### 06-12-2015 LETTING ITEM 140

#### INDEX OF SHEETS

- COVER SHEET
- GENERAL NOTES
- SUMMARY OF QUANTITIES
- TRAFFIC CONTROL AND PROTECTION
- DEMOLITION PLANS
- ELEVATIONS
- STRUCTURAL DETAILS

#### **HIGHWAY STANDARDS**

000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

001001-02 AREAS OF REINFORCEMENT BARS

701101-04 OFF-ROAD OPERATIONS, MULTILANE, 15 (4.5 M) TO 24 (600 MM) FROM PAVEMENT EDGE

701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15 (4.5 M) AWAY URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN 701801-05 LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE

701901-04 TRAFFIC CONTROL DEVICES

720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS

728001-01 TELESCOPING STEEL SIGN SUPPORT

729001-01 APPLICATIONS OF TYPES A AND 8 METAL POSTS (FOR SIGNS & MARKERS)

## STATE OF ILLINOIS

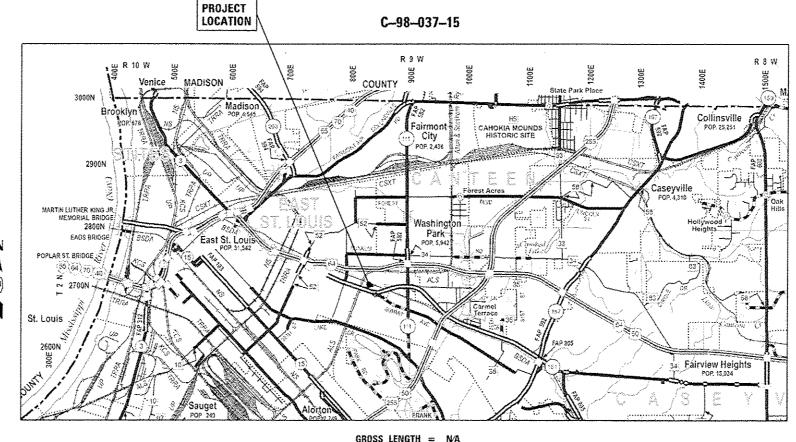
## DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

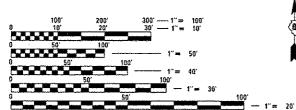
# **PROPOSED** HIGHWAY PLANS

**FAU ROUTE 9166 (ST. CLAIR AVE.)** SECTION 33-T-1

# PUMP STATION IMPROVEMENTS ST. CLAIR COUNTY



NET LENGTH = NA



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.LE.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

OR 811

PROJECT ENGINEER: PATTI LEBEAU PROJECT MANAGER: PHILLIP SAWYER SQUAD LEADER:

618-346-3179 618-346-3275 MICHAEL PRESTON 618-346-3143

CONTRACT NO. 76H86

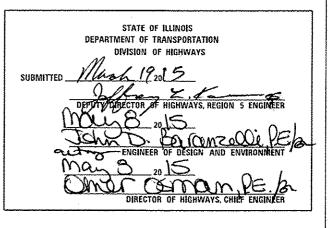
Ph (217)223-3676 - Fux (217)223-3603 Ph (573)221-4020 - Fux (573)221-0012 Ph (319)753-1636 - Fux (319)752-3605 Ph (309)342-4042 - Fux (309)341-3781 Internet Address: STATE OF ILUNOIS DESIGN FIRM # 1842738

3/5/2015

D-98-042-15

ST. CLAIR 9 1 ILLINOIS CONTRACT NO. 76H86





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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#### **DESIGN CRITERIA**

1. DESIGN LOADS: (PER IBC 2012)

A. PLATFORM DEAD LOAD = 20PSF B. PLATFORM LIVE LOAD = 40PSF

#### **GENERAL NOTES**

- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECTED 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.
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- 3. 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.
- 4. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS. 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 COST OF FURNISHING AND ERECTING STRUCTURAL STEEL, SPECIAL,
- 5. 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 ACREEING 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.
- 6. DRAWINGS ARE NOT TO SCALE.
- 7. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE EXISTING PUMP STATION BUILDING.
- 8. TRAFFIC CONTROL SHALL BE IN PLACE AND THE EXISTING PUMP STATION SHALL BE BYPASSED PRIOR TO PERFORMING ANY WORK IN THE EXISTING PUMP STATION.
- 9. 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. (1-800-892-0123 OR 811) OR FOR NON-MEMBERS THE UTILITY COMPANY DIRECTLY.
- 10. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN A 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 FLAT WORK, BLUEPRINT READING, SITE PLANS SITE WORK, TOOLS, ETC.) AND OSHA ID 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 BE EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 616-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS

