

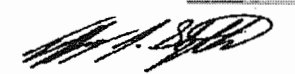
01-15-2021 LETTING ITEM 141

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

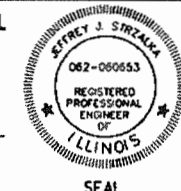
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 61F89	

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR LIST OF HIGHWAY STANDARDS SEE SHEET NO. 2


**PROFESSIONAL ENGINEER'S SIGN & SEAL**  
APPLIES TO SHEETS: 1-22, 65




JEFFREY J. STRZALKA, P.E.  
EXPIRES: 11-30-21




**STRUCTURAL ENGINEER'S SIGN & SEAL**  
APPLIES TO SHEETS: 23-57




ANDREW E. UNDERWAGER, S.E.  
EXPIRES: 11-30-20



**PROFESSIONAL ENGINEER'S SIGN & SEAL**  
APPLIES TO SHEETS: 58-64

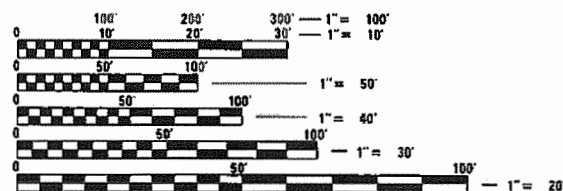
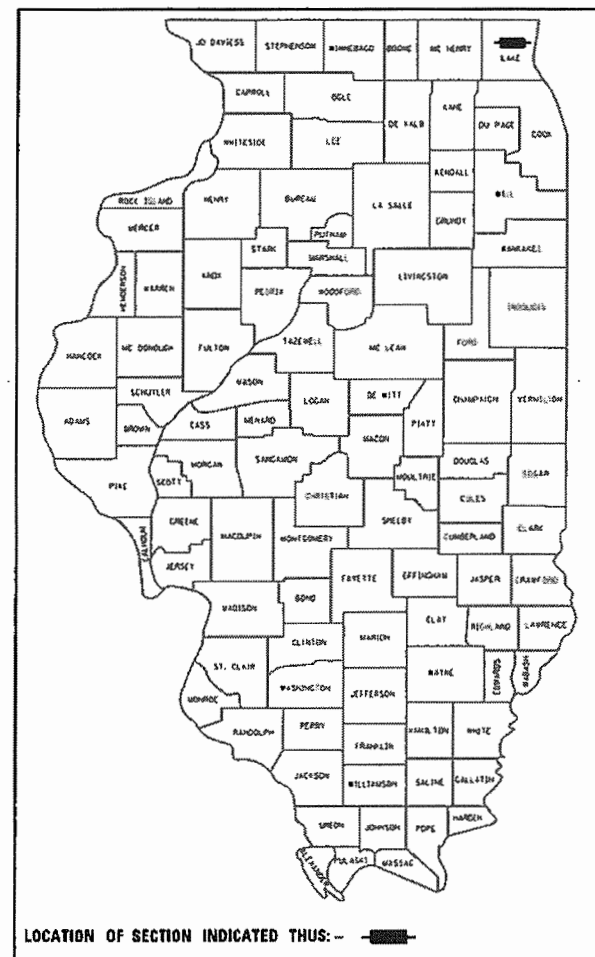


MARIA KALTSOUNI, P.E.  
EXPIRES: 11-30-21



**PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY**  
MUNDELEIN METRA STATION OVER CN RR BRIDGE  
SECTION: 12-00097-00-BR  
PROJECT: JFPP(620)  
VILLAGE OF MUNDELEIN  
LAKE COUNTY  
JOB: C-91-333-16

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, IL

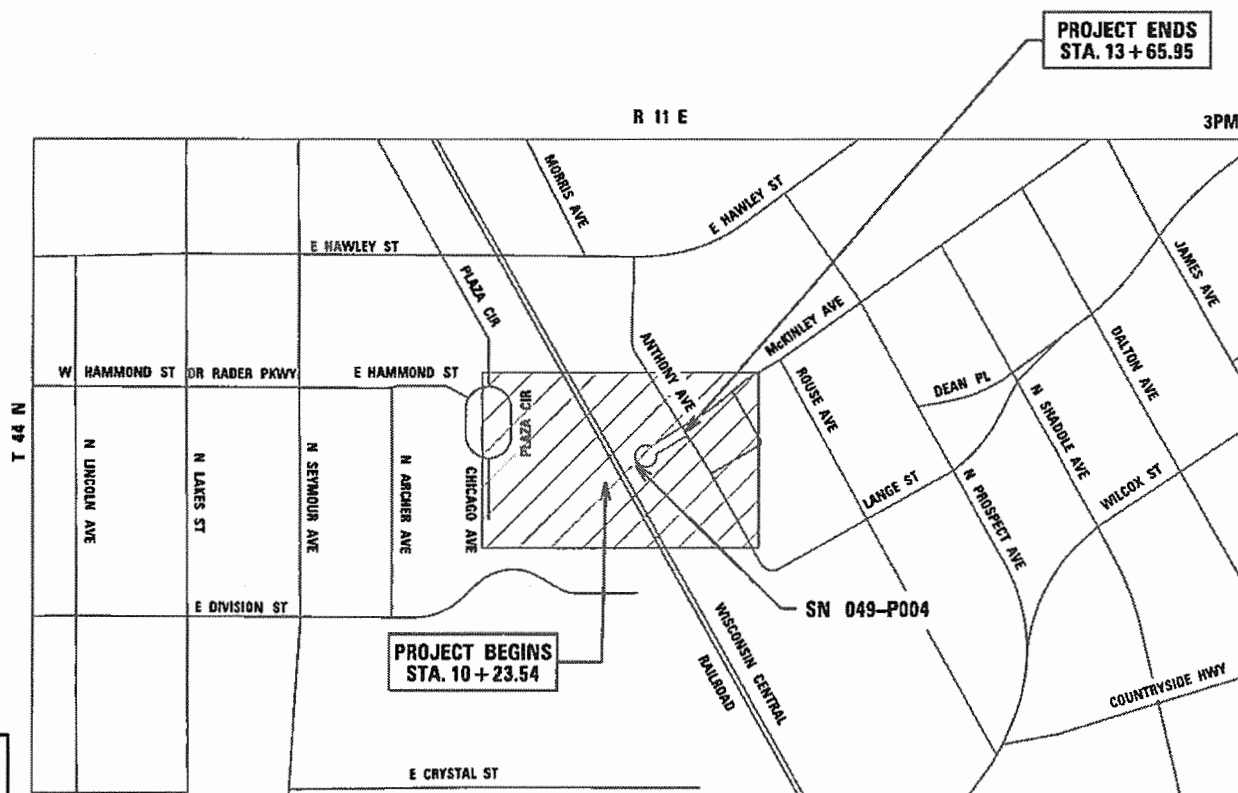


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.



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LIBERTYVILLE TOWNSHIP  
**PROJECT LOCATION MAP**  
N.T.S.  
**PROJECT LENGTH**  
NET AND GROSS LENGTH OF PROJECT = 342.41 FT. (0.07 MILES)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED October 19, 2020

VILLAGE OF MUNDELEIN

PASSED Oct 20, 2020

DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID  
BASED ON LIMITED REVIEW October 22, 2020

REGIONAL ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	ASPHALT PAVED		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOT AT THIS CHKD		

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756\_Sht\_06mno%e.dgn  
 FILE NAME: #80756\_Sht\_06mno%e.dgn  
 PEN TABLE: p06tbl.tbl

Index of Sheets	
1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS,
3	GENERAL NOTES
4-7	SUMMARY OF QUANTITIES
8	TYPICAL SECTIONS
9	ALIGNMENT, TIES AND BENCHMARKS
10	SITE STAGING PLAN
11	EXISTING CONDITIONS PLAN
12	EROSION CONTROL PLAN
13	SITE REMOVAL PLAN
14	DRAINAGE AND UTILITY REMOVAL PLAN
15	PROPOSED SITE AND GRADING PLAN
16	MCKINLEY AVENUE PLAN AND PROFILE
17	PROPOSED DRAINAGE AND UTILITY PLAN
18	PROPOSED DRAINAGE AND UTILITY TAGS
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State Standards	
Standard No.	List of Description
000001-08	STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
602001-02	CATCH BASIN, TYPE A
602011-02	CATCH BASIN, TYPE C
602406-11	PRECAST MANHOLE, TYPE A, 6' DIAMETER
602416-09	PRECAST MANHOLE, TYPE A, 8' DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-05	FRAMES & LIDS, TYPE 1
604036-03	GRATE TYPE 8
604051-04	FRAME & GRATE TYPE 11
606001-07	COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701801-06	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES



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DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS, AND DISTRICT ONE DETAILS**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	2
CONTRACT NO.			61F89	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**GENERAL NOTES**

- ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, APRIL 1, 2016. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).
- ALL ELEVATIONS SHOWN ON THE PLANS ARE ON THE NAVD88 DATUM.
- ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN ALONG RETURNS AND AT POINTS OF CURVATURE, ETC. ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- DRIVEWAYS ARE TO BE CONSTRUCTED TO THE R.O.W. UNLESS OTHERWISE NOTED.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE OR STATE PROPERTY WITHOUT WRITTEN CONSENT FROM THE VILLAGE OF MUNDELEIN OR THE DEPARTMENT.
- CONSTRUCTION WORK MAY BE PERFORMED MONDAY THRU FRIDAY DURING THE HOURS OF 7:00 A.M. TO 9:00 P.M. AND ON WEEKENDS FROM 8:00 A.M. TO 6:00 P.M. NO WORK MAY BE PERFORMED PRIOR OR BEYOND THIS PERIOD WITHOUT PRIOR WRITTEN APPROVAL FROM THE VILLAGE.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE WISCONSIN CENTRAL RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGGERS EMPLOYED BY THE RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD ROW MAY PROCEED, THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.

**STORM SEWERS, WATER MAINS, AND UTILITIES**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
- THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL COOPERATE WITH THE VILLAGE OF MUNDELEIN IF ANY UTILITY IMPROVEMENTS ARE REQUIRED BY THE VILLAGE WITHIN THE DURATION OF THE CONTRACT.
- OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY BASE LINE.
- UNLESS OTHERWISE NOTED, OFFSETS FOR DRAINAGE STRUCTURES LOCATED IN CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT AND OFFSETS FOR DRAINAGE STRUCTURES NOT LOCATED IN THE CURB AND GUTTER ARE TO THE CENTER OF THE STRUCTURE.
- WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ALL FRAMES, GRATES, LIDS, AND BOXES SCHEDULED TO BE REMOVED FROM EXISTING STRUCTURES SHALL REMAIN THE PROPERTY OF THE VILLAGE OF MUNDELEIN AND BE DELIVERED TO THE PUBLIC WORKS FACILITY AT 440 E. CRYSTAL STREET, AS APPLICABLE.
- THE INDISCRIMINATE USE OF FIRE HYDRANTS, EXISTING STREAMS, CREEKS, WETLANDS, OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS YARD, WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE CONTRACTOR PRIOR TO THE USE OF THE WATER.
- USE OF VILLAGE WATER WILL BE AVAILABLE AT THE PUBLIC WORKS FACILITY AT 440 E. CRYSTAL STREET TO USE WATER FOR DUST CONTROL, MIXING MORTAR, LANDSCAPE WATERING, CLEANING SEWERS, ETC. THE CONTRACTOR WILL PAY FOR THE QUANTITY OF WATER USED AT THE CURRENT RATE OF BILLING AND WILL NOT BE REIMBURSED FOR THE USE OF VILLAGE WATER. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO THE NEED OF WATER. THE VILLAGE OF MUNDELEIN WILL REQUIRE A CERTIFICATE OF INSURANCE TO USE THE WATER FILLING STATION AND THE CONTRACTOR WILL BE REQUIRED TO SETUP AN ACCOUNT.
- CONCRETE ADJUSTING RINGS WILL NOT BE PERMITTED. THE CONTRACTOR SHALL USE HDPE OR EPP IN ACCORDANCE WITH THE BDE SPECIAL PROVISION FOR ADJUSTING FRAMES AND GRATES.

- PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED A MINIMUM OF SIX INCHES (6") BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.
- STORM SEWERS SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 550.07, METHOD 1 ONLY.
- TRENCH BACKFILL SHALL CONSIST OF CA-6 CRUSHED STONE OR CRUSHED AGGREGATE.
- PROVIDE TRENCH BACKFILL FOR ALL UTILITY LINES WITHIN 2' OF PAVED AREAS. ALL TRENCH BACKFILL QUANTITIES FOR STORM SEWERS HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE, BASED ON PIPE SIZE AND INVERT DEPTH FROM SUBGRADE.

**EARTHWORK**

- SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS BEFORE REMOVAL OF ANY UNSUITABLE MATERIAL.
- PRIOR TO ANY EMBANKMENT PLACEMENT, ALL VEGETATION AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL AS APPROVED BY THE ENGINEER.
- THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
- ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

**SIGNING**

- SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.
- THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH THEIR CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED.

**SEDIMENTATION AND EROSION CONTROL**

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS, AND THE USE OF TEMPORARY AND PERMANENT MEASURES.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- TEMPORARY EROSION CONTROL SEEDING AND EROSION CONTROL BLANKET SHALL BE APPLIED ON ALL DISTURBED AREAS IN ACCORDANCE WITH SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF THE ACTIVE HYDROLOGIC DISTURBANCE, OR REDISTURBANCE IN ACCORDANCE WITH SECTIONS 250 AND 280 OF THE STANDARD SPECIFICATIONS.
- EROSION CONTROL SYSTEMS SHALL BE INSPECTED WEEKLY AND IMMEDIATELY FOLLOWING ANY STORM HAVING A RAINFALL EQUAL TO ONE-HALF INCH OR GREATER. ANY REQUIRED REPAIRS TO THE EROSION CONTROL SYSTEMS SHALL BE MADE IMMEDIATELY. ANY SILTATION OF CULVERTS, STRUCTURES, OR DITCHES SHALL BE CLEANED AND MAINTAINED BY THE CONTRACTOR UNTIL SEEDING HAS TAKEN HOLD. ALL WASHOUTS, GULLIES, ETC. WILL BE REGRADED AND RESEDED BY THE CONTRACTOR.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED AS DIRECTED BY THE ENGINEER.
- ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY, OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT OR AS DIRECTED BY THE ENGINEER AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES. IF DE-WATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
- THE EROSION CONTROL MEASURES INDICATED IN THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SWEEPING AND CLEANING STREETS OF ANY DEBRIS AND MATERIAL THAT HAS ACCUMULATED AS A RESULT OF THE CONSTRUCTION ACTIVITY. A MECHANICAL SWEEPER, MECHANICALLY DRIVEN AIR AND HANDWORK WITH SHOVEL AND BROOM SHALL BE UTILIZED TO PROVIDE A CLEAN STREET FOR THE MOTORING PUBLIC.

**LANDSCAPING**

- THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PLANT MATERIAL WITH THE INSTALLATION OF OTHER IMPROVEMENTS SUCH AS HARDSCAPE ELEMENTS AND UTILITIES. ANY DAMAGE TO EXISTING IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL STAKE ALL TREE AND SHRUB LOCATIONS AND THE PERIMETER OF LANDSCAPING BEDS PRIOR TO INSTALLATION AND CONTACT THE RESIDENT ENGINEER FOR APPROVAL. FINAL LOCATION AND STAKING OF ALL PLANT MATERIALS SHALL BE APPROVED BY THE RESIDENT ENGINEER IN ADVANCE OF PLANTING. IF CONFLICTS ARISE BETWEEN THE SIZE OF AREAS AND PLANS, THE CONTRACTOR IS REQUIRED TO CONTACT THE RESIDENT ENGINEER FOR RESOLUTION PRIOR TO INSTALLATION.
- ALL PLANTS SHALL BE NURSERY GROWN PLANTS MEETING AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA) STANDARDS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1-2004). PLANTS ARE TO BE TYPICAL IN SHAPE AND SIZE FOR SPECIES. PLANTS PLANTED IN ROWS OR GROUPS SHALL BE MATCHED IN FORM. PLANTS SHALL NOT BE ROOT-BOUND OR LOOSE IN THEIR CONTAINERS. HANDLE ALL PLANTS WITH CARE IN TRANSPORTING, PLANTING AND MAINTENANCE UNTIL INSPECTION AND FINAL ACCEPTANCE.

**SEQUENCE OF CONSTRUCTION**

- THE CONTRACTOR SHALL PERFORM HIS WORK IN A MANNER CAUSING MINIMAL INCONVENIENCE TO THE RESIDENTS AND MOTORING PUBLIC.

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE	
	NOT AT THIS OFFICE	
	BY	

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756, Srt., Gernmo@e.dgn  
 FILE NAME: 12-00097-00-BR.dwg  
 PEN TABLE: p00f06b04r.tbl



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DRAWN - WJH	REVISED -
CHECKED - JJS	REVISED -
DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	3
CONTRACT NO.			61F89	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	DATE
BY	
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NOTE BOOK	
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PROFILE	DATE
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NOTE BOOK	
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HRC PROJECT NO. 180756  
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 FILE NAME: 180756\_Sht\_S00.dgn  
 PLOT DRIVER: ilprof.dwgplotter  
 PEN TABLE: plottable.tbl

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				CMAQ 80% FED/20% LOCAL 0021	
20200100	EARTH EXCAVATION	CU YD	400	400	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	445	445	
20400800	FURNISHED EXCAVATION	CU YD	2,740	2,740	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	350	350	
20800150	TRENCH BACKFILL	CU YD	115	115	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	811	811	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	710.0	710.0	
+ 25200110	SODDING, SALT TOLERANT	SQ YD	9,890.0	9,890.0	
+ * 25200200	SUPPLEMENTAL WATERING	UNIT	611	611	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	205	205	
28000305	TEMPORARY DITCH CHECKS	FOOT	30.0	30.0	
28000400	PERIMETER EROSION BARRIER	FOOT	1,070.0	1,070.0	
28000510	INLET FILTERS	EACH	11	11	
* 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1,565.0	1,565.0	
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	1,115.0	1,115.0	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4,580	4,580	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	296	296	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	235	235	
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	170	170	
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	7,495.0	7,495.0	
* 42400800	DETECTABLE WARNINGS	SQ FT	75.0	75.0	
44000100	PAVEMENT REMOVAL	SQ YD	1,245.0	1,245.0	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	850.0	850.0	

\* SPECIAL PROVISION  
+ SPECIALTY ITEM



DESIGNED - JJS	REVISED -
DRAWN - WJH	REVISED -
CHECKED - JJS	REVISED -
DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES</b>			
SCALE: NTS	SHEET 1	OF 4 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	4
FED. ROAD DIST. NO.			CONTRACT NO. 61F89	
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	STRUCTURE NOTATION CHECKED	
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PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	STRUCTURE NOTATION CHECKED	

HRG PROJECT NO. 180756  
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 FILE NAME: IL\_097.dwg  
 PLOT DRIVER: plot100tbl.tbl  
 PEN TABLE:

44000600	SIDEWALK REMOVAL	SQ FT	4,805.0	4,805.0
50200100	STRUCTURE EXCAVATION	CU YD	1,096	1,096
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	350	350
50300225	CONCRETE STRUCTURES	CU YD	147	147
50300255	CONCRETE SUPERSTRUCTURE	CU YD	139	139
* 50300285	FORM LINER TEXTURED SURFACE	SQ FT	7,592	7,592
50300300	PROTECTIVE COAT	SQ YD	1,236.0	1,236.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	92,451	92,451
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	40.0	40.0
51200958	FURNISHING METAL SHELL PILES 14" X 0.250"	FOOT	936.0	936.0
51202305	DRIVING PILES	FOOT	976.0	976.0
51203200	TEST PILE METAL SHELLS	EACH	2	2
52200500	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	12,541.0	12,541.0
58700300	CONCRETE SEALER	SQ FT	99.0	99.0
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	123.0	123.0
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	98.0	98.0
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	299.0	299.0
* 55100500	STORM SEWER REMOVAL 12"	FOOT	139.0	139.0
* 55100900	STORM SEWER REMOVAL 18"	FOOT	104.0	104.0
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	180.0	180.0
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1
* 60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1
* 60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	3	3
* 60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1

\* SPECIAL PROVISION  
 + SPECIALTY ITEM



**KMI**  
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 ARCHITECTS & ENGINEERS  
 223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
 TEL: (312) 467-4600 FAX: (312) 237-6292

DESIGNED -	JJS	REVISED -	
DRAWN -	WJH	REVISED -	
CHECKED -	JJS	REVISED -	
DATE -	10/5/2020	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES</b>			
SCALE: NTS	SHEET 2	OF 4	SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	5
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F89	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	AS BUILT CHECKED		
	CADD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

HRG PROJECT NO.: #0756  
 HRG PROJ CONTACT: #0756, ENR, S00, dph  
 PLOT DRIVER: IL, 12/14/2019, 10:15:19  
 PEN TABLE: P00, P00B, L00

* 60224020	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1
60255500	MANHOLES TO BE ADJUSTED	EACH	5	5
60500040	REMOVING MANHOLES	EACH	6	6
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	870.0	870.0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12
67100100	MOBILIZATION	L SUM	1	1
* 70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1
+ 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1
+ 82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1	1
+ 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	153.0	153.0
+ 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	14	14
+ 84200804	REMOVAL OF POLE FOUNDATION	EACH	16	16
+ 89502376	REBUILD EXISTING HANDHOLE	EACH	1	1
+ A2000120	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	6	6
+ A2006916	TREE, QUERCUS PALUSTRIS (PIN OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4
+ B2000767	TREE, AMELANCHIER X GRANDIFLORA AUTUMN BRILLIANCE (AUTUMN BRILLIANCE SERVICE BERRY), 8' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	6	6
+ C2008024	SHRUB, ROSA MEIPOQUE (PINK MEIDILAND ROSE), 24" HEIGHT, CONTAINER	EACH	56	56
+ D2003636	EVERGREEN, TAXUS X MEDIA HICKSII (HICKS ANGLOJAPANESE YEW), 3' WIDTH, BALLED AND BURLAPPED	EACH	48	48
+ K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	10	10
X0322463	CONNECTION TO EXISTING SEWER	EACH	3	3
* X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	1,234	1,234
+ X0326672	PEDESTRIAN BRIDGE LIGHTING SYSTEM	L SUM	1	1
X0326806	WASHOUT BASIN	L SUM	1	1
* X0326864	BRICK SIDEWALK REMOVAL	SQ FT	1,565.0	1,565.0
X0327487	TRIAxIAL GEOGRID REINFORCEMENT, TYPE I	SQ YD	1,362.0	1,362.0

\* SPECIAL PROVISION  
 + SPECIALTY ITEM



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DATE -	10/5/2020	REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET 3	OF 4 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	6
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61F89		

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNMENT CHECKED		
	ADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

HRC PROJECT NO. 180156  
 HRC PROJ CONTACT: 180156\_S01\_S02.dgn  
 FILE NAME: IL\_Loaf.dwg  
 PLOT DRIVER: plot10tbl.tbl  
 PEN TABLE:

+ *	X0327808	PLANTING SOIL MIX FURNISH AND PLACE, 18"	SQ YD	70.0	70.0
*	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	250.0	250.0
*	X4240440	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH, SPECIAL	SQ FT	5,461.0	5,461.0
*	X5030290	STAINING CONCRETE STRUCTURES	SQ FT	3,859	3,859
*	X6640200	TEMPORARY CHAIN LINK FENCE	FOOT	625.0	625.0
*	X8780105	CONCRETE FOUNDATIONS (SPECIAL)	EACH	8	8
+ *	Z0007124	STEEL RAILING (SPECIAL)	FOOT	1,372.0	1,372.0
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
*	Z0018800	DRAINAGE SYSTEM	L SUM	1	1
*	Z0022800	FENCE REMOVAL	FOOT	180.0	180.0
*	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	940.0	940.0
*	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
# *	Z0076600	TRAINEES	HOURL	500	500
# *	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	500	500
*	XX004951	CONCRETE STAIRS	L SUM	1	1
*	XX005283	BRICK PAVER CROSSWALK	SQ FT	500.0	500.0
+ *	XX006751	STAIR RAILING	FOOT	240.0	240.0
+ *	XX009361	MULCH, SPECIAL	SQ YD	480.0	480.0

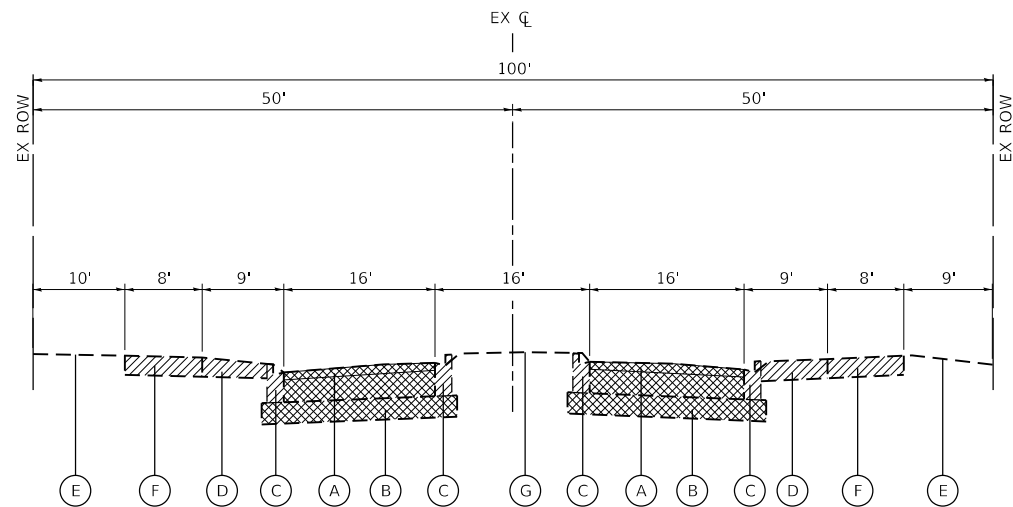
#0042  
 \* SPECIAL PROVISION  
 + SPECIALTY ITEM

HRGreen.com Illinois Professional Design Firm # 184-001322	KMI Katsouni Mehdi Inc. ARCHITECTS & ENGINEERS 223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606 TEL: (312) 587-6800 FAX: (312) 587-6810	DESIGNED - JJS	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>		F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - WJH	REVISED -		SCALE: NTS    SHEET 4 OF 4 SHEETS    STA.    TO STA.		N/A	12-00097-00-BR	LAKE	65	7
		CHECKED - JJS	REVISED -				CONTRACT NO. 61F89		FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT		
		DATE - 10/5/2020	REVISED -								

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOT AT THIS CHKD	
	NOTE BOOK NO.	
	FILE NAME	
	BY	
	CHECKED	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOT AT THIS CHKD	
	NOTE BOOK NO.	
	FILE NAME	
	BY	
	CHECKED	
	DATE	

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756\_Sht. 1\_Typ.dgn  
 FILE NAME: 12-00097-00-01.dwg  
 PEN TABLE: p01tbl.tbl



**EXISTING TYPICAL SECTION**

MCKINLEY AVENUE STA. 11+57.79 TO STA. 13+51.91

**NOTES:**

IT IS ANTICIPATED THE CONTRACTOR WILL USE THE EXISTING MCKINLEY AVENUE PAVEMENT FOR TEMPORARY ACCESS DURING CONSTRUCTION.

THE AVERAGE DEPTH OF PAVEMENT REMOVAL IS 8" TO 11" AS SHOWN ON THE TYPICAL SECTIONS AND SOIL BORING RESULTS. HOWEVER NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR PAVEMENT REMOVAL FOR VARIANCES IN THICKNESS/MATERIAL TYPES OR EXCAVATION AND DISPOSAL OF EXCESS MATERIALS.

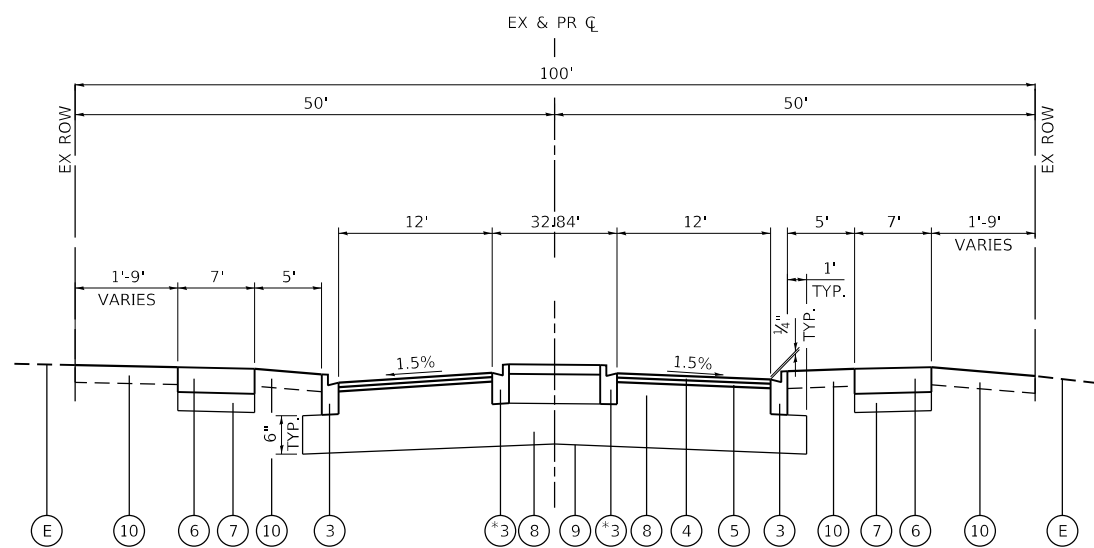
**EXISTING LEGEND**

- (A) HOT-MIX ASPHALT PAVEMENT; 3" TO 5"
- (B) AGGREGATE BASE COURSE, 5" TO 6"
- (C) COMBINATION CONCRETE CURB AND GUTTER
- (D) EXISTING BRICK SIDEWALK
- (E) EXISTING GROUND
- (F) EXISTING PCC SIDEWALK; 6"
- (G) EXISTING LANDSCAPED MEDIAN TO BE REMOVED

- INDICATES PAVEMENT REMOVAL
- INDICATES REMOVAL ITEM

**PROPOSED LEGEND**

- (1) OMITTED
- (2) OMITTED
- (3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 WITH 2-#4 BARS CONTINUOUS (MINIMUM FLAG THICKNESS OF 10 INCHES)
- (4) HMA SURFACE COURSE, IL-9.5, MIX "D", N50; 2"
- (5) HMA BINDER COURSE, IL-19.0, N50; 3"
- (6) PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH
- (7) AGGREGATE BASE COURSE, TYPE B 4" (CA-6 CRUSHED GRAVEL OR CRUSHED STONE)
- (8) AGGREGATE SUBGRADE IMPROVEMENT, 12" (SQ YD)
- (9) TRIAXIAL GEOGRID, TYPE I
- (10) SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 4"



**PROPOSED TYPICAL SECTION**

MCKINLEY AVENUE STA. 11+83.69 TO STA. 13+51.91  
 \* DENOTES REVERSE GUTTER FLAG

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
<b>RECONSTRUCTION</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 2"	4.0% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 3"	4.0% @ 50 GYR.
<b>MULTI-USE PATH</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 2"	4.0% @ 50 GYR.

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY THE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.



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DESIGNED - JJS	REVISED -
DRAWN - WJH	REVISED -
CHECKED - JJS	REVISED -
DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS - MCKINLEY AVENUE**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

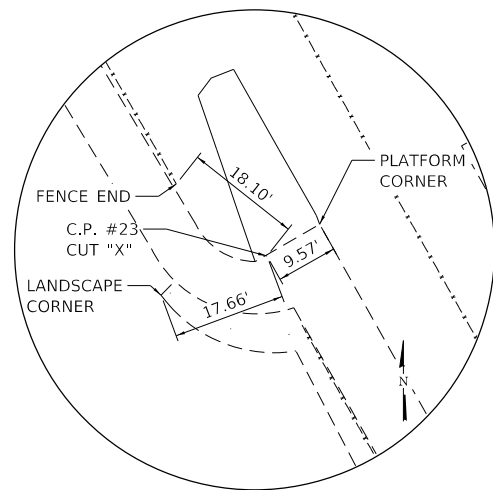
F.A.U. R.E.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	8
FED. ROAD DIST. NO.			CONTRACT NO. 61F89	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
FILE NAME	
FILE NUMBER	
FILE TABLE	
PLAN	
NOTE BOOK	
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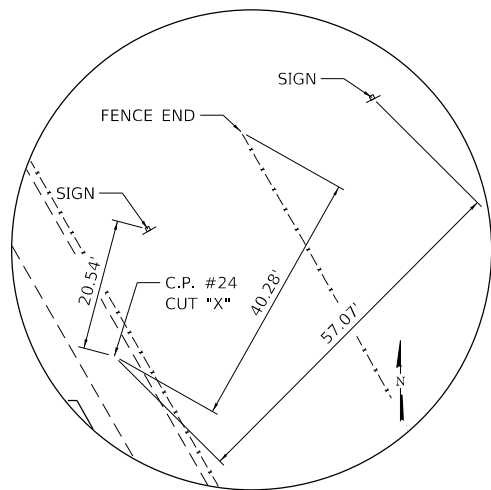
DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
NOTE BOOK	
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STRUCTURE	
NOTATIONS	
PROFILE	
NOTE BOOK	
NO.	

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756\_Sht-A1B.dgn  
 FILE NUMBER: #80756  
 FILE TABLE: #80756

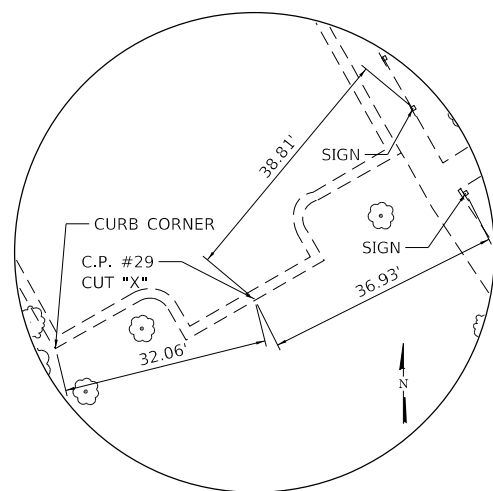
CONTROL POINT #23  
 N: 2040304.2030  
 E: 1074873.5950



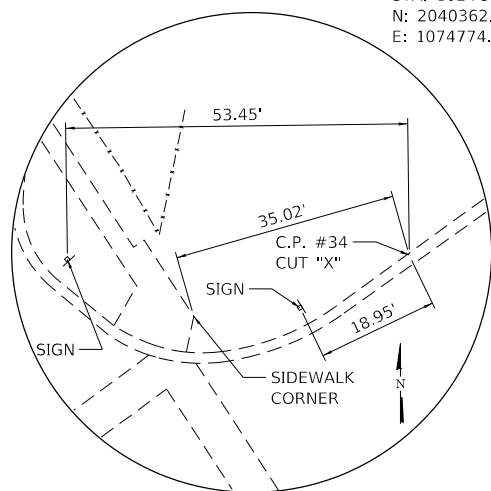
CONTROL POINT #24  
 N: 2040416.1620  
 E: 1074796.7220



CONTROL POINT #29  
 N: 2040395.8930  
 E: 1074945.8760



CONTROL POINT #34  
 N: 2040446.5050  
 E: 1075204.5790



**CURVE DATA**

PROP. CURVE RAMP 1  
 PI STA. = 107+22.21  
 $\Delta = 89^\circ 59' 59''$  (RT)  
 $D = 747^\circ 19' 59''$   
 $R = 7.67'$   
 $T = 7.67'$   
 $L = 12.04'$   
 $E = 3.18'$   
 $e = \_\_\_\_\_\_$   
 T.R. =  $\_\_\_\_\_\_$   
 S.E. RUN =  $\_\_\_\_\_\_$   
 P.C. STA = 107+14.54  
 P.T. STA = 107+26.58

PROP. CURVE RAMP 2  
 PI STA. = 107+34.25  
 $\Delta = 90^\circ 00' 00''$  (RT)  
 $D = 747^\circ 19' 59''$   
 $R = 7.67'$   
 $T = 7.67'$   
 $L = 12.04'$   
 $E = 3.18'$   
 $e = \_\_\_\_\_\_$   
 T.R. =  $\_\_\_\_\_\_$   
 S.E. RUN =  $\_\_\_\_\_\_$   
 P.C. STA = 107+26.58  
 P.T. STA = 107+38.63

PROP. CURVE RAMP 3  
 PI STA. = 108+46.29  
 $\Delta = 90^\circ 00' 00''$  (RT)  
 $D = 747^\circ 20' 11''$   
 $R = 7.67'$   
 $T = 7.67'$   
 $L = 12.04'$   
 $E = 3.18'$   
 $e = \_\_\_\_\_\_$   
 T.R. =  $\_\_\_\_\_\_$   
 S.E. RUN =  $\_\_\_\_\_\_$   
 P.C. STA = 108+38.63  
 P.T. STA = 108+50.67

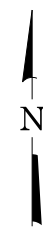
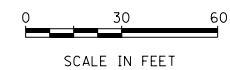
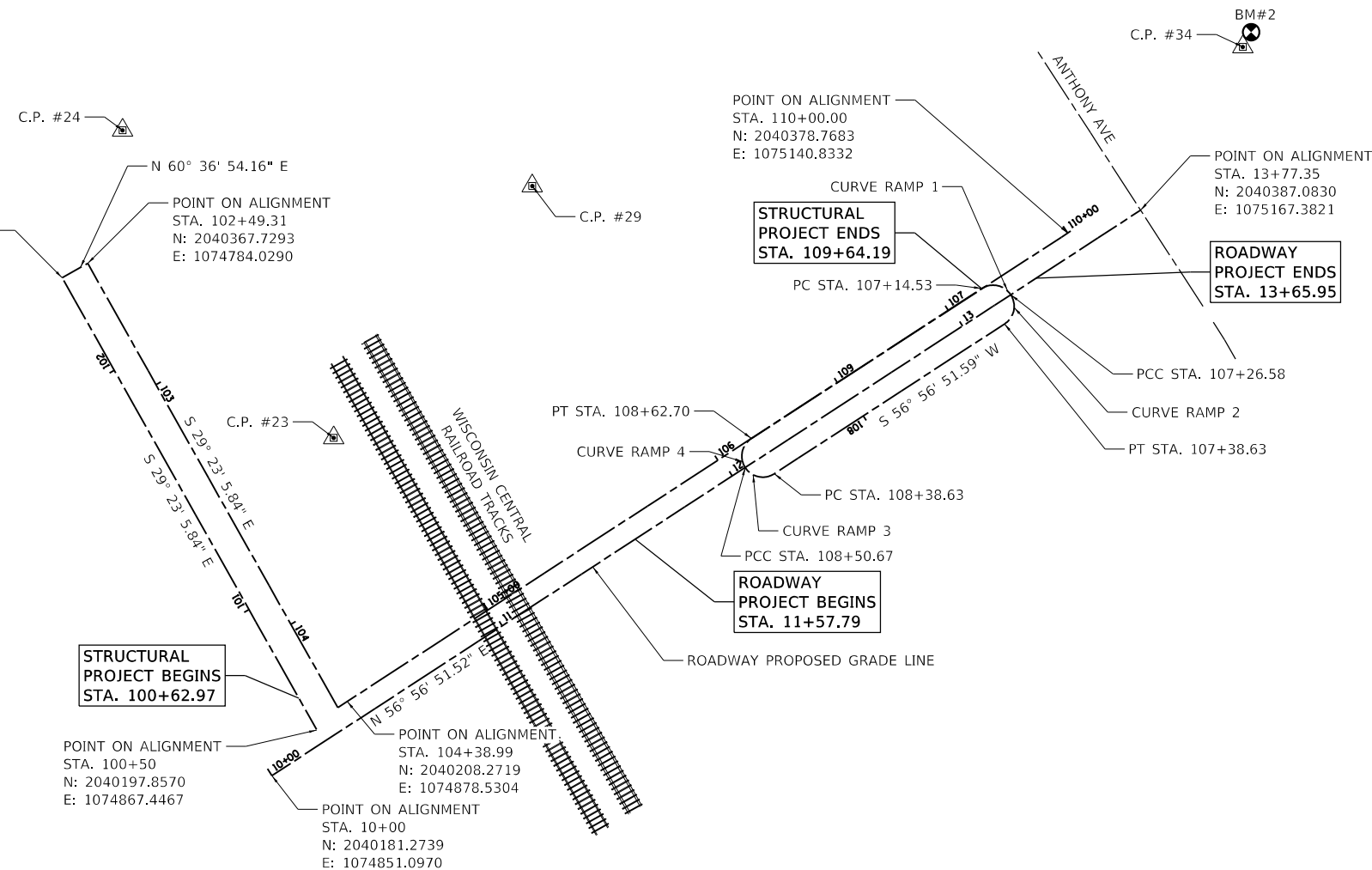
PROP. CURVE RAMP 4  
 PI STA. = 108+58.33  
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 $R = 7.66'$   
 $T = 7.67'$   
 $L = 12.04'$   
 $E = 3.18'$   
 $e = \_\_\_\_\_\_$   
 T.R. =  $\_\_\_\_\_\_$   
 S.E. RUN =  $\_\_\_\_\_\_$   
 P.C. STA = 108+50.67  
 P.T. STA = 108+62.70

**BENCHMARKS**

BENCHMARK #1: CUT SQUARE IN CONCRETE BASE OF LIGHT POLE LOCATED APPROXIMATELY 840 FEET WEST OF CENTERLINE OF THE RAILROAD TRACKS ALONG THE NORTH OF THE MUNDELEIN METRA STATION PARCEL. ELEVATION = 742.60 (NAVD88)

BENCHMARK #2: ARROW BOLT ON FIRE HYDRANT LOCATED AT THE NORTH CORNER OF THE INTERSECTION OF MCKINLEY AVENUE AND ANTHONY AVENUE. ELEVATION = 751.06 (NAVD88)

BM#1



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DESIGNED	- JJS	REVISED	-
DRAWN	- WJH	REVISED	-
CHECKED	- JJS	REVISED	-
DATE	- 10/5/2020	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS**

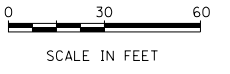
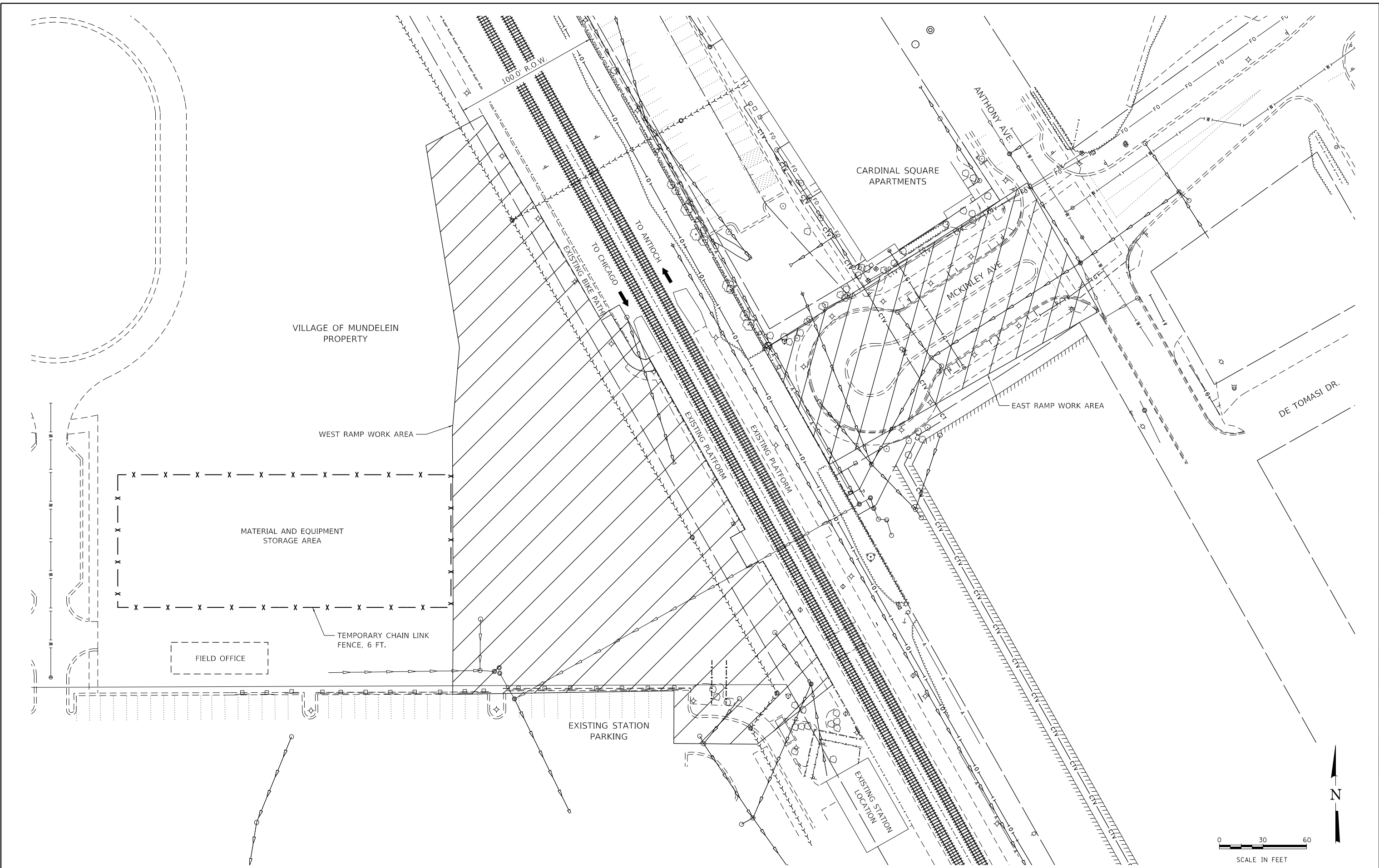
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F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	9
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F89	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	FILE NAME	
	TABLE	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	BY	
	FILE NAME	
	TABLE	

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756\_Site\_Stage.dgn  
 FILE NAME: #80756\_Site\_Stage.dgn  
 PEN TABLE: pen.tbl



DESIGNED -	JJS	REVISED -	
DRAWN -	WJH	REVISED -	
CHECKED -	JJS	REVISED -	
DATE -	10/5/2020	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SITE STAGING PLAN**

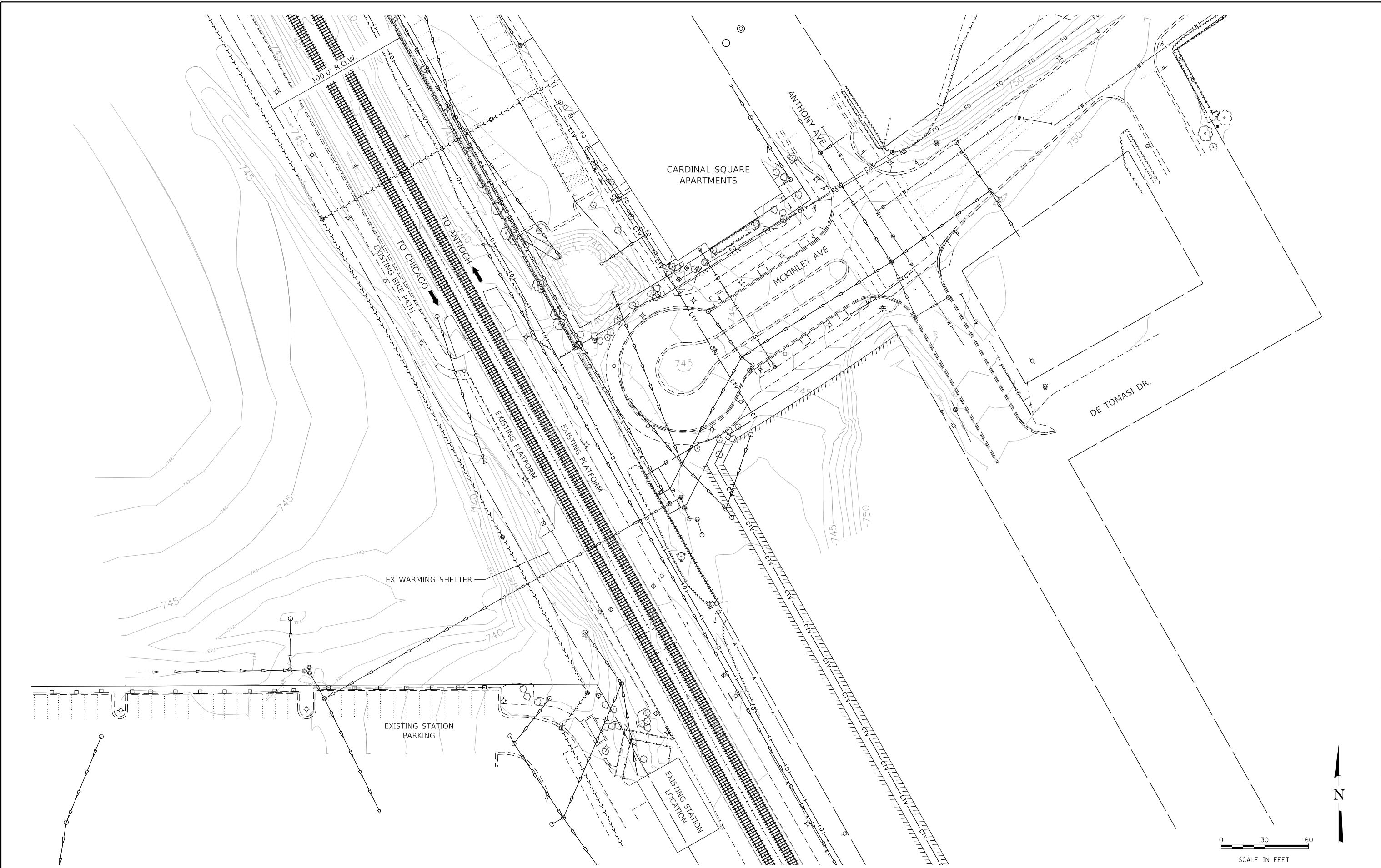
SCALE: 1"=30' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	10
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F89	

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNMENT	
	CHECKED	
	BY	
	FILE NAME	
	TABLET	
	DATE	

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES	BY
NO.	CHECKED	
	BY	
	FILE NAME	
	TABLET	
	DATE	

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756\_Sht-Ex-Site.dgn  
 FILE NAME: #80756\_Sht-Ex-Site.dgn  
 PEN TABLE: p01tbl.tbl



**KMI**  
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 223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
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DESIGNED - JJS	REVISED -
DRAWN - WJH	REVISED -
CHECKED - JJS	REVISED -
DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING CONDITIONS PLAN**

SCALE: 1"=30'    SHEET 1 OF 1 SHEETS    STA.    TO STA.

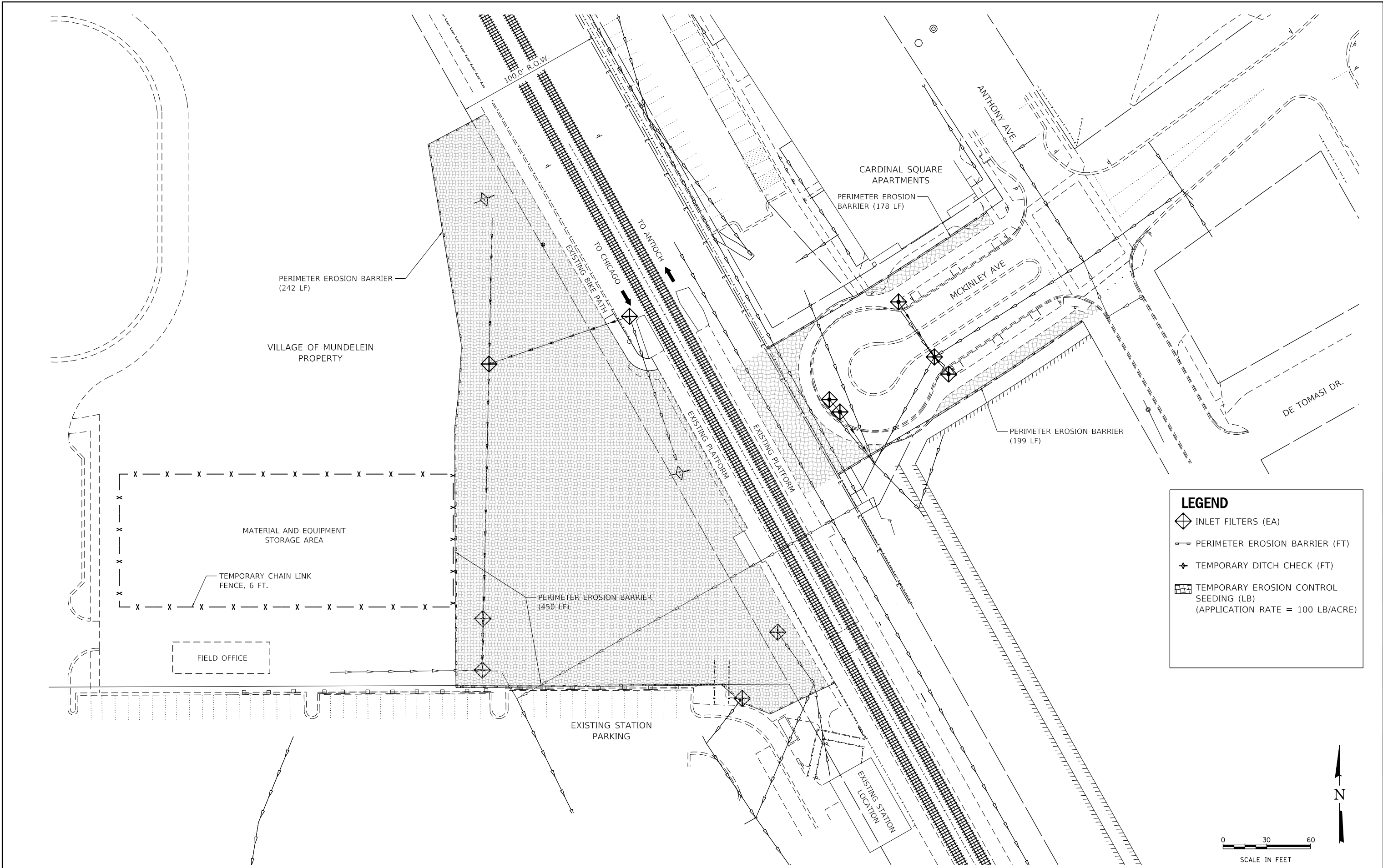
F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	11
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F89	



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
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	BY	
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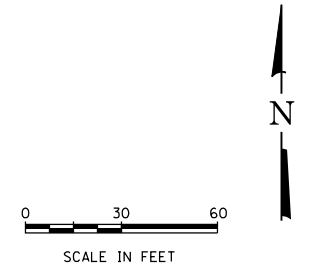
PROFILE	SURVEYED	DATE
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	GRADES CHECKED	
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	NO. _____	
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	TABLE	

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756\_Sht-Erosion Control/Plan.dgn  
 FILE NAME: #80756\_Sht-Erosion Control/Plan.dgn  
 PEN TABLE: #80756\_Sht-Erosion Control/Plan.dgn



**LEGEND**

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY DITCH CHECK (FT)
- TEMPORARY EROSION CONTROL SEEDING (LB)  
(APPLICATION RATE = 100 LB/ACRE)



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DESIGNED -	JJS	REVISED -	
DRAWN -	WJH	REVISED -	
CHECKED -	JJS	REVISED -	
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**

SCALE: 1"=30'    SHEET 1 OF 1 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	12
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F89	

PLAN	SURVEYED	DATE
	PLOTTED	
NOTE BOOK NO.	CHECKED	
	FILE NAME	
	FILE NAME	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	
NOTE BOOK NO.	CHECKED	
	FILE NAME	
	FILE NAME	
	DATE	

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756\_Sht\_1-Rem-S17e.dgn  
 FILE NAME: #80756\_Sht\_1-Rem-S17e.dgn  
 PEN TABLE: p01tbl.tbl



**KMI**  
 Katsouni Mehd, Inc.  
 ARCHITECTS • ENGINEERS  
 223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
 Tel.: (312)987-8900 Fax: (312)987-8892

DESIGNED - JJS	REVISED -
DRAWN - WJH	REVISED -
CHECKED - JJS	REVISED -
DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SITE REMOVAL PLAN**

SCALE: 1"=30' SHEET 1 OF 1 SHEETS STA. TO STA.

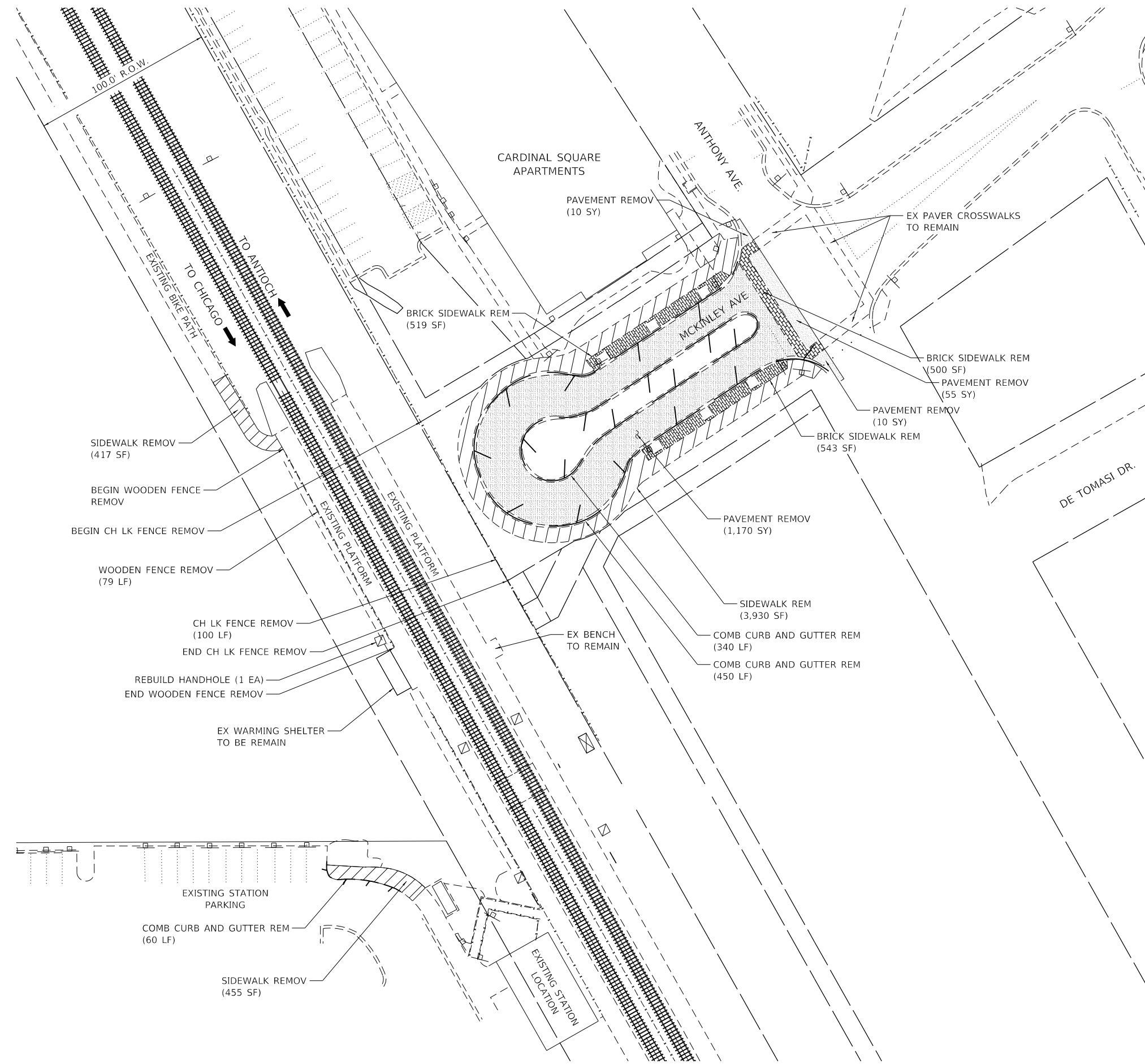
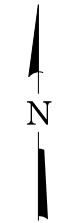
F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	13
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F89	

**REMOVAL NOTES:**  
 THE AVERAGE DEPTH OF PAVEMENT REMOVAL IS 8" TO 11". NO COMPENSATION WILL BE GRANTED FOR PAVEMENT REMOVAL VARIANCE IN THICKNESS OR MATERIAL TYPES.

AT-GRADE CROSSING TO BE REMOVED AT A LATER DATE BY THE RAILROAD.

