

06-12-2020 LETTING ITEM 205

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3782 & 3783	18-00097-00-BR	COOK	52	1
ILLINOIS			CONTRACT NO. 61G33	

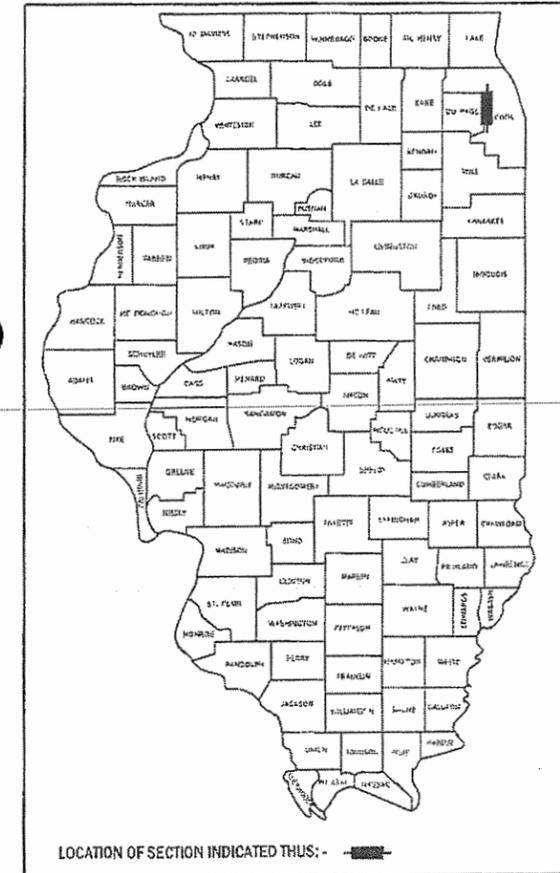
FOR INDEX OF SHEETS AND LIST OF HIGHWAY STANDARDS, REFER TO SHEET 2

TRAFFIC DATA

FUNCTIONAL CLASSIFICATION
URBAN MINOR COLLECTOR
HILLGROVE AVE ADT = 3250 (2014)
BURLINGTON AVE. ADT = 1450 (2014)

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

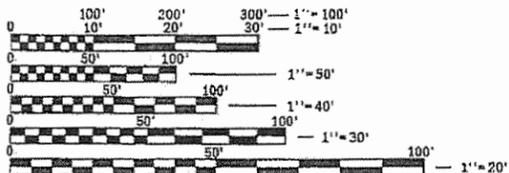
F.A.U. ROUTE 3782 (HILLGROVE AVE.) & 3783 (BURLINGTON AVE.)
AT PROSPECT AVENUE
PEDESTRIAN UNDERPASS
SECTION NO: 18-00097-00-BR
PROJECT NO: 6CI7(118)
BURLINGTON NORTHERN SANTA-FE RAILWAY
VILLAGE OF WESTERN SPRINGS
COOK COUNTY
C-91-178-18



SCHAUMBURG, IL

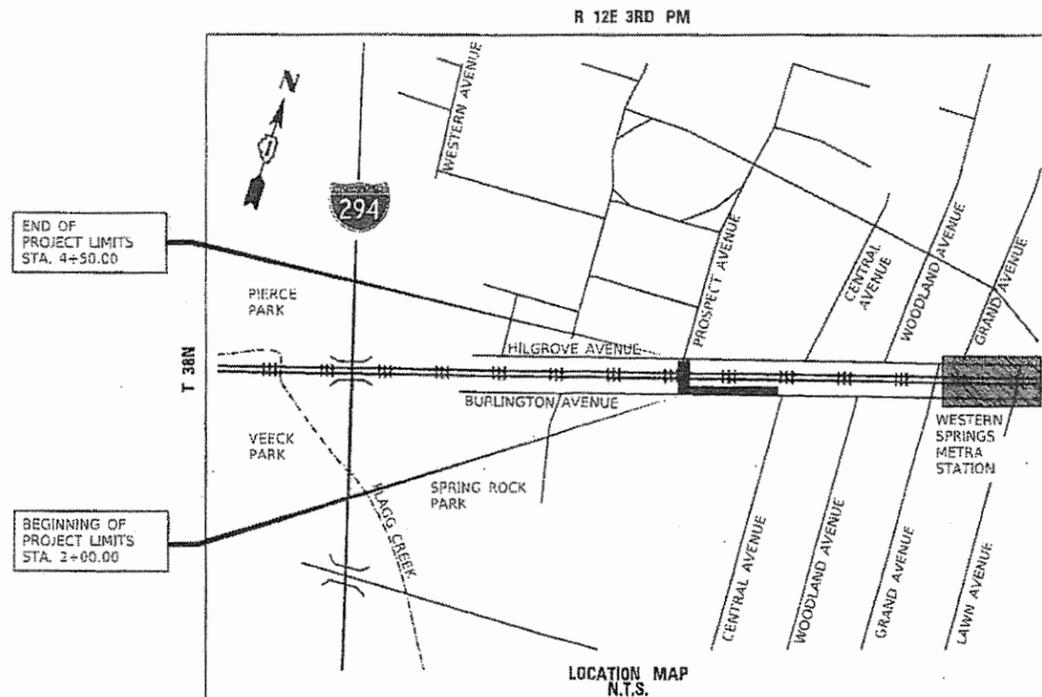
FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E.

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

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



GROSS LENGTH = 590 FT. = 0.11 MILE
NET LENGTH = 590 FT. = 0.11 MILE

FOR INFORMATION ONLY
SHEETS: 18-20, 36-42



M.D.B.
MATTHEW D. BUERGER, P.E.
SHEETS: 1-17, 23-26, 43-48



A.J.N.
ARTHUR J. NOWAK, S.E.
SHEETS: 27-35



Brian Foss
BRIAN FOSS, P.E.
SHEETS: 21-22

EPSTEIN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED 11-22 20 19
Angela Melton Village Mgr.
LOCAL AGENCY POSITION

PASSED FEB 18 20 20
C. F. [Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW February 18, 2020
Anthony J. [Signature] REGIONAL ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 61G33

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LIST OF HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
701006-05	OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS AND MARKERS)
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
821001	UNDERPASS LIGHTING WALL MOUNT
BLR 28	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

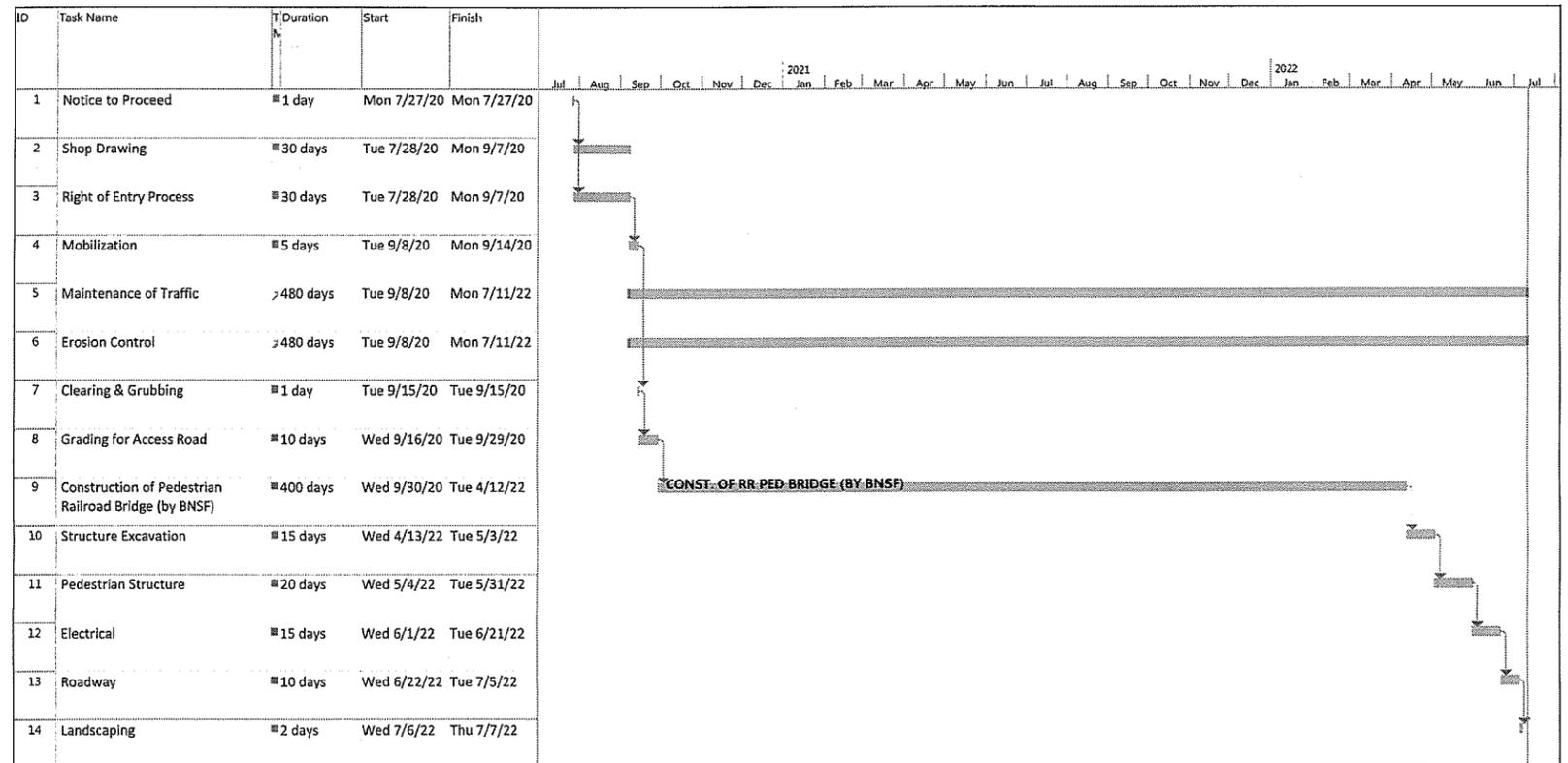
COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS PROJECT.

**PROSPECT AVENUE
PEDESTRIAN UNDERPASS
CONTRACT NO. 61G33**

GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE THE VILLAGE OF WESTERN SPRINGS AND JAMES J. BENES AND ASSOCIATES THREE (3) WORKING DAYS NOTICE PRIOR TO THE COMMENCEMENT OF THE WORK. JAMES J. BENES AND ASSOCIATES INC. IS THE REPRESENTATIVE OF THE VILLAGE OF WESTERN SPRINGS: (630) 719-7571
2. ANY SURPLUS SITE MATERIAL TO BE DISPOSED OF SHALL BE CONSIDERED NON-SPECIAL WASTE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. CONSULT THE "STATUS OF UTILITIES" SPECIFICATION FOR UTILITY INFORMATION.
4. ACCESS TO LOCAL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED DURING CONSTRUCTION.
5. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. SCALE LISTED IN TITLE BLOCK IS FOR 22" x 34" PRINTS ONLY.
6. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL REPORT ANY ENCOUNTERED DISCREPANCIES TO THE ENGINEER AT ONCE. THE CONTRACTOR SHALL TAKE DUE CARE IN ALL PHASES OF CONSTRUCTION TO PROTECT ANY UTILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED.
7. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA FREE OF DEBRIS AND/OR OBJECTIONABLE MATERIALS DURING CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE SITE DAILY FOR DEBRIS ON THE ROADWAY SURFACE.
8. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES DURING CONSTRUCTION AND SHALL REPAIR ANY DRAINAGE FACILITIES DAMAGED DURING CONSTRUCTION.
9. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE BNSF RAILWAY WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE BNSF RAILWAY TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05. AT NO TIME SHALL THE CONTRACTOR OCCUPY (PERSONNEL OR EQUIPMENT) BNSF RIGHT-OF-WAY WITHOUT WRITTEN APPROVAL OF THE RAILROAD.
10. THIS CONTRACT IS ADJACENT TO AND CONCURRENT WITH ILLINOIS TOLLWAY CONTRACT I-18-4428. WORK IDENTIFIED IN THE PLANS AS "BY CONTRACT 4428" REFERENCES THIS CONTRACT.
11. MINIMUM HORIZONTAL CLEARANCE OF 15'-0" FROM ANY PHYSICAL OBSTRUCTION TO CENTERLINE OF THE NEAREST BNSF TRACK SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. OBSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO FORMWORK, STOCKPILED MATERIALS, PARKED EQUIPMENT, AND BRACING OR OTHER CONSTRUCTION REPORTS.



SCHEDULE NOTES

1. THIS IS ONLY A SUGGESTED PROJECT SCHEDULE AND IS NOT TO BE CONSIDERED THE PROGRESS SCHEDULE AS REQUIRED. THE INTENT OF THIS SUGGESTED PROGRESS SCHEDULE IS TO ILLUSTRATE THE WORK CAN REASONABLY BE PERFORMED WITHIN THE SUGGESTED SCHEDULE DURATION.
2. IF ANY DISCREPANCIES EXIST BETWEEN THIS SUGGESTED PROGRESS SCHEDULE AND THE SPECIFICATIONS, SPECIAL PROVISIONS OR OTHER CONTRACT DRAWINGS, THE SPECIFICATIONS, SPECIAL PROVISIONS OR OTHER CONTRACT DRAWINGS SHALL GOVERN.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MANPOWER AND EQUIPMENT TO MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
4. THE SEQUENCE OF WORK DESCRIBED IN THE CONTRACTOR'S BASELINE PROGRESS SCHEDULE SHALL DESCRIBE THE PROGRESSION OF WORK ASSUMING THAT UTILITY RELOCATION WORK IN SPECIFIED LOCATIONS WILL NOT BE COMPLETED PRIOR TO THE DATES OF ANTICIPATED COMPLETION FOR EACH OF THE UTILITIES LISTED IN THE CONTRACT DOCUMENT AND WORK UNDER THIS CONTRACT WILL NOT BEGIN IN THOSE LOCATIONS PRIOR TO THESE DATES. (SEE SPECIAL PROVISIONS).
5. FOR HOLIDAY WORK RESTRICTIONS, SEE ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS.

	DESIGNED - MET	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS		F.A.U. RTE. 3782 & 3783	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - MET	REVISED -		GENERAL NOTES, INDEX OF SHEETS, & LIST OF STATE STANDARDS			18-00097-00-BR	COOK	52	2
	CHECKED - JAP	REVISED -		SCALE: N.T.S. SHEET 1 OF 1 SHEETS			CONTRACT NO. 61G33			
	DATE - 02-11-2020	REVISED -		ILLINOIS FED. AID PROJECT						

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 0004	TRAINEES 0042
				SURFACE TRANS PRGM URBAN (STU) 75% FEDERAL / 25% VILLAGE OF WESTERN SPRINGS	
Δ 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	66	66	
20101000	TEMPORARY FENCE	FOOT	1019	1019	
Δ 20101200	TREE ROOT PRUNING	EACH	5	5	
20200100	EARTH EXCAVATION	CU YD	1091	1091	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	273	273	
20900110	POROUS GRANULAR BACKFILL	CU YD	25	25	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	4156	4156	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	378	378	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	8	8	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	8	8	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	8	8	
25200110	SODDING, SALT TOLERANT	SQ YD	378	378	
25200200	SUPPLEMENTAL WATERING	UNIT	10	10	
28000400	PERIMETER EROSION BARRIER	FOOT	879	879	
28000510	INLET FILTERS	EACH	6	6	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 0004	TRAINEES 0042
				SURFACE TRANS PRGM URBAN (STU) 75% FEDERAL / 25% VILLAGE OF WESTERN SPRINGS	
28001000	AGGREGATE (EROSION CONTROL)	TON	28	28	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	388	388	
35100110	AGGREGATE BASE COURSE, TYPE A	CU YD	1031	1031	
35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	422	422	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	667	667	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	201	201	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	226	226	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	51	51	
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	48	48	
40701861	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9"	SQ YD	48	48	
42001300	PROTECTIVE COAT	SQ YD	405	405	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2672	2672	
42400800	DETECTABLE WARNINGS	SQ FT	50	50	
44000100	PAVEMENT REMOVAL	SQ YD	581	581	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	532	532	

Δ SPECIALTY ITEMS



DESIGNED - MET	REVISED -
DRAWN - MET	REVISED -
CHECKED - JAP	REVISED -
DATE - 02-11-2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 1 OF 3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3782 & 3783	18-00097-00-BR	COOK	52	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61633	

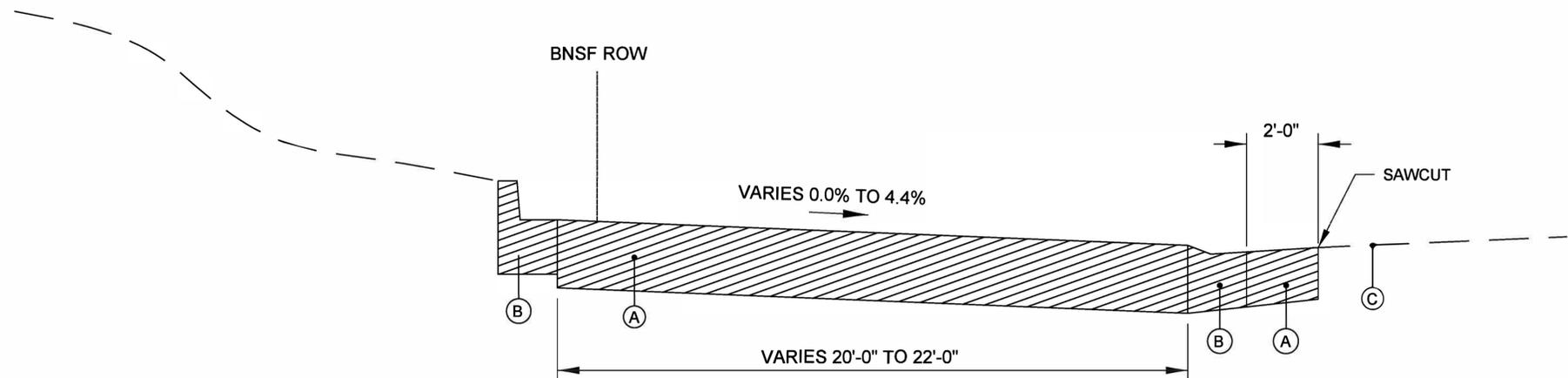
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				SURFACE TRANS PRGM URBAN (STU)	
				ROADWAY 0004	TRAINEES 0042
44000600	SIDEWALK REMOVAL	SQ FT	1961	1961	
50200100	STRUCTURE EXCAVATION	CU YD	1018	1018	
50300225	CONCRETE STRUCTURES	CU YD	50	50	
50300300	PROTECTIVE COAT	SQ YD	328	328	
50500505	STUD SHEAR CONNECTORS	EACH	264	264	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8990	8990	
50800515	BAR SPLICERS	EACH	36	36	
Δ 50901760	PIPE HANDRAIL	FOOT	127	127	
51100100	SLOPE WALL 4 INCH	SQ YD	155	155	
52200100	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	656	656	
52200150	DRIVING SOLDIER PILES	FOOT	656	656	
52200250	UNTREATED TIMBER LAGGING	SQ FT	2418	2418	
52200800	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	350	350	
52200900	CONCRETE STRUCTURE (RETAINING WALL)	CU YD	66.5	66.5	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	200	200	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				SURFACE TRANS PRGM URBAN (STU)	
				ROADWAY 0004	TRAINEES 0042
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	325	325	
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1	
60600605	CONCRETE CURB, TYPE B	FOOT	86	86	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	533	533	
Δ 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2331	2331	
Δ 66900400	SPECIAL WASTE GROUNDWATER DISPOSAL	GALLON	5000	5000	
Δ 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
Δ 66900535	PRIORITY POLLUTANTS GROUNDWATER ANALYSIS	EACH	1	1	
Δ 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
Δ 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
Δ 66901006	REGULATED SUBSTANCES MONITORING	CAL DAY	30	30	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	32	32	
67100100	MOBILIZATION	L SUM	1	1	
Δ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	391	391	
Δ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	108	108	

Δ SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 0004	TRAINEES 0042					ROADWAY 0004	TRAINEES 0042
△ 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1		△ X8211000	UNDERPASS LUMINAIRE (SPECIAL)	EACH	12	12	
△ 81028170	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1" DIA.	FOOT	326	326		△ XX005604	HAND DIGGING, 0 FT TO 5 FT IN UNPAVED AREAS	CU YD	35	35	
△ 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	33	33		Z0001202	CONCRETE BLOCK REMOVAL	CU YD	4	4	
△ 81301340	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE 18"X4"X10"	EACH	2	2		Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
△ 81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	1011	1011		Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
△ 81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	66	66		Z0076600	TRAINEES	HOURL	1000		1000
△ 82500335	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 100AMP	EACH	1	1		Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	1000		1000
△ 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	40	40							
△ X0322227	CLOSED CIRCUIT TELEVISION CAMERA SYSTEM	EACH	1	1							
△ X0326498	GFCI 20 AMP DUPLEX RECEPTACLE	EACH	2	2							
△ X0326654	ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	4	4							
△ X0326899	SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	2	2							
X2010510	CLEARING AND GRUBBING	L SUM	1	1							
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1							

△ SPECIALTY ITEMS



**EXISTING BURLINGTON AVE SECTION
STA 118+48 TO STA 120+85**

EXISTING LEGEND

- (A) 12" PAVEMENT REMOVAL
- (B) COMBINATION CURB AND GUTTER REMOVAL
- (C) EXISTING PAVEMENT TO REMAIN OR REMOVED PER 4428 CONTRACT

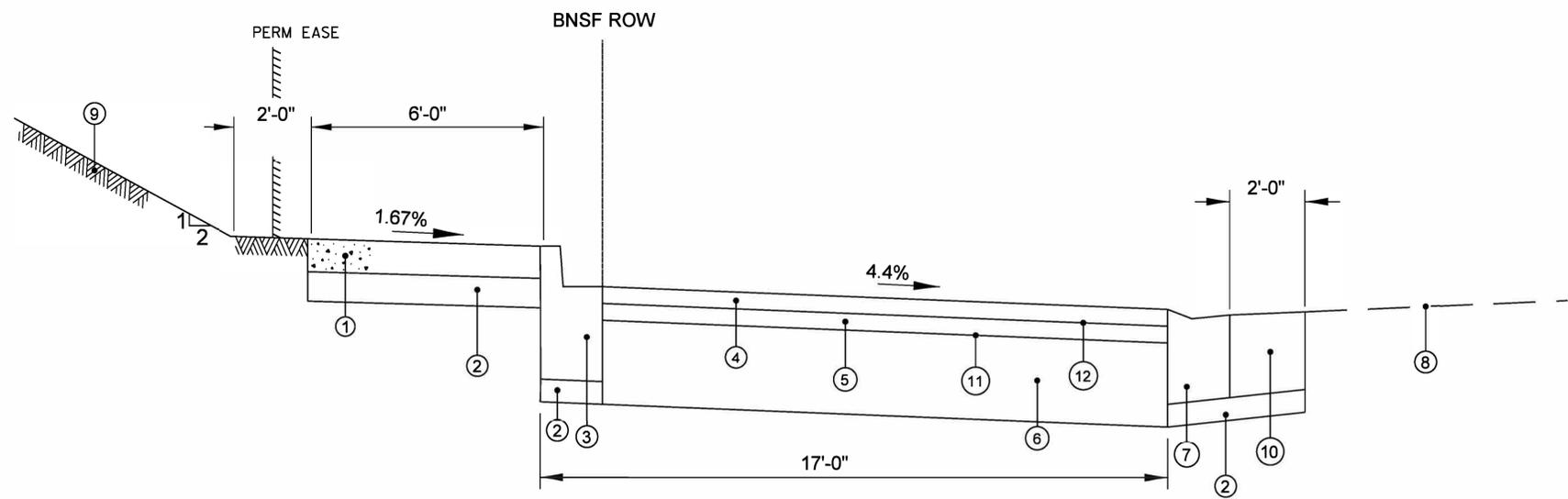
EXISTING PAVEMENT AND CURB TO BE REMOVED

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ NDES
FULL DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", 1L-9.5, N70 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N70 7"	4% @ 70 GYR.
PARKING STALLS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", 1L-9.5, N70 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N70 2 1/4"	4% @ 70 GYR.

- NOTES:
- THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LB/SY-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 DISTRICT ONE SPECIAL PROVISIONS.
 - FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

PROPOSED LEGEND

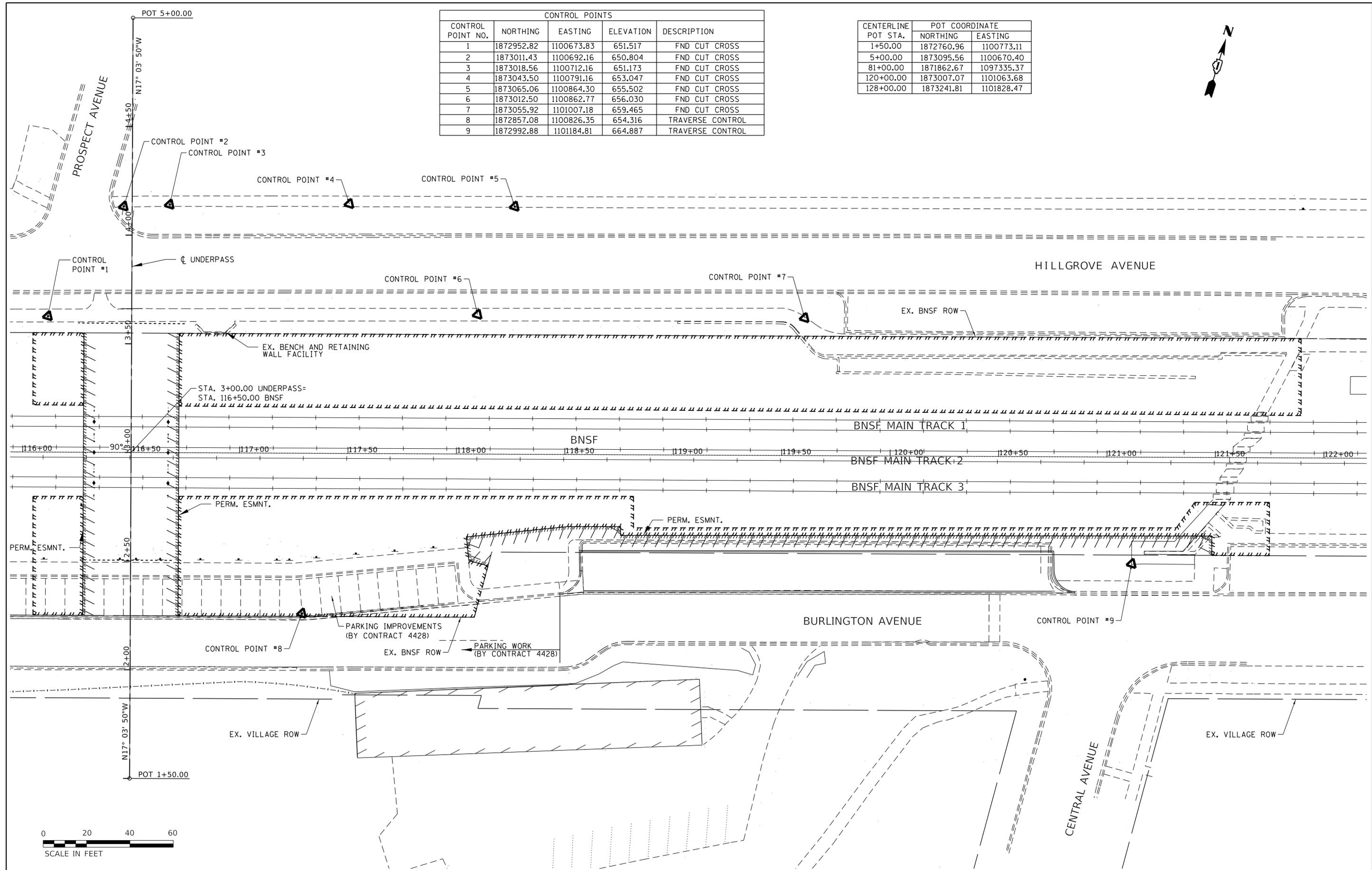
- (1) PORTLAND CEMENT CONCRETE SIDEWALK 5"
- (2) SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- (3) COMBINATION CURB AND GUTTER, TYPE-B6.12 - REVERSE PITCH
- (4) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"
- (5) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- (6) AGGREGATE BASE COURSE, TYPE B 12"
- (7) COMBINATION CURB AND GUTTER, TYPE-B6.12 - DEPRESSED CURB
- (8) EXISTING PAVEMENT TO REMAIN OR REMOVED PER 4428 CONTRACT
- (9) TOPSOIL FURNISH AND PLACE, 4"; SODDING, SALT TOLERANT
- (10) HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9"
- (11) BITUMINOUS MATERIALS (PRIME COAT)
- (12) BITUMINOUS MATERIALS (TACK COAT)



**PROPOSED BURLINGTON AVE SECTION
STA 118+48 TO STA 120+85**

CONTROL POINTS				
CONTROL POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1872952.82	1100673.83	651.517	FND CUT CROSS
2	1873011.43	1100692.16	650.804	FND CUT CROSS
3	1873018.56	1100712.16	651.173	FND CUT CROSS
4	1873043.50	1100791.16	653.047	FND CUT CROSS
5	1873065.06	1100864.30	655.502	FND CUT CROSS
6	1873012.50	1100862.77	656.030	FND CUT CROSS
7	1873055.92	1101007.18	659.465	FND CUT CROSS
8	1872857.08	1100826.35	654.316	TRAVERSE CONTROL
9	1872992.88	1101184.81	664.887	TRAVERSE CONTROL

CENTERLINE POT STA.	POT COORDINATE	
	NORTHING	EASTING
1+50.00	1872760.96	1100773.11
5+00.00	1873095.56	1100670.40
81+00.00	1871862.67	1097335.37
120+00.00	1873007.07	1101063.68
128+00.00	1873241.81	1101828.47



M
MOTT
MACDONALD

DESIGNED -	JAV	REVISED -	
DRAWN -	SHR	REVISED -	
CHECKED -	RDC	REVISED -	
DATE -	02-11-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
ALIGNMENT AND BENCHMARKS

SCALE: 1"=20' SHEET 1 OF 1 SHEETS

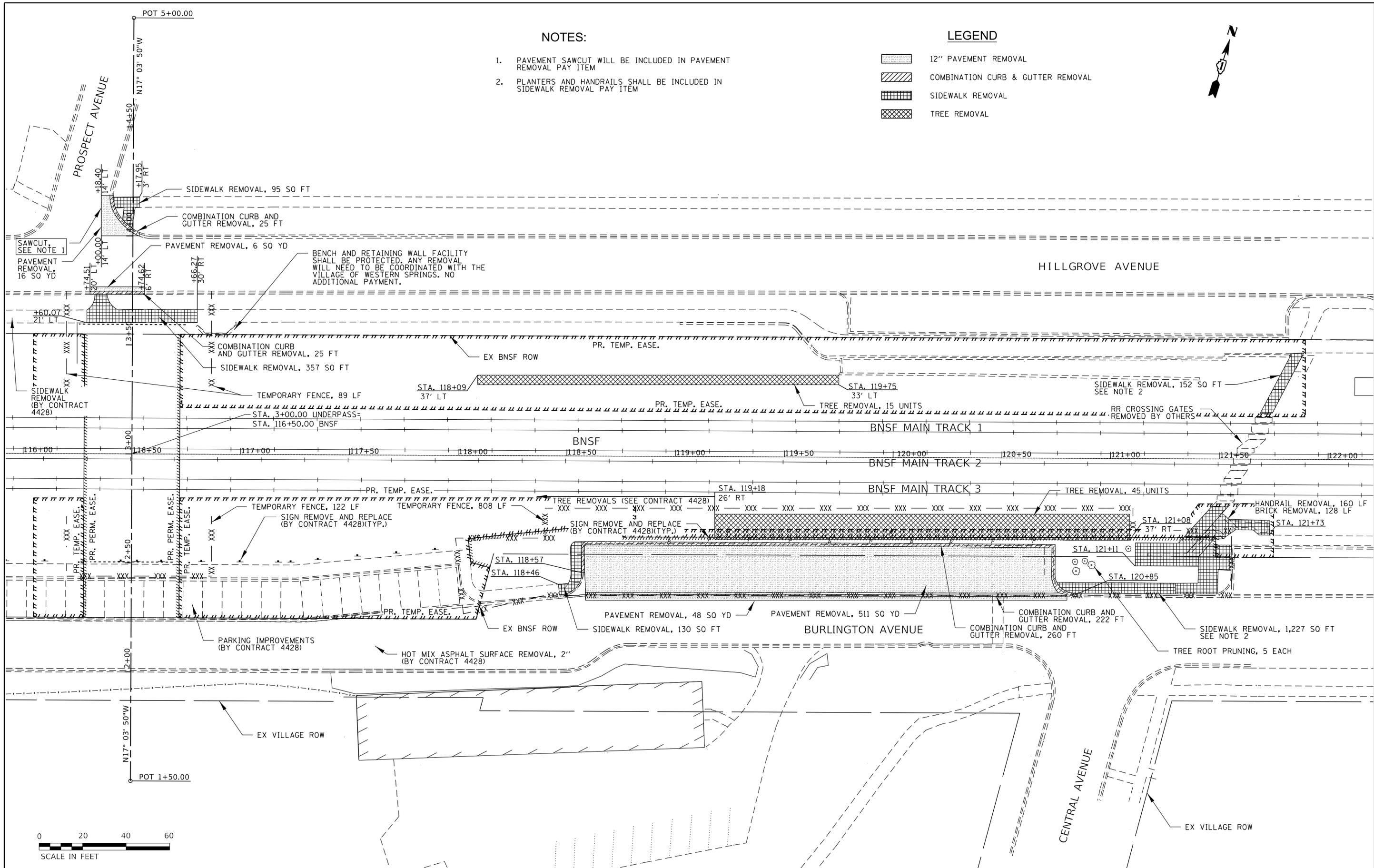
F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 7
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				

NOTES:

- PAVEMENT SAWCUT WILL BE INCLUDED IN PAVEMENT REMOVAL PAY ITEM
- PLANTERS AND HANDRAILS SHALL BE INCLUDED IN SIDEWALK REMOVAL PAY ITEM

LEGEND

-  12" PAVEMENT REMOVAL
-  COMBINATION CURB & GUTTER REMOVAL
-  SIDEWALK REMOVAL
-  TREE REMOVAL



M
MOTT
MACDONALD

DESIGNED -	JAV	REVISED -
DRAWN -	SHR	REVISED -
CHECKED -	RDC	REVISED -
DATE -	02-11-2020	REVISED -

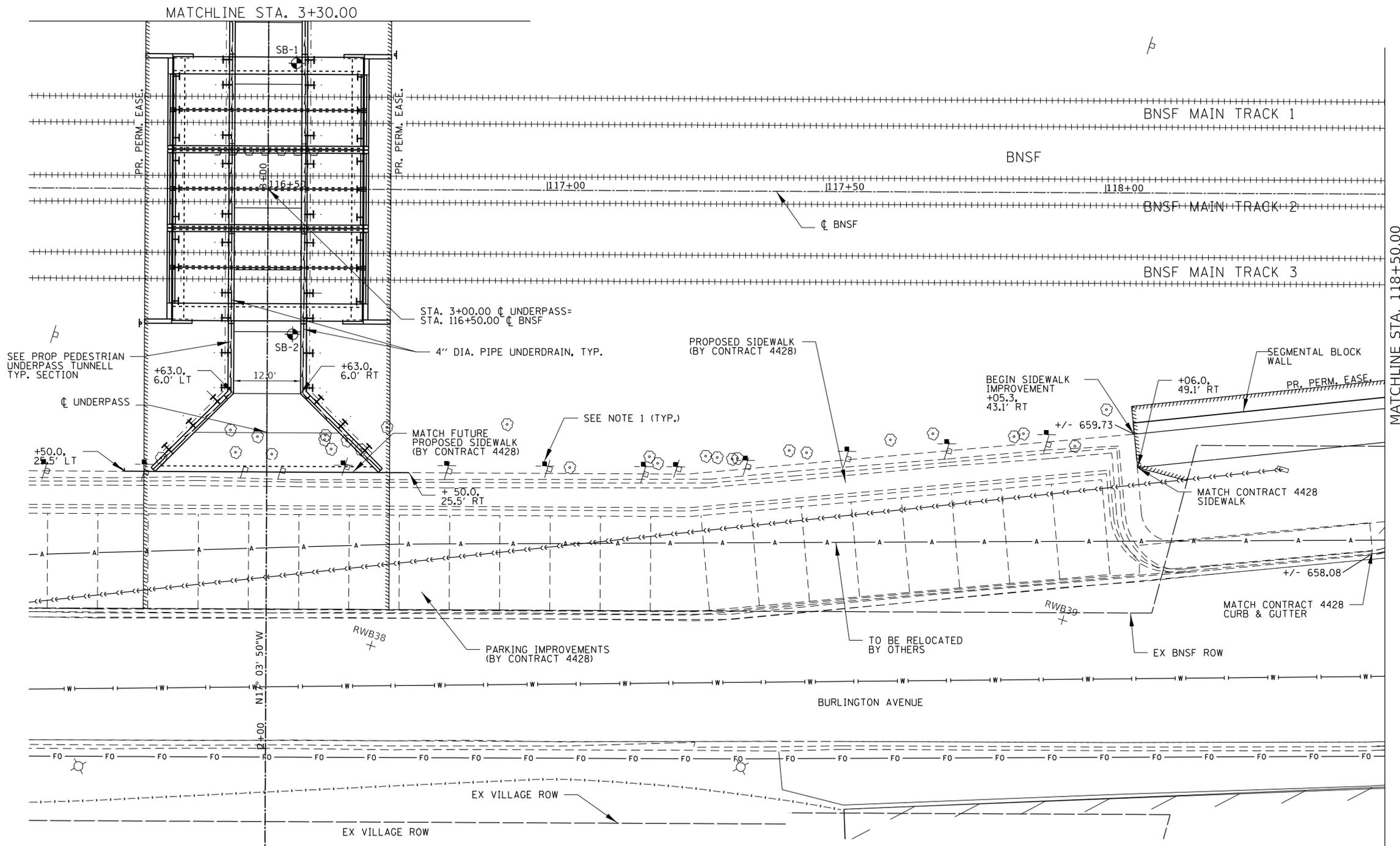
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
REMOVAL PLAN**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS

F.A.U. R.T.E. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 8
CONTRACT NO. 61G33				

ILLINOIS FED. AID PROJECT



NOTES:

1. COORDINATE WITH WESTERN SPRINGS FOR SIGN LOCATIONS
2. REFER TO LIGHTING PLAN ON SHEET 22 FOR PROPOSED LIGHTING CONTROLLER.
3. REFER TO CCTV PLAN ON SHEETS 23-26 OR PROPOSED CCTV CONTROLLER



LEGEND:

	EXISTING GAS MAIN		EXISTING COMBINED SEWER
	EXISTING AERIAL LINE		EXISTING STORM SEWER
	EXISTING UNDERGROUND ELECTRIC LINE		EXISTING WATER MAIN
	EXISTING UNDERGROUND FIBER OPTIC LINE		EXISTING UNDERGROUND TELEPHONE LINE
			EXISTING UNDERGROUND CABLE TELEVISION FIBER

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DESIGNED - JAV
DRAWN - SHR
CHECKED - RDC
DATE - 02-11-2020