#### STRUCTURAL STEEL

- DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC SPECIFICATIONS AND STANDARD CODE OF PRACTICE.
- 2. STEEL FABRICATION AND ERECTION SHALL FOLLOW OSHA REQUIRMENTS.
- ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE", AWS DI.1. LATEST EDITION.
- ALL STRUCTURAL STEEL, HANDRAILS AND POSTS, AND GRATING SHALL BE HOT DIPPED GALVANIZED. SEE SPECIAL PROVISION.
- 5. GRATING SHALL BE 1"X 3/16" GALVANIZED, TYPE 19-W-4, WELDED STEEL BAR GRATING. MATERIAL SHALL COMPLY WITH ASTM A-1011. ATTACH GRATING PANELS WITH TYPE H-3 GALVANIZED SADDLE CLIPS, EACH GRATING PANEL SHALL HAVE A MINIMUM OF TWO (2) CLIPS PER SUPPORTING MEMBER. GRATING SHALL BE FABRICATED SO THAT THE CROSS BARS OF ADJACENT PANELS ARE ALIGNED WHEN INSTALLED. EXPOSED ENDS OF THE GRATING SHALL HAVE WELDED BANDING.
- 6. REPAIR GALVANIZED SURFACES PER ASTM A780.
- 7. WEIGHT OF STRUCTURAL STEEL:
  a. GRADE 36 STEEL = 150 lbs
  b. GRADE A53 STEEL = 70 lbs
  c. ASTM A-1011 CRATING = 30 lbs
- 8. WEIGHT OF STRUCTURAL STEEL REMOVAL = 670 lbs
- 9. 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"

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engineers - Architects - Surveyors PLot Date + 3/5/2015	DATE -	BEVISE

GENERAL NOTES	F.A.U. RTE,	SECTION	COUNTY	TOTAL	SHEET NO.	
VENICE DEEP WELL PUMP STATION	IMPROVEMENTS	9166	33-T-i	ST. CLAIR CONTRACT	9 NO.	2 76H86
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#### ILLINOIS DEPARTMENT OF TRANSPORTATION

#### SUMMARY OF QUANTITIES

			And a second sec	CONSTRUCTION TYPE CODE		
			100% STATE			
CODE NO.	ITEM	UNIT	TOTAL			
		The second secon	QUANTITY	0040		
		***	1	URBAN		
50102400	CONCRETE REMOVAL	CU YD	0.7	0.7		
67100100	MOBILIZATION	L SUM	1	1		
70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	L SUM .	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70107004	PAVEMENT MARKING BLACKOUT TAPE, 4"	FOOT	1230	1230		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	410	410		
Z0001904	STRUCTURAL STEEL REMOVAL	L SUM	1	1		
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	1	<b>*</b>		
X5051200	FURNISHING AND ERECTING STRUCTURAL STEEL, SPECIAL	L SUM	1	7		
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& ASSOCIATES, P.C.	PLUI SLALE * ZKLONGO '/ IO.	CHECKED -	REVISED -
Engineers · Architects · Surveyors	PLOT DATE + 3/5/2015	DATE -	REVISED -

STATE	: 01	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

SUMMARY OF QUANTITIES								
		42NI	STR	EET PUMP ST	ration .		9186	
	,							
NONE	SHEET	1	OF 1	SHEETS STA	. TO	STA.		

	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.					
	9186	33~1~1	ST. CLAIR	9	3					
_			CONTRACT	NO. 7	6H86					
	ILLINOIS FED. AID PROJECT									

#### **SYMBOLS**

ARROW BOARD

CHANNELIZER CONE

SIGN ON PORTABLE OR PERMANENT SUPPORT



WORK AREA

BARRICADE OR DRUM WITH FLASHING LIGHT

TYPE III BARRICADE WITH FLASHING LIGHTS

#### NOTES:

STATIONING BASED OFF OF EXISTING PLANS AND HAS NOT BEEN FIELD VERIFIED.