**LEGEND**

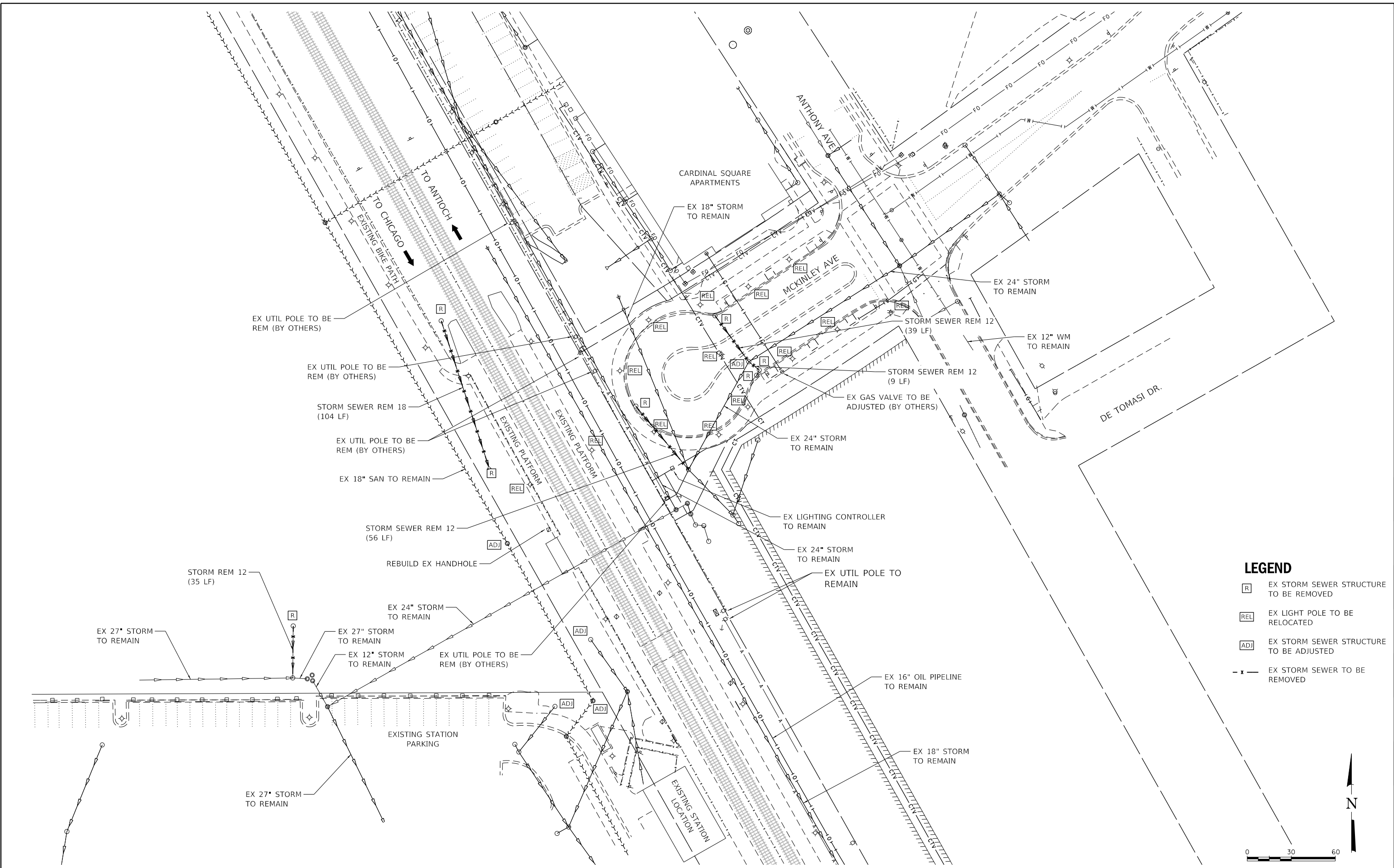
	EX TREE TO BE REMOVED
	EX CURB AND GUTTER TO BE REMOVED
	EX SIDEWALK TO BE REMOVED
	BRICK SIDEWALK REMOVAL
	PAVEMENT REMOVAL



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
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	DATE	
	NO.	

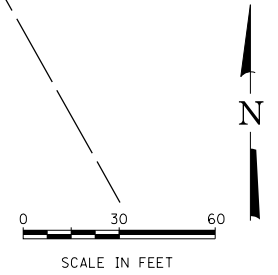
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	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOT AT THIS CHORD	
	BY	
	DATE	
	NO.	

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756\_Sht-Rem-Drainage.dgn  
 FILE NAME: #80756\_Sht-Rem-Drainage.dgn  
 PEN TABLE: p01tbl.tbl



**LEGEND**

[R]	EX STORM SEWER STRUCTURE TO BE REMOVED
[REL]	EX LIGHT POLE TO BE RELOCATED
[ADJ]	EX STORM SEWER STRUCTURE TO BE ADJUSTED
- x -	EX STORM SEWER TO BE REMOVED



DESIGNED	- JJS	REVISED	-
DRAWN	- WJH	REVISED	-
CHECKED	- JJS	REVISED	-
DATE	- 10/5/2020	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

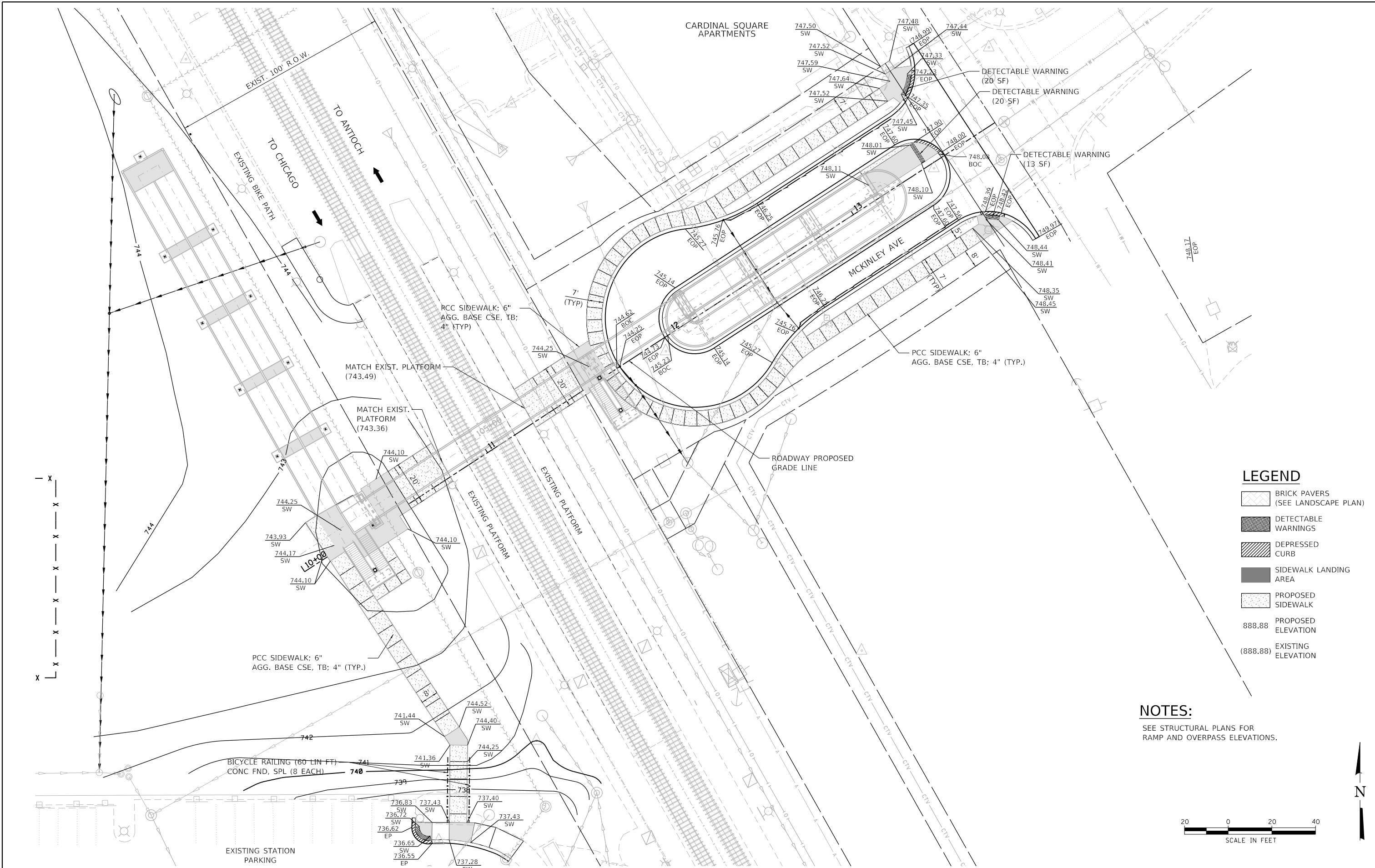
<b>DRAINAGE AND UTILITY REMOVAL PLAN</b>			
SCALE: 1"=30'	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	14
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F89	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.:	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.:	

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756, Srt.-Grading.dgn  
 FILE NAME: 12-00097-00-01.dwg  
 PEN TABLE: pcc.tbl



**LEGEND**

	BRICK PAVERS (SEE LANDSCAPE PLAN)
	DETECTABLE WARNINGS
	DEPRESSED CURB
	SIDEWALK LANDING AREA
	PROPOSED SIDEWALK
888.88	PROPOSED ELEVATION
(888.88)	EXISTING ELEVATION

**NOTES:**  
 SEE STRUCTURAL PLANS FOR RAMP AND OVERPASS ELEVATIONS.



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DATE -	10/5/2020	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SITE AND GRADING PLAN**

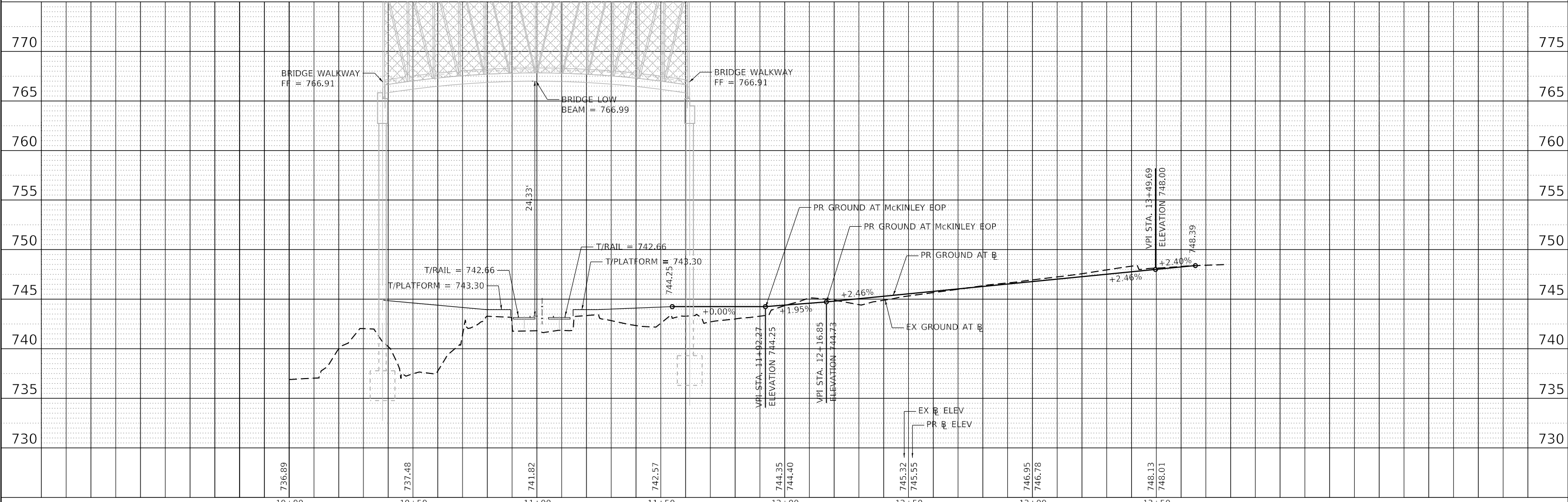
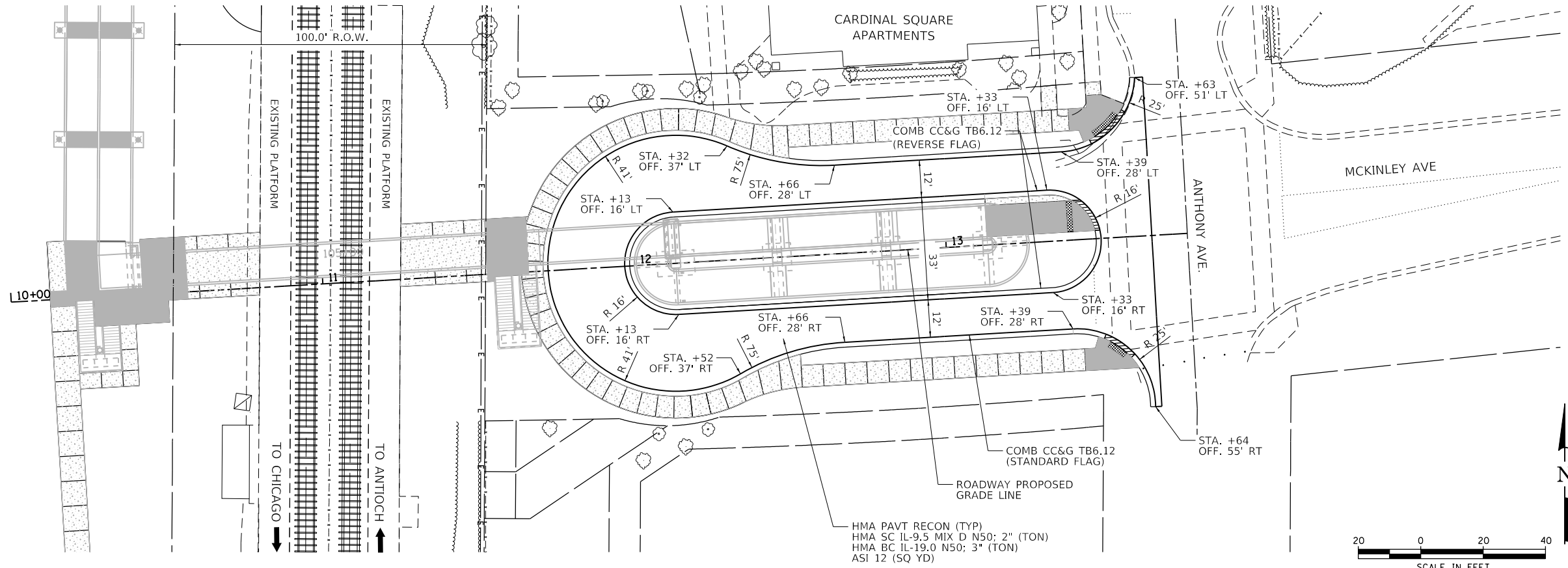
SCALE: 1"=20'	SHEET 1	OF 1	SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	15
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F89	

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	ALIGNED	
	CHECKED	
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	NO. _____	
	FILE NAME	
	CARD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	
	FILE NAME	
	FILED	

HRG PROJECT NO.: #0756  
 HRG PROJ. CONTACT: #0756\_Sht\_Prof.dgn  
 FILE NUMBER: 12-00097-00-BR  
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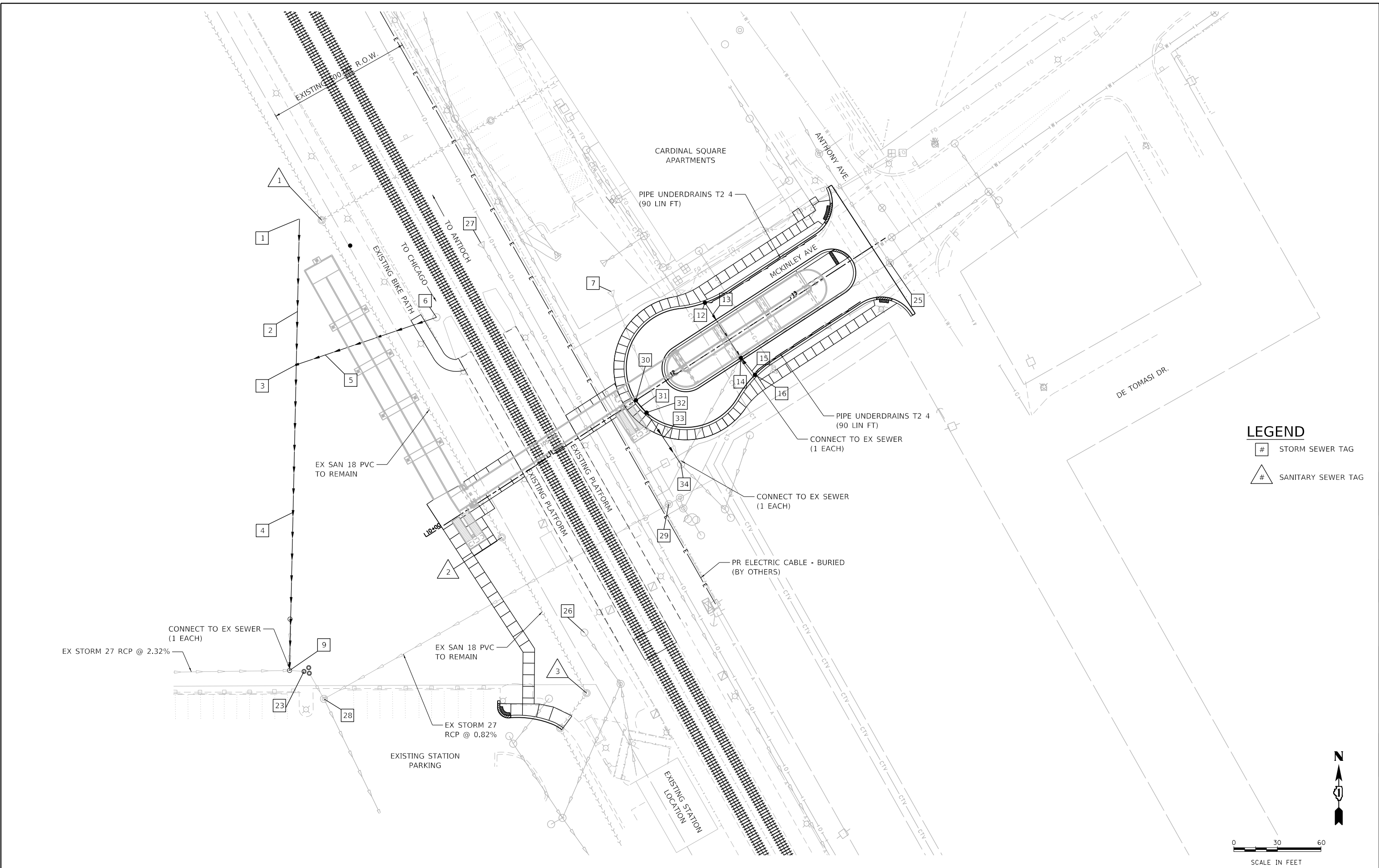
DESIGNED - JJS	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MCKINLEY AVENUE PLAN AND PROFILE</b>	F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - WJH	REVISED -			N/A	12-00097-00-BR	LAKE	65	16
CHECKED - JJS	REVISED -			CONTRACT NO. 61F89				
DATE - 10/5/2020	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
	PLOTTED	
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	CHECKED	
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	FILE NAME	

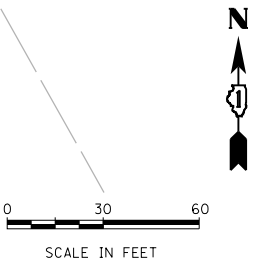
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	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	BY	
	DATE	
	NO.	
	FILE NAME	

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756\_Sht-Pr-Drainage.dgn  
 FILE NAME: #80756\_Sht-Pr-Drainage.dgn  
 PEN TABLE: pen.tbl



**LEGEND**

#	STORM SEWER TAG
△	SANITARY SEWER TAG



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CHECKED	-	JJS	REVISED	-
DATE	-	10/5/2020	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED DRAINAGE AND UTILITY PLAN**

SCALE: 1"=30'    SHEET 1 OF 1 SHEETS    STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	17
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 61F89

### SANITARY SEWER TAGS

SANITARY STRUCTURE SCHEDULE									
STR. ID	STATION	OFFSET	GEOPAK ALIGNMENT	STRUCTURE TYPE	MANHOLES, RIM EL.	SANITARY INVERTS			
						NORTH	WEST	SOUTH	EAST
1	10+58.6	-221.95	PR-MCK	EX SAN MH	743.81	723.67	735.15	723.67	
2	10+43.4	28.81	PR-MCK	EX SAN MH	736.11	722.36		722.36	
3	10+33.9	150.45	PR-MCK	EX SAN MH	736.25	720.13	720.13		

### STORM SEWER TAGS

PROPOSED STORM STRUCTURE SCHEDULE										
STR. ID	STATION	OFFSET	GEOPAK ALIGNMENT	STRUCTURE TYPE	MANHOLES, CB & INLETS RIM ELEV.	STORM SEWER INVERTS				NOTES
						NORTH	EAST	SOUTH	WEST	
1	102+47.9	-38	RAMP_ALT3	PRC FES 24				742.50		
3	101+90.7	-42.2	RAMP_ALT3	MAN TA 6 DIA T1F CL	744.95	740.66	737.72	737.72		
6	103+21.4	-42.6	RAMP_ALT3	CB TC T8G	741.62				738.50	
7	11+98.8	-72.25	PR-MCK	EX FES 18		EX 738.14				
9	100+50	-149.5	RAMP_ALT3	EX CB	742.47	736.17	EX 731.82		EX 736.07	MAINTAIN EX NORTH INV. ENLARGE TO ACCOMMODATE PR 24" PIPE.
12	12+48.76	-30.38	PR-MCK	CB TC T11 F&G	745.22			742.05		
14	12+48.76	14.77	PR-MCK	MAN TA 6 DIA T11 F&G	745.53	741.67	EX 734.17	741.67	EX 734.02	CONNECT TO EX (2)
16	12+50.55	29.99	PR-MCK	CB TC T11 F&G	745.24			742.05		
23	0+74.07	-0.80	RAMP-W-MSE	EX RESTRICTOR MH	EX 741.31	731.61				EX INV (W) AT 731.61 TO BE PATCHED. RIM ADJUST TO 741.95
25	13+70.5	16.04	PR-MCK	EX MH	748.69	734.44	735.69	744.59	734.40	
26	10+55.3	114.67	PR-MCK	EX CB	EX 734.97					RIM ADJUST TO 739.75
27	11+41.93	-148.99	PR-MCK	EX FES 18		738.30				
28	0+87.77	18.18	RAMP-W-MSE	EX MH	EX 740.63	EX 730.81	EX 725.63	EX 725.33		RIM ADJUST TO 741.03
29	11+52.3	72.25	PR-MCK	EX MH	EX 743.19	EX 732.49	EX 727.89		EX 727.84	
30	11+92.27	0	PR-MCK	CB TC T11 F&G	744.25			741.05		
32	11+93.78	11.1	PR-MCK	CB TA 4 DIA T11 F&G	744.35	740.87		740.87		
34	11+74.27	53.92	PR-MCK	EX MH	742.90	737.90	EX 733.80	EX 733.80	EX 737.90	EX INV (NW) AT 737.90 TO BE PATCHED

PROPOSED STORM PIPE SCHEDULE							
ID NUMBER	LOCATION		SLOPE %	TRENCH BACKFILL (CU YD)	STORM SEWERS CLASS A, TYPE 1		STORM SEWERS CLASS A, TYPE 2
	UPSTREAM STRUCTURE ID NUMBER	DOWNSTREAM STRUCTURE ID NUMBER			12" (FOOT)	18" (FOOT)	24" (FOOT)
2	1	3	2.00%	41.4			92.0
4	3	9	1.00%				207.0
5	6	1	0.80%	44.1		98.0	
13	12	14	0.76%	11.8	45.0		
15	16	14	2.00%	4.5	15.0		
31	30	32	2.00%	2.1	9.0		
33	32	34	6.90%	10.2	54.0		
TOTAL					123.0	98.0	299.0

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	ALIGNMENT CHECKED	
	AS-BUILT CHECKED	
	FIELD FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756, Smt. Utility - Tags.dgn  
 FILE NAME: #80756.dwg  
 PEN TABLE: profile.tbl



DESIGNED - JJS	REVISED -
DRAWN - WJH	REVISED -
CHECKED - JJS	REVISED -
DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED DRAINAGE AND UTILITY TAGS**

SCALE: NTS      SHEET 1 OF 1 SHEETS      STA. TO STA.

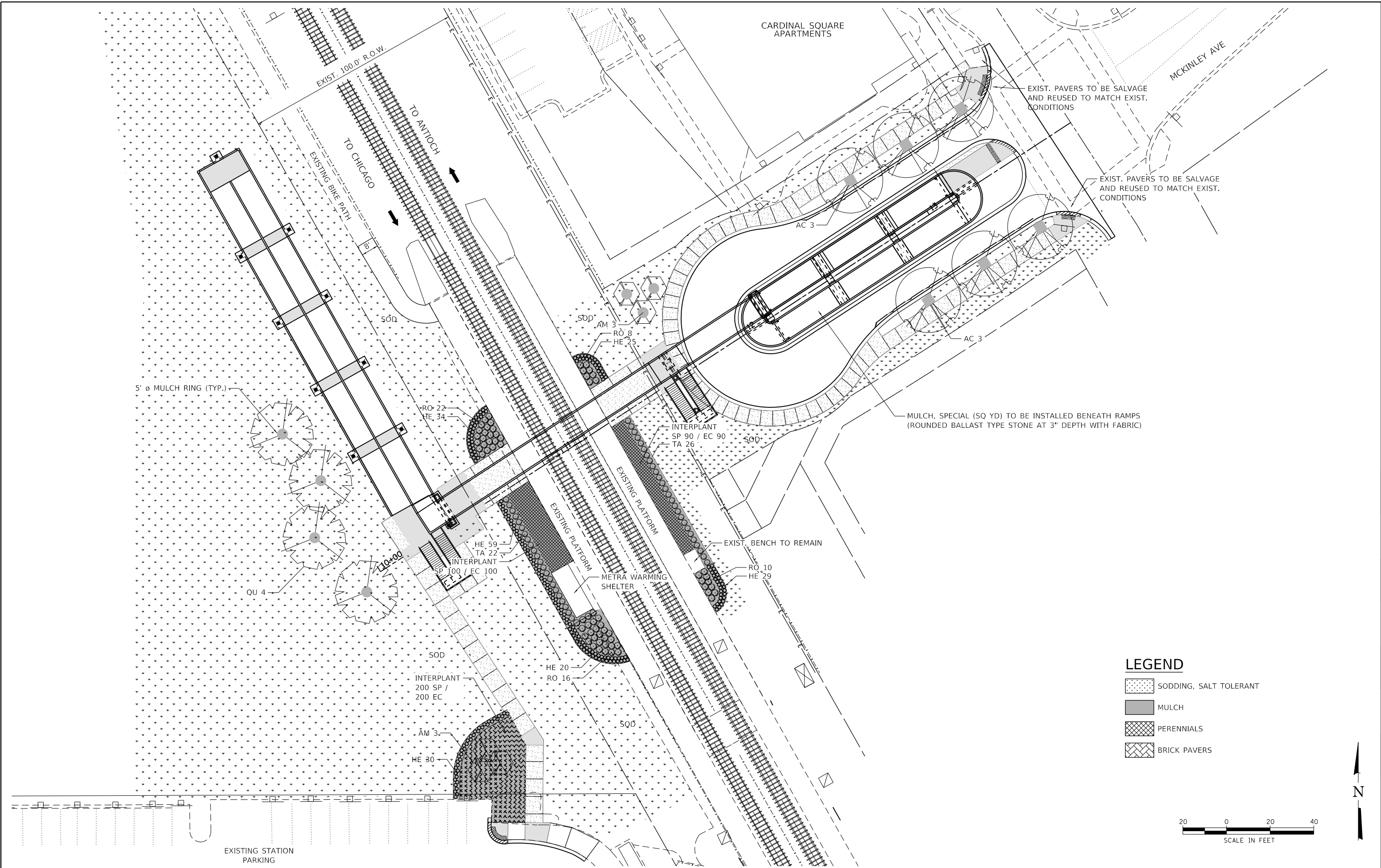
F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	18
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
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PLAN	SURVEYED	DATE
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	PROJECT NO.	
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	NOTE BOOK	
	NO.	
	FILE NAME	
	PROJECT NO.	
	DATE	

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756\_Sr.Landscape01.dgn  
 FILE NAME: #80756\_Sr.Landscape01.dgn  
 PEN TABLE: penfabtbl.tbl



**LEGEND**

	SODDING, SALT TOLERANT
	MULCH
	PERENNIALS
	BRICK PAVERS



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DATE -	10/5/2020	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>LANDSCAPE PLAN</b>			
SCALE: 1"=20'	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	19
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F89	

GENERAL NOTES

- CONSTRUCTION SPECIFICATIONS: ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION. SEE SPECIFICATIONS FOR STANDARD DETAILS AS REQUIRED FOR WORK.
- WHERE EXISTING UTILITY FIXTURES ARE SHOWN AS EXISTING ON PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE OF THOSE UTILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ALLOW ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES, UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT KNOWN OR SHOWN, IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE EXACT LOCATIONS OF THESE UTILITIES AND PREVENT DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION SHALL BE ALLOWED TO CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.
- FIELD LOCATE UNDERGROUND UTILITIES PRIOR TO EXCAVATION FOR INSTALLATION OF SITE IMPROVEMENTS. IF A CONFLICT EXISTS BETWEEN PROPOSED SITE IMPROVEMENTS AND EXISTING OR PROPOSED UTILITIES, IMMEDIATELY ADVISE THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL USE CAUTION WHEN DIGGING TREE PITS IN THE VICINITY OF UTILITY LINES AND MAY NEED TO HAND DIG THE PITS IN MANY OF THESE INSTANCES. HAND DIGGING TREE PITS SHALL BE INCIDENTAL TO THE PAY ITEM PER EACH TREE COMPLETE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE APPROVED WASTE AREAS OR DISPOSAL SITES FOR EXCESS MATERIAL (EXCAVATED MATERIAL, CLEARED MATERIAL, BROKEN ASPHALT/CONCRETE, ETC.) WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED WITH THIS PROJECT. WASTE MATERIAL MUST BE REMOVED FROM SITE PRIOR TO INITIAL INSPECTION AND ACCEPTANCE.
- DURING REMOVAL AND CONSTRUCTION, THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS. DUST CONTROL MEASURES SHALL BE IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- EXISTING UTILITIES, TREES, STRUCTURES, AND PAVEMENT LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS OF THESE OR ANY OTHER EXISTING FACILITIES AS REQUIRED FOR COMPLETION OF PROJECT.
- CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO ALLOW FOR COMPLETION OF THE WORK AS SPECIFIED AND WITHIN THE REQUIRED PLANTING WINDOWS PER IDOT STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING STRUCTURES, UTILITY POLES, FENCES, TREES AND SHRUBS TO REMAIN AND OTHER EXISTING FEATURES TO REMAIN DURING CONSTRUCTION. DAMAGE DUE TO CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.

LANDSCAPE IMPROVEMENTS NOTES

- MASTER PLANT SCHEDULE: ALL TREES, SHRUBS, PERENNIALS, ETC. ARE LISTED IN THE MATERIALS SCHEDULE. IF THERE IS A CONFLICT BETWEEN THE QUANTITIES SHOWN ON THE PLANTING PLAN DRAWINGS AND THE QUANTITIES SHOWN IN THE PLANT SCHEDULE, THE QUANTITIES SHOWN IN THE PLANTING PLAN DRAWINGS SHALL PREVAIL.
- PLANTING LAYOUT: CONTRACTOR TO STAKE ALL TREE PLANTING LOCATIONS AND MARK THE PERIMETER OF SHRUB/PERENNIAL BEDS AND OBTAIN REVIEW OF THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION OF PLANT PITS AND PLANT BEDS.
- CONTRACTOR IS TO PRESERVE AND PROTECT EXISTING PLANT MATERIAL TO REMAIN. TREE ROOT PRUNING SHALL BE PERFORMED ANYTIME EARTHWORK EXCAVATION OCCURS WITHIN THE CRITICAL ROOT ZONE. ROOT PRUNING SHALL BE CONSIDERED INCIDENTAL TO EARTHWORK. PLANT MATERIAL THAT IS DAMAGED SHALL BE REPLACED IN KIND AT CONTRACTOR'S EXPENSE.
- SHREDDED HARDWOOD MULCH, FERTILIZING, STAKING, WATERING, PRUNING, MAINTENANCE AND PERIOD OF ESTABLISHMENT FOR INSTALLED PLANT MATERIAL, SHALL BE INCIDENTAL TO THE PLANT PAY ITEMS.
- ANY PLANTS THAT ARE NOT IN A LIVE, HEALTHY, GROWING CONDITION AT THE END OF THE PERIOD OF ESTABLISHMENT SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND WATERING THE PLANT MATERIAL AS NECESSARY, TO ENSURE GROWTH AND ESTABLISHMENT DURING THE PERIOD OF ESTABLISHMENT PER IDOT STANDARD SPECIFICATIONS. SUPPLEMENTAL WATERING SHALL OCCUR AS DEEMED NECESSARY BY THE OWNER'S REPRESENTATIVE AND PAID FOR SEPARATELY.
- ALL PLANT MATERIALS DESIGNATED IN THE PLANTING SCHEDULE AS MATCHED SHALL BE OF UNIFORM SIZE, COLOR, BRANCHING HEIGHT, FORM, ETC. PLANTS WHICH DO NOT MATCH WILL BE REJECTED.

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	ALIGNED	
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	PAID FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	

LANDSCAPING MATERIALS SCHEDULE						
QTY	KEY	BOTANICAL NAME/ITEM	COMMON NAME	SIZE	COND	REMARKS
<b>DECIDUOUS TREES</b>						
6	AC	ACER X FREEMANII 'JEFFERSRED'	AUTUMN BLAZE MAPLE	2.5" CAL.	B&B	CENTRAL LEADER; MATCHED
6	AM	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	8" HT.	B&B	MULTI-STEM; MATCHED
4	QU	QUERCUS PALUSTRIS	PIN OAK	2" CAL.	B&B	CENTRAL LEADER; MATCHED
<b>DECIDUOUS SHRUBS</b>						
56	RO	ROSA MEIPOQUE	PINK MEIDLAND ROSE	24" HT.	CONT.	3' O.C.; MATCHED
<b>EVERGREEN SHRUBS</b>						
48	TA	TAXUS X MEDIA 'HICKSII'	HICKS YEW	3' WIDTH	B&B	3' O.C.; MATCHED
<b>PERENNIALS, GRASSES &amp; GROUND COVER</b>						
390	EC	ECHINACEA PALLIDA	PALE PURPLE CONEFLOWER	#1	CONT.	18" O.C.; MATCHED
197	HE	HEMEROCALLIS 'STELLA DE ORO'	DAYLILY	#1	CONT.	18" O.C.; MATCHED
390	SP	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	#1	CONT.	18" O.C.; MATCHED
<b>MISCELLANEOUS</b>						
39	MULCH	DOUBLE SHREDDED HARDWOOD MULCH		CY		SEE IDOT SPECS
480	MULCH	3" DEEP STONE MULCH		1"-3" DIA.	SY	ROUNDED. GRAY COLOR.
9890	SOD	SODDING, SALT TOLERANT		SY		
<b>GENERAL NOTES:</b>						
1. PLANT MATERIAL AND SEEDING TO BE INSTALLED PER SECTIONS 250, 251, 253, 254 & 280 OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MOST RECENT VERSION.						

HRG PROJECT NO.: #80756  
 HRG PROJ. CONTACT: #80756\_Sr-Landscape2.dgn  
 FILE NAME: 8/20/2020 10:19:19 AM  
 PEN TABLE: p01f06tbl.tbl



DESIGNED - JJS	REVISED -
DRAWN - WJH	REVISED -
CHECKED - JJS	REVISED -
DATE - 10/5/2020	REVISED -

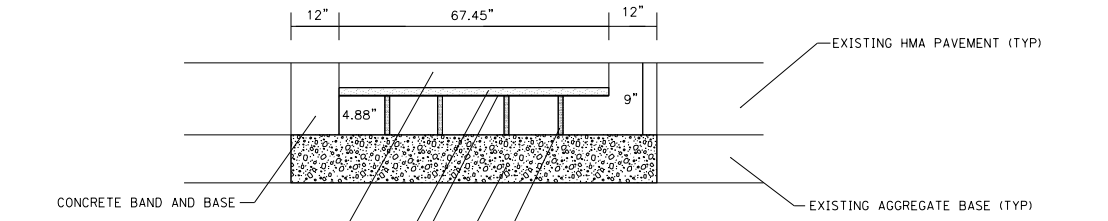
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LANDSCAPE NOTES

SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	20
CONTRACT NO.			61F89	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
NOTE BOOK	
NO.	
DATE	
BY	
FILE	
NO.	
DATE	
BY	
FILE	
NO.	



**INSTALLATION NOTES**

PAVERS SHALL BE INSTALLED ON TOP OF THE SAND LAYER, LAYING ALL FULL STONES POSSIBLE FIRST. SMALL CUT PLACES WILL THEN BE INSTALLED.

CONTRACTOR SHALL COMPACT PAVING STONES INTO THE SAND LAYER WITH A MECHANICAL PLATE COMPACTOR WITH A FORCE OF 2500-3500 LBS.

POLYMERIC SAND IS THEN SWEEPED INTO THE JOINTS AND VIBRATED UNTIL THE JOINT ARE FULL.

THE PAVERS SHALL BE PLACED ACCORDING TO CONCRETE PAVEMENT INSTITUTE SPECIFICATIONS.

THE PAVERS SHALL BE ARRANGED IN A PATTERN MATCHING THE EXISTING ADJACENT BRICK PAVER CROSSWALKS

**BRICK PAVER CROSSWALK**

DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
NOTE BOOK	
NO.	
DATE	
BY	
FILE	
NO.	

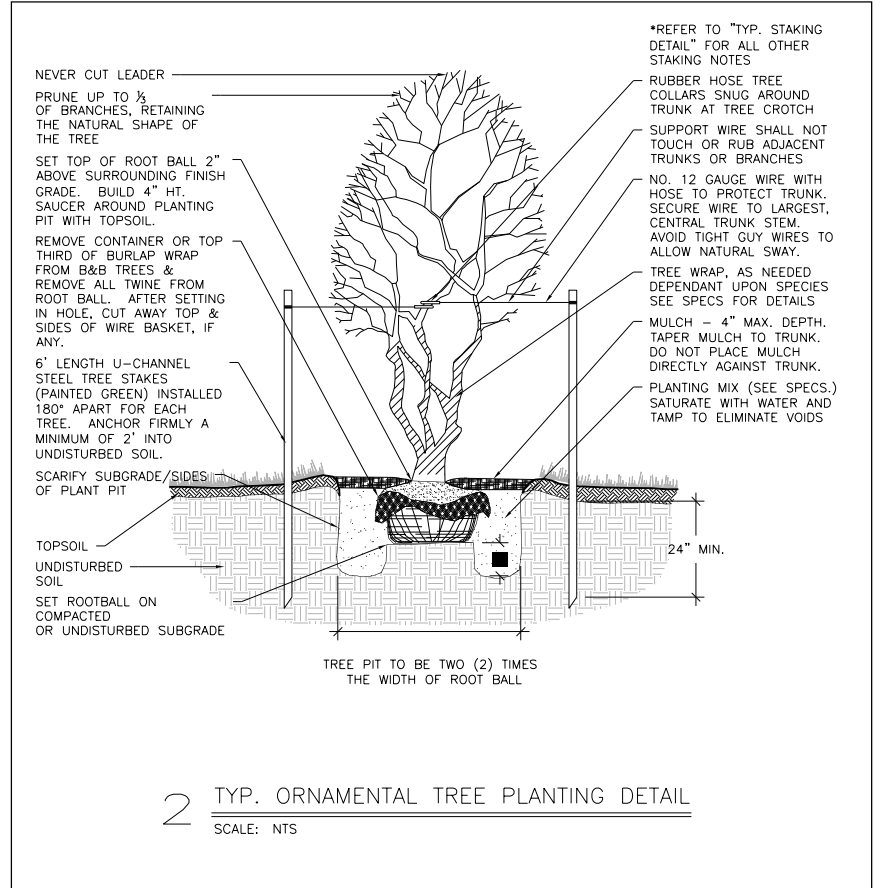
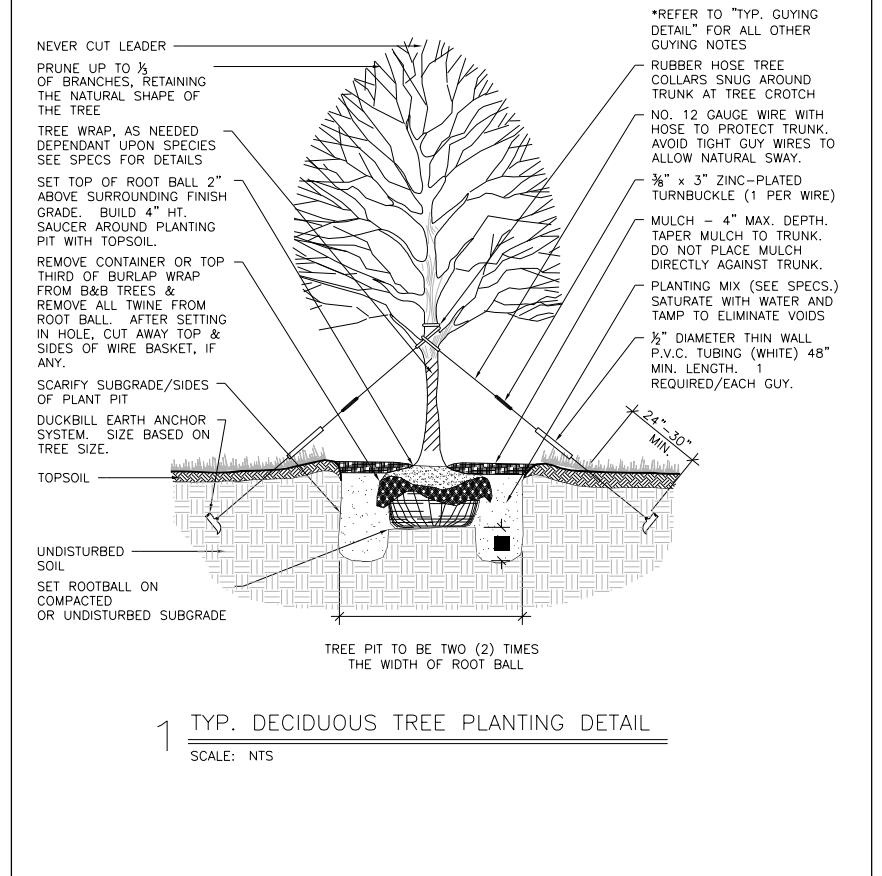
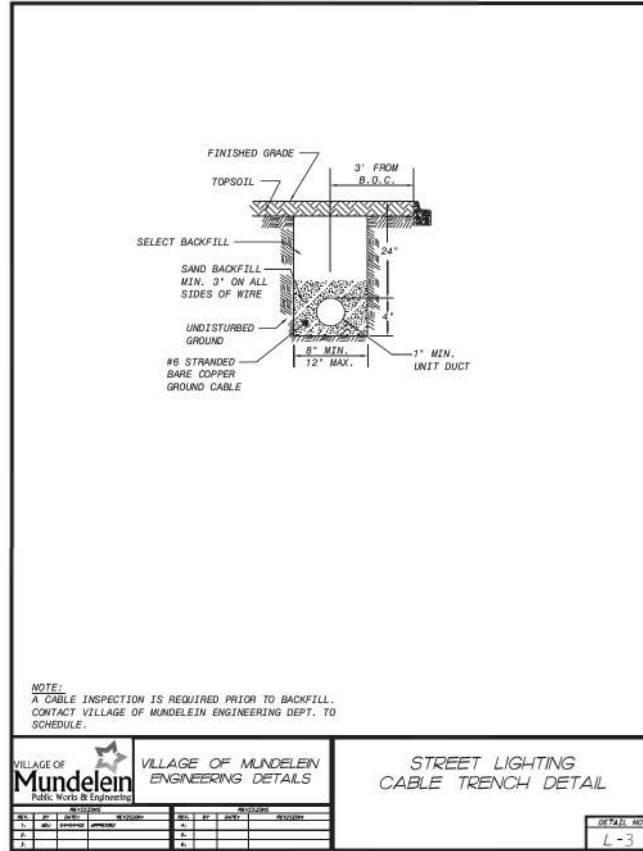
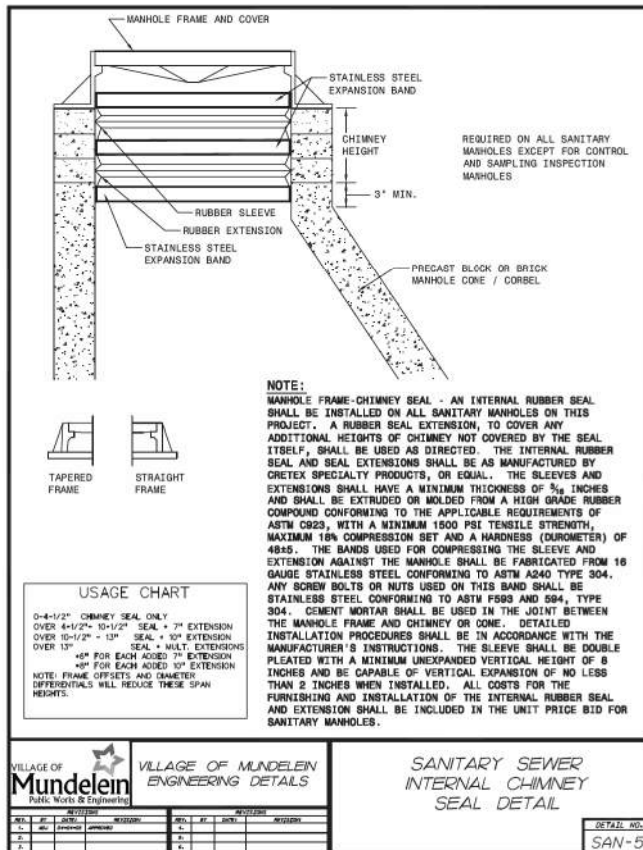
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 HRG PROJ CONTACT: #80756.Shr...D...@hr.com  
 FILE NUMBER: 180756.D...  
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**KMI**  
 Kaitoum Mehdi, Inc.  
 ARCHITECTS & ENGINEERS  
 223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
 Tel: (312)987-5900 Fax: (312)987-5892

DESIGNED -	JJS	REVISED -	
DRAWN -	WJH	REVISED -	
CHECKED -	JJS	REVISED -	
DATE -	10/5/2020	REVISED -	

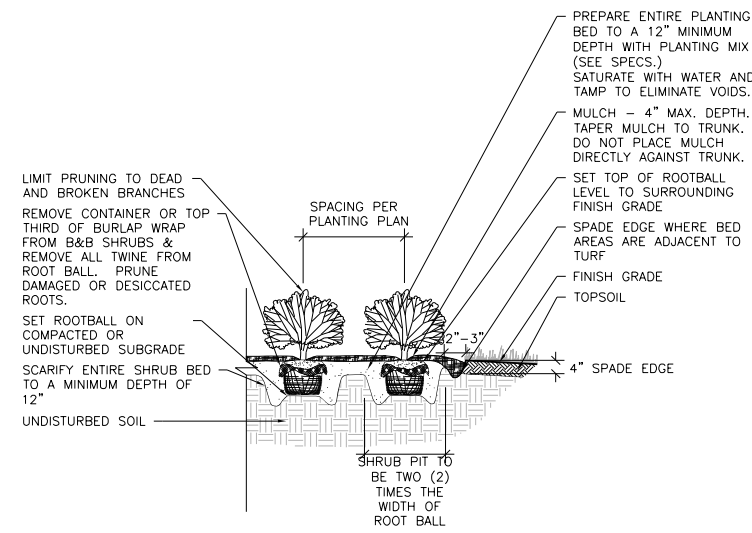
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



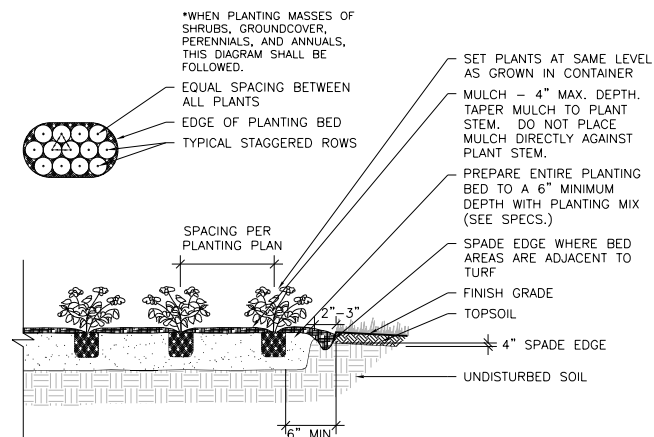
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N/A	12-00097-00-BR	LAKE	65	21
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 61F89	

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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	AS BUILT	
	FILE NAME	
	FILE NO.	
	BY	

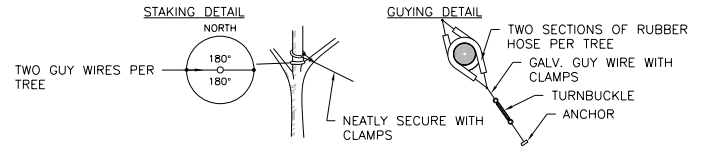


3 TYP. SHRUB PLANTING DETAIL  
SCALE: NTS



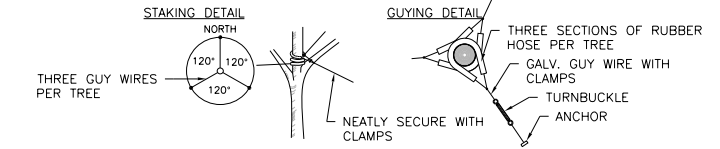
4 TYP. PERENNIAL PLANTING DETAIL  
SCALE: NTS

- GUYING STANDARDS**
- TWO (2) ANCHORS (HOLDING CAPACITY 1100# PER ANCHOR IN NORMAL SOIL.
  - 13' OF 1/8" 7x7 GALVANIZED STEEL CABLE WITH TURNBUCKLE ATTACHED MID-CABLE.
  - 1/2" DIAMETER THIN WALL P.V.C. TUBING (WHITE) 48" MINIMUM LENGTH. ONE (1) REQUIRED/EACH GUY.
  - TWO (2) TURNBUCKLES, EYE AND EYE TYPE, 3/8" THREAD DIAMETER WITH 3" TAKE-UP
  - FOUR (4) 1/8" CABLE CLAMPS, ZINC PLATED (DR-2 STEEL DRIVE ROD 2' LONG WITH 1/4" ROUND DRIVING TIP NEEDED TO INSTALL ANCHORS. ONE ROD, NOT INCLUDED IN KIT, DRIVES HUNDREDS OF ANCHORS)
  - TWO (2) RUBBER HOSE TREE COLLARS, 21" LONG, EA.



\*APPLIES TO SINGLE TRUNK DECIDUOUS TREES 3" CAL. AND LESS & EVERGREEN TREES 8' HT. AND LESS

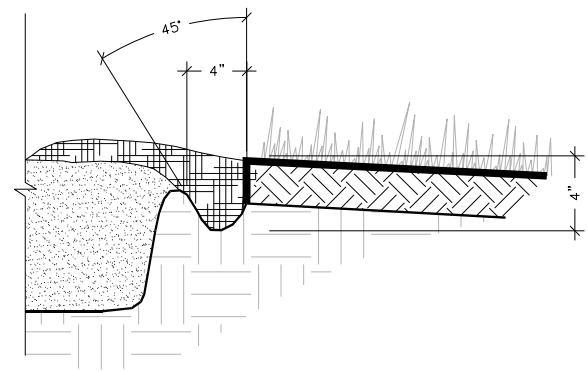
- GUYING STANDARDS**
- THREE (3) ANCHORS (HOLDING CAPACITY 1100# PER ANCHOR IN NORMAL SOIL.
  - 13' OF 1/8" 7x7 GALVANIZED STEEL CABLE WITH TURNBUCKLE ATTACHED MID-CABLE.
  - 1/2" DIAMETER THIN WALL P.V.C. TUBING (WHITE) 48" MINIMUM LENGTH. ONE (1) REQUIRED/EACH GUY.
  - THREE (3) TURNBUCKLES, EYE AND EYE TYPE, 3/8" THREAD DIAMETER WITH 3" TAKE-UP
  - SIX (6) 1/8" CABLE CLAMPS, ZINC PLATED (DR-2 STEEL DRIVE ROD 2' LONG WITH 1/4" ROUND DRIVING TIP NEEDED TO INSTALL ANCHORS. ONE ROD, NOT INCLUDED IN KIT, DRIVES HUNDREDS OF ANCHORS)
  - THREE (3) RUBBER HOSE TREE COLLARS, 21" LONG, EA.



\*APPLIES TO SINGLE TRUNK DECIDUOUS TREES GREATER THAN 3" CAL. & EVERGREEN TREES GREATER THAN 8' HT.

5 TYP. GUYING DETAIL  
SCALE: NTS

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	
NO.	STRUCTURE	
	NOT AT THIS CHKD	
	BY	



6 TYP. SPADED EDGE DETAIL  
SCALE: NTS

HRG PROJECT NO.: #80756  
HRG PROJ. CONTACT: #80756\_Sm...D...02.dgn  
FILE NUMBER: #80756\_Sm...D...02.dgn  
PEN TABLE: #80756\_Sm...D...02.dgn



HRGreen.com  
Micro Professional Design Firm  
#184-001322

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DESIGNED - JJS	REVISED -
DRAWN - WJH	REVISED -
CHECKED - JJS	REVISED -
DATE - 10/5/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

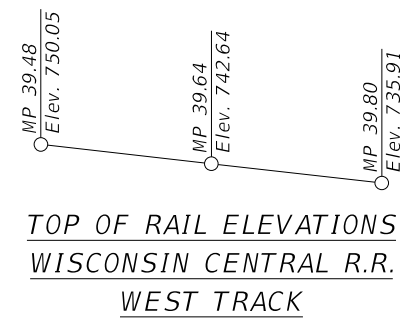
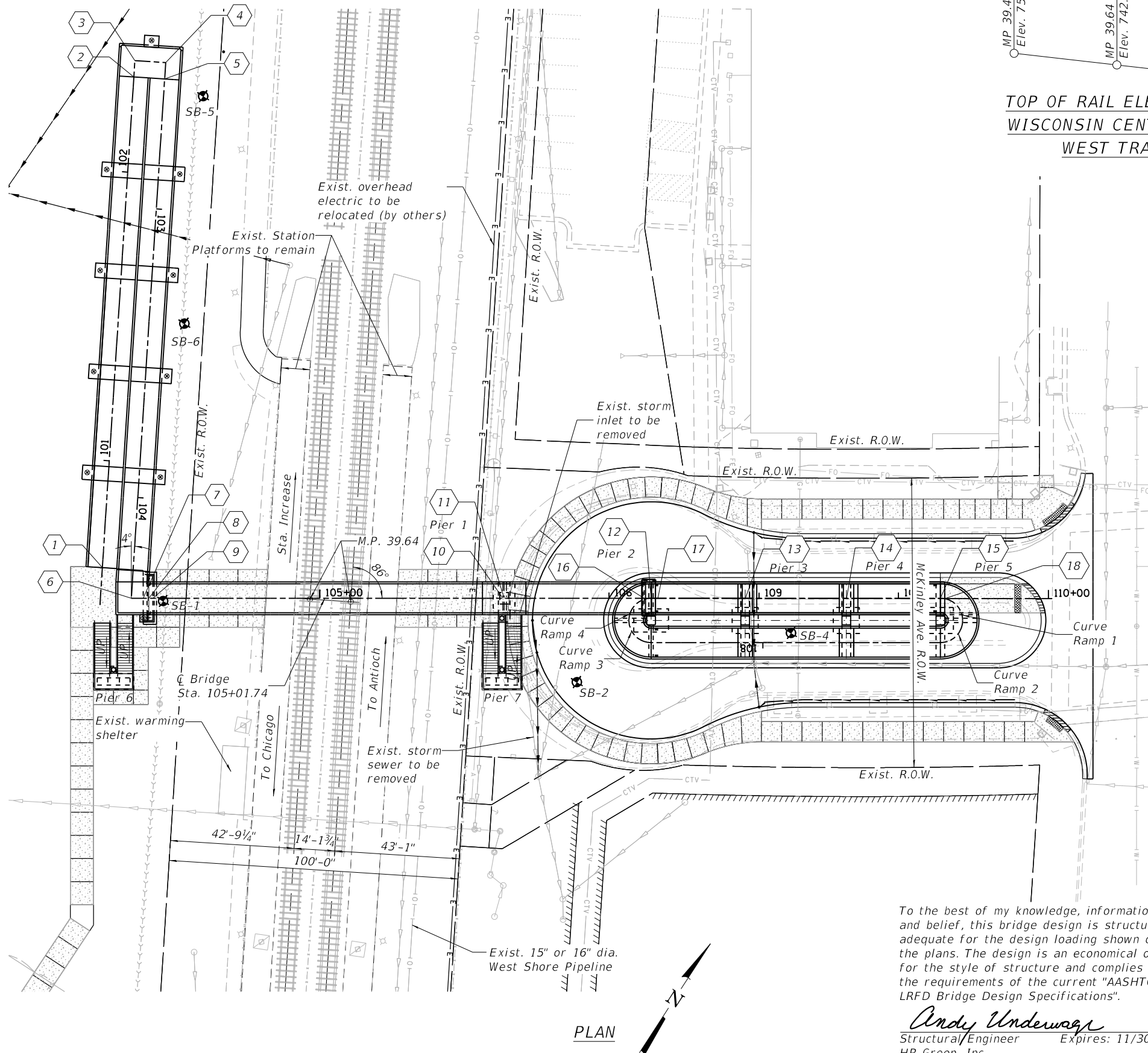
CONSTRUCTION DETAILS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	22
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F89	

Benchmark:  
Arrow bolt on fire hydrant located at the north corner of the Intersection of McKinley Avenue and Anthony Avenue/  
Elev. 751.06 (NAVD88)

Existing Structure:  
No existing structure



**DESIGN SPECIFICATIONS**

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition.  
2009 LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Edition.

**DESIGN STRESSES**

**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f'_c = 4,000$  psi (Superstructure)  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (M270 Grade 50W)  
**PRECAST UNITS**  
 $f'_c = 4,500$  psi (Precast Panels)

**LOADING**

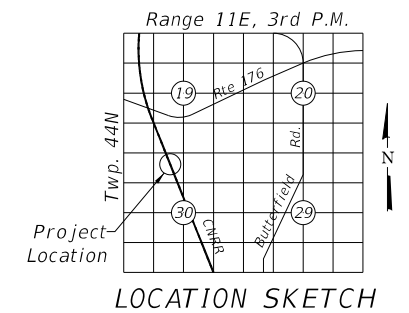
H5 = (Maintenance Vehicle)  
Pedestrian Live Load = 90 psf

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.078g  
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.132g  
 Soil Site Class = D

**UTILITY LEGEND**

- >->->-> Exist. Sanitary Sewer
- - - - - Exist. Fence
- >->->-> Exist. Storm Sewer
- >->->-> Exist. Gas
- CTV- Exist. Cable Television
- O-O-O- Exist. Underground Oil
- >->->-> Exist. Aerial Utility
- >->->-> Exist. Underground Water
- >->->-> Prop. Storm Sewer
- >->->-> Prop. Sanitary Sewer
- E- Prop. Electrical
- Exist. Powerpole
- ⊠ Exist. Handhole
- ⊞ Exist. Controller
- ⊞ Exist. Telephone Splice Box
- ⊞ Exist. Light Pole
- ⊞ Exist. Flared End Section
- ⊞ Exist. Manhole
- ⊞ Exist. Catch Basin
- # Indicates Work Point (See Table on Sheet S-4)



**LOCATION SKETCH**

**GENERAL PLAN**  
**MUNDELEIN METRA STATION**  
**OVER CN RAILROAD BRIDGE**  
**LAKE COUNTY**  
**M.P. 39.64**  
**STATION 105+01.74**  
**STRUCTURE NO. 049-P004**

To the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO LRFD Bridge Design Specifications".

*Andy Underwager*  
 Structural Engineer Expires: 11/30/2022  
 HR Green, Inc.



**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SHEET NO. S-1 OF S-35 SHEETS

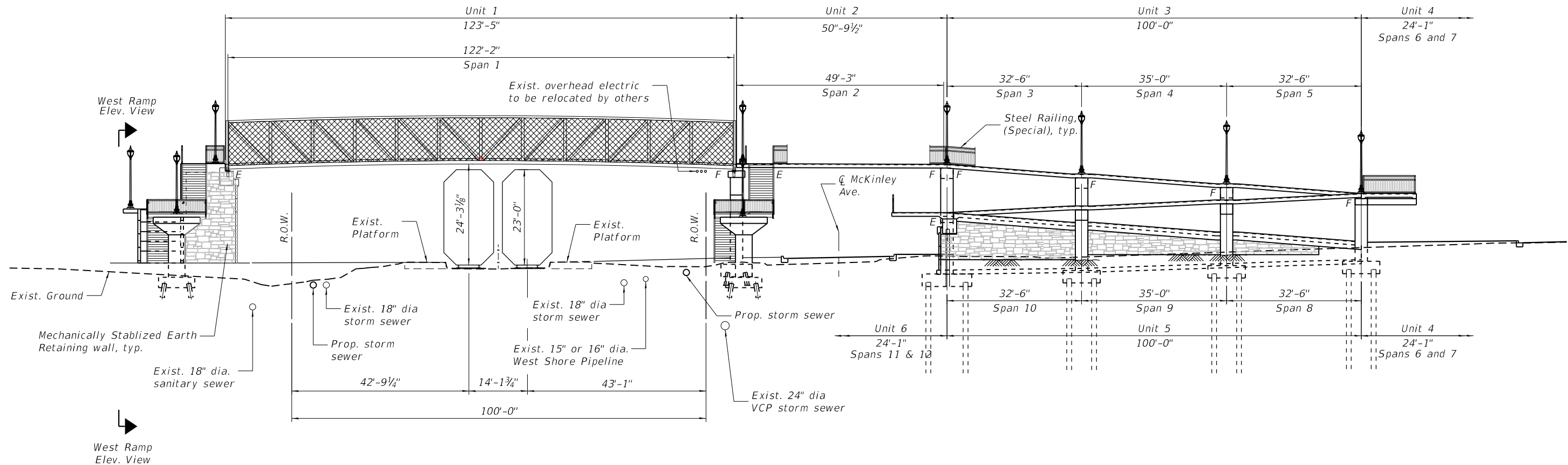
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CHECKED - AEU	REVISED -
DRAWN - WJH	REVISED -
DATE - 10/5/2020	REVISED -

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	23
CONTRACT NO. 61F89			ILLINOIS FED. AID PROJECT	

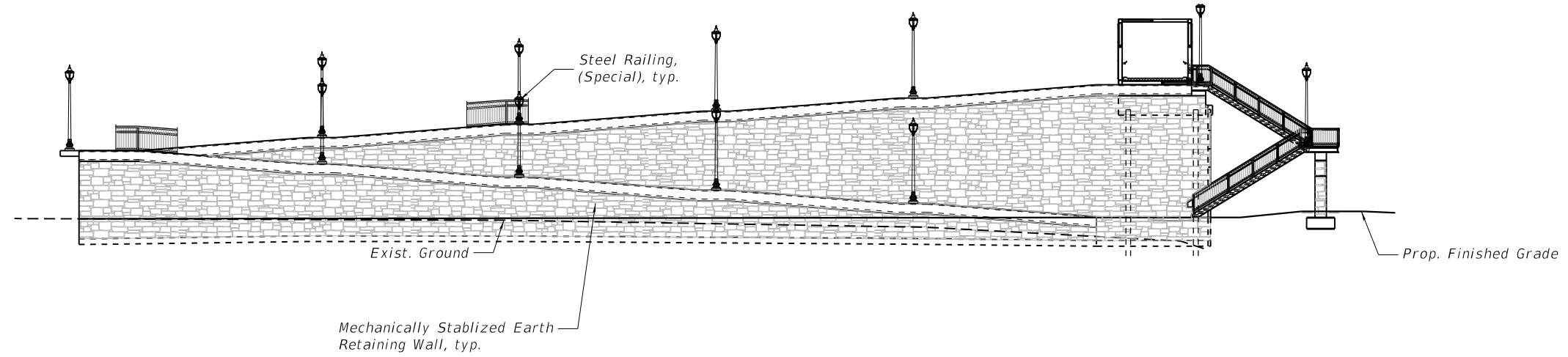
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 PEN TABLE:



**KMI**  
 Katsoumi Mehdi, Inc.  
 ARCHITECTS & ENGINEERS  
 223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
 Tel.: (312) 987-5900 Fax: (312) 987-8892



**ELEVATION**  
(Looking North)



**WEST RAMP ELEVATION**  
(Looking East)

**GENERAL ELEVATION**  
**MUNDELEIN METRA STATION**  
**OVER CN RAILROAD BRIDGE**  
**LAKE COUNTY**  
**M.P. 39.64**  
**STATION 105+01.74**  
**STRUCTURE NO. 049-P004**

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 PEN TABLE:

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 223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
 Tel.: (312)987-5900 Fax: (312)987-5892

DESIGNED - JMW/OS	REVISED -
CHECKED - AEU	REVISED -
DRAWN - WJH	REVISED -
DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SHEET NO. S-2 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	24
CONTRACT NO. 61F89				

ILLINOIS FED. AID PROJECT

**GENERAL NOTES**

- Reinforcement bars designated (E) shall be epoxy coated.
- The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
- Concrete Sealer shall be applied to the designated areas of the abutments, piers and MSE walls.
- Protective coat shall be applied to the top surface of the concrete slab and inside and top surfaces of curb.

