

Bench Mark: Set iron rod in south gravel apron
 Station 201+22.66 33.3'RT.
 Elevation 680.23

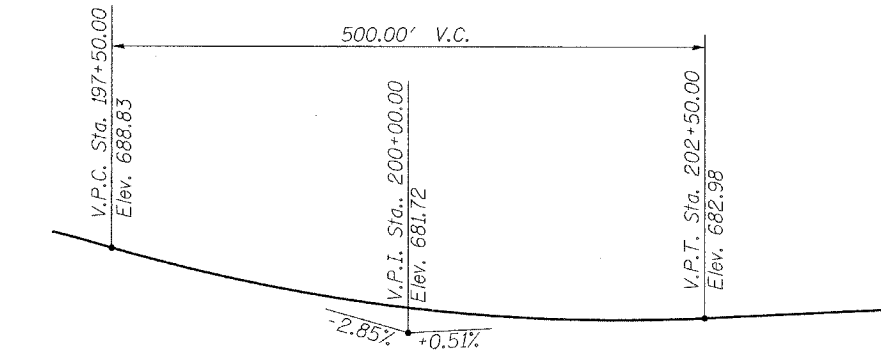
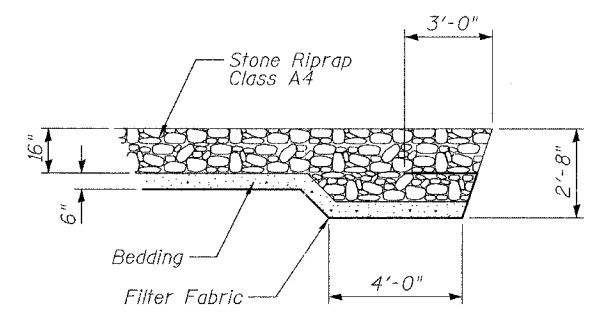
