

04-27-2018 LETTING ITEM 111

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	1
ILLINOIS CONTRACT NO. 60C48				

*156+2= 158 TOTAL SHEETS
C-91-226-07

FOR INDEX OF SHEETS, SEE SHEET NO. 2



DATE: 01/19/2018
EXPIRATION: 11/30/2019
SHEET NUMBERS: 105-113

FAU 3512 U.S. 14 AT WISCONSIN CENTRAL LTD & UP RAILROAD

PROPOSED HIGHWAY PLANS
SECTION 86 S-1-1
PROJECT STP-NPP-KHEE (555)
PUMP STATION NO. 8 RELOCATION
COOK COUNTY

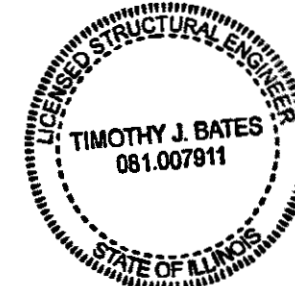


DATE: 01/19/2018
EXPIRATION: 11/30/2019
SHEET NUMBERS: 114-119

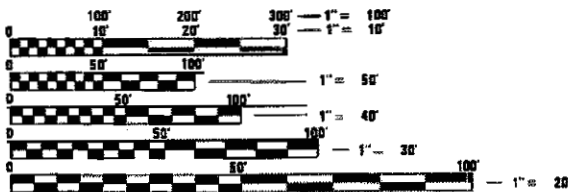


DATE: 01/19/2018
EXPIRATION: 11/30/2019
SHEET NUMBERS: 2-21

DESIGN DESIGNATION:
MINOR ARTERIAL
(US ROUTE 14)
2013 ADT= 16,100
DESIGN SPEED= 30 MPH
POSTED SPEED= 30 MPH



DATE: 01/19/2018
EXPIRATION: 11/30/2019
SHEET NUMBERS: 65-104



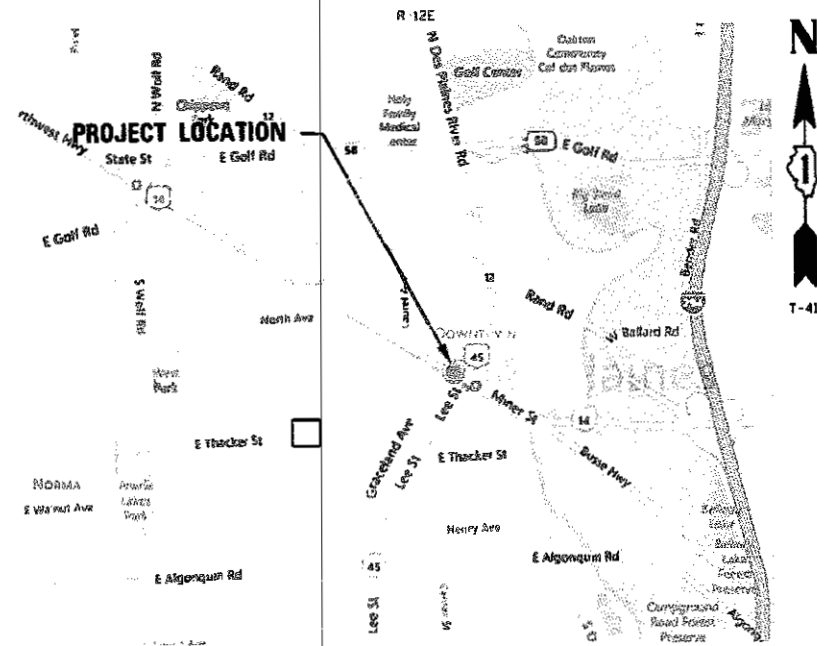
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

ALL UTILITY LOCATION INFORMATION FOR EXCAVATION CALL JULIE
1-800-892-0123
OR 811

ALSO CALL IDOT ELECTRICAL MAINTENANCE CONTRACTOR FOR UTILITY LOCATIONS WITHIN IDOT R.O.W.
MEADE ELECTRIC CO. 773-287-7672



DATE: 01/19/2018
EXPIRATION: 11/30/2019
SHEET NUMBERS: 120-156



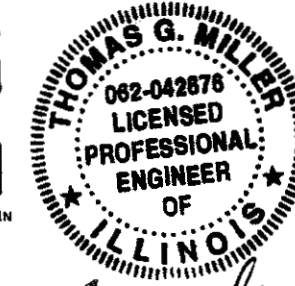
CITY OF DES PLAINES

LOCATION MAP

SCALE: 0 500 1,000 2,000 FT.



LOCATION OF SECTION INDICATED THIS: -



DATE: 01/19/2018
EXPIRATION: 11/30/2019
SHEET NUMBERS: 22-64

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 1 Feb 20 19
Anthony Crigley / 10/17 REGIONAL ENGINEER
Mar 23 20 18
A. E. K.
Mar 29 20 18
ENGINEER OF DESIGN AND ENVIRONMENT
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT MANAGER: MARK JENKINS 847-705-4350



CONTRACT NO. 60C48

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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	USER NAME *	DESIGNED - LRE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PUMP STATION NO. 8 RELOCATION INDEX			RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE *	DRAWN - LRE	REVISED -					US 14	86 S-1-1	COOK	156	2
	PLOT DATE *	CHECKED - PMS	REVISED -					NORTHWEST HIGHWAY	CONTRACT NO. 60C48			
		DATE - 09-29-17	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		

ABBREVIATIONS

- AGG - AGGREGATE
- B/C - BACK OF CURB
- BIT - BITUMINOUS/ASPHALT
- CIP - CAST IRON PIPE
- CO - CLEANOUT
- CONC - CONCRETE
- CMP - CORRUGATED METAL PIPE
- CSP - CONCRETE SEWER PIPE
- DIA - DIAMETER
- DIP - DUCTILE IRON PIPE
- EXTC - EXISTING
- EOP - EDGE OF PAVEMENT
- F&C - FRAME AND COVER
- F/C - FACE OF CURB
- F-F - FACE TO FACE
- F/G - FINISHED GRADE
- FES - FLARED END SECTION
- HMA - HOT-MIX ASPHALT
- INV - INVERT
- L - LENGTH OF CURVE
- LF - LINEAR FT
- LT - LEFT
- NG - NATURAL GAS
- OH - OVERHEAD UTILITY
- PC - POINT OF CURVATURE
- PE - POLYETHYLENE PIPE
- PI - POINT OF INTERSECTION
- PL - PROPERTY LINE
- PT - POINT OF TANGENCY
- PVC - POLYVINYL CHLORIDE PIPE
- PVI - POINT OF VERTICAL INTERSECTION
- R - RADIUS
- RCP - REINFORCED CONCRETE PIPE
- RIM - TOP OF CASTING ELEVATION
- ROW - RIGHT OF WAY
- RT - RIGHT
- SAN - SANITARY SEWER
- STM - STORM SEWER
- SD - SUMP DISCHARGE
- T/C - TOP OF CURB
- T/W - TOP OF WALL
- UD - UNDERDRAIN
- VC - VERTICAL CURVE

LEGEND

- | | | |
|---|---|--|
| <p>EXISTING</p> <ul style="list-style-type: none"> | <p>PROPOSED</p> <ul style="list-style-type: none"> | <ul style="list-style-type: none"> BENCHMARK CATCH BASIN CULVERT CULVERT OVER 24" (SHOWN ACTUAL SIZE) GAS VALVE GUY WIRE HAY BALES HEADWALL HYDRANT INLET IRON PIPE MANHOLE MARSH UTILITY POLE SECTION CORNER SIGN SPOT ELEVATION SOIL BORING SURVEY CONTROL POINT PROPERTY MARKER TREE CONIFEROUS, DECIDUOUS TREE REMOVAL TREE/SHRUB LINE WATER VALVE POWER POLE SERVICE LIGHT POLE |
|---|---|--|

STATE HIGHWAY STANDARDS:

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 442201-03 CLASS C AND D PATCHES
- 601001-05 SLAB-SURFACE DRAINS
- 602401-04 MANHOLE TYPE A
- 602411-06 MANHOLE TYPE A 7' DIAMETER
- 602416-06 MANHOLE TYPE A 8' DIAMETER
- 602701-02 MANHOLE STEPS
- 604001-04 FRAME AND LIDS TYPE 1
- 637001-05 CONCRETE BARRIER, DOUBLE FACE, 32 IN. HEIGHT
- 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701427-05 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS 40 MPH
- 701506-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701511-01 URBAN HALF ROAD CLOSURE MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701901-07 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

LINE TYPE IDENTIFICATION

- | | | |
|---|---|---|
| <p>EXISTING</p> <ul style="list-style-type: none"> | <p>PROPOSED</p> <ul style="list-style-type: none"> | <ul style="list-style-type: none"> AERIAL LINE CABLE TV CENTERLINE OF ROAD CONTOUR DITCH/SWALE FENCE ELECTRIC FIBER OPTIC GAS GUARDRAIL OVERHEAD ELECTRIC PIPE, ABANDON PIPE, PREVIOUSLY ABANDONED PIPE, REMOVE PROPERTY LINE (EXISTING RIGHT OF WAY) PROPOSED PERMANENT EASEMENT PROPOSED TEMPORARY CONSTRUCTION EASEMENT R.O.W. MARKER RAILROAD SANITARY SEWER SILT FENCE STORM SEWER OR FORCE MAIN EXISTING OUTFALL SEWER TELEPHONE WATER |
|---|---|---|

MATCHING PATTERNS

- DEMOLITION
- PROPOSED GRAVEL PAVING
- PROPOSED HMA PAVING
- PROPOSED CONCRETE PAVING
- REMOVE EXISTING HMA PAVING
- REMOVE EXISTING CONCRETE PAVING
- SEEDING

THIS IS STANDARD LEGEND. NOT ALL OF THE INFORMATION SHOWN ON THIS LEGEND IS NEEDED IN THESE CONTRACT DRAWINGS.

	USER NAME *	DESIGNED - LRE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PUMP STATION NO. 8 RELOCATION CIVIL LEGEND AND HIGHWAY STANDARDS			RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
	PLOT SCALE *	CHECKED - PMS	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	US 14	86 S-1-1	COOK	156	3
	PLOT DATE *	DATE - 09-29-17	REVISED -		ILLINOIS FED. AID PROJECT	CONTRACT NO. 60C48									

REV

URBAN 80/20 (FED/STATE)

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0044	0044
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	80	80	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	22	22	
20101000	TEMPORARY FENCE	FOOT	325		325
20200100	EARTH EXCAVATION	CU YD	400	400	
20800150	TRENCH BACKFILL	CU YD	1,170	313	857
20900110	POROUS GRANULAR BACKFILL	CU YD	5	5	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	105		105
21101805	COMPOST FURNISH AND PLACE, 2"	SQ YD	941		941
25000300	SEEDING, CLASS 3	ACRE	0.5	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	43	25	18
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	43	25	18
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	43	25	18
25100115	MULCH, METHOD 2	ACRE	0.25		0.25
25100630	EROSION CONTROL BLANKET	SQ YD	941		941
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	40		40
28000400	PERIMETER EROSION BARRIER	FOOT	701	400	301
28000510	INLET FILTERS	EACH	8		8
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	254	100	154
35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	325	325	
40600275	BITUMINOUS MATERIALS (PRIME COAT) POUND BIT MATLS PR CT	POUND	250	250	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	29		29
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	45	45	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	27	27	
42001300	PROTECTIVE COAT	SQ YD	55		55
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	100	100	
44000100	PAVEMENT REMOVAL	SQ YD	128		128
44000400	GUTTER REMOVAL	FOOT	33		33
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	105	95	10
50300225	CONCRETE STRUCTURES	CU YD	1,270	1,270	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	272,787	272,787	
51603000	DRILLED SHAFT IN SOIL	CU YD	33	33	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	17,436		17,436
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	42		42
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	30	30	

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URBAN 80/20 (FED/STATE)

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0044	0044
550A1100	STORM SEWERS, CLASS A, TYPE 4 60"	FOOT	133		133
550A1370	STORM SEWERS, CLASS A, TYPE 5 60"	FOOT	157		157
550A1670	STORM SEWERS, CLASS A, TYPE 6 60"	FOOT	63	63	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		1
60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		1
60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		1
60600605	CONCRETE CURB, TYPE B	FOOT	60	60	
60602500	CONCRETE GUTTER, TYPE A	FOOT	33		33
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	10		10
60605300	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (MODIFIED)	FOOT	95	95	
63700155	CONCRETE BARRIER, SINGLE FACE, 32 INCH HEIGHT	FOOT	33		33
63700255	CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT	FOOT	20		20
63700900	CONCRETE BARRIER BASE	FOOT	53		53
66404600	CHAIN LINK GATES, 8' X 3' SINGLE	EACH	1	1	
66409800	CHAIN LINK GATES, 8' X 20' DOUBLE	EACH	1	1	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	745	745	
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	24	24	
67100100	MOBILIZATION	LSUM	1	1	
70300900	PAVEMENT MARKING TAPE TYPE IV, 4"	FOOT	22,248		22,248
70400100	TEMPORARY CONCRETE BARRIER	FOOT	37.5		37.5
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECT), NARROW, TEST LEVEL 3	EACH	1		1
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1238		1238
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4		4
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	6		6
* 78100300	REPLACEMENT REFLECTOR	EACH	152		152
* 80400100	ELECTRICAL SERVICE INSTALLATION	L SUM	1	1	
* 85000500	MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION	EACH	5		5
* Z 0004002	BOLLARDS	EACH	13	13	
X0301028	PUMP STATION SCADA EQUIPMENT (AND PROGRAMMING)	LSUM	1	1	
X0320033	MAINTENANCE OF EXISTING PUMP STATION DURING CONSTRUCTION	CAL MO	24	24	
X0320034	HEATING AND VENTILATION	LSUM	1	1	
X0320035	LOW FLOW PUMP	EACH	1	1	

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* Specialty Item

	USER NAME =	DESIGNED - LRE	REVISED -
	PLOT SCALE =	DRAWN - LRE	REVISED -
	PLOT DATE =	CHECKED - PMS	REVISED -
		DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION
SUMMARY OF QUANTITIES
SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	4
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

G3

REV

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0040	0044
X0320036	MAIN PUMPS	EACH	3	3	
X0320882	CUTTERS TO BE CLEANED	FOOT	148		148
X0323880	COMPLETE SPARE MAIN PUMP ASSEMBLY	LSUM	1	1	
X0323881	COMPLETE SPARE LOW FLOW PUMP ASSEMBLY	LSUM	1	1	
X0326401	BARRIER WALL REMOVAL	FOOT	53		53
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SA FT	386		386
X0335700	PUMP STATION GENERAL WORK	LSUM	1	1	
X0783300	PUMP STATION ELECTRICAL WORK	LSUM	1	1	
X0783500	PUMP STATION MECHANICAL WORK	LSUM	1	1	
X1400159	TELEPHONE SERVICE INSTALLATION AND CONNECTION	L SUM	1	1	
X1400160	PUMP STATION PACKAGE ENGINE GENERATOR SYTEMS	L SUM	1	1	
X1400162	PUMP STATION MOTOR CONTROL CENTER	L SUM	1	1	
X1400163	AEGIS PANEL	L SUM	1	1	
X1400164	FIRE DETECTION PANEL	L SUM	1	1	
X1400165	GAS DETECTION PANEL	L SUM	1	1	
X2020502	BRACED EXCAVATION	CU YD	6,300	6,300	
X3400002	DEMOLITION OF EXISTING PUMP STATION	L SUM	1	1	
X5504026	STORM SEWERS, DUCTILE IRON, TYPE 2 24"	FOOT	10		10
X6640570	CHAIN LINK FENCE, 8' (SPECIAL)	FOOT	215	215	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1		1
X7010410	SPEED DISPLAY TRAILER	LAL MD	3		3
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	56		56
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SA FT	3708		3708
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	3		3
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	152		152
X8040305	ELECTRIC SERVICE CONNECTION	LSUM	1	1	
Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SO YD	84		84
Z0013798	CONSTRUCTION LAYOUT	LSUM	1		1
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4		51.4
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1		1
Z0056626	STORM SEWER (WATER MAIN REQUIREMENTS) 48 INCH	FOOT	30		30
Z0075500	TIMBER RETAINING WALL	SO FT	390		390
Z0075505	TIMBER RETAINING WALL REMOVAL	FOOT	260		260
X1700065	CLASS D PATCHES, TYPE IV, 10 INCH (SPECIAL)	SO YD	159		159
X1200192	FORCE MAIN, 16" DIP, CLASS 250	FOOT	231	231	
X1200193	FORCE MAIN, 16" DIP, CLASS 250, INSTALL IN A 30" STEEL CASING PIPE	FOOT	121	121	
X1400298	ELECTRICAL CONDUIT, HDD METHOD	FOOT	60	60	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0040	0044
X1700191	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID (SPECIAL)	EACH	4		4
Z0076600	TRAINEES	HOURL	2500	2500	
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURL	2500	2500	

33

* Specialty Item Ø 0042

G4

	USER NAME =	DESIGNED - LRE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PUMP STATION NO. 8 RELOCATION SUMMARY OF QUANTITIES	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLLOT SCALE =	DRAWN - LRE	REVISED -			US 14	86 S-I-I	COOK	156	5
	PLLOT DATE =	CHECKED - PMS	REVISED -			NORTHWEST HIGHWAY	CONTRACT NO. 60C48			
	DATE - 09-29-17	REVISED -		SCALE:	SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				

Revised

REV

PUMP STATION GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE ITSELF WITH THE EXISTING CONDITIONS, SITE ACCESS, POWER SUPPLY AND OTHER ITEMS THAT AFFECT THE CONTRACT AND THE CONSTRUCTION OF THE IMPROVEMENT.
2. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION OR A CHANGE IN THE SCOPE OF THE WORK.
3. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS HAVE BEEN OBTAINED BY FIELD SURVEYS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THIS DATA IS CORRECT, BUT THE DEPARTMENT AND OTHERS ASSOCIATED WITH THESE PLANS DO NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. ANY VARIATIONS SHALL NOT CAUSE FOR ADDITIONAL COMPENSATION OR A CHANGE IN THE SCOPE OF WORK. THE CONTRACTOR SHALL BE REQUIRED TO VERIFY THE EXACT LOCATION OF EACH FACILITY WITH THE UTILITY COMPANY AND SHALL TAKE DUE CARE IN ALL PHASES OF THE CONSTRUCTION TO PROTECT ANY SUCH FACILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGES TO THE UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE OSHA, REGULATIONS WHILE AT THE CONSTRUCTION SITE.
5. UNLESS OTHERWISE INDICATED ALL ITEMS AND WORK SHOWN ON THESE SHEETS ARE PROPOSED NEW ITEMS AND WORK.
6. THE PUMPING CAPACITY OF THE EXISTING STATION MUST BE MAINTAINED AT ALL TIMES (SPECIFIED STATION PUMPING CAPACITY 3,000 gpm). THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE ENGINEER FOR ALL TEMPORARY WORK. REFER TO DIVISION 1 OF THE SPECIFICATIONS.
7. NOTE THAT DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE EXISTING PUMPING STATION ACCORDING TO THE REQUIREMENTS OF THE STATE'S ELECTRICAL MAINTENANCE CONTRACT. SHORT-TERM SHUTDOWN WILL BE PERMITTED WITH SPECIFIC WRITTEN PERMISSION (SEE SPECIFICATIONS).
8. ALL SHOP DRAWINGS, MATERIAL SAMPLES ETC. MUST BE SUBMITTED AND APPROVED BY THE ENGINEER BEFORE INSTALLATION.
9. BEFORE STARTING EXCAVATION THE CONTRACTOR SHALL CALL EMC AT 1-708-588-2500 FOR FIELD LOCATION OF BURIED UNDERGROUND UTILITIES (48 HOURS NOTIFICATION REQUIRED)
10. COORDINATE EXACT LOCATION OF ALL MAJOR EQUIPMENT WITH THE ENGINEER BEFORE INSTALLATION.
11. SPECIAL WASTE ENCOUNTERED SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04.

STATE HIGHWAY STANDARDS

000001	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001	TEMPORARY EROSION CONTROL SYSTEMS
442201	CLASS C AND D PATCHES
601001	SUB-SURFACE DRAINS
602401	MANHOLE TYPE A
602411	MANHOLE TYPE A 7' DIAMETER
602416	MANHOLE TYPE A 8' DIAMETER
602701	MANHOLE STEPS
604001	FRAME AND LIDS TYPE 1
637001	CONCRETE BARRIER, DOUBLE FACE, 32 IN. HEIGHT
701101	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701427	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS 40 MPH
701606	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611	URBAN HALF ROAD CLOSURE MULTILANE, 2W WITH MOUNTABLE MEDIAN
701901	TRAFFIC CONTROL DEVICES
780001	TYPICAL PAVEMENT MARKINGS
781001	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

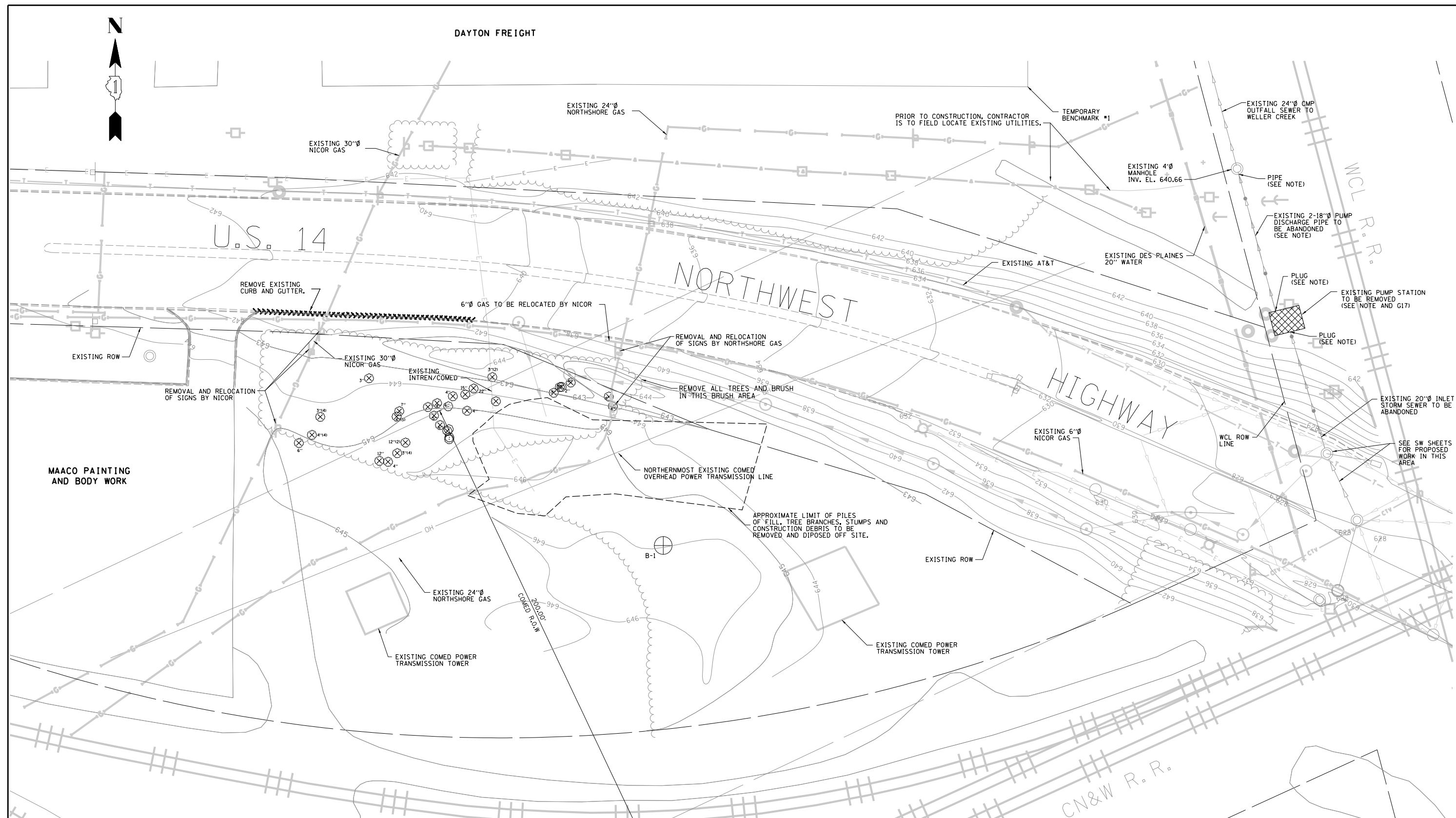
CIVIL AND DRAINAGE GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0213 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)
2. THE LOCATIONS OF THE EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES; IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THE CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. THE EXACT LOCATION OF ALL EXISTING UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES.
4. IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, PRIOR TO THE START OF ANY WORK, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR AT THEIR EXPENSE ANY FACILITIES DAMAGED DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, ILLINOIS DEPARTMENT OF TRANSPORTATION, AND THE CITY OF DES PLAINES.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
7. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE ENGINEER BEFORE ORDERING MATERIALS.
8. ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE HIGHWAY DATUM (NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) ± 0.415').
9. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
10. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
11. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
12. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ADJUTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
13. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
14. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
15. FRAME AND GRATE ADJUSTMENTS OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENT SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
16. FOR STORM SEWER CONSTRUCTION UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.
17. THE REMOVAL OF EXISTING DRAINAGE ITEMS LOCATED FURTHER THAN 2 FEET OUTSIDE THE EDGE OF PROPOSED PAVEMENT OR BACK OF CURB SHALL BE BACKFILLED WITH NATIVE MATERIALS AND THE COST OF THE BACKFILLING WITH NATIVE MATERIALS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE DRAINAGE ITEM TO BE REMOVED. BACKFILL UNDER AND WITHIN 2 FEET OF THE PROPOSED PAVEMENT EDGES AND BACK OF CURBS SHALL BE IN ACCORDANCE WITH SECTION 208 OF THE STANDARD SPECIFICATIONS.

18. THE COST OF CONNECTING EXISTING STORM SEWERS TO THE PROPOSED DRAINAGE SYSTEM AND/OR CONNECTING PROPOSED STORM SEWER TO EXISTING STRUCTURES SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PROPOSED STORM SEWER. ALL NECESSARY ADDITIONAL PIPE USED WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR STORM SEWER OF THE SIZE REQUIRED.
19. THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.
20. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
21. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
22. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER AT (773) 685-8386.
23. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
24. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINES SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
25. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. REMOVAL OF THIS PAVEMENT MARKING TAPE IS INCLUDED IN THE CONTRACT UNIT PRICES FOR SHORT TERM PAVEMENT MARKING.
26. THE CONTRACTOR SHALL CONTACT TO COORDINATE RAILROAD FLAGGING SERVICES WITH PAUL CHOJENSKI 708-332-3557.
27. THE CONTRACTOR MUST OBTAIN A RIGHT OF ENTRY FROM PAUL CHOJENSKI FOR THE WISCONSIN CENTRAL LIMITED PROPERTY.
28. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
29. ALL WORK ASSOCIATED WITH INSTALLATION AND MAINTENANCE OF STABILIZED CONSTRUCTION ENTRANCES, CONCRETE WASHOUTS, AND IN-STREAM WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
30. THE CONTRACTOR IS RESPONSIBLE OF PLANNING AND IMPLEMENTING ALL TRENCH SHORING FOR THE INSTALLATION STORM SEWERS AND MANHOLES.
31. THE PERIMETER PAVEMENT SHALL EXTEND 6" BEYOND THE CENTERLINE OF FENCE.
32. ALL WORK ARE PROPOSED NEW WORK UNLESS SPECIFICALLY CALLED OUT AS EXISTING.
33. ALL DISTURBED AREAS NOT OTHERWISE PAVED SHALL BE SEEDED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 250 OF THE STANDARD SPECIFICATIONS.
34. EXISTING TREES TO REMAIN WHENEVER POSSIBLE.
35. PERIMETER EROSION BARRIER AND OTHER EROSION CONTROL ELEMENTS TO BE IN ACCORDANCE WITH IDOT STANDARDS.
36. ALL DISTURBED AND REGRADED AREAS ARE TO BE PROVIDED WITH 4-INCH TOP SOIL, SEEDING AND EROSION CONTROL BLANKET PLACED AS REQUIRED.

FILE NAME :

	USER NAME :	DESIGNED - LRE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PUMP STATION NO. 8 RELOCATION GENERAL NOTES			RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - LRE	REVISED -		US 14	86 S-I-I	COOK	156	6			
	PLOT SCALE :	CHECKED - PMS	REVISED -		NORTHWEST HIGHWAY	CONTRACT NO. 60C48						
	PLOT DATE :	DATE - 09-29-17	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT



TEMPORARY BENCHMARK #1 ELEVATION 643.93 (HIGHWAY DATUM)

SET CHISELED "X" ON TOP OF 6" CONCRETE BARRIER CURB AT SOUTHEAST CORNER OF EXISTING DAYTON FREIGHT PARKING LOT ADJACENT TO THE EXISTING PUMP STATION NO.8.

TEMPORARY BENCHMARK #2 ELEVATION 649.25 (HIGHWAY DATUM)

MONUMENT SET IN CONCRETE AT SOUTHWEST CORNER OF STATE ST. AND WOLF/GOLF RD. 18' SOUTH OF E/P STATE AND 28' WEST OF E/P OF GOLF/WOLF CIRCLE.

TEMPORARY BENCHMARK #3 ELEVATION 639.45 (HIGHWAY DATUM)

MONUMENT SET IN CONCRETE AT NORTHEAST CORNER OF MANNHEIM/LEE ST. AND DEMPSTER/THACKER. 6' EAST FROM B/C ON MANNHEIM/LEE. 24.7' NORTH OF TRAFFIC SIGNAL POLE. 18' NORTH OF STORM MANHOLE IN PAVEMENT.

NOTE:

ABANDONMENT AND REMOVAL OF EXISTING PUMP STATION AND RELATED PIPING TO BE DONE AFTER PROPOSED PS-8 IS OPERATIONAL.

SCALE: 0 5 10 20 40 FT.

G6



USER NAME =	DESIGNED - LRE	REVISED -
	DRAWN - LRE	REVISED -
PLOT SCALE =	CHECKED - PMS	REVISED -
PLOT DATE =	DATE - 09-29-17	REVISED -

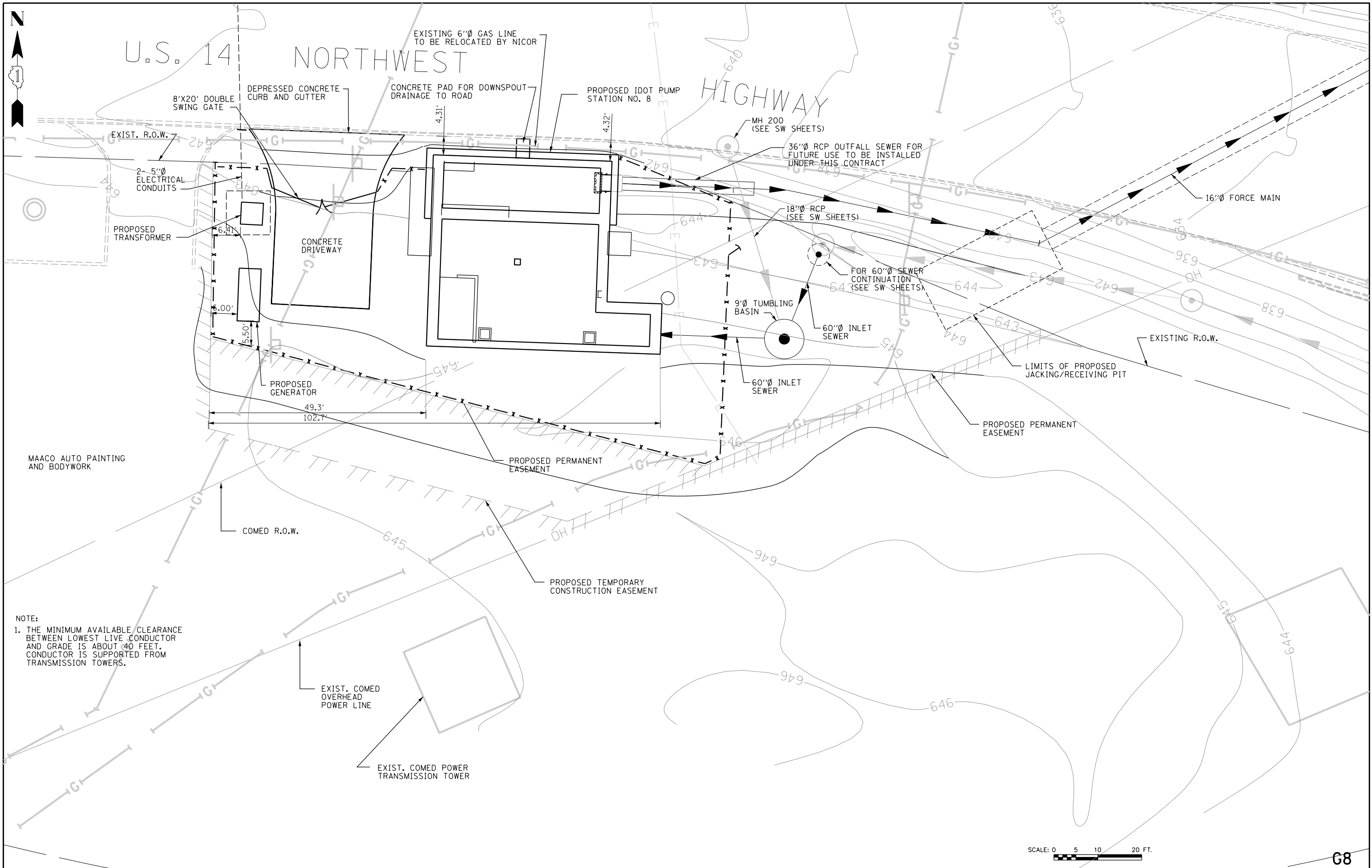
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PUMP STATION NO. 8 RELOCATION
EXISTING SITE PLAN AND DEMOLITION**

SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	7
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

FILE NAME =



NOTE:
 1. THE MINIMUM AVAILABLE CLEARANCE BETWEEN LOWEST LIVE CONDUCTOR AND GRADE IS ABOUT 40 FEET. CONDUCTOR IS SUPPORTED FROM TRANSMISSION TOWERS.

SCALE: 0 5 10 20 FT.



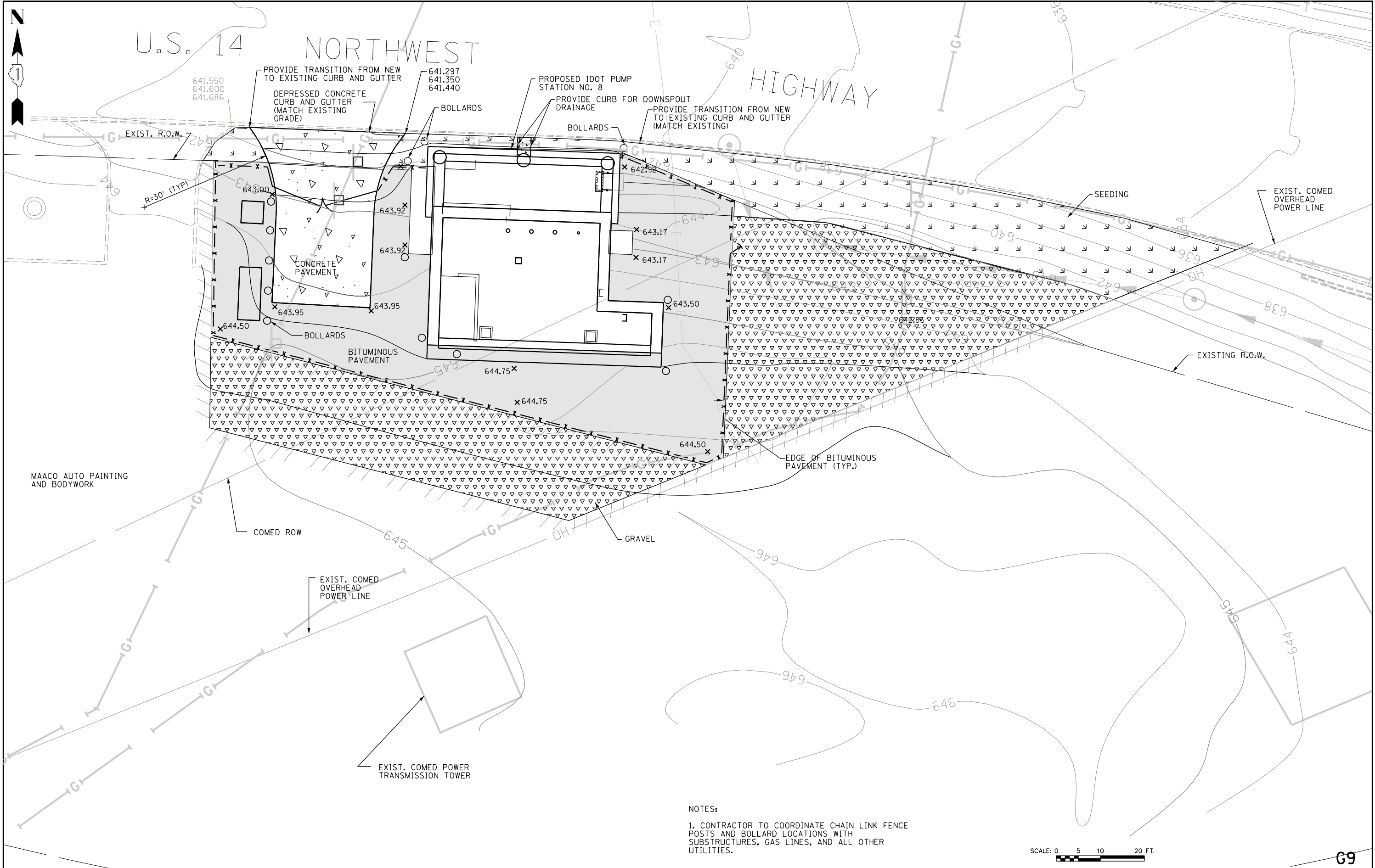
USER NAME =	DESIGNED - LRE	REVISED -
DRAWN - LRE	CHECKED - PMS	REVISED -
PLOT SCALE =	DATE - 09-29-17	REVISED -
PLOT DATE =		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION
 ENLARGED PROPOSED SITE PLAN

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	9
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



NOTES:
 1. CONTRACTOR TO COORDINATE CHAIN LINK FENCE POSTS AND BOLLARD LOCATIONS WITH SUBSTRUCTURES, GAS LINES, AND ALL OTHER UTILITIES.

SCALE: 0 5 10 20 FT.

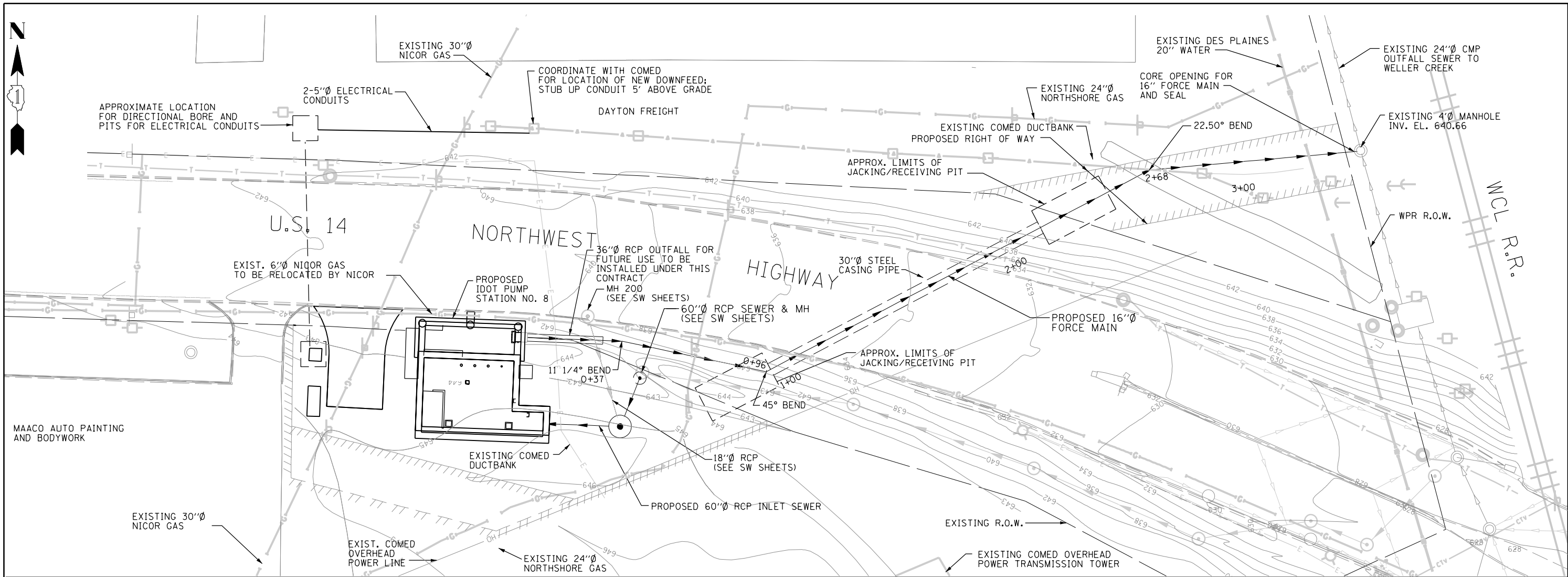
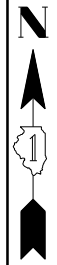


USER NAME =	DESIGNED - LRE	REVISED -
	DRAWN - LRE	REVISED -
PLOT SCALE =	CHECKED - PMS	REVISED -
PLOT DATE =	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION			
GRADING PLAN			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

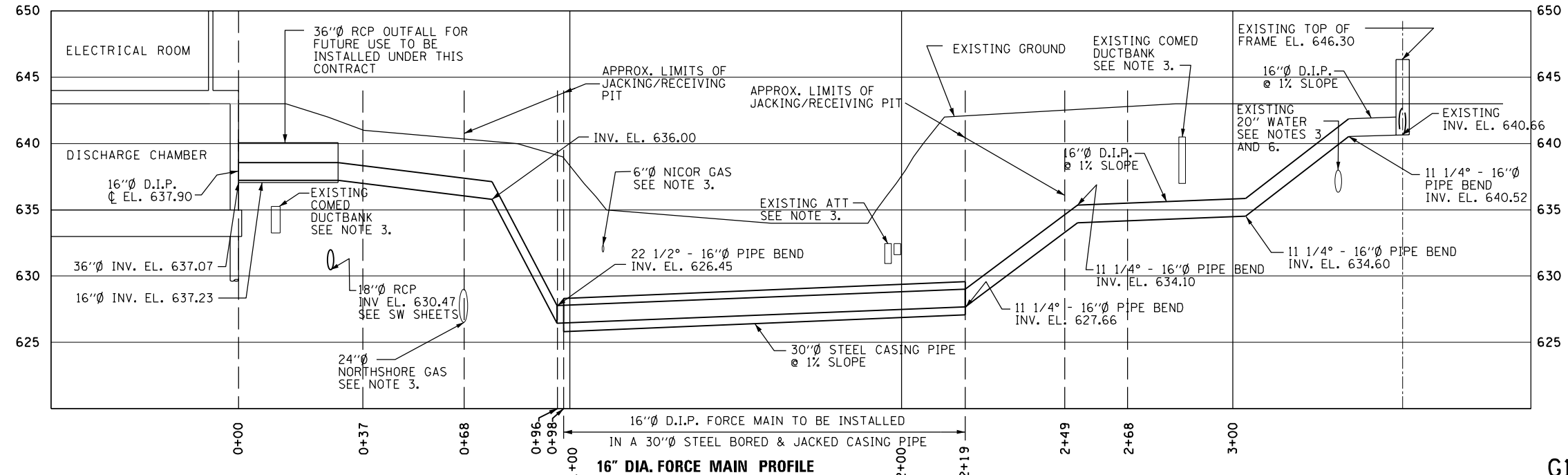
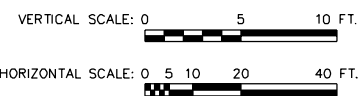
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	10
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



PLAN

NOTE:

1. ALL DI PIPE JOINTS SHALL BE RESTRAINED TYPE JOINTS
2. PROVIDE ALL SHEETING AND/OR SHORING AS REQUIRED TO AVOID IMPACTS ON ROAD AND SURROUNDING AREA.
3. DEPTH OF THIS UTILITY IS UNKNOWN. PRIOR TO CONSTRUCTION CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION TO LOCATE THIS UTILITY. ADJUST NEW FORCEMAIN ALIGNMENT AS NEEDED. CONTRACTOR IS RESPONSIBLE FOR SUPPORTING EXISTING UNDERGROUND UTILITIES DURING WORK. COORDINATE WITH UTILITY COMPANY FOR REQUIREMENTS.
4. AREA DISTURBED BY CONSTRUCTION NORTH OF U.S. 14 NORTHWEST HIGHWAY SHALL BE RESTORED BY SEEDING.
5. FOR FORCEMAIN HORIZONTAL LOCATION COORDINATES, SEE SHEET G7.
6. PROVIDE VERTICAL SEPARATION CROSSING IN ACCORDANCE WITH THE LATEST STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS.



16" DIA. FORCE MAIN PROFILE



USER NAME =	DESIGNED - LRE	REVISED -
PLOT SCALE =	DRAWN - LRE	REVISED -
PLOT DATE =	CHECKED - PMS	REVISED -
	DATE - 09-29-17	REVISED -

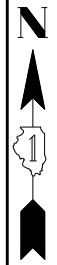
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PUMP STATION NO. 8 RELOCATION
16" FORCE MAIN PLAN AND PROFILE**

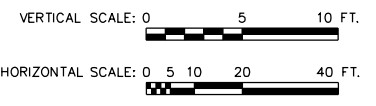
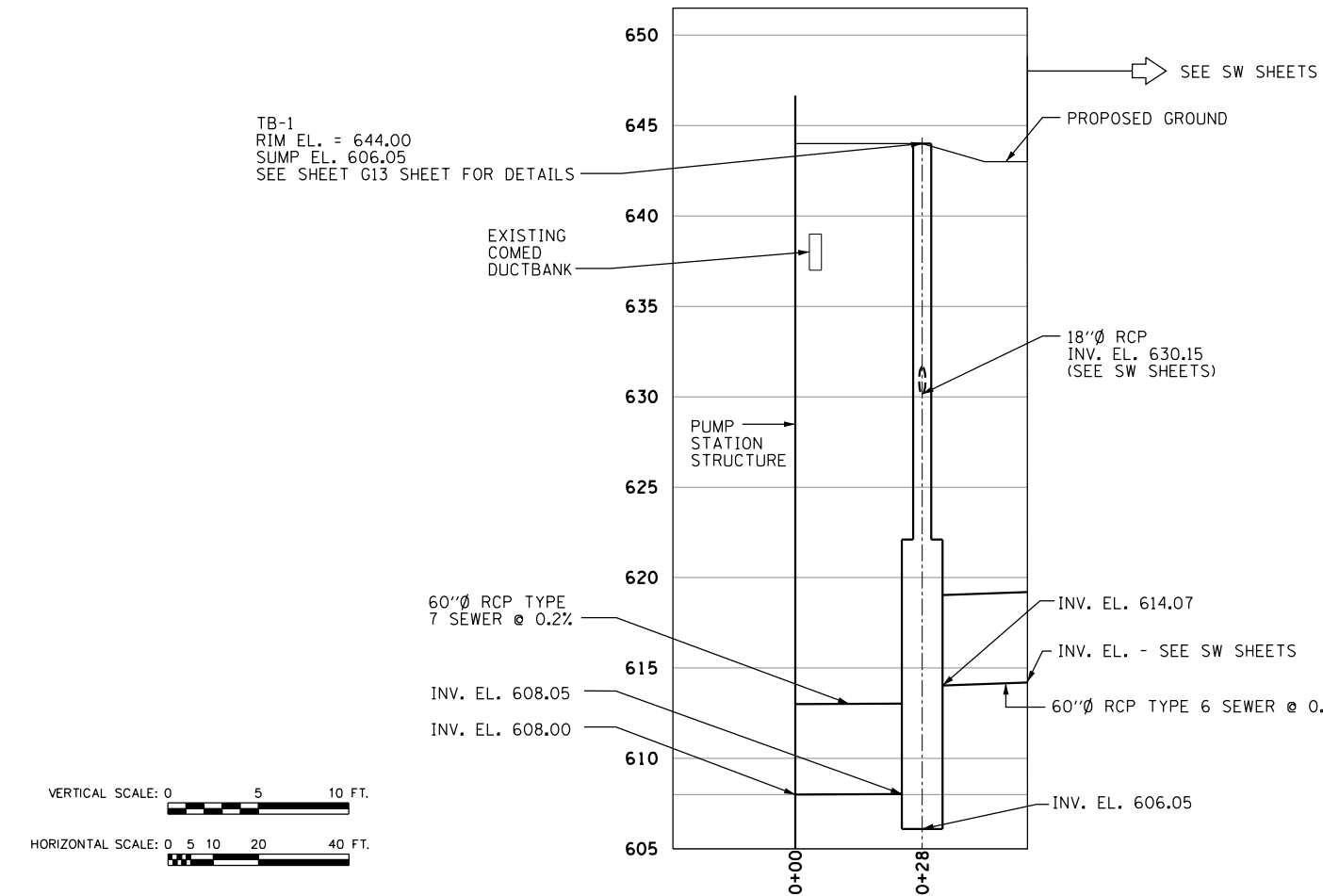
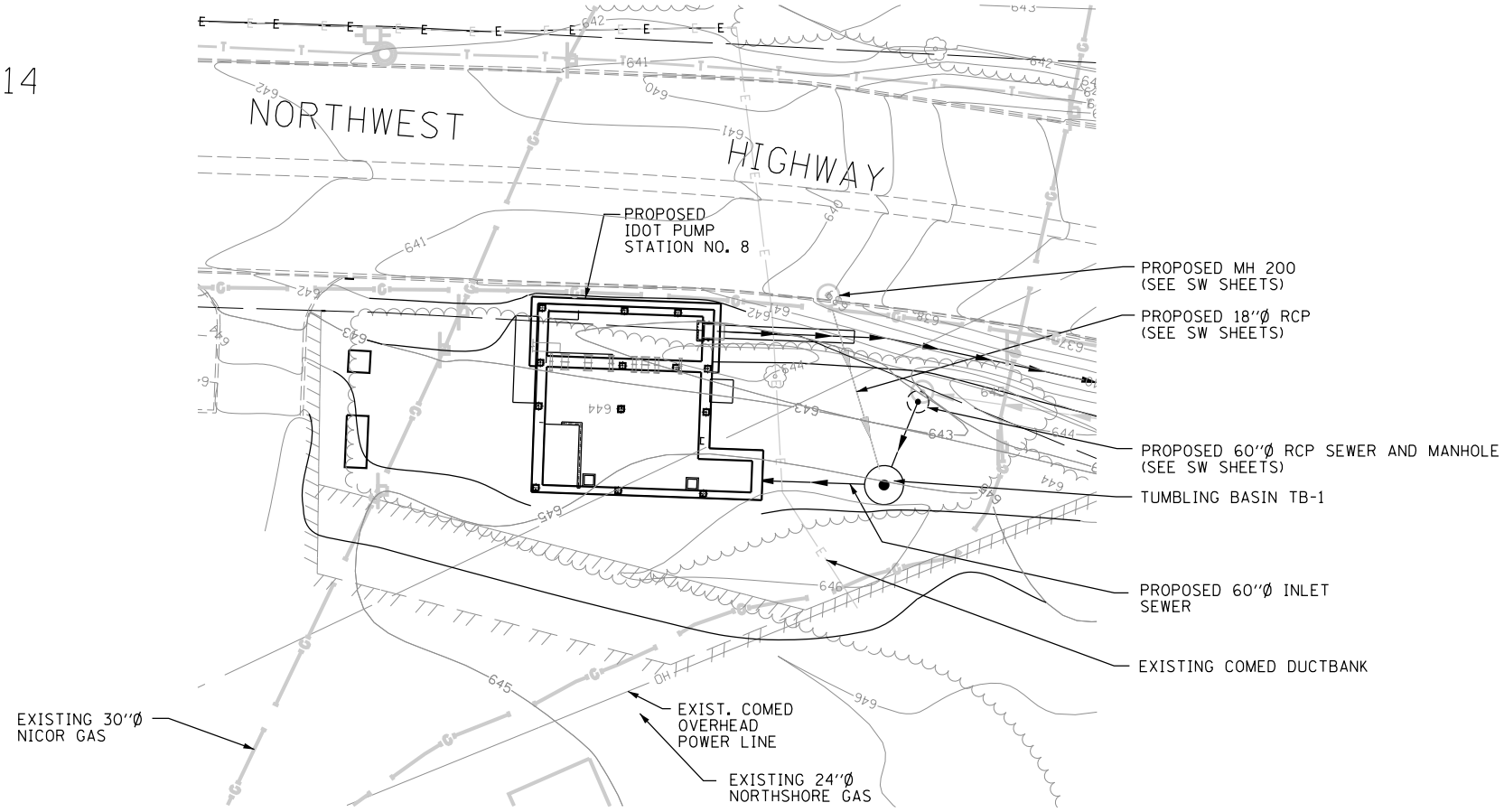
SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-I-1	COOK	156	11
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

G10



U.S. 14



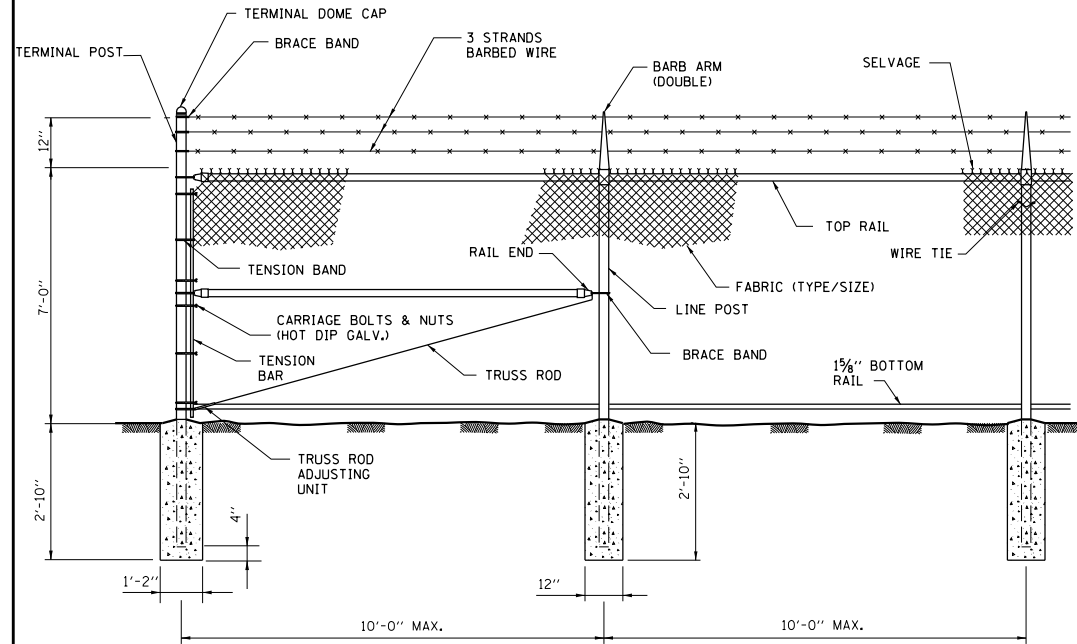
USER NAME =	DESIGNED - LRE	REVISED -
	DRAWN - LRE	REVISED -
PLOT SCALE =	CHECKED - PMS	REVISED -
PLOT DATE =	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION PROPOSED 60" INLET SEWER PLAN AND PROFILE			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-I-I	COOK	156	12
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

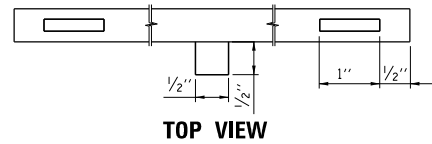
G11



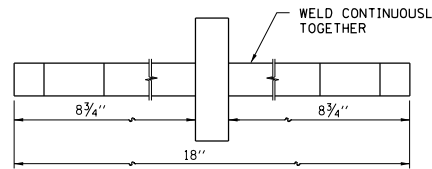
FENCE DETAIL
NOT TO SCALE

SPECIFICATIONS			
FABRIC	MESH	GAUGE	SELVAGE
ALUM.	2"	9	K+B
BARBED WIRE	TYPE 4 PT.	3 STR.	6 STR.
FRMWRK.	O.D.	WALL	LBS/LF
TOP & BOT. RAIL	1 5/8"	.140	2.27
LINE POSTS	2 3/8"	.154	3.65
BRACE RAIL	1 5/8"	.140	2.27
CORNER POSTS	2 7/8"	.203	5.79
END POSTS	2 7/8"	.203	5.79

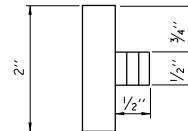
- NOTES:
- ALL MATERIALS SHALL BE HOT DIP GALVANIZED
 - ALL FITTINGS SHALL BE PRESSED STEEL.
 - SEE E458 FOR GROUNDING, GROUNDING SHALL BE CONTINUOUS. GROUND RODS SHALL BE SPACED NO MORE THAN 100 FEET APART.



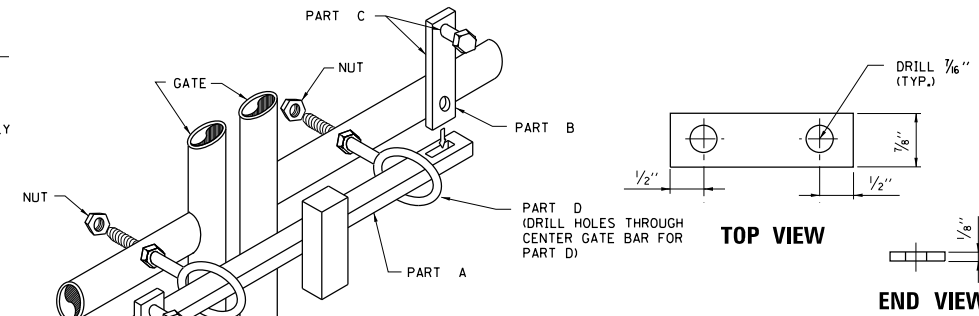
TOP VIEW



FRONT VIEW



END VIEW PART A



SWING GATE LOCKING DEVICE
NOT TO SCALE

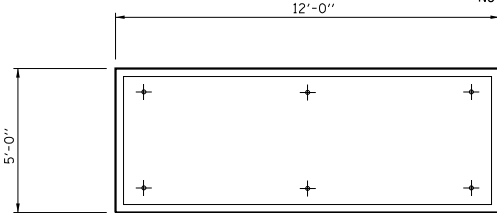
TOP VIEW

FRONT VIEW

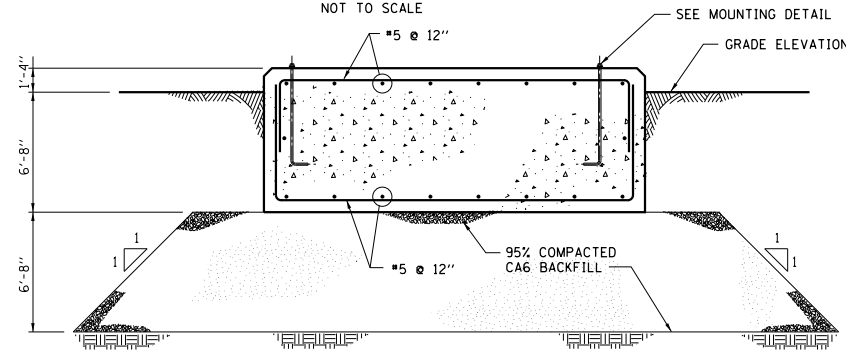
PART B

PART C

PART C IS FABRICATED THE SAME WITH A BOLT INTO EACH HOLE



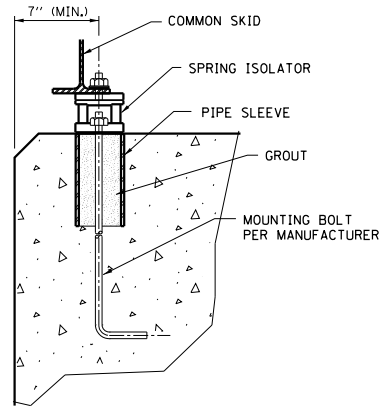
PLAN
NOT TO SCALE



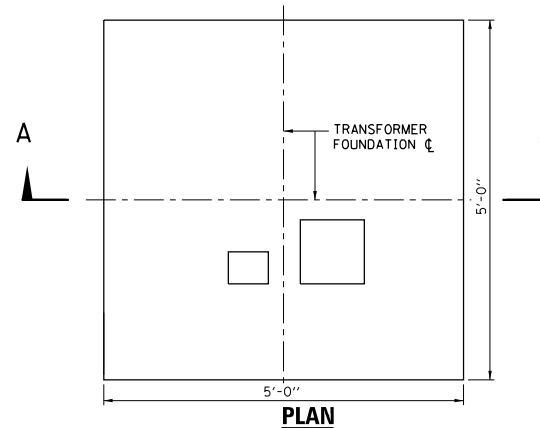
SECTION

- CONCRETE PAD AS REQUIRED BY EQUIPMENT MANUFACTURER. MINIMUM OF 2 TIMES THE MASS OF EQUIPMENT SUPPORTED OR 10 TIMES THE MASS OF MOVING PARTS, WHICHEVER IS GREATER.
- VERIFY CONCRETE PAD DIMENSIONS WITH EQUIPMENT MANUFACTURER.
- STRIP APPROXIMATELY FIVE FOOT OF TOP SOIL PRIOR TO PLACING BACKFILL.

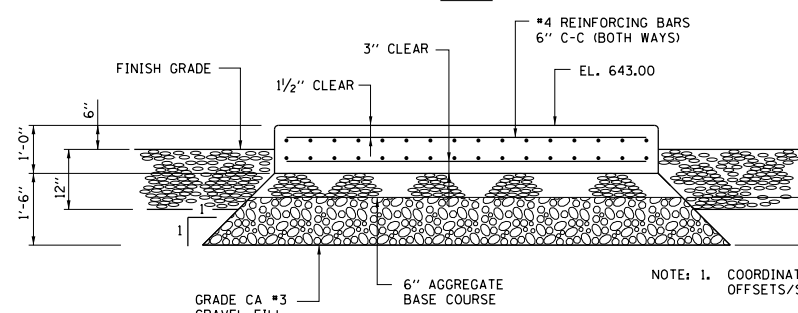
ENGINE GENERATOR FOUNDATION
NOT TO SCALE



TYPICAL SPRING ISOLATOR MOUNTING DETAIL
NOT TO SCALE



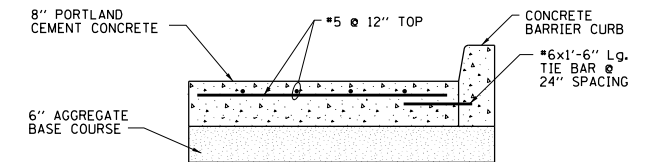
PLAN



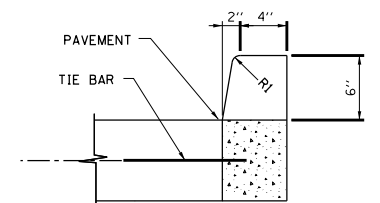
SECTION A-A

COMED TRANSFORMER FOUNDATION
NOT TO SCALE

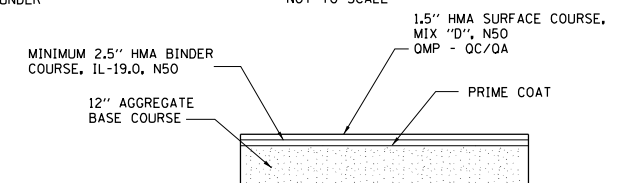
- NOTE:
- COORDINATE WITH COMED FOR SIZING AND THE OFFSETS/SETBACKS OPENINGS/CONDUITS.
 - PORTLAND CEMENT CONCRETE SHALL BE PAID FOR UNDER CONCRETE STRUCTURES.
 - REINFORCING BARS SHALL BE PAID FOR UNDER REINFORCEMENT BARS, EPOXY COATED.



PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT DETAIL
NOT TO SCALE

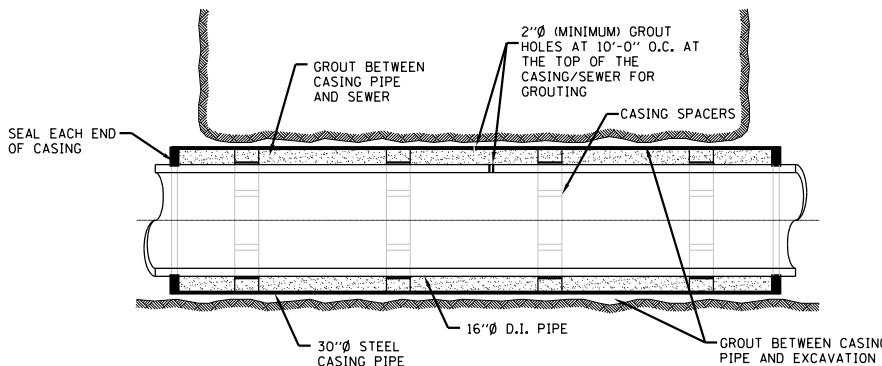


CONCRETE CURB, TYPE B
NOT TO SCALE

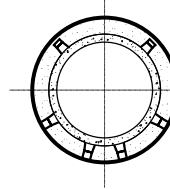


NEW SITE PAVEMENT
NOT TO SCALE

- THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SOYD/IN.
- FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
- QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.