**TOTAL BILL OF MATERIAL**

ITEM NO.	ITEM	UNIT	SUPER	SUB	TOTAL QUANTITY
20700220	Porous Granular Embankment	Cu Yd		350	350
50200100	Structure Excavation	Cu Yd		1,096	1,096
50200450	Removal amd Disposal of Unsuitable Material for Structures	Cu Yd		350	350
50300225	Concrete Structures	Cu Yd		147.0	147.0
50300255	Concrete Superstructure	Cu Yd	139.0		139.0
50300285	Form Liner Textured Surface	Sq Ft	6,077	1,515	7,592
50300300	Protective Coat	Sq Yd	1,236		1,236
50800205	Reinforcement Bars, Epoxy Coated	Pound	49,220	43,231	92,451
51200957	Furnishing Metal Shell Piles 12" x 0.250"	Foot		40	40
51200958	Furnishing Metal Shell Piles 14" x 0.250"	Foot		936	936
51202305	Driving Piles	Foot		976	976
51203200	Test Pile Metal Shells	Each		2	2
52200500	Mechanically Stabilized Earth Retainng Wall	Sq Ft		12,541	12,541
58700300	Concrete Sealer	Sq Ft		99	99.00
X0322508	Pedestrian Truss Superstructure	Sq Ft	1,234		1,234
X4240440	Portland Cement Concrete Sidewalk 6 Inch, Special	Sq Ft		5,461	5,461
X5030290	Staining Concrete Structures	Sq Ft	2,472	1388	3,859
Z0007124	Steel Railing (Special)	Foot	1,372		1,372
Z0018800	Drainage System	L Sum	1		1
Z0046304	Pipe Underdrains For Structures 4"	Foot		940	940
XX004951	Concrete Stairs	L Sum	1		1
XX006751	Stair Railing	Foot	240		240

**INDEX OF SHEETS**

S-1	General Plan
S-2	General Elevation
S-3, S-4	General Data
S-5	Substructure Layout 1
S-6	Substructure Layout 2
S-7	Deck Plan and Details - Unit 2
S-8	Deck Plan and Details - Unit 3 & Unit 5
S-9	Deck Plan and Details - Unit 4 & Unit 6
S-10	Deck Details
S-11	West Ramp Railing Layout
S-12	East Ramp Railing Layout
S-13	Bridge Railing Details
S-14	Pedestrian Truss Superstructure - Unit 1
S-15	Stair Details I
S-16	Stair Details II
S-17	West Abutment
S-18	Pier 1
S-19	Pier 2
S-20	Piers 3 & 4
S-21	Pier 5
S-22	Piers 6 & 7
S-23	East Abutment
S-24	West MSE Wall Plan and Details
S-25	West MSE Wall Details
S-26	East MSE Wall Plan and Details
S-27	East MSE Wall Details
S-28	Architectural Details
S-29	Metal Shell Pile Details
S-30	Deck Drainage Plan
S-31, S-32	Deck Drainage Details
S-33 - S-35	Soil Boring Logs

STATION 105+01.74  
 BUILT BY  
 VILLAGE OF MUNDELEIN  
 Sec. 12-00097-00-BR  
 LOADING Ped. & H5  
 STRUCTURE NO.  
 049-P004

**NAME PLATE**  
 See Std. 515001

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 PEN TABLE:



HRGreen.com  
 ■ In-House Professional Design Firm  
 #184-001322

**KMI**  
 Katsouni Mehd, Inc.  
 ARCHITECTS • ENGINEERS  
 223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
 Tel.: (312)987-5900 Fax.: (312)987-5892

DESIGNED - JMW/OS	REVISED -
CHECKED - AEU	REVISED -
DRAWN - WJH	REVISED -
DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA**

SHEET NO. S-3 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	25
CONTRACT NO.			61F89	
ILLINOIS FED. AID PROJECT				



**WORK POINTS**

1	Begin W. MSE Wall Sta. 100+62.97 Elev. 744.01	10	☉ W. Brg Pier 1 Sta. 105+63.29 Elev. 766.91
2	West Ramp Platform Sta. 102+32.97 Elev. 755.46	11	☉ of Pier 1 Sta. 105+63.74 Elev. 766.91
3	West Ramp Platform Sta. 102+38.64 Elev. 755.46	12	☉ of Pier 2 Sta. 106+14.53 Elev. 766.75
4	West Ramp Platform Sta. 102+49.31 Elev. 755.46	13	☉ of Pier 3 Sta. 106+47.04 Elev. 764.41
5	West Ramp Platform Sta. 102+54.97 Elev. 755.46	14	☉ of Pier 4 Sta. 106+82.04 Elev. 762.07
6	☉ of Railroad overpass at ☉ of West Ramp Sta. 104+34.88 Elev. 766.91	15	☉ of Pier 5 Sta. 107+14.53 Elev. 759.73
7	Bk. West Abut. Sta. 104+38.99 Elev. 766.91	16	Begin E. MSE Wall Sta. 108+59.52 Elev. N/A
8	☉ Brg. W. Abut. Sta. 104+40.95 Elev. 766.91	17	Bk. E. Abut. Sta. 108+64.19 Elev. 754.43
9	End W. MSE Wall Sta. 104+43.57 Elev. 748.11	18	End E. MSE Wall Sta. 109+64.19 Elev. 748.11

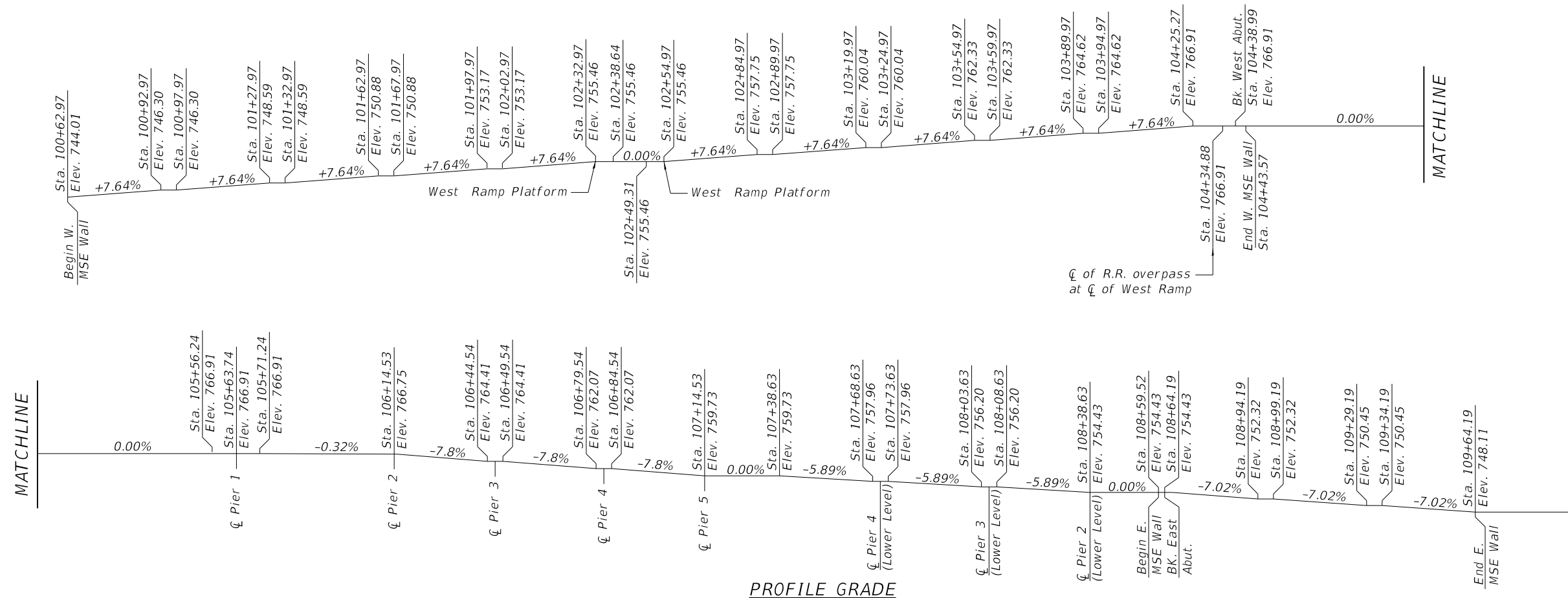
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D = 747° 19' 59"  
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T = 7.67'  
L = 12.04'  
E = 3.18'  
e = -----  
T.R. = -----  
S.E. RUN = -----  
P.C. STA = 107+14.54  
P.T. STA = 107+26.58

PROP. CURVE RAMP 2  
PI STA. = 107+34.25  
Δ = 90° 00' 00" (RT)  
D = 747° 19' 59"  
R = 7.67'  
T = 7.67'  
L = 12.04'  
E = 3.18'  
e = -----  
T.R. = -----  
S.E. RUN = -----  
P.C. STA = 107+26.58  
P.T. STA = 107+38.63

PROP. CURVE RAMP 3  
PI STA. = 108+58.33  
Δ = 90° 04' 39" (RT)  
D = 748° 20' 53"  
R = 7.66'  
T = 7.67'  
L = 12.04'  
E = 3.18'  
e = -----  
T.R. = -----  
S.E. RUN = -----  
P.C. STA = 108+50.67  
P.T. STA = 108+62.70

PROP. CURVE RAMP 4  
PI STA. = 108+46.29  
Δ = 90° 00' 00" (RT)  
D = 747° 20' 11"  
R = 7.67'  
T = 7.67'  
L = 12.04'  
E = 3.18'  
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T.R. = -----  
S.E. RUN = -----  
P.C. STA = 108+38.63  
P.T. STA = 108+50.67



HRG PROJECT NO.: 80756  
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PLOT DRIVER: plc-habeb.tbl  
PEN TABLE:

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223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
Tel.: (312)987-5900 Fax.: (312)987-5892

DESIGNED	- JMW/OS	REVISED	-
CHECKED	- AEU	REVISED	-
DRAWN	- WJH	REVISED	-
DATE	- 10/5/2020	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA**  
SHEET NO. S-4 OF S-35 SHEETS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	26
CONTRACT NO.			61F89	
ILLINOIS FED. AID PROJECT				

Point on Alignment  
Sta. 102+38.64  
N: 2040362.4954  
E: 1074774.7347

Point on Alignment  
Sta. 102+49.31  
N: 2040367.7293  
E: 1074784.0290

L102

L103

L101

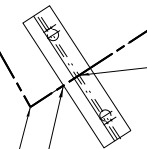
L104

L105+00

MATCH LINE STA. 105+25.00  
Sheet S-6

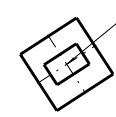
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Sta. 100+62.97  
N: 2040209.4295  
E: 1074860.9299

Point on Alignment  
Sta. 104+34.88  
N: 2040206.0304  
E: 1074875.0857



☐ Brg. West Abutment  
Sta. 104+40.95  
N: 2040209.3422  
E: 1074880.1753

Bk. W. Abut.  
Sta. 104+38.99  
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E: 1074878.5304



Pier 6  
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 Katsouni Mehdi, Inc.  
 ARCHITECTS • ENGINEERS  
223 W. Jackson Blvd., Suite 1101 Chicago, IL 60606  
 Tel.: (312)987-5900 Fax: (312)987-5892

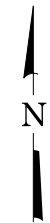
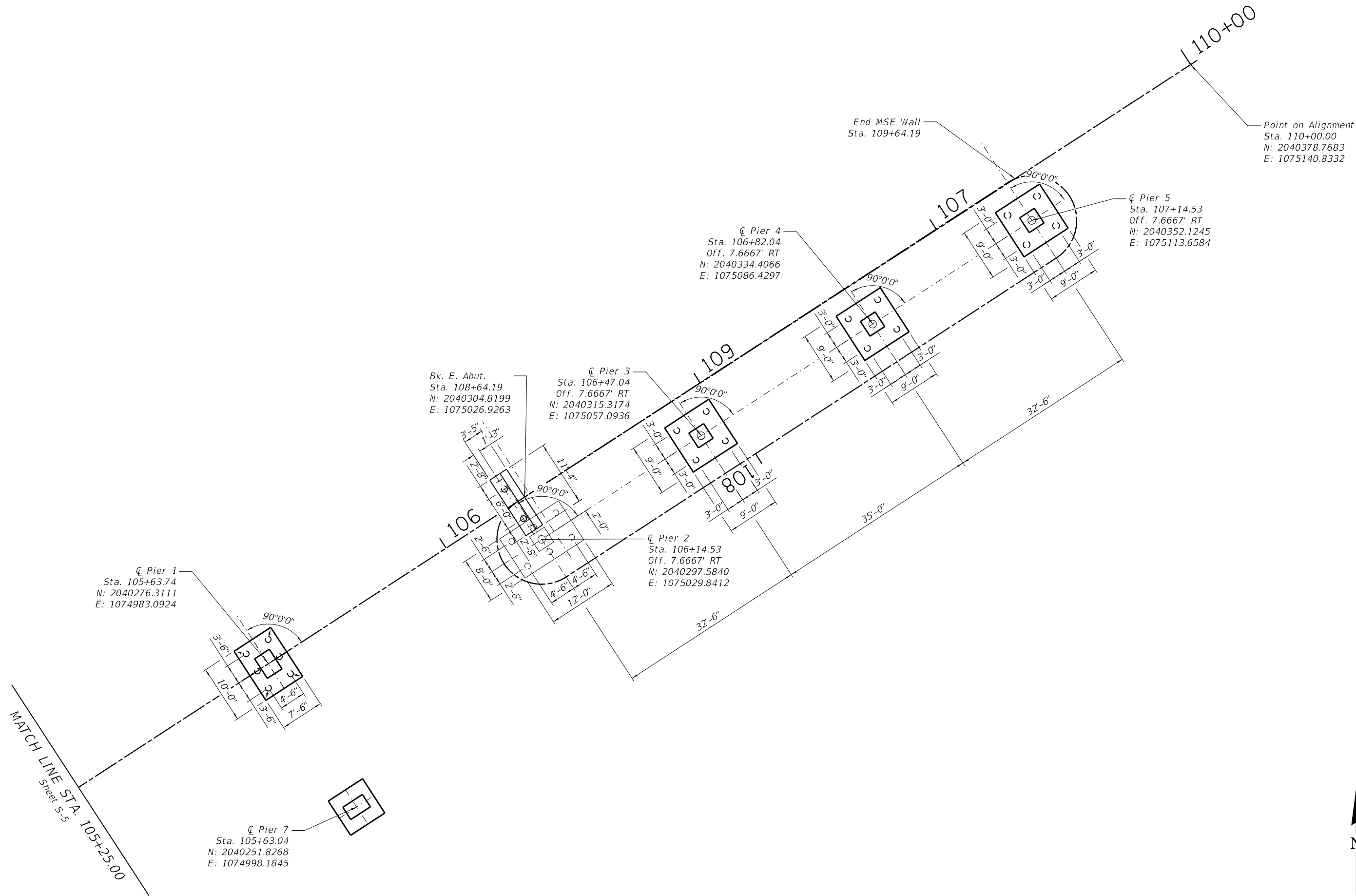
DESIGNED -	JMW/OS	REVISED -	
CHECKED -	AEU	REVISED -	
DRAWN -	WJH	REVISED -	
DATE -	10/5/2020	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE LAYOUT 1**

SHEET NO. S-5 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	27
CONTRACT NO.			61F89	
ILLINOIS FED. AID PROJECT				



HRG PROJECT NO.: 80756  
 HRG PROJ. CONTACT: 80756.Str.Substructure Layout02.dgn  
 FILE NAME: IL.pdf.bw.pdf.ctb  
 PLOT DRIVER: plc-habel.tbl  
 PEN TABLE:



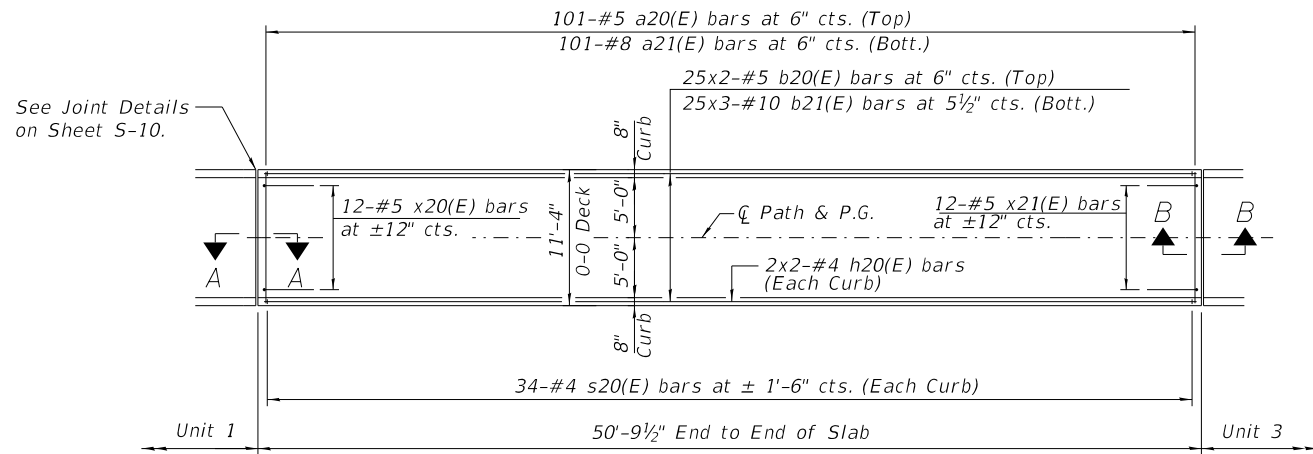
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CHECKED -	AEU	REVISED -	
DRAWN -	WJH	REVISED -	
DATE -	10/5/2020	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

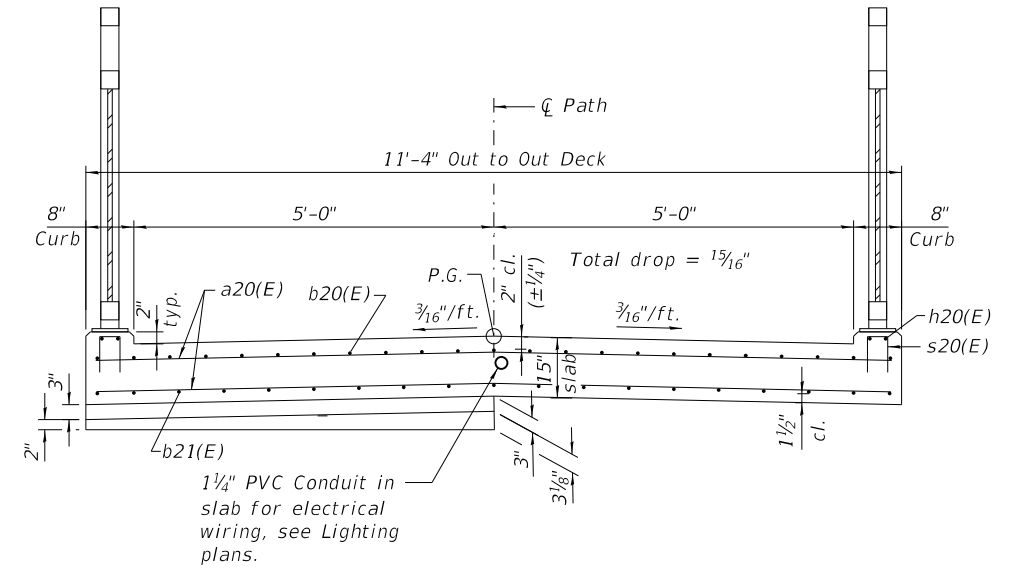
**SUBSTRUCTURE LAYOUT 2**

SHEET NO. S-6 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	28
CONTRACT NO.			61F89	
ILLINOIS FED. AID PROJECT				



PLAN  
(Unit 2)



CROSS SECTION  
(Unit 2 - Looking East)

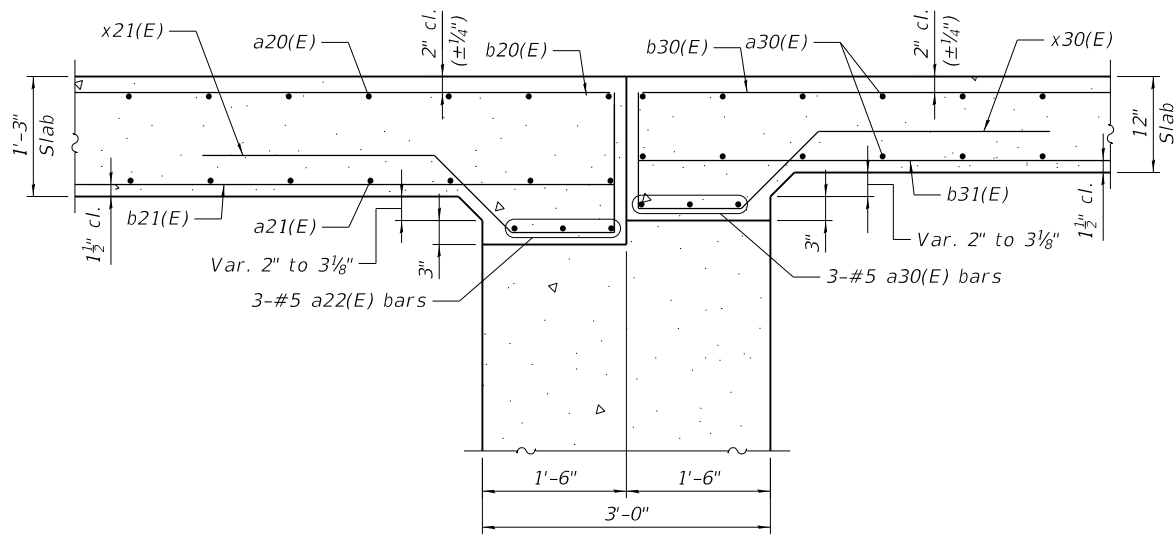
MINIMUM BAR LAP

- #4 bar = 1'-10"
- #5 bar = 2'-7"
- #10 bar = 9'-6"

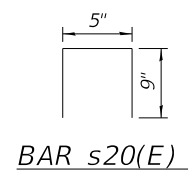
UNIT 2  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	101	#5	11'- 0"	—
a21(E)	101	#8	11'- 0"	—
a22(E)	6	#5	11'- 0"	—
b20(E)	50	#5	26'- 7"	—
b21(E)	75	#10	23'- 3"	—
h20(E)	8	#4	26'- 3"	—
s20(E)	68	#4	1'- 11"	□
x20(E)	12	#5	6'- 6"	~
x21(E)	12	#5	6'- 0"	~
Concrete Superstructure			Cu. Yd.	27.8
Reinforcement Bars, Epoxy Coated			Pound	13,470

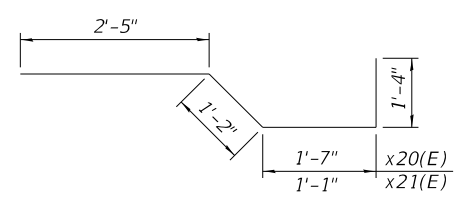
Bars indicated thus 25x3-#10 etc. indicates 25 lines of bars with 3 lengths per line.



SECTION B-B



BAR s20(E)



BARS x20(E) & x21(E)

NOTES:

For Section A-A, see Sheet S-10.

HRC PROJECT NO.: 80756  
 HRC PROJ. CONTACT: 80756 Str. Deck Unit 2.dgn  
 FILE NAME: IL\_paf.bwafcfq  
 PLOT DRIVER: pldtbltbl.tbl  
 PEN TABLE:

HRGreen.com  
 ■ Multi Professional Design Firm  
 #184-001322

**KMI**  
 Kallsoum Mehdi, Inc.  
 ARCHITECTS • ENGINEERS  
 223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
 Tel.: (312)987-5900 Fax.: (312)987-5892

DESIGNED -	JMW/OS	REVISED -	
CHECKED -	AEU	REVISED -	
DRAWN -	WJH	REVISED -	
DATE -	10/5/2020	REVISED -	

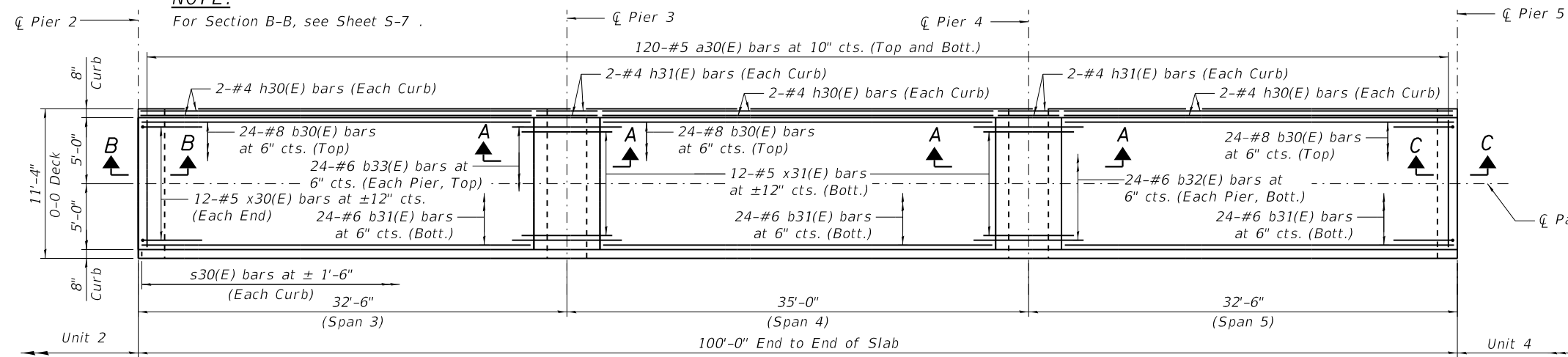
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DECK PLAN AND DETAILS - UNIT 2

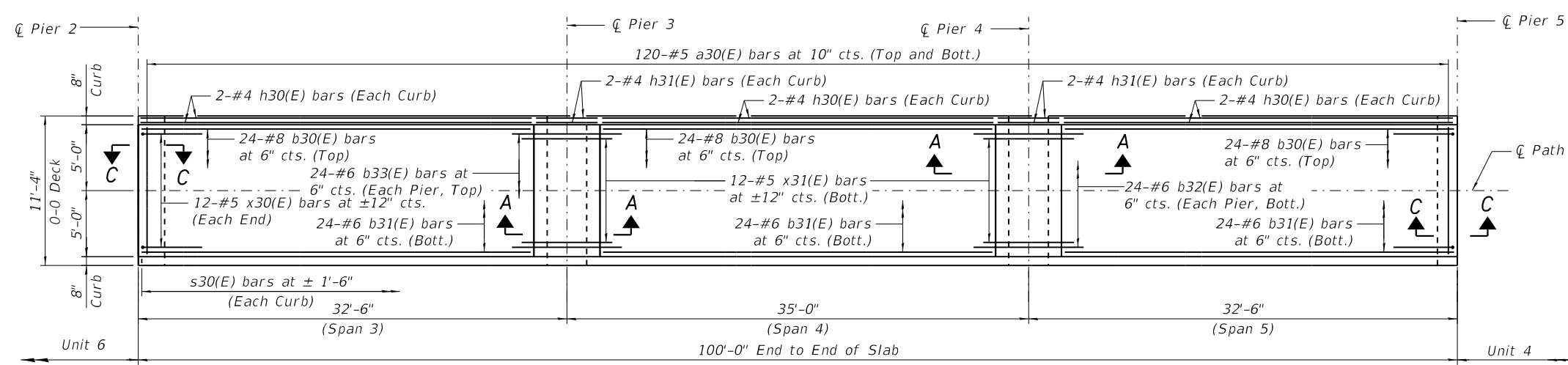
SHEET NO. S-7 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	29
CONTRACT NO.			61F89	
ILLINOIS FED. AID PROJECT				

**NOTE:**  
For Section B-B, see Sheet S-7.



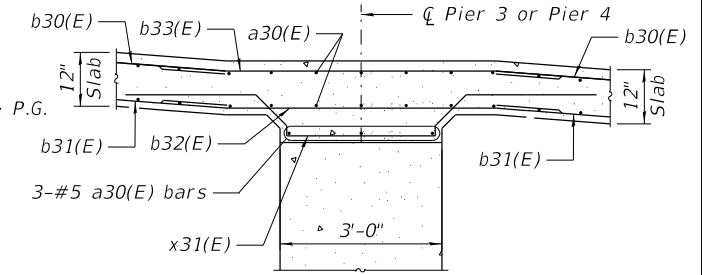
**PLAN**  
(Unit 3)



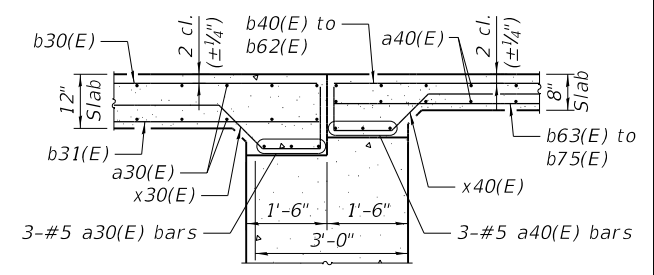
**PLAN**  
(Unit 5)

**MINIMUM BAR LAP**

#6 bar = 2'-9"  
#8 bar = 3'-8"



**SECTION A-A**

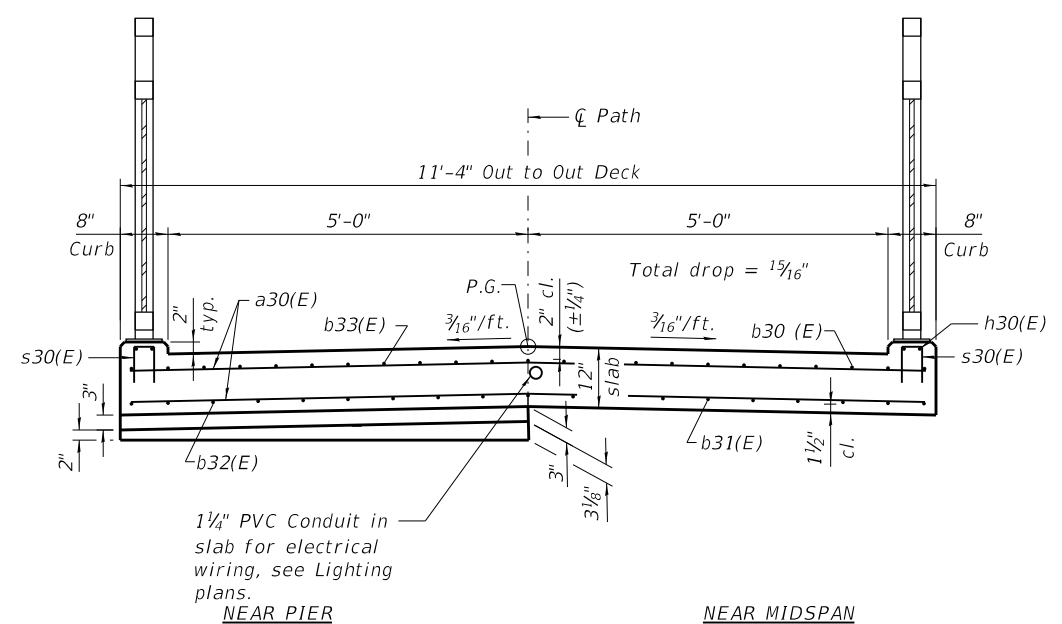
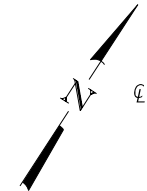


**SECTION C-C**

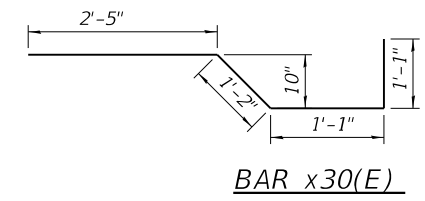
**BILL OF MATERIAL**

(Unit 3 & Unit 5)

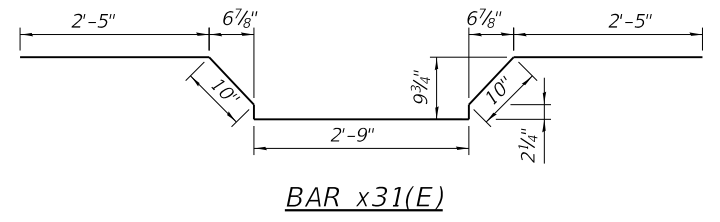
Bar	No.	Size	Length	Shape
a30(E)	504	#5	11'- 0"	—
a31(E)	12	#5	11'- 0"	—
b30(E)	144	#8	30'- 1"	—
b31(E)	144	#6	30'- 1"	—
b32(E)	96	#6	12'- 4"	—
b33(E)	96	#8	12'- 4"	—
h30(E)	24	#4	30'- 1"	—
h31(E)	16	#4	12'- 4"	—
s30(E)	272	#4	1'- 11"	┌
x30(E)	48	#5	5'- 9"	┌
x31(E)	48	#5	9'- 7"	┌
Concrete Superstructure		Cu Yd	90.0	
Reinforcement Bars, Epoxy Coated		Pound	30,660	



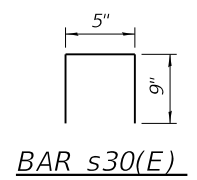
**CROSS SECTION**  
(Unit 3 & Unit 5)



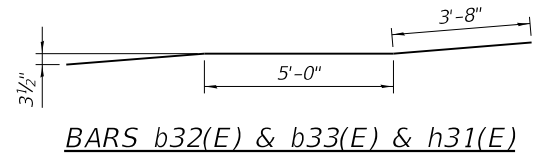
**BAR x30(E)**



**BAR x31(E)**



**BAR s30(E)**



**BARS b32(E) & b33(E) & h31(E)**

HRG PROJECT NO.: 80756  
HRG PROJ. CONTACT: 80756 Str. Deck Unit 3.dgn  
FILE NAME: IL\_paf.bwafcfq  
PLOT DRIVER: plc-fabell.tbl  
PEN TABLE:



DESIGNED - JMW/OS	REVISED -
CHECKED - AEU	REVISED -
DRAWN - WJH	REVISED -
DATE - 10/5/2020	REVISED -

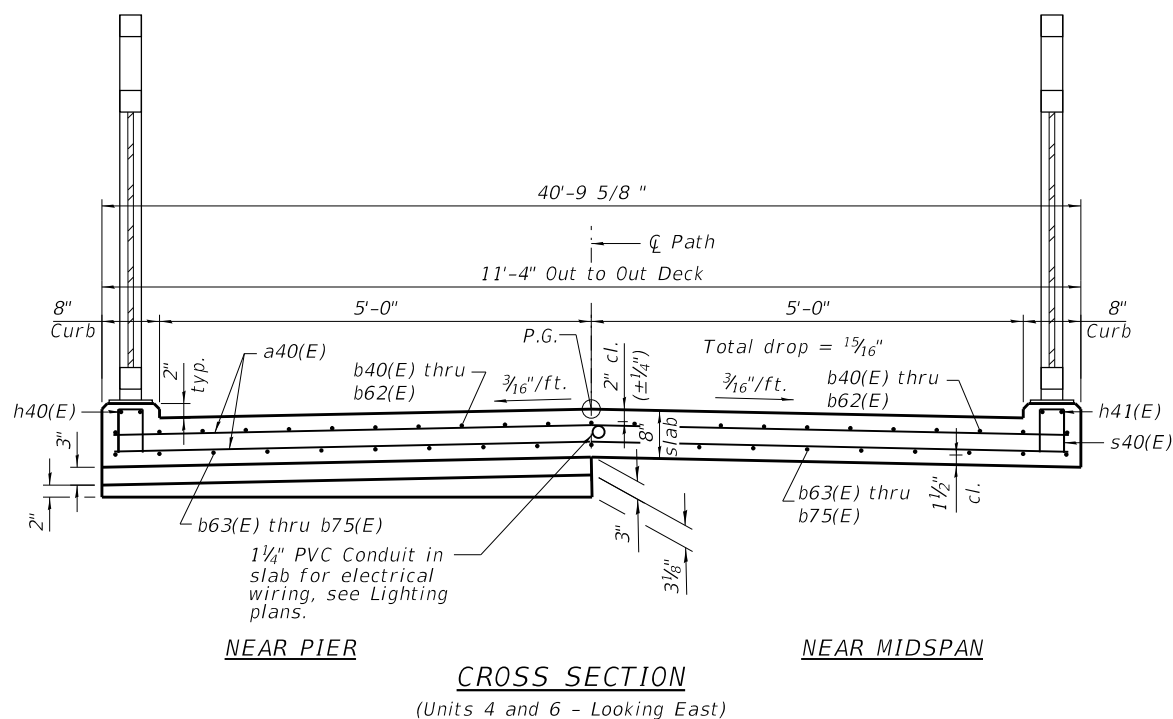
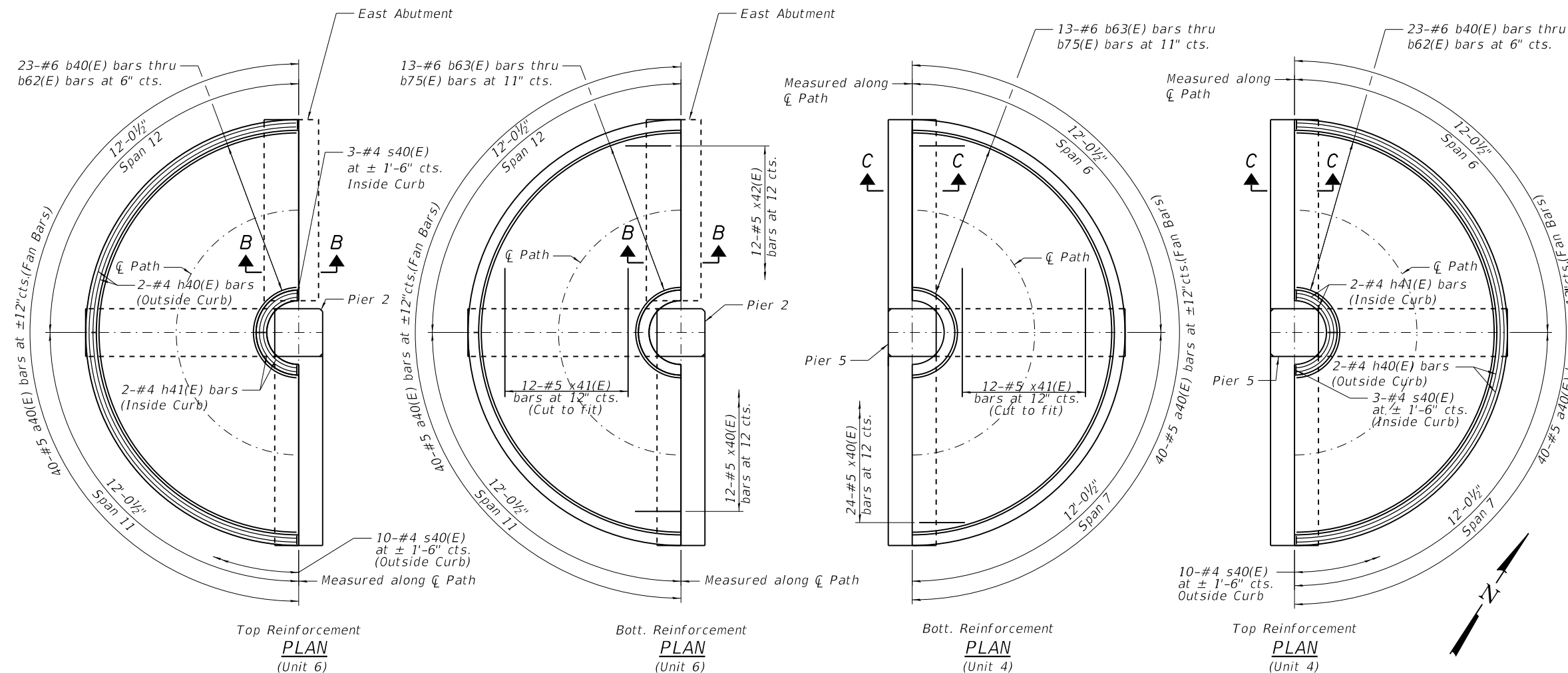
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DECK PLAN AND DETAILS - UNIT 3 & UNIT 5**

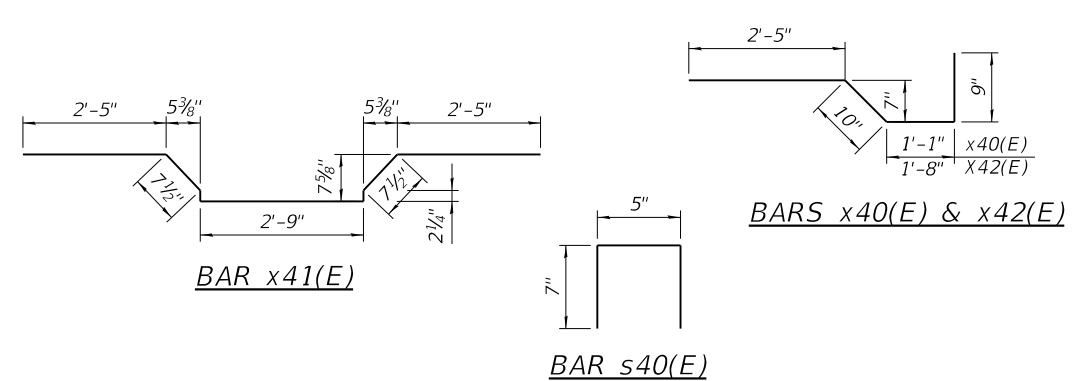
SHEET NO. S-8 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	30
CONTRACT NO. 61F89			ILLINOIS FED. AID PROJECT	

UNITS 4 & 6  
BILL OF MATERIAL



**NOTES:**  
For Section C-C, see Sheet S-8.  
For Section B-B, see Sheet S-10.



Bar	No.	Size	Radius	Length	Shape
a40(E)	166	#5	—	11'- 0"	—
b40(E)	2	#6	2.17	6'- 5"	—
b41(E)	2	#6	2.67	8'- 0"	—
b42(E)	2	#6	3.17	9'- 7"	—
b43(E)	2	#6	3.67	11'- 2"	—
b44(E)	2	#6	4.17	12'- 9"	—
b45(E)	2	#6	4.67	14'- 4"	—
b46(E)	2	#6	5.17	15'- 10"	—
b47(E)	2	#6	5.67	17'- 5"	—
b48(E)	2	#6	6.17	19'- 0"	—
b49(E)	2	#6	6.67	20'- 7"	—
b50(E)	2	#6	7.17	22'- 2"	—
b51(E)	2	#6	7.67	23'- 9"	—
b52(E)	2	#6	8.17	25'- 4"	—
b53(E)	2	#6	8.67	26'- 10"	—
b54(E)	2	#6	9.17	28'- 5"	—
b55(E)	2	#6	9.67	30'- 0"	—
b56(E)	2	#6	10.17	31'- 7"	—
b57(E)	2	#6	10.67	33'- 2"	—
b58(E)	2	#6	11.17	34'- 9"	—
b59(E)	2	#6	11.67	36'- 4"	—
b60(E)	2	#6	12.17	37'- 10"	—
b61(E)	2	#6	12.67	39'- 5"	—
b62(E)	2	#6	13.17	41'- 0"	—
b63(E)	2	#6	2.17	6'- 5"	—
b64(E)	2	#6	3.08	9'- 4"	—
b65(E)	2	#6	4.00	12'- 3"	—
b66(E)	2	#6	4.92	15'- 2"	—
b67(E)	2	#6	5.83	18'- 0"	—
b68(E)	2	#6	6.75	20'- 11"	—
b69(E)	2	#6	7.67	23'- 9"	—
b70(E)	2	#6	8.58	26'- 7"	—
b71(E)	2	#6	9.50	29'- 6"	—
b72(E)	2	#6	10.42	32'- 4"	—
b73(E)	2	#6	11.33	35'- 3"	—
b74(E)	2	#6	12.25	38'- 1"	—
b75(E)	2	#6	13.17	41'- 0"	—
h40(E)	4	#4	2.33	6'- 11"	—
h41(E)	4	#4	13.00	40'- 6"	—
s40(E)	26	#4	—	1'- 7"	—
x40(E)	36	#5	—	5'- 1"	—
x41(E)	24	#5	—	8'- 1"	—
x42(E)	12	#5	—	5'- 8"	—
Concrete Superstructure				Cu. Yd.	16.4
Reinforcement Bars, Epoxy Coated				Pound	5,090

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FILE NAME: IL\_PDF.dwg  
PLOT DRIVER: pldtbl.tbl  
PEN TABLE:



**KMI**  
Kalsoumi Mehdi, Inc.  
ARCHITECTS & ENGINEERS  
223 Wackeron Blvd., Suite 1010 Chicago, IL 60606  
Tel: (312)987-5900 Fax: (312)987-5892

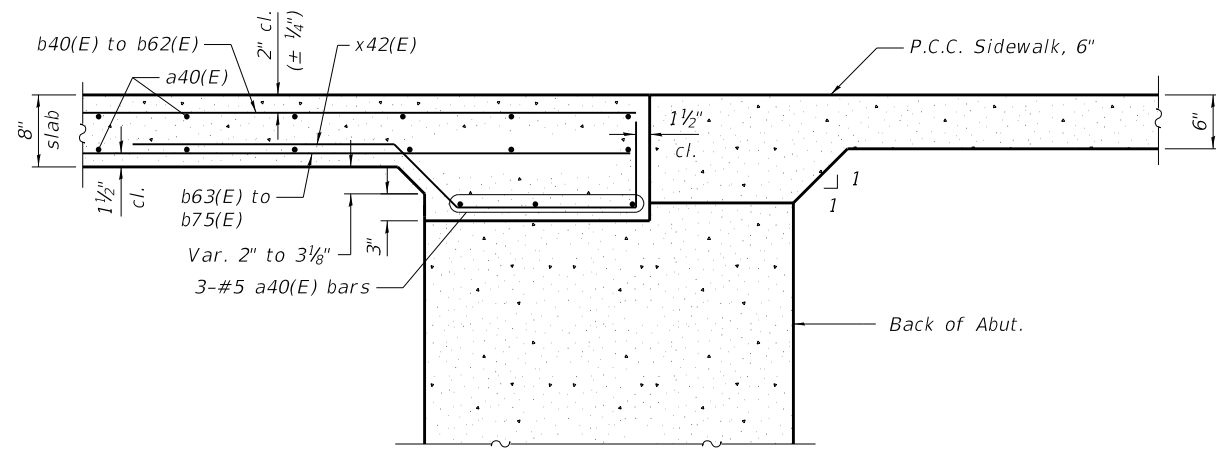
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CHECKED -	AEU	REVISED -	
DRAWN -	WJH	REVISED -	
DATE -	10/5/2020	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

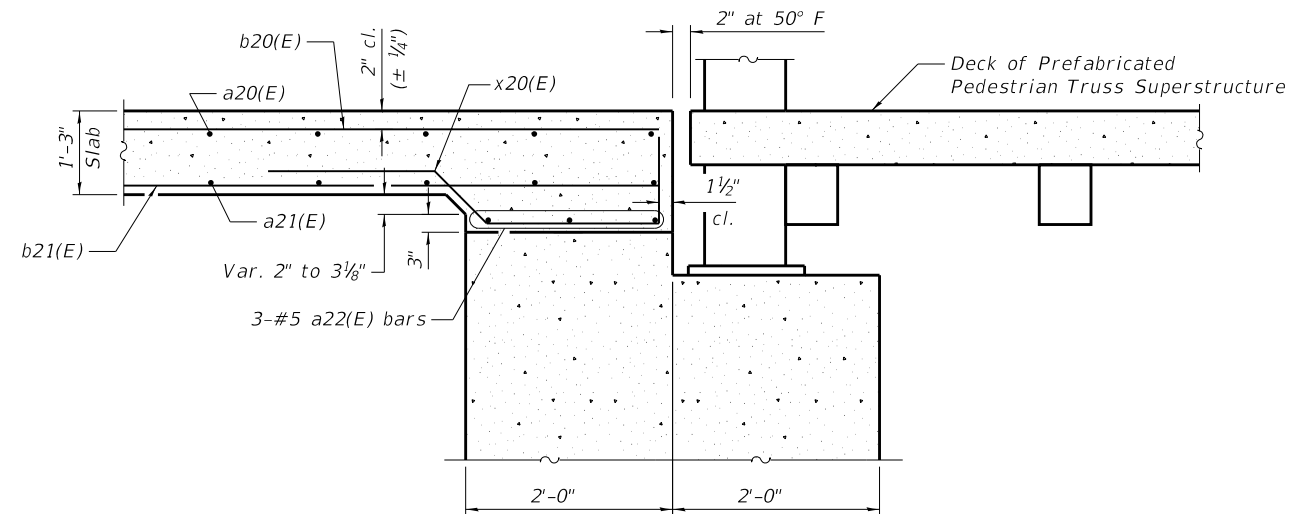
DECK PLAN AND DETAILS - UNITS 4 & 6

SHEET NO. S-9 OF S-35 SHEETS

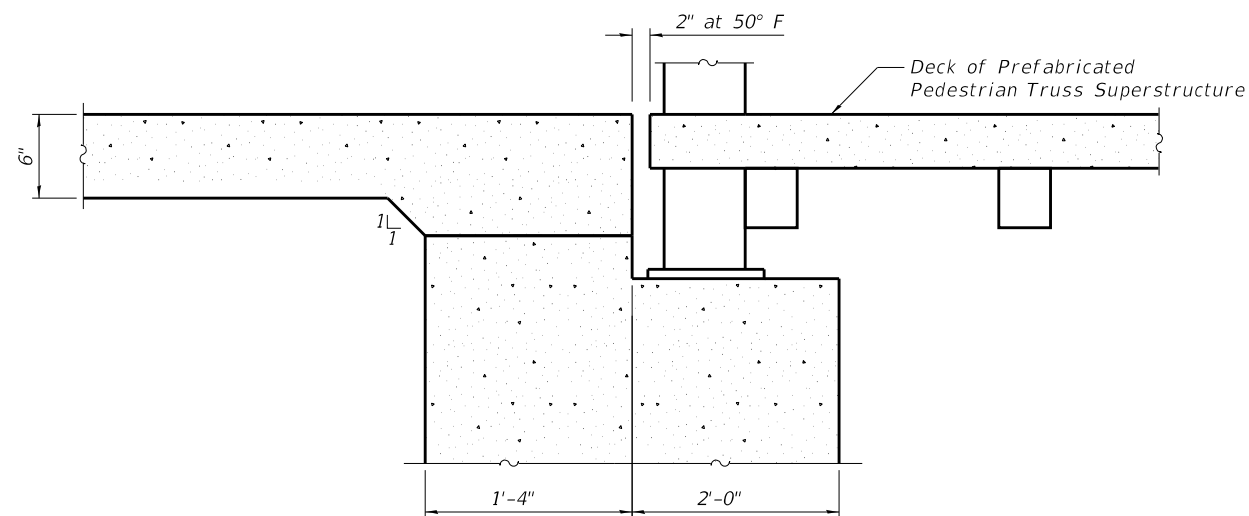
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N/A	12-00097-00-BR	LAKE	65	31
CONTRACT NO. 61F89			ILLINOIS FED. AID PROJECT	



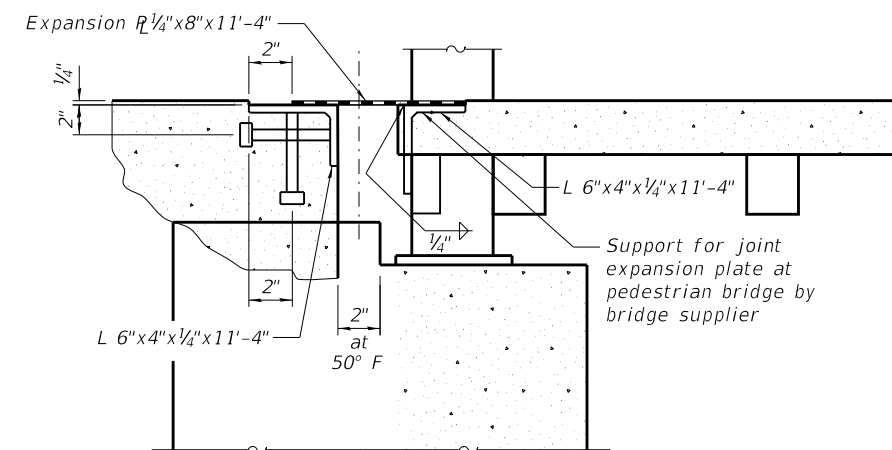
SECTION AT EAST ABUTMENT  
SECTION B-B



SECTION AT PIER 1  
SECTION A-A



SECTION AT WEST ABUTMENT



JOINT DETAIL  
(at Pier 1 & West Abutment)

**NOTES:**

Work this sheet with sheets S-7 through S-10

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HRG PROJ. CONTACT: 80756.Str\_Deck\_Details.dgn  
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DESIGNED -	JMW/OS	REVISED -	
CHECKED -	AEU	REVISED -	
DRAWN -	WJH	REVISED -	
DATE -	10/5/2020	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

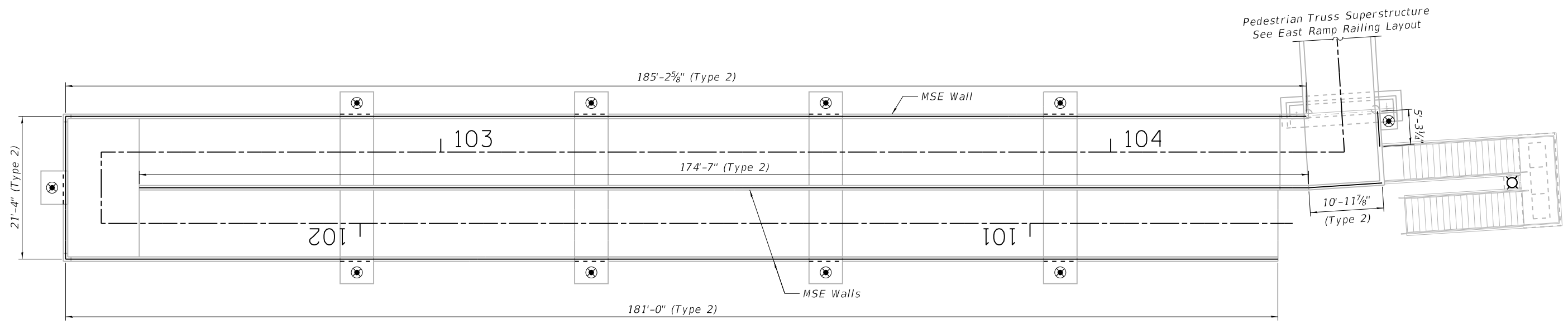
DECK DETAILS

SHEET NO. S-10 OF S-35 SHEETS

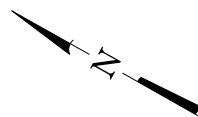
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	32
CONTRACT NO. 61F89				

ILLINOIS FED. AID PROJECT





PLAN



# KEY NOTES

- 1 Recommended Rail Splice Location
- 2 Recommended Expansion Joint (Gap) in Rail Location

Notes:

Type 1 Railing at Elevated Deck/Slab unless otherwise noted.

Type 2 Railing at MSE Wall Locations unless otherwise noted.

Provide rail splice at no more than max. spacing limits per the railing details, with additional splice locations as noted in plan.

HRC PROJECT NO.: 80756  
 HRC PROJ CONTACT: 80756\_Str\_Railing\_Layout\_West.dgn  
 FILE NAME: IL.pdf, b.w.plt, etc.  
 PLOT DRIVER: pldtbl.tbl  
 PEN TABLE:



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 223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
 Tel.: (312)987-5900 Fax.: (312)987-5892

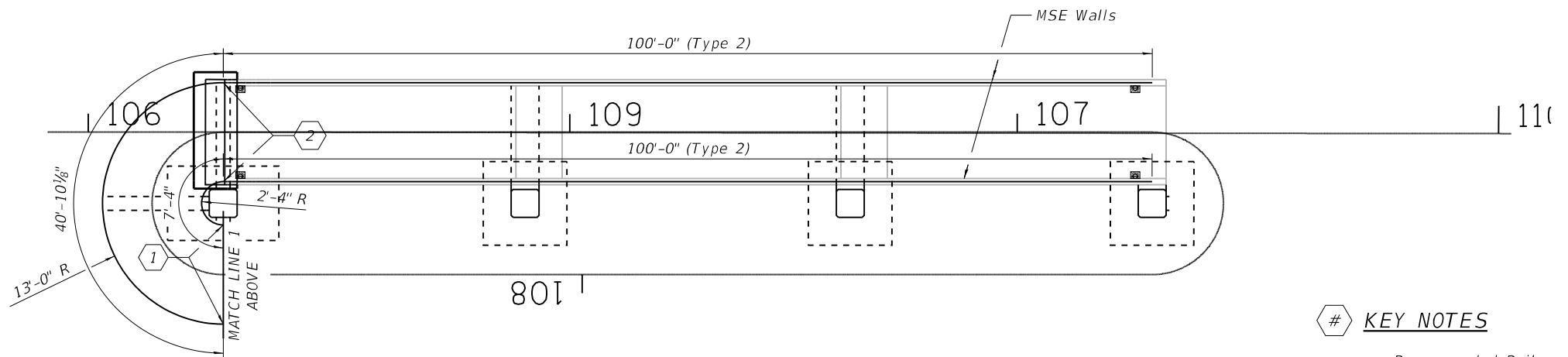
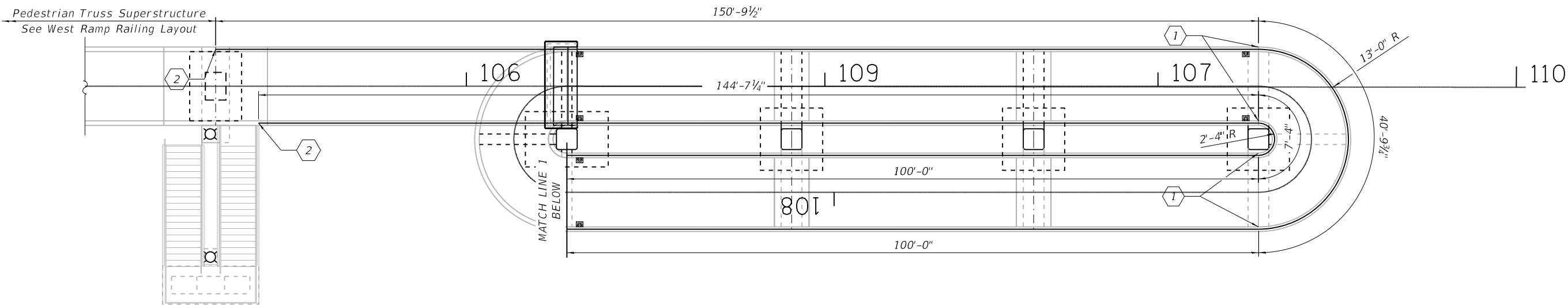
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CHECKED -	AEU	REVISED -	
DRAWN -	WJH	REVISED -	
DATE -	10/5/2020	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WEST RAMP RAILING LAYOUT**

SHEET NO. S-11 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	33
CONTRACT NO. 61F89				
ILLINOIS FED. AID PROJECT				



# KEY NOTES

- 1 Recommended Rail Splice Location
- 2 Recommended Expansion Joint (Gap) in Rail Location

**Notes:**  
Type 1 Railing at Elevated Deck/Slab unless otherwise noted.

Type 2 Railing at MSE Wall Locations unless otherwise noted.

Provide rail splice at no more than max. spacing limits per the railing details, with additional splice locations as noted in plan.