ALL VEHICULAR TRAFFIC CONTROL AND PROTECTION SHOWN SHALL BE PAID FOR AS "TRAFFIC CONTROL AND PROTECTION, STANDARD 701611)".

CLOSE PEDESTRIAN ACCESS TO THE NORTH SIDEWALK ACCORDING TO HIGHWAY STANDARD 701801.

EXIST. CURVE A1 PI STA. = 1022+59.24

 $\triangle$  = 36° 48′ 01′′ (LT)

D = 3° 17′ 58′′

R = 1,736.48'

T = 577.66'

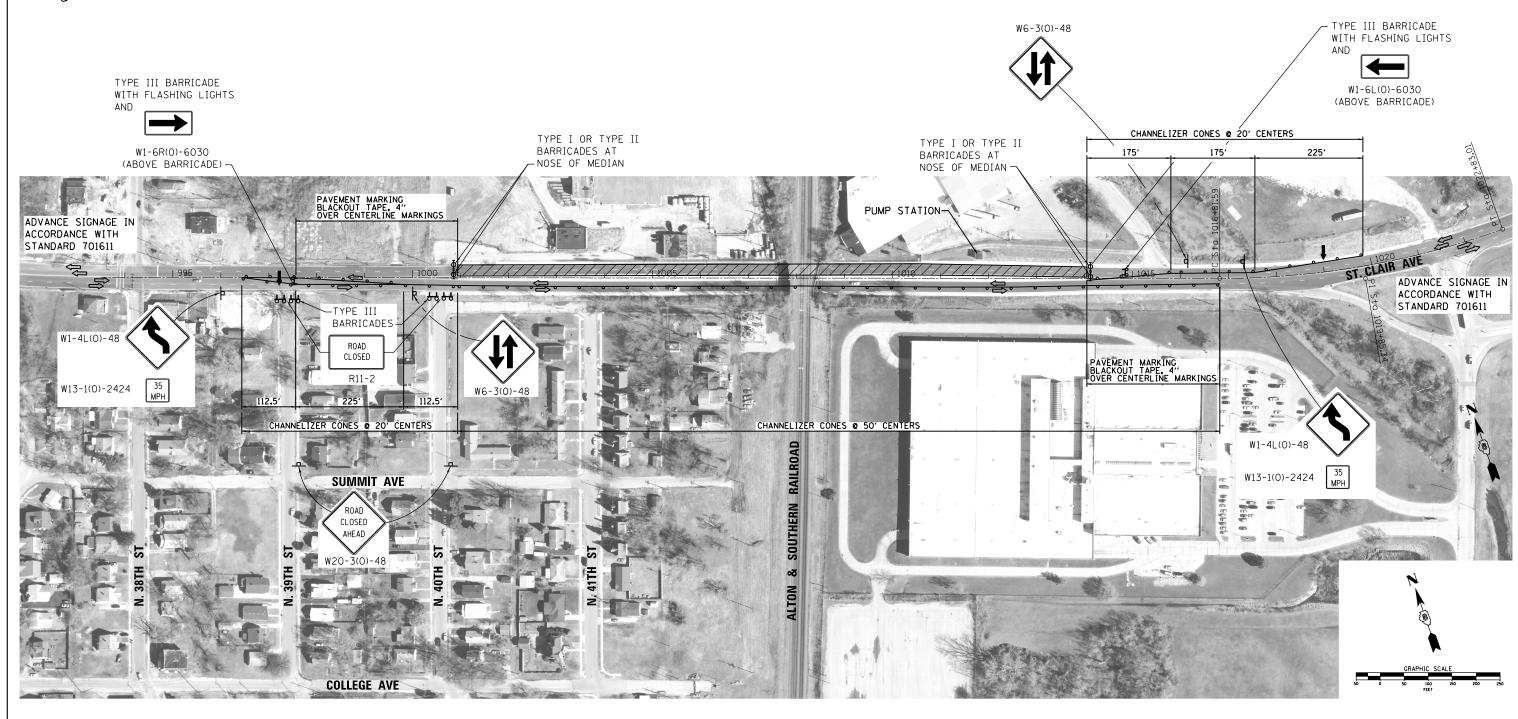
L = 1,115.32'E = 95.56'