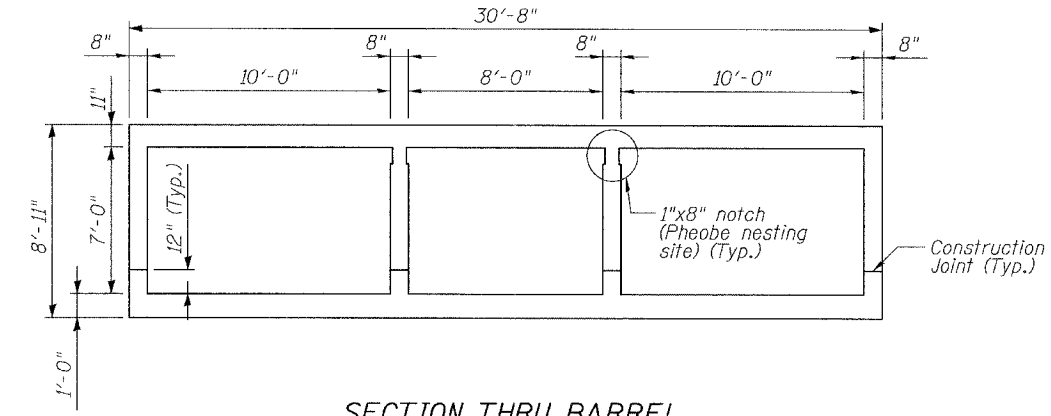
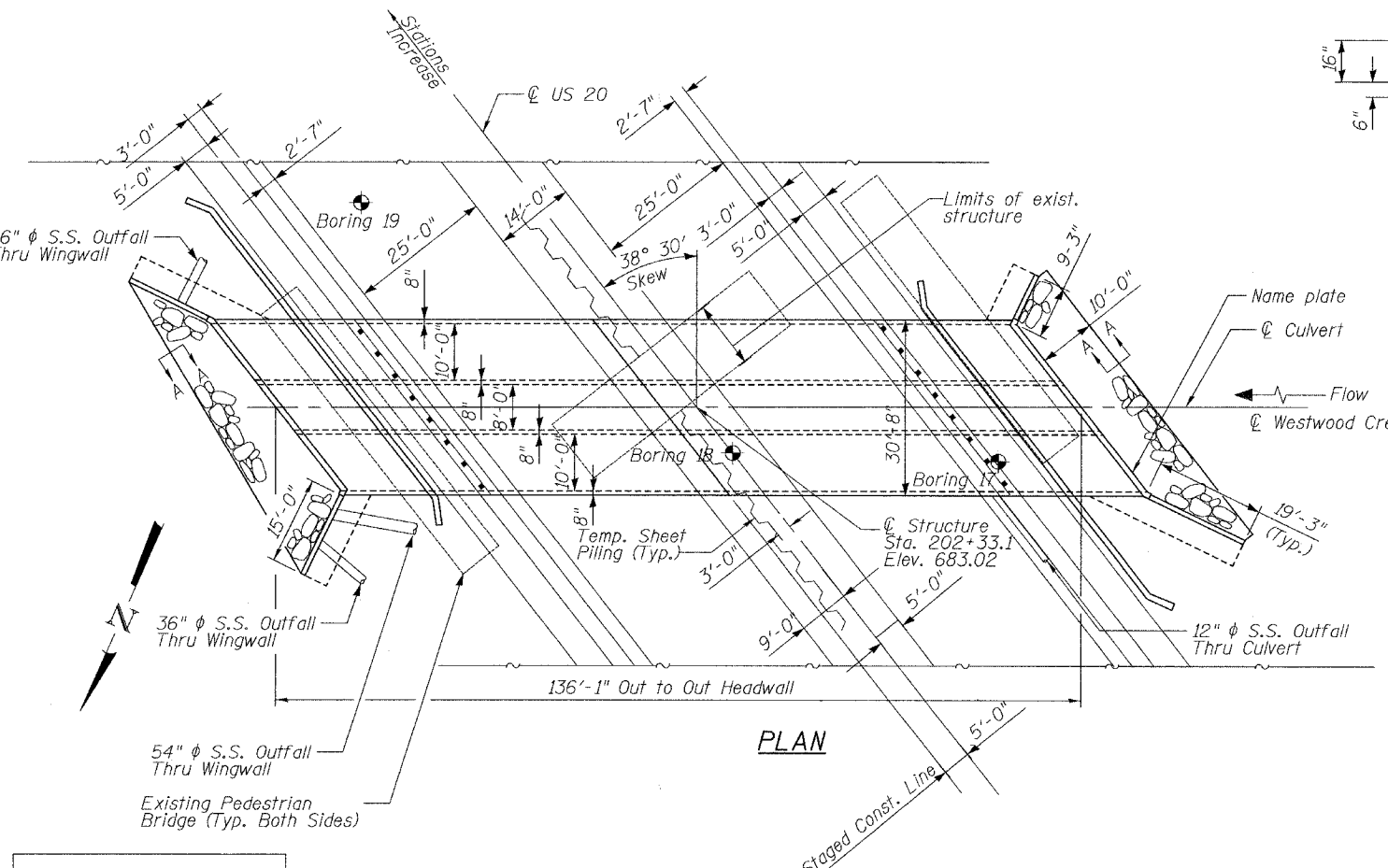
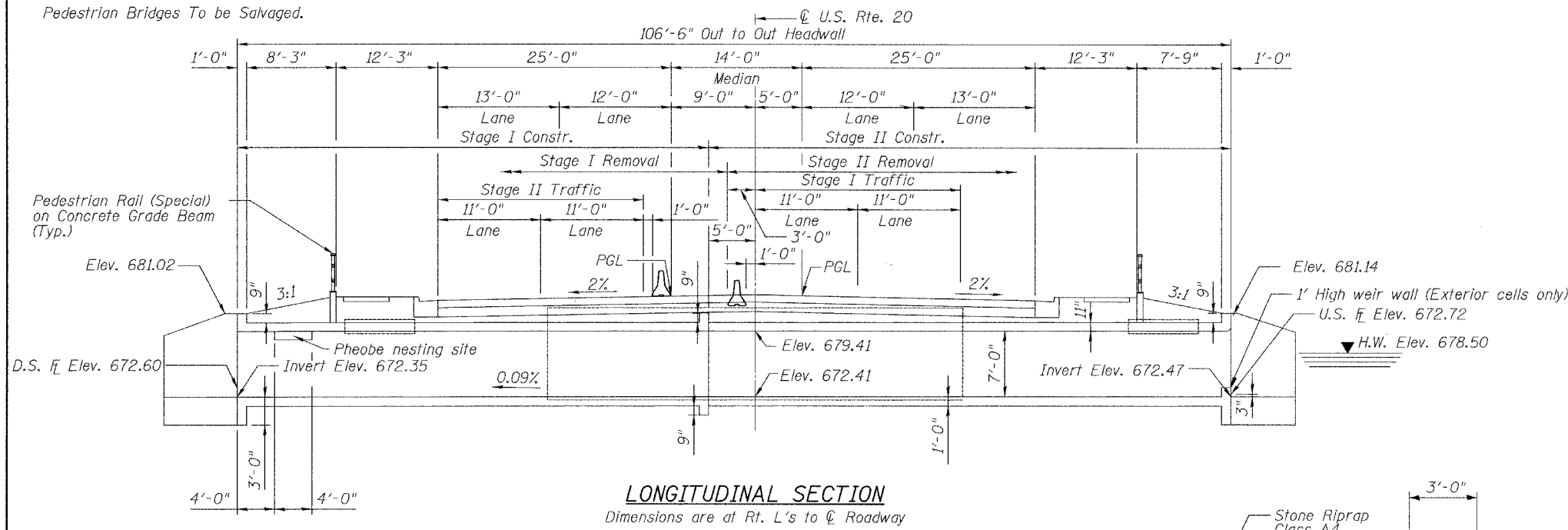
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

| | | | | |
|-----------------------|----------|------------------|--------------------|-------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET |
| F.A.U. Rt. 3537 | 5Y-R-4 | DUPAGE | 392 | 285 |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT | CONTRACT No. 62295 | |

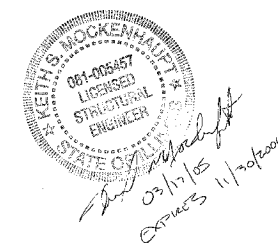
SHEET NO. 1
 10 SHEETS

Existing Structure: The existing structure is a simple span, reinforced concrete, 12' x 7' box culvert. The total structure length is 14'-0". The structure width from face-of-rail to face-of-rail is 44'-0". Contractor shall remove existing culvert and pedestrian bridges to construct new culvert. Traffic to be maintained utilizing stage construction.

Pedestrian Bridges To be Salvaged.



APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
 R. E. Anderson
 ENGINEER OF STRUCTURES



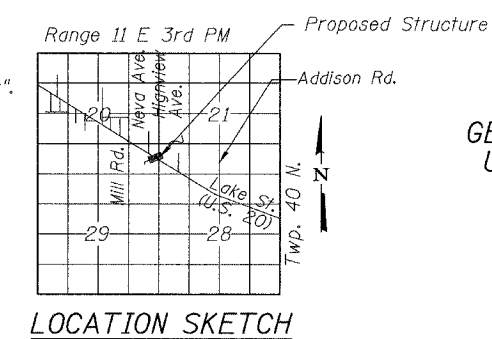
WATERWAY INFORMATION

Drainage Area = 4.2 Sq. Mi. Low Grade Elev. 681.80 @ Sta. 202+00

| Flood | Freq. Yr. | Q C.F.S. | Opening Sq. Ft. | | Head - Ft. | | Headwater El. | | |
|-------------|-----------|----------|-----------------|--------|---------------|-------|---------------|--------|--------|
| | | | Exist. | Prop. | H.W.E. Exist. | Prop. | Exist. | Prop. | |
| Design | 10 | 236 | 68.50 | 117.20 | 677.60 | 0.20 | 0.10 | 677.80 | 677.70 |
| Base | 50 | 343 | 81.10 | 142.40 | 678.50 | 0.40 | 0.10 | 678.90 | 678.60 |
| Overtopping | 100 | 389 | 85.30 | 150.80 | 678.80 | 0.40 | 0.10 | 679.20 | 678.90 |
| Max. Calc. | 500 | 520 | 95.10 | 170.40 | 679.50 | 0.70 | 0.20 | 680.20 | 679.70 |

LOADING HS20-44
 Allow 50#/sq. ft. for future wearing surface.
DESIGN SPECIFICATIONS
 2002 AASHTO "Standard Specifications for Highway Bridges".

DESIGN STRESSES
 FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 Max Soil Pressure Under Footing = 2400 psf



GENERAL PLAN AND ELEVATION
 US ROUTE 20 (LAKE STREET)
 OVER WESTWOOD CREEK
 F.A.U. Rt. 3537 SEC 5Y-R-4
 DuPAGE COUNTY
 STATION 202+33.1
 STRUCTURE NO. 022-0175

| | | |
|----------|---|--------|
| DESIGNED | - | K.S.M. |
| CHECKED | - | R.S.R. |
| DRAWN | - | J.A.V. |
| CHECKED | - | K.S.M. |



11-11-2004