

# HERITAGE PLACE IN HISTORIC NAPERVILLE

140 N WRIGHT STREET  
 NAPERVILLE, IL 60540  
 JOB NO. W20052.00  
 JULY 15, 2020  
 PRELIMINARY ENGINEERING

**SITE BENCHMARKS**  
 CITY OF NAPERVILLE SURVEY MONUMENT  
 STATION NUMBER: 1007  
 BERNSTEIN 3D TOP SECURITY MONUMENT LOCATED AT THE SOUTH SIDE OF THE "T" INTERSECTION OF CHARLES STREET AND CHESHIRE LANE.  
 ELEV.: 733.69 (NAVD 88)

SITE BENCHMARK (BM) #1  
 SOUTHWEST BONNET BOLT ON A FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF SCHOOL STREET AND WRIGHT STREET.  
 ELEV: 720.30 (NAVD 88)

SITE BENCHMARK (BM) #2  
 SOUTHWEST BONNET BOLT ON A FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF SCHOOL STREET AND COLUMBIA STREET.  
 ELEV: 724.89 (NAVD 88)

SITE BENCHMARK (BM) #3  
 NORTHWEST BONNET BOLT ON A FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF COLUMBIA STREET AND FRANKLIN AVENUE.  
 ELEV: 724.37 (NAVD 88)

SITE BENCHMARK (BM) #4  
 SOUTHWEST BONNET BOLT ON A FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF FRANKLIN AVENUE AND WRIGHT STREET.  
 ELEV: 719.96 (NAVD 88)



**City of Naperville  
 Survey Monument**

City of Naperville  
 Transportation, Engineering,  
 and Development  
 (TED) Business Group  
 400 S. Eagle Street  
 Naperville, IL 60540  
 Phone: 630-305-7001

**Station No.:** 705 **Date Established:** 07/12/1995  
**Order of Accuracy:** Horizontal 1st Vertical 4th **Date Last Checked:** 11/15/2005  
**Station Elevation:** 734.64 (Ft) **Naperville Field Checked:** 10/09/2008  
**Note:** Any and all parties utilizing the vertical elevation listed above should always check at least one other monument.

**Horizontal Datum:** NAD83 (2007) Illinois State Plane Transverse Mercator, East Zone  
**Vertical Datum:** NAVD 1988 Adjustment  
**North:** 1,864,573.65 (Ft) **East:** 1,037,790.39 (Ft) **NOTE: The coordinates shown are Illinois State Plane grid not ground.**  
**Latitude:** 41° 47' 08.64678" (N) **Longitude:** 088° 08' 13.25503" (W)

**Description:**  
 Bernstein 3D Top Security Monument. Consisting of a 9/16" Dia. Stainless Steel Datum Point On Threaded 9/16" x 4" Long Rod Totalling (8") In Length With Greased Top Security Sleeve Enclosed In Sand and 6" PVC Pipe With BMAC 6 Aluminum Access Cover.

**INDEX TO DRAWINGS**

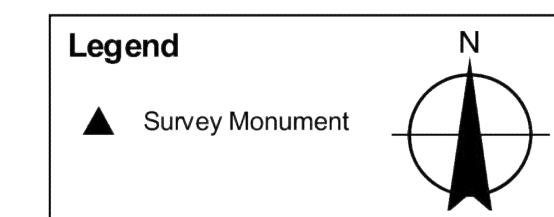
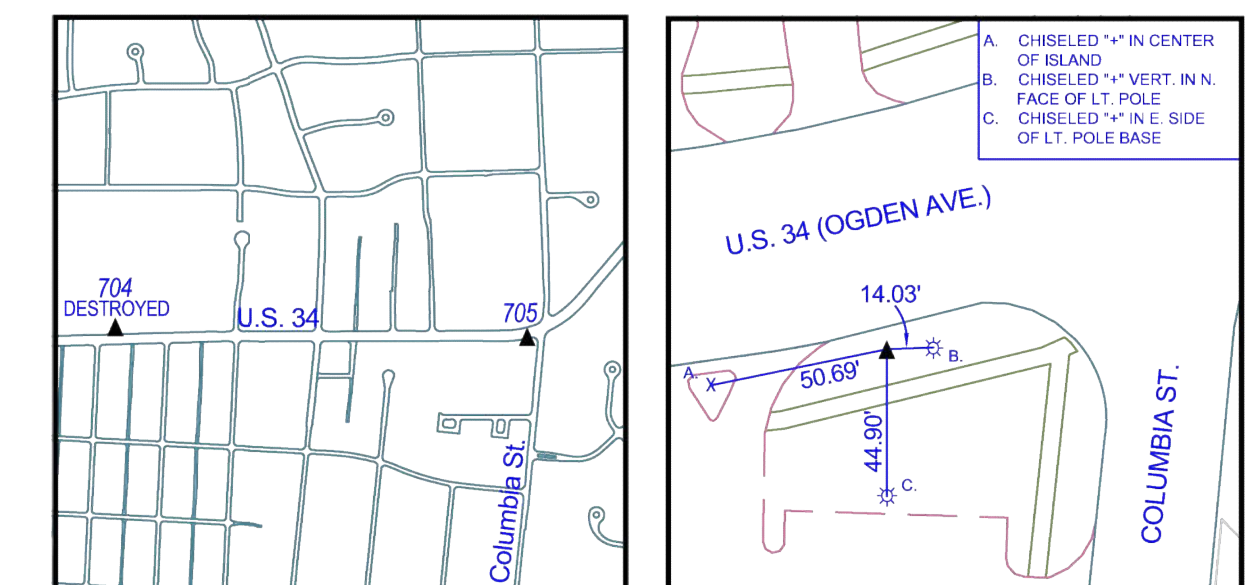
- SHEET 1 COVER
- SHEET 2 PLAT OF SURVEY
- SHEET 3 EXISTING CONDITIONS PLAN
- SHEET 4 GEOMETRY PLAN
- SHEET 5 UTILITY PLAN
- SHEET 6 GRADING PLAN
- SHEET 7 ADS DETAILS
- SHEET 8 ADS DETAILS
- SHEET 9 DETAILS

**PREPARED FOR:**

RAM WEST CAPITAL LLC  
 IN PARTNERSHIP WITH DJK CUSTOM HOMES  
 532 S WEBSTER STREET  
 NAPERVILLE, IL 60540  
 PH:(630) 369-1953



**LOCATION MAP**



For further data information please consult the National Geodetic Survey: [www.ngs.noaa.gov](http://www.ngs.noaa.gov)

It's smart It's free It's the law

Call Before You Dig

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**Call before you dig**  
**800.892.0123**



**ENGINEERING  
 RESOURCE ASSOCIATES**

2416 GALEN DRIVE  
 CHAMPAIGN, ILLINOIS 61821  
 PHONE (217) 351-6268  
 FAX (217) 355-1902

35701 WEST AVENUE, SUITE 150  
 WARRENVILLE, ILLINOIS 60555  
 PHONE (630) 393-3060  
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10 S. RIVERSIDE PLAZA, SUITE 875  
 CHICAGO, ILLINOIS 60606  
 PHONE (312) 474-7841  
 FAX (312) 474-6099

Jon P. Green, P.E.  
 IL. P.E. NO. 062-052108  
 Expires November 30, 2021

**ERA JOB NO.: W20052.00**  
**PLAN SET REVISED: OCTOBER 13, 2020**  
**PLAN SET REVISED: OCTOBER 7, 2020**  
**PLAN SET REVISED: SEPTEMBER 24, 2020**  
**PLAN SET REVISED: SEPTEMBER 8, 2020**  
**PLAN SET REVISED: AUGUST 14, 2020**  
**ORIGINAL SUBMITTAL: JULY 15, 2020**

# PLAT OF SURVEY

BLOCK 2 IN KROEHLER'S ADDITION TO NAPERVILLE, IN SECTION 18, TOWNSHIP 38 NORTH, RANGE 10, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED MAY 14, 1906 AS DOCUMENT 87553, IN DUPAGE COUNTY, ILLINOIS.