REVISED -
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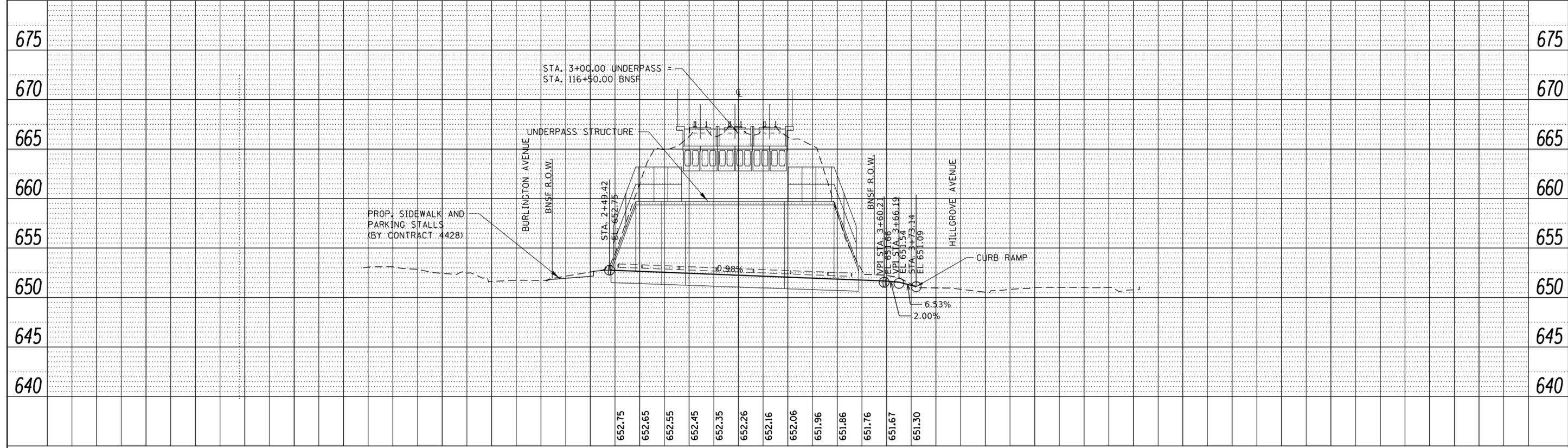
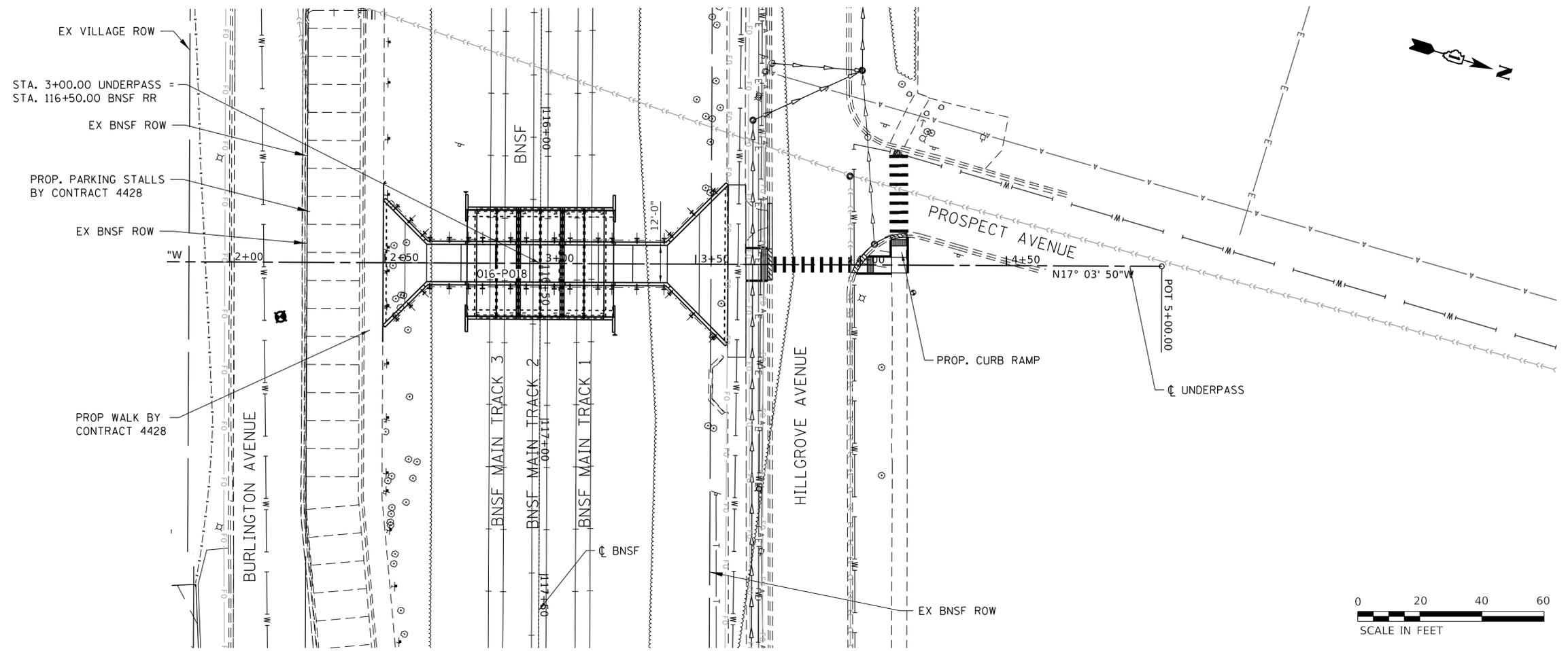
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
SITE PLAN AND UTILITY - BURLINGTON AVENUE**

SCALE: 1"=10' SHEET 2 OF 3 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 10
CONTRACT NO. 61G33				

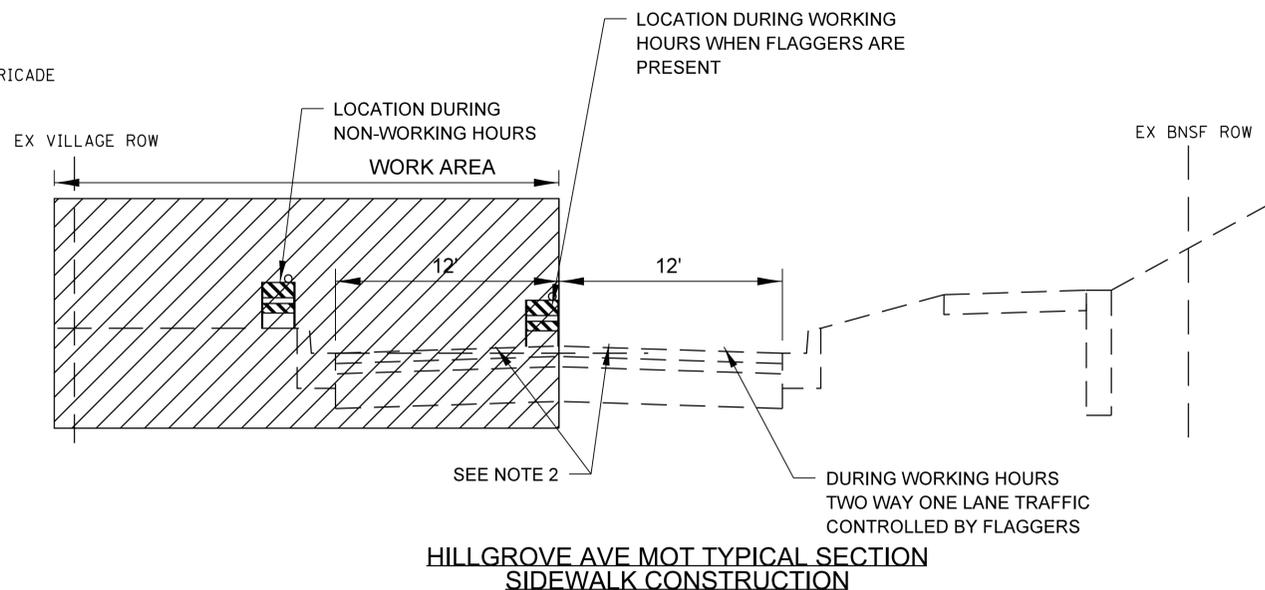
ILLINOIS FED. AID PROJECT



	DESIGNED - JAV	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS PLAN AND PROFILE	F.A.U. RTE. 3782 & 3783	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - SHR	REVISIED -				18-00097-00-BR	COOK	52	12
	CHECKED - RDC	REVISIED -			CONTRACT NO. 61G33				
	DATE - 02-11-2020	REVISIED -			ILLINOIS FED. AID PROJECT				

LEGEND

-  WORK AREA
-  CONE, DRUM, OR BARRICADE



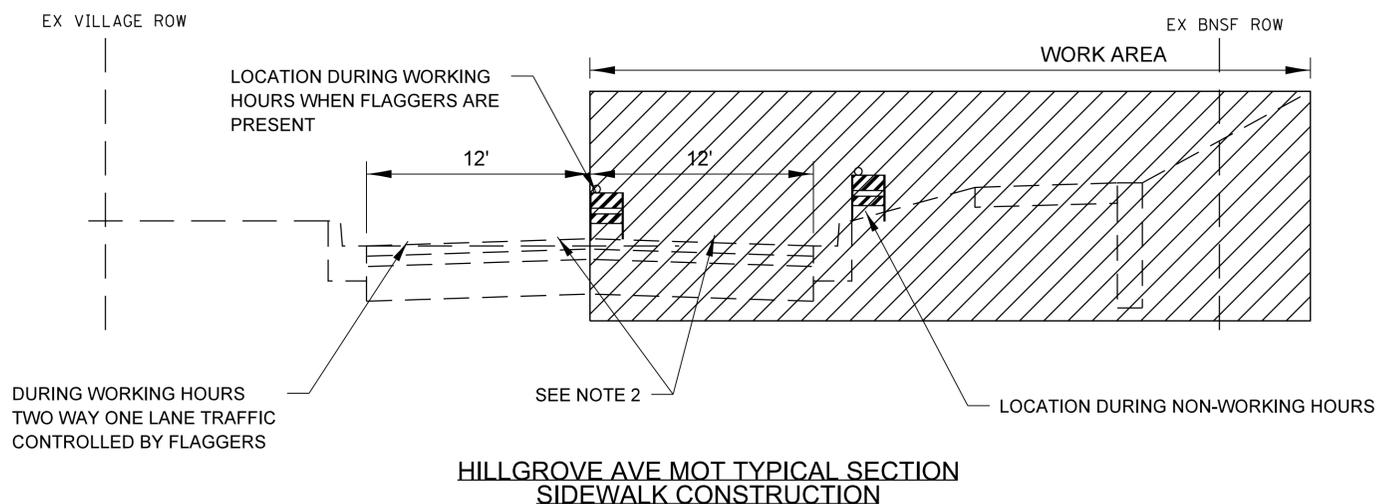
STAGING NOTES

TRAFFIC CONTROL

1. DURING WORKING HOURS, SET UP LANE CLOSURE FOR WESTBOUND LANE BY PLACING ALL REQUIRED TRAFFIC CONTROL DEVICES AND UTILIZING FLAGGERS TO MAINTAIN TWO WAY TRAFFIC. REFER TO IDOT STANDARD 701501 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED, THE COST IS INCLUDED IN TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
2. DURING NON-WORKING HOURS, COVER TRAFFIC CONTROL SIGNS AND MOVE TRAFFIC CONTROL DEVICES TO PROVIDE TWO LANE TWO WAY TRAFFIC.

CONSTRUCTION

1. CONSTRUCT SIDEWALK NORTH OF HILLGROVE AVE AND PERFORM GRADING.



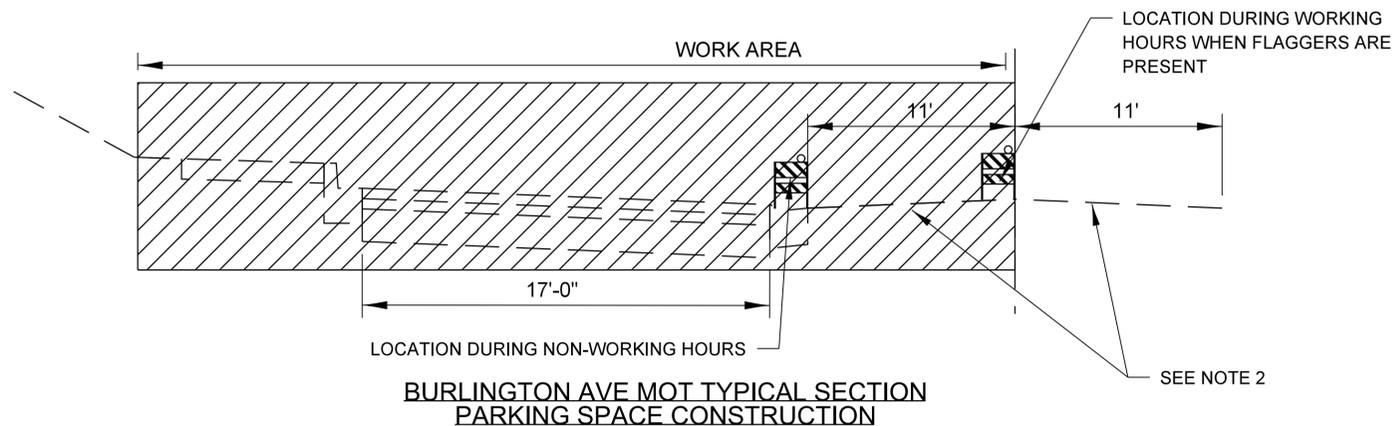
STAGING NOTES

TRAFFIC CONTROL

1. DURING WORKING HOURS, SET UP LANE CLOSURE FOR EASTBOUND LANE BY PLACING ALL REQUIRED TRAFFIC CONTROL DEVICES AND UTILIZING FLAGGERS TO MAINTAIN TWO WAY TRAFFIC. REFER TO IDOT STANDARD 701501 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED, THE COST IS INCLUDED IN TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
2. DURING NON-WORKING HOURS, COVER TRAFFIC CONTROL SIGNS AND MOVE TRAFFIC CONTROL DEVICES TO PROVIDE TWO LANE TWO WAY TRAFFIC.

CONSTRUCTION

1. CONSTRUCT SIDEWALK SOUTH OF HILLGROVE AVE AND PERFORM GRADING.



STAGING NOTES

TRAFFIC CONTROL

1. DURING WORKING HOURS, SET UP LANE CLOSURE FOR WESTBOUND LANE BY PLACING ALL REQUIRED TRAFFIC CONTROL DEVICES AND UTILIZING FLAGGERS TO MAINTAIN TWO WAY TRAFFIC. REFER TO IDOT STANDARD 701501 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED, THE COST IS INCLUDED IN TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
2. DURING NON-WORKING HOURS, COVER TRAFFIC CONTROL SIGNS AND MOVE TRAFFIC CONTROL DEVICES TO PROVIDE TWO LANE TWO WAY TRAFFIC.

CONSTRUCTION

1. CONSTRUCT PARKING SPOTS AND SIDEWALK NORTH OF BURLINGTON AVE AND PERFORM GRADING.



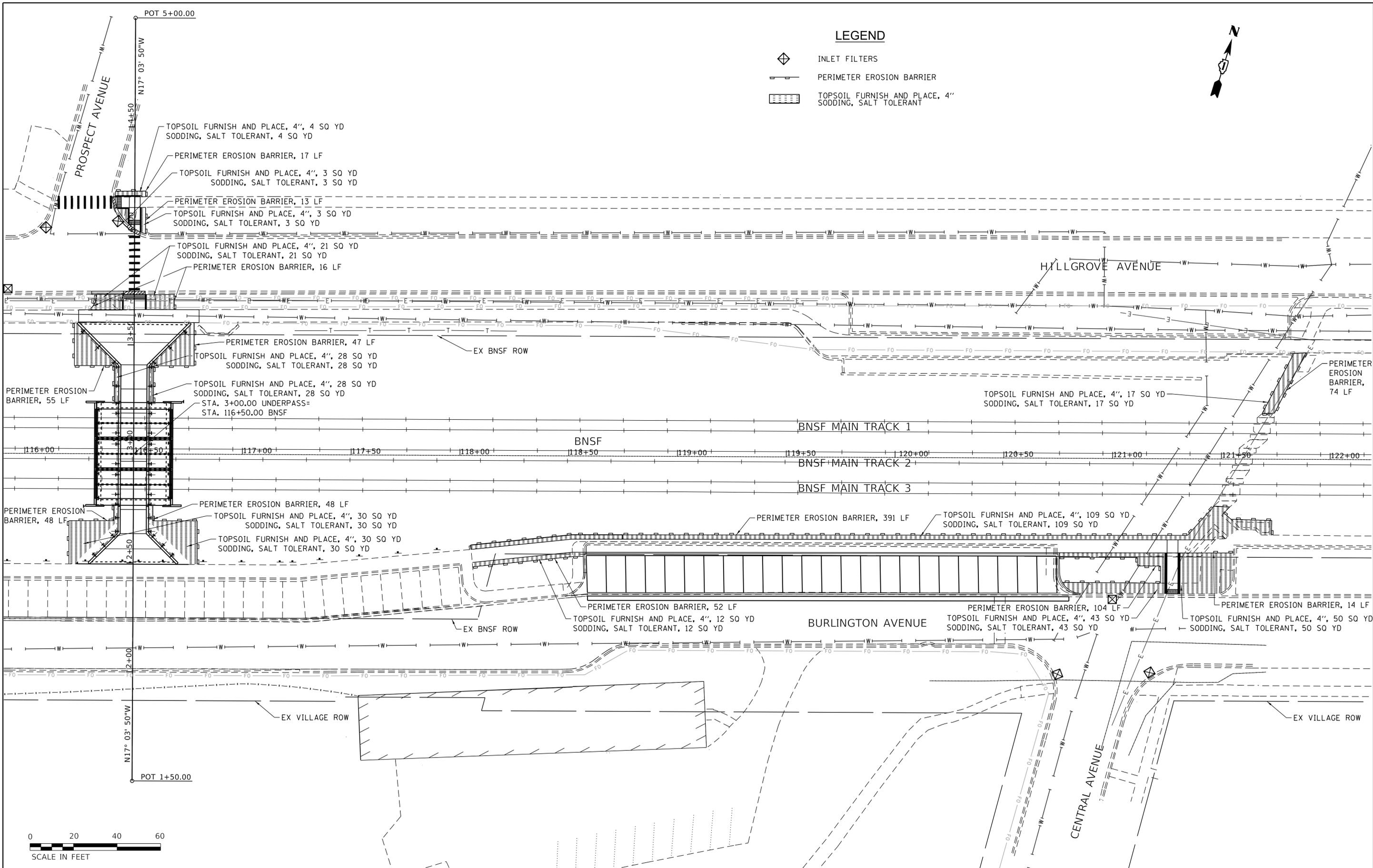
DESIGNED -	JAV	REVISED -	
DRAWN -	SHR	REVISED -	
CHECKED -	RDC	REVISED -	
DATE -	02-11-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
MOT TYPICAL SECTIONS**

SCALE: NTS SHEET 1 OF 1 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 13
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				



LEGEND

-  INLET FILTERS
-  PERIMETER EROSION BARRIER
-  TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT



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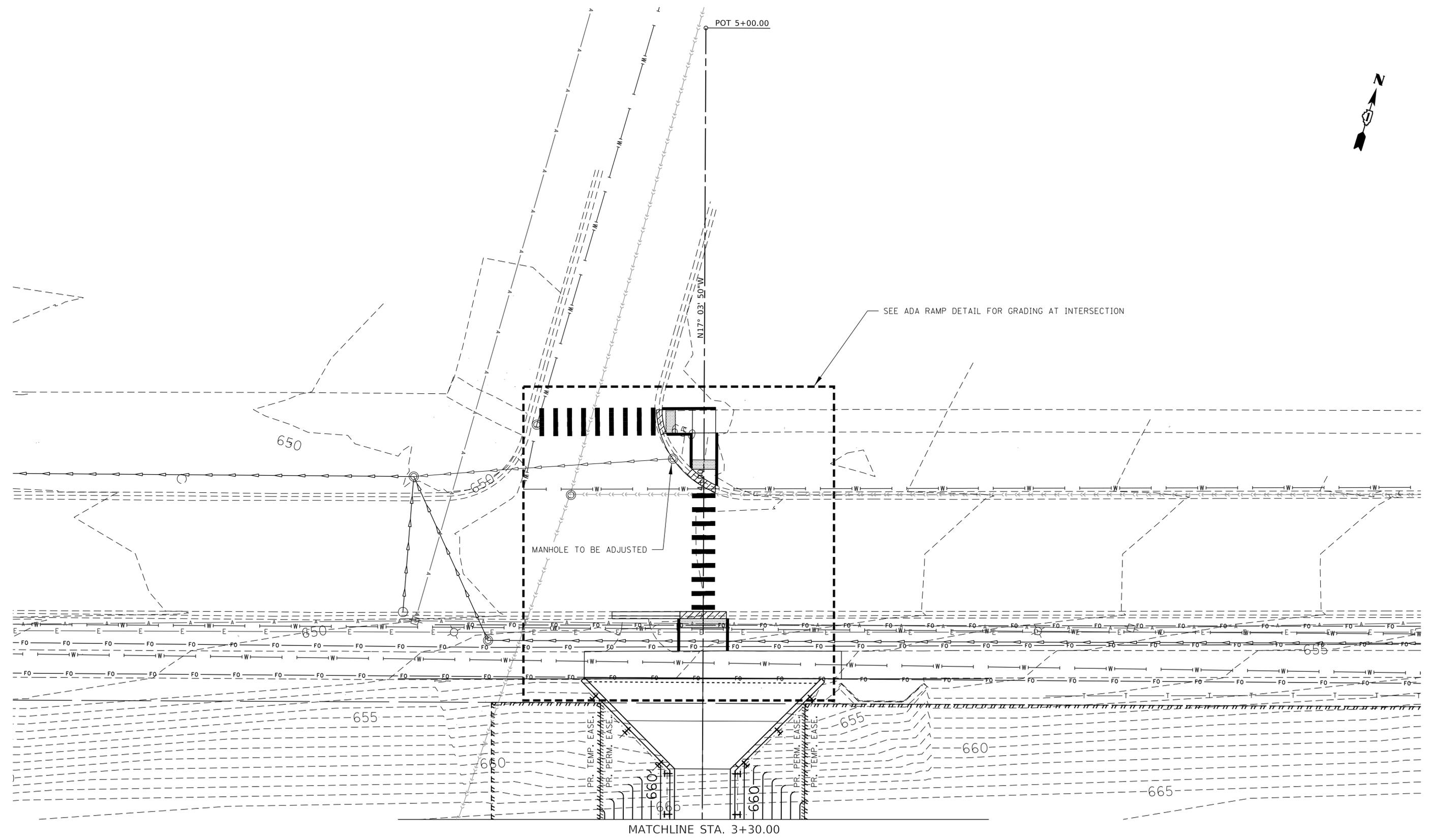
DESIGNED -	JAV	REVISED -	
DRAWN -	SHR	REVISED -	
CHECKED -	RDC	REVISED -	
DATE -	02-11-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
EROSION CONTROL PLAN**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 14
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				



DESIGNED -	JAV	REVISED -	
DRAWN -	SHR	REVISED -	
CHECKED -	RDC	REVISED -	
DATE -	02-11-2020	REVISED -	

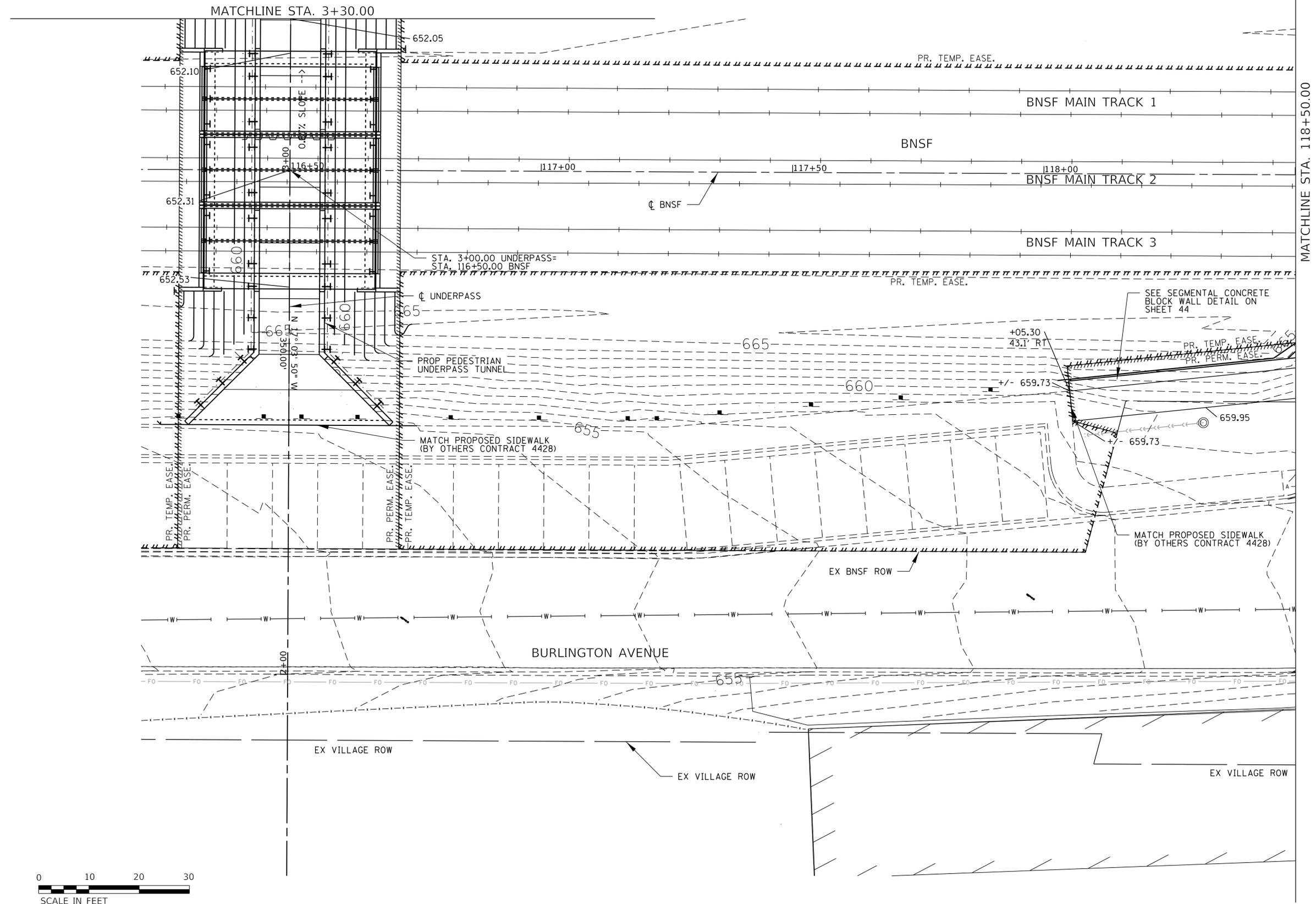
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
GRADING PLAN - HILLGROVE AVENUE**

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 15
CONTRACT NO. 61G33				

SCALE: 1"=10' SHEET 1 OF 3 SHEETS

ILLINOIS FED. AID PROJECT



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DESIGNED -	JAV	REVISED -	
DRAWN -	SHR	REVISED -	
CHECKED -	RDC	REVISED -	
DATE -	02-11-2020	REVISED -	

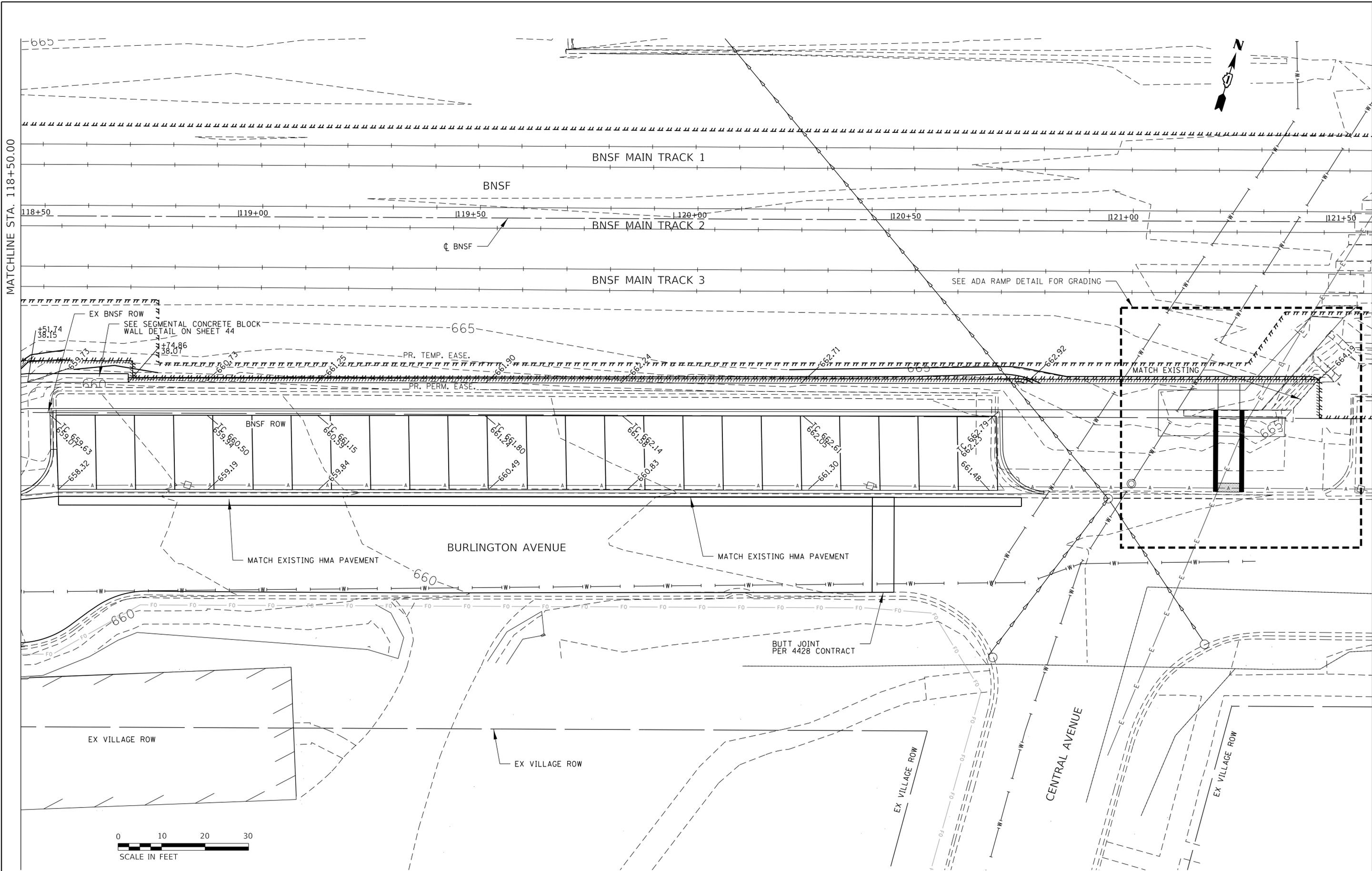
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
GRADING PLAN - BURLINGTON AVENUE**

SCALE: 1"=10' SHEET 2 OF 3 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 16
CONTRACT NO. 61G33				

ILLINOIS FED. AID PROJECT



MATCHLINE STA. 118+50.00

665

BNSF MAIN TRACK 1

BNSF

BNSF MAIN TRACK 2

BNSF MAIN TRACK 3

SEE ADA RAMP DETAIL FOR GRADING

EX BNSF ROW
SEE SEGMENTAL CONCRETE BLOCK
WALL DETAIL ON SHEET 44

+51.74
38.15

+74.86
38.07

665

PR. TEMP. EASE.

PR. PERM. EASE.

MATCH EXISTING

BNSF ROW

658.32
659.63

659.19
659.99

659.84
660.15

660.49
661.24

660.83
661.58

661.30
662.05

661.48
662.23

BURLINGTON AVENUE

MATCH EXISTING HMA PAVEMENT

MATCH EXISTING HMA PAVEMENT

660

BUTT JOINT
PER 4428 CONTRACT

EX VILLAGE ROW

EX VILLAGE ROW

EX VILLAGE ROW

CENTRAL AVENUE

EX VILLAGE ROW



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DESIGNED - JAV	REVISED -
DRAWN - SHR	REVISED -
CHECKED - RDC	REVISED -
DATE - 02-11-2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
GRADING PLAN - BURLINGTON AVENUE

SCALE: 1"=10'

SHEET 3 OF 3 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 17
CONTRACT NO. 61G33				

ILLINOIS FED. AID PROJECT

EXHIBIT A1

LEGAL DESCRIPTION FOR TEMPORARY EASEMENT NO. 1

THAT PART OF THE RIGHT OF WAY OF THE CHICAGO, BURLINGTON AND SANTA FE RAILWAY OF VARYING WIDTHS, RUNNING IN A GENERAL EASTERLY/WESTERLY DIRECTION THROUGH AND ACROSS THE WEST HALF OF THE SOUTHEAST QUARTER, AND THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 38 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 6, TOWNSHIP 38 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN; THENCE NORTH 02 DEGREES 11 MINUTES 51 SECONDS WEST, 560.19 FEET ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 6, TO THE NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY ACCORDING TO DEED DOCUMENT 81318 RECORDED MAY 27, 1864; THENCE NORTH 72 DEGREES 56 MINUTES 09 SECONDS EAST ALONG SAID NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY, 3236.70 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 72 DEGREES 56 MINUTES 09 SECONDS EAST, ALONG SAID NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY, 24.00 FEET; THENCE SOUTH 17 DEGREES 03 MINUTES 51 SECONDS EAST, 34.00 FEET; THENCE SOUTH 72 DEGREES 56 MINUTES 09 SECONDS WEST, 24.00 FEET; THENCE NORTH 17 DEGREES 03 MINUTES 51 SECONDS WEST, 34.00 FEET TO THE POINT OF BEGINNING.

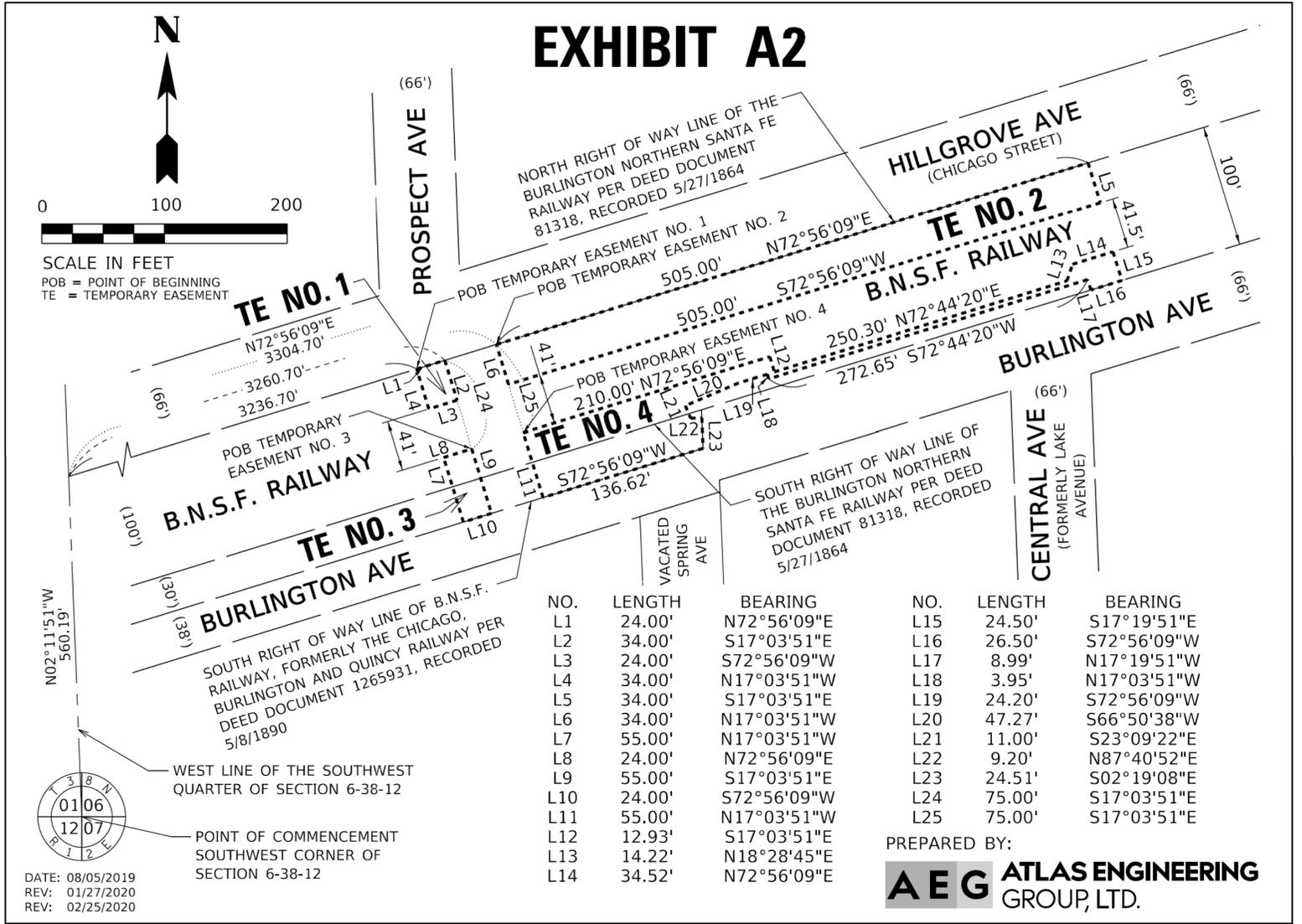
CONTAINING 816 SQUARE FEET OR 0.019 ACRES, MORE OR LESS.

LEGAL DESCRIPTION FOR TEMPORARY EASEMENT NO. 4

THAT PART OF THE RIGHT OF WAY OF THE CHICAGO, BURLINGTON AND SANTA FE, TOGETHER WITH THAT PART OF THE CHICAGO, BURLINGTON AND QUINCY RAILWAY (NOW BNSF RAILWAY) OF VARYING WIDTHS, RUNNING IN A GENERAL EASTERLY/WESTERLY DIRECTION THROUGH AND ACROSS THE WEST HALF OF THE SOUTHEAST QUARTER, AND THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 38 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 6, TOWNSHIP 38 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN; THENCE NORTH 02 DEGREES 11 MINUTES 51 SECONDS WEST, 560.19 FEET ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 6, TO THE NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY ACCORDING TO DEED DOCUMENT 81318 RECORDED MAY 27, 1864; THENCE NORTH 72 DEGREES 56 MINUTES 09 SECONDS EAST ALONG SAID NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY, 3304.70 FEET; THENCE SOUTH 17 DEGREES 03 MINUTES 51 SECONDS EAST, 75.00 FEET TO THE POINT OF BEGINNING; THENCE NORTH 72 DEGREES 56 MINUTES 09 SECONDS EAST, 210.00 FEET; THENCE SOUTH 17 DEGREES 03 MINUTES 51 SECONDS EAST, 12.93 FEET; THENCE NORTH 72 DEGREES 44 MINUTES 20 SECONDS EAST, 250.30 FEET; THENCE NORTH 18 DEGREES 28 MINUTES 45 SECONDS EAST, 14.22 FEET; THENCE NORTH 72 DEGREES 56 MINUTES 09 SECONDS EAST, 34.52 FEET; THENCE SOUTH 17 DEGREES 19 MINUTES 51 SECONDS EAST, 24.50 FEET TO THE SOUTH RIGHT OF WAY OF LINE OF SAID BURLINGTON NORTHERN SANTA FE RAILWAY; THENCE SOUTH 72 DEGREES 56 MINUTES 09 SECONDS WEST, ALONG SAID SOUTH RIGHT OF WAY, 26.50 FEET; THENCE NORTH 17 DEGREES 19 MINUTES 51 SECONDS WEST, 8.99 FEET; THENCE SOUTH 72 DEGREES 44 MINUTES 20 SECONDS WEST, 272.65 FEET; THENCE NORTH 17 DEGREES 03 MINUTES 51 SECONDS WEST, 3.95 FEET; THENCE SOUTH 72 DEGREES 56 MINUTES 09 SECONDS WEST, 24.20 FEET; THENCE SOUTH 66 DEGREES 50 MINUTES 38 SECONDS WEST, 47.27 FEET; THENCE SOUTH 23 DEGREES 09 MINUTES 22 SECONDS EAST, 11.00 FEET; THENCE NORTH 87 DEGREES 40 MINUTES 52 SECONDS EAST, 9.20 FEET; THENCE SOUTH 02 DEGREES 19 MINUTES 08 SECONDS EAST, 24.51 FEET TO THE SOUTH RIGHT OF WAY OF LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY, (FORMERLY THE CHICAGO, BURLINGTON AND QUINCY RAILWAY), ACCORDING TO DEED DOCUMENT 1265931, RECORDED MAY 8, 1890; THENCE SOUTH 72 DEGREES 56 MINUTES 09 SECONDS WEST, ALONG SAID SOUTH RIGHT OF WAY, 136.62 FEET; THENCE NORTH 17 DEGREES 03 MINUTES 51 SECONDS WEST, 55.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 10,489 SQUARE FEET OR 0.241 ACRES, MORE OR LESS.



LEGAL DESCRIPTION FOR TEMPORARY EASEMENT NO. 2

THAT PART OF THE RIGHT OF WAY OF THE CHICAGO, BURLINGTON AND SANTA FE RAILWAY OF VARYING WIDTHS, RUNNING IN A GENERAL EASTERLY/WESTERLY DIRECTION THROUGH AND ACROSS THE WEST HALF OF THE SOUTHEAST QUARTER, AND THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 38 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 6, TOWNSHIP 38 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN; THENCE NORTH 02 DEGREES 11 MINUTES 51 SECONDS WEST, 560.19 FEET ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 6, TO THE NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY ACCORDING TO DEED DOCUMENT 81318 RECORDED MAY 27, 1864; THENCE NORTH 72 DEGREES 56 MINUTES 09 SECONDS EAST ALONG SAID NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY, 3304.70 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 72 DEGREES 56 MINUTES 09 SECONDS EAST ALONG SAID NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY, 505.00 FEET; THENCE SOUTH 17 DEGREES 03 MINUTES 51 SECONDS EAST, 34.00 FEET; THENCE SOUTH 72 DEGREES 56 MINUTES 09 SECONDS WEST, 505.00 FEET; THENCE NORTH 17 DEGREES 03 MINUTES 51 SECONDS WEST, 34.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 17,170 SQUARE FEET OR 0.394 ACRES, MORE OR LESS.

LEGAL DESCRIPTION FOR TEMPORARY EASEMENT NO. 3

THAT PART OF THE RIGHT OF WAY OF THE CHICAGO, BURLINGTON AND SANTA FE, TOGETHER WITH THAT PART OF THE CHICAGO, BURLINGTON AND QUINCY RAILWAY (NOW BNSF RAILWAY) OF VARYING WIDTHS, RUNNING IN A GENERAL EASTERLY/WESTERLY DIRECTION THROUGH AND ACROSS THE WEST HALF OF THE SOUTHEAST QUARTER, AND THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 38 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 6, TOWNSHIP 38 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN; THENCE NORTH 02 DEGREES 11 MINUTES 51 SECONDS WEST, 560.19 FEET ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 6, TO THE NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY ACCORDING TO DEED DOCUMENT 81318 RECORDED MAY 27, 1864; THENCE NORTH 72 DEGREES 56 MINUTES 09 SECONDS EAST ALONG SAID NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY, 3260.70 FEET; THENCE SOUTH 17 DEGREES 03 MINUTES 51 SECONDS EAST, 75.00 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 17 DEGREES 03 MINUTES 51 SECONDS EAST, 55.00 FEET TO THE SOUTH RIGHT OF WAY OF LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY, (FORMERLY THE CHICAGO, BURLINGTON AND QUINCY RAILWAY), ACCORDING TO DEED DOCUMENT 1265931, RECORDED MAY 8, 1890; THENCE SOUTH 72 DEGREES 56 MINUTES 09 SECONDS WEST, ALONG SAID SOUTH RIGHT OF WAY, 24.00 FEET; THENCE NORTH 17 DEGREES 03 MINUTES 51 SECONDS WEST, 55.00 FEET; THENCE NORTH 72 DEGREES 56 MINUTES 09 SECONDS EAST, 24.00 FEET, TO THE POINT OF BEGINNING.

