

09-21-2018 LETTING ITEM 026

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 DEMOLITION PLANS
- 5 EXISTING INTERIOR WALL ELEVATIONS
- 6 EXISTING EXTERIOR WALL ELEVATIONS
- 7 STRUCTURAL DETAILS
- 8 DOOR DETAILS

HIGHWAY STANDARDS

000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

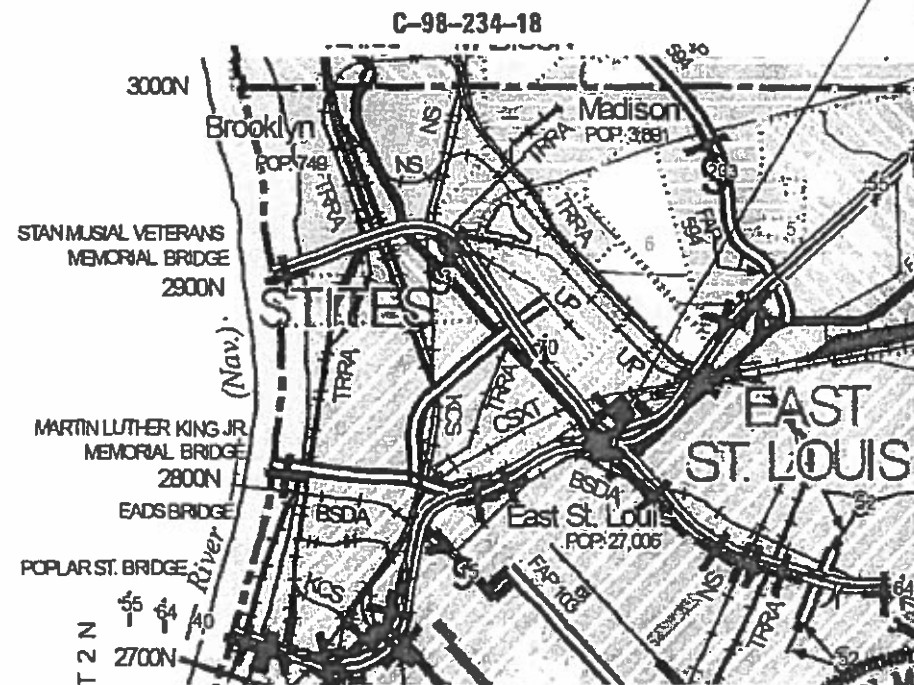
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 70 (I-055/070)
SECTION 82-2-1PS-1
BOWMAN PUMP STATION
BUILDING IMPROVEMENTS
ST. CLAIR COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	82-2-1PS-1	ST. CLAIR	8	1
		ILLINOIS	CONTRACT NO. 76L45	

D-98-058-18

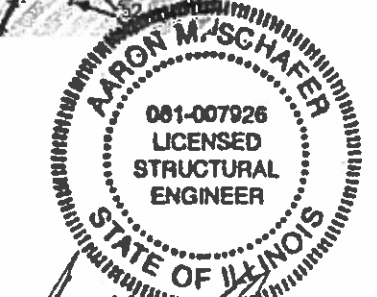


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: HERVE GELIN 618-346-3179
PROJECT MANAGER: PHILLIP SAWYER 618-346-3275
SQUAD LEADER: JEYCEA BOBO 618-346-3190
CONTRACT NO. 76L45

PLANS PREPARED BY:
KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
618 North 24th Street, Quincy, IL Ph (217)223-2670 - Fax (217)223-2602
4610 Park Street, Normal, MO Ph (573)221-0020 - Fax (573)221-0012
610 N. 4th Street, Suite 100, Burlington, IA Ph (319)753-1838 - Fax (319)753-2025
18 North Prairie Street, Galena, IL Ph (330)242-4842 - Fax (330)241-3781
STATE OF ILLINOIS DESIGN FIRM # 1842738 www.klingner.com



AARON M. SCHÄFER
6/2/18 DATE
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS NO. 081-007926
LICENSE EXPIRES NOVEMBER 30, 2018

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 19, 2018
Jeffrey Z. K... REGIONAL ENGINEER
Aug 7, 2018
E.A. ETC
ENGINEER OF DESIGN AND ENVIRONMENT
Aug 10, 2018
Paul L. Ch... DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

DESIGN CRITERIA

- BUILDING CODES: IBC 2012

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 AND SHALL BE INCLUDED WITH THE COST OF FURNISHING AND ERECTING STRUCTURAL STEEL, SPECIAL.
- 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 (GAS & ELECTRIC)
 - * AT&T Illinois (COMMUNICATIONS)
 - * Verizon Business (COMMUNICATIONS)
 - * City of East St. Louis (LIGHTING)
 - * ILLINOIS AMERICAN WATER CO. (WATER)

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 FOR MAINTENANCE OF THE EXISTING PUMP STATION BUILDING.
- DRAWINGS ARE NOT TO SCALE.
- THE DEPARTMENT RESERVES THE RIGHT TO NOTIFY THE CONTRACTOR TO CHANGE THE CONSTRUCTION SCHEDULE IF NEEDED TO ENSURE PROPER DEWATERING NEEDS FOR THE DEPARTMENT.
- 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. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- REMOVE AND SALVAGE ALL ELECTRICAL EQUIPMENT, LIGHTING, AND CONDUIT, AS NECESSARY, TO PERMIT STRUCTURAL WORK. REINSTALL, AFTER WALL REPAIRS ARE COMPLETED, TO MATCH EXISTING CONDITIONS.
- ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.

STRUCTURAL STEEL

- DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC SPECIFICATIONS AND STANDARD CODE OF PRACTICE.
- STEEL FABRICATION AND ERECTION SHALL FOLLOW OSHA REQUIREMENTS.
- ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE", AWS D1.1, LATEST EDITION.
- STRUCTURAL STEEL LINTELS
 - ASTM A36 (Fy = 36,000 psi)
 - ALL LINTELS SHALL BE HOT DIPPED GALVANIZED. SEE SPECIAL PROVISION.
- REPAIR GALVANIZED SURFACES PER ASTM A780.
- APPROXIMATE WEIGHT OF STRUCTURAL STEEL REMOVAL = 502 lbs
- ALL STEEL SHALL BE FURNISHED IN ACCORDANCE WITH ARTICLE 505 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WITH THE EXCEPTION OF THE GRATING AND HOIST NOTED IN THE SPECIAL PROVISION "FURNISHING AND ERECTING STRUCTURAL STEEL, SPECIAL"

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) FOR THE YEAR REFERENCED IN THE BUILDING CODE NOTED.
- ALL BRICK MASONRY AND CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF THE BRICK INDUSTRY OF ASSOCIATION (BIA) AND MINIMUM REQUIREMENT ESTABLISHED BY THE BUILDING CODE NOTED.
- ASTM C270 TYPE "S" MORTAR WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI SHALL BE USED FOR ALL MASONRY.
- THE COST OF SALVAGING THE EXISTING BRICK MASONRY DURING MASONRY REMOVAL SHALL BE INCLUDED IN "MASONRY REMOVAL".

HOLLOW METAL DOORS AND FRAMES

- COLD-ROLLED STEEL SHEETS: ASTM A 1008/A 1008M, CS, TYPE B; SUITABLE FOR EXPOSED APPLICATIONS
- CONTRACTOR SHALL FIELD VERIFY ALL DOOR DIMENSIONS PRIOR TO FABRICATION.
- DOOR ACCESSORIES SHALL BE PROVIDED AS DESCRIBED IN THE SPECIAL PROVISIONS.
- STEEL SHALL BE HOT-DIPPED GALVANIZED.