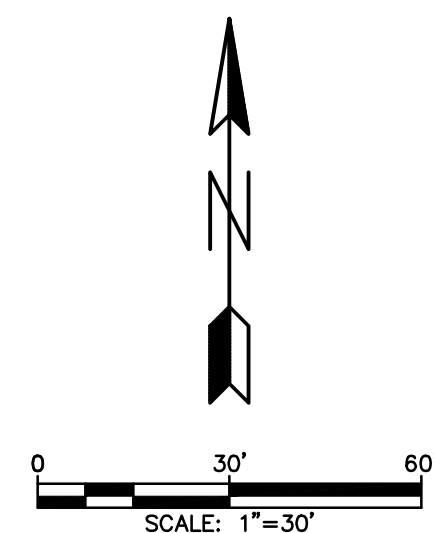
ALSO DESCRIBED AS

PARCEL 1:

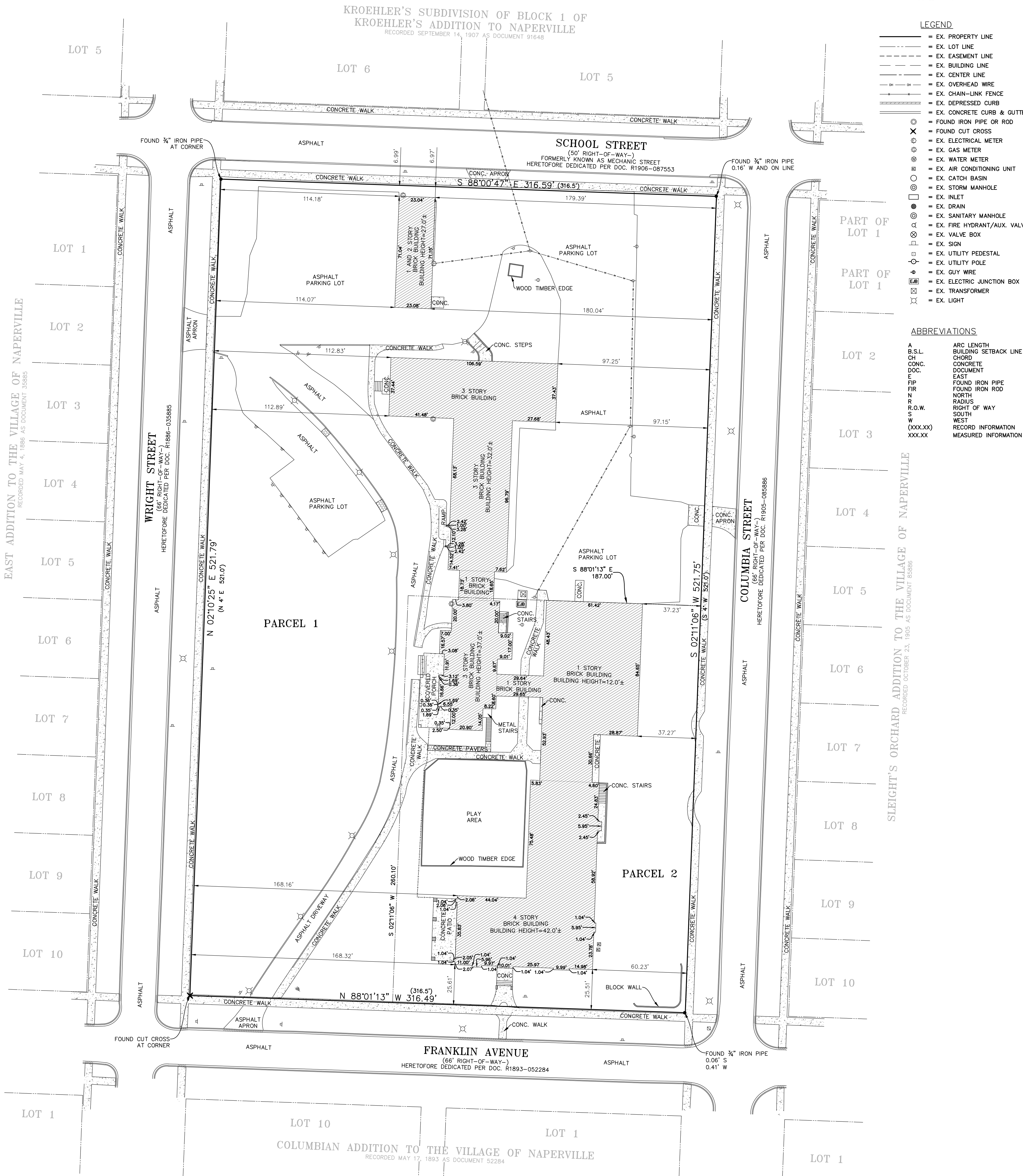
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PARCEL 2:

THE SOUTH 260.10 FEET OF THE EAST 187.00 FEET AS MEASURED ON THE EAST AND SOUTH LINES, IN BLOCK 2 IN KROEHLER'S ADDITION TO NAPERVILLE, IN THE SOUTH QUARTER OF SECTION 18, TOWNSHIP 38 NORTH, RANGE 10, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED MAY 14, 1906 AS DOCUMENT 87553, IN DUPAGE COUNTY, ILLINOIS.



KROEHLER'S SUBDIVISION OF BLOCK 1 OF  
KROEHLER'S ADDITION TO NAPERVILLE  
RECORDED SEPTEMBER 14, 1907 AS DOCUMENT 91648



### LEGEND

- = EX. PROPERTY LINE
- - - = EX. LOT LINE
- · - · - = EX. EASEMENT LINE
- · - · - · = EX. BUILDING LINE
- · - · - · - = EX. CENTER LINE
- · — · — · = EX. OVERHEAD WIRE
- · — · — · — · = EX. CHAIN-LINK FENCE
- · — · — · — · — · = EX. DEPRESSED CURB
- · — · — · — · — · — · = EX. CONCRETE CURB & GUTTER
- = FOUND IRON PIPE OR ROD
- ⊗ = FOUND CUT CROSS
- ⊙ = EX. ELECTRICAL METER
- ⊕ = EX. GAS METER
- ⊖ = EX. WATER METER
- ⊗ = EX. AIR CONDITIONING UNIT
- ⊙ = EX. CATCH BASIN
- ⊙ = EX. STORM MANHOLE
- ⊙ = EX. INLET
- ⊙ = EX. DRAIN
- ⊙ = EX. SANITARY MANHOLE
- ⊙ = EX. FIRE HYDRANT/AUX. VALVE
- ⊙ = EX. VALVE BOX
- ⊙ = EX. SIGN
- ⊙ = EX. UTILITY PEDESTAL
- ⊙ = EX. UTILITY POLE
- ⊙ = EX. GUY WIRE
- ⊙ = EX. ELECTRIC JUNCTION BOX
- ⊙ = EX. TRANSFORMER
- ⊙ = EX. LIGHT

### ABBREVIATIONS

- |          |                       |
|----------|-----------------------|
| A        | ARC LENGTH            |
| B.S.L.   | BUILDING SETBACK LINE |
| CH       | CHORD                 |
| CONC.    | CONCRETE              |
| DOC.     | DOCUMENT              |
| E        | EAST                  |
| FIP      | FOUND IRON PIPE       |
| FR       | FOUND IRON ROD        |
| N        | NORTH                 |
| R.O.W.   | RIGHT OF WAY          |
| S        | SOUTH                 |
| W        | WEST                  |
| (XXX.XX) | RECORD INFORMATION    |
| XXX.XX   | MEASURED INFORMATION  |

SLEIGHT'S ORCHARD ADDITION TO THE VILLAGE OF NAPERVILLE  
RECORDED OCTOBER 23, 1905 AS DOCUMENT 65886

EAST ADDITION TO THE VILLAGE OF NAPERVILLE  
RECORDED MAY 4, 1886 AS DOCUMENT 35885

COLUMBIAN ADDITION TO THE VILLAGE OF NAPERVILLE  
RECORDED MAY 17, 1893 AS DOCUMENT 52284

### GENERAL NOTES

1. THE BEARINGS SHOWN ON THIS PLAT ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM - EAST ZONE (NAD 83).
2. CHECK LEGAL DESCRIPTION WITH DEED OR TITLE POLICY AND REPORT ANY DISCREPANCY IMMEDIATELY. BUILDING LINES AND EASEMENTS, IF ANY, SHOWN HEREON ARE AS SHOWN ON THE RECORDED SUBDIVISION OR AS INDICATED.
3. ALL AREAS LISTED IN THE AREA SUMMARY TABLE ARE MORE OR LESS.
4. ALL DISTANCES ARE SHOWN IN FEET AND DECIMAL PARTS THEREOF.
5. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES WHICH MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT.