e = \_\_\_\_

T.R. = \_\_\_\_

S.E. RUN = \_\_\_\_ P.C. STA. = 1016+81.59

P.T. STA. = 1027+96.91

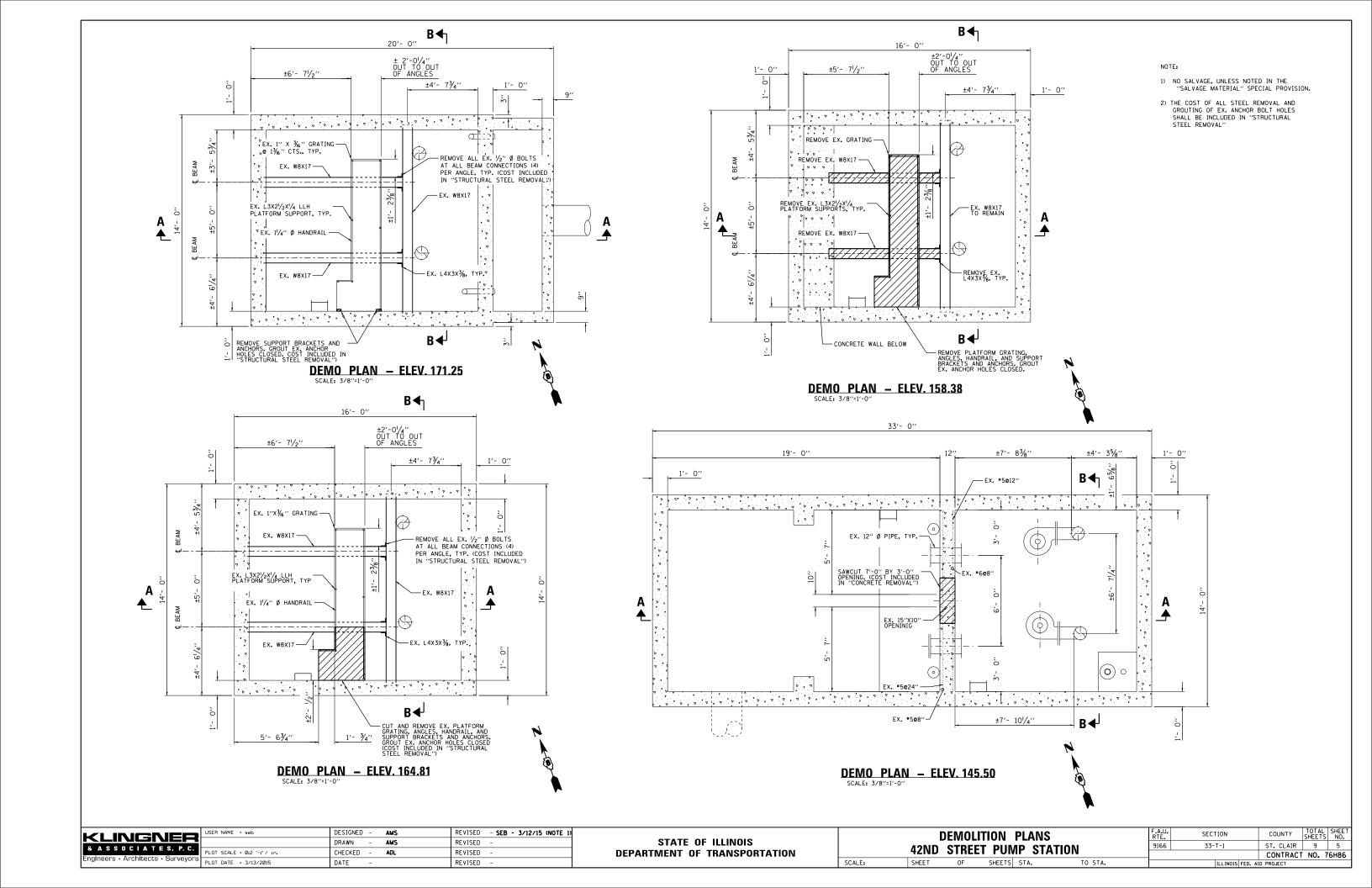