HRC PROJECT NO.: 80756  
 HRC PROJ. CONTACT: 80756\_Str\_Railing\_Layout\_East.dgn  
 FILE NAME: IL\_paf\_bw.plt  
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 PEN TABLE:



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223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
Tel.: (312)987-5900 Fax.: (312)987-5892

DESIGNED - JMW/OS	REVISED -
CHECKED - AEU	REVISED -
DRAWN - WJH	REVISED -
DATE - 10/5/2020	REVISED -

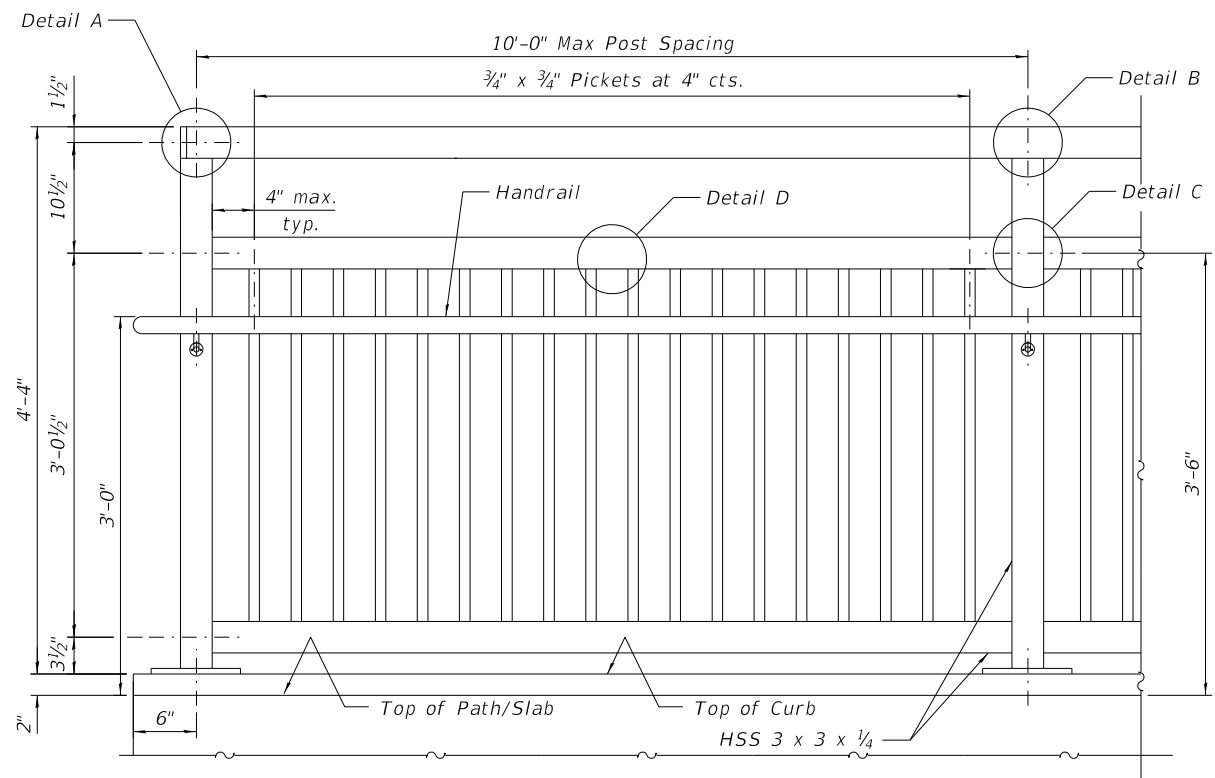
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST RAMP RAILING LAYOUT**

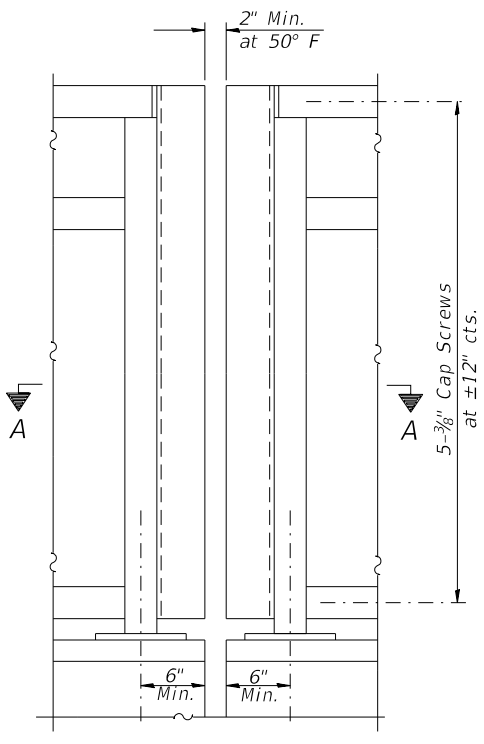
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RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61F89				

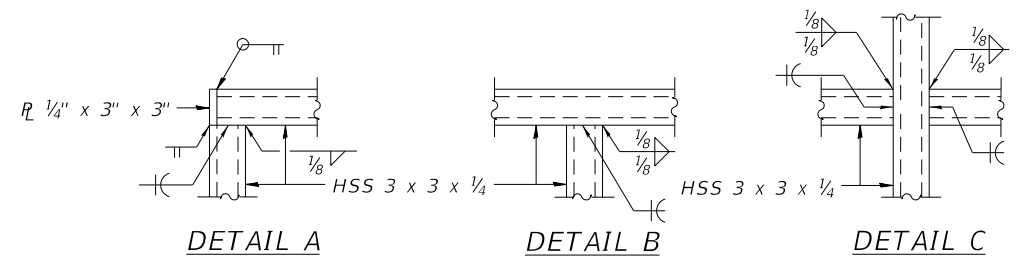
ILLINOIS FED. AID PROJECT



**STEEL RAILING (SPECIAL)**



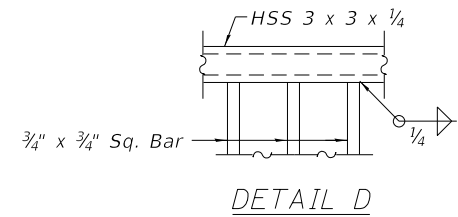
**STEEL RAILING (SPECIAL)**  
(at Expansion Joints)



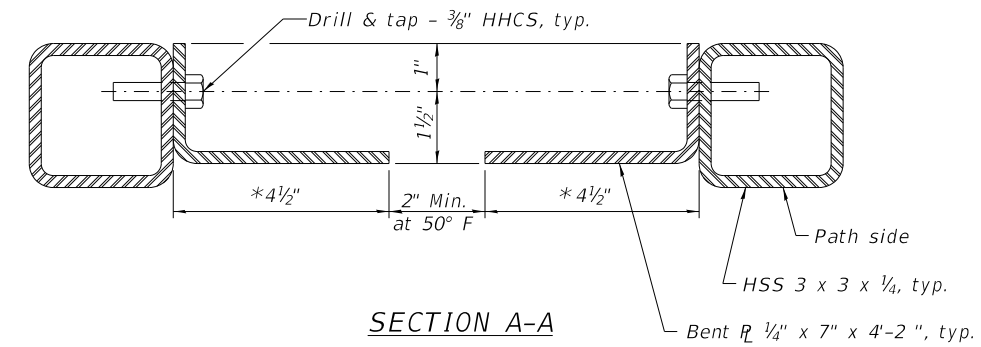
**DETAIL A**

**DETAIL B**

**DETAIL C**

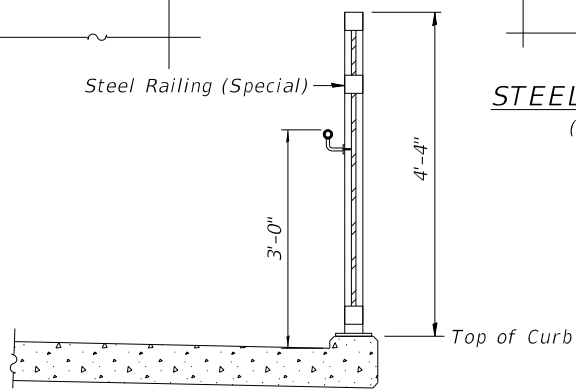


**DETAIL D**

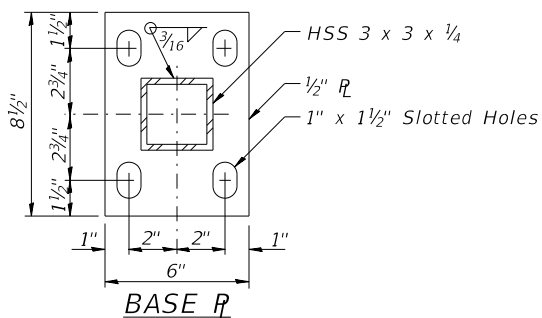


**SECTION A-A**

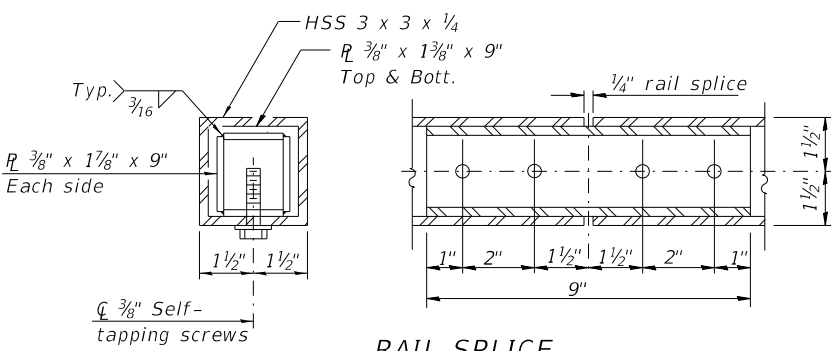
\*Attach similar angles between west ramp railing and end of pedestrian truss. Typical angle sizes at south railing joint between pedestrian truss and ramp. 8" long leg angles at north railing joint between pedestrian truss and ramp railing.



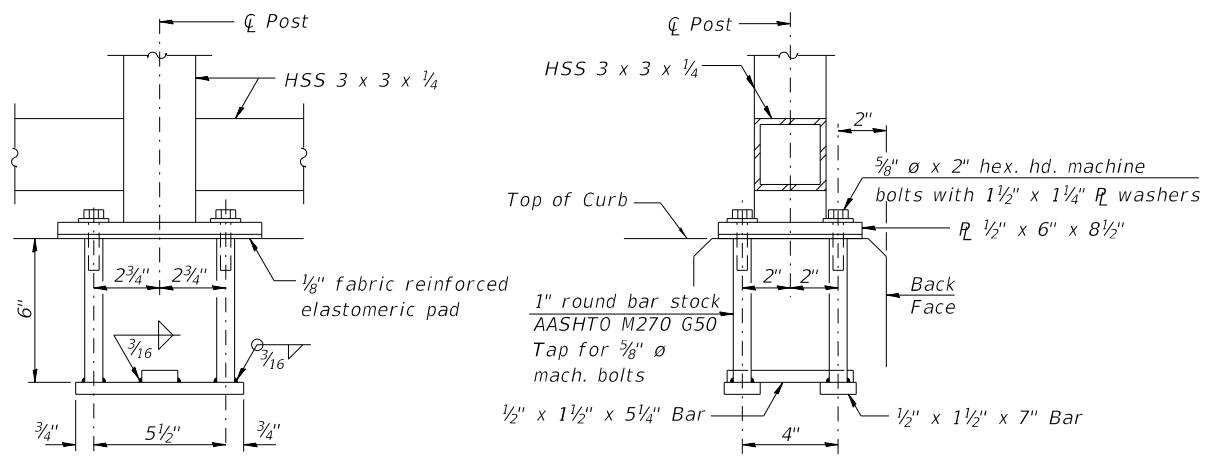
**SECTION THRU DECK**



**BASE R**

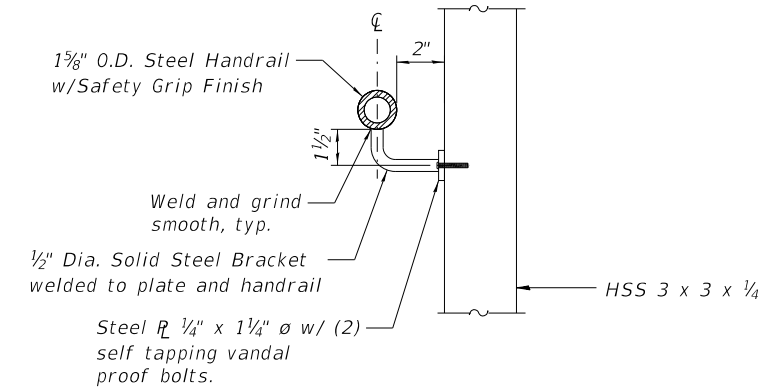


**RAIL SPLICE**



**ANCHOR BOLT DETAILS**

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



**HANDRAIL DETAIL**

(Handrail to be painted same color & using same process as railing)

**NOTES:**

Space reinforcement to miss anchor rods. All post, railing, splices, anchor devices, and bent plates shall be painted using one coat of zinc rich primer and two coats of black acrylic enamel paint. The exact color shall be submitted to the Engineer for approval prior to painting any railing elements.

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing (Special)	Foot	1,372

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 HRG PROJ. CONTACT: 80756 Str. Rolling Details.dgn  
 FILE NAME: IL.pdf, bw.pdf, cf.pdf  
 PLOT DRIVER: plc-habell.tbl  
 PEN TABLE:

**HRGreen.com**  
 Multi Professional Design Firm  
 #184-001322

**KMI**  
 Katsouni Mehdi, Inc.  
 ARCHITECTS & ENGINEERS  
 223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
 Tel.: (312)987-5900 Fax: (312)987-5892

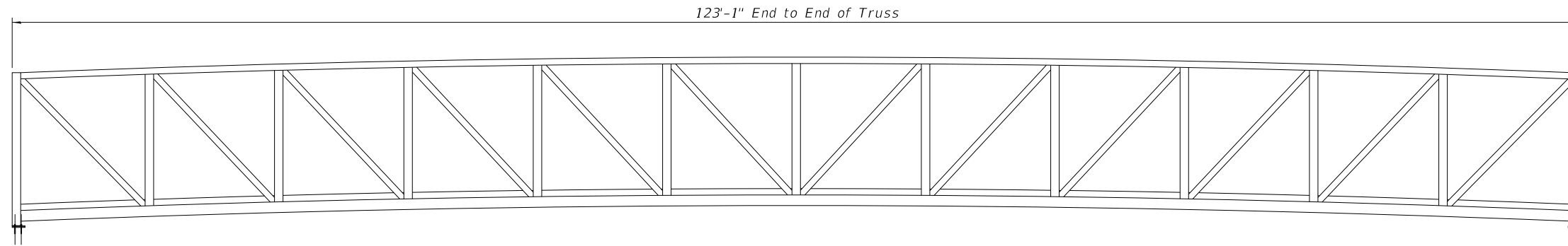
DESIGNED - JMW/OS	REVISED -
CHECKED - AEU	REVISED -
DRAWN - WJH	REVISED -
DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

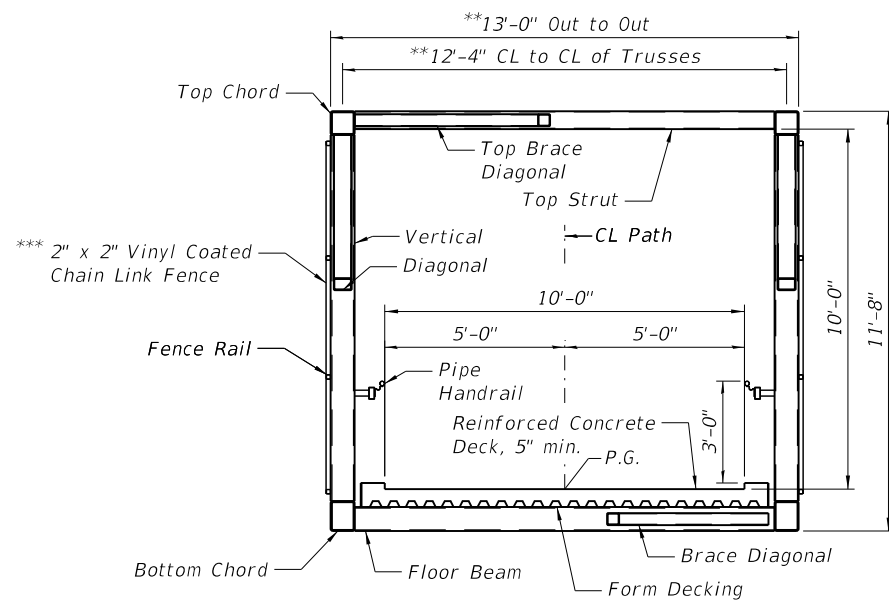
**BRIDGE RAILING DETAILS**

SHEET NO. S-13 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	35
CONTRACT NO.			61F89	
ILLINOIS FED. AID PROJECT				

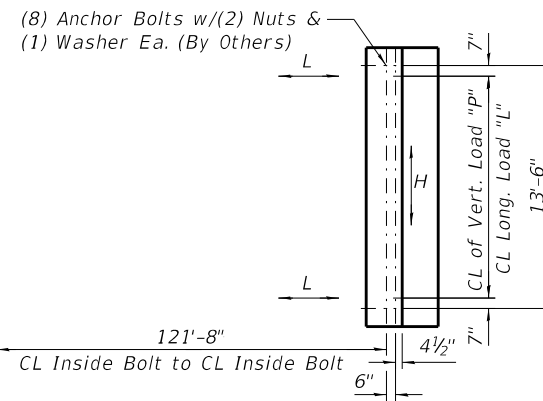


**ELEVATION**



**CROSS SECTION THRU TRUSS**

\*\*Subject to refinement per Truss Manufacturer. Structure depth does not include height of bearing. Truss supplier shall provide joint covers over open joints between span units. (2 locations).  
 \*\*\* Fence to be Black Vinyl Coated per Section 1006.27(a)(1) of the Standard Specifications. Chain Link Fence material and installation shall be included in the unit price for Pedestrian Truss Superstructure.



**PLAN**

**TRUSS REACTION TABLE**

	P (Lbs)	H (Lbs)	L (Lbs)
Dead Load	41,125		
Uniform Live Load	27,450		
Vehicle Load	5,000		
Wind Uplift (20psf)	-11,575		
Wind	± 13,210	24,230	
Thermal			6,170

"P" - Vertical Load at Each Base Plate (4 per Bridge)  
 "H" - Horizontal Load at Each Footing (2 per Bridge)  
 "L" - Longitudinal Load at Each Bearing (4 per Bridge)  
 + Downward Load  
 - Upward Load

**TRUSS MANUFACTURER**

The substructure is designed per AASHTO LRFD and based on the assumed truss loads (including deck) as shown on this sheet.

Truss manufacturer shall camber the truss as necessary to provide allowance for dead load deflection.

Bridge bearing seat elevations are subject to revision based on the approved pedestrian truss superstructure shop drawings.

Truss manufacturer shall provide the reinforced concrete deck design. Concrete deck to utilize stay-in-place galvanized forms. Reinforcement shall be epoxy coated. Contractor shall place the concrete deck after truss is set. Cost included with Pedestrian Truss Superstructure.

Design of pedestrian bridge shall accommodate anticipated dead and live load deflections so that no sag occurs within the bridge span. Pedestrian bridge profile must be either flat (when fully loaded), or have a slight upward camber.

Truss shall not use weathering steel, instead, steel shall meet the requirements for AASHTO M270 Grade 50. High strength bolts shall conform to ASTM A325 (Type 1). Where special provisions and these plans differ, these plans shall govern.

Truss and appurtenances shall be painted using a three coat system that conforms to Section 1008.05 of the Standard Specification. Finish color shall be black. The exact color shall be submitted to the Engineer for approval prior to painting any truss elements.

**BILL OF MATERIAL**

Item	Unit	Total
Pedestrian Truss Superstructure	SQ FT	1,234

HRC PROJECT NO.: 80756  
 HRC PROJ. CONTACT: 80756.Str.Pedestrian Truss Unit.dgn  
 FILE NAME: IL.pdf.dwg  
 PLOT DRIVER: il.pdf.dwg  
 PEN TABLE: p10-habel.tbl

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DRAWN - WJH	REVISED -
DATE - 10/5/2020	REVISED -

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**PEDESTRIAN TRUSS SUPERSTRUCTURE - UNIT 1**

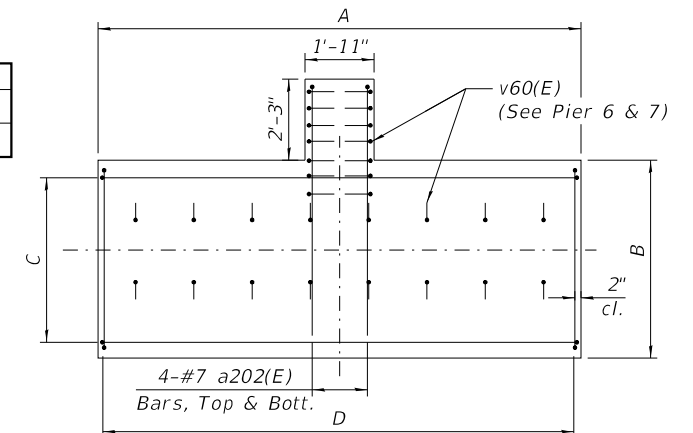
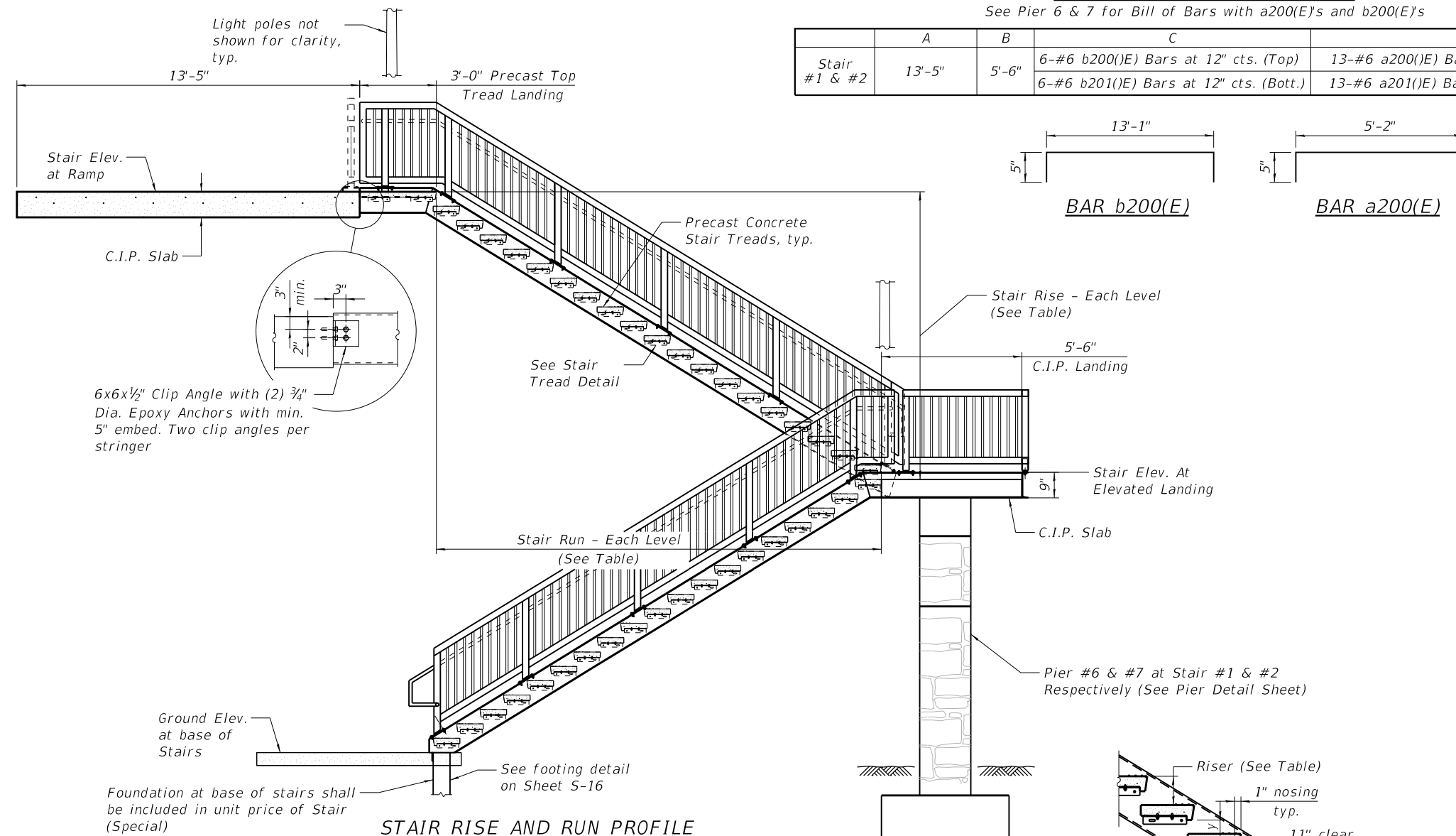
SHEET NO. S-14 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	36
CONTRACT NO. 61F89			ILLINOIS FED. AID PROJECT	

**STAIR LANDING INFORMATION**

See Pier 6 & 7 for Bill of Bars with a200(E)'s and b200(E)'s

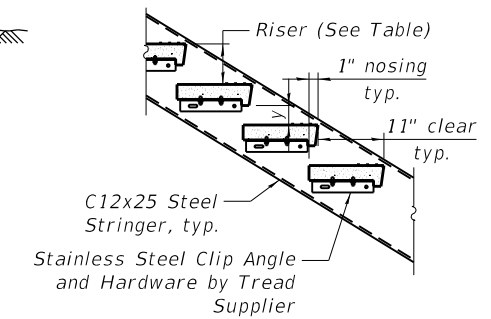
Stair	A	B	C	D
#1 & #2	13'-5"	5'-6"	6-#6 b200(E) Bars at 12" cts. (Top) 6-#6 b201(E) Bars at 12" cts. (Bott.)	13-#6 a200(E) Bars at 12" cts. (Top) 13-#6 a201(E) Bars at 12" cts. (Bott.)



**CONCRETE SLAB OVER PIER - PLAN (STAIR #1 & #2)**  
(Concrete Slab paid for as Concrete Superstructure)

**STAIR RISE AND RUN PROFILE**

See Stair Rise and Run Table for Stair Dimensions and Number of Stair Runs at Each Location. Note: Elevated Landing with Stair Switchback is Only Present Where Noted in Table and In Plan.



**TYPICAL TREAD DETAIL**

y = Opening Between Treads Shall Be < 4"

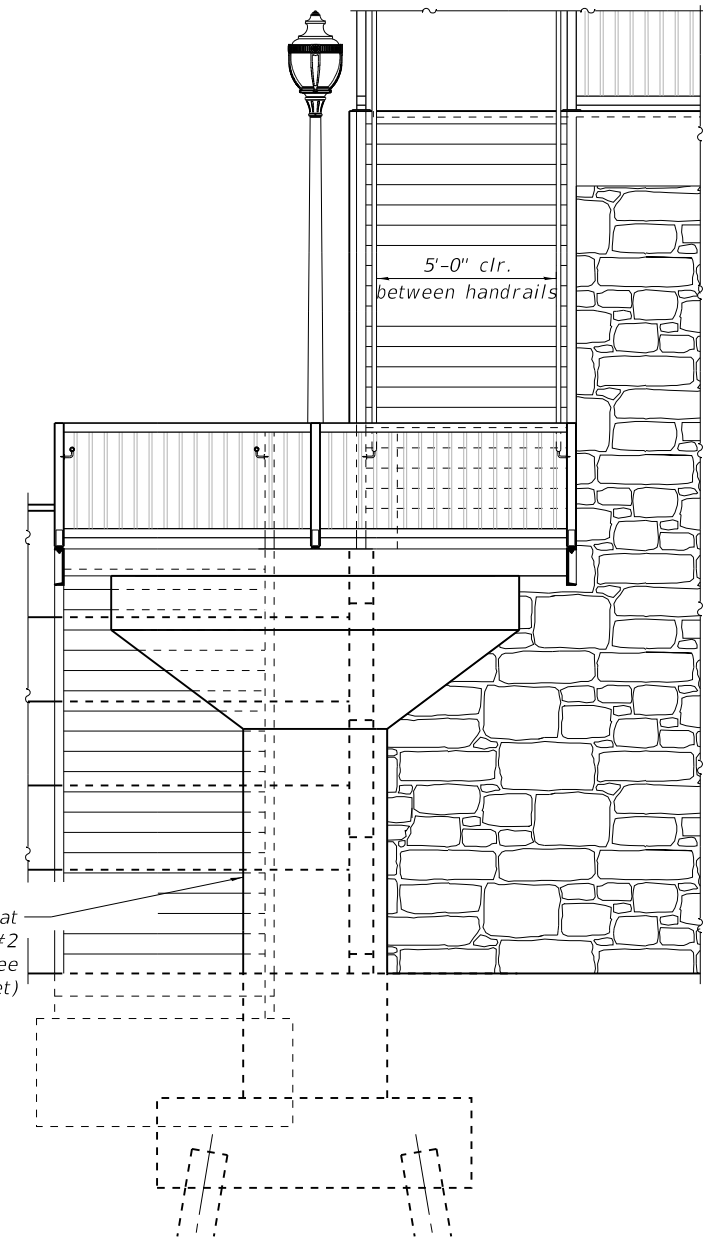
**STAIR RISE AND RUN TABLE**

Stair Number	Location	Between Landings		Elevated 5' Landing	No. of Stair Runs (between landings)	Stair Elev. At Ramp	Stair Elev. At 5' Elevated Landing	Ground Elev. At Base of Stairs	Centerline of Stair Sta. at Ramp Tie-In
		Rise	Run						
#1	East Ramp	11'-3"	19'-3"	Yes	2	766.91	755.66	744.41	104+34.88, 2.15' Rt
#2	West Ramp	11'-3"	19'-3"	Yes	2	766.91	755.66	744.41	105+66.99

**Notes:**

- Intermediate 3' Landings are to be constructed integral to precast stairs that span between supported landings
- Individual Stair Risers are assumed to be 6 3/8" tall, but shall be verified by precast stair manufacturer and Contractor based on final site grading.
- Individual Stair Treads are assumed to be 11" clear with a 1" nosing projection of the stair tread below, but shall be verified by precast stair manufacturer.

Pier #6 & #7 at Stair #1 & #2 Respectively (See Pier Detail Sheet)



**STAIR #1 ELEVATION (Stair #2 Similar)**

HRG PROJECT NO.: 80756  
HRG PROJ. CONTACT: 80756 Str. Stair Details.dgn  
FILE NAME: 80756 Str. Stair Details.dgn  
PLOT DRIVER: il\_paf.bwafrcg  
PEN TABLE: pta-table.tbl

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DATE - 10/5/2020

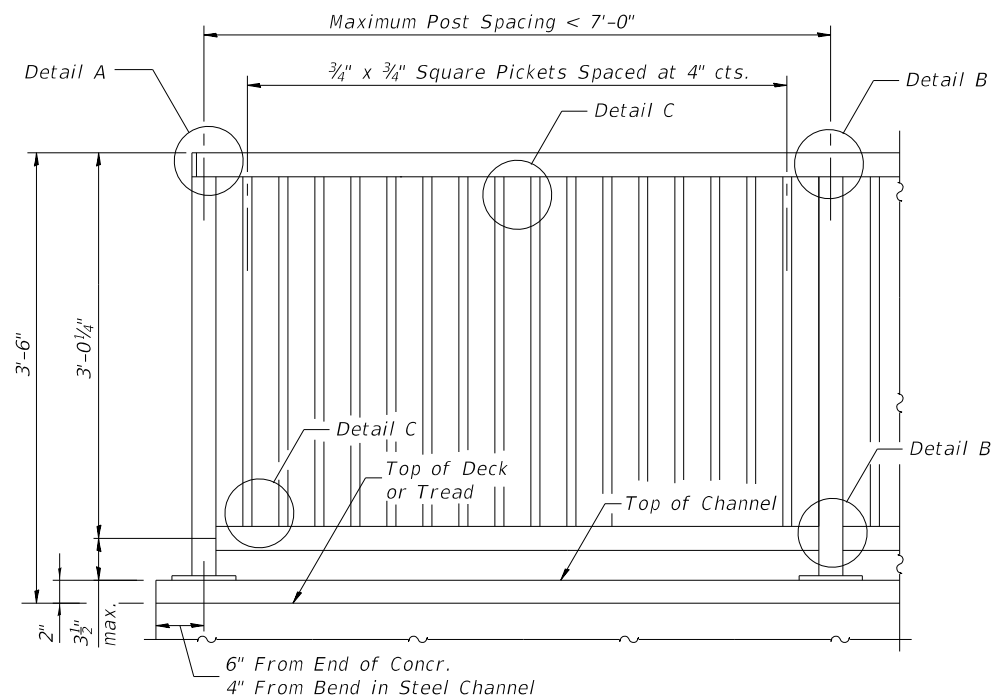
REVISED -  
REVISED -  
REVISED -  
REVISED -

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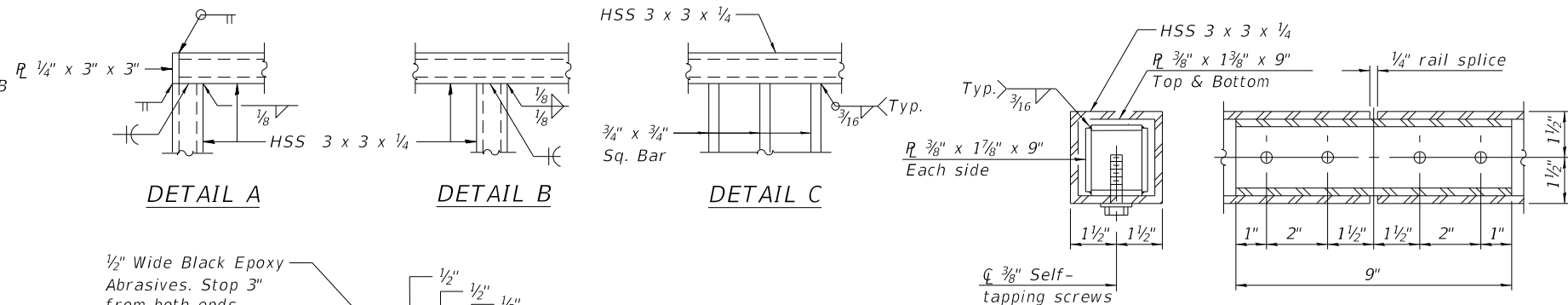
**STAIR DETAILS I**

SHEET NO. S-15 OF S-35 SHEETS

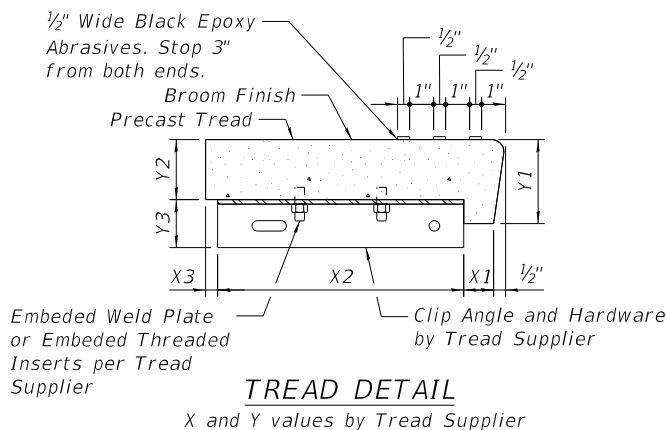
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	37
CONTRACT NO. 61F89			ILLINOIS FED. AID PROJECT	



STAIR RAILING - TYPICAL PANEL AT PLATFORM

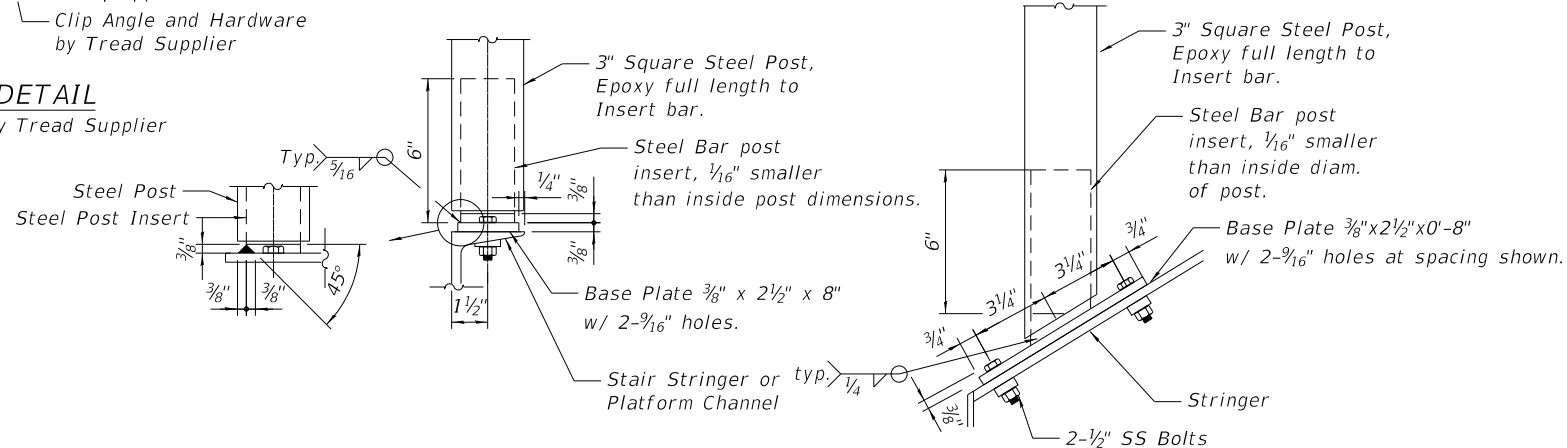


Notes:  
Space reinforcement to miss anchor rods.  
All post, railing, splices, anchor devices, and bent plates shall be painted using one coat of zinc rich primer and two coats of black acrylic enamel paint.  
The exact color shall be submitted to the Engineer for approval prior to painting any railing elements.

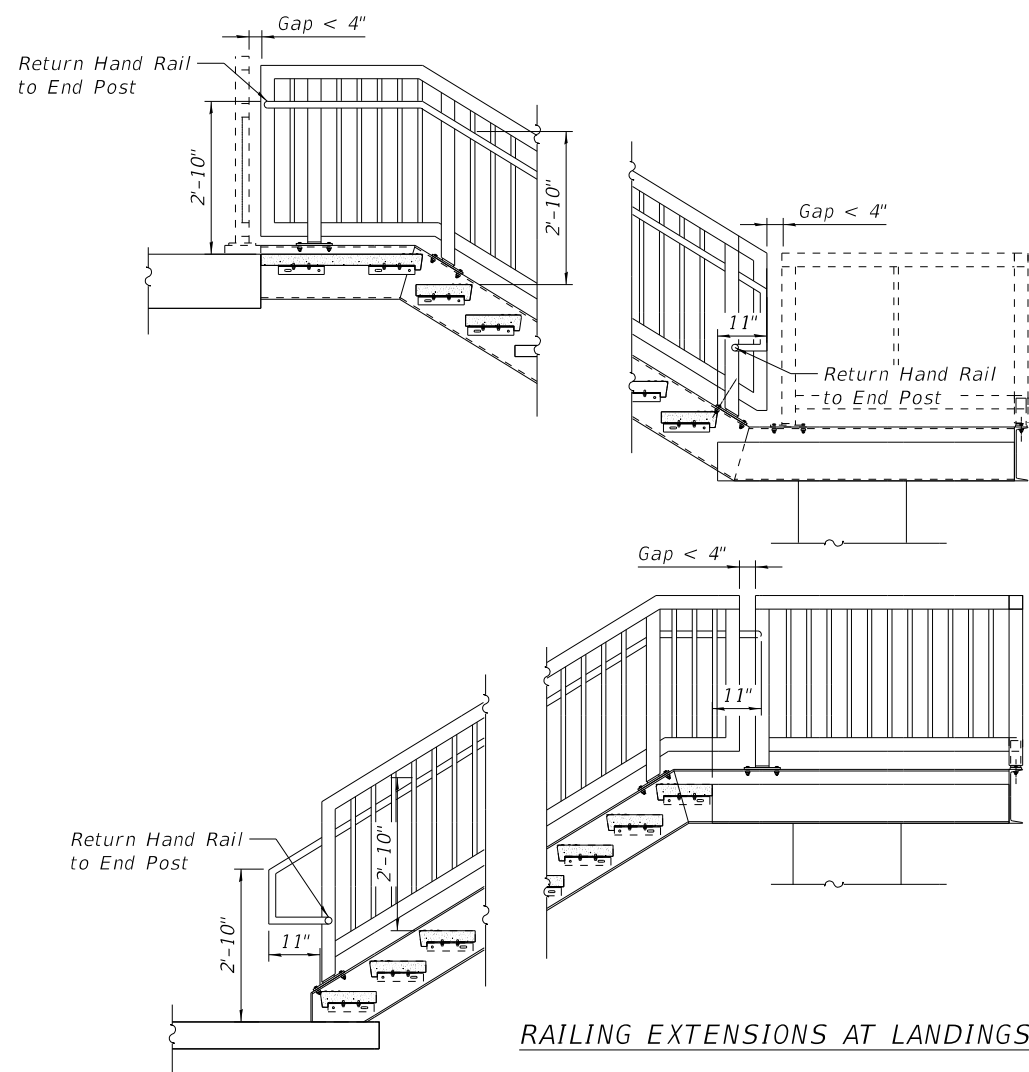


TREAD DETAIL

X and Y values by Tread Supplier

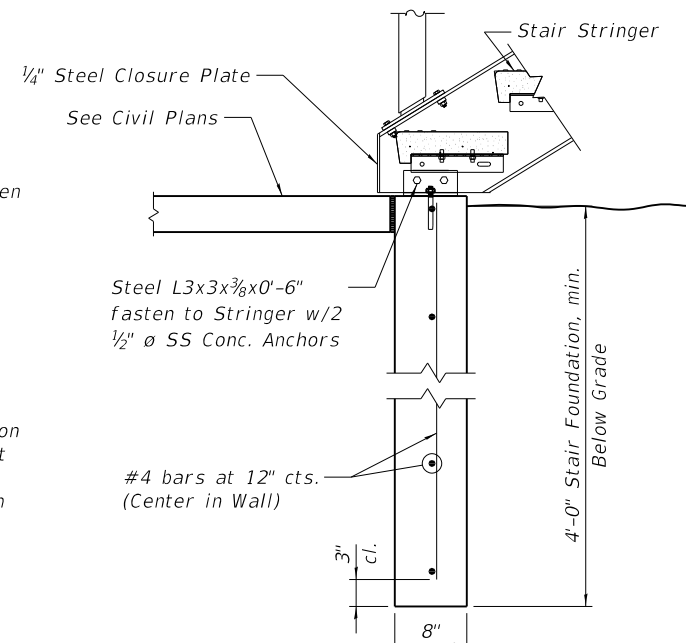
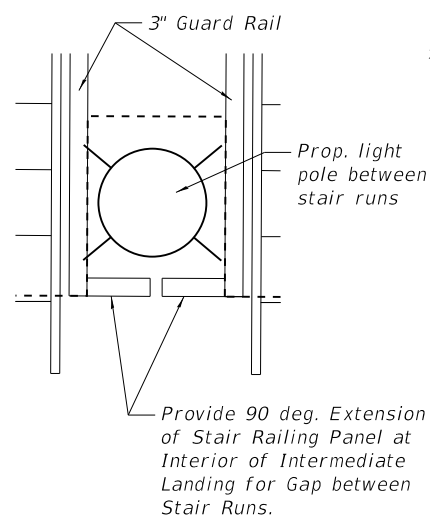


STAIR RAILING POST CONNECTION

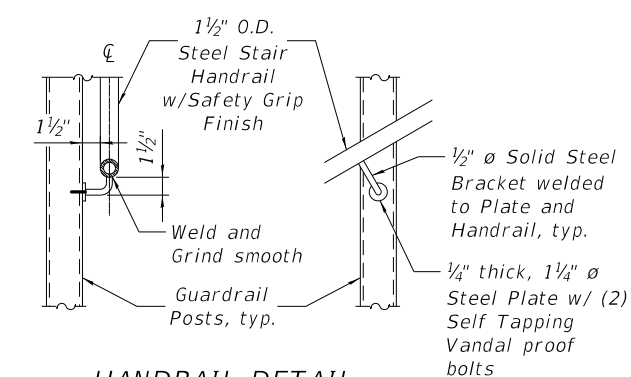


RAILING AT LIGHT POLE  
At Stair #1 & #2 Only

RAILING EXTENSIONS AT LANDINGS



STAIR FOOTING



HANDRAIL DETAIL

BILL OF MATERIAL  
(quantities all stairs)

Item	Unit	Quantity
Stair Railing	Foot	240
Stair (Special)	Sq. Ft.	460
Concrete Superstructure	Cu.Yd.	4.35

HRG PROJECT NO.: 80756  
HRG PROJ. CONTACT: 80756 Str. Stair Detail802.dgn  
FILE NAME: IL.pdf, b.w.p, h.r.g  
PLOT DRIVER: pld-fabell.tbl  
PEN TABLE:

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#184-001322

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REVISED -  
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STATE OF ILLINOIS  
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STAIR DETAILS II

SHEET NO. S-16 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	38

CONTRACT NO. 61F89

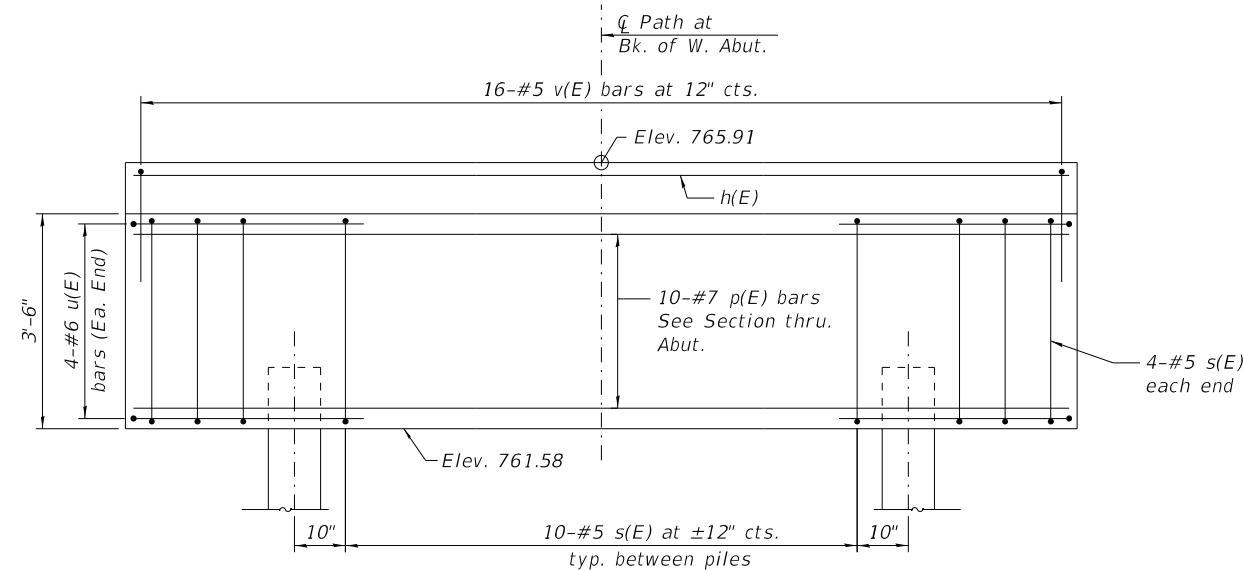
ILLINOIS FED. AID PROJECT

**PILE DATA**

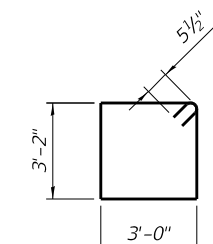
Type & Size: Metal Shell-14 in. dia. x 0.250 in. walls  
 Nominal Required Bearing: 359 Kips  
 Factored Resistance Available: 197 Kips  
 Est. Length: 57 ft.  
 No. Production Piles: 2  
 No. Test Piles: 0

**WEST ABUTMENT  
 BILL OF MATERIAL**

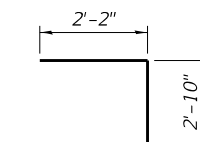
Bar	No.	Size	Length	Shape
h(E)	3	#5	15'- 2"	—
p(E)	10	#7	15'- 2"	—
s(E)	18	#5	13'- 3"	□
u(E)	8	#6	7'- 2"	⌌
v(E)	16	#5	5'- 6"	⌌
Concrete Structures			Cu. Yd.	7.3
Reinforcement Bars, Epoxy Coated			Pound	784
Furnished Metal Shell Piles 14" dia. x 0.250 in.			Foot	114
Driving Piles			Foot	114
Concrete Sealer			Sq. Ft.	44
Staining Concrete Structures			Sq. Ft.	55



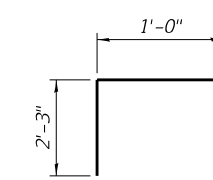
**ELEVATION**



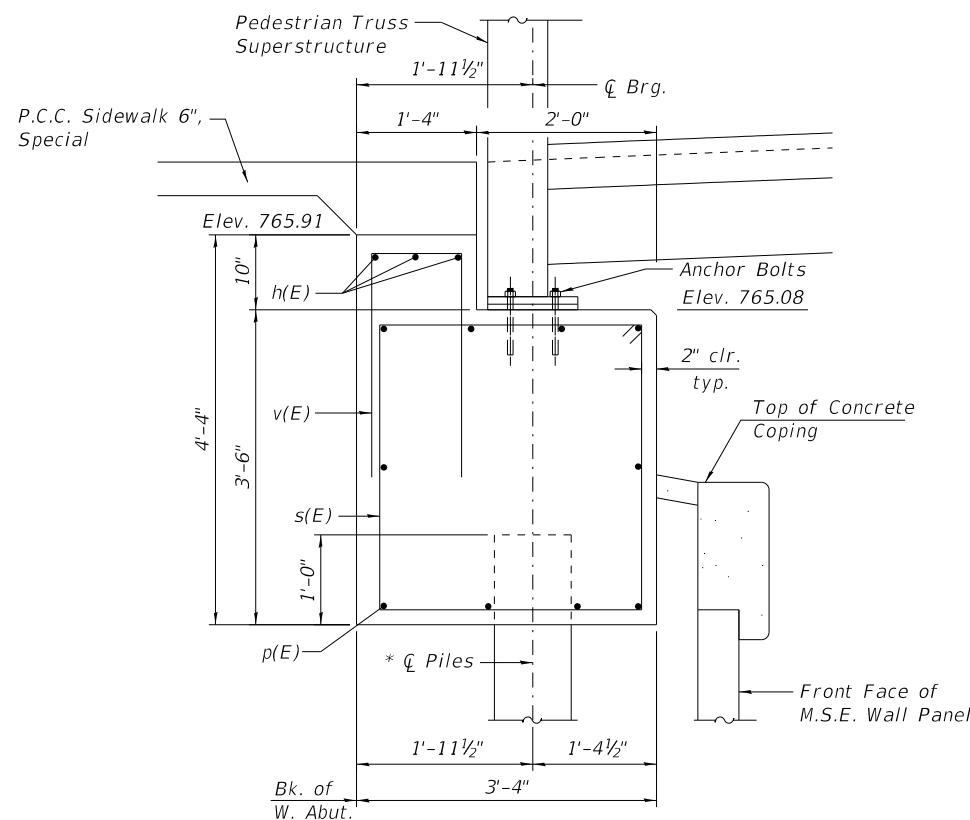
**BAR s(E)**



**BAR u(E)**

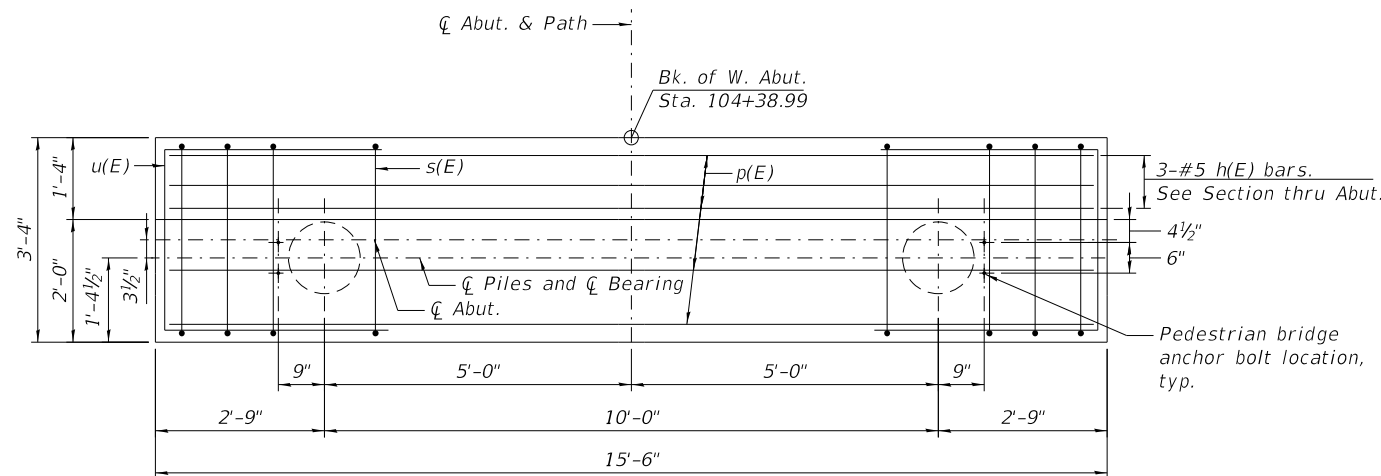


**BAR v(E)**



**SEC. THRU ABUT.**

\* Piles shall be driven prior to placement of the reinforced select fill and coated with coal tar epoxy from the bottom of the select fill to 1" above the base of the abutment. The cost of the coal tar epoxy coating shall be included with the cost of "Furnishing Metal Shell Piles 14"x 0.250".



**PLAN**

**NOTES:**

The M.S.E. wall supplier shall design the abutment soil reinforcement to resist a horizontal force of 0.34 kips/ft. of abutment.

See Sheet S-25 for M.S.E. Wall Details.

The metal shell piles shall be according to ASTM A 252 Grade 3.

HRC PROJECT NO.: 80756  
 HRC PROJ. CONTACT: 80756.Str.West.Abut.dgn  
 FILE NAME: IL.pdf.bw.pdf.cwg  
 PLOT DRIVER: il.pdf.bw.pdf.cwg  
 PEN TABLE: plg.tbl.tbl

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**WEST ABUTMENT**

SHEET NO. S-17 OF S-35 SHEETS

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	39
CONTRACT NO. 61F89				

ILLINOIS FED. AID PROJECT

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d10(E)	2	#7	9'- 9"	—
d11(E)	2	#7	7'- 1"	—
h10(E)	14	#5	15'- 0"	U
n10(E)	30	#8	10'- 10"	—
p10(E)	2	#7	17'- 6"	□
p11(E)	3	#7	20'- 0"	□
p12(E)	4	#7	16'- 10"	□
s10(E)	17	#5	12'- 11"	□
s11(E)	17	#5	10'- 5"	□
s12(E)	17	#5	8'- 1"	□
s13(E)	3	#5	8'- 7"	□
t10(E)	22	#8	7'- 0"	—
u10(E)	21	#5	5'- 10"	□
u11(E)	12	#5	13'- 0"	□
u12(E)	10	#5	4'- 0"	□
v10(E)	32	#5	2'- 4"	—
v11(E)	30	#8	22'- 0"	—
w10(E)	16	#8	9'- 6"	—
Structure Excavation		Cu. Yd.	20	
Concrete Structures		Cu. Yd.	23.90	
Reinforcement Bars, Epoxy Coated		Pound	5,061	
Furnished Metal Shell Piles 14" dia. x 0.250 in.		Foot	204	
Driving Piles		Foot	204	
Test Piles		Each	1	
Form Liner Textured Surface		Sq. Ft.	374	
Staining Concrete Structures		Sq. Ft.	73	
Concrete Sealer		Sq. Ft.	31	

\*\*Order full length, cut to fit in field.

**PILE DATA**

Type & Size: Metal Shell 14 in. dia. x 0.250 in. walls  
 Nominal Required Bearing: 210 kips  
 Factored Resistance Available: 116 kips  
 Est. Length: 29 ft.  
 No. Production Piles: 5  
 No. Test Piles: 1

Indicates direction of 12V:2H Pile Batter

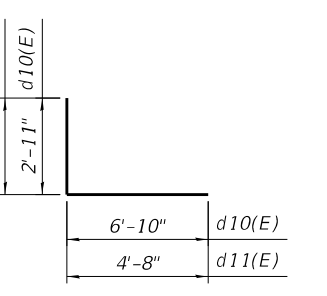
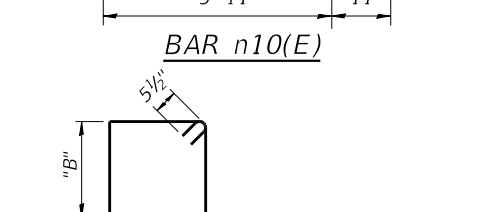
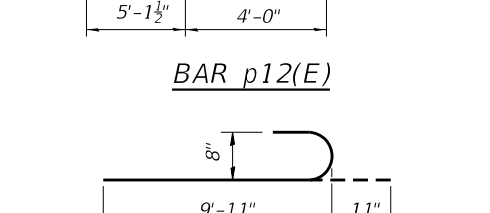
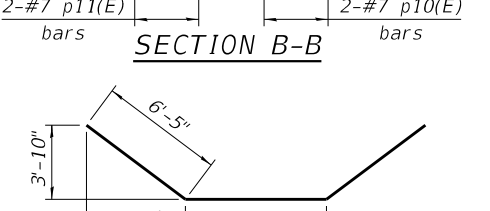
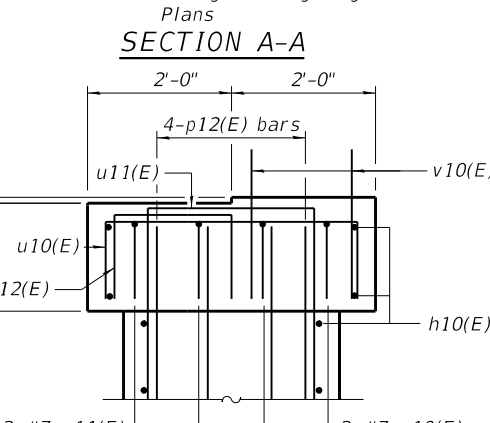
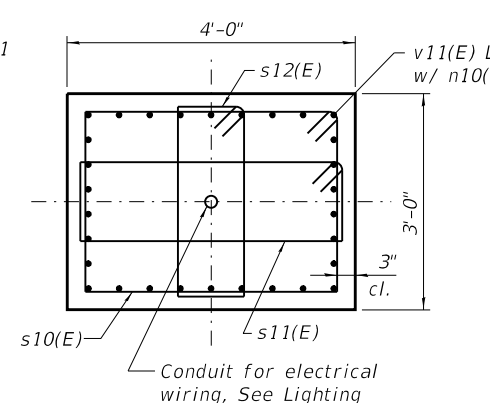
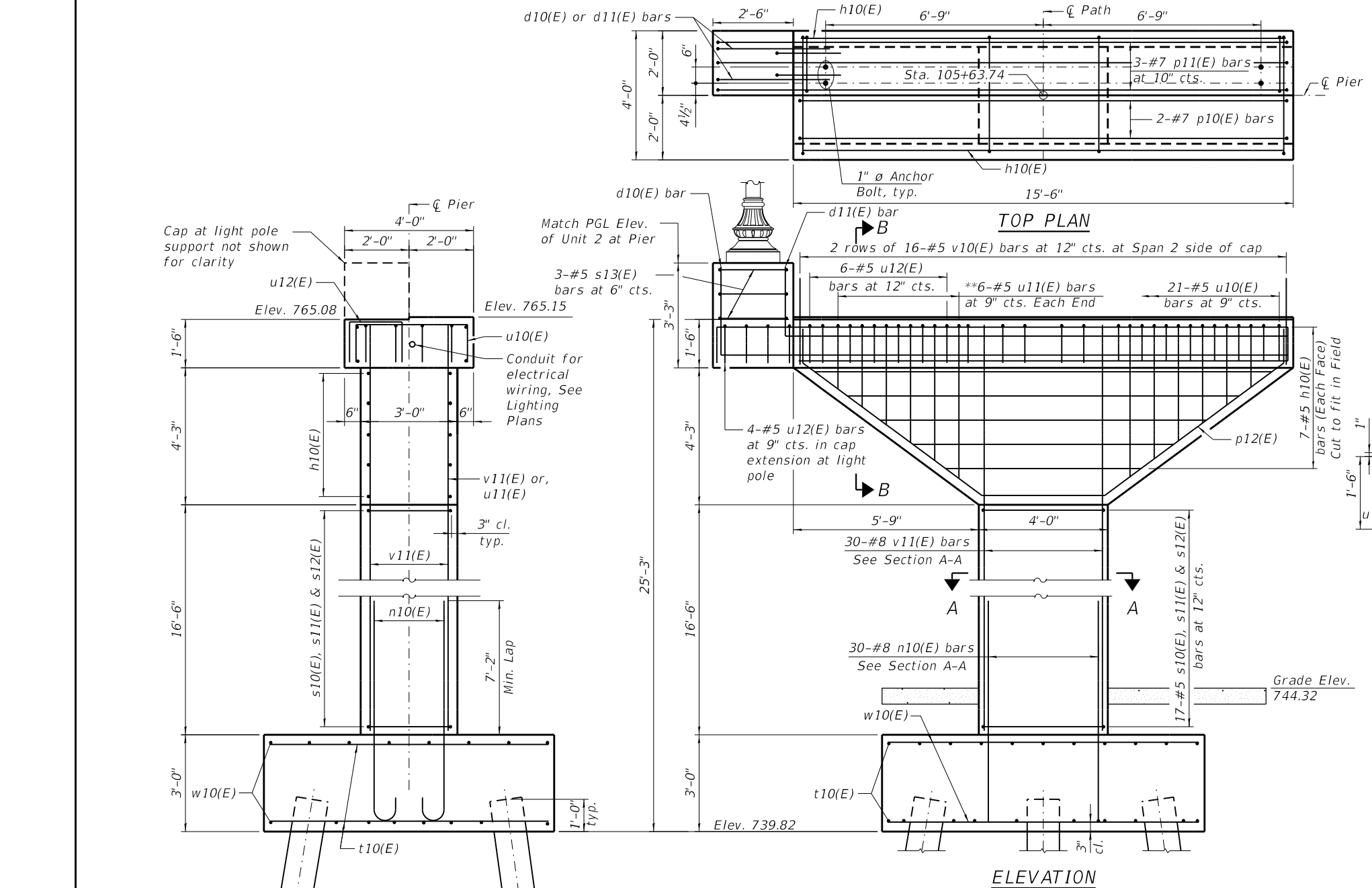
**A & B DIMENSIONS**

Bar	"A"	"B"
u10(E)	3'-6"	1'-2"
u11(E)	3'-6"	4'-9"
u12(E)	1'-8"	1'-2"
p10(E)	15'-2"	1'-2"
p11(E)	17'-8"	1'-2"

**A & B DIMENSIONS**

Bar	"A"	"B"
s10(E)	3'-6"	2'-6"
s11(E)	3'-6"	1'-3"
s12(E)	1'-1"	2'-6"
s13(E)	2'-2"	1'-8"

**BARS p10(E) & p11(E)**  
**BARS u10(E), u11(E) & u12(E)**



**NOTES:**

Space reinforcement in cap to miss anchor bolts.  
 See Sheet S-28 for Architectural Details.