CONTAINING 1,320 SQUARE FEET OR 0.030 ACRES, MORE OR LESS.

TEMPORARY EASEMENT

	DESIGNED - RVR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS RIGHT OF WAY PLANS - TEMPORARY EASEMENT	F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 18
	DRAWN - SDS	REVISED -			CONTRACT NO. 61G33				
	CHECKED - KAC	REVISED -			ILLINOIS FED. AID PROJECT				
	DATE - 02-11-2020	REVISED -		SCALE: NTS	SHEET 1 OF 3 SHEETS				

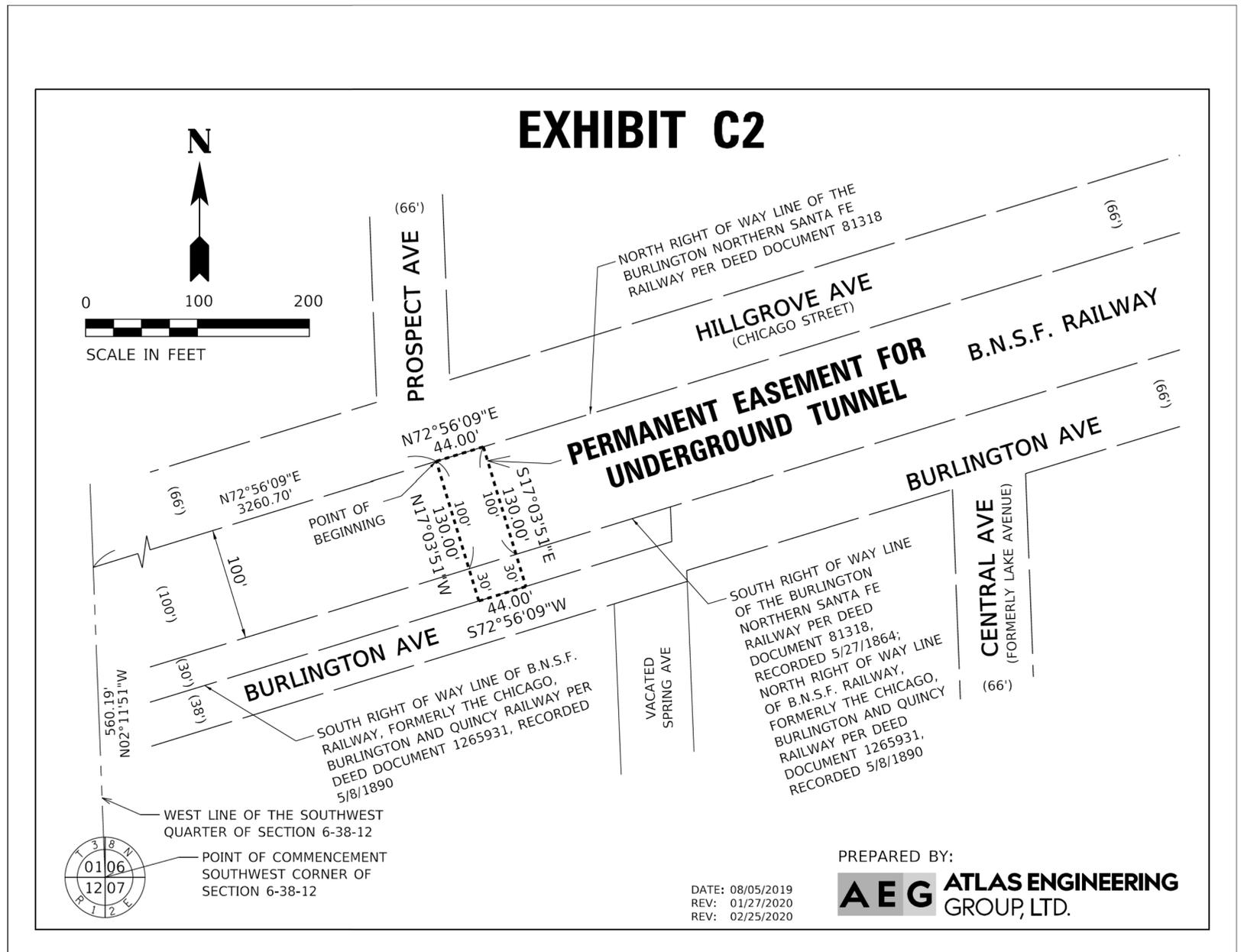
EXHIBIT C1

LEGAL DESCRIPTION FOR PERMANENT EASEMENT FOR UNDERGROUND TUNNEL

THAT PART OF THE RIGHT OF WAY OF THE CHICAGO, BURLINGTON AND SANTA FE RAILWAY, TOGETHER WITH THAT PART OF THE CHICAGO, BURLINGTON AND QUINCY RAILWAY (NOW BNSF RAILWAY) OF VARYING WIDTHS, RUNNING IN A GENERAL EASTERLY/WESTERLY DIRECTION THROUGH AND ACROSS THE WEST HALF OF THE SOUTHEAST QUARTER, AND THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 38 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 6, TOWNSHIP 38 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN; THENCE NORTH 02 DEGREES 11 MINUTES 51 SECONDS WEST, 560.19 FEET ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 6, TO THE NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY ACCORDING TO DEED DOCUMENT 81318 RECORDED MAY 27, 1864; THENCE NORTH 72 DEGREES 56 MINUTES 09 SECONDS EAST, 3260.70 FEET ALONG SAID NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY, TO THE POINT OF BEGINNING; THENCE CONTINUING ALONG THE NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY NORTH 72 DEGREES 56 MINUTES 09 SECONDS EAST, 44.00 FEET; THENCE SOUTH 17 DEGREES 03 MINUTES 51 SECONDS EAST, 100.00 FEET TO THE SOUTH RIGHT OF WAY LINE OF SAID BURLINGTON NORTHERN SANTA FE RAILWAY ALSO BEING THE NORTH RIGHT OF WAY OF LINE OF THE CHICAGO, BURLINGTON AND QUINCY RAILWAY'S RIGHT OF WAY ACCORDING TO DEED DOCUMENT 1265931, RECORDED MAY 8, 1890, NOW BNSF RAILWAY; THENCE CONTINUING SOUTH 17 DEGREES 03 MINUTES 51 SECONDS EAST, 30.00 FEET TO THE SOUTH LINE OF SAID CHICAGO, BURLINGTON AND QUINCY RAILWAY; THENCE SOUTH 72 DEGREES 56 MINUTES 09 SECONDS WEST, ALONG A LINE OF SAID CHICAGO, BURLINGTON AND QUINCY RAILWAY 44.00 FEET; THENCE NORTH 17 DEGREES 03 MINUTES 51 SECONDS WEST, 30.00 FEET, TO SAID NORTH LINE OF CHICAGO, BURLINGTON AND QUINCY RAILWAY; THENCE CONTINUING NORTH 17 DEGREES 03 MINUTES 51 SECONDS WEST, 100.00 FEET, TO THE POINT OF BEGINNING.

CONTAINING 5,720 SQUARE FEET OR 0.131 ACRES, MORE OR LESS.



PERMANENT EASEMENT (TUNNEL)

	DESIGNED - RVR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS RIGHT OF WAY PLANS - PERMANENT EASEMENT (TUNNEL)		F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 19
	DRAWN - SDS	REVISED -		SCALE: NTS	SHEET 2 OF 3 SHEETS	CONTRACT NO. 61G33 ILLINOIS FED. AID PROJECT				
	CHECKED - KAC	REVISED -								
	DATE - 02-11-2020	REVISED -								

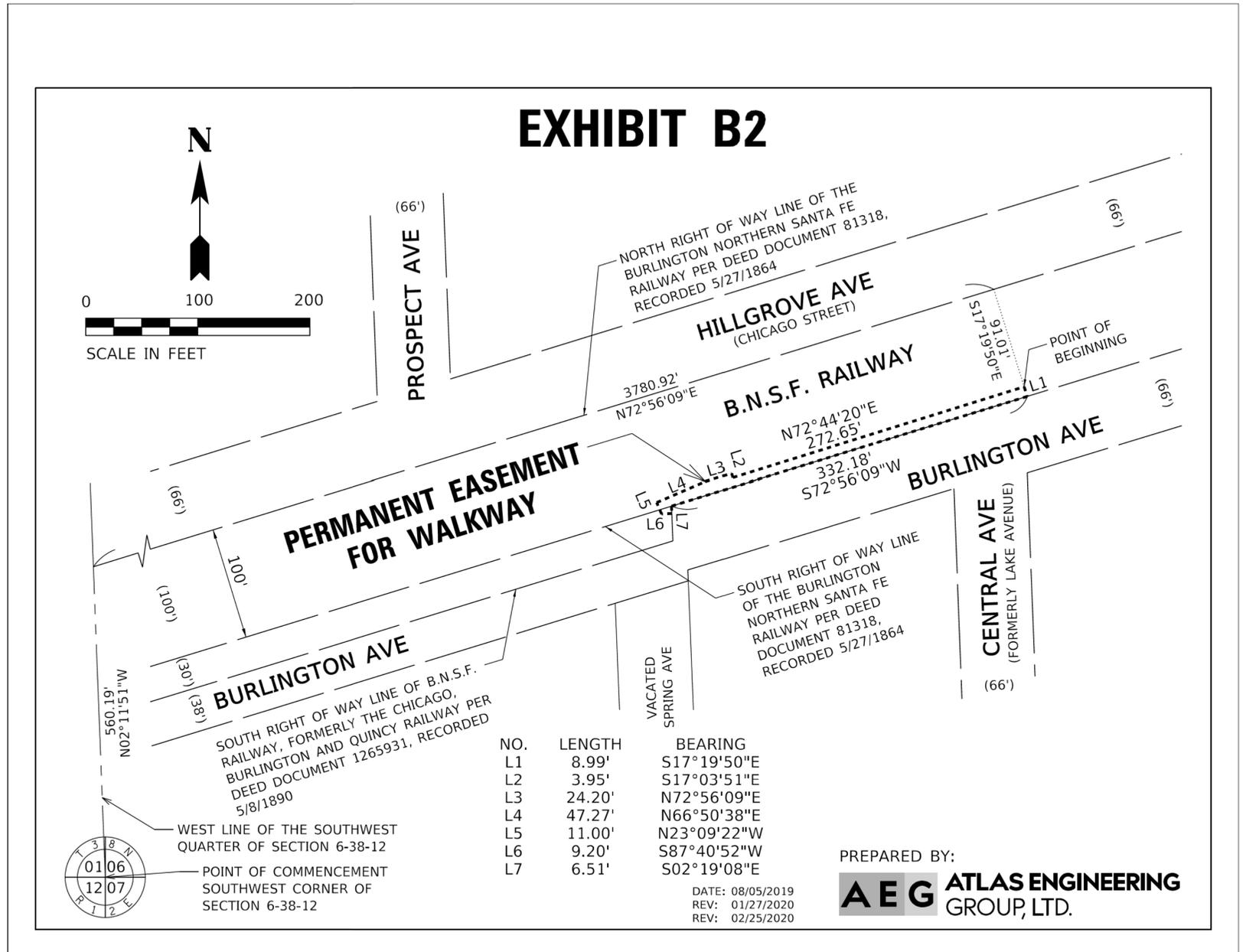
EXHIBIT B1

LEGAL DESCRIPTION FOR PERMANENT EASEMENT FOR WALKWAY

THAT PART OF THE RIGHT OF WAY OF THE CHICAGO, BURLINGTON AND SANTA FE RAILWAY, AND ALSO THE CHICAGO, BURLINGTON AND QUINCY RAILWAY (NOW BNSF RAILWAY) OF VARYING WIDTHS, RUNNING IN A GENERAL EASTERLY/WESTERLY DIRECTION THROUGH AND ACROSS THE WEST HALF OF THE SOUTHEAST QUARTER, AND THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 38 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 6, TOWNSHIP 38 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN; THENCE NORTH 02 DEGREES 11 MINUTES 51 SECONDS WEST, 560.19 FEET ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 6, TO THE NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY ACCORDING TO DEED DOCUMENT 81318 RECORDED MAY 27, 1864; THENCE NORTH 72 DEGREES 56 MINUTES 09 SECONDS EAST, ALONG SAID NORTH RIGHT OF WAY LINE OF THE BURLINGTON NORTHERN SANTA FE RAILWAY, 3780.92 FEET; THENCE SOUTH 17 DEGREES 19 MINUTES 50 SECONDS EAST, 91.01 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 17 DEGREES 19 MINUTES 50 SECONDS EAST, 8.99 FEET TO THE SOUTH RIGHT OF WAY OF LINE OF SAID BURLINGTON NORTHERN SANTA FE RAILWAY; THENCE SOUTH 72 DEGREES 56 MINUTES 09 SECONDS WEST, ALONG SAID SOUTH RIGHT OF WAY, 332.18 FEET; THENCE SOUTH 02 DEGREES 19 MINUTES 08 SECONDS EAST, 6.51 FEET; THENCE SOUTH 87 DEGREES 40 MINUTES 52 SECONDS WEST, 9.20 FEET; THENCE NORTH 23 DEGREES 09 MINUTES 22 SECONDS WEST, 11.00 FEET; THENCE NORTH 66 DEGREES 50 MINUTES 38 SECONDS EAST, 47.27 FEET; THENCE NORTH 72 DEGREES 56 MINUTES 09 SECONDS EAST, 24.20 FEET; THENCE SOUTH 17 DEGREES 03 MINUTES 51 SECONDS EAST, 3.95 FEET; THENCE NORTH 72 DEGREES 44 MINUTES 20 SECONDS EAST, 272.65 FEET TO THE POINT OF BEGINNING.

CONTAINING 3,108 SQUARE FEET OR 0.071 ACRES, MORE OR LESS.



PERMANENT EASEMENT (SIDEWALK)

	DESIGNED - RVR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS RIGHT OF WAY PLANS - PERMANENT EASEMENT (SIDEWALK)	F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 20
	DRAWN - SDS	REVISED -			SCALE: NTS	SHEET 3 OF 3 SHEETS	CONTRACT NO. 61G33		ILLINOIS FED. AID PROJECT
	CHECKED - KAC	REVISED -							
	DATE - 02-11-2020	REVISED -							

GENERAL ELECTRICAL NOTES

POWER	
	SURFACE MOUNTED ELECTRICAL PANELBOARD
	SURFACE MOUNTED EQUIPMENT PANELBOARD
	FUSED DISCONNECT SWITCH
	NON - FUSED DISCONNECT SWITCH
	CEILING MOUNTED JUNCTION BOX WITH POWERED CONNECTION
	WALL MOUNTED JUNCTION BOX WITH POWERED CONNECTION
	FLOOR MOUNTED JUNCTION BOX WITH POWERED CONNECTION
	CONDUIT
	CONDUIT DOWN
	CONDUIT UP
	CONTROL PANEL - TYPE AS INDICATED ON PLANS
	WIRES IN CONDUIT (LEFT TO RIGHT) PHASE / SWITCH LEG WIRE, NEUTRAL WIRE, GROUND WIRE

RECEPTACLES	
	DUPLEX WALL MOUNTED RECEPTACLE
	DUPLEX GFCI WALL MOUNTED RECEPTACLE

LIGHTING	
	LINEAR FIXTURE
	ROUND RECESSED DOWNLIGHT
	DECORATIVE PENDANT FIXTURE
	SQUARE DOWNLIGHT FIXTURE
	WALL SCONCE FIXTURE
	EXTERIOR WALL FIXTURE

SITE LIGHTING	
	SINGLE HEAD AREA POLE LIGHT
	DOUBLE HEAD AREA POLE LIGHT
	BOLLARD LIGHT
	IN-GROUND UP LIGHT
	WALL MOUNTED DOWN LIGHT
	GROUND MOUNTED FLOOD LIGHT
	WALL MOUNTED FLOOD LIGHT

TAG SYMBOLS	
<p>TYPE → NUM EQUIPMENT TAG</p>	
<p>TYPE → NUM RISER TAG</p>	
<p>DETAIL NUMBER → REFERENCE SHEET NUMBER</p>	
<p>SECTION NUMBER → REFERENCE SHEET NUMBER</p>	
<p>KEYED NOTE →</p>	
<p>TYPICAL ELECTRICAL DEVICE NOTATION</p> <p>XXXX → ELECTRICAL DEVICE XX → PANEL X → CIRCUIT</p>	
<p>TYPICAL LIGHTING CIRCUIT NOTATION</p> <p>XXXX → LIGHTING FIXTURE / DEVICE XX → PANEL X → CIRCUIT X → SWITCH LEG</p>	
<p>TYPICAL TELEPHONE / DATA NOTATION</p> <p>X → TELEPHONE / DATA DEVICE X → CABLE COUNT</p>	

GENERAL SYMBOLS	
	POINT OF CONNECTION / DISCONNECTION
	NEW
	EXISTING
	DEMO
	EXISTING ITEM TO BE REMOVED AND RELOCATED

1. CODES

THE WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, MUNICIPAL, AND NATIONAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS THE CONSTRUCTION DOCUMENTS SHALL GOVERN. HOWEVER, THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE CODE OR REGULATION.

2. DRAWINGS AND SPECIFICATIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND COMPLYING WITH BOTH THE DRAWINGS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN THE DRAWINGS, NOTES, SPECIFICATIONS, OR CODES, THE REFERENCE WHICH PROVIDES THE MORE COMPLETE OR HIGHER STANDARD SHALL PREVAIL.

3. INTERPRETATION OF THE DOCUMENTS

CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING MEASUREMENTS AND CONDITIONS UNDER WHICH THIS INSTALLATION IS TO BE MADE. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS, BETWEEN DRAWINGS OR SPECIFICATIONS, OR BETWEEN SECTIONS OF THE SPECIFICATION, THE MATTER SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS A COMPLETE, READY TO USE INSTALLATION. IF NOT STATED IN THE PROPOSAL, IT WILL NOT BE CONSIDERED EXTRA.

4. ELECTRICAL DRAWINGS

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL DOORS, WALLS, FURNITURE, EQUIPMENT, ETC. THE LOCATION OF RACEWAY SYSTEM COMPONENTS IS SCHEMATIC. THE EXACT LOCATION OF RACEWAY SYSTEM COMPONENTS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL CONFIRM THE DIMENSIONS OF THE ACTUAL EQUIPMENT TO BE SUPPLIED FOR THIS PROJECT, AND VERIFY CLEARANCES AND ROUGH-INS PRIOR TO STARTING WORK.

5. SITE EXAMINATION

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE EXISTING CONDITIONS. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE OR FOR LATER CLAIMS FOR LABOR, EQUIPMENT, MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN SITE EXAMINATION BEEN MADE.

6. COORDINATION WITH OTHER TRADES

THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF ARCHITECTURAL AND ENGINEERING DOCUMENTS AND COORDINATE WITH MECHANICAL, PLUMBING, ARCHITECTURAL, REFRIGERATION, PROCESS EQUIPMENT, AND OTHER TRADES FOR EXACT DIMENSIONS, CLEARANCES, ROUGH-IN LOCATIONS, AND OTHER ADDITIONAL SCOPES OF WORK THAT MAY NOT BE SHOWN ON THE ELECTRICAL PLANS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL 120 VOLT (AND HIGHER) AC POWER TO OTHER TRADES' EQUIPMENT AND HARDWARE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONTROLS, FIRE AND SECURITY SYSTEMS, MOTORIZED DOORS, DAMPERS, LIFTS, AND OTHER SYSTEMS. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL PLANS, THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL SAFETY DISCONNECT SWITCHES FOR EQUIPMENT. IN CASES WHERE ELECTRICAL EQUIPMENT LISTED ON THE MANUFACTURER'S PRODUCT DATA EXCEEDS DESIGN LOADS INDICATED ON DESIGN DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH WORK.

7. PERMITS, APPLICATIONS AND RELEASES

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS INSPECTIONS, APPLICATIONS, RELEASES AND FEES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES FOR THE EXECUTION OF THIS WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

8. FIRE STOPPING AND PENETRATIONS

ALL PENETRATIONS THROUGH WALLS, FLOORS OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH AN INTUMESCENT FIRE STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE AND COMPLY WITH ALL FIRESTOPPING SPECIFICATIONS. ALL PENETRATIONS THROUGH BOTH RATED AND NON-RATED ELEMENTS SHALL BE SUITABLY SEALED. REFER TO DETAILS FOR ADDITIONAL INFORMATION. ANY CLARIFICATIONS SHALL BE SUBMITTED IN THE FORM OF AN RFI. ANY REWORK REQUIRED TO CORRECT PENETRATIONS NOT IN COMPLIANCE WITH DETAILS SHOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR IF CLARIFICATION WAS NOT OBTAINED PRIOR TO THE INSTALLATION.

9. OWNER FURNISHED EQUIPMENT

EQUIPMENT THAT WILL BE FURNISHED BY THE OWNER WILL BE INDICATED IN THE SCHEDULES. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR DELIVERY SCHEDULES. THE CONTRACTOR IS TO ASSUME THAT ON SITE STORAGE MAY NOT BE AVAILABLE WHEN COORDINATING DELIVERY OF EQUIPMENT. THE CONTRACTOR, IN COORDINATION WITH THE OWNER'S REPRESENTATIVE, WILL INSPECT THE DELIVERY FOR ACCURACY AND SHIPMENT DAMAGE AND ACCEPTING THE EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO STORE, PROTECT AND ULTIMATELY INSTALL THE EQUIPMENT.

10. ELECTRICAL SERVICE DISRUPTIONS

ANY WORK INVOLVING A TASK WHICH EXPOSES ACTIVE BUS SHALL BE PERFORMED AFTER HOURS. THIS RESTRICTION INCLUDES REMOVING THE COVER FROM ANY PANELBOARD, SWITCHBOARD, ETC. ALL WORK WHICH EXPOSES ACTIVE BUS REQUIRES A WRITTEN NOTIFICATION TO THE OWNER WHICH WILL OUTLINE THE METHOD OF PROCEDURE FOR THE WORK. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 5 DAYS NOTICE TO THE OWNER BEFORE WORKING ON ANY ENERGIZED ELECTRICAL SYSTEM. ALL POWER DISRUPTIONS SHALL BE COORDINATED AND OCCUR AT TIMES AND OF DURATIONS THAT WILL NOT IMPACT THE OVERALL SCHEDULE AND BUILDING ENGINEER SHALL BE NOTIFIED OF ALL PLANNED SHUTDOWNS IN WRITING PER BUILDING GUIDELINES.

11. EQUIPMENT LISTING AND LABELING

ALL MATERIALS AND EQUIPMENT USED IN THIS INSTALLATION SHALL BE NEW, AND HAVE THE APPROPRIATE LISTING AND LABELING. LISTING AND LABELING AGENCY SHALL BE ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION.

12. MISCELLANEOUS SUPPORTING MEMBERS

ALL ANGLES CHANNELS, AND OTHER MISCELLANEOUS STEEL BOLTS, RODS, ETC. REQUIRED TO SUPPORT LIGHT FIXTURES, RACEWAYS, INCLUDING CONDUIT AND CABLE TRAY, OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

13. PANELBOARDS

ALL PANELBOARDS SHALL BE PROVIDED WITH UPDATED TYPEWRITTEN DIRECTORIES UPON COMPLETION OF WORK. THE CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL RATED ELEMENTS. SEE PANEL SCHEDULES ON THE DRAWINGS AND SPECIFICATIONS FOR COMPLETE IDENTIFICATION AND LABELING REQUIREMENTS.

14. SAFETY

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE OWNERS EMPLOYEES, BUILDING EMPLOYEES AND GUESTS, AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CONDUCTORS, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.

15. EQUIPMENT CONNECTIONS

PROVIDE FINAL CONNECTIONS FOR ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS AND FOR ALL OWNER FURNISHED EQUIPMENT.

16. INTERFERENCE WITH OCCUPANCY

THE PRESENT BUILDING IS OCCUPIED AND WILL CONTINUE TO BE DURING THE PROGRESS OF THIS WORK. IT IS IMPERATIVE, THEREFORE, THAT THE WORK COVERED BY THESE DOCUMENTS BE EXECUTED WITH A MINIMUM OF INCONVENIENCE TO THE BUILDING PERSONNEL, AND OTHER TENANTS.

17. TEMPORARY LIGHTING, POWER, FIRE, AND SAFETY

PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED IN AREAS UNDERGOING WORK DURING CONSTRUCTION. FURNISH AND INSTALL ONE OSHA APPROVED PIGTAIL SOCKET WITH 150-WATT LAMP FOR EVERY 500 SQUARE FEET OF FLOOR SPACE AND A MINIMUM 1 PER ROOM. THE TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL.

FURNISH AND INSTALL POWER OUTLETS TO A TOTAL ONE FOR EVERY 2000 SQUARE FEET OR PART THEREOF OF FLOOR AREA AND THESE SHALL BE 20 AMP, SINGLE PHASE RECEPTACLES FOR EITHER 120 OR 240 VOLTS AS DIRECTED BY THE GENERAL CONTRACTOR. COORDINATE FOR ADDITIONAL TEMPORARY POWER REQUIREMENTS WITH OTHER TRADES AND PROVIDE AN ADEQUATE INSTALLATION.

COMPLY WITH NFPA 241 FOR SAFEGUARDING DURING CONSTRUCTION AND ALTERATION OPERATIONS. IN ADDITION, ANY OPENINGS IN FIRE RATED SEPARATIONS BETWEEN OCCUPIED AND UNOCCUPIED (OR OPERATIONAL AND NON-OPERATIONAL) AREAS SHALL BE SEALED AT THE END OF EACH WORK DAY WITH AN APPROPRIATE FIRE RATED ENCLOSURE OR SEALANT. DO NOT COMPROMISE EXISTING SECURITY OR FIRE ALARM SYSTEMS SERVING THE OCCUPIED OR OPERATIONAL AREAS.

18. BRANCH CIRCUIT CABLING

BRANCH CIRCUITS TO RECEPTACLES, LIGHTING AND MISC. SMALL LOADS (15 OR 20 AMP CIRCUITS), UNLESS SPECIFICALLY NOTED OTHERWISE, SHALL BE 2 #12 AND 1 #12G IN 3/4" C. A SEPARATE NEUTRAL AND GROUND SHALL BE RUN FOR EACH CIRCUIT. BRANCH CIRCUIT CABLE SIZING SHALL BE ADJUSTED BASED ON THE VALUES INDICATED BELOW:

- A. 120/208V CABLING FROM PANEL TO THE ELECTRICAL LOAD SHALL BE AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE:
- 0' - 100' #12 AWG MINIMUM
 - 100' - 200' #10 AWG MINIMUM
 - 200' - 250' #8 AWG MINIMUM
- B. 277/480V CABLING FROM PANEL TO THE ELECTRICAL LOAD SHALL BE AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE:
- 0' - 150' #12 AWG MINIMUM
 - 150' - 250' #10 AWG MINIMUM
 - 250' - 300' #8 AWG MINIMUM

19. SPECIAL LUG REQUIREMENTS

ANY CABLE WHICH TERMINATES DIRECTLY ON TO A BUS BAR SHALL BE 2 BOLT LONG BARREL TYPE WITH INSPECTION HOLES PRODUCED WITH NON FLASHING TYPE DYES AS MANUFACTURED BY THOMAS AND BETTS. MINIMUM 10 TONS OF COMPRESSION, HEX CRIMP. THE USE OF HEAT SHRINK TUBING IS EXPLICITLY FORBIDDEN. THERE SHALL BE NO EXPOSED UNINSULATED CONDUCTORS AT THE LUGS.

20. MOUNTING HEIGHTS FOR ELECTRICAL DEVICES

REFER TO SPECIFICATIONS FOR TYPICAL MOUNTING HEIGHTS FOR ELECTRICAL DEVICES. SPECIFIC MOUNTING HEIGHTS SHALL BE AS INDICATED ON PLANS.

21. INSPECTIONS

WIRING AND RACEWAYS SHALL NOT BE CONCEALED UNTIL IT HAS BEEN INSPECTED AND ACCEPTED BY THE CODE COMPLIANCE OFFICIAL. NOTICES POSTED IN OR ON ANY BUILDING BY THE CODE COMPLIANCE OFFICIAL SHALL BE REMOVED ONLY BY SAID OFFICIAL AFTER ACCEPTANCE OF WORK. PLANS SHOWING ELECTRICAL LAYOUTS SHALL BE AVAILABLE FOR SAID OFFICIAL ON PREMISES WHEN ROUGH-IN INSPECTION IS MADE.



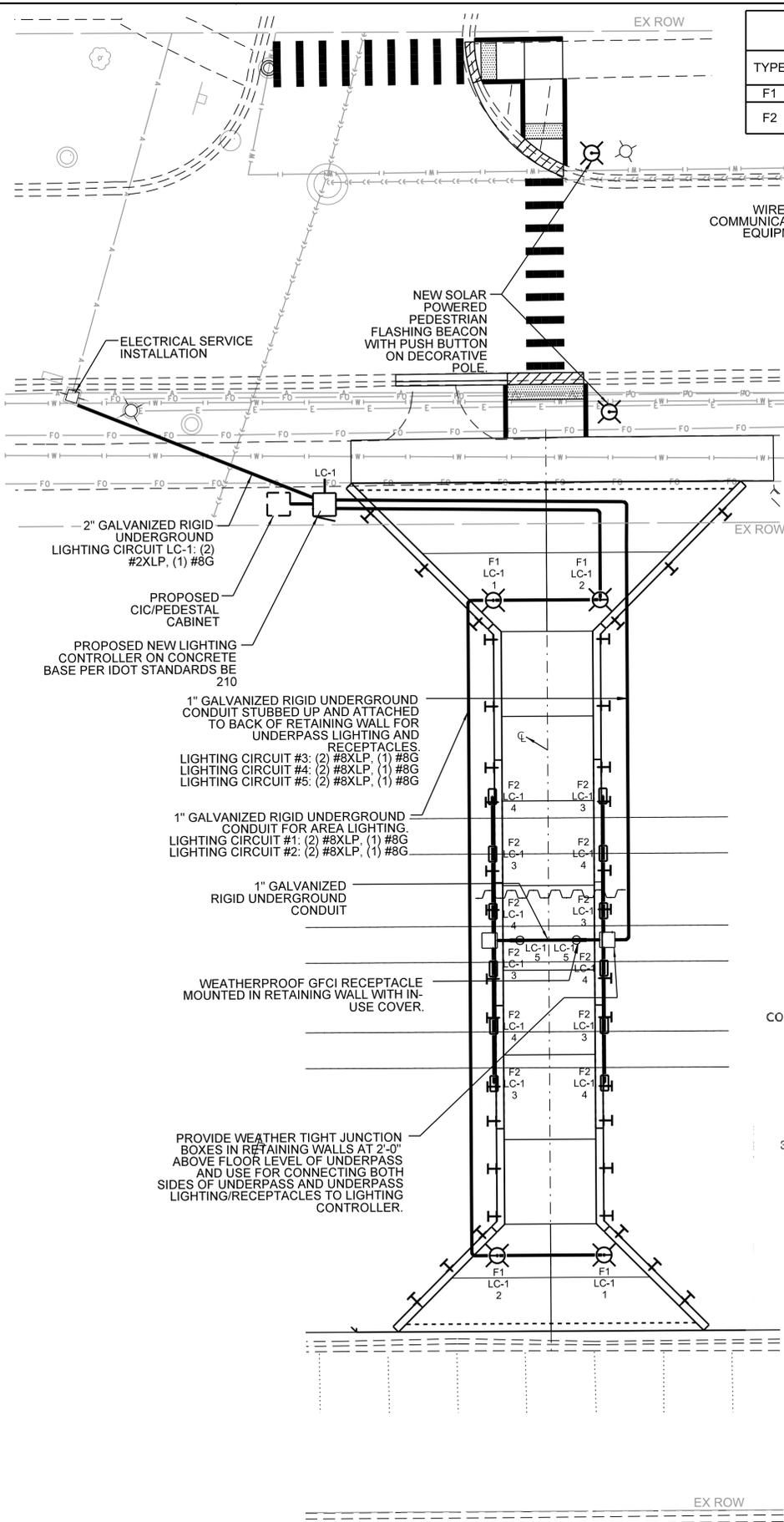
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DRAWN	-	RP	REVISED	-
CHECKED	-	JR	REVISED	-
DATE	-	02-11-2020	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

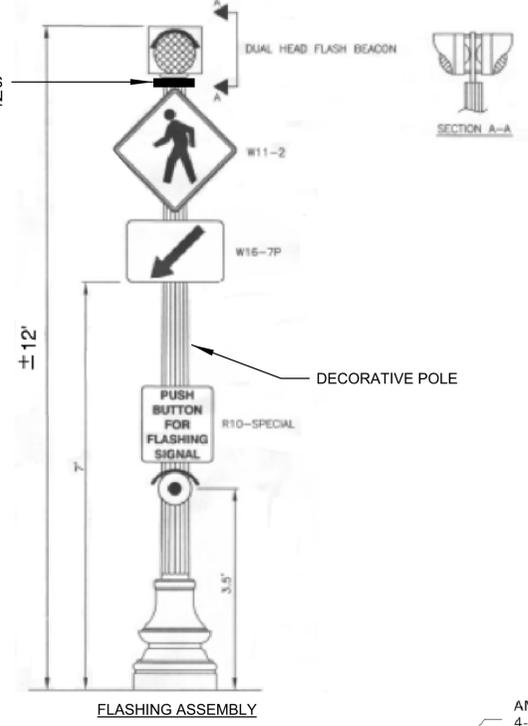
**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
ELECTRICAL SYMBOLS AND GENERAL NOTES**

SCALE: NTS SHEET 1 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3782 & 3783	18-00097-00-BR	COOK	52	21
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				



TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS		COLOR TEMPERATURE	FIXTURE		BALLAST	MOUNTING	NOTES
				QTY	TYPE		INPUT POWER	VOLTS			
F1	LED AREA LUMINAIRE	KING LUMINAIRE	K56-C-R1AR-III-60-SSL-1042-240-ET-K24-BK-TX-PR-3000K	1	LED	3000K	60 VA	120 V	ELECTRONIC	POLE	
F2	LED FLOOD LUMINAIRE	LITHONIA LIGHTING OR APPROVED EQUAL	DSXF2-LED-30K-MFL-MVOLT-YKC62-DBLXD	1	LED	3000K	54 VA	120 V	ELECTRONIC	SURFACE	



Location / Interconnection		System		Ratings			Material / Construction	
Location:	Proposed	Volts:	120/208 Wye	Fully Rated AIC Rating:	10000 A	Enclosure:	NEMA 3R	
Supply From:		Phases:	3	Main Device Type:	MCB	Mounting:	SURFACE	
Project Phase:		Wires:	4	Main Device Rating:	100 A	Entrance:	TOP	
				Main Bus Rating:	100 A			
				Ground Bus:	STANDARD			
				Neutral Bus:	STANDARD			
				Neutral Rating:	100.00%			
				SPD:	NONE			

CCT#	Circuit Description	EP...	Trip	Poles	A	B	C	Poles	Trip	EP...	Circuit Description	CCT#
1	AREA LIGHTING	1	20 A	1	120	324		1	20 A	1	UNDERPASS LIGHTING	2
3	AREA LIGHTING	1	20 A	1		120	324		1	20 A	UNDERPASS LIGHTING	4
5	UNDERPASS RECEPTACLES	1	20 A	1				360	500	1	COMMUNICATION UPS	6
7	SPARE	--	20 A	1	0	0				1	SPARE	8
9	SPARE	--	20 A	1		0	0			1	SPARE	10
11	SPARE	--	20 A	1				0	0	1	SPARE	12
13	SPACE	--	--	--	0	0				--	SPACE	14
15	SPACE	--	--	--		0	0			--	SPACE	16
17	SPACE	--	--	--				0	0	--	SPACE	18
19												20
21												22
23												24

Load Classification	Connected Load	Demand Factor	Estimated Demand	Total Panelboard Load
Lighting	888 VA	125.00%	1110 VA	1748 VA
Power	500 VA	100.00%	500 VA	1970 VA
Receptacle	360 VA	100.00%	360 VA	1970 VA
				5 A
				5 A
				5 A

Panel Notes
1. Circuits 19,20,21,22,23,24 are not actual circuits within panelboard. These are for calculation purposes only and used to display 30-Day or 2-Year metered load.