16" FORCE MAIN INSTALLED IN STEEL CASING PIPE
NOT TO SCALE



USER NAME =	DESIGNED - LRE	REVISED -
PLOT SCALE =	DRAWN - LRE	REVISED -
PLOT DATE =	CHECKED - PMS	REVISED -
	DATE - 09-29-17	REVISED -

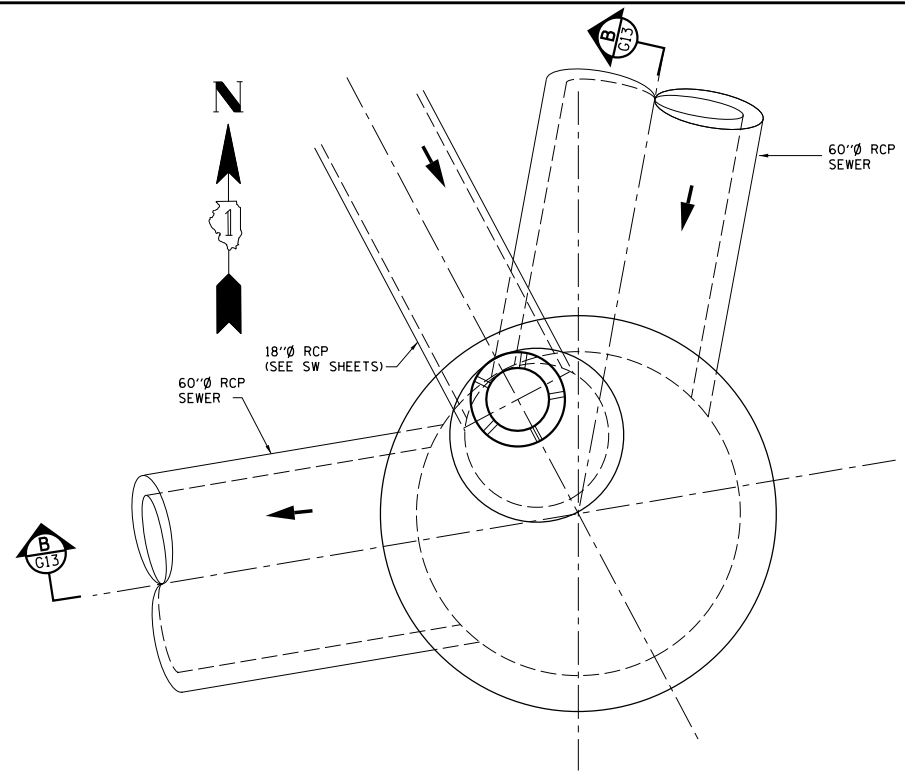
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION
GENERAL DETAILS

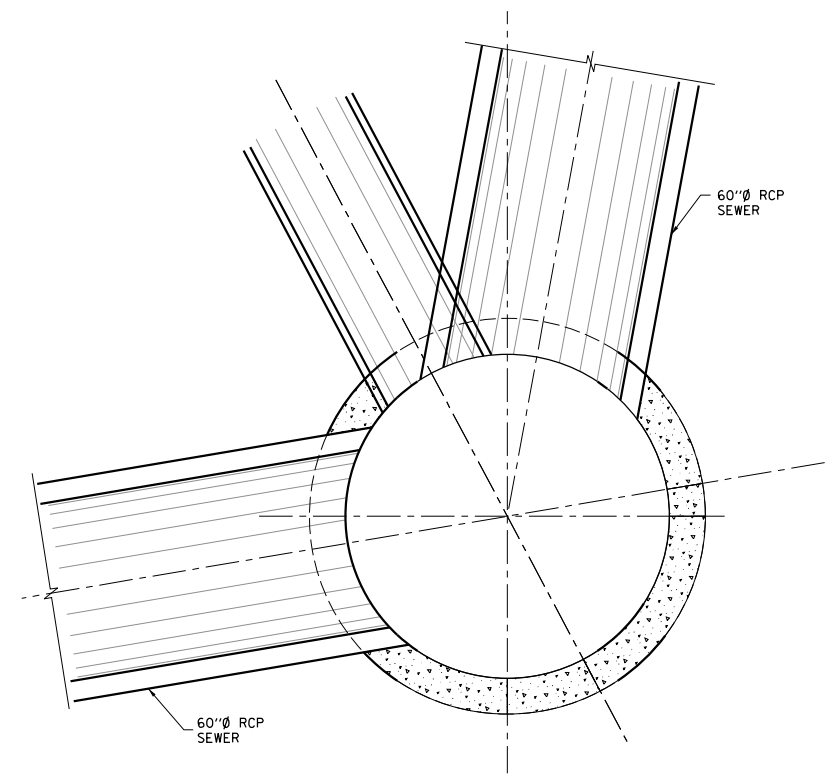
SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	13
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

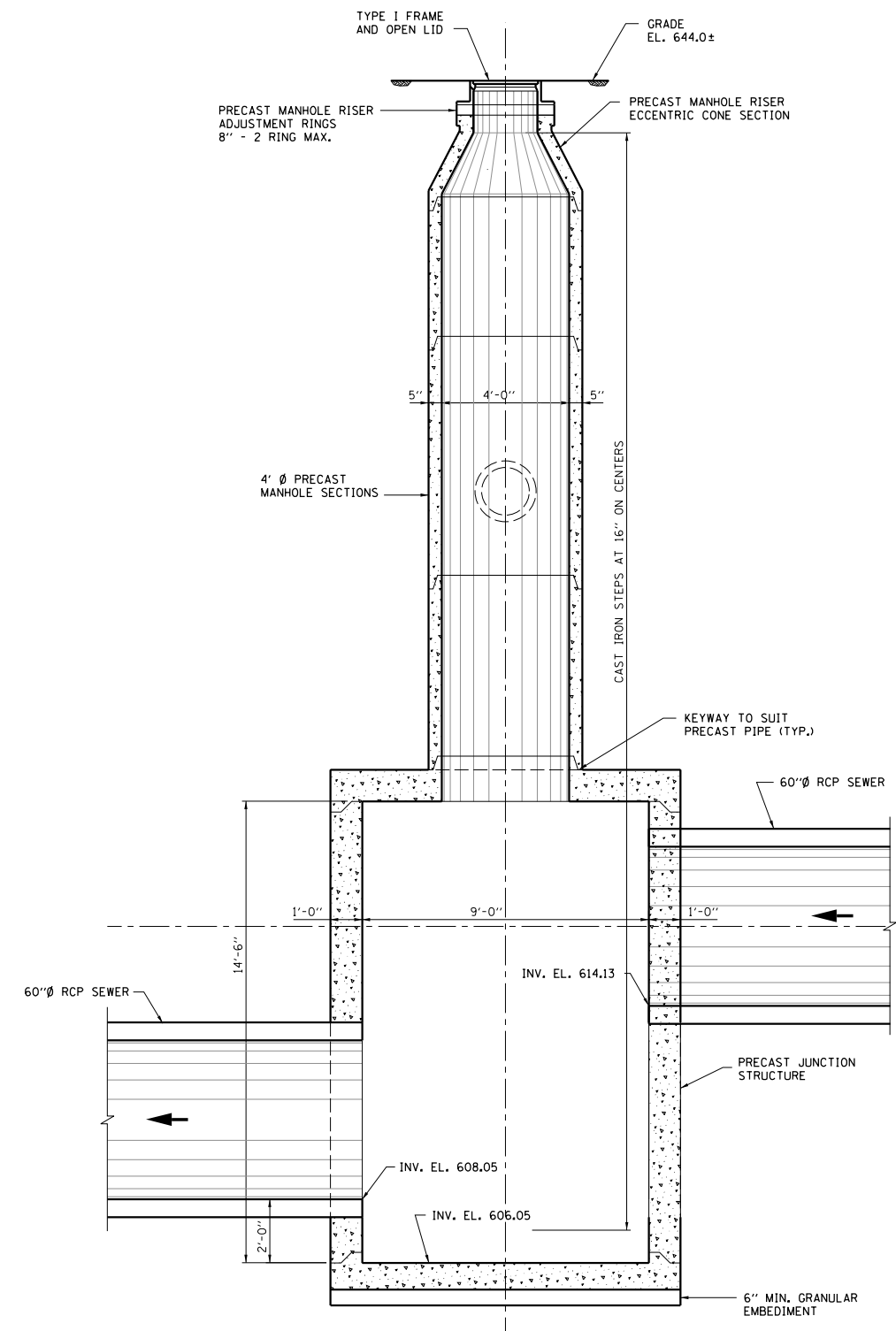
G12



PLAN
N.T.S.



SECTIONAL PLAN
N.T.S.



SECTION B-B
N.T.S.

NOTES:

1. FOR LOCATION SEE DRAWING G8.
2. PRECAST PIPE AND FITTINGS MUST CONFORM TO ASTM DESIGNATION C 76, AND IDOT SPECIFICATIONS FOR "REINFORCED CONCRETE CULVERT STORM DRAIN AND SEWER PIPE".
3. CAST IRON STEPS SHALL CONFORM TO IDOT STANDARD 602701.
4. PRECAST JUNCTION STRUCTURE SHALL CONFORM TO ASTM C890 FOR MINIMUM STRUCTURAL DESIGN LOADING FOR MONOLITHIC OR SECTIONAL PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES.



USER NAME =	DESIGNED - LRE	REVISED -
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PLOT DATE =	CHECKED - PMS	REVISED -
	DATE - 09-29-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PUMP STATION NO. 8 RELOCATION
TUMBLING BASIN DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

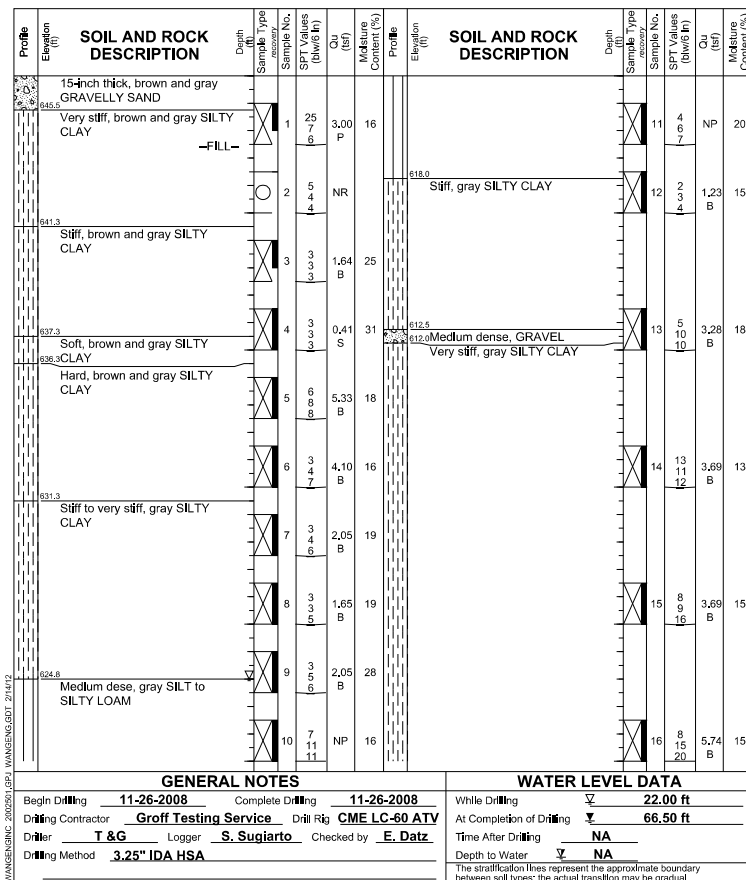
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	14
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-1
WEI Job No.: 200-25-01
Client: **AB&H, A Donohue Group**
Project: **IDOT Pump Station #8**
Location: **NW 1/4, Sec. 17, T41N, R12E; Des Plaines, IL**

Datum: NGVD
Elevation: 646.77 ft
North: 1960091.79 ft
East: 1102201.19 ft
Station:
Offset:

Page 1 of 2

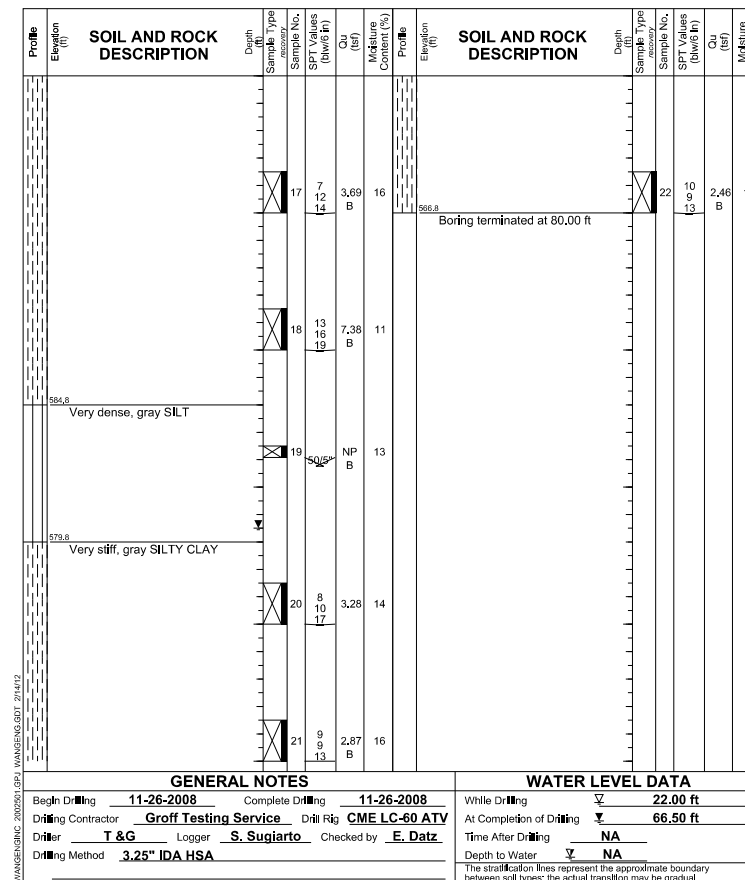


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Datum: NGVD
Elevation: 646.77 ft
North: 1960091.79 ft
East: 1102201.19 ft
Station:
Offset:

Page 2 of 2



USER NAME =	DESIGNED - LRE	REVISED -
PLOT SCALE =	DRAWN - LRE	REVISED -
PLOT DATE =	CHECKED - PMS	REVISED -
	DATE - 09-29-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

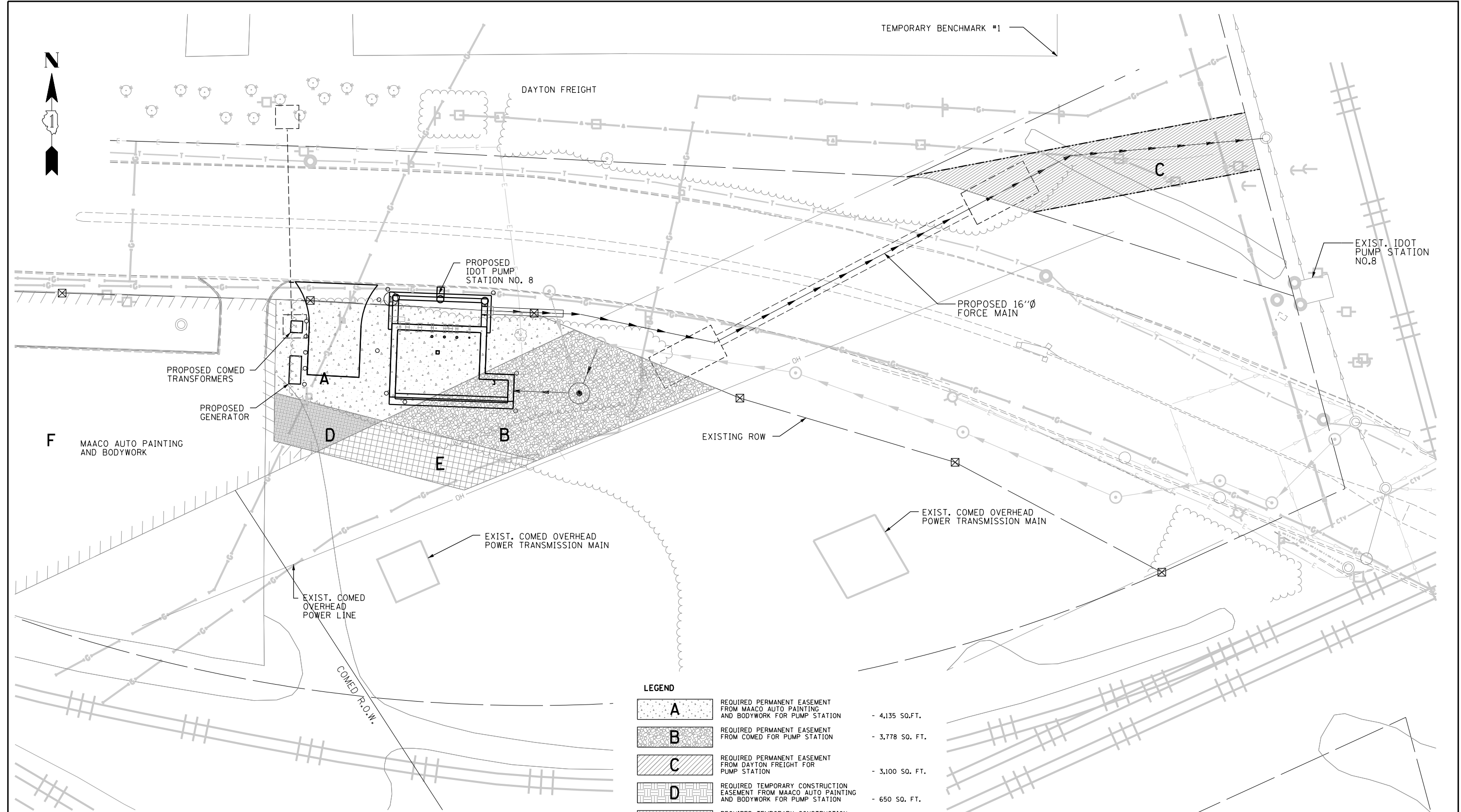
**PUMP STATION NO. 8 RELOCATION
SOIL BORING LOG**

SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-I-I	COOK	156	15
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

G14

TEMPORARY BENCHMARK #1



TEMPORARY BENCHMARK #1 ELEVATION 643.93 (HIGHWAY DATUM)
 SET CHISELED "X" ON TOP OF 6" CONCRETE BARRIER CURB AT SOUTHEAST CORNER OF EXISTING DAYTON FREIGHT PARKING LOT ADJACENT TO THE EXISTING PUMP STATION NO.8.

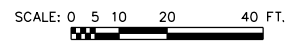
TEMPORARY BENCHMARK #2 ELEVATION 649.25 (HIGHWAY DATUM)
 MONUMENT SET IN CONCRETE AT SOUTHWEST CORNER OF STATE ST. AND WOLF/GOLF RD. 18' SOUTH OF E/P STATE AND 28' WEST OF E/P OF GOLF/WOLF CIRCLE.

TEMPORARY BENCHMARK #3 ELEVATION 639.45 (HIGHWAY DATUM)
 MONUMENT SET IN CONCRETE AT NORTHEAST CORNER OF MANNHEIM/LEE ST. AND DEMPSTER/THACKER. 6' EAST FROM B/C ON MANNHEIM/LEE, 24.7' NORTH OF TRAFFIC SIGNAL POLE, 18' NORTH OF STORM MANHOLE IN PAVEMENT.

LEGEND

A	REQUIRED PERMANENT EASEMENT FROM MAACO AUTO PAINTING AND BODYWORK FOR PUMP STATION	- 4,135 SQ.FT.
B	REQUIRED PERMANENT EASEMENT FROM COMED FOR PUMP STATION	- 3,778 SQ. FT.
C	REQUIRED PERMANENT EASEMENT FROM DAYTON FREIGHT FOR PUMP STATION	- 3,100 SQ. FT.
D	REQUIRED TEMPORARY CONSTRUCTION EASEMENT FROM MAACO AUTO PAINTING AND BODYWORK FOR PUMP STATION	- 650 SQ. FT.
E	REQUIRED TEMPORARY CONSTRUCTION EASEMENT FROM COMED FOR PUMP STATION	- 1,344 SQ. FT.
F	REQUIRED PERMANENT EASEMENT FROM MAACO AUTO PAINTING AND BODYWORK FOR FUTURE US14 RELOCATION	- 35,508 SQ. FT.
	EXISTING RIGHT OF WAY LINE	
	PROPOSED FENCE LINE	
	EXISTING RIGHT OF WAY MARKER	
	PROPOSED STORM SEWER/FORCE MAIN	

NOTES:
 1. SEE G16 FOR EASEMENT DIMENSIONS AND LOCATIONS.



USER NAME =	DESIGNED - LRE	REVISED -
PLOT SCALE =	DRAWN - LRE	REVISED -
PLOT DATE =	CHECKED - PMS	REVISED -
	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**PUMP STATION NO. 8 RELOCATION
 PROPOSED EASEMENT ACQUISITION**

SCALE: SHEET OF SHEETS STA. TO STA.

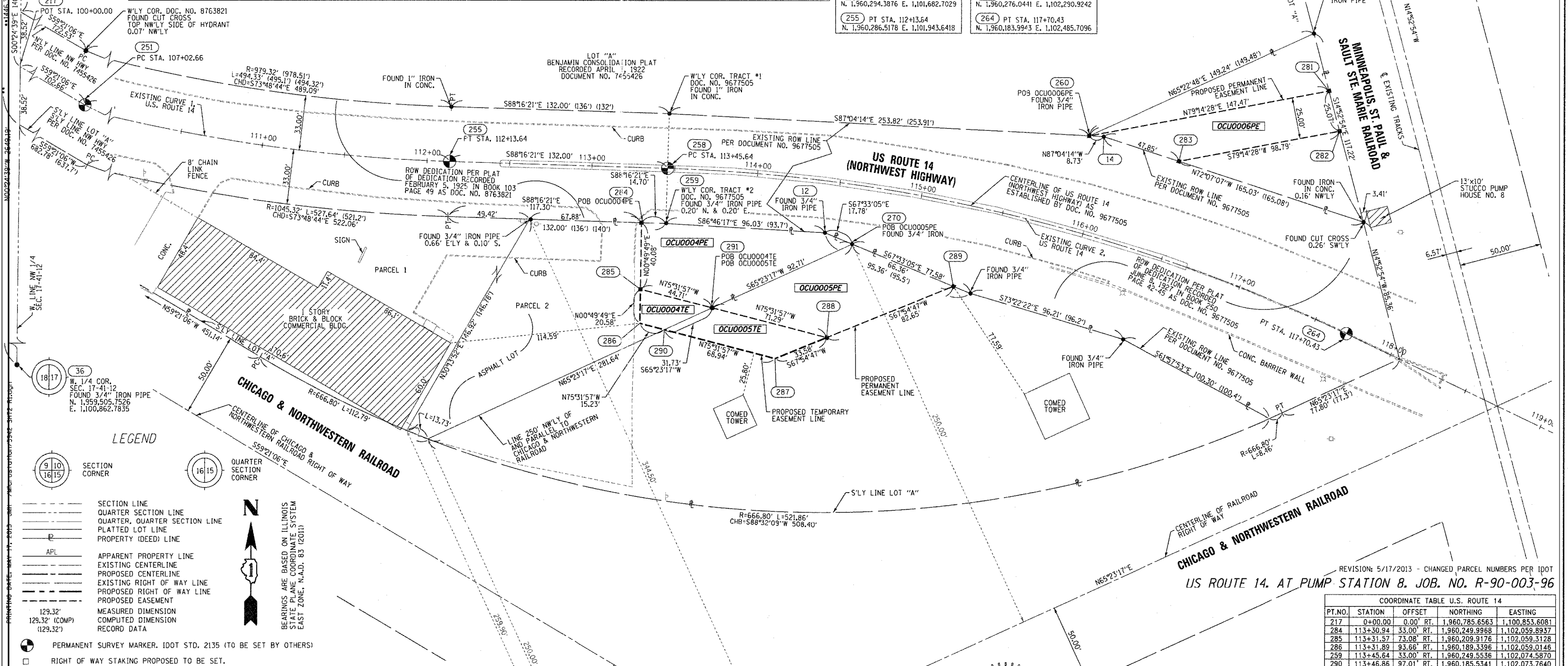
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	16
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

G15

PART OF THE NW 1/4 SECTION 17, R41N, R12E OF THE 3rd PM, MAINE TOWNSHIP, COOK COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	AREA IN EXIST. ROW ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
OCU0004PE	CHICAGO TITLE LAND TRUST COMPANY AS SUCCESSOR TO NORTH STAR TRUST COMPANY AS SUCCESSORS TO WELROSE PARK NATIONAL BANK AS TRUSTEE UNDER TRUST AGREEMENT DATED MARCH 18, 1985 KNOWN AS TRUST NO. 5716	0.972		0.972		0.096	-	09-17-102-005 09-17-102-007	
OCU0005PE	COMMONWEALTH EDISON COMPANY	1.064		1.064		0.092	-	09-17-100-021	
OCU0006PE	COMMONWEALTH EDISON COMPANY	0.194		0.194		0.069	-	09-17-100-022	

CURVE DATA	EXISTING CENTERLINE ROW
CURVE NO. 1 U.S. ROUTE 14 Δ = 28°55'15" D = 5°39'35" R = 1012.32' L = 510.38' T = 261.06' E = 33.12'	CURVE NO. 1 U.S. ROUTE 14 Δ = 23°34'00" D = 5°32'52" R = 1032.76' L = 424.79' T = 215.44' E = 22.23'
251 PC STA. 107+02.66 N. 1,960,427.4660 E. 1,101,458.1118	258 PC STA. 113+45.64 N. 1,960,282.5386 E. 1,102,075.5818
293 PI STA. 109+63.72 N. 1,960,294.3876 E. 1,101,682.7029	263 PI STA. 115+61.08 N. 1,960,276.0441 E. 1,102,290.9242
255 PT STA. 112+13.64 N. 1,960,286.5178 E. 1,101,943.6418	264 PT STA. 117+70.43 N. 1,960,183.9943 E. 1,102,485.7096



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- PERMANENT SURVEY MARKER. IDOT STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.
- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION
- T2 SET 5/8 INCH REBAR FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP AND BEARING SURVEYORS PROFESSIONAL NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.
- BT2 BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE.
- BT3 IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY.
- SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS PROFESSIONAL NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.
- BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.

STATE OF ILLINOIS)
COUNTY OF WILL)
THIS IS TO CERTIFY THAT WE, CLAASSEN, WHITE & ASSOCIATES, P.C., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION NUMBER 184-004039, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 17, TOWNSHIP 41 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS SURVEY CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.
DATED AT JOLIET, ILLINOIS THIS ____ DAY OF _____, 2013 A.D.

NOTES:
1) COORDINATES SHOWN HEREON ARE GROUND VALUES BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83, (2C11). THE COMBINATION FACTOR USED IS 0.99996609. TO CONVERT TO GRID COORDINATES, MULTIPLY THE GROUND COORDINATES BY 0.99996609.
DAVID A. CLAASSEN
VICE PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002962
LICENSE EXPIRES NOVEMBER 30, 2014
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

REVISION: 5/17/2013 - CHANGED PARCEL NUMBERS PER IDOT
US ROUTE 14. AT PUMP STATION 8. JOB. NO. R-90-003-96

PT. NO.	STATION	OFFSET	NORTHING	EASTING
217	0+00.00	0.00'	RT. 1,960,785.6563	1,100,853.6081
284	113+30.94	33.00'	RT. 1,960,249.9968	1,102,059.8937
285	113+31.57	73.08'	RT. 1,960,209.9176	1,102,059.3128
286	113+31.89	93.66'	RT. 1,960,189.3396	1,102,059.0146
259	113+45.64	33.00'	RT. 1,960,249.5536	1,102,074.5870
290	113+46.86	97.01'	RT. 1,960,185.5341	1,102,073.7640
291	113+77.75	82.48'	RT. 1,960,198.7470	1,102,102.6079
287	114+22.18	109.68'	RT. 1,960,168.3108	1,102,140.5184
12	114+44.74	30.91'	RT. 1,960,244.1455	1,102,170.4596
288	114+54.77	93.42'	RT. 1,960,180.9375	1,102,171.6345
270	114+62.51	35.43'	RT. 1,960,237.3563	1,102,186.8920
289	115+30.13	49.64'	RT. 1,960,212.0166	1,102,248.2230
260	115+88.21	57.62'	RT. 1,960,302.5527	1,102,330.0596
14	115+96.28	59.50'	RT. 1,960,302.1065	1,102,338.7782
283	116+41.53	58.67'	RT. 1,960,287.4148	1,102,384.3151
281	117+06.28	129.72'	RT. 1,960,330.0809	1,102,474.9330
282	117+19.79	109.70'	RT. 1,960,305.8568	1,102,481.3703



USER NAME =	DESIGNED - LRE	REVISED -
PLOT SCALE =	DRAWN - LRE	REVISED -
PLOT DATE =	CHECKED - PMS	REVISED -
	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION
PLAT OF SURVEY

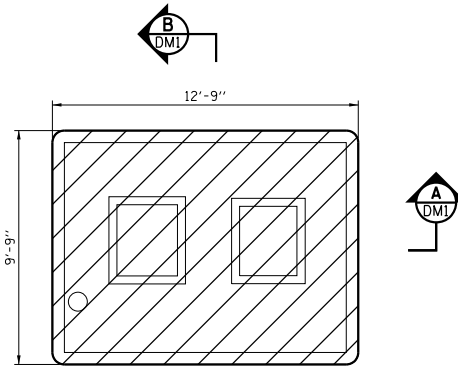
CLAASSEN, WHITE & ASSOCIATES, P.C.
LAND SURVEYORS
121 AIRPORT DRIVE, UNIT 1, JOLIET, ILLINOIS 60431
(815) 744-3720 cwhite@cwalandsurvey.com
CWA JOB #5942

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

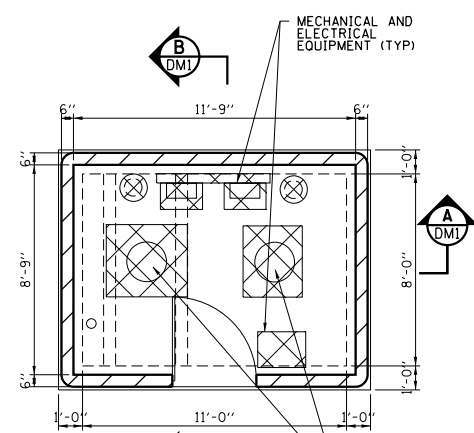
PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
US ROUTE 14 (NORTHWEST HIGHWAY)

SECTION: AT PUMP STATION 8 COOK COUNTY
PROJECT JOB NO. R-90-003-96
STATION 113+00 TO STATION 118+00

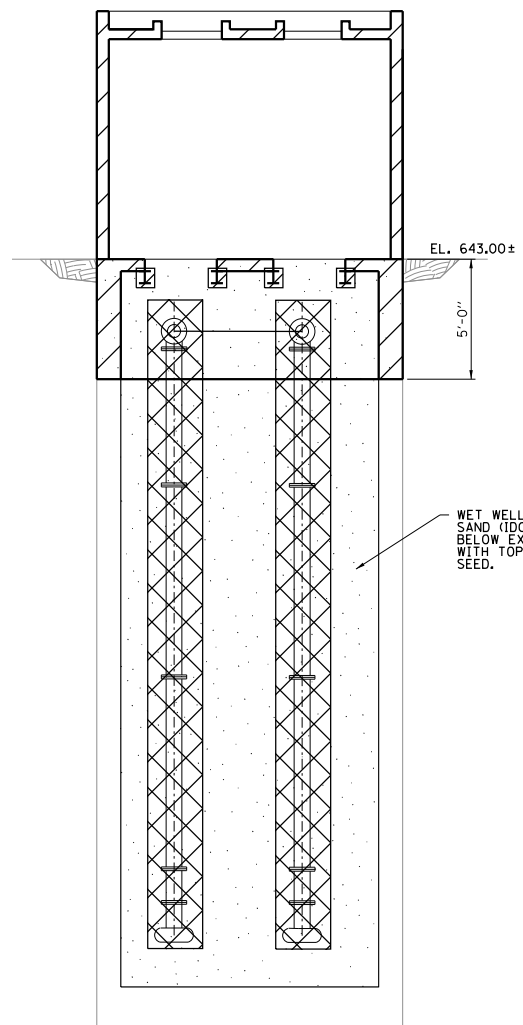
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-I-I	COOK	156	17
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



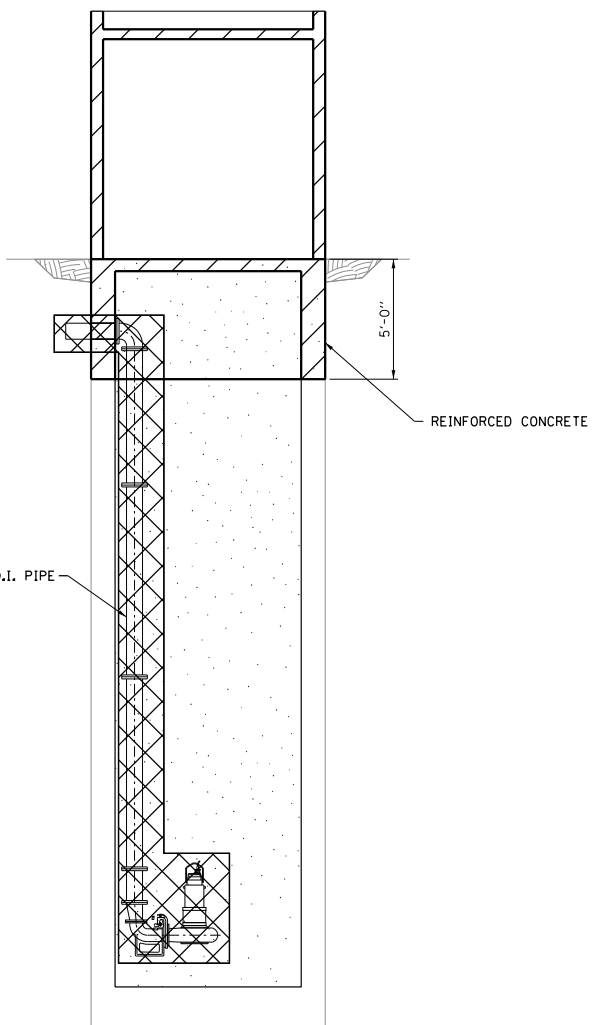
ROOF PLAN



FLOOR PLAN



SECTION A-A



SECTION B-B

LEGEND:
 EQUIPMENT REMOVAL.
 STRUCTURAL REMOVAL.

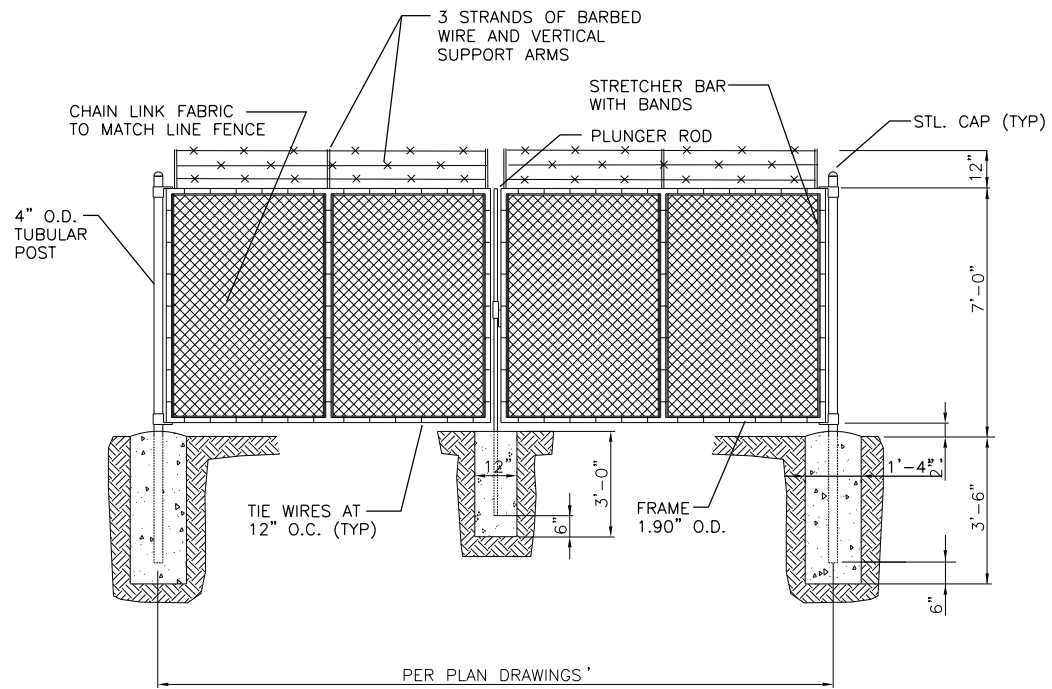
NOTES:

1. THE EXISTING PUMP STATION MUST REMAIN IN SERVICE UNTIL NEW PUMP STATION IS FULLY OPERATIONAL INCLUDING NEW INLET SEWER.
2. REMOVE ALL ELECTRICAL AND MECHANICAL EQUIPMENT AS NECESSARY.
3. THE CONTRACTOR SHALL CONTACT IDOT ELECTRICAL MAINTENANCE AUTHORIZED REPRESENTATIVE PRIOR TO REMOVAL OF ANY EXISTING EQUIPMENT FROM THE SITE. THE SALVAGE EQUIPMENT ITEMS SUCH AS MODIN UNIT HEATER AND ABS SUBMERSIBLE MAIN PUMPS SHALL BE RETURNED TO IDOT DESIGNATED STORAGE FACILITY AT NO ADDITIONAL COST.



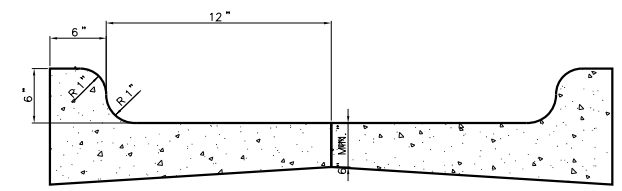
G17

DONOHUE	USER NAME =	DESIGNED - LRE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PUMP STATION NO. 8 RELOCATION DEMOLITION PLANS & SECTIONS			RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - LRE	REVISED -		US 14	86 S-I-I	COOK	156	18			
	PLOT DATE =	CHECKED - PMS	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			NORTHWEST HIGHWAY	CONTRACT NO. 60C48			
		DATE - 09-29-17	REVISED -					ILLINOIS FED. AID PROJECT				



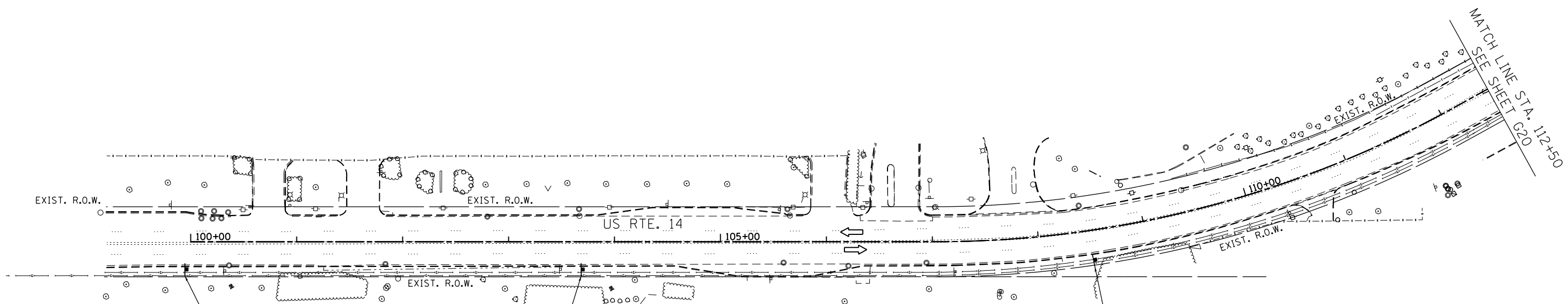
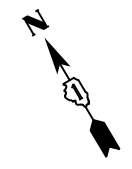
DOUBLE SWING GATE WITH BARBED WIRE
NOT TO SCALE

- NOTES:
1. ALL MATERIALS SHALL BE HOT DIP GALVANIZED
 2. ALL FITTINGS SHALL BE PRESSED STEEL.
 3. SEE E457 AND E458 FOR GROUNDING.



CURB FOR DOWNSPOUT DRAINAGE
NOT TO SCALE

USER NAME :	DESIGNED - LRE	REVISED -
	DRAWN - LRE	REVISED -
PLOT SCALE :	CHECKED - PMS	REVISED -
PLOT DATE :	DATE - 09-29-17	REVISED -



W20-1103(O)-48
STA. 99+95

WORK ZONE W21-1115-3618

SPEED LIMIT 30 R2-1-3648

PHOTO ENFORCED R10-19AP-3618

\$ 375 FINE MINIMUM R2-1106P-3618

STA. 103+70



W21-1(O)-48
STA. 108+50

OR



W20-7(O)-48
STA. 108+50

* MUST BE REMOVED WHEN FLAGGERS OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

SEE PLAN SHEET SW5 FOR MAINTENANCE OF TRAFFIC
GENERAL NOTES AND SUGGESTED SEQUENCE OF CONSTRUCTION
AND MAINTENANCE OF TRAFFIC.

LEGEND

- SIGN ON PERMANENT OR PORTABLE SUPPORT
- DIRECTION OF TRAFFIC

FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 60C48\ADD\CADD Sheets\Civil\60C48-sht-MOT-PUMP STA-sheet 1.dgn



USER NAME = TMiller	DESIGNED - AB	REVISED -
DRAWN - AB	REVISIONS -	
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PLOT DATE = 3/6/2018	DATE - 08-30-17	REVISED -

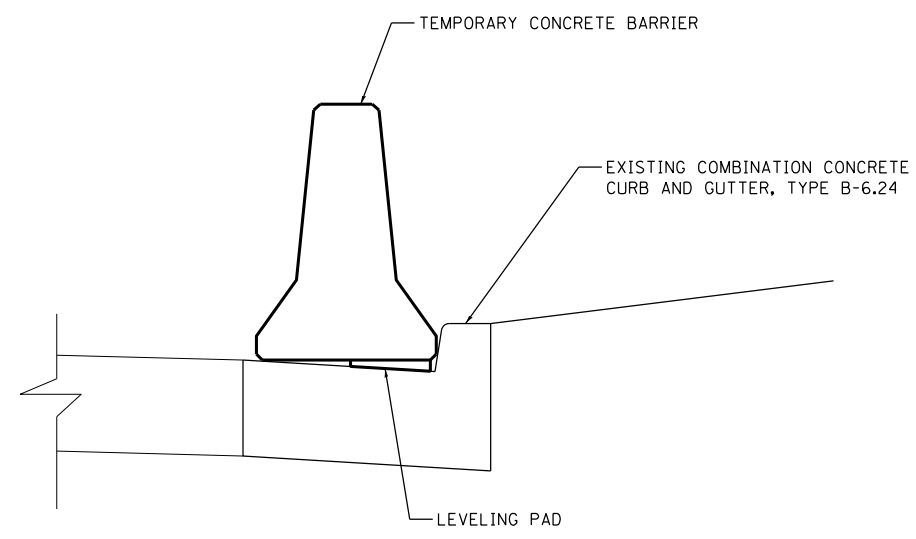
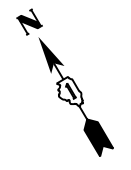
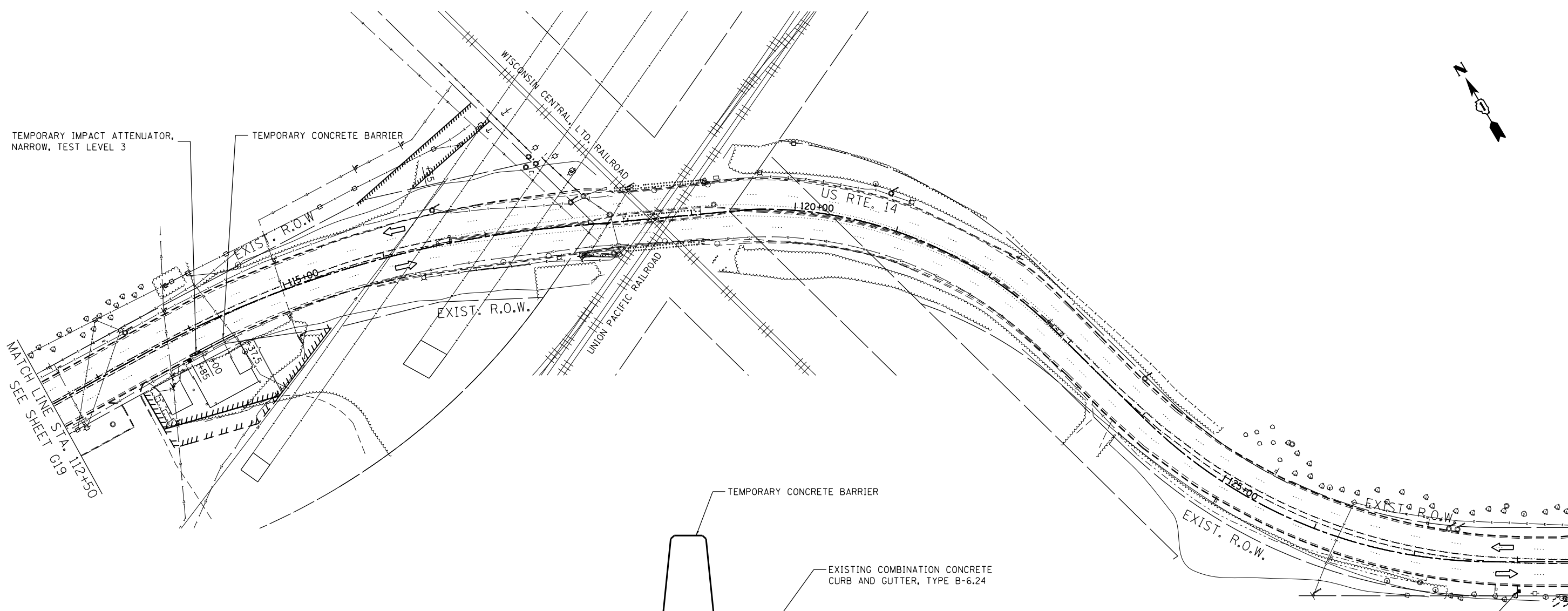
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - PUMP STATION 8
US ROUTE 14**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.




F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	20
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 60C48\CAADD\CADD Sheets\Civil\13016C48-sht-MOT-PUMP STA-sheet 2.dgn



DETAIL A

END WORK ZONE SPEED LIMIT
G20-1103-6036
STA. 128+00

- LEGEND**
-  SIGN ON PERMANENT OR PORTABLE SUPPORT
 -  DIRECTION OF TRAFFIC
 -  FLAGGER



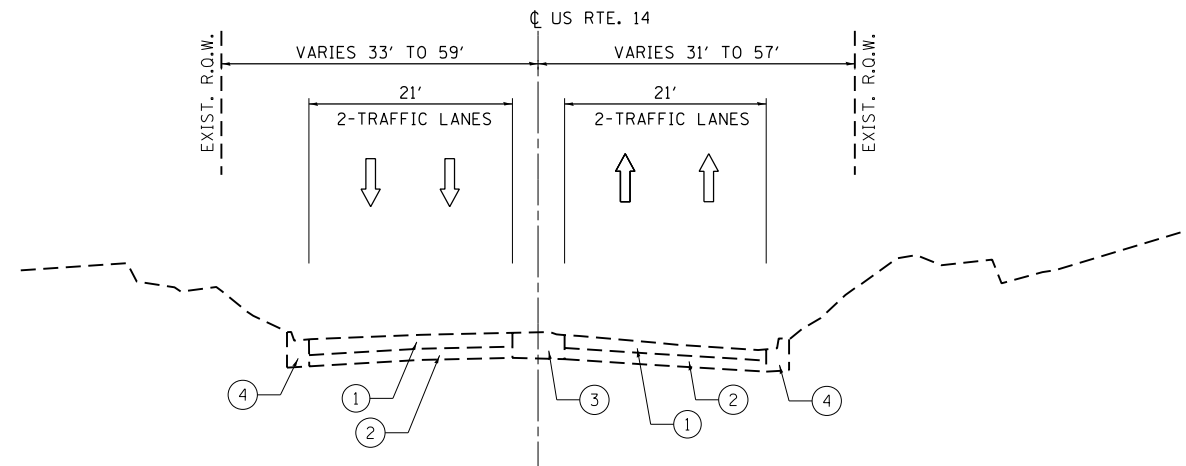
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DRAWN - AB	REVISIONS -	
PLOT SCALE = 100.0000' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 3/6/2018	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

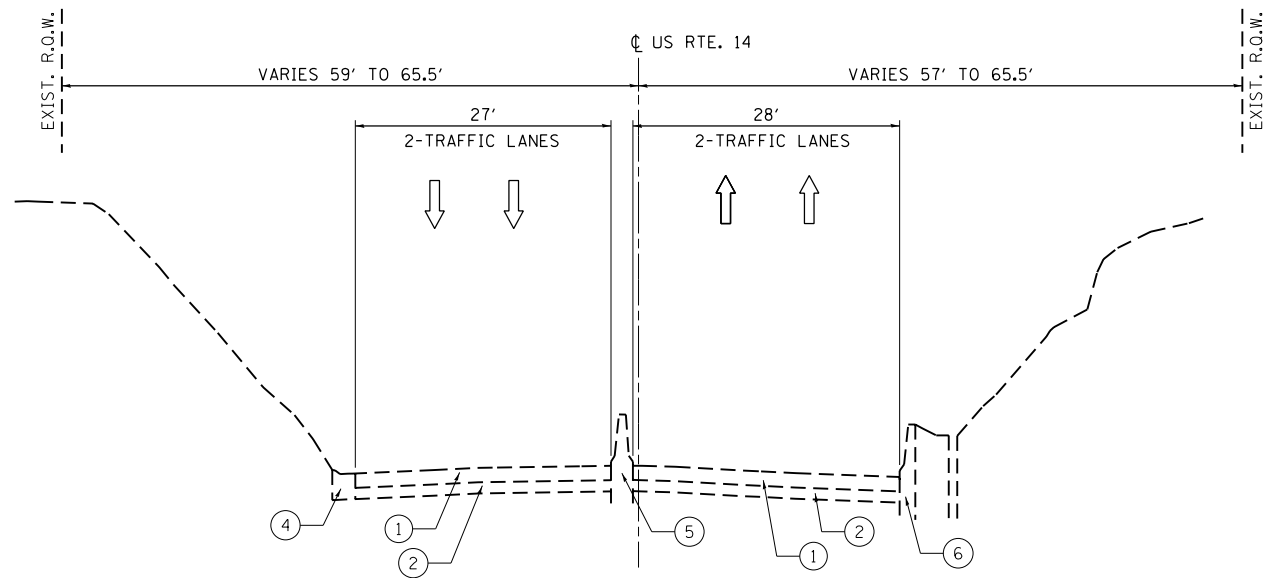
**MAINTENANCE OF TRAFFIC - PUMP STATION 8
US ROUTE 14**

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	21
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				



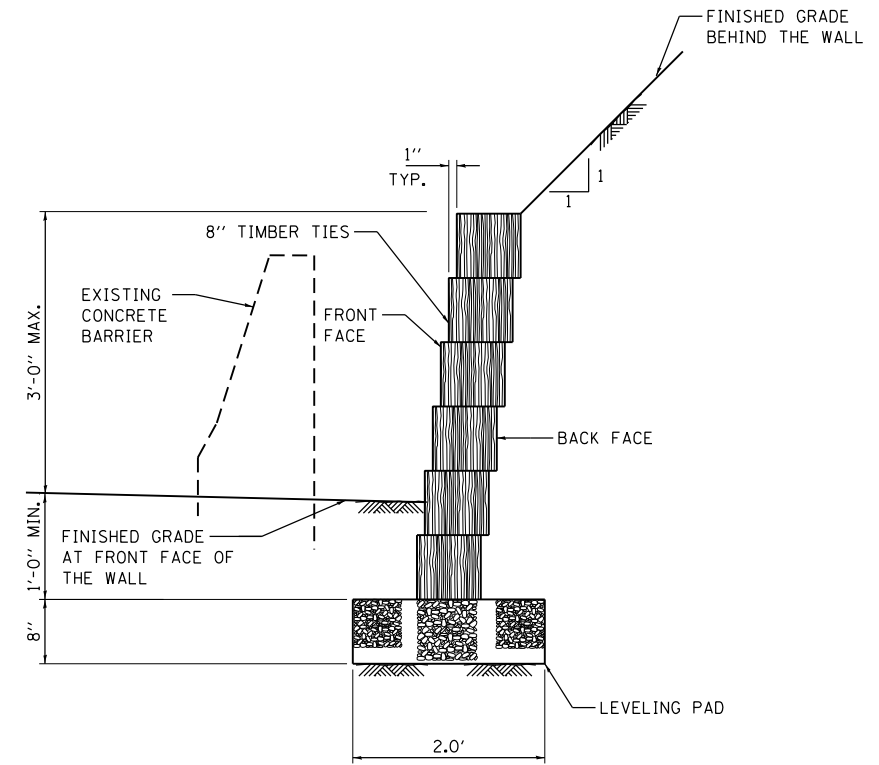
EXISTING TYPICAL SECTION
STA. 113+00 TO 116+65



EXISTING TYPICAL SECTION
STA. 116+65 TO 118+05

LEGEND

- ① EXISTING HMA PAVEMENT ±9"
- ② EXISTING AGGREGATE BASE ±7"
- ③ EXISTING CONCRETE CORRUGATED MEDIAN
- ④ EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑤ EXISTING CONCRETE BARRIER, DOUBLE FACE
- ⑥ EXISTING CONCRETE BARRIER, SINGLE FACE



TIMBER RETAINING WALL DETAIL

HMA MIXTURE REQUIREMENTS CHART

OPERATION	MIXTURE TYPE	AIR VOIDS (%) @ Ndes	QUALITY MANAGEMENT PROGRAM (OMP)
CLASS D PATCHES, 10", (SPECIAL)	HMA BINDER COURSE, (IL-19.0 mm), N70, 8½" HMA SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 1½"	4% @ 70 GYR. 4% @ 70 GYR.	QC/OA QC/OA
NEW SITE PAVEMENT	HMA BINDER COURSE, IL-19.0, N50, 2½" HMA SURFACE COURSE MIX "D", N50 (IL 9.5 mm), 1½"	4% @ 50 GYR. 4% @ 50 GYR.	QC/OA QC/OA

OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA)

NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SO YD/IN
2. THE "AC TYPE" FOR NON-POLYMERIZED HMA SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
4. QUALITY MANAGEMENT PROGRAM (OMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
5. SEE "NEW SITE PAVEMENT" DETAILS ON SHEET G12 FOR THE TYPICAL PAVEMENT SECTION.

FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 60749\CADD\CADD Sheets\Civil\13016C48-shr-Typ Sect.dgn



USER NAME = jent	DESIGNED - JN	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/29/2017	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS US RTE. 14	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	22
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

LANDSCAPING SCHEDULE										
LOCATION STATION TO STATION	OFFSET (LT/RT)	SEEDING CLASS 3 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH METHOD 2 (ACRE)	EROSION CONTROL BLANKET (SQ YD)	COMPOST FURNISH AND PLACE 2" (SQ YD)	TEMPORARY EROSION CONTROL SEEDING (POUND)	TOPSOIL EXCAVATION & PLACEMENT (CU YD)
114+44 TO 117+80	RT	0.19	17.5	17.5	17.5	0.19	941	941	39	105
ROUNDED TOTAL		0.25	18	18	18	0.25	941	941	40	105

THERMOPLASTIC PAVEMENT MARKING SCHEDULE		
LOCATION STATION TO STATION	LINE COLOR / TYPE	4" (FOOT)
106+95 TO 110+00	10' DASH- 30' SKIP	90
110+45 TO 112+20	DOUBLE YELLOW SOLID	350
112+60 TO 114+25	10' DASH - 30' SKIP	50
129+21 TO 132+40	DOUBLE YELLOW SOLID	638
133+20 TO 135+00	10' DASH- 30' SKIP	60
ON CLASS D PATCH:		
117+76 TO 117+96	10' DASH- 30' SKIP	10
117+76 TO 117+96	YELLOW SOLID	10
117+86 TO 117+96	10' DASH- 30' SKIP	10
117+86 TO 117+96	YELLOW SOLID	20
TOTAL		1238

AGGREGATE SCHEDULE	
LOCATION STATION TO STATION	AGGREGATE BASE COURSE, TYPE B, 6" (SQ YD)
114+45 TO 114+55	4
117+30 TO 117+90	76
117+80 TO 118+05	52
117+27 TO 117+60	11
117+27 TO 117+60	5
117+72 TO 117+92	6
TOTAL	154

PROTECTIVE COAT SCHEDULE	
LOCATION STATION TO STATION	PROTECTIVE COAT (SQ YD)
114+45 TO 114+55	4
117+27 TO 117+60	19
117+27 TO 117+60	16
117+72 TO 117+92	16
TOTAL	55

INLET FILTERS SCHEDULE	
LOCATION	INLET FILTERS (EACH)
117+13.4	1
117+58.6	1
118+21.6	1
118+27	1
118+71.9	1
118+18.6	1
118+66.3	1
119+18.3	1
TOTAL	8

FENCE SCHEDULE			
LOCATION STATION TO STATION	OFFSET	PERIMETER EROSION BARRIER (FOOT)	TEMPORARY FENCE (FOOT)
114+59 TO 115+25	RT		74
114+75 TO 117+82	RT	301	
115+25 TO 116+38	RT		108
116+38 TO 117+46	RT		103
117+46 TO 117+75	RT		40
TOTAL		301	325

CONCRETE BARRIER SCHEDULE					
LOCATION STATION TO STATION	OFFSET	CONCRETE BARRIER, SINGLE FACE, 32 INCH HEIGHT (FOOT)	CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT (FOOT)	CONCRETE BARRIER BASE (FOOT)	BARRIER WALL REMOVAL (FOOT)
117+72 TO 117+92	LT		20	20	20
117+27 TO 117+60	RT	33		33	33
TOTAL		33	20	53	53

GUTTERS TO BE CLEANED SCHEDULE	
LOCATION STATION TO STATION	GUTTERS TO BE CLEANED (FOOT)
116+50 TO 117+27	77
117+60 TO 118+31	71
TOTAL	148

PAVEMENT MARKER SCHEDULE		
LOCATION STATION TO STATION	TYPE	RAISED REFLECTIVE PAVEMENT MARKER (EACH)
117+86 TO 117+96	ONE WAY CRYSTAL	2
117+76 TO 117+86	ONE WAY CRYSTAL	2
TOTAL		4

CONCRETE CURB & GUTTER SCHEDULE		
LOCATION STATION TO STATION	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24 (FOOT)	COMBINATION CURB & GUTTER REMOVAL (FOOT)
114+45 TO 114+55	10	10
TOTAL	10	10

TIMBER RETAINING WALL SCHEDULE		
LOCATION STATION TO STATION	TIMBER RETAINING WALL (SQ FT)	TIMBER RETAINING WALL REMOVAL (FOOT)
116+50 TO 117+80	390	260
TOTAL	390	260

CONCRETE GUTTER SCHEDULE		
LOCATION STATION TO STATION	CONCRETE GUTTER, TYPE A (FOOT)	GUTTER REMOVAL (FOOT)
117+27 TO 117+60	33	33
TOTAL	33	33

PAVEMENT SCHEDULE			
LOCATION STATION TO STATION	OFFSET	CLASS D PATCHES, TYPE IV, 10 INCH (SPECIAL) (SQ YD)	BITUMINOUS MATERIALS (TACK COAT) (POUND)
117+30 TO 117+90	RT	76	17
117+80 TO 118+05	LT	51	12
TOTAL		127	29

MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION		
LOCATION	OFFSET	MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION (EACH)
110+34	RT	1
118+34		1
119+08		1
126+24	RT	1
130+88	LT	1
TOTAL		5

FILE NAME = Q:\Engineering\Live\Projects\13016 IDOT DURN\3016-WO 3 Contract No. 60749\CAOD\CAOD Sheets\Civil\060C48-shr-Schedule of Quantities.dgn



USER NAME = johnn	DESIGNED - AB	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN - AB	REVISED -
PLOT DATE = 3/6/2018	CHECKED - IE	REVISED -
	DATE - 08-30-17	REVISED -

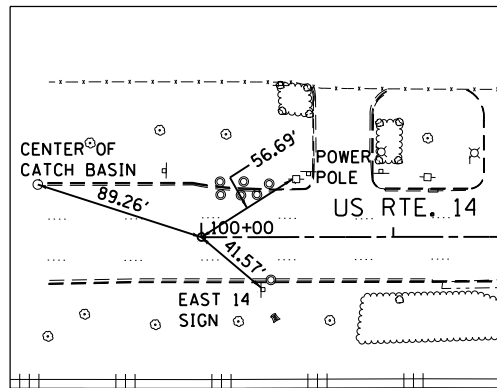
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
US ROUTE 14**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C48	

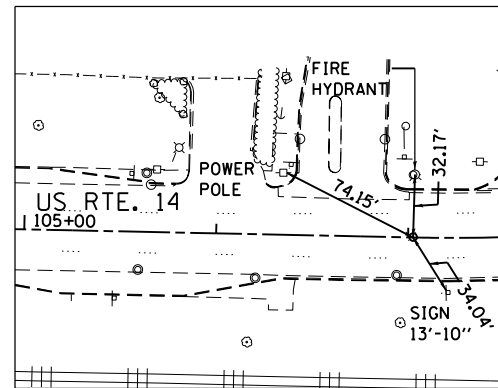
SW2



CENTERLINE TIE

US RTE. 14

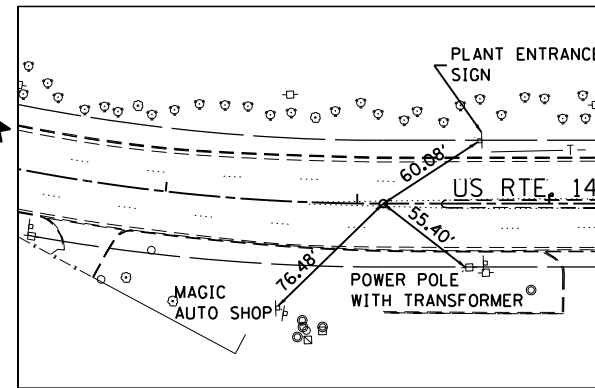
BEGIN PROJECT
MAG NAIL
STA. 100+00
N 1960719.17
E 1100816.28



CENTERLINE TIE

US RTE. 14

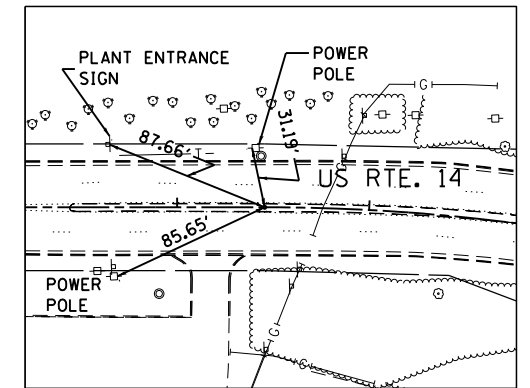
PC CURVE-1
MAG NAIL
STA. 107+02.63
N 1960360.99
E 1101420.76



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US RTE. 14

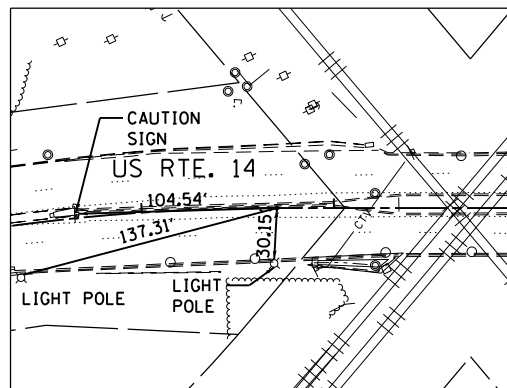
PT CURVE-1
MAG NAIL
STA. 112+13.60
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E 1101906.28



CENTERLINE TIE

US RTE. 14

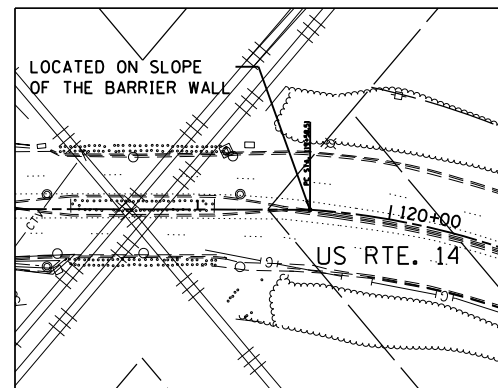
PC CURVE-2
CHISELLED "X"
STA. 113+45.59
N 1960216.07
E 1102038.21



CENTERLINE TIE

US RTE. 14

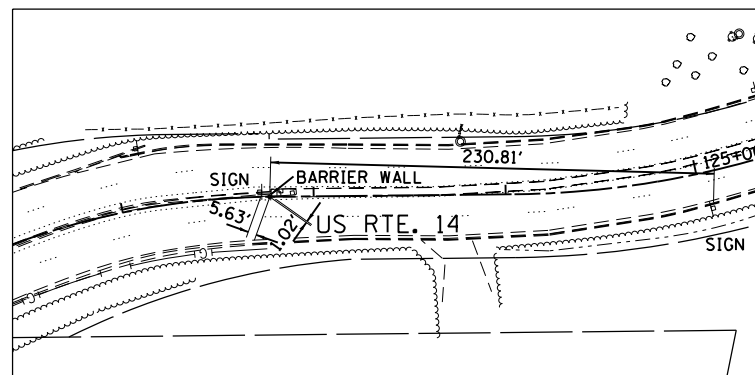
PT CURVE-2
MAG NAIL
STA. 117+70.37
N 1960117.53
E 1102448.33



CENTERLINE TIE

US RTE. 14

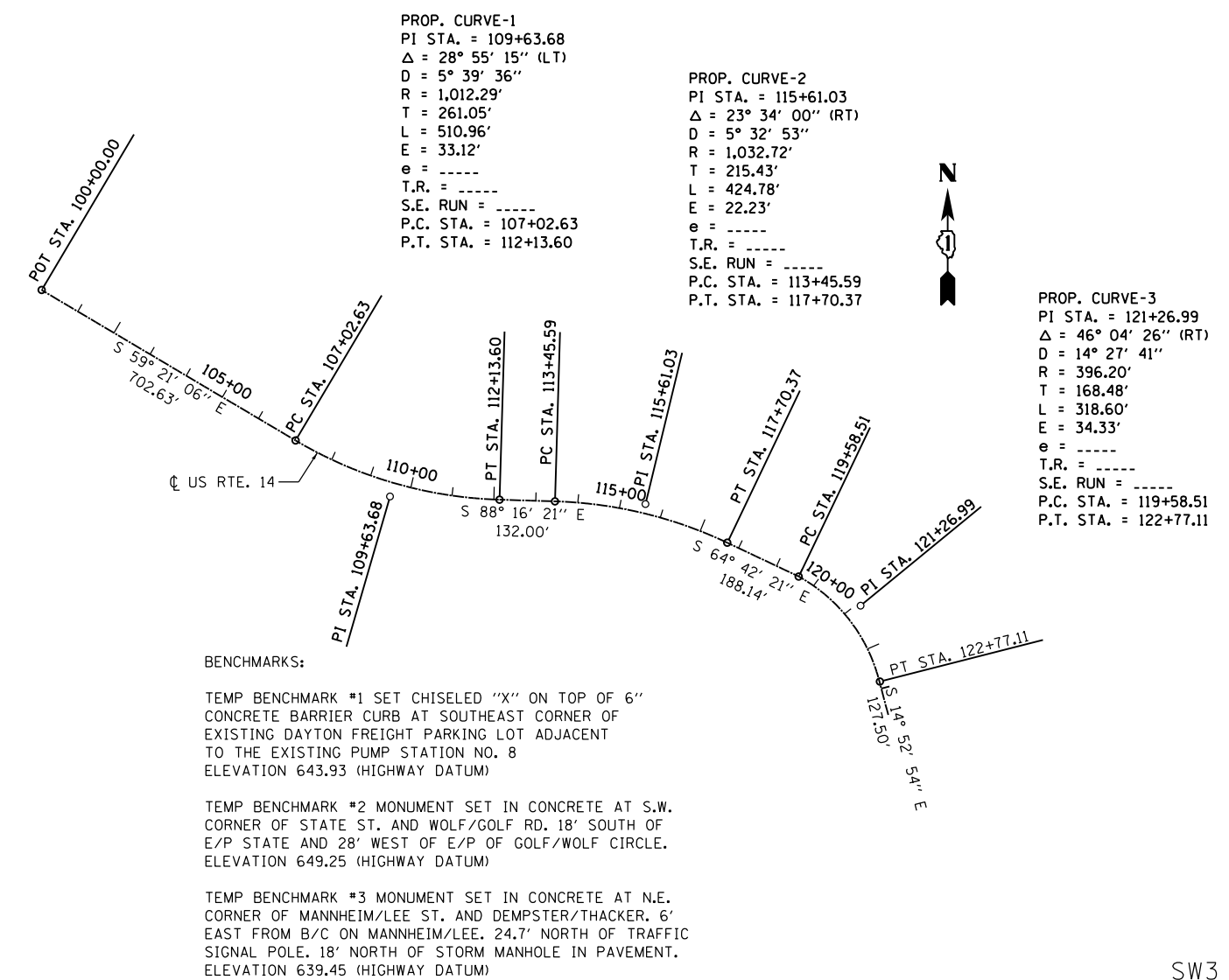
PC CURVE-3
STA. 119+58.51
N 1960037.14
E 1102618.43



CENTERLINE TIE

US RTE. 14

PT CURVE-3
MAG NAIL
STA. 122+77.11
N 1959792.52
E 1102808.99



FILE NAME = G:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 60749\CAADD\CAADD Sheets\C:\1\1806C48-sht-ATB.dgn



USER NAME = jent	DESIGNED - JN	REVISD -
PLOT SCALE = 400.0000' / in.	DRAWN - JN	REVISD -
PLOT DATE = 8/29/2017	CHECKED - TGM	REVISD -
	DATE - 08-30-17	REVISD -

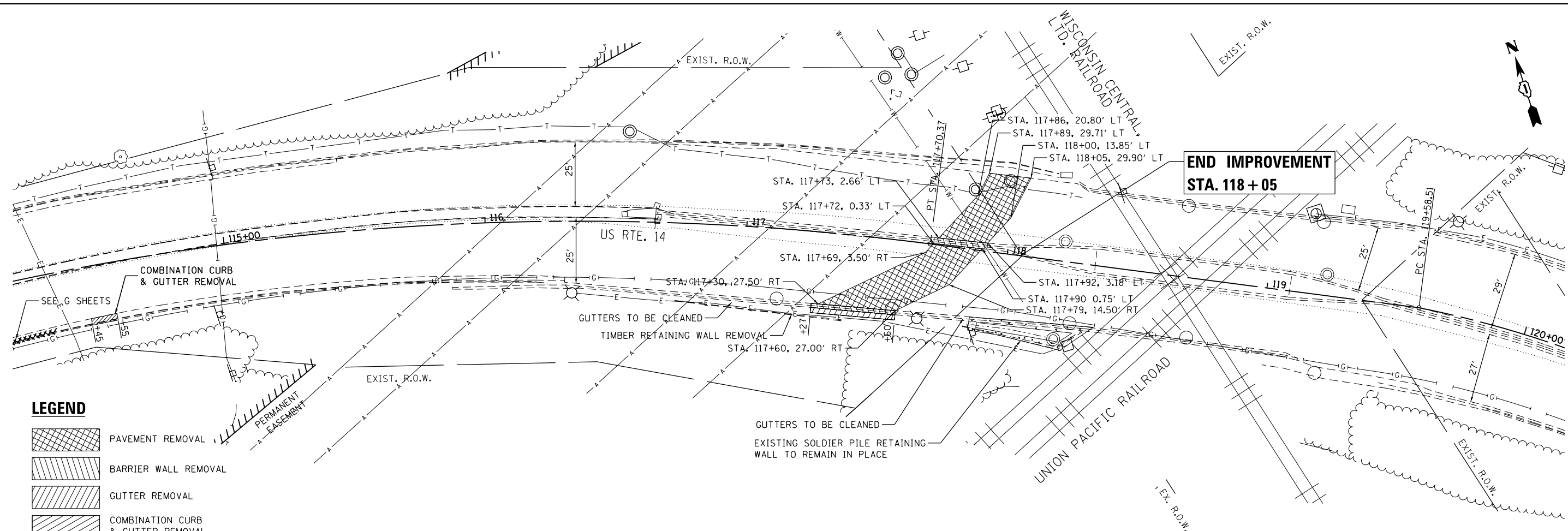
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS			
US ROUTE 14			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

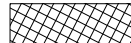


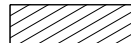
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	24
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

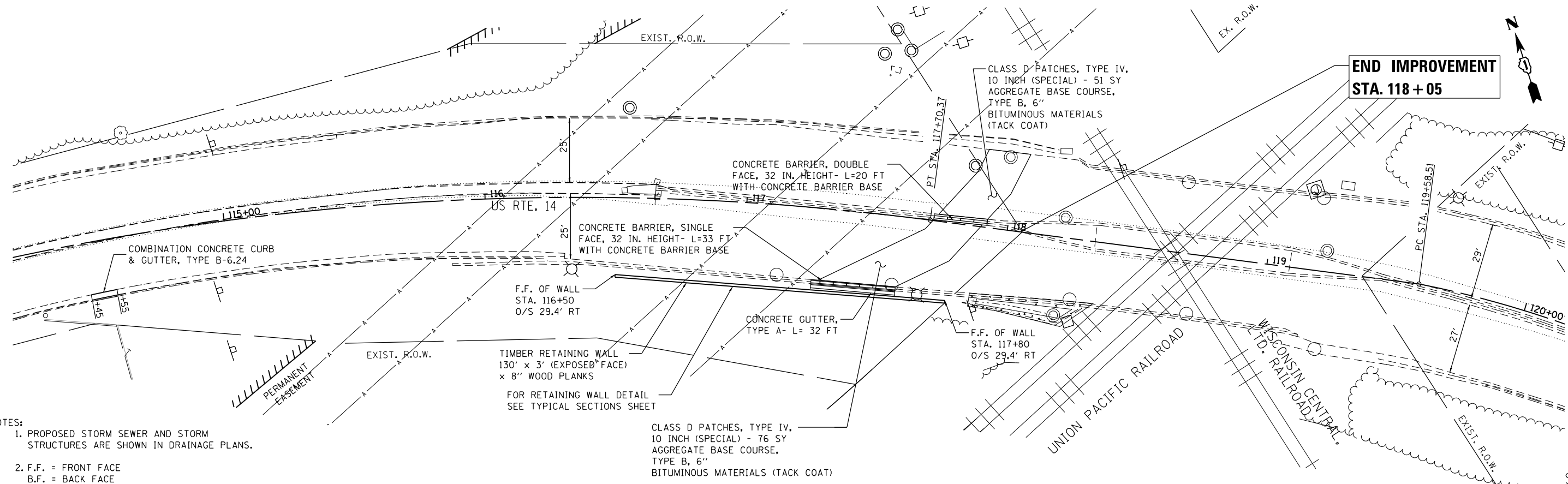
SW3

FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DURN\3016c-W0 3 Contract No. 60749\CADD\CADD Sheets\Civil\060C48-shr-Plan.dgn



LEGEND

-  PAVEMENT REMOVAL
-  BARRIER WALL REMOVAL
-  GUTTER REMOVAL
-  COMBINATION CURB & GUTTER REMOVAL



NOTES:

1. PROPOSED STORM SEWER AND STORM STRUCTURES ARE SHOWN IN DRAINAGE PLANS.
2. F.F. = FRONT FACE
B.F. = BACK FACE

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED PLAN
US ROUTE 14**



USER NAME = Tmiller	DESIGNED - SAT	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - SAT	REVISED -
PLOT DATE = 2/26/2018	CHECKED - TGM	REVISED -
	DATE - 08-30-17	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	25
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW4

GENERAL NOTES:

1. THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN IN THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS OR SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABOR, SIGNS AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
4. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING THE WORK.
5. THE CONTRACTOR SHALL PLACE ONE (1) PORTABLE CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING CONSTRUCTION ACTIVITIES A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO CONSTRUCTION. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR MONTH FOR CHANGEABLE MESSAGE SIGN.
6. WORK ZONE SPEED LIMIT SHALL BE 30 MPH.
7. DRUMS, CONES AND DIRECTIONAL BARRICADES SHALL BE PROVIDED AS SHOWN IN THE PLANS. CONES SPACED AT 50 FEET CENTER TO CENTER, DRUMS AND DIRECTIONAL BARRICADES SPACED AT 20 FEET CENTER TO CENTER IN TAPERS AND 25 FEET CENTER TO CENTER IN TANGENTS THRU THE FULL LENGTH OF THE CONSTRUCTION WORK ZONE. ALL DRUMS AND DIRECTIONAL BARRICADES REMAINING IN PLACE OVER NIGHT SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS IN MULTILANE SECTIONS.
8. ALL ROAD CONSTRUCTION AHEAD SIGNS, ROAD CLOSED AHEAD SIGNS AND TYPE III BARRICADES SHALL BE EQUIPPED WITH MONO-DIRECTIONAL TYPE A AMBER FLASHING LIGHTS.
9. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
10. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.
11. THE ENGINEER SHALL BE INFORMED A MINIMUM OF 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
12. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
13. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3" X 6" DELINEATOR INSTALLED, COST OF THE DELINEATOR IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
14. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED OR OTHERWISE AFFECTED BY CONSTRUCTION.
15. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE AND EROSION CONTROL PROTECTION DURING ALL PHASES OF CONSTRUCTION.