USER NAME = oms	DESIGNED - AMS	REVISED -
	DRAWN - ADL	REVISED -
PLOT SCALE = 2:8' = 1/4" = 1 in.	CHECKED - AMS	REVISED -
PLOT DATE = 6/6/2018	DATE - ADL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

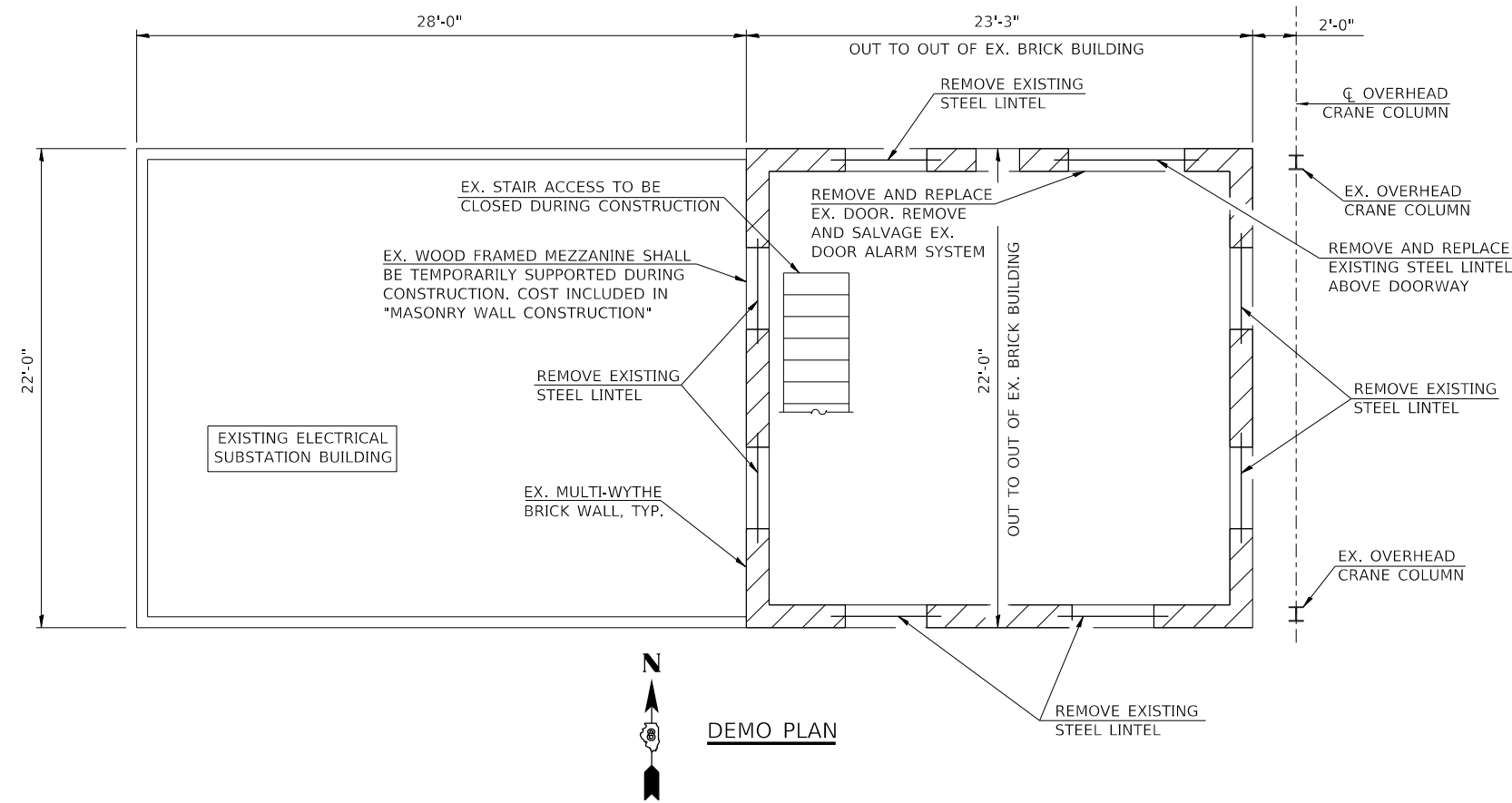
GENERAL NOTES

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

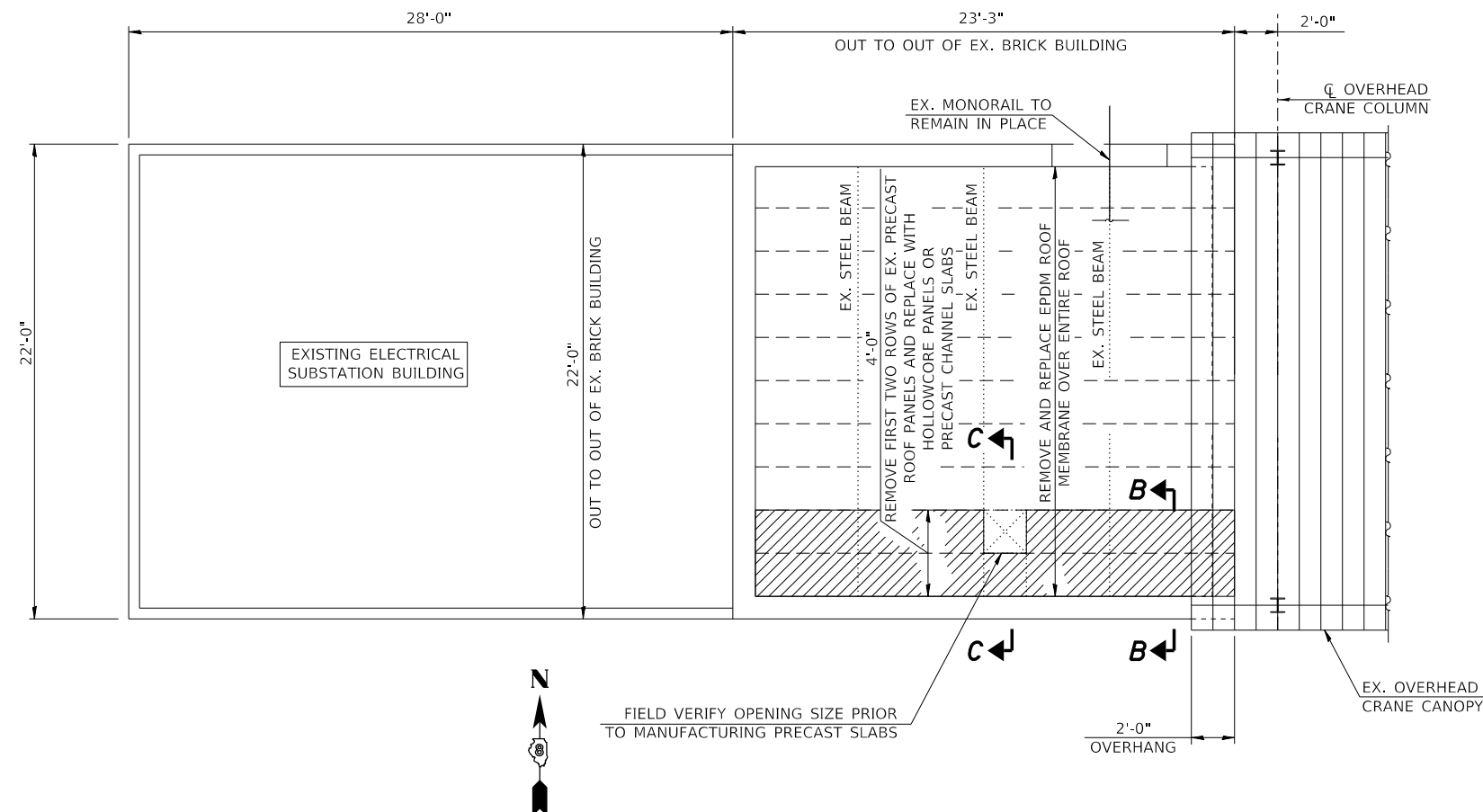
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	82-2-IPS-1	ST. CLAIR	8	2
				CONTRACT NO. 76L45
ILLINOIS FED. AID PROJECT				

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE URBAN		
				CONSTRUCTION TYPE CODE		
				ST. CLAIR		
				0044		
50102700	MASONRY REMOVAL	CU YD	3.5	3.5		
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	260	260		
67100100	MOBILIZATION	L SUM	1	1		
X0325153	MASONRY CLEANING AND TUCKPOINTING	SQ YD	8	8		
X0335700	PUMP STATION GENERAL WORK	L SUM	1	1		
X0783300	PUMP STATION ELECTRICAL WORK	L SUM	1	1		
Z0001904	STRUCTURAL STEEL REMOVAL	L SUM	1	1		
Z0034100	MASONRY WALL CONSTRUCTION	SQ FT	90	90		