### AREA SUMMARY

PARCEL 1: 116,519 SQUARE FEET (2.675 ACRES±)
PARCEL 2: 48,639 SQUARE FEET (1.117 ACRES±)
TOTAL: 165,158 SQUARE FEET (3.792 ACRES±)

\*DOCUMENT NUMBERS REVISED AUGUST 6, 2020 BY CNB

STATE OF ILLINOIS }  
COUNTY OF DUPAGE } SS

I, TIMOTHY B. MARTINEK, AN ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003782, HEREBY CERTIFY THAT I HAVE SURVEYED THE ABOVE PROPERTY AND THAT THE PLAT HERON DRAWN IS A CORRECT REPRESENTATION OF SAID SURVEY. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

GIVEN UNDER MY HAND AND SEAL THIS 6TH DAY OF AUGUST, 2020.

*Timothy B. Martinek*  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003782  
LICENSE EXPIRES NOVEMBER 30, 2020

DESIGN FIRM PROFESSIONAL LICENSE NO. 184.001186  
LICENSE EXPIRES APRIL 30, 2021  
FIELD WORK COMPLETED MAY, 8, 2020



DRAWN BY: CNB  
CHECKED BY: TBM  
APPROVED BY: TBM



35701 WEST AVENUE, SUITE 150  
WARRENVILLE, ILLINOIS 60055  
PHONE (630) 393-3060  
FAX (630) 393-2152

10 S. RIVERSIDE PLAZA, SUITE 875  
CHICAGO, ILLINOIS 60606  
PHONE (312) 474-7841  
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PHONE (217) 351-6268  
FAX (217) 355-1902

PREPARED FOR:

**RAM WEST CAPITAL, LLC  
IN PARTNERSHIP WITH  
DJK CUSTOM HOMES**

TITLE:

**PLAT OF SURVEY  
HERITAGE PLACE**

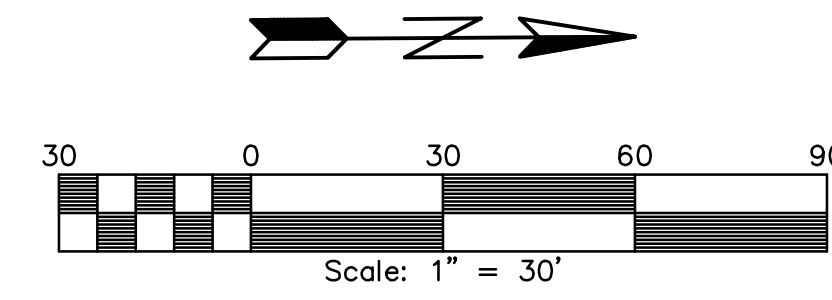
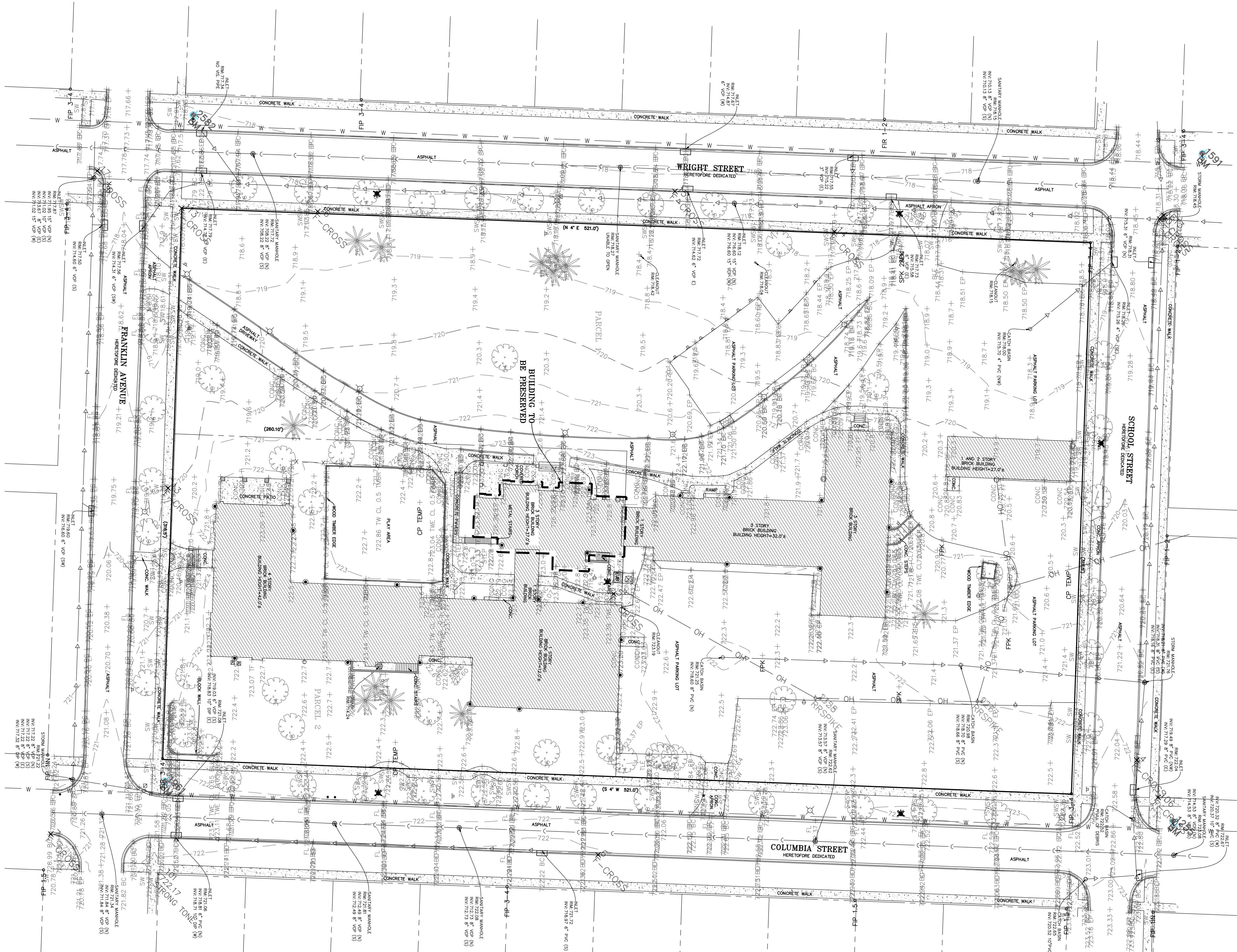
SCALE: 1"=30'  
DATE: 05-15-20  
JOB NO: W20052.A0  
SHEET 1 OF 1

**EXISTING LEGEND**

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- = EX. UTILITY PEDESTAL
- = EX. TRANSFORMER
- = EX. UTILITY POLE
- = EX. GUY WIRE
- = EX. SIGN
- = EX. DOWNSPOUT
- = EX. LIGHT
- = EX. SPOT ELEVATION
- = EX. CONIFEROUS TREE
- = EX. DECIDUOUS TREE

**ABBREVIATIONS**

- |          |                          |
|----------|--------------------------|
| A        | ARC LENGTH               |
| B.S.L.   | BUILDING SETBACK LINE    |
| CH       | CHORD                    |
| CONC.    | CONCRETE                 |
| DIP      | DUCTILE IRON PIPE        |
| DOC.     | DOCUMENT                 |
| E        | EAST                     |
| FIP      | FOUND IRON PIPE          |
| FIR      | FOUND IRON ROD           |
| INV.     | INVERT                   |
| N        | NORTH                    |
| PVC      | POLYVINYL CHLORIDE       |
| R        | RADIUS                   |
| R.C.P.   | REINFORCED CONCRETE PIPE |
| R.O.W.   | RIGHT OF WAY             |
| S        | SOUTH                    |
| T/PIPE   | TOP OF PIPE              |
| VCP      | VITREOUS CLAY PIPE       |
| W        | WEST                     |
| (XXX.XX) | RECORD INFORMATION       |
| XXXX.XX  | MEASURED INFORMATION     |



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P.I.N.: 08-18-309-002 (PARCEL 1)  
 08-18-422-001 (PARCEL 2)

**SITE BENCHMARKS**

- CITY OF NAPERVILLE SURVEY MONUMENT  
 STATION NUMBER: 1007  
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 ELEV.: 719.96 (NAVD 88)

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/14/20	KF	CITY COMMENTS	10/13/20	KF	CITY COMMENTS
9/18/20	KF	CITY COMMENTS			
9/24/20	KF	CITY COMMENTS			
10/7/20	KF	CITY COMMENTS			