SUGGESTED SEQUENCE OF CONSTRUCTION & MAINTENANCE OF TRAFFIC

THE FOLLOWING SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC IS SUGGESTED. VARIATIONS MAY BE MADE WITH THE APPROVAL OF THE ENGINEER. FOR EACH STAGE OF CONSTRUCTION, PROVIDE TRAFFIC CONTROL AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS. COORDINATE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES WITH THE EXISTING TRAFFIC PATTERNS AT THE PROJECT LIMITS.

PUMP STATION

1. INSTALL PUMP STATION MAINTENANCE OF TRAFFIC
2. CONSTRUCT NEW PUMP STATION 8 INCLUDING THE TUMBLING BASIN. DELAY CONSTRUCTION OF THE FORCE MAIN UNTIL INSTALLATION AND BACKFILL OF MH-200, P7, MH-100, P1, MH-101, P2, MH-102, P3 AND MH-103 ARE COMPLETE.

PRE-STAGE:

1. INSTALL PORTABLE CHANGEABLE MESSAGE SIGNS AS DIRECTED BY THE ENGINEER.
2. INSTALL EROSION CONTROL DEVICES AS PER THE EROSION CONTROL PLAN.

STAGE I:

1. CLOSE THE EASTBOUND OUTSIDE LANE OF US ROUTE 14 UTILIZING THE MAINTENANCE OF TRAFFIC - STAGE I PLANS FOR CONSTRUCTION OF THE STORM SEWER SYSTEM BETWEEN AND INCLUDING MH-100 THRU MH-103. THE LANE CLOSURE CAN BE REMOVED WHEN THE BACKFILL OF THE STORM SEWER TRENCH HAS BEEN COMPLETED AND THE PUMP STATION FORCE MAIN HAS BEEN INSTALLED UNDER US ROUTE 14.

STAGE II:

1. SHIFT ALL TRAFFIC TO THE WESTBOUND LANES OF US ROUTE 14 UTILIZING THE MAINTENANCE OF TRAFFIC - STAGE II PLANS.
2. REMOVE EXISTING EASTBOUND PAVEMENT, BARRIER WALLS, AND MEDIAN AS SHOWN IN THE PLANS.
3. INSTALL PROPOSED DRAINAGE SYSTEM UNDER EASTBOUND LANES.
4. CONSTRUCT THE PERMANENT PAVEMENT PATCH.

STAGE III:

1. SHIFT ALL TRAFFIC TO THE EASTBOUND LANES OF US ROUTE 14 UTILIZING THE MAINTENANCE OF TRAFFIC - STAGE III PLANS.
2. REMOVE EXISTING WESTBOUND ROADWAY PAVEMENT AS SHOWN IN THE PLANS.
3. INSTALL DRAINAGE SYSTEM UNDER THE WESTBOUND LANES.
4. CONSTRUCT THE PERMANENT PAVEMENT PATCH.

STAGE IV:

1. RECONSTRUCT BARRIER WALLS AND MEDIAN UTILIZING HIGHWAY STANDARD 701606.
2. COMPLETE LANDSCAPE RESTORATION AS PER PLANS.
3. PLACE PERMANENT PAVEMENT MARKING.
4. REMOVE TEMPORARY EROSION CONTROL DEVICES AND TEMPORARY TRAFFIC CONTROL DEVICES. UTILIZE IDOT TRAFFIC CONTROL STANDARD 701101 TO MAINTAIN TRAFFIC.

FILE NAME = O:\Engineering\LiveProjects\13016 IDOT DUR\13016-10 3 Contract No. 60749\CADD\CADD Sheets\Civil\060C48-sht-staging notes.dgn



USER NAME = johnn	DESIGNED - AB	REVISED -
	DRAWN - AB	REVISED -
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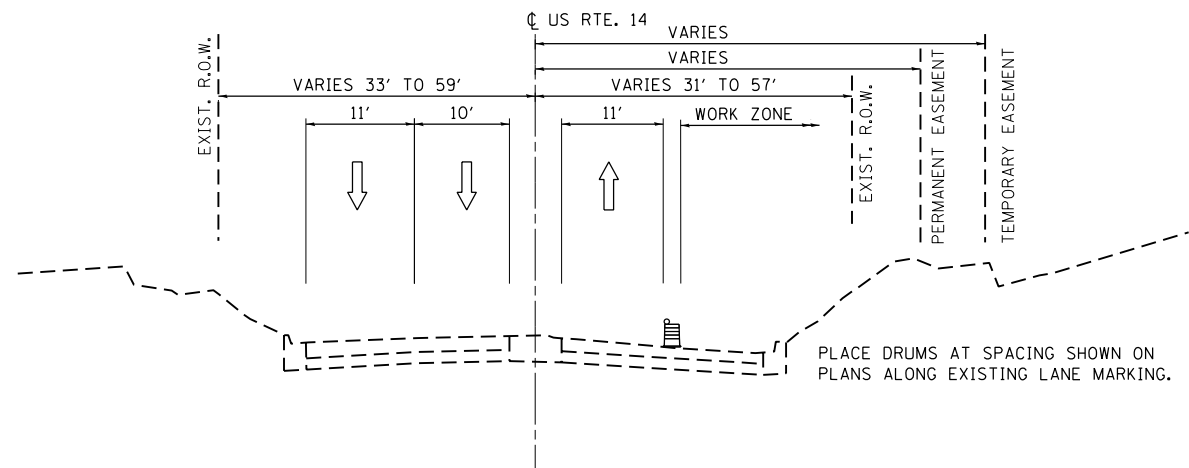
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC GENERAL NOTES
US ROUTE 14**

SCALE: SHEET OF SHEETS STA. TO STA.

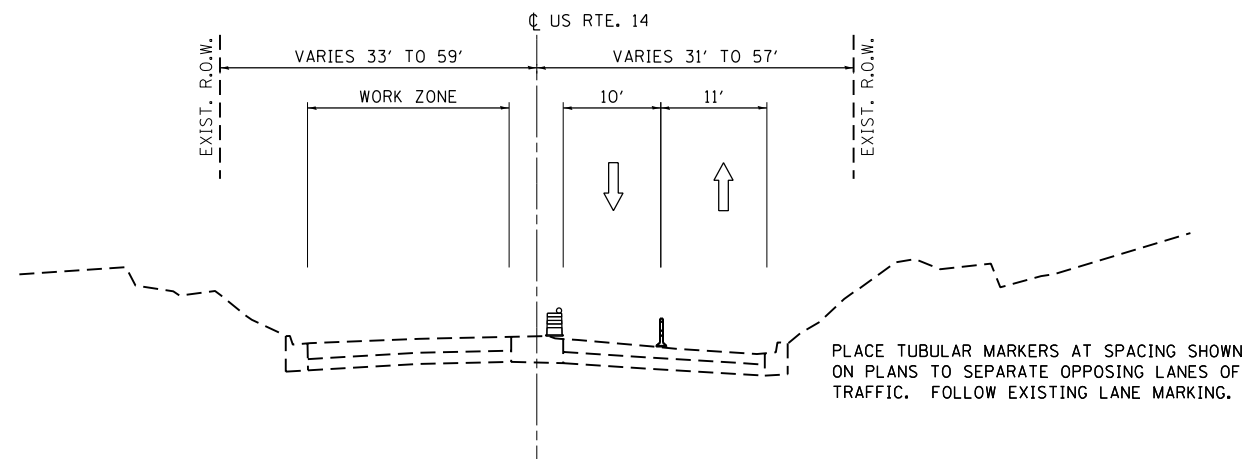
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	26
				CONTRACT NO. 60C48
ILLINOIS FED. AID PROJECT				

SW5



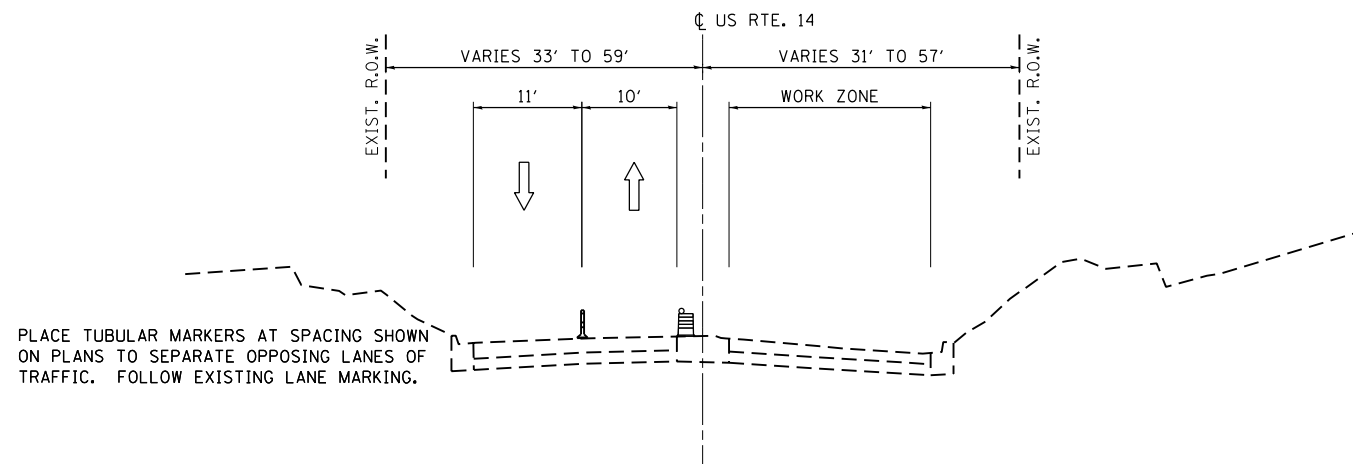
STAGE I TYPICAL SECTION

STA. 112+60 TO 117+93



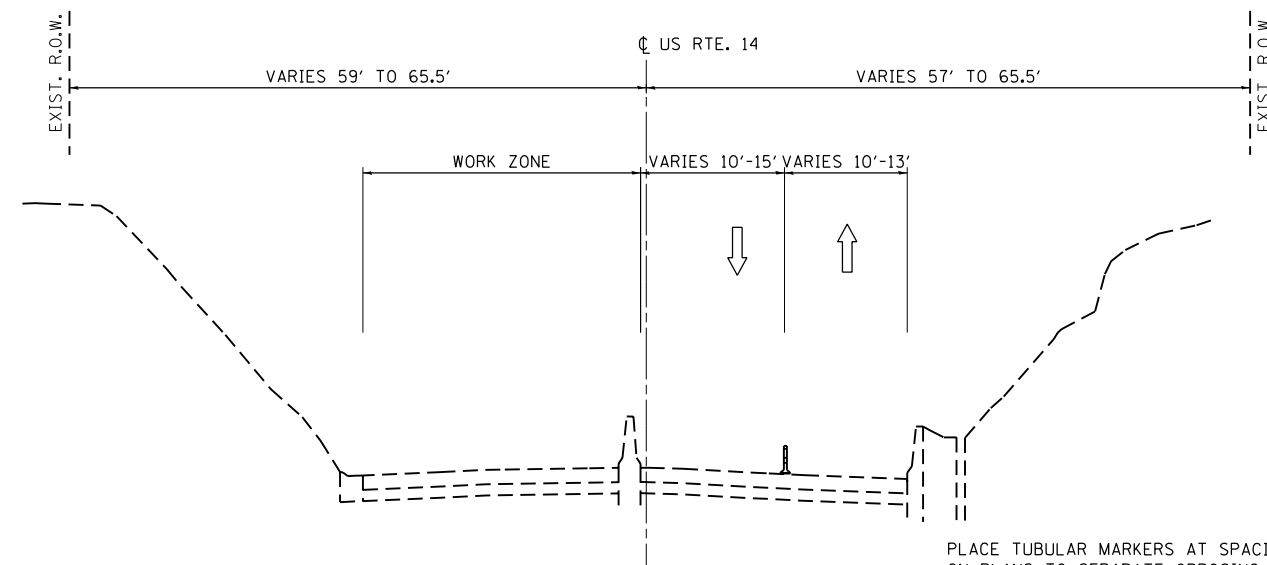
STAGE III TYPICAL SECTION

STA. 112+20 TO 116+55
 STA. 122+91 TO 129+21



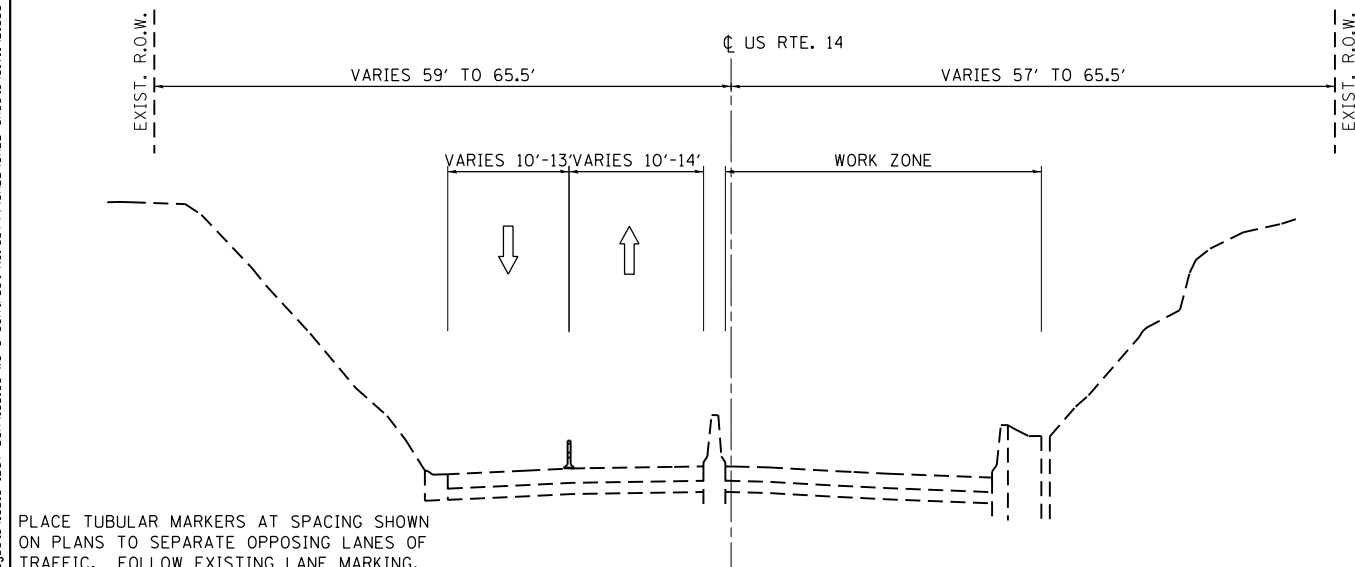
STAGE II TYPICAL SECTION

STA. 112+20 TO 116+55
 STA. 122+91 TO 129+21



STAGE III TYPICAL SECTION

STA. 116+55 TO 122+91



STAGE II TYPICAL SECTION

STA. 116+55 TO 122+91

LEGEND

- DIRECTION OF TRAFFIC
- DRUMS
- CONES

FILE NAME = Q:\Engineering\Live\Projects\13016 IDOT DURN\3016c-W0 3 Contract No. 60749\CADD\CADD Sheets\Civil\1806C48-sht-MOT_Typ_Sect.dgn



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STATE OF ILLINOIS
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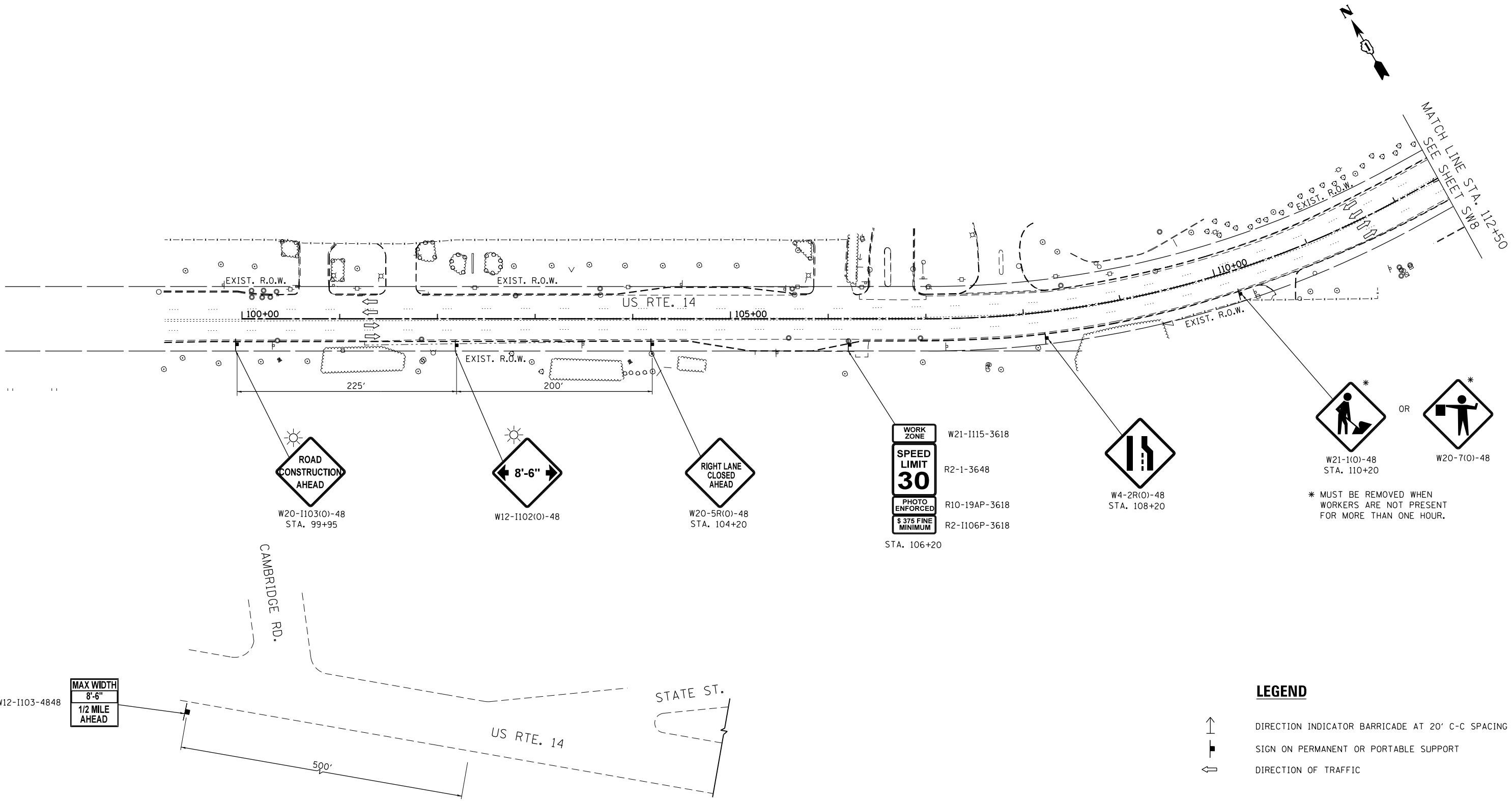
MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
 US ROUTE 14

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	27
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW6

FILE NAME = G:\Engineering\LiveProjects\13016 IDOT DURN\3016c-W0 3 Contract No. 60749\CADD\CADD Sheets\Civil\60C48-sht-MOT-Stage 1-sheet 1.dgn



**WIDTH RESTRICTION SIGNING
FOR EASTBOUND US RTE. 14**

LEGEND

- DIRECTION INDICATOR BARRICADE AT 20' C-C SPACING
- SIGN ON PERMANENT OR PORTABLE SUPPORT
- DIRECTION OF TRAFFIC

*
 W21-1(0)-48
 STA. 110+20
 OR
 *
 W20-7(0)-48
 * MUST BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

WORK ZONE W21-1115-3618
 SPEED LIMIT 30 R2-1-3648
 PHOTO ENFORCED R10-19AP-3618
 \$ 375 FINE MINIMUM R2-1106P-3618
 STA. 106+20

W4-2R(0)-48
 STA. 108+20

MAX WIDTH 8'-6"
 1/2 MILE AHEAD
 W12-1103-4848

W12-1103-4848



USER NAME = TMiller	DESIGNED - AB	REVISED -
DRAWN - AB	REVISOR -	
PLOT SCALE = 100.0000' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 3/7/2018	DATE - 08-30-17	REVISED -

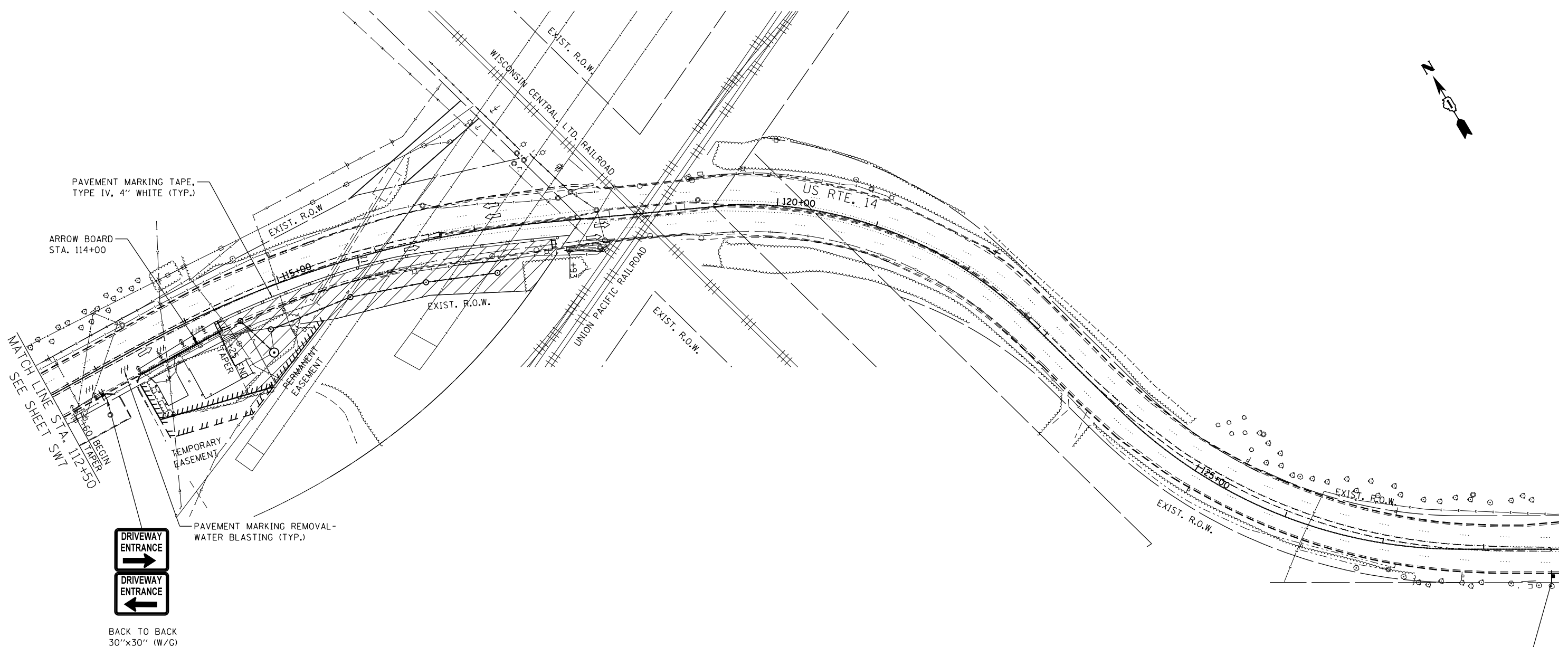
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - STAGE I	
US ROUTE 14	
SCALE: 1"=50'	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE. 3512	SECTION 86 S-1-1	COUNTY COOK	TOTAL SHEETS 156	SHEET NO. 28
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				







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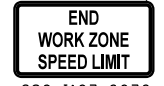
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BACK TO BACK
30"x30" (W/G)

LEGEND

-  DRUM OR TYPE II BARRICADE AT 20' C-C SPACING IN TAPERS AND 25' C-C SPACING IN TANGENTS
-  DIRECTION INDICATOR BARRICADE AT 20' C-C SPACING
-  TYPE III BARRICADE WITH 2 TYPE A FLASHERS
-  SIGN ON PERMANENT OR PORTABLE SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK ZONE



END
WORK ZONE
SPEED LIMIT
G20-1103-6036
STA. 107+67



USER NAME = TMiller	DESIGNED - AB	REVISED -
DRAWN - AB	REVISIONS -	
PLOT SCALE = 100.0000' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 3/6/2018	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

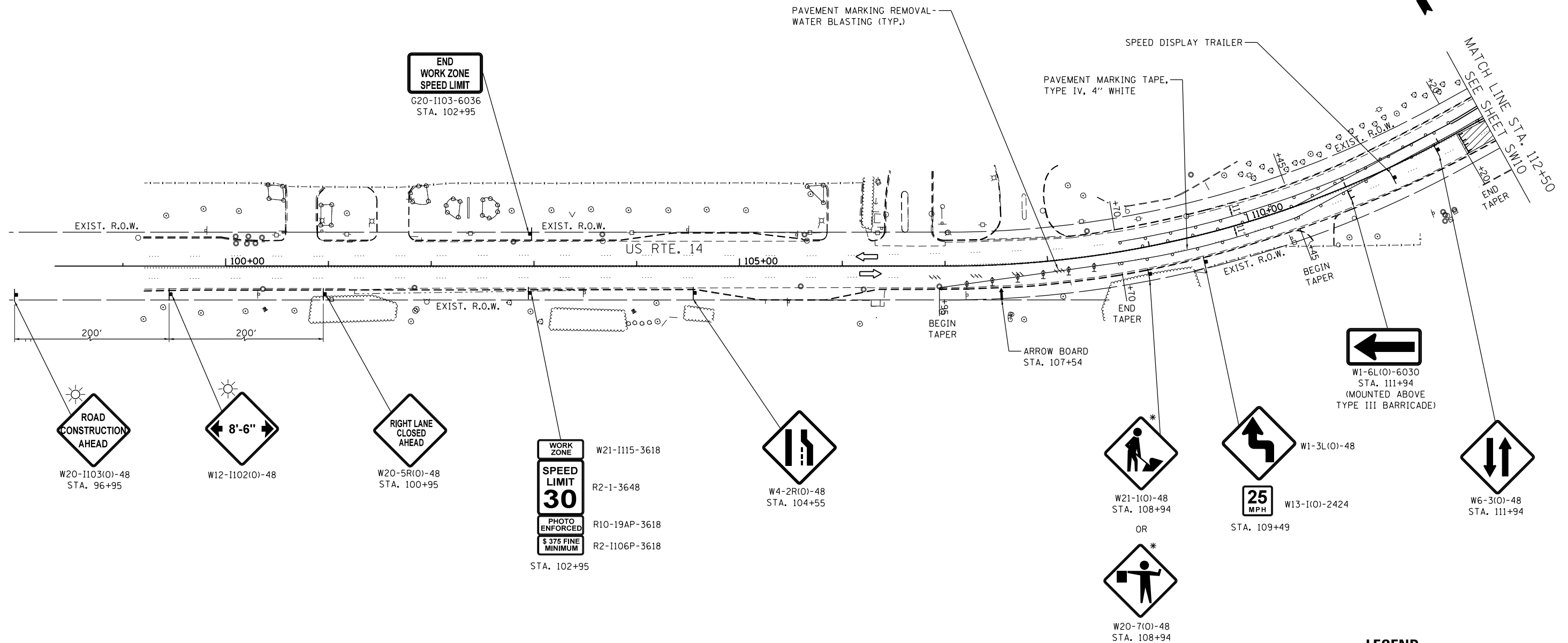
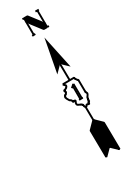
**MAINTENANCE OF TRAFFIC - STAGE I
US ROUTE 14**

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	29
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW8

SEE SHEET SW7 FOR ADVANCE LANE WIDTH
RESTRICTION SIGNING FOR EB US RTE. 14



←
W1-6L(O)-6030
STA. 111+94
(MOUNTED ABOVE
TYPE III BARRICADE)

☀
ROAD
CONSTRUCTION
AHEAD
W20-1103(O)-48
STA. 96+95

☀
← 8'-6" →
W12-1102(O)-48

RIGHT LANE
CLOSED
AHEAD
W20-5R(O)-48
STA. 100+95

WORK
ZONE
SPEED
LIMIT
30
PHOTO
ENFORCED
\$ 375 FINE
MINIMUM
W21-1115-3618
R2-1-3648
R10-19AP-3618
R2-1106P-3618
STA. 102+95

W4-2R(O)-48
STA. 104+55

W21-1(O)-48
STA. 108+94
OR
W20-7(O)-48
STA. 108+94

W1-3L(O)-48
W13-1(O)-2424
STA. 109+49

W6-3(O)-48
STA. 111+94

LEGEND

- DRUM OR TYPE II BARRICADE AT 20' C-C SPACING IN TAPERS AND 25' C-C SPACING IN TANGENTS
- ⌈ TYPE III BARRICADE WITH 2 TYPE A FLASHERS
- ⌋ SIGN ON PERMANENT OR PORTABLE SUPPORT
- ↑ DIRECTION INDICATOR BARRICADE AT 20' C-C SPACING
- ← DIRECTION OF TRAFFIC
- ▨ WORK ZONE

* MUST BE REMOVED WHEN FLAGGERS OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

FILE NAME = G:\Engineering\LiveProjects\13016 IDOT DURN\3016c-W0 3 Contract No. 80749\CADD\CADD Sheets\Civil\B06C48-sht-M01-Stage 2-sheet 1.dgn



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DRAWN - AB	REVISIONS -	
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PLOT DATE = 3/7/2018	DATE - 08-30-17	REVISED -

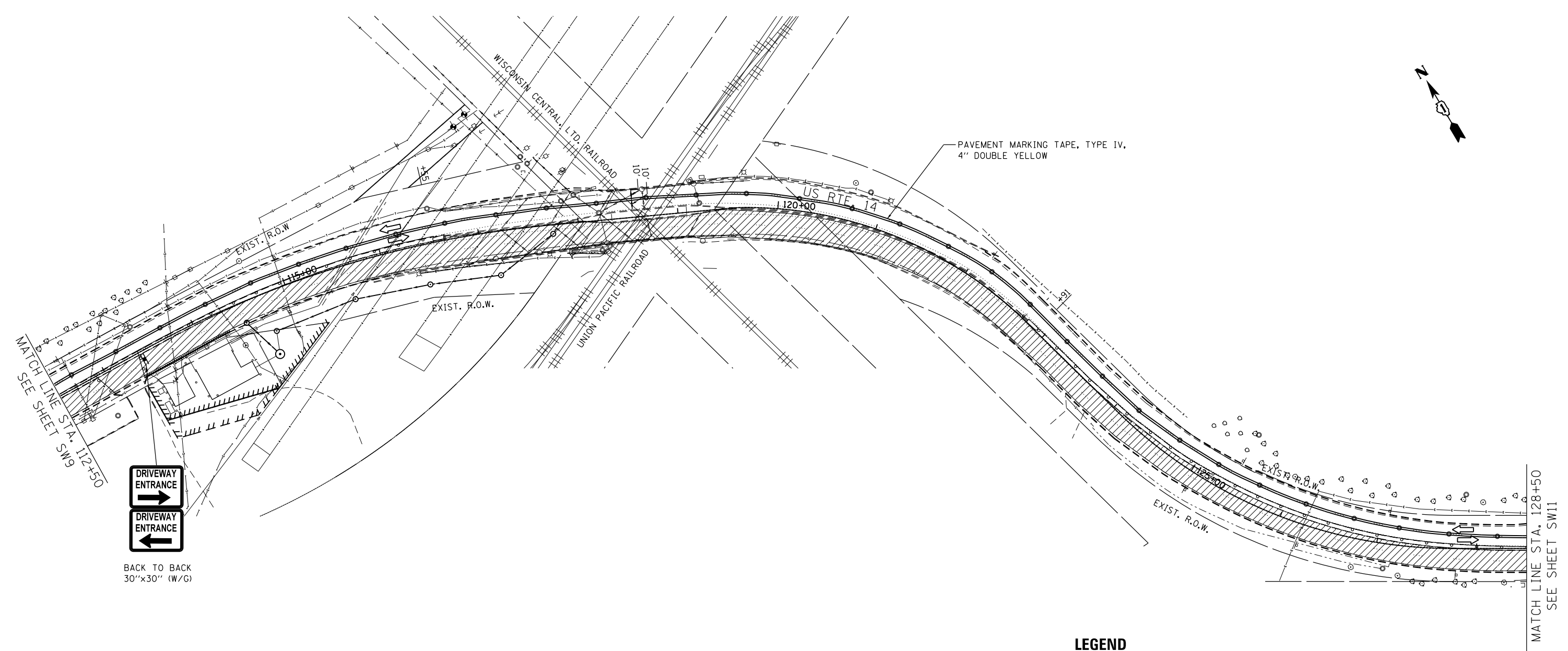
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC - STAGE II		
US ROUTE 14		
SCALE: 1"=50'	SHEET 1 OF 3 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	30
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW9

FILE NAME = G:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 60C48\CAD\CADD Sheets\Civil\13016c-WO-3-Stage 2-sheet 2.dgn



BACK TO BACK
30" x 30" (W/G)

LEGEND

- ⊙ TUBULAR MARKER AT 25' C-C SPACING IN CURVES AND 50' C-C SPACING IN TANGENTS
- ⊖ DRUM OR TYPE II BARRICADE AT 20' C-C SPACING IN TAPERS AND 25' C-C SPACING IN TANGENTS
- ⊣ SIGN ON PERMANENT OR PORTABLE SUPPORT
- ↑ DIRECTION INDICATOR BARRICADE AT 20' C-C SPACING
- ← DIRECTION OF TRAFFIC
- ▨ WORK ZONE

MATCH LINE STA. 128+50
SEE SHEET SW11



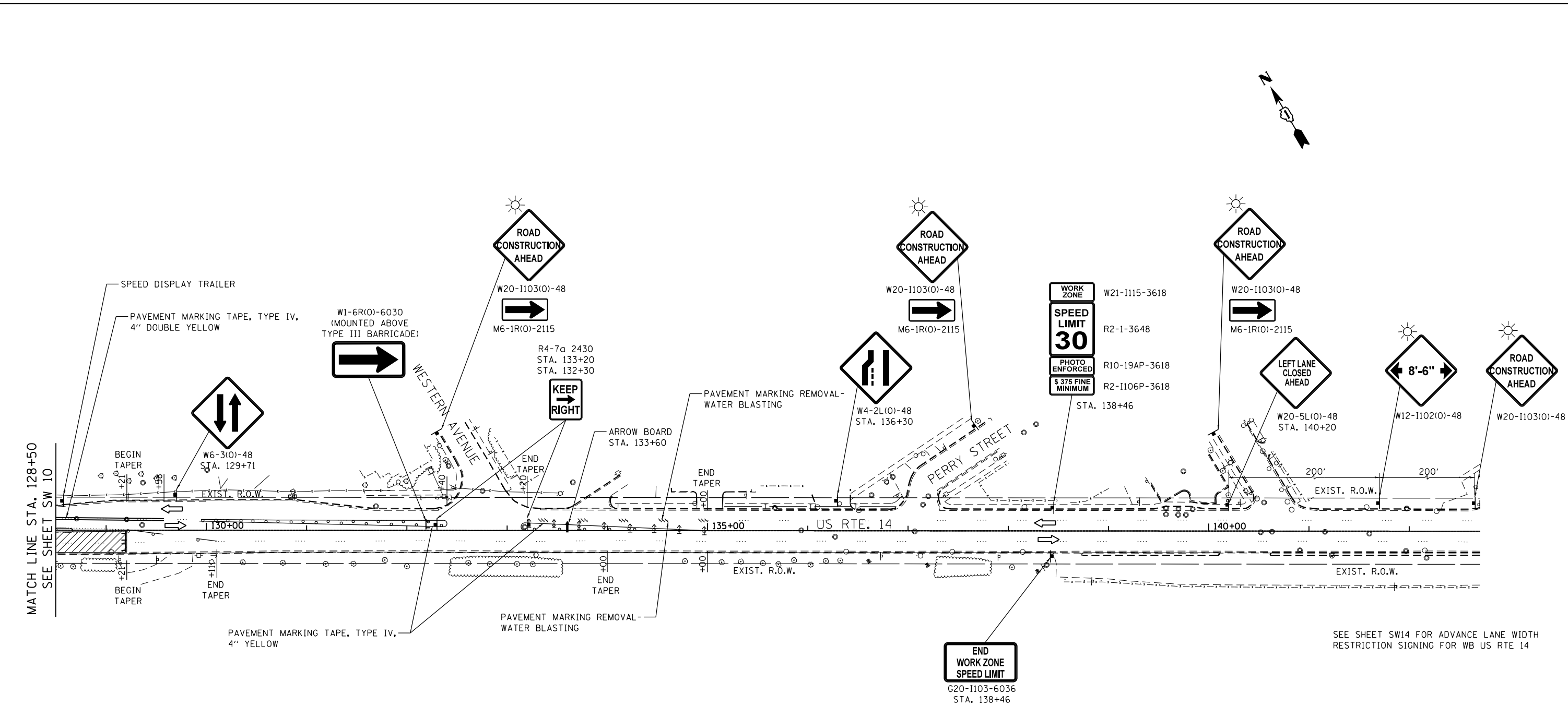
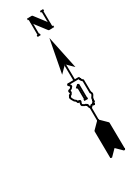
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PLOT DATE = 3/6/2018	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC - STAGE II	
US ROUTE 14	
SCALE: 1"=50'	SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	31
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW10



MATCH LINE STA. 128+50
SEE SHEET SW 10

SEE SHEET SW14 FOR ADVANCE LANE WIDTH RESTRICTION SIGNING FOR WB US RTE 14

LEGEND

	TUBULAR MARKER AT 25' C-C SPACING IN CURVES AND 50' C-C SPACING IN TANGENTS
	DRUM OR TYPE II BARRICADE AT 20' C-C SPACING IN TAPERS AND 25' C-C SPACING IN TANGENTS
	TYPE III BARRICADE WITH 2 TYPE A FLASHERS
	SIGN ON PERMANENT OR PORTABLE SUPPORT
	DIRECTION INDICATOR BARRICADE AT 20' C-C SPACING
	DIRECTION OF TRAFFIC
	WORK ZONE

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PLOT DATE = 3/7/2018	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

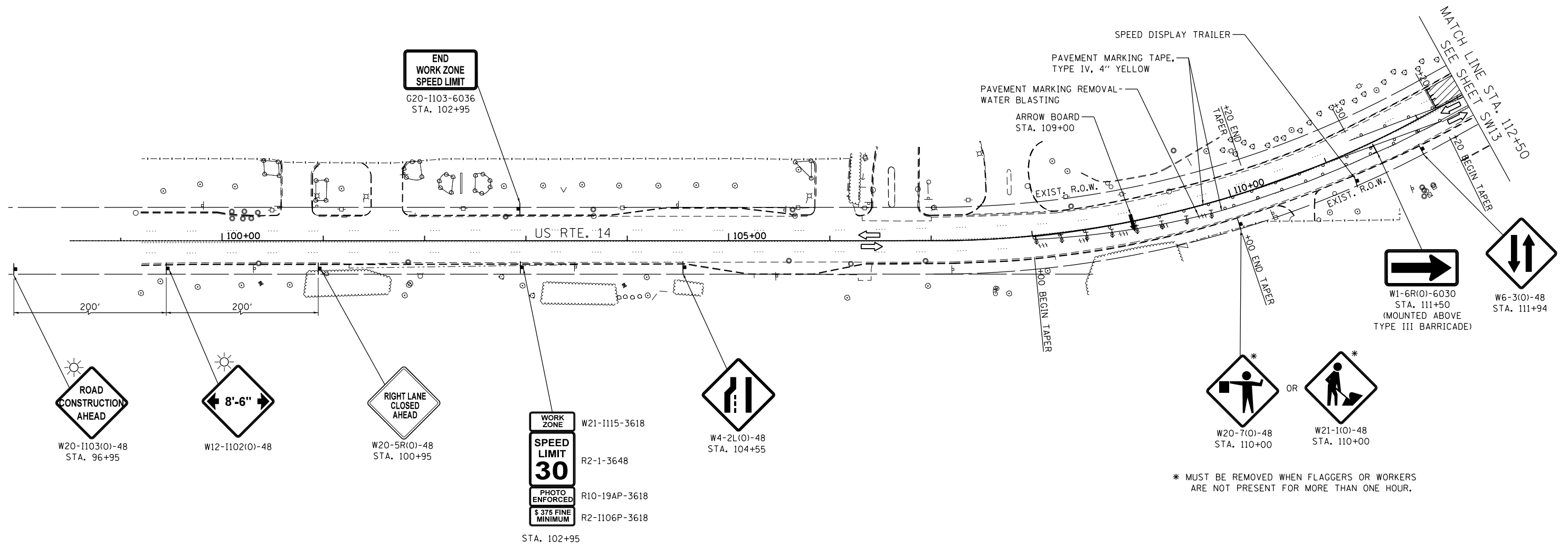
MAINTENANCE OF TRAFFIC - STAGE II	
US ROUTE 14	
SCALE: 1"=50'	SHEET 3 OF 3 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	32
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW11



SEE SHEET SW7 FOR ADVANCE LANE WIDTH
RESTRICTION SIGNING FOR EB US RTE. 14



LEGEND

- DRUM OR TYPE II BARRICADE AT 20' C-C SPACING IN TAPERS AND 25' C-C SPACING IN TANGENTS
- TYPE III BARRICADE WITH 2 TYPE A FLASHERS
- SIGN ON PERMANENT OR PORTABLE SUPPORT
- DIRECTION INDICATOR BARRICADE AT 20' C-C SPACING
- DIRECTION OF TRAFFIC
- WORK ZONE

SW12

FILE NAME = G:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 60749\CADD\CADD Sheets\Civil\60C48-sht-MOT-Stage 3-sheet 1.dgn



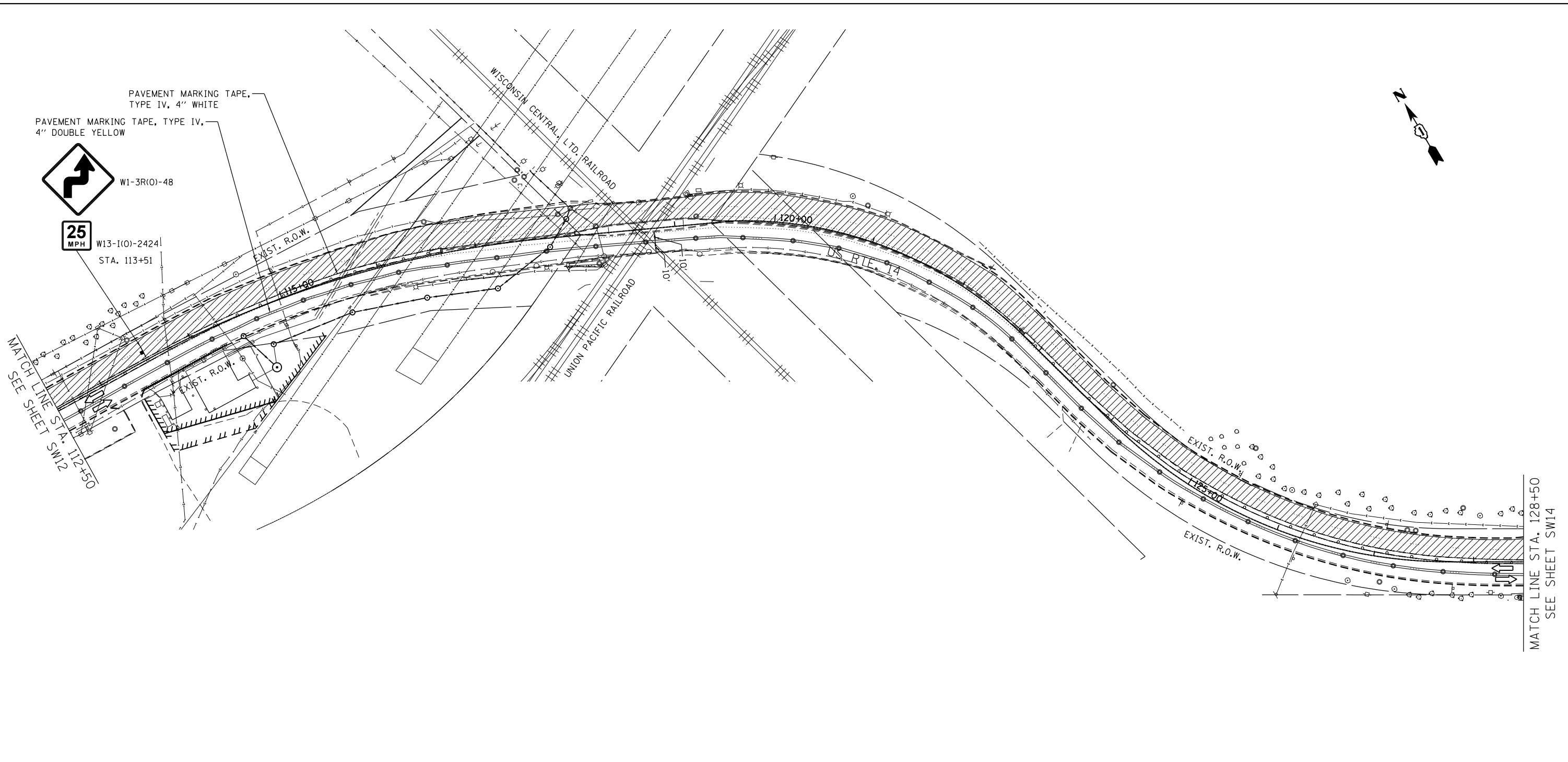
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC - STAGE III	
US ROUTE 14	
SCALE: 1"=50'	SHEET 1 OF 3 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	33
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\Engineering\LiveProjects\13016 IDOT DURN\3016c-W0 3 Contract No. 60749\CADD\CADD Sheets\Civil\60C48-sht-MOT-Stage 3-sheet 2.dgn



PAVEMENT MARKING TAPE, TYPE IV, 4" WHITE
 PAVEMENT MARKING TAPE, TYPE IV, 4" DOUBLE YELLOW
 W1-3R(0)-48
 W13-I(0)-2424
 STA. 113+51



LEGEND

- ⊙ TUBULAR MARKER AT 25' C-C SPACING IN CURVES AND 50' C-C SPACING IN TANGENTS
- ⊖ DRUM OR TYPE II BARRICADE AT 20' C-C SPACING IN TAPERS AND RADII AND 25' C-C SPACING IN TANGENTS
- ⊥ TYPE III BARRICADE WITH 2 TYPE A FLASHERS
- ⊥ SIGN ON PERMANENT OR PORTABLE SUPPORT
- ↑ DIRECTION INDICATOR BARRICADE AT 25' C-C SPACING
- ← DIRECTION OF TRAFFIC
- ▨ WORK ZONE



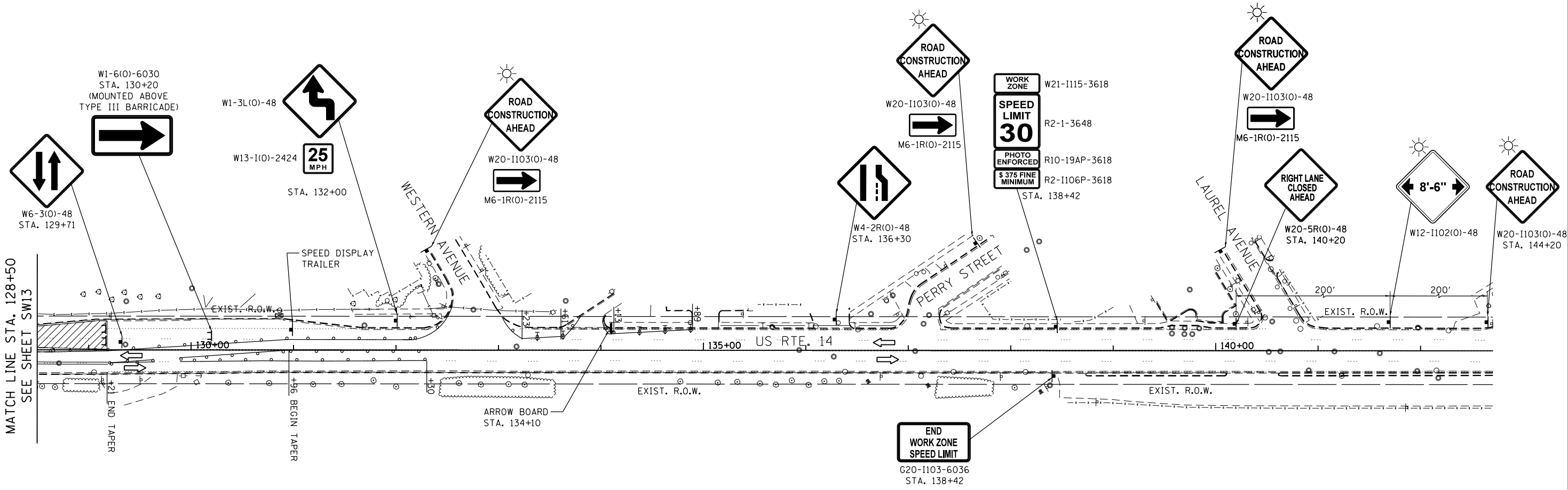
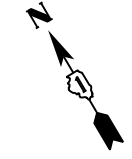
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PLOT DATE = 3/6/2018	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE III
 US ROUTE 14**
 SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	34
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW13



MATCH LINE STA. 128+50
SEE SHEET SW13

W1-6(O)-6030
STA. 130+20
(MOUNTED ABOVE
TYPE III BARRICADE)

W1-3L(O)-48
W13-1(O)-2424
25
MPH
STA. 132+00

ROAD
CONSTRUCTION
AHEAD
W20-1103(O)-48
M6-1R(O)-2115

ROAD
CONSTRUCTION
AHEAD
W20-1103(O)-48
M6-1R(O)-2115

WORK
ZONE
SPEED
LIMIT
30
PHOTO
ENFORCED
\$ 375 FINE
MINIMUM
R10-19AP-3618
R2-1106P-3618
STA. 138+42

ROAD
CONSTRUCTION
AHEAD
W20-1103(O)-48
M6-1R(O)-2115

RIGHT LANE
CLOSED
AHEAD
W20-5R(O)-48
STA. 140+20

8'-6"
W12-1102(O)-48

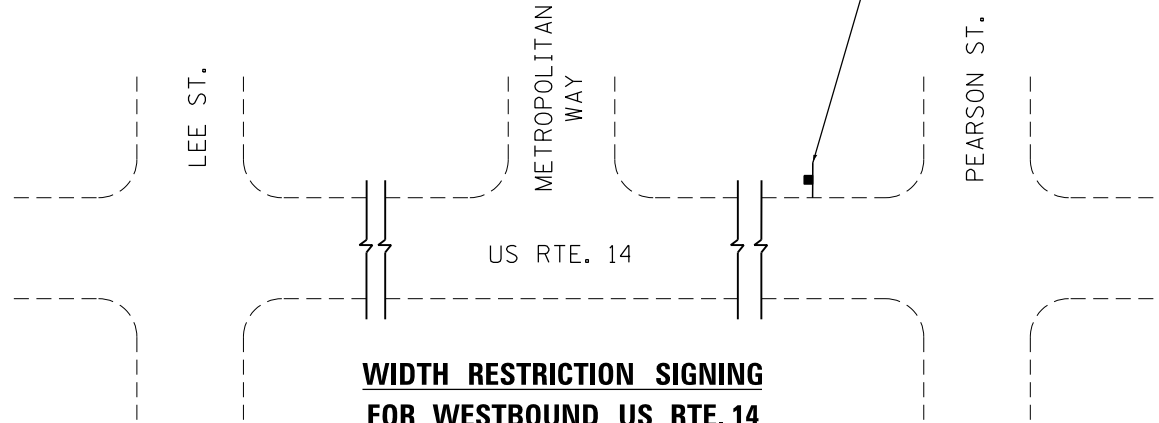
ROAD
CONSTRUCTION
AHEAD
W20-1103(O)-48
STA. 144+20

SPEED DISPLAY
TRAILER
+56 BEGIN TAPER

ARROW BOARD
STA. 134+10

END
WORK ZONE
SPEED LIMIT
G20-1103-6036
STA. 138+42

MAX WIDTH
8'-6"
1/2 MILE
AHEAD
W12-1103-4848



**WIDTH RESTRICTION SIGNING
FOR WESTBOUND US RTE. 14**

LEGEND

- DRUM OR TYPE II BARRICADE AT 20' C-C SPACING IN TAPERS AND 25' C-C SPACING IN TANGENTS
- TUBULAR MARKER AT 25' C-C SPACING IN CURVES AND 50' C-C SPACING IN TANGENTS
- TYPE III BARRICADE WITH 2 TYPE A FLASHERS
- SIGN ON PERMANENT OR PORTABLE SUPPORT
- DIRECTION INDICATOR BARRICADE AT 20' C-C SPACING
- DIRECTION OF TRAFFIC
- WORK ZONE

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USER NAME = TMiller	DESIGNED - AB	REVISED -
DRAWN - AB	REVISIONS -	
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PLOT DATE = 3/7/2018	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE III
US ROUTE 14**

SCALE: 1"=50' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	35
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW14

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. ALL CONTROL MEASURES NECESSARY MUST MEET THE MINIMUM REQUIREMENTS AS DESCRIBED IN THE LATEST EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. ADDITIONAL DETAILS AND BMPs ARE ALSO AVAILABLE AND CAN BE UTILIZED AS SHOWN IN THE ILLINOIS URBAN MANUAL, REVISED TO LATEST VERSION AS AMENDED. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE: (HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL).
2. ALL THE SOIL EROSION AND SEDIMENT CONTROL FEATURES MUST BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE MUST BE PHASED OR ENACTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES MUST CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND THE INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER, WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
4. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR MUST CLEAN UP, GRADE THE WORK AREA AS THE PROJECT PROGRESSES AND INSTALL EROSION PROTECTION TO ELIMINATE THE CONCENTRATION OF RUNOFF, OR MUST INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE EARTHEN MATERIAL TO THE SATISFACTION OF THE ENGINEER OR AUTHORIZED IDOT PERSONNEL.
6. STABILIZATION OF CUT OR FILL SLOPES WITH TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IS REQUIRED WHENEVER THE CUT OR FILL ACTIVITY REACHES 10-FT VERTICALLY OR THE FINISHED SLOPE EQUALS 30-FT, WHICHEVER IS MORE RESTRICTIVE. ONCE THE STABILIZATION MEASURES ARE INSTALLED, THE PLACEMENT OF FILL OR EXCAVATION ACTIVITIES ARE ALLOWED TO PROCEED.
7. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES TO BE RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS THROUGHOUT THE PROJECT.
8. THE CONTRACTOR'S REPRESENTATIVE HAS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES AND HAS TAKEN AN ILLINOIS DEPARTMENT OF TRANSPORTATION OR APPROVED EQUAL EROSION AND SEDIMENT CONTROL COURSE. THIS PERSON SHALL HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTION CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN PROVIDED BY THE ENGINEER. THIS INDIVIDUAL AND THE ENGINEER MUST MAKE INSPECTIONS A MINIMUM OF ONCE EVERY SEVEN DAYS OF THE FOLLOWING:
 - A. DISTURBED AREAS OF THE PROJECT SITE THAT HAVE NOT BEEN FULLY STABILIZED.
 - B. STRUCTURAL CONTROL MEASURES (SUCH AS PERIMETER EROSION BARRIER, ETC.)
 - C. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE PROJECT SITE.
 - D. AN ADDITIONAL INSPECTION OF THE ITEMS LISTED ABOVE MUST BE MADE 24-HOURS AFTER A RAINFALL OR EQUIVALENT SNOWFALL EVENT GREATER THAN 0.5-INCH. DURING WINTER MONTHS, ALL MEASURES MUST BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
9. ALL THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON, AS WELL AS OVER THE WINTER SHUTDOWN PERIOD AND OTHER DAYS WHEN THE PROJECT IS CLOSED DOWN FOR A LONGER DURATION. ANY CONTROL MEASURES FILLED MORE THAN 75% MUST BE CLEANED AND RESET AND THESE SPOILS REMOVED TO AN APPROVED SITE.
10. SALVAGED TOPSOIL SHALL BE PLACED ON WELL DRAINED LAND AWAY FROM INTERMITTENT AND ACTIVE DRAINAGE PATHS WITH THE APPROPRIATE RUNOFF CONTROL AND SEDIMENT CONTROL MEASURES INSTALLED AROUND THE STORAGE SITE. IMMEDIATELY AFTER THE FINAL SHAPING OF THE STOCKPILE, THE TOPSOIL WILL BE STABILIZED IN ACCORDANCE WITH THE METHOD APPROVED BY IDOT. THE CONTRACTOR WILL PROVIDE ADEQUATE QUANTITY OF SILT FENCE TO CONTROL THE PERIMETER OF THE STOCKPILE.
11. EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR, THE COST OF THE CONTROLS WILL BE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER, THE DEPARTMENT WILL ASSUME THE COST OF INSTALLING AND MAINTAINING THE CONTROLS.

12. IF AND/OR WHEN THE CONTRACTOR REQUESTS CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH 25 FEET AWAY FROM THE SHOULDER OF THE ROAD PROVIDED THE FOLLOWING CONDITIONS ARE MET:
 - A. ALL AREAS BEING STABILIZED ARE 1:3 SLOPES OR FLATTER
 - B. THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION WITH MULCH METHOD 2.
 - C. ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
13. TOPSOIL PLACEMENT: TOPSOIL WILL BE PLACED ON FINAL SLOPES WHICH WILL NOT BE DISTURBED BY FUTURE CONSTRUCTION. TOPSOIL WILL NOT BE PLACED ON SURFACES WHICH WILL BE PAVED IN THE FUTURE NOR ON TEMPORARY STEEP SLOPES.
14. IN AREAS WHERE A PERMANENT VEGETATIVE COVER IS PRACTICABLE AND INCLUDED IN THE CONTRACT DOCUMENTS, A SPECIAL EFFORT SHOULD BE MADE TO ESTABLISH A COVER AS SOON AS A DISTURBED AREA IS BROUGHT TO FINAL GRADE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
15. THE CONTRACTOR'S REPRESENTATIVE AND THE ENGINEER MUST KEEP A WRITTEN REPORT SUMMARIZING THE REQUIRED INSPECTIONS. THE REPORTS MUST BE KEPT AT THE SITE DURING CONSTRUCTION. THE REPORT MUST ALSO BE RETAINED FOR THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED.
16. ANY SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING CONTROL MEASURE PRIOR TO RELEASE FROM THE PROJECT SITE.
17. SEEDING USAGE

CLASS 3:
USED ON FINAL DISTURBED CONSTRUCTION AREAS INDICATED ON THE PLANS.

TEMPORARY EROSION CONTROL SEEDING:
USED IN AREAS REQUIRING SHORT TERM TEMPORARY SEEDING DURING CONSTRUCTION.
18. THE CONTRACTOR MUST COOPERATE WITH THE ENGINEER AND HIS/HER REPRESENTATIVE WHO WILL MAKE SITE VISITS TO REVIEW THE COMPLIANCE OF THE PLANS IN THE FIELD AND AUDIT IF NECESSARY. THE CONTRACTOR MUST PREPARE THE LOGS AND RECORDS WHEN REQUIRED AND SUBMIT TO IDOT AND/OR APPROPRIATE AGENCIES.
19. THE INSTALLATION, MAINTENANCE, REMOVAL AND RESTORATION OF THE AREA DISTURBED BY THE PLACEMENT OF THE PERIMETER EROSION BARRIER ARE INCLUDED IN THE CONTRACT UNIT PRICE FOR PERIMETER EROSION BARRIER. AFTER ALL PERIMETER EROSION BARRIER IS REMOVED, THE AREAS DAMAGED BY THE PERIMETER EROSION CONTROL BARRIER MUST BE RESTORED TO THEIR ORIGINAL CONDITION.
20. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
21. STABILIZATION MEASURES SHALL BE INITIATED IMMEDIATELY WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN ONE (1) DAY AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF FOURTEEN (14) OR MORE CALENDAR DAYS.
22. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER, THE NORTH COOK SOIL & WATER CONSERVATION DISTRICT AND/OR THE US ARMY CORPS OF ENGINEERS.

