COMPOUND CURVE - FACE OF CURB

CIRCULAR CURVE W1

CENTER POINT =	N.481.92, E.1841.54
Δ	48°41'24"
D. OF CUR. =	224°10'54.5"
TANGENT =	11.31'
LEN. CURVE =	21.25'
RADIUS =	25.00'
P.C. COORDINATES. =	N.485.35, E.1872.78
P.T. COORDINATES =	N.502.74, E.1883.77

OFFSET 1 = 8.3'

OFFSET 2 = 17.8'

CIRCULAR CURVE W2

CENTER POINT =	N.445.19, E.1921.76
Δ	42°03'25"
D. OF CUR. =	83°02'14.5"
TANGENT =	26.53'
LEN. CURVE =	50.65'
RADIUS =	69.00'
P.C. COORDINATES. =	N.502.74, E.1883.77
P.T. COORDINATES =	N.513.40, E.1932.14

3-CENTERED CURVE - FACE OF CURB

CIRCULAR CURVE W3

CENTER POINT =	N.658.45, E.1966.19
Δ	9°22'43.5"
D. OF CUR. =	45°50'12"
TANGENT =	10.25'
LEN. CURVE =	20.46'
RADIUS =	125.00'
P.C. COORDINATES. =	N.606.54, E.1884.93
P.T. COORDINATES =	N.586.21, E.1888.02

OFFSET 3 = 6.0'

CIRCULAR CURVE W4

CENTER POINT =	N.586.80, E.1934.05
Δ	65°14'04.5"
D. OF CUR. =	124°33'22"
TANGENT =	29.44'
LEN. CURVE =	52.37'
RADIUS =	46.00'
P.C. COORDINATES. =	N.586.21, E.1888.02
P.T. COORDINATES =	N.544.74, E.1915.28

OFFSET 5 = 2.0'

CIRCULAR CURVE W5

CENTER POINT =	N.587.80, E.2013.01
Δ	15°23'07"
D. OF CUR. =	45°50'12"
TANGENT =	16.88'
LEN. CURVE =	33.57'
RADIUS =	125.00'
P.C. COORDINATES. =	N.544.74, E.1915.28
P.T. COORDINATES =	N.535.38, E.1947.35

STA. 54+00.00 N.471.23, E.1857.52

CIRCULAR CURVE #1

P.I. STA. =	STA 54+33.21
Δ	3°47'56"
D. OF CUR. =	08°11'06"
TANGENT =	23.21'
LEN. CURVE =	46.41'
RADIUS =	700.00'
P.C. STA. =	54+10.00
P.T. STA =	54+56.41

STA. 60+00.61 N. 511.06, E.1869.92

CIRCULAR CURVE #2

P.I. STA. =	STA 54+78.52
Δ	3°37'05"
D. OF CUR. =	08°11'06"
TANGENT =	22.11'
LEN. CURVE =	44.20'
RADIUS =	700.00'
P.C. STA. =	54+56.41
P.T. STA =	60+00.61

STA. 67+96.54 N.1357.93, E.1989.62

CIRCULAR CURVE #3

P.I. STA. =	STA 68+24.94
Δ	4°38'48"
D. OF CUR. =	08°11'06"
TANGENT =	28.40'
LEN. CURVE =	56.71'
RADIUS =	700.00'
P.C. STA. =	67+96.54
P.T. STA =	68+53.31

STA. 70+00.00 N.1558.38, E.2025.11

CIRCULAR CURVE #4

P.I. STA. =	STA 68+80.43
Δ	4°26'14"
D. OF CUR. =	08°11'06"
TANGENT =	27.12'
LEN. CURVE =	54.21'
RADIUS =	700.00'
P.C. STA. =	68+53.31
P.T. STA =	64+07.34