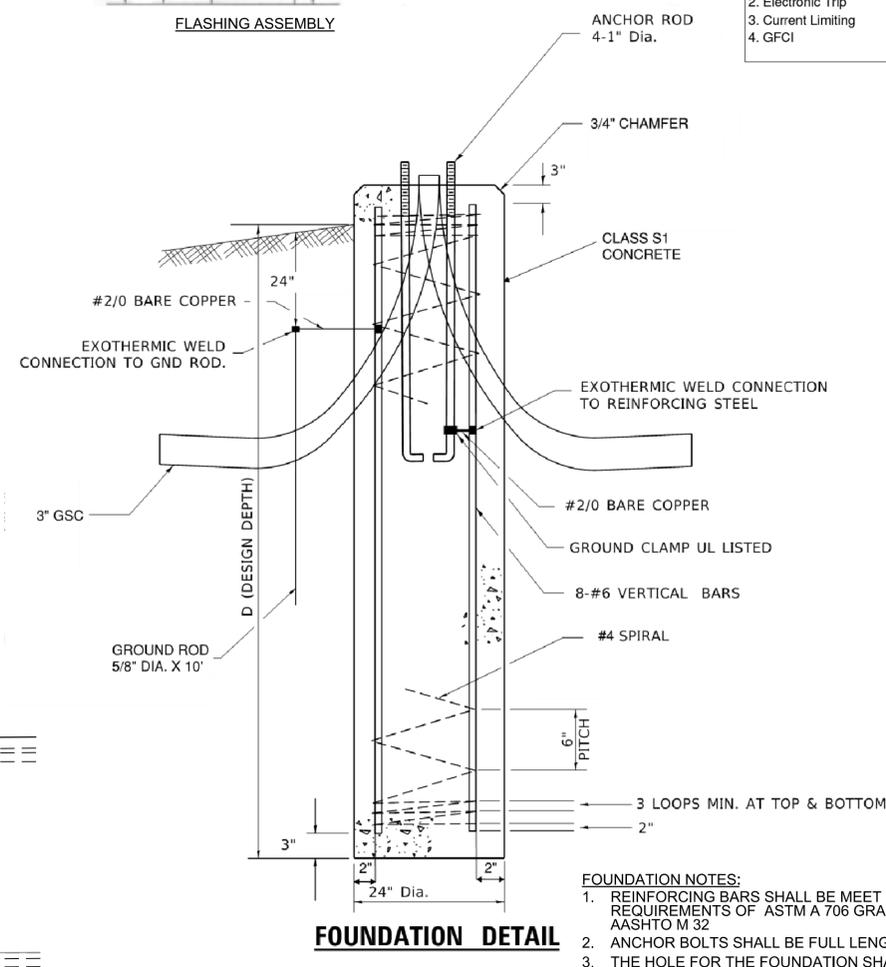
Breaker Notes

1. Thermal Magnetic Trip	5. GFEP	9. Integral Lighting Relay	13. Listed Handle Tie
2. Electronic Trip	6. AFCI	10. Alarm Switch	14. Lock-out Device
3. Current Limiting	7. Shunt Trip	11. Key Interlock	15. Existing Breaker to Remain
4. GFCI	8. Aux Contacts	12. Zone Selective Interlocking	16. New Breaker to Replace Existing Breaker or Space

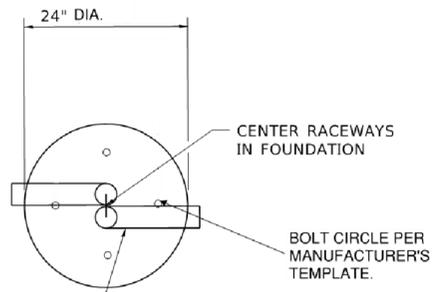
APPLICABLE SPECIFICATION SECTIONS FOR ELECTRICAL:

- SECTION 801. ELECTRICAL REQUIREMENTS
- SECTION 804. ELECTRICAL SERVICE INSTALLATION - LIGHTING
- SECTION 806. GROUNDING
- SECTION 810. UNDERGROUND RACEWAYS
- SECTION 811. EXPOSED RACEWAYS
- SECTION 812. RACEWAYS EMBEDDED IN STRUCTURE
- SECTION 813. JUNCTION BOXES
- SECTION 814. HANDHOLE
- SECTION 817. CABLE IN RACEWAY
- SECTION 821. ROADWAY LUMINAIRES 830
- SECTION 836. POLE FOUNDATION
- SECTION 838. BREAKAWAY DEVICES
- SECTION 1065. PROTECTIVE DEVICES
- SECTION 1066. WIRE AND CABLE
- SECTION 1067. LUMINAIRE
- SECTION 1069. POLE AND TOWER
- SECTION 1070. FOUNDATION AND BREAKWAY DEVICES
- SECTION 1086. ELECTRICAL SERVICE INSTALLATION
- SECTION 1087. GROUNDING
- SECTION 1088. WIREWAY AND CONDUIT SYSTEM

- NOTES:**
- BID ALTERNATE: PROVIDE COLOR CHANGING, WET LOCATION, LED TAPE LIGHT IN A SEALED CHANNEL MOUNTED ALONG PEDESTRIAN TUNNEL.
 - STANDARD DETAILS FOR ELECTRICAL IDENTIFIED ON GENERAL NOTES SHEETS.
 - AT EACH CROSSING LOCATION, ALL INSTALLED SOLAR POWERED FLASHING BEACON ASSEMBLIES MUST COMMUNICATE WIRELESSLY USING AN UNLICENSED RADIO BAND SO AS TO SIMULTANEOUSLY COMMENCE OPERATION OF THEIR ALTERNATING FLASHING INDICATIONS AND CEASE OPERATION SIMULTANEOUSLY. THE COMMUNICATION EQUIPMENT SHALL COMPLY WITH FCC REQUIREMENTS AND THE VENDOR REPRESENTATIVE SHALL FIELD TEST THE EQUIPMENT PRIOR TO PLACING THE UNITS IN OPERATION. THE WIRELESS COMMUNICATIONS OF ONE BEACON INSTALLATION SHALL NOT INTERFERE WITH, OR CAUSE UNINTENDED OPERATION OF, BEACONS AT NEARBY INTERSECTIONS.
 - THE CONTRACTOR SHALL PERFORM AN EXPLORATORY DIG IN THE SOUTH PARKWAY OF HILLGROVE AVE. THIS SHALL CONSIST OF HAND DIGGING TO VERIFY THE LOCATION AND THE ELEVATION OF THE FIBER OPTIC DUCTBANK, WATERMAIN, ELECTRICAL, SANITARY, AND STORM UTILITIES. THIS WORK SHALL BE COORDINATED WITH THE VILLAGE OF WESTERN SPRING AND CENTURY LINK. ADVANCE NOTICE OF 48 HOURS SHALL BE PROVIDED TO THE VILLAGE AND CENTURY LINK PRIOR TO THIS WORK BEING PERFORMED. THIS SHALL BE PAID FOR UNDER THE PAY ITEM XX005604 HAND DIGGING, 0 FT TO 5 FT IN UNPAVED AREAS.
 - FOUNDATION FOR SOLAR POWER SHALL BE SIMILAR TO THE LIGHT POLE FOUNDATION



- FOUNDATION NOTES:**
- REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A 706 GRADE 60 AND AASHTO M 32
 - ANCHOR BOLTS SHALL BE FULL LENGTH GALVANIZED.
 - THE HOLE FOR THE FOUNDATION SHALL BE AUGERED



TOP VIEW

FOUNDATION SCHEDULE	STANDARDS	EMBEDMENT
SOFT CLAY	Qu=0.25 TO 0.5 tons/sq ft	9' - 8"
MEDIUM CLAY	Qu=0.50 TO 1.00 tons/sq ft	7' - 0"
DENSE CLAY	Qu=1.00 TO 2.00 tons/sq ft	6' - 0"
LOOSE SAND	N = 4 TO 10	7' - 8"
MEDIUM SAND	N = 10 TO 30	6' - 6"
DENSE SAND	N = 30 TO 50	6' - 0"



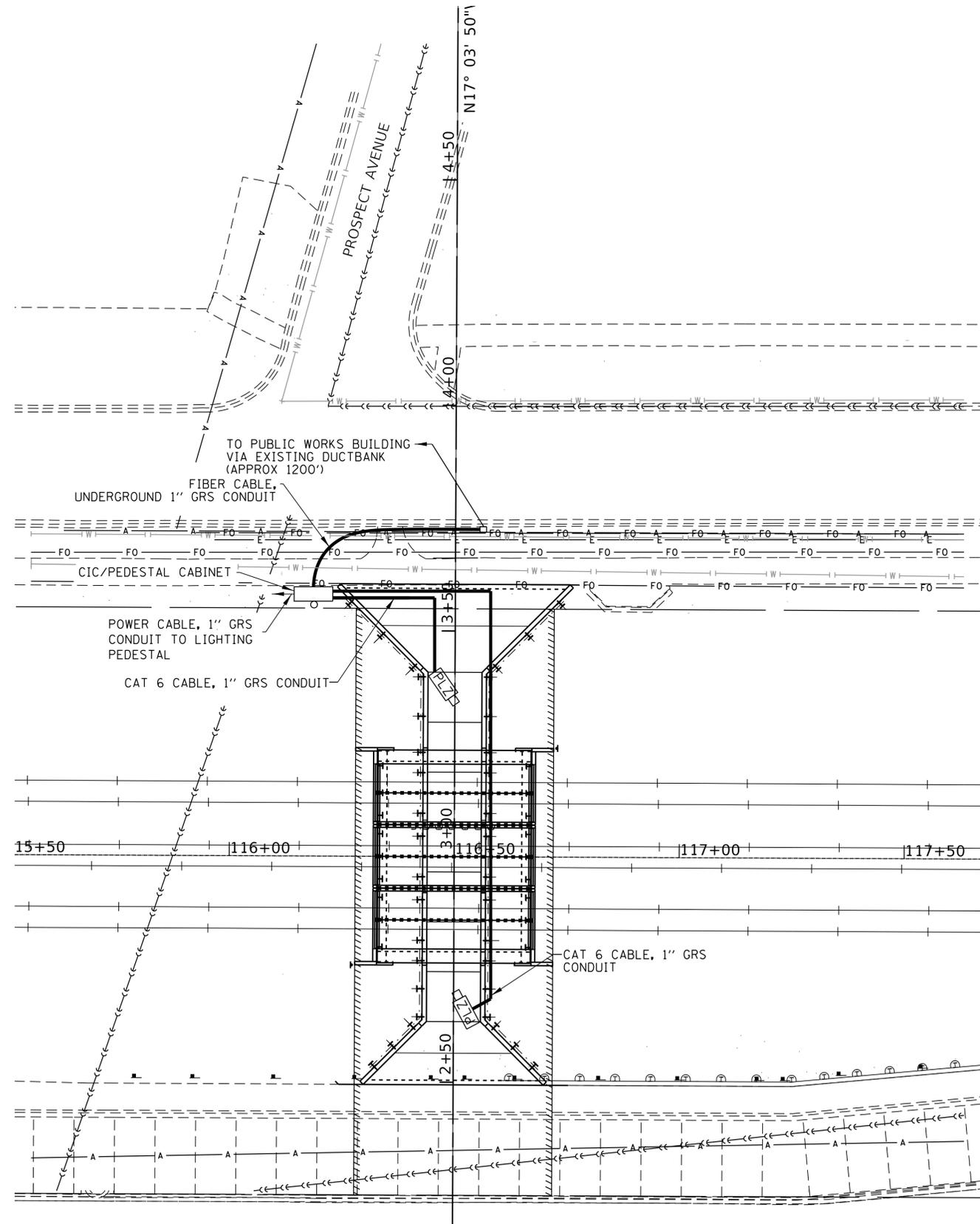
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DRAWN - DR	REVISED - RP
CHECKED - JK	REVISED - JR
DATE - 02-11-2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
LIGHTING PLAN

SCALE: NTS SHEET 2 OF 2 SHEETS

F.A.U. RT. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 22
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				



NOTES:

1. INSTALL CAMERAS AFTER LIGHT STRUCTURE TO NOT HAVE ANY INTERFERENCE IN CAMERA VIEW.
2. PEDESTAL POWER WILL BE PROVIDED FROM LIGHTING CONTROL PANEL LC1.
3. THE CONTRACTOR SHALL PERFORM AN EXPLORATORY DIG IN THE SOUTH PARKWAY OF HILLGROVE AVE. THIS SHALL CONSIST OF HAND DIGGING TO VERIFY THE LOCATION AND ELEVATION OF THE FIBER OPTIC DUCTBANK, WATERMAIN, ELECTRICAL, SANITARY, AND STORM UTILITIES. THIS WORK SHALL BE COORDINATED WITH THE VILLAGE OF WESTERN SPRING AND CENTURY LINK. ADVANCE NOTICE OF 48 HOURS SHALL BE PROVIDED TO THE VILLAGE AND CENTURYLINK PRIOR TO THIS WORK BEING PERFORMED. THIS SHALL BE PAID FOR UNDER THE PAY ITEM XX005604 HAND DIGGING, 0 FT TO 5 FT IN UNPAVED AREAS.
4. CLOSED CIRCUIT TELEVISION (CCTV) CAMERA, IWSU ASSEMBLY SHALL BE PAID FOR AS LUMP SUM.



DESIGNED - A. SHAMOON
 DRAWN - C. JURKIEWICZ
 CHECKED - A. SIZAR
 DATE - 02-11-2020

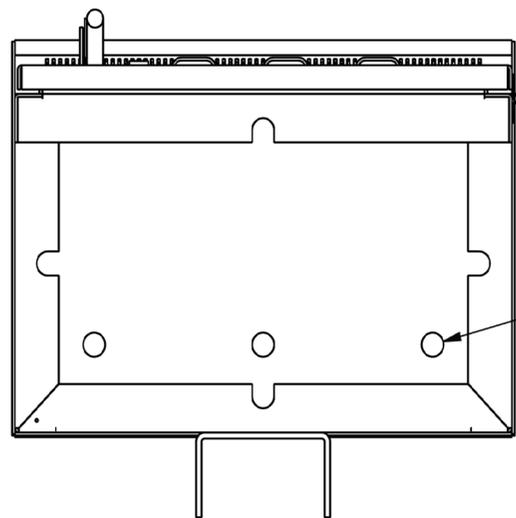
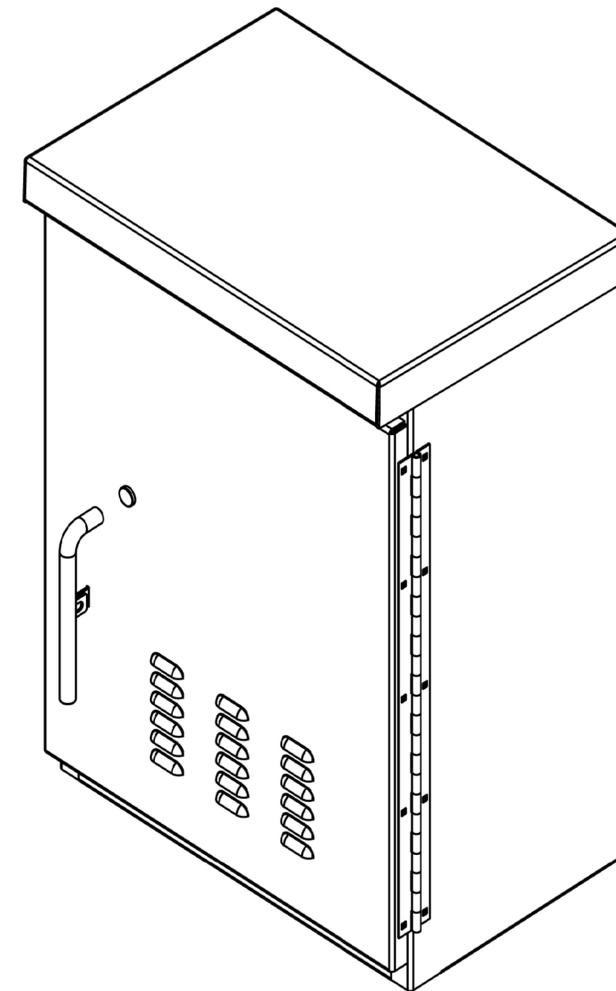
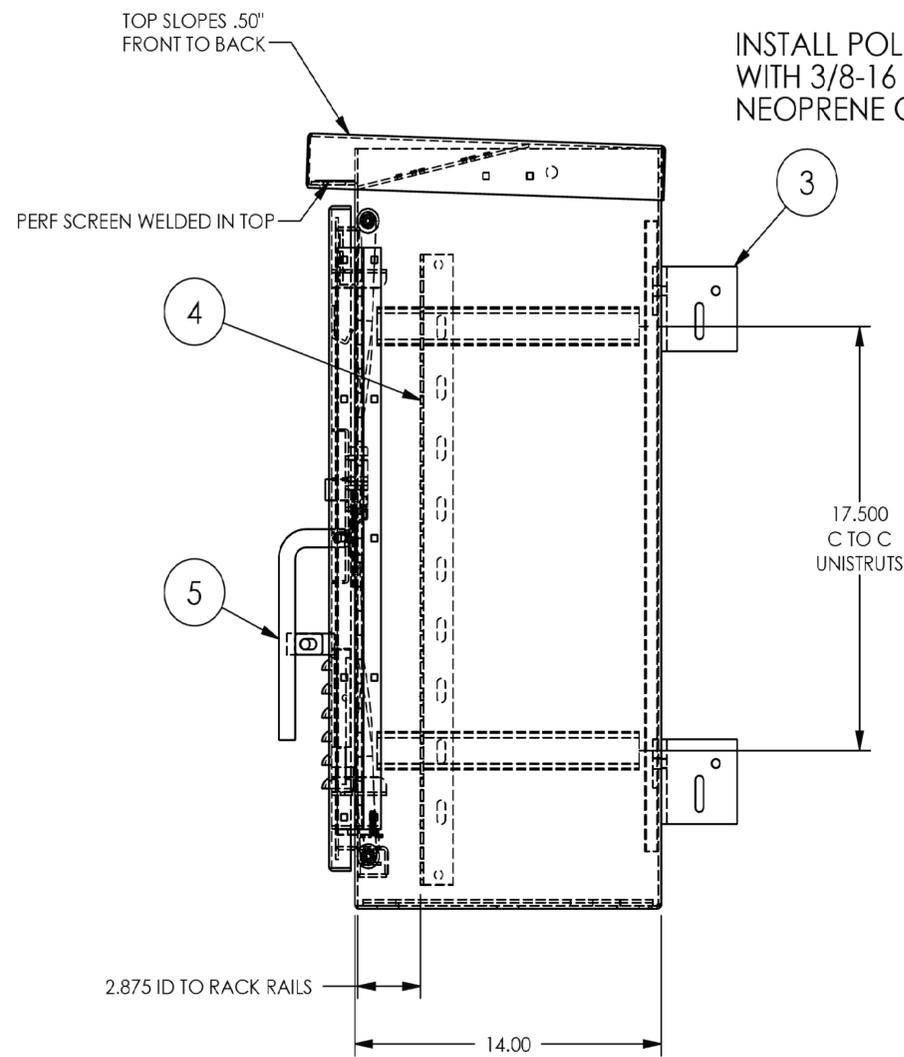
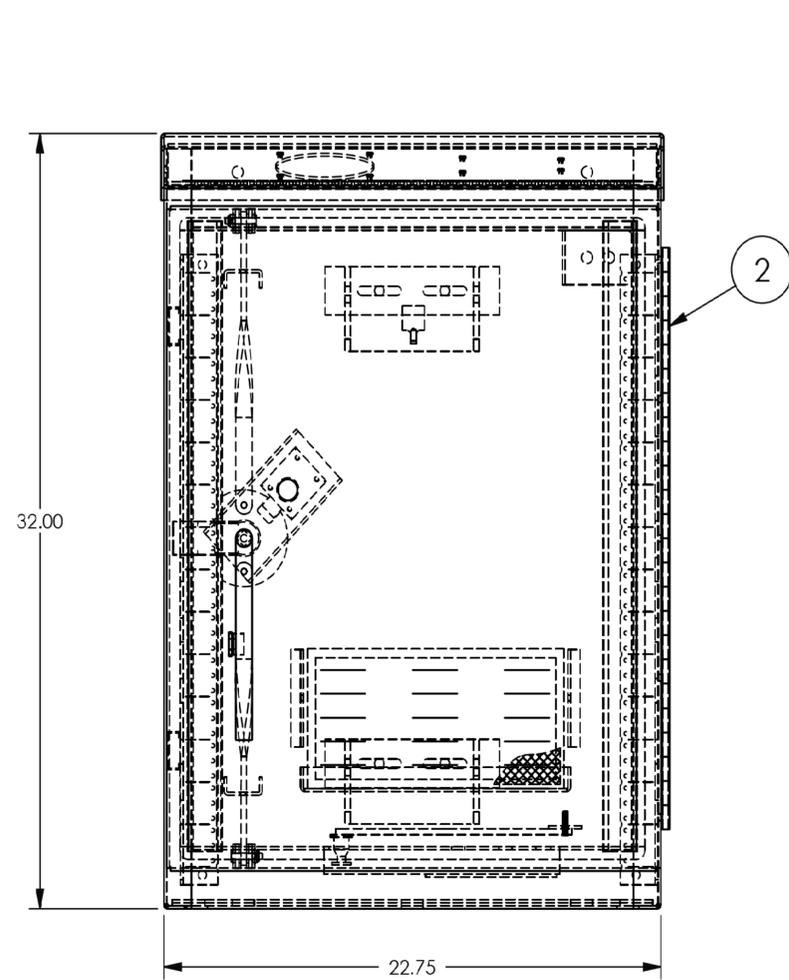
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
 CCTV LOCATIONS AND CONDUIT LAYOUT**

SCALE: NTS SHEET 1 OF 4 SHEETS

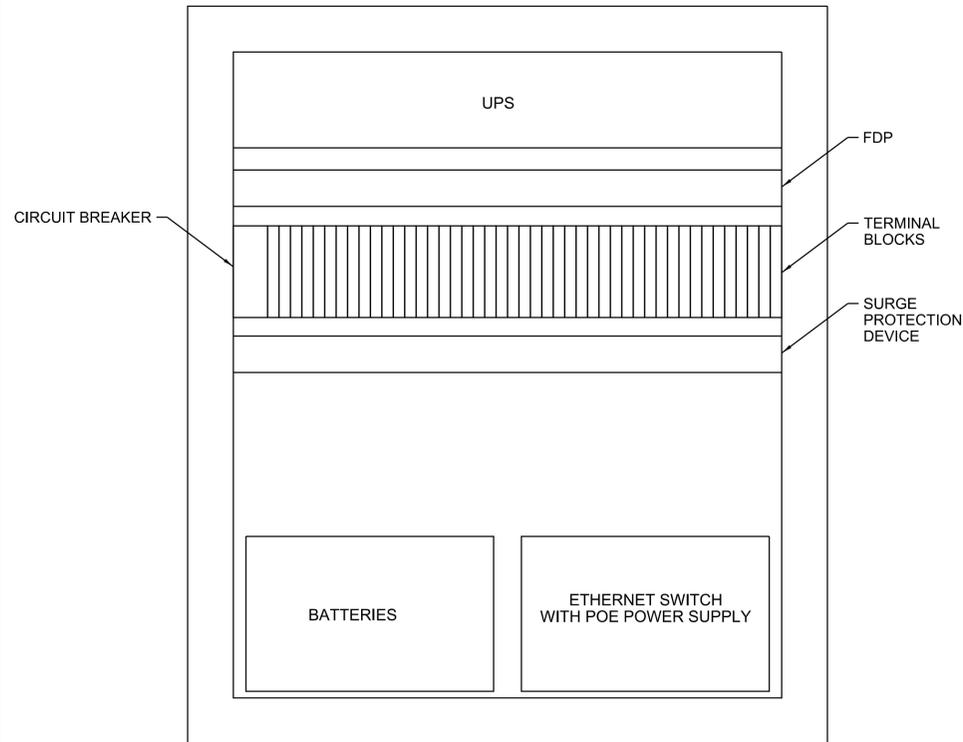
F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 23
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				



(3X) Ø 1.000
IN SOLID DOUBLE STACKED BOTTOM PLATE

ITEM NO.	DESCRIPTION	QTY.
1	POLE MOUNT, FAN PLATE, 1" HOLES IN BOT PLATE	1
2	DOOR HARDWARE	1
3	POLE MOUNT BRACKET	2
4	26" TALL RAIL	2
5	DOOR ASSEMBLY	1

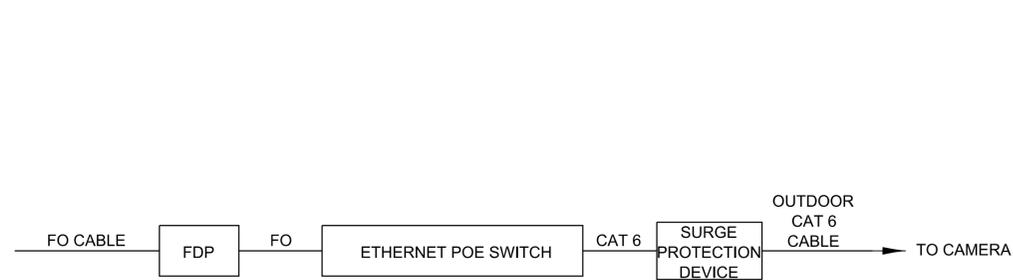
CCTV CABINET



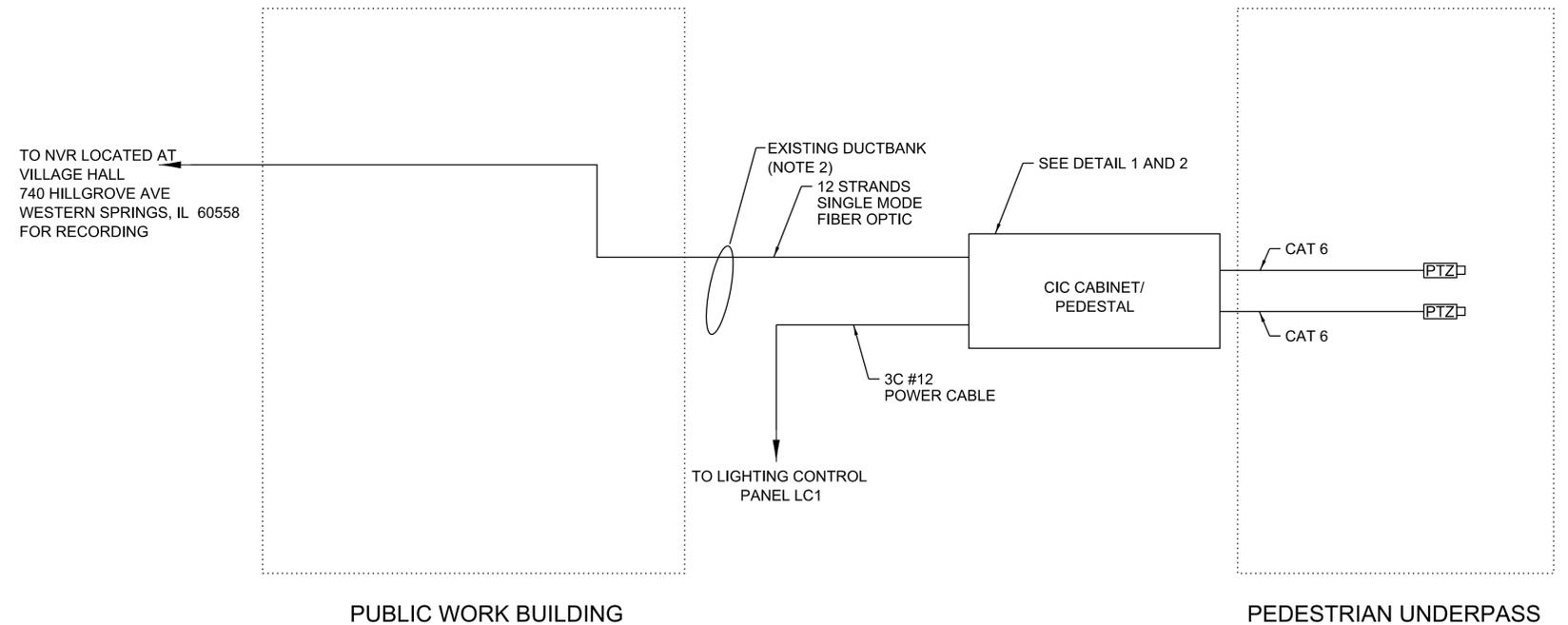
ITEM #	PRODUCT NAME	MODEL	MANUFACTURER	QUANTITY	UNIT
1	CCTV CAMERA	SNC-EM602RC	SONY	2	EA
2	WALL MOUNTED BRACKET	UNI-WMB4	SONY	2	EA
3	WALL/POLE MOUNTED ADAPTER	UNI-BBB2	SONY	2	EA
4	STAR TECH 8-PORT POE+ GIGABITE ETHERNET SWITCH PLUS 2 SFP CONNECTIONS - MANAGED	IES101GP2SFW	STARTECH	1	EA
5	24 VDC POWER SUPPLY	DSP100-24	TKD-LAMBDA	1	EA
6	FIBER DISTRIBUTION PANEL	N/A	N/A	1	EA
7	SURGE PROTECTION DEVICE	DTK-MRJPOE	DITEK	2	EA
8	OUTDOOR RATED CAT 6 CABLE	7953A OR APPROVED EQUAL	BELDEN	200	FT
9	12 STRAND SINGLE MODE OUTDOOR FIBER CABLE, ARMORED	012E8F-31131-29	CORNING OR APPROVED EQUAL	1400	FT
10	RUGGED UPS MODULE (OPTIONAL)	FXM 650	ALPHA TECHNOLOGIES	1	EA
11	BATERIES	N/A	N/A	1	EA
12	CABINET	N/A	N/A	1	EA

- NOTES:**
1. CONTRACTOR SHALL VERIFY THE SPARE BREAKER IN EXISTING POWER PANEL.
 2. CONTRACTOR SHALL CONDUCT FILED SURVEY TO VERIFY SPARE CONDUITS IN EXISTING DUCTBANK.

DETAIL 1



DETAIL 2



PEDESTRIAN UNDERPASS CCTV SYSTEM BLOCK DIAGRAM



DESIGNED - A. SHAMOON
 DRAWN - C. JURKIEWICZ
 CHECKED - A. SIZAR
 DATE - 02-11-2020

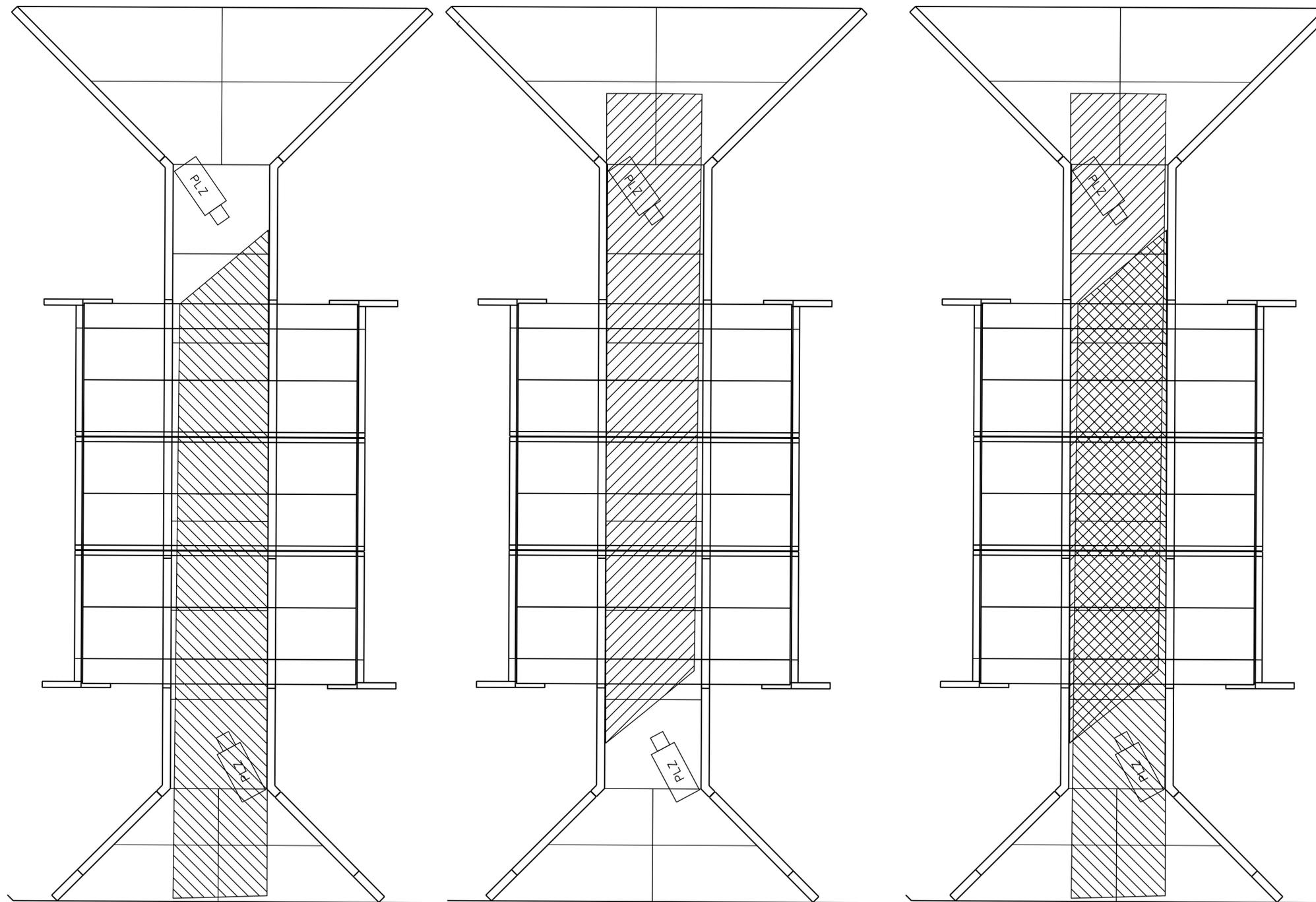
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
 CIC/PEDESTAL DETAILS**

SCALE: NTS SHEET 3 OF 4 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 25
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				



CAMERA 1 COVERAGE

CAMERA 2 COVERAGE

BOTH CAMERAS COVERAGE



DESIGNED - A. SHAMOON
 DRAWN - C. JURKIEWICZ
 CHECKED - A. SIZAR
 DATE - 02-11-2020

REVISED -
 REVISED -
 REVISED -
 REVISED -

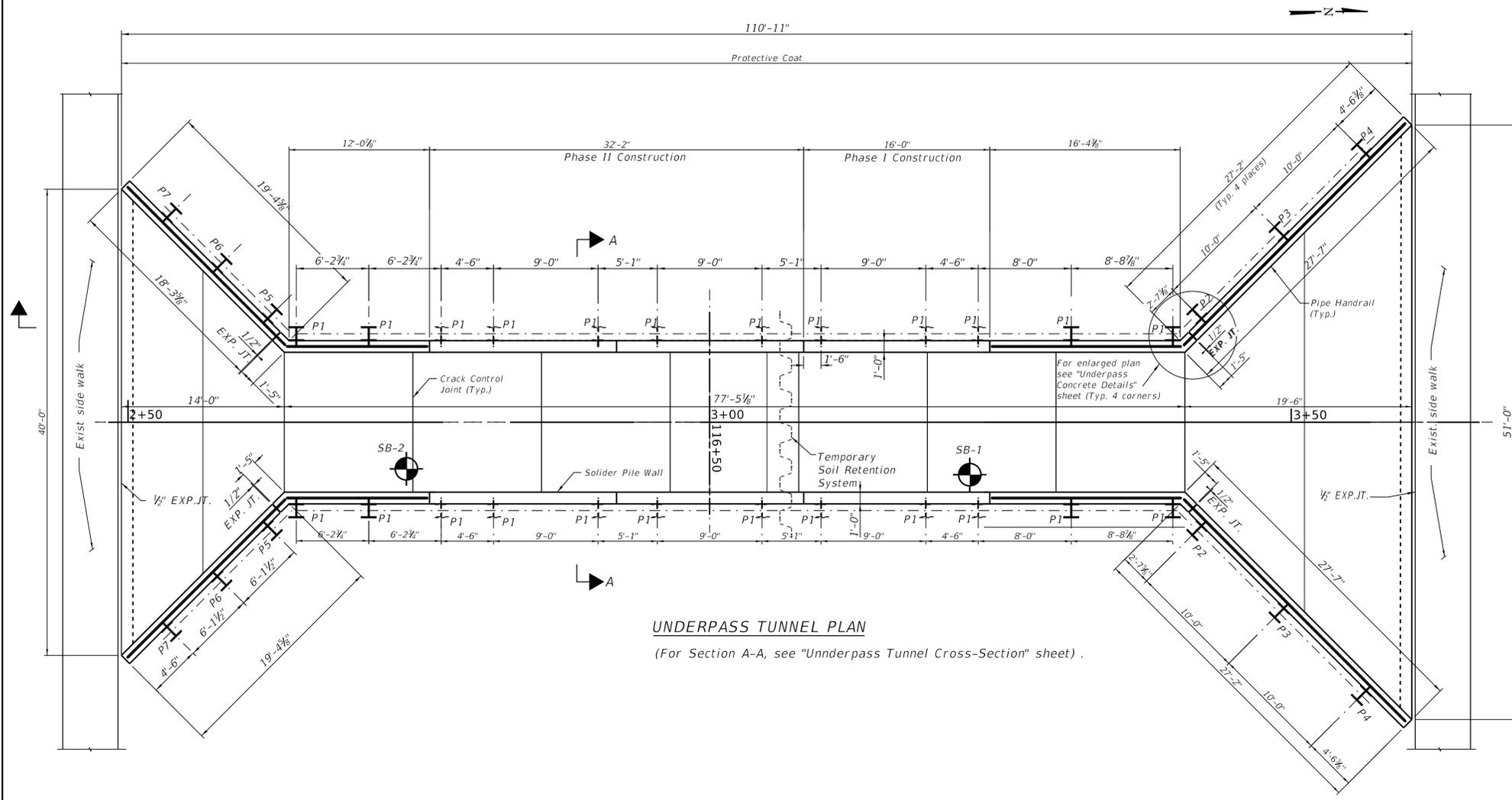
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
 CCTV COVERAGE**

SCALE: NTS

SHEET 4 OF 4 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 26
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				



STRUCTURE NUMBER:
016-P018

DESIGN SPECIFICATIONS:

AASHTO LRFD Bridge Design Specifications 8th Edition, 2017
AREMA Manual for Railway Engineering, 2013
LRFD Guide Specifications for the Design of Pedestrian Bridges.

DESIGN STRESSES:

Concrete: Class S1 ($f'_c = 3,500$ psi).
Reinforcing Steel: Epoxy Coated, Grade 60 ($f_y = 60,000$ psi)
Steel Pipe: ASTM A53, Grade B ($f_y = 35,000$ psi)

DESIGN LOADS:

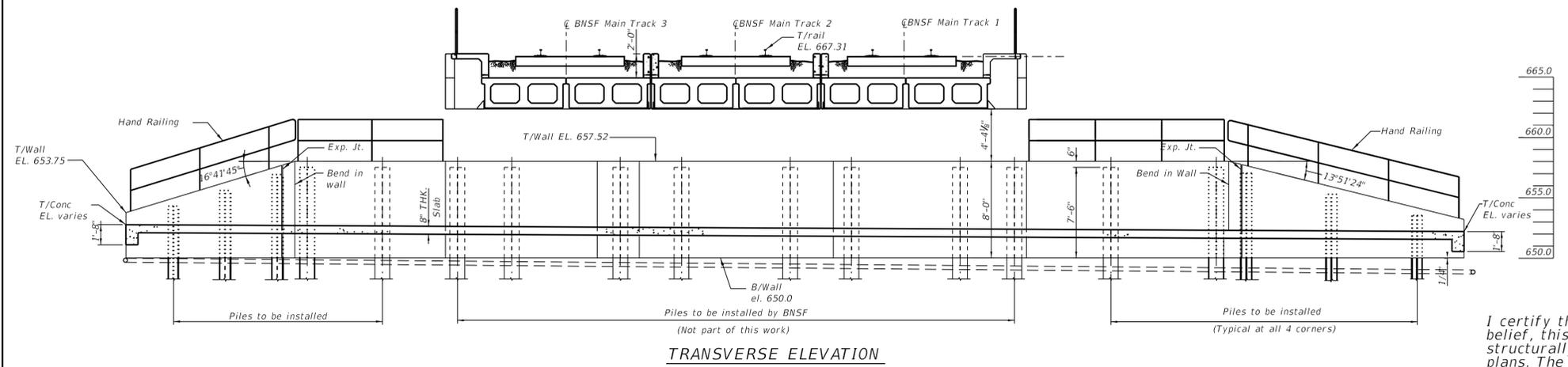
Train Live Load: Cooper E80
Pedestrian Live Load: 90 psf or H10
Handrail Live Load: 50 plf or 200#

SEISMIC DATA:

PGA: 0.045 g
Site Class D
As: 0.072 g

BILL OF MATERIAL

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
20700220	POROUS GRANULAR EMBANKMENT	Cu. Yd.	273
50200100	STRUCTURE EXCAVATION	Cu. Yd.	953
50300225	CONCRETE STRUCTURES	Cu. Yd.	50
50300300	PROTECTIVE COAT	Sq. Yd.	328
50500505	STUD SHEAR CONNECTORS	Each	264
50800205	REINFORCEMENT BARS, EPOXY COATED	Pound	8,990
50800515	BAR SPLICERS	Each	36
50901760	PIPE HANDRAIL	Foot	127
51100100	SLOPE WALL 4	Sq. Yd.	155
51201900	FURNISHING SOLIDER PILES(HP SECTION)	Foot	656
51203900	DRIVING SOLIDER PILES	Foot	656
52200250	UNTREATED TIMBER LAGGING	Sq. Ft.	2,418
52200900	CONCRETE STRUCTURES (RETAINING WALL)	Cu. Yd.	66.5
59100100	GEOCOMPOSITE WALL DRAIN	Sq. Yd.	200
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	Foot	248



SOLDIER PILE SCHEDULE

Pile No.	Size	Top EL.	Bott.EL.	Driving Length	Cut-off El.	Studs
P1	8 HP14x117	667.31	630.01	37.3	661.50	8
P2	2 HP14x89	667.31	636.84	30.47	661.50	7
P3	2 HP14x89	667.31	636.84	30.47	661.50	6
P4	2 HP14x89	667.31	638.77	28.54	661.50	5
P5	2 HP14x89	667.31	636.84	30.47	661.50	7
P6	2 HP14x89	667.31	636.84	30.47	661.50	6
P7	2 HP14x89	667.31	638.77	28.54	661.50	5

I certify that to the best of my knowledge information and belief, this underpass soldier pile walls 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 requirements of the current "AASHTO LRFD Specifications".