SOIL EROSION AND SEDIMENT CONTROL STRATEGY:

1. INSTALL TRAFFIC CONTROL DEVICES.
2. ERECT PERIMETER EROSION BARRIERS AND TEMPORARY FENCES AS SHOWN ON THE PLANS.
3. INSTALL INLET FILTERS AS SHOWN ON THE PLANS.
4. ESTABLISH STABILIZED CONSTRUCTION ENTRANCES.
5. CONSTRUCT PROJECT IMPROVEMENTS AS SHOWN ON THE PLANS.
6. REMOVE EXISTING PAVEMENT AND BARRIER WALLS AS SHOWN ON THE PLANS.
7. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES FOR THE DURATION OF CONSTRUCTION.
8. TEMPORARY STABILIZATION SHOULD BE COMPLETED BEFORE WORK BEGINS.
9. STABILIZE DISTURBED AREAS WITH TEMPORARY EROSION CONTROL MEASURES. USE THE PERMANENT SEEDING WITH EROSION CONTROL BLANKET AS SHOWN ON THE PLANS FOR PERMANENT STABILIZATION.
10. WHEN THE PERMANENT STABILIZATION IS ESTABLISHED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

HIGHWAY STANDARD

STD. NO.	TITLE
280001	TEMPORARY EROSION CONTROL SYSTEMS

SOIL PROTECTION SCHEDULE:

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
PERMANENT SEEDING						→					→	
DORMANT SEEDING	→		→							→		→
TEMPORARY SEEDING										→		
EROSION BLANKET / HYDROMULCH											→	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

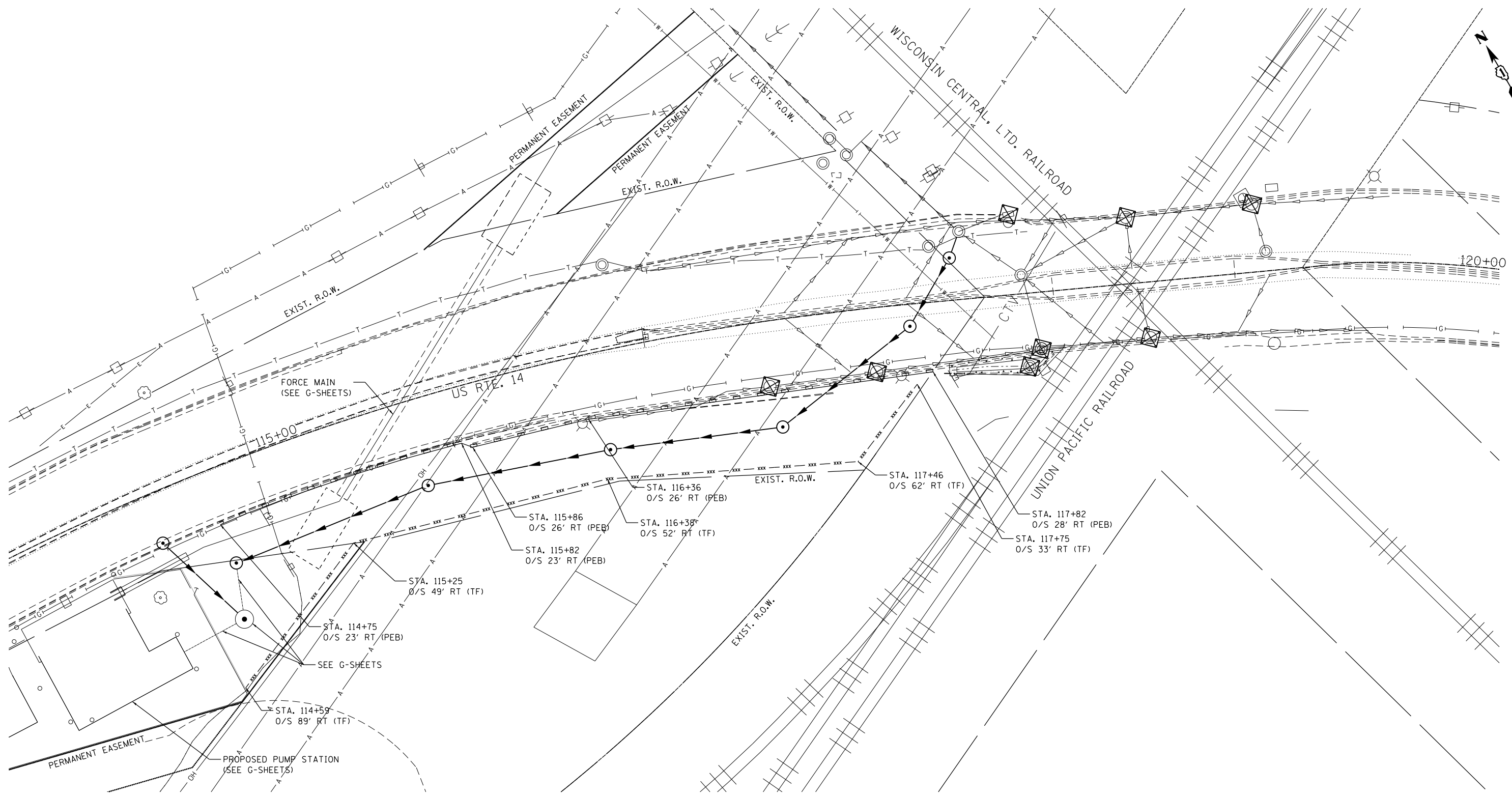
**EROSION AND SEDIMENT CONTROL NOTES
US ROUTE 14**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C48	

SW15

FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DURN\3016c-W0 3 Contract No. 60749\CADD\CADD Sheets\Civil\060C48-shr-ESC Plan.dgn



LEGEND

- PERIMETER EROSION BARRIER (PEB)
- TEMPORARY FENCE (TF)
- ◆ INLET FILTERS

SW16



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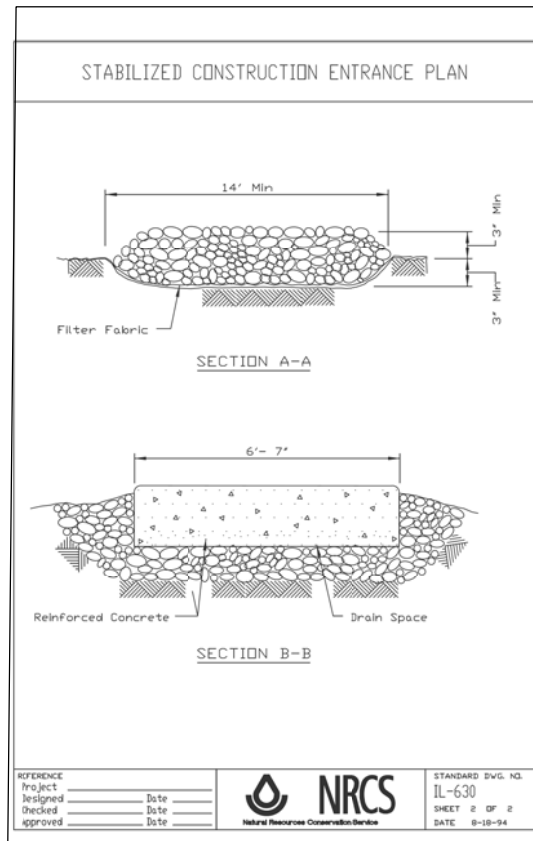
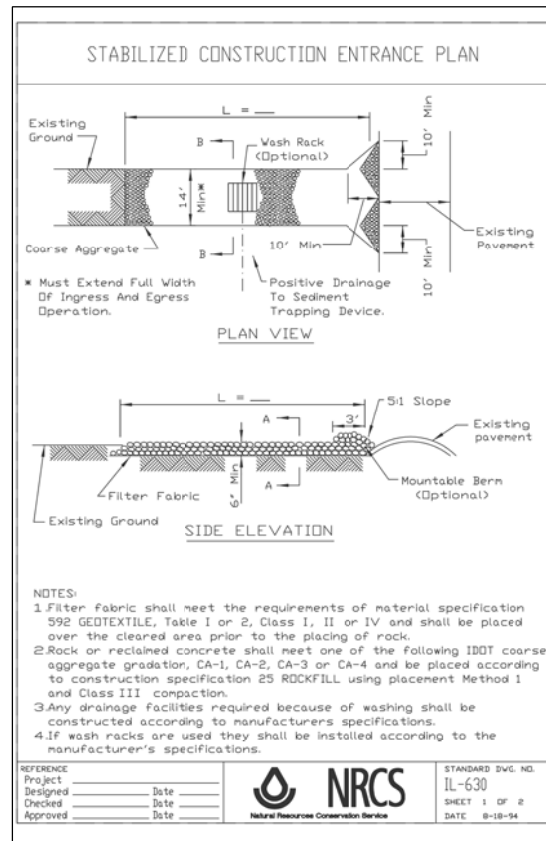
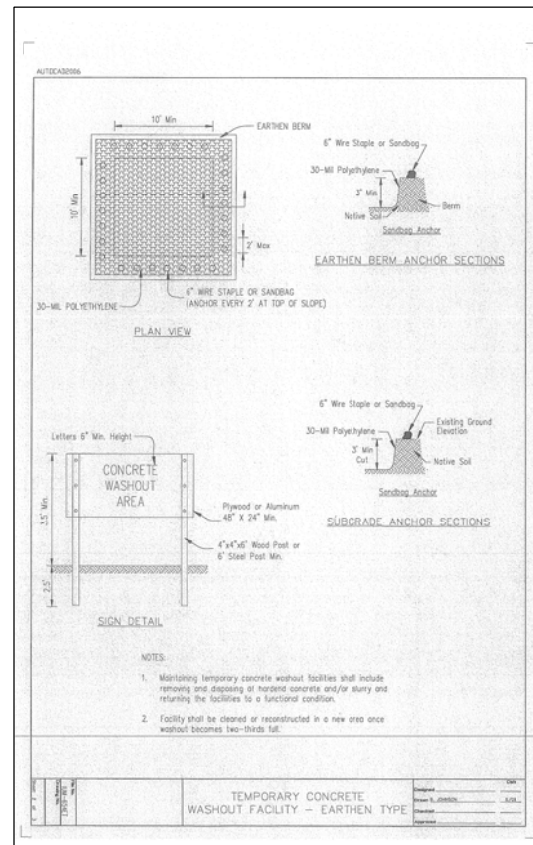
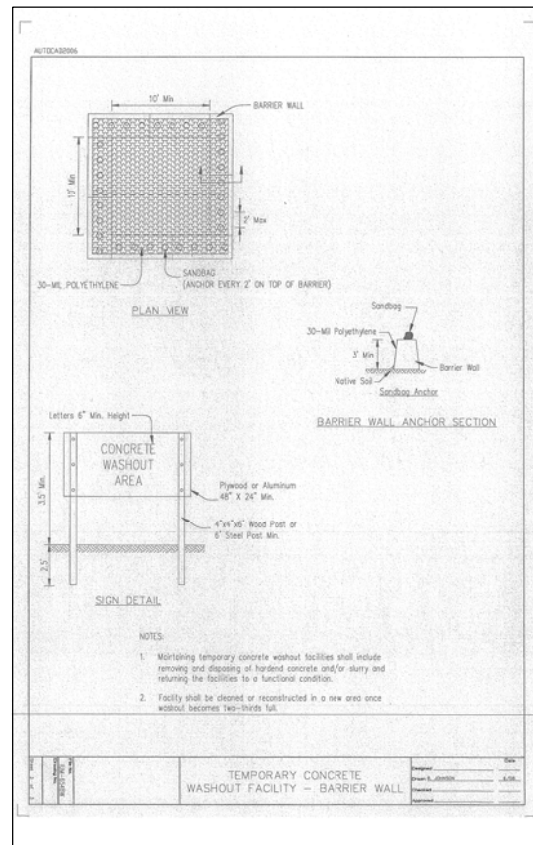
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
US ROUTE 14**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	37
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

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 PLOT DATE = 8/29/2017
 DATE - 08-30-17

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 CHECKED - TGM
 DATE - 08-30-17

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL DETAILS
 US ROUTE 14**

SCALE: SHEET OF SHEETS STA. TO STA.

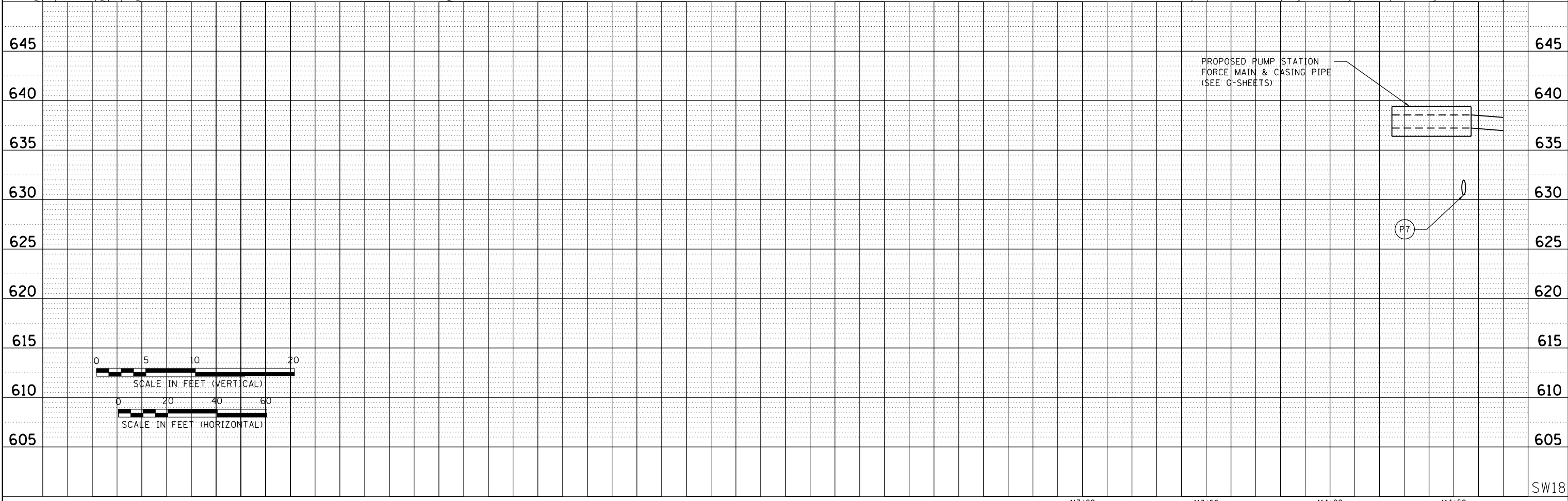
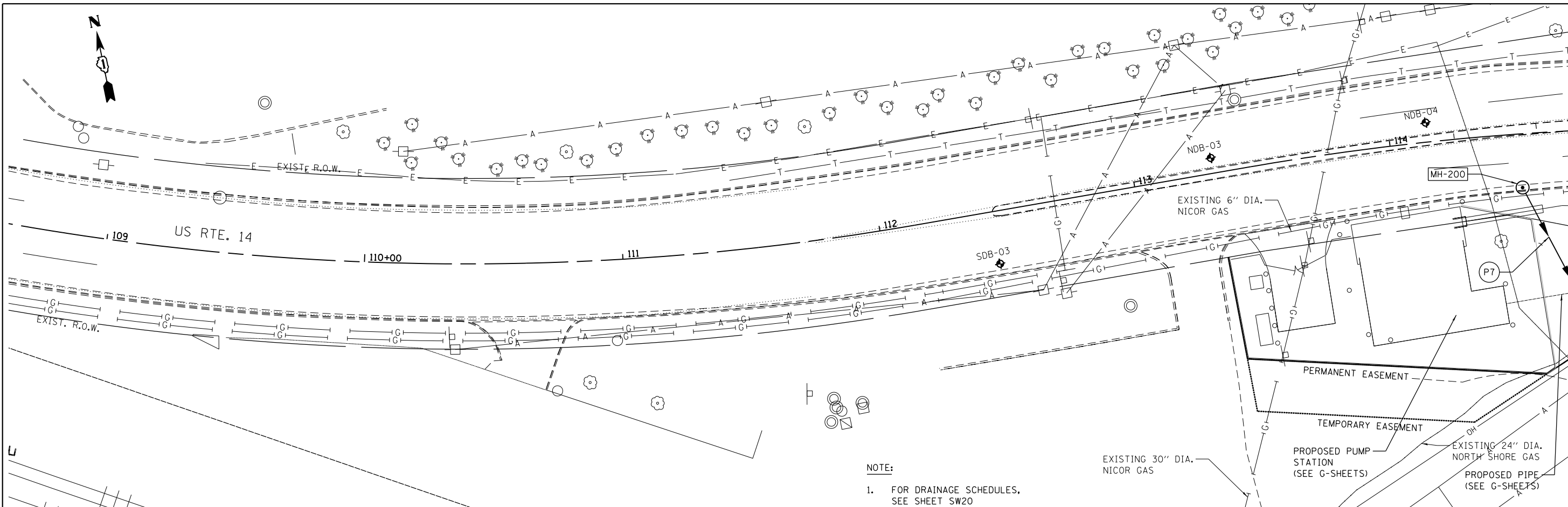
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	38
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW17

PLAN	SURVEYED	DATE
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	CHECKED	
	ALIGNED	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHFD	
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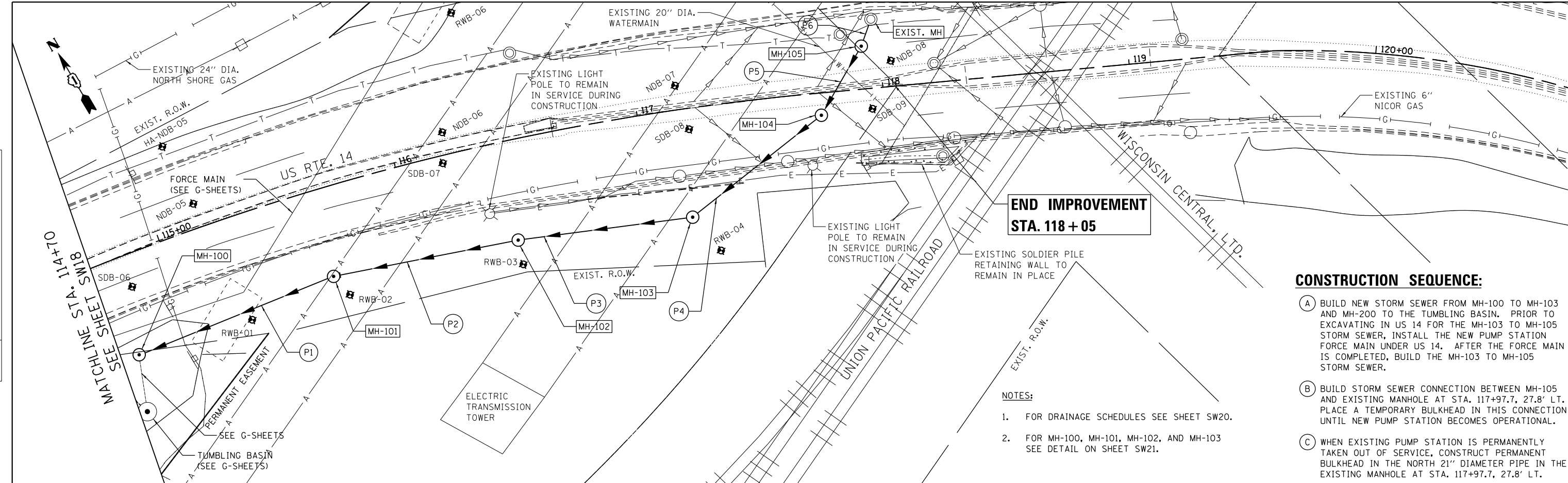
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	PLOT DATE = 2/26/2018	DATE - 08-30-17	REVISED -						ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE	
	NOT AT ALL	
	NO.	



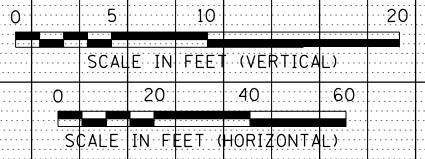
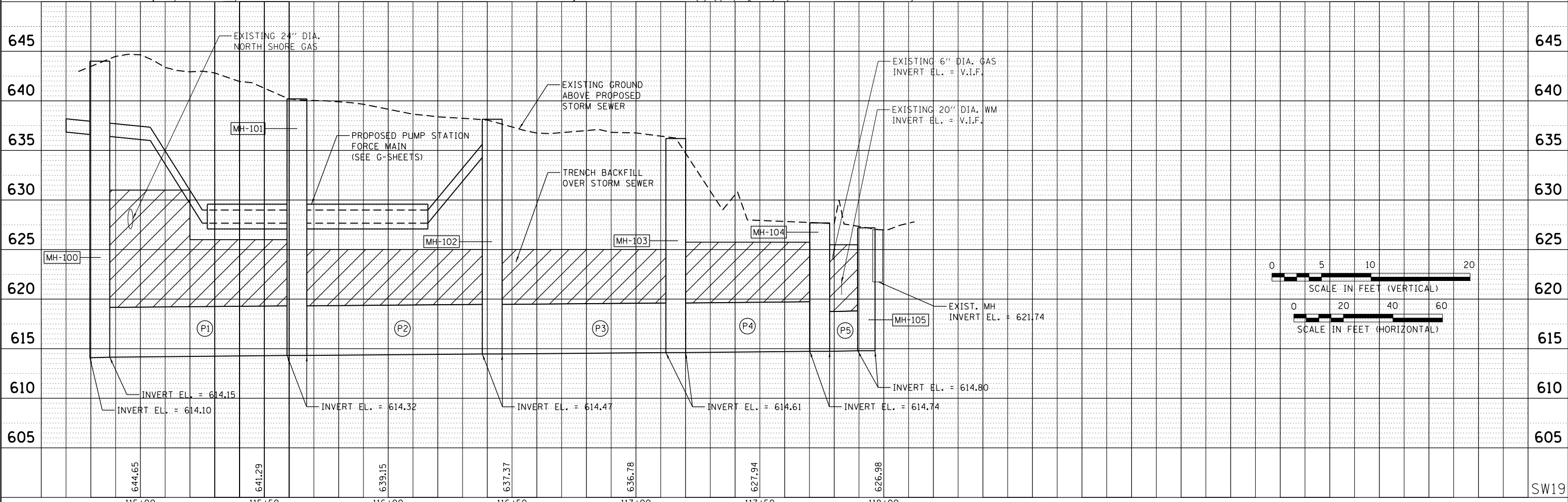
**END IMPROVEMENT
STA. 118+05**

CONSTRUCTION SEQUENCE:

- (A) BUILD NEW STORM SEWER FROM MH-100 TO MH-103 AND MH-200 TO THE TUMBLING BASIN. PRIOR TO EXCAVATING IN US 14 FOR THE MH-103 TO MH-105 STORM SEWER, INSTALL THE NEW PUMP STATION FORCE MAIN UNDER US 14. AFTER THE FORCE MAIN IS COMPLETED, BUILD THE MH-103 TO MH-105 STORM SEWER.
- (B) BUILD STORM SEWER CONNECTION BETWEEN MH-105 AND EXISTING MANHOLE AT STA. 117+97.7, 27.8' LT. PLACE A TEMPORARY BULKHEAD IN THIS CONNECTION UNTIL NEW PUMP STATION BECOMES OPERATIONAL.
- (C) WHEN EXISTING PUMP STATION IS PERMANENTLY TAKEN OUT OF SERVICE, CONSTRUCT PERMANENT BULKHEAD IN THE NORTH 21" DIAMETER PIPE IN THE EXISTING MANHOLE AT STA. 117+97.7, 27.8' LT.

NOTES:

1. FOR DRAINAGE SCHEDULES SEE SHEET SW20.
2. FOR MH-100, MH-101, MH-102, AND MH-103 SEE DETAIL ON SHEET SW21.



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PLOT DATE = 2/26/2018	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PLAN AND PROFILE - II
US ROUTE 14**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	40
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

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SW19

LOADING

1. COOPER E-80 (RAILROAD) (ALLOWANCE OF 50% FOR IMPACT)
2. HL-93 (VEHICLE)

DESIGN SPECIFICATIONS

1. 2015 AREMA MANUAL FOR RAILWAY ENGINEERING
2. 2014 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION WITH 2016 INTERIMS

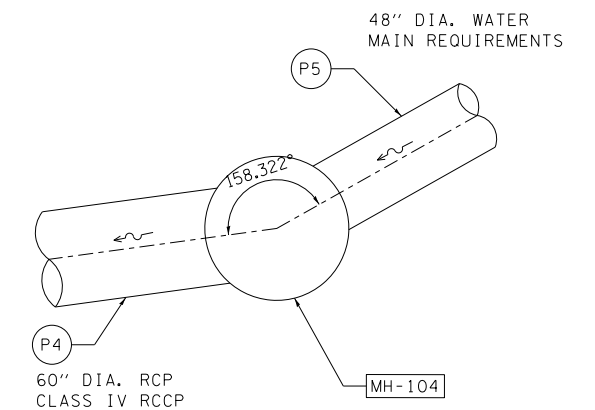
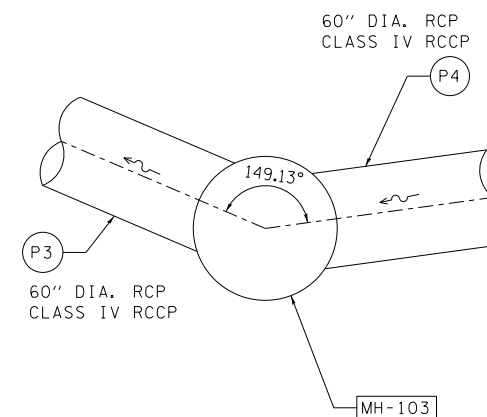
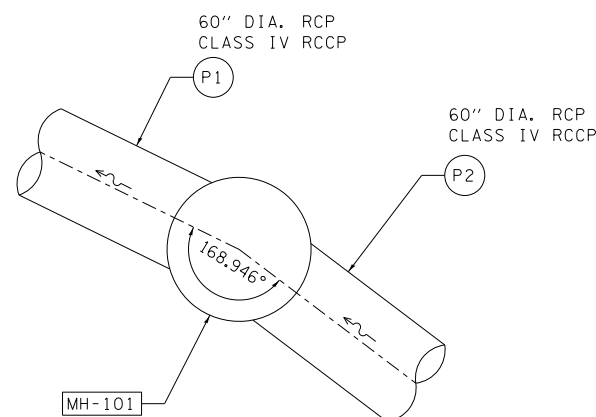
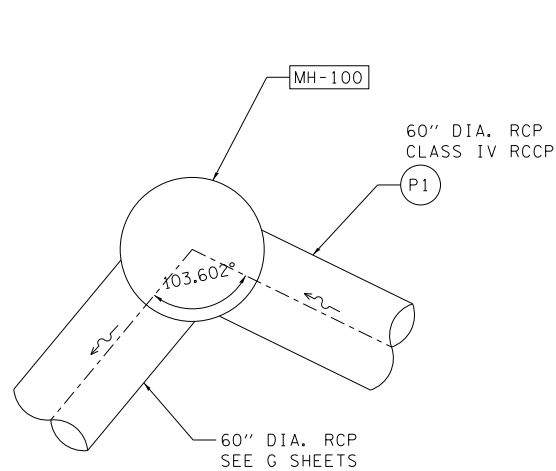
NOTE:
SEE EXHIBIT H, FIGURE 1-5-11 IN AREMA MANUAL FOR RAILWAY ENGINEERING FOR GENERAL SHORING REQUIREMENTS FOR INSTALLATION OF THE MANHOLES AND PIPES.

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	DESCRIPTION	STATION	OFFSET	INVERT EL.	RIM EL.
MH-100	MANHOLES TYPE A 8' DIA. W/ TYPE 1 FRAME CL (SPECIAL)	114+75.45	39.69' RT	614.15 (E) 614.10 (SW)	644.00
MH-101	MANHOLES TYPE A 8' DIA. W/ TYPE 1 FRAME CL (SPECIAL)	115+63.35	35.65' RT	614.32	640.20
MH-102	MANHOLES TYPE A 8' DIA. W/ TYPE 1 FRAME CL (SPECIAL)	116+42.18	40.29' RT	614.47	638.15
MH-103	MANHOLES TYPE A 8' DIA. W/ TYPE 1 FRAME CL (SPECIAL)	117+16.26	43.88' RT	614.61	636.20
MH-104	MANHOLES TYPE A 8' DIA. W/ TYPE 1 FRAME CL	117+74.20	9' RT	614.74	627.69
MH-105	MANHOLES TYPE A 7' DIA. W/ TYPE 1 FRAME CL	117+92.85	17.34' LT	614.80 (SW) 621.69 (NE)	627.19
EXIST. MH		117+97.73	27.84' LT	621.74	627.01
MH-200	MANHOLES TYPE A 4' DIA. W/ TYPE 1 FRAME CL	114+50	20.76' RT	630.57	639.12

STORM SEWER SCHEDULE

PIPE NO.	FROM STR.	TO STR.	LENGTH (FT)	DIA. (IN)	PIPE TYPE	SLOPE	TB (CY)	UPSTREAM INVERT	DOWNSTREAM INVERT
P-1	MH-101	MH-100	83	60	C-A T5	0.20%	279	614.32	614.15
P-2	MH-102	MH-101	74	60	C-A T5	0.20%	161	614.47	614.32
P-3	MH-103	MH-102	69	60	C-A T4	0.20%	148	614.61	614.47
P-4	MH-104	MH-103	64	60	C-A T4	0.20%	148	614.74	614.61
P-5	MH-105	MH-104	30	48	WATER MAIN REQUIREMENTS	0.20%	66	614.80	614.74
P-6	EXIST. MH	MH-105	10	24	D. I. PIPE	0.50%	3	621.74	621.69
P-7	MH-200	TUMBLING BASIN	42	18	C-A T2	1.00%	52	630.57	630.15
							857		



PIPE ANGLE AT MANHOLE DETAILS

SW20

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PLOT DATE = 8/29/2017	DATE - 08-30-17	REVISED -

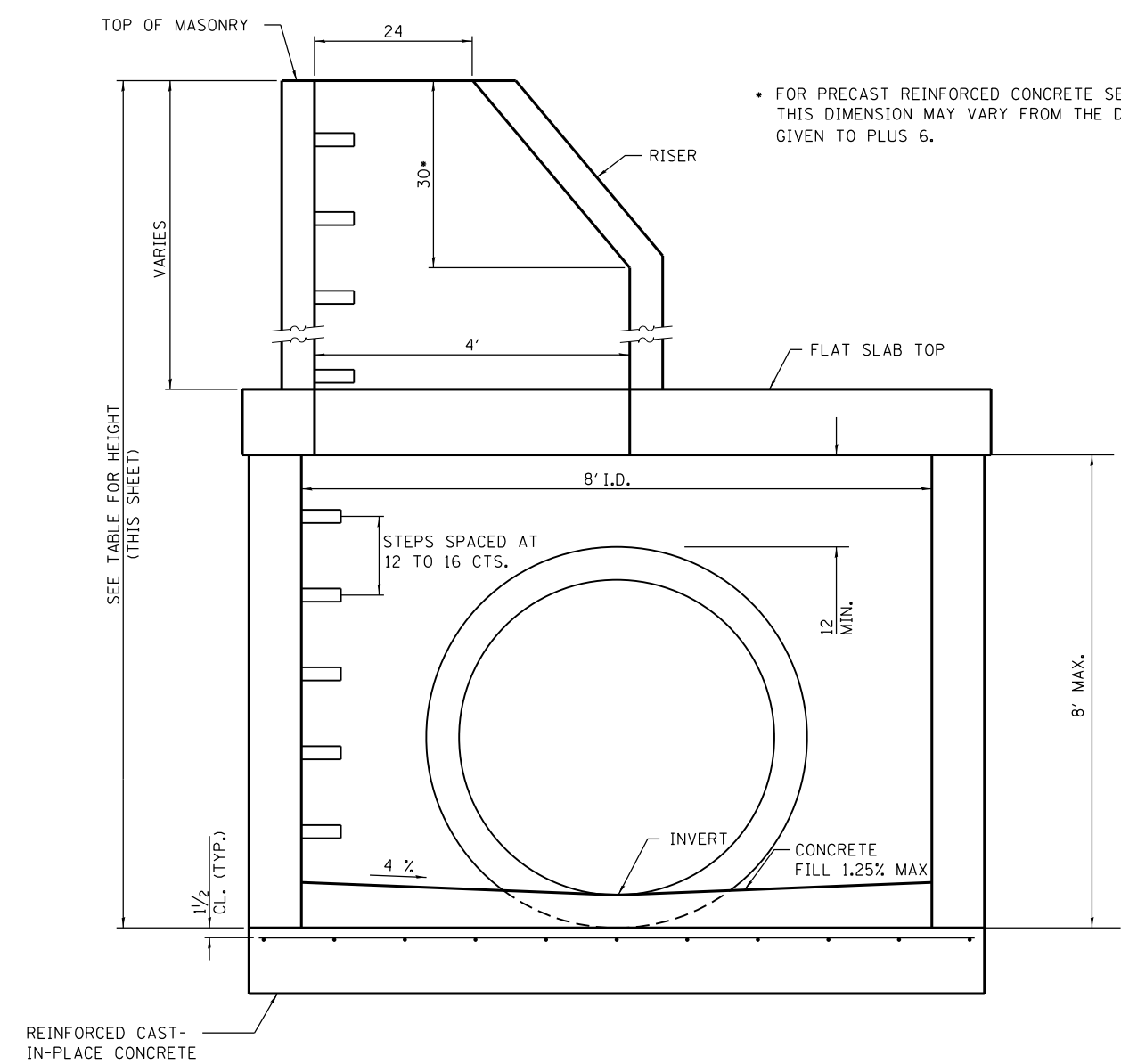
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SCHEDULES AND MANHOLE DETAILS
US ROUTE 14**

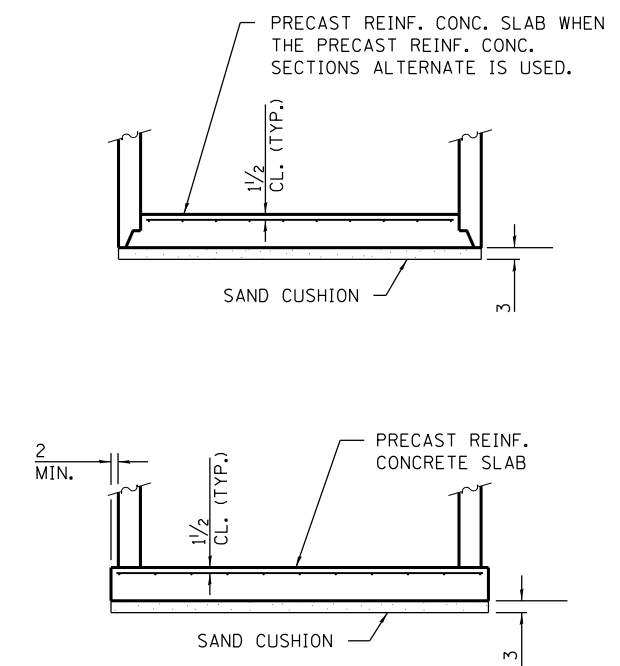
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60C48			ILLINOIS FED. AID PROJECT	

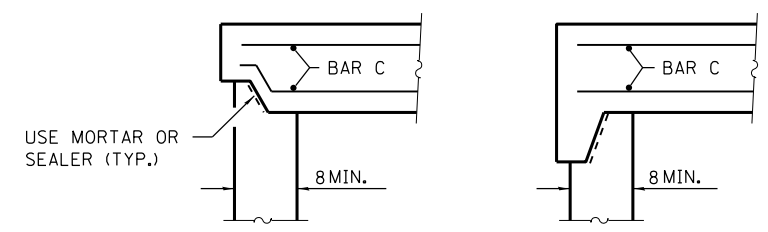
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ELEVATION
(WITH FLAT SLAB TOP AND RISER)



ALTERNATE BOTTOM SLABS



ALTERNATE JOINT CONFIGURATIONS

STRUCTURE NUMBER	HEIGHT** (FT)	WALL THICKNESS (IN)
MH-100	29.6	TO BE DESIGNED BY CONTRACTOR
MH-101	25.6	TO BE DESIGNED BY CONTRACTOR
MH-102	23.4	TO BE DESIGNED BY CONTRACTOR
MH-103	21.3	TO BE DESIGNED BY CONTRACTOR

** HEIGHT OF STRUCTURE BASED ON THE USE OF TYPE 1 FRAME AND LID AND PIPE WALL THICKNESS = 6".

NOTE:
CONTRACTOR TO PROVIDE SIGNED AND SEALED STRUCTURAL CALCULATIONS DETAILING BOTTOM, TOP, AND WALL THICKNESSES FOR ALL STRUCTURES SHOWN IN THE TABLE ABOVE.

GENERAL NOTES

JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

BOTTOM SLABS SHALL BE REINFORCED WITH A MINIMUM OF 0.34 SQ. IN./FT. IN BOTH DIRECTIONS, WITH A MAXIMUM SPACING OF 11.

BOTTOM SLABS MAY BE CONNECTED TO THE RISER AS DETERMINED BY THE FABRICATOR; HOWEVER, ONLY A SINGLE ROW OF REINFORCEMENT AROUND THE PERIMETER MAY BE UTILIZED.

SEE HIGHWAY STANDARD 602701 - MANHOLE STEPS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MANHOLE (SPECIAL) DETAILS
US ROUTE 14**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	42
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

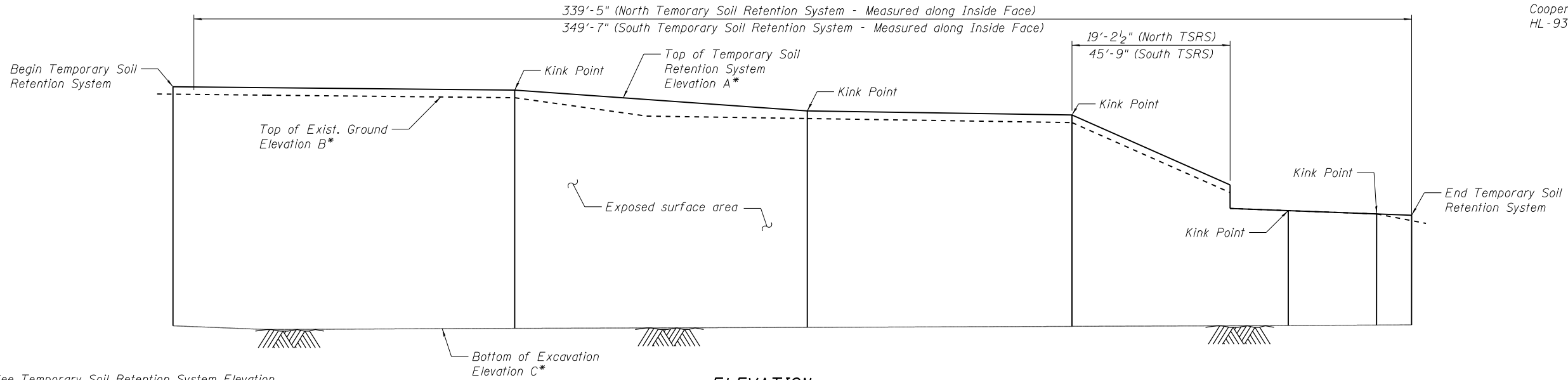
SW21

TEMPORARY SOIL RETENTION SYSTEM ELEVATION TABLE

North Temporary Soil Retention System					South Temporary Soil Retention System				
Location	Station	Elevation A	Elevation B	Elevation C	Location	Station	Elevation A	Elevation B	Elevation C
Begin Soil Retention	114+70.04	644.00	643.00	612.54	Begin Soil Retention	114+72.36	645.00	644.00	612.54
Kink Point	115+64.00	640.24	639.24	612.76	Kink Point	115+62.22	644.40	643.40	612.76
Kink Point	116+43.30	636.80	635.80	612.91	Kink Point	116+42.48	642.14	641.14	612.91
Kink Point	117+15.78	634.60	633.60	613.05	Kink Point	117+16.71	641.40	640.40	613.05
Kink Point	117+70.02	627.69	627.69	613.24	Kink Point	117+78.90	627.69	627.69	613.24
Kink Point	117+89.17	627.19	627.19	613.24	Kink Point	117+99.20	627.19	627.19	613.24
End Soil Retention	117+90.94	627.01	627.01	620.32	End Soil Retention	118+02.50	627.01	627.01	620.32

DESIGN SPECIFICATIONS
 2015 AREMA Manual for Railway Engineering
 2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2016 Interims

DESIGN LOADING
 Cooper E-80 (Railroad) (Allowance for 50% Impact)
 HL-93 (Vehicle)

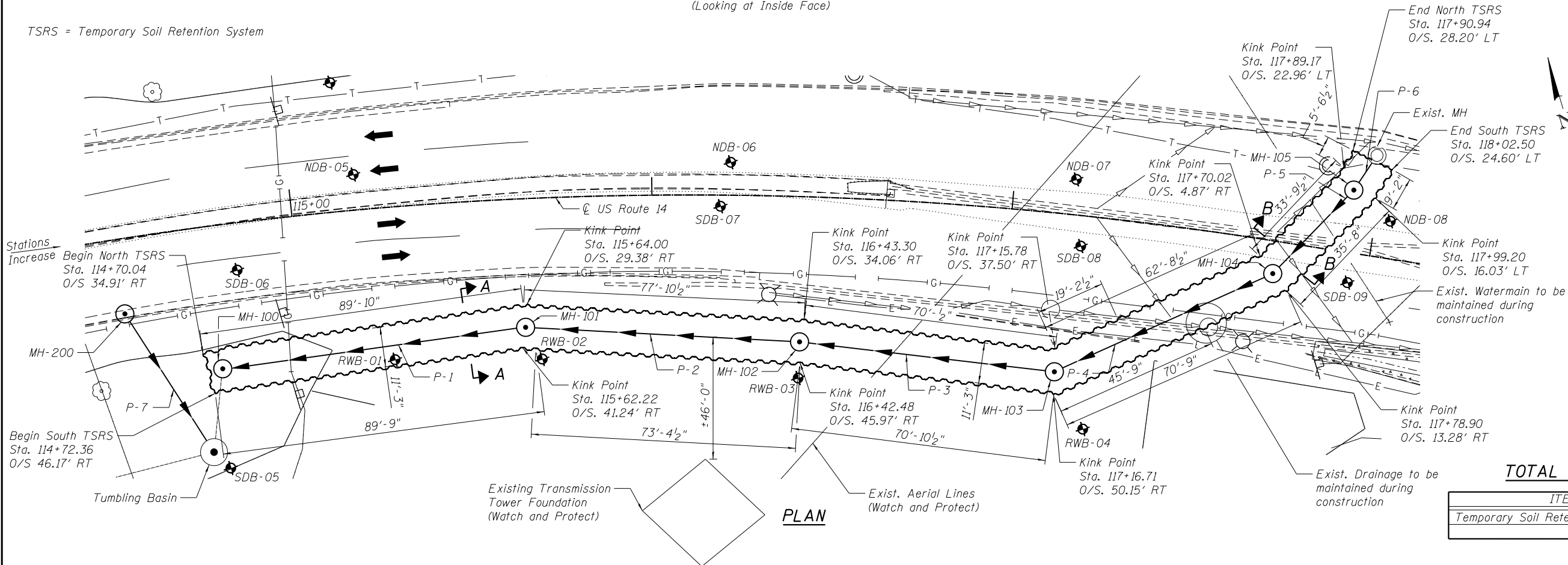


ELEVATION
(Looking at Inside Face)

* See Temporary Soil Retention System Elevation Table on this sheet for information

TSRS = Temporary Soil Retention System

FILE NAME = Q:\Engineering\Live\Projects\13016 IDOT DURN\3016c-WO 3 Contract No. 60749\CAADD\CAOD Sheets\Structural\160C48-Soil Retention Plan.dgn



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System	Sq Ft	17,436

SW21A



USER NAME = Tmiller
 CHECKED - JMT
 DRAWN - SAT
 CHECKED - SPS
 PLOT SCALE = 32.0000' / in.
 PLOT DATE = 1/28/2018

DESIGNED - SAT
 CHECKED - JMT
 DRAWN - SAT
 CHECKED - SPS

REVISED
 REVISED
 REVISED
 REVISED

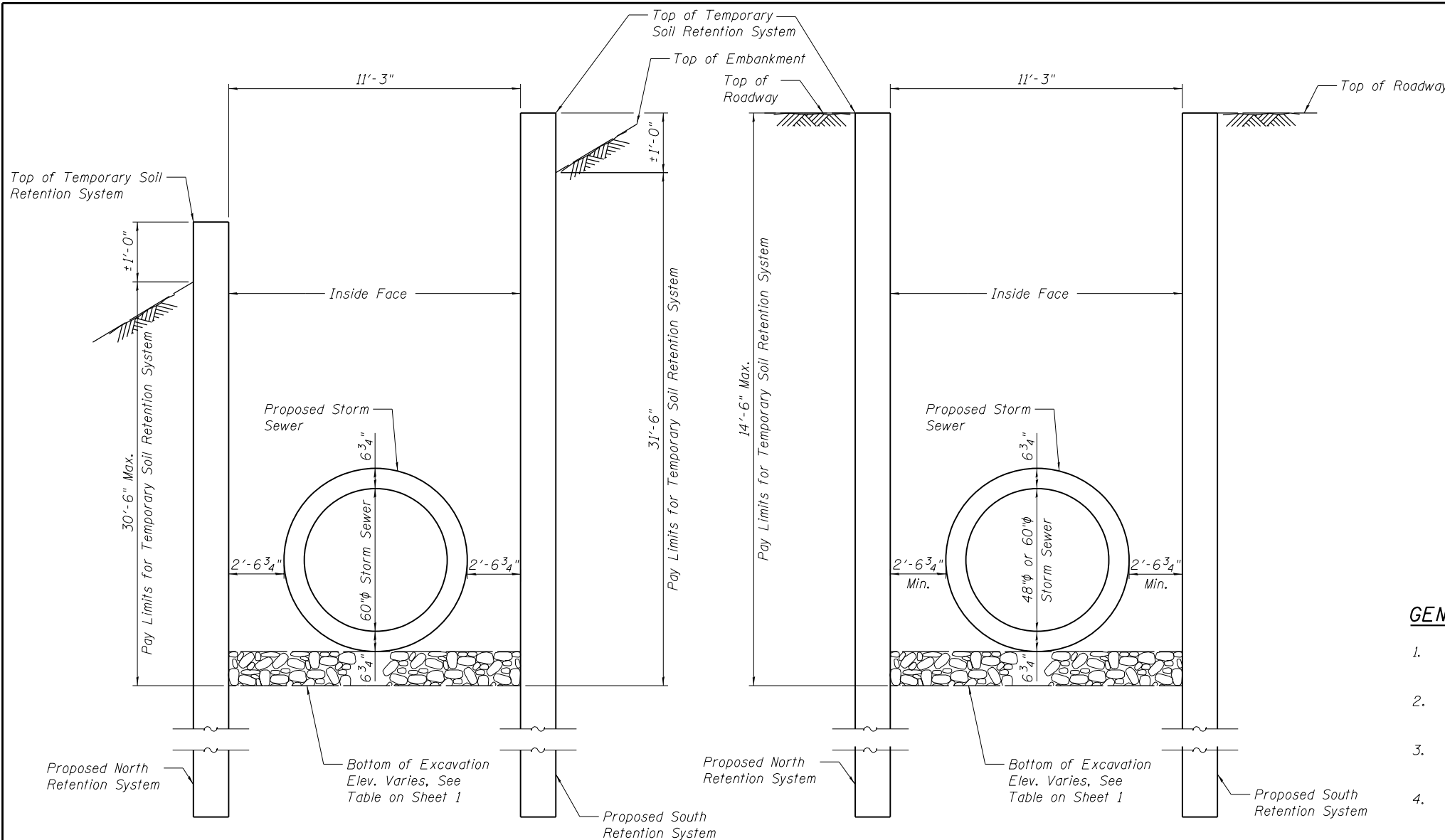
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SOIL RETENTION SYSTEM (PLAN AND ELEVATION)
 US ROUTE 14**

SHEET NO. 1 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	42A
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\Engineering\LiveProjects\13016 IDOT DUR\13016-WO 3 Contract No. 60749\CA00\CA00 Sheets Structural\1600C48-Soil Retention Details.dgn



SECTION A-A
(Looking East)

SECTION B-B
(Looking East)

CONSTRUCTION SEQUENCE

1. Locate all underground and overhead utilities and structures. Relocate and/or protect utilities as required by the contract drawings and specifications.
2. Install Temporary Soil Retention System to the tip elevation as designed by the Contractor.
3. Provide necessary bracing to the soil retention system as designed by the Contractor and reviewed by the Engineer.
4. Excavate to the bottom of the excavation elevation.
5. Construct bedding for the storm sewer.
6. Install proposed 60" ϕ and 48" ϕ storm sewer as per plans and specifications.
7. Backfill the excavated area with trench backfill as per plans and specifications.

GENERAL NOTES:

1. Construction of the Temporary Soil Retention System shall be as per Standard Specifications for Temporary Soil Retention System.
2. Stations and Offsets for the Temporary Soil Retention System are given from \odot US Rte. 14 to the inside face of Soil Retention System.
3. Temporary Soil Retention System length is measured along the inside face of the retention system.
4. The Contractor shall field verify location of exist. utilities and shall take all precautions to protect exist. utilities during the construction of the retention system. Any damage to the exist. utilities shall be the responsibility of the Contractor.
5. The Contractor shall provide access, barricading and fall protection in accordance with applicable OSHA guidelines as required during construction and as deemed necessary by the Engineer. The Contractor shall ensure that the retention system is properly installed before entering the excavation area.
6. The retention system shall be installed in a manner that ensures soils are fully supported during all phases of work and that no voids exist between the retention system and existing soils.
7. Groundwater may be present in the excavation areas. The Contractor shall consider this information when selecting equipment and construction methods. The Contractor will not be compensated for issues related to the groundwater.
8. Groundwater level shall be maintained at or below the excavation elevation at all times. If a dewatering system is necessary, and as required by the Engineer, the Contractor is responsible for developing, installing, maintaining and monitoring the dewatering system and verifying that the groundwater level behind the soil retention has been lowered to the excavation elevation.
9. Any storage of construction equipment and/or material behind the Temporary Soil Retention System is not allowed.
10. Contractor shall not support any construction equipment and/or material from any elements of Temporary Soil Retention System.
11. Contractor shall develop details for the opening in the retention system for the proposed 60" ϕ storm sewer pipe. The Contractor shall submit plans and calculations, prepared and sealed by Illinois Licensed Structural Engineer, for review and approval prior to commencing any work and ordering material.
12. For Boring Logs see Sheets SW23 thru SW31.

SW21B



USER NAME = sapont	DESIGNED - SAT	REVISED
	CHECKED - JMT	REVISED
PLOT SCALE = 32.0031' / in.	DRAWN - SAT	REVISED
PLOT DATE = 1/26/2018	CHECKED - SPS	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

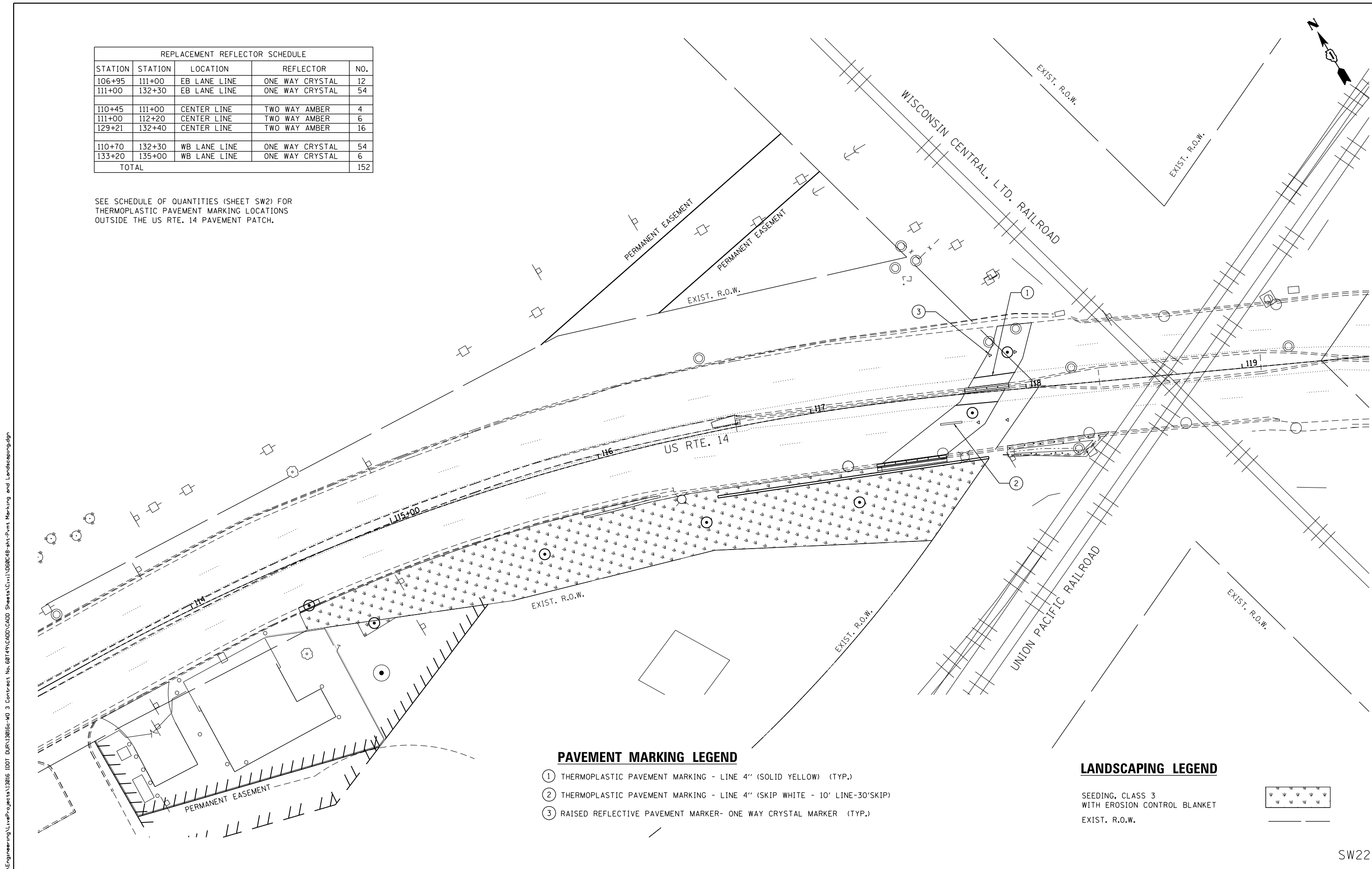
**TEMPORARY SOIL RETENTION SYSTEM (DETAILS)
US ROUTE 14**

SHEET NO. 2 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	42B
CONTRACT NO. 60C48			ILLINOIS FED. AID PROJECT	

REPLACEMENT REFLECTOR SCHEDULE				
STATION	STATION	LOCATION	REFLECTOR	NO.
106+95	111+00	EB LANE LINE	ONE WAY CRYSTAL	12
111+00	132+30	EB LANE LINE	ONE WAY CRYSTAL	54
110+45	111+00	CENTER LINE	TWO WAY AMBER	4
111+00	112+20	CENTER LINE	TWO WAY AMBER	6
129+21	132+40	CENTER LINE	TWO WAY AMBER	16
110+70	132+30	WB LANE LINE	ONE WAY CRYSTAL	54
133+20	135+00	WB LANE LINE	ONE WAY CRYSTAL	6
TOTAL				152

SEE SCHEDULE OF QUANTITIES (SHEET SW2) FOR THERMOPLASTIC PAVEMENT MARKING LOCATIONS OUTSIDE THE US RTE. 14 PAVEMENT PATCH.

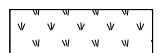


PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW) (TYP.)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SKIP WHITE - 10' LINE-30'SKIP)
- ③ RAISED REFLECTIVE PAVEMENT MARKER- ONE WAY CRYSTAL MARKER (TYP.)

LANDSCAPING LEGEND

SEEDING, CLASS 3 WITH EROSION CONTROL BLANKET EXIST. R.O.W.



FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DURN\3016c-W0 3 Contract No. 60C48\48-shr-Pvmt Marking and Landscaping.dgn



USER NAME = TMiller	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/7/2018	CHECKED -	REVISED -
	DATE - 08-30-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND LANDSCAPING PLAN			
US ROUTE 14			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	43
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW22

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BORING LOG NDB-07
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 628.89 ft
 North: 1960148.20 ft
 East: 1102403.14 ft
 Station: 117+16.892
 Offset: LT 9.824

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
628.3	7-inch thick, ASPHALT --PAVEMENT--												
627.5	10-inch thick, CONCRETE --PAVEMENT--												
626.4	Loose, white SANDY GRAVEL --BASE COURSE-- --Moist--	1	7 5 4	NP	12								
	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	2	4 8 6	2.95 S	13								
		3	2 3 3	2.54 B	11								
620.9	Loose, gray SILT --Wet--	4	4 5 3	NP	15								
619.2	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel --Sand lenses--	5	2 2 4	1.31 B	14								
	--Sandy gravel lenses--	6	6 10 13	7.22 B	13								
	--Silty loam lenses--	7	5 14 27	6.48 S	15								
		8	5 12 12	10.25 S	12								
		9	10 15 12	10.25 S	12								
	--Sand lenses--	10	7 20 21	10.25 S	12								
603.9	Boring terminated at 25.00 ft	25											

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-16-2015	Complete Drilling	06-16-2015	While Drilling	▽	8.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	CME 55	At Completion of Drilling	▼	DRY	
Driller	R&J	Logger	A. Tomaras	Checked by	B. Wilson	Time After Drilling	NA
Drilling Method	3.25 IDA HSA; Backfilled upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG NDB-08
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 627.22 ft
 North: 1960112.45 ft
 East: 1102483.35 ft
 Station: 118+04.202
 Offset: LT 10.375

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
626.7	6-inch thick, ASPHALT --PAVEMENT--												
626.0	9-inch thick, CONCRETE --PAVEMENT--												
624.0	Loose, brown SANDY GRAVEL --BASE COURSE-- --Dry--	1	5 5 3	NP	7								
	Stiff, gray SILTY CLAY, trace gravel	2	3 2 3	1.56 B	16								
		3	2 2 4	1.31 B	15								
		4	2 3 4	1.48 B	17								
615.2	Dense to very dense, gray SANDY LOAM, some gravel --Wet--	5	3 9 16	1.80 B	13								
		6	10 16 21	NP	10								
		7	16 24 33	NP	9								
609.2	Hard, gray SILTY CLAY LOAM, trace gravel	8	15 17 26	4.18 S	12								
607.2	Boring terminated at 20.00 ft	20											

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-16-2015	Complete Drilling	06-16-2015	While Drilling	▽	12.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	CME 55	At Completion of Drilling	▼	15.00 ft	
Driller	R&J	Logger	A. Tomaras	Checked by	B. Wilson	Time After Drilling	NA
Drilling Method	3.25 IDA HSA; Backfilled upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 60749\CADD\CADD Sheets\Civil\060C48-sh-BORING LOG 1.dgn



USER NAME = jent	DESIGNED - JMT	REVISED -
PLOT SCALE = 2:0.0000 '1' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/29/2017	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BORING LOGS - I			
US ROUTE 14			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	44
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW23

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BORING LOG SDB-06
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 637.16 ft
 North: 1960189.91 ft
 East: 1102172.85 ft
 Station: 114+83.098
 Offset: RT 13.062

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)
636.2	12-inch thick, ASPHALT --PAVEMENT--						611.7	Very dense, gray SANDY LOAM --Dry--		11	5 27 45	NP	13
	Medium stiff to hard, gray SILTY CLAY, trace gravel	1	2 4 4	4.59 B	18				30	12	27 43 48	NP	14
		2	5 7 10	0.95 B	20				35	13	6 9 15	5.14 B	18
		3	4 5 7	2.95 B	19		605.4	Hard, gray SILTY CLAY LOAM, trace gravel	40	14	9 15 23	5.74 B	16
	--Seams of fine sand-- --L _c (%)=36, P _c (%)=16-- --%Gravel=1.9-- --%Sand=9.6-- --%Silt=54.6-- --%Clay=33.9-- --A-6 (17)--	4	3 4 5	1.64 B	22		597.2	Boring terminated at 40.00 ft	45	8	2 3 4	1.64 B	15
624.2	Medium dense, gray SILTY LOAM, trace gravel	5	2 2 9	2.62 B	29				50	10	8 12 13	4.50 P	16
		6	4 5 9	NP	18								
		7	5 5 8	NP	17								
618.2	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	8	2 3 4	1.64 B	15								
		9	9 10 12	2.62 B	16								
		10	8 12 13	4.50 P	16								

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-11-2015	Complete Drilling	06-11-2015	While Drilling	▽	13.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	▽	15 ft (Cave in)	
Driller	K&K	Logger	A. Happel	Time After Drilling		NA	
Checked by	B. Wilson	Drilling Method	2.25 IDA HSA; Backfilled upon completion	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG SDB-07
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 632.10 ft
 North: 1960168.98 ft
 East: 1102306.38 ft
 Station: 116+19.053
 Offset: RT 3.096

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)
631.3	9-inch thick, ASPHALT --PAVEMENT--						604.1	Gray, coarse SAND --Saturated--		11	16 28 18	7.13 B	12
631.0	5-inch thick, CONCRETE --PAVEMENT--						603.1	Hard, gray SILTY CLAY LOAM, trace gravel		12	11 10 16	4.50 P	17
630.4	6-inch thick, CRUSHED STONE --BASE COURSE--						601.6	Dense, gray, medium to coarse SAND, little gravel --Saturated--		13	13 18 15	NP	12
	Stiff to very stiff, gray SILTY CLAY, trace gravel	1	9 4 5	NA	18		599.8	Hard, gray SILTY CLAY LOAM, trace gravel		14	21 28 35	8.80 S	10
		2	2 3 5	1.89 B	25					15	12 17 22	6.23 B	11
		3	2 3 7	2.13 B	21					16	6 11 22	5.99 B	16
		4	2 5 5	NP	22								
		5	1 2 7	NP	26								
		6	4 6 5	NP	19								
624.9	Loose to medium dense, gray SILT --Moist--	10	2 5 5	NP	22		592.1	Boring terminated at 40.00 ft	40				
		15	5 7 10	NP	11								
616.6	Medium dense, gray SANDY LOAM --Moist--	7	5 7 10	NP	11								
614.1	Dense, gray SILT --Dry--	8	13 20 25	NP	14								
611.6	Hard, gray SILTY CLAY LOAM, trace gravel	9	6 11 15	8.20 B	13								
		10	8 12 16	6.64 B	14								

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-15-2015	Complete Drilling	06-15-2015	While Drilling	▽	8.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	CME 55	At Completion of Drilling	▽	35.00 ft	
Driller	R&J	Logger	B. Wilson	Time After Drilling		NA	
Checked by	B. Wilson	Drilling Method	3.25 IDA HSA; Backfilled upon completion	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 60749\CADD\CADD Sheets\C.v1\060C48-sh-BORING LOG 11.dgn



USER NAME = jent	DESIGNED - JMT	REVISED -
PLOT SCALE = 2:0.0000 '1' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/29/2017	DATE - 08-30-17	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS -- II
 US ROUTE 14

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	45
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW24

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BORING LOG SDB-08
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 628.71 ft
 North: 1960130.13 ft
 East: 1102399.05 ft
 Station: 117+19.999
 Offset: RT 8.441

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
328.0	8-inch thick, ASPHALT --PAVEMENT--												
327.6	5-inch thick, CONCRETE --PAVEMENT--												
325.7	Medium dense, gray CRUSHED STONE --BASE COURSE--												
	Medium dense, gray SILT --Moist--	5	1	8 6	NP	7				11	9 12 16	8.20 B	15
			2	9 7 10	NP	16				12	7 11 18	7.05 B	15
			3	2 6 8	NP	17	598.7	Boring terminated at 30.00 ft					
320.7	Medium stiff to hard, gray SILTY CLAY LOAM, trace gravel	10	4	2 3 3	0.74 B	17							
			5	2 3 4	0.98 B	16							
			6	6 8 15	4.59 B	13							
311.5	Gray SILT	15	7	7 10 29	5.90 B	17							
310.7	Hard, gray SILTY CLAY LOAM, trace gravel --Dry--	20	8	9 9 15	7.54 B	13							
			9	6 10 15	6.97 B	13							
			10	5 9 15	5.74 B	16							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-15-2015	Complete Drilling	06-15-2015	While Drilling	▽	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	CME 55	At Completion of Drilling	▼	DRY	
Driller	R&J	Logger	B. Wilson	Time After Drilling	NA		
Drilling Method	3.25 IDA HSA; Backfilled upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG SDB-09
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 627.67 ft
 North: 1960099.48 ft
 East: 1102467.10 ft
 Station: 117+95.052
 Offset: RT 8.295

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
627.6	6-inch thick, ASPHALT --PAVEMENT--												
625.4	6-inch thick, CONCRETE --PAVEMENT--												
	Medium dense, brown SANDY GRAVEL --BASE COURSE--												
	Stiff to very stiff, gray SILTY CLAY, trace gravel --Dry--	5	1	7 8 11	NP	10				2	6 4 5	1.56 B	14
			2	2 3 5	2.38 B	14				3	2 3 5	2.38 B	14
			3	2 3 5	1.23 B	16				4	2 3 5	1.23 B	16
			4	5 9 8	1.80 B	13				5	5 9 8	1.80 B	13
614.7	Medium dense, gray SANDY GRAVEL --Wet--	15	6	8 12 14	NP	12				6	8 12 14	NP	12
612.2	Very dense, gray SILT to SILTY LOAM --Moist--	20	7	20 29 49	NP	18				7	20 29 49	NP	18
			8	19 50/55	NP	14				8	19 50/55	NP	14
607.2	Hard, gray SILTY CLAY LOAM, trace gravel --Saturated--	25	9	12 18 28	6.40 B	12				9	12 18 28	6.40 B	12
602.7			10	31 44 37	> 4.50 P	9				10	31 44 37	> 4.50 P	9

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-16-2015	Complete Drilling	06-16-2015	While Drilling	▽	13.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	CME 55	At Completion of Drilling	▼	14.00 ft	
Driller	R&J	Logger	A. Tomaras	Time After Drilling	NA		
Drilling Method	3.25 IDA HSA; Backfilled upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 80749\CAOD\CADD Sheets\Civil\060C48-sh-BORING LOG 111.dgn



USER NAME = jent	DESIGNED - JMT	REVISED -
PLOT SCALE = 2:0.0000 '1' / in.	DRAWN - JMT	REVISED -
PLOT DATE = 8/29/2017	CHECKED - TGM	REVISED -
	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS - III
 US ROUTE 14**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	46
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW25

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BORING LOG RWB-01
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 643.85 ft
 North: 1960153.69 ft
 East: 1102207.82 ft
 Station: 115+25.221
 Offset: RT 42.288

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
642.3	19-inch thick, dark brown SILTY LOAM, trace roots		1	PUSH	NP	24							
641.9	--TOPSOIL-- Brown SILTY LOAM		2	PUSH	2.29 S	18							
	Very stiff to hard, brown SILTY CLAY to SILTY CLAY LOAM, trace to little gravel		3	PUSH	8.60 S	17							
			4	PUSH	4.50 P	15							
635.4	Boring terminated at 8.50 ft		5	PUSH	2.25 P	17							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-25-2015	Complete Drilling	06-25-2015	While Drilling	☐	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling	▼	DRY	
Driller	S&J	Logger	D. Kolpacki	Time After Drilling	NA		
Drilling Method	1" IDA Pneumatic Geoprobe LB Sampler			Checked by	B. Wilson		
				Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG RWB-02
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 643.32 ft
 North: 1960142.32 ft
 East: 1102247.01 ft
 Station: 115+67.755
 Offset: RT 44.65

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
641.5	22-inch thick, dark brown SILTY LOAM		1	PUSH	NP	34							
640.8	--TOPSOIL-- Brown SILTY LOAM		2	PUSH	3.63 S	20							
	Very stiff to hard, brown to gray SILTY CLAY LOAM, trace gravel		3	PUSH	4.01 B	19							
			4	PUSH	7.26 B	19							
633.3	Boring terminated at 10.00 ft		5	PUSH	6.88 B	18							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-25-2015	Complete Drilling	06-25-2015	While Drilling	☐	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling	▼	DRY	
Driller	S&J	Logger	D. Kolpacki	Time After Drilling	NA		
Drilling Method	1" IDA Pneumatic Geoprobe LB Sampler			Checked by	B. Wilson		
				Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 80749\CADD\CADD Sheets\Civil\060C48-sh-BORING LOG 1V.dgn



USER NAME = jent	DESIGNED - JMT	REVISED -
PLOT SCALE = 2:0.0000 '1' / in.	DRAWN - JMT	REVISED -
PLOT DATE = 8/29/2017	CHECKED - TGM	REVISED -
	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BORING LOGS - IV US ROUTE 14			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	47
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW26

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BORING LOG RWB-03
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 642.44 ft
 North: 1960117.21 ft
 East: 1102313.55 ft
 Station: 116+42.084
 Offset: RT 50.301

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
641.2	15-inch thick, dark brown SILTY LOAM, trace roots --TOPSOIL-- --Damp--	0	1	PUSH	NP	37							
	Medium stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	2	2	PUSH	2.67 B	20							
		5	3	PUSH	0.76 B	29							
		10	4	PUSH	4.01 B	19							
		15	5	PUSH	4.20 B	20							
		20	6	PUSH	2.87 B	22							
630.4	Boring terminated at 12.00 ft												

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-25-2015	Complete Drilling	06-26-2015	While Drilling	▽	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling	▼	DRY	
Driller	S&J	Logger	DK & AH	Time After Drilling	NA		
Drilling Method	1" IDA Pneumatic Geoprobe LB Sampler			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG RWB-04
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 642.59 ft
 North: 1960081.29 ft
 East: 1102385.22 ft
 Station: 117+26.266
 Offset: RT 58.837

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	Stiff, brown and gray SILTY CLAY LOAM, trace gravel	1	1	PUSH	1.72 B	17							
640.9	Brown SANDY LOAM, trace gravel --Wet--	2	2	PUSH	NP	17							
638.1	Very stiff to hard, brown to gray SILTY CLAY LOAM to SILTY LOAM, trace gravel --Seams of fine sand--	5	3	PUSH	3.20 B	11							
	--L _c (%)=27, P _L (%)=16-- --%Gravel=2.7-- --%Sand=21.2-- --%Silt=57.5-- --%Clay=18.6-- --A-6 (6)--	10	4	PUSH	3.44 B	16							
	--Seams of fine sand--	15	5	PUSH	10.12 B	18							
		20	6	PUSH	3.92 S	20							
630.6	Boring terminated at 12.00 ft												

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-26-2015	Complete Drilling	06-26-2015	While Drilling	▽	2.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling	▼	10.00 ft	
Driller	S&J	Logger	A. Happel	Time After Drilling	NA		
Drilling Method	1" IDA Pneumatic Geoprobe LB Sampler			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DUR\3016c-WO 3 Contract No. 80749\CADD\CADD Sheets\Civil\060C48-sh-BORING LOG V.dgn



USER NAME = jent	DESIGNED - JMT	REVISED -
PLOT SCALE = 2:0.0000 '1' / in.	DRAWN - JMT	REVISED -
PLOT DATE = 8/29/2017	CHECKED - TGM	REVISED -
	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BORING LOGS - V US ROUTE 14			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	48
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW27

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BORING LOG NDB-03
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 642.04 ft
 North: 1960222.52 ft
 East: 1102023.69 ft
 Station: 113+30.884
 Offset: LT 6.01

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
641.74	7.4-inch thick, ASPHALT --PAVEMENT--												
640.7	12-inch thick, CONCRETE --PAVEMENT--												
639.5	Loose, gray CRUSHED STONE --BASE COURSE--		1	2 3 3	NP	6							
	Very stiff to hard, brown to gray SILTY CLAY, trace gravel		2	6 3 3		2.21							
			3	4 4 8		5.17							
			4	2 6 8		5.00							
			5	5 5 5		3.28							
			6	3 6 7		2.87							
627.0	Boring terminated at 15.00 ft												

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-24-2015	Complete Drilling	06-24-2015	While Drilling	☐	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR	At Completion of Drilling	▼	DRY	
Driller	K&K	Logger	A. Happel	Time After Drilling	NA		
Checked by	B. Wilson	Drilling Method	2.25 IDA HSA; Backfilled upon completion	Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG SDB-03
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 643.30 ft
 North: 1960198.79 ft
 East: 1101935.73 ft
 Station: 112+43.675
 Offset: RT 20.375