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. SEE THE PLANS FOR CONTACT INFORMATION OF THE UTILITIES LOCATED WITHIN THE PROJECT SITE.
2. ALL UTILITY FACILITIES THAT REQUIRE RELOCATION WITHIN STATE OR CITY R.O.W. SHALL BE RELOCATED BY THE UTILITY COMPANY UNLESS OTHERWISE SHOWN ON THE PLANS.
3. UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.
4. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF ALL UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).
5. ANY DAMAGE TO THE UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE, INCLUDING TEMPORARY REPAIRS WHICH MAY BE REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS.
6. ALL UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
7. IN ADDITION TO FIELD SURVEYS AND AERIAL MAPS, PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING FACILITIES HAVE BEEN TAKEN FROM AS-BUILT EXISTING PLANS, PREVIOUS SURVEYS AND FIELD SURVEYS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. MINOR VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
8. ANY REFERENCE WITHIN THESE PLANS TO A STANDARD SHALL BE INTERPRETED TO MEAN THE EDITION INDICATED BY THE SUB-NUMBER LISTED ON THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
9. ACCESS TO ENTRANCES SHALL BE MAINTAINED. A QUANTITY HAS BEEN ESTABLISHED FOR "AGGREGATE FOR TEMPORARY ACCESS", SEE SCHEDULE OF QUANTITIES.
10. WHERE PROPOSED CONSTRUCTION ABUTS EXISTING APPURTENANCES, A SAW CUT SHALL BE MADE TO ACHIEVE A NEAT BUTT JOINT. ALL SAWED JOINTS FOR REMOVAL AND BUTT JOINTS SHALL BE CONSIDERED INCLUDED IN THE ITEM BEING REMOVED OR CONSTRUCTED.
11. MILLING SHALL BE DONE IS SUCH A MANNER AS TO ASSURE NO TEMPORARY RAMPS ARE NEEDED OTHER THAN AT SIDE ROADS AND ENDS OF IMPROVEMENT.
12. SURVEY CONTROL POINTS, INCLUDING COORDINATES AND ELEVATIONS, ARE SHOWN ON THE GEOMETRIC SHEETS OF THESE PLANS. THE CONTRACTOR SHALL PROTECT, RE-ESTABLISH, OR MOVE THE CONTROL POINTS AS NEEDED DURING CONSTRUCTION, AS SET FORTH IN SECTION 105.09 OF THE SPECIFICATIONS.
13. PUBLIC & PRIVATELY OWNED UTILITY STRUCTURES SHALL BE ADJUSTED TO FINISH GRADE BY THE CONTRACTOR.
14. QUANTITIES HAVE BEEN PROVIDED FOR "TEMPORARY DITCH CHECKS", "PERIMETER EROSION BARRIER" AND "INLET AND PIPE PROTECTION", SEE SCHEDULE OF QUANTITIES. THIS WORK SHALL BE DONE ACCORDING TO THE APPLICABLE STANDARDS AND SPECIFICATIONS AND AT THE DIRECTION OF THE ENGINEER.

LEGEND

SURVEY MONUMENTS

- FOUND IRON PIN

SURFACE FEATURES

- POLE - LIGHT
- ELEC PEDESTAL - ELECTRICAL
- MANHOLE - SANITARY
- CATCH BASIN
- CULVERT
- MANHOLE - STORM
- TELE PEDESTAL - TELEPHONE
- FIRE HYDRANT
- VALVE - WATER
- DECIDUOUS TREE
- SIGN

LINE TYPES

- CENTER LINE
- LIMITS OF CONSTRUCTION
- PROPERTY LINE
- Ele — ELECTRICAL LINE (UNDERGROUND)
- Fo — FIBER OPTIC LINE
- Gas — GAS LINE
- San — SANITARY SEWER
- Stm — STORM SEWER
- STM — PROPOSED STORM SEWER
- Tel — TELEPHONE LINE
- Wtr — WATER LINE
- 650 — MINOR CONTOUR
- 655 — MAJOR CONTOUR