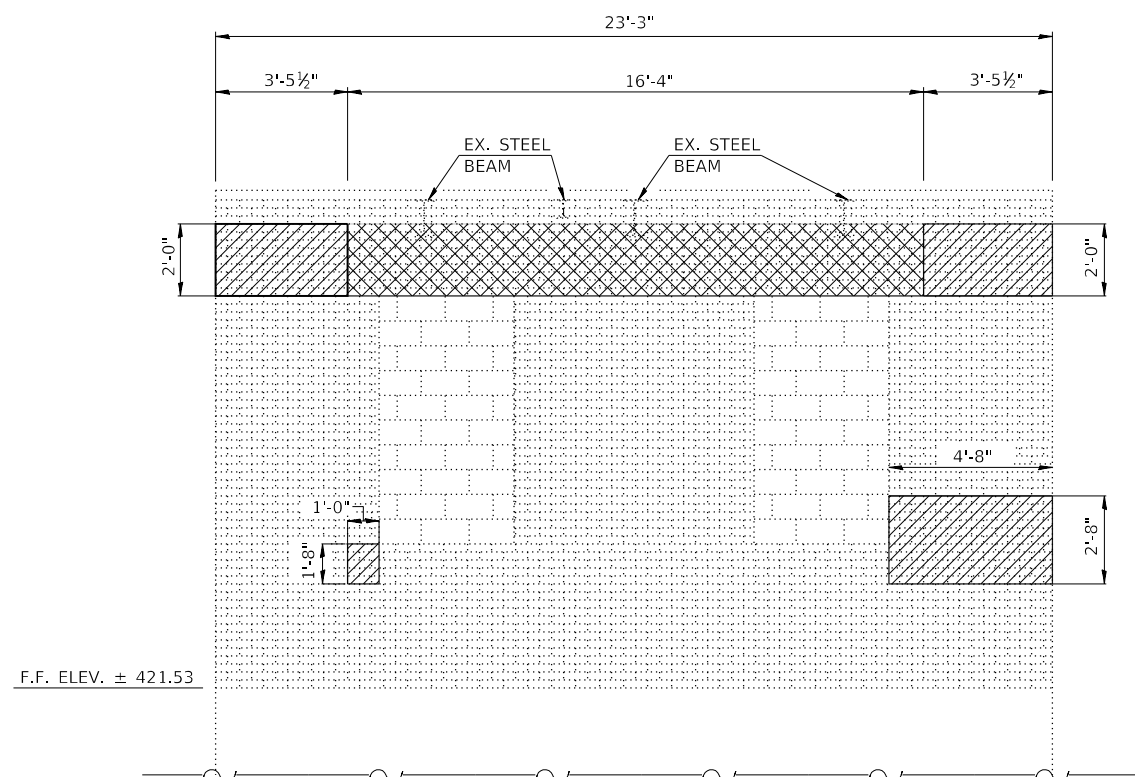


- NOTE:**
- 1) NO SALVAGE, UNLESS NOTED OTHERWISE
 - 2) THE COST OF ALL STEEL REMOVAL SHALL BE INCLUDED IN "STRUCTURAL STEEL REMOVAL"
 - 3) THE COST OF ALL MASONRY REMOVAL SHALL BE INCLUDED IN "MASONRY REMOVAL"
 - 4) THE COST OF REMOVING THE EXISTING PRECAST ROOF PANELS AND REPLACING THEM WITH NEW PRECAST HOLLOW CORE PANELS OR PRECAT CHANNEL SLABS SHALL BE INCLUDED IN "PUMP STATION GENERAL WORK"
 - 5) SEE SHEET 7 OF 8 FOR SECTION B-B AND C-C.
 - 6) THE COST OF HOLLOW DOOR AND FRAME SHALL BE INCLUDED IN "PUMP STATION GENERAL WORK"
 - 7) THE EXISTING DOOR ALARM SYSTEM SHALL BE REMOVED AND SALVAGED. ALARM SYSTEM SHALL REMAIN THE PROPERTY OF IDOT D8. CALL PETE SAWYER AT 618-346-3275 TO ARRANGE DELIVERY

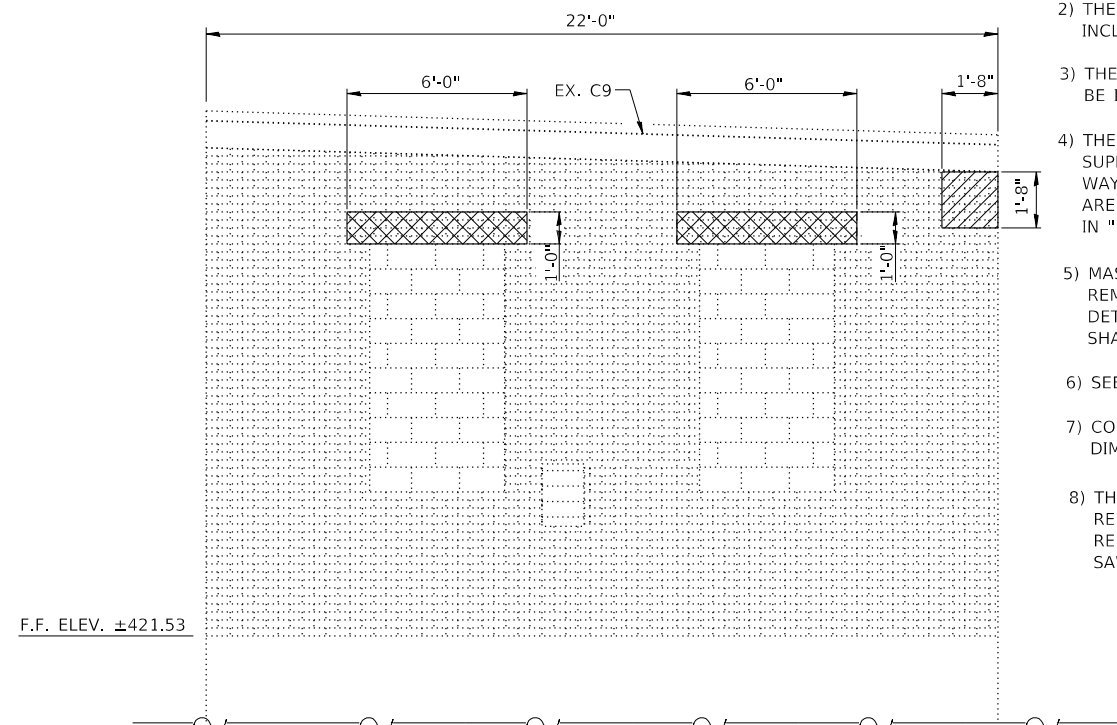


NOTE:

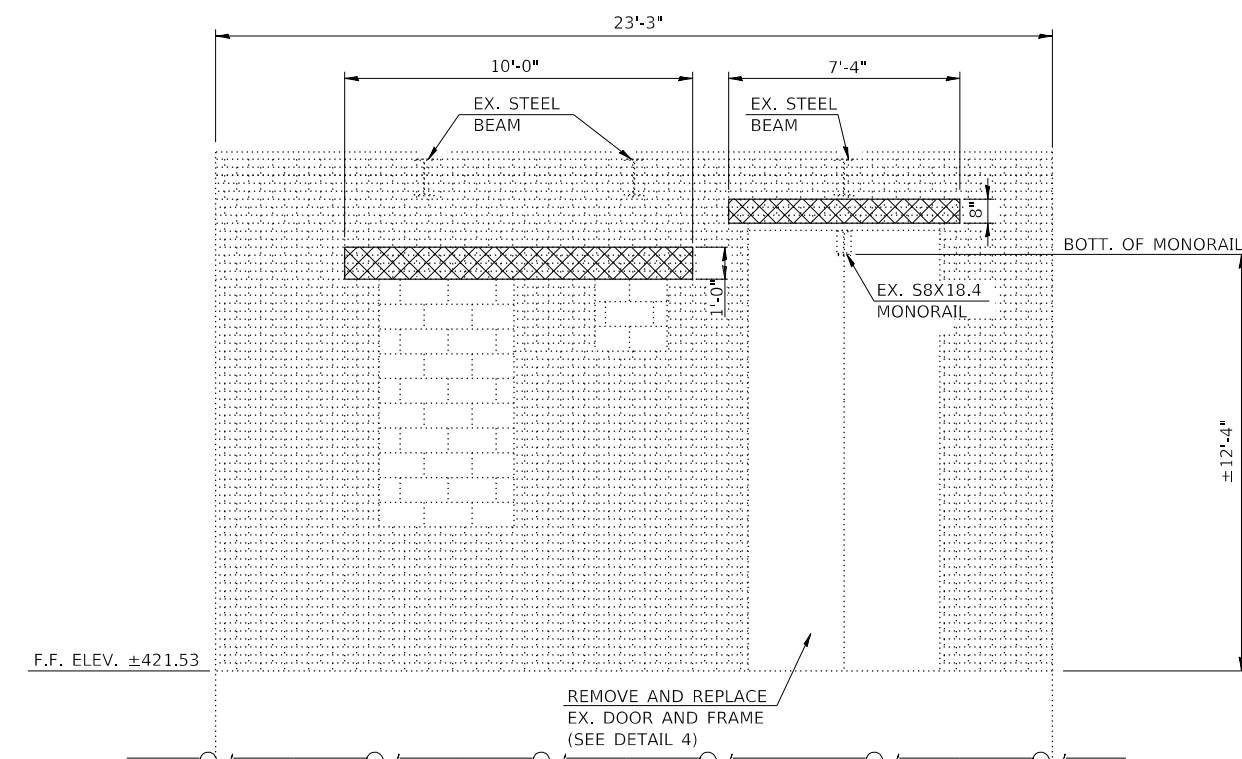
- 1) NO SALVAGE, UNLESS NOTED OTHERWISE
- 2) THE COST OF ALL STEEL REMOVAL SHALL BE INCLUDED IN "STRUCTURAL STEEL REMOVAL"
- 3) THE COST OF ALL MASONRY REMOVAL SHALL BE INCLUDED IN "MASONRY REMOVAL"
- 4) THE EXISTING STRUCTURE SHALL BE TEMPORARILY SUPPORTED DURING CONSTRUCTION IN SUCH A WAY THAT THE EXISTING ROOF AND PARAPETS ARE NOT DAMAGED OR AFFECTED. COST INCLUDED IN "MASONRY WALL CONSTRUCTION"
- 5) MASONRY UNITS REMOVED DURING MASONRY REMOVAL SHALL SALVAGED AND REUSED IF DETERMINED TO BE IN GOOD QUALITY. COST SHALL BE INCLUDED IN "MASONRY REMOVAL"
- 6) SEE SHEET 8 OF 8 FOR DETAIL 4.
- 7) CONTRACTOR SHALL FIELD VERIFY ALL DOOR DIMENSIONS PRIOR TO DOOR FABRICATION
- 8) THE EXISTING DOOR ALARM SYSTEM SHALL BE REMOVED AND SALVAGED. ALARM SYSTEM SHALL REMAIN THE PROPERTY OF IDOT D8. CALL PETE SAWYER AT 618-346-3275 TO ARRANGE DELIVERY



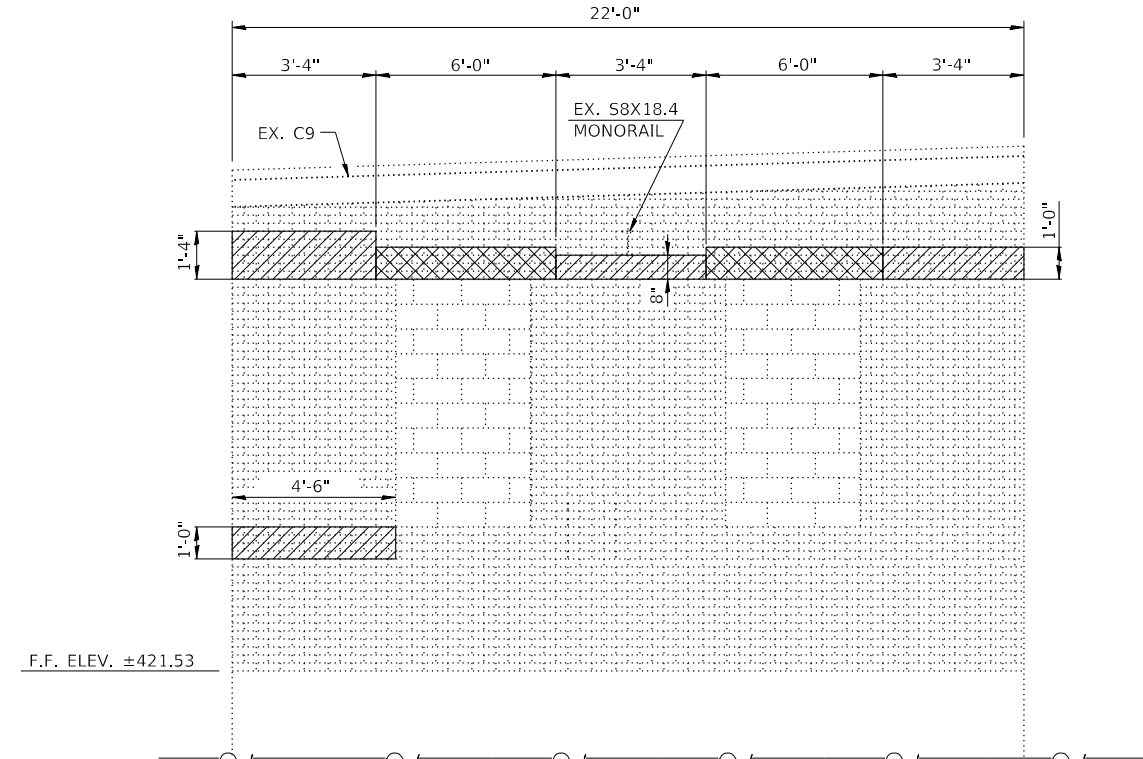
EX. WALL ELEVATION - SOUTH WALL
LOOKING SOUTH



EX. WALL ELEVATION - EAST WALL
LOOKING EAST



EX. WALL ELEVATION - NORTH WALL
LOOKING NORTH



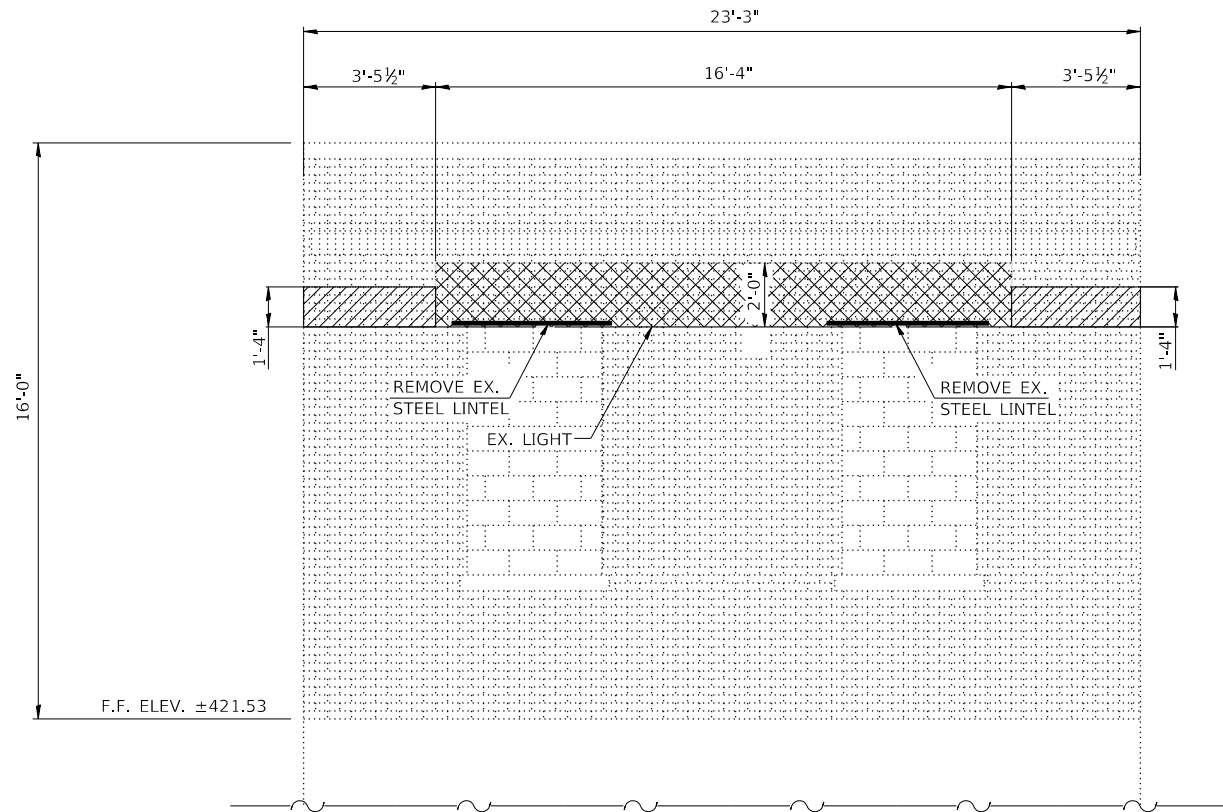
EX. WALL ELEVATION - WEST WALL
LOOKING WEST