04/29/2020

Arthur Nowak

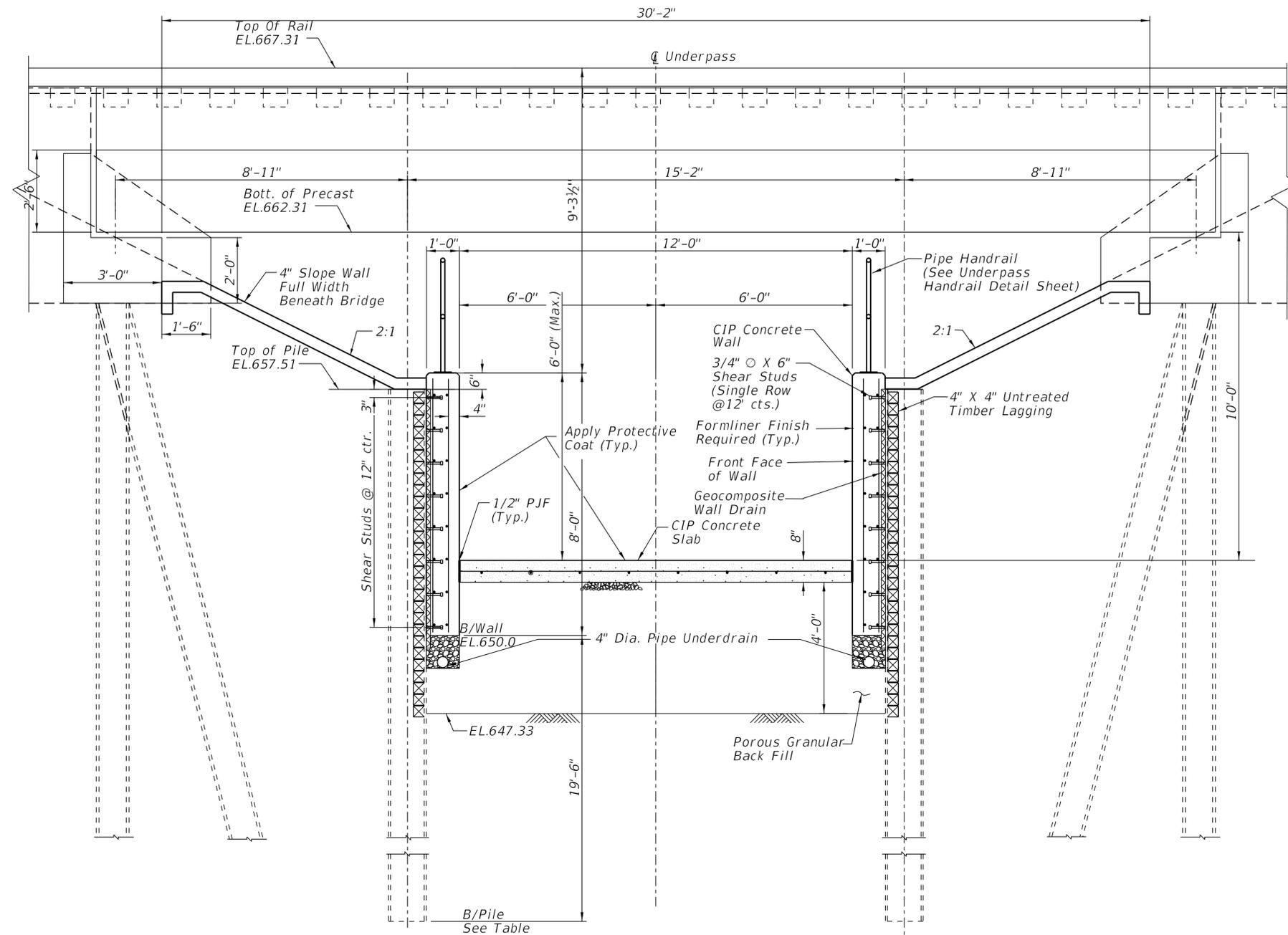


DESIGNED - RH	REVISED -
DRAWN - JK	REVISED -
CHECKED - AJN	REVISED -
DATE - 02-11-2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
UNDERPASS PLAN & TRANSVERSE ELEVATION
SCALE: 3/16"=1'-0" SHEET 1 OF 7 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 27
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				



SECTION A

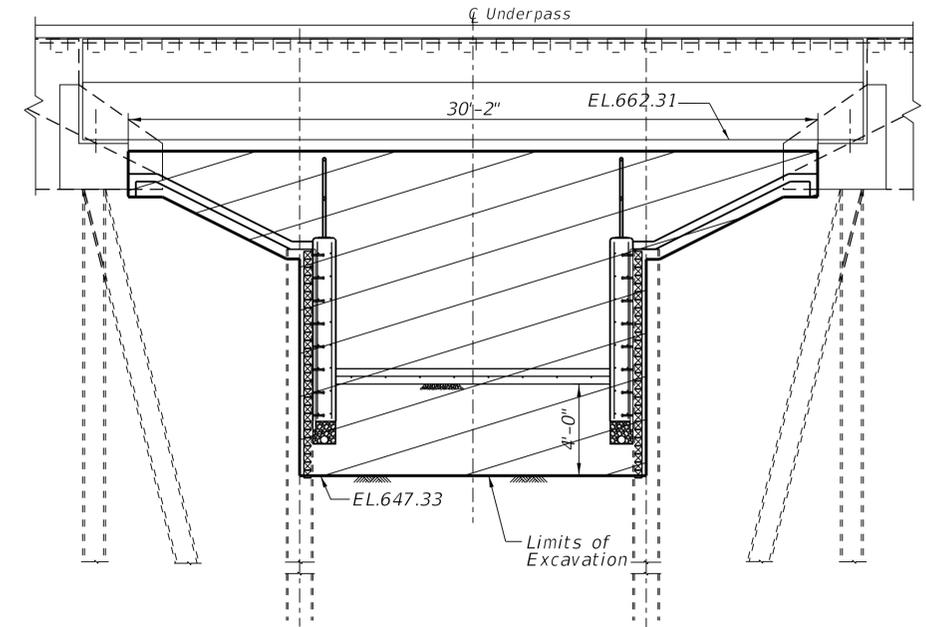
Abbreviations :

- EXP.JT. Expansion joint
- P/JF Preformed joint filler
- E.L. Elevation
- W.P. Working point
- T/ Top
- Bott. Bottom
- CL Center Line
- O.C. On center
- CIP Cast-in-place
- E.F. Each face
- Dia. Diameter
- Typ. Typical
- Cts. Centers



04/29/2020

Arthur Nowak



Structure Excavation

GENERAL NOTES

CAST-IN-PLACE CONCRETE

All exposed concrete edges shall have a 3/4" x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground level.

REINFORCEMENT BARS

Reinforcement bars, including epoxy-coated reinforcement bars, shall conform to the requirements of AASHTO M-31 (ASTM A706), Grade 60, deformed bars.

Reinforcement bars designated "(E)" shall be epoxy coated.

Reinforcement bar bending details shall be in accordance with the latest "Manual of Standard Practice For Detailing Reinforced Concrete Structures", ACI 315.

Reinforcement bar bending dimensions are out to out .

Cover from the face of concrete to face of reinforcement bars shall be 3" for surfaces formed against earth and 2" for all other surfaces unless otherwise shown.

CONSTRUCTION

Piles identified on "Underpass Plan & Transverse Elevation" sheet shall be installed in this Contract. The rest of the piles for Western Springs underpass are to be installed by the BNSF forces.

Top of pile cut off elevations for the soldier pile wall need to be adjusted by the Contractor. The work associated with cutting piles to elevations shown in the plans is included with " Concrete Structures (Retaining Wall) ".

Porous Granular backfill shall be placed under the cast in place concrete slab on grade in the underpass tunnel area.

Protective coat to be applied to front face of soldier pile walls and slab on grade.

Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.

No construction or expansion joints except those shown on the plans shall be allowed unless approved by the Engineer.

Slope wall shall be reinforced with welded wire fabric , 6in. X 6in. - W4.0 X W 4.0 weighing 58 lbs. per 100 sq.ft.

According to geotechnical report prepared by GSG Consultants, INC., dated November 19, 2019 soil improvements under Slab-on-Grade in the underpass area will be required. See Section 4.4 for specific requirements.

Contractor shall monitor top of rail elevation during construction. Contractor may use bench marks, survey points or similar to facilities monitoring activities.



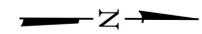
DESIGNED - RH	REVISED -
DRAWN - JDK	REVISED -
CHECKED - AJN	REVISED -
DATE - 02-11-2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
UNDERPASS TUNNEL CROSS-SECTION AND GENERAL NOTES

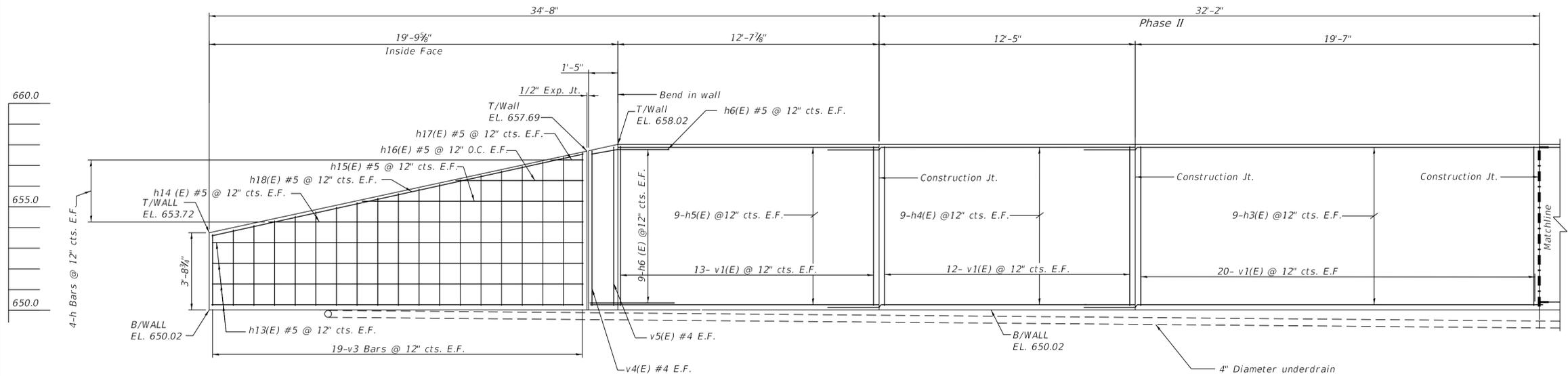
SCALE: 1/2"=1'-0" SHEET 2 OF 7 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 28
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				

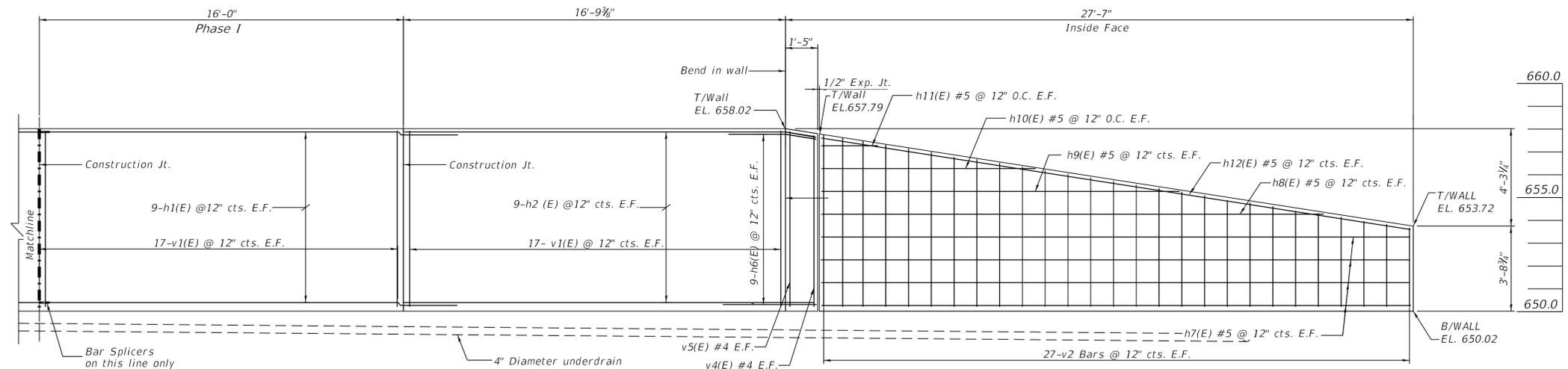


BILL OF MATERIAL

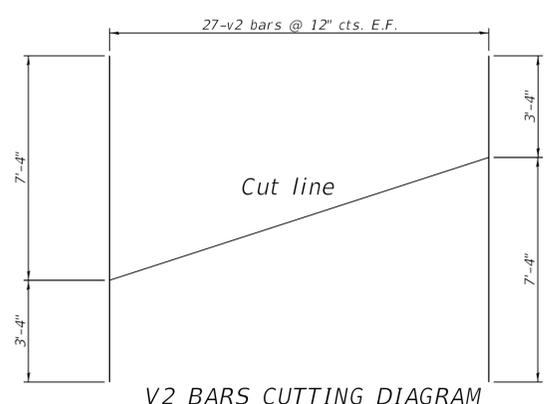
BAR	NO.	SIZE	LENGTH	SHAPE
h1 (E)	36	#5	18'-4"	—
h2 (E)	36	#5	16'-10"	—
h3 (E)	36	#5	21'-11"	—
h4 (E)	36	#5	15'-0"	—
h5 (E)	36	#5	12'-7"	—
h6 (E)	72	#5	3'-9"	—
h7 (E)	16	#5	25'-9"	—
h8 (E)	4	#5	21'-6"	—
h9 (E)	4	#5	15'-2"	—
h10 (E)	4	#5	8'-7"	—
h11 (E)	4	#5	2'-2"	—
h12 (E)	4	#5	26'-1"	—
h13 (E)	12	#5	17'-11"	—
h14 (E)	4	#5	14'-11"	—
h15 (E)	4	#5	10'-5"	—
h16 (E)	4	#5	5'-11"	—
h17 (E)	4	#5	1'-4"	—
h18 (E)	4	#5	18'-5"	—
v1 (E)	320	#4	7'-7"	—
v2 (E)	54	#4	7'-4"	—
v3 (E)	38	#4	7'-4"	—
v4 (E)	8	#4	7'-9"	—
v5 (E)	8	#4	7'-7"	—
Reinforcement Bars, Epoxy Coated		Pound	6,790	
Concrete Structures (Retaining Wall)		Cu. Yd.	66.5	



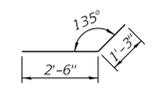
WALL REINFORCEMENT



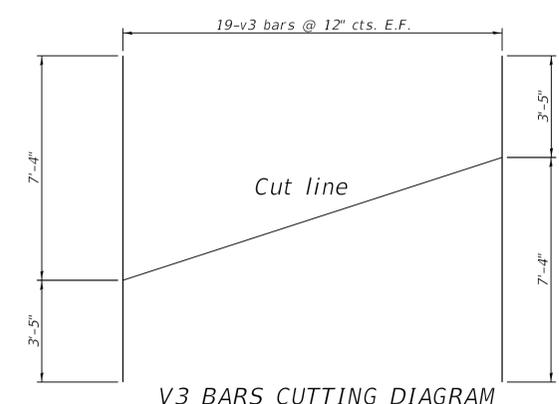
WALL REINFORCEMENT



V2 BARS CUTTING DIAGRAM



BAR h6



V3 BARS CUTTING DIAGRAM



02/11/2020

Arthur Nowak

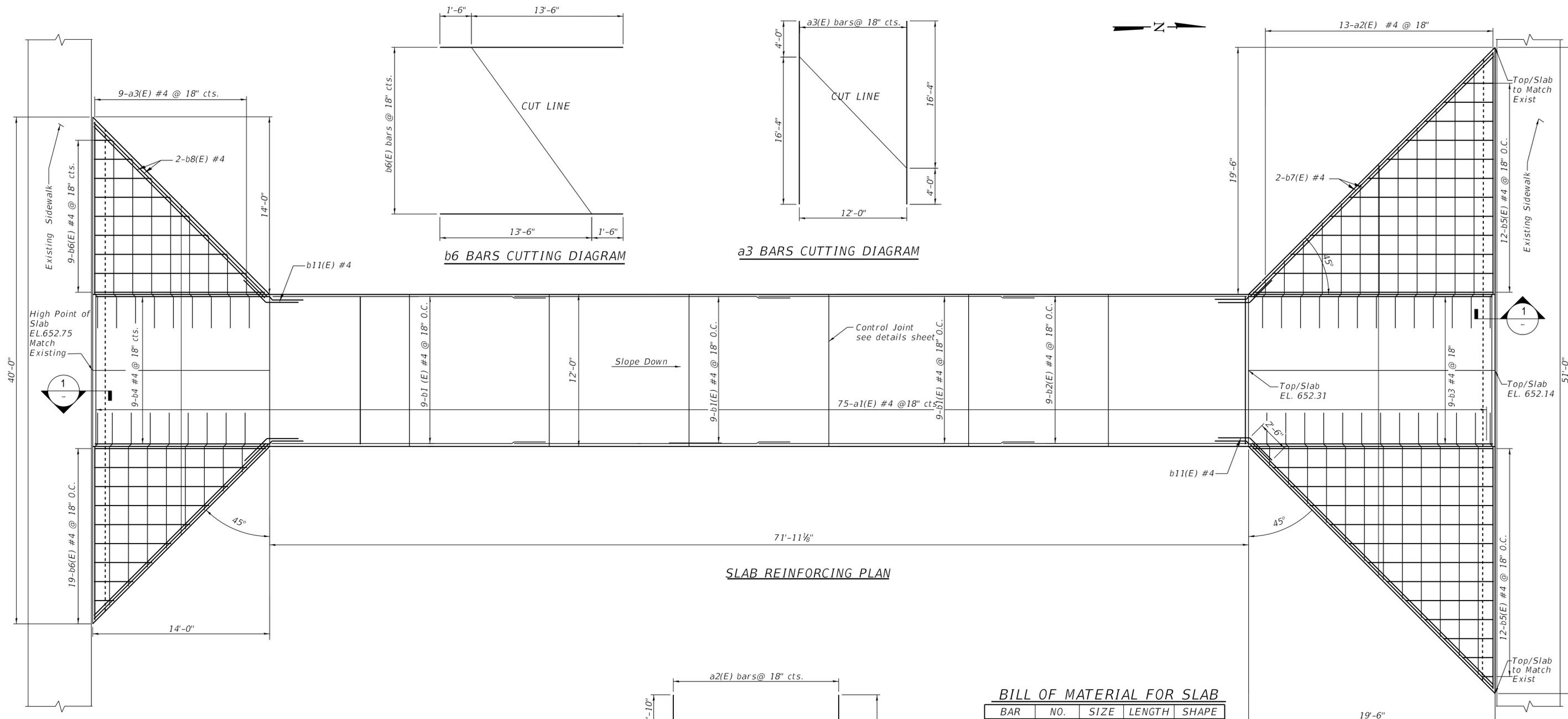


DESIGNED - RH	REVISED -
DRAWN - JDK	REVISED -
CHECKED - AJN	REVISED -
DATE - 02-11-2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
UNDERPASS WALL REINFORCING**
SCALE: 3/8"=1'-0" SHEET 3 OF 7 SHEETS

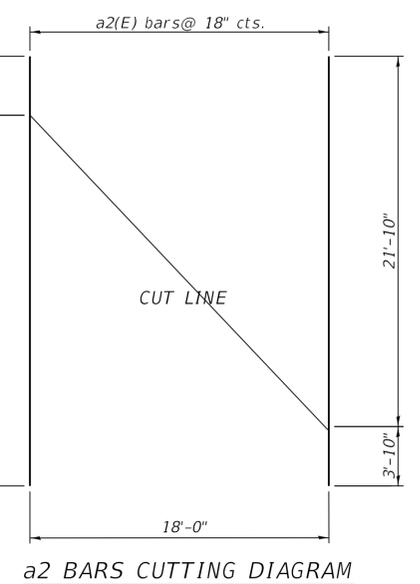
F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 29
			CONTRACT NO. 61G33	
ILLINOIS FED. AID PROJECT				



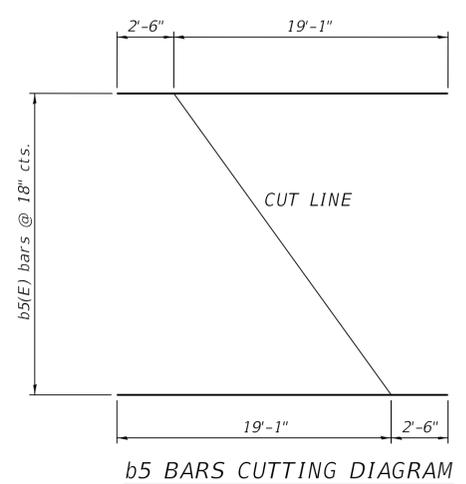
a3 BARS CUTTING DIAGRAM

b6 BARS CUTTING DIAGRAM

SLAB REINFORCING PLAN



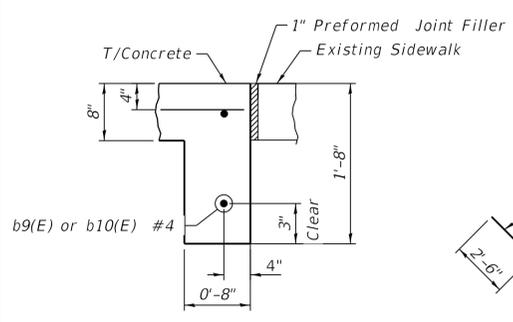
a2 BARS CUTTING DIAGRAM



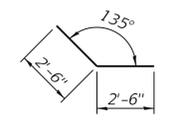
b5 BARS CUTTING DIAGRAM

BILL OF MATERIAL FOR SLAB

BAR	NO.	SIZE	LENGTH	SHAPE
a1	75	#4	11'-8"	—
a2	13	#4	25'-8"	—
a3	9	#4	20'-4"	—
b1	27	#4	21'-10"	—
b2	9	#4	19'-4"	—
b3	9	#4	21'-10"	—
b4	9	#4	16'-4"	—
b5	12	#4	21'-7"	—
b6	9	#4	15'-0"	—
b7	4	#4	27'-2"	—
b8	4	#4	19'-6"	—
b9	4	#4	26'-7"	—
b10	4	#4	21'-1"	—
b11	4	#4	5'-0"	—
Reinforcement Bars, Epoxy Coated			Pound	2,200
Concrete Structures			Cu. Yd.	50



SECTION 1-1
N.T.S.



BAR b11



04/29/2020

Arthur Nowak



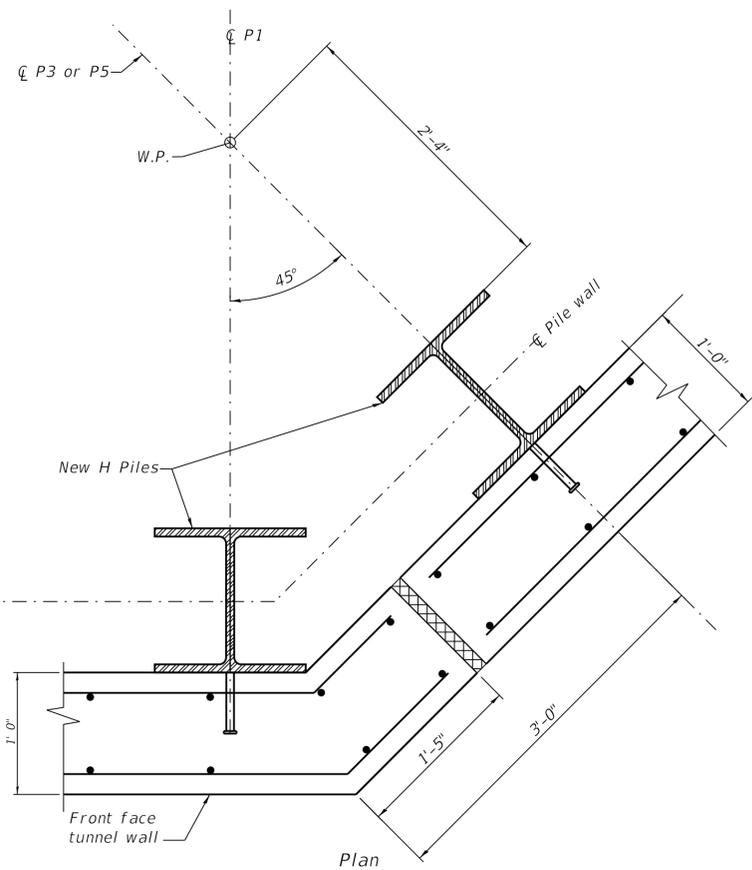
DESIGNED - RH	REVISED -
DRAWN - JDK	REVISED -
CHECKED - AJN	REVISED -
DATE - 02-11-2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

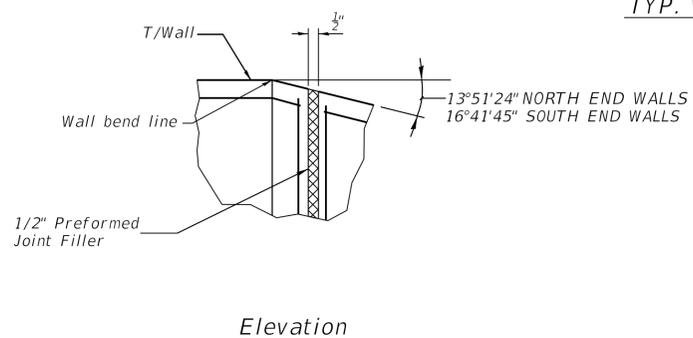
WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
UNDERPASS SLAB REINFORCING

SCALE: 1/4"=1'-0" SHEET 4 OF 7 SHEETS

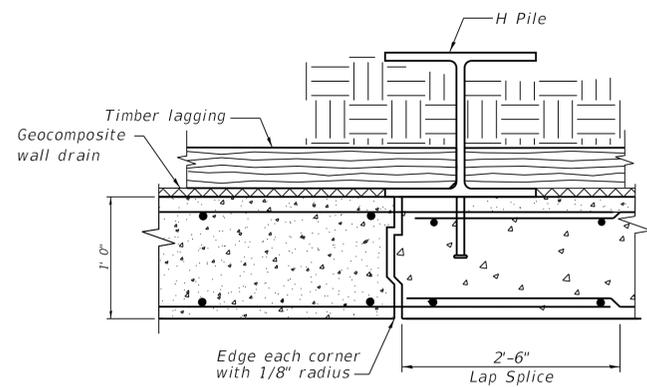
F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 30
CONTRACT NO. 61G33				ILLINOIS FED. AID PROJECT



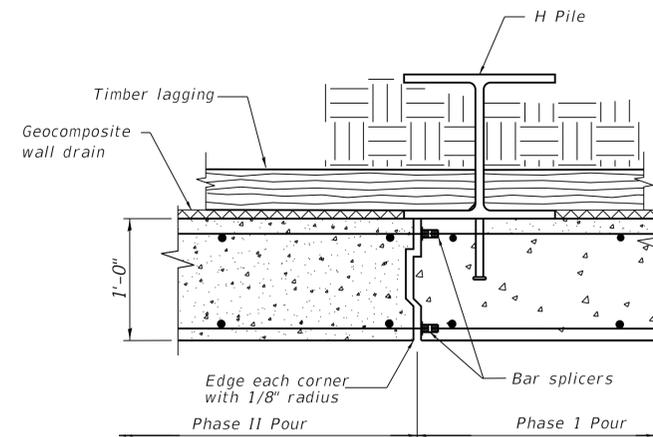
TYP. WALL EXP. JOINT
AND CORNER PILE LAYOUT
N.T.S.



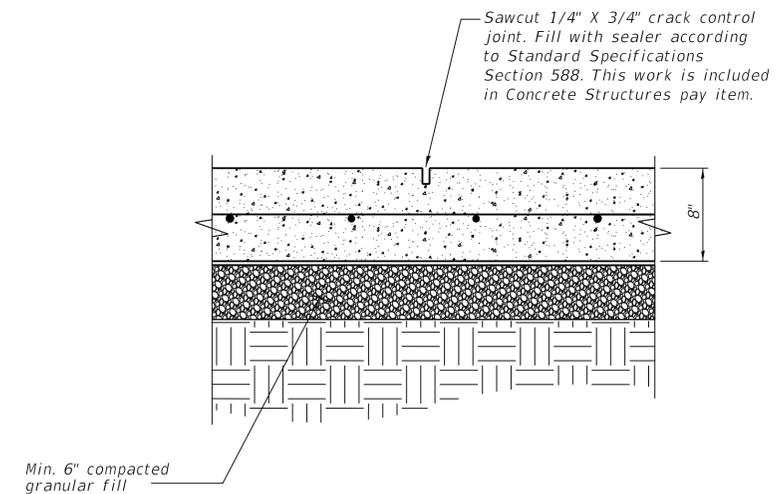
Elevation



TYP. WALL CONSTRUCTION JOINT
N.T.S.



TYP. WALL CONSTRUCTION JOINT
WITH BAR SPlicERS
N.T.S.

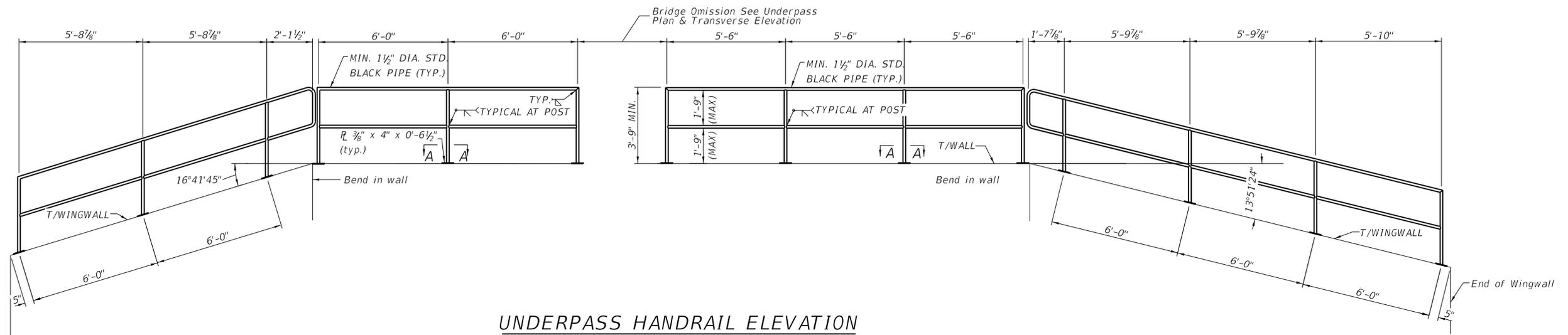


TYP. SLAB CRACK CONTROL JOINT
N.T.S.

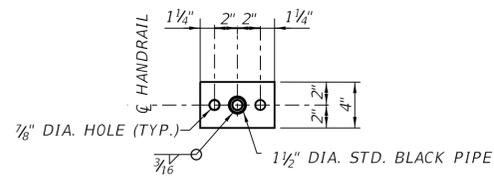


02/11/2020

Arthur Nowak



**UNDERPASS HANDRAIL ELEVATION
(TWO SIDES REQUIRED)**



SECTION A-A

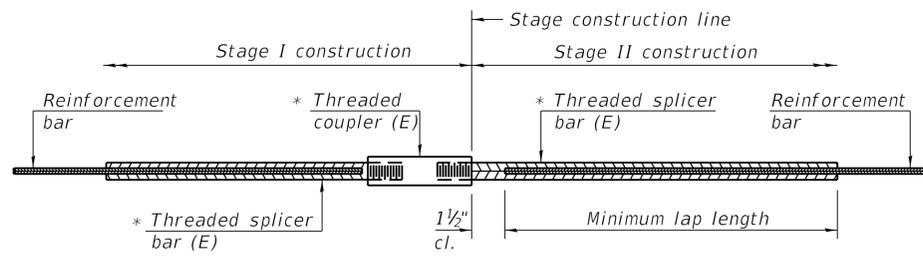
NOTES:

1. All pieces of pipe handrail assembly shall be galvanized
2. After galvanizing, all elements shall be free of fins, abrasions, rough or sharp edges, and other surface defects.
3. All anchor rods shall be 3/4" diameter and have a minimum embedment length of 6".
4. All plates shall conform to A.S.T.M. A36 Steel Grade.



02/11/2020

Arthur Nowak

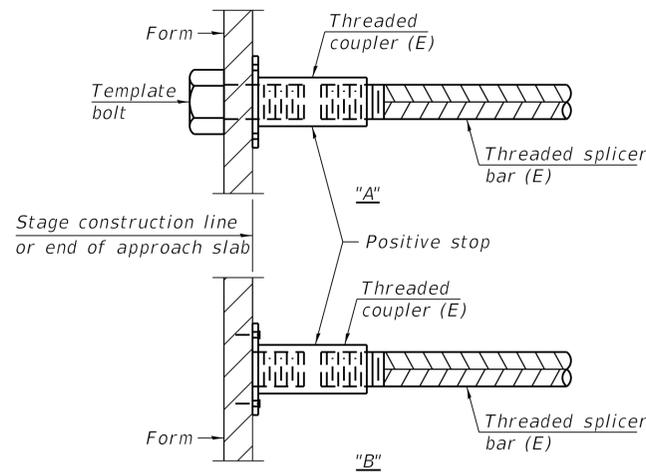


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

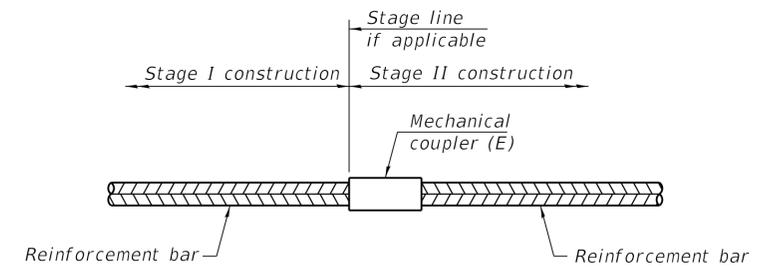
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Phase I Construction - Retaining Wall	#5	36	2'-6"



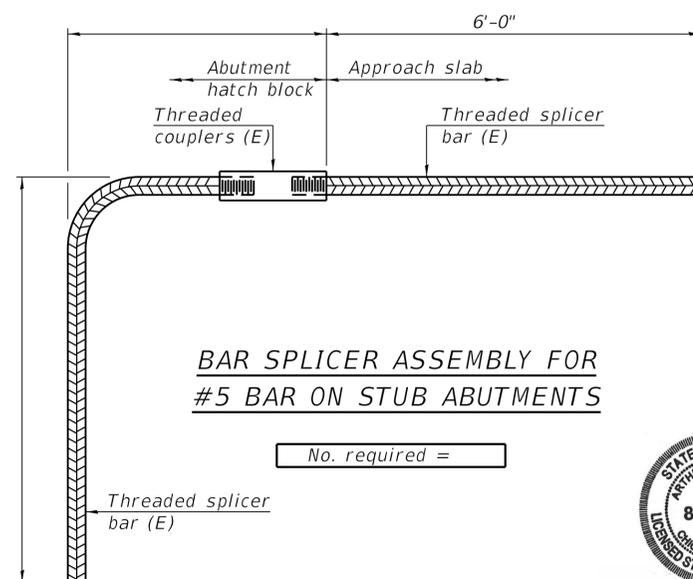
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

STATE OF ILLINOIS
 ARTUR J. NOWAK
 81-5894
 CHICAGO, ILLINOIS
 LICENSED STRUCTURAL ENGINEER
 02/11/2020
 Artur Nowak

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

2-17-2017

Bowman
CONSULTING

DESIGNED - RH
 DRAWN - JDK
 CHECKED - AJN
 DATE - 02-11-2020

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
 BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 SCALE: NONE SHEET 7 OF 7 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3782 & 3783	18-00097-00-BR	COOK	52	33
CONTRACT NO. 61G33				

ILLINOIS FED. AID PROJECT

SB-1

623 Cooper Court • Schaumburg, IL 60173 Tel: 630.994.2600 • Fax: 312.733.5612		SOIL BORING LOG		Page <u>1</u> of <u>2</u> Date <u>10/10/19</u>
ROUTE <u>F.A.U. 3782 & 3783</u> DESCRIPTION <u>BNSF Railway Pedestrian Underpass at Prospect Avenue</u> LOGGED BY <u>TEK</u>				
SECTION <u>08-00088-00-BT</u> LOCATION <u>Western Springs</u> <u>Northing</u> <u>Easting</u>				
COUNTY <u>COOK</u> DRILLING METHOD <u>HSA</u> HAMMER TYPE <u>AUTO</u>				
STRUCT. NO. <u>Sta. 3+00.00 Underpass</u> <u>Station 116+50.00 BNSF RR</u>		Surface Water Elev. <u>N/A</u> ft Stream Bed Elev. <u>N/A</u> ft Groundwater Elev.: <u>None</u> ft First Encounter <u>N/A</u> ft Upon Completion <u>N/A</u> ft After <u> </u> Hrs. <u>N/A</u> ft		
BORING NO. <u>SB-1</u> Station <u> </u> Offset <u> </u> Ground Surface Elev. <u>665.00</u> ft		DEPTH (ft)	BLOW COUNT (tsf)	MOISTURE CONTENT (%)
Black, Moist to Wet FILL: SAND and GRAVEL, with clay and cinders		2 1 1	15 NR	ORGANIC CONTENT (%)
Brown and Dark Brown, Moist FILL: CLAY LOAM, with gravel, trace roots		2 3 3	2.1 18	ORGANIC CONTENT (%)
Cobbles at 8.5-10 feet		2 3 4	1.0 24	ORGANIC CONTENT (%)
Soft to Very Stiff Brown, Moist LOAM, trace gravel (CL)		3 5 10	3.0 24	ORGANIC CONTENT (%)
Cobbles at 16-17.5 feet		5 7 12	1.0 22	ORGANIC CONTENT (%)
Cobbles at 18.5-20 feet		5 8 10	2.1 13	ORGANIC CONTENT (%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

SB-1

623 Cooper Court • Schaumburg, IL 60173 Tel: 630.994.2600 • Fax: 312.733.5612		SOIL BORING LOG		Page <u>2</u> of <u>2</u> Date <u>10/10/19</u>
ROUTE <u>F.A.U. 3782 & 3783</u> DESCRIPTION <u>BNSF Railway Pedestrian Underpass at Prospect Avenue</u> LOGGED BY <u>TEK</u>				
SECTION <u>08-00088-00-BT</u> LOCATION <u>Western Springs</u> <u>Northing</u> <u>Easting</u>				
COUNTY <u>COOK</u> DRILLING METHOD <u>HSA</u> HAMMER TYPE <u>AUTO</u>				
STRUCT. NO. <u>Sta. 3+00.00 Underpass</u> <u>Station 116+50.00 BNSF RR</u>		Surface Water Elev. <u>N/A</u> ft Stream Bed Elev. <u>N/A</u> ft Groundwater Elev.: <u>None</u> ft First Encounter <u>N/A</u> ft Upon Completion <u>N/A</u> ft After <u> </u> Hrs. <u>N/A</u> ft		
BORING NO. <u>SB-1</u> Station <u> </u> Offset <u> </u> Ground Surface Elev. <u>665.00</u> ft		DEPTH (ft)	BLOW COUNT (tsf)	MOISTURE CONTENT (%)
Stiff to Very Stiff Gray, Moist CLAY LOAM, with gravel (CL-ML) Cobbles at 21-22.5 feet		3 5 8	2.3 10 133.1	ORGANIC CONTENT (%)
Cobbles at 33.5-35 feet		2 5 6	1.3 10	ORGANIC CONTENT (%)
Cobbles at 38.5-40 feet		3 5 6	2.7 10	ORGANIC CONTENT (%)
Cobbles at 38.5-40 feet		12 12 7	1.3 11	ORGANIC CONTENT (%)
Cobbles at 38.5-40 feet		10 12 22	1.5 12	ORGANIC CONTENT (%)

End of Boring
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



DESIGNED -	RH	REVISED -	
DRAWN -	JDK	REVISED -	
CHECKED -	AJN	REVISED -	
DATE -	02-11-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
SOIL BORINGS

SCALE: N.T.S. SHEET 1 OF 2 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 34
CONTRACT NO. 61G33				ILLINOIS FED. AID PROJECT

SB-2

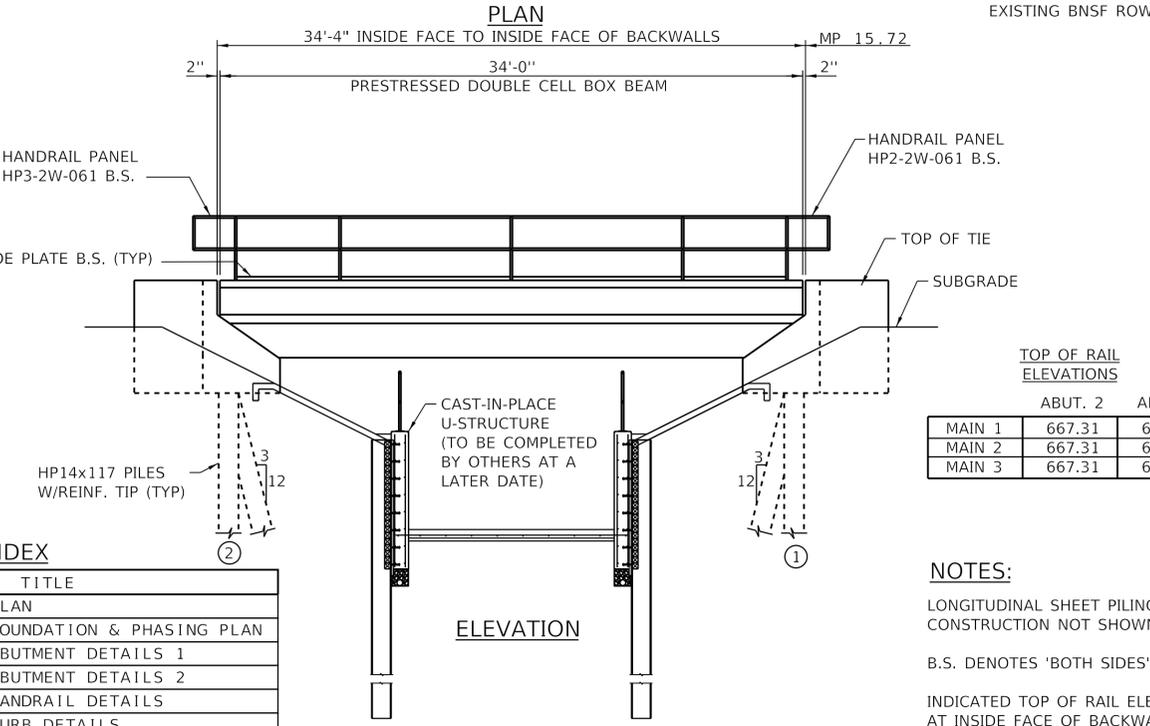
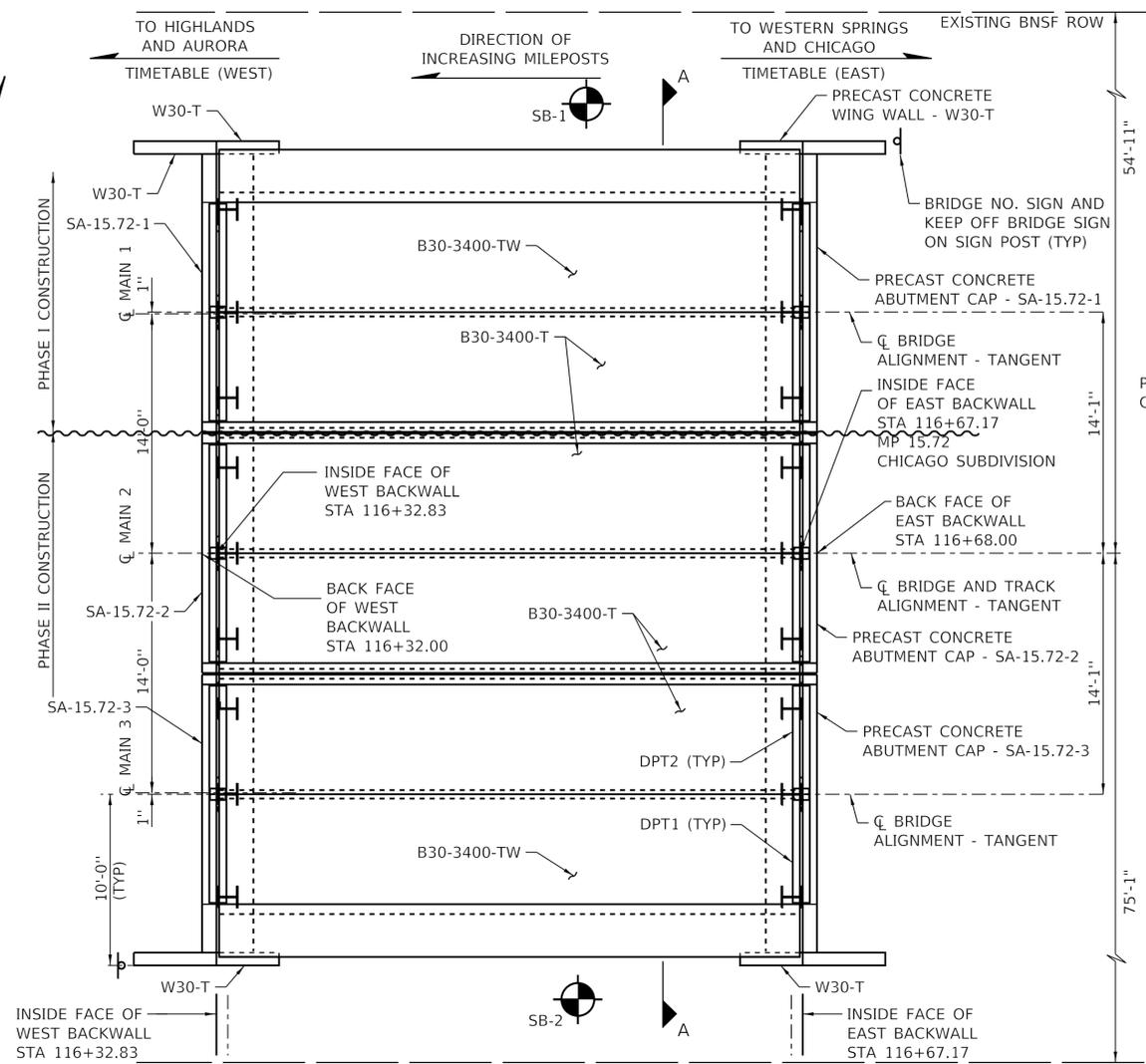
 623 Cooper Court • Schaumburg, IL 60173 Tel: 630.994.2600 • Fax: 312.733.5612		SOIL BORING LOG		Page 1 of 2 Date 10/11/19	
ROUTE F.A.U. 3782 & 3783 DESCRIPTION BNSF Railway Pedestrian Underpass at Prospect Avenue		LOGGED BY TEK			
SECTION 08-00088-00-BT LOCATION Western Springs Northing Easting					
COUNTY COOK DRILLING METHOD HSA HAMMER TYPE AUTO					
STRUCT. NO. Sta. 3+00.00 Underpass Station 116+50.00 BNSF RR		SURFACE WATER Elev. N/A ft Stream Bed Elev. N/A ft GROUNDWATER Elev.: First Encounter None ft Upon Completion N/A ft After Hrs. N/A ft			
BORING NO. SB-2 Station Offset Ground Surface Elev. 665.00 ft		DEPTH (ft) BLOW COUNT (blows/ft) MOISTURE (%) ORGANIC (%) 1 1 14 1 1 18 2 2 659.00 1 3 2.9 24 3.5 4 B 2 3 2.5 22 4 B -10 2 2 1.3 23 99.8 2 B 1 2 1.5 24 4 B -15 Cobbles at 16-17.5 feet 3 4 5 646.00 1 3 2.1 25 B		NOTES: Drill Rig: GeoProbe	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