SURFACE TYPES

- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL/ROCK SURFACE
- OIL AND CHIP SURFACE
- PROPOSED CONCRETE PAVEMENT

STRUCTURAL DESIGN INFORMATION - RIGID PAVEMENT

STRUCTURAL DESIGN TRAFFIC: 1000 YEAR 2020

PV= 93% SU= 5% MU= 2%

TRAFFIC FACTOR: ACTUAL TF= 0.146 (13,280 lb) USE MIN T.F. = 0.5

SUBGRADE: FAIR

CONSTRUCT: PCCP 6.5" (JOINTED) ON RECYCLED SUB-BASE NON-DOWELED JOINTS @ 12.5' MAX. SPACING

MONUMENTS

ID	NORTHING	EASTING	ELEVATION	STATION	DESCRIPTION
BM#1	1430.53	1981.29	647.01	68+67.23.6' LT	"M" In Mueller
PC#1	1427.17	2024.41	-	68+70.6 19.5' RT	Found Iron Pin
PC#2	1497.86	1883.12	-	54+30.1 21.2' RT	Found Iron Pin
PC#3	1130.07	1979.11	-	65+69.7 20.5' RT	Found Iron Pin
PM#1	537.24	1970.35	688.66	54+82.8 101.4' RT	Found Brass Disk NGS PID KB0761

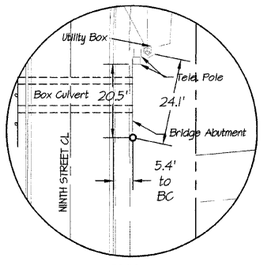
ABBREVIATIONS: BM = BENCHMARK PC = PROPERTY CORNER TVP = TRAVERSE POINT PM = PERMANENT MARKER R.O.W.= RIGHT-OF-WAY MARKER

SUMMARY OF QUANTITIES

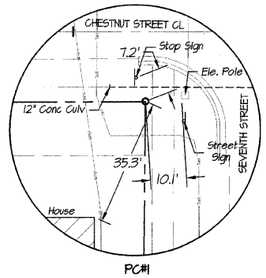
CONSTRUCTION TYPE CODE: J000-2A

CODE NO.	ITEM	UNIT	QUANTITY
* 20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	330
* 20400800	FURNISHED EXCAVATION	CU YD	300
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	3,146
25000100	SEEDING, CLASS 1	ACRE	0.7
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	63
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	63
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	63
25100105	MULCH, METHOD 1	ACRE	0.7
* 28000305	TEMPORARY DITCH CHECKS	FOOT	40
28000400	PERIMETER EROSION BARRIER	FOOT	511
28000500	INLET AND PIPE PROTECTION	EACH	13
* 31103000	SUB-BASE GRANULAR MATERIAL (SPECIAL)	SQ YD	3,640
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	18
40201000	AGGREGRATE FOR TEMPORARY ACCESS	TON	100
42000111	PORTLAND CEMENT CONCRETE PAVEMENT 6 1/2" (JOINTED)	SQ YD	3,328
42300100	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 5 INCH	SQ YD	302
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	647
42400800	DETECTABLE WARNINGS	SQ FT	108
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	247
44000600	SIDEWALK REMOVAL	SQ FT	416
48101200	AGGREGATE SHOULDERS, TYPE B	TON	97
50105220	PIPE CULVERT REMOVAL	FOOT	281
542D0217	PIPE CULVERTS, CLASS D, TYPE 1, 12"	FOOT	122
54213672	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 27"	EACH	1
54215547	METAL END SECTIONS 12"	EACH	2
550A0050	STORM SEWERS, CLASS A, TYPE 1, 12"	FOOT	212
550A0070	STORM SEWERS, CLASS A, TYPE 1, 15"	FOOT	100
550A0090	STORM SEWERS, CLASS A, TYPE 1, 18"	FOOT	100
550A0120	STORM SEWERS, CLASS A, TYPE 1, 24"	FOOT	170
550A0130	STORM SEWERS, CLASS A, TYPE 1, 27"	FOOT	36
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1
60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	8
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	156
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	154
67100100	MOBILIZATION	L SUM	1
* 70103700	TRAFFIC CONTROL COMPLETE	L SUM	1
72000100	SIGN PANEL - TYPE 1	SQ FT	25
72900210	METAL POST - TYPE B	EACH	4
△78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	12
△78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2,205
△78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	240
△78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	53