DRAWN BY: KF  
 CHECKED BY: NV  
 APPROVED BY: NV



35701 WEST AVENUE, SUITE 150  
 WARRENVILLE, ILLINOIS 60055  
 PHONE (630) 393-3060  
 FAX (630) 393-2152

10 S. RIVERSIDE PLAZA, SUITE 875  
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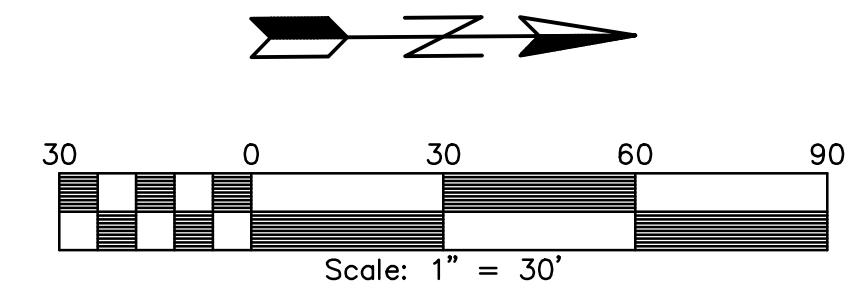
2416 GALEN DRIVE  
 CHAMPAIGN, ILLINOIS 61821  
 PHONE (217) 351-6268  
 FAX (217) 355-1902

**RAM WEST CAPITAL LLC  
 IN PARTNERSHIP WITH  
 DJK CUSTOM HOMES**

TITLE: **EXISTING CONDITIONS PLAN  
 HERITAGE PLACE  
 NAPERVILLE, ILLINOIS**

SCALE: 1"=30'  
 DATE: 07/15/2020  
 JOB NO: W20052  
 SHEET 3 of 9

PROFESSIONAL DESIGN FIRM NUMBER: 184.001186



- NOTES:**
1. ALL INTERNAL SIDEWALKS ARE 4' WIDE.
  2. ALL FRONT PORCH PATIOS ARE 11' X 5'
  3. ALL D-WAY ISLANDS ARE 4' WIDE
  4. SEE PRELIMINARY ENGINEERING PLAN FOR ALL UNDERGROUND UTILITY INFORMATION
  5. THERE WILL BE NO SEPARATE STAND ALONE REFUSE AREAS. EACH UNIT WILL HOUSE THE INDIVIDUAL REFUSE AND RECYCLE BINS IN THE GARAGES.
  6. SIDEWALK CONNECTION BETWEEN THE TWO PARKS IS REQUIRED TO BE CONSTRUCTED AS PART OF THIS PROJECT.
  7. OUTLOT B AND C SHALL BE FINE GRADED AND SEEDDED. ALL OTHER IMPROVEMENTS SHALL BE REMOVED FROM THE OUTLOTS.

ZONING DATA TABLE		
	REQUIRED	PROPOSED
ZONING	R2	R2
FRONT YARD SETBACK	25'	22'
INTERIOR SIDEYARD	6'	6'
CORNER SIDEYARD	15'	18'
REAR YARD	25'	25'
MIN LOT AREA	4,000 S.F.	4,028 S.F.
MAX. HEIGHT	3 STORIES (40')	3.5 STORIES (40')

PROJECT AREA: 165,158 S.F. (3.792 ACRES)

**STORMWATER DATA TABLE**

PROPOSED CONDITIONS:	
BUILDINGS:	44,213 S.F.
PAVED AREAS:	35,372 S.F.
DRIVEWAY: (PERMEABLE PAVERS, NOT INCLUDED)	4,502 S.F.
PORCHES:	2,684 S.F.
WALKS:	6,160 S.F.
GAZEBO:	625 S.F.
<b>TOTAL PROPOSED IMPERVIOUS AREA:</b>	<b>89,054 S.F.</b>

**EXISTING CONDITIONS:**

BUILDING:	26,366 S.F.
CONCRETE:	4,341 S.F.
PARKING LOT:	45,274 S.F.
PORCH:	847 S.F.
PATIO:	601 S.F.
<b>TOTAL EXISTING IMPERVIOUS AREA:</b>	<b>77,429 S.F.</b>

**TO REMAIN:**

PORCH:	708 S.F.
MANSION:	2,808 S.F.

IMPERVIOUS AREA CONSTRUCTED AFTER 1992: 4,561 S.F.

CREDIT FOR EXISTING CONDITIONS TO BE REMOVED: 69,352 S.F.

NET NEW IMPERVIOUS AREA: 89,054 S.F. - 69,352 S.F. = 19,702 S.F.

SINCE 19,702 S.F. < 25,000 S.F., NO STORMWATER DETENTION IS REQUIRED.

**VCBMP REQUIREMENTS:**

NEW IMPERVIOUS CONSTRUCTED AFTER APRIL 23, 2013 = 89,054 S.F.  
VOL. REQ. = 89,054 S.F. x 1.25in. = 9,276 C.F.  
12 in./FT.

ADDITIONAL 2,160 CF OF STORAGE REQUIRED TO COMPENSATE EXISTING DETENTION ON SITE; WOODS AND ASSOCIATES 1984

(ASSUMING 36% VOID RATIO FOR STONE)

BMP VOLUME PROVIDED: (ADS STORAGE)  
CHAMBERS PROVIDED: 56  
END CAPS PROVIDED: 14  
STONE: 12" ABOVE, 9" BELOW, 6" SPACING, 6" PERIMETER  
APPROXIMATE VOLUME= 12,028 C.F.  
APPROXIMATE DIMENSIONS= 69' LONG, 46' WIDE, 5.5' HEIGHT

PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

REVISIONS:				
DATE	BY	DESCRIPTION	DATE	BY
8/14/20	KF	CITY COMMENTS	10/13/20	KF
9/18/20	KF	CITY COMMENTS		
9/24/20	KF	CITY COMMENTS		
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DRAWN BY: CNB  
CHECKED BY: NAV  
APPROVED BY: NAV



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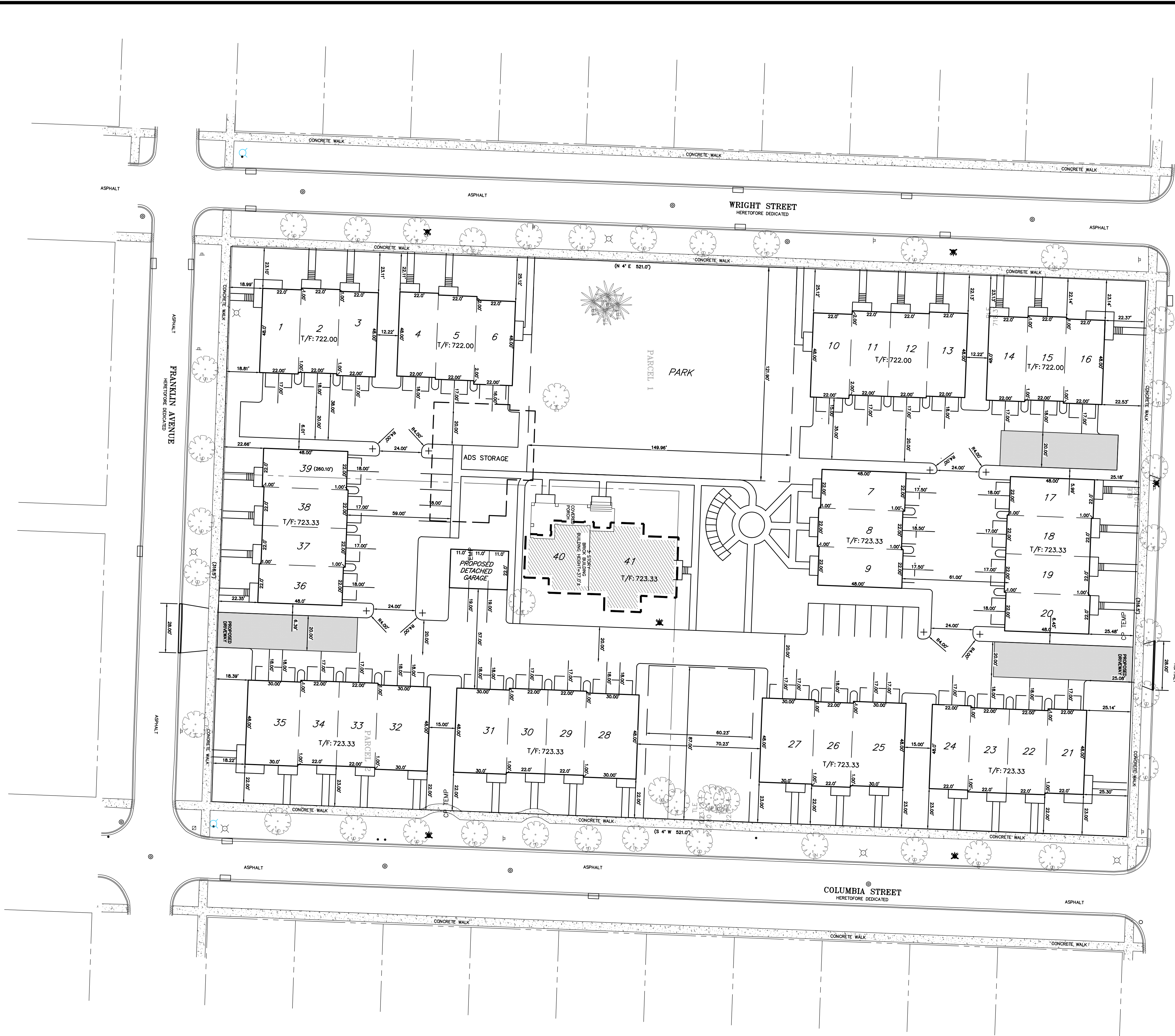
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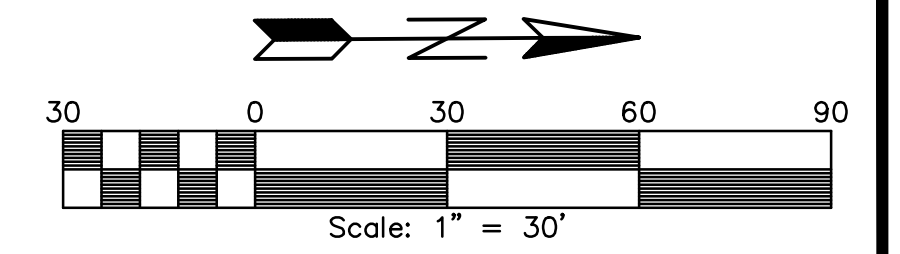
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**RAM WEST CAPITAL LLC  
IN PARTNERSHIP WITH  
DJK CUSTOM HOMES**