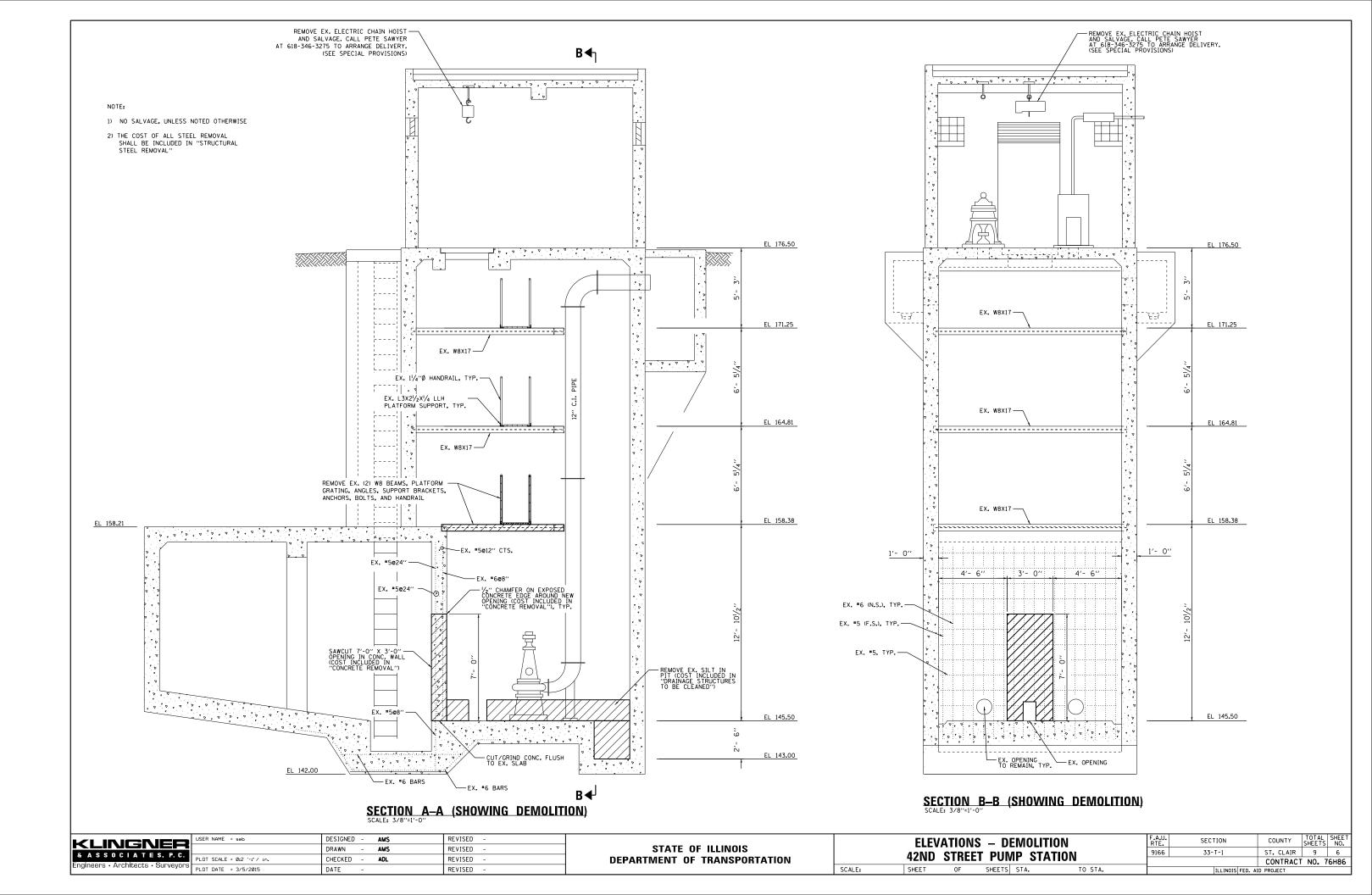
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& ASSOCIATES, P.C.	Г
Engineers · Architects · Surveyors	Г