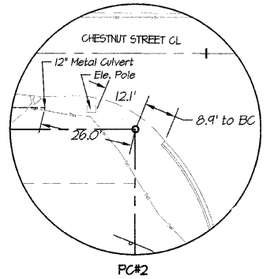
* SPECIAL PROVISION △ SPECIALITY ITEMS



PM#1



PC#1



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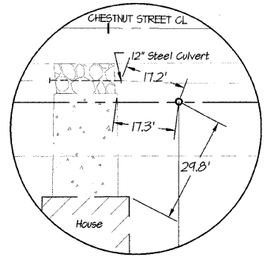

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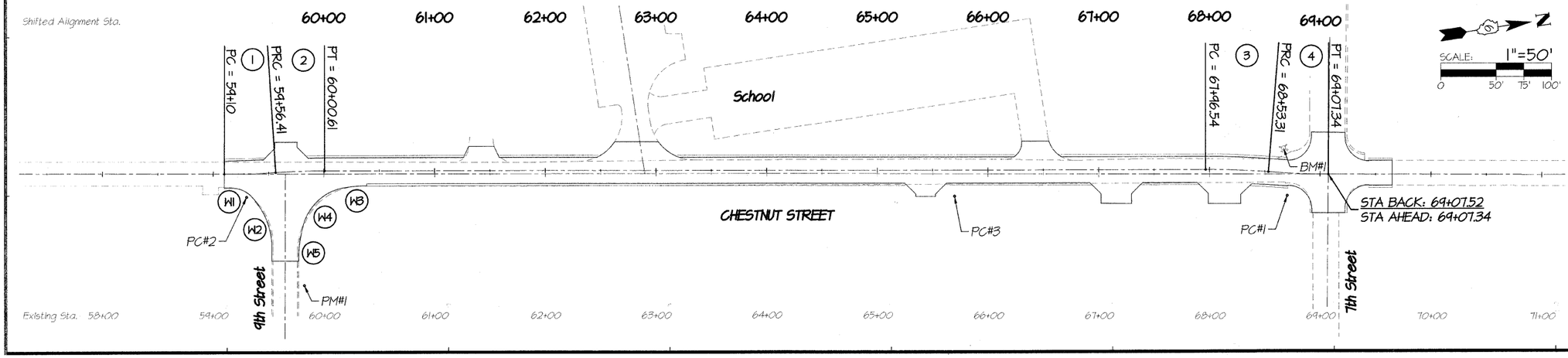

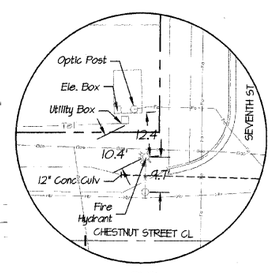

BM#1

JULIE TOLL FREE 1-800-892-0123

ROUTE NO.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
F.A.U. 7944	96-00046-00-PV	PANA	17	3
FED. ROAD DIST NO.	.	ILLINOIS	PROJECT	ARA-M-5053(006)

JANE K. LYNCH 52612 PROFESSIONAL ENGINEER OF ILLINOIS
LICENSE EXPIRES 11/30/2011
STAMP

REVISIONS

NO.	DATE	APPR.	DESCRIPTION
1	01.19.10	AKL	PER IDOT COMMENTS

SCALE 1" = 20'
DRAWN BY AKL DATE 2009 AUG 29
CHECKED BY AKL DATE 2009 AUG 29

PROJECT
CHESTNUT STREET IMPROVEMENTS
FROM 7th STREET TO 9th STREET
PANA, ILLINOIS
F.A.U. ROUTE 7944 - SECTION 96-00046-00-PV
CONT. TIES, GEOMETRICS & SUMMARY OF QUANTITIES

ENGINEERS, INC.
CONSULTING ENGINEERS
2180 N. MARTIN LUTHER KING, JR. DRIVE DECATUR, ILLINOIS 62526
(217) 877-2100 * FAX (217) 877-4816
PROFESSIONAL DESIGN FIRM #184-001101 EXPIRES: 04/30/2011

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PROJECT NO. 911584

DATE STAMP 2009 NOV 30

SHEET NUMBER 3/17

Thu, 21 Jan 2010 - 10:38am Last Edited By: Reid Torbeck Drawing Name: P:\2009\911584 Para\DWG\911584-Cover Typical.dwg