TITLE: **GEOMETRY PLAN  
HERITAGE PLACE  
NAPERVILLE, ILLINOIS**

SCALE: 1"=30'  
DATE: 07/29/2020  
JOB NO: W20052  
SHEET 4 OF 9



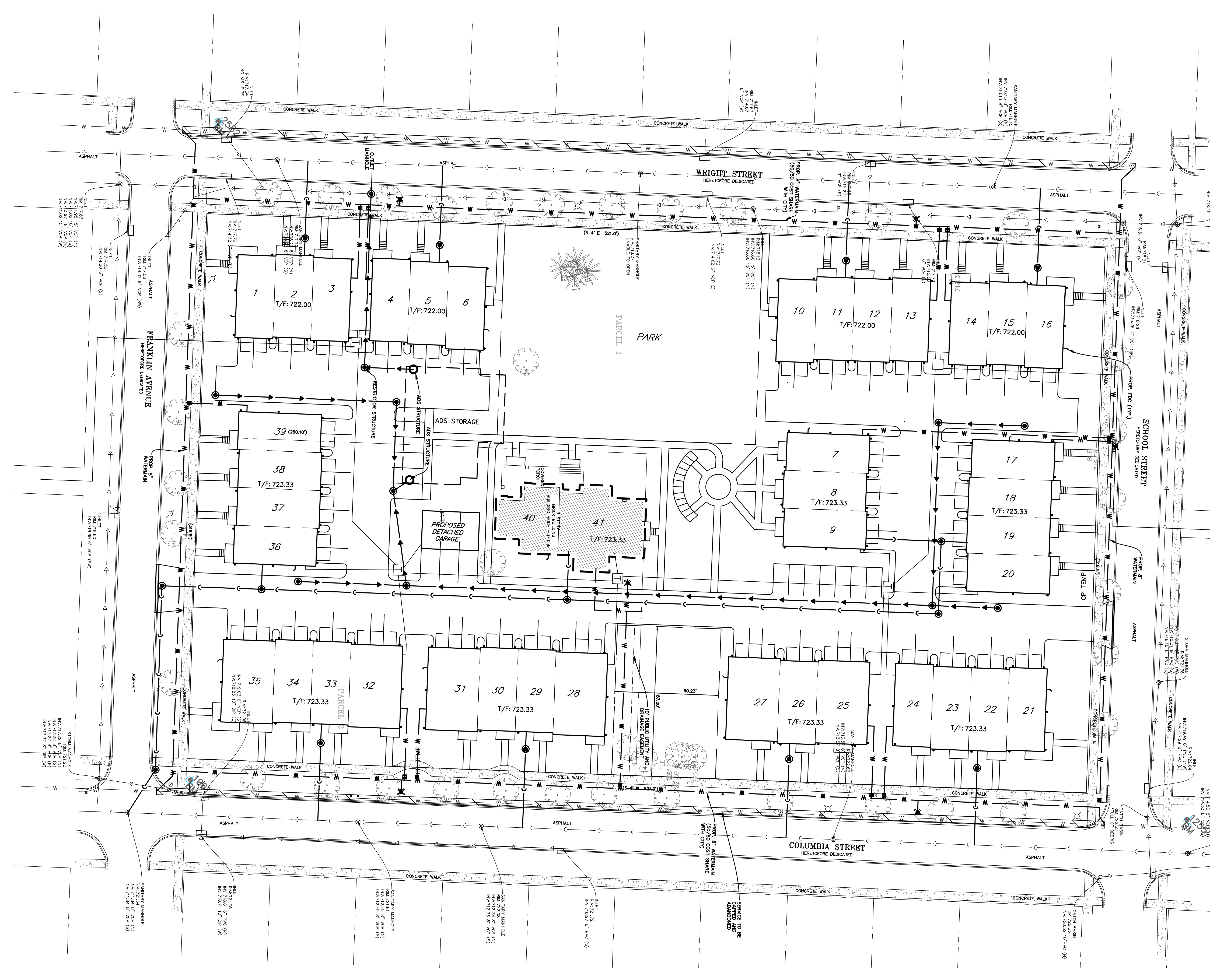


- NOTES:**
- ELECTRICAL AND INTERNAL LIGHTING TO BE DESIGNED BY OTHERS. PARKWAY LIGHT POLES TO REMAIN.
  - WATERMAIN WITHIN PARKWAY TO BE DIRECTIONALLY BORED TO LIMIT DISTURBANCE OF EXISTING TREES.
  - PERIMETER SIDEWALK TO REMAIN. DISTURBED AREAS WILL BE REPLACED IN KIND.
  - PROPOSED WATERMAIN CONNECTIONS TO EXISTING MAIN SHALL REQUIRE SHUTDOWN. SERVICE TO EXISTING HOUSE WILL BE PAID FOR AND REPLACED BY THE CITY. COORDINATION WITH THE CITY AND HOMEOWNERS WILL BE REQUIRED.
  - DRIVEWAY ISLANDS WILL BE LANDSCAPED AND FLUSH WITH ADJACENT GROUND. NO CURB AND GUTTER.
  - NO TREES, SHRUBS, OR OBSTACLES WILL BE ALLOWED WITHIN 10' OF THE FRONT, OR WITH 5' OF THE SIDES/REAR, OF THE TRANSFORMER. OR WITHIN 5' OF UNDERGROUND CABLE. CONCRETE FILLED PIPE BOLLARDS SHALL BE INSTALLED IF THE TRANSFORMER IS IN AN AREA WHERE THERE IS VEHICULAR MOVEMENT.