- COMPLETE BRICK WALL REPLACEMENT (REPLACE ALL 3 WYTHES)
- TUCKPOINT EXISTING BRICK FACE

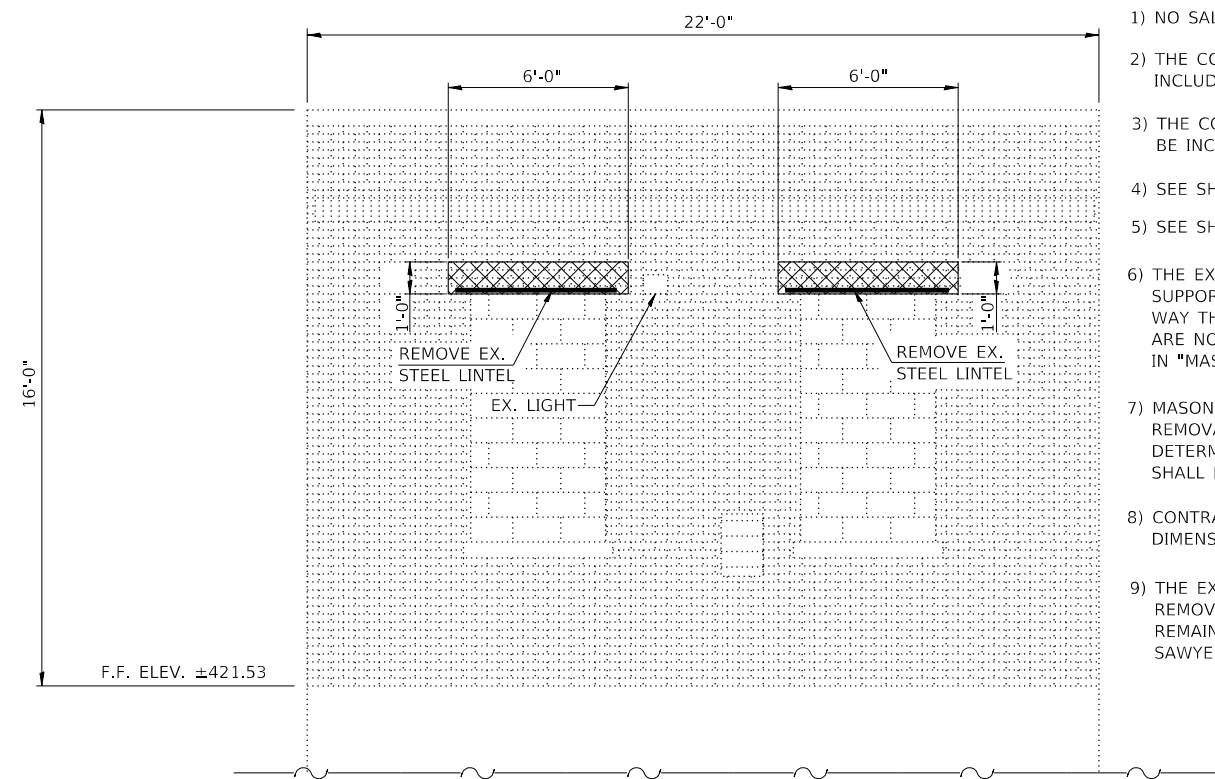
USER NAME : oms	DESIGNED - AMS	REVISED -
PLOT SCALE : 2.0000' / in.	DRAWN - ADL	REVISED -
PLOT DATE : 6/6/2018	CHECKED - AMS	REVISED -
	DATE - ADL	REVISED -

EXISTING INTERIOR WALL ELEVATIONS			
BOWMAN PUMP STATION BUILDING			
SCALE: NONE	SHEET 1 OF 1 SHEET	STA.	TO STA.

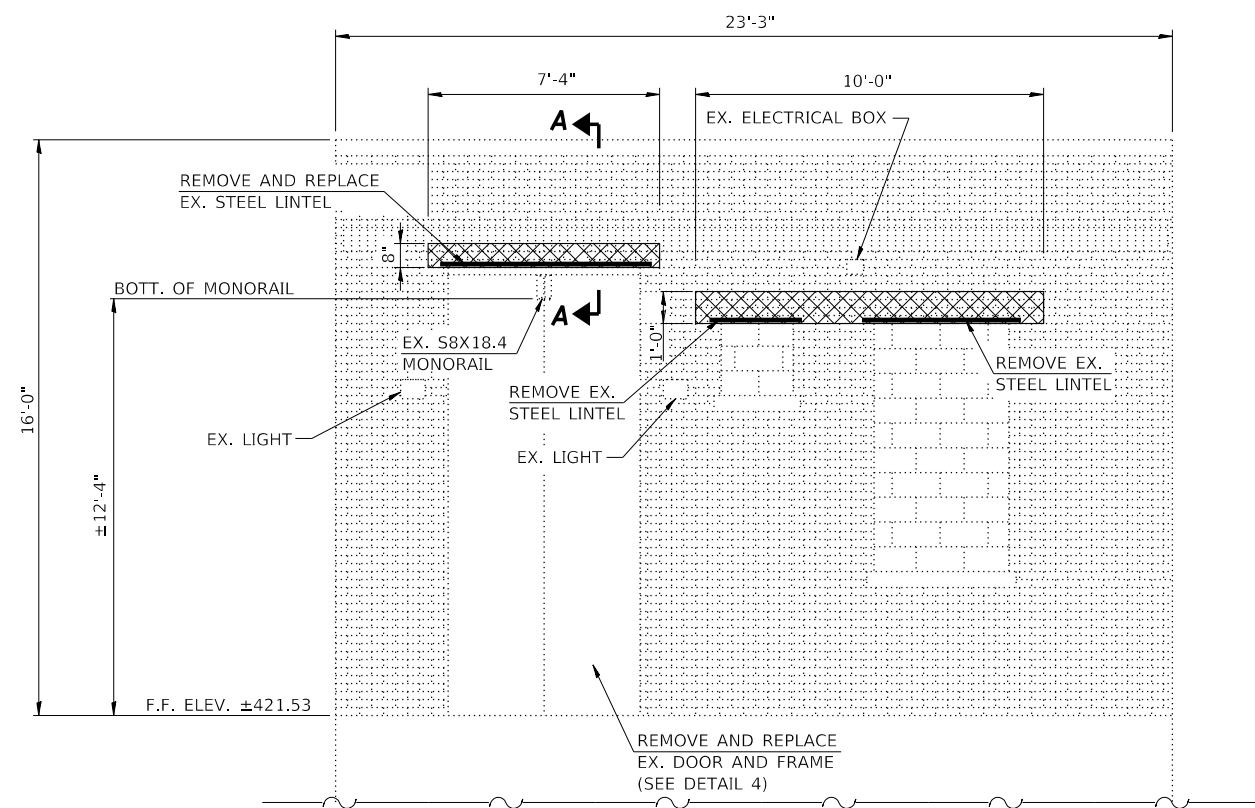
F.A.U. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	82-2-IPS-1	ST. CLAIR	8	5
CONTRACT NO. 76L45				
ILLINOIS FED. AID PROJECT				



