

GENERAL NOTES:

- Reinforcement bars designated (E) shall be epoxy coated.
- Slip forming of the barrier rail is not allowed.
- Protective Coat shall be applied to the designated areas of Anchor Slabs and Barrier Rails.
- Stations and Offsets are measured from the Baseline of Ramp NW to the Front Face of Precast Panels for MSE Wall and to Front Face of Concrete Facing for Soldier Pile Wall.
- Existing abandoned 5' dia. brick CTA water tunnel to be located and filled by others in Contract 60W26 prior to construction. Soldier pile construction shall not start until tunnel filling is complete. Drilling operations must account for presence of debris, soil, tunnel, and other expected materials.
- Proposed Siphon reconstruction to occur prior to Ramp NW construction by others in Contract 60W29.
- Aggregate Column Ground Improvement is shown here for information only. Aggregate Column Ground Improvement pay item is included in Retaining Wall 3 (SN 016-1722) Bill of Material.
- See Special Provision for Mechanically Stabilized Earth Retaining Wall, Special for design and construction requirements.
- Anchor Slab and Barrier Rail concrete shall be paid for as Concrete Superstructure.
- For Drainage Structure location, type, and size, see Drainage Sheets.
- MSE supplier to design load transfer systems within reinforced soil mass to accommodate drainage structures and abutment foundations.
- Noise abatement wall, foundations, and connections are paid for under Noise Abatement Wall, Ground Mounted and Noise Abatement Wall, Structure Mounted pay items. See Noise Abatement Wall plans.
- The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge and other loads applied to the structures will not have detrimental effects on the adjacent buildings and utilities. See Special Provision for Construction Vibration Monitoring.

TABLE 1

Wall Type	Station	Offset	Elevation D	Elevation E	Elevation F
MSE	1838+23.17	18'-5 1/8" Rt.	600.25	594.54	584.17
MSE	1838+25.00	18'-4" Rt.	600.16	594.50	584.22
MSE	1838+44.32	17'-3" Rt.	598.83	594.13	584.94
MSE	1838+50.00	17'-3" Rt.	598.44	594.02	585.25
MSE	1838+62.00	17'-3" Rt.	597.61	593.79	585.83
MSE	1838+75.00	17'-3" Rt.	596.71	593.54	586.17
Soldier Pile	1838+98.00	16'-0" Rt.	595.11	593.10	588.44
Soldier Pile	1839+00.00	16'-0" Rt.	594.97	593.10	588.49
Soldier Pile	1839+25.00	16'-0" Rt.	593.24	593.20	588.66
Soldier Pile	1839+50.00	16'-0" Rt.	591.50	593.29	588.63
Soldier Pile	1839+75.00	16'-0" Rt.	589.76	593.38	588.64
Soldier Pile	1840+00.00	16'-0" Rt.	588.03	593.48	588.61
Soldier Pile	1840+17.00	16'-0" Rt.	586.85	593.54	588.61
Soldier Pile	1840+25.00	16'-0" Rt.	586.29	593.57	588.61
Soldier Pile	1840+50.19	16'-0" Rt.	584.56	593.66	588.60
Soldier Pile	1840+75.00	17'-8 3/4" Rt.	582.96	593.75	589.51
Soldier Pile	1841+00.00	19'-5 3/4" Rt.	581.53	593.84	590.47
Soldier Pile	1841+25.00	21'-2 3/4" Rt.	580.30	593.93	591.52
Soldier Pile	1841+26.23	21'-3 3/4" Rt.	580.24	593.94	591.56

Elevation D - Edge of Shoulder at Face of Barrier Rail / Concrete Facing
 Elevation E - Proposed Grade Line at Front Face of MSE Wall / Back Face of Soldier Pile Wall
 Elevation F - Existing Grade Line at Front Face of MSE Wall / Back Face of Soldier Pile Wall

TOTAL BILL OF MATERIAL:

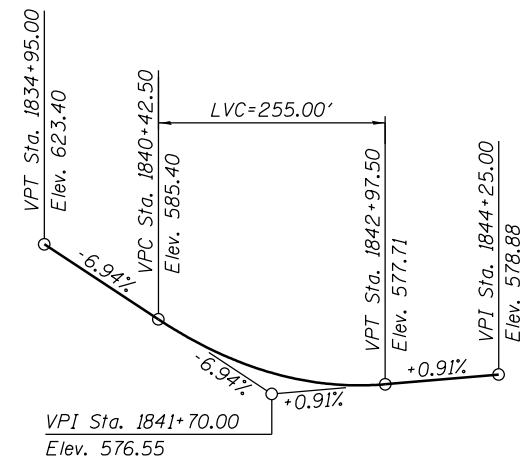
DESCRIPTION	UNIT	TOTAL
STRUCTURE EXCAVATION	CU. YD.	101
CONCRETE STRUCTURES	CU. YD.	211
CONCRETE SUPERSTRUCTURE	CU. YD.	55
BRIDGE DECK GROOVING (SPECIAL)	SQ. YD.	29
PROTECTIVE COAT	SQ. YD.	130
STUD SHEAR CONNECTORS	EACH	385
REINFORCEMENT BARS, EPOXY COATED	POUND	68,860
NAME PLATES	EACH	1
CONCRETE SEALER	SQ. FT.	6,422
GEOCOMPOSITE WALL DRAIN	SQ. YD.	73
DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU. FT.	25,533
LIGHTWEIGHT CELLULAR CONCRETE FILL (CLASS II)	CU. YD.	136
UNTREATED TIMBER LAGGING	SQ. FT.	1,000
FURNISHING SOLDIER PILES (W SECTION)	FOOT	2,016
MECHANICALLY STABILIZED EARTH RETAINING WALL, SPECIAL	SQ. FT.	430
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	157
FOUNDATION REMOVAL	CU. YD.	63

INDEX OF SHEETS:

- RW4-01 General Plan and Elevation
- RW4-02 Total Bill of Materials, Index of Sheets & General Notes
- RW4-03 Typical Sections
- RW4-04 Barrier Rail and Anchor Slab - I
- RW4-05 Barrier Rail and Anchor Slab - II
- RW4-06 Barrier Rail and Anchor Slab Sections
- RW4-07 Concrete Facing Elevation & Details
- RW4-08 Soldier Pile Wall Sections & Details
- RW4-09 Soldier Pile Cap & Barrier
- RW4-10 Details
- RW4-11 Architectural Details
- RW4-12 Boring Logs - I
- RW4-13 Boring Logs - II
- RW4-14 Boring Logs - III
- RW4-15 Boring Logs - IV

SUGGESTED SEQUENCE OF CONSTRUCTION:

- Locate existing utilities that are to remain. Contractor to coordinate any required improvements to or removals of existing utilities with utility owner(s). See Utility Location Plans and ITS Plans.
- Locate and remove any abandoned CTA foundations that are in conflict with Retaining Walls 3, 4, 40, or Noise Abatement Wall.
- Install drilled soldier piles for Retaining Wall 4 soldier pile wall.
- Install drilled shafts for SN 016-1705 West Abutment.
- Install foundations for Noise Abatement Wall.
- Excavate for Retaining Walls 3, 4, and 40. Install temporary lagging between soldier piles of Retaining Wall 4 from top down as excavation proceeds if needed to retain existing soil.
- Install Aggregate Column Ground Improvement for Retaining Walls 3, 4, and 40.
- Construct Retaining Wall 40, placing MSE straps to avoid Noise Abatement Wall foundations.
- Begin placing lightweight fill and installing Retaining Wall 3 up to height of Retaining Wall 4 MSE leveling pad. Install Drainage System.
- Install Concrete Facing on soldier piles of Retaining Wall 4. Backfill north side of wall.
- Complete West Abutment of SN 016-1705. Install Retaining Wall 4 soldier pile cap and barrier on top of piles and concrete facing.
- Complete remainder of Retaining Wall 3 while installing MSE portion of Retaining Wall 4.
- Install Anchor Slabs and Barrier Rails for Retaining Walls 3 and 4.
- Install Roadway pavement and Noise Abatement Wall.



PROFILE GRADE
(along Ramp NW)

STATION 1838+23.17
 BUILT BY
 STATE OF ILLINOIS
 F.A.I. RTE. 90/94/290-SEC. 2013-010R
 LOADING HL-93
 STRUCTURE NO. 016-1723

NAME PLATE
See Std. 515001

0161723-60W28-502-GenNote



USER NAME = dunkerleyb	DESIGNED - DEV	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - BRD	REVISED
PLOT DATE = 4/28/2014	CHECKED - EJO	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIALS, INDEX OF SHEETS & GENERAL NOTES
 STRUCTURE NO. 016-1723

SHEET NO. RW4-020F RW4-15 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 556
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT -NUMBER-	