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
643.04	4-inch thick, ASPHALT --PAVEMENT--												
642.8	8-inch thick, CONCRETE --PAVEMENT--												
642.0	4-inch thick, gray and brown CRUSHED STONE --BASE COURSE--		1	2 1 3	1.50	4							
	Medium stiff to very stiff, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel		2	2 2 1	0.50	26							
	--Dry--		3	4 5 5	1.50	20							
	--Seam of sand--		4	5 9 13	2.87	19							
			5	3 6 10	3.28	19							
			6	2 3 6	2.25	17							
628.3	Boring terminated at 15.00 ft												

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-11-2015	Complete Drilling	06-11-2015	While Drilling	☐	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	▼	DRY	
Driller	K&K	Logger	A. Happel	Time After Drilling	NA		
Checked by	B. Wilson	Drilling Method	2.25 IDA HSA; Backfilled upon completion	Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 80749\CADD\CADD Sheets\Civil\060C48-sh-BORING LOG V1.dgn



USER NAME = jent	DESIGNED - JMT	REVISED -
PLOT SCALE = 2:0.0000 '1' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/29/2017	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS - VI
 US ROUTE 14**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	49
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW28

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BORING LOG NDB-04
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 641.32 ft
 North: 1960219.21 ft
 East: 1102107.84 ft
 Station: 114+14.636
 Offset: LT 7.565

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
341.0	0.4-inch thick, ASPHALT --PAVEMENT--												
340.0	12-inch thick, CONCRETE --PAVEMENT--												
335.6	5 inch thick, gray CRUSHED STONE --BASE COURSE--	1	3	3	2.87	19	613.3	Very dense, gray SILTY LOAM --Dry--	11	4	8	6.97	15
	Very stiff, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	2	9	10	2.00	18			12	17	34	NP	14
		3	7	7	3.20	19	609.6	Hard, gray SILTY CLAY, trace gravel	13	6	9	6.15	13
		4	2	5	3.50	18			14	8	12	7.71	16
		5	3	3	2.46	21							
		6	2	3	2.62	15	601.3	Boring terminated at 40.00 ft					
325.8	Medium dense, gray SILTY LOAM, trace gravel --Moist--	7	5	8	NP	13							
323.3	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	8	4	5	1.89	13							
		9	3	4	1.89	15							
		10	2	4	1.80	15							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-24-2015	Complete Drilling	06-24-2015	While Drilling	▽	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR	At Completion of Drilling	▼	DRY	
Driller	K&K	Logger	A. Happel	Time After Drilling	NA		
Drilling Method	2.25 IDA HSA; Backfilled upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG NDB-05
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 636.27 ft
 North: 1960206.23 ft
 East: 1102211.21 ft
 Station: 115+17.969
 Offset: LT 9.872

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
635.9	0.4-inch thick, ASPHALT --PAVEMENT--						610.8	Very stiff to hard, gray SILTY CLAY, trace gravel					
634.9	12-inch thick, CONCRETE --PAVEMENT--												
633.7	3-inch thick, gray CRUSHED STONE --BASE COURSE--	1	5	4	4.50	15			11	5	7	3.77	15
	Stiff to hard, gray SILTY CLAY to CLAY, trace gravel	2	6	5	3.44	16			12	8	10	5.99	14
		3	6	3	2.95	23	606.3	Boring terminated at 30.00 ft					
		4	3	3	1.64	26							
625.8	Medium dense, gray SANDY LOAM, trace gravel --Moist--	5	6	11	NP	20							
623.3	Medium dense, gray SILTY LOAM --Dry--	6	8	17	NP	13							
620.8	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	7	3	3	1.64	15							
		8	3	4	1.31	15							
		9	3	7	4.92	15							
613.3	Dense, gray SILTY LOAM --Wet--	10	4	16	NP	15							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-24-2015	Complete Drilling	06-24-2015	While Drilling	▽	23.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR	At Completion of Drilling	▼	DRY	
Driller	K&K	Logger	A. Happel	Time After Drilling	NA		
Drilling Method	2.25 IDA HSA; Backfilled upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 60749\CAOD\CADD Sheets\Civil\060C48-sh-BORING LOG VII.dgn



USER NAME = jent	DESIGNED - JMT	REVISED -
PLOT SCALE = 2:0.0000 '1' = 1 in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/29/2017	DATE - 08-30-17	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS - VII
 US ROUTE 14
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	50
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW29

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BORING LOG HA-NDB-05
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 640.07 ft
 North: 1960232.49 ft
 East: 1102212.23 ft
 Station: 115+13.96
 Offset: 35.83 LT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
639.66	6-inch thick, dark brown SILTY LOAM --TOPSOIL-- Hard, brown SILTY CLAY, trace gravel	0	1	PUSC	4.50	13							
		1	2	PUSC	4.50	14							
		2	3	PUSC	4.50	15							
634.1	Boring terminated at 6.00 ft												

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	09-02-2015	Complete Drilling	09-02-2015	While Drilling	☒	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling	☒	DRY	
Driller	R&K	Logger	D. Kolpacki	Time After Drilling	NA		
Drilling Method	1" IDA Pneumatic Geoprobe LB Sampler			Depth to Water	☒	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG NDB-06
 WEI Job No.: 491-02-03
 Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NGVD
 Elevation: 632.16 ft
 North: 1960179.88 ft
 East: 1102312.55 ft
 Station: 116+21.767
 Offset: LT 9.128

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
631.3	10-inch thick, ASPHALT --PAVEMENT--	0											
630.8	5-inch thick, CONCRETE --PAVEMENT--	1											
	Stiff to very stiff, gray SILTY CLAY, trace gravel	1	5	4 5	1.25	22				11	8 13 19	10.25	13
		2	2 3 4	2.54	24					12	8 12 19	10.25	15
		3	2 4 5	2.71	21		600.4	Dense, gray, medium SAND, little gravel					
		4	2 2 4	1.07	23			--Wet--					
622.7	Gray SILT	10					597.7	Hard, gray SILTY CLAY, trace gravel, silt lenses		13	9 22 24	NP	12
620.8	Very stiff, gray SILTY CLAY (Qu-2.5tsf)		5	2 1 2	0.25	23		Boring terminated at 35.00 ft					
619.2	Soft, gray SILTY CLAY												
	Medium dense, gray SILT	15											
616.7	Medium stiff, gray SILTY CLAY LOAM		7	2 6 8	0.82	14							
614.2	Very dense, gray SILT	20											
610.9	Hard, gray SILTY CLAY, trace gravel	25											

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	07-07-2015	Complete Drilling	07-07-2015	While Drilling	☒	9.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	CME 55	At Completion of Drilling	☒	28.00 ft	
Driller	K&R	Logger	A. Tomaras	Time After Drilling	NA		
Drilling Method	3.25 IDA HSA; Backfilled upon completion			Depth to Water	☒	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 60749\CADD\CADD Sheets\Civil\60C48-sh-BORING LOG VIII.dgn



USER NAME = jent	DESIGNED - JMT	REVISED -
PLOT SCALE = 2:0.0000 '1' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/29/2017	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS - VIII
 US ROUTE 14**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	51
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				

SW30



wengeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG RWB-06

Page 1 of 1

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
 Project: **US 14 under CN/UP RR**
 Location: **Des Plaines, IL**

Datum: NAVD
 Elevation: 643.44 ft
 North: 1960219.65 ft
 East: 1102340.28 ft
 Station: 116+35.862
 Offset: LT 55.385

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. (recovery)	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. (recovery)	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)
341.7	Black SILTY LOAM --TOPSOIL--	0	1		PUSH	NP	33								
	Stiff to hard, brown and gray SILTY CLAY LOAM, trace gravel --Wet, possible sand lens--	1	2		PUSH	3.06	16								
		5	3		PUSH	4.78	17								
			4		PUSH	3.25	17								
			5		PUSH	4.78	17								
333.4	Boring terminated at 10.00 ft	10													

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-26-2015	Complete Drilling	06-26-2015	While Drilling	2.00 ft		
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling	9.50 ft		
Driller	S&J	Logger	A. Happel	Time After Drilling	NA		
Checked by	B. Wilson	Drilling Method	1" IDA Pneumatic Geoprobe LB Sampler	Depth to Water	NA		
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

WANGENGINC 4910205.GPJ WANGENG.GDT 10/26/15

FILE NAME = Q:\Engineering\LiveProjects\13016 IDOT DURN\3016c-WO 3 Contract No. 60749\CADD\CADD Sheets\Civil\DESIGN\BORING LOG 1X.dgn

SW31



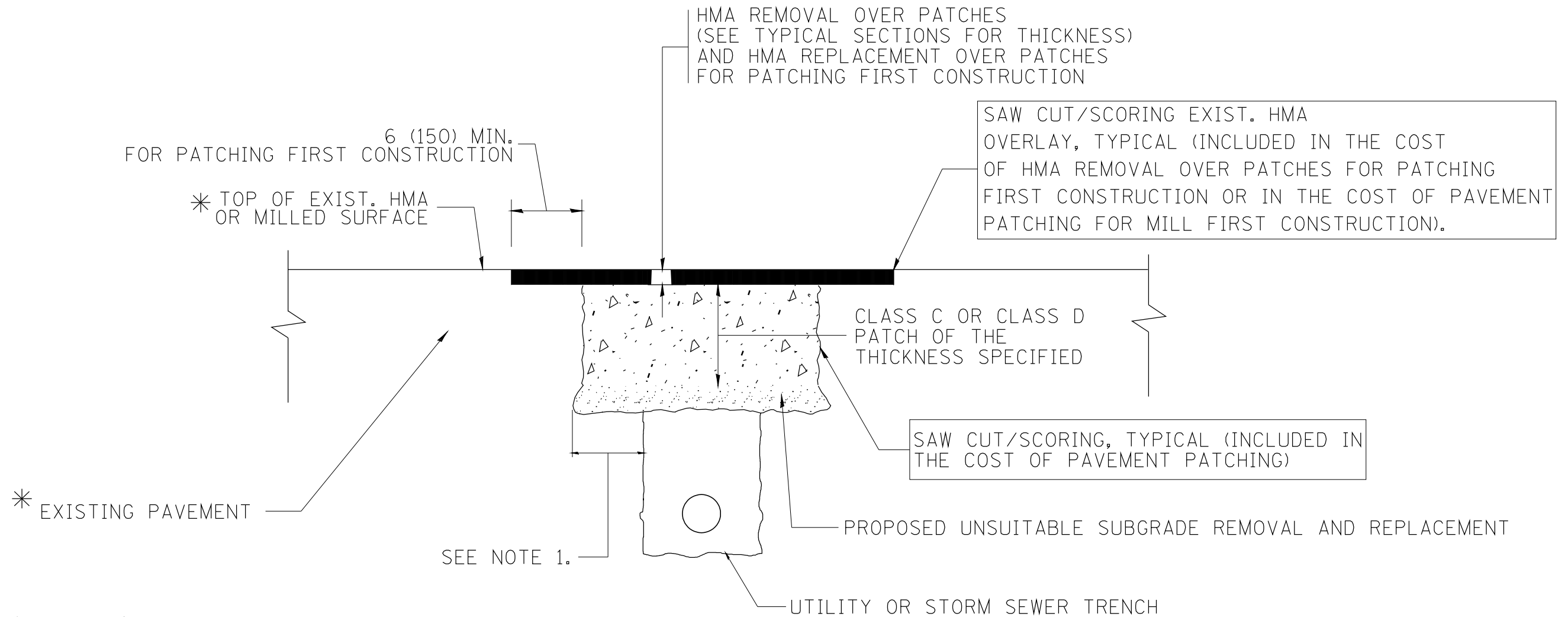
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	DRAWN - JMT	REVISED -
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PLOT DATE = 8/29/2017	DATE - 08-30-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS - IX
US ROUTE 14

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	52
CONTRACT NO. 60C48				
ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

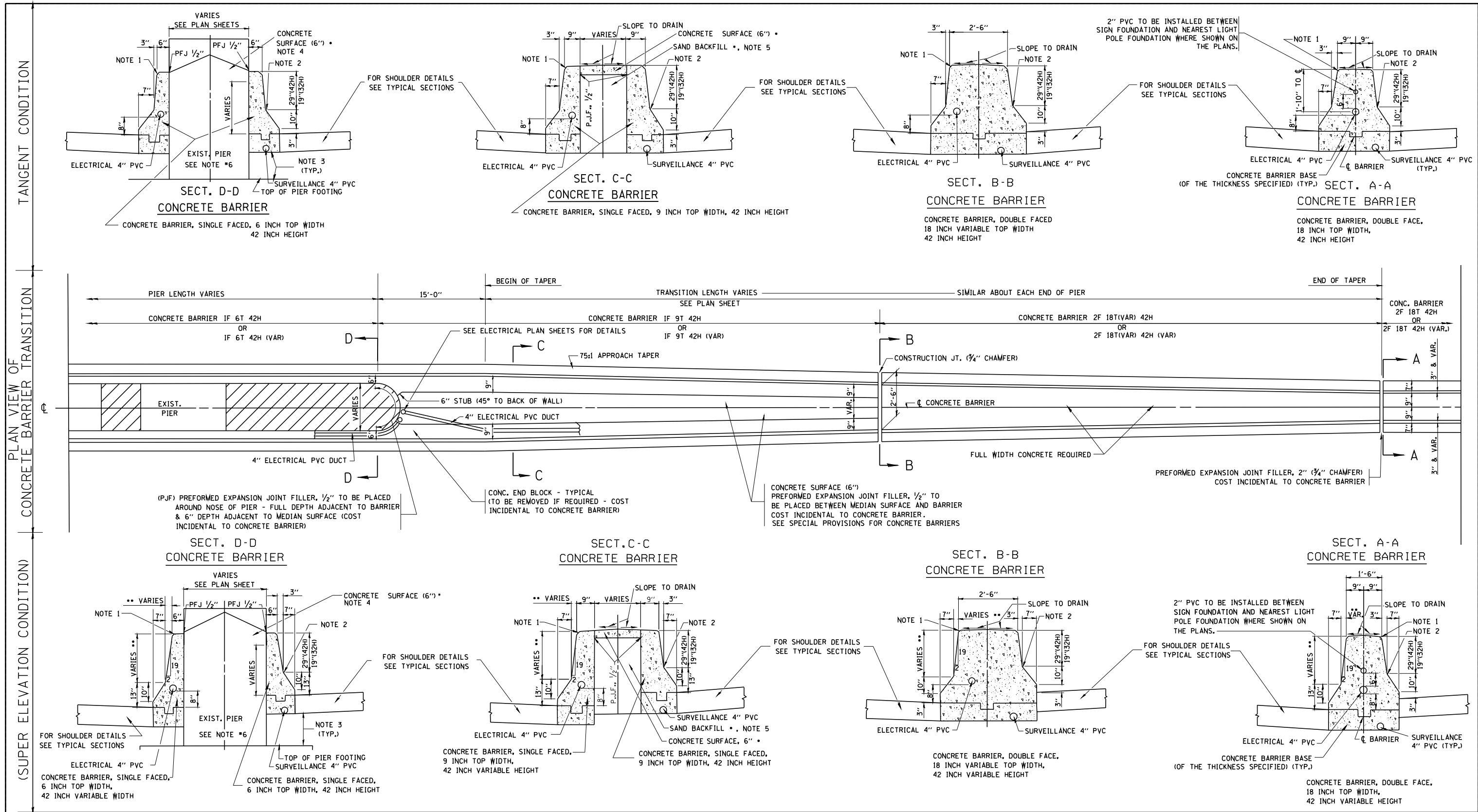
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

SW32

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT		F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. BORO 01-01-07				3512	86 S-1-1	COOK	156	53
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07		SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08		BD400-04 (BD-22)		CONTRACT NO. 60C48				



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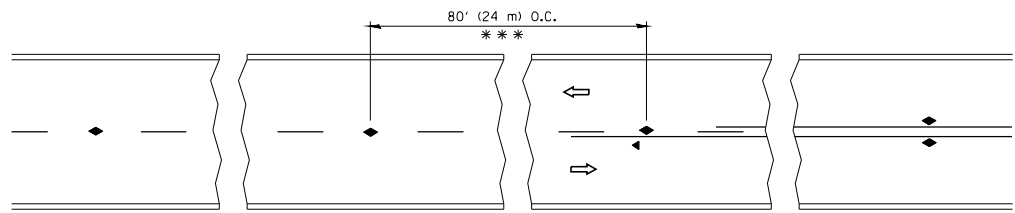
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PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 1/4/2008	CHECKED -	REVISED -
	DATE - 09-09-88	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONCRETE BARRIER TRANSITION & GENERAL DETAILS, CONCRETE BARRIER BASE	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

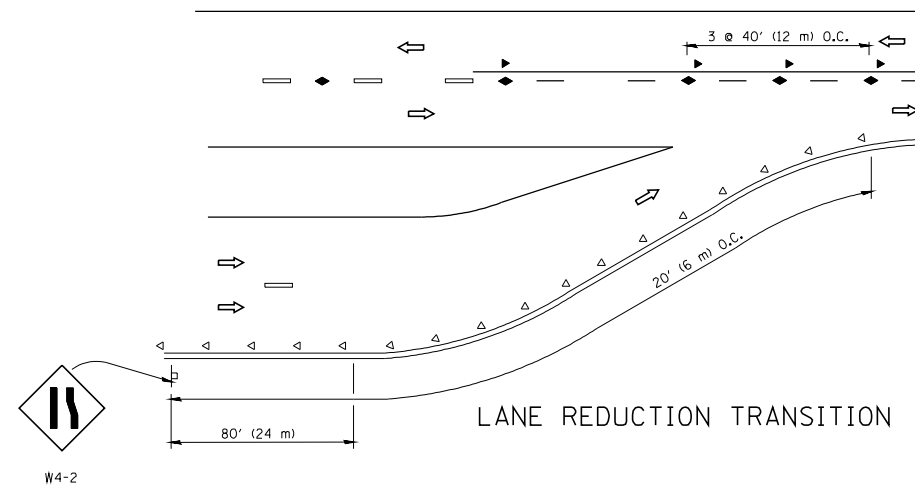
F.A.U. RTE. 3512	SECTION 86 S-1-1	COUNTY COOK	TOTAL SHEETS 156	SHEET NO. 54
BD-27		CONTRACT NO. 60C48		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SW33

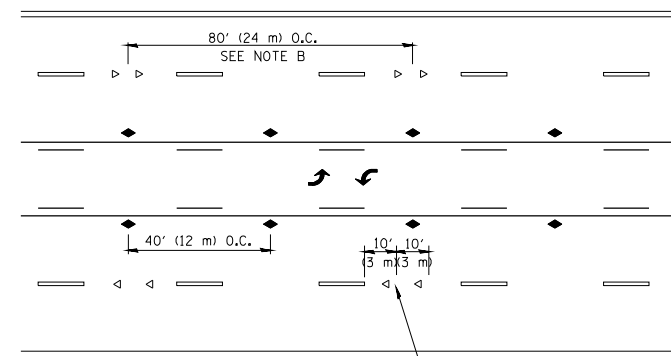


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

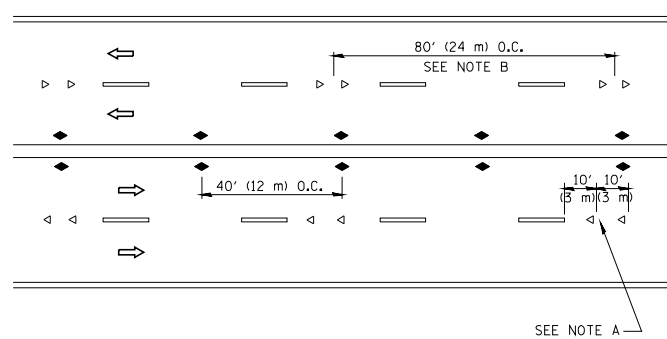
TWO-LANE/TWO-WAY



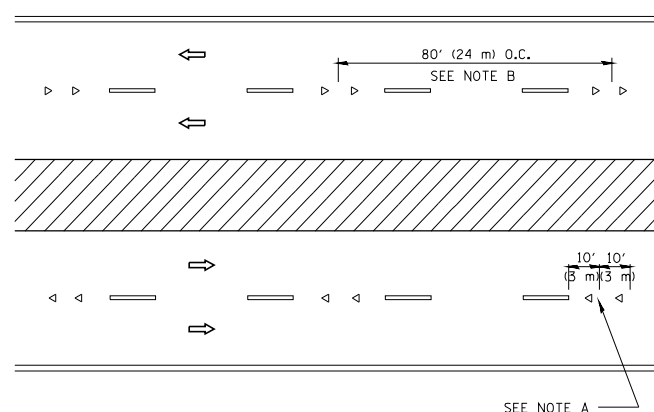
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

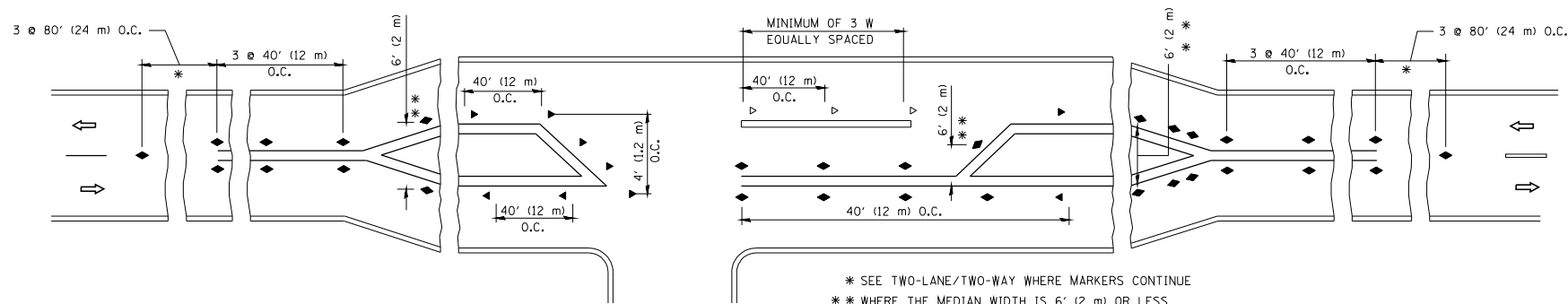
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

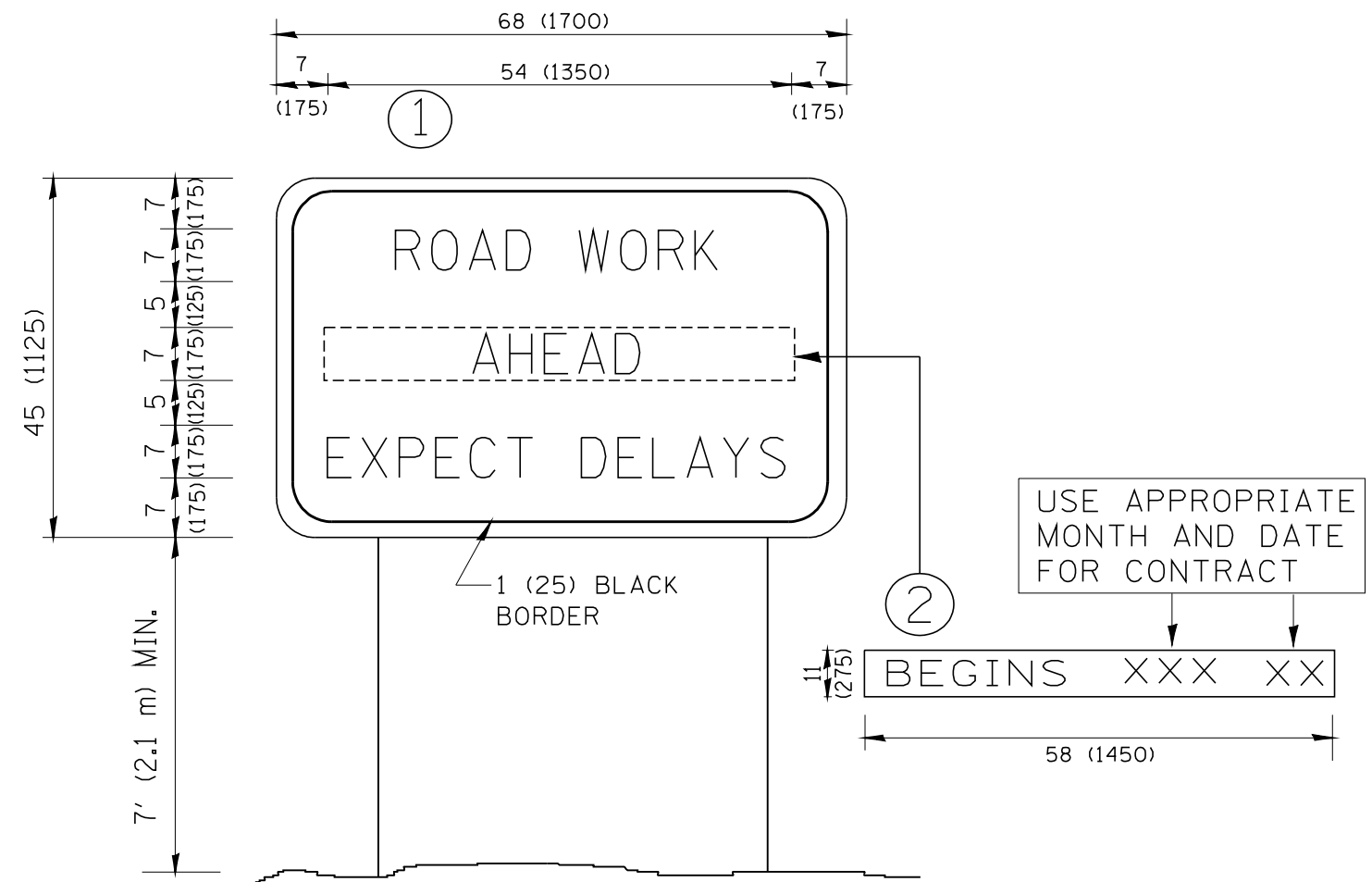
SW35

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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	56
TC-11			CONTRACT NO. 60C48	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

SW37

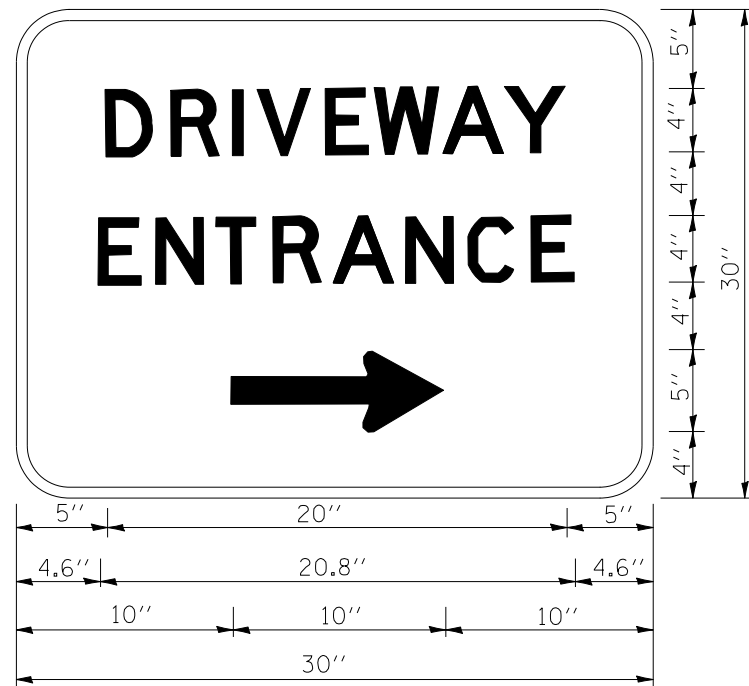
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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.J. RTE. 3512	SECTION 86 S-I-1	COUNTY COOK	TOTAL SHEETS 156	SHEET NO. 58
TC-22			CONTRACT NO. 60C48	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
 PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN)
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
ct:\pw\work\p1dot\gaglianobt\d0108315\to26.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.000' / 1in.	CHECKED -	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

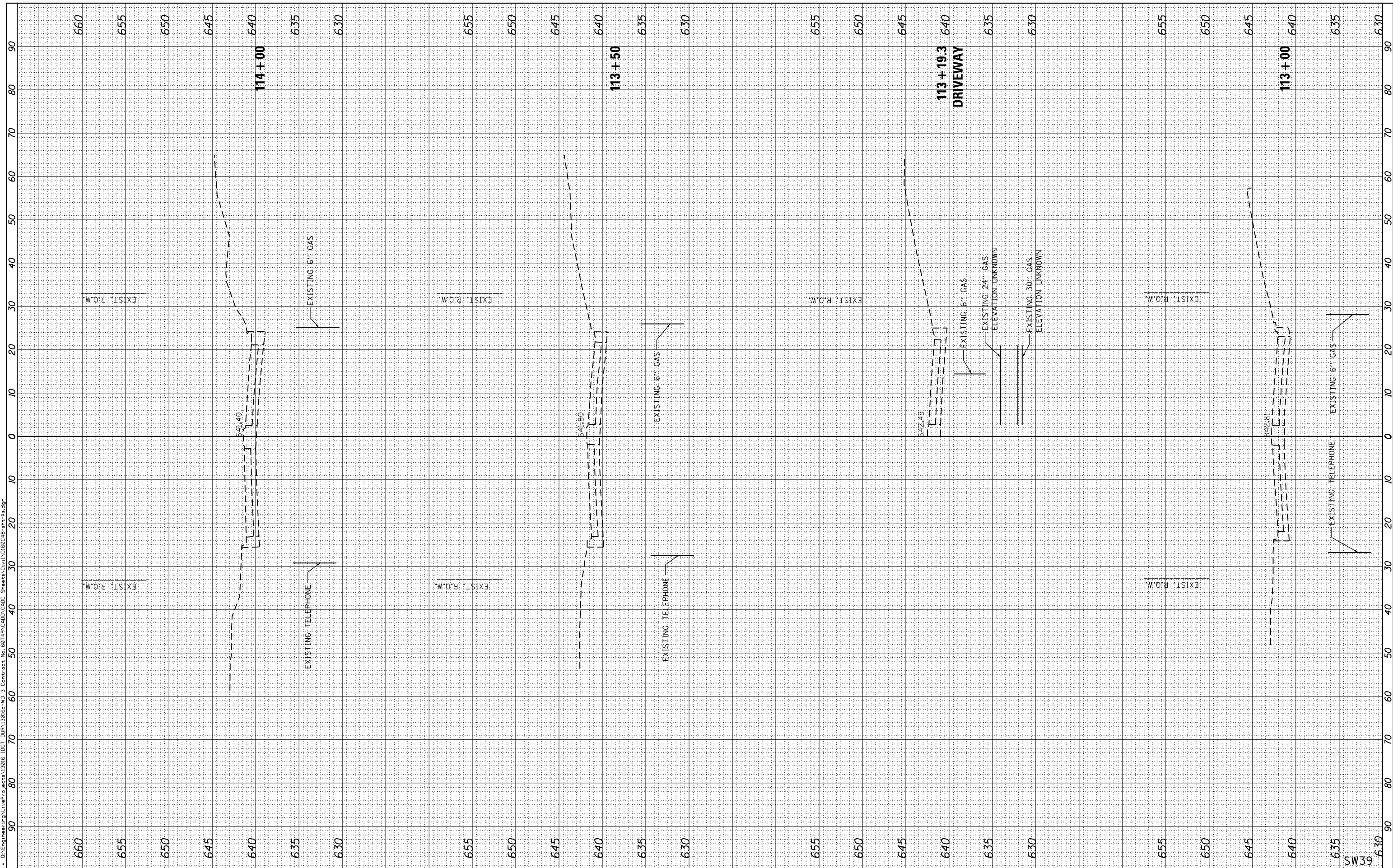
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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-I-1	COOK	156	59
TC-26			CONTRACT NO. 60C48	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED

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PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 8/29/2017	CHECKED - TGM	REVISED -
	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. 113+00.000 TO STA. 114+00.000

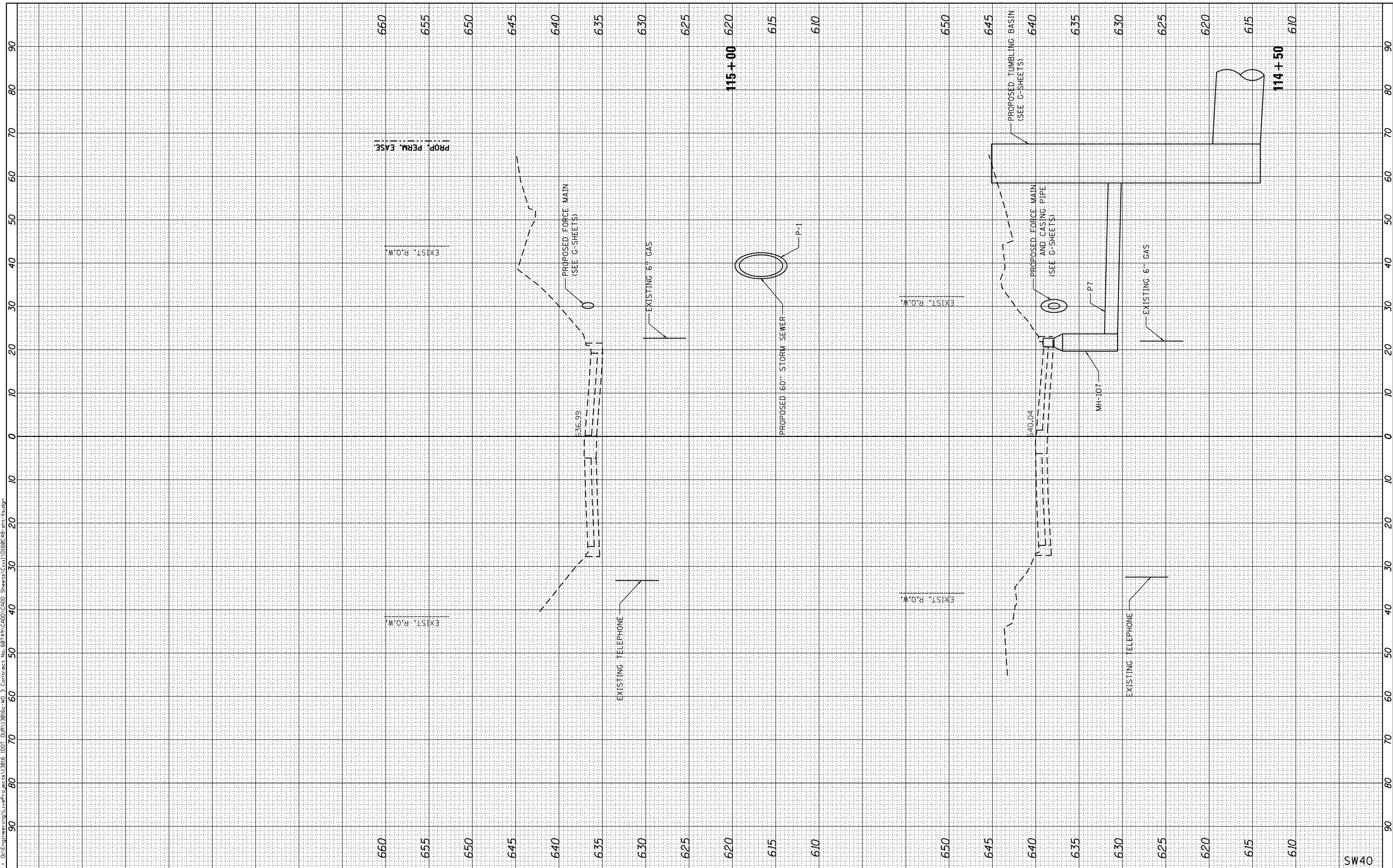
**CROSS SECTIONS
US ROUTE 14**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	60
CONTRACT NO. 60C48				SW39
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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PLOT DATE = 8/29/2017

DESIGNED - JN	REVISED -
DRAWN - JN	REVISED -
CHECKED - TGM	REVISED -
DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. 114+50,000 TO STA. 115+00,000

**CROSS SECTIONS
US ROUTE 14**

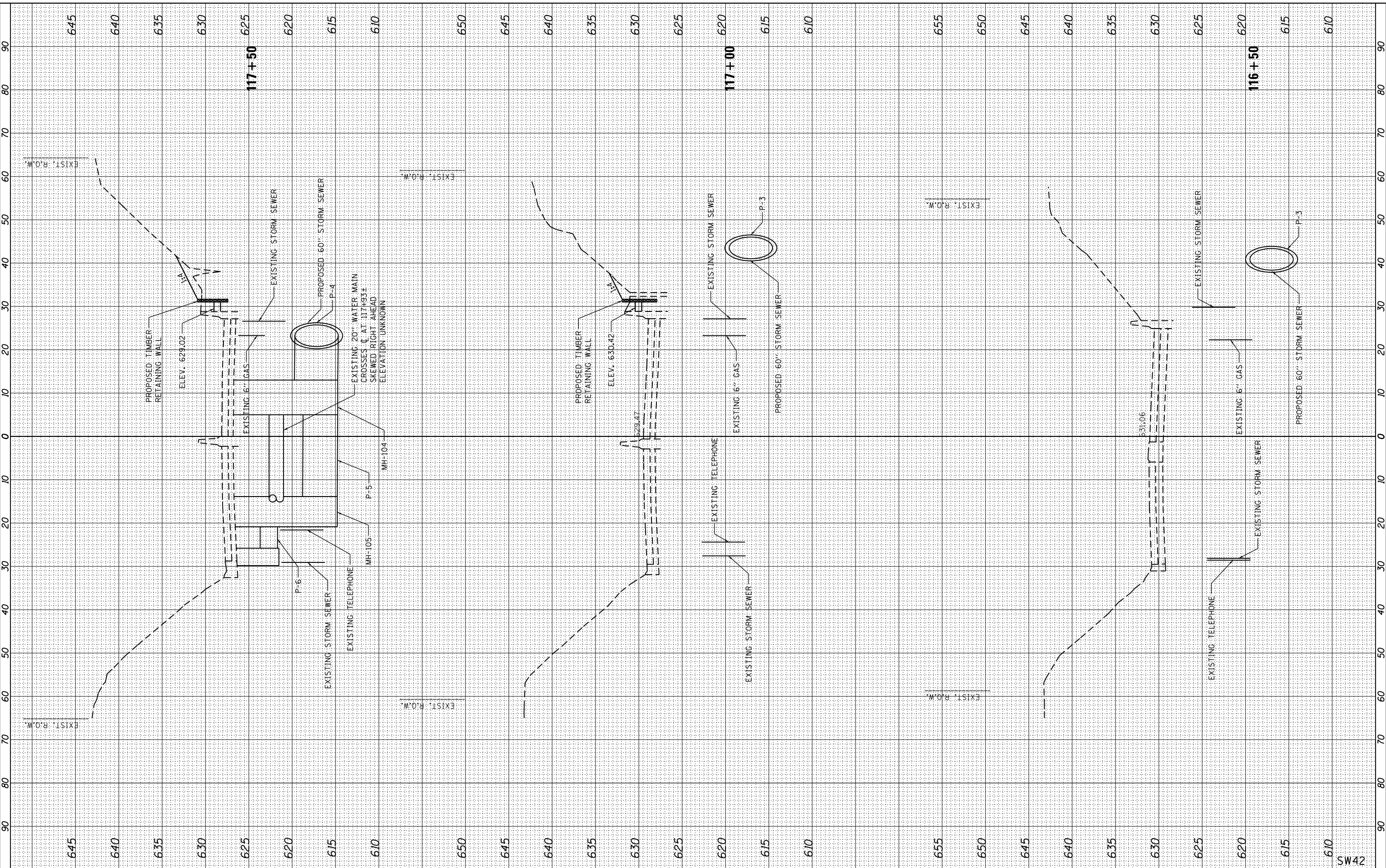
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C48	

SW40

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

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PLOT DATE = 8/29/2017	CHECKED - TGM	REVISED -
	DATE - 08-30-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA. 116+50,000	TO	STA. 117+50,000
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**CROSS SECTIONS
US ROUTE 14**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	63
CONTRACT NO. 60C48			ILLINOIS FED. AID PROJECT	

SW42

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ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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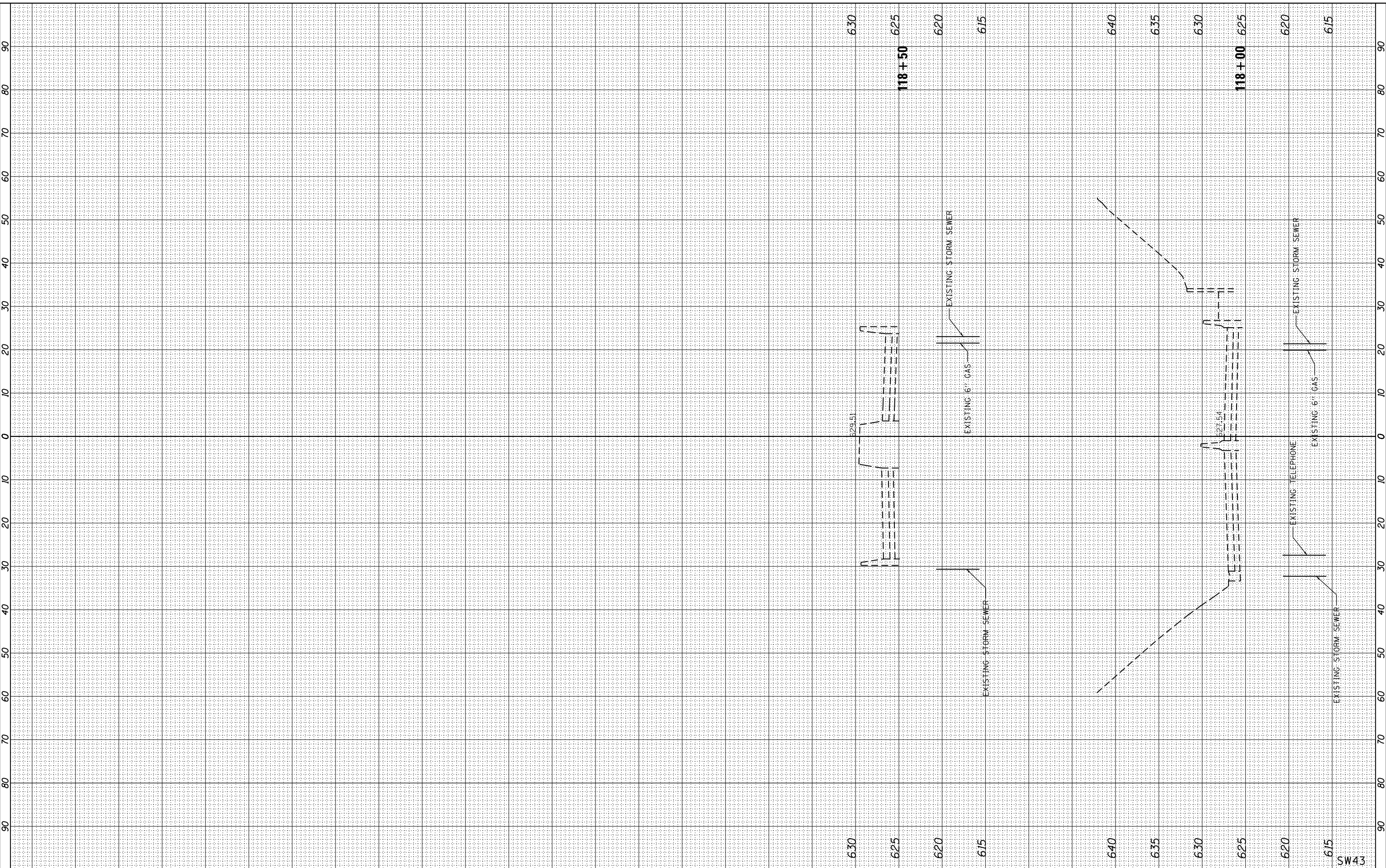
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	DATE - 08-30-17	REVISED -

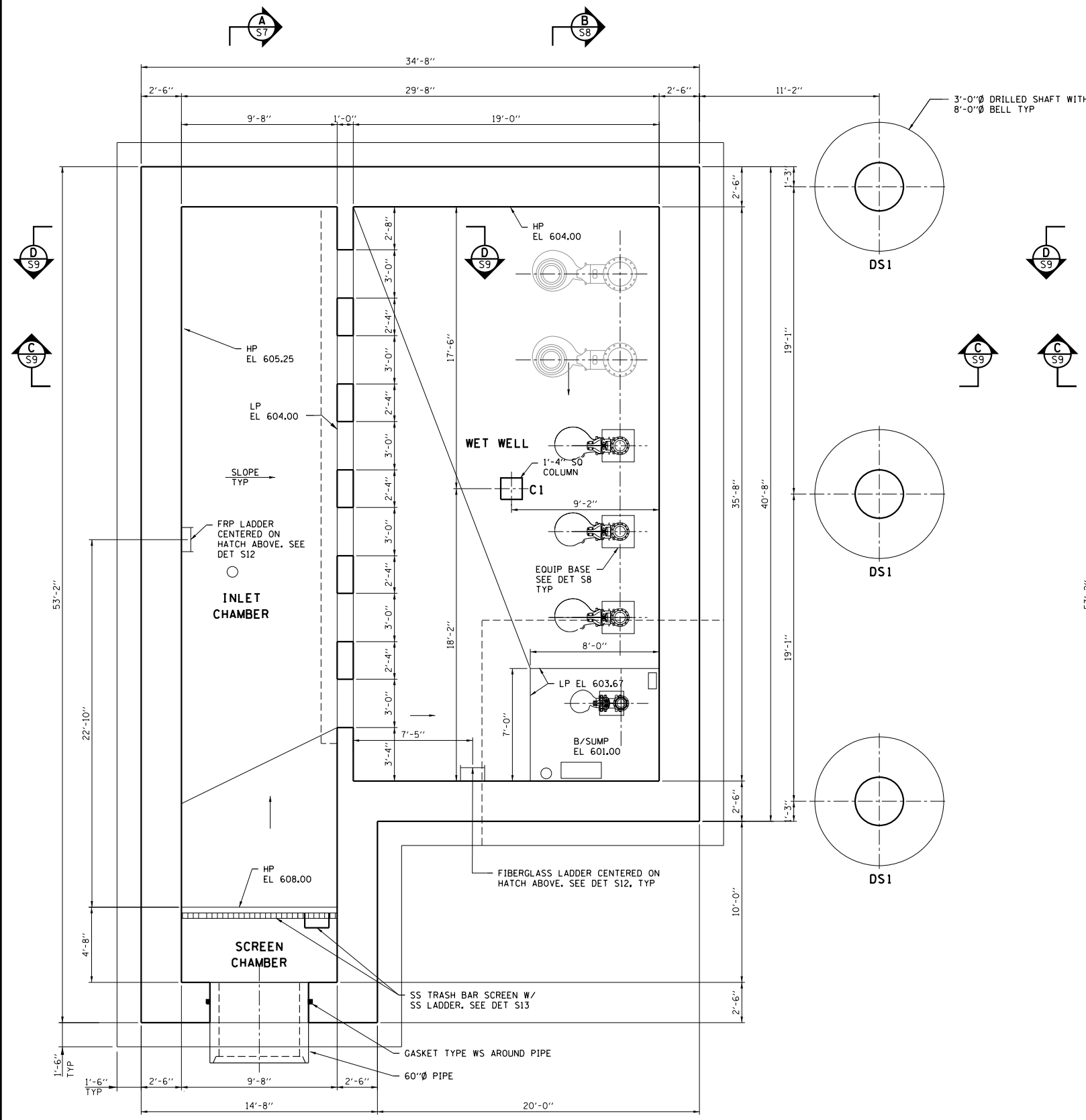
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. 118+00.000 TO STA. 118+50.000

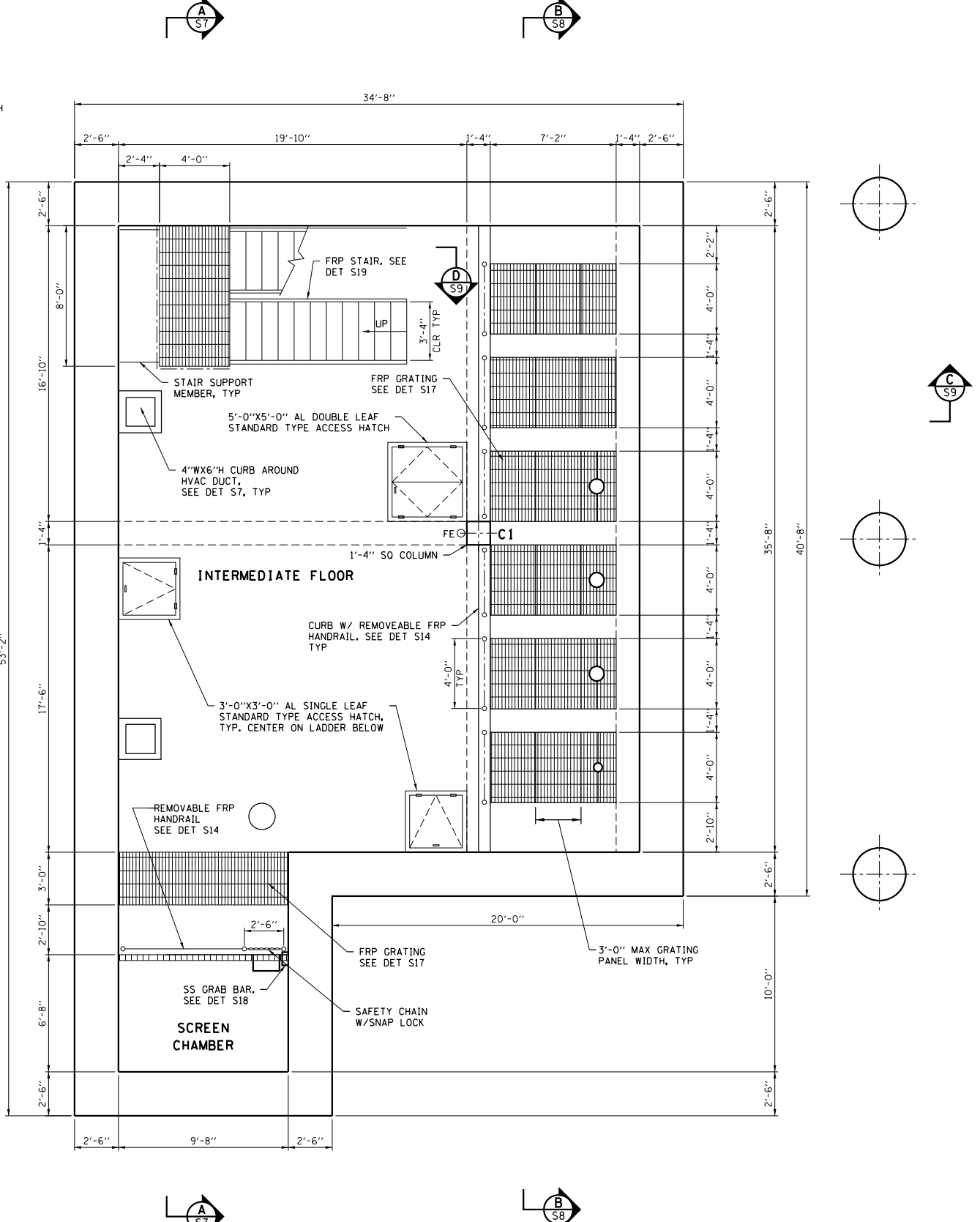
CROSS SECTIONS
US ROUTE 14

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	86 S-1-1	COOK	156	64
CONTRACT NO. 60C48			SW43	
ILLINOIS FED. AID PROJECT				





PLAN AT EL. 604.00



PLAN AT EL. 618.00

SCALE: 0 4 8 FT.

S1

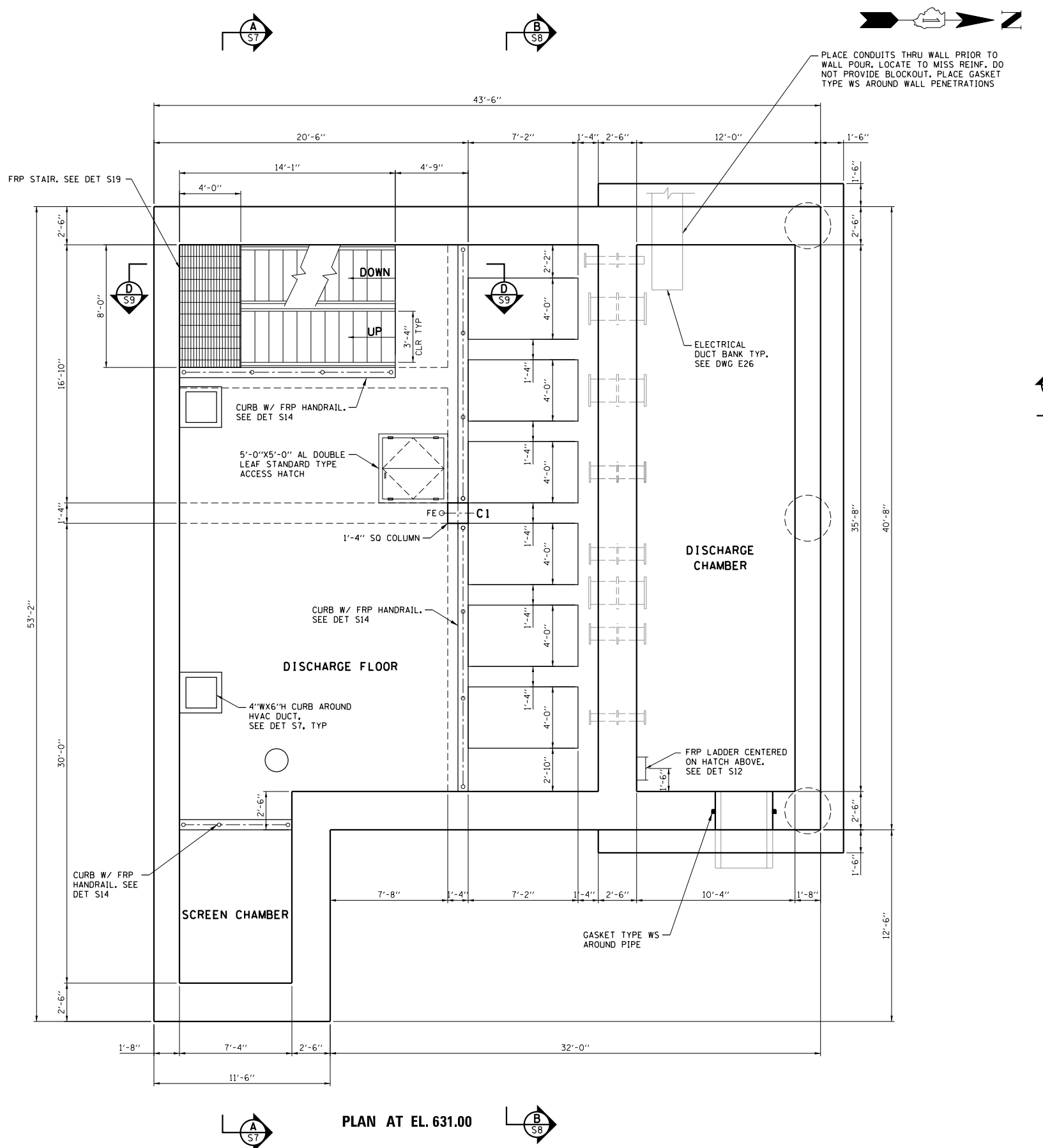


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PLOT SCALE =	DRAWN - SDR	REVISED -
PLOT DATE =	CHECKED - TJB	REVISED -
	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION			
STRUCTURAL PLANS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	65
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



PLACE CONDUITS THRU WALL PRIOR TO WALL POUR. LOCATE TO MISS REINF. DO NOT PROVIDE BLOCKOUT. PLACE GASKET TYPE WS AROUND WALL PENETRATIONS

PLAN AT EL. 631.00

SCALE: 0 4 8 FT.

S2



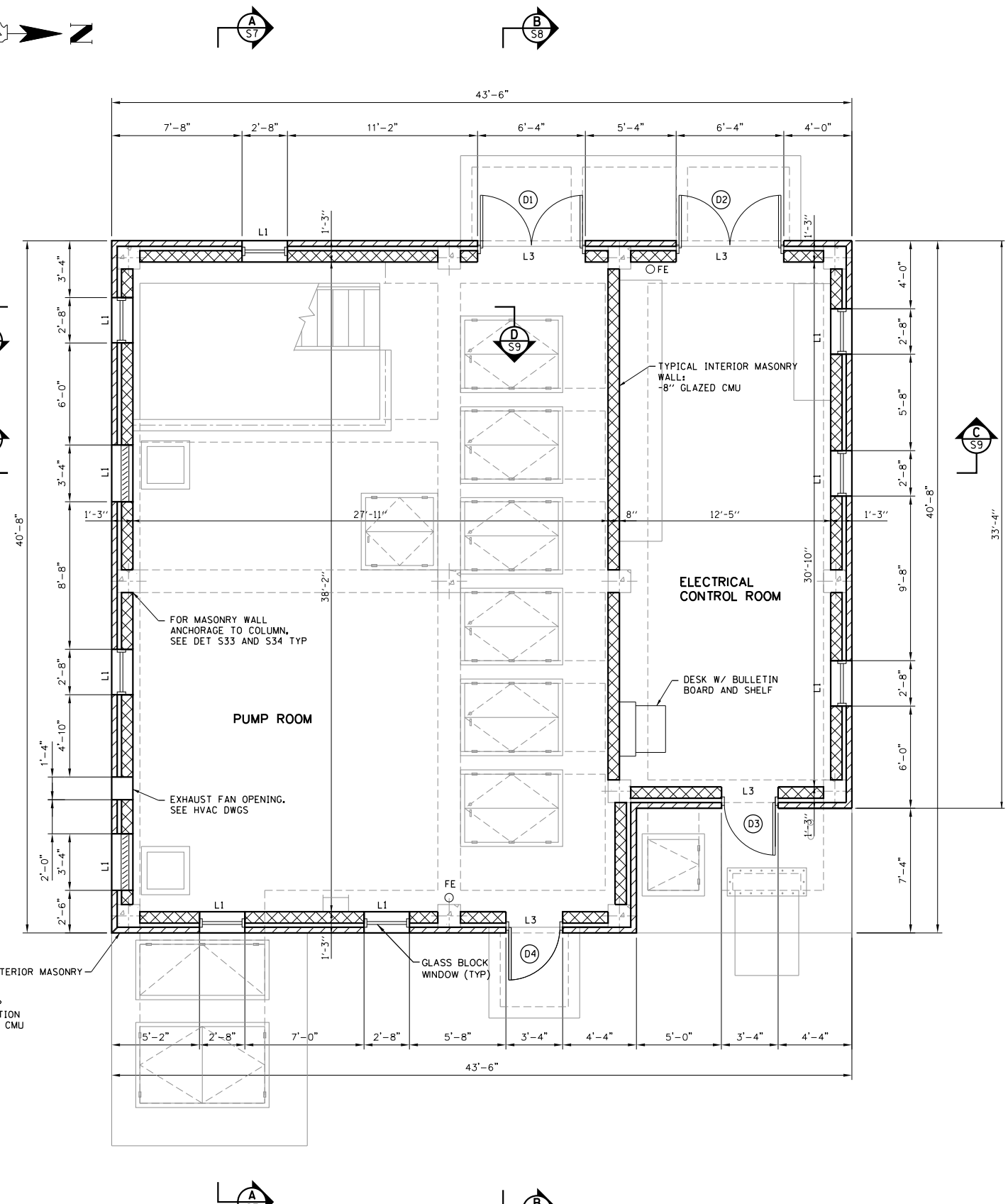
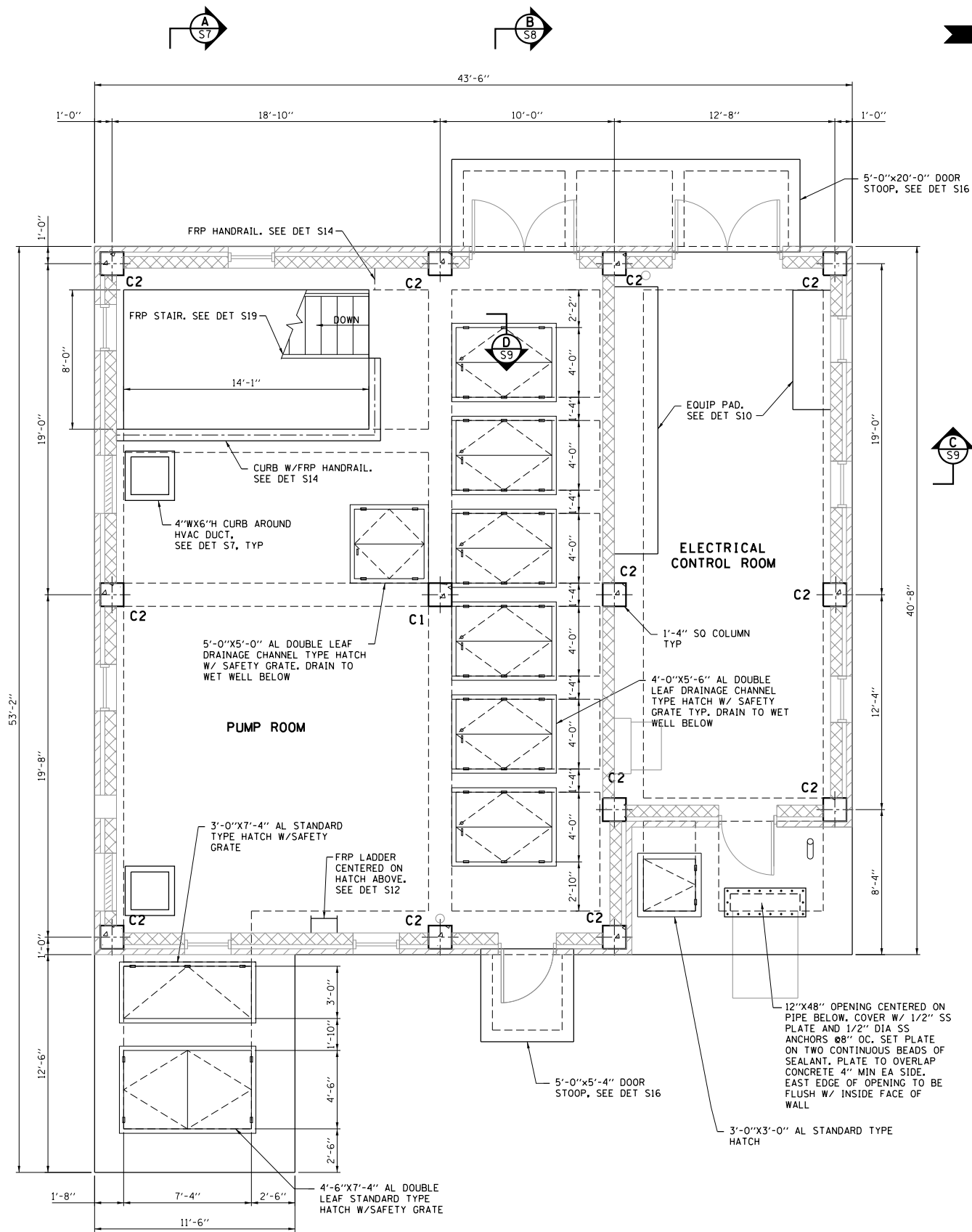
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	DRAWN - SDR	REVISED -
PLOT SCALE =	CHECKED - TJB	REVISED -
PLOT DATE =	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION			
STRUCTURAL PLAN			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	66
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

FILE NAME =



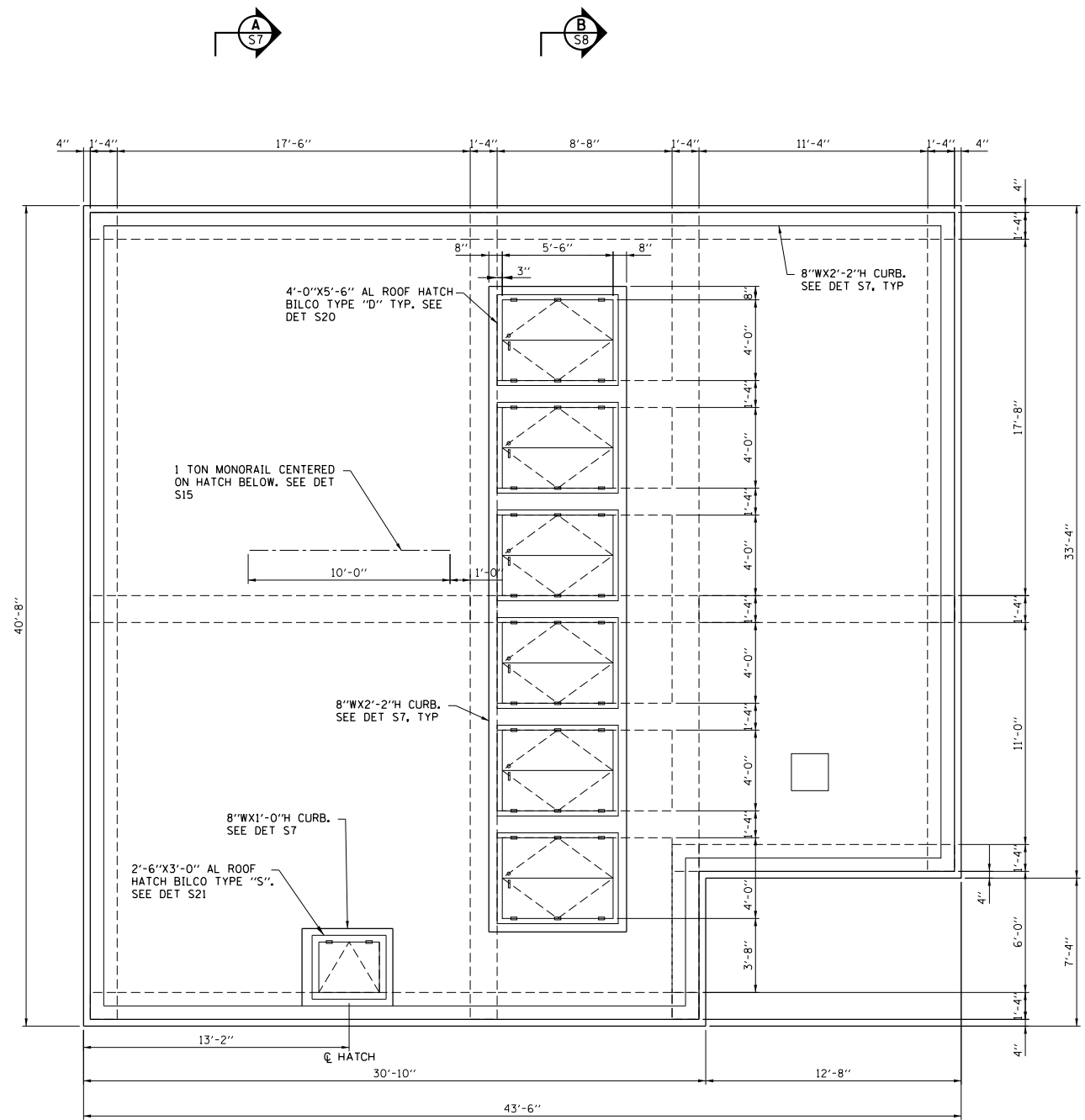
STRUCTURAL PLAN AT EL. 644.00

FLOOR PLAN AT EL. 644.00

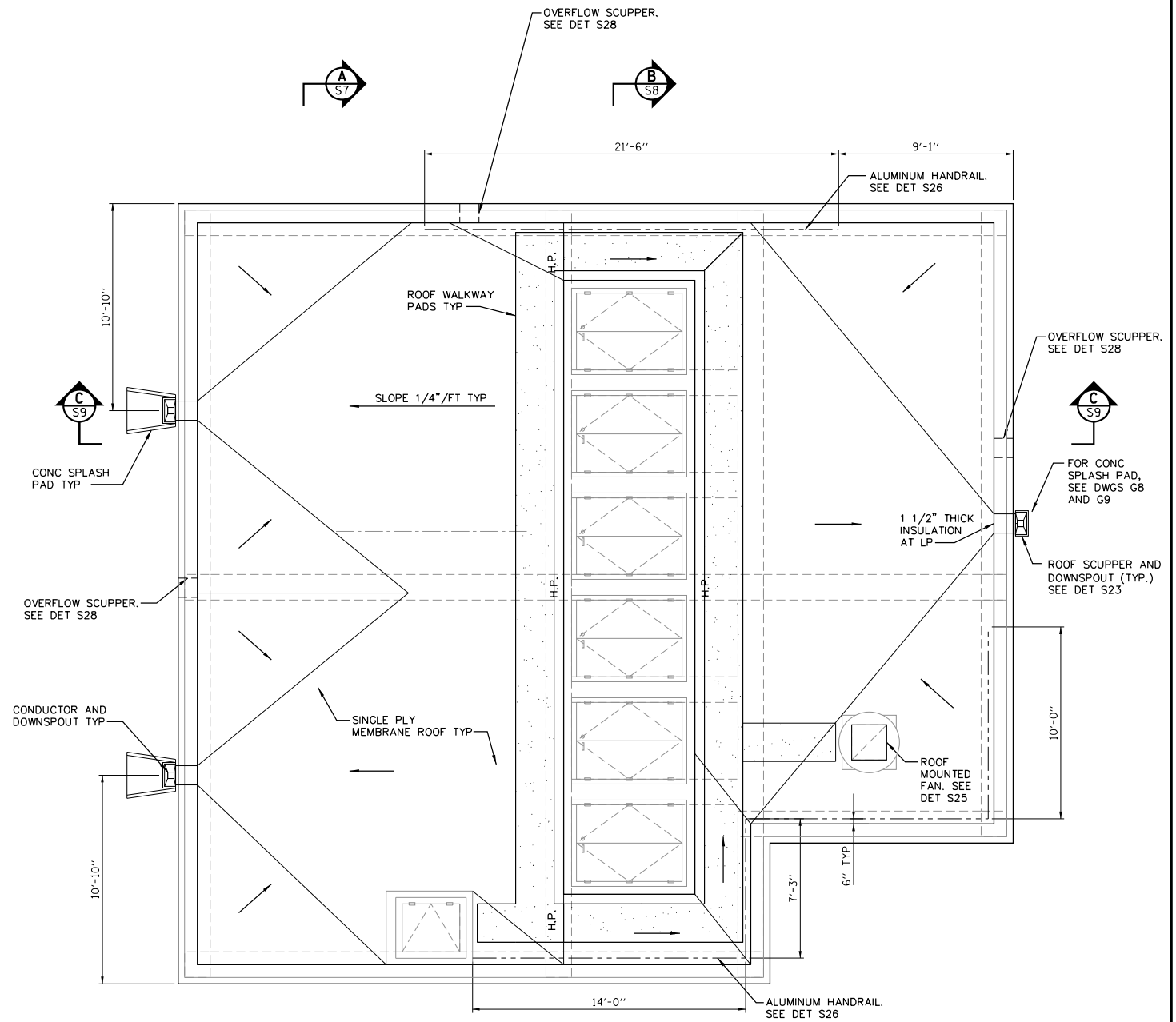
SCALE: 0 4 8 FT.