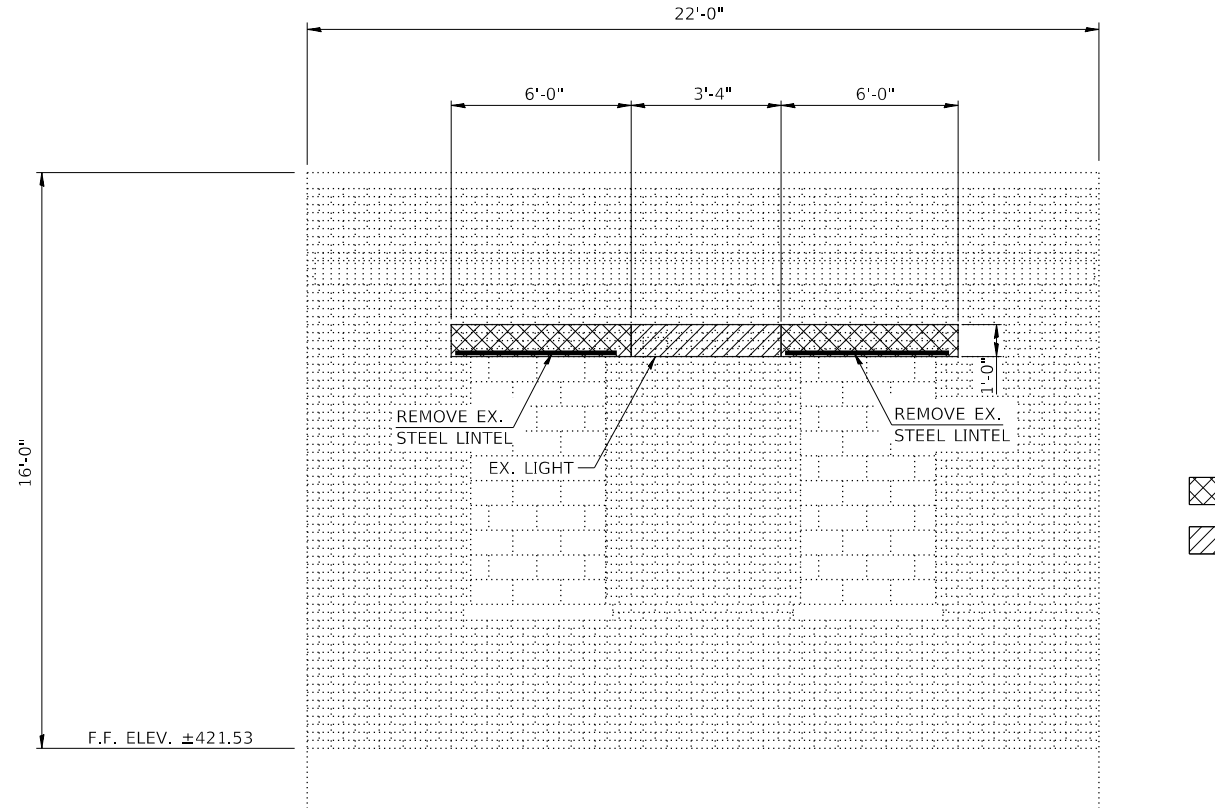
EX. WALL ELEVATION - SOUTH WALL
LOOKING NORTH



EX. WALL ELEVATION - EAST WALL
LOOKING WEST



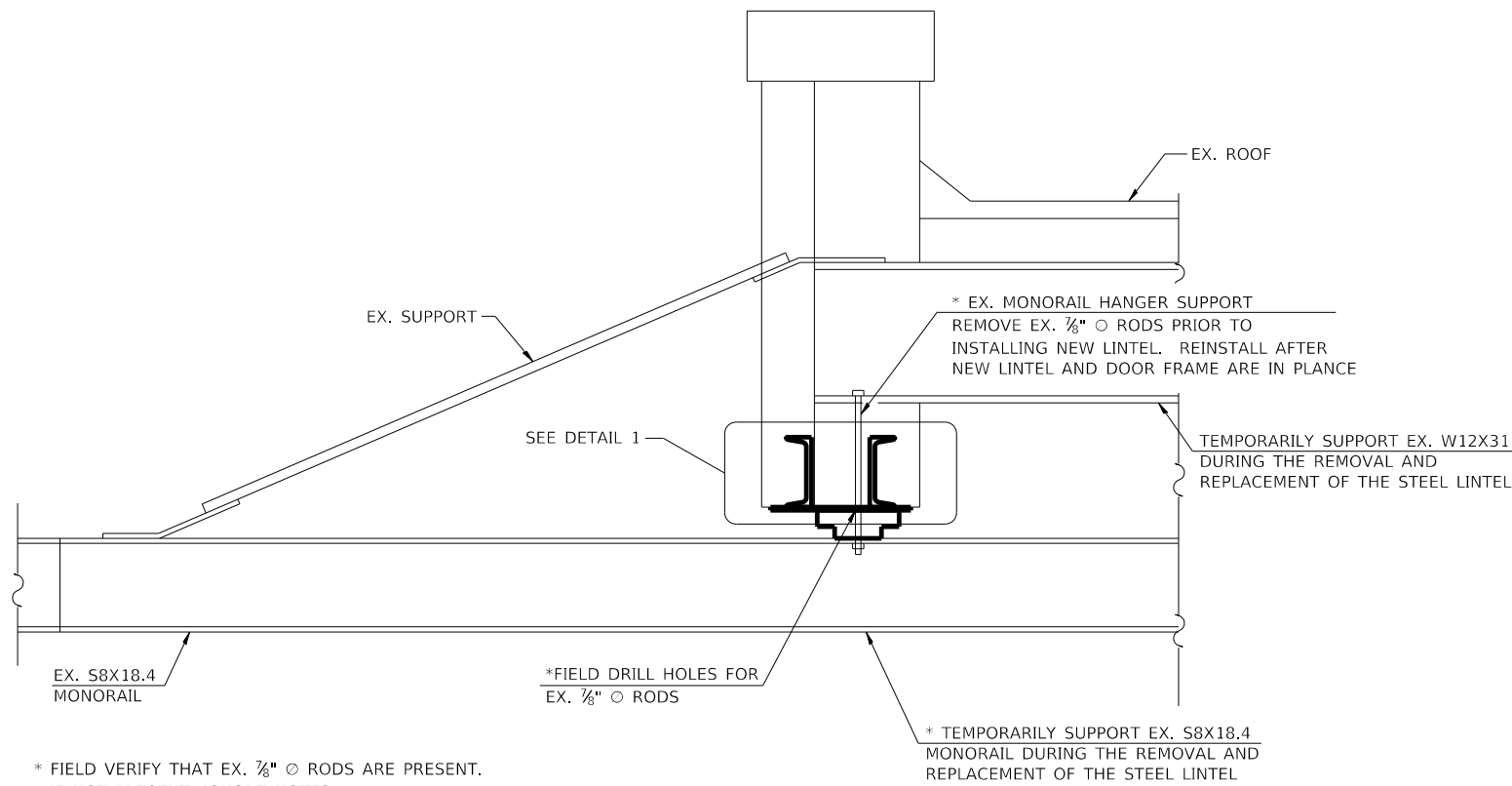
EX. WALL ELEVATION - NORTH WALL
LOOKING SOUTH



EX. WALL ELEVATION - WEST WALL
LOOKING EAST

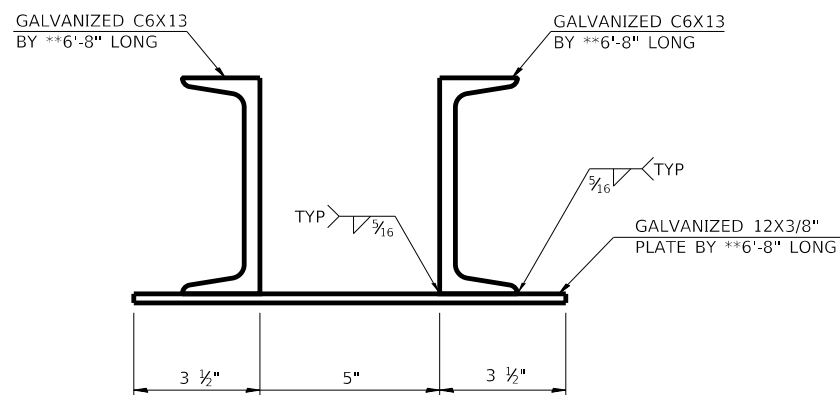
- NOTE:
- 1) NO SALVAGE, UNLESS NOTED OTHERWISE
 - 2) THE COST OF ALL STEEL REMOVAL SHALL BE INCLUDED IN "STRUCTURAL STEEL REMOVAL"
 - 3) THE COST OF ALL MASONRY REMOVAL SHALL BE INCLUDED IN "MASONRY REMOVAL"
 - 4) SEE SHEET 7 OF 8 FOR SECTION A-A.
 - 5) SEE SHEET 8 OF 8 FOR DETAIL 4.
 - 6) THE EXISTING STRUCTURE SHALL BE TEMPORARILY SUPPORTED DURING CONSTRUCTION IN SUCH A WAY THAT THE EXISTING ROOF AND PARAPETS ARE NOT DAMAGED OR AFFECTED. COST INCLUDED IN "MASONRY WALL CONSTRUCTION"
 - 7) MASONRY UNITS REMOVED DURING MASONRY REMOVAL SHALL SALVAGED AND REUSED IF DETERMINED TO BE IN GOOD QUALITY. COST SHALL BE INCLUDED IN "MASONRY REMOVAL"
 - 8) CONTRACTOR SHALL FIELD VERIFY ALL DOOR DIMENSIONS PRIOR TO DOOR FABRICATION
 - 9) THE EXISTING DOOR ALARM SYSTEM SHALL BE REMOVED AND SALVAGED. ALARM SYSTEM SHALL REMAIN THE PROPERTY OF IDOT D8. CALL PETE SAWYER AT 618-346-3275 TO ARRANGE DELIVERY