HRG PROJECT NO.: 80756  
 HRG PROJ. CONTACT: 80756 Str. Pier 1 Detail.dgn  
 FILE NAME: IL.pdf, bw.pdf, cf.pdf  
 PLOT DRIVER: plotttbl.tbl  
 PEN TABLE:

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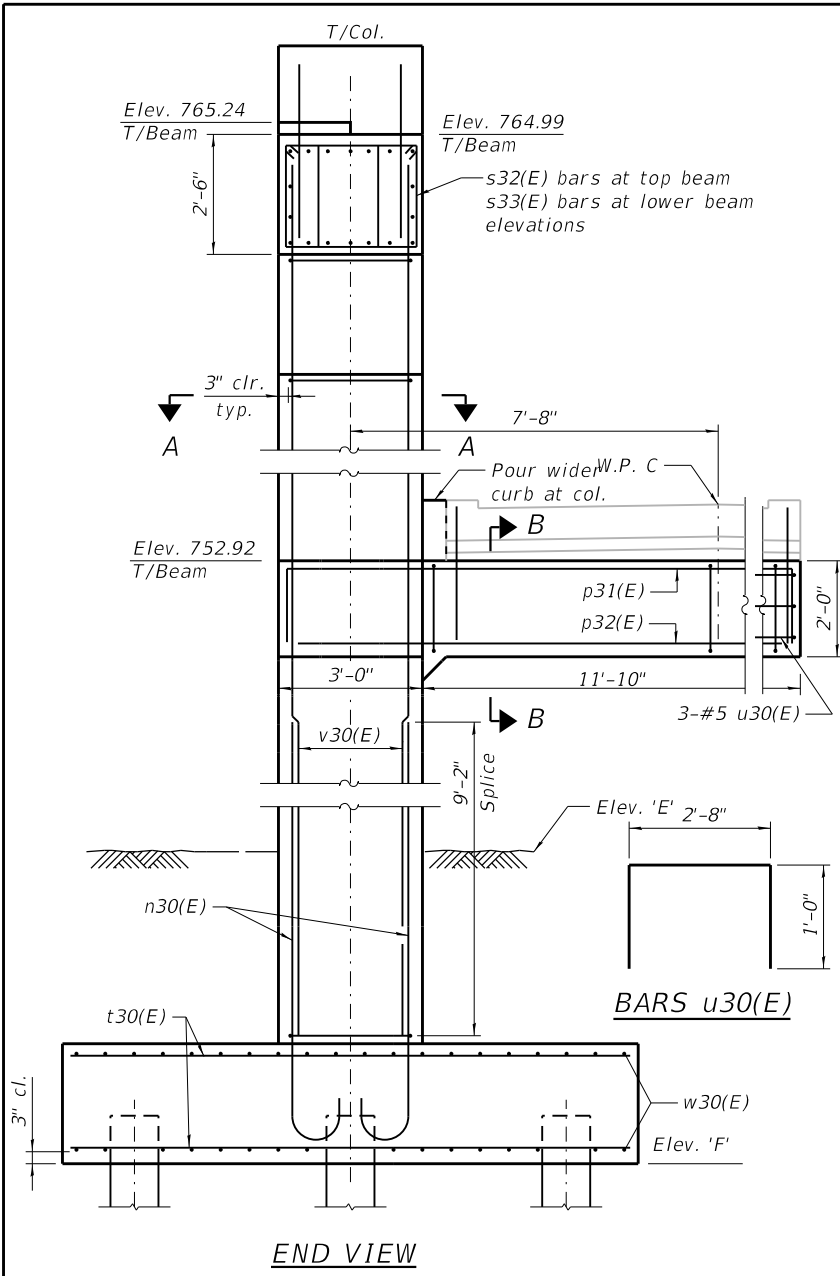
DESIGNED - JMW/OS	REVISED -
CHECKED - AEU	REVISED -
DRAWN - WJH	REVISED -
DATE - 10/5/2020	REVISED -

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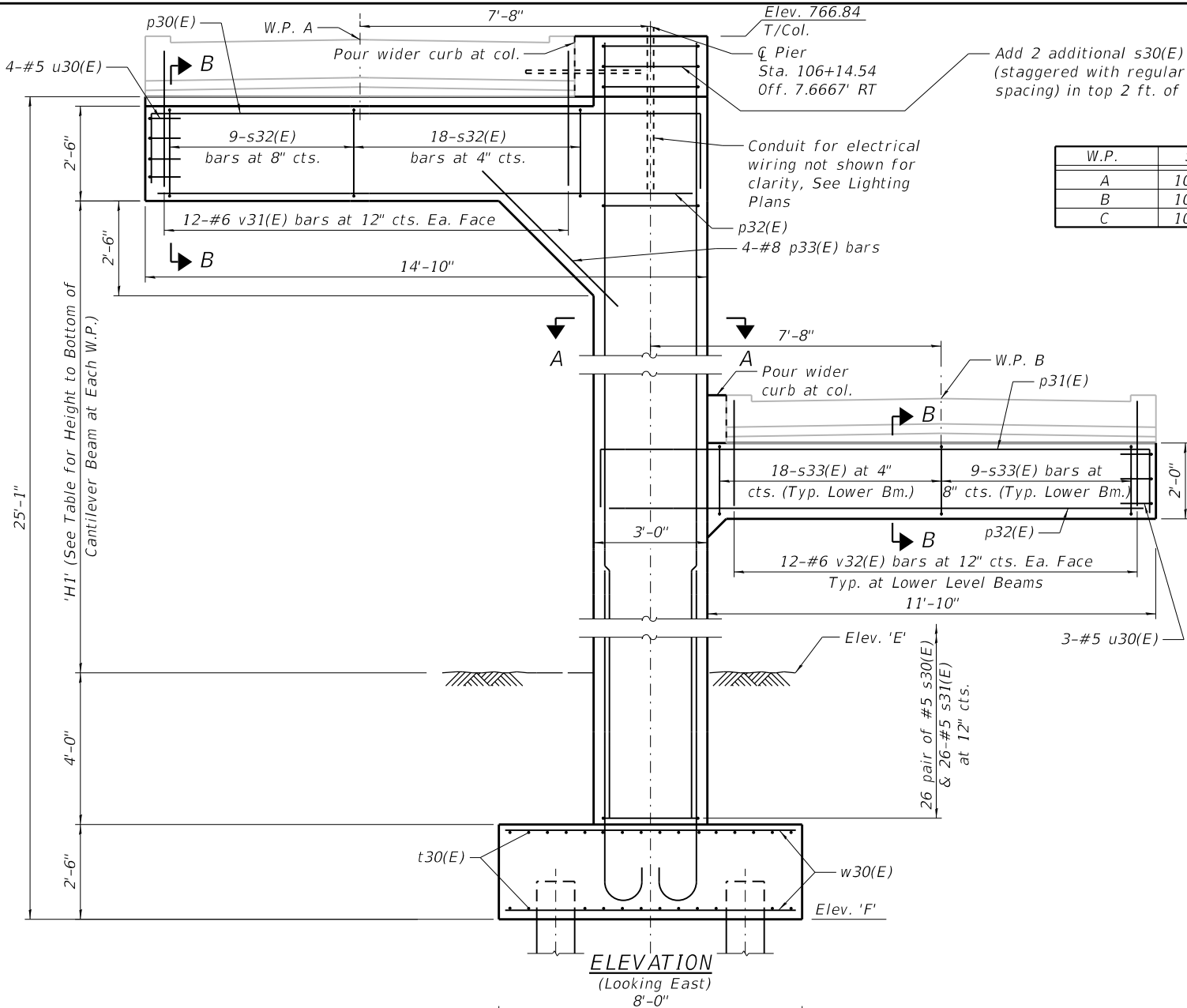
**PIER 1**  
 SHEET NO. S-18 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	40
CONTRACT NO. 61F89			ILLINOIS FED. AID PROJECT	





END VIEW



ELEVATION  
(Looking East)  
8'-0"

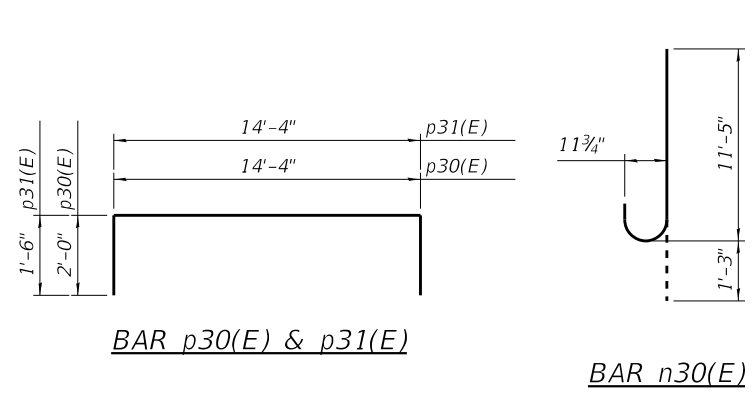
**PIER TABLE**

W.P.	Sta.	W.P. Elev.	Elev. E	Elev. F	H1 (FT)
A	106+14.54	766.75	745.64	739.14	16'-10 1/4"
B	108+38.63	754.43			5'-3 1/4"
C	108+62.70	754.43			5'-3 1/4"

**BILL OF MATERIAL**

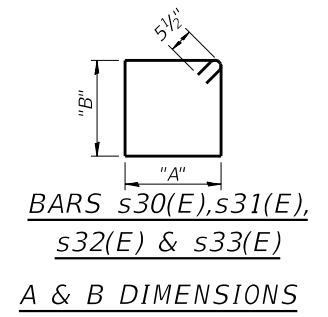
Bar	No.	Size	Length	Shape
n30(E)	20	#9	13'- 7 3/4"	
p30(E)	6	#10	18'- 4"	
p31(E)	12	#8	17'- 4"	
p32(E)	24	#8	14'- 4"	
p33(E)	4	#8	7'- 6"	
s30(E)	54	#5	9'- 1"	
s31(E)	26	#5	7'- 2"	
s32(E)	27	#5	10'- 7"	
s33(E)	54	#5	9'- 7"	
t30(E)	40	#9	7'- 6"	
u30(E)	10	#5	4'- 8"	
v30(E)	20	#9	25'- 11"	
v31(E)	24	#6	3'- 7"	
v32(E)	24	#6	2'- 10"	
w30(E)	32	#8	11'- 6"	
Structure Excavation		Cu. Yd.	39	
Concrete Structures		Cu. Yd.	23.6	
Reinforcement Bars, Epoxy Coated		Pound	8,544	
Furnished Metal Shell Piles 14" dia. x 0.250 in.		Foot	240	
Driving Piles		Foot	240	
Form Liner Textured Surface		Sq. Ft.	303	
Staining Concrete Structures		Sq. Ft.	306	

**NOTES:**  
See Sheet S-28 for Architectural Details.  
See Sheet S-29 for Metal Shell Pile Details.



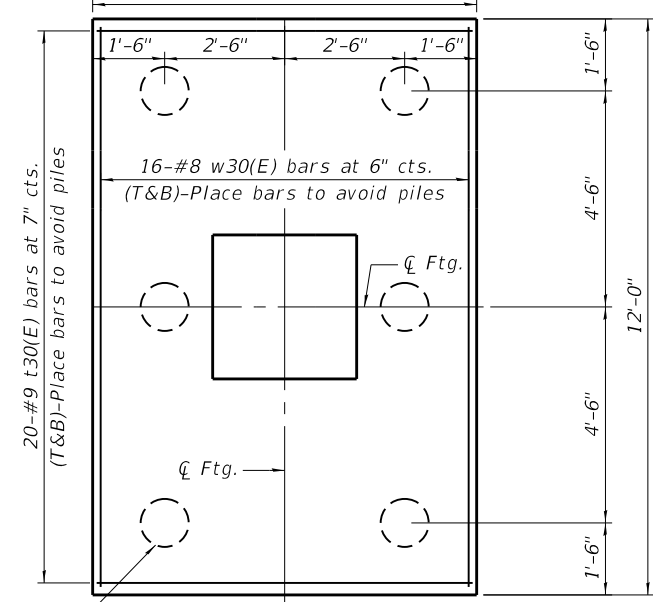
BAR p30(E) & p31(E)

BAR n30(E)

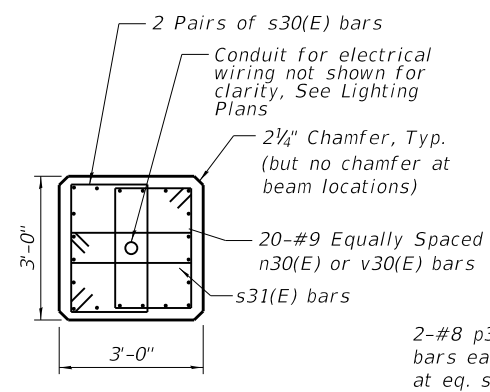


BARS s30(E), s31(E), s32(E) & s33(E)  
A & B DIMENSIONS

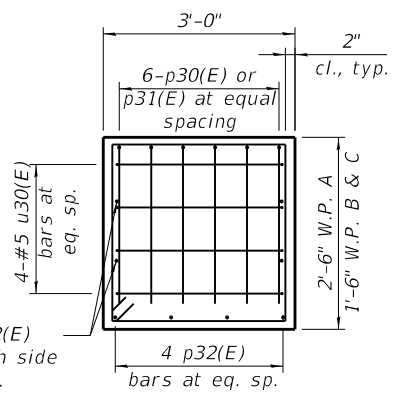
Bar	"A"	"B"
s30(E)	1'-7"	2'-6"
s31(E)	7 1/2"	2'-6"
s32(E)	2'-8"	2'-2"
s33(E)	2'-8"	1'-8"



FOOTING PLAN



SECTION A-A



SECTION B-B

Section Thru Beams Only (Deck Not Shown)  
W.P. letter corresponds to beam level / location

HRG PROJECT NO.: 80756  
HRG PROJ. CONTACT: 80756 Str. Pier 2 Details.dgn  
FILE NAME: IL\_paf.bw.p1rctg  
PLOT DRIVER: p1rctg.tbl  
PEN TABLE:

HRGreen.com  
Professional Design Firm  
#184-001322

**KMI**  
Kaltsoom Mehdi, Inc.  
ARCHITECTS & ENGINEERS  
223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
Tel: (312) 987-5900 Fax: (312) 987-5892

DESIGNED - JMW/OS  
CHECKED - AEU  
DRAWN - WJH  
DATE - 10/5/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PIER 2

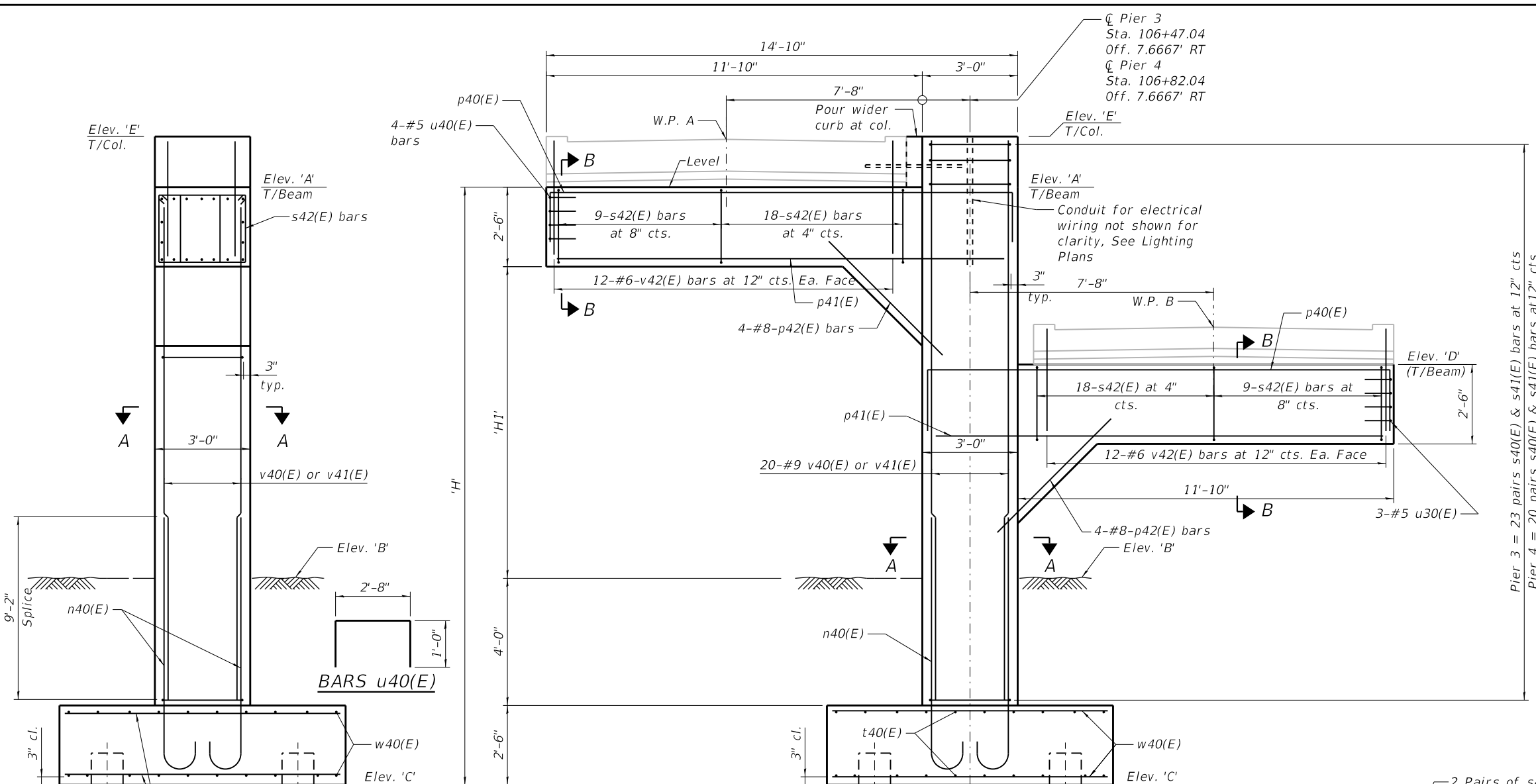
SHEET NO. S-19 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	41
CONTRACT NO. 61F89			ILLINOIS FED. AID PROJECT	

**BILL OF MATERIAL**

PIERS 3 & 4				
Bar	No.	Size	Length	Shape
n40(E)	48	#10	12'- 8"	
p40(E)	24	#10	18'- 4"	
p41(E)	32	#8	14'- 4"	
p42(E)	16	#8	7'- 6"	
s40(E)	92	#5	9'- 1"	
s41(E)	92	#5	7'- 2"	
s42(E)	108	#5	10'- 7"	
t40(E)	72	#8	8'- 6"	
v40(E)	24	#10	22'- 0"	
v41(E)	24	#10	19'- 1"	
v42(E)	96	#6	3'- 6"	
w40(E)	72	#8	8'- 6"	
Structure Excavation			Cu. Yd.	77
Concrete Structures			Cu. Yd.	43.40
Reinforcement Bars, Epoxy Coated			Pound	16,822
Furnished Metal Shell Piles 14" dia. x 0.250 in.			Foot	272
Driving Piles			Foot	272
Form Liner Textured Surface			Sq. Ft.	426
Staining Concrete Structures			Sq. Ft.	478

v40(E) bars = Pier 3  
v41(E) bars = Pier 4



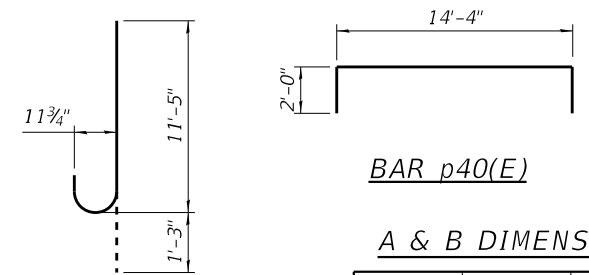
**WORK POINT TABLE**

PIER 3		
W.P.	Sta.	W.P. Elev.
A	106+47.03	764.41
B	108+06.08	756.20

PIER 4		
W.P.	Sta.	W.P. Elev.
A	106+82.03	762.07
B	107+71.07	757.96

**END VIEW**



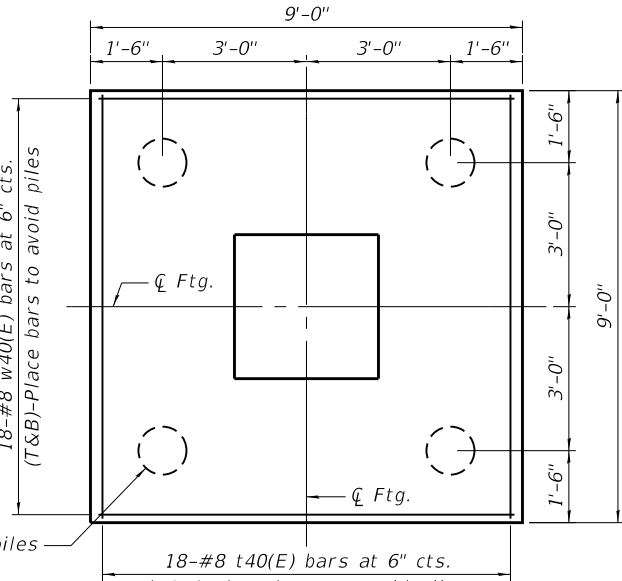
**A & B DIMENSIONS**

Bar	"A"	"B"
s40(E)	1'-7"	2'-6"
s41(E)	7 1/2"	2'-6"
s42(E)	2'-8"	2'-2"

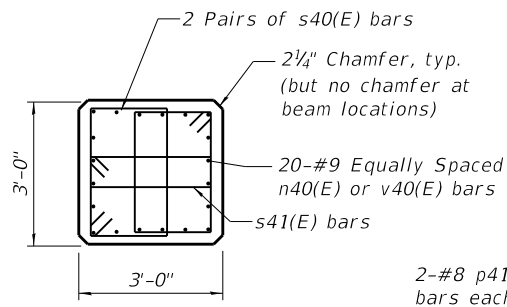
**PILE DATA**

Type & Size: Metal Shell - 14 in. dia. x 0.250 in. walls  
Nominal Required Bearing: 260 kips  
Factored Resistance Available: 143 kips  
Est. Length: 34 ft.  
No. Production Piles: 4  
No. Test Piles: 0

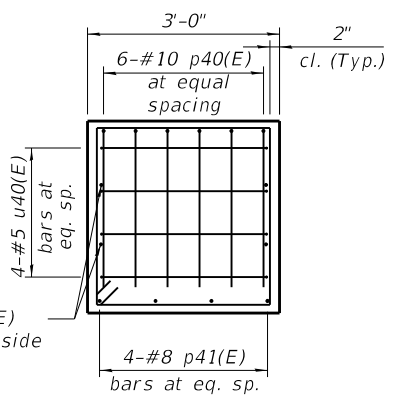
**ELEVATION**



**FOOTING PLAN**



**SECTION A-A**



**SECTION B-B**

**PIER TABLE**

Pier No.	Sta. A	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	H (FT)	H1 (FT)
3	106+47.04	762.90	746.26	739.76	754.69	764.50	24'-8"	15'-8"
4	106+82.04	760.56	746.80	740.30	756.45	762.16	21'-9"	12'-9"

**NOTES:**

See Sheet S-28 for Architectural Details.  
See Sheet S-29 for Metal Shell Pile Details.

HRC PROJECT NO.: 80756  
 HRC PROJ. CONTACT: 80756 Str. Piers 3 and 4 Details.dgn  
 FILE NAME: IL\_pdr\_bwp1rctg  
 PLOT DRIVER: pldtbltbl.tbl  
 PEN TABLE:

HRGreen.com  
Multi Professional Design Firm  
#184-001322

**KMI**  
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223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
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DESIGNED - JMW/OS	REVISED -
CHECKED - AEU	REVISED -
DRAWN - WJH	REVISED -
DATE - 10/5/2020	REVISED -

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**DEPARTMENT OF TRANSPORTATION**

**PIERS 3 & 4**

SHEET NO. S-20 OF S-35 SHEETS

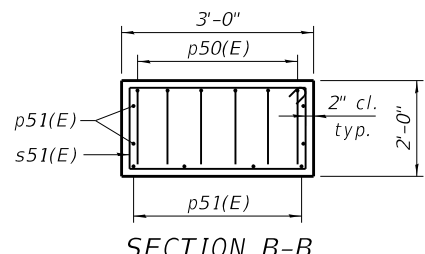
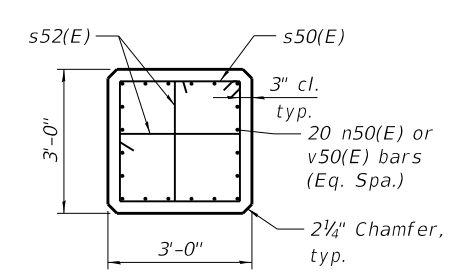
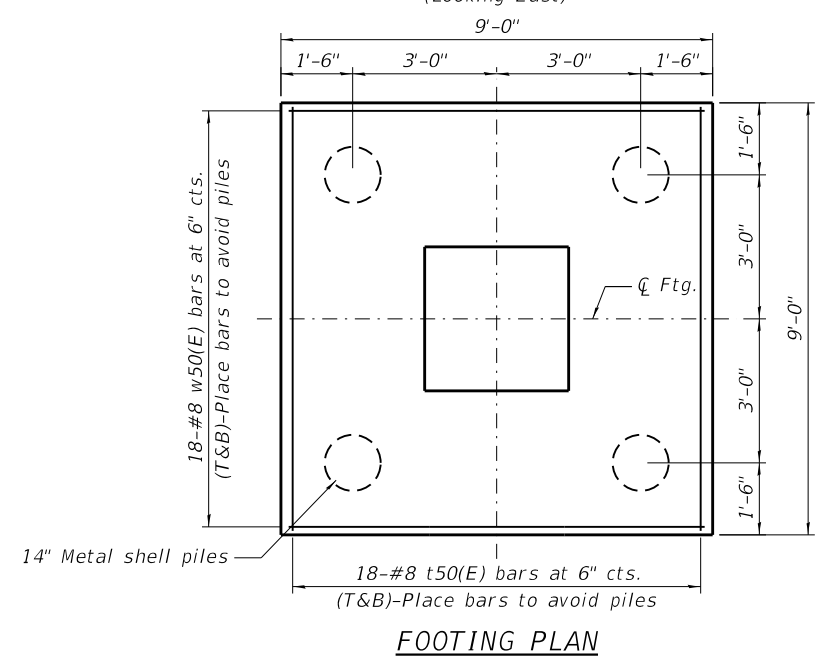
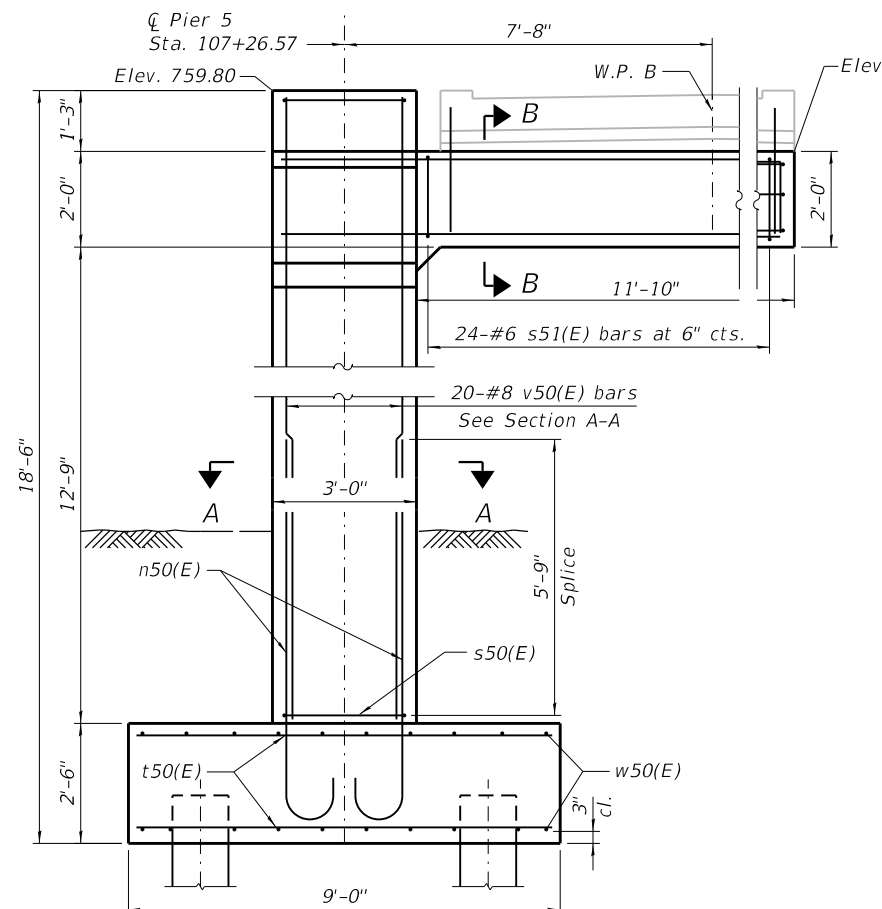
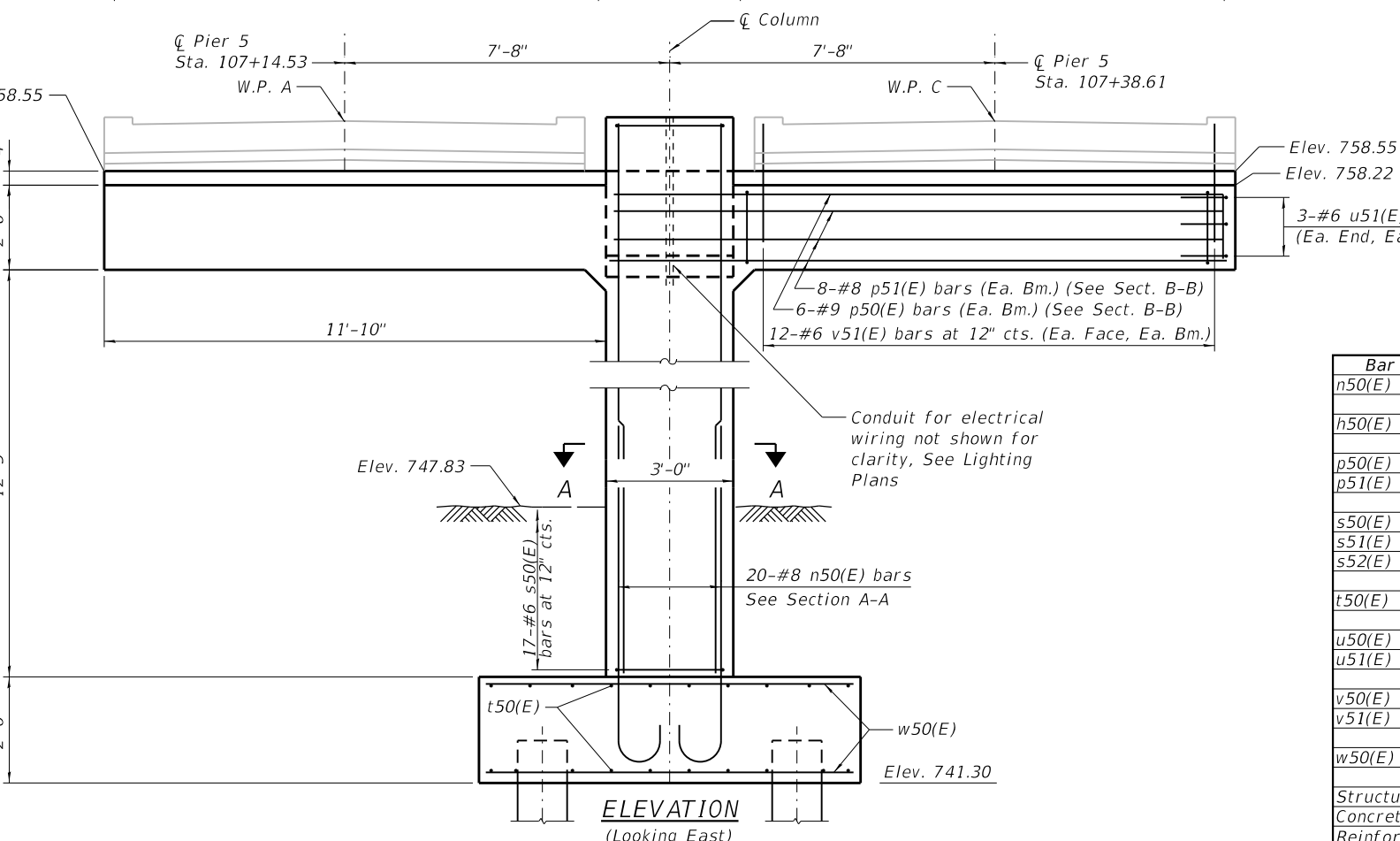
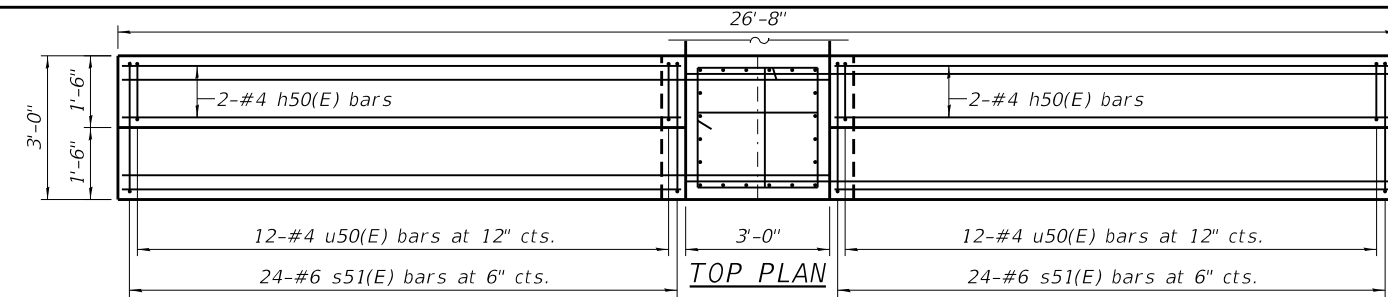
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	42
CONTRACT NO. 61F89			ILLINOIS FED. AID PROJECT	

**WORK POINT TABLE**

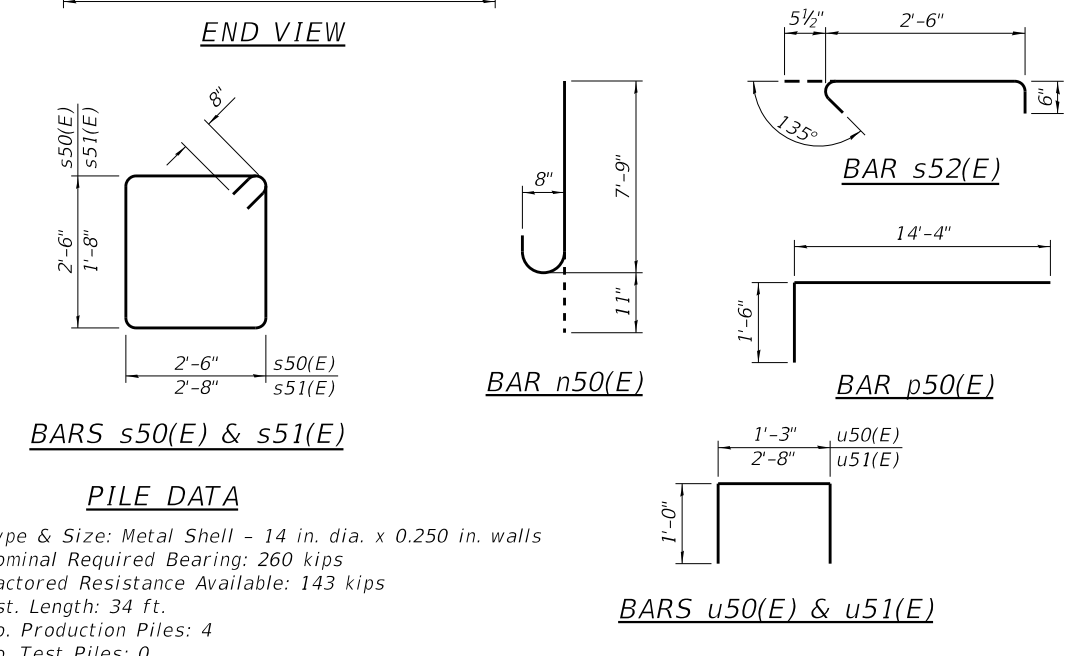
W.P.	Sta.	W.P. Elev.
A	107+14.53	759.73
B	107+26.57	759.73
C	107+38.61	759.73

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
n50(E)	20	#8	7'- 10"	
h50(E)	4	#4	11'- 6"	
p50(E)	18	#9	15'- 7"	
p51(E)	24	#8	14'- 4"	
s50(E)	17	#6	10'- 8"	
s51(E)	72	#6	9'- 4"	
s52(E)	34	#5	3'- 6"	
t50(E)	36	#8	8'- 8"	
u50(E)	24	#4	3'- 3"	
u51(E)	9	#6	4'- 8"	
v50(E)	16	#9	15'- 9"	
v51(E)	72	#6	2'- 6"	
w50(E)	36	#8	8'- 8"	
Structure Excavation			Cu. Yd.	42
Concrete Structures			Cu. Yd.	21.10
Reinforcement Bars, Epoxy Coated			Pound	6,640
Furnished Metal Shell Piles			Foot	136
14" dia. x 0.250 in.			Foot	136
Driving Piles			Sq. Ft.	168
Form Liner Textured Surface			Sq. Ft.	304



**NOTES:**  
 See Sheet S-28 for Architectural Details.  
 See Sheet S-29 for Metal Shell Pile Details.



HRG PROJECT NO.: 180756  
 HRG PROJ. CONTACT: 180756\_Str.Pier-5\_Details.dgn  
 FILE NAME: IL\_pdr\_bwp180756  
 PLOT DRIVER: pld-fabell.tbl  
 PEN TABLE:

**HRGreen.com**  
 Professional Design Firm  
 #184-001322

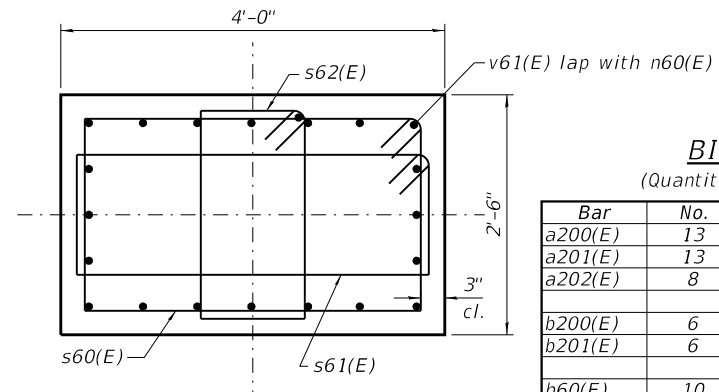
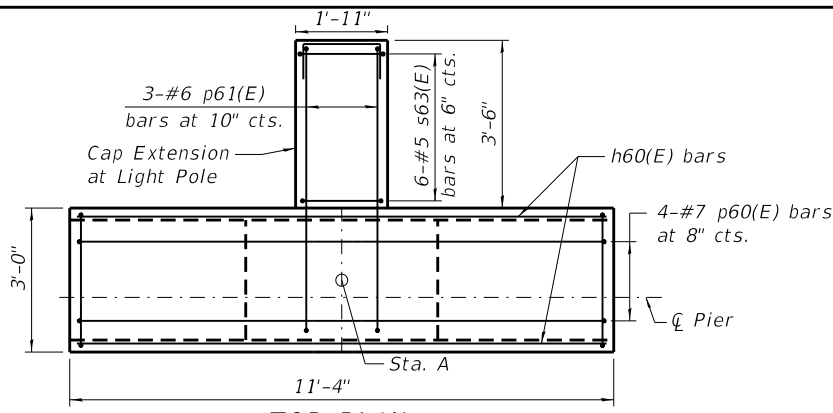
**KMI**  
 Katsouni Mehdi, Inc.  
 ARCHITECTS & ENGINEERS  
 223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
 Tel.: (312)987-5900 Fax: (312)987-5892

DESIGNED -	JMW/OS	REVISED -	
CHECKED -	AEU	REVISED -	
DRAWN -	WJH	REVISED -	
DATE -	10/5/2020	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PIER 5**  
 SHEET NO. S-21 OF S-35 SHEETS

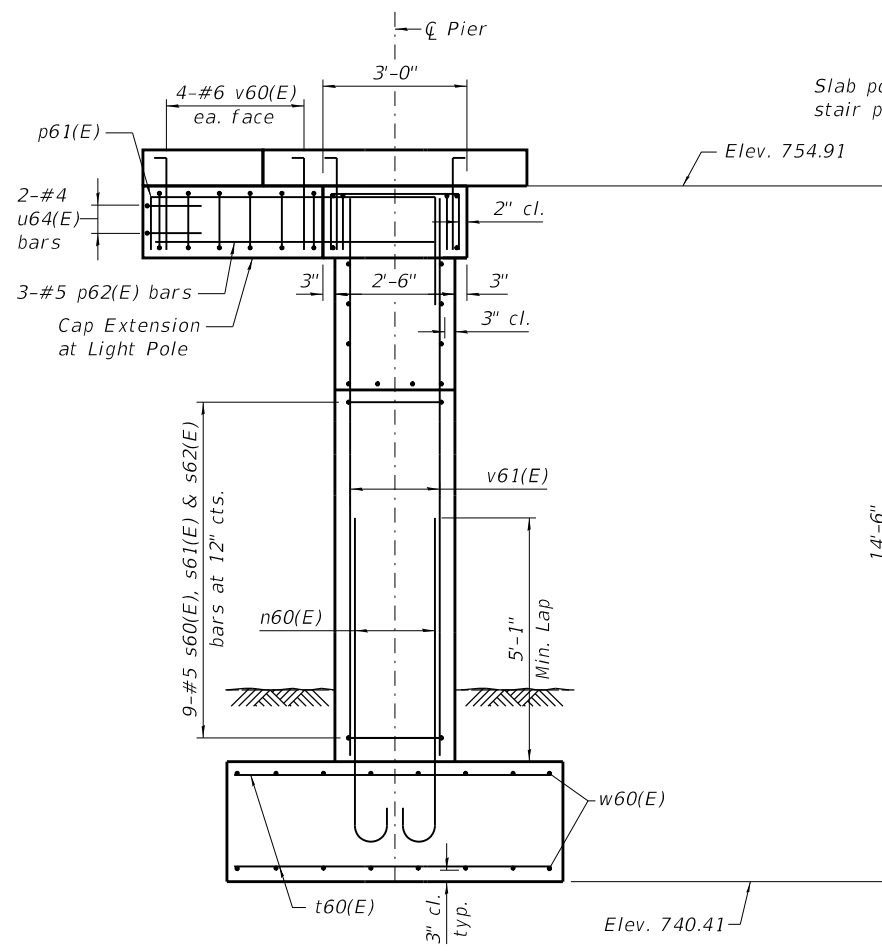
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	43
CONTRACT NO. 61F89			ILLINOIS FED. AID PROJECT	



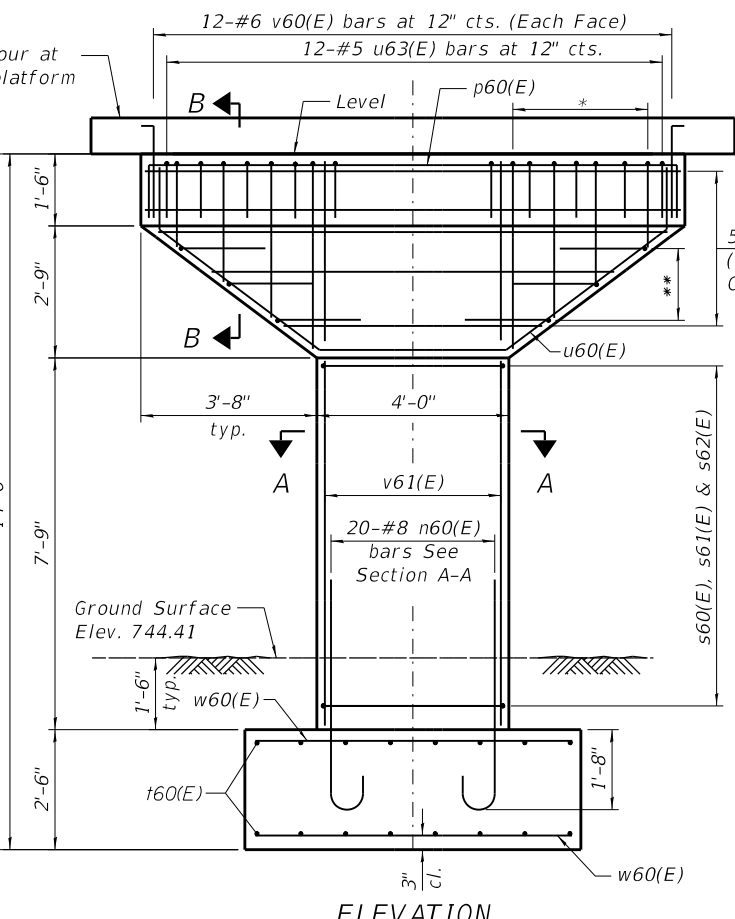
SECTION A-A

**BILL OF MATERIAL**  
(Quantities listed are for one Pier)

Bar	No.	Size	Length	Shape
a200(E)	13	#6	6'- 0"	
a201(E)	13	#6	5'- 2"	
a202(E)	8	#7	7'- 5"	
b200(E)	6	#6	13'- 11"	
b201(E)	6	#6	13'- 1"	
h60(E)	10	#5	11'- 0"	
n60(E)	20	#8	7'-8"	
p60(E)	4	#7	13'- 4"	
p61(E)	3	#7	9'- 1"	
p62(E)	3	#7	5'- 10"	
s60(E)	9	#5	11'- 11"	
s61(E)	9	#5	10'- 5"	
s62(E)	9	#5	7'- 1"	
s63(E)	6	#5	4'- 9"	
t60(E)	16	#8	6'- 6"	
u60(E)	4	#7	14'- 6"	
u61(E)	6	#5	5'- 2"	
u62(E)	6	#5	9'- 8"	
u63(E)	12	#5	5'- 0"	
u64(E)	2	#4	2'- 11"	
v60(E)	32	#6	2'- 8"	
v61(E)	20	#8	11'- 9"	
w60(E)	16	#8	6'- 6"	
Structure Excavation		Cu. Yd.	18.0	
Concrete Structures		Cu. Yd.	11.2	
Reinforcement Bars, Epoxy Coated		Pound	4,658	
Form Liner Textured Surface		Sq. Ft.	122	
Staining Concrete Structures		Sq. Ft.	63	



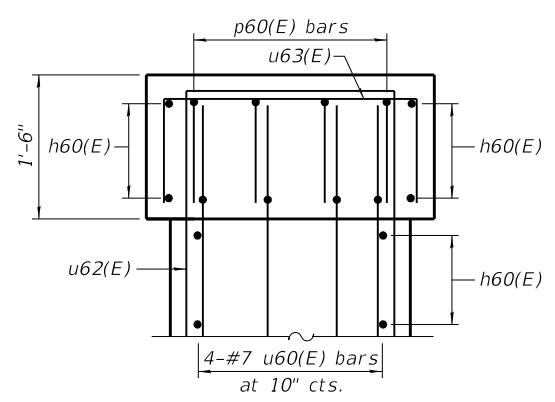
END VIEW



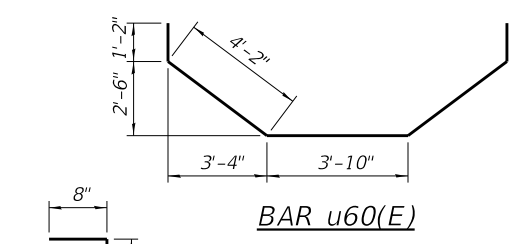
ELEVATION  
(Looking Upstation)

\* 3-#5 u62(E) bars Each End.  
Order full length, cut to fit in field.  
\*\* 3-#5 u61(E) bars Each End

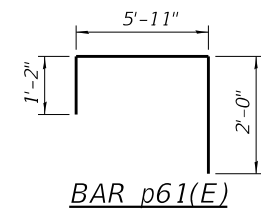
5-#5 h60(E) bars (Each Face)  
Cut to fit in field.



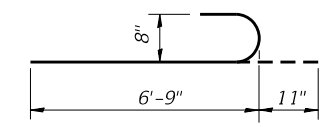
SECTION B-B



BAR u60(E)



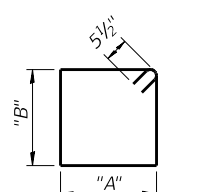
BAR p61(E)



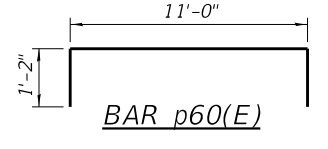
BAR n60(E)



BAR v60(E)



BARS s60(E), s61(E), s62(E) & s63(E)



BAR p60(E)

**A & B DIMENSIONS**

Bar	"A"	"B"
s60(E)	3'-6"	2'-0"
s61(E)	3'-6"	1'-3"
s62(E)	1'-1"	2'-0"
s63(E)	9"	1'-2"

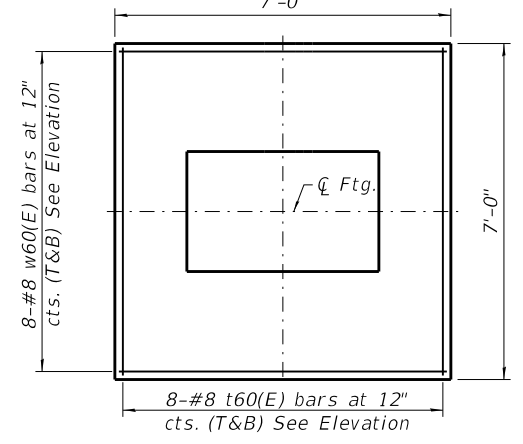
**NOTES:**

See Sheet S-28 for Architectural Details.  
Quantities above are for one pier.

**A & B DIMENSIONS**

Bar	"A"	"B"
u61(E)	1'-10"	1'-8"
u62(E)	2'-0"	3'-10"
u63(E)	2'-8"	1'-2"
u64(E)	7"	1'-2"

BARS u61(E), u62(E), u63(E) & u64(E)



FOOTING PLAN

HRG PROJECT NO.: 80756  
HRG PROJ. CONTACT: 80756.Str.Piers 6-7 Details.dgn  
FILE NAME: IL.prf.bw.pier6  
PLOT DRIVER: pld.tbl  
PEN TABLE: pld.tbl

**HRGreen.com**  
Professional Design Firm  
#184-001322

**KMI**  
Kaltsoom Mehdi, Inc.  
ARCHITECTS & ENGINEERS  
223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
Tel.: (312)987-5900 Fax.: (312)987-5892

DESIGNED	- JMW/OS	REVISED	-
CHECKED	- AEU	REVISED	-
DRAWN	- WJH	REVISED	-
DATE	- 10/5/2020	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

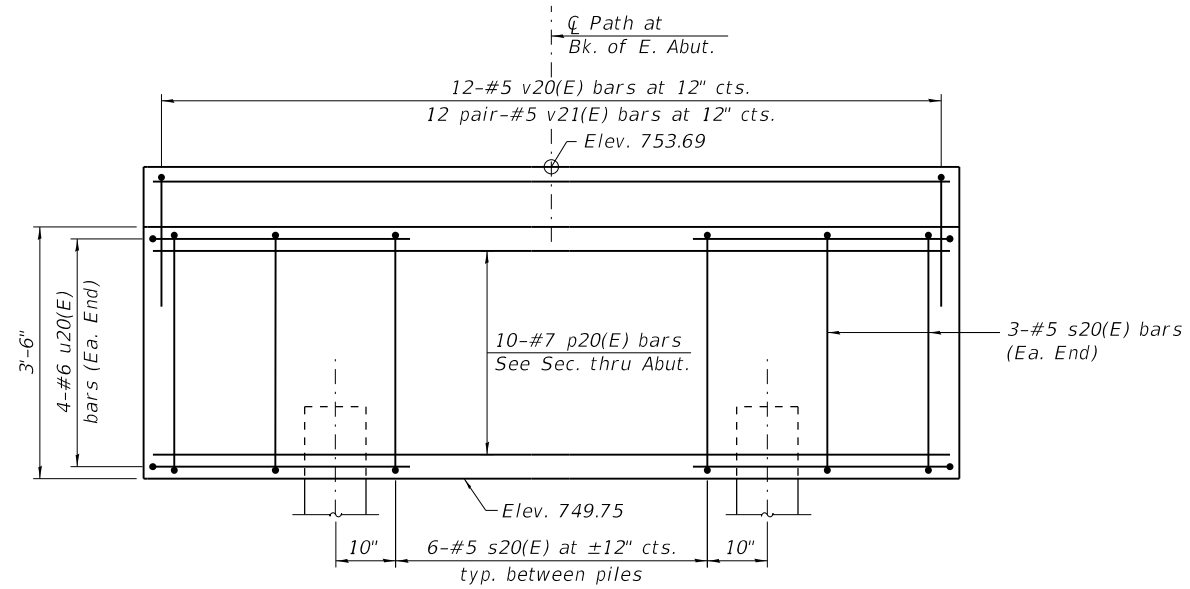
**PIERS 6 AND 7**

SHEET NO. S-22 OF S-35 SHEETS

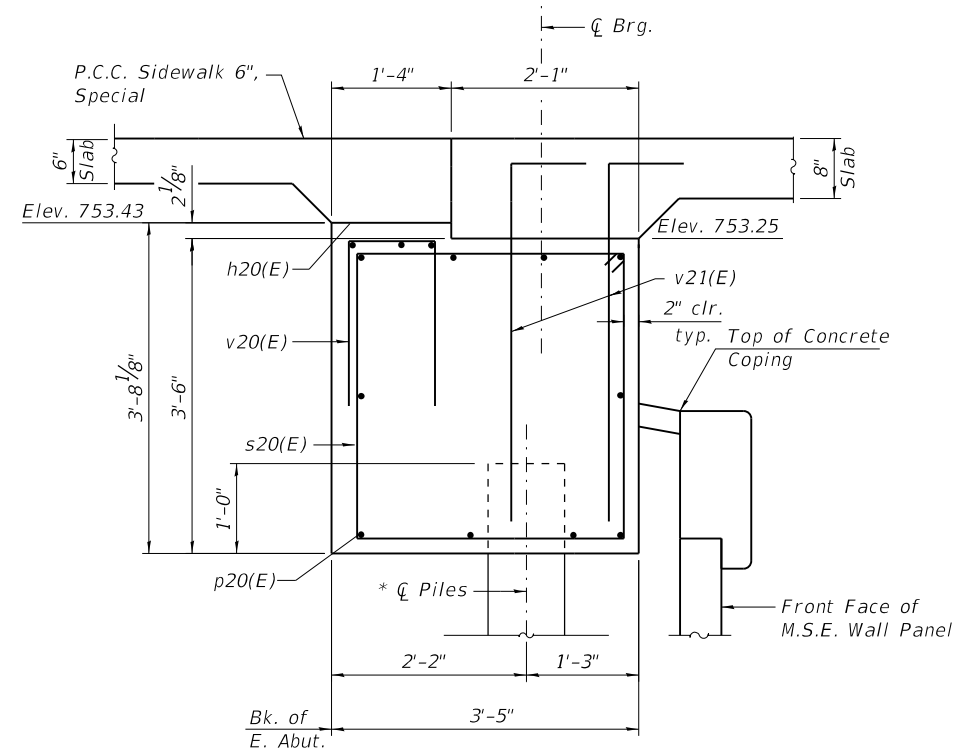
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	44
CONTRACT NO.			61F89	
ILLINOIS FED. AID PROJECT				

**PILE DATA**

Type & Size: Metal Shell-12 in. dia. x 0.250 in. walls  
 Nominal Required Bearing: 55 Kips  
 Factored Resistance Available: 30 Kips  
 Est. Length: 20 ft.  
 No. Production Piles: 2  
 No. Test Piles: 0

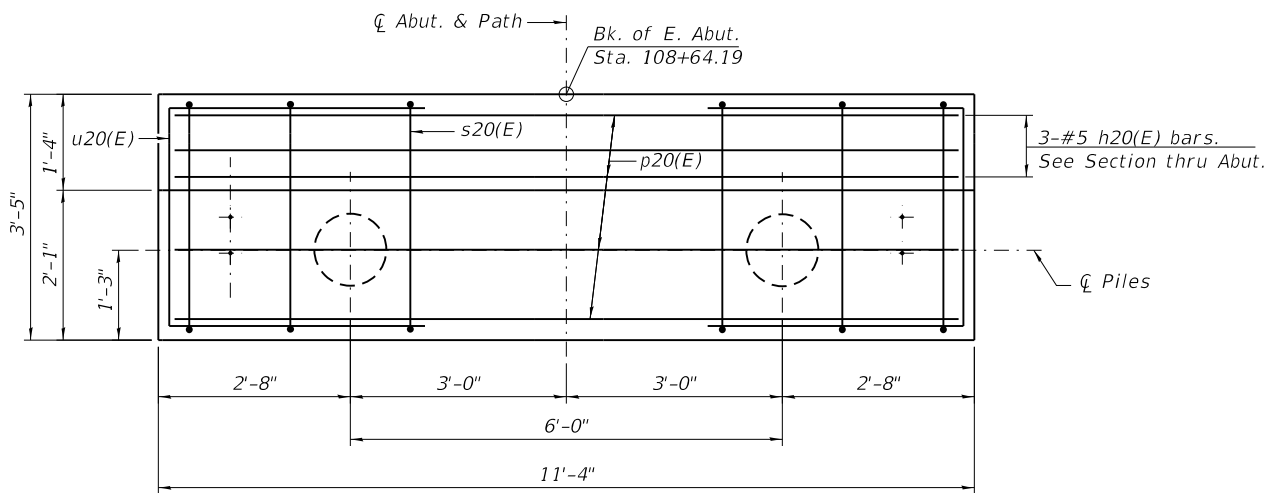


**ELEVATION**



**SEC. THRU ABUT.**

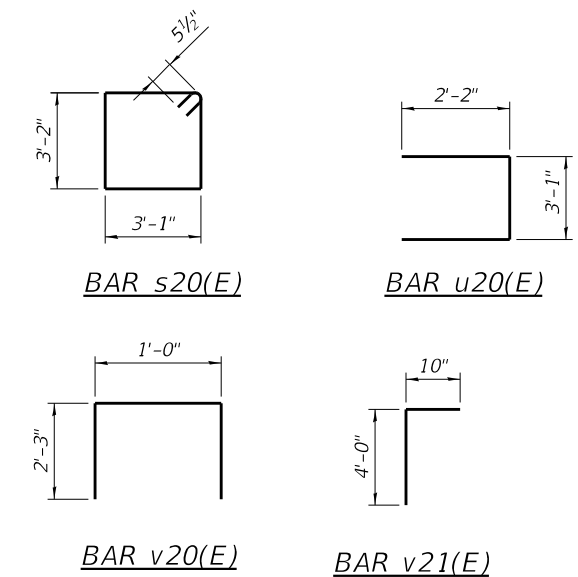
\* Piles shall be driven prior to placement of the reinforced select fill and coated with coal tar epoxy from the bottom of the select fill to 1" above the base of the abutment. The cost of the coal tar epoxy coating shall be included with the cost of "Furnishing Metal Shell Piles 12"x 0.250".



**PLAN**

**EAST ABUTMENT  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
h20(E)	3	#6	11'- 0"	—	
p20(E)	10	#7	11'- 0"	—	
s20(E)	12	#5	13'- 5"	⊏	
u20(E)	8	#6	7'- 5"	⌋	
v20(E)	12	#5	5'- 6"	⌋	
v21(E)	24	#5	4'- 10"	⌋	
Concrete Structures				Cu. Yd.	5.30
Reinforcement Bars, Epoxy Coated				Pound	722
Furnished Metal Shell Piles 12" dia. x 0.250 in.				Foot	40
Driving Piles				Foot	40
Concrete Sealer				Sq. Ft.	24
Staining Concrete Structures				Sq. Ft.	45



**NOTES:**

The M.S.E. wall supplier shall design the abutment soil reinforcement to resist a horizontal force of 0.34 kips/ft. of abutment.

See Sheet S-27 for M.S.E. Wall Details.

The metal shell piles shall be according to ASTM A 252 Grade 3.

HRG PROJECT NO.: 80756  
 HRG PROJ. CONTACT: 80756.Str.East.Abut.dgn  
 FILE NAME: IL.pdf.dwg  
 PLOT DRIVER: il.pdf.dwg  
 PEN TABLE: p10.tbl

HRGreen.com  
 Professional Design Firm  
 #184-001322

**KMI**  
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DESIGNED - JMW/OS  
 CHECKED - AEU  
 DRAWN - WJH  
 DATE - 10/5/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT**

SHEET NO. S-23 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	45
CONTRACT NO. 61F89				

ILLINOIS FED. AID PROJECT

Benchmark #1: Cut square in concrete base of light pole located approximately 840 feet west of centerline of the railroad tracks along the north of the Mundelein Metra Station parcel.  
Elevation = 742.60 (NAVD88)

Benchmark #2: Arrow bolt on fire hydrant located at the north corner of the intersection of McKinley Avenue and Anthony Avenue.  
Elevation = 751.06 (NAVD88)

**DESIGN SPECIFICATIONS**  
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

**LOADING H5 AND PEDESTRIAN**

90 psf Pedestrian Loading  
MSE wall shall be designed for a min. surcharge of 85 psf and an equivalent fluid pressure of 50 psf.