S3

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	PLOT DATE =	CHECKED - TJB	REVISED -					NORTHWEST HIGHWAY	CONTRACT NO. 60C48			
		DATE - 09-29-17	REVISED -					ILLINOIS FED. AID PROJECT				
SCALE: SHEET OF SHEETS STA. TO STA.												



STRUCTURAL PLAN AT EL. 659.50



ROOF PLAN AT EL. 659.50

SCALE: 0 4 8 FT.

S4

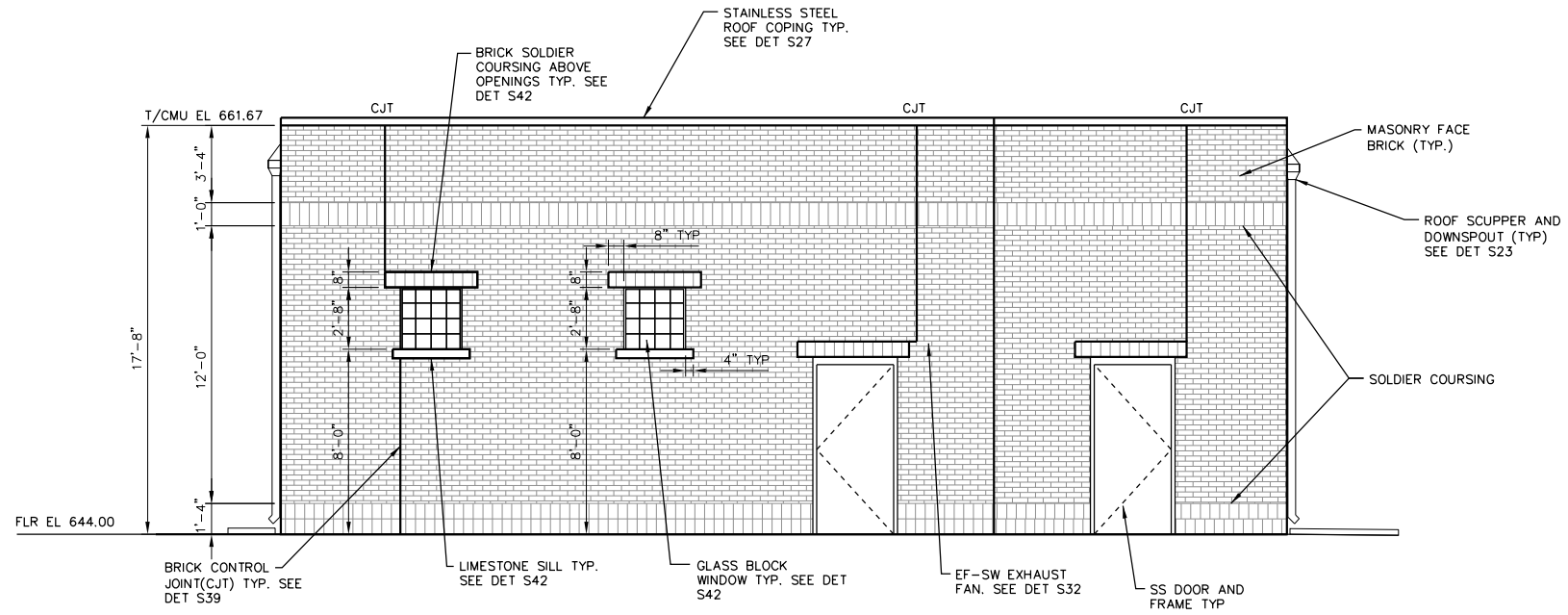


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PLOT SCALE =	DRAWN - SDR	REVISED -
PLOT DATE =	CHECKED - TJB	REVISED -
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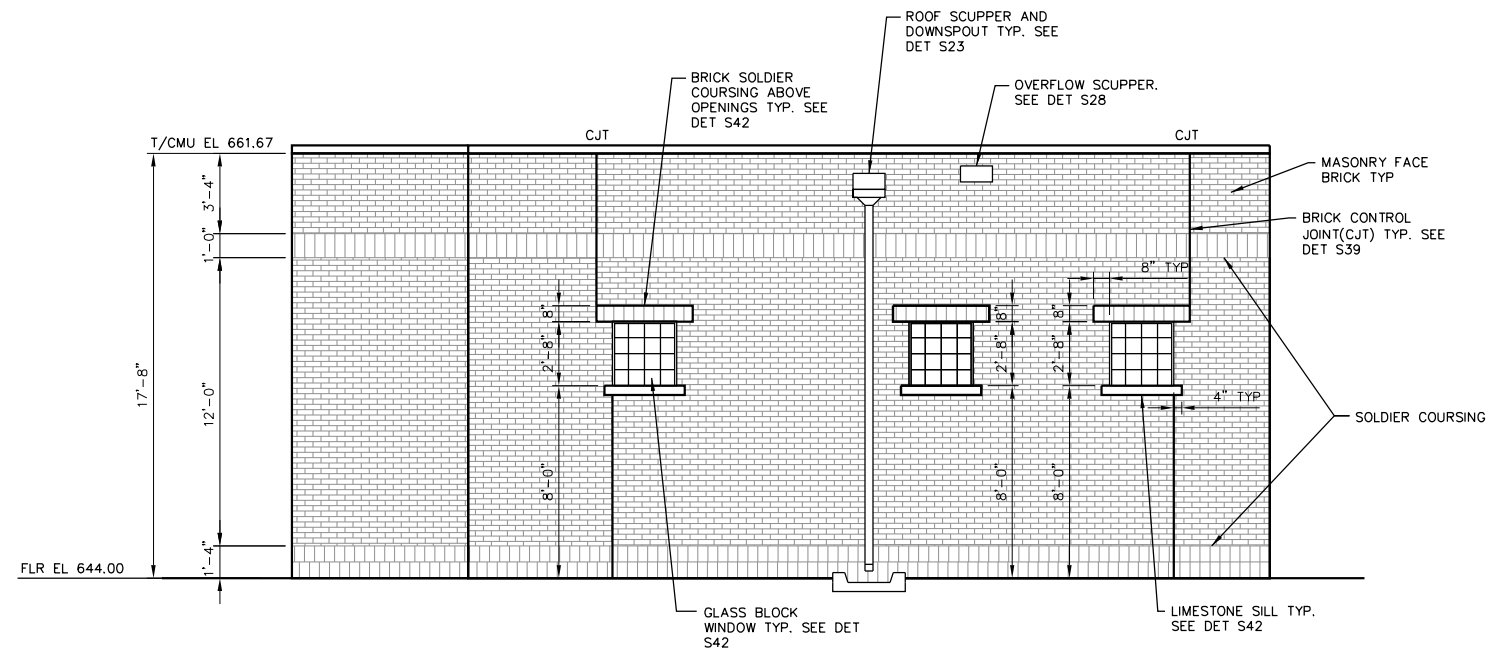
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION STRUCTURAL PLANS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-I-I	COOK	156	68
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



EAST ELEVATION



NORTH ELEVATION

SCALE: 0 4 8 FT.

S5



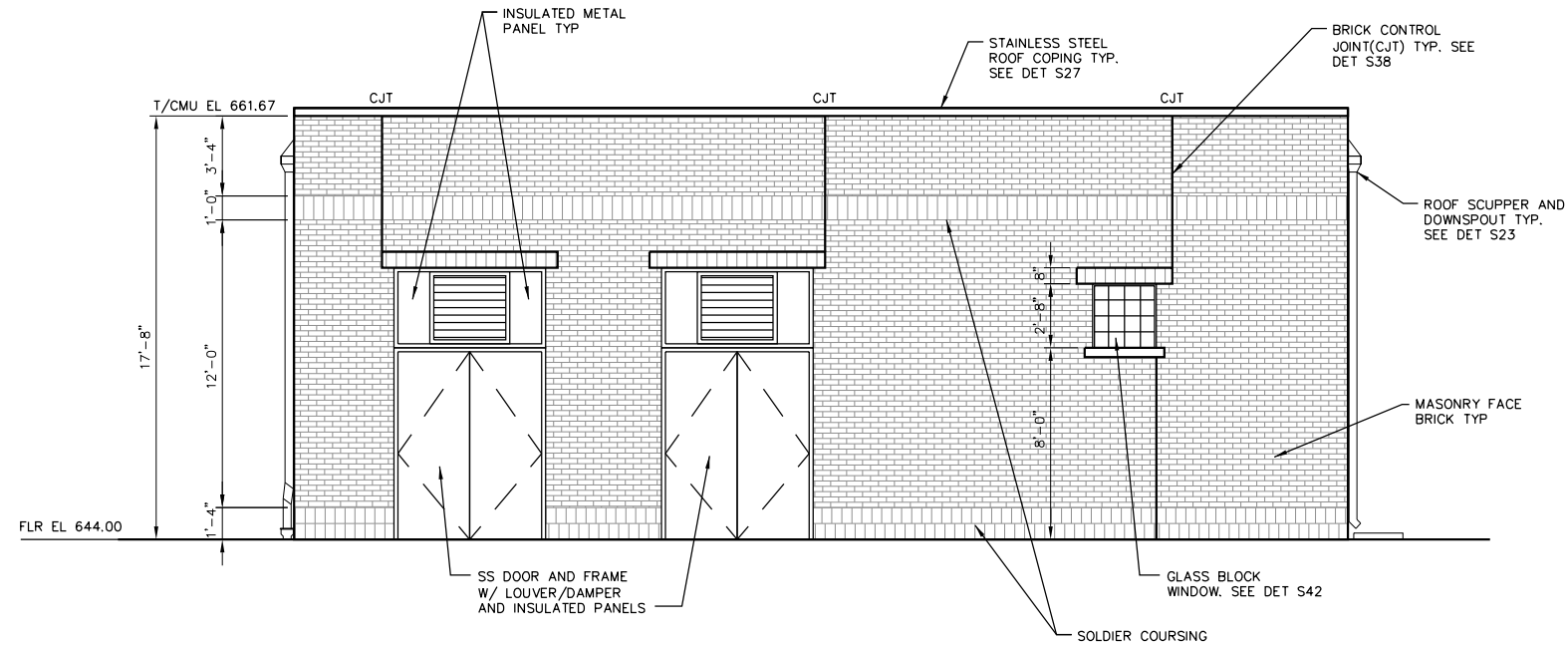
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PLOT SCALE =	DRAWN - SDR	REVISED -
PLOT DATE =	CHECKED - TJB	REVISED -
	DATE - 09-29-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

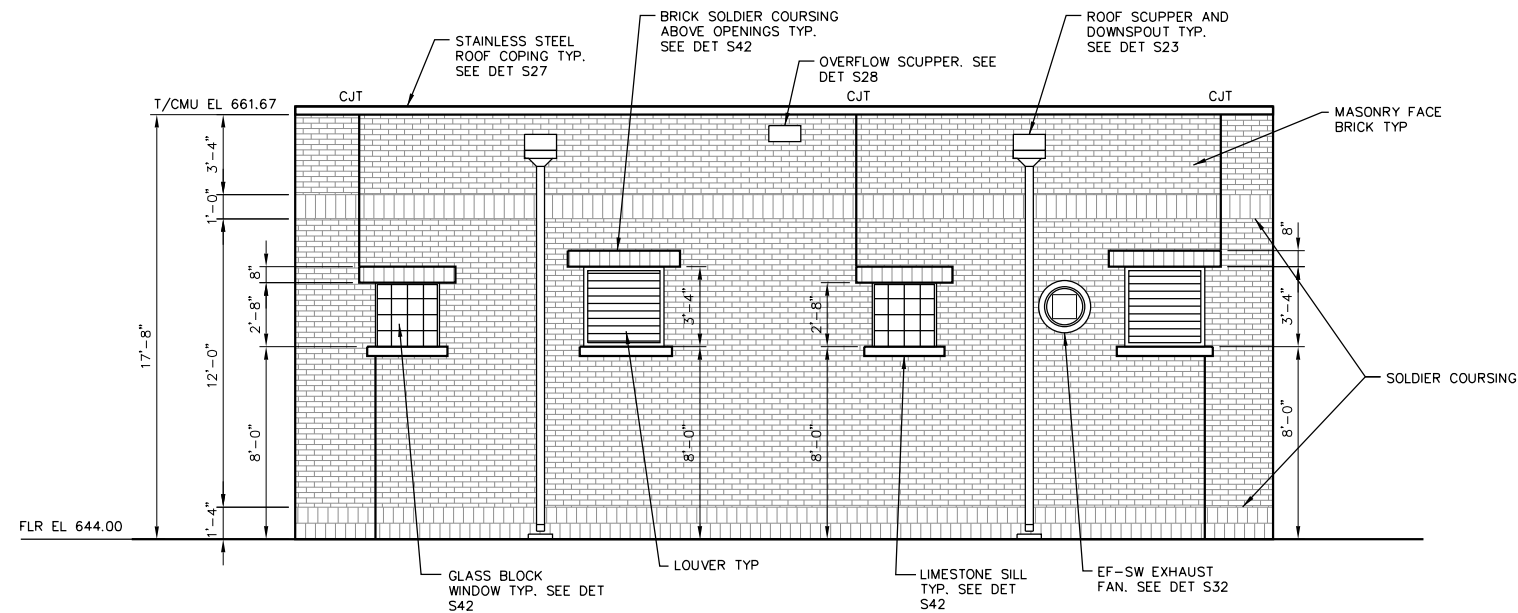
**PUMP STATION NO. 8 RELOCATION
ELEVATIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	69
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



WEST ELEVATION



SOUTH ELEVATION

SCALE: 0 4 8 FT.

S6



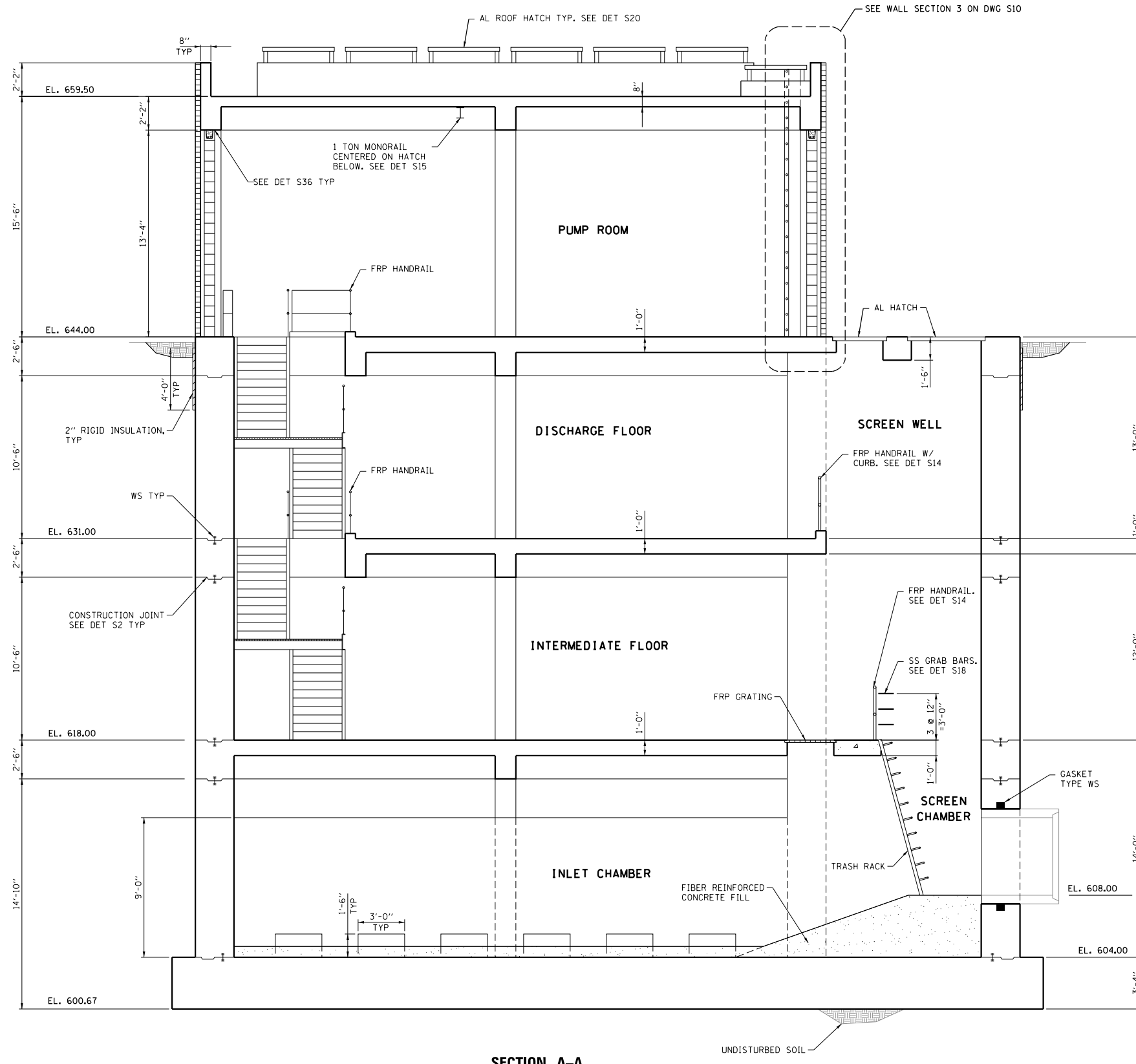
USER NAME =	DESIGNED - SDR	REVISED -
PLOT SCALE =	DRAWN - SDR	REVISED -
PLOT DATE =	CHECKED - TJB	REVISED -
	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION
ELEVATIONS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	70
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

FILE NAME =



SECTION A-A

SCALE: 0 4 8 FT.

S7



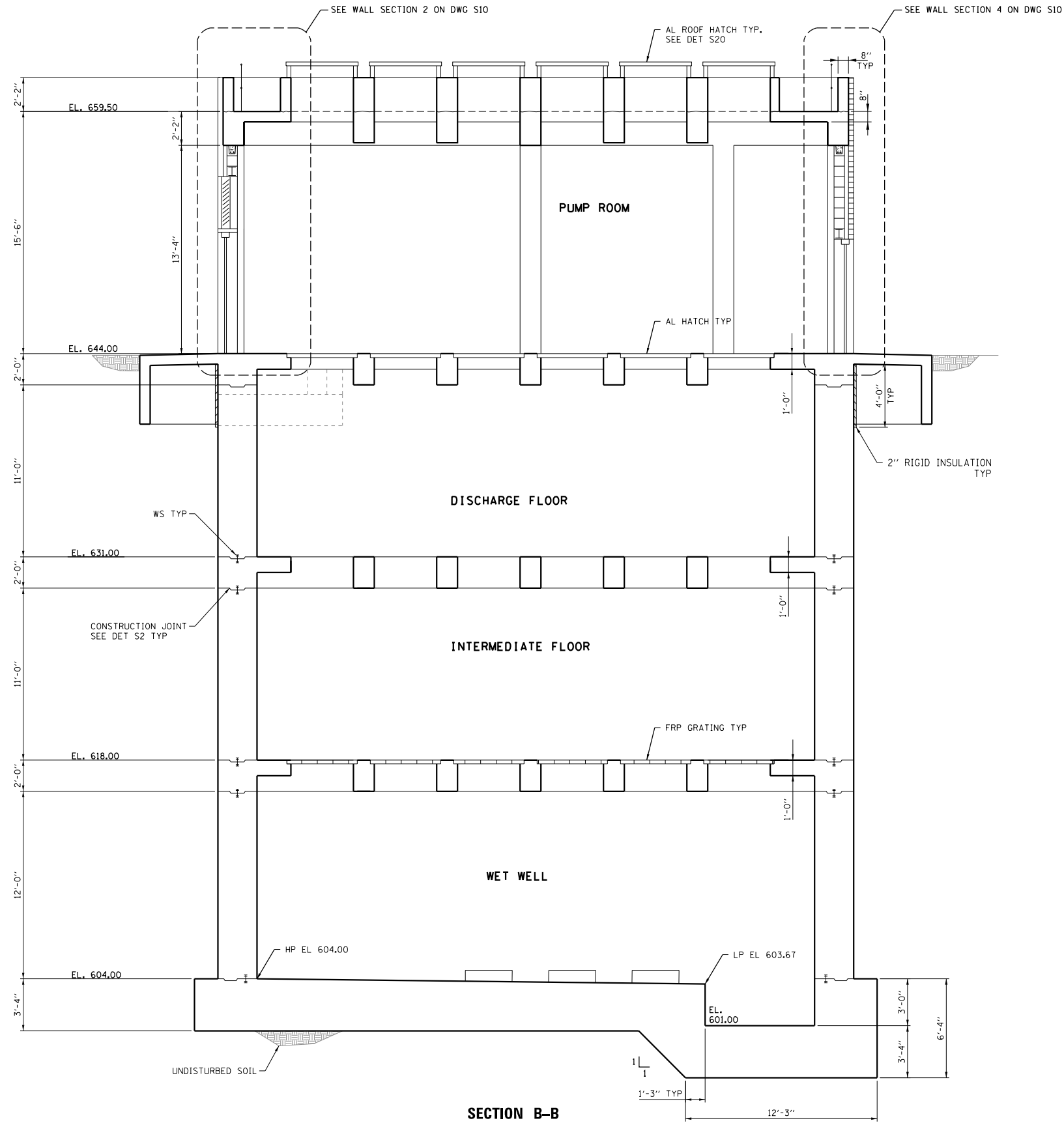
USER NAME =	DESIGNED - SDR	REVISED -
	DRAWN - SDR	REVISED -
PLOT SCALE =	CHECKED - TJB	REVISED -
PLOT DATE =	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION
STRUCTURAL SECTION

SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	71
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



SCALE: 0 4 8 FT.

S8



USER NAME =	DESIGNED - SDR	REVISED -
DRAWN - SDR	REVISED -	
CHECKED - TJB	REVISED -	
DATE - 09-29-17	REVISED -	

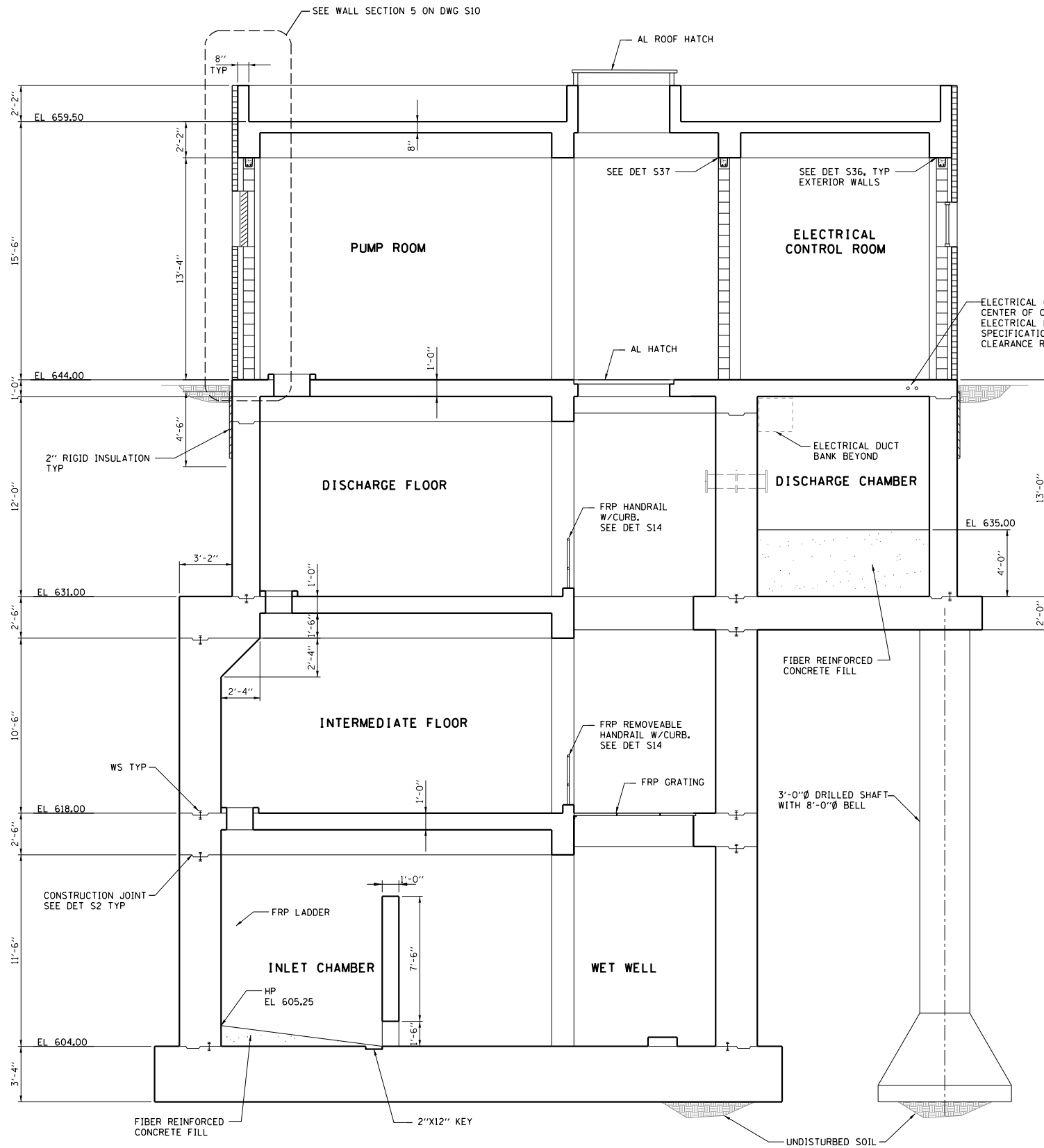
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PUMP STATION NO. 8 RELOCATION
STRUCTURAL SECTION**

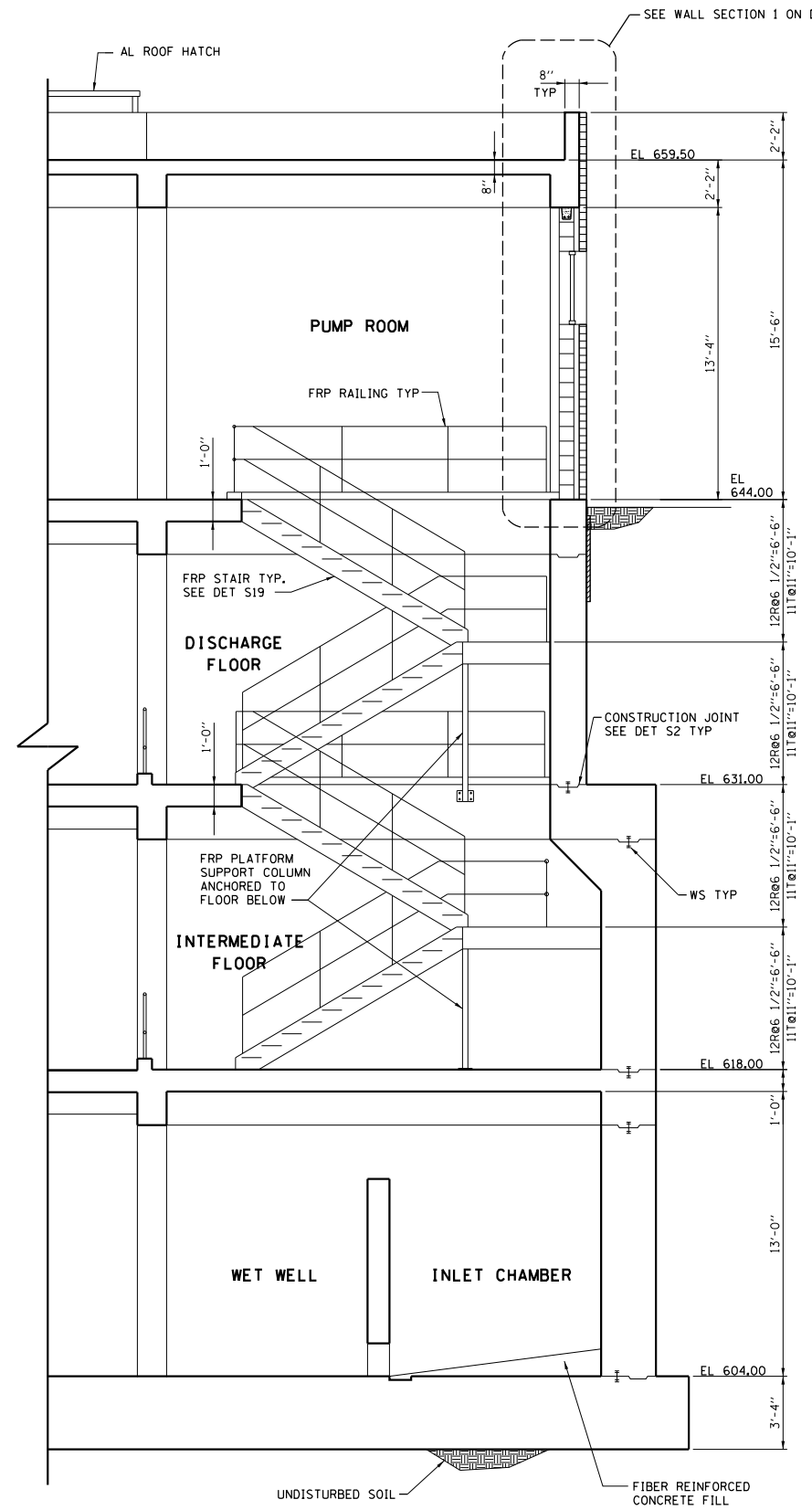
SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	72
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

FILE NAME =



SECTION C-C



SECTION D-D

SCALE: 0 4 8 FT.

S9



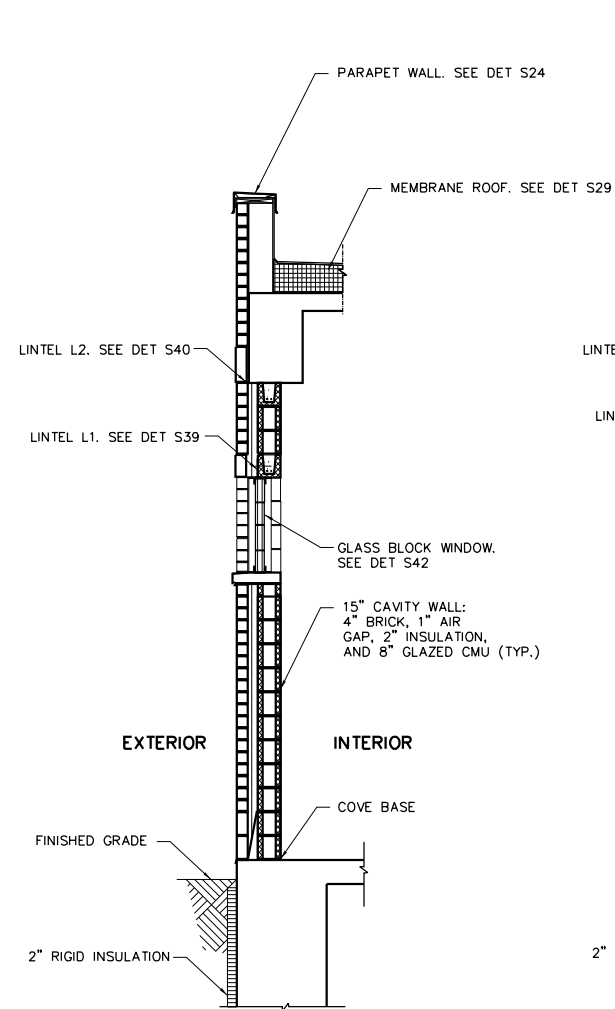
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PLOT SCALE =	DRAWN - SDR	REVISED -
PLOT DATE =	CHECKED - TJB	REVISED -
	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

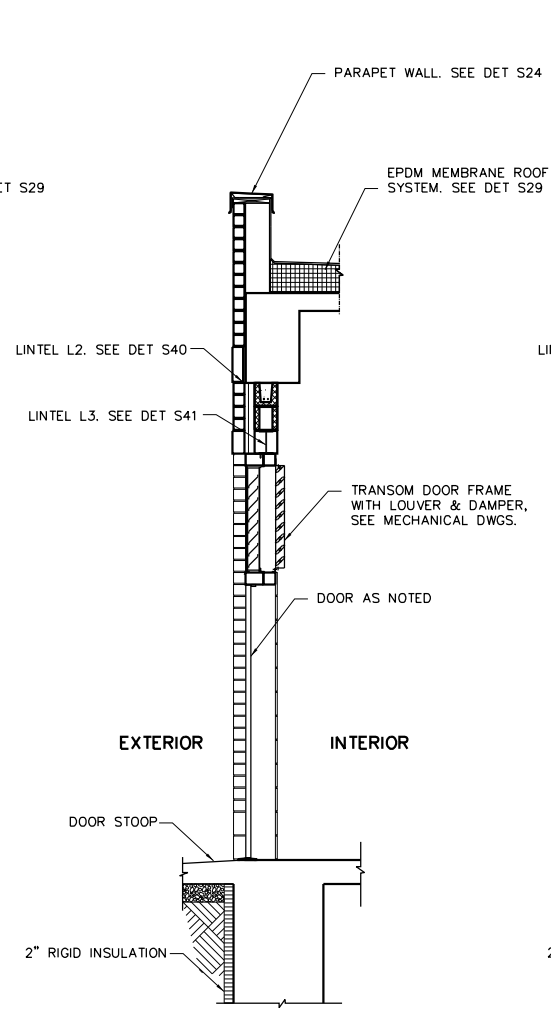
PUMP STATION NO. 8 RELOCATION
STRUCTURAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

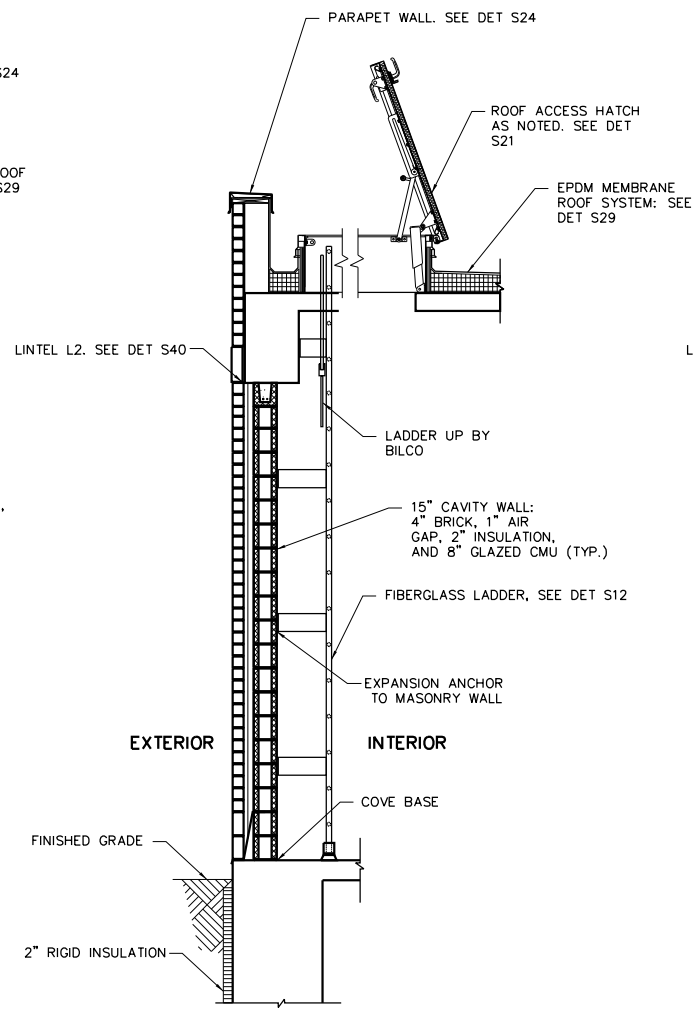
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	73
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



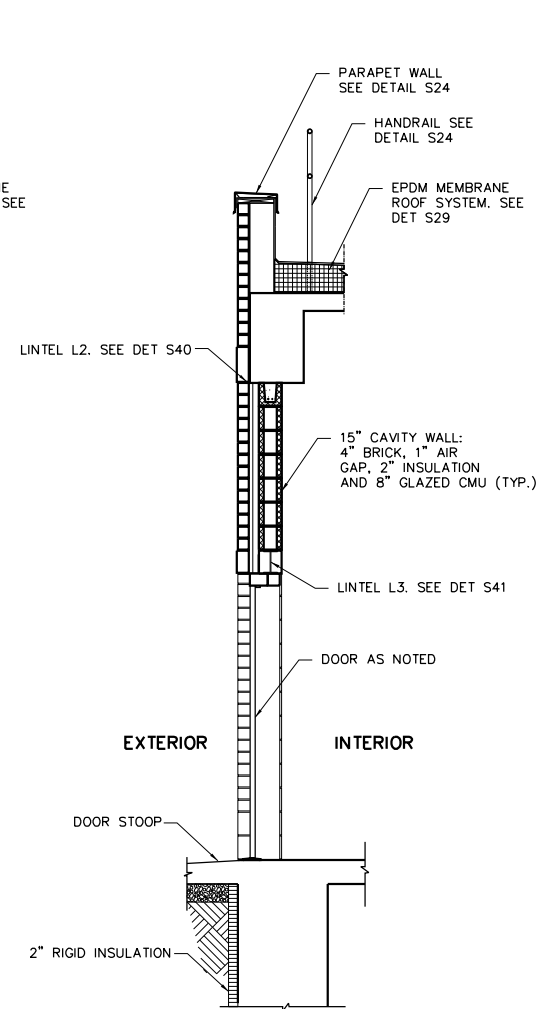
WALL SECTION 1



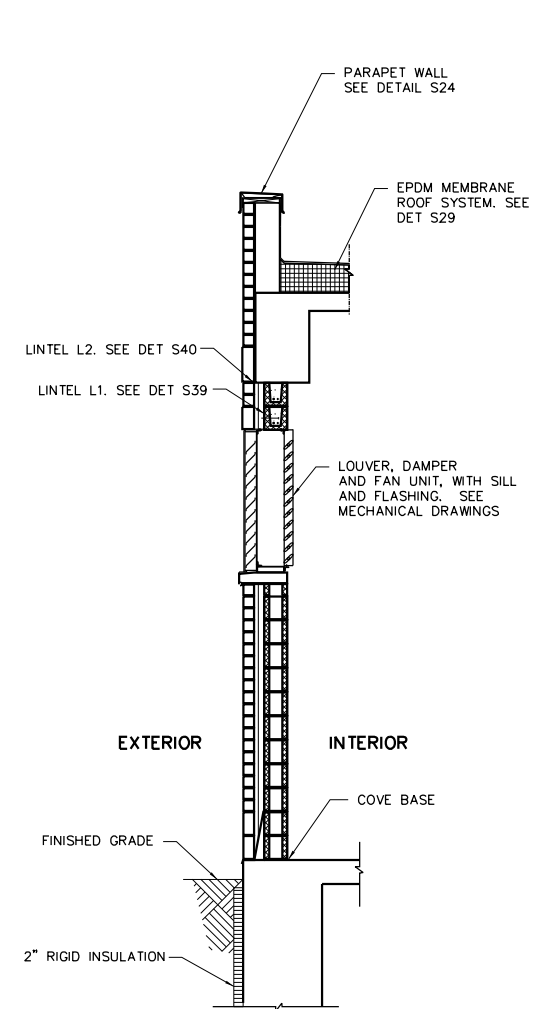
WALL SECTION 2



WALL SECTION 3



WALL SECTION 4



WALL SECTION 5

SCALE: 0 6 12 FT.

S10



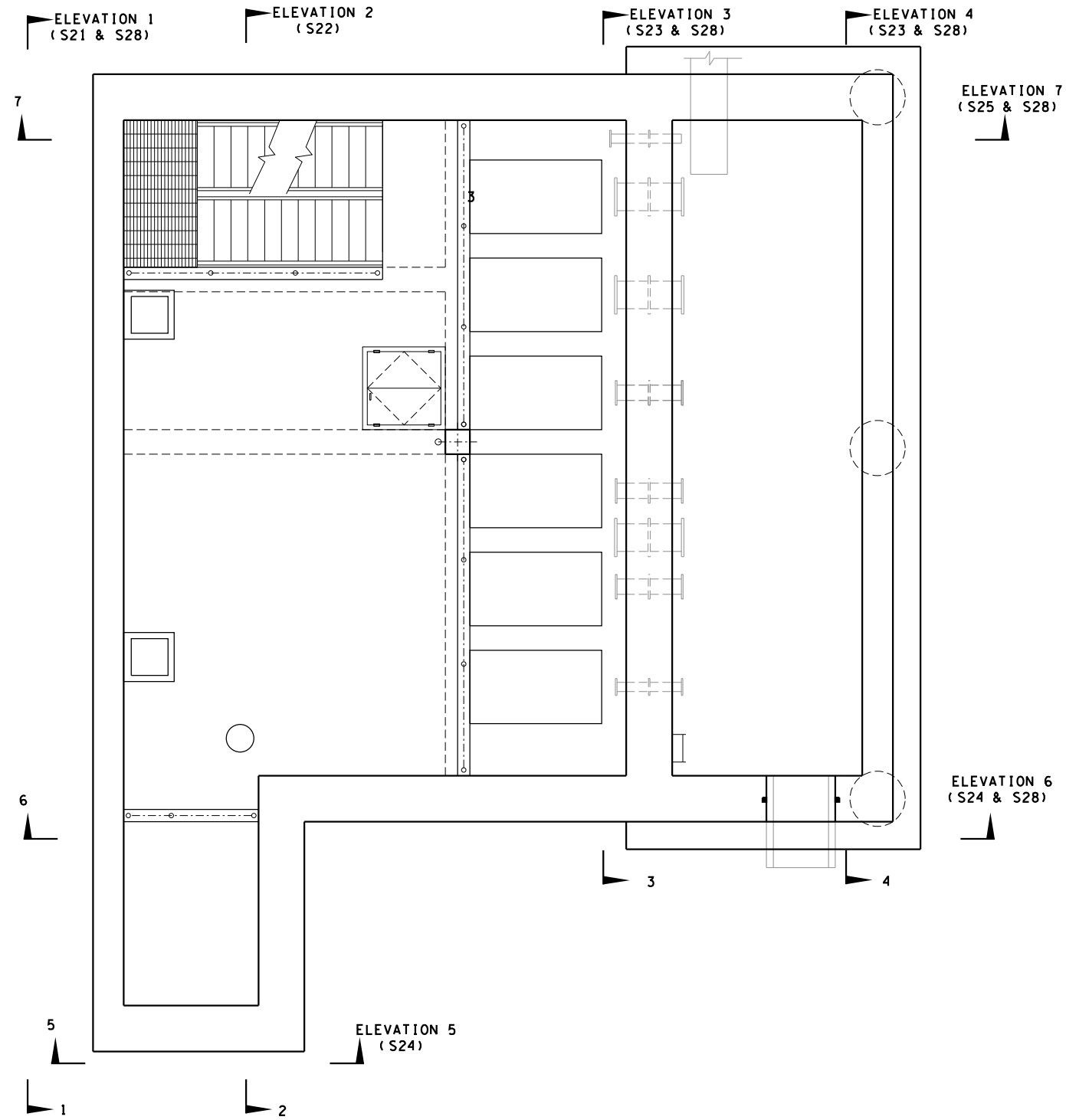
USER NAME =	DESIGNED - SDR	REVISED -
	DRAWN - SDR	REVISED -
PLOT SCALE =	CHECKED - TJB	REVISED -
PLOT DATE =	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION
WALL SECTIONS

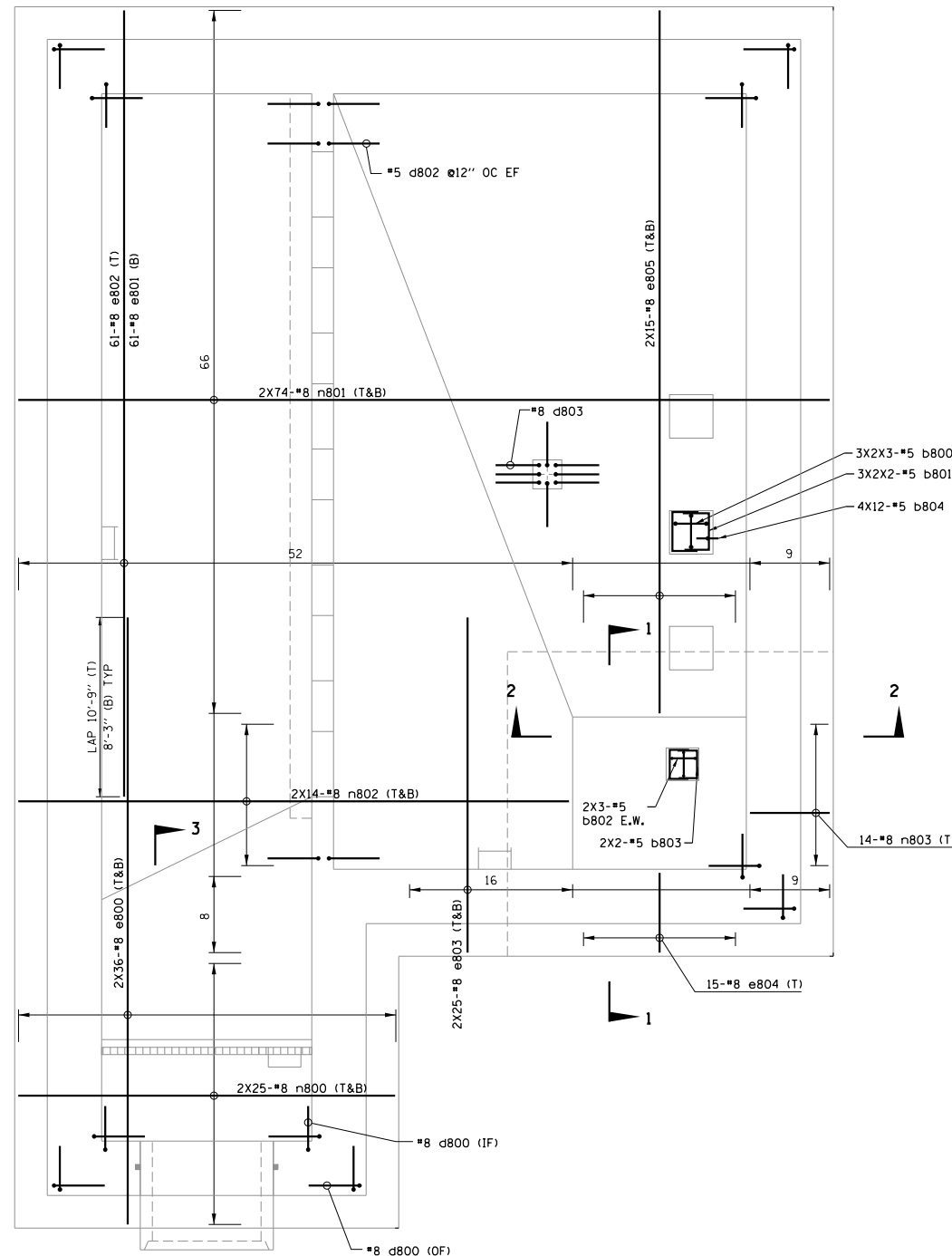
SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-I-I	COOK	156	74
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

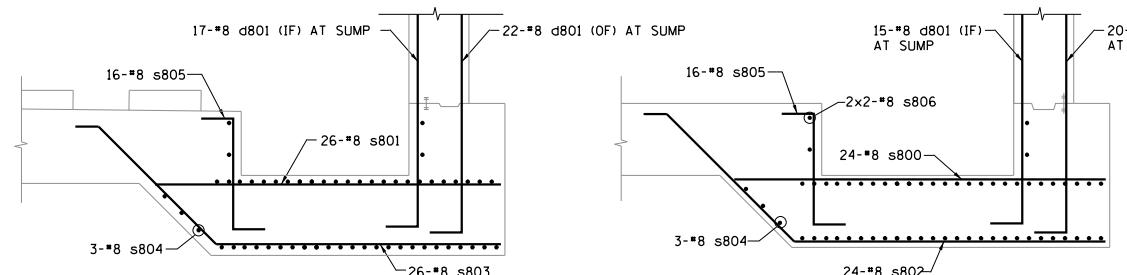
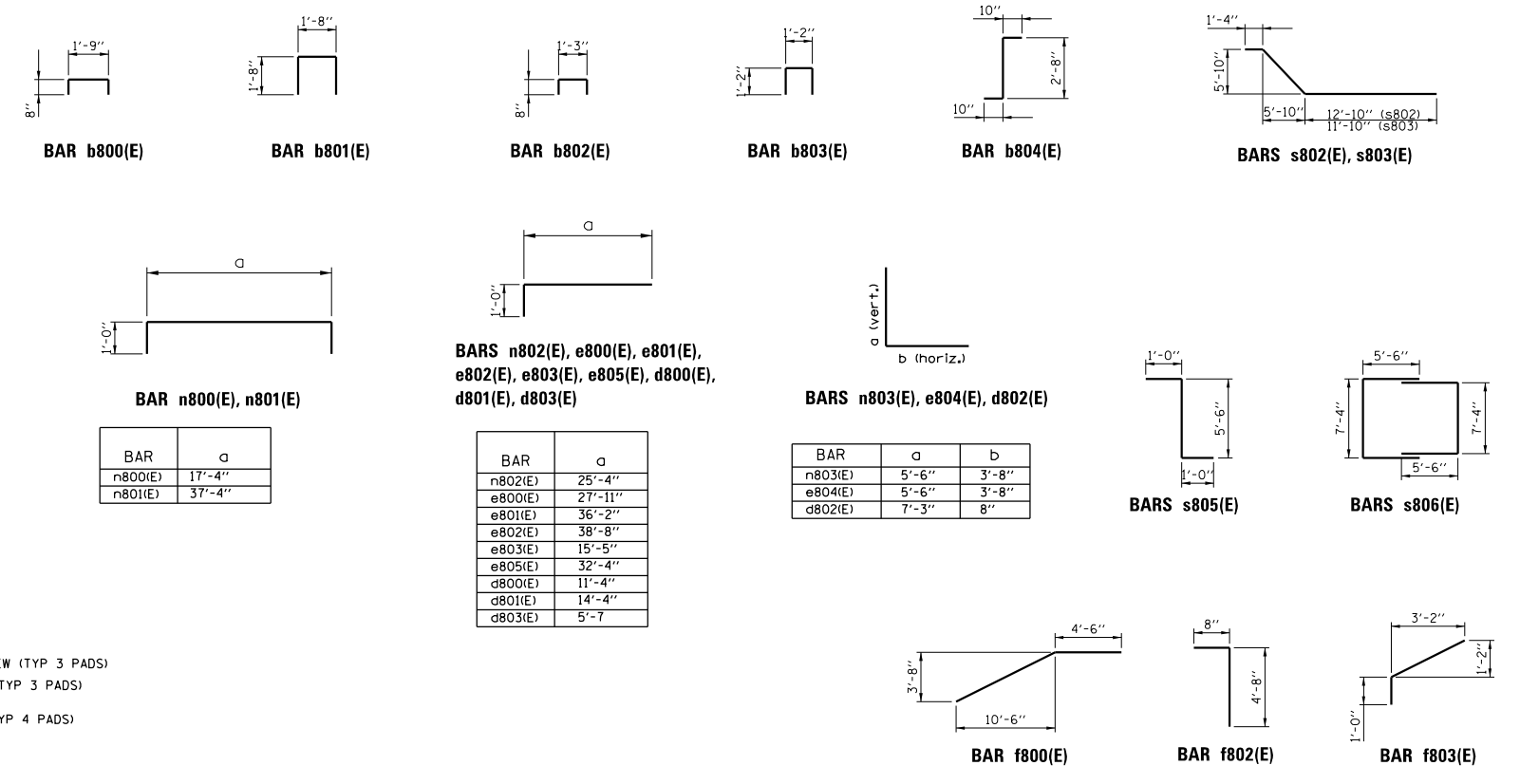


REINFORCEMENT KEY PLAN

FILE NAME :	USER NAME :	DESIGNED - SDR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PUMP STATION NO. 8 RELOCATION REINFORCEMENT DETAILS WALLS KEY PLAN		RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - SDR	REVISED -	US 14				86 S-1-I	COOK	156	75	
	PLOT SCALE :	CHECKED - TJB	REVISED -				NORTHWEST HIGHWAY		CONTRACT NO. 60C48		
	PLOT DATE :	DATE - 09-29-17	REVISED -				ILLINOIS FED. AID PROJECT				
SCALE:							SHEET	OF	SHEETS	STA.	TO STA.

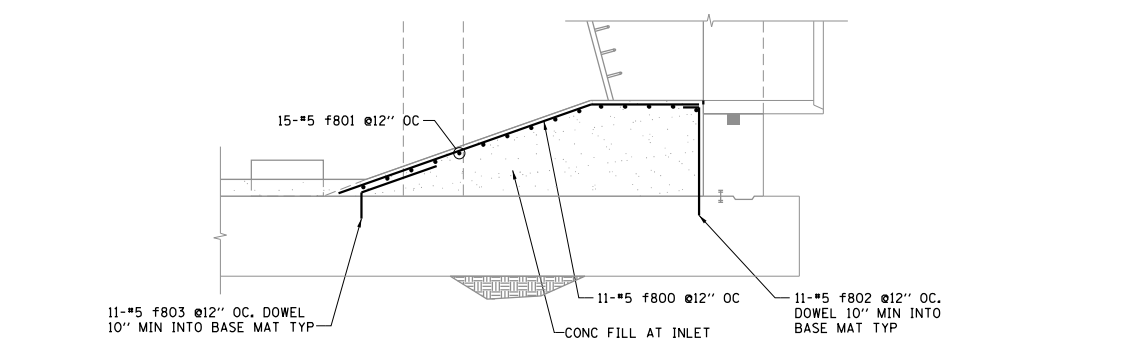


PLAN AT EL. 604.00



SECTION 1-1

SECTION 2-2



SECTION 3-3

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
b800(E)	18	#5	3'-1"	
b801(E)	12	#5	5'-0"	
b802(E)	6	#5	2'-7"	
b803(E)	4	#5	3'-6"	
b804(E)	48	#5	4'-4"	
d800(E)	598	#8	12'-4"	
d801(E)	74	#8	15'-4"	
d802(E)	46	#5	7'-11"	
d803(E)	8	#8	6'-7"	
n800(E)	50	#8	19'-4"	
n801(E)	148	#8	39'-4"	
n802(E)	28	#8	26'-4"	
n803(E)	14	#8	9'-2"	
e800(E)	72	#8	28'-11"	
e801(E)	61	#8	37'-2"	
e802(E)	61	#8	39'-8"	
e803(E)	50	#8	16'-5"	
e804(E)	15	#8	9'-2"	
e805(E)	30	#8	33'-4"	
s800(E)	24	#8	15'-2"	
s801(E)	26	#8	14'-2"	
s802(E)	24	#8	22'-5"	
s803(E)	26	#8	21'-5"	
s804(E)	6	#8	12'-6"	
s805(E)	32	#8	7'-6"	
s806(E)	4	#8	18'-4"	
f800(E)	11	#5	15'-8"	
f801(E)	15	#5	9'-4"	
f802(E)	11	#5	5'-4"	
f803(E)	11	#5	4'-5"	
REINFORCEMENT BARS EPOXY COATED			POUNDS	73,679
CONCRETE STRUCTURES			CU YD	258

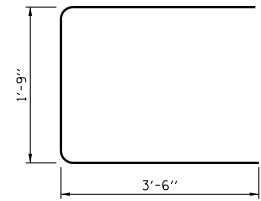
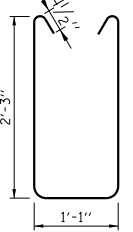
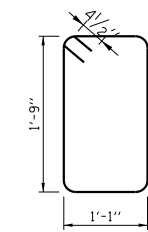
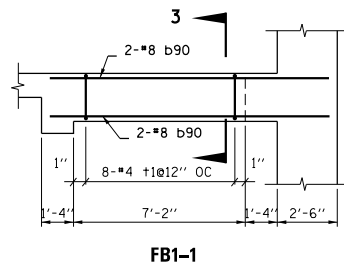
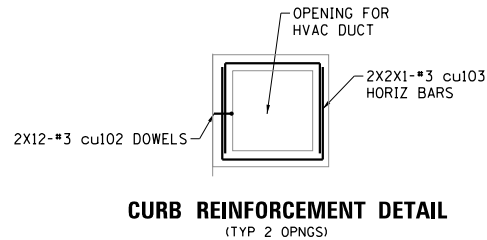


USER NAME =	DESIGNED - SDR	REVISED -
PLOT SCALE =	DRAWN - SDR	REVISED -
PLOT DATE =	CHECKED - TJB	REVISED -
	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION
REINFORCEMENT DETAILS
FLOOR SLAB @ EL. 604.00
SCALE: SHEET OF SHEETS STA. TO STA.

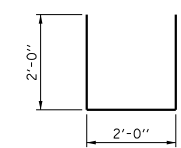
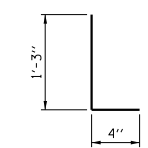
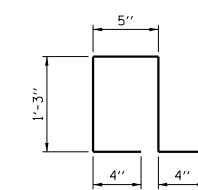
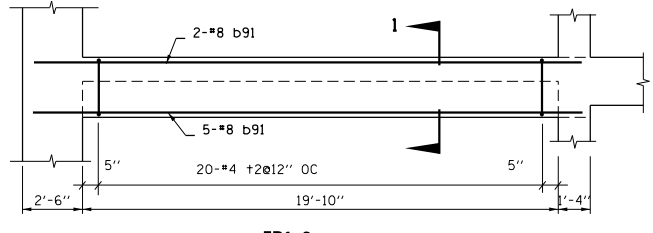
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	76
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



BAR t1(E)

BAR t2(E)

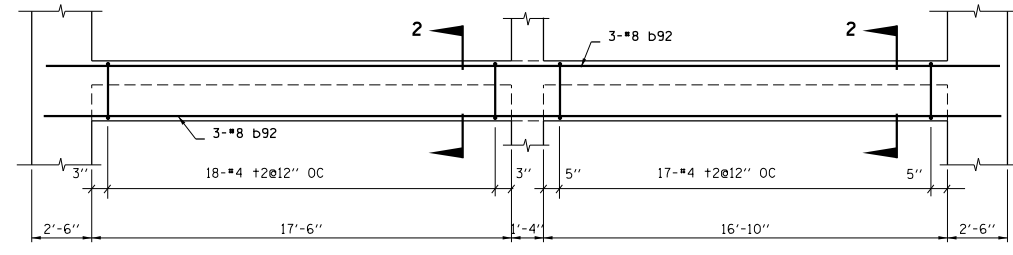
BAR t3(E)



BAR cu101(E)

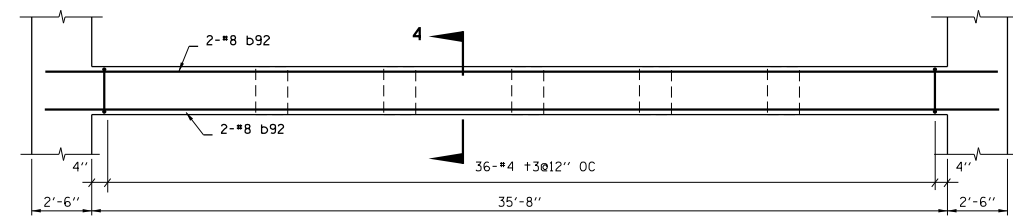
BAR cu102(E)

BAR cu103(E)

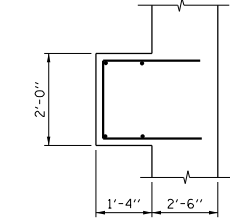
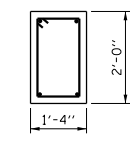
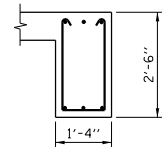
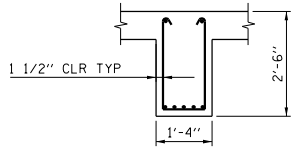


FB1-3

FB1-4



FB1-5

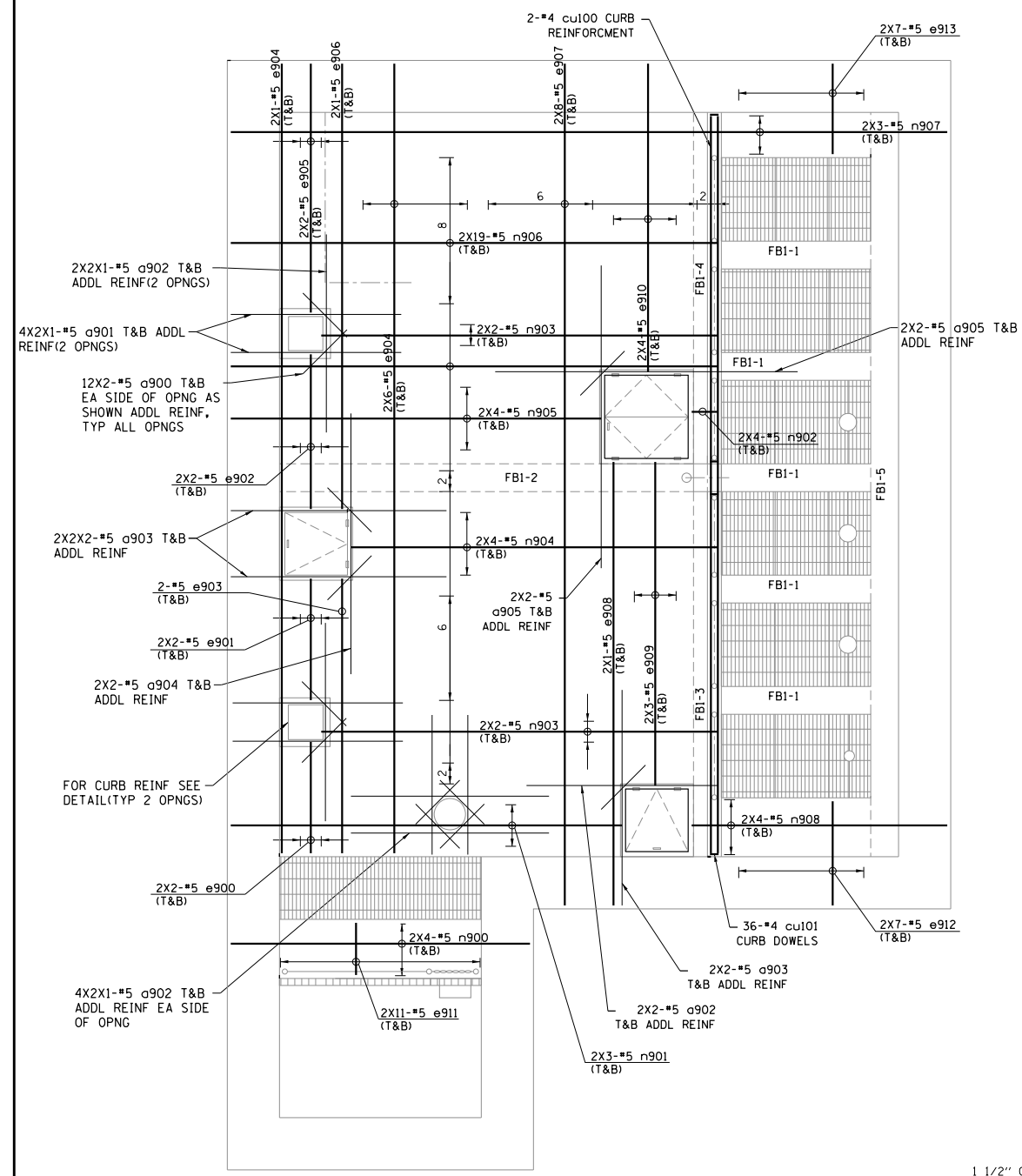


SECTION 1-1

SECTION 2-2

SECTION 3-3

SECTION 4-4



PLAN AT EL. 618.00

BILL OF MATERIALS

BAR NO.	SIZE	LENGTH	SHAPE	
b90(E)	20	#8	11'-10"	
b91(E)	7	#8	23'-2"	
b92(E)	10	#8	40'-0"	
t1(E)	40	#4	6'-5"	
t2(E)	55	#4	6'-2"	
t3(E)	36	#4	8'-9"	
n900(E)	8	#5	14'-4"	
n901(E)	6	#5	18'-9"	
n902(E)	8	#5	1'-3"	
n903(E)	8	#5	19'-0"	
n904(E)	8	#5	17'-7"	
n905(E)	8	#5	17'-9"	
n906(E)	38	#5	23'-4"	
n907(E)	6	#5	34'-4"	
n908(E)	8	#5	12'-3"	
e900(E)	4	#5	5'-4"	
e901(E)	4	#5	5'-10"	
e902(E)	4	#5	7'-5"	
e903(E)	2	#5	13'-2"	
e904(E)	14	#5	37'-10"	
e905(E)	4	#5	11'-11"	
e906(E)	2	#5	21'-4"	
e907(E)	16	#5	40'-0"	
e908(E)	2	#5	21'-3"	
e909(E)	6	#5	15'-6"	
e910(E)	8	#5	14'-9"	
e911(E)	22	#5	2'-6"	
e912(E)	14	#5	5'-0"	
e913(E)	14	#5	4'-4"	
cu100(E)	2	#4	35'-4"	
cu101(E)	36	#4	3'-7"	
cu102(E)	24	#3	1'-7"	
cu103(E)	4	#3	6'-0"	
a900(E)	24	#5	3'-0"	
a901(E)	8	#5	8'-2"	
a902(E)	16	#5	9'-6"	
a903(E)	12	#5	10'-4"	
a904(E)	4	#5	12'-6"	
a905(E)	8	#5	14'-6"	
REINFORCEMENT BARS EPOXY COATED			POUNDS	7,328
CONCRETE STRUCTURES			CU YD	40

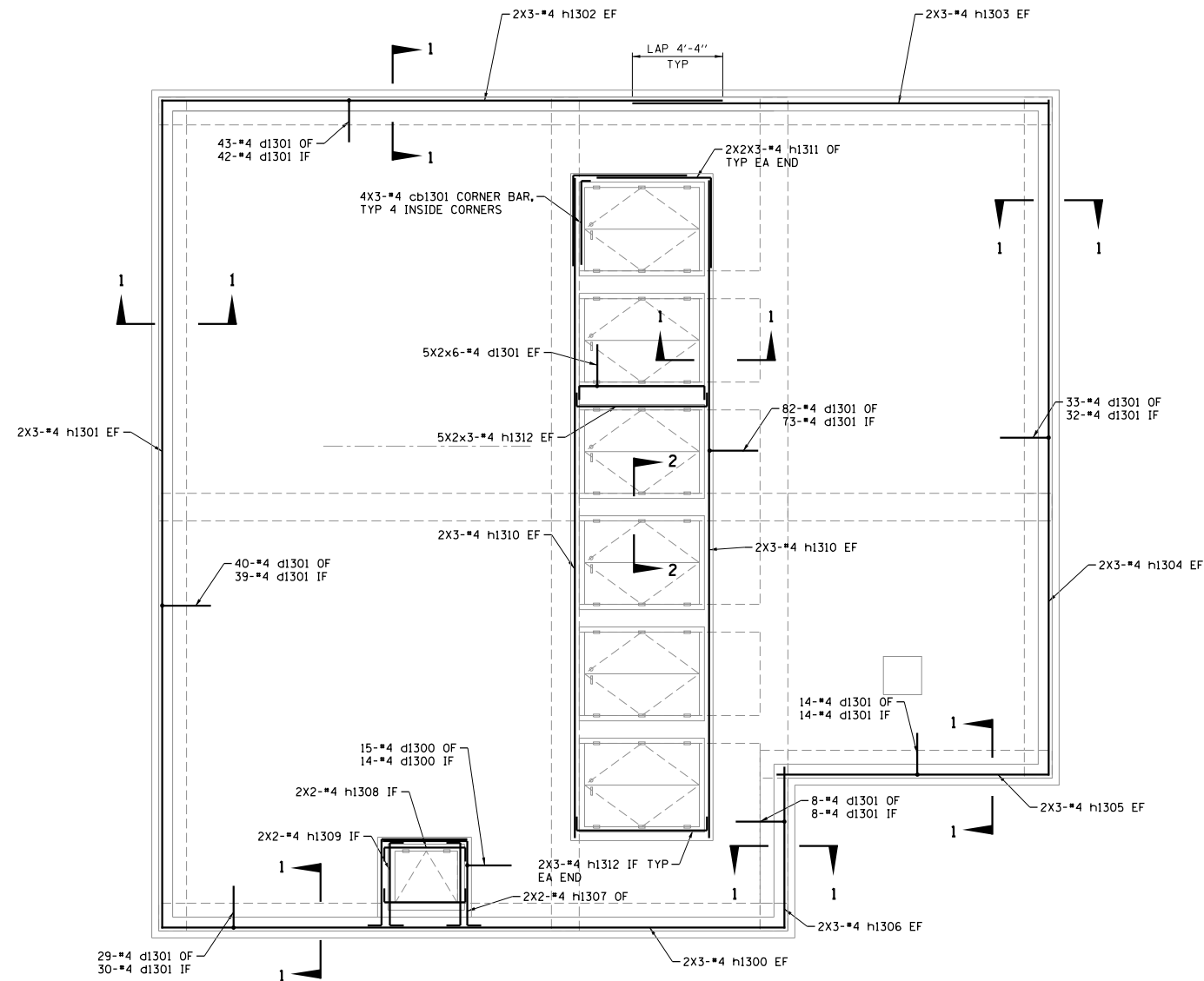


USER NAME =	DESIGNED - SDR	REVISED -
PLOT SCALE =	DRAWN - SDR	REVISED -
PLOT DATE =	CHECKED - TJB	REVISED -
	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

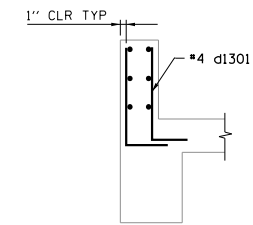
PUMP STATION NO. 8 RELOCATION
REINFORCEMENT DETAILS
FLOOR SLAB @ EL. 618.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	77
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

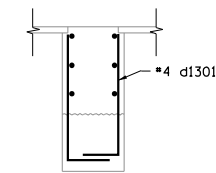


NOTE: ALL REINFORCEMENT SPACED AT 12" O.C.