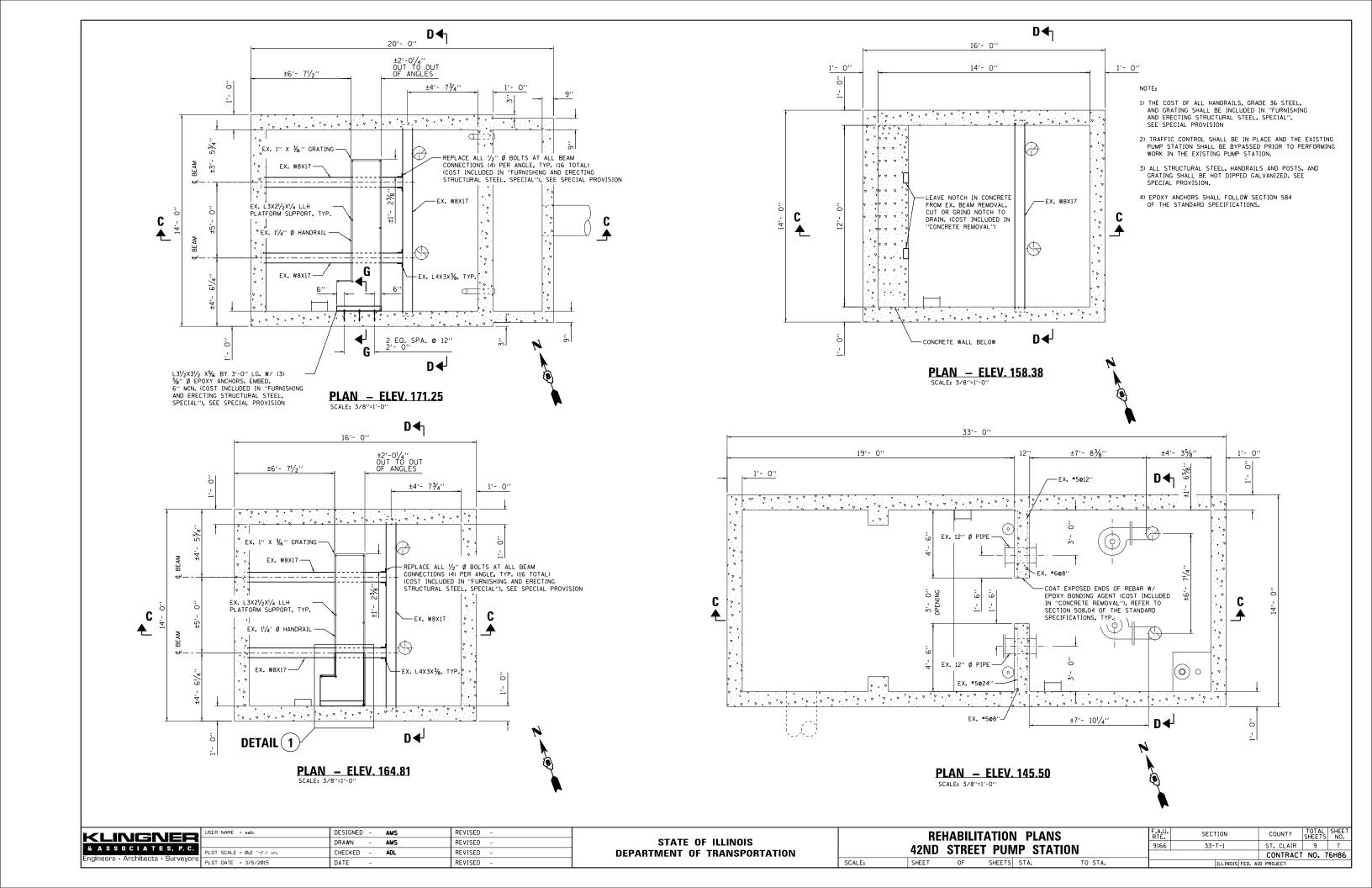
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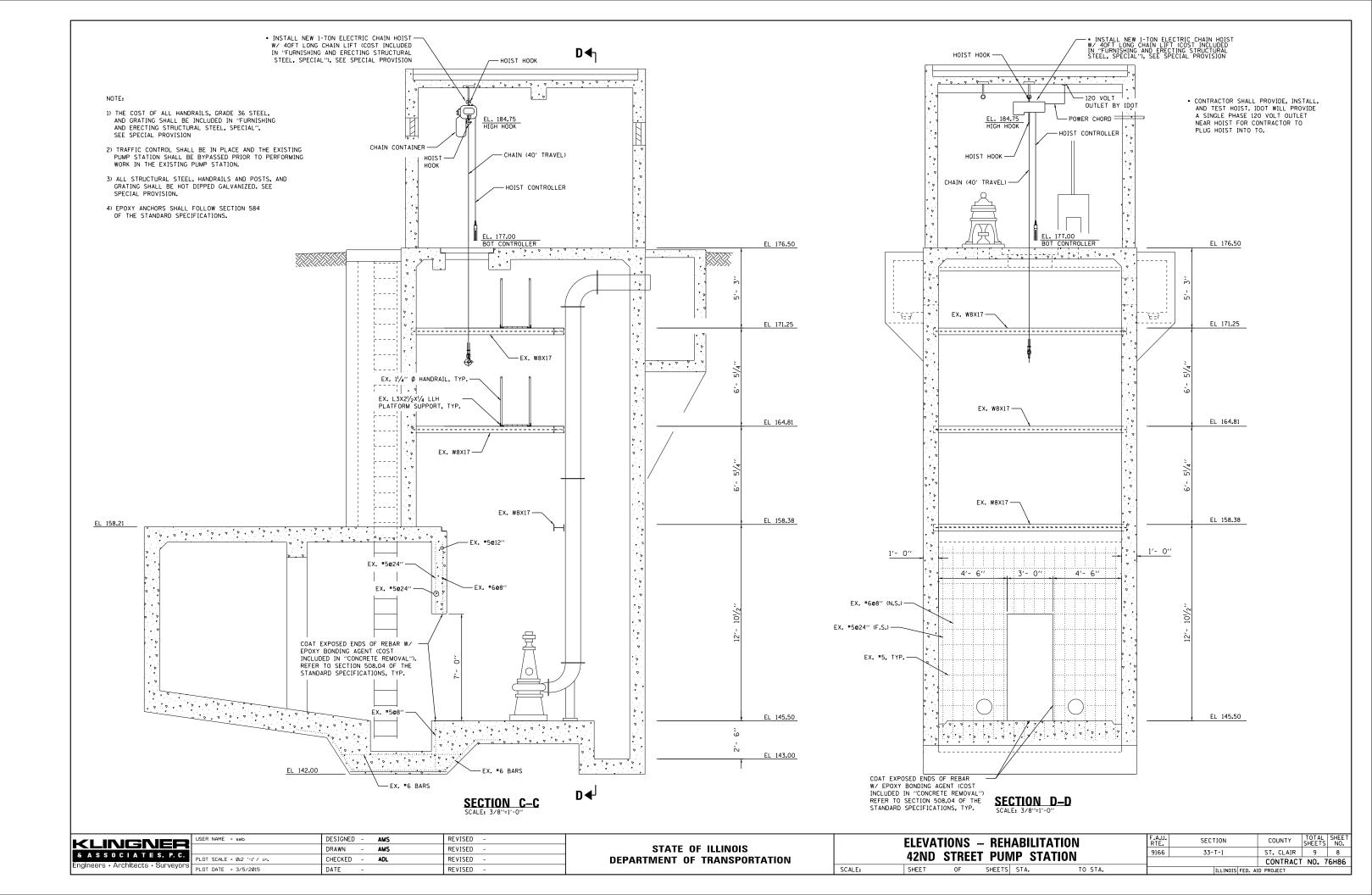
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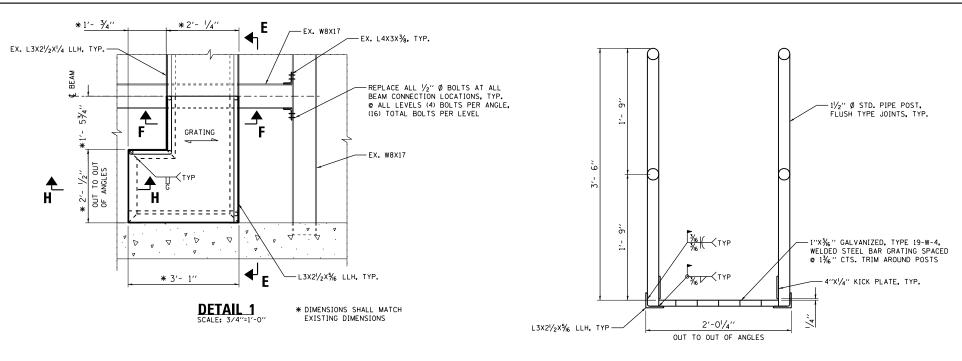
TRAFFIC CONTROL AND PROTECTION						F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.		
	42ND STREET PUMP STATION					9166	33-T-1	ST. CLAIR	9	4		
	4ZIND SINCEL PUNIF STATION								CONTRAC	NO.	76н86	
SCALE:	1''=100'	SHEET 1	OF	1	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