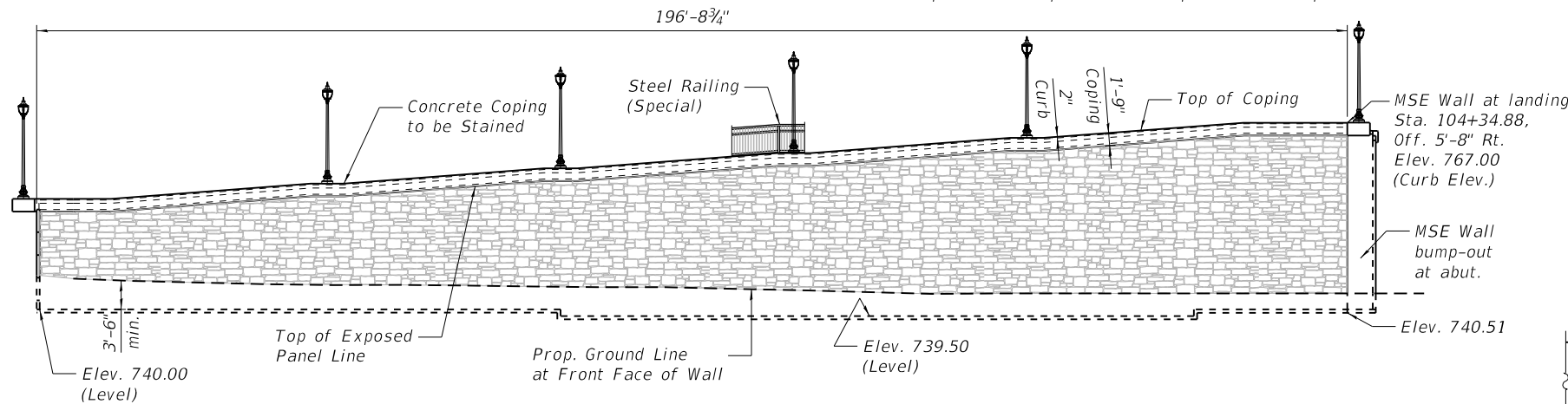
**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

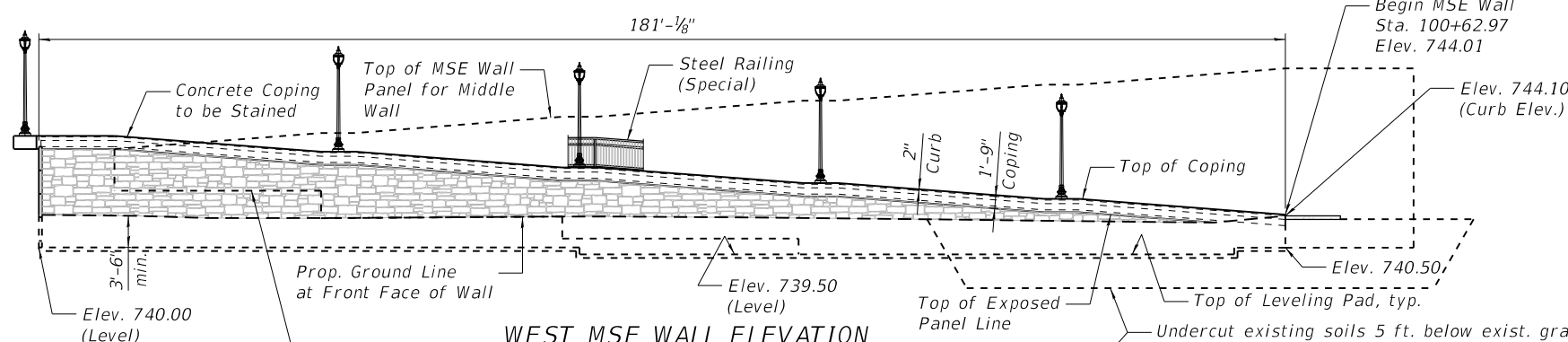
**PRECAST UNITS**

$f'_c = 4,500$  psi (Precast Panels)



**WEST MSE WALL ELEVATION**

(Higher wall elevation)  
(Looking at projected face of outside wall, middle wall not shown)

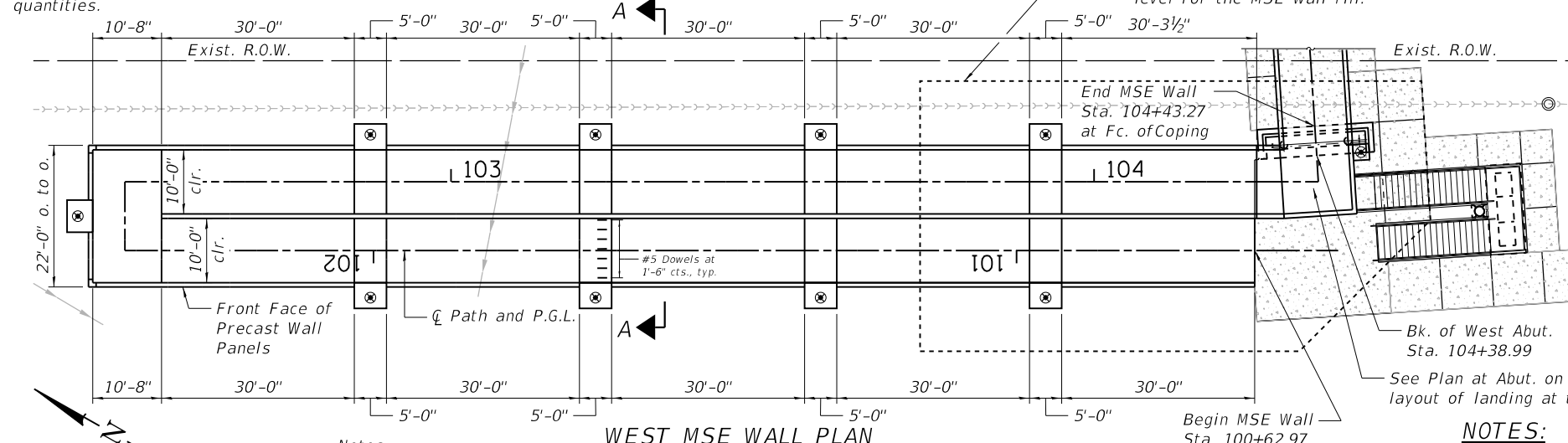


**WEST MSE WALL ELEVATION**

(Lower wall elevation)  
(Looking at Front Face of Wall)

Middle Wall, Top of Leveling Pad, varies per Wall Supplier's Design. Assume 3'-6" min. below PGL for quantities.

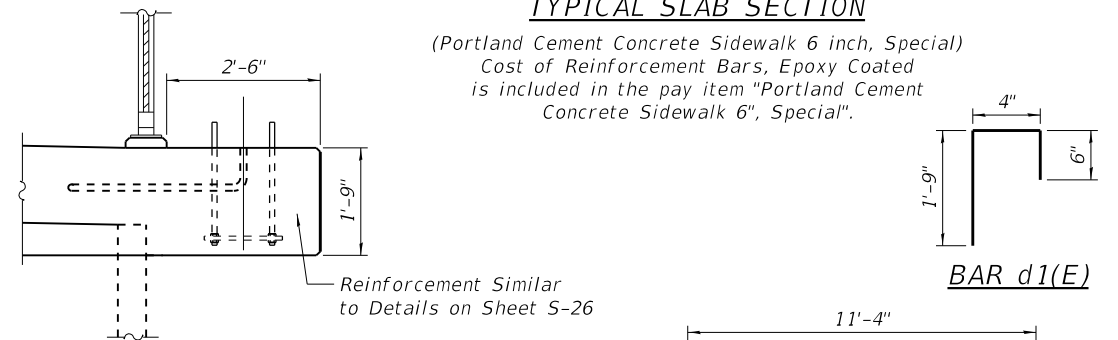
Undercut existing soils 5 ft. below exist. grade. for an area 10' wider than the footprint of the MSE walls from south end of MSE wall to Sta. 101+15.00 Backfill with Porous Granular Embankment up to the sub-grade level for the MSE wall fill.



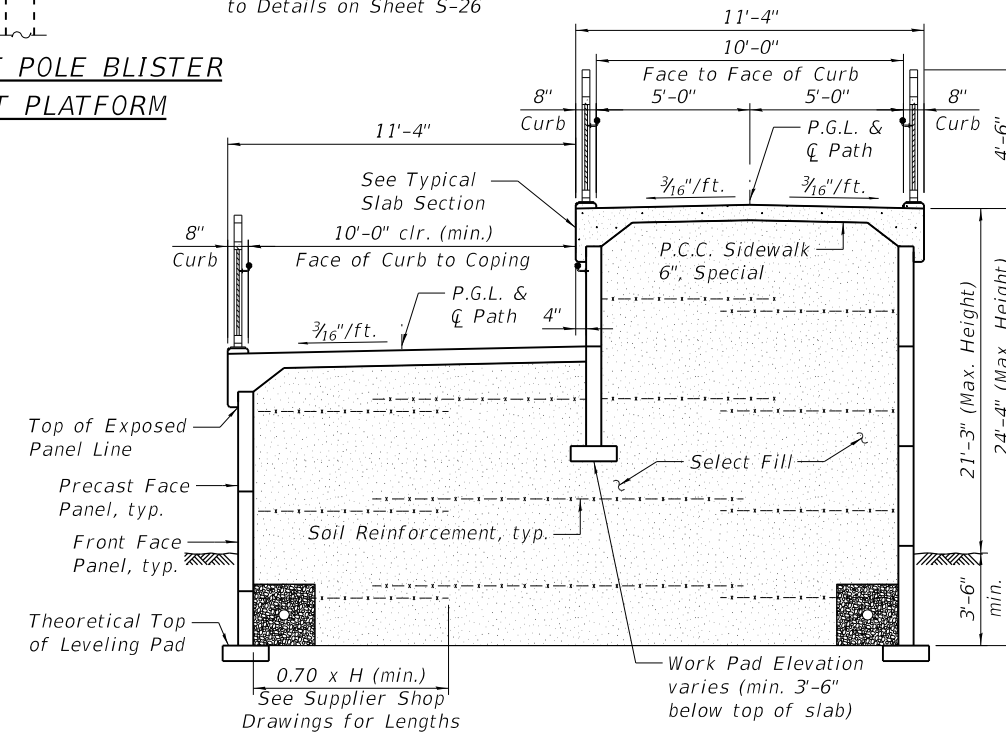
**WEST MSE WALL PLAN**

Notes:  
Wall offsets are measured from  $\phi$  path to front face of precast panels.

**LIGHT POLE BLISTER AT PLATFORM**



Reinforcement Similar to Details on Sheet S-26



**SECTION A-A**  
**BILL OF MATERIAL**

ITEM	UNIT	Total
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	10,796
Structure Excavation	Cu. Yd.	632
Portland Cement Concrete Sidewalk 6", Special	Sq. Ft.	4,316
Staining Concrete Structures	Sq. Yd.	1,349
Removal and Disposal of Unsuitable Material	Cu. Yd.	350
Porous Granular Embankment	Cu. Yd.	350

- NOTES:**
- See Sheet S-28 for Architectural Details.
  - See Sheet S-25 for details.

HRC PROJECT NO.: 80756  
 HRC PROJ. CONTACT: 80756 Str. MSE Wall Plan - West04.dgn  
 FILE NAME: IL.pcf, b.w, pcf, c.f.g  
 PLOT DRIVER: pldtbltbl.tbl  
 PEN TABLE:



**KMI**  
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223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
Tel.: (312)987-5900 Fax: (312)987-5892

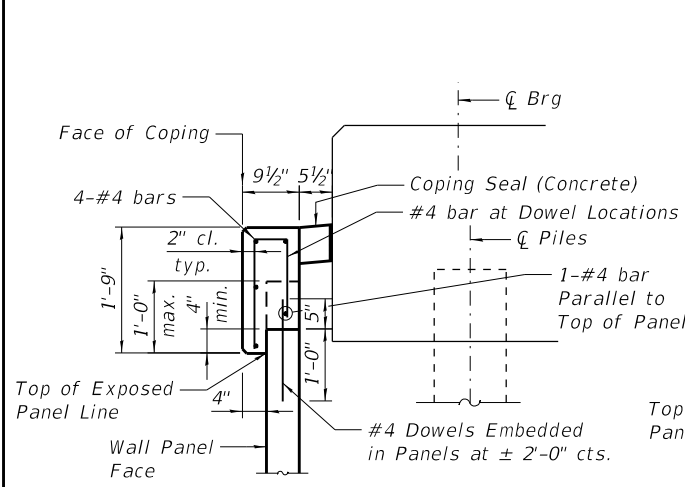
DESIGNED -	JMW/OS	REVISED -	
CHECKED -	AEU	REVISED -	
DRAWN -	WJH	REVISED -	
DATE -	10/5/2020	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WEST MSE WALL PLAN AND DETAILS**

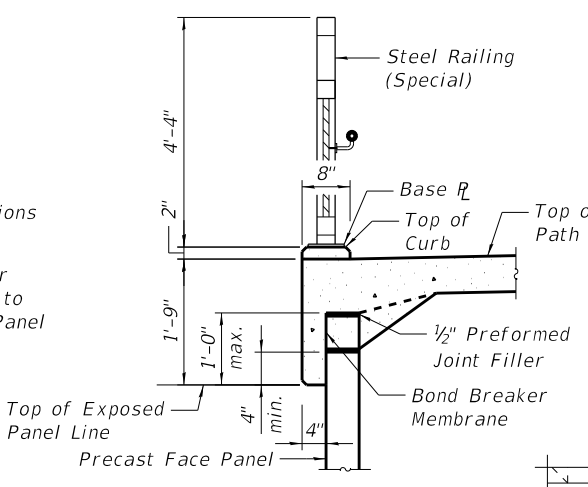
SHEET NO. S-24 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			61F89	
ILLINOIS FED. AID PROJECT				

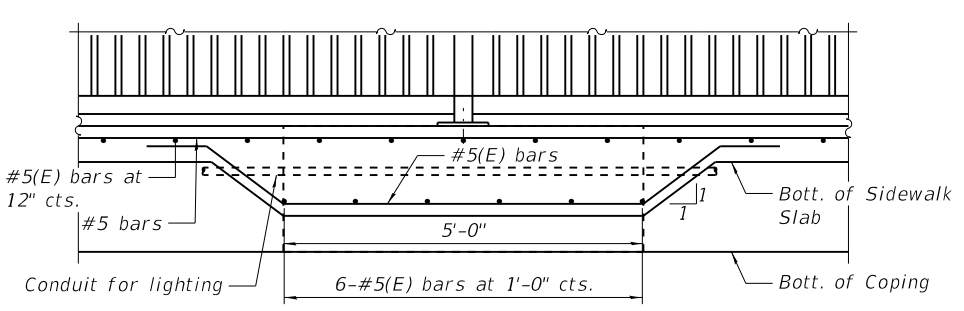


**SECTION B-B  
CAST IN PLACE COPING DETAIL**

All reinforcement shall be epoxy coated  
 Note: Cost of Coping, including epoxy coated reinforcement bars, P.J.F. and bond breaker is included in the pay item "Mechanically Stabilized Earth Retaining Wall".

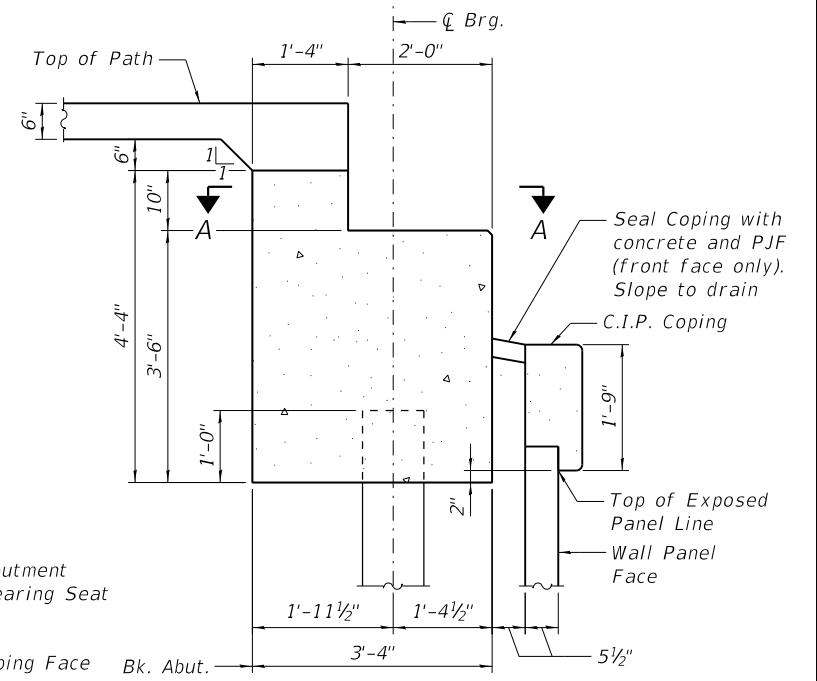


**TYPICAL COPING SECTION**



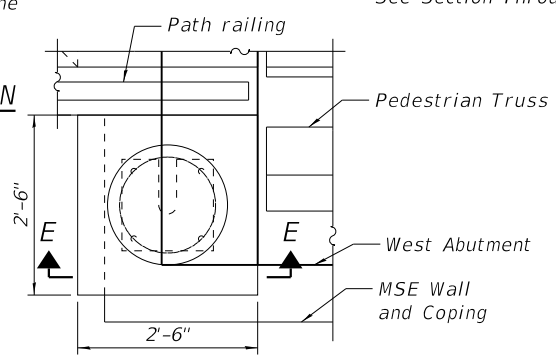
**SECTION D-D  
WALKWAY SLAB DETAIL**

See Section Through Blister this Sheet

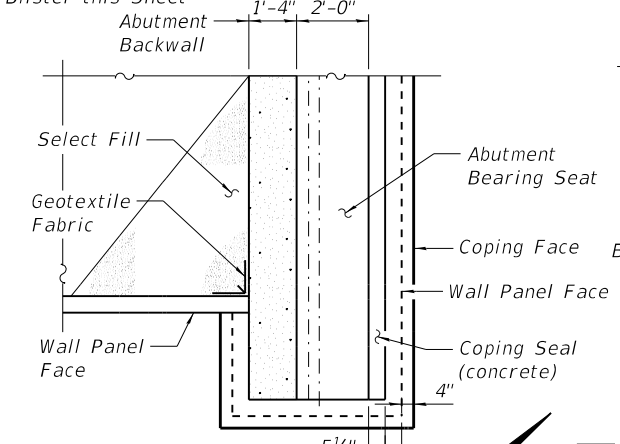


**SECTION THROUGH ABUTMENT**

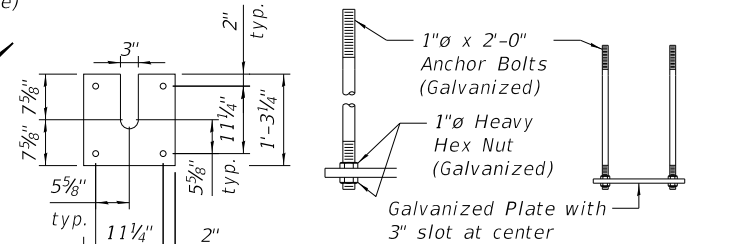
See CIP Coping Details, this Sheet



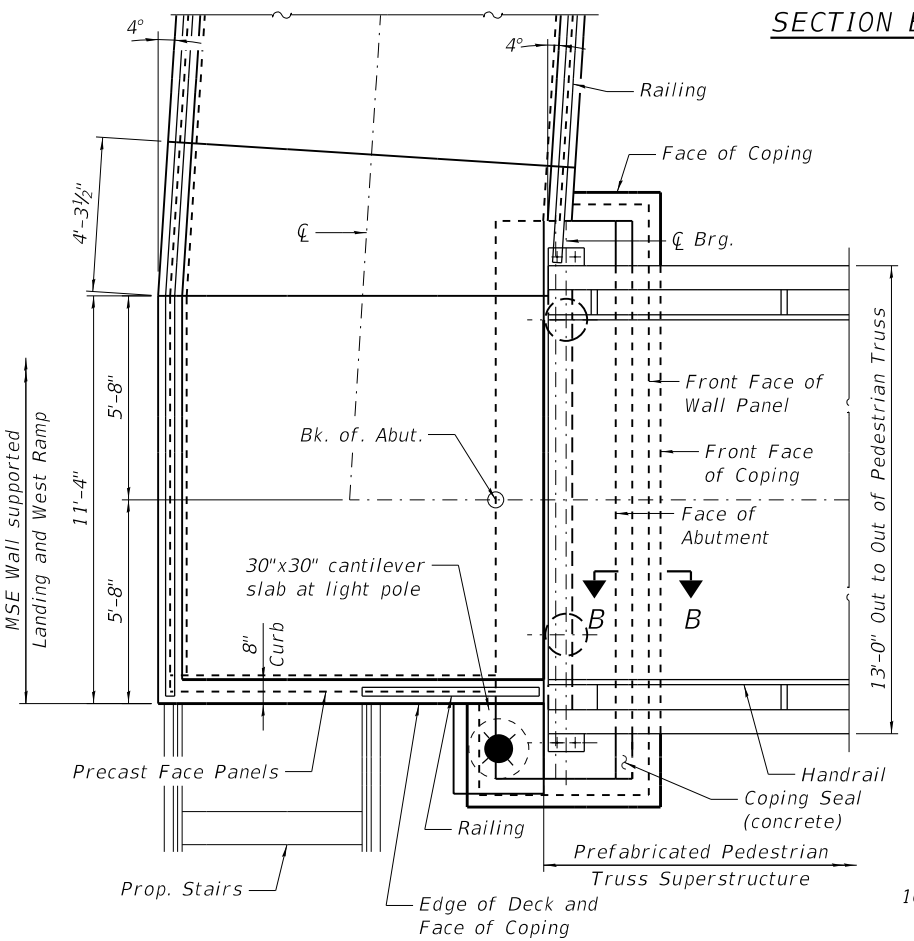
**WEST ABUTMENT LIGHT  
POLE BLISTER**



**SECTION A-A**

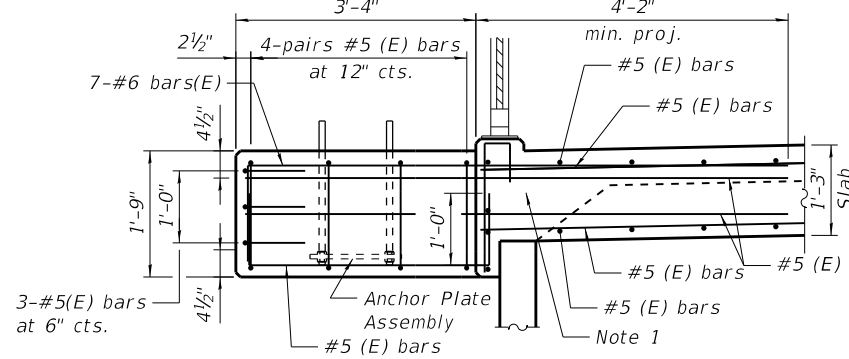


**ANCHOR PLATE DETAIL**



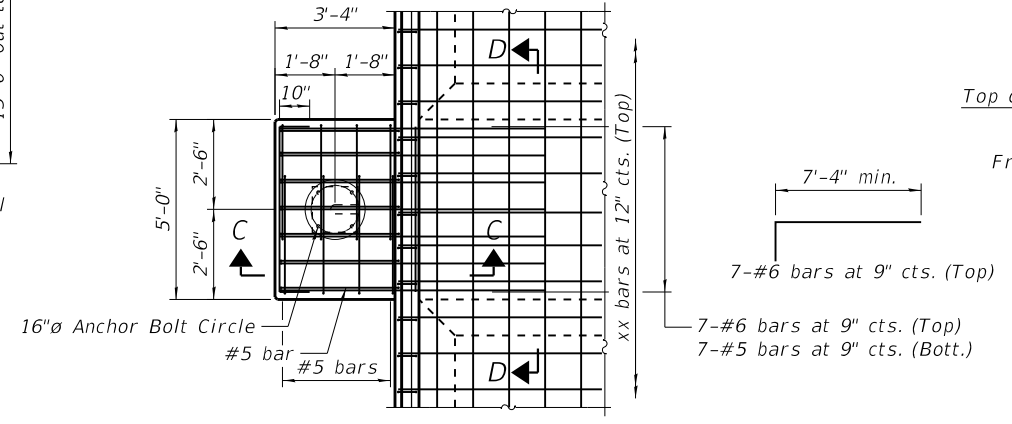
**PLAN AT ABUTMENT**

See Section Through Abutment this Sheet



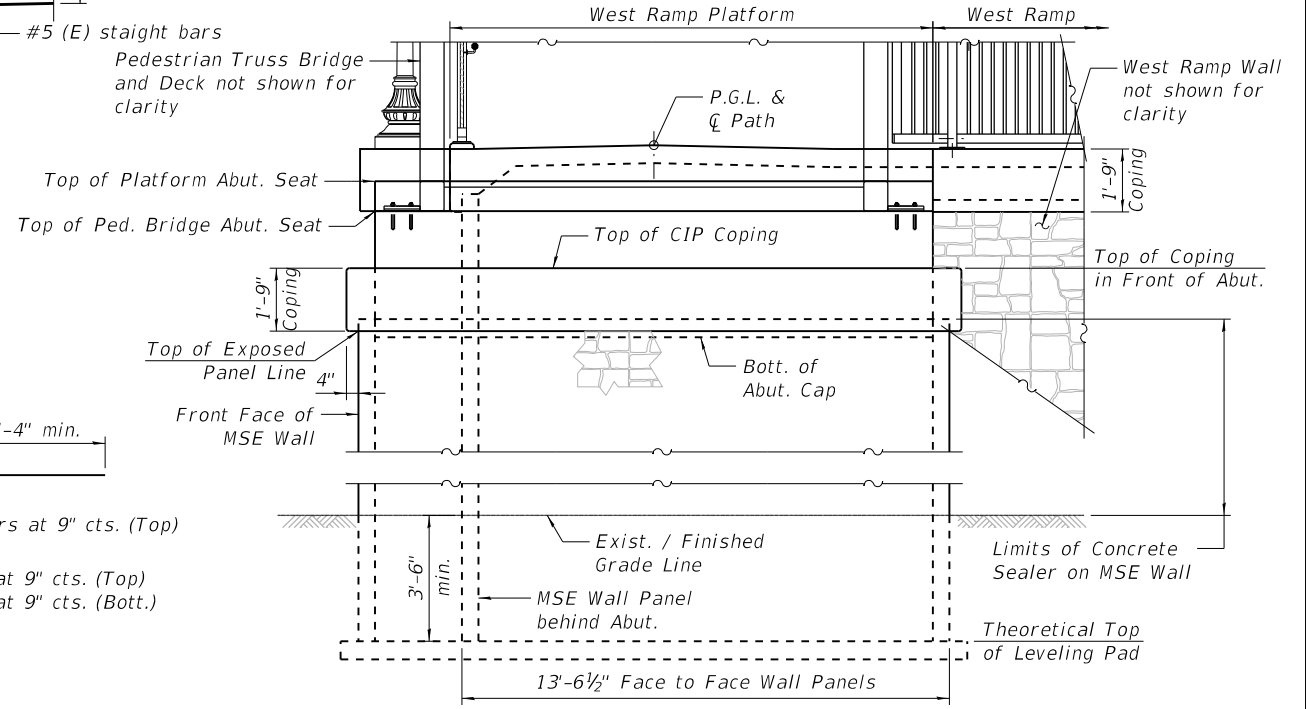
**SECTION C-C  
LIGHT POLE BLISTER DETAIL**

Note 1: Reaction at top of MSE Wall at light pole locations = 5.4 kips (unfactored)



**PLAN AT LIGHT POLE BLISTER  
ALONG WEST RAMP**

See Section through Blister this sheet



**ABUTMENT ELEVATION**

Showing MSE Wall Details

HRG PROJECT NO.: 80756  
 HRG PROJ. CONTACT: 80756 Str. MSE Wall Details.dwg  
 FILE NAME: 80756 Str. MSE Wall Details.dwg  
 PLOT DRIVER: il.pdf, bw, plotcfq  
 PEN TABLE: plc-table.tbl



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DRAWN - WJH	REVISED -
DATE - 10/5/2020	REVISED -

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**WEST MSE WALL DETAILS**

SHEET NO. S-25 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	47
CONTRACT NO. 61F89			ILLINOIS FED. AID PROJECT	

Benchmark #1: Cut square in concrete base of light pole located approximately 840 feet west of centerline of the railroad tracks along the north of the Mundelein Metra Station parcel.  
Elevation = 742.60 (NAVD88)

Benchmark #2: Arrow bolt on fire hydrant located at the north corner of the intersection of McKinley Avenue and Anthony Avenue.  
Elevation = 751.06 (NAVD88)

Existing Structure: None

Salvage: None

**DESIGN SPECIFICATIONS**

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

**LOADING H5 AND PEDESTRIAN**

90 psf Pedestrian Loading  
MSE wall shall be designed for a min. surcharge of 85 psf and an equivalent fluid pressure of 50 psf.

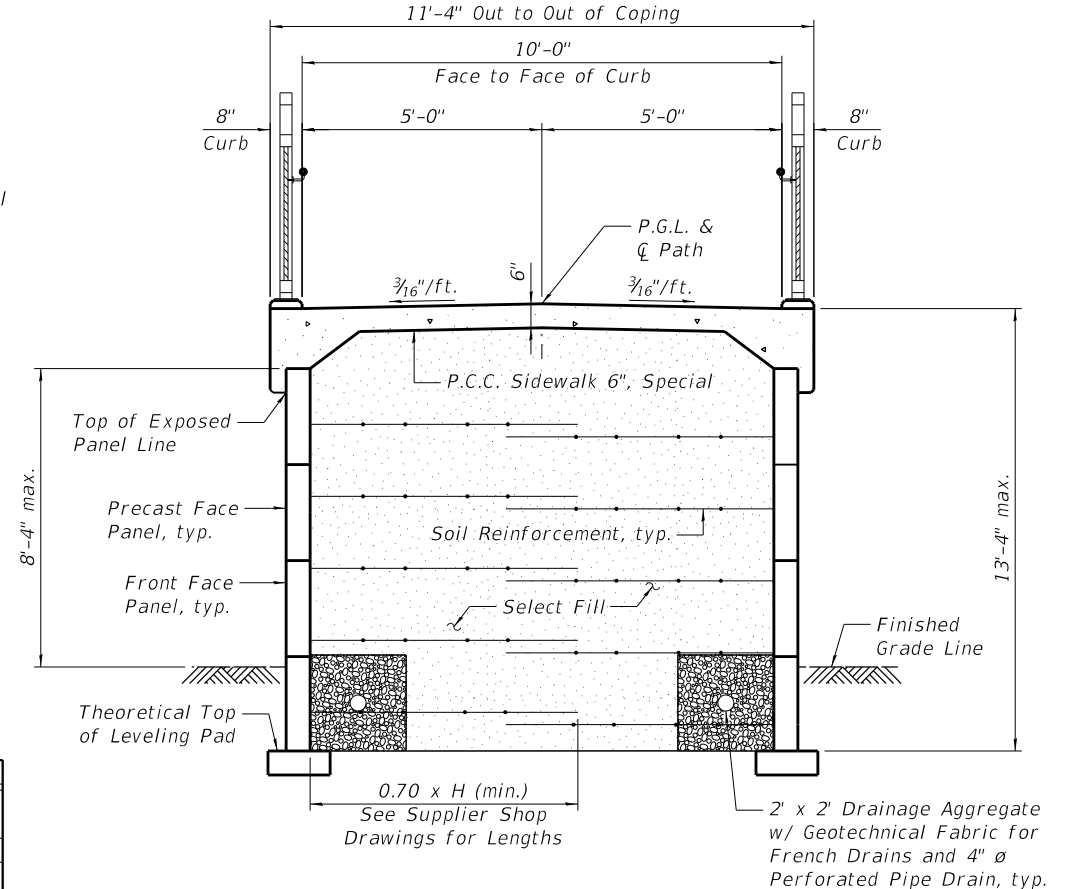
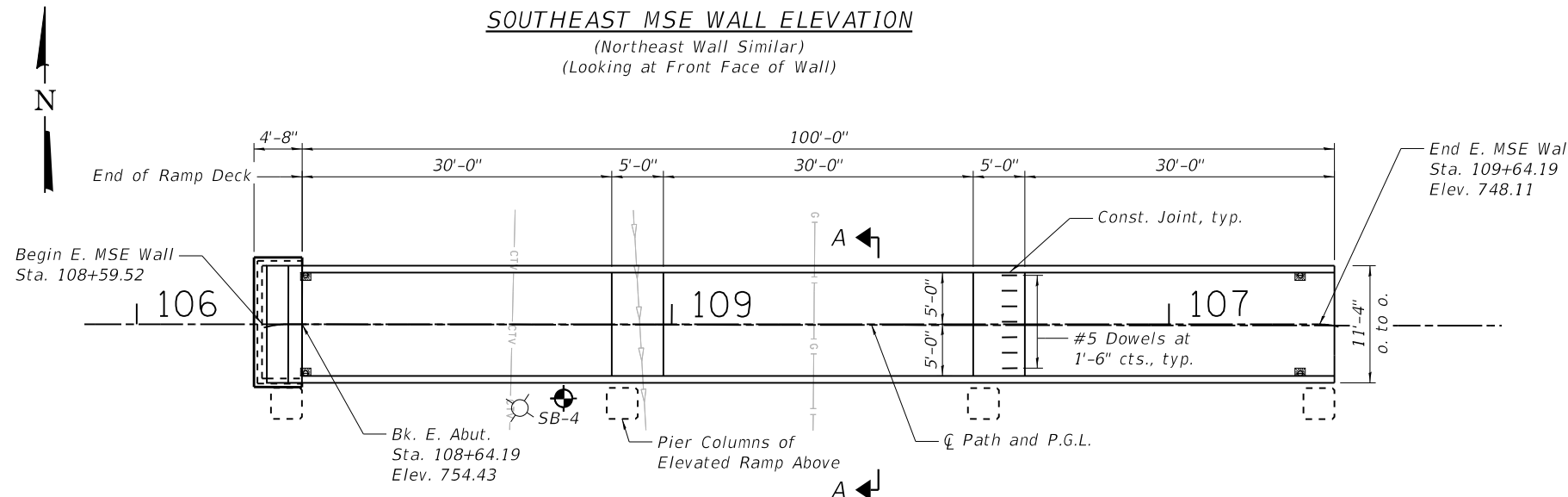
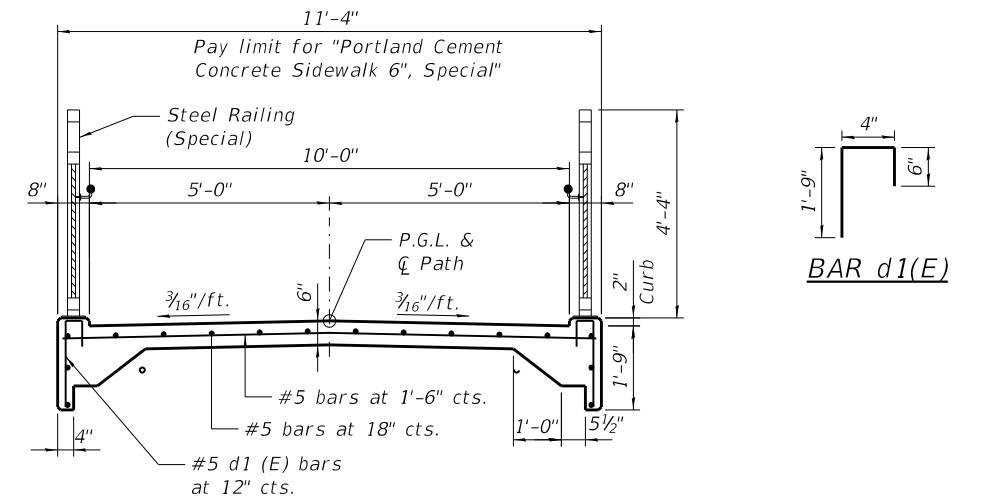
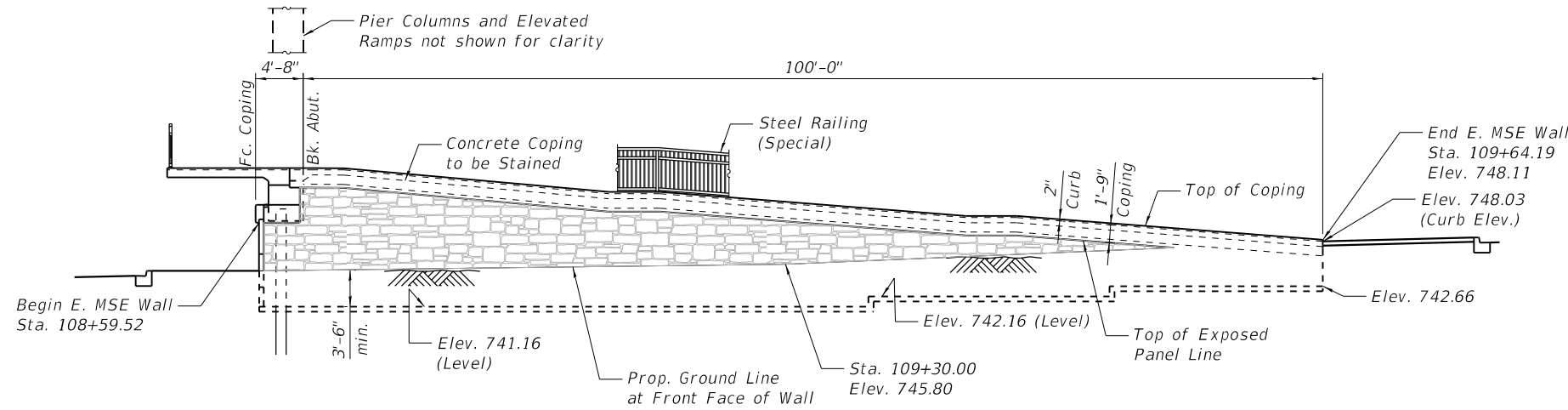
**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

**PRECAST UNITS**

$f'_c = 4,500$  psi (Precast Panels)



**BILL OF MATERIAL**

ITEM	UNIT	Total
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	1,746
Structure Excavation	Cu. Yd.	251
Portland Cement Concrete Sidewalk 6", Special	Sq. Ft.	1,146
Staining Concrete Structures	Sq. Yd.	428

- NOTES:**
1. See Sheet S-29 for Architectural Details.
  2. See Sheet S-27 for details.

HRC PROJECT NO.: 80756  
 HRC PROJ. CONTACT: 80756 Str. MSE Wall Plan - East04.dgn  
 FILE NAME: 80756 Str. MSE Wall Plan - East04.dgn  
 PLOT DRIVER: il\_paf.dwgplcfcg  
 PEN TABLE: plc-table.tbl

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DRAWN -	WJH	REVISED -	
DATE -	10/5/2020	REVISED -	

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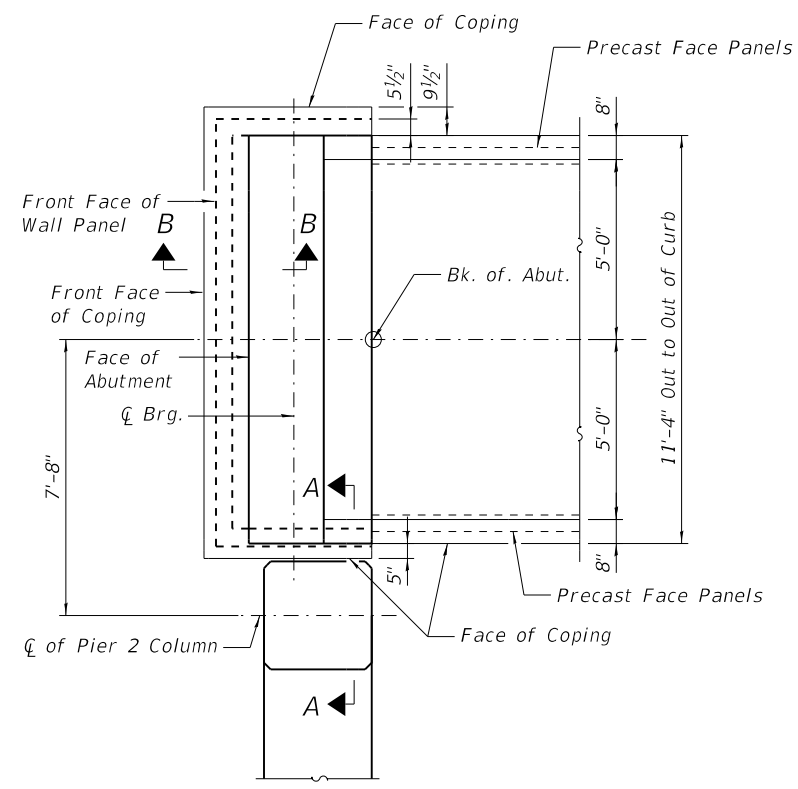
**EAST MSE WALL PLAN AND DETAILS**

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	48
CONTRACT NO.			61F89	

SHEET NO. S-26 OF S-35 SHEETS

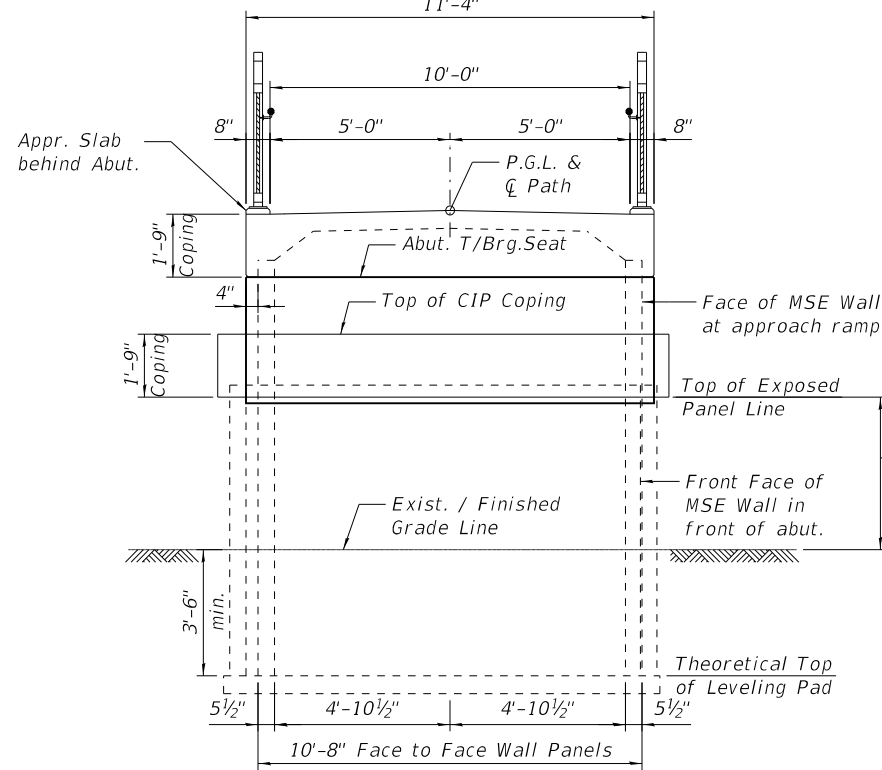
ILLINOIS FED. AID PROJECT





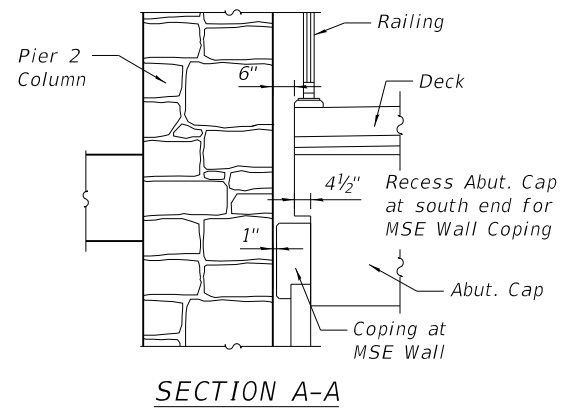
**PLAN AT EAST ABUTMENT**

See Section Through Abutments this Sheet  
11'-4"

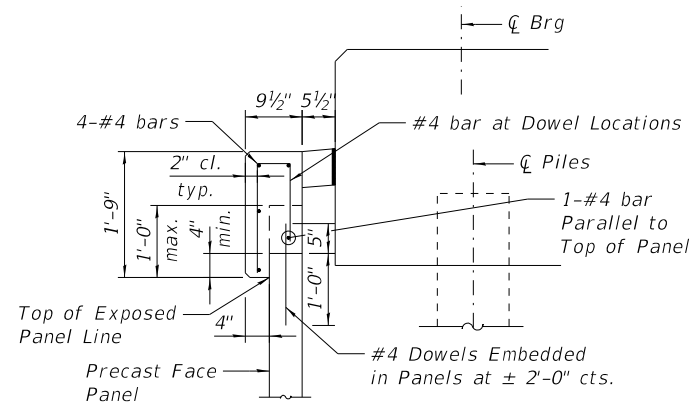


**EAST ABUTMENT ELEVATION**

Showing MSE Wall Details  
(Elevated Slab Cross-Section not shown for clarity)

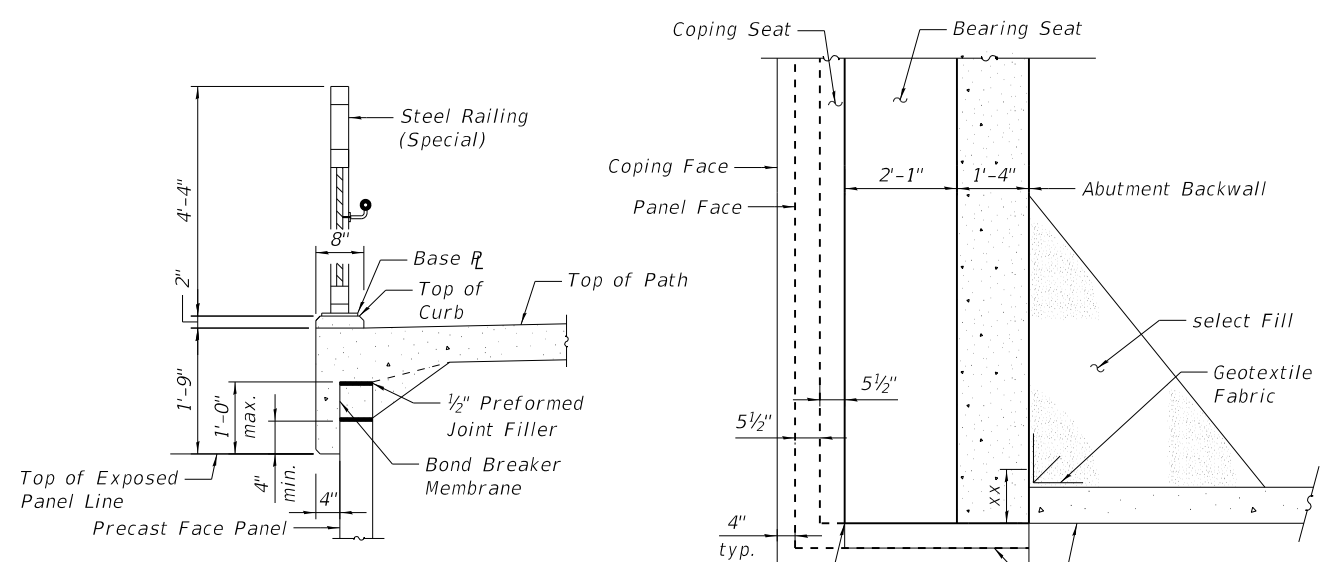


**SECTION A-A**



**SECTION B-B  
CAST IN PLACE COPING DETAIL**

All reinforcement shall be epoxy coated

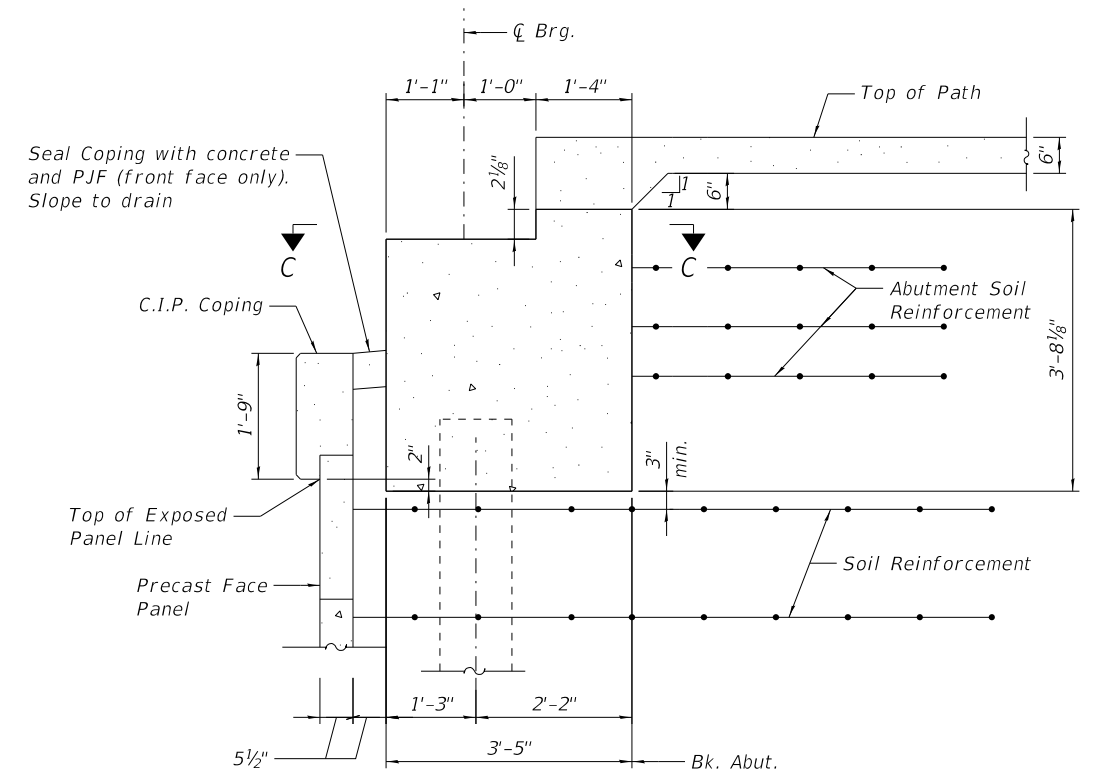


**TYPICAL COPING SECTION**

Coping under notch in abut. cap, this end only

**SECTION C-C**

Note: Cost of Coping, including epoxy coated reinforcement bars, PJF and bond breaker is included in the pay item "Mechanically Stabilized Earth Retaining Wall".



**SECTION THROUGH EAST ABUTMENTS**

See CIP Coping Details, this Sheet

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HRG PROJ. CONTACT: 80756.Str.MSE.WallDetails.dgn  
FILE NAME: IL.pdf.dwg  
PLOT DRIVER: il.pdf.dwg  
PEN TABLE: p10.tbl



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DRAWN -	WJH	REVISED -	
DATE -	10/5/2020	REVISED -	

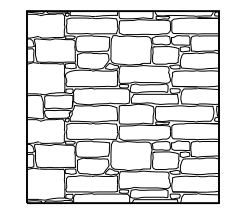
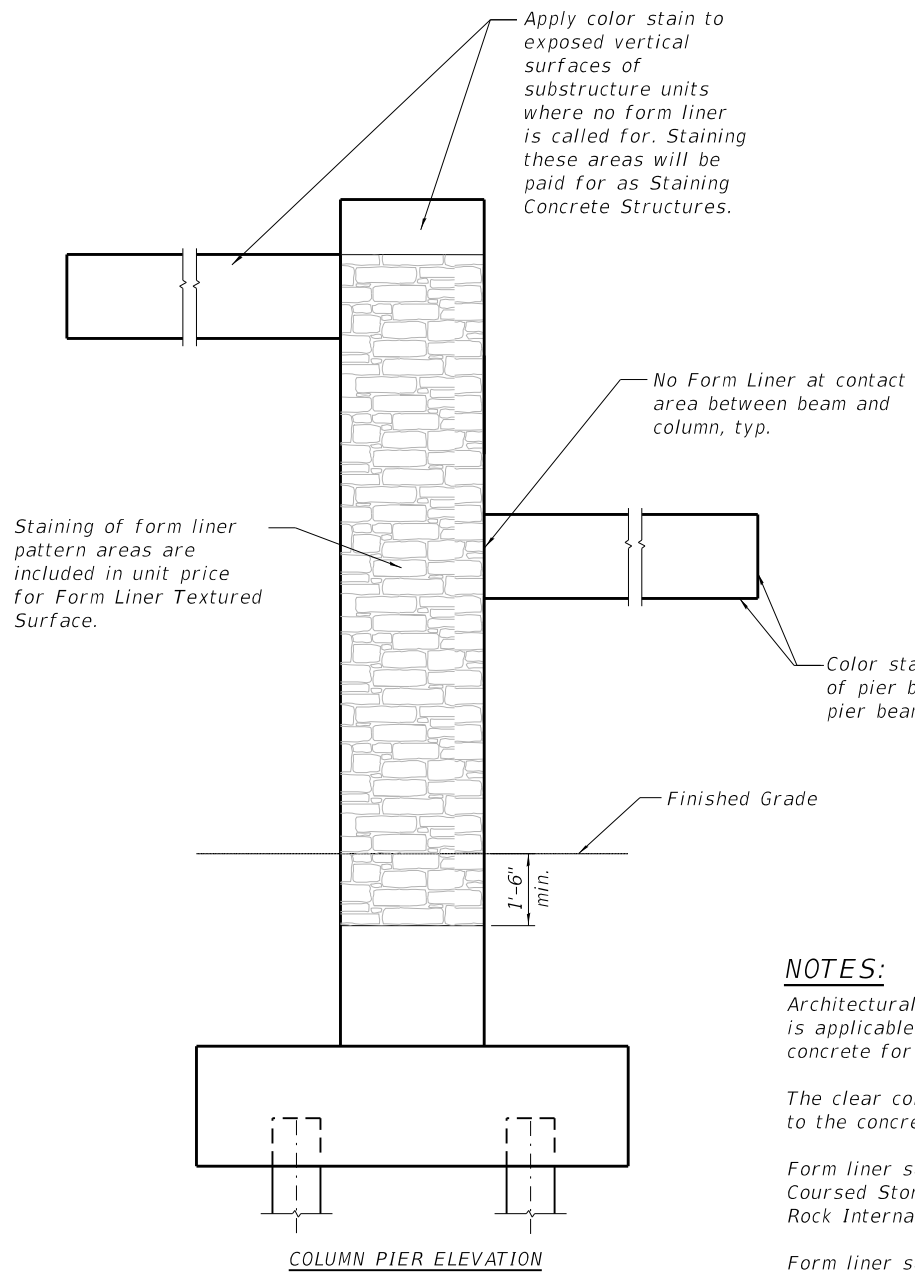
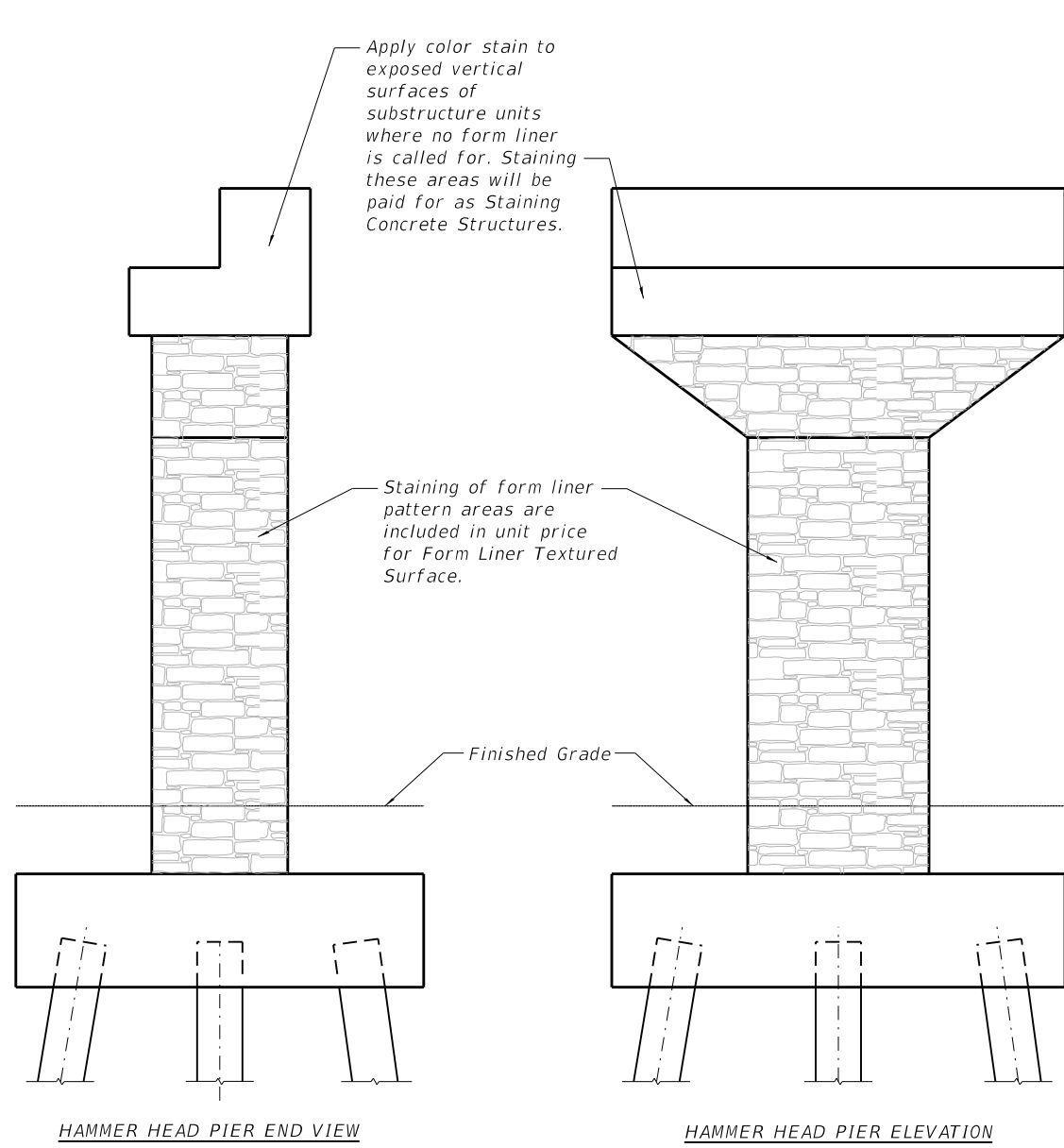
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST MSE WALL DETAILS**

SHEET NO. S-27 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	49
CONTRACT NO.			61F89	

ILLINOIS FED. AID PROJECT



**BEARPATH COURSED STONE**  
 (Custom Rock International  
 Bearpath Coursed Stone #12005)  
 Maximum Relief = 1"  
**FORMLINER DETAIL**

**NOTES:**

Architectural concrete surface treatment as shown is applicable to exterior surfaces of cast-in-place concrete for Piers and MSE walls respectively.

The clear concrete cover shown to the bars nearest to the concrete surface shall be maintained.

Form liner surface treatment shall be the Bearpath Coursed Stone Pattern #12005 manufactured by Custom Rock International or approved equal.

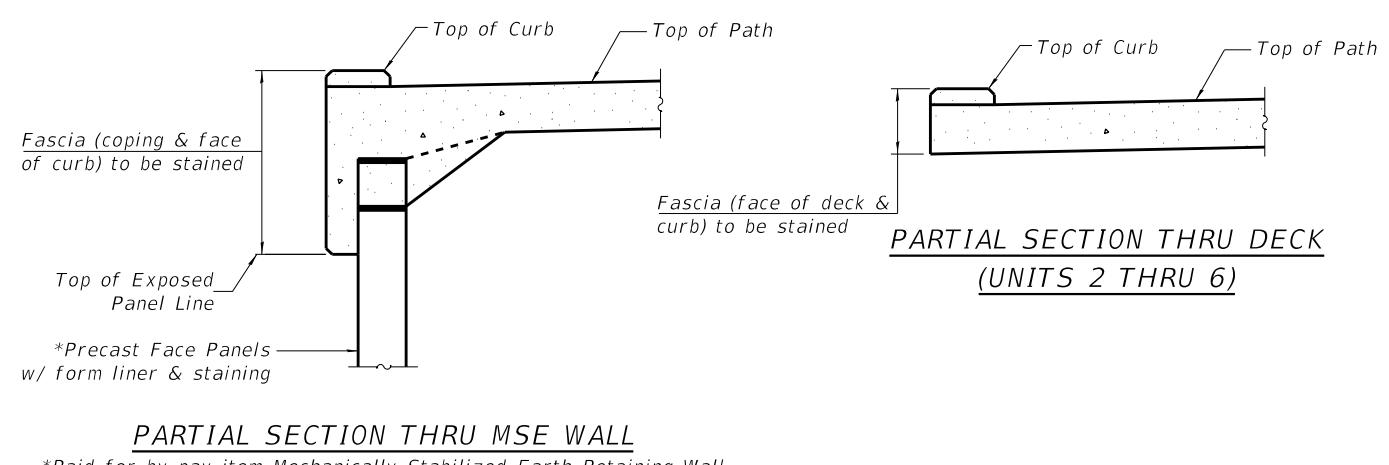
Form liner surface treatment shall be paid for in square feet as "Form Liner Textured Surface".

The color for Staining Concrete Structures is Base Color 33446 (Medium Tan) from the Federal Color Standard 595B. The owner reserves the right to select other form liner and stain colors. The Contractor shall submit test samples of form liner and stain colors for acceptance to the Owner before ordering any materials. Provide a concrete test panel 4'x4' with the form liner and stained selected by the Owner for final selection of form liner and stain colors.

See special provision for Form Liner Textured Surface.

See special provision for Staining Concrete Structures. Staining of areas without form liner pattern such as the exposed vertical faces of decks, copings, curb, column caps and pier caps and pier beams as indicated shall be paid for as Staining Concrete Structures.