- PROPOSED LEGEND**
- = TO BE ABANDONED
  - = PROPOSED STORM SEWER (TO BE DESIGNED IN FINAL)
  - = PROPOSED WATERMAIN (MAINS TO BE 8" - C900 (SERVICES TO BE 2.5" - TYPE K COPPER))
  - = PROPOSED SANITARY SEWER (SERVICES 6" PVC(SDR26))
  - = PROPOSED CATCH BASIN/MANHOLE
  - = PROPOSED WATER SERVICE BOX
  - = PROPOSED FIRE HYDRANT

- EXISTING LEGEND**
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  - = EX. LOT LINE
  - = EX. EASEMENT LINE
  - = EX. BUILDING LINE
  - = EX. CENTER LINE
  - = EX. SANITARY LINE
  - = EX. STORM LINE
  - = EX. WATER LINE
  - = EX. OVERHEAD WIRE
  - = EX. CHAIN-LINK FENCE
  - = EX. DEPRESSED CURB
  - = EX. CONCRETE CURB & GUTTER
  - = EX. TREE/BRUSH LINE
  - = EX. 1 FOOT CONTOURS
  - = FOUND IRON PIPE OR ROD
  - = EX. ELECTRICAL METER
  - = EX. GAS METER
  - = EX. WATER METER
  - = EX. AIR CONDITIONING UNIT
  - = EX. CATCH BASIN
  - = EX. STORM MANHOLE
  - = EX. INLET
  - = EX. DRAIN
  - = EX. SANITARY MANHOLE
  - = EX. FIRE HYDRANT/AUX. VALVE
  - = EX. VALVE BOX
  - = EX. SIAMESE CONNECTION
  - = EX. SIGN
  - = EX. ELECTRIC JUNCTION BOX
  - = EX. UTILITY PEDESTAL
  - = EX. TRANSFORMER
  - = EX. UTILITY POLE
  - = EX. GUY WIRE
  - = EX. SIGN
  - = EX. DOWNSPOUT
  - = EX. LIGHT
  - = EX. SPOT ELEVATION
  - = EX. CONFEROUS TREE
  - = EX. DECIDUOUS TREE

- ABBREVIATIONS**
- |          |                          |
|----------|--------------------------|
| A        | ARC LENGTH               |
| B.S.L.   | BUILDING SETBACK LINE    |
| CH       | CHORD                    |
| CONC.    | CONCRETE                 |
| DIP      | DUCTILE IRON PIPE        |
| DOC.     | DOCUMENT                 |
| EAST     | EAST                     |
| FIP      | FOUND IRON PIPE          |
| FIR      | FOUND IRON ROD           |
| INV.     | INVERT                   |
| N        | NORTH                    |
| PVC      | POLYVINYL CHLORIDE       |
| R        | RADIUS                   |
| R.C.P.   | REINFORCED CONCRETE PIPE |
| R.O.W.   | RIGHT OF WAY             |
| S        | SOUTH                    |
| T/PIPE   | TOP OF PIPE              |
| VCP      | VITREOUS CLAY PIPE       |
| W        | WEST                     |
| (XXX.XX) | RECORD INFORMATION       |
| XXX.XX   | MEASURED INFORMATION     |



PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/14/20	KF	CITY COMMENTS	10/13/20	KF	CITY COMMENTS
9/18/20	KF	CITY COMMENTS			
9/24/20	KF	CITY COMMENTS			
10/7/20	KF	CITY COMMENTS			

**DRAWN BY:** KF  
**CHECKED BY:** NV  
**APPROVED BY:** NV



**ENGINEERING RESOURCE ASSOCIATES**  
 35701 WEST AVENUE, SUITE 150  
 WARRENVILLE, ILLINOIS 60555  
 PHONE (630) 393-3060  
 FAX (630) 393-2152

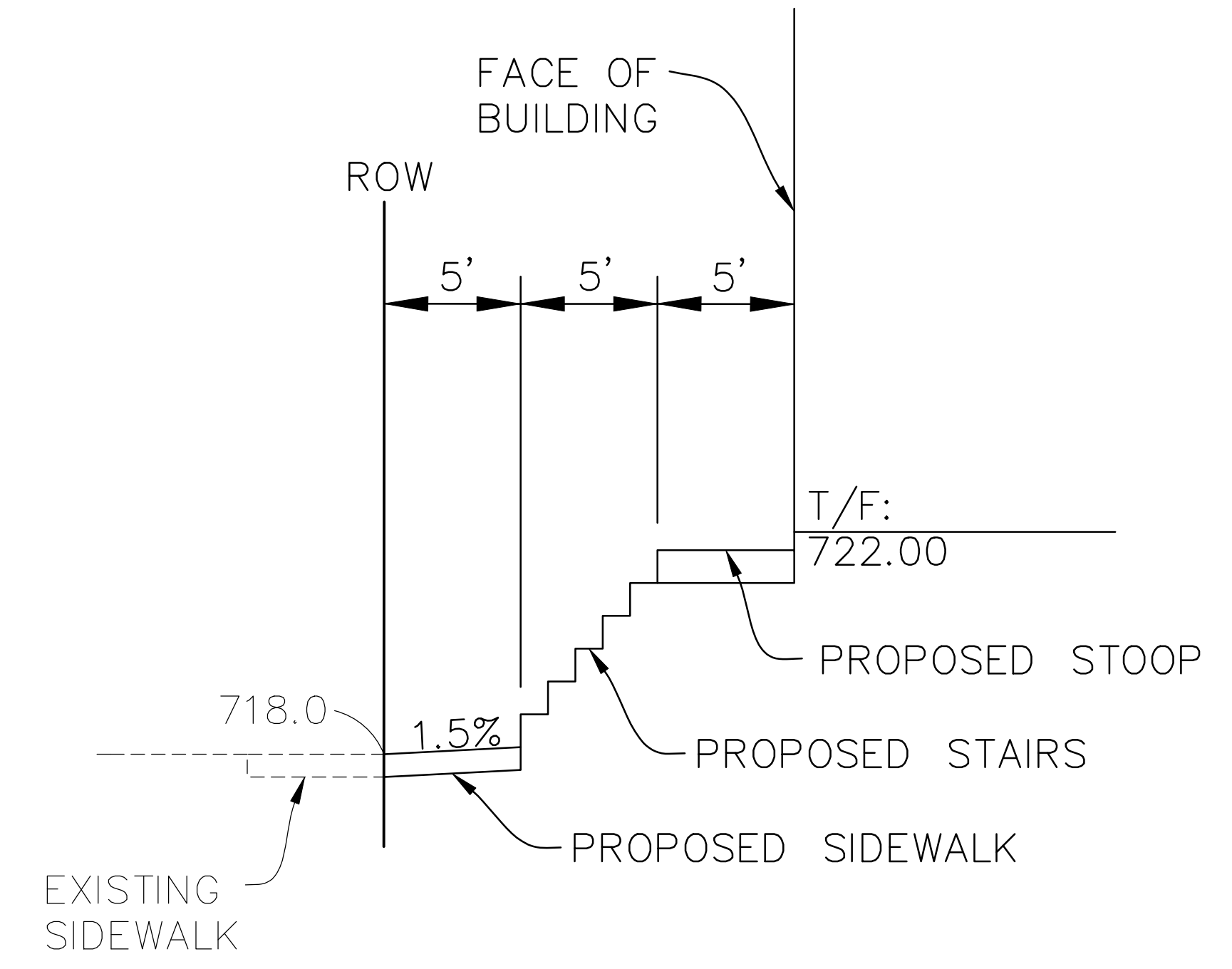
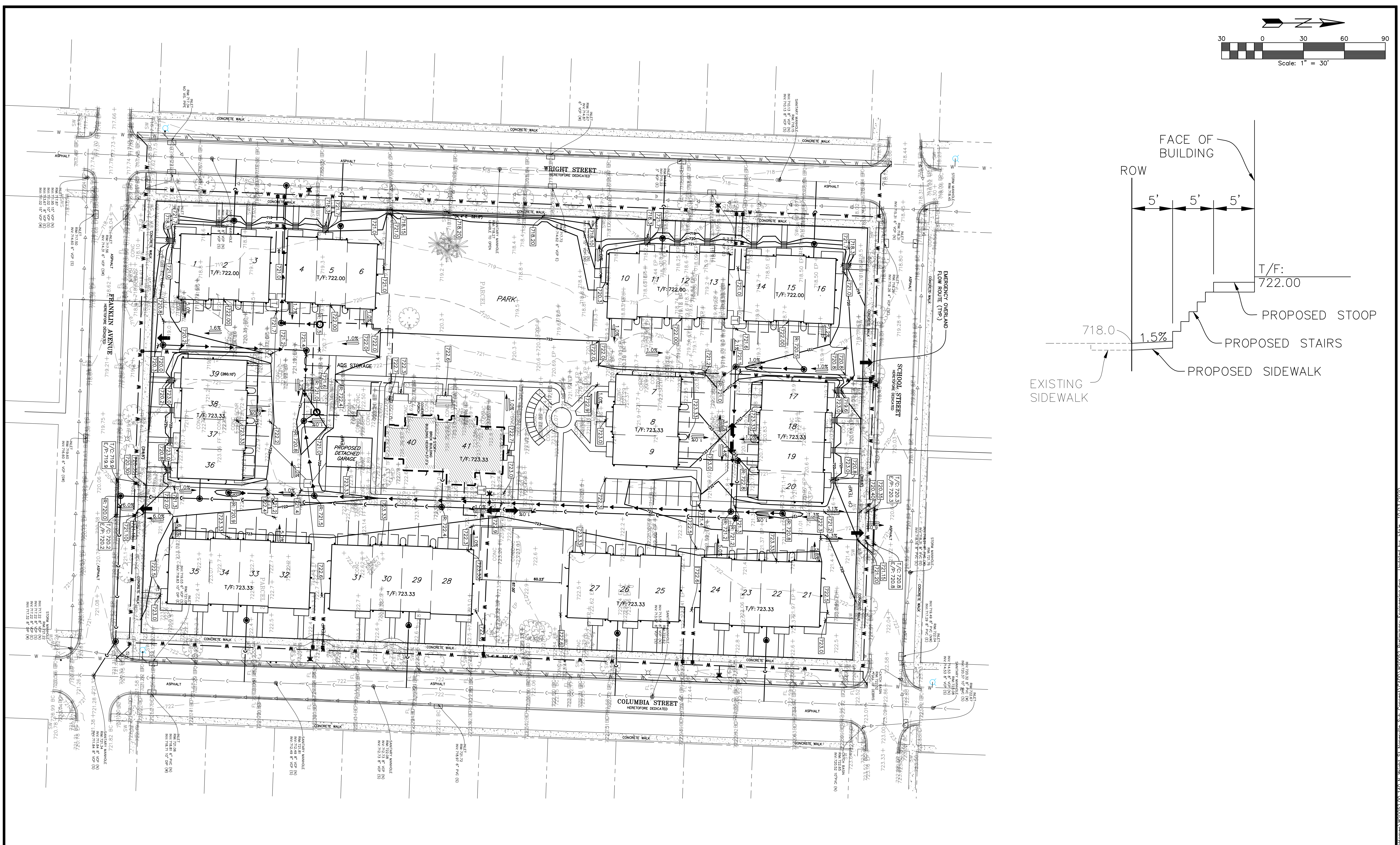
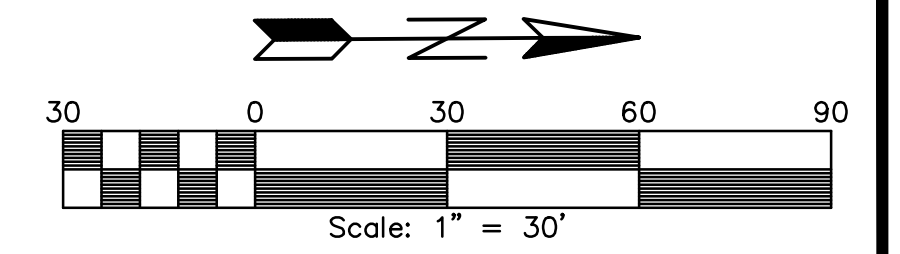
10 S. RIVERSIDE PLAZA, SUITE 875  
 CHICAGO, ILLINOIS 60606  
 PHONE (312) 474-7841  
 FAX (312) 474-6099