SB-2

 623 Cooper Court • Schaumburg, IL 60173 Tel: 630.994.2600 • Fax: 312.733.5612		SOIL BORING LOG		Page 2 of 2 Date 10/11/19	
ROUTE F.A.U. 3782 & 3783 DESCRIPTION BNSF Railway Pedestrian Underpass at Prospect Avenue		LOGGED BY TEK			
SECTION 08-00088-00-BT LOCATION Western Springs Northing Easting					
COUNTY COOK DRILLING METHOD HSA HAMMER TYPE AUTO					
STRUCT. NO. Sta. 3+00.00 Underpass Station 116+50.00 BNSF RR		SURFACE WATER Elev. N/A ft Stream Bed Elev. N/A ft GROUNDWATER Elev.: First Encounter None ft Upon Completion N/A ft After Hrs. N/A ft			
BORING NO. SB-2 Station Offset Ground Surface Elev. 665.00 ft		DEPTH (ft) BLOW COUNT (blows/ft) MOISTURE (%) ORGANIC (%) 2 2 644.00 2 5 19 6 643.00 2 4 1.9 12 4 B -25 Cobbles at 23.5-25 feet 3 4 2.1 10 5 B 3 3 1.3 11 6 B -30 Cobbles at 33.5-35 feet 4 8 0.8 12 8 B -35 6 10 1.3 12 11 B 625.00 -40		NOTES: Very Stiff Brown, Very Moist CLAY (CL) (continued) Medium Dense Brown, Wet SANDY CLAY LOAM, with gravel (SC-SM) Medium Stiff to Very Stiff Gray, Moist CLAY LOAM, with gravel (CL-ML) Cobbles at 23.5-25 feet Cobbles at 33.5-35 feet	

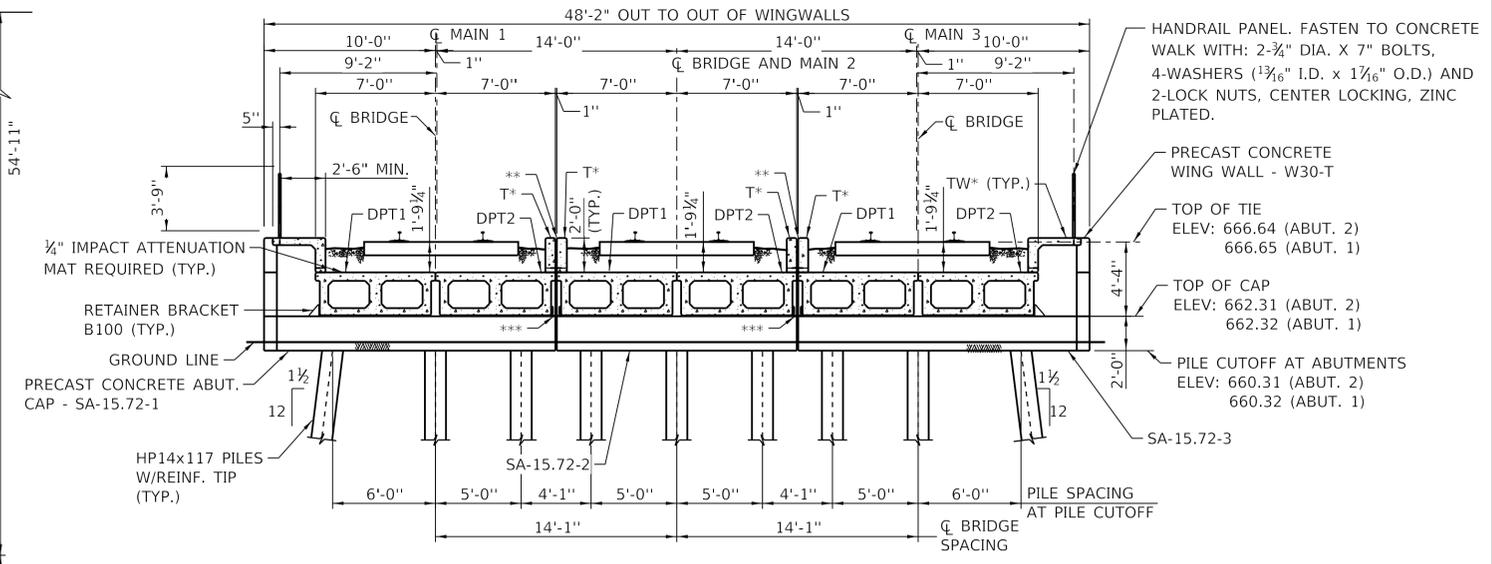
End of Boring
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



TOP OF RAIL ELEVATIONS

	ABUT. 2	ABUT. 1
MAIN 1	667.31	667.32
MAIN 2	667.31	667.32
MAIN 3	667.31	667.32

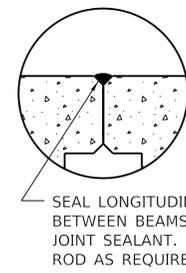
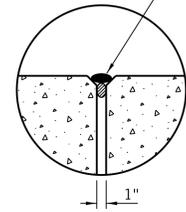
NOTES:
 LONGITUDINAL SHEET PILING FOR STAGE CONSTRUCTION NOT SHOWN
 B.S. DENOTES 'BOTH SIDES'
 INDICATED TOP OF RAIL ELEVATIONS ARE AT INSIDE FACE OF BACKWALLS.



SECTION A-A

* T INDICATES CONCRETE VERTICAL 24" CURB
 TW INDICATES CONCRETE VERTICAL 24" CURB AND WALK
 ** SEE WATERPROOFING DETAILS BELOW
 *** 2-RETAINER BRACKET B200, AT BOTH ABUTMENTS

PLACE 1 1/4" DIA BACKER ROD FULL LENGTH BETWEEN CURBS AND SEAL WITH POLY. JOINT SEALANT



JOINT WATERPROOFING DETAILS

DESIGN SPECIFICATIONS:

BNSF STANDARD BRIDGE AND COMPONENT PLANS DATED JUNE 1, 2016
 GUIDELINES FOR RAILROAD GRADE SEPARATION PROJECTS (UPRR-BNSF), 2016

BNSF RAILWAY STANDARD CONSTRUCTION SPECIFICATIONS
 PUBLIC PROJECTS MANUAL, UPDATED JUNE 29, 2018

GENERAL NOTES:

DESIGN LOADING: COOPER E80 WITH DIESEL IMPACT.

ATTENTION: THE SUPERVISOR STRUCTURES OR FOREMAN IN CHARGE SHALL VERIFY THAT ALL UNDERGROUND UTILITIES HAVE BEEN LOCATED AND IDENTIFIED PRIOR TO BEGINNING CONSTRUCTION.

CONTROL POINT: CUT CROSS IN CONCRETE SIDEWALK 20' EAST OF THE NORTHEAST CORNER OF PROSPECT AVENUE AND HILLGROVE AVENUE. NORTHING 1873018.56, EASTING 1100712.16. ELEVATION 651.173.

STATIONING SHOWN IS ONLY APPROXIMATE AND IS BASED ON SCALED MEASUREMENTS ONLY. ASSUMED STATIONING OF INTERSECTION OF C 1-294 AND C MAIN 2 = 100+00.00.

EXPOSED PORTIONS OF PILE PLATES, EXPOSED PORTIONS OF PILING BETWEEN BOTTOM OF CAP AND ONE FOOT BELOW GROUND LINE, CHANNEL BRACING, ANGLE HANDRAIL AND ABRASIONS OR CUTS ON PAINTED STEEL SHALL BE PAINTED WITH ONE (1) FIELD COAT OF SELF-PRIMING, ALUMINUM, PIGMENTED, LOW STRESS, HIGH SOLIDS MASTIC. PAINT APPLICATION SHALL BE TO A MINIMUM DRY FILM THICKNESS OF 8 MILS. ALL AREAS TO BE PAINTED SHALL BE CLEANED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATION SSPC-SP6. PAINT SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

FOR BEAMS LOCATED OVER ROADWAYS OR PEDESTRIAN WALKWAYS, THE DRAIN OPENINGS SHALL BE COVERED WITH WIRE SCREEN TO PREVENT BALLAST FROM FALLING OFF BEAMS. SCREEN SHALL BE INDUSTRIAL WIRE SCREEN MEETING THE REQUIREMENTS SPECIFIED IN ASTM E437-85, HEAVY GRADE, 1/4" OPENING, PLAIN WEAVE, GALVANIZED SHEET. SCREEN SHALL FULLY COVER OPENING AND BE ANCHORED INTO THE CONCRETE. SCREEN INSTALLATION TO BE IN FIELD BY RAILROAD FORCES OR CONTRACTOR.

ALL SOILS ARE CLASSIFIED AS NON-SPECIAL WASTE AND ARE TO BE DISPOSED OF IN A SUBTITLE D LANDFILL.

REFERENCES:
 PRESTRESSED 30" DOUBLE CELL BOX BEAMS TYPE 1 - BNSF STANDARD PLAN NOS. 0000-1212-01 AND -02.

PRECAST CONCRETE MEMBERS FOR DOUBLE CELL BOX BEAMS - SEE BILL OF MATERIAL: REMARKS, SHEET BNSF07, THIS SET.

BNSF LETTER OF CONCURRENCE DATED OCTOBER 27, 2011

CONSTRUCTION AND MAINTENANCE AGREEMENT NO. _____ DATED _____



FOR INFORMATION ONLY

SHEET INDEX

PLAN NO.	TITLE
BNSF01	BNSF BRIDGE PLAN
BNSF02	BNSF BRIDGE FOUNDATION & PHASING PLAN
BNSF03	BNSF BRIDGE ABUTMENT DETAILS 1
BNSF04	BNSF BRIDGE ABUTMENT DETAILS 2
BNSF05	BNSF BRIDGE HANDRAIL DETAILS
BNSF06	BNSF BRIDGE CURB DETAILS
BNSF07	BNSF BRIDGE MISCELLANEOUS DETAILS



DESIGNED - NHP	REVISED -
DRAWN - DMR	REVISED -
CHECKED - TCG	REVISED -
DATE - 02-11-2020	REVISED -

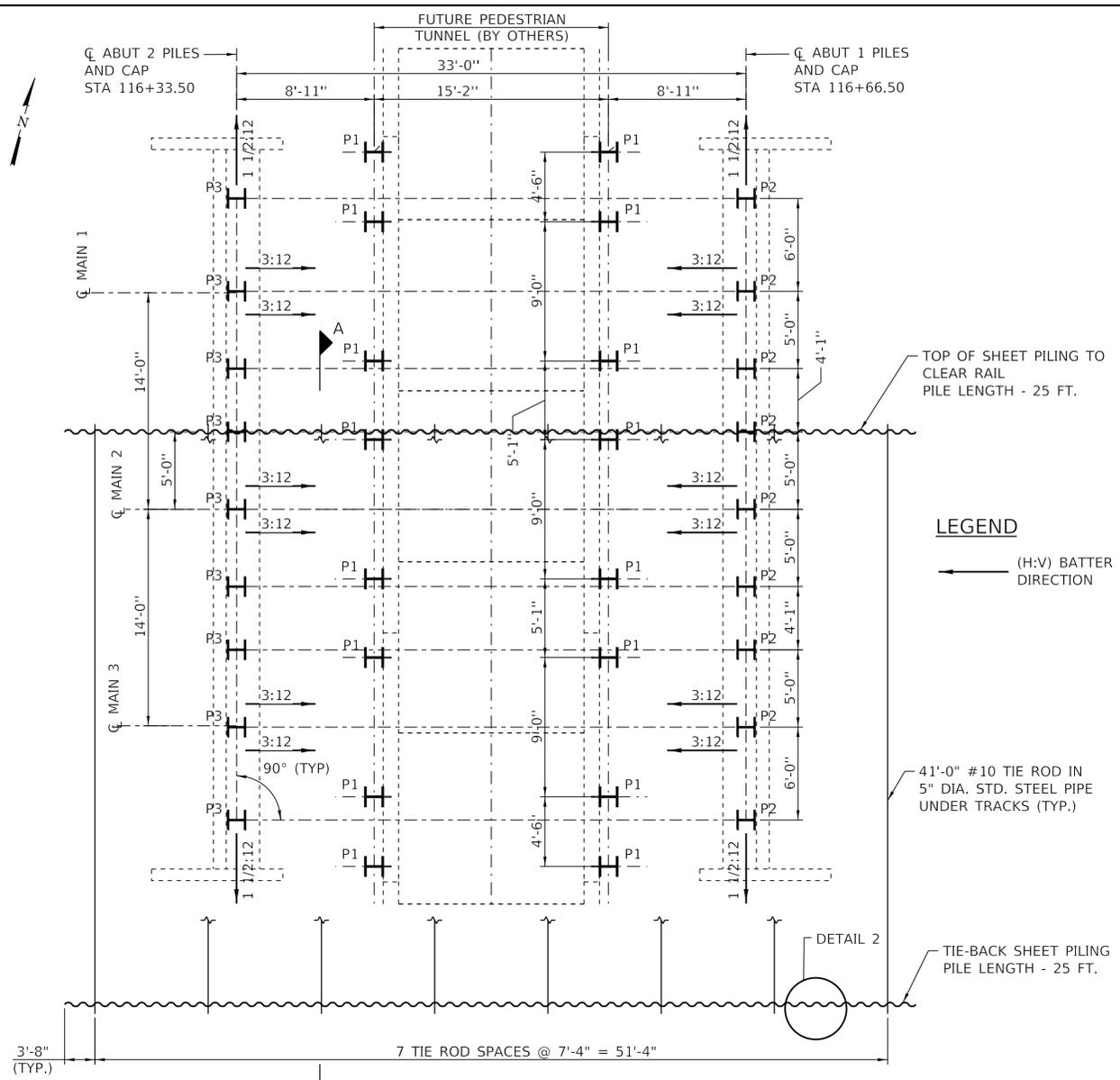
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
 BNSF BRIDGE PLAN

SCALE: NTS SHEET BNSF01 OF BNSF07 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3782 & 3783	18-00097-00-BR	COOK	52	36
CONTRACT NO. 61G33				

ILLINOIS FED. AID PROJECT

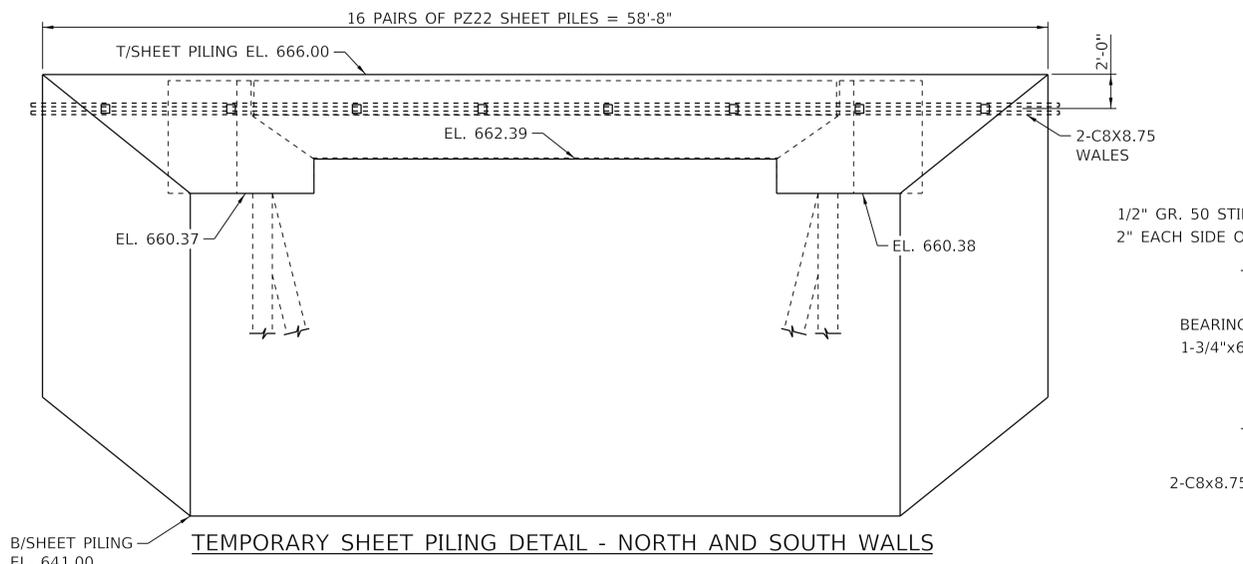


LEGEND
 (H:V) BATTER DIRECTION

41'-0" #10 TIE ROD IN 5" DIA. STD. STEEL PIPE UNDER TRACKS (TYP.)

TIE-BACK SHEET PILING PILE LENGTH - 25 FT.

PILE PLAN



TEMPORARY SHEET PILING DETAIL - NORTH AND SOUTH WALLS

RAILROAD TRACK PHASING NOTES:

PHASE I CONSTRUCTION

TRACK	DESCRIPTION	NOTES
MAIN 1	OUT OF SERVICE	CONTRACTOR MUST OBTAIN CLEARANCE PRIOR TO BEGIN TO WORK
MAIN 2	IN SERVICE	
MAIN 3	IN SERVICE	

PHASE II CONSTRUCTION

TRACK	DESCRIPTION	NOTES
MAIN 1	IN SERVICE	
MAIN 2	OUT OF SERVICE	CONTRACTOR MUST OBTAIN CLEARANCE PRIOR TO BEGIN TO WORK
MAIN 3	OUT OF SERVICE	CONTRACTOR MUST OBTAIN CLEARANCE PRIOR TO BEGIN TO WORK

MISC. NOTES:

- STRUCTURAL STEEL CHANNELS, BARS, PLATES AND ANGLES SHALL CONFORM TO ASTM A36, U.N.O.
- STRUCTURAL STEEL FABRICATION SHALL COMPLY WITH LATEST AISC SPECIFICATION.
- SHEET PILE MATERIAL SHALL BE ASTM A572, GRADE 50.
- ELECTRODES FOR STICK WELDING OF GRADE A50 STEEL SHALL BE LOW HYDROGEN E70XX AND SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF ANSI/AWS A5.1 OR A5.5.
- ELECTRODES AND SHIELDING GAS FOR GAS METAL ARC WELDING (GMAW) OR FLEX CORED ARC WELDING (FCAW) OF GRADE A50 STEEL SHALL CONFORM WITH THE LATEST EDITION OF ANS/AWS A5.18 OR ANSI/AWS A5.20, RESPECTIVELY.
- ALL FIELD AND SHOP WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.5.
- ALL CONSTRUCTION SHALL CONFORM TO THE LOCAL BUILDING CODES (INCLUDING THE UBC) AND SAFETY CODES, AND SHALL CONFORM TO THE APPLICABLE SAFETY PROVISIONS OF OSHA.
- ALL TEMPORARY WORK DESCRIBED ON THIS SHEET, INCLUDING INSTALLATION AND REMOVAL OF SHEET PILING, WALES, TIE RODS AND STEEL CASING PIPE, TO BE COMPLETED BY BNSF FORCES.

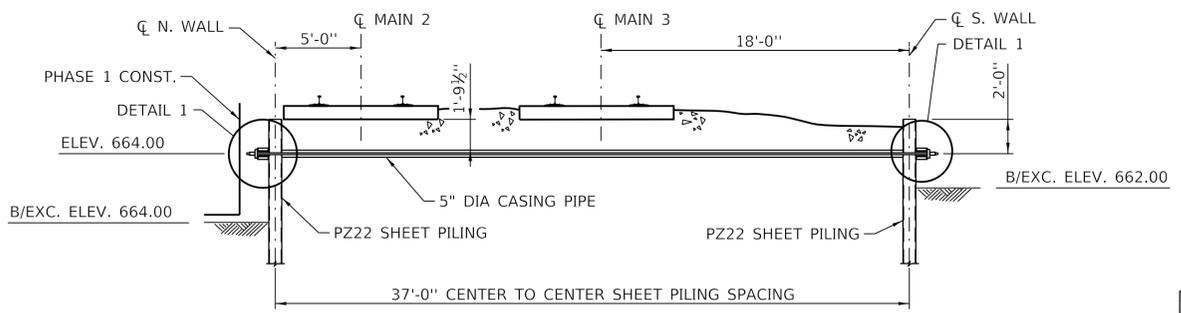
PILE NOTES:

- PILE SPACINGS SHOWN ARE AT PILE CUTOFF ELEVATIONS.
- ALL BEARING PILES ARE TO BE DRIVEN WITH REINFORCED TIPS (PILE POINTS).
- SEE STANDARD PLAN NO. 0000-1910-02 FOR DETAILS OF PILE SPLICE.
- PILE CUTOFFS MUST BE MADE CAREFULLY USING A GUIDE, TO ENSURE FULL CONTACT BETWEEN PILES AND CAP.
- WELDING SHALL BE PERFORMED BY PERSONNEL QUALIFIED PER CURRENT A.W.S. WELDING CODE D1.1.
- STEEL PILE MATERIAL SHALL CONFORM TO A.S.T.M. A572 GRADE 50.
- PILES SHALL BE DRIVEN IN ACCORDANCE WITH THE BNSF STANDARD CONSTRUCTION SPECIFICATIONS. STEEL BEARING PILES SHALL BE DRIVEN TO REFUSAL IF POSSIBLE OR TO A MINIMUM ULTIMATE RESISTANCE OF 250 TONS AS DETERMINED BY THE MODIFIED ENGINEERING NEWS-RECORD FORMULA AS PER THE BNSF ENGINEERING INSTRUCTIONS SECTION 17. IF PENETRATION OF 25 FEET BELOW NATURAL OR FINISHED GROUND LINE, WHICHEVER IS LOWER, CANNOT BE ACHIEVED, CONTACT SYSTEM STRUCTURES OFFICE.
- HAMMERS MUST BE APPROVED BY SYSTEM STRUCTURES OFFICE PRIOR TO USE. PILE DRIVING CRITERIA SHALL BE SUPPLIED BY SYSTEM STRUCTURES OFFICE.
- ESTIMATED PILE LENGTHS ARE NOT TO BE USED AS BEARING OR DESIGN CRITERIA. ACTUAL PILE DEPTHS REQUIRED TO MEET DESIGN ARE DEPENDENT ON SITE SOIL CONDITIONS ACCORDING TO THE BORING LOG AND PILE DRIVING EQUIPMENT.
- AFTER PILES ARE DRIVEN, THEY SHALL BE PULLED, IF NECESSARY, AND HELD IN THE PROPER LOCATION AND CUT OFF AT THE PROPER ELEVATION. THEY SHALL CONTINUE BEING HELD UNTIL THE PRECAST CAPS HAVE BEEN SET AND WELDED TO STEEL BEARING PILES.
- MAIN 1 PILES AND PILES WITHIN PHASE I CONSTRUCTION LIMITS TO BE DRIVEN IN PHASE I. MAINS 2 & 3 PILES AND PILES WITHIN PHASE II CONSTRUCTION LIMITS TO BE DRIVEN IN PHASE II AFTER TEMPORARY SHEET PILING IS REMOVED.

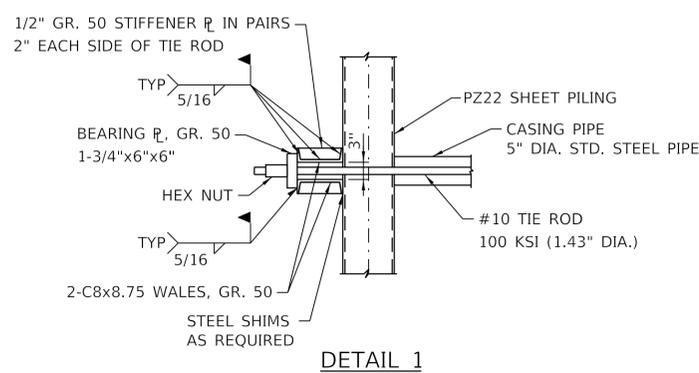
SOLDIER PILE SCHEDULE

Pile	No.	Size	Top EL.	Bott.EL.	Driving Length	Cut-off EL. *
P1	16	HP14X117	667.31	630.01	37.30	661.50
P2	9	HP14X117	667.31	598.32	68.99	660.32
P3	9	HP14X117	667.31	585.31	82.00	660.31

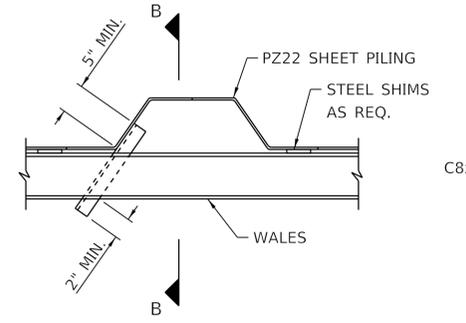
* PILES TO BE CUT DOWN TO CUT-OFF ELEVATION DURING CONSTRUCTION OF THE PRECAST BRIDGE ELEMENTS.



SECTION A-A

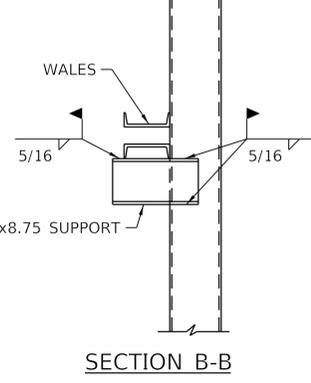


DETAIL 1



DETAIL 2 - WALE SUPPORTS 10'-0" MAX ON CENTERS

INCLUDED WITH WALES



SECTION B-B



FOR INFORMATION ONLY



DESIGNED - NHP	REVISED -
DRAWN - DMR	REVISED -
CHECKED - TCG	REVISED -
DATE - 02-11-2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
BNSF BRIDGE FOUNDATION AND PHASING PLAN**

SCALE: NTS SHEET BNSF02 OF BNSF07 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 37
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				

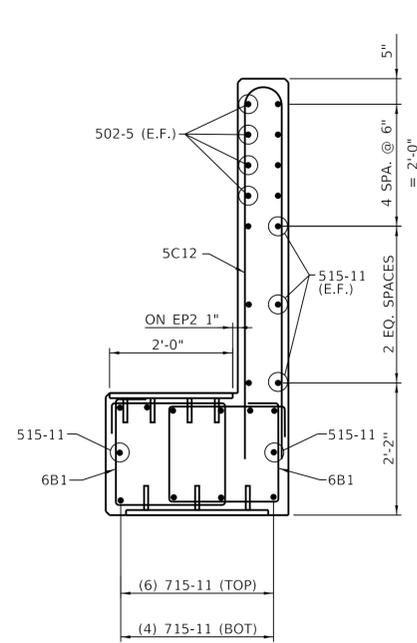
LIST OF REINFORCING BARS

MARK	SIZE	TYPE	A	B	LENGTH
SC4	#5	C	6"	3'-5"	7'-1"
SC12	#5	C	6"	5'-5"	10'-6"
SE14	#5	E	2'-6 1/2"	9"	4'-1"
6B1	#6	B	1'-8"	1'-8"	8'-0"
502-5	#5	STR.	-	-	2'-5"
515-11	#5	STR.	-	-	15'-11"
715-11	#7	STR.	-	-	15'-11"

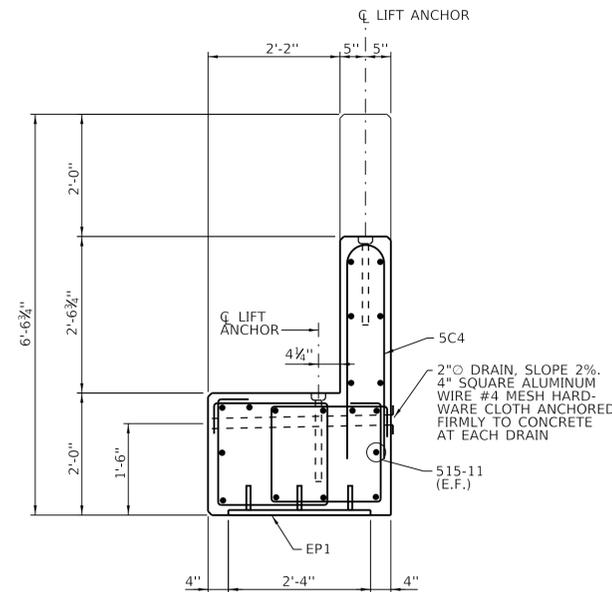
1. SEE PLAN NO. 0000-1910-07 FOR BENDING DIAGRAM.

BILL OF MATERIAL

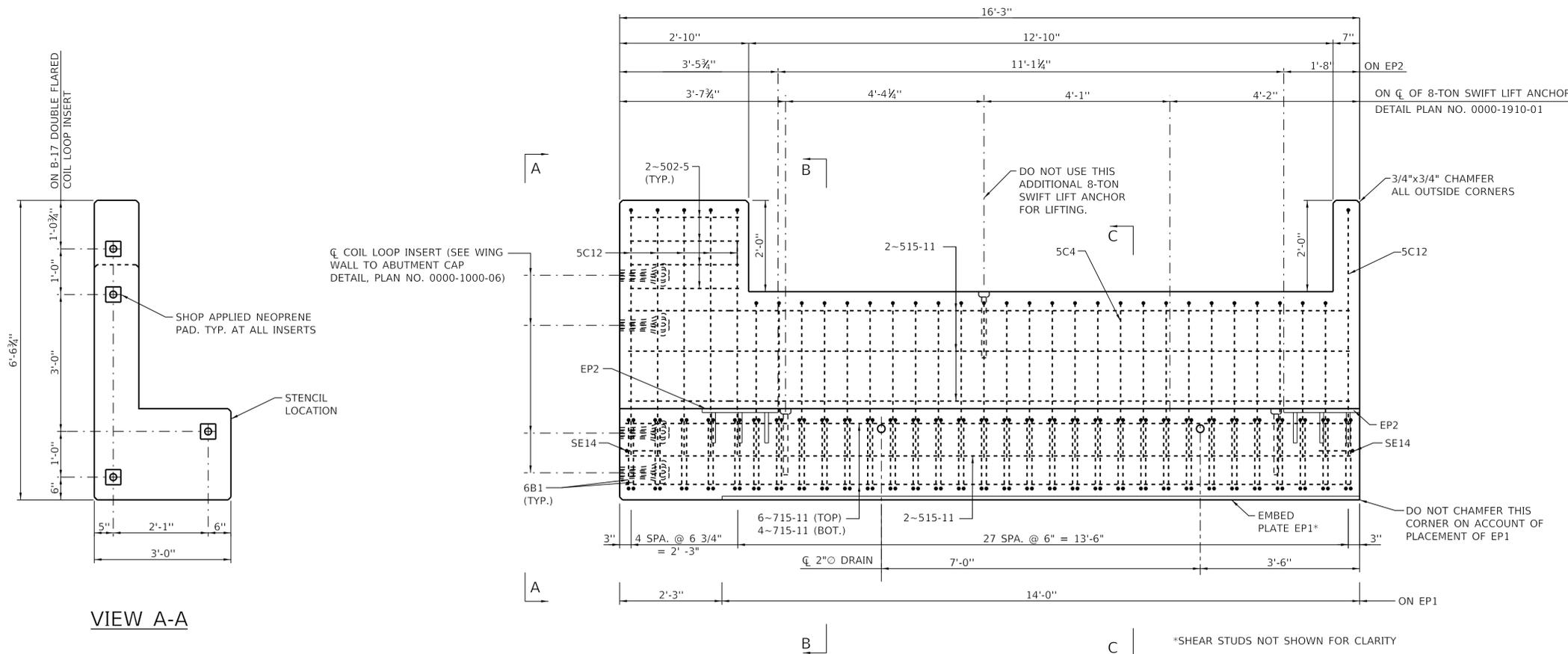
QTY.	UNIT	DESCRIPTION
1	EA.	EP1 (SEE DETAIL PLAN NO. 0000-1910-03)
2	EA.	EP2 (SEE DETAIL PLAN NO. 0000-1910-03)
3	EA.	8 TON SWIFT LIFT ANCHOR
4	EA.	COIL LOOP INSERT w/BOLT (SEE DETAIL PLAN NO. 0000-1000-06)



SECTION B-B



SECTION C-C



VIEW A-A

NOTES:

- ALL MATERIAL AND WORKMANSHIP SHALL BE AS PER THE CURRENT BNSF SPECIFICATIONS.
- MINIMUM COMPRESSIVE STRENGTH OF PRECAST NON-PRESTRESSED CONCRETE (EXCEPT CONCRETE CURBS) SHALL BE 4,500 PSI.
- SURFACES SHALL BE FORMED IN A MANNER WHICH WILL PRODUCE A SMOOTH AND UNIFORM APPEARANCE WITHOUT RUBBING OR PLASTERING. UNLESS OTHERWISE NOTED, EXPOSED EDGES OF 90° OR LESS ARE TO BE CHAMFERED 3/4" x 3/4". UNFORMED SURFACES SHALL HAVE A SMOOTH FINISH, FREE OF ALL FLOAT AND TROWEL MARKS.
- REINFORCING STEEL MATERIAL FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT BNSF SPECIFICATIONS. BARS CROSSING CURB JOINT SHALL CONFORM TO A.S.T.M. A1035 AND MEET GRADE 100 REQUIREMENTS. BARS REQUIRED TO MEET A.S.T.M. A1035 ARE NOTED IN THE BENDING DIAGRAM.
- MINIMUM CONCRETE COVER ON REINFORCEMENT SHALL BE TWO (2) INCHES.
- SHEAR CONNECTOR STUDS SHALL CONFORM TO A.S.T.M. A108 GRADE 1020.
- SHEAR CONNECTOR STUDS SHALL BE AUTOMATICALLY END WELDED WITH COMPLETE FUSION IN ACCORDANCE WITH SECTION 7 OF THE CURRENT A.W.S. STRUCTURAL WELDING CODE D1.1.

PRECAST ABUTMENT CAP SA-15.72-1

ABUTMENT CAP SA-15.72-3 OPPOSITE HAND. SEE SHEET BNSF07, THIS SET FOR PLACEMENT DETAILS.



FOR INFORMATION ONLY



DESIGNED - NHP
 DRAWN - AB
 CHECKED - TCG
 DATE - 02-11-2020

REVISED -
 REVISED -
 REVISED -
 REVISED -

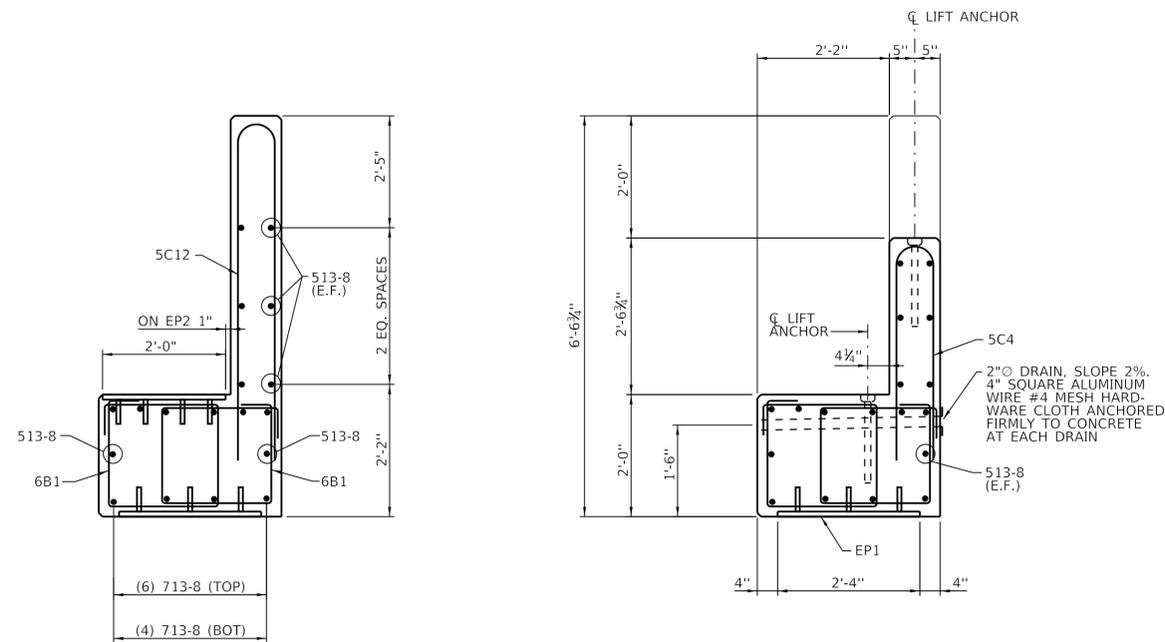
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
 BNSF BRIDGE ABUTMENT DETAILS 1

SCALE: NTS SHEET BNSF03 OF BNSF07 SHEETS

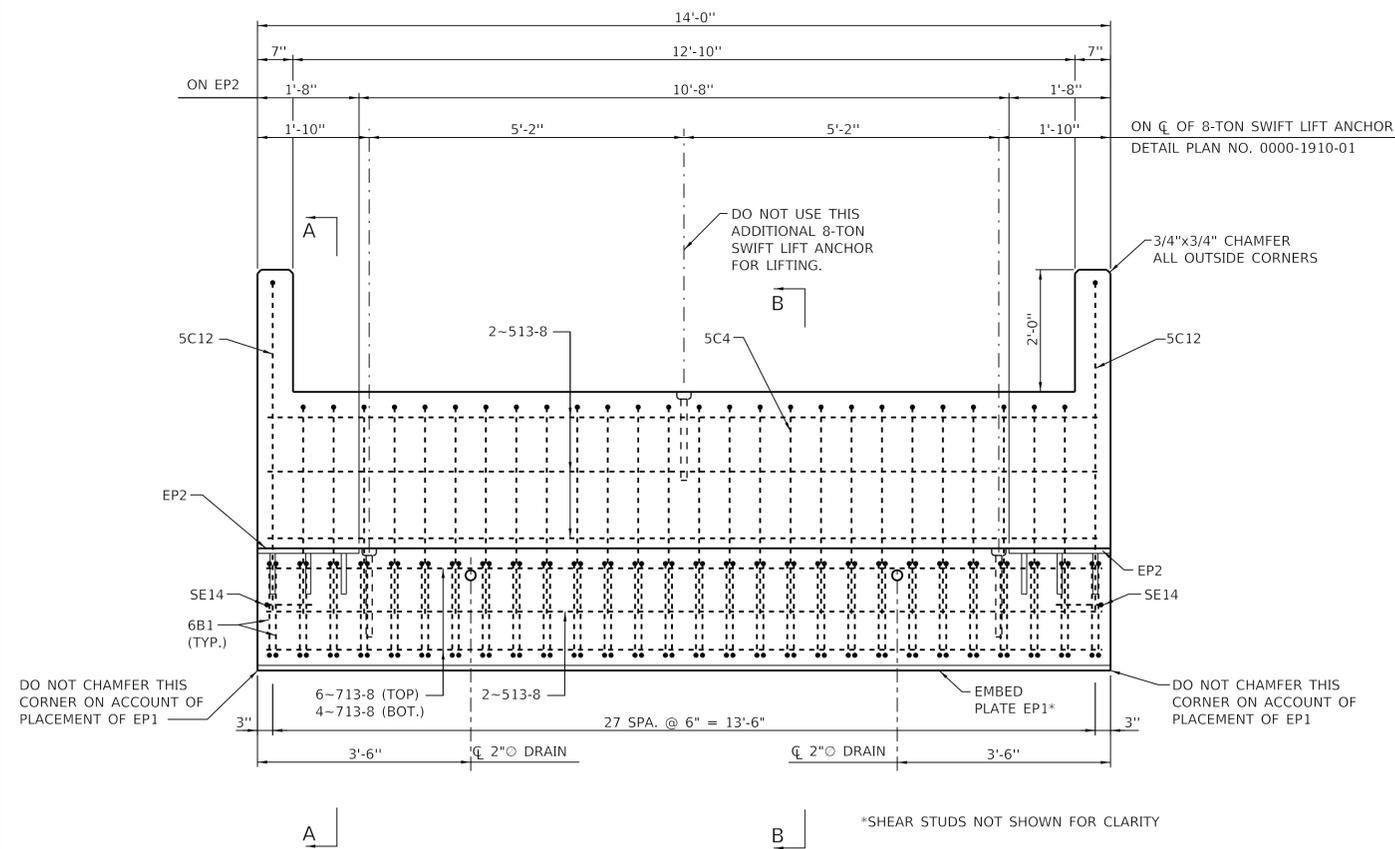
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3782 & 3783	18-00097-00-BR	COOK	52	38
CONTRACT NO. 61G33				

ILLINOIS FED. AID PROJECT



SECTION A-A

SECTION B-B



PRECAST ABUTMENT CAP SA-15.72-2

SEE SHEET BNSF07, THIS SET FOR PLACEMENT DETAILS.