**TYPICAL PIER TYPES**



**PARTIAL SECTION THRU MSE WALL**  
 \*Paid for by pay item Mechanically Stabilized Earth Retaining Wall

HRC PROJECT NO.: 80756  
 HRC PROJ CONTACT: 80756.Str.ArchitecturalDetails.dgn  
 FILE NAME: 80756.Str.ArchitecturalDetails.dgn  
 PLOT DRIVER: il\_paf.bwplfctg  
 PEN TABLE: plc-habel.tbl

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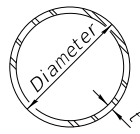
DESIGNED -	JMW/OS	REVISED -	
CHECKED -	AEU	REVISED -	
DRAWN -	WJH	REVISED -	
DATE -	10/5/2020	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ARCHITECTURAL DETAILS**

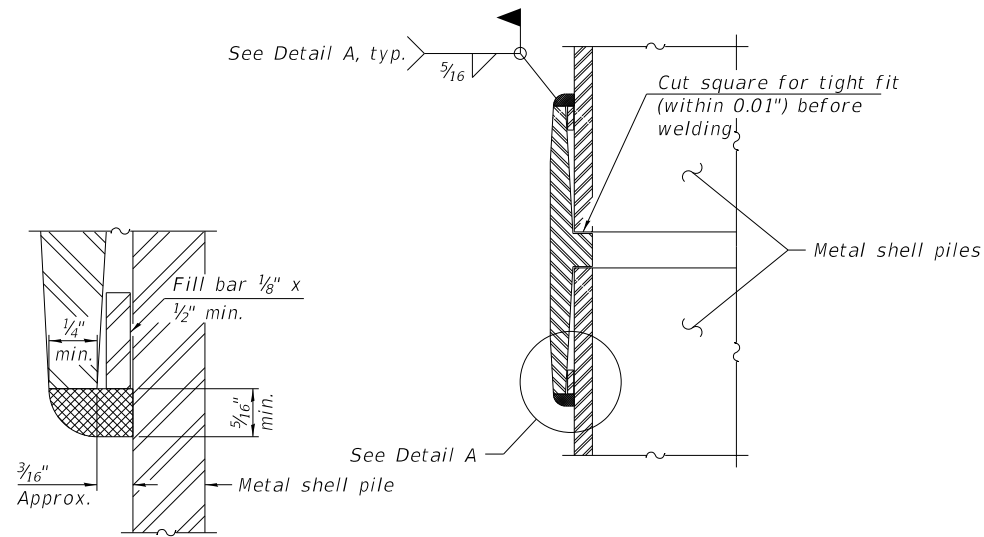
SHEET NO. S-28 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			61F89	
ILLINOIS FED. AID PROJECT				

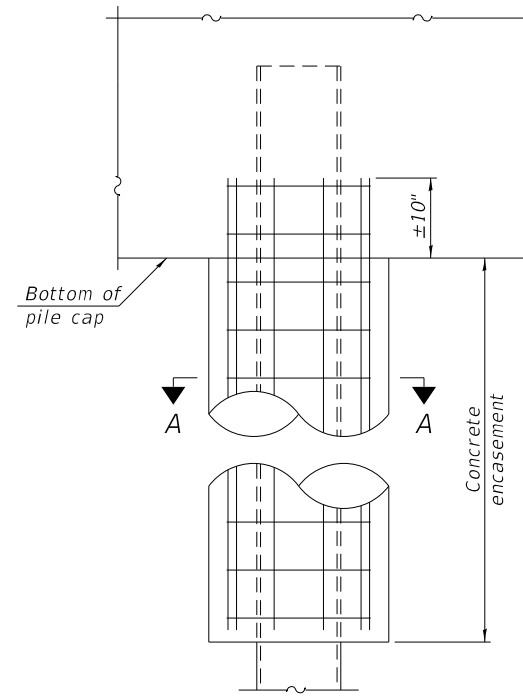


**METAL SHELL PILE TABLE**

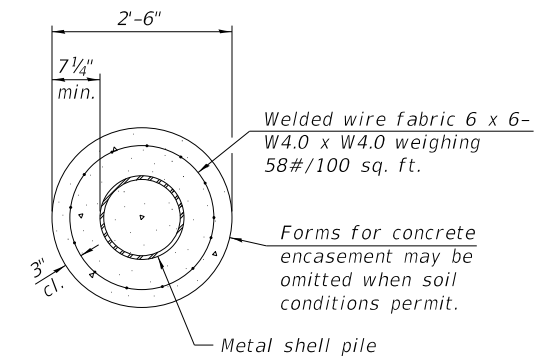
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



**DETAIL A**

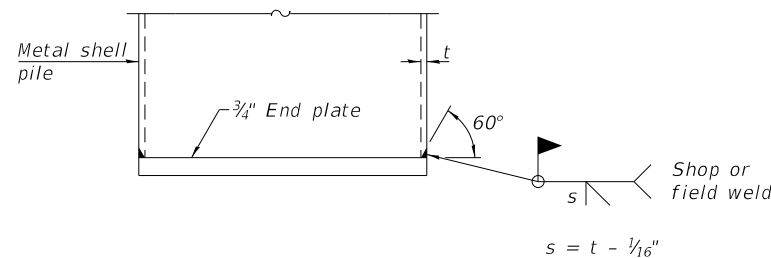


**ELEVATION**



**SECTION A-A**

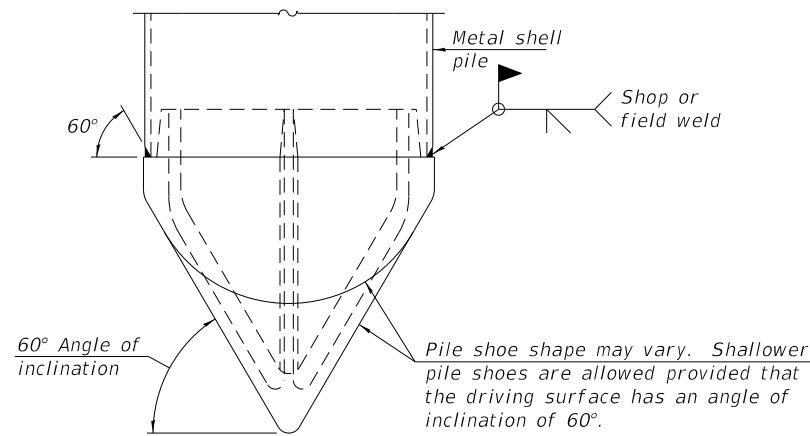
**INDIVIDUAL PILE CONCRETE ENCASUREMENT**  
(When specified)



**END PLATE ATTACHMENT**

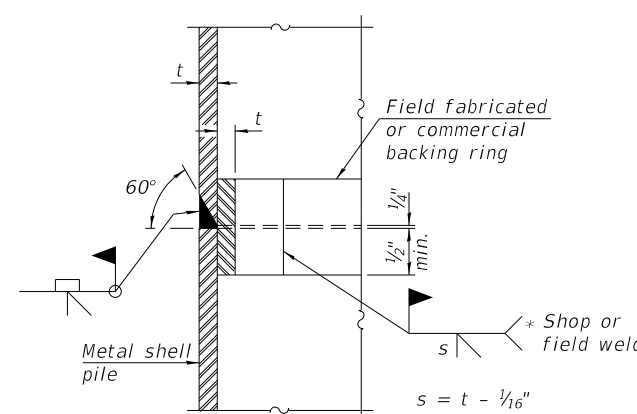
**WELDED COMMERCIAL SPLICE**

Notes:  
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.  
Pile segments shall be driven to solid contact with splicer before welding.



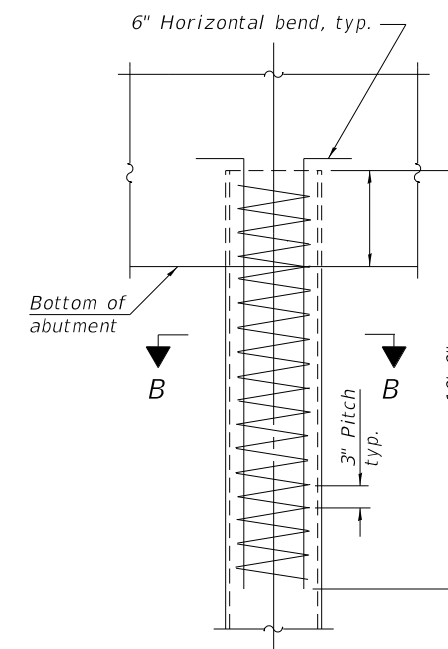
**PILE SHOE ATTACHMENT**

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

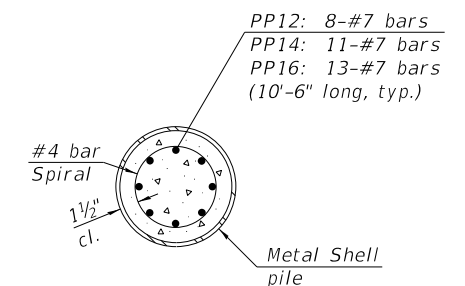


**COMPLETE PENETRATION WELD SPLICE**

\* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



**ELEVATION**



**SECTION B-B**

**REINFORCEMENT AT ABUTMENTS**  
(Omit when concrete encasement is specified)

Note:  
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

HRG PROJECT NO.: 80756  
HRG PROJ. CONTACT: 80756 Str. Pile Details.dgn  
FILE NAME: IL.pdf, bw.pdf, cf.pdf  
PLOT DRIVER: plg-fabell.tbl  
PEN TABLE:

F-MS 1-1-2020



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DRAWN -	WJH	REVISED -
DATE -	10/5/2020	REVISED -

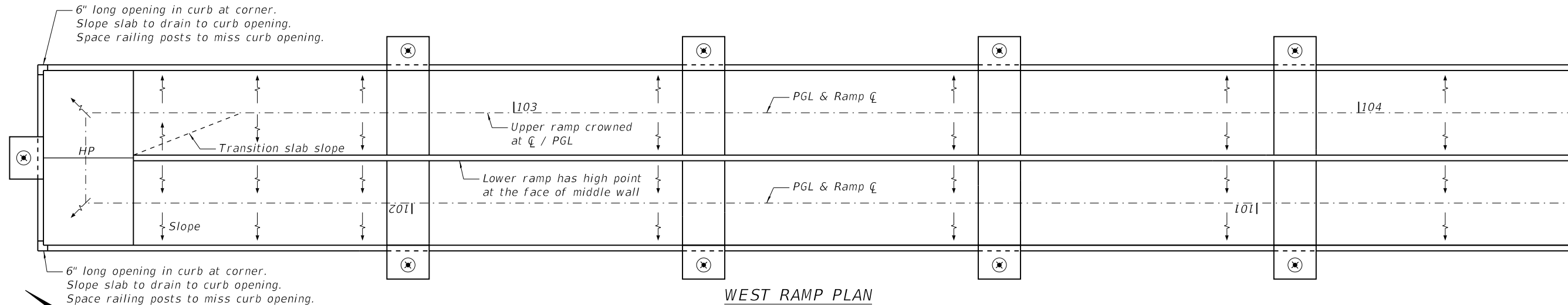
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS**

SHEET NO. S-29 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	51
CONTRACT NO.			61F89	

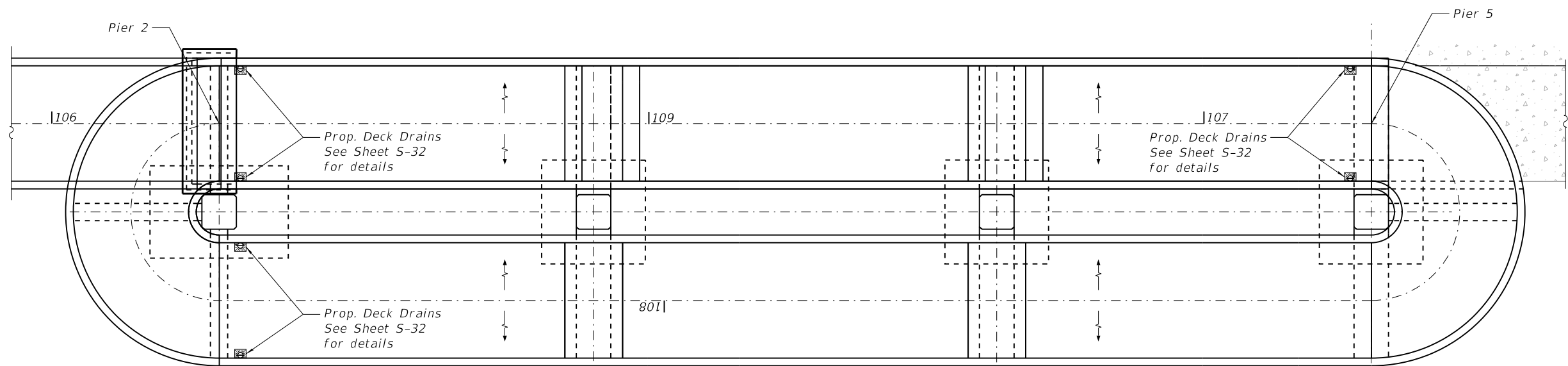
ILLINOIS FED. AID PROJECT



WEST RAMP PLAN

LEGEND

- ↑ = Cross slope direction of ramp slab
- ⊗ = Light pole



EAST RAMP PLAN

HRC PROJECT NO.: 80756  
 HRC PROJ. CONTACT: 80756 Str. Deck Drainage Plans.dgn  
 FILE NAME: IL\_paf.bwplctg  
 PLOT DRIVER: pldtbltbl  
 PEN TABLE:



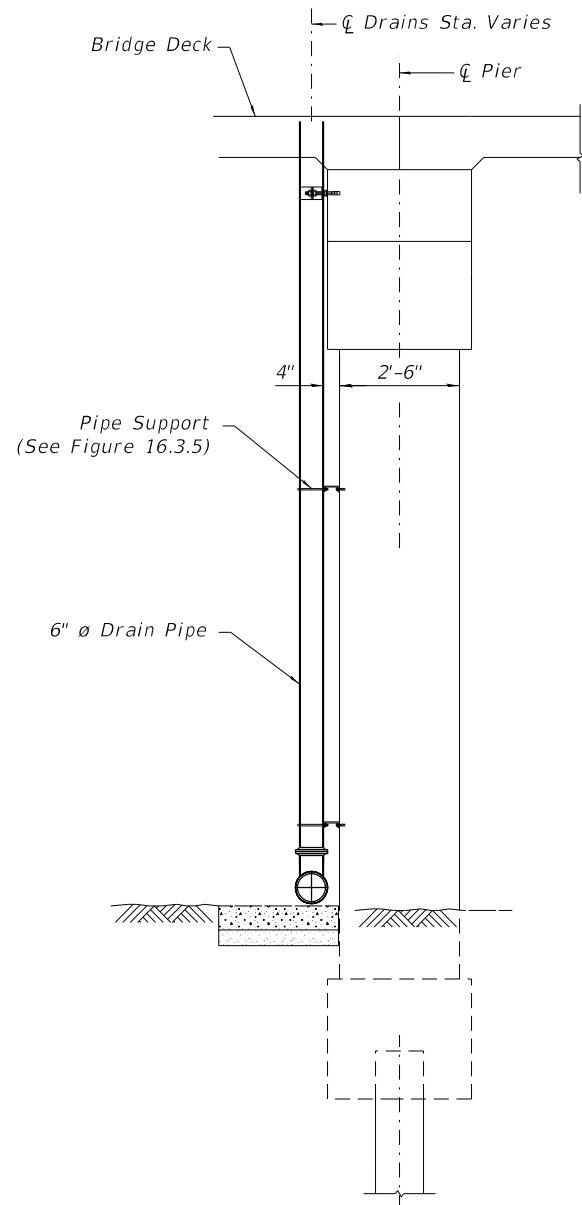
DESIGNED -	JMW/OS	REVISED -	
CHECKED -	AEU	REVISED -	
DRAWN -	WJH	REVISED -	
DATE -	10/5/2020	REVISED -	

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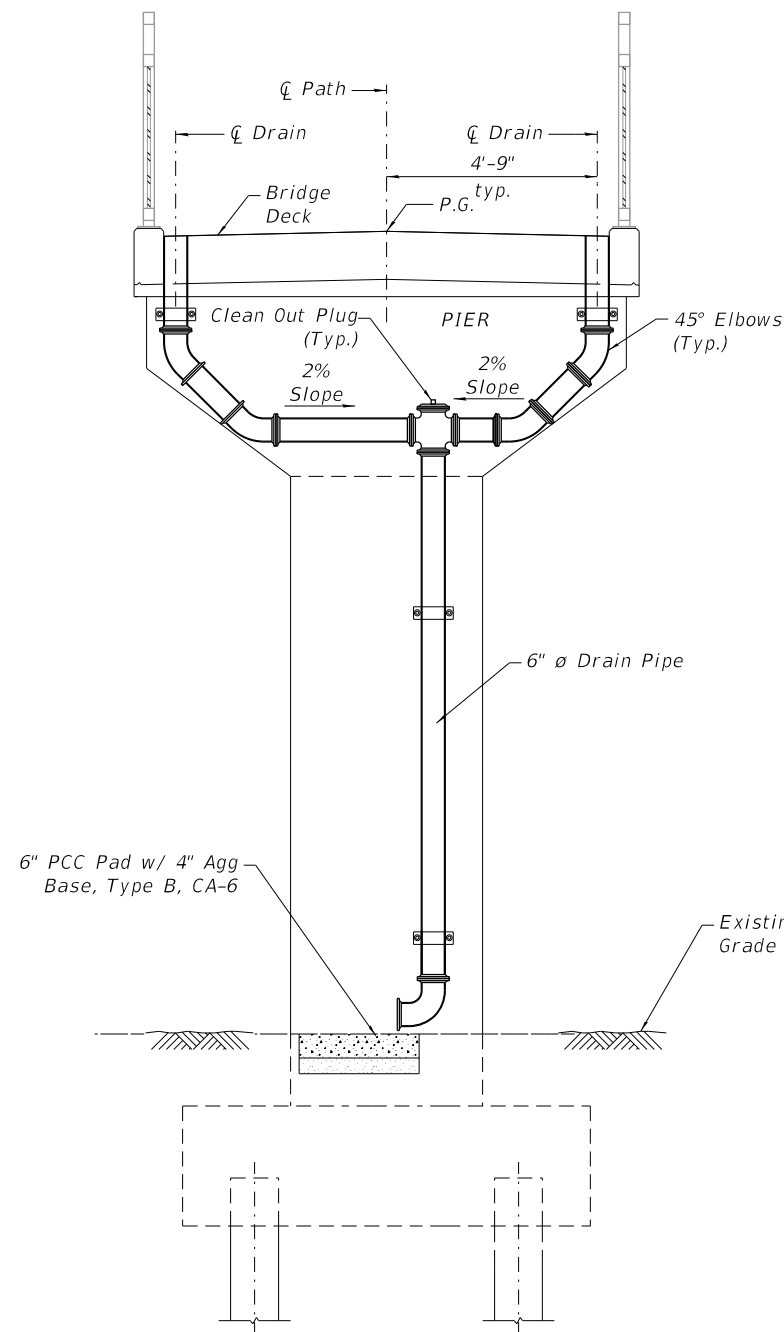
DECK DRAINAGE PLAN

SHEET NO. S-30 OF S-35 SHEETS

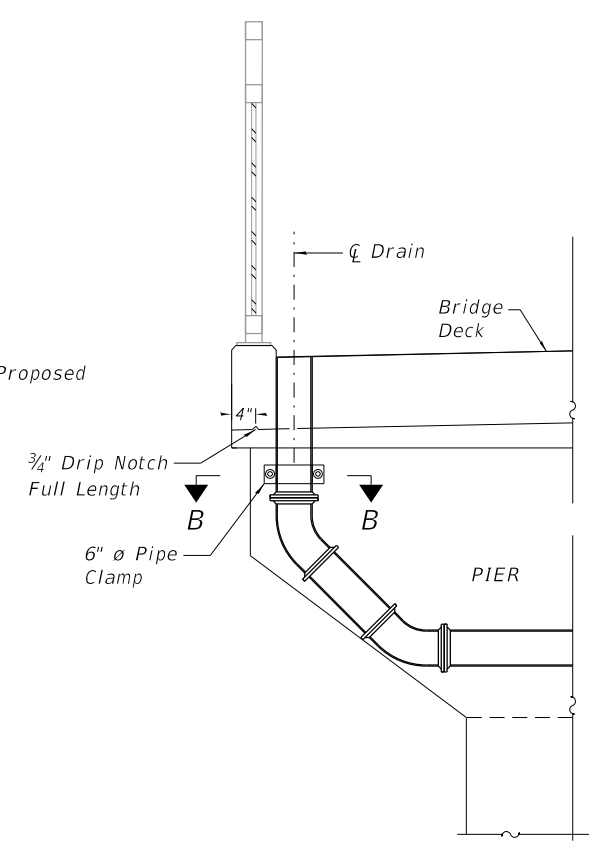
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	52
CONTRACT NO.			61F89	
ILLINOIS FED. AID PROJECT				



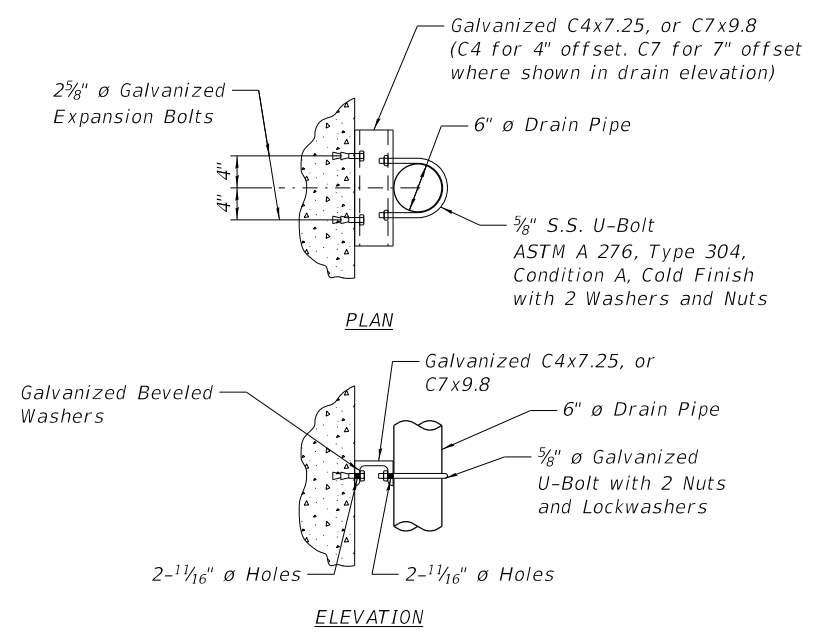
**END VIEW PIER 1**  
(Looking South)



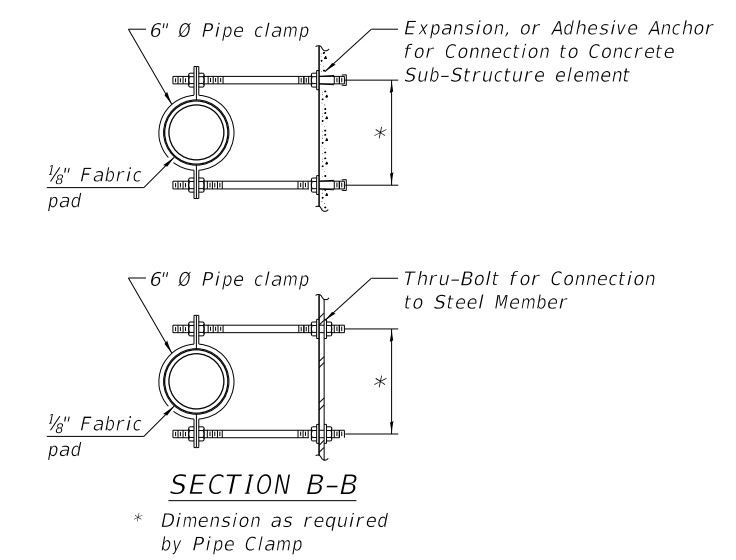
**ELEVATION PIER 1**  
(Looking Downstation)



**SECTION THRU PARAPET - PIER 1**



**DRAIN SUPPORT DETAILS**  
Figure 16.3.5



**SECTION B-B**  
\* Dimension as required by Pipe Clamp

**BILL OF MATERIAL**

Item	Unit	Quantity
Drainage System	L SUM	1

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 HRC PROJ. CONTACT: 80756.Str\_Deck\_Drainage\_Details.dgn  
 FILE NAME: IL\_paf.bw.afcfq  
 PLOT DRIVER: plc-fabell.tbl  
 PEN TABLE:

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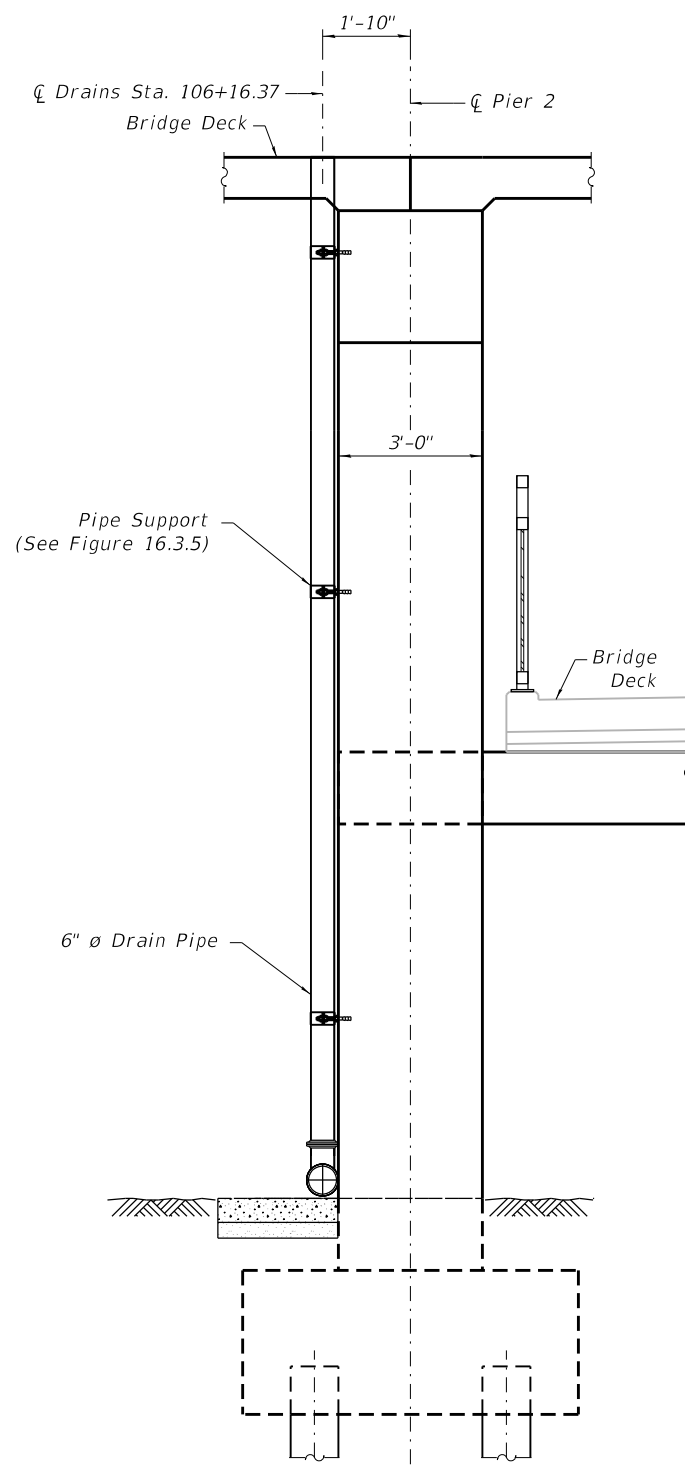
DESIGNED - JMW/OS	REVISED -
CHECKED - AEU	REVISED -
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DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS**  
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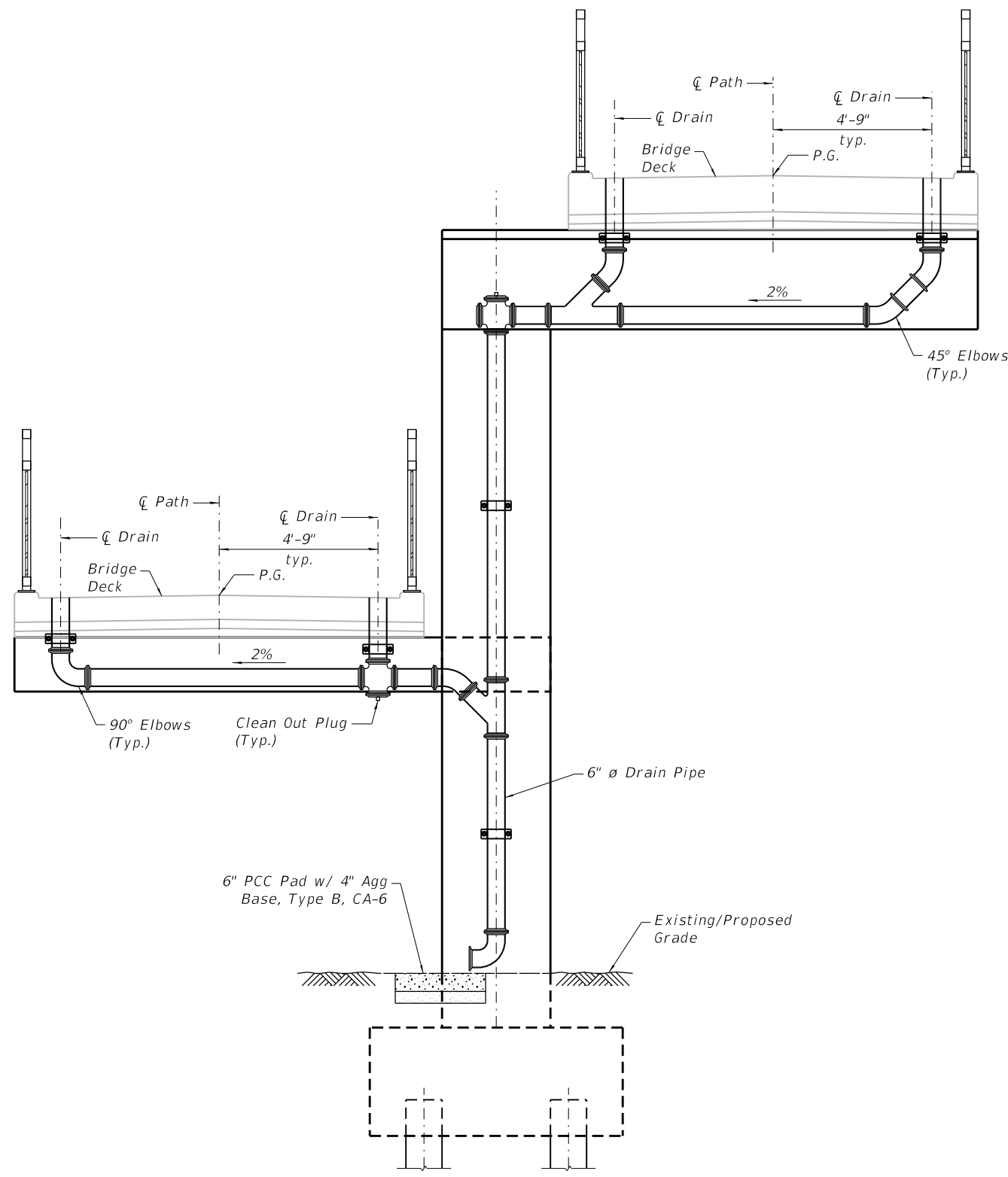
**DECK DRAINAGE DETAILS**

SHEET NO. S-31 OF S-35 SHEETS

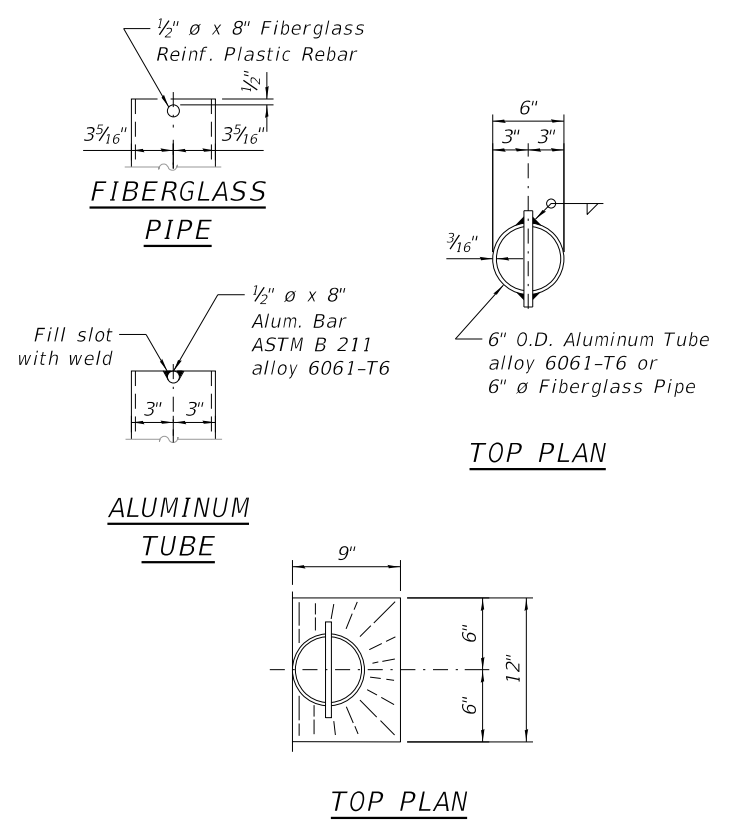
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	53
CONTRACT NO.			61F89	
ILLINOIS FED. AID PROJECT				



**END VIEW PIER 2**  
(Looking North)



**ELEVATION PIER 2**  
(Looking Upstation - looking west)



**Notes:**  
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Steel Structures Painting Council's Spec. SSPC-SP1 prior to painting.  
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

HRC PROJECT NO.: 80756  
 HRC PROJ. CONTACT: 80756.Str.Deck.Drainage\_Details02.dgn  
 FILE NAME: IL.pdf.bw.pdf.ctb  
 PLOT DRIVER: plc-habel.tbl  
 PEN TABLE:

HRGreen.com  
 ■sole Professional Design Firm  
 #184-001322

**KMI**  
 Katsouni Mehd, Inc.  
 ARCHITECTS & ENGINEERS  
 223 W. Jackson Blvd., Suite 1010 Chicago, IL 60606  
 Tel.: (312)987-5900 Fax.: (312)987-5892

DESIGNED	- JMW/OS	REVISED	-
CHECKED	- AEU	REVISED	-
DRAWN	- WJH	REVISED	-
DATE	- 10/5/2020	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**


**DECK DRAINAGE DETAILS**

SHEET NO. S-32 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	54
CONTRACT NO. 61F89				


ILLINOIS FED. AID PROJECT

MSET PROJECT NO.: 18332		LOG OF BORING NO. SB-1		Page 1 of 2				
PROJECT: McKinley Street Pedestrian Bridge			SITE LOCATION: Mundelein, IL					
BORING LOCATION: West Boring			CLIENT: HR Green, Inc.					
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc% Dry Unit Weight, pcf Unconfined Compressive Strength, tsf	
0	[Hatched Pattern]	FILL: Brown & Black Clay LOAM, A-6, very stiff to firm	742.5	SS 1	5	15	2.75 Qp	
5		SS 2	3	19	105	0.70		
		SS 3A	4	29	1.5 Qp			
		SS 3B	10	21	86	1.11		
		SS 4	13	16	115	3.80		
		SS 5	18	14	104	3.26		
		SS 6	14	14	118	4.54		
		SS 7	15	15	110	4.19		
		SS 8	17	17	104	2.21		
		SS 9	21	16	109	4.15		
		SS 10	17	17	108	3.76		
		SS 11	21	18	113	5.16		
		SS 12	18	19	104	3.22		
	SS 13	20	20	106	3.61			
		Yellow Brown Clay LOAM, A-6, stiff	736.0					
		Brown & Grey CLAY, A-6, very stiff	734.5					
		Grey CLAY, A-6, hard to very stiff	729.5					

<b>WATER LEVEL OBSERVATIONS, ft.</b> DURING DRILLING: 56.0' IMMEDIATELY AFTER DRILLING: 34.8' DELAYED READING AFTER COMPLETION: Caved at		<b>BORING STARTED:</b> 5/23/18 <b>BORING COMPLETED:</b> 5/23/18 <b>LOGGED BY:</b> MP <b>BORING METHOD:</b> CFA
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Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 (847) 844-3875

MSET PROJECT NO.: 18332		LOG OF BORING NO. SB-1		Page 2 of 2					
PROJECT: McKinley Street Pedestrian Bridge			SITE LOCATION: Mundelein, IL						
BORING LOCATION: West Boring			CLIENT: HR Green, Inc.						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc% Dry Unit Weight, pcf Unconfined Compressive Strength, tsf		
40	[Hatched Pattern]	Grey CLAY, A-6, very stiff to hard	702.5	SS 14	17	22	103	3.53	
45		SS 15	15	24	100	3.07			
50		SS 16	15	23	2.95				
55		SS 17	18	24	3.30				
60		SS 18	23	9					
65		SS 19	33	13					
			Grey Sandy LOAM, A-2-4, medium dense to dense	686.5					
			End of Boring at 65 Feet	677.5					

<b>WATER LEVEL OBSERVATIONS, ft.</b> DURING DRILLING: 56.0' IMMEDIATELY AFTER DRILLING: 34.8' DELAYED READING AFTER COMPLETION: Caved at		<b>BORING STARTED:</b> 5/23/18 <b>BORING COMPLETED:</b> 5/23/18 <b>LOGGED BY:</b> MP <b>BORING METHOD:</b> CFA
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Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 (847) 844-3875

HRC PROJECT NO.: 80756  
 HRC PROJ CONTACT: 80756 Str. Boring Log.dgn  
 FILE NAME: IL.pdf, bwahfcfg  
 PLOT DRIVER: plc-habel.tbl  
 PEN TABLE:


 HRGreen.com  
 Professional Design Firm  
 #184-001322

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DESIGNED - JMW/OS	REVISED -
CHECKED - AEU	REVISED -
DRAWN - WJH	REVISED -
DATE - 10/5/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

SHEET NO. S-33 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	55
CONTRACT NO. 61F89			ILLINOIS FED. AID PROJECT	



MSET PROJECT NO.: 18332		LOG OF BORING NO. SB-2		Page 1 of 2				
PROJECT: McKinley Street Pedestrian Bridge			SITE LOCATION: Mundelein, IL					
BORING LOCATION: East Boring			CLIENT: HR Green, Inc.					
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS
				TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	Wc% Dry Unit Weight, pcf	
0		4-1/2" Bituminous Concrete/10"	743.0					
		Crushed Stone	741.8	SS 1	7	18		3.5 Qp
		Dark Grey & Black CLAY, A-7-6, very stiff	740.0					
		Brown & Grey CLAY, A-6, hard to very stiff		SS 2	11	17	110	4.04
5				SS 3	12	16	115	3.49
				SS 4	14	23	99	4.42
10		Grey Silty LOAM, A-4, moist, medium dense	732.5					
				SS 5	10	18		
				SS 6	14	23		
15		Grey Clay LOAM to CLAY, A-6, very stiff	727.5					
				SS 7	15	12		3.0 Qp
		cobble or boulder at 16'						
				SS 8	11	19	105	2.02
20				SS 9	14	20	104	2.21
				SS 10	11	19	104	2.41
25				SS 11	19	20	105	2.48
				SS 12	13	20	104	2.99
30								
35				SS 13	13	21	101	2.33

WATER LEVEL OBSERVATIONS, ft.  
 DURING DRILLING: None  
 IMMEDIATELY AFTER DRILLING: Dry  
 DELAYED READING AFTER: None



BORING STARTED: 5/22/18  
 BORING COMPLETED: 5/22/18  
 LOGGED BY: MP  
 BORING METHOD: CFA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

MSET PROJECT NO.: 18332		LOG OF BORING NO. SB-2		Page 2 of 2				
PROJECT: McKinley Street Pedestrian Bridge			SITE LOCATION: Mundelein, IL					
BORING LOCATION: East Boring			CLIENT: HR Green, Inc.					
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS
				TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	Wc% Dry Unit Weight, pcf	
40		Grey CLAY, A-6, very stiff	703.0					
				SS 14	19	23		3.41
				SS 15	14	23	102	2.95
45								
				SS 16	19	23		3.41
50		Grey Clay LOAM, A-6, very stiff	693.0					
				SS 17	18	15		3.0 Qp
55								
		Grey CLAY, A-6, hard	685.0					
60				SS 18	26	17		4.19
				SS 19	30	19	114	6.36
65		End of Boring at 65 Feet	678.0					

WATER LEVEL OBSERVATIONS, ft.  
 DURING DRILLING: None  
 IMMEDIATELY AFTER DRILLING: Dry  
 DELAYED READING AFTER: None



BORING STARTED: 5/22/18  
 BORING COMPLETED: 5/22/18  
 LOGGED BY: MP  
 BORING METHOD: CFA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

HRC PROJECT NO.: 80756  
 HRC PROJ. CONTACT: 80756 Str. Boring Log02.dgn  
 FILE NAME: IL.pdf, b.w.p.hrcfg  
 PLOT DRIVER: pldtbl.tbl  
 PEN TABLE:



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 Tel: (312) 987-5900 Fax: (312) 987-5892

DESIGNED - JMW/OS	REVISED -
CHECKED - AEU	REVISED -
DRAWN - WJH	REVISED -
DATE - 10/5/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

SHEET NO. S-34 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	56
CONTRACT NO. 61F89			ILLINOIS FED. AID PROJECT	

MSET PROJECT NO.: 19681		LOG OF BORING NO. SB-4		Page 1 of 1					
PROJECT: Pedestrian Bridge over CNRR Access Ramps			SITE LOCATION: Mundelein, Illinois						
BORING LOCATION: East Access Ramp			CLIENT: HR Green, Inc.						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc-% Dry Unit Weight, pcf		Unconfined Compressive Strength, tsf
0		Topsoil FILL - Black CLAY (12")	746.7						
0		FILL - Dark Brown and Grey, trace Black Clay LOAM, trace Concrete, trace RAP, A-6, hard to Black and Grey, trace Brown	745.7	SS	1	15	11	3.75 (Op)	
4		FILL - Brown Sandy LOAM with Gravel, trace Brick, A-1-b, dense	742.7	SS	2A	10	14	113	7.10
4		Brown, trace Grey Clay LOAM to CLAY, A-6, hard	741.2	SS	2B	39	13	--	
8		Grey CLAY to Clay LOAM, A-6, hard to very stiff	738.2	SS	3	12	14	112	4.16
12		Sand seam at 12.2', wet		SS	4	14	14	113	4.50
12				SS	5	12	14	116	4.31
16				SS	6	14	12	116	3.14
20				SS	7	9	15	114	3.07
20				SS	8	11	15		2.0 Op
20				SS	9	9	15	116	2.25
		Auger Refusal at 22.5' (Poss. Boulder)	724.2						

MSET PROJECT NO.: 20495		LOG OF BORING NO. SB-5		Page 1 of 1					
PROJECT: McKinley Street Bridge - West Ramp			SITE LOCATION: Mundelein, IL						
BORING LOCATION: See Location Map			CLIENT: HR Green, Inc.						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc-% Dry Unit Weight, pcf		Unconfined Compressive Strength, tsf
0		TOPSOIL - Black CLAY (4")	744.5						
0		FILL - Brown Sandy Clay LOAM, trace Brick, A-6, very stiff	744.2	SS	1	6	14	2.5 (Op)	
4		FILL - Brown, trace Dark Brown Clay LOAM, A-6, very stiff	741.5	SS	2A	6	15	105	2.72
4		Black to Brown, Grey and Black CLAY, A-7-6, very stiff	740.5	SS	2B	5	29		2.5 (Op)
8		Brown and Grey CLAY, A-6, very stiff to hard	738.5	SS	3	4	23	97	2.56
10				SS	4	9	21	102	5.01
10				SS	5	16	22	101	7.26
15		moist at 14.5' to Dark Brown and Grey		SS	6	10	19	109	4.81
15		Grey SAND (f-m), A-3, wet, slightly dense	729.0	SS	7A	6	15		
15		Grey CLAY, A-6, hard to very stiff	728.0	SS	7B	10	16	115	4.78
20				SS	8	11	12	127	3.65
20				SS	9	14	17	112	4.62
25				SS	10	14	16	111	3.26
25				SS	11	11	18	110	3.10
30				SS	12	11	17	112	3.30
30		End of Boring at 30.0'	714.5						Hole Caved at 24.6'

MSET PROJECT NO.: 20495		LOG OF BORING NO. SB-6		Page 1 of 1					
PROJECT: McKinley Street Bridge - West Ramp			SITE LOCATION: Mundelein, IL						
BORING LOCATION: See Location Map			CLIENT: HR Green, Inc.						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc-% Dry Unit Weight, pcf		Unconfined Compressive Strength, tsf
0		TOPSOIL - Black CLAY (4")	743.5						
0		FILL - Brown, trace Black Sandy Clay LOAM, trace Brick, A-6, hard	743.2	SS	1	8	14		4.5+ (Op)
4		FILL - Brown, trace Dark Brown Clay LOAM, trace Organics, A-6, moist, very stiff	740.5	SS	2	9	20		2.0 (Op)
5		Probable Cobble at 6.0'		SS	3	26	10		
10		Brown CLAY, A-6, hard	736.0	SS	4	11	19	103	6.52
10		Grey CLAY, A-6, very stiff to hard	732.5	SS	5	9	18		2.72
15				SS	6	11	16	112	5.43
15				SS	7	9	17	109	3.03
20				SS	8	10	17	110	4.85
20				SS	9	11	17	109	4.58
25				SS	10	11	17	109	3.92
25				SS	11	10	19	106	4.31
30				SS	12	10	19	105	4.04
30		End of Boring at 30.0'	713.5						

HRC PROJECT NO.: 80756  
 HRC PROJ CONTACT: 80756\_Str\_Boring\_Log03.dgn  
 FILE NAME: IL.pdf\_bw.pdf  
 PLOT DRIVER: il.pdf\_bw.pdf  
 PEN TABLE: plc-table.tbl

HRGreen.com  
 ■ In-House Professional Design Firm  
 #184-001322

**KMI**  
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DESIGNED -	JMW/OS	REVISED -	
CHECKED -	AEU	REVISED -	
DRAWN -	WJH	REVISED -	
DATE -	10/5/2020	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

































**SOIL BORING LOG**  
 SHEET NO. S-35 OF S-35 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	57
CONTRACT NO.			61F89	
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES:**

1. ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.
2. THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THIS CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE USED, EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, SPECIFICATIONS GOVERN UNLESS THE ARCHITECT/ENGINEER DIRECTS OTHERWISE.
3. THE ELECTRICAL CONTRACTOR SHALL CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO INSURE THAT NO FIXTURE, OUTLET, OR CONTROL AND POWER WIRING IS OMITTED. HE SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA. IN SOME CASES EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN ONLY. ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQUIRED FOR THE PROPER FUNCTION OF BUILDING EQUIPMENT. NO EXTRA CHARGES SHALL BE ACCEPTED BY OWNER AFTER BIDDING FOR SUCH EQUIPMENT AND LABOR.
4. EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO INSURE THAT THE EQUIPMENT IS BEING USED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONDUCTOR CAPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.
5. COORDINATE WORK WITH OTHER TRADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS, AND OTHER STRUCTURAL FEATURES.
6. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE APPLICABLE CODES AND REGULATIONS.
7. ALL LIGHTING FIXTURES ARE TO BE LOCATED AS REQUIRED ON THE SITE TO CLEAR UNDERGROUND UTILITIES.
8. CONDUIT RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC. ALL CONDUITS SHALL RUN CONCEALED, EXCEPT WHERE APPROVED BY OWNER.
9. FURNISH AND INSTALL EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH CODE REQUIREMENTS.
10. ALL OUTDOOR OUTLETS SHALL BE W.P. AND THE GFI TYPE.
11. ALL OUTDOOR ENCLOSURES SHALL BE NEMA 3R AND GASKETED.
12. CONTRACTOR SHALL CONTACT AND COORDINATE WITH METRA 72 HOURS IN ADVANCE FOR THE RELOCATION OF ALL VOICE OF METRA EQUIPMENT AND LIGHT FIXTURES.
13. METRA/R.R. SHALL BE CONTACTED TO RELOCATE, INSTALL, AND WIRE ANY RAILROAD EQUIPMENT LOCATED WITHIN R.R. ROW.
14. R.R. FLAGGING IS REQUIRED WITHIN 25' OF RAILROAD TRACKS. CONTRACTOR SHALL COORDINATE WITH METRE/R.R. AND PAY FOR ALL R.R. FLAGGING.
15. LIGHTING CONTROL PHOTOCELL SHALL BE INSTALLED FACING NORTH.
16. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH NYLON PULL CORD WITH THREE FEET PIGTAIL ON BOTH ENDS OF CONDUIT.
17. ALL WIRES SHALL BE INSTALLED AT THE TIME OF ROUGH INSPECTION, INCLUDING LOW VOLTAGE WIRING.
18. EXISTING ITEMS NOTED TO REMAIN SHALL BE LEFT IN PLACE AND IN OPERATION.
19. ALL TRENCHING EXCAVATIONS CAUSED BY NEW WORK SHALL BE BACKFILLED AND FINISHED TO MATCH EXISTING SURROUNDING.
20. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH "INTERNATIONAL BUILDING CODE (IBC) 2015 EDITION", "THE NATIONAL ELECTRICAL CODE (NEC) 2014 EDITION", AND ALL AMENDMENTS OF THE VILLAGE OF MUNDELEIN BUILDING AND ELECTRICAL CODES.
21. A PRE-ENERGIZATION AND OPERATION TEST SHALL BE PERFORMED PER 225.56A AND A(6). TEST RESULTS SHALL BE PROVIDED TO THE VILLAGE.

**ELECTRICAL STANDARD SYMBOL LIST**

	CIRCUIT NO. 6
	DUPLEX RECEPTACLE 20A, 120V
	CIRCUIT NO. 6 TWO DUPLEX RECEPTACLES 20A, 120V IN A SINGLE BOX
	WEATHERPROOF DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER W/ KEYED COVER
	WEATHERPROOF QUAD RECEPTACLE WITH GROUND FAULT INTERRUPTER W/ KEYED COVER
	JUNCTION BOX
	FLEXIBLE CONDUIT
	UTILITY ELECTRIC METER
	PHOTOCELL. LOCATED FACING NORTH.
	CONTACTOR
	FUSE
	CIRCUIT BREAKER
	HANDHOLE (E=EXISTING)
	EXISTING LIGHTING CONTROLLER
	OUTDOOR CABINET (E=EXISTING)
	ELECTRICAL CABINET
	CIRCUIT BREAKER IN NEMA 1 ENCLOSURE
	UTILITY POLE (E=EXISTING)
	EXISTING POLE MOUNTED LIGHT FIXTURE
	EXISTING POLE MOUNTED PLATFORM LIGHT FIXTURE WITH SPEAKER
	EXISTING POLE MOUNTED LIGHT FIXTURE TO BE REMOVED
	EXISTING POLE MOUNTED LIGHT FIXTURE TO BE REMOVED AND RELOCATED
	EXISTING POLE MOUNTED PLATFORM LIGHT FIXTURE WITH SPEAKER TO BE REMOVED AND RELOCATED
	FIXTURE TYPE RELOCATED EXISTING POLE MOUNTED STREET LIGHT FIXTURE WITH NEW LED LUMINAIRE
	RELOCATED EXISTING POLE MOUNTED PLATFORM LIGHT FIXTURE WITH SPEAKER
	FIXTURE TYPE LIGHT POLE WITH SINGLE LUMINAIRE
	CIRCUIT NUMBER 2
	4' LINEAR LIGHT FIXTURE
	1' X 4' SURFACE MOUNTED LIGHT FIXTURE
	EX UE EXISTING UNDERGROUND ELECTRICAL
	U E UNDERGROUND ELECTRICAL
	E E ELECTRIC POWER CONDUIT AND WIRING

**ABBREVIATIONS**

A., AMP.	AMPERE
A.F.F.	ABOVE FINISHED FLOOR
C.	CONDUIT
C/B	CIRCUIT BREAKER
CCT	CIRCUIT
CF	CEILING FAN
COL.	COLUMN
COMED	COMMONWEALTH EDISON
CONC.	CONCRETE
DIA.	DIAMETER
DWG.	DRAWING
E	EXISTING
EC	ELECTRICAL CABINET
ELEC.	ELECTRIC
ELEV.	ELEVATOR
EQ.	EQUAL
EXT.	EXTERIOR
FIXT.	FIXTURE
GALV.	GALVANIZED
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HP	HORSE POWER
JB	JUNCTION BOX
KW	KILOWATT
LP	LIGHTING PANEL
MECH.	MECHANICAL
MIN.	MINIMUM
MSE	MECHANICALLY STABILIZED EARTH
N.E.M.A.	NATIONAL ELECTRIC MANUFACTURER ASSOCIATION
No.	NUMBER
N.O.	NORMALLY OPEN
N.T.S.	NOT TO SCALE
P.	POLE
PLUMB.	PLUMBING CONTRACTOR
POE	POWER OVER ETHERNET
POS	POWER OVER ETHERNET SWITCH
REF.	REFERENCE
RGS	RIGID GALVANIZED STEEL
RSC	RIGID STEEL CONDUIT
PVC	POLYVINYL CHLORIDE CONDUIT
SCHED.	SCHEDULE
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD	STANDARD
STR.	STRUCTURAL
TYP.	TYPICAL
V.	VOLTS
V.A.	VOLT-AMPERE
V.I.F.	VERIFY IN FIELD
VOM	VOICE OF METRA
W.	WATTS
WP	WEATHER PROOF
∅, PH	PHASE

DATE	
BY	
REVISIONS	
NO.	
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BY	
REVISIONS	
NO.	

HRG PROJECT NO. #PROJCT008  
 HRG PROJ. CONTACT #HRGPM#  
 FILE NAME: #FILES#  
 PLOT DRIVER: #PLTDIV#  
 PEN TABLE: #PENLTABL#

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 ARCHITECTS • ENGINEERS  
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 Tel.: (312)987-9800 Fax: (312)987-9892

DESIGNED	- JM	REVISED	-
DRAWN	- KH	REVISED	-
CHECKED	- MK	REVISED	-
DATE	- 02-20-2020	REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

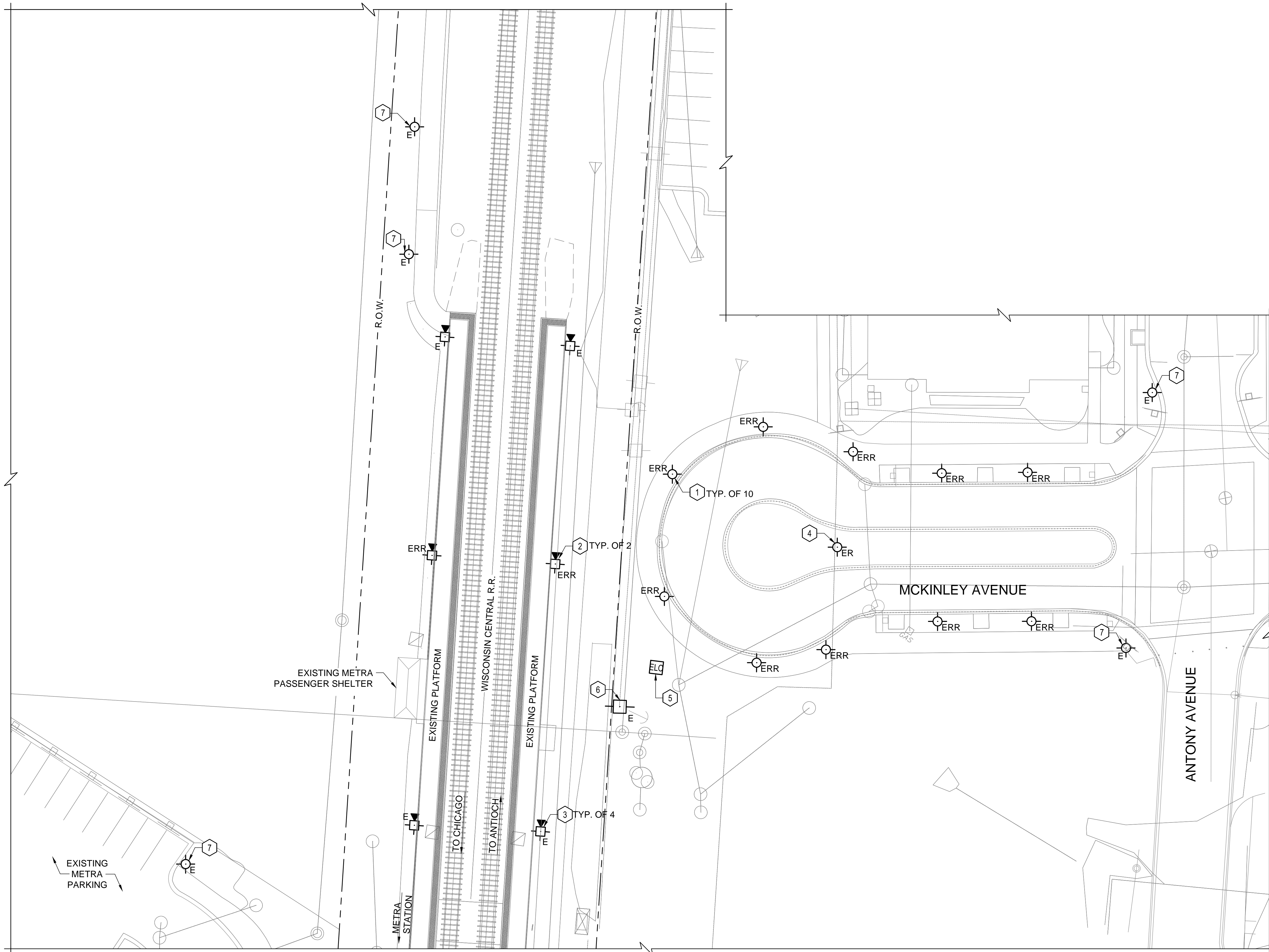
ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS			
E001			
SCALE: AS NOTED	SHEET 1 OF 7 SHEETS	STA. ----- TO STA. -----	

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00097-00-BR	LAKE	65	58
CONTRACT NO. 61F89				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

PLAN	REVISIONS	DATE
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	AS-BUILT FILE NAME	

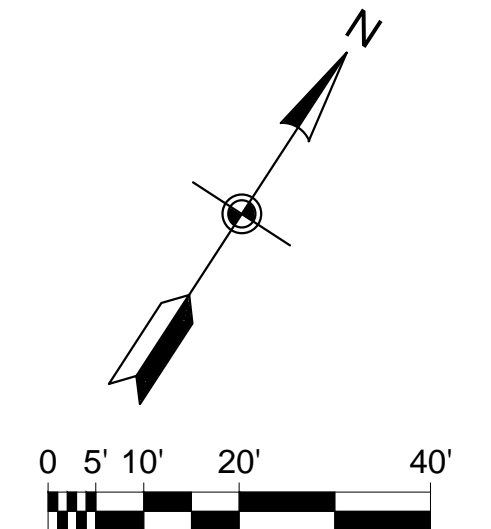
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NOTE BOOK NO.	GRADES CHECKED	
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HRG PROJECT NO. #PROJ01008  
 HRG PROJ. CONTACT #HRG010  
 FILE NAME #FILES01  
 PLOT DRIVER #PLTDRVR  
 PEN TABLE #PENLTABLER



KEY NOTES	
1	EXISTING POLE MOUNTED STREET LIGHT FIXTURE TO BE REMOVED AND RELOCATED. REPLACE LUMINAIRE. REMOVE FOUNDATIONS. SEE DETAIL 2/E501.
2	EXISTING POLE MOUNTED PLATFORM LIGHT FIXTURE AND POLE. DISCONNECT, REMOVE, AND RELOCATE. REMOVE FOUNDATIONS.
3	EXISTING POLE MOUNTED PLATFORM LIGHT FIXTURE TO REMAIN.
4	EXISTING POLE MOUNTED STREET LIGHT FIXTURE, POLE, AND FOUNDATION TO BE REMOVED.
5	EXISTING LIGHTING CONTROLLER.
6	EXISTING COMED POLE.
7	EXISTING POLE MOUNTED LIGHT FIXTURE TO REMAIN.