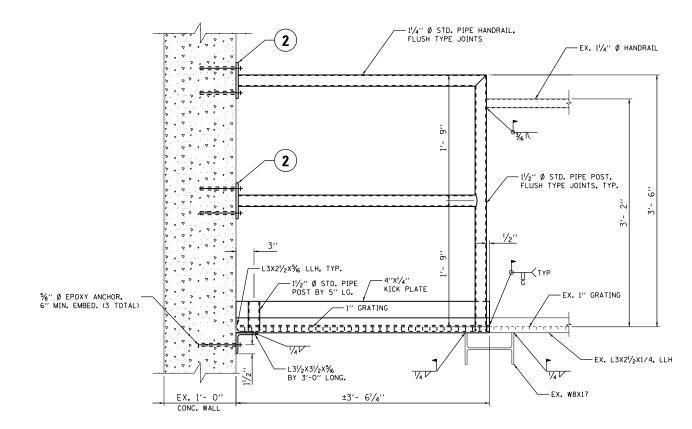




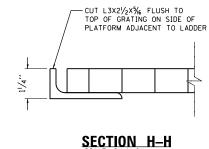


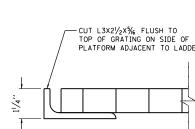


# SECTION F-F

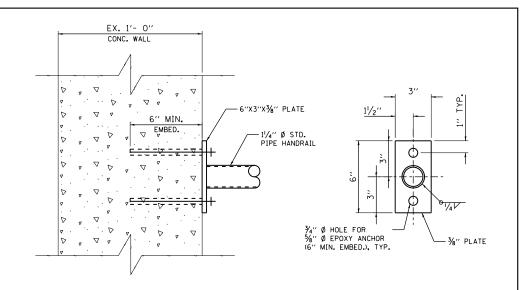


SECTION E-E

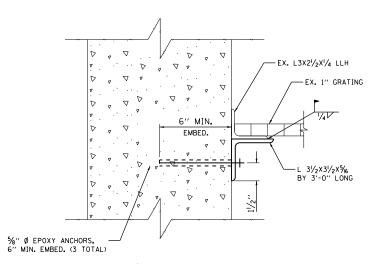




SCALE:



## **DETAIL 2 — TYPICAL RAILING CONN. TO WALL**



SECTION G-G

#### NOTE:

- 1) THE COST OF ALL HANDRAILS, GRADE 36 STEEL, AND GRATING SHALL BE INCLUDED IN "FURNISHING AND ERECTING STRUCTURAL STEEL, SPECIAL",
- 2) TRAFFIC CONTROL SHALL BE IN PLACE AND THE EXISTING PUMP STATION SHALL BE BYPASSED PRIOR TO PERFORMING WORK IN THE EXISTING PUMP STATION.
- 3) ALL STRUCTURAL STEEL, HANDRAILS AND POSTS, AND GRATING SHALL BE HOT DIPPED GALVANIZED. SEE SPECIAL PROVISION.
- 4) EPOXY ANCHORS SHALL FOLLOW SECTION 584 OF THE STANDARD SPECIFICATIONS.

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& ASSOCIATES, P.C.	Р
Engineers · Architects · Surveyors	Р

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

REHABILITATION DETAILS 42ND STREET PUMP STATION					
	SHEET	OF	SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9166 33-T-1		ST. CLAIR	9	9
		CONTRACT	NO. 7	'6н86
	ILLINOIS FED. A	ID PROJECT		