NOTES:

- ALL MATERIAL AND WORKMANSHIP SHALL BE AS PER THE CURRENT BNSF SPECIFICATIONS.
- MINIMUM COMPRESSIVE STRENGTH OF PRECAST NON-PRESTRESSED CONCRETE (EXCEPT CONCRETE CURBS) SHALL BE 4,500 PSI.
- SURFACES SHALL BE FORMED IN A MANNER WHICH WILL PRODUCE A SMOOTH AND UNIFORM APPEARANCE WITHOUT RUBBING OR PLASTERING. UNLESS OTHERWISE NOTED, EXPOSED EDGES OF 90° OR LESS ARE TO BE CHAMFERED 3/4" x 3/4". UNFORMED SURFACES SHALL HAVE A SMOOTH FINISH, FREE OF ALL FLOAT AND TROWEL MARKS.
- REINFORCING STEEL MATERIAL FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT BNSF SPECIFICATIONS. BARS CROSSING CURB JOINT SHALL CONFORM TO A.S.T.M. A1035 AND MEET GRADE 100 REQUIREMENTS. BARS REQUIRED TO MEET A.S.T.M. A1035 ARE NOTED IN THE BENDING DIAGRAM.
- MINIMUM CONCRETE COVER ON REINFORCEMENT SHALL BE TWO (2) INCHES.
- SHEAR CONNECTOR STUDS SHALL CONFORM TO A.S.T.M. A108 GRADE 1020.
- SHEAR CONNECTOR STUDS SHALL BE AUTOMATICALLY END WELDED WITH COMPLETE FUSION IN ACCORDANCE WITH SECTION 7 OF THE CURRENT A.W.S. STRUCTURAL WELDING CODE D1.1.



FOR INFORMATION ONLY

LIST OF REINFORCING BARS					
MARK	SIZE	TYPE	A	B	LENGTH
SC4	#5	C	6"	3'-5"	7'-1"
SC12	#5	C	6"	5'-5"	10'-6"
SE14	#5	E	2'-6 1/2"	9"	4'-1"
6B1	#6	B	1'-8"	1'-8"	8'-0"
513-8	#5	STR.	-	-	13'-8"
713-8	#7	STR.	-	-	13'-8"

1. SEE PLAN NO. 0000-1910-07 FOR BENDING DIAGRAM.

BILL OF MATERIAL

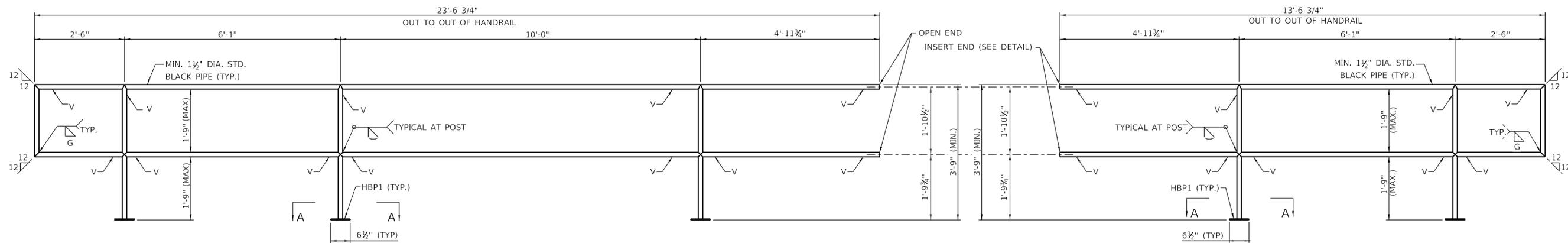
QTY.	UNIT	DESCRIPTION
1	EA.	EP1 (SEE DETAIL PLAN NO. 0000-1910-03)
2	EA.	EP2 (SEE DETAIL PLAN NO. 0000-1910-03)
3	EA.	8 TON SWIFT LIFT ANCHOR



DESIGNED -	NHP	REVISED -	
DRAWN -	DMR	REVISED -	
CHECKED -	TCG	REVISED -	
DATE -	02-11-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS BNSF BRIDGE ABUTMENT DETAILS 2		F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 39
SCALE: NTS	SHEET BNSF04 OF BNSF07 SHEETS	CONTRACT NO. 61G33		ILLINOIS FED. AID PROJECT		

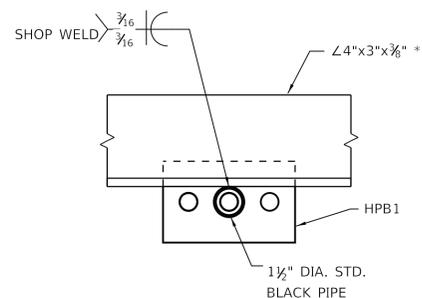


HP3-2W-061 END SPAN

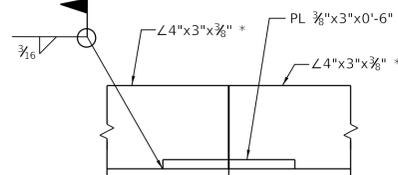
HANDRAIL PANELS ARE TO BE FABRICATED USING 1 1/2" O.D. STD. BLACK PIPE GALVANIZE AFTER FABRICATION. (2 REQUIRED)

HP2-2W-061 END SPAN

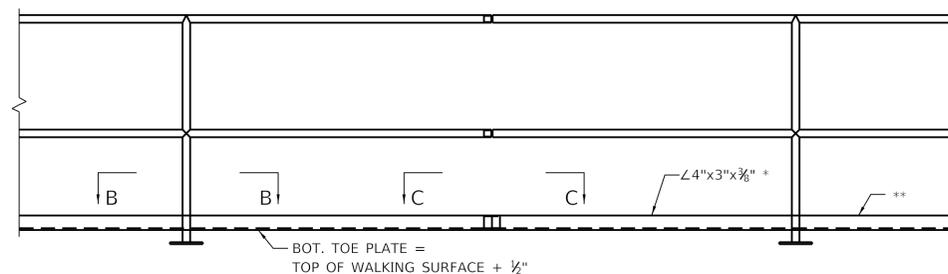
HANDRAIL PANELS ARE TO BE FABRICATED USING 1 1/2" O.D. STD. BLACK PIPE GALVANIZE AFTER FABRICATION. (2 REQUIRED)



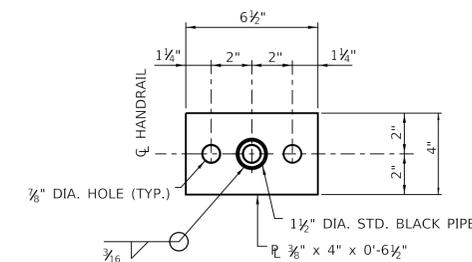
SECTION B-B



VIEW C-C



WALKWAY OVER ROADWAY/ WALKING PATH DETAIL

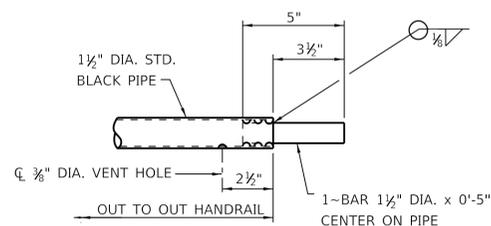


SECTION A-A

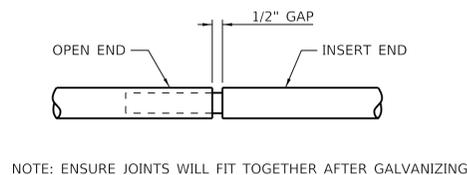
SHOWING HANDRAIL BASE PLATE HBP1

* 4" LEG TO BE VERTICAL WHEN INSTALLED.

** TOE KICK ANGLE TO BE THE SAME LENGTH AS HANDRAIL PANEL.



INSERT DETAIL



JOINT DETAIL

NOTE: ENSURE JOINTS WILL FIT TOGETHER AFTER GALVANIZING

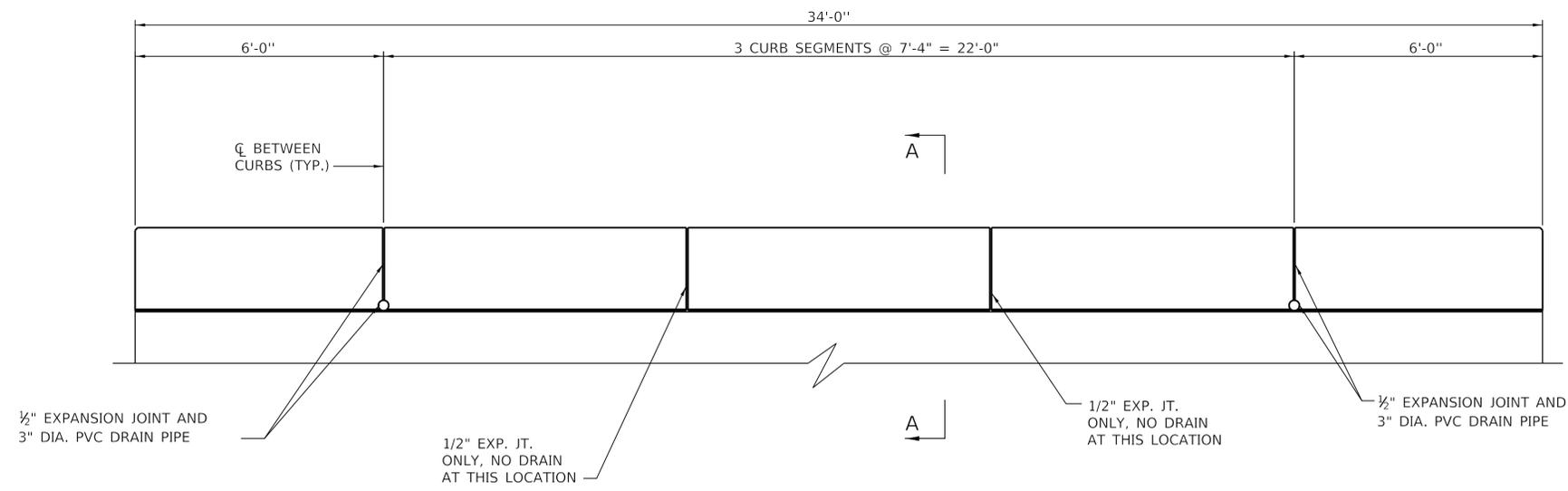
HANDRAIL NOTES:

- STRUCTURAL STEEL BARS, PLATES, AND ANGLES SHALL CONFORM TO A.S.T.M. A36.
- STANDARD BLACK PIPE SHALL CONFORM TO A.S.T.M. A53. UNCOATED PIPE SHALL BE USED.
- FABRICATION AND ARC WELDING OF STRUCTURAL STEEL AND HANDRAIL PANELS SHALL BE IN ACCORDANCE WITH CHAPTER 15, PART 3 OF THE CURRENT A.R.E.M.A. MANUAL FOR RAILWAY ENGINEERING. MIG WELDING SHALL BE USED ON HANDRAIL PANELS.
- GALVANIZING SHALL CONFORM TO A.S.T.M. A123. PIECES REQUIRING GALVANIZING ARE NOTED ON THIS SHEET.
- AFTER GALVANIZING, ALL ELEMENTS SHALL BE FREE OF FINES, ABRASIONS, ROUGH OR SHARP EDGES, AND OTHER SURFACE DEFECTS.
- V = 3/8" O.D. DRILLED VENT HOLE, 1" FROM JOINT.

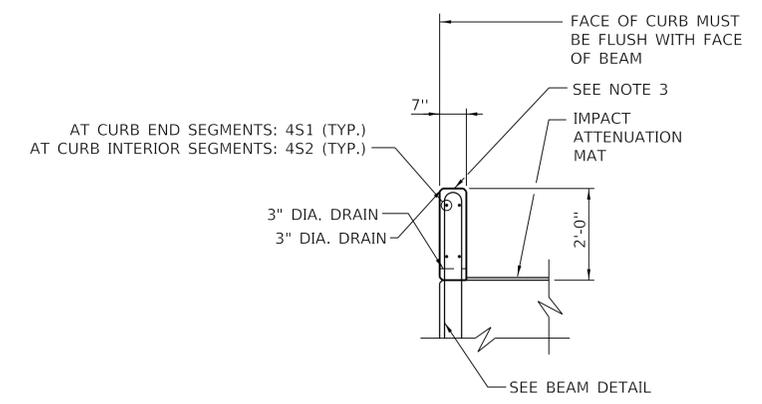


FOR INFORMATION ONLY

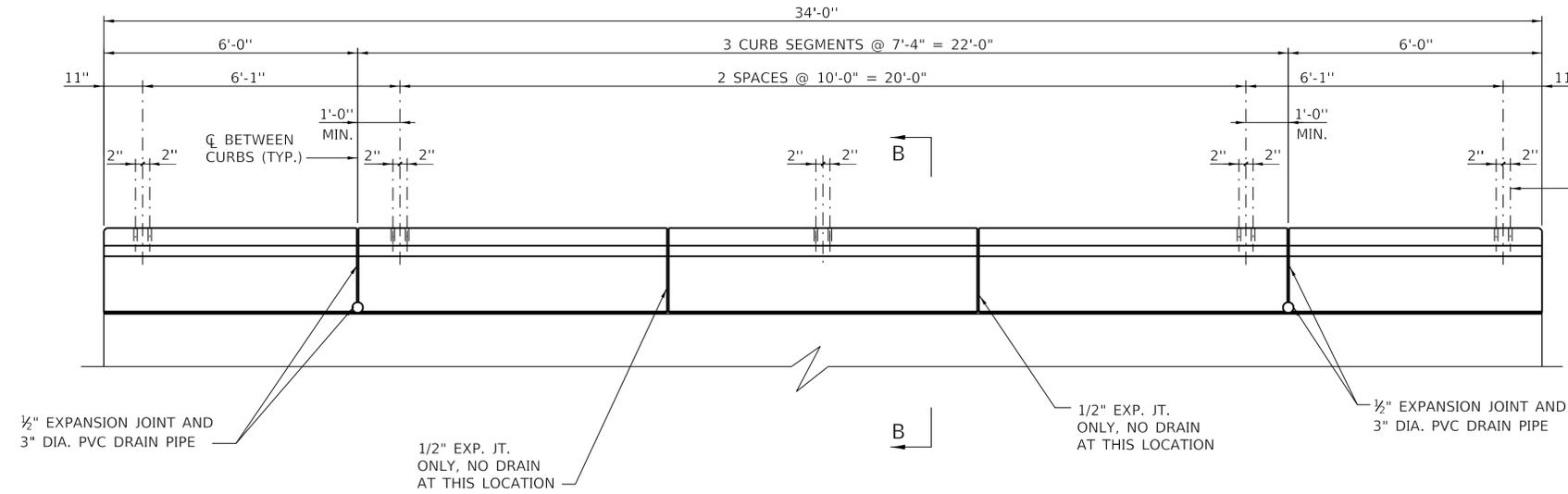
	DESIGNED - NHP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS BNSF BRIDGE HANDRAIL DETAILS	F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 40
	DRAWN - DMR	REVISED -			SCALE: NTS	SHEET BNSF05 OF BNSF07 SHEETS	CONTRACT NO. 61G33		ILLINOIS FED. AID PROJECT
CHECKED - TCG	REVISED -								
DATE - 02-11-2020	REVISED -								



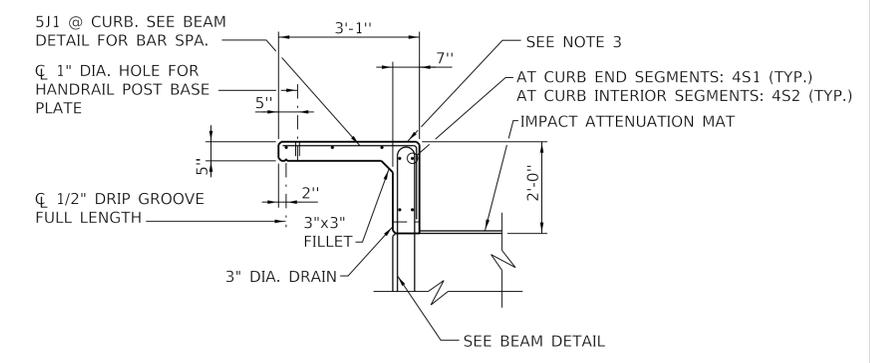
**ELEVATION
MODIFIED VERTICAL CURB**



SECTION A-A



**ELEVATION
MODIFIED CURB AND WALK**



SECTION B-B

NOTES:

1. CURB SHALL BE CAST ON PRESTRESSED BEAM AFTER STRANDS ARE DETENSIONED. BOND NEW CONCRETE TO PRESTRESSED BEAM USING APPROVED CONCRETE BONDING AGENT ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
2. PREFORMED 1/2"x6" ASPHALT EXPANSION BOARD SHALL BE PLACED TO DIVIDE CURB INTO SEGMENTS AS INDICATED. SEAL TOP AND SIDES OF CURB AT ASPHALT EXPANSION BOARD WITH APPROVED JOINT SEALANT. A 3" DIAMETER DRAIN OPENING SHALL BE FORMED AT THE CENTER OF EACH CURB JOINT AT THE BASE UNLESS OTHERWISE NOTED.
3. 3"x6" I.D. PLATE IS TO BE EMBEDDED FLUSH IN TOP OF CURB AND CENTERED 6" FROM END OF CURB. PLATE SHALL CONTAIN THE FOLLOWING INFORMATION IN 1/2" LETTERING: ITEM NAME, LENGTH, WEIGHT, DATE MANUFACTURED, AND NAME OF MANUFACTURER.

LIST OF REINFORCING BARS					
MARK	SIZE	TYPE	A	B	LENGTH
4S1	#4	STR.	-	-	5'-8"
4S2	#4	STR.	-	-	7'-0"
5J1	#5	J	2'-9"	1'-3"	4'-0"

1. SEE PLAN NO. 0000-1910-07 FOR BENDING DIAGRAM.



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DRAWN - DMR	REVISED -
CHECKED - TCG	REVISED -
DATE - 02-11-2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
BNSF BRIDGE CURB DETAILS**

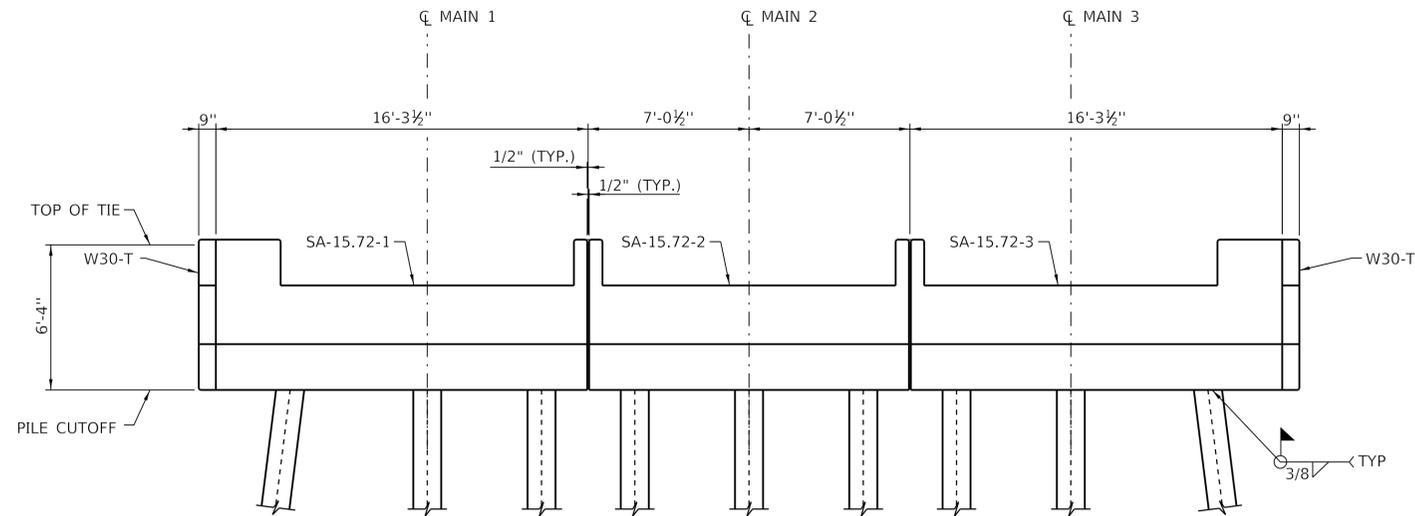
SCALE: NTS SHEET BNSF06 OF BNSF07SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 41
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL							
LINE	QUAN.	UNIT	DESCRIPTION	MARK	SIZE	LENGTH	REMARKS
1	159,120	LB	STEEL PILE, ASTM A572, GR. 50 (34 PCS.)		HP14x117	40'-0"	
2	64,480	LB	STL. SHT. PILE, ASTM A572, GR. 50 (64 PCS.)		PZ22	25'-0"	
3	34	EA	PILE POINT		HP14x117		
4	4	EA	WALE, GR. 50		C8x8.75	60'-0"	WALE SUPPORTS NOT QUANTIFIED
5	8	EA	TIE ROD, #10, GR. 100		1.43" DIA.	41'-0"	
6	16	EA	HEX NUT, WASHER, COUPLING				FOR USE WITH TIE ROD
7	16	EA	BEARING PLATE, GR. 50		1 3/4"x6"x6"		
8	8	EA	CASING PIPE, ASTM A36		5" DIA.	37'-9"	
9	32	EA	STIFFENER PLATE, GR. 50		1/2"x8"		FOR USE WITH WALES, CUT TO FIT
10	4	EA	30" DOUBLE CELL BOX BEAM TYPE I	B30-3400-T	30"x7'-0"	34'-0"	DETAILED ON PLAN NOS. 0000-1212-01-02
11	2	EA	30" DOUBLE CELL BOX BEAM TYPE I	B30-3400-TW	30"x7'-0"	34'-0"	w/ MODIFIED CURB AS DETAILED THIS SHEET
12	2	EA	PRECAST ABUTMENT CAP	SA-15.72-1	24"x3'-0"	16'-3"	DETAILED ON SHEET BNSF03, THIS SET
13	2	EA	PRECAST ABUTMENT CAP	SA-15.72-3	24"x3'-0"	16'-3"	
14	2	EA	PRECAST ABUTMENT CAP	SA-15.72-2	24"x3'-0"	14'-0"	DETAILED ON SHEET BNSF04, THIS SET
15	4	EA	PRECAST CONCRETE WING WALL	W30-T	9"x6'-6 3/4"	8'-6"	DETAILED ON PLAN NO. 0000-1121-04
16	2	EA	HANDRAIL PANEL, ASTM A53, GALV.	HP3-2W-061	1 1/2" O PIPE	23'-6 3/4"	DETAILED ON SHEET BNSF05, THIS SET
17	2	EA	HANDRAIL PANEL, ASTM A53, GALV.	HP2-2W-061	1 1/2" O PIPE	13'-6 3/4"	
18	6	EA	DECK PLATE, ASTM A36, GALV.	DPT1	3/8"x1'-0"	8'-5 1/2" (BENT)	DETAILED ON PLAN NO. 0000-1910-04
19	6	EA	DECK PLATE, ASTM A36, GALV.	DPT2	3/8"x1'-0"	8'-5 1/2" (BENT)	DETAILED ON PLAN NO. 0000-1910-04
20	6	EA	CURB PLATE		3/8"x8"	7'-4"	DETAILED ON PLAN NO. 0000-1910-04
21	4	EA	CURB PLATE		3/8"x8"	6'-0"	DETAILED ON PLAN NO. 0000-1910-04
22	16	EA	PLATE WASHER, ASTM A36, GALV.	W100	3/4"x4"	4"	DETAILED ON PLAN NO. 0000-1000-06
23	10	EA	HANDRAIL BASE PLATE, ASTM A36, GALV.	HBP3	1/2"x1 1/2"	6"	DETAILED ON PLAN NO. 0000-1910-06
24	4	EA	RETAINER BRACKET	B100	3/8"x8"	1'-2 1/16"	DETAILED ON PLAN NOS. 0000-1910-05
25	8	EA	RETAINER BRACKET	B200	L7"x4"x3/4"	1'-3"	0000-1000-11
26	2	EA	TOE PLATE, ASTM A36, GALV.		L4"x3"x3/8"	23'-7"	DETAILED ON SHEET BNSF05, THIS SET
27	2	EA	TOE PLATE, ASTM A36, GALV.		L4"x3"x3/8"	13'-7"	DETAILED ON SHEET BNSF05, THIS SET
28	10	EA	HANDRAIL BASE PLATE, ASTM A36, GALV.	HPB1	3/8"x4"	6 1/2"	DETAILED ON SHEET BNSF05, THIS SET
29	1	GAL	SELF-PRIMING, ALUMINUM, PIGMENTED, LOW STRESS, HIGH SOLIDS MASTIC		8 MILS.		SEE GENERAL NOTES ON SHEET BNSF01, THIS SET
30	154	SY	IMPACT ATTENUATION MAT		1/2"x12'-10"	108'	DETAILED ON BNSF SYSTEM TRACK STANDARDS PLAN NO. 1002.01.02
31	12	EA	BEARING PAD, DUROMETER 70		3/4"x10"	6'-4"	DETAILED ON PLAN NO. 0000-1000-11
32	150	EA	TUBES POLYURETHANE JOINT SEALANT		1/10th GAL.		
33	80	L.F.	BACKER ROD		1 1/4" DIA.		
34	20	EA	BOLT, MACHINE, HEX HEAD, GALV.		3/4" DIA.	7"	FOR HANDRAIL PANELS
35	20	EA	LOCK NUT, CENTER LOCKING, ZINC PLATED		3/4"		FOR 3/4" DIA. BOLTS
36	40	EA	WASHER, FLAT, ROUND, GALV.		1 3/16" I.D.	1 1/16" O.D.	FOR 3/4" DIA. BOLTS
37	2	EA	SIGN POST, NO. 1, BLACK			11'-0"	
38	2	EA	BRIDGE NUMBER SIGN, NO. 103	15.72			DET. PLAN 3103.01.03 (TRACK STD. PLANS)
39	2	EA	KEEP OFF BRIDGE SIGN, NO. 70			12"x16"	DET. PLAN 3070.01.04 (TRACK STD. PLANS)

SUPERVISOR STRUCTURES TO FURNISH: EPOXY GROUT, AND MISC. HARDWARE AS REQUIRED

ALL WORK ITEMS IN ABOVE BILL OF MATERIAL TO BE COMPLETED BY BNSF RAILWAY FORCES.



TRIPLE TRACK ABUTMENT DETAILS



Timothy C. Galt

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INFORMATION
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DESIGNED -	NHP	REVISED -	
DRAWN -	DMR	REVISED -	
CHECKED -	TCG	REVISED -	
DATE -	02-11-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
BNSF BRIDGE MISCELLANEOUS DETAILS

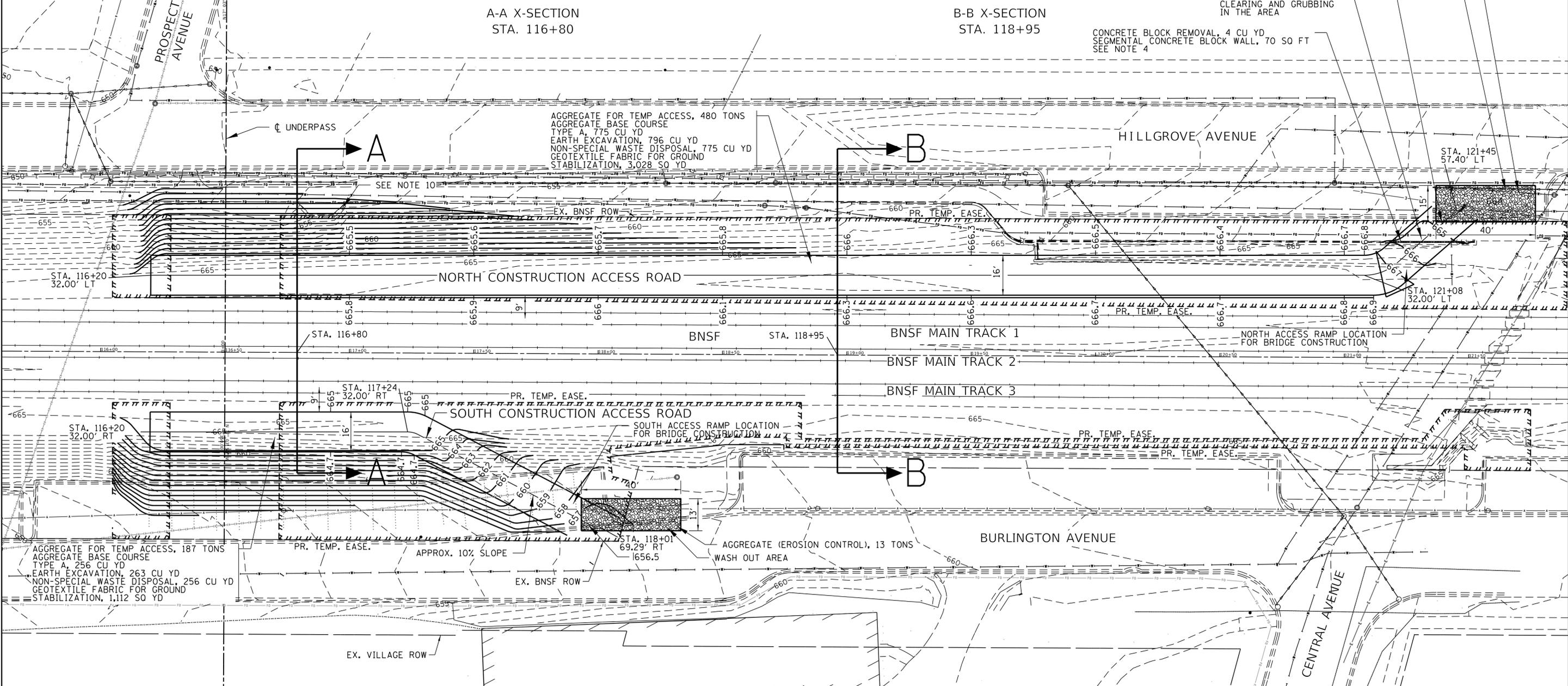
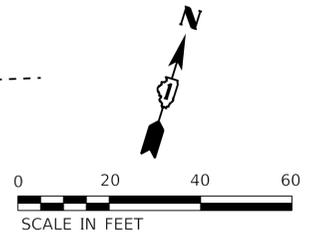
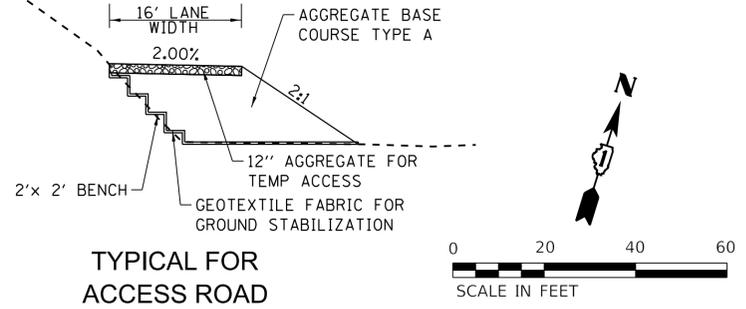
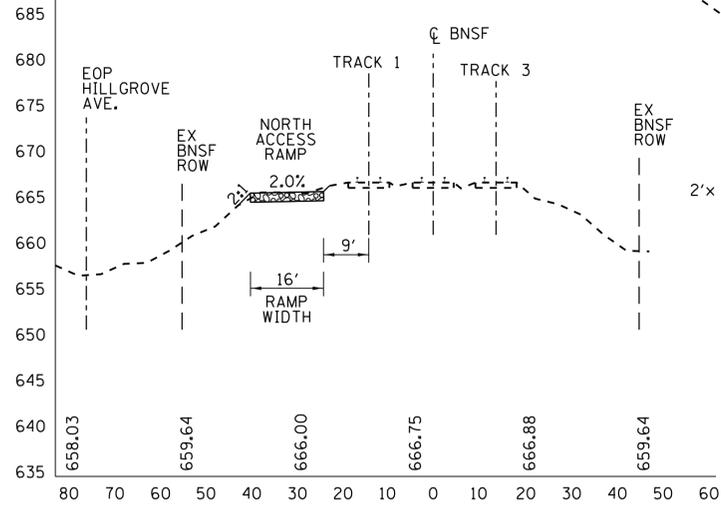
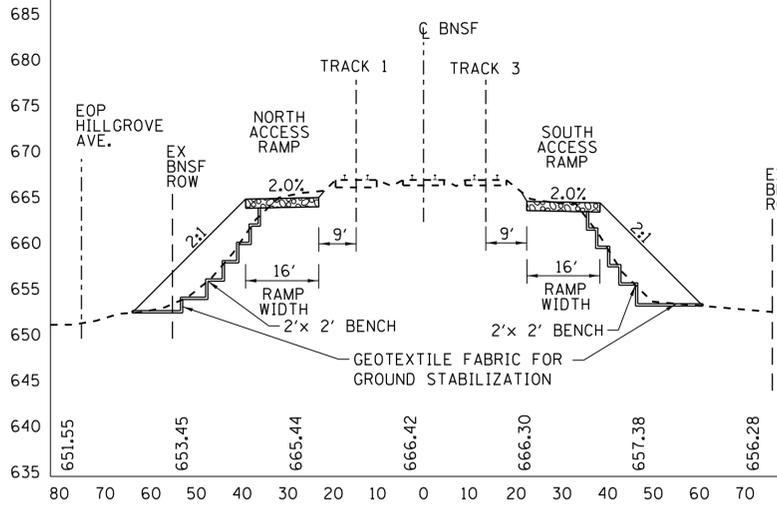
SCALE: NTS

SHEET BNSF07 OF BNSF07 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 42
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				

NOTES:

1. TEMPORARY ACCESS RAMPS SHALL BE CONSTRUCTED PRIOR TO BNSF BRIDGE CONSTRUCTION.
2. ALL ACCESS RAMP WORK SHALL CONFORM WITH BNSF STANDARDS.
3. ACCESS RAMPS SHALL BE REMOVED AFTER COMPLETION OF WORK BY BNSF.
4. REMOVE SEGMENTAL CONCRETE BLOCK WALL BEFORE CONSTRUCTION OF ACCESS RAMP. REPLACE SEGMENTAL CONCRETE BLOCK WALL AFTER ACCESS RAMP IS REMOVED.
5. CONTRACTOR SHALL CONSTRUCT ACCESS ROADS TO THE MINIMUM AGGREGATE THICKNESS OF 12".
6. CONTRACTOR COORDINATE WITH RAILROAD FOR ANY UNDERGROUND UTILITY PRIOR TO THE WORK.
7. TEMPORARY TIMBER PLATFORM TO BE PROVIDED BY RAILROAD.
8. FOR PLACEMENT OF EROSION CONTROL SEE SHEET 14.
9. AGGREGATE BASE COURSE REMOVAL TO BE INCLUDED IN THE PAY ITEM EARTH EXCAVATION.
10. CONTRACTOR SHALL PROTECT EX. BENCH AND RETAINING WALL FACILITY. ANY REMOVAL WILL NEED TO BE COORDINATED WITH WESTERN SPRINGS. NO ADDITIONAL PAYMENT FOR THIS AS IT IS INCLUDED IN PAY ITEMS.