2416 GALEN DRIVE  
 CHAMPAIGN, ILLINOIS 61821  
 PHONE (217) 351-6268  
 FAX (217) 355-1902

**RAM WEST CAPITAL LLC  
 IN PARTNERSHIP WITH  
 DJK CUSTOM HOMES**

**TITLE:**  
**UTILITY PLAN  
 HERITAGE PLACE  
 NAPERVILLE, ILLINOIS**

**SCALE:** 1" = 30'  
**DATE:** 07/15/2020  
**JOB NO:** W20052  
**SHEET** 5 **OF** 9



PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/14/20	KF	CITY COMMENTS	10/13/20	KF	CITY COMMENTS
9/18/20	KF	CITY COMMENTS			
9/24/20	KF	CITY COMMENTS			
10/7/20	KF	CITY COMMENTS			

DRAWN BY: KF  
 CHECKED BY: NV  
 APPROVED BY: NV



**ENGINEERING RESOURCE ASSOCIATES**  
 35701 WEST AVENUE, SUITE 150  
 WARRENVILLE, ILLINOIS 60055  
 PHONE (630) 393-3060  
 FAX (630) 393-2152

10 S. RIVERSIDE PLAZA, SUITE 875  
 CHICAGO, ILLINOIS 60606  
 PHONE (312) 474-7841  
 FAX (312) 474-6099

2416 GALEN DRIVE  
 CHAMPAIGN, ILLINOIS 61821  
 PHONE (217) 351-6268  
 FAX (217) 355-1902

**RAM WEST CAPITAL LLC  
 IN PARTNERSHIP WITH  
 DJK CUSTOM HOMES**

TITLE:

**GRADING PLAN  
 HERITAGE PLACE  
 NAPERVILLE, ILLINOIS**

SCALE: 1" = 30'  
 DATE: 07/15/2020  
 JOB NO: W20052  
 SHEET 6 OF 9

V:\PROJECTS\2020\Heritage Place\Sub Concept\CAD\W20052.dwg Preliminary Engineering.dwg Updated by: KJF 10/13/2020

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	



ADVANCED DRAINAGE SYSTEMS, INC.

## HERITAGE PLACE 10.2.20 NAPERVILLE, IL



### MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (4" MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
  - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
  - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
  - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

### IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONESHOTTER LOCATED OFF THE CHAMBER BED.
  - BACKFILL AS ROWS ARE LIFTED USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF FLEXSTORM CATCH IT™ INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

### NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
  - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
  - NO RUBBER Tired LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
  - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

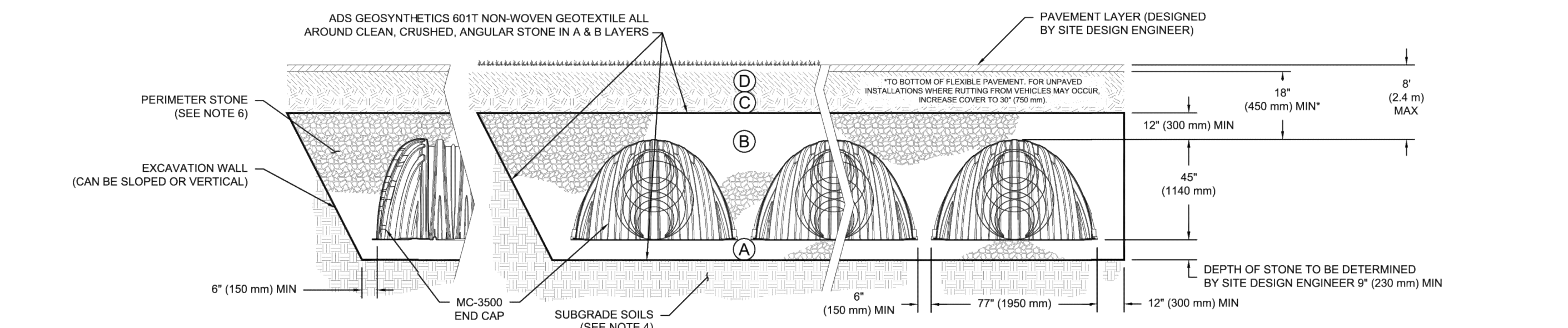
CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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### ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <3% FINES OR PROCESSED AGGREGATE.	AASHTO M145 A-1, A-2.4, A-3 OR AASHTO M43 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 3, 4	NO COMPACTION REQUIRED.
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
  - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



