F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2508	02-00039-00-PV	KENDALL	146	102
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-02 87333

LEGEND

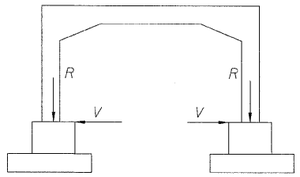
cts. = centers
Ea. = Each
f. = Face
Bk. = Back
Inv. = Invert
℄ = Centerline
P.C.C. = Portland Cement Concrete
C.I.P. = Cast In Place
H.W. = High Water
Elev. = Elevation
Typ. = Typical
⌖ = Soil Boring Location (In Plan)
Sta. = Station
R.O.W. = right-of-way
Exist. = Existing
Prop. = Proposed
PGL = Profile Grade Line
C&G = Curb and Gutter
B.O.P. = Bottom of Pipe (See Note 11. this Sheet)

—— T —— = Exist. Underground Phone / Fiber Optic Line

—— E —— = Exist. Overhead Electric Line

—— G —— = Exist. Underground Gas Line

—— W —— = Exist. or Prop. (as noted) Underground Water Main



DESIGN SERVICE LOADS

R	DL	12.4 KLF
	LL	5.2 KLF
	Total	17.6 KLF
V	DL	6 KLF
	LL	3 KLF
	Total	9 KLF

The footing design is based on the following maximum reactions, at the top of the footing/pedestal wall:

Exterior footings: 17.6 klf (vertical), 9 klf (horizontal)

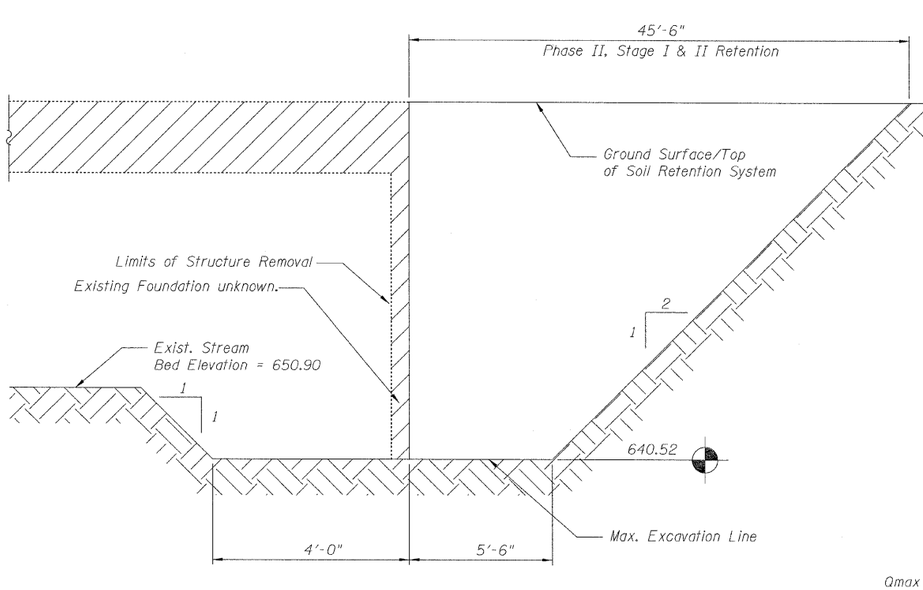
The Contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete footing design with calculations, details, and the required seals shall be submitted for review and approval.

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
	Earth Excavation	Cu. Yd.	---	1,300	1,300
*	Porous Granular Embankment (Special)	Cu. Yd.	---	183	183
	Porous Granular Backfill	Cu. Yd.	---	124	124
	Stone Rip Rap Class A5	Tons	---	450	450
	Filter Fabric	Sq. Yd.	---	400	400
	Removal of Existing Structures	Lsum	---	1	1
	Structure Excavation	Cu. Yd.	---	1,216	1,216
	Concrete Structures	Cu. Yd.	---	225	225
	Reinforcement Bars (Epoxy Coated)	Pound	---	21,440	21,440
	Bar Splicers	Each	---	80	80
	Parapet Railing	Foot	112	---	112
	Temporary Soil Retaining System	Sq. Ft.	---	1,046	1,046
*	Name Plates	Each	---	1	1
*	Three Sided Precast Concrete Structure, 35' x 9'	Foot	93	---	93
*	Anti-Graffiti Coating	Sq. Ft.	375	500	875
*	Precast Concrete Substructure	Lsum	---	1	1
	Geocomposite Wall Drain	Sq. Yd.	---	155	155