AGGREGATE FOR TEMP ACCESS, 187 TONS
 AGGREGATE BASE COURSE TYPE A, 256 CU YD
 EARTH EXCAVATION, 263 CU YD
 NON-SPECIAL WASTE DISPOSAL, 256 CU YD
 GEOTEXTILE FABRIC FOR GROUND STABILIZATION, 1,112 SQ YD

AGGREGATE FOR TEMP ACCESS, 480 TONS
 AGGREGATE BASE COURSE TYPE A, 775 CU YD
 EARTH EXCAVATION, 796 CU YD
 NON-SPECIAL WASTE DISPOSAL, 775 CU YD
 GEOTEXTILE FABRIC FOR GROUND STABILIZATION, 3,028 SQ YD

AGGREGATE (EROSION CONTROL), 15 TONS
 WASH OUT AREA
 APPROX. 10% SLOPE
 1 TREE AT 6 UNITS (BLACK WALNUT) & CLEARING AND GRUBBING IN THE AREA
 CONCRETE BLOCK REMOVAL, 4 CU YD
 SEGMENTAL CONCRETE BLOCK WALL, 70 SQ FT
 SEE NOTE 4



DESIGNED - JAV
 DRAWN - SHR
 CHECKED - RDC
 DATE - 02-11-2020

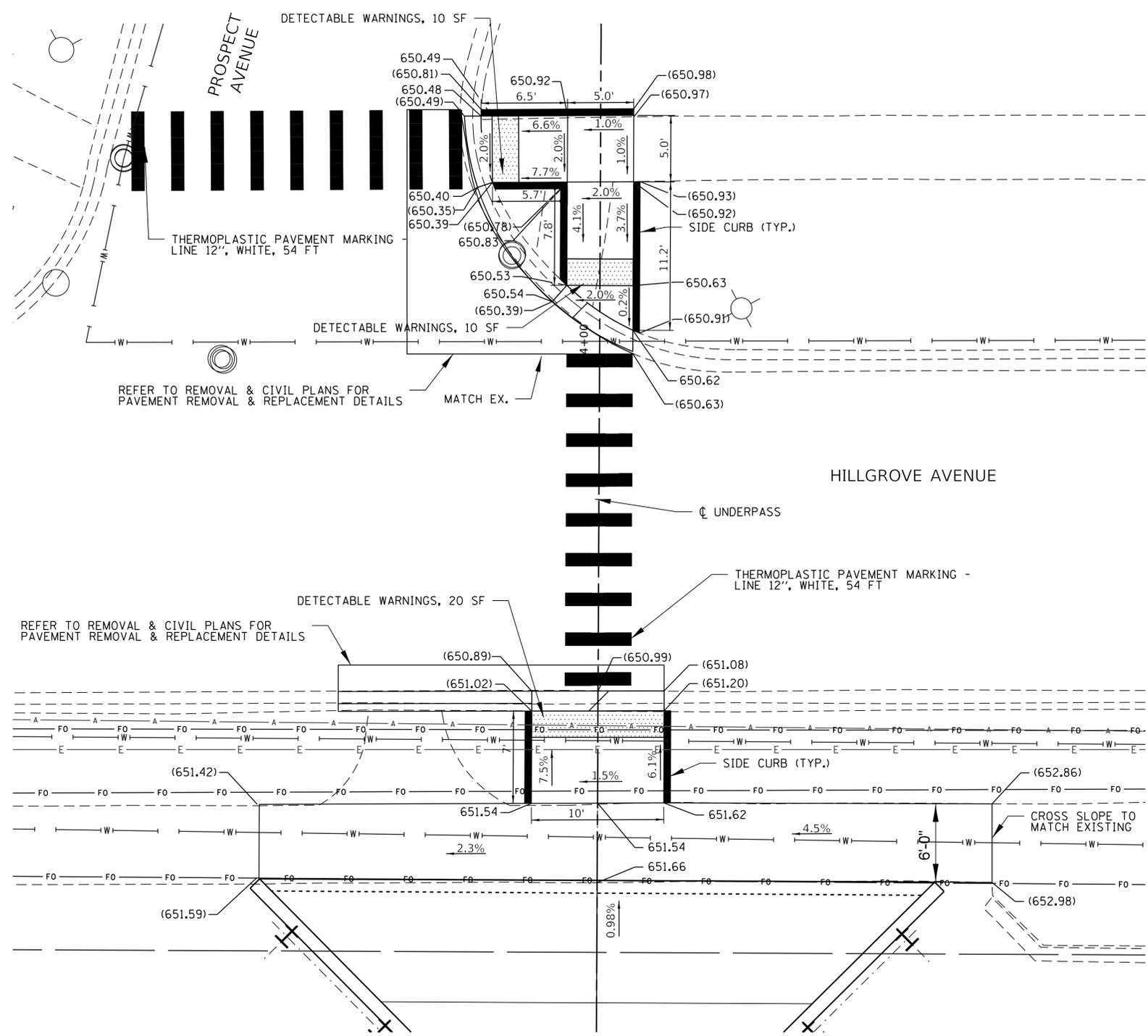
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
 TEMPORARY GRADING & ACCESS ROAD**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS

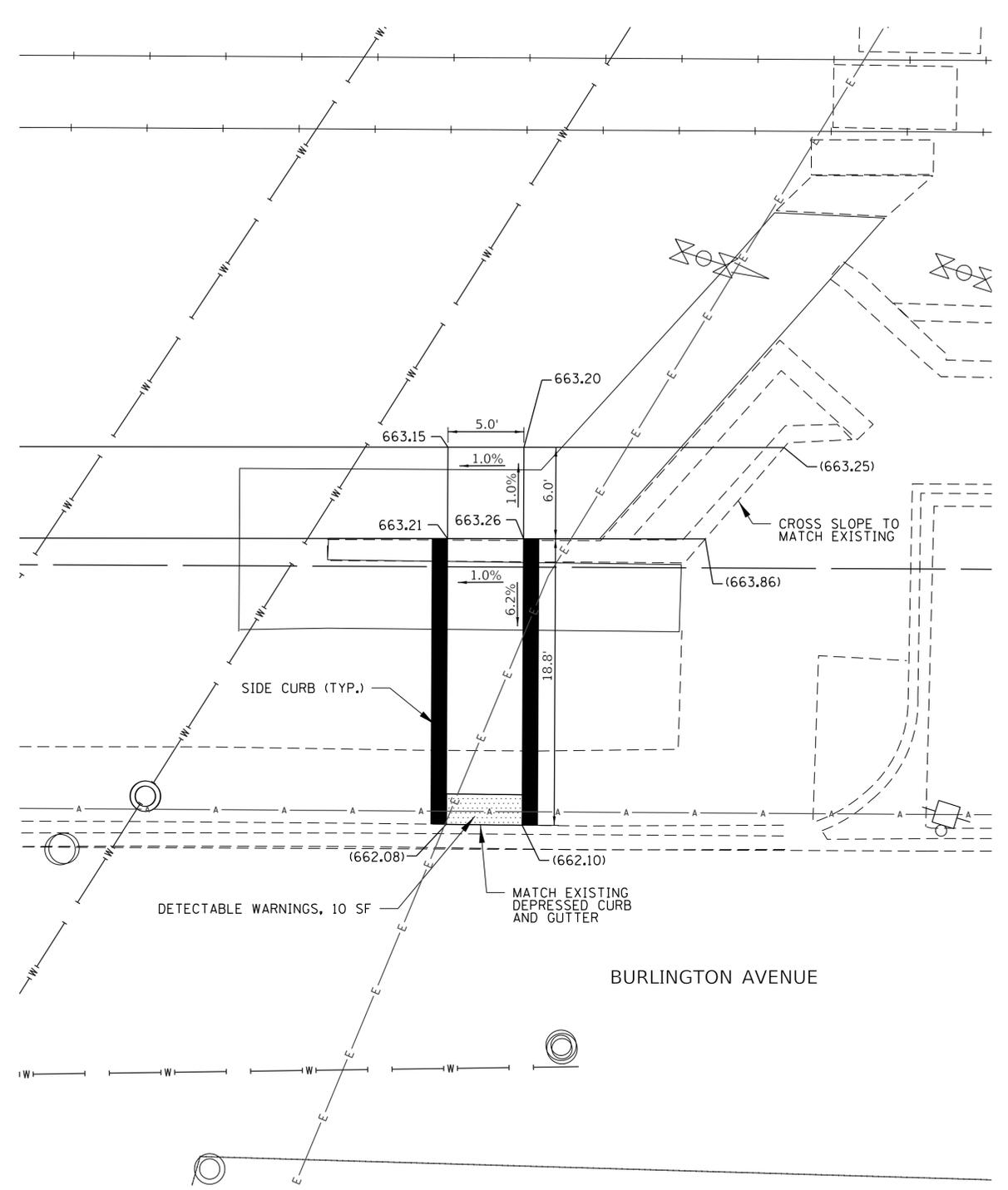
F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 43
CONTRACT NO. 61G33				ILLINOIS FED. AID PROJECT



LEGEND

- () EXISTING ELEVATION/SLOPE
- DETECTABLE WARNINGS
- DEPRESSED CURB AND GUTTER
- SIDE CURB
- PROPOSED SIDEWALK

SCALE IN FEET



LEGEND

- () EXISTING ELEVATION/SLOPE
- DETECTABLE WARNINGS
- DEPRESSED CURB AND GUTTER
- SIDE CURB
- PROPOSED SIDEWALK

SCALE IN FEET



DESIGNED - JAV	REVISED -
DRAWN - SHR	REVISED -
CHECKED - RDC	REVISED -
DATE - 02-11-2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
ADA RAMP DETAILS**

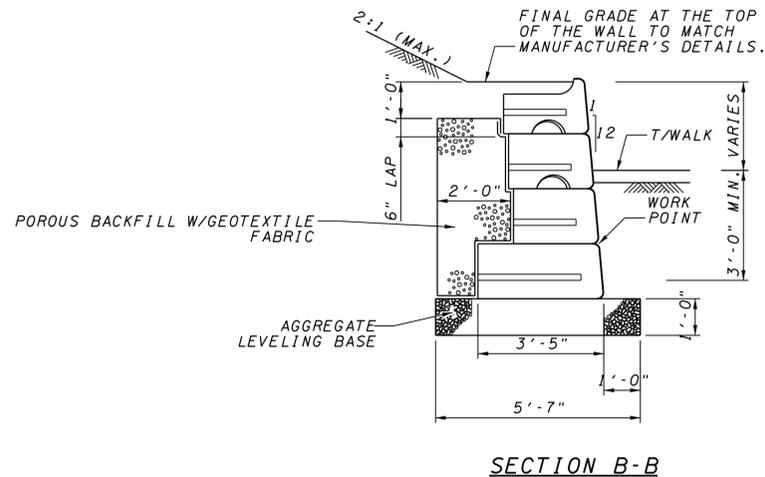
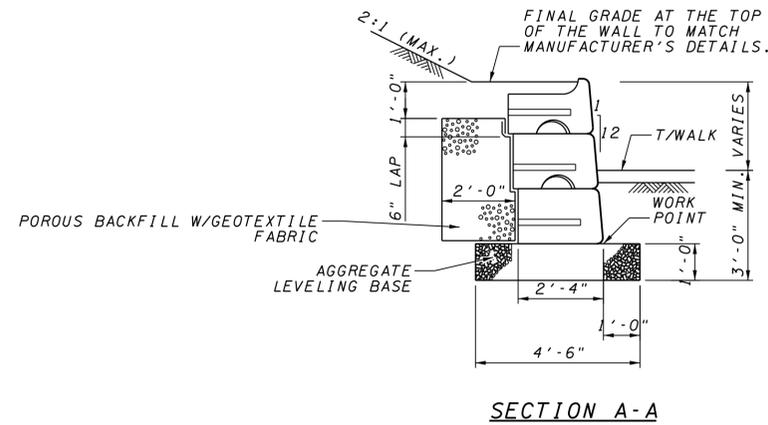
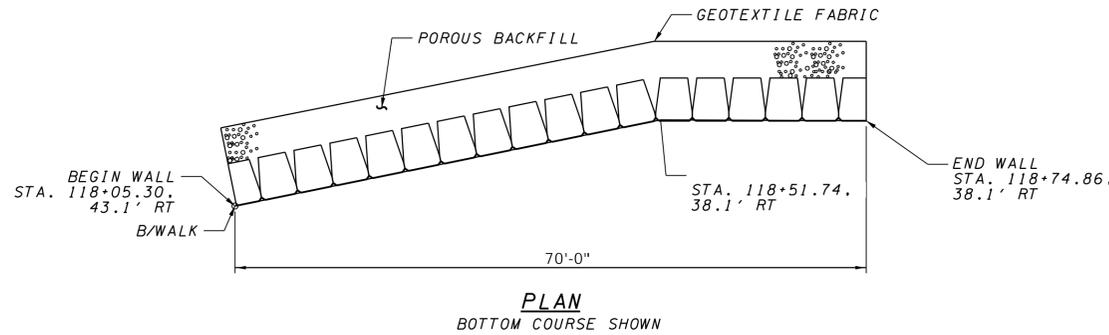
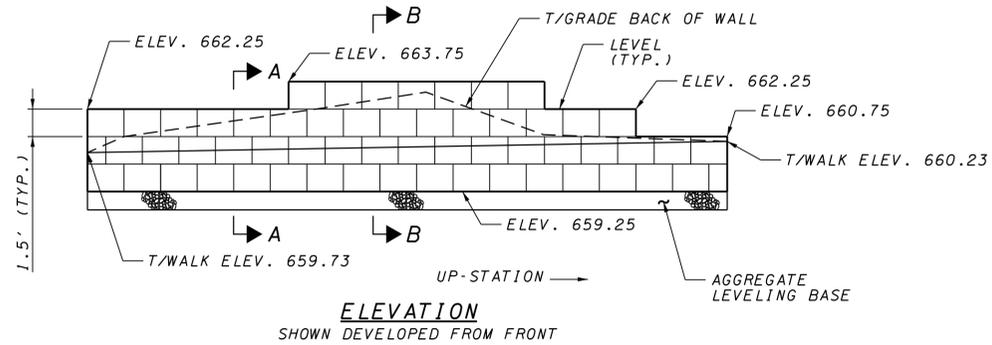
SCALE: 1"=5' SHEET 1 OF 1 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 44
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				

NOTES:

- DESIGN THE WALL TO CARRY THE BACKSLOPE SHOWN IN THE CROSS SECTION AT STA. 118+50 ON SHEET 46.
- DESIGN THE WALL FOR IN-SITU SOIL BEHIND AND BELOW THE PROPOSED WALL HAVING THESE CHARACTERISTICS:
 - FRICTION ANGLE: 24°
 - UNIT WEIGHT (γ): 120 PCF
 - ALLOWABLE BEARING CAPACITY: 1,000 PSF
- BLOCKS ARE TO BE SMOOTH, UNTEXTURED, AND NATURALLY COLORED. THE CONTRACTOR WILL NEED TO SUBMIT PRODUCT CUT SHEETS AND COLOR SAMPLES FOR APPROVAL FROM ENGINEER.

QUANTITIES (CARRIED TO GENERAL SUMMARY)			
PAY ITEM	UNIT	TOTAL	DESCRIPTION
			RETAINING WALL STA. 118+05.30 TO STA. 118+74.86 (RT)
20700110	CU YD	25	POROUS GRANULAR BACKFILL
21001000	SQ YD	16	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
50200100	CU YD	65	STRUCTURE EXCAVATION
52200800	SQ FT	280	SEGMENTAL CONCRETE BLOCK WALL



LEGEND

- B/ - BACK OF
- ELEV. - ELEVATION
- MAX. - MAXIMUM
- MIN. - MINIMUM
- RT - RIGHT
- TYP. - TYPICAL
- W/ - WITH



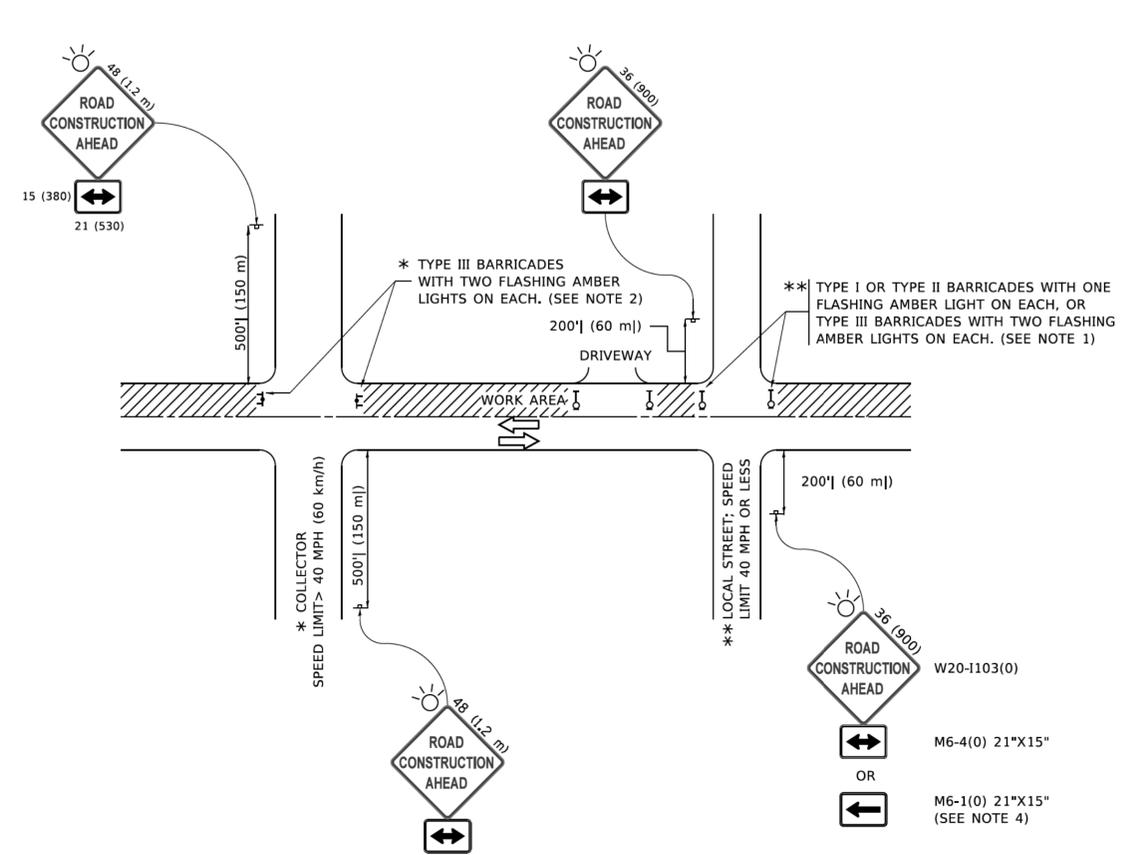
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 02-11-2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
SEGMENTAL CONCRETE BLOCK WALL DETAILS

SCALE: NTS SHEET 1 OF 1 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 45
CONTRACT NO. 61G33				
ILLINOIS FED. AID PROJECT				

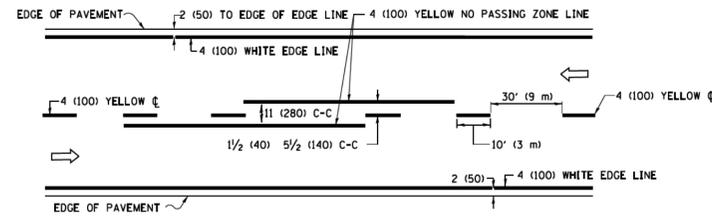


NOTES:

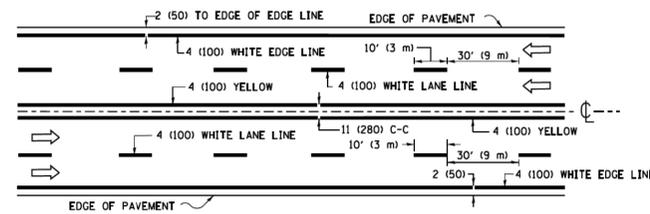
1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

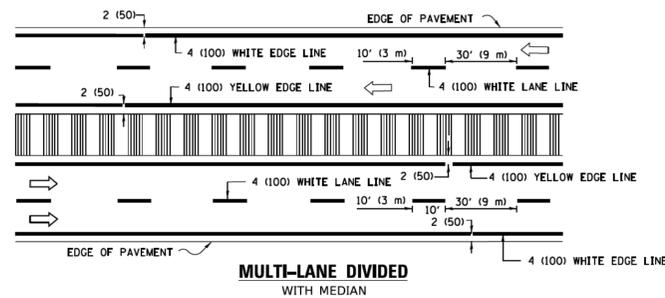
M MOTT MACDONALD	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS DISTRICT 1 DETAIL - TC-10	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	DRAWN -	REVISED -			3782 & 3783	18-00097-00-BR	COOK	52	46		
	CHECKED -	REVISED -			CONTRACT NO. 61G33						
	DATE - 02-11-2020	REVISED -			ILLINOIS FED. AID PROJECT						
					SCALE: NTS	SHEET 1 OF 1 SHEETS					



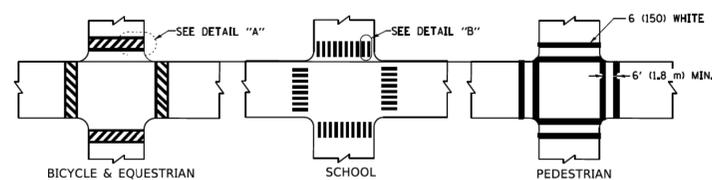
2-LANE ROADWAY



MULTI-LANE UNDIVIDED

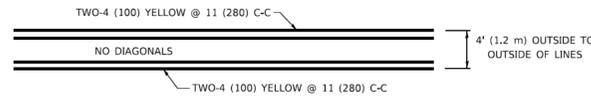


TYPICAL LANE AND EDGE LINE MARKING

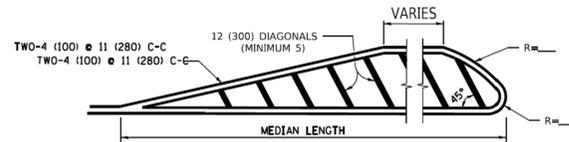


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



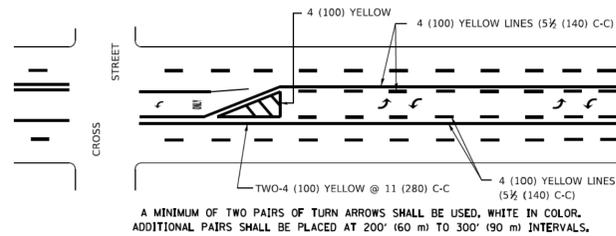
4' (1.2 m) WIDE MEDIANS ONLY



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

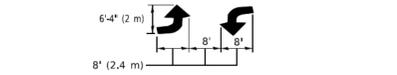
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



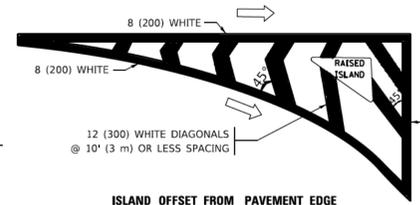
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

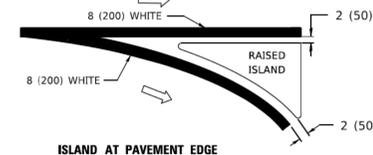
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.

AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

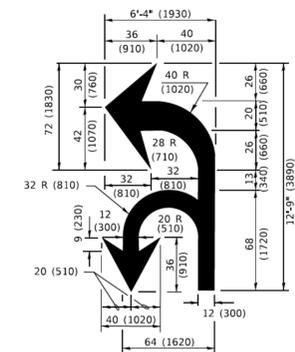
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



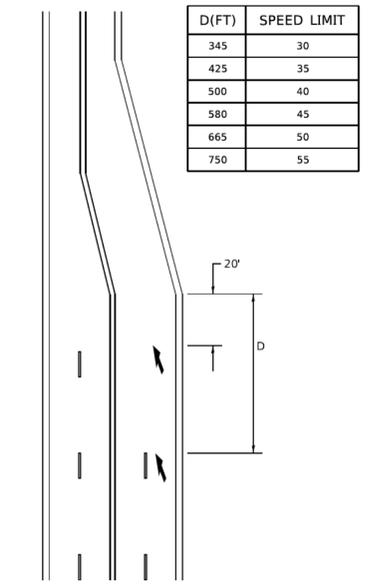
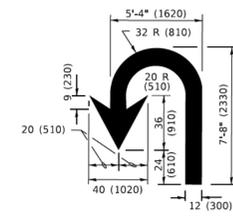
ISLAND OFFSET FROM PAVEMENT EDGE



TYPICAL ISLAND MARKING



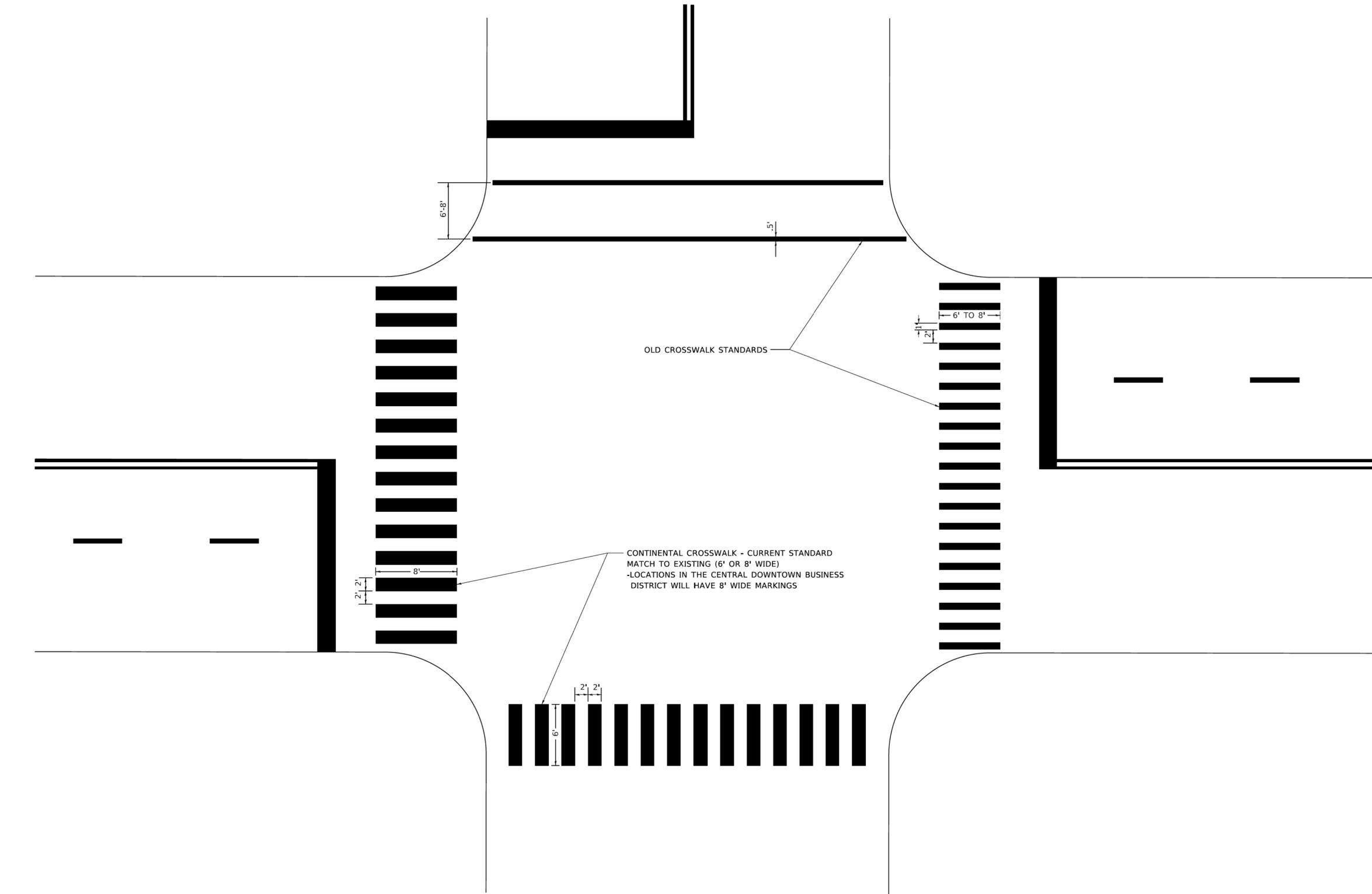
COMBINATION LEFT AND U-TURN



TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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



OLD CROSSWALK STANDARDS

CONTINENTAL CROSSWALK - CURRENT STANDARD
 MATCH TO EXISTING (6' OR 8' WIDE)
 -LOCATIONS IN THE CENTRAL DOWNTOWN BUSINESS
 DISTRICT WILL HAVE 8' WIDE MARKINGS



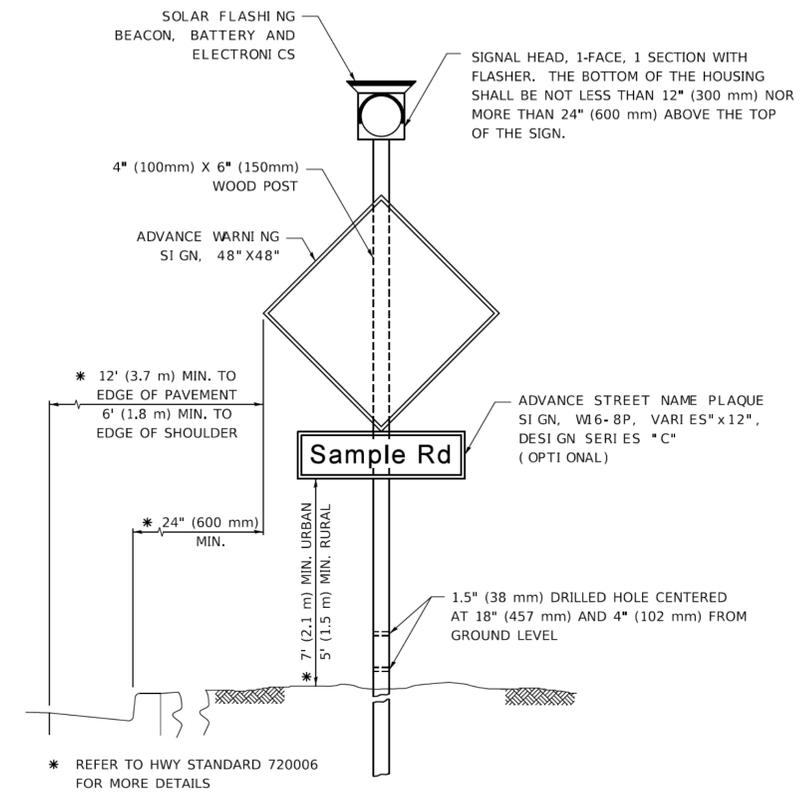
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 02-11-2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
 DISTRICT 1 DETAIL - TC-24**

SCALE: NTS SHEET 1 OF 1 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 48
ILLINOIS FED. AID PROJECT				CONTRACT NO. 61G33



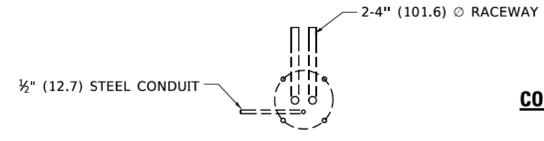
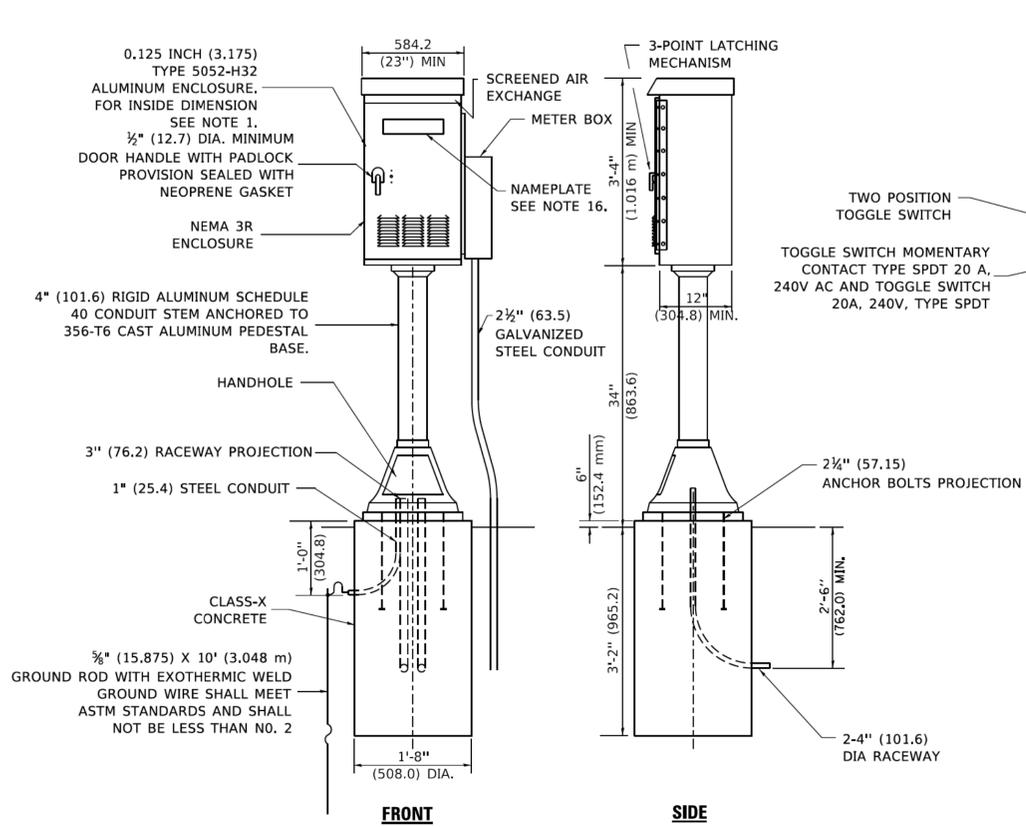
**SOLAR POWERED FLASHING
BEACON**

	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE - 02-11-2020	REVISED -

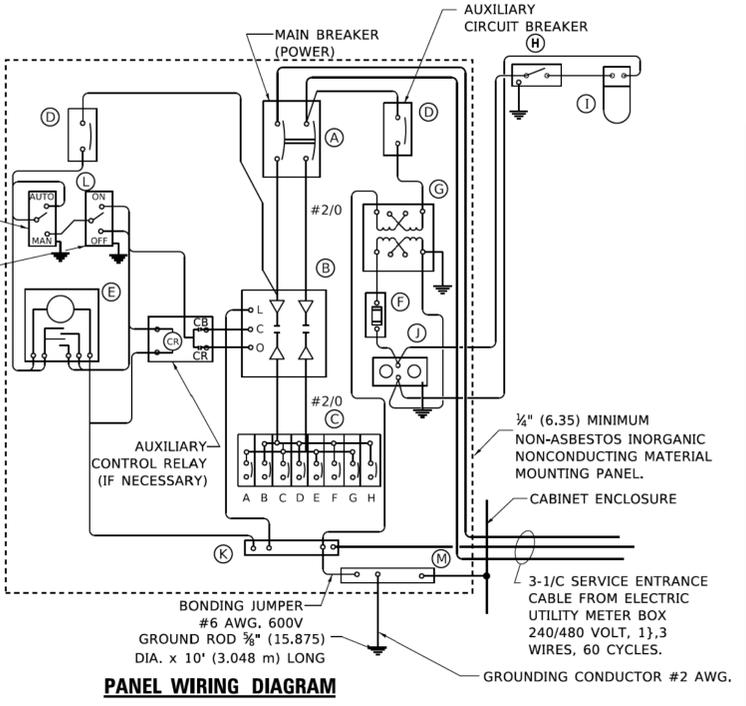
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS DISTRICT 1 DETAIL - TS-04	
SCALE: NTS	SHEET 1 OF 1 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 49
CONTRACT NO. 61G33				ILLINOIS FED. AID PROJECT



CONTROL CABINET



PANEL EQUIPMENT

BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	8	CIRCUIT BREAKERS, 1 POLE, 277V., 100 AMP., FRAME 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER. 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCH].
F	1	20 A., 120 V. FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 Hz.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
M	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- UNLESS OTHERWISE INDICATED, THE CABINET SHALL BE MOUNTED ATOP A 4-INCH (101.6 mm) RIGID ALUMINUM SCHEDULE 40 CONDUIT STEM ANCHORED TO A CAST ALUMINUM PEDESTAL BASE.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18.288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1#4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.



DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 02-11-2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
DISTRICT 1 DETAIL - BE-210**

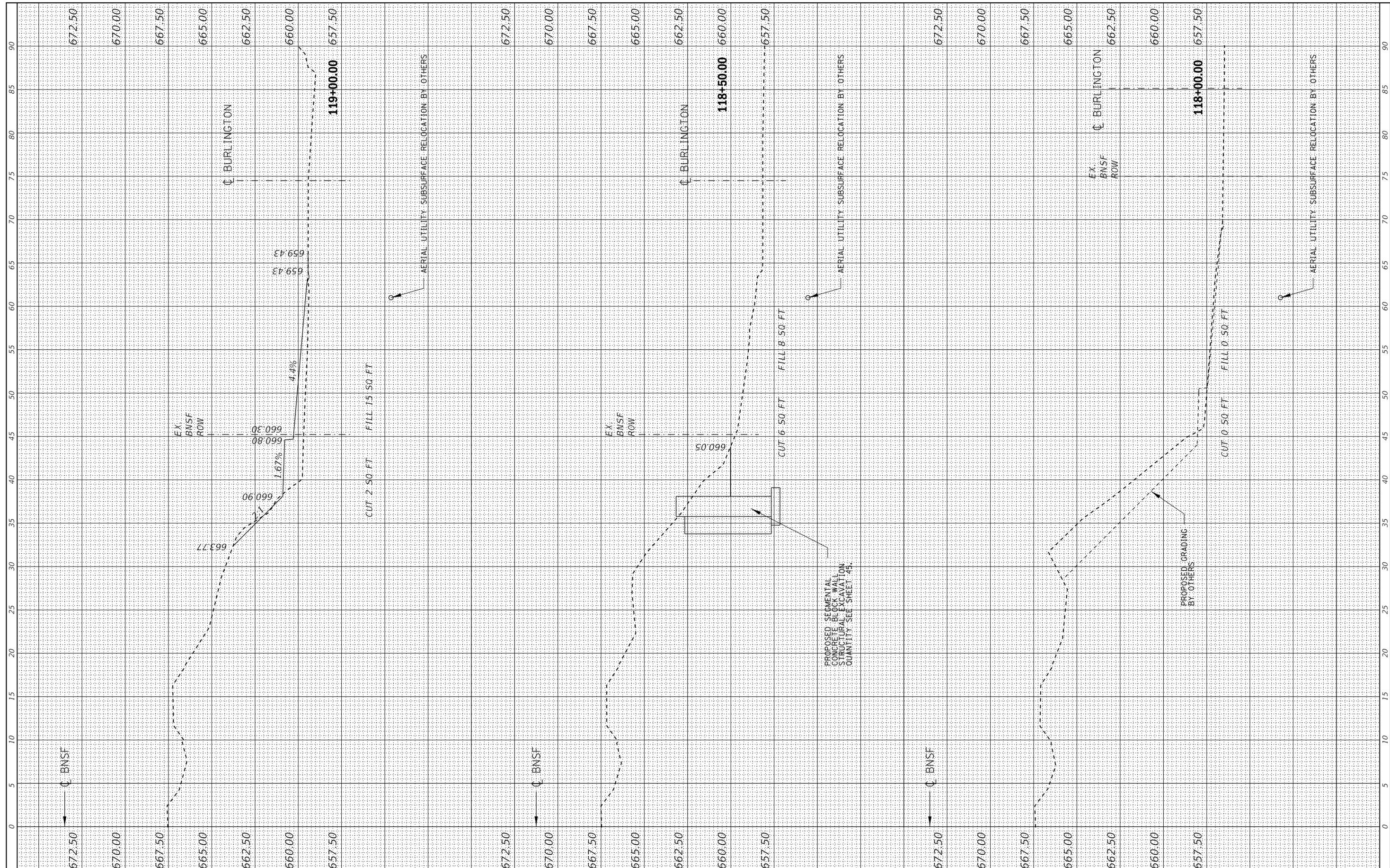
SCALE: NTS SHEET 1 OF 1 SHEETS

F.A.U. RTE. 3782 & 3783	SECTION 18-00097-00-BR	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 50
CONTRACT NO. 61G33				

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME = **M**
 #FILE# **M**
 MOTT MACDONALD

USER NAME = *USER*
 DESIGNED - JAV
 DRAWN - SHR
 CHECKED - RDC
 DATE - 02-11-2020

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

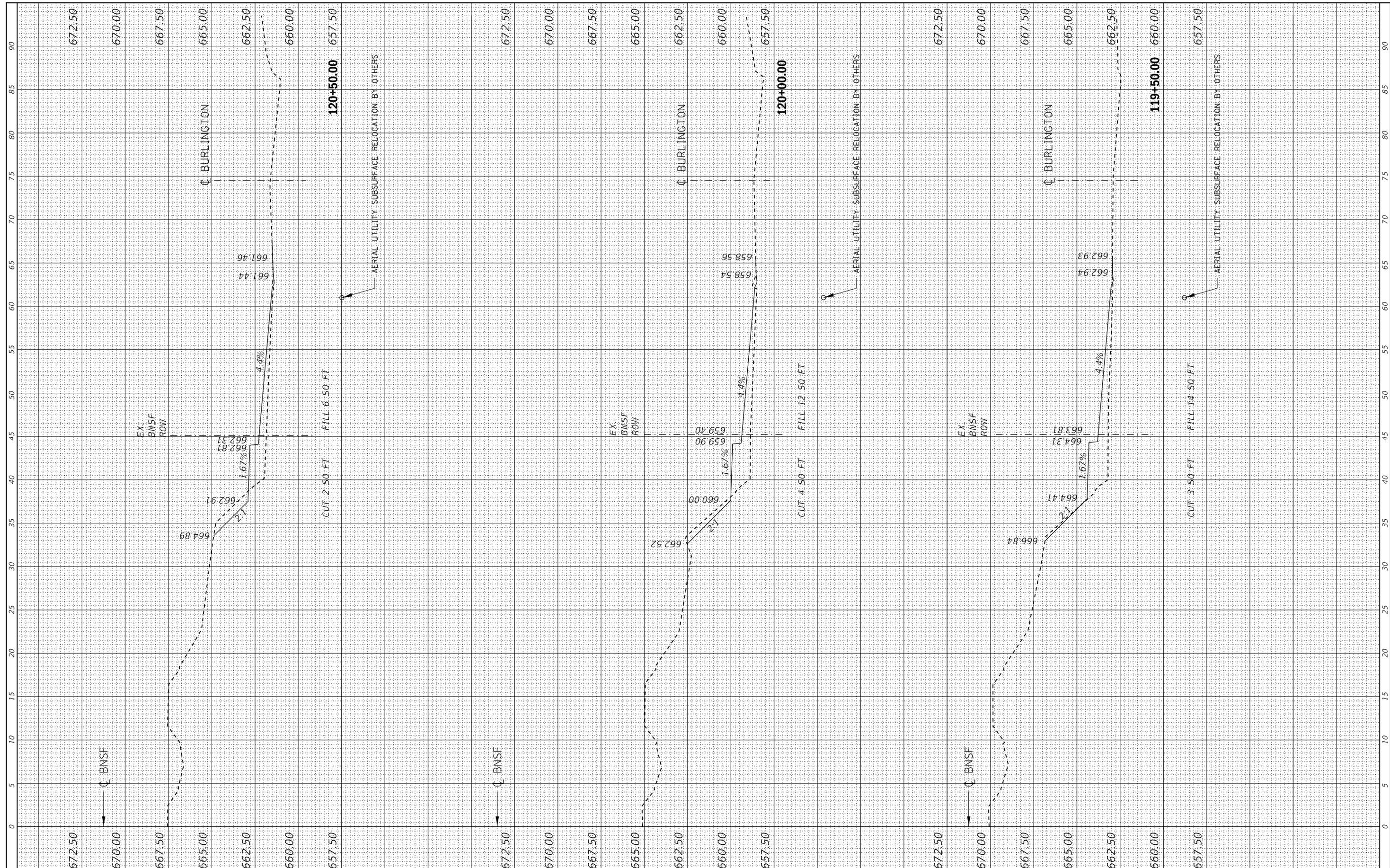
WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
CROSS SECTIONS

SCALE: 5 SHEET NO. 1 OF 2 SHEETS STA. 118+00 TO STA. 119+00

F.A. RTE. 3782 & 3783	SECTION 08-00088-00BT	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 51
CONTRACT NO. 61G33				ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME = **M**
 #FILE# **M**
MOTT MACDONALD

USER NAME = *USER*	DESIGNED - JAV	REVISED -
	DRAWN - SHR	REVISED -
PLOT SCALE = *SCALE*	CHECKED - RDC	REVISED -
PLOT DATE = *DATE*	DATE - 02-11-2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTERN SPRINGS BNSF PEDESTRIAN UNDERPASS
CROSS SECTIONS

SCALE: 5 SHEET NO. 2 OF 2 SHEETS STA. 119+50 TO STA. 120+50

F.A. RTE. 3782 & 3783	SECTION 08-00088-00BT	COUNTY COOK	TOTAL SHEETS 52	SHEET NO. 52
CONTRACT NO. 61G33			ILLINOIS FED. AID PROJECT	