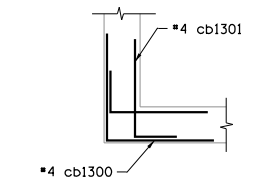
PLAN AT EL. 659.50



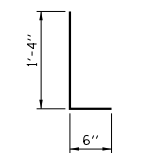
SECTION 1-1



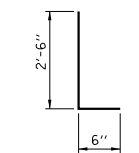
SECTION 2-2



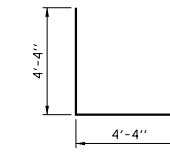
TYPICAL PARAPET CORNER



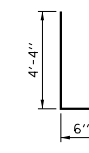
BAR d1300(E)



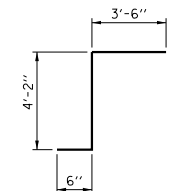
BAR d1301(E)



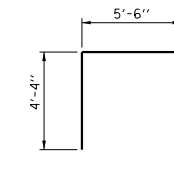
BAR cb1300(E)



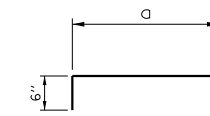
BAR cb1301(E)



BAR h1307(E)



BAR h1311(E)



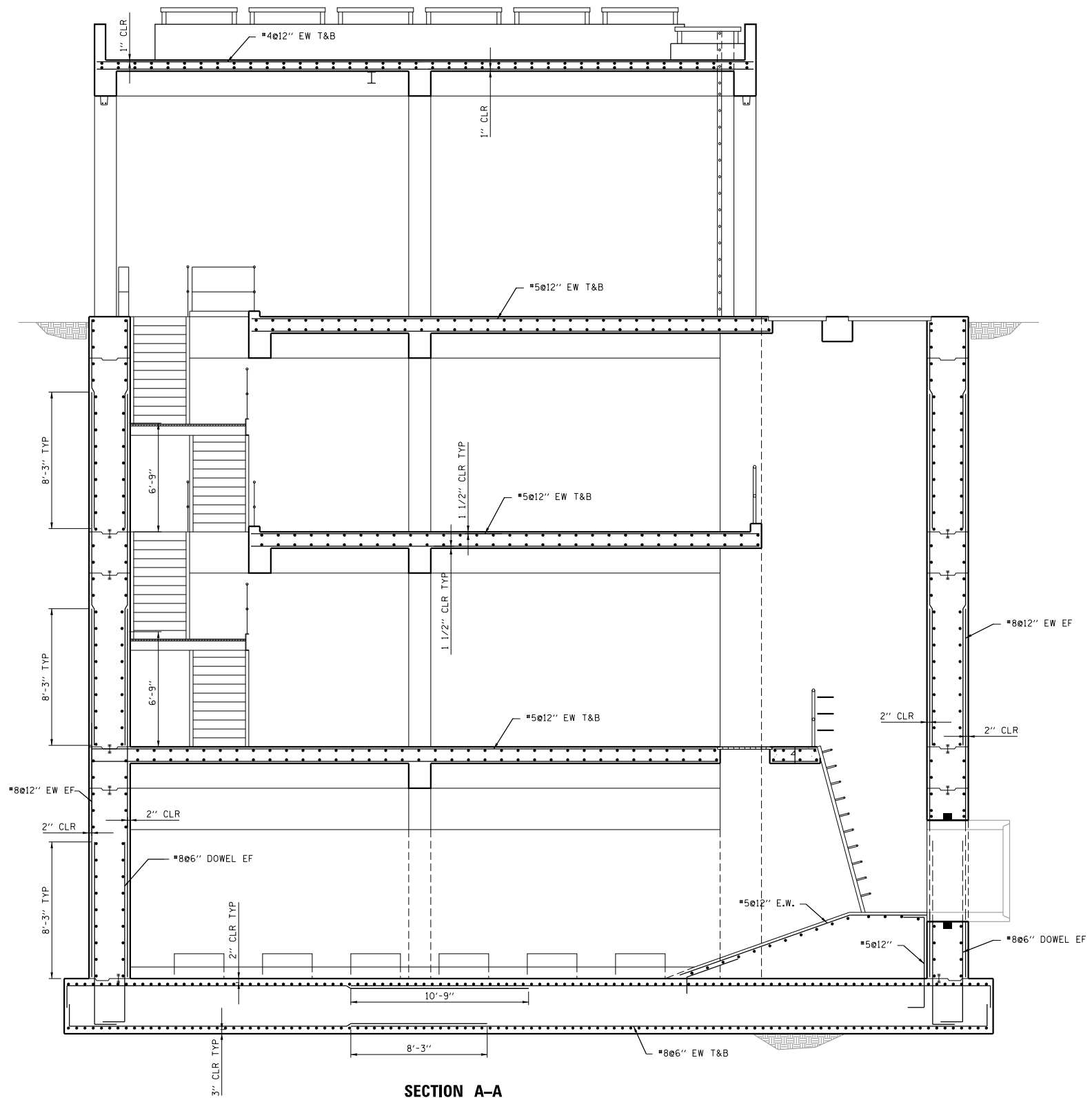
BARS h1308(E), h1309(E), h1312(E)

BAR	d
h1308(E)	4'-2"
h1309(E)	4'-2"
h1312(E)	6'-7"

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
h1300(E)	6	#4	29'-11"	┌
h1301(E)	6	#4	39'-9"	┌
h1302(E)	6	#4	26'-11"	┌
h1303(E)	6	#4	20'-0"	┌
h1304(E)	6	#4	32'-5"	┌
h1305(E)	6	#4	13'-1"	┌
h1306(E)	6	#4	7'-9"	┌
h1307(E)	4	#4	8'-2"	┌
h1308(E)	4	#4	5'-2"	┌
h1309(E)	4	#4	5'-2"	┌
h1310(E)	12	#4	31'-9"	┌
h1311(E)	12	#4	9'-10"	┌
h1312(E)	36	#4	7'-7"	┌
d1300(E)	29	#4	1'-10"	┌
d1301(E)	576	#4	3'-0"	┌
cb1300(E)	18	#4	8'-8"	┌
cb1301(E)	48	#4	4'-10"	┌
REINFORCEMENT BARS EPOXY COATED			POUNDS	2,695
CONCRETE STRUCTURES			CU YD	17

	USER NAME =	DESIGNED - SDR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PUMP STATION NO. 8 RELOCATION REINFORCEMENT DETAILS ROOF SLAB @ EL. 659.50			RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - SDR	REVISED -		US 14	86 S-I-I	COOK	156	81			
	PLOT DATE =	CHECKED - TJB	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			NORTHWEST HIGHWAY CONTRACT NO. 60C48				
		DATE - 09-29-17	REVISED -					ILLINOIS FED. AID PROJECT				



SECTION A-A



USER NAME =	DESIGNED - SDR	REVISED -
	DRAWN - SDR	REVISED -
PLOT SCALE =	CHECKED - TJB	REVISED -
PLOT DATE =	DATE - 09-29-17	REVISED -

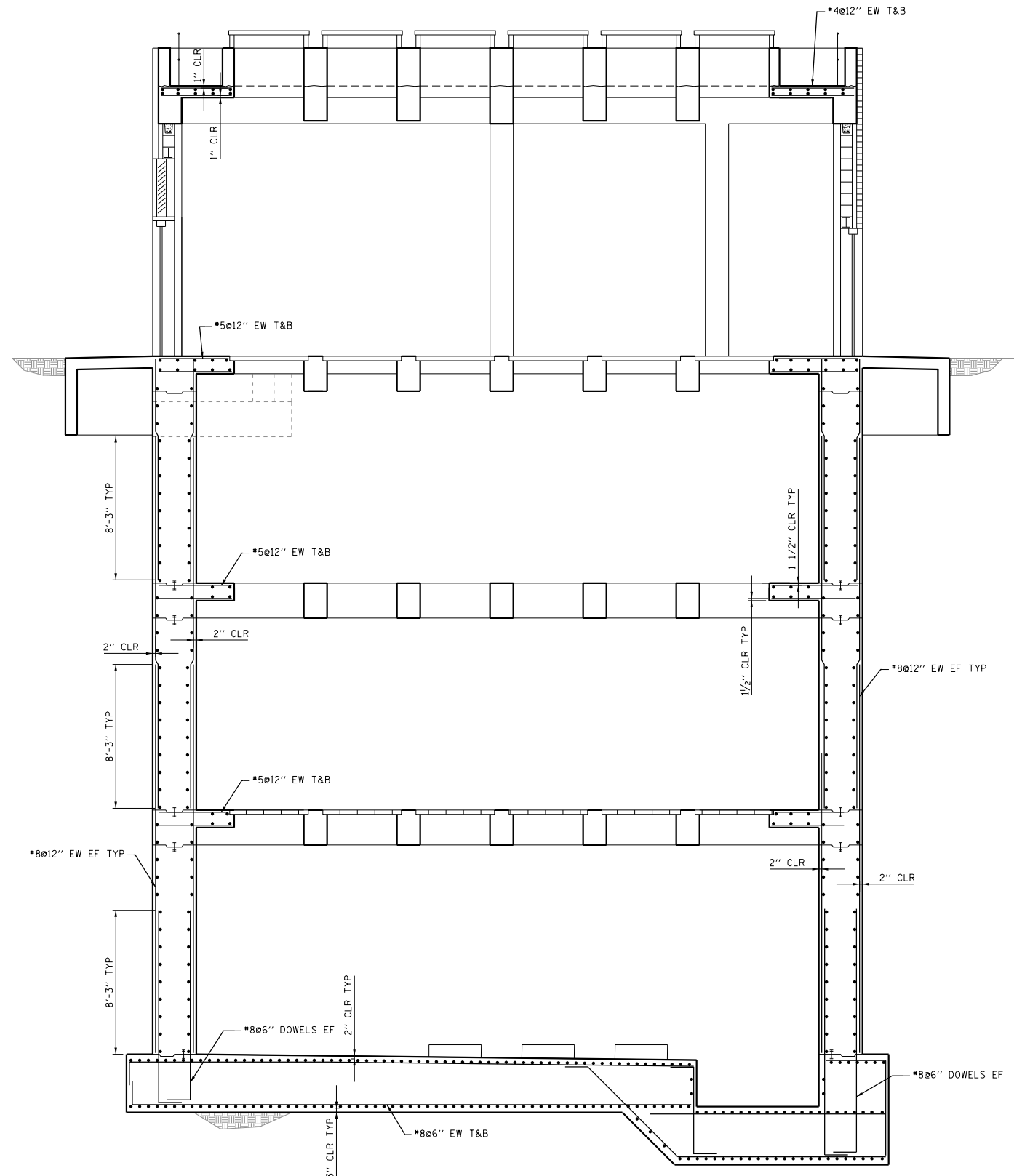
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION
REINFORCEMENT DETAILS SECTION

SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	82
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

FILE NAME =



SECTION B-B



USER NAME =	DESIGNED - SDR	REVISED -
	DRAWN - SDR	REVISED -
PLOT SCALE =	CHECKED - TJB	REVISED -
PLOT DATE =	DATE - 09-29-17	REVISED -

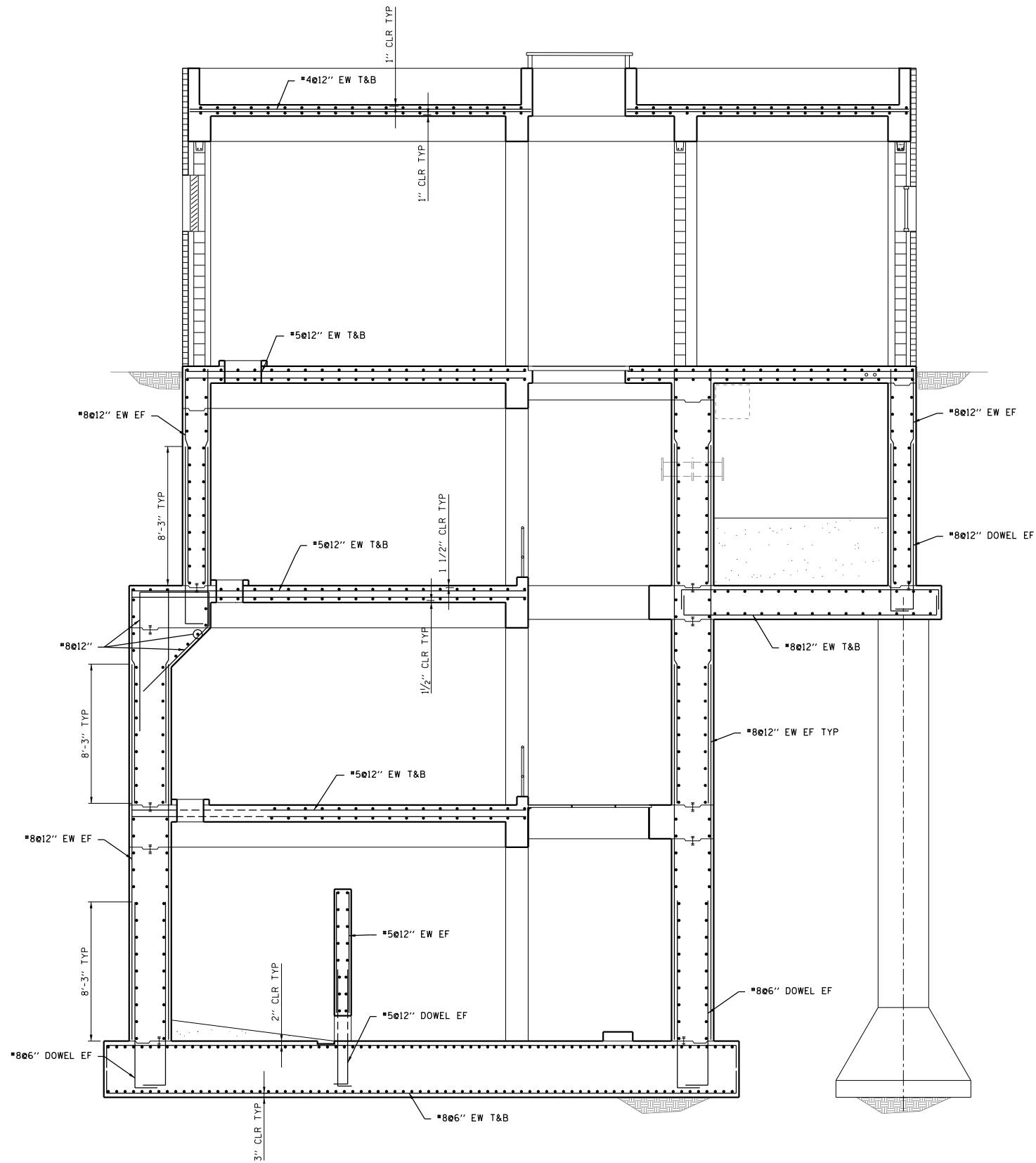
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PUMP STATION NO. 8 RELOCATION
REINFORCEMENT DETAILS SECTIONS**

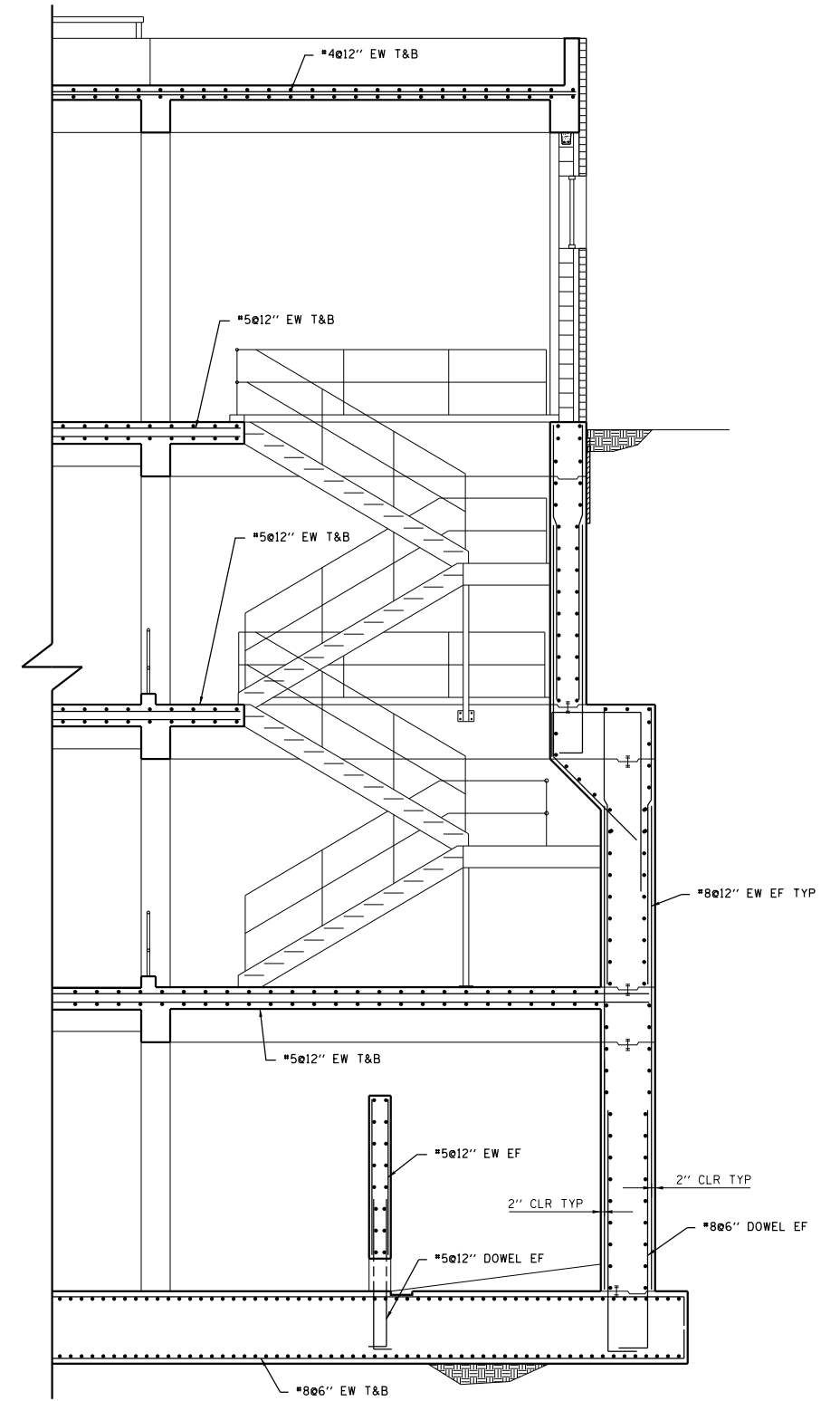
SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-1-I	COOK	156	83
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

FILE NAME =



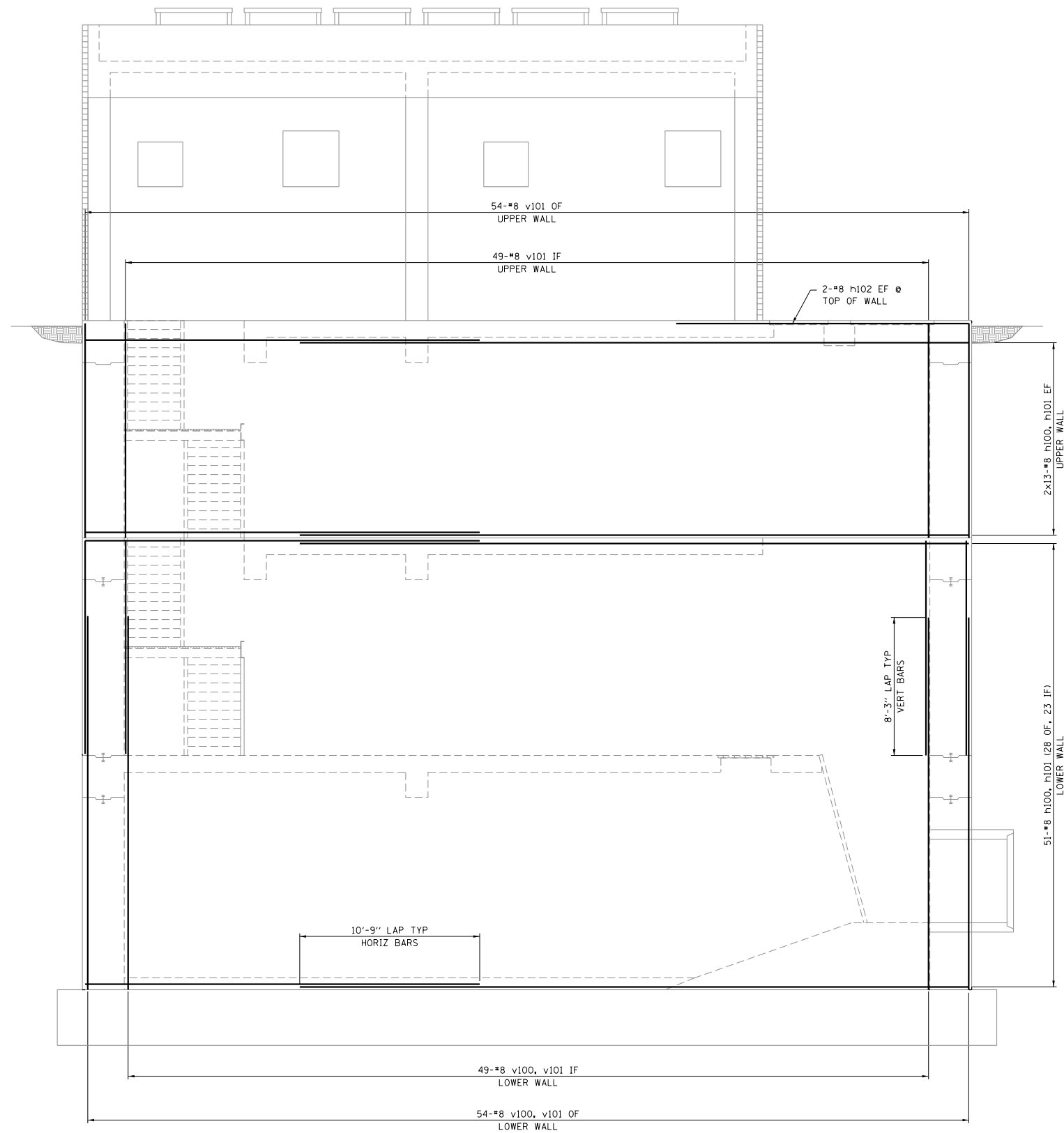
SECTION C-C



SECTION D-D

S20

	USER NAME =	DESIGNED - SDR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PUMP STATION NO. 8 RELOCATION REINFORCEMENT DETAILS SECTIONS			RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - SDR	REVISED -		US 14	86 S-I-I	COOK	156	84			
	PLOT DATE =	CHECKED - TJB	REVISED -		NORTHWEST HIGHWAY	CONTRACT NO. 60C48			ILLINOIS FED. AID PROJECT			
		DATE - 09-29-17	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	



NOTE: ALL REINFORCING BARS SPACED AT 12" OC.

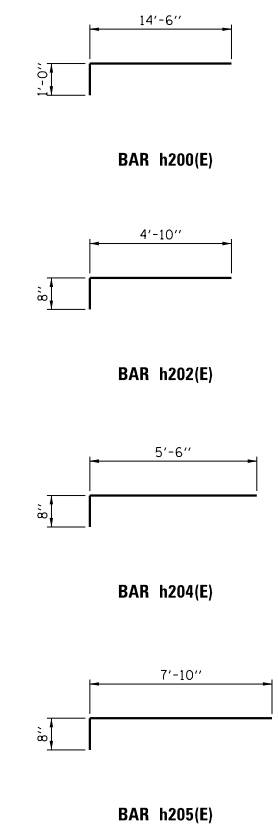
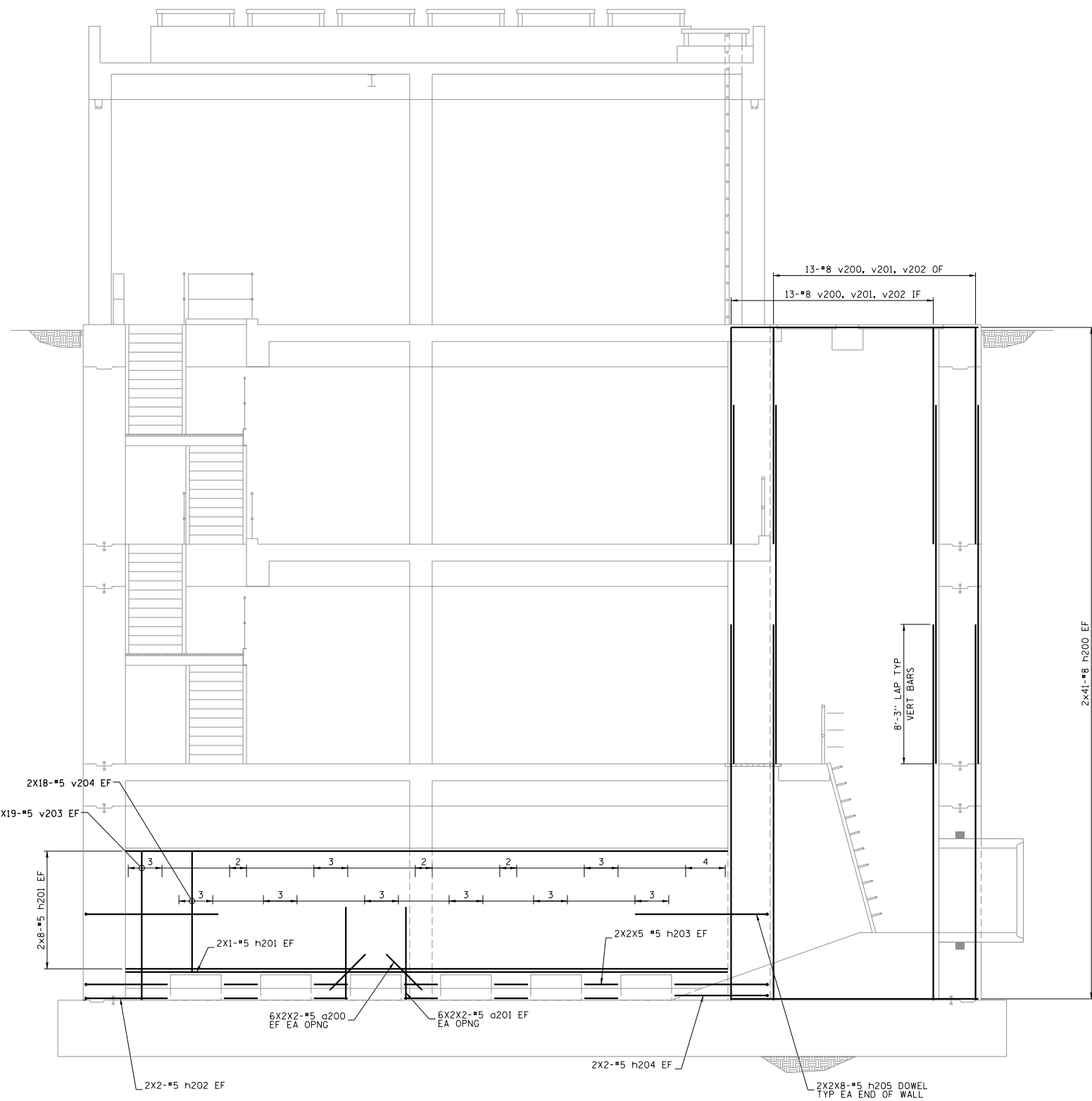
ELEVATION 1

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
h100(E)	77	#8	40'-0"	————
h101(E)	77	#8	23'-7"	————
h102(E)	2	#8	17'-6"	————
v100(E)	103	#8	22'-3"	————
v101(E)	206	#8	12'-10"	————
REINFORCEMENT BARS EPOXY COATED			POUNDS	26,300
CONCRETE STRUCTURES			CU YD	193

S21

FILE NAME :	USER NAME :	DESIGNED - SDR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PUMP STATION NO. 8 RELOCATION REINFORCEMENT DETAILS- WALL			RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
	PLOT SCALE :	DRAWN - SDR	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	US 14	86 S-1-I	COOK	156	85
	PLOT DATE :	CHECKED - TJB	REVISED -		NORTHWEST HIGHWAY				CONTRACT NO. 60C48						
		DATE - 09-29-17	REVISED -					ILLINOIS FED. AID PROJECT							



BILL OF MATERIALS

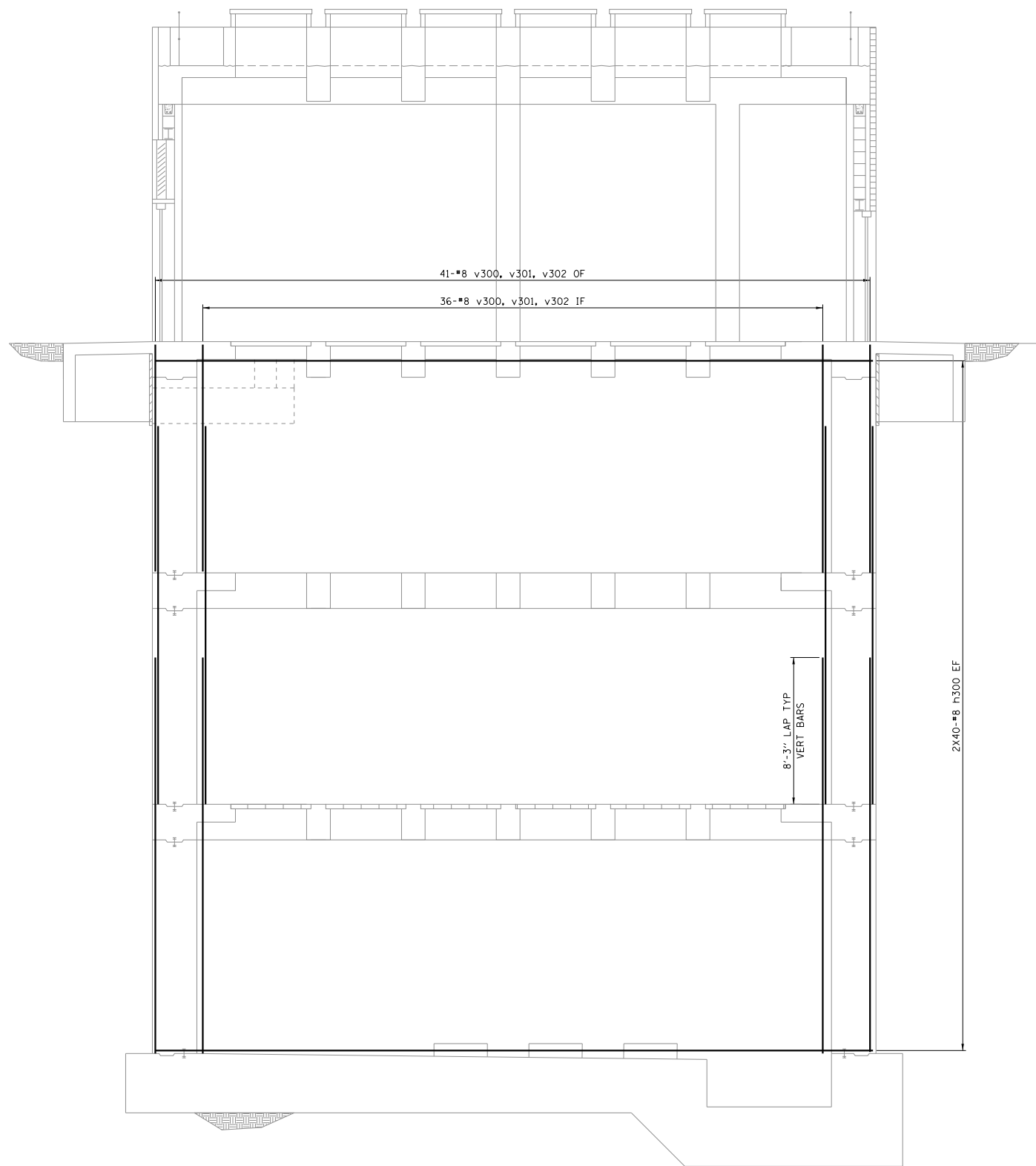
BAR	NO.	SIZE	LENGTH	SHAPE
h200(E)	82	#8	15'-6"	┌───┐
h201(E)	18	#5	35'-7"	┌───┐
h202(E)	4	#5	5'-6"	┌───┐
h203(E)	20	#5	2'-0"	┌───┐
h204(E)	4	#5	6'-2"	┌───┐
h205(E)	32	#5	8'-6"	┌───┐
v200(E)	26	#8	22'-3"	┌───┐
v201(E)	26	#8	21'-3"	┌───┐
v202(E)	26	#8	12'-10"	┌───┐
v203(E)	38	#5	8'-10"	┌───┐
v204(E)	36	#5	7'-2"	┌───┐
a200(E)	24	#5	3'-0"	┌───┐
a201(E)	24	#5	5'-6"	┌───┐
REINFORCEMENT BARS EPOXY COATED			POUNDS	9,178
CONCRETE STRUCTURES			CU YD	67

NOTE: ALL REINFORCING BARS SPACED AT 12" OC.

ELEVATION 2

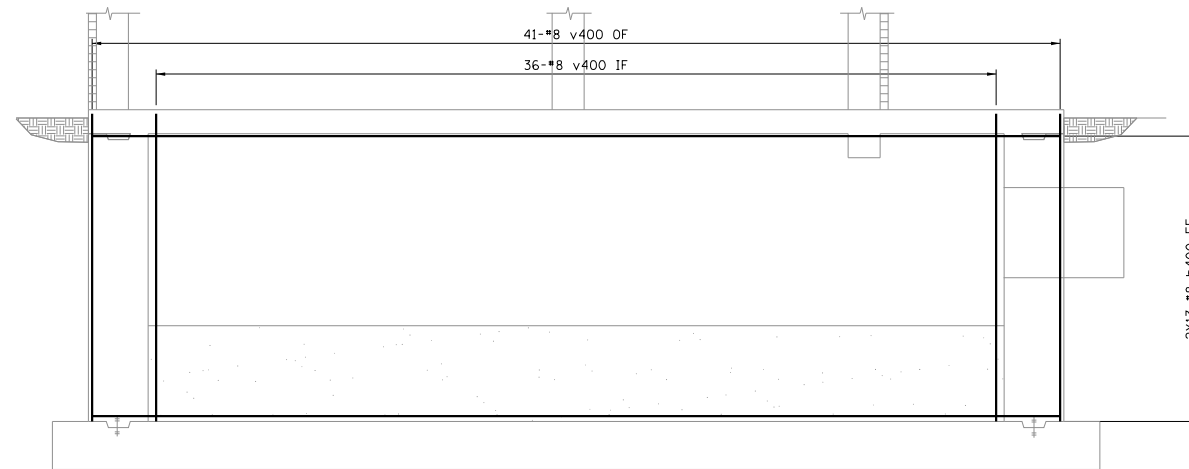
S22

	USER NAME =	DESIGNED - SDR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PUMP STATION NO. 8 RELOCATION REINFORCEMENT DETAILS - WALL		RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - SDR	REVISED -		US 14	86 S-I-I	COOK	156	86		
	PLOT DATE =	CHECKED - TJB	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		NORTHWEST HIGHWAY		CONTRACT NO. 60C48		
		DATE - 09-29-17	REVISED -				ILLINOIS FED. AID PROJECT				



NOTE: ALL REINFORCING BARS SPACED AT 12" OC.

ELEVATION 3



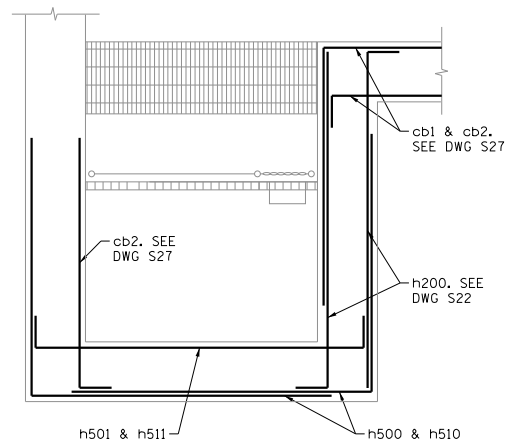
NOTE: ALL REINFORCING BARS SPACED AT 12" OC.

ELEVATION 4

BILL OF MATERIALS

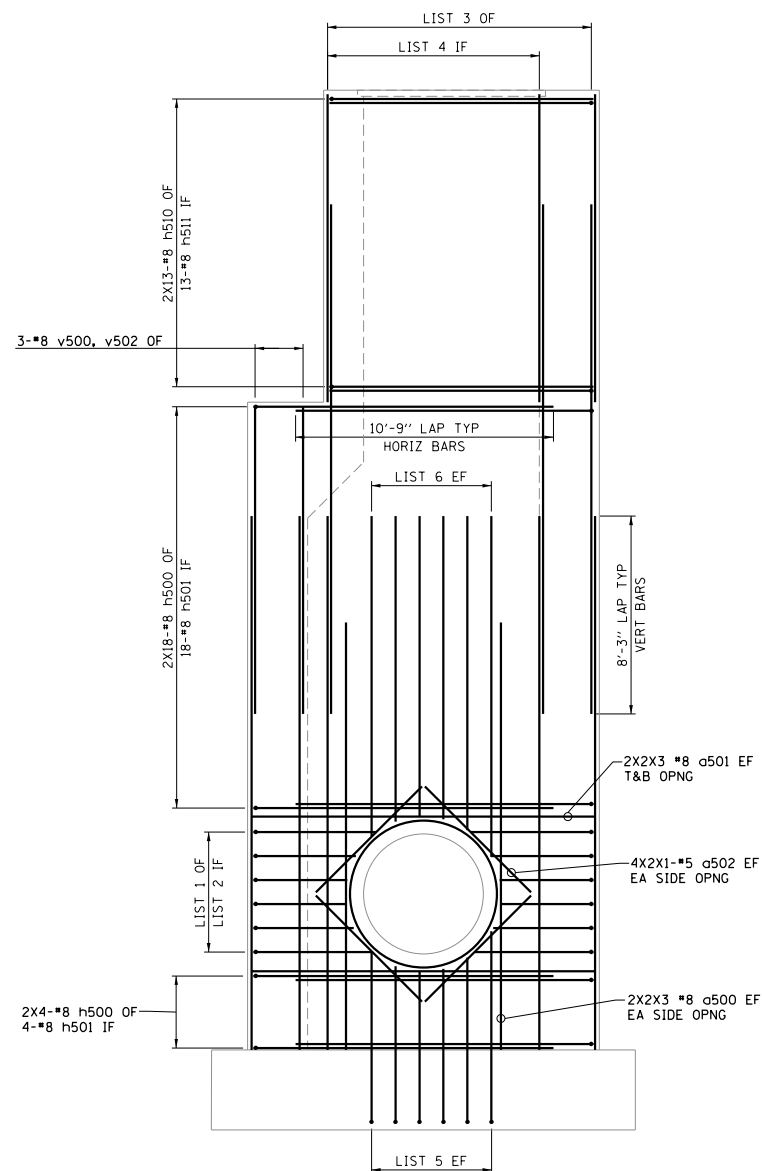
BAR	NO.	SIZE	LENGTH	SHAPE
h300(E)	80	#8	40'-0"	=====
v300(E)	77	#8	22'-3"	=====
v301(E)	77	#8	21'-3"	=====
v302(E)	77	#8	12'-10"	=====
h400(E)	26	#8	40'-0"	=====
v400(E)	77	#8	12'-10"	=====
REINFORCEMENT BARS EPOXY COATED			POUNDS	25,510
CONCRETE STRUCTURES			CU YD	159

S23



PLAN - TYPICAL HORIZONTAL BAR LAYOUT

- | | | | |
|--|---|---|---|
| LIST 1 | LIST 2 | LIST 3 | |
| 2-#8 h502
4-#8 h503
4-#8 h504
2-#8 h505 | 2-#8 h506
4-#8 h507
4-#8 h508
2-#8 h509 | 6-#8 v500
12-#8 v501
12-#8 v502 | |
| LIST 4 | LIST 5 | LIST 6 | |
| 4-#8 v500
8-#8 v501
10-#8 v502 | 2X1-#8 v503
2X2-#8 v504
2X1-#8 v505
2X1-#8 v506
2X1-#8 v507 | 2X2-#8 v508
2X3-#8 v509
2X1-#8 v510 | |
| LIST 7 | LIST 8 | LIST 9 | LIST 10 |
| 2-#8 h602
2-#8 h603
2-#8 h604
2-#8 h605 | 2-#8 h602
2-#8 h603
2-#8 h604
2-#8 h607 | 8-#8 v602
1-#8 v603
2-#8 v604
1-#8 v605
1-#8 v606
2-#8 v607
1-#8 v608 | 7-#8 v602
1-#8 v603
2-#8 v604
1-#8 v605
1-#8 v606
2-#8 v607
1-#8 v608 |



ELEVATION 5

NOTES:
1) ALL REINFORCING BARS SPACED AT 12" OC.
2) SEE PLAN ABOVE FOR TYPICAL HORIZONTAL BAR LAYOUT.

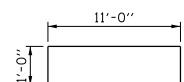
BARS h500(E), h502(E), h503(E), h504(E), h505(E), h510(E), h604(E), h605(E)

BAR	a
h500(E)	12'-6"
h502(E)	4'-11"
h503(E)	4'-2"
h504(E)	3'-11"
h505(E)	5'-1"
h510(E)	11'-0"
h604(E)	3'-5"
h605(E)	2'-10"

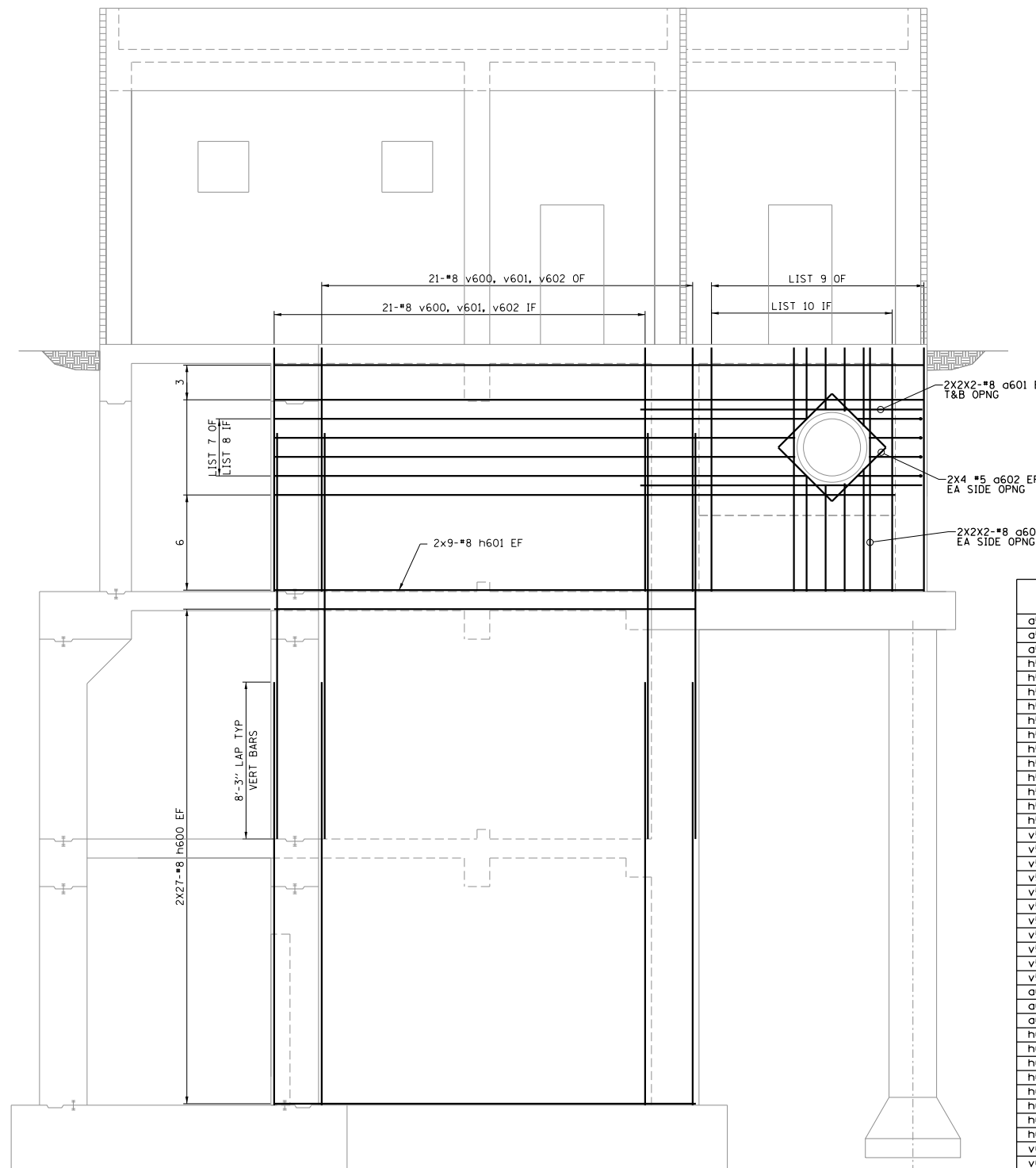
BARS h506(E), h507(E), h508(E), h509(E), h606(E), h607(E), v503(E), v504(E), v505(E), v506(E), v507(E)

BAR	a
h506(E)	4'-11"
h507(E)	4'-2"
h508(E)	3'-11"
h509(E)	5'-1"
h606(E)	3'-5"
h607(E)	2'-10"
v503(E)	7'-1"
v504(E)	6'-5"
v505(E)	6'-3"
v506(E)	6'-10"
v507(E)	7'-11"

BAR h501(E)



BAR h511(E)



ELEVATION 6

NOTE: ALL REINFORCING BARS SPACED AT 12" OC.

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
a500(E)	12	#8	17'-9"	
a501(E)	12	#8	14'-4"	
a502(E)	8	#5	6'-4"	
h500(E)	44	#8	23'-3"	
h501(E)	22	#8	16'-2"	
h502(E)	2	#8	15'-8"	
h503(E)	4	#8	14'-11"	
h504(E)	4	#8	14'-8"	
h505(E)	2	#8	15'-10"	
h506(E)	2	#8	5'-11"	
h507(E)	4	#8	5'-2"	
h508(E)	4	#8	4'-11"	
h509(E)	2	#8	6'-1"	
h510(E)	26	#8	21'-9"	
h511(E)	13	#8	13'-0"	
v500(E)	13	#8	22'-3"	
v501(E)	20	#8	21'-3"	
v502(E)	25	#8	12'-10"	
v503(E)	2	#8	8'-1"	
v504(E)	4	#8	7'-5"	
v505(E)	2	#8	7'-3"	
v506(E)	2	#8	7'-10"	
v507(E)	2	#8	8'-11"	
v508(E)	4	#8	13'-4"	
v509(E)	6	#8	12'-9"	
v510(E)	2	#8	14'-3"	
a600(E)	8	#8	12'-10"	
a601(E)	8	#8	14'-10"	
a602(E)	8	#5	4'-0"	
h600(E)	54	#8	22'-2"	
h601(E)	18	#8	34'-2"	
h602(E)	4	#8	28'-0"	
h603(E)	4	#8	27'-4"	
h604(E)	2	#8	14'-2"	
h605(E)	2	#8	13'-7"	
h606(E)	2	#8	4'-5"	
h607(E)	2	#8	3'-10"	
v600(E)	42	#8	22'-3"	
v601(E)	42	#8	21'-3"	
v602(E)	57	#8	12'-10"	
v603(E)	2	#8	6'-1"	
v604(E)	4	#8	5'-7"	
v605(E)	2	#8	6'-5"	
v606(E)	2	#8	3'-9"	
v607(E)	4	#8	3'-3"	
v608(E)	2	#8	4'-2"	
REINFORCEMENT BARS EPOXY COATED			POUNDS	24,096
CONCRETE STRUCTURES			CU YD	131



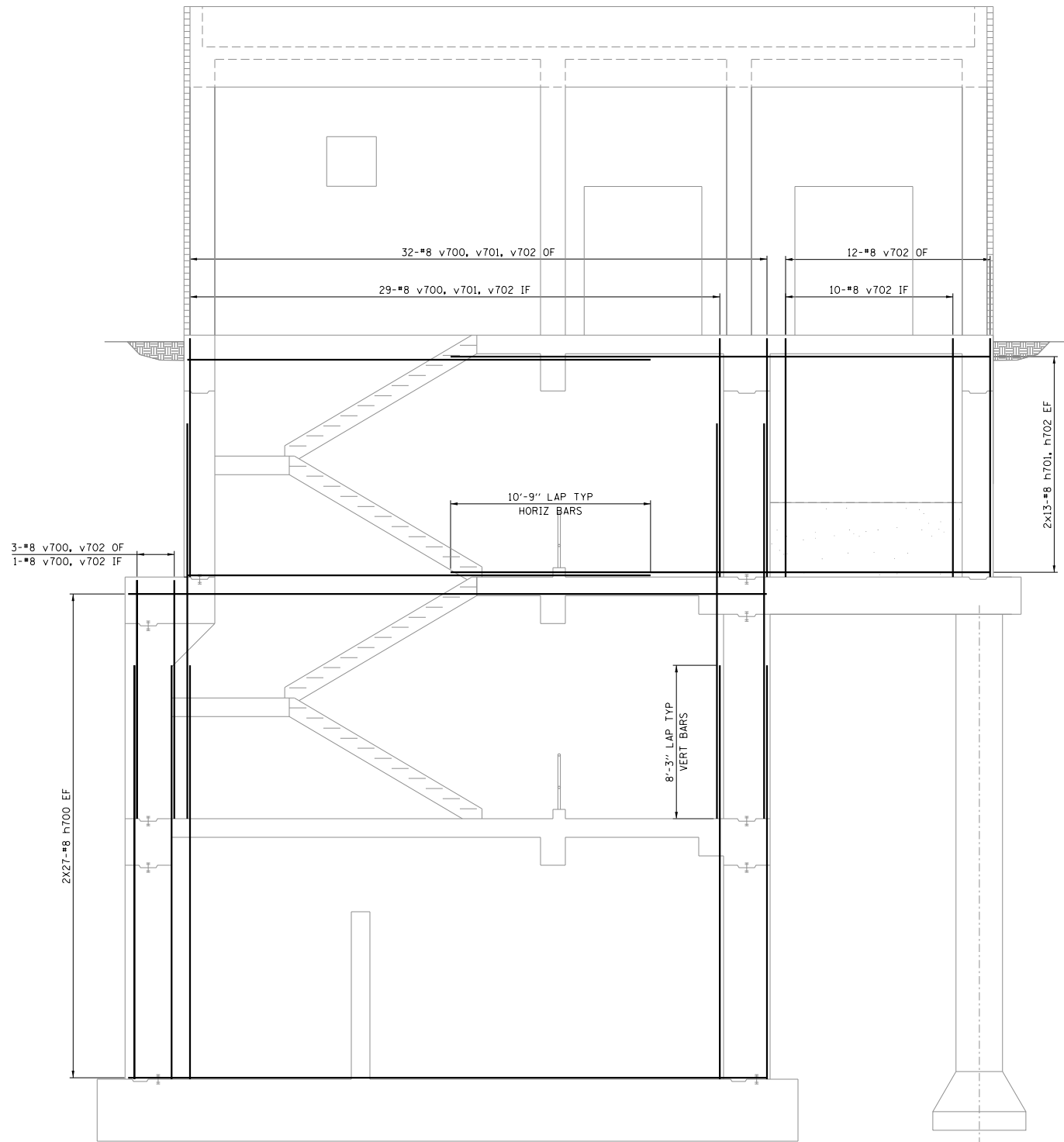
USER NAME =	DESIGNED - SDR	REVISED -
PLOT SCALE =	DRAWN - SDR	REVISED -
PLOT DATE =	CHECKED - TJB	REVISED -
	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION
REINFORCEMENT DETAILS - WALLS

SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-I-I	COOK	156	88
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



NOTE: ALL REINFORCING BARS SPACED AT 12" OC.

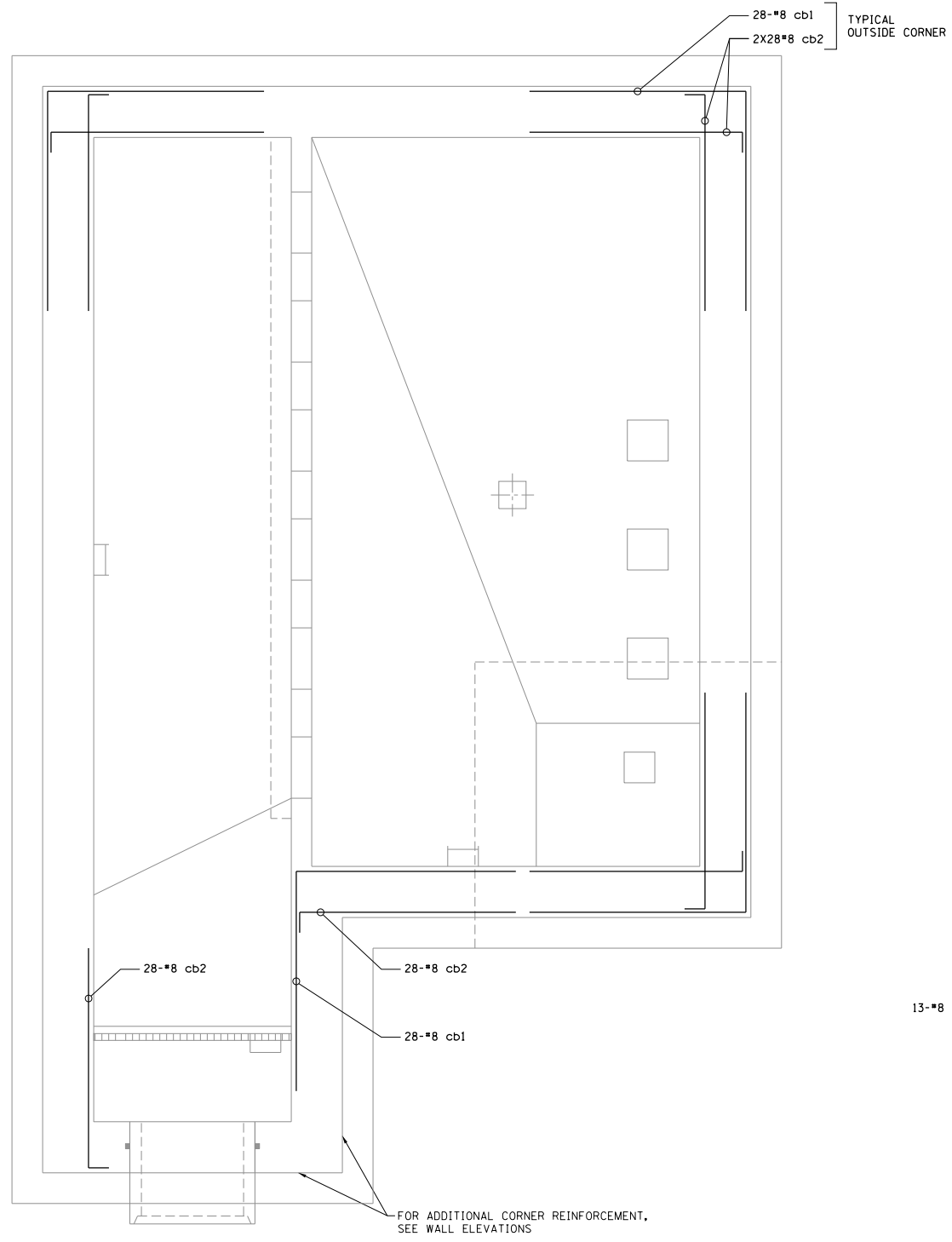
ELEVATION 7

BILL OF MATERIALS

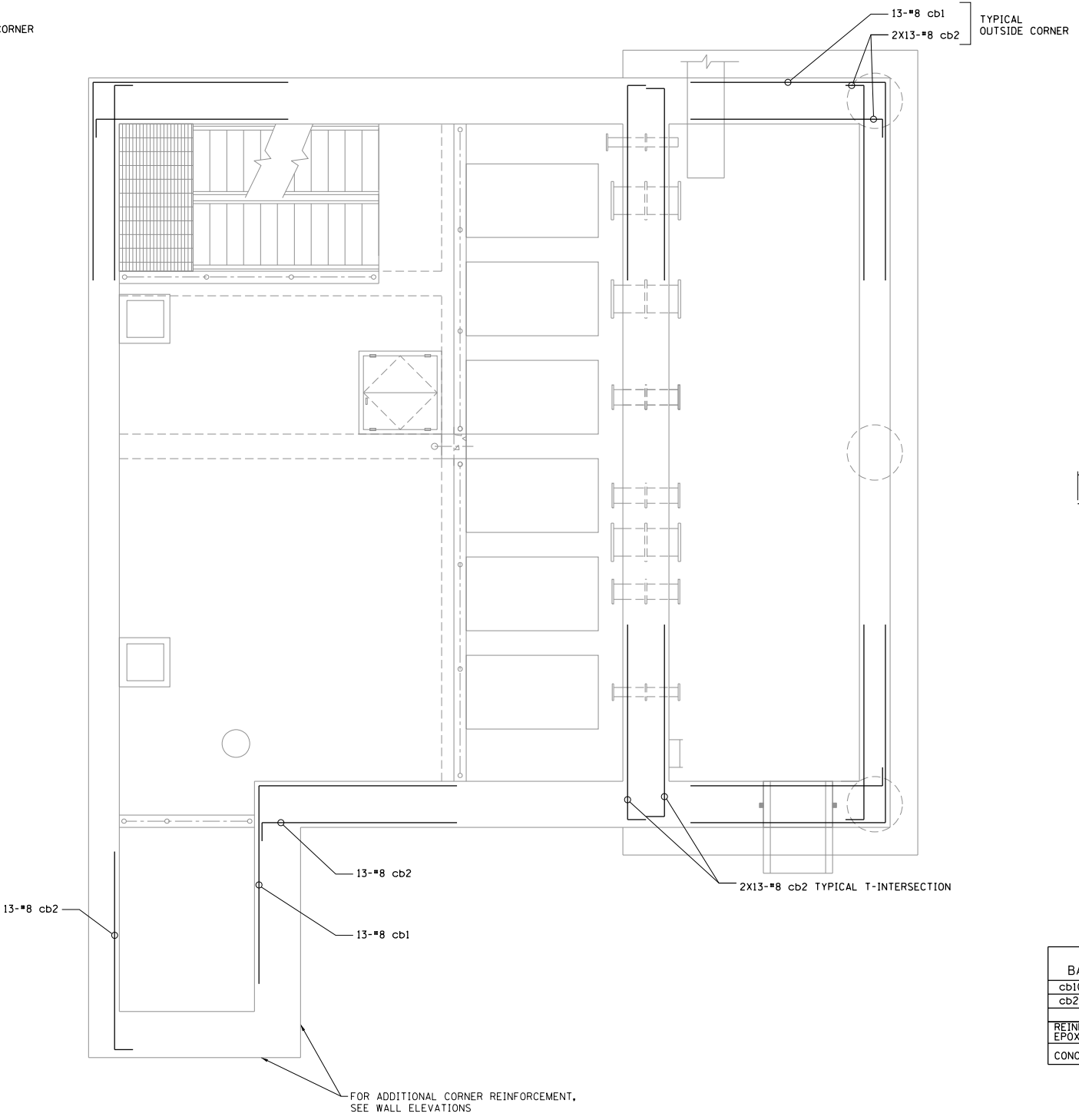
BAR	NO.	SIZE	LENGTH	SHAPE
h700(E)	54	#8	34'-4"	=====
h701(E)	26	#8	29'-0"	=====
h702(E)	26	#8	24'-11"	=====
v700(E)	65	#8	22'-3"	=====
v701(E)	61	#8	21'-3"	=====
v702(E)	87	#8	12'-10"	=====
REINFORCEMENT BARS EPOXY COATED			POUNDS	19,000
CONCRETE STRUCTURES			CU YD	125

S25

	USER NAME =	DESIGNED - SDR	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>PUMP STATION NO. 8 RELOCATION REINFORCEMENT DETAILS - WALLS</p>		RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - SDR	REVISED -		US 14	86 S-I-I	COOK	156	89		
	PLOT SCALE =	CHECKED - TJB	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		NORTHWEST HIGHWAY		CONTRACT NO. 60C48		
	PLOT DATE =	DATE - 09-29-17	REVISED -				ILLINOIS FED. AID PROJECT				

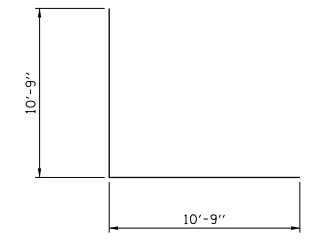


EL 604.00 TO EL 631.00

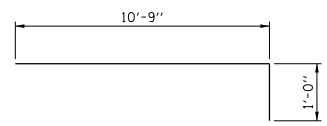


EL 631.00 TO EL 644.00

NOTE: ALL CORNER BARS SPACING AT 12" O.C.
(MATCH WITH HORIZONTAL REINFORCING BARS)



BAR cb1(E)



BAR cb2(E)

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
cb1(E)	164	#8	21'-6"	L
cb2(E)	379	#8	11'-9"	L
REINFORCEMENT BARS EPOXY COATED			POUNDS	21,305
CONCRETE STRUCTURES			CU YD	-

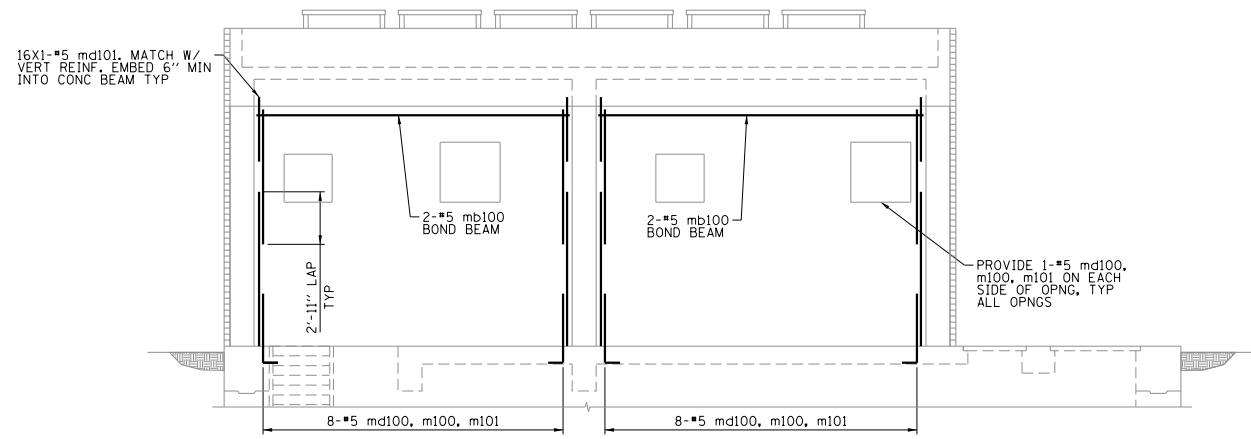


USER NAME =	DESIGNED - SDR	REVISED -
	DRAWN - SDR	REVISED -
PLOT SCALE =	CHECKED - TJB	REVISED -
PLOT DATE =	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

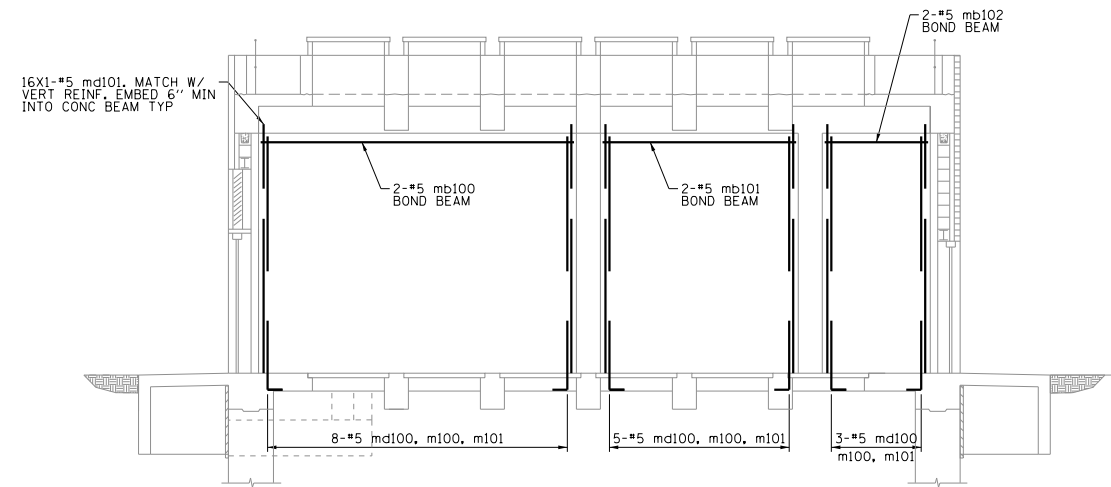
PUMP STATION NO. 8 RELOCATION			
REINFORCEMENT DETAILS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-I-I	COOK	156	91
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



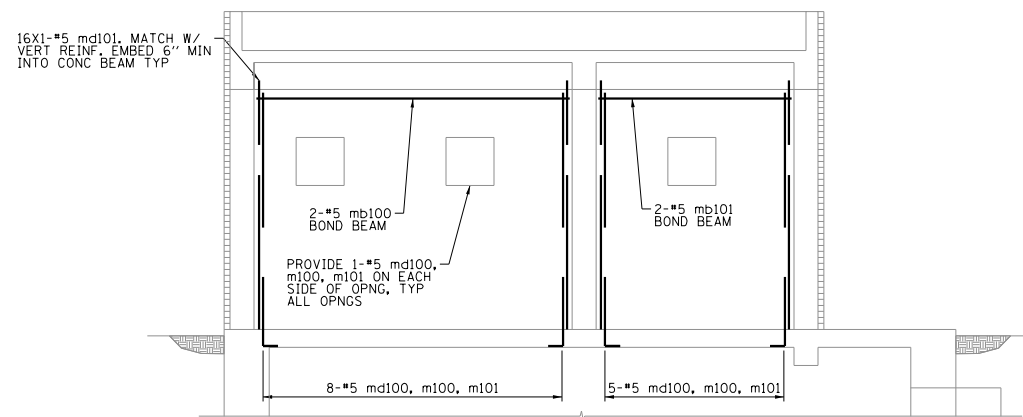
NOTE: WALL REINFORCING BARS SPACED AT 2'-8" OC.