**1 SITE REMOVAL PLAN**  
 E100 SCALE: 1" = 20'-0"



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CHECKED	- MK	REVISED	-
DATE	- 09-03-2020	REVISED	-

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SITE POWER AND LIGHTING REMOVAL PLAN	
E100	
SCALE: AS NOTED	SHEET 2 OF 7 SHEETS
STA. _____	TO STA. _____

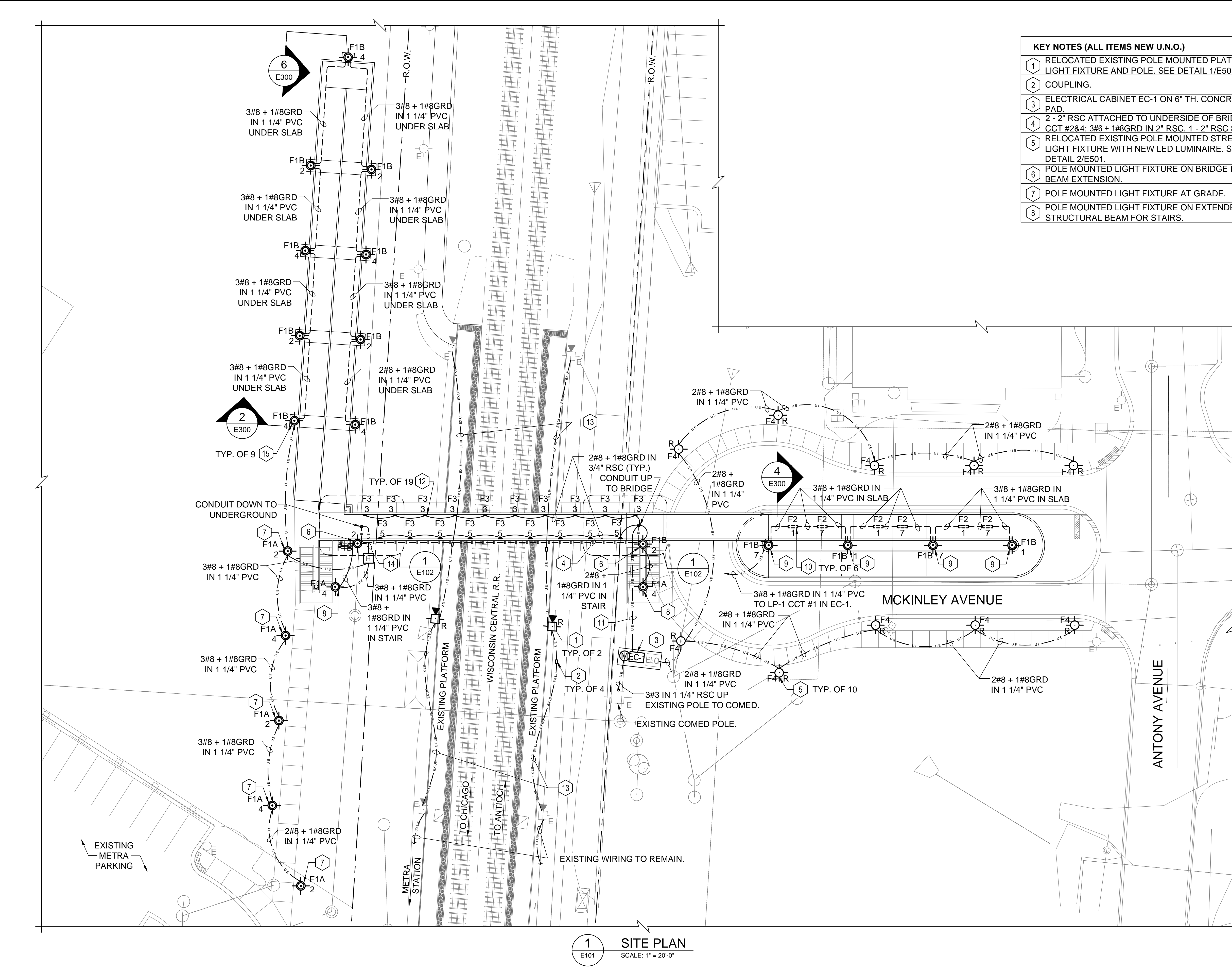
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	12-00097-00-BR	LAKE	65	59
CONTRACT NO. 61F89				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



DATE	
BY	
REVISIONS	
NO.	
PLAN	
NOTE BOOK	
NO.	

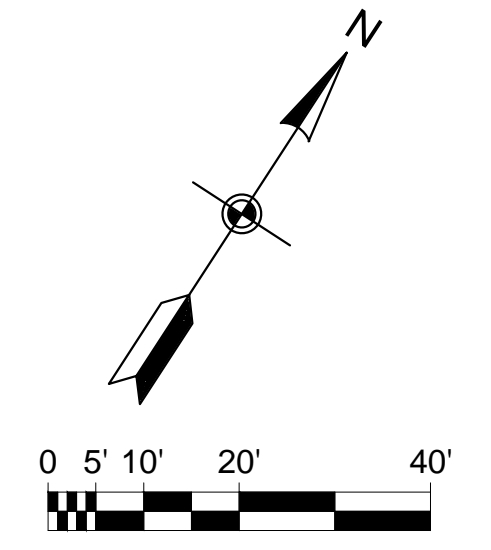
DATE	
BY	
REVISIONS	
NO.	
PROFILE	
NOTE BOOK	
NO.	

HRG PROJECT NO. #PROJ01008  
 HRG PROJ. CONTACT #HRG010  
 FILE NAME #FILES  
 PLOT DRIVER #PLTDRVR  
 PEN TABLE #PENLTABLER



KEY NOTES (ALL ITEMS NEW U.N.O.)	
1	RELOCATED EXISTING POLE MOUNTED PLATFORM LIGHT FIXTURE AND POLE. SEE DETAIL 1/E501.
2	COUPLING.
3	ELECTRICAL CABINET EC-1 ON 6" TH. CONCRETE PAD.
4	2 - 2" RSC ATTACHED TO UNDERSIDE OF BRIDGE: CCT #2&4: 3#6 + 1#8GRD IN 2" RSC. 1 - 2" RSC SPARE.
5	RELOCATED EXISTING POLE MOUNTED STREET LIGHT FIXTURE WITH NEW LED LUMINAIRE. SEE DETAIL 2/E501.
6	POLE MOUNTED LIGHT FIXTURE ON BRIDGE PIER BEAM EXTENSION.
7	POLE MOUNTED LIGHT FIXTURE AT GRADE.
8	POLE MOUNTED LIGHT FIXTURE ON EXTENDED STRUCTURAL BEAM FOR STAIRS.
9	POLE MOUNTED LIGHT FIXTURE ON TOP OF STRUCTURAL PIER.
10	1' X 4' LIGHT FIXTURE SURFACE MOUNTED ON UNDERSIDE OF RAMP DECK.
11	CCT #2&4: 3#6 + 1#8GRD AND CCT #3&5: 3#8 + 1#8GRD IN 1 1/4" PVC UNDERGROUND TO BRIDGE PIER.
12	20" LINEAR LIGHT FIXTURE MOUNTED ON INNER FACE OF TOP CHORD OF BRIDGE TRUSS.
13	ELECTRICAL POWER AND VOM CONDUIT AND WIRING (V.I.F.). INTERCEPT EXISTING CONDUIT AND INSTALL NEW CONDUIT TO RELOCATED POLE. REPLACE EXISTING WIRING FROM EXISTING POLE TO RELOCATED POLE.
14	CCT #2&4: 3#6 + 1#8GRD IN 1 1/4" PVC UNDERGROUND TO HANDHOLE.
15	POLE MOUNTED LIGHT FIXTURE ON MSE WALL RAMP SLAB EXTENSION.

1 SITE PLAN  
 E101 SCALE: 1" = 20'-0"



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DRAWN	- KH	REVISED	-
CHECKED	- MK	REVISED	-
DATE	- 09-03-2020	REVISED	-

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SITE POWER AND LIGHTING PROPOSED PLAN  
 E101  
 SCALE: AS NOTED SHEET 3 OF 7 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

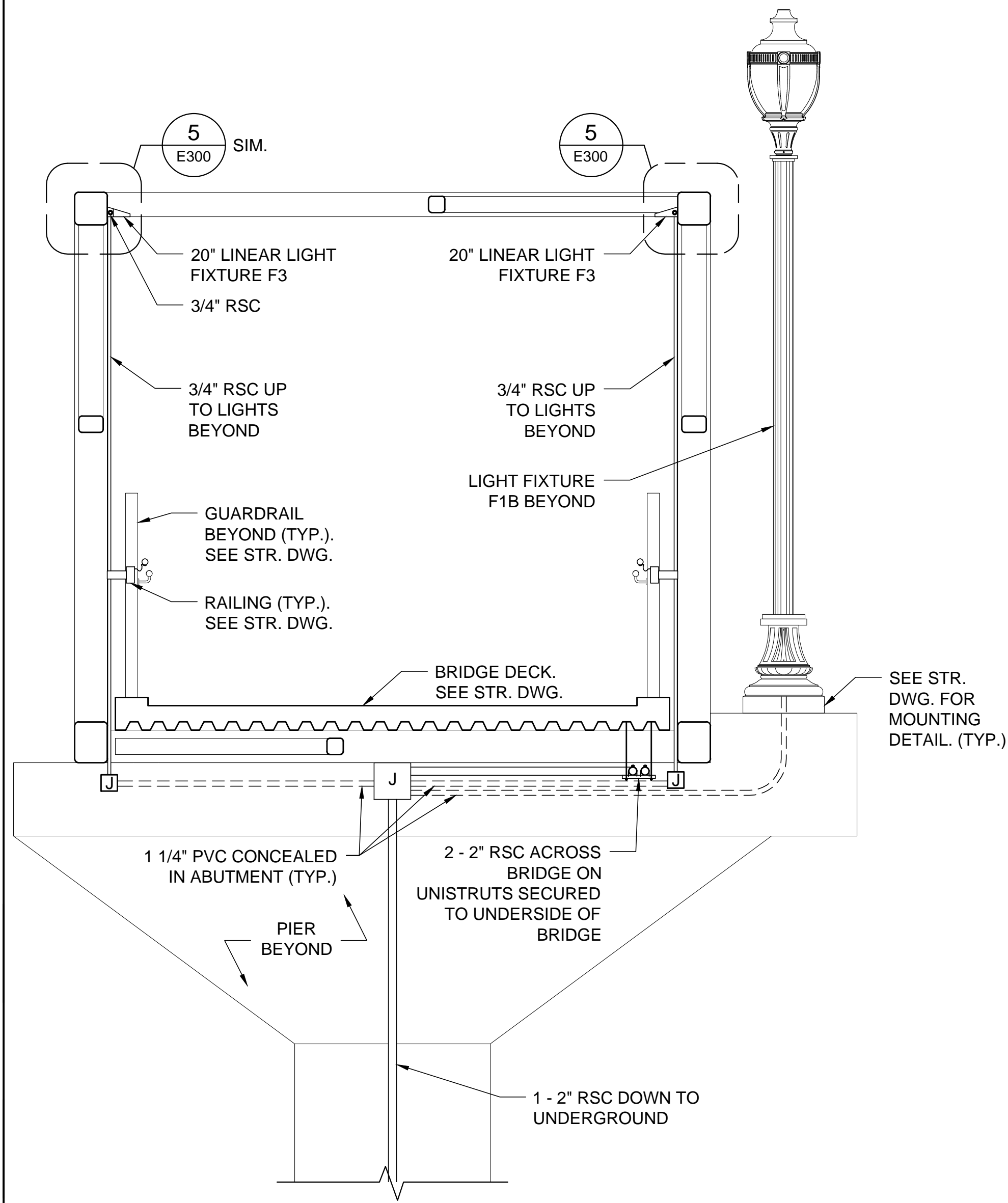
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CONTRACT NO. 61F89				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



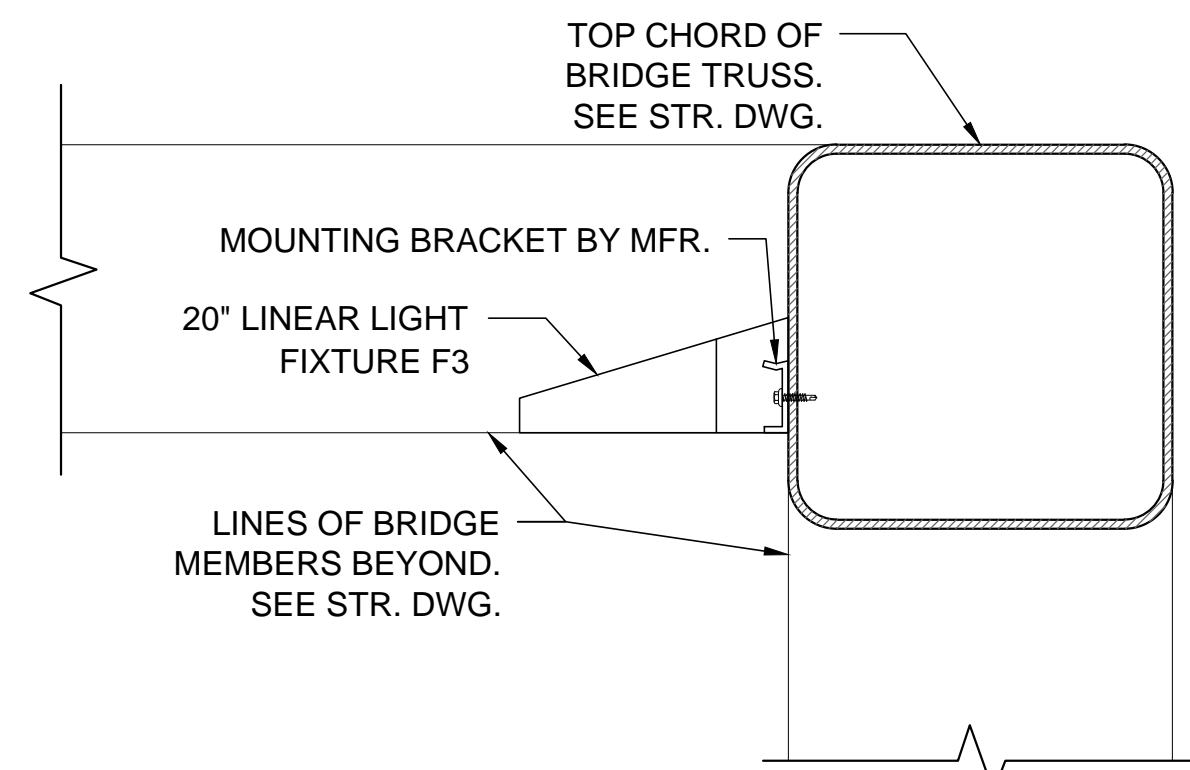
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BY	
REVISIONS	
PLANNING	
DESIGN	
CONSTRUCTION	
OPERATION	
MAINTENANCE	
NO. _____	

DATE	
BY	
REVISIONS	
PLANNING	
DESIGN	
CONSTRUCTION	
OPERATION	
MAINTENANCE	
NO. _____	

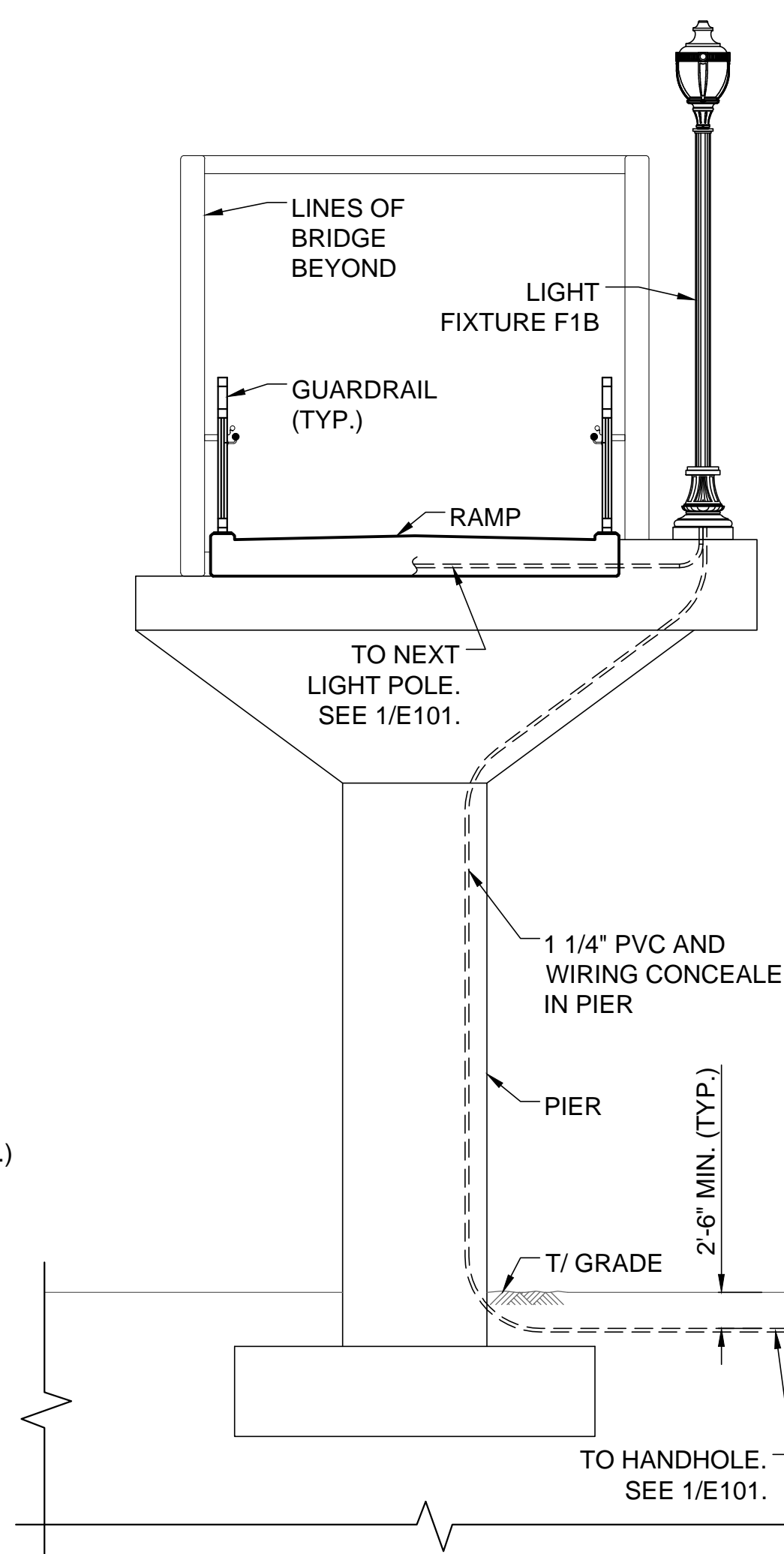
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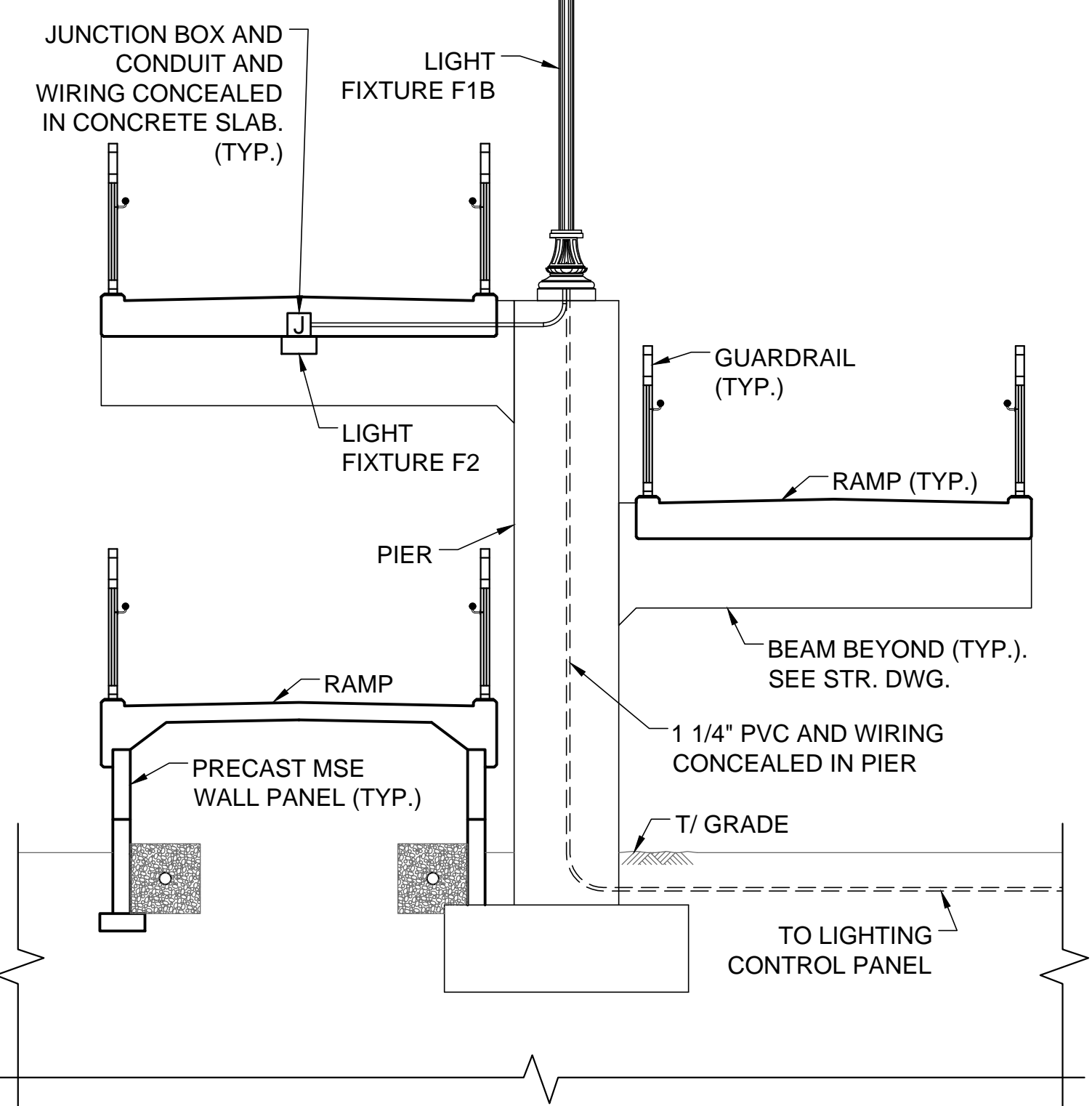
**1 SECTION - BRIDGE LIGHTING**  
 E300 SCALE: 1/2" = 1'-0"



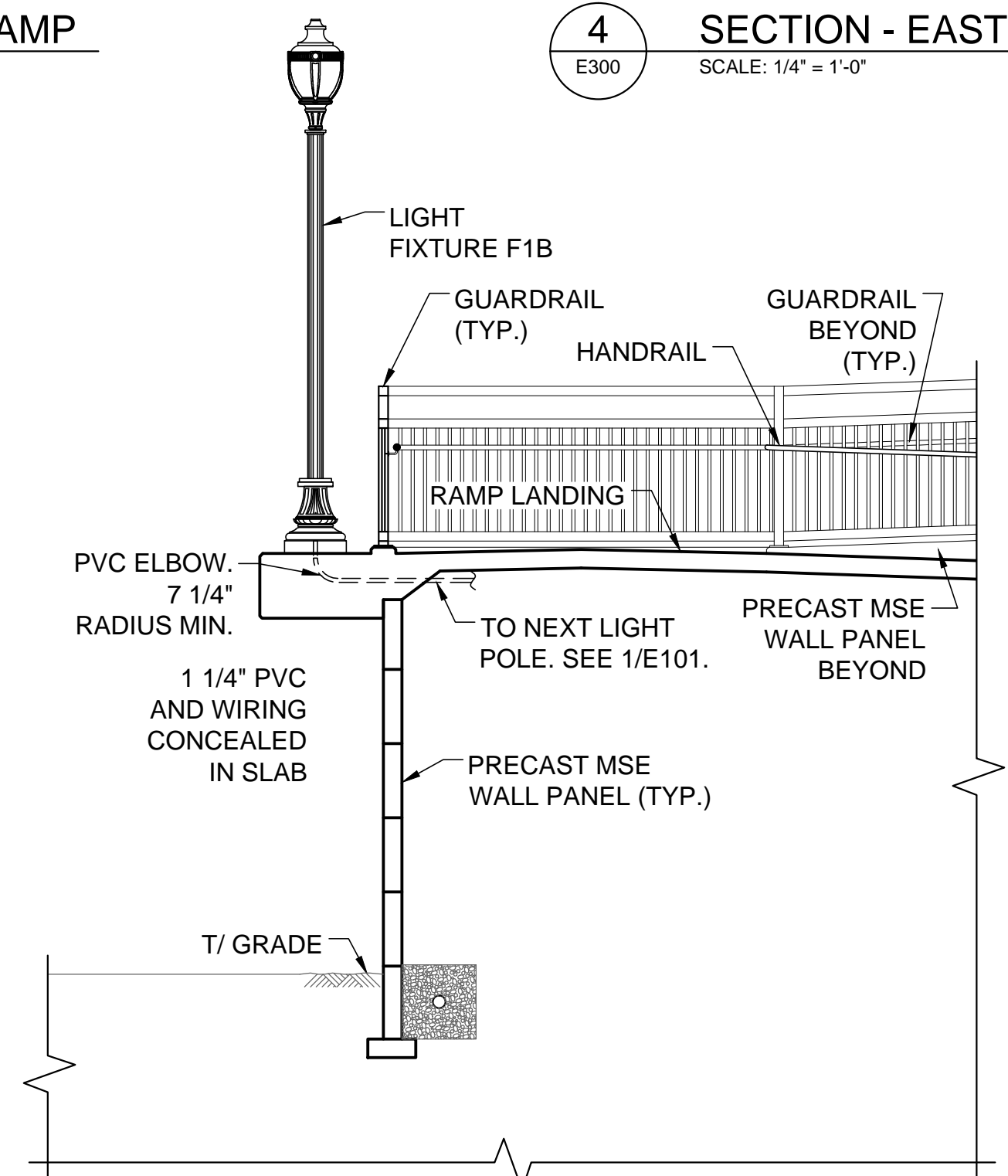
**5 FIXTURE F3 MOUNTING DETAIL**  
 E300 SCALE: 3" = 1'-0"



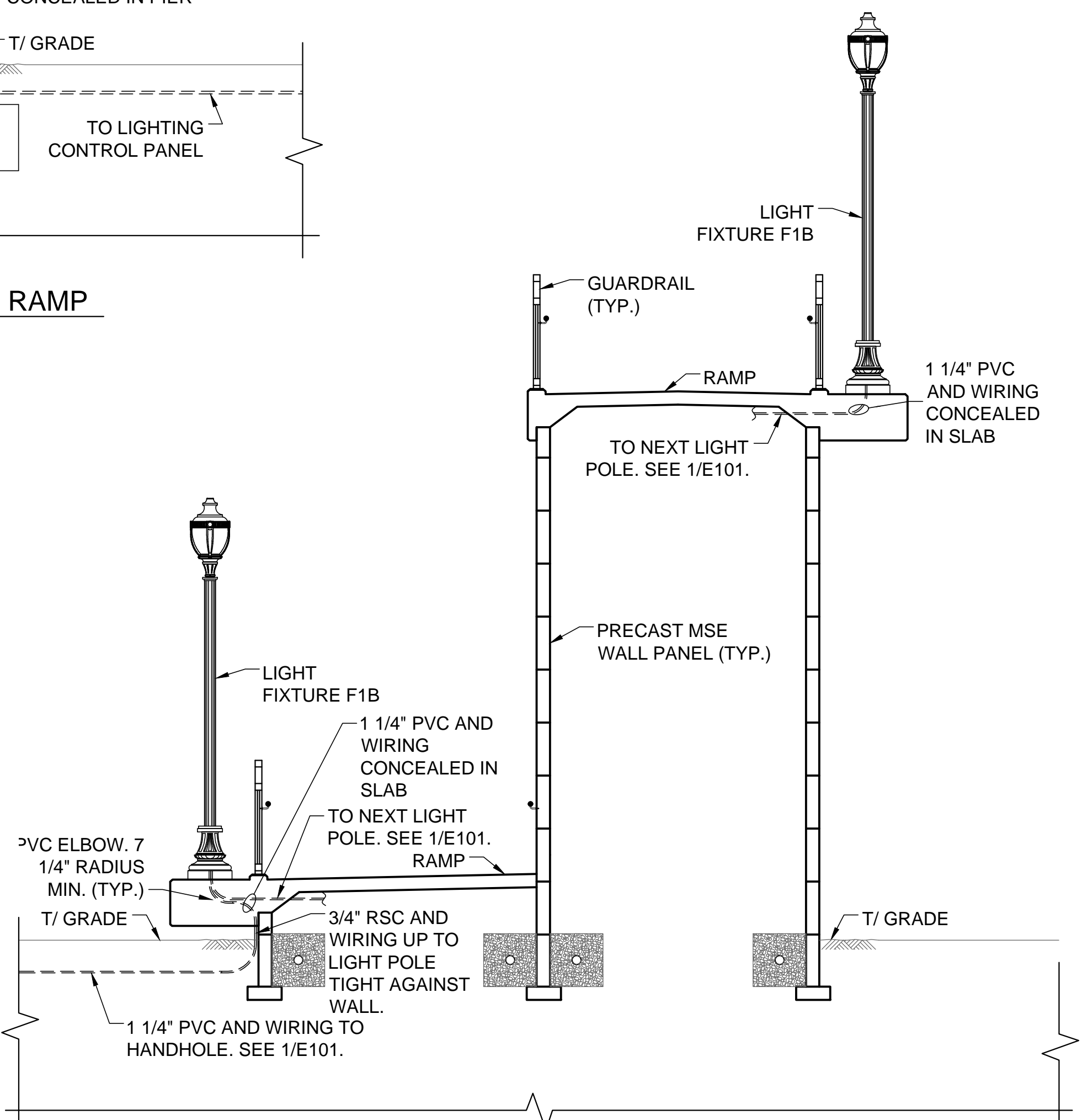
**3 SECTION - WEST RAMP**  
 E300 SCALE: 1/4" = 1'-0"



**4 SECTION - EAST RAMP**  
 E300 SCALE: 1/4" = 1'-0"



**6 SECTION - WEST RAMP - PLATFORM**  
 E300 SCALE: 1/4" = 1'-0"



**2 SECTION - WEST RAMP - MSE WALL**  
 E300 SCALE: 1/4" = 1'-0"

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CHECKED	- MK	REVISED	-
DATE	- 02-20-2020	REVISED	-

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SECTIONS	
E300	
SCALE: AS NOTED	SHEET 5 OF 7 SHEETS
STA. _____ TO STA. _____	

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61F89				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

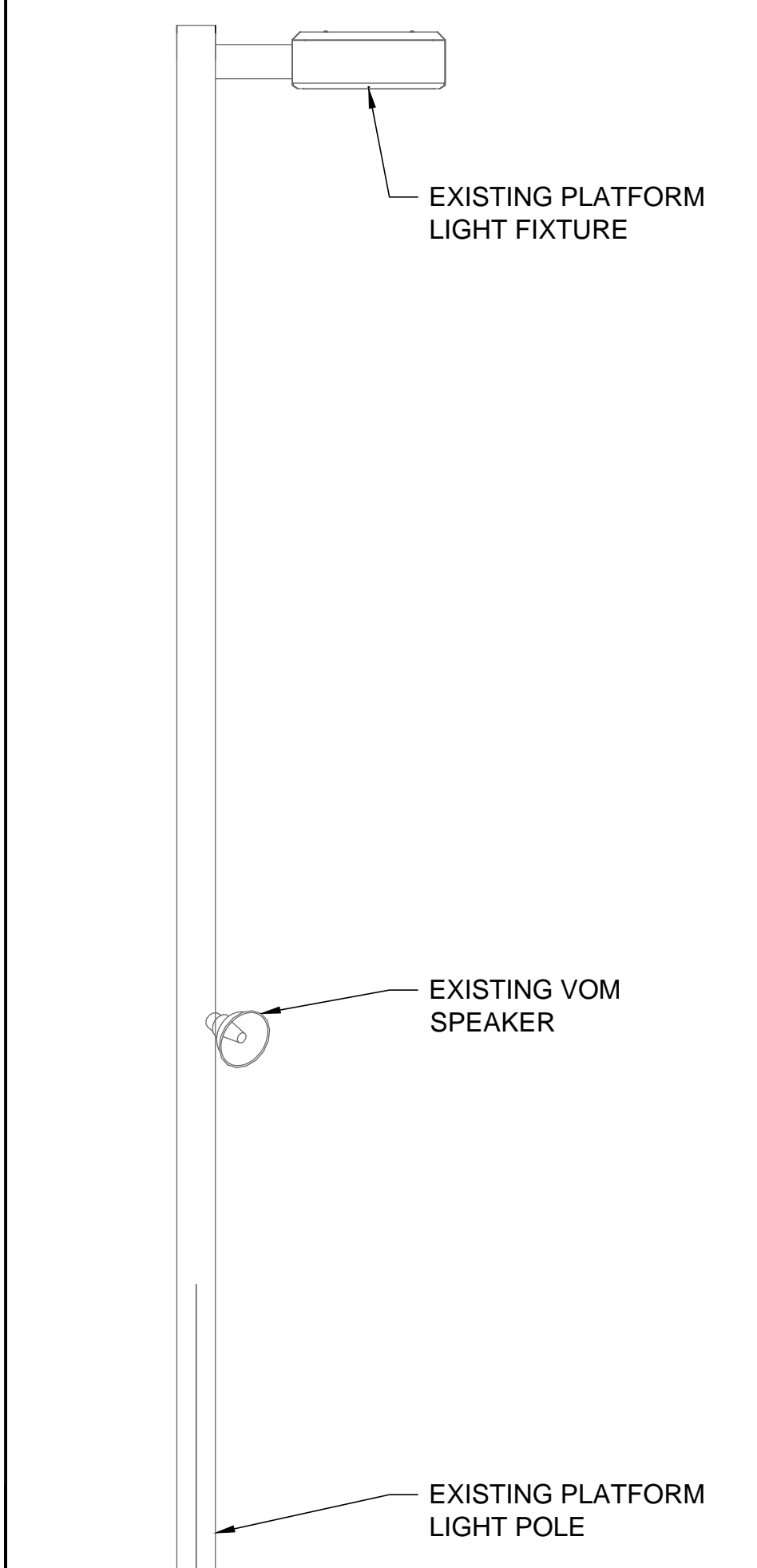




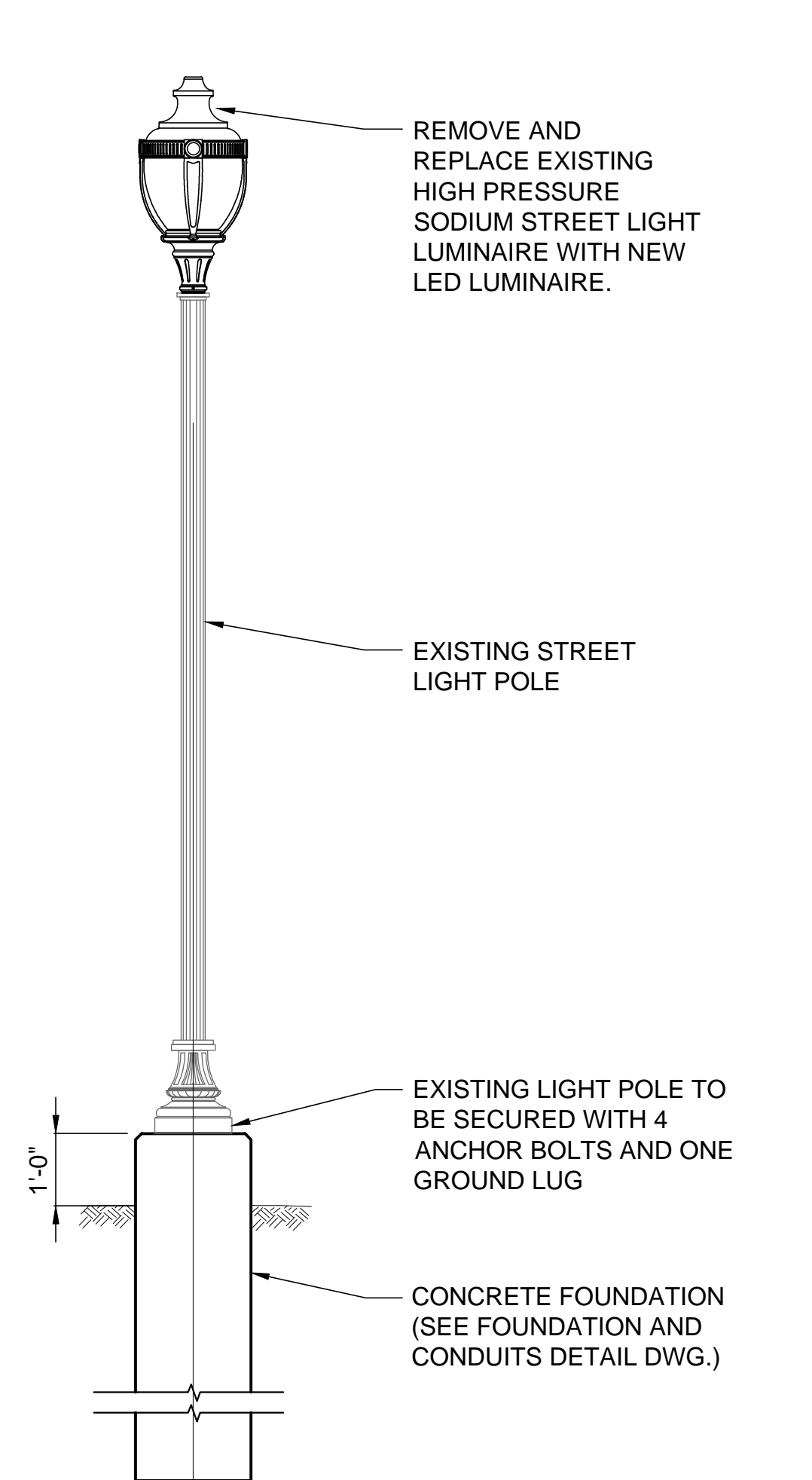
DATE	
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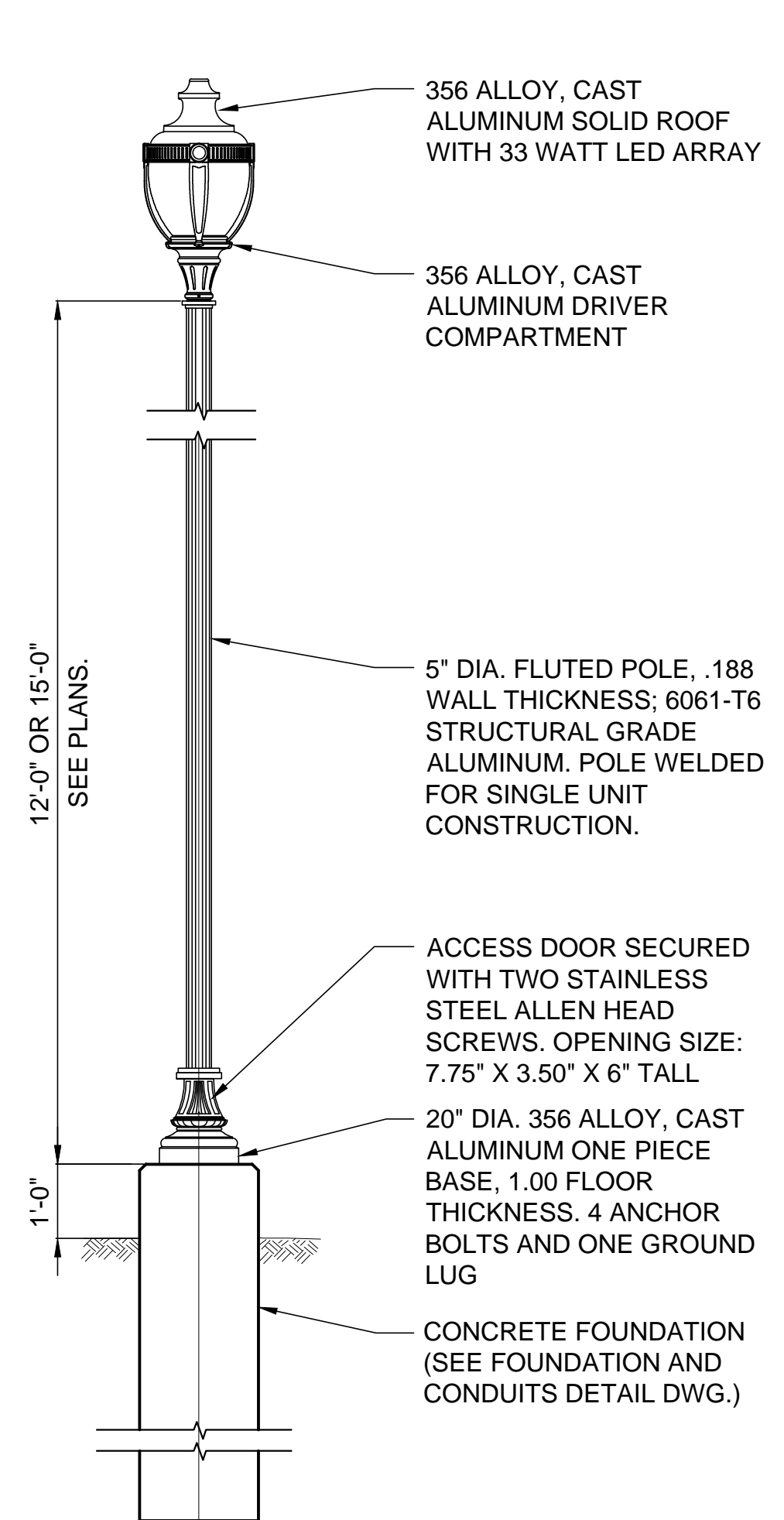
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 PEN TABLE #PENLTAB0



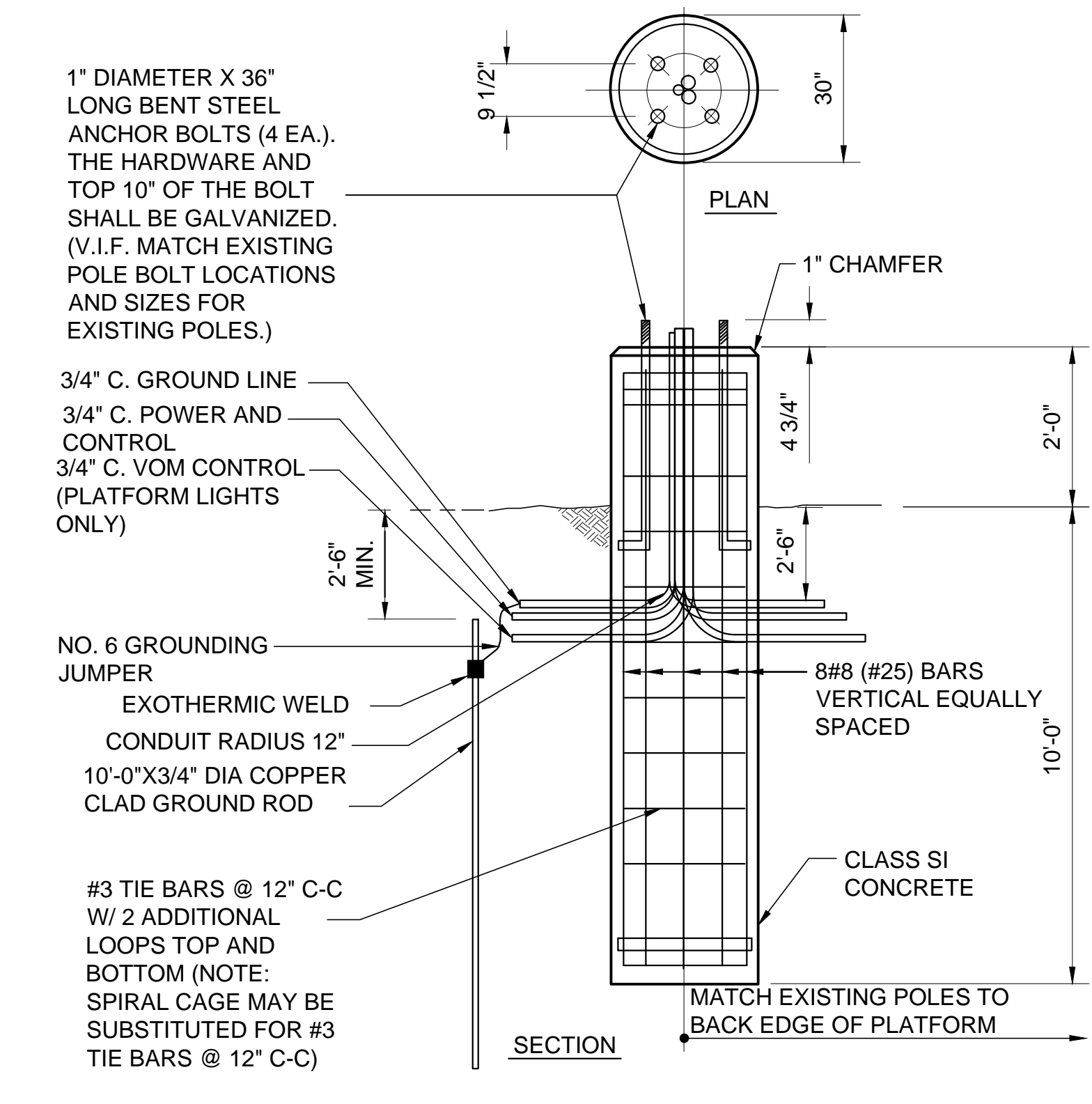
**1** EXISTING PLATFORM LIGHT POLE ON NEW FOUNDATION DETAIL  
 E501 SCALE: NOT TO SCALE



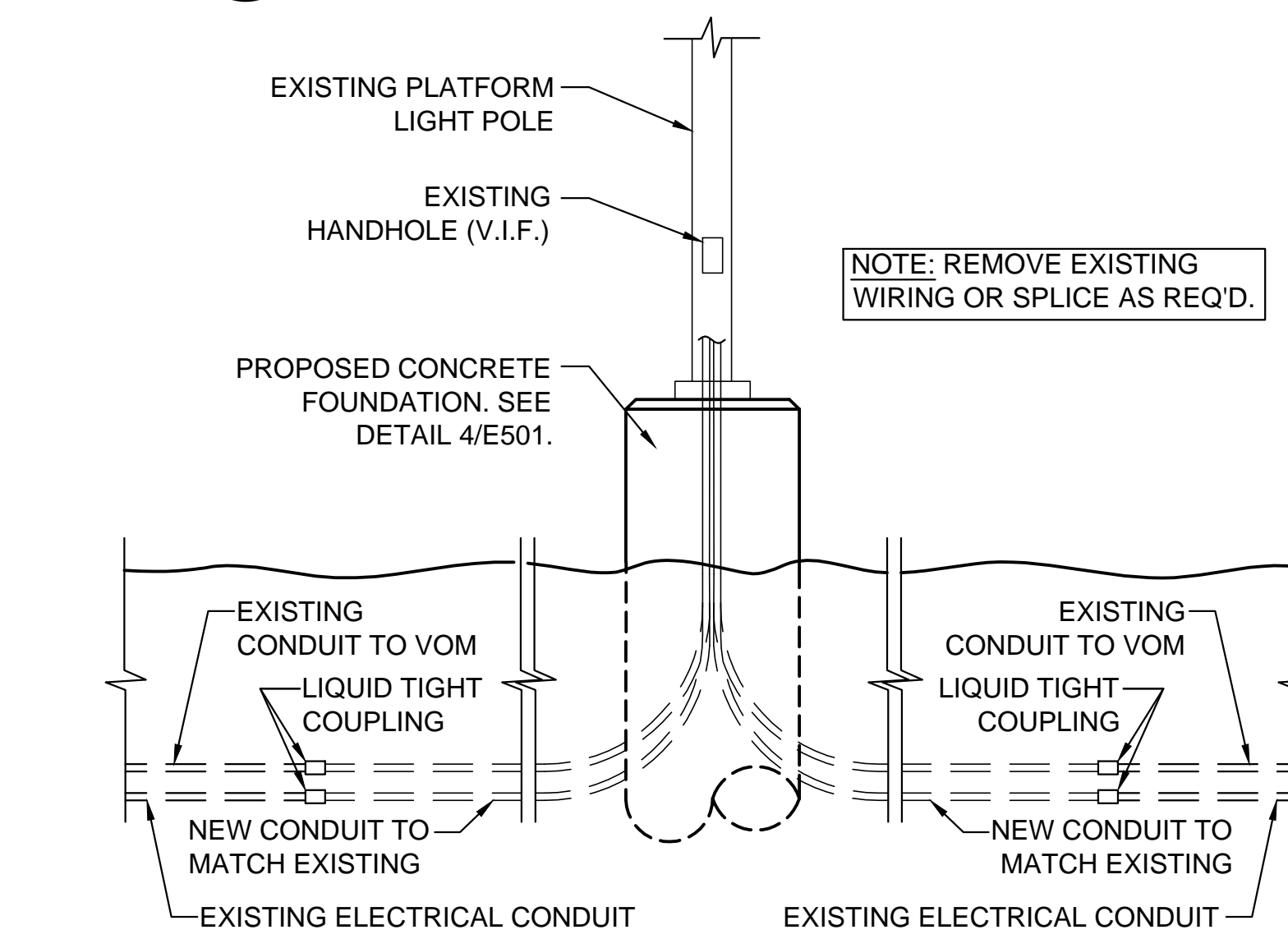
**2** EXISTING STREET LIGHT POLE ON NEW FOUNDATION DETAIL  
 E501 SCALE: NOT TO SCALE



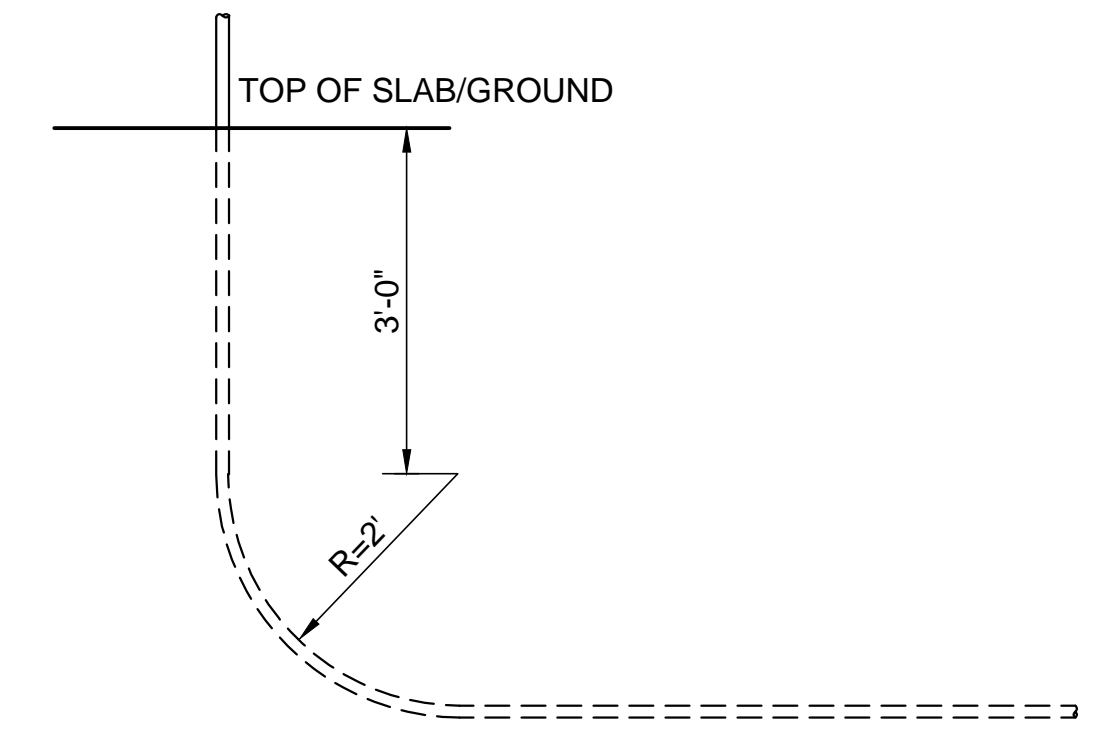
**3** PROPOSED STREET LIGHT POLE DETAIL  
 E501 SCALE: NOT TO SCALE



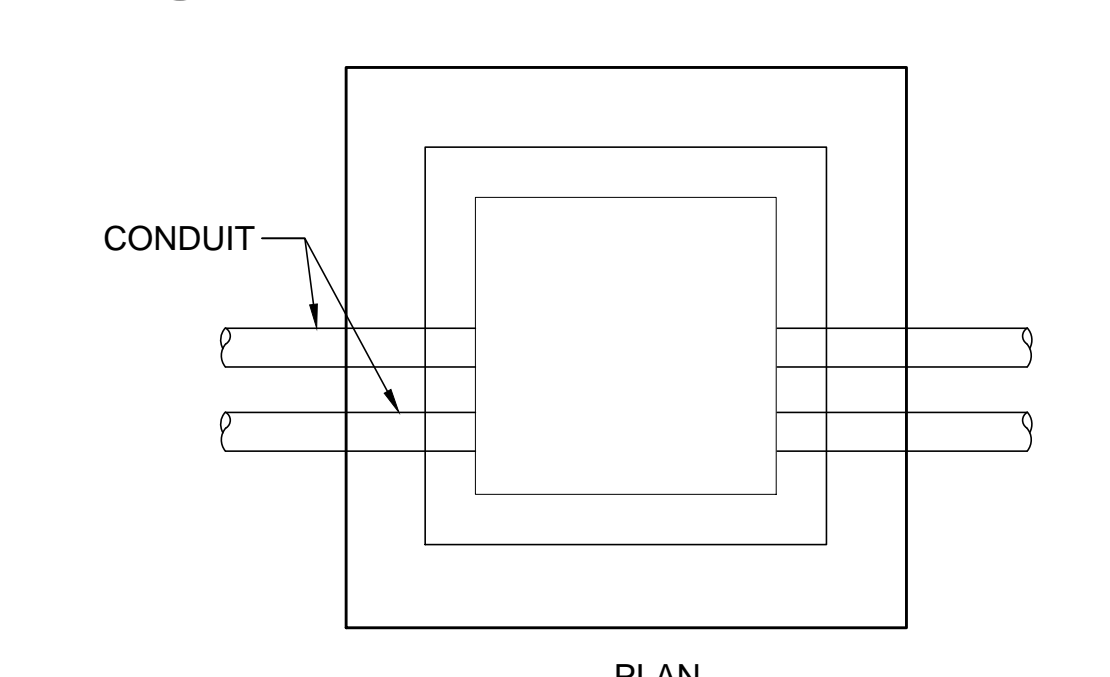
**4** LIGHT POLE FOUNDATION DETAIL  
 E501 SCALE: NOT TO SCALE



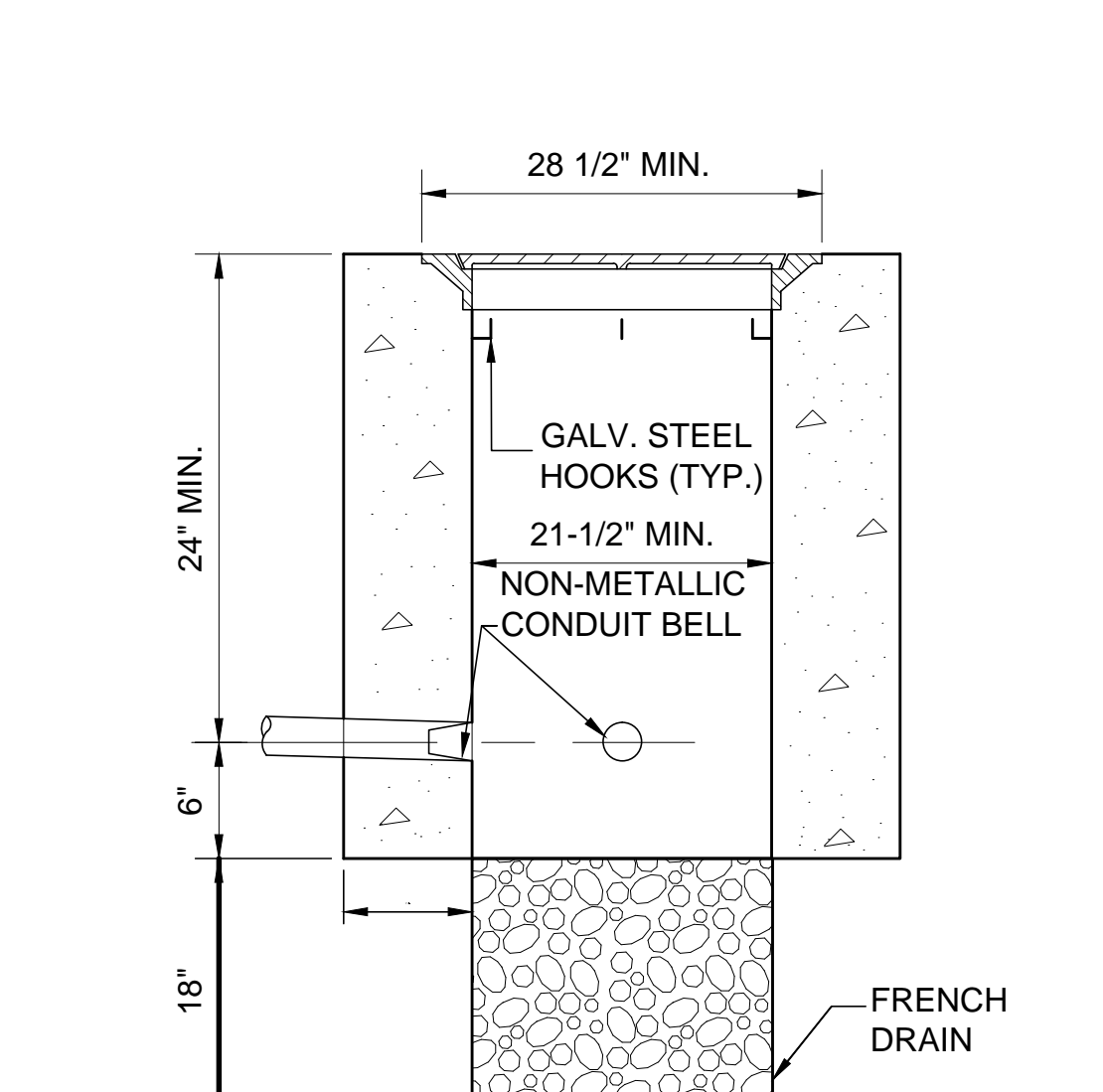
**5** PROPOSED PLATFORM LIGHT POLE FOUNDATION DETAIL  
 E501 SCALE: NOT TO SCALE



**6** CONDUIT BEND DETAIL  
 E501 SCALE: NOT TO SCALE



**7** PRECAST CONCRETE HANDHOLE DETAIL  
 E501 SCALE: NOT TO SCALE



**8** TYPICAL POWER AND CONTROL CONDUIT TRENCH DETAIL  
 E501 SCALE: NOT TO SCALE

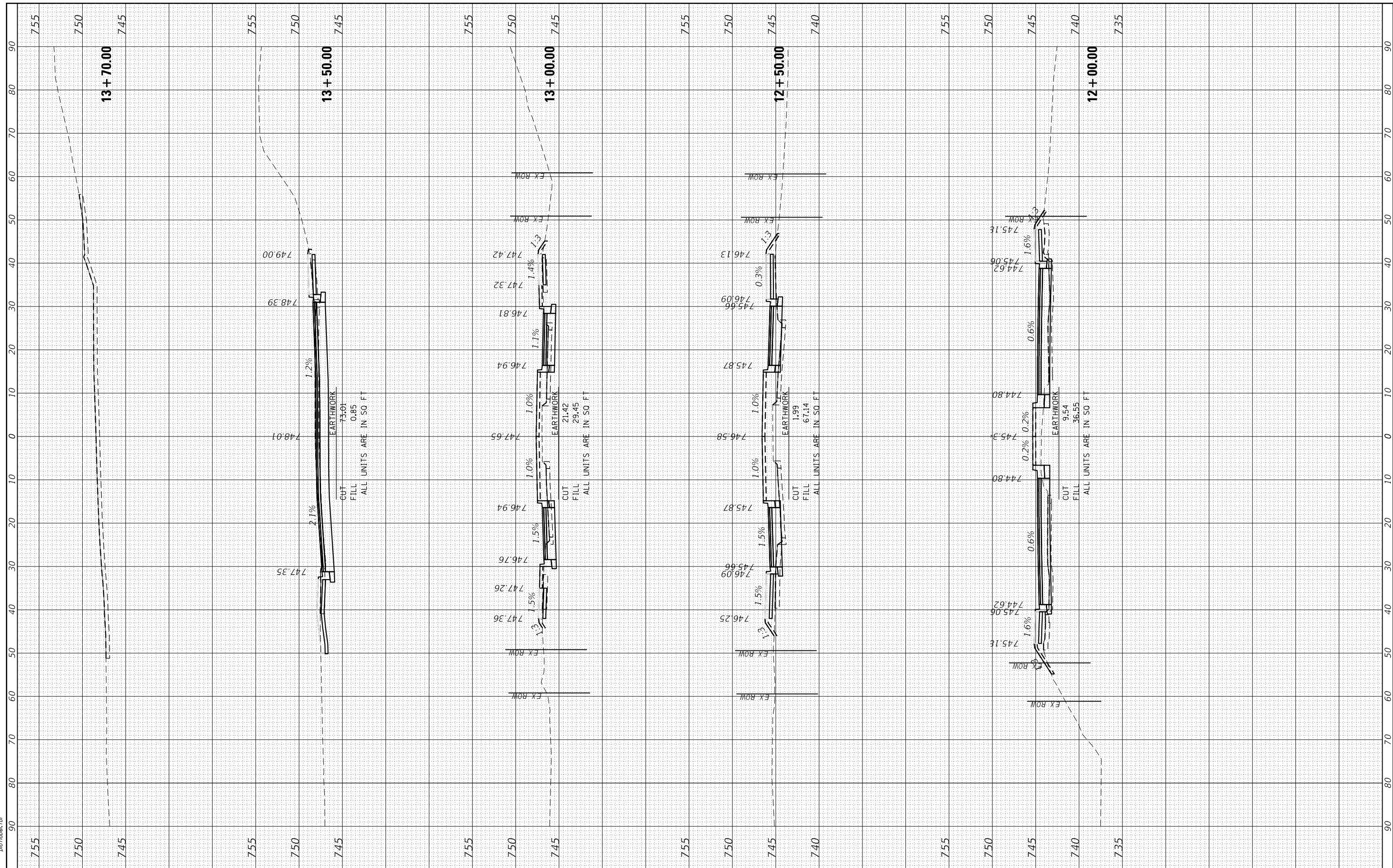
DESIGNED - JM	REVISED -
DRAWN - KH	REVISED -
CHECKED - MK	REVISED -
DATE - 02-20-2020	REVISED -

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00097-00-BR	LAKE	65	64
CONTRACT NO.				61F89
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED
NOTE BOOK NO.	PLOTTED
AREAS CHECKED	TEMPLATE
AREAS CHECKED	AREAS CHECKED

ORIGINAL SURVEY NO.	SURVEYED
NOTE BOOK NO.	PLOTTED
AREAS CHECKED	TEMPLATE
AREAS CHECKED	AREAS CHECKED

HRG PROJECT NO.: 80756  
 FILE NAME: 80756\_C11\_K-McKinley.dgn  
 PLOT DRIVER: ilplotter.plt  
 PEN TABLE: p10tbl.tbl



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USER NAME	= whoad
DESIGNED	- JJS
DRAWN	- WJH
CHECKED	- JJS
DATE	- 10/5/2020
PLOT SCALE	-
PLOT DATE	- 10/28/2020

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
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**McKINLEY AVENUE CROSS SECTIONS**  
 SCALE: 10H:5V    SHEET 1 OF 2 SHEETS    STA. 11+50.00 TO STA. 13+70.00

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00097-00-BR	LAKE	65	65
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F89	