

**TYPICAL SECTION NOTES**

- 1 SEE PLANS FOR LOCATIONS TO BE REMOVED AND REPLACED.
- 2 TIE BARS THAT ARE PLACED IN CONCRETE SHALL BE 30" LONG AT 30" CENTERS. TIE BARS THAT ARE DRILLED AND GROUTED SHALL BE 24" LONG AT 24" CENTERS.

**PAVING LEGEND**

- 1 EXISTING P.C.C. PAVEMENT, 7 1/2"
- 2 EXISTING COMBINATION CONCRETE CURB AND GUTTER
- 3 EXISTING CONCRETE CURB (DOWELED)
- 4 EXISTING HOT-MIX ASPHALT SURFACE, 1 3/4"
- 5 EXISTING P.C.C. SIDEWALK, 4"
- 6 EXISTING P.C.C. PAVEMENT WIDENING, 9"
- 7 EXISTING P.C.C. PAVEMENT WIDENING, 8"
- 8 PROPOSED HMA SURFACE REMOVAL, 1-3/4"
- 9 PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- 10 PROPOSED AGGREGATE (PRIME COAT)
- 11 PROPOSED LEVELING BINDER (MACHINE METHOD) (1 1/2")
- 12 PROPOSED HMA SURFACE COURSE (1 1/2")
- 13 PROPOSED P.C.C. SIDEWALK, 4"
- 14 PROPOSED P.C.C. SURFACE REMOVAL - BUTT JOINT
- 15 PROPOSED AGGREGATE SURFACE COURSE, TYPE B (WEDGE)
- 16 PROPOSED HMA SURFACE REMOVAL - BUTT JOINT
- 17 PROPOSED H-E-S P.C.C. BASE COURSE WIDENING 8"
- 18 PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL)
- 19 PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A 4"
- 20 PROPOSED 1/2" WIDE EXPANSION JOINT
- 21 PROPOSED INCIDENTAL HMA SURFACING (8")
- 22 PROPOSED CONCRETE CURB, TYPE B
- 23 No. 6 TIE BARS SEE NOTE 2

**STRUCTURAL DESIGN DATA**

MAIN STREET - PHASE 2

PAVEMENT DESIGN: MODIFIED AASHTO DESIGN FOR OVERLAYS ON EXISTING RIGID / COMPOSITE PAVEMENTS

CLASS OF ROAD: CLASS II  
 DESIGN PERIOD: 20 YEARS

TRAFFIC DATA: 2013 ADT=7,140  
 2023 ADT=7,890 (SDT)  
 2033 ADT=8,710

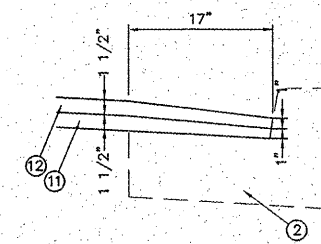
STRUCTURAL DESIGN TRAFFIC: PV (94%) = 7,417  
 SU (3%) = 237  
 MU (3%) = 237