ELEVATION 1



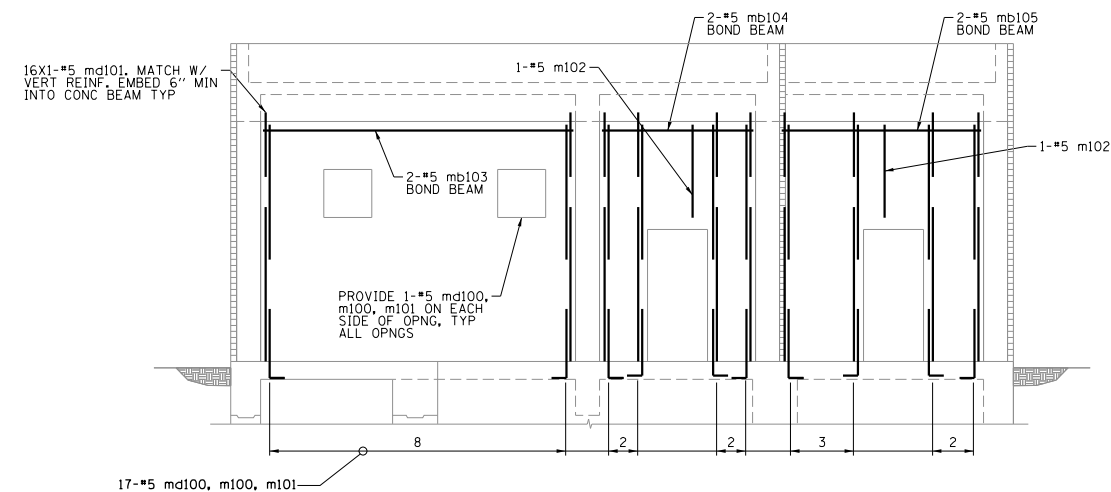
NOTE: WALL REINFORCING BARS SPACED AT 2'-8" OC.

ELEVATION 3



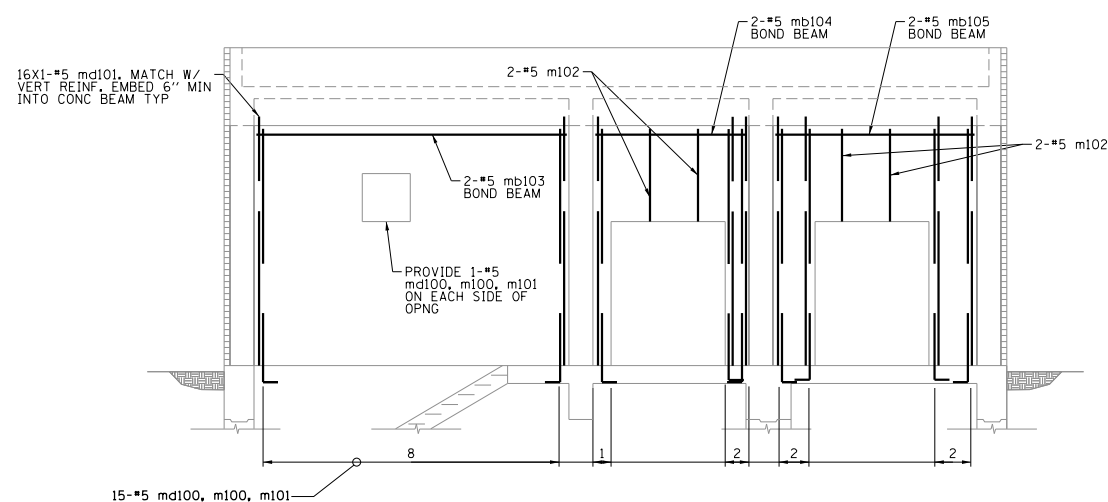
NOTE: WALL REINFORCING BARS SPACED AT 2'-8" OC.

ELEVATION 4



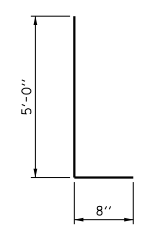
NOTE: WALL REINFORCING BARS SPACED AT 2'-8" OC.

ELEVATION 6



NOTE: WALL REINFORCING BARS SPACED AT 2'-8" OC.

ELEVATION 7



BAR md100(E)

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
md100(E)	77	#5	5'-8"	┌───┐
md101(E)	77	#5	3'-7"	┌───┐
m100(E)	77	#5	9'-10"	┌───┐
m101(E)	77	#5	7'-6"	┌───┐
m102(E)	6	#5	5'-2"	┌───┐
mb100(E)	8	#5	17'-5"	┌───┐
mb101(E)	4	#5	10'-9"	┌───┐
mb102(E)	2	#5	5'-9"	┌───┐
mb103(E)	4	#5	17'-3"	┌───┐
mb104(E)	4	#5	8'-5"	┌───┐
mb105(E)	4	#5	11'-1"	┌───┐
REINFORCEMENT BARS EPOXY COATED			POUNDS	2,509
CONCRETE STRUCTURES			CU YD	-



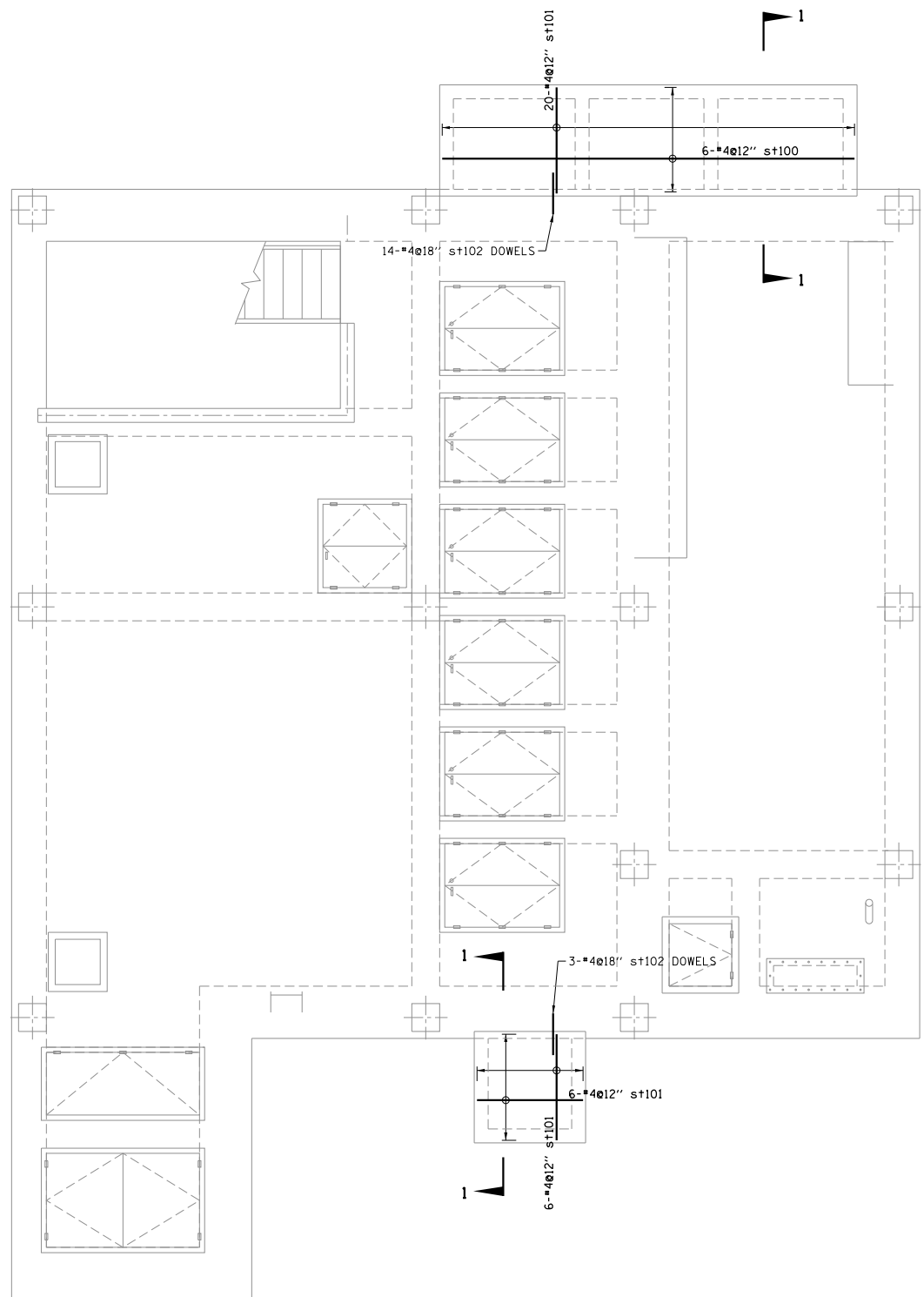
USER NAME =	DESIGNED - SDR	REVISED -
PLOT SCALE =	DRAWN - SDR	REVISED -
PLOT DATE =	CHECKED - TJB	REVISED -
	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

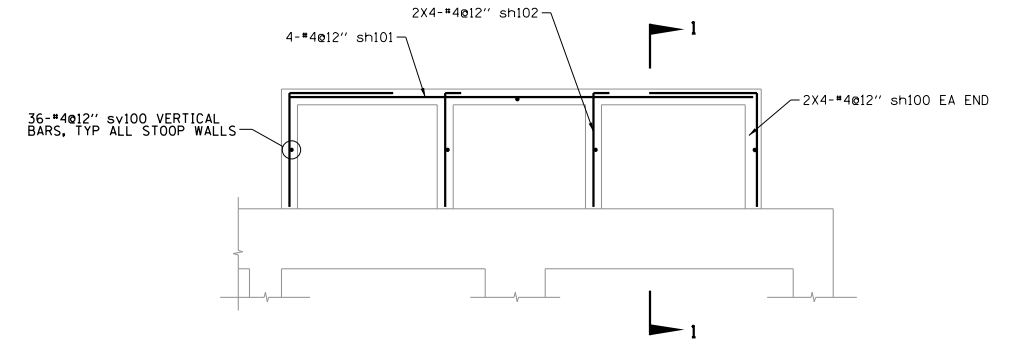
PUMP STATION NO. 8 RELOCATION
REINFORCEMENT DETAILS- MASONRY WALLS

SCALE: SHEET OF SHEETS STA. TO STA.

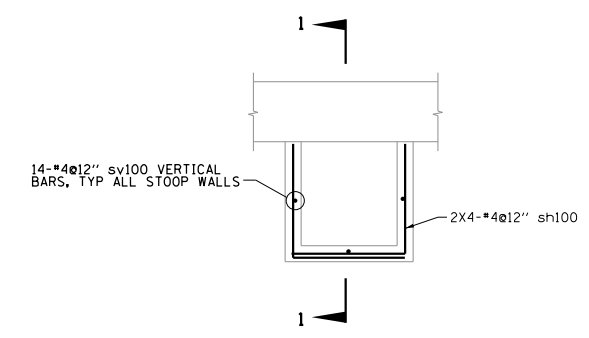
RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-I-I	COOK	156	92
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



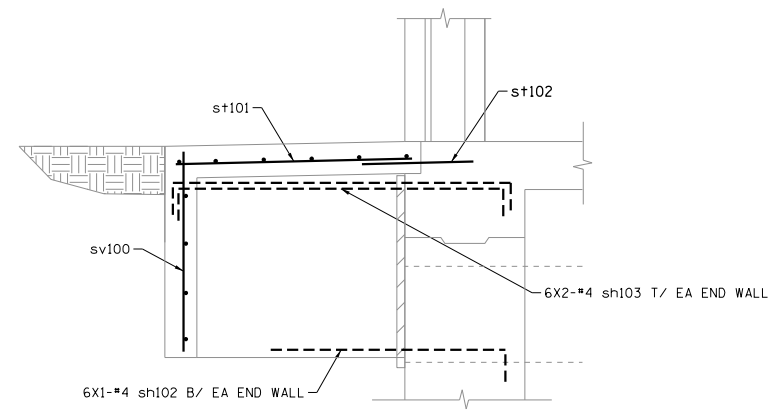
PLAN AT EL 644.00



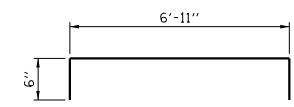
STOOP PLAN 1



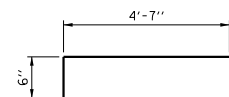
STOOP PLAN 2



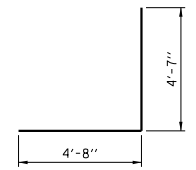
SECTION 1-1



BAR sh103(E)



BAR sh102(E)



BAR sh100(E)

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
s+100(E)	6	#4	19'-9"	—
s+101(E)	32	#4	5'-1"	—
s+102(E)	17	#4	2'-0"	—
sh100(E)	16	#4	9'-3"	J
sh101(E)	4	#4	19'-4"	—
sh102(E)	14	#4	5'-1"	—
sh103(E)	12	#4	7'-11"	—
sv100(E)	50	#4	4'-1"	—
REINFORCEMENT BARS EPOXY COATED			POUNDS	1,990
CONCRETE STRUCTURES			CU YD	7



USER NAME =	DESIGNED - SDR	REVISED -
PLOT SCALE =	DRAWN - SDR	REVISED -
PLOT DATE =	CHECKED - TJB	REVISED -
	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION REINFORCEMENT DETAILS DOOR STOOPS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-I-I	COOK	156	93
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

STRUCTURAL LEGEND

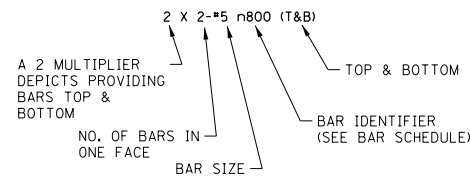
ABBREVIATIONS

ADDL	ADDITIONAL	MFR	MANUFACTURER
AL	ALUMINUM	MH	MANHOLE
ALT	ALTERNATE	MIN	MINIMUM
B/	BOTTOM OF	MO	MASONRY OPENING
BLDG	BUILDING	NO. or	NUMBER
BLK	BLOCK	NTS	NOT TO SCALE
BOT	BOTTOM	OC	ON CENTER
CL	CENTERLINE	OPNG	OPENING
CJT	CONTROL JOINT	PL	PLATE
CLR	CLEAR	PJF	PREFORMED JOINT FILLER
CMU	CONCRETE MASONRY UNIT	R	RISER
COL	COLUMN	RAD	RADIUS
CONC	CONCRETE	RD	ROOF DRAIN
CONT	CONTINUOUS	REINF	REINFORCING
CONTR JT	CONTRACTION JOINT	REQD	REQUIRED
DBL	DOUBLE	SIM	SIMILAR
DET	DETAIL	SPA	SPACE OR SPACING
DIA	DIAMETER	SS	STAINLESS STEEL
DIP	DUCTILE IRON PIPE	STL	STEEL
DN	DOWN	SO	SQUARE
DWG	DRAWING	T	TREAD
EA	EACH	T/	TOP OF
EF	EACH FACE	T/S	TOP OF STEEL
EL	ELEVATION	T&B	TOP AND BOTTOM
EQUIP	EQUIPMENT	TYP	TYPICAL
EW	EACH WAY	UNO	UNLESS NOTED OTHERWISE
EXP	EXPANSION	VERT	VERTICAL
EXP JT	EXPANSION JOINT	W/	WITH
EXT	EXTERIOR	WD	WOOD
FD	FLOOR DRAIN	WWF	WELDED WIRE FABRIC
FRP	FIBERGLASS REINFORCED PLASTIC	WS	WATERSTOP
FTG	FOOTING		
GA	GAUGE		
CALV	GALVANIZED		
HORZ	HORIZONTAL		
HP	HIGH POINT		
INSUL	INSULATION		
INT	INTERIOR		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LP	LOW POINT		

SYMBOLS

	CONCRETE
	EARTH OR BACKFILL
	ROCK
	GRATING

REINFORCING CALL-OUT IDENTIFIER



GENERAL STRUCTURAL NOTES

GENERAL

- THE GENERAL STRUCTURAL NOTES AND STANDARD STRUCTURAL DETAILS APPLY TO THE ENTIRE PROJECT UNLESS SPECIFICALLY NOTED OTHERWISE.

DESIGN CRITERIA

- DESIGN AND CONSTRUCT IN CONFORMANCE WITH THE INTERNATIONAL BUILDING CODE 2012 EDITION AND IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- SUPERIMPOSED DESIGN LOADS

A. WIND LOAD:

- ULTIMATE DESIGN WIND SPEED, V_{ult} 120 MPH
- NOMINAL DESIGN WIND SPEED, V_{asd} 93 MPH
- RISK CATEGORY III
- WIND EXPOSURE C
- INTERNAL PRESSURE COEFFICIENT, G_{CpI} +/- 0.18
- COMPONENTS AND CLADDING WIND PRESSURES +24 & -31 PSF

B. SNOW LOAD

- FLAT ROOF SNOW LOAD, P_f 20.0 PSF + DRIFT
- SNOW EXPOSURE FACTOR C_e 1.0
- IMPORTANCE FACTOR, I 1.1
- THERMAL FACTOR, C_t 1.0

C. ROOFING DEAD LOAD: (EQUIP AND PIPING ADDL)

- MECHANICAL EQUIPMENT: 30 PSF
- HOIST CAPACITIES: VERIFY WITH EQUIPMENT SUPPLIER

D. MECHANICAL EQUIPMENT:

- PUMP ROOM 1 TON
- STAIRS AND WALKWAYS 100 PSF OR 1000 LBS CONCENTRATED

G. FLOOR LIVE LOADS (OTHER THAN SLABS ON GRADE)

- PUMP ROOM: 200 PSF
- ELECTRICAL CONTROL ROOM: 300 PSF
- DISCHARGE FLOOR: 200 PSF
- INTERMEDIATE FLOOR: 200 PSF

H. SEISMIC DESIGN DATA

- RISK CATEGORY III
- IMPORTANCE FACTOR 1.25
- MAPPED SPECTRAL RESPONSE ACCELERATIONS
 - a. S_s 0.135
 - b. S_1 0.060
- SITE CLASS D
- SPECTRAL RESPONSE COEFFICIENTS
 - a. SDS 0.144
 - b. SDI 0.096
- SEISMIC DESIGN CATEGORY B
- BASIC SEISMIC FORCE RESISTING SYSTEM ORDINARY REINFORCED MASONRY SHEAR WALLS
- DESIGN BASE SHEAR $V = C_s * W$ ($W =$ EFFECTIVE SEISMIC WEIGHT)
- RESPONSE MODIFICATION FACTOR, R 2
- SEISMIC RESPONSE COEFFICIENT, C_s 0.09
- ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATIONS

- GEOTECHNICAL INVESTIGATION BY WANG ENGINEERING, INC. DATED DEC. 9, 2008.
- MAXIMUM APPLIED SERVICE BEARING PRESSURE = $Q_{MAX} = 8000$ PSF(NET). GEOTECHNICAL ENGINEER SHALL FIELD VERIFY BEARING CONDITIONS DURING CONSTRUCTION.
- PLACE FOOTINGS ON NATURAL UNDISTURBED EARTH OR STRUCTURAL FILL.
- PLACE FILL AGAINST FOUNDATION WALLS ENCLOSING INTERIOR SPACES AFTER CONSTRUCTION SUCH AS CROSS WALLS, BEAMS, OR SLABS ARE IN PLACE TO BRACE WALL AND SUCH CONSTRUCTION HAS REACHED ITS DESIGN STRENGTH.
- TO MINIMIZE LATERAL FORCES AGAINST THE STRUCTURE DUE TO WEDGING ACTION OF THE SOIL, BEGIN COMPACTION OF EACH LAYER AT THE STRUCTURE WALL.

REINFORCEMENT

- REINFORCING STEEL-ALL REINFORCING STEEL TO BE EPOXY COATED
 - A. DEFORMED BARS: ASTM A706-GRADE 60
 - B. EPOXY COATING: ASTM A775
- UNLESS NOTED OTHERWISE PROVIDE CLEAR COVER FOR REINFORCEMENT AS FOLLOWS:
 - A. CAST AGAINST
 - 1. EARTH: 3 INCHES
 - 2. MUD SLAB: 2 INCHES
 - B. EXPOSED TO EARTH, WEATHER, OR WATER
 - 1. SLABS
 - a. #5 BARS OR SMALLER: 1 1/2 INCHES
 - b. #6 THROUGH # 11 BARS: 2 INCHES
 - 2. WALLS, BEAMS, AND COLUMNS: 2 INCHES
 - C. NOT EXPOSED TO EARTH, WEATHER, OR WATER
 - 1. SLABS AND WALLS
 - a. #3 THROUGH #7 BARS: 1 INCH
 - b. #8 THROUGH # 11 BARS: 1 1/2 INCHES
 - 2. BEAMS AND COLUMNS: 1 1/2 INCHES
- PLACE DOWELS BEFORE PLACING CONCRETE.
- DO NOT FIELD WELD OR FIELD BEND REINFORCING BARS.

CONCRETE

- DESIGN STRENGTH
 - A. CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTION STANDARD SPECIFICATIONS SECTION 503.
 - B. ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS SI, $f'_c = 3,500$ psi AT 14 DAYS.
- PROVIDE WATERSTOP IN CONSTRUCTION JOINTS IN
 - A. WALLS AND SLABS SEPARATING DRY INTERIOR FROM EARTH OR LIQUID.
 - B. EXTERIOR WALLS AND SLABS OF LIQUID HOLDING TANKS.
 - C. SLABS ABOVE OCCUPIED AREAS.
 - D. OTHER LOCATIONS SHOWN.
- CONSTRUCTION JOINTS NOT SHOWN SHALL BE APPROVED BY ENGINEER.
- LIMIT SIZE OF CONCRETE POURS. MAXIMUM LENGTH OF WALL AND SLAB POURS SHALL NOT EXCEED 60 FT.
- BEFORE CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE CLEANED, LAITANCE REMOVED, AND SURFACE WETTED. REMOVE STANDING WATER.
- LOCATE CONSTRUCTION JOINTS IN FLOORS WITHIN MIDDLE THIRD OF SPAN. CONSTRUCTION JOINTS IN FLOORS SUPPORTED BY WALLS MAY BE LOCATED AT CENTER OF WALL.
- CONSTRUCTION JOINTS IN BEAMS SHALL BE OFFSET MIN DISTANCE OF 2 TIMES WIDTH OF INTERSECTING BEAM.
- LOCATE VERTICAL JOINTS IN WALL A MIN OF ONE- HALF WALL HEIGHT FROM CORNERS OR OTHER INTERSECTING WALLS. LOCATE HORIZONTAL JOINTS IN WALLS WITHIN THE MIDDLE THIRD OF WALL HEIGHT.
- BEAMS AND HAUNCHES SHALL BE PLACED MONOLITHICALLY AS PART OF SLAB SYSTEM, UNLESS DETAILED OTHERWISE.
- CONSTRUCTION JOINTS SHALL HAVE KEYS OR ROUGHENED SURFACES. WHERE ROUGHENED SURFACE USED, SURFACE SHALL HAVE AMPLITUDE OF 1/4 IN. MIN.
- PROVIDE 3/4 IN. CHAMFER ON EXTERNAL CORNERS OF EXPOSED CONCRETE WALLS, BEAMS, COLUMNS, EQUIPMENT BASES AND EXPOSED EDGES OF CONSTRUCTION JOINTS.
- VERIFY EQUIPMENT PAD AND CURB LOCATIONS, DIMENSIONS, AND ELEVATIONS WITH EQUIPMENT MANUFACTURERS.

METALS

- STEEL
 - A. W SHAPES: ASTM A992
 - B. SQUARE OR RECTANGULAR TUBE: ASTM A500
 - C. PIPE: ASTM A53
 - D. BOLTED CONNECTIONS: ASTM A325
 - E. PLATES, SHAPES, AND BARS: ASTM A36
 - F. STAINLESS STEEL: AISI TYPE 316
- ALUMINUM SHAPES AND PLATES ALLOY 6061-T6 OR 6063-T6
- ANCHOR BOLTS: 1/2" MIN DIAMETER
 - A. NON-SUBMERGED: ASTM A307 GALVANIZED
 - B. SUBMERGED: AISI TYPE 316 STAINLESS STEEL
- WELD STRUCTURAL STEEL WITH E70XX ELECTRODES IN ACCORDANCE WITH AWS REQUIREMENTS.
- WELD ALUMINUM IN ACCORDANCE WITH AWS AND ALUMINUM ASSOCIATION REQUIREMENTS.
- COAT ALUMINUM SURFACES IN CONTACT WITH CONCRETE IN ACCORDANCE WITH AA REQUIREMENTS. UNDER NO CIRCUMSTANCES SHALL ALUMINUM CONTACT DISSIMILAR METALS.

MISCELLANEOUS

- VERIFY PERTINENT EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING CONSTRUCTION AND/OR FABRICATION.
- FOR ADDITIONAL OPENINGS, ANCHORS, AND EMBEDDED ITEMS SEE PROCESS, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.

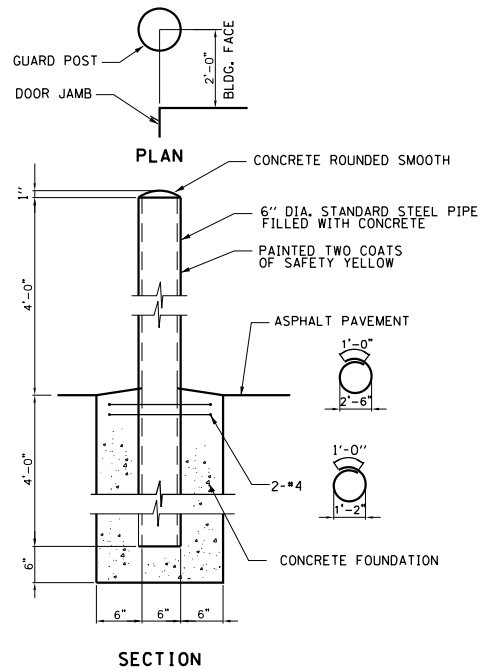
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	PLOT SCALE =	DRAWN - SDR	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	US 14	86 S-I-I	COOK	156	94
	PLOT DATE =	CHECKED - TJB	REVISED -										NORTHWEST HIGHWAY			CONTRACT NO. 60C48
		DATE - 09-29-17	REVISED -										ILLINOIS FED. AID PROJECT			

MINIMUM REINFORCEMENT BAR SPLICE AND ANCHORAGE LENGTH (INCHES)

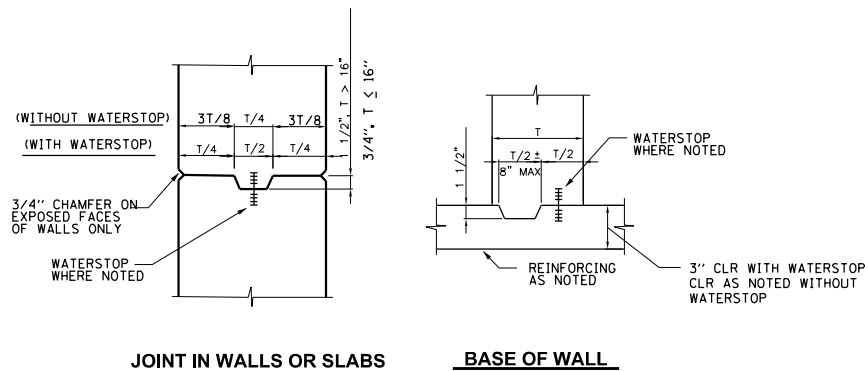
BAR SIZE	LAPPED SPLICE LENGTH		EMBEDMENT LENGTH		COMPRESSION LAP LENGTH
	TOP BARS	OTHERS	TOP BARS	OTHERS	
3	39	30	30	23	12
4	52	40	40	31	15
5	65	50	50	39	19
6	78	60	60	46	23
7	113	87	87	67	27
8	129	99	99	77	30
9	145	112	112	86	34
10	161	124	124	96	38
11	177	136	136	105	42

NOTES:

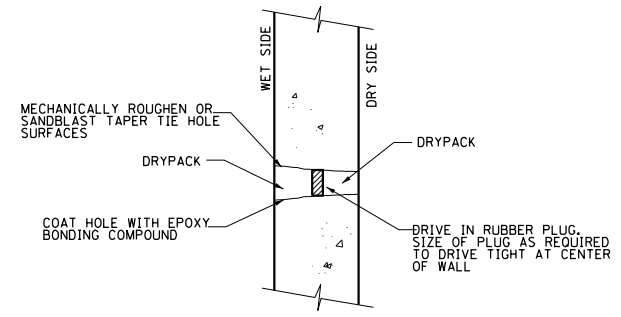
- TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.
- FOR BARS SPACED LESS THAN 6 BAR DIAMETER OC INCREASE LENGTH BY 25%.
- WHEN LAPPING TWO DIFFERENT SIZE BARS USE THE LAP LENGTH OF THE SMALLER BAR UNLESS NOTED OTHERWISE.
- EMBEDMENT LENGTH IS MINIMUM LENGTH OF EMBEDMENT FOR STRAIGHT DOWELS WHERE END HOOK IS NOT SHOWN, UNLESS OTHERWISE NOTED.
- COMPRESSION LAP LENGTH FOR VERTICAL COLUMN BARS ONLY.
- HOOKS SHALL BE ACI STANDARD UNLESS OTHERWISE NOTED.
- BILL OF MATERIAL IS FOR INFORMATION ONLY. PUMP STATION WILL BE PAID FOR UNDER CONTRACT UNIT PRICE.
- CHAIRS, BOLSTERS, AND STANDEES ARE NOT INCLUDED IN BAR SCHEDULE AND SHALL BE INCIDENTAL TO REINFORCING BARS PAY ITEM.



GUARD POST DETAIL-S1

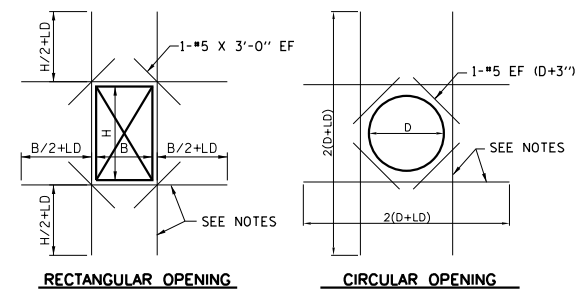


CONSTRUCTION JOINTS DETAIL-S2



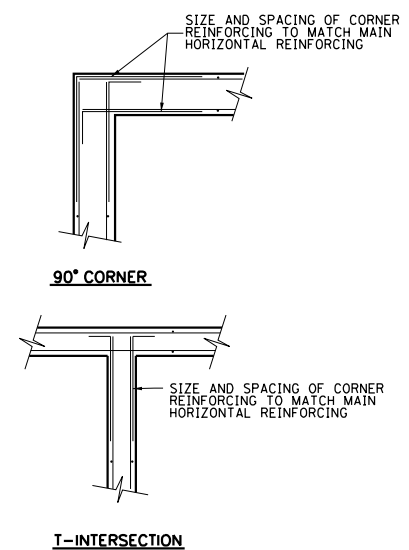
- NOTES:**
- MIN DIA AT DRY SIDE = 1". TAPER HOLE SO THAT MINIMUM WET SIDE DIA = DRY SIDE DIA PLUS 1/4"
- CONSTRUCTION STEPS:**
- SANDBLAST OR MECHANICALLY ROUGHEN TAPER TIE HOLE SURFACES AND BLOW TIE HOLE CLEAN WITH COMPRESSED AIR.
 - DRIVE RUBBER PLUG.
 - APPLY EPOXY BONDING COMPOUND WET SIDE AND WHILE EPOXY IS TACKY, DRYPACK WITH NONSHRINK GROUT.
 - APPLY EPOXY BONDING COMPOUND DRY SIDE AND WHILE EPOXY IS TACKY, DRYPACK WITH NONSHRINK GROUT.

FORM TIE THROUGH BOLT DETAIL-S3

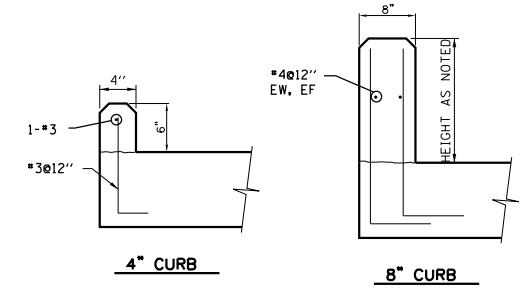


- NOTES:**
- THESE DETAILS APPLY TO ALL OPENINGS IN CONCRETE WALLS AND SLABS WHEN THE LARGEST OPENING DIMENSION IS GREATER THAN TWO TIMES SECTION THICKNESS OR GREATER THAN REINFORCING SPACING IN THE SECTION, UNLESS OTHERWISE INDICATED IN THE DRAWINGS.
 - THE AREA OF ADDITIONAL REINFORCING REQUIRED IN EACH FACE ON EACH SIDE OF AN OPENING SHALL EQUAL OR EXCEED ONE-HALF OF THE AREA OF THE INTERCEPTED BARS IN EACH FACE, IN EACH DIRECTION, RESPECTIVELY WITH A MINIMUM OF 1-#5 BAR EACH FACE.
 - PLACE THE ADDED BARS IN THE SAME LAYERS AS THE WALL OR SLAB REINFORCING.

ADDITIONAL REINFORCEMENT AT OPENINGS IN WALLS AND SLABS DETAIL-S4



HORIZONTAL REINFORCEMENT DETAIL-S5



CURBS DETAIL-S7

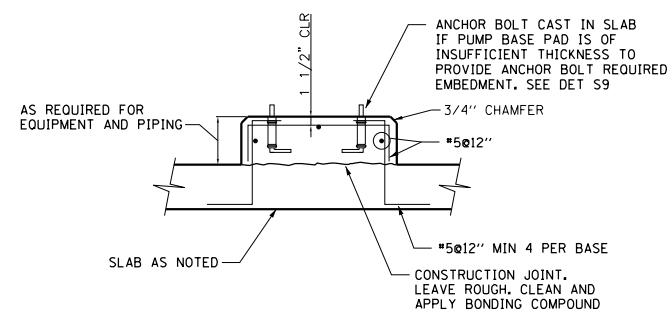


USER NAME =	DESIGNED - SDR	REVISED -
DRAWN - SDR	CHECKED - TJB	REVISED -
PLOT SCALE =	DATE - 09-29-17	REVISED -
PLOT DATE =		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

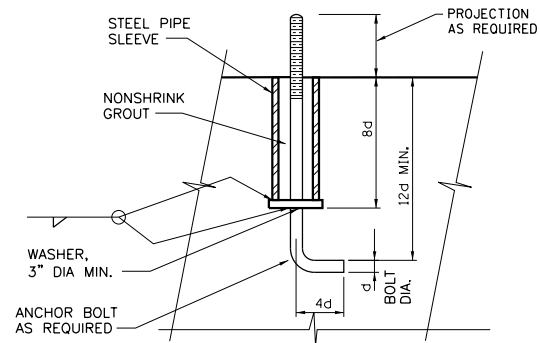
PUMP STATION NO. 8 RELOCATION STRUCTURAL DETAILS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-I-I	COOK	156	95
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



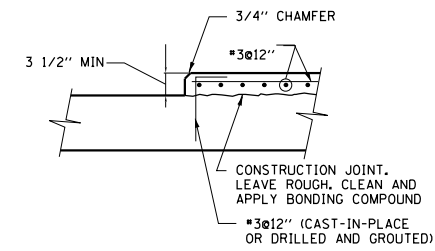
MAIN PUMP BASE DETAIL-S8

N.T.S.



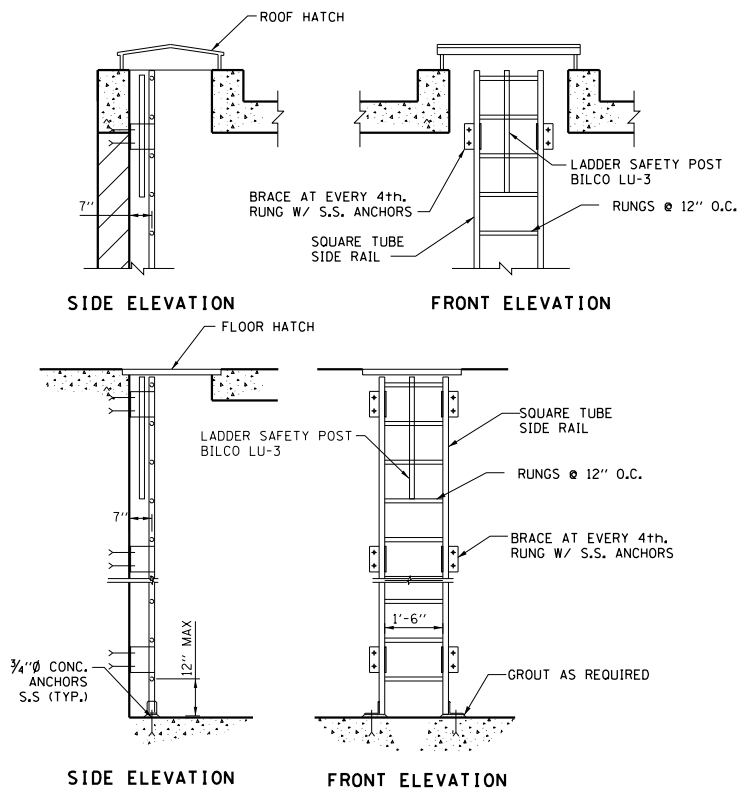
EQUIPMENT ANCHOR BOLT DETAIL-S9

N.T.S.



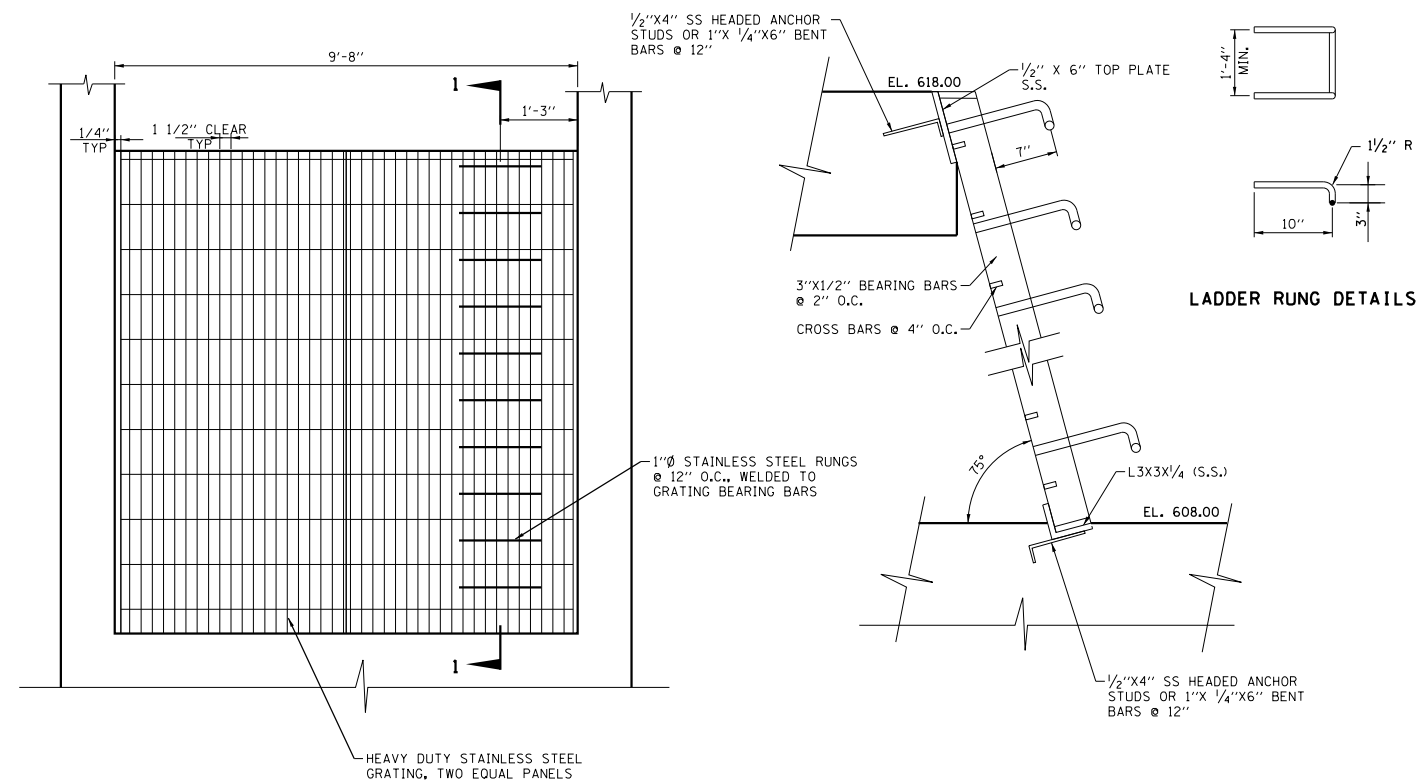
EQUIPMENT PAD DETAIL-S10

N.T.S.



FIBERGLASS LADDER DETAIL-S12

N.T.S.



TRASH BAR SCREEN DETAIL-S13

N.T.S.

SECTION 1-1

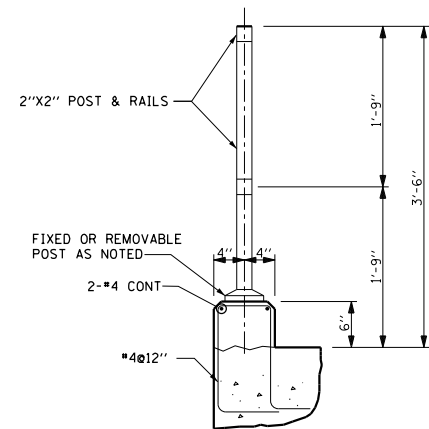


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PLOT DATE =	CHECKED - TJB	REVISED -
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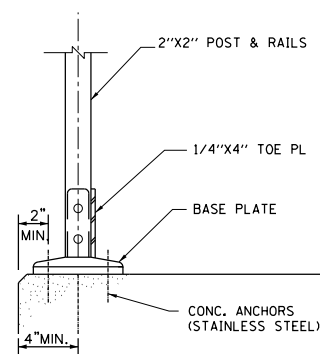
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PUMP STATION NO. 8 RELOCATION STRUCTURAL DETAILS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

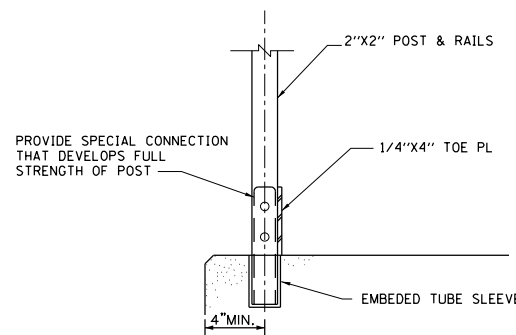
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US 14	86 S-1-I	COOK	156	96
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



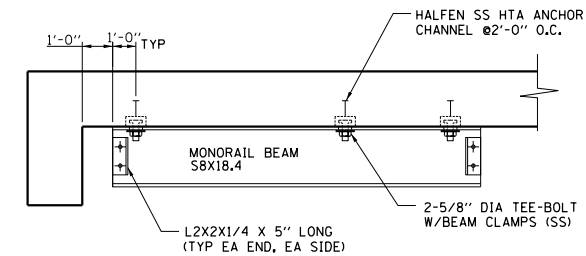
HANDRAIL WITH CURB



FIXED HANDRAIL SURFACE MOUNTED



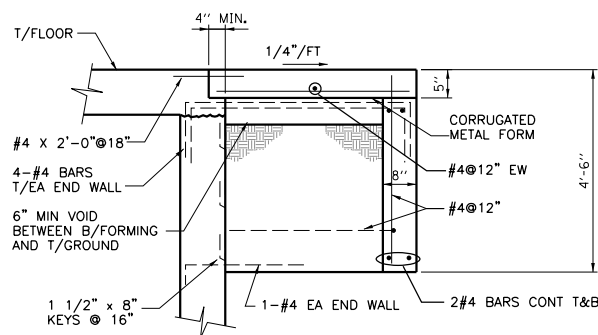
REMOVABLE HANDRAIL



MONORAIL DETAIL-S15
N.T.S.

FIBERGLASS HANDRAIL DETAIL-S14

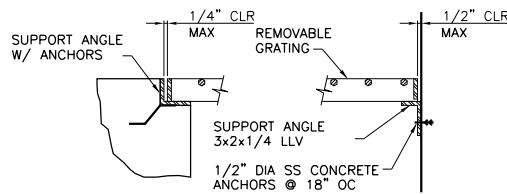
N.T.S.



DOOR STOOP DETAIL-S16

N.T.S.

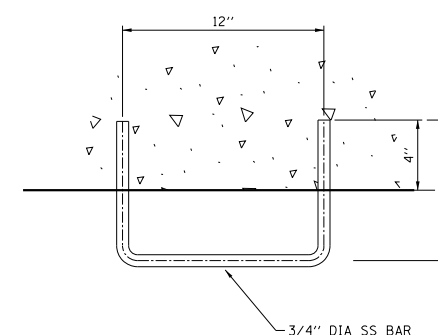
NOTE:
WHERE STOOP LENGTH NOTED IS GREATER THAN 6'-0", PROVIDE ADDITIONAL VERTICAL WALLS AS NOTED ON DRAWINGS.



GRATING SUPPORT DETAIL-S17

N.T.S.

- NOTES:
1. SUPPORT MATERIAL TO MATCH GRATING MATERIAL UNLESS OTHERWISE NOTED.
 2. PROVIDE GRATING SUPPORTS ALL AROUND OPENING UNLESS OTHERWISE NOTED.



GRAB BAR DETAIL-S18

N.T.S.

FILE NAME :



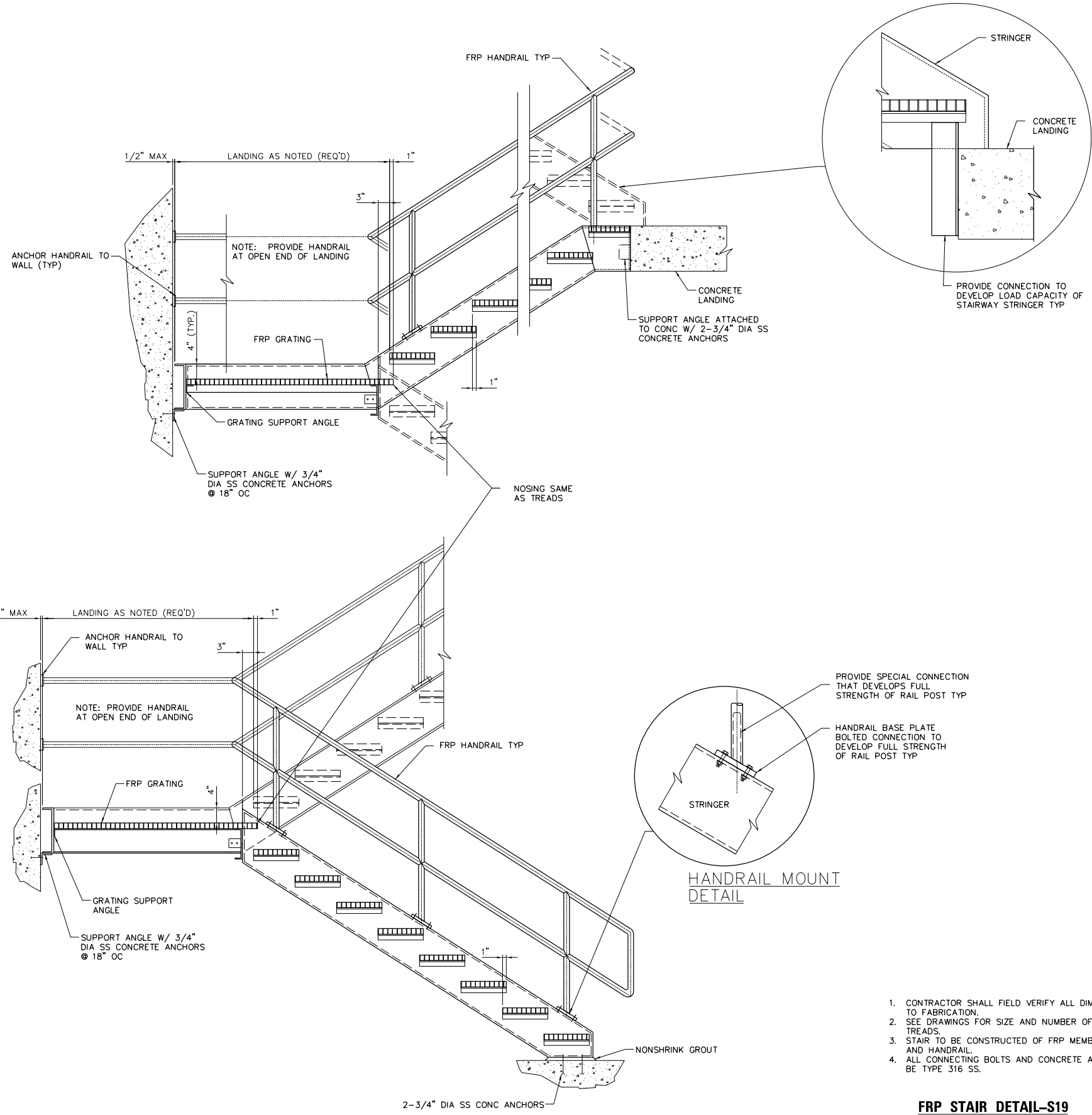
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PLOT SCALE :	DRAWN - SDR	REVISED -
PLOT DATE :	CHECKED - TJB	REVISED -
	DATE - 09-29-17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION
STRUCTURAL DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

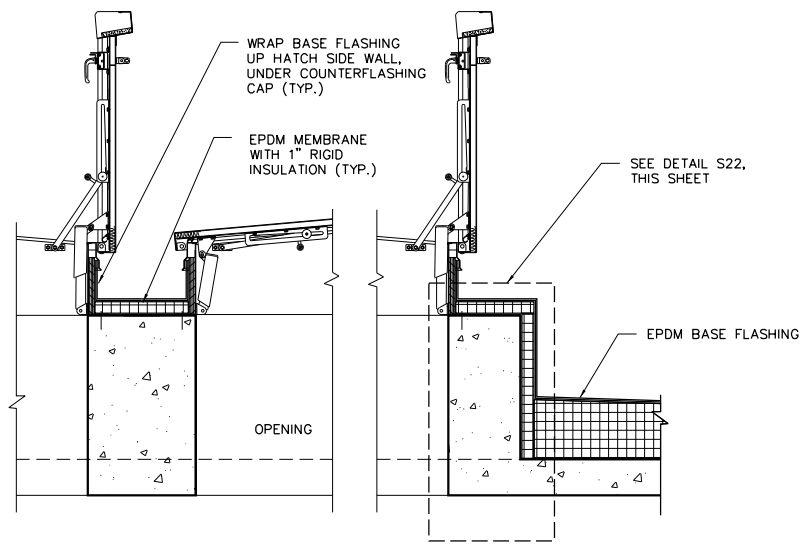
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-I-I	COOK	156	97
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				



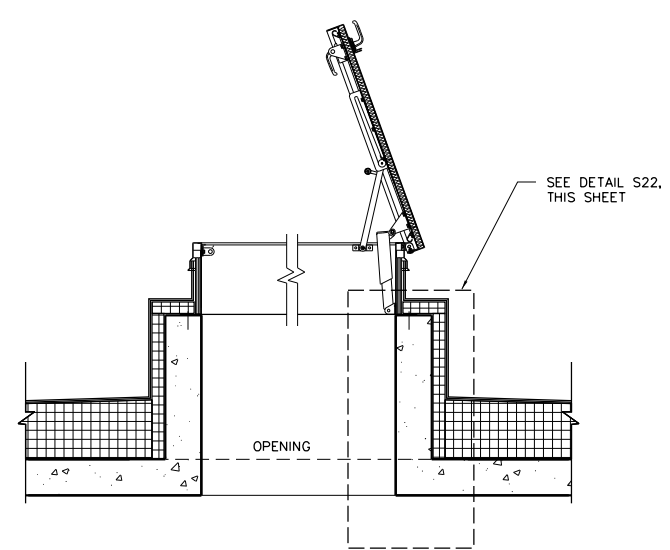
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
2. SEE DRAWINGS FOR SIZE AND NUMBER OF RISERS AND TREADS.
3. STAIR TO BE CONSTRUCTED OF FRP MEMBERS, GRATING, AND HANDRAIL.
4. ALL CONNECTING BOLTS AND CONCRETE ANCHORS SHALL BE TYPE 316 SS.

FRP STAIR DETAIL-S19
N.T.S.

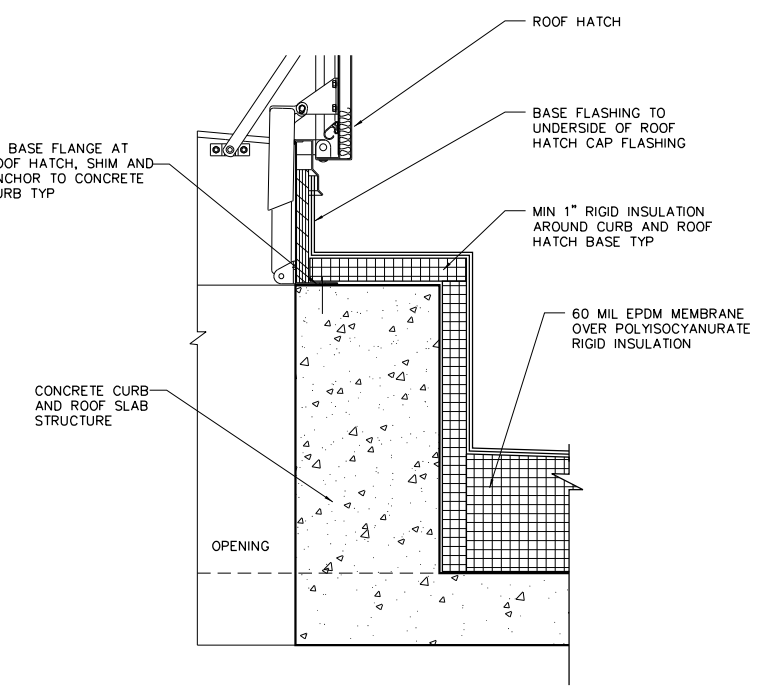
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	PLOT SCALE =	DRAWN - SDR	REVISED -					US 14	86 S-I-I	COOK	156	98
	PLOT DATE =	CHECKED - TJB	REVISED -					SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 60C48		
		DATE - 09-29-17	REVISED -					ILLINOIS FED. AID PROJECT				



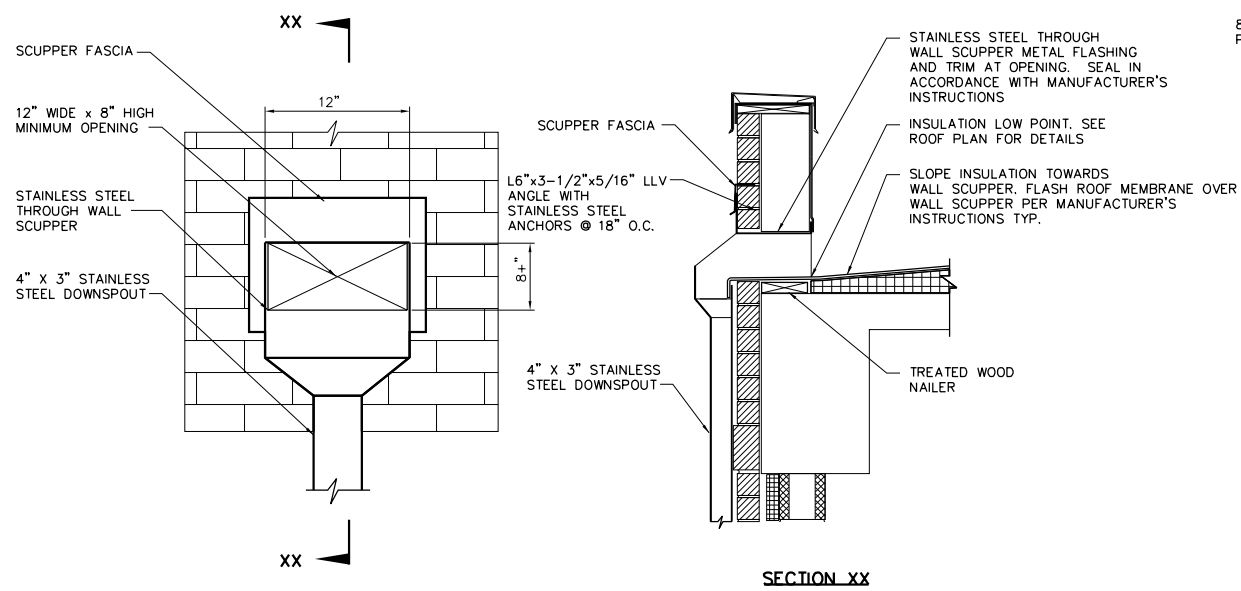
DOUBLE LEAF ROOF ACCESS HATCH DETAIL-S20
N.T.S.



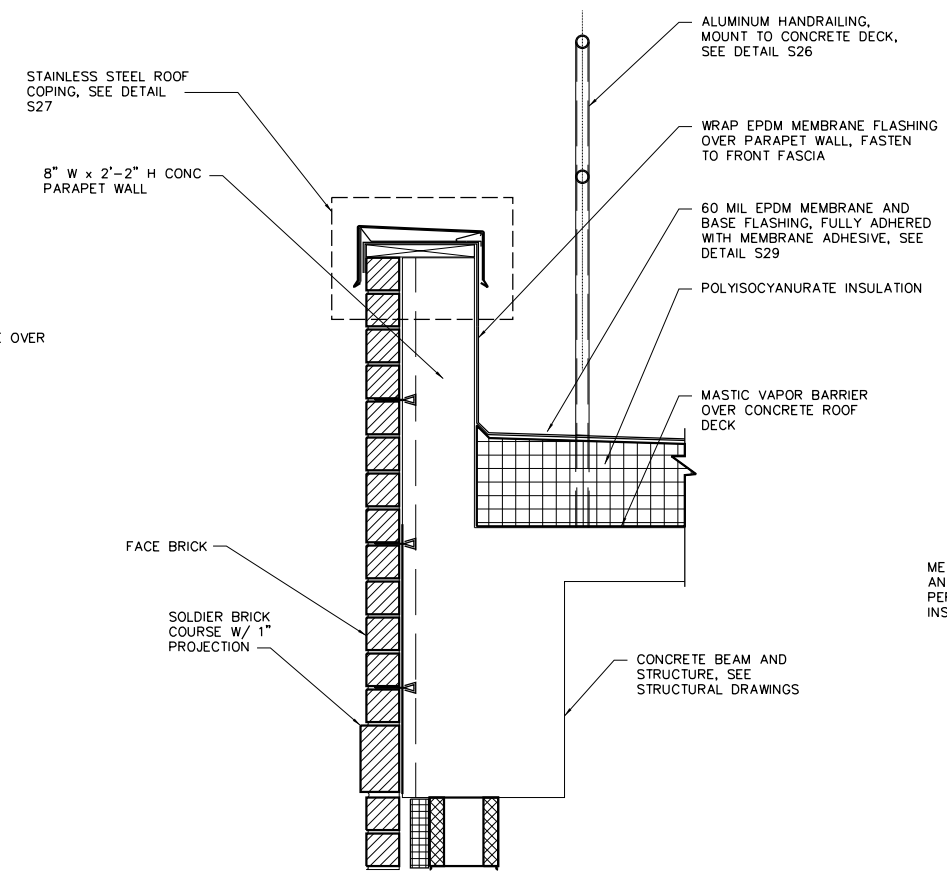
SINGLE LEAF ROOF ACCESS HATCH DETAIL-S21
N.T.S.



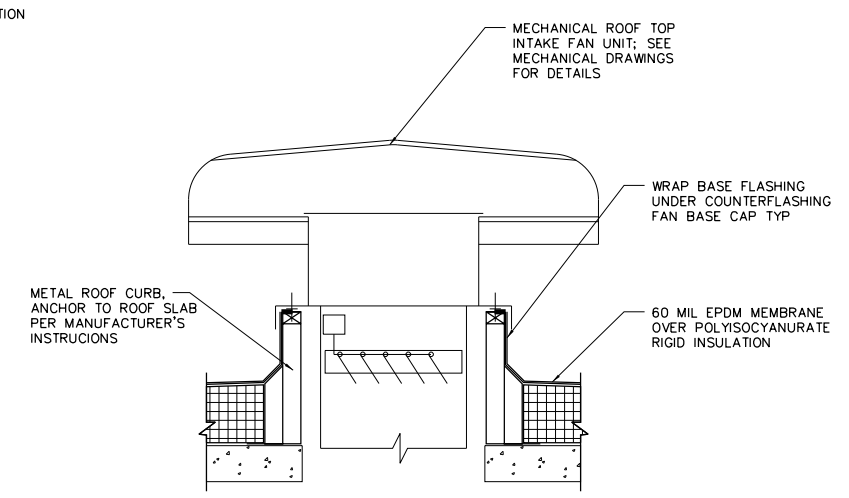
ROOF HATCH CURB DETAIL-S22
N.T.S.



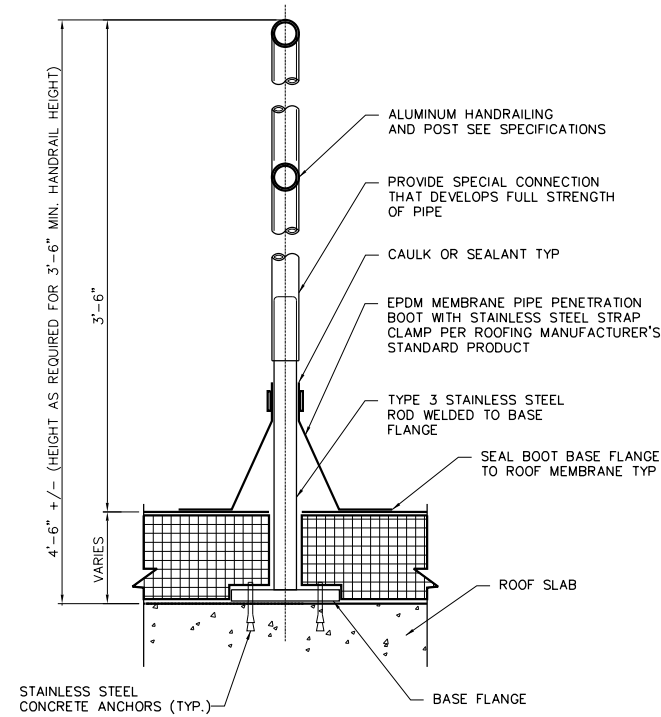
ROOF SCUPPER DETAIL-S23
N.T.S.



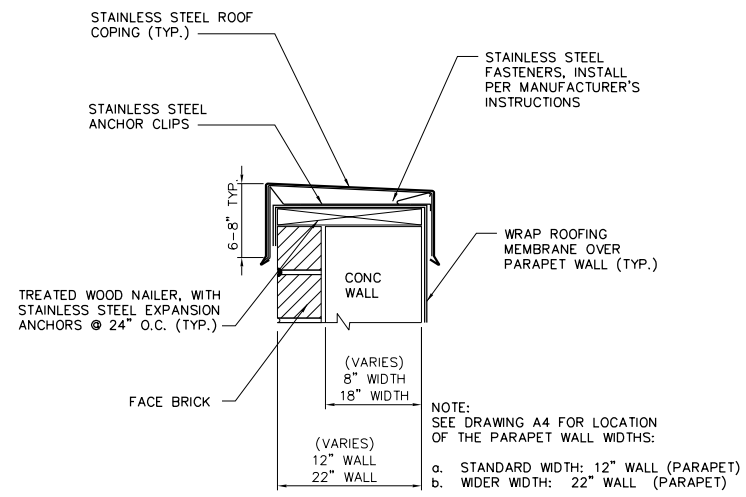
GENERAL ROOF EDGE DETAIL-S24
N.T.S.



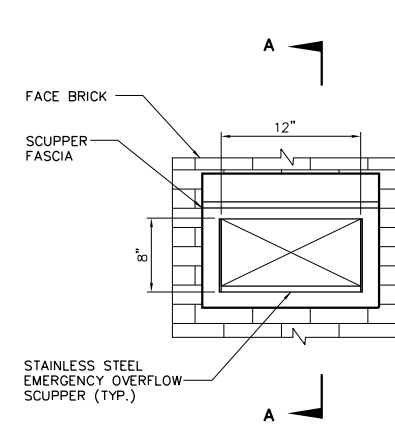
METAL ROOF FAN CURB DETAIL-S25
N.T.S.



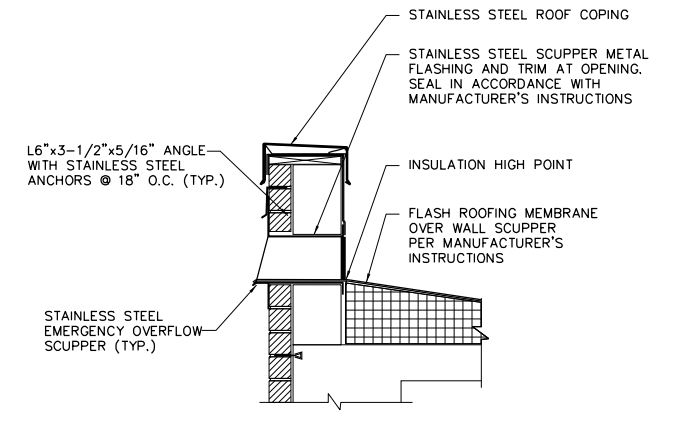
ROOF MOUNTED HANDRAIL DETAIL-S26
N.T.S.



STAINLESS STEEL COPING PARAPET WALL DETAIL-S27
N.T.S.

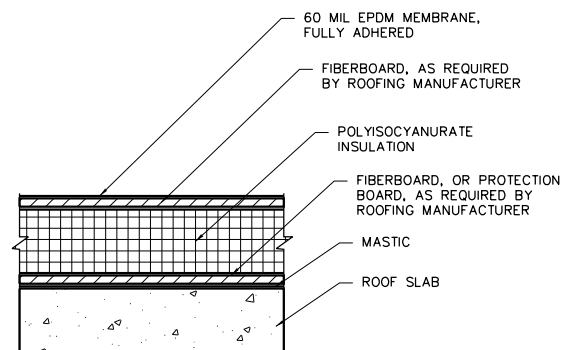


ELEVATION

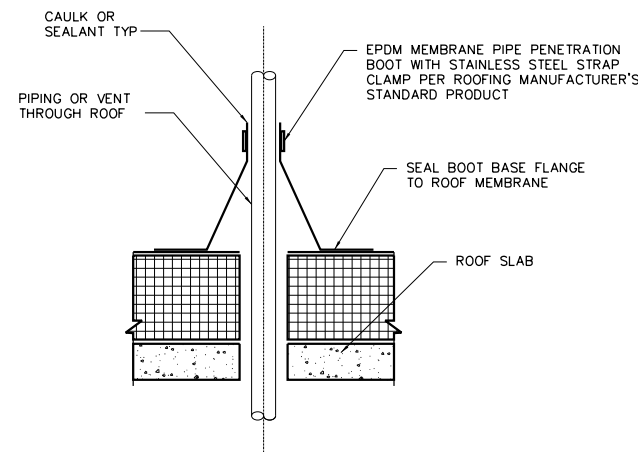


SECTION A

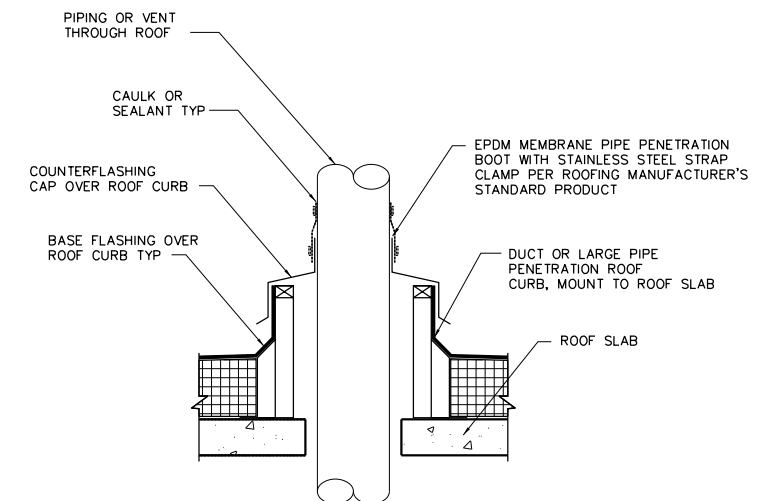
OVERFLOW SCUPPER DETAIL-S28
N.T.S.



GENERAL ROOF MEMBRANE DETAIL-S29
N.T.S.



PIPE PENETRATION DETAIL-S30
N.T.S.



LARGE PIPE OR VENT PENETRATION DETAIL-S31
N.T.S.

FILE NAME :



USER NAME :	DESIGNED - SDR	REVISED -
	DRAWN - SDR	REVISED -
PLOT SCALE :	CHECKED - TJB	REVISED -
PLOT DATE :	DATE - 09-29-17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PUMP STATION NO. 8 RELOCATION
STRUCTURAL DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 14	86 S-I-I	COOK	156	100
NORTHWEST HIGHWAY			CONTRACT NO. 60C48	
ILLINOIS FED. AID PROJECT				

S36