- COMPLETE BRICK WALL REPLACEMENT (REPLACE ALL 3 WYTHES)
- TUCKPOINT EXISTING BRICK FACE



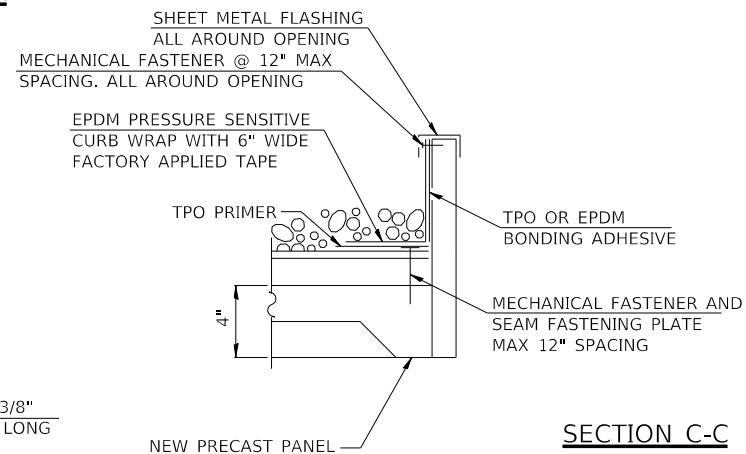
* FIELD VERIFY THAT EX. 1/8" Ø RODS ARE PRESENT. IF NOT PRESENT, IGNORE NOTES.