### NOTES:

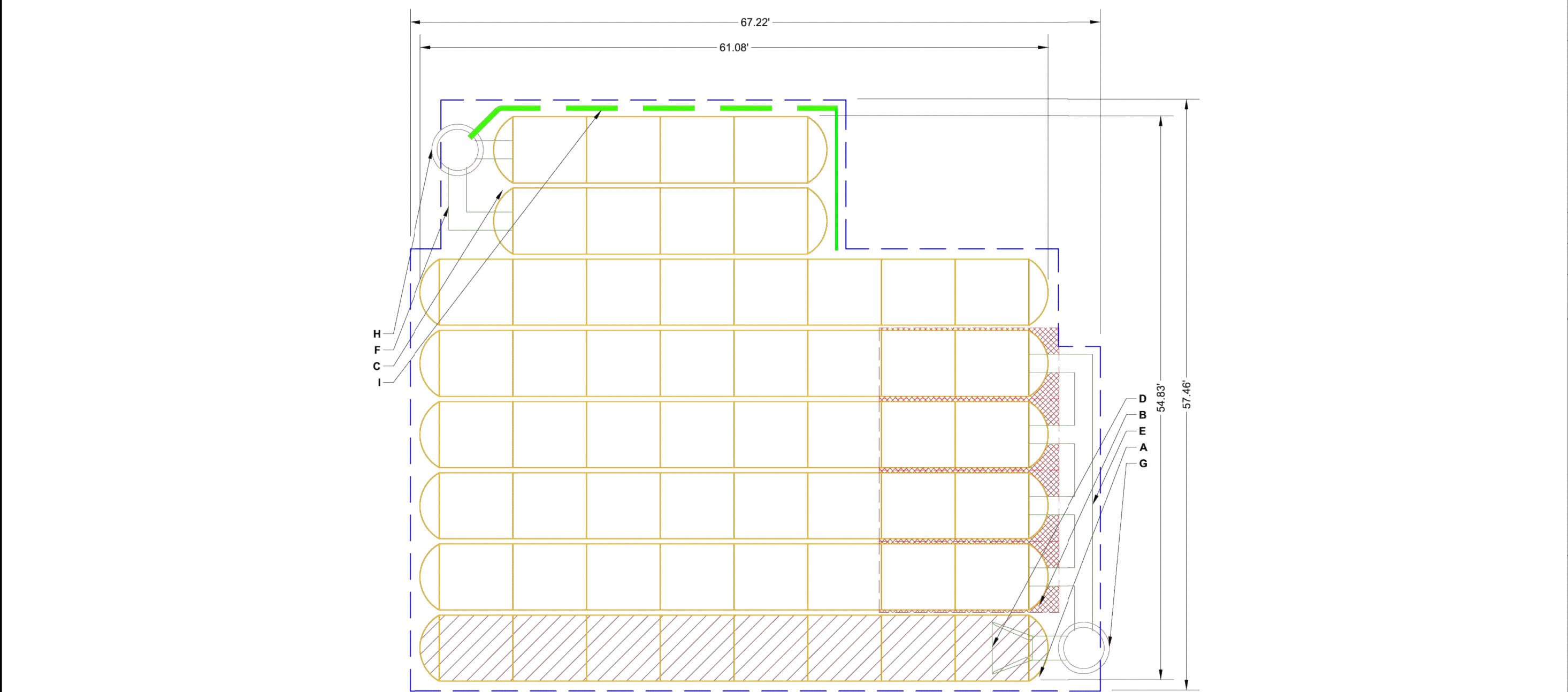
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- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
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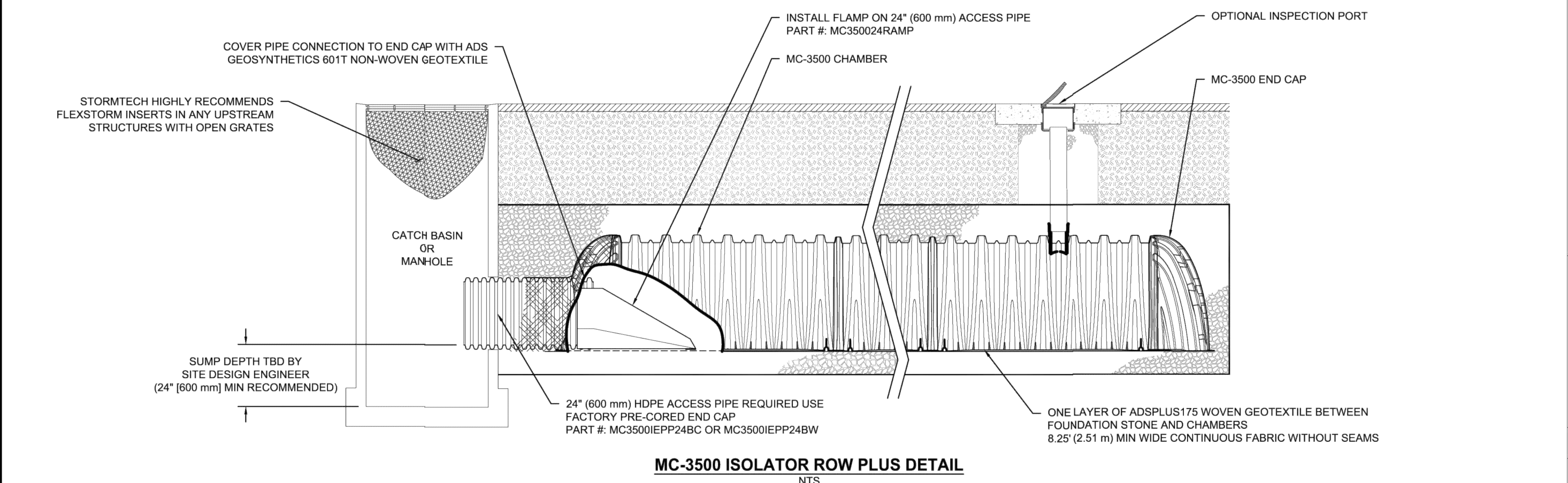
ENGINEERING RESOURCE ASSOCIATES  
 35701 WEST AVENUE, SUITE 150  
 WARRENVILLE, ILLINOIS 60555  
 PHONE (630) 393-3060  
 FAX (630) 393-2152

RAM WEST CAPITAL LLC  
 IN PARTNERSHIP WITH  
 DJK CUSTOM HOMES

PROPOSED LAYOUT	PROPOSED ELEVATIONS	PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT	MAX FLOW
56	STORMTECH MC-3500 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT UNPAVED):	726.50			
16	STORMTECH MC-3500 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	721.00	PREFABRICATED END CAP	A	24" BOTTOM CORED END CAP, PART#: MC3500EPP24BC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR ROW PLUS
24	STONE ABOVE (IN)	TOP OF STONE:	720.50			
9	STONE BELOW (IN)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	720.00	PREFABRICATED END CAP	B	18" TOP CORED END CAP, PART#: MC3500EPP18TC / TYP OF ALL 18" TOP CONNECTIONS
36	STONE VOID	MINIMUM ALLOWABLE GRADE (TOP OF RIGID FLEXIBLE PAVEMENT):	720.00			
12098	INSTALLED SYSTEM VOLUME (CF)	TOP OF MC-3500 CHAMBER:	715.50	PREFABRICATED END CAP	C	18" BOTTOM CORED END CAP, PART#: MC3500EPP18BC / TYP OF ALL 18" BOTTOM CONNECTIONS
3421	SYSTEM AREA (SF)	18" X 18" TOP MANIFOLD INVERT:	716.42	FLAMP	D	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: MC350024RAMP
249.4	SYSTEM PERIMETER (ft)	24" ISOLATOR ROW PLUS INVERT:	714.30	MANIFOLD	E	18" X 18" TOP MANIFOLD, ADS N-12
		18" X 18" BOTTOM MANIFOLD INVERT:	714.30	MANIFOLD	F	18" X 18" BOTTOM MANIFOLD, ADS N-12
		18" BOTTOM CONNECTION INVERT:	714.90	CONCRETE STRUCTURE	G	(DESIGNED BY ENGINEER / PROVIDED BY OTHERS)
		BOTTOM OF MC-3500 CHAMBER:	714.75	CONCRETE STRUCTURE	H	(DESIGNED BY ENGINEER / PROVIDED BY OTHERS)
		UNDERDRAIN INVERT:	714.00	UNDERDRAIN	I	6" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN
		BOTTOM OF STONE:	714.00			



- ISOLATOR ROW PLUS (SEE DETAIL)
- PLACE MINIMUM 17.5' OF ADSPLUS175 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS.
- BED LIMITS
- NOTES**
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
  - DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
  - THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
  - THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
  - NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.



- ### INSPECTION & MAINTENANCE
- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
  - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
  - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
  - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
  - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
  - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

- ### NOTES
- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
  - CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

HERITAGE PLACE 10.2.20  
 NAPERVILLE, IL

DATE: PROJECT #:  
 DRAWN: MW CHECKED: N/A

4640 TRUMAN BLVD  
 NAPERVILLE, IL 60563  
 1-800-733-4713

StormTech  
 800 DOWELL AVENUE | FRODOY HILL, IL 60477  
 800-538-8188 | 888-892-2694 | WWW.STORMTECH.COM

REVISIONS:

DESCRIPTION

REV: DRW: CHK:

SHEET 3 OF 5

HERITAGE PLACE 10.2.20  
 NAPERVILLE, IL

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SHEET 2 OF 5

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DESCRIPTION

REV: DRW: CHK:

