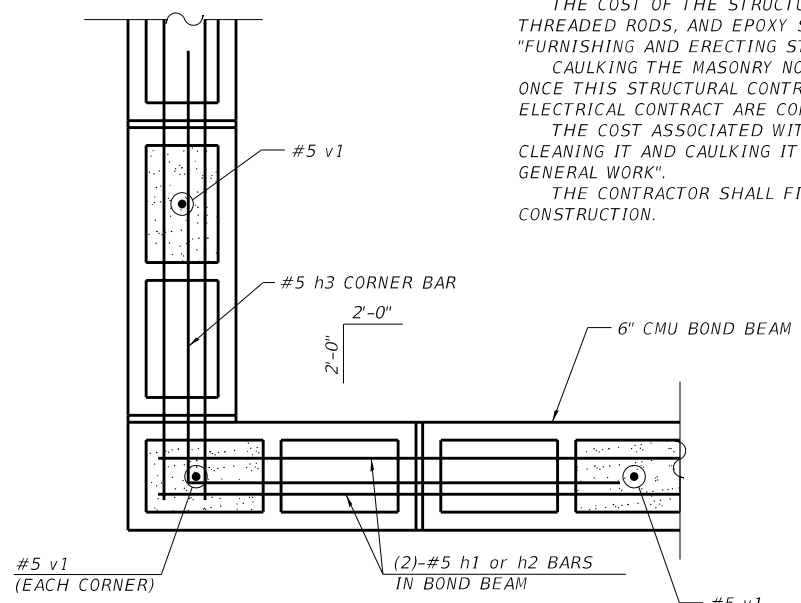


SECTION D-D

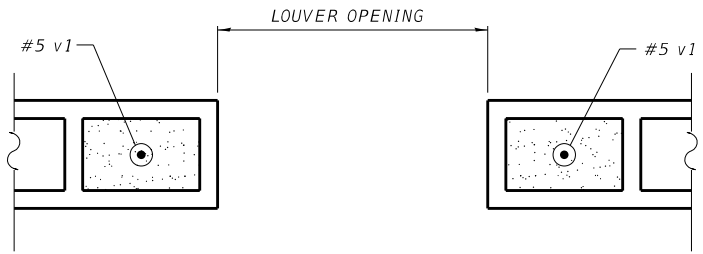


DETAIL 1

NOTE:
 THE COST OF CONSTRUCTING THE NEW CMU WALL, INCLUDING THE REINFORCEMENT AND GROUT SHALL BE INCLUDED IN "MASONRY WALL CONSTRUCTION".
 THE COST OF THE STRUCTURAL STEEL ANGLES, ANCHOR BOLTS, THREADED RODS, AND EPOXY SHALL BE INCLUDED IN "FURNISHING AND ERECTING STRUCTURAL STEEL".
 CAULKING THE MASONRY NOTCH SHALL BE COMPLETED ONCE THIS STRUCTURAL CONTRACT AND THE CORRESPONDING ELECTRICAL CONTRACT ARE COMPLETED.
 THE COST ASSOCIATED WITH CUTTING THE MASONRY NOTCH OUT, CLEANING IT AND CAULKING IT SHALL BE INCLUDED IN "PUMP STATION GENERAL WORK".
 THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, PRIOR TO CONSTRUCTION.



MASONRY WALL CORNER DETAIL



MASONRY WALL LOUVER OPENING DETAIL

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h1	4	#5	12'-8"	—
h2	4	#5	9'-10"	—
h3	4	#5	4'-0"	└
* v1	28	#5	3'-6"	—
REINFORCEMENT BARS			LBS.	210

* CUT AS NEEDED.