SECTION A-A

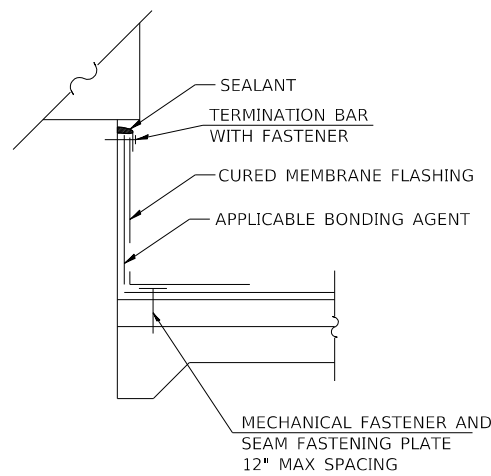


DETAIL 1

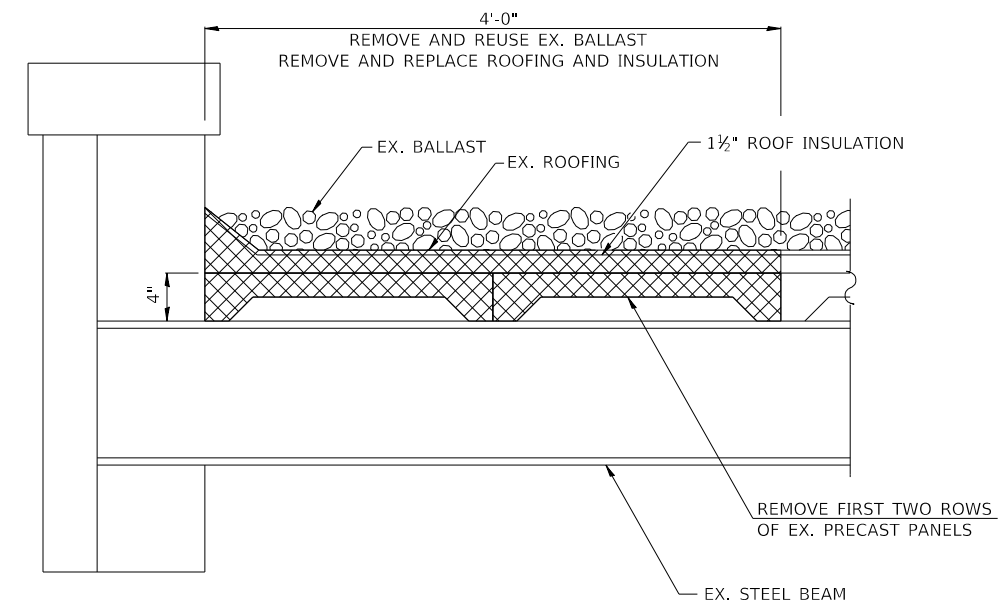
** PROVIDE MIN. 8" BEARING ON EACH SIDE OF EXISTING OPENING



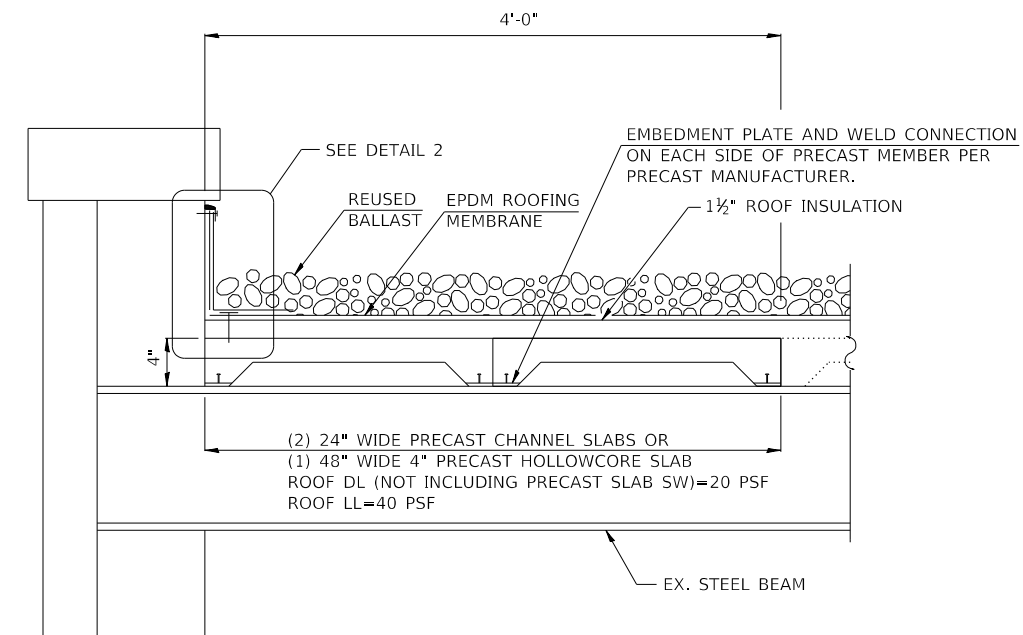
SECTION C-C



DETAIL 2



DEMOLITION



NEW CONSTRUCTION

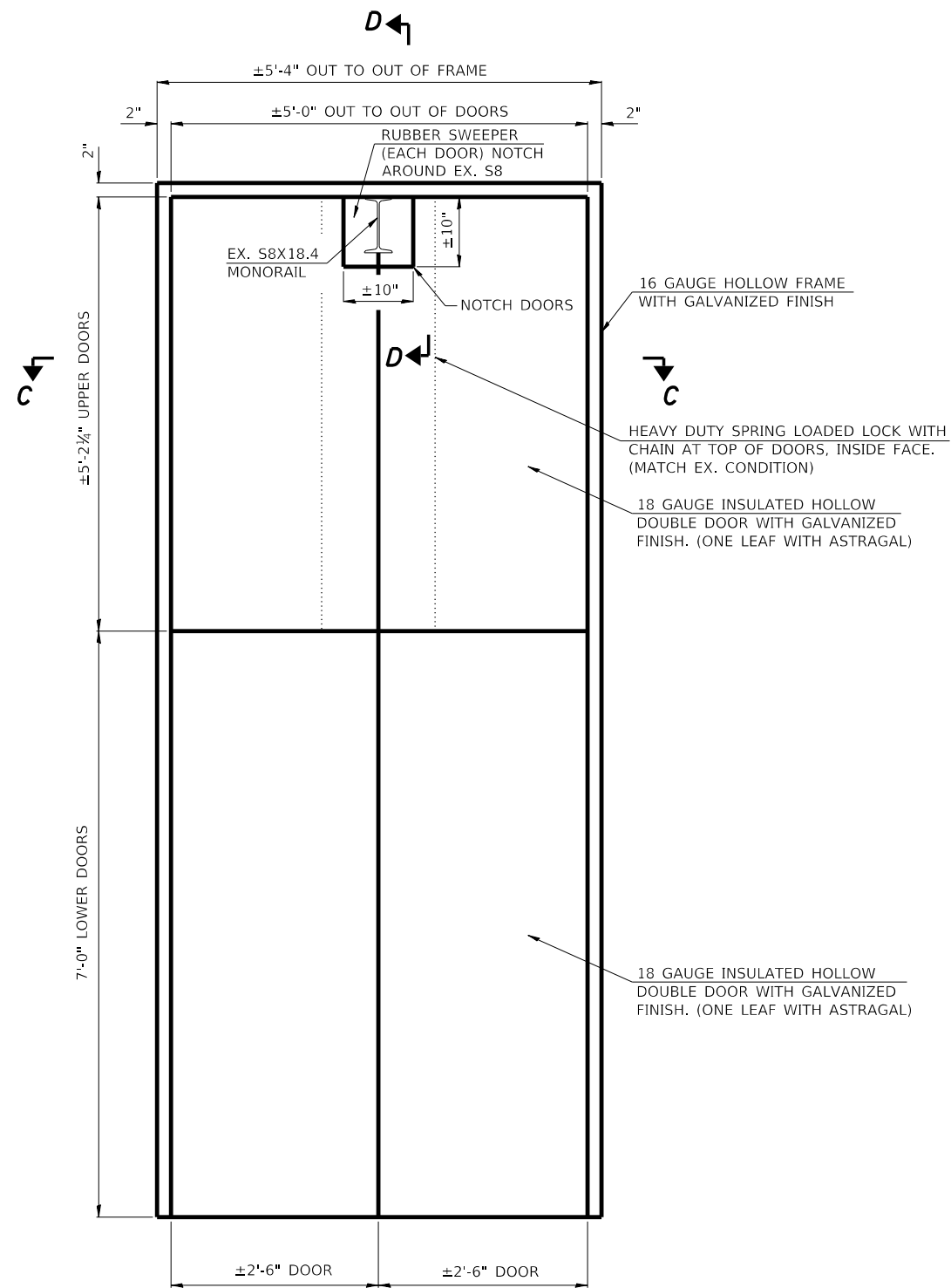
SECTION B-B

NOTE:

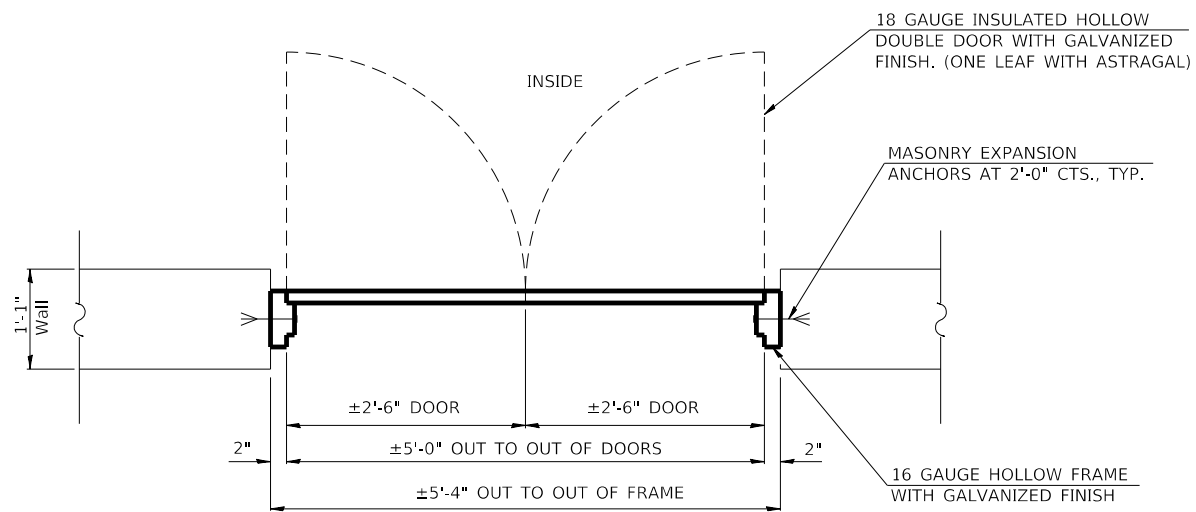
- 1) THE EXISTING STRUCTURE SHALL BE TEMPORARILY SUPPORTED DURING CONSTRUCTION IN SUCH A WAY THAT THE EXISTING ROOF AND PARAPETS ARE NOT DAMAGED OR AFFECTED. COST INCLUDED IN "MASONRY WALL CONSTRUCTION"
- 2) THE COST OF REMOVING THE EXISTING PRECAST ROOF PANELS, EPDM ROOFING, FLASHING, AND INSULATION AND REPLACING THEM WITH NEW PRECAST HOLLOW CORE PANELS, EPDM ROOFING, FLASHING, AND INSULATION SHALL BE INCLUDED IN "PUMP STATION GENERAL WORK"

USER NAME = oms	DESIGNED - AMS	REVISED -
PLOT SCALE = 2.0000' / 1" =	DRAWN - ADL	REVISED -
PLOT DATE = 6/6/2018	CHECKED - AMS	REVISED -
	DATE - ADL	REVISED -

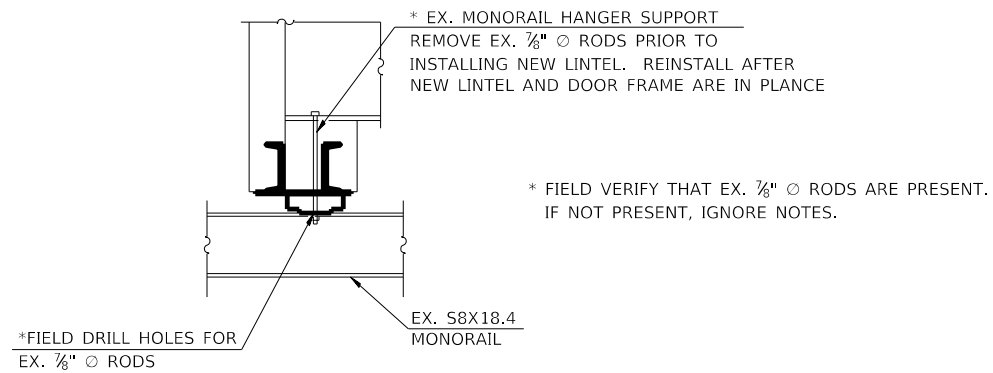
F.A.U. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	82-2-IPS-1	ST. CLAIR	8	7
CONTRACT NO. 76L45				
ILLINOIS FED. AID PROJECT				



DETAIL 4



SECTION C-C



SECTION D-D

- NOTE:
- 1) THE COST OF HOLLOW DOOR AND FRAME SHALL BE INCLUDED IN "PUMP STATION GENERAL WORK"
 - 2) CONTRACTOR SHALL FIELD VERIFY ALL DOOR DIMENSIONS PRIOR TO DOOR FABRICATION
 - 3) THE EXISTING DOOR ALARM SYSTEM SHALL BE REMOVED AND SALVAGED. ALARM SYSTEM SHALL REMAIN THE PROPERTY OF IDOT D8. CALL PETE SAWYER AT 618-346-3275 TO ARRANGE DELIVERY
 - 4) DOOR ACCESSORIES SHALL BE PROVIDED AS DESCRIBED IN THE SPECIAL PROVISIONS.