TRAFFIC FACTOR: 1.68  
 IMMEDIATE BEARING: IBV = 10  
 STRUCTURAL NUMBER: SNc = 3.15

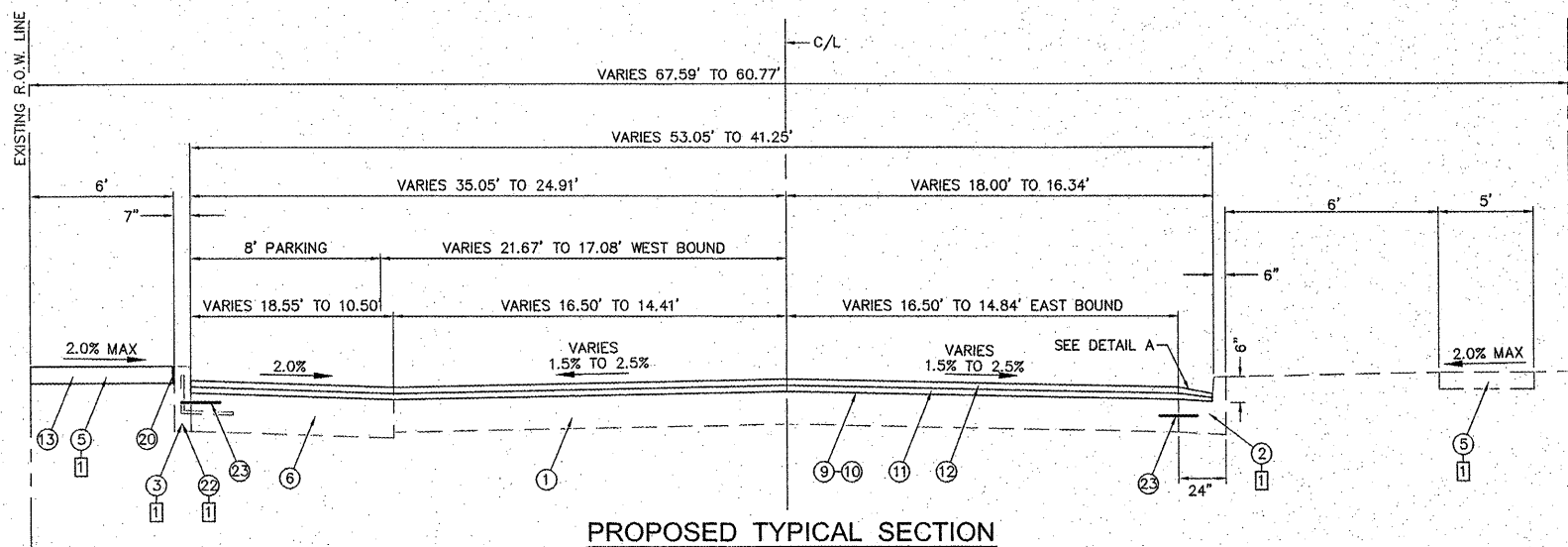
HMA OVERLAY THICKNESS REQUIRED:  $D_o = 3.0"$

PROPOSED OVERLAY: HMA LEVELING BINDER = 1 1/2"  
 HMA SURFACE = 1 1/2"  
 TOTAL HMA = 3"

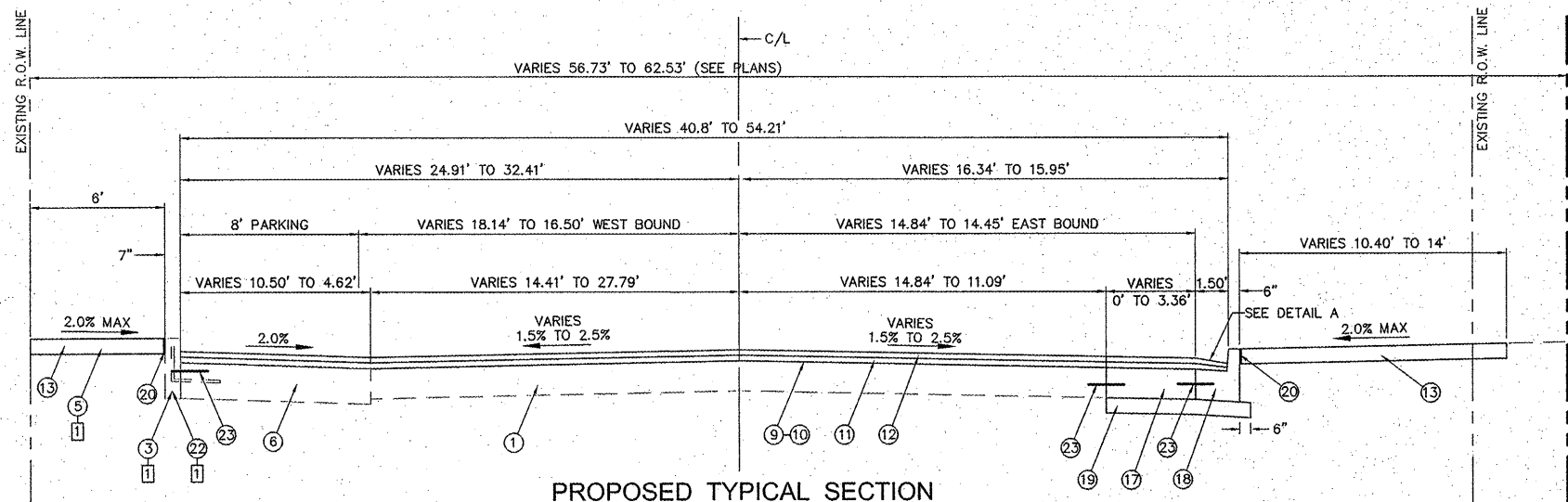
MIX DESIGNS			
MIXTURE USE	SURFACE	LEVEL BINDER	INCIDENTAL
AC/PG	PG 64-22	PG 64-22	PG 64-22
MAX RAP %			
DESIGN AIR VOIDS	4% @ N <sub>des</sub> = 70	4% @ N <sub>des</sub> = 70	4% @ N <sub>des</sub> = 70
MIX COMPOSITION (GRADATION MIXTURE)	IL - 9.5 OR IL12.5	IL - 9.5	IL - 9.5 OR IL 12.5
FRICTION AGG	MIX D	MIX C	MIX D
* SEE SPECIAL PROVISIONS			



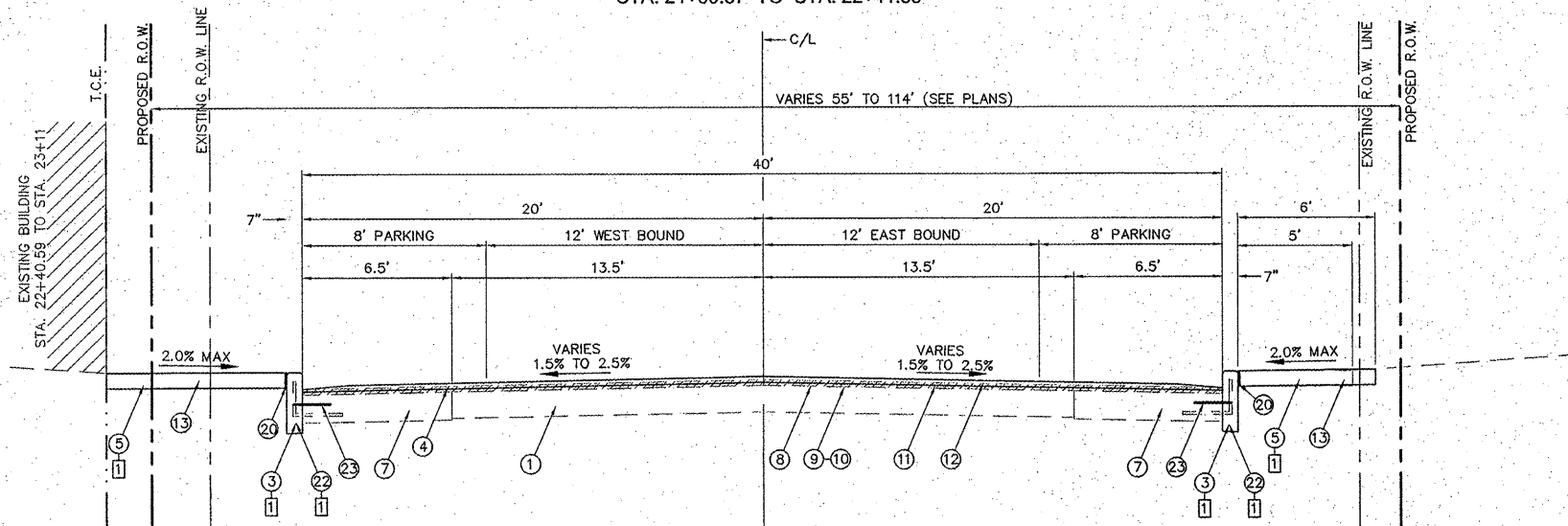
DETAIL A



PROPOSED TYPICAL SECTION  
 MAIN ST.  
 STA. 20+99.18 TO STA. 21+60.37



PROPOSED TYPICAL SECTION  
 MAIN ST.  
 STA. 21+60.37 TO STA. 22+41.85



PROPOSED TYPICAL SECTION  
 MAIN ST.  
 STA. 22+41.85 TO STA. 24+44.02

REVISIONS

**SMS ENGINEERS**  
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 DESIGN FIRM # 181-000932

VILLAGE OF EAST ALTON, ILLINOIS  
 SECTION 08-00045-00-PV  
 MAIN ST. - PHASE 2  
 PROPOSED TYPICAL SECTIONS

DWG. NO.  
 EA MAIN ST. PHAS 2 TYPICAL.DWG  
 REF. BK. PG.  
 JOB NO. 227832.1  
 DSN. BY: DEG  
 DWN. BY: CAD  
 CHK. BY: DEG  
 DATE: DEC., 2011

SCALE: NO SCALE