GENERAL NOTES

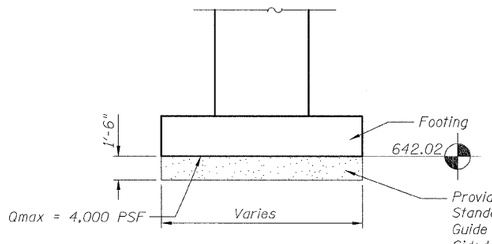
1. Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60, (IL Modified). See special provisions.
2. Reinforcement bars designated (E) shall be Epoxy Coated.
3. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
4. The backface of the wingwalls shall be waterproofed according to Article 503.18 of the Standard Specifications.
5. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
6. Layout of the slope protetions system may be varied to suit ground conditions in the field as directed by the Engineer.
7. All construction joints shall be bonded.
8. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the existing abutments at the stage removal line before Stage 1 Removal to ensure the remaining portion will not be prematurely damaged..
9. Anti-Graffiti Coating shall be applied to the following concrete surfaces: inside and outside face of Wing Walls & Precast Headwalls above grade. See Anti-Graffiti Coating Special Provision for requirements.
10. Dewatering shall be paid for per the Guide Bridge Special Provision for Three Sided Precast Concrete Structure
11. Utility elevation and plan locations shown are based upon information made available at the time of design. Contractor shall retain sole responsibility for locating all utilities at the time of construction.



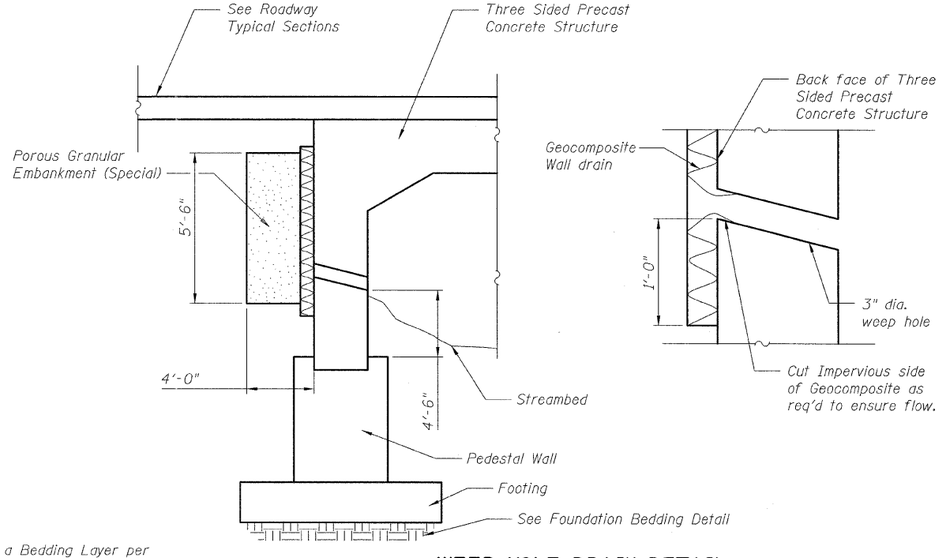
TEMPORARY SOIL RETENTION SYSTEM TYPICAL EACH SIDE

- *A cantilevered sheet piling design does not appear feasible and additional members or other rentention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.*

- *Soil Borings indicate possible rock at elevations 625.00 to 628.00*



FOUNDATION BEDDING DETAIL



WEEP HOLE DRAIN DETAIL

- *Use similar detail for weep holes at cast in place wing walls.*
- *Weep holes shall be 8'-0" o.c. max.*

PLAN / PROFILE — SURVEYED / PLOTTED / DRAWN / ALIGNMENT CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

$TIME$
$DATE$
$FILE$

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.U. 2508 – DOUGLAS ROAD (U.S. RTE 34 TO U.S. RTE 30)

GENERAL NOTES AND TOTAL BILL OF MATERIAL
DOUGLAS ROAD OVER WAUBONSEE CREEK
SECTION 02-00039-00-PV, STA. 49+42
SN 047-6306, KENDALL COUNTY

SCALE: VERT. HORIZ. DRAWN BY
DATE CHECKED BY

Illinois Professional Design Firm # 184-000108
SEC GROUP, INC.
Smith Engineering Consultants • SEC Automation • SEC Planning
4500 Prime Pkwy, McHenry, IL 60050-2136
t. 815.385.1778 f. 815.385.1781
www.secgroupinc.com engineering@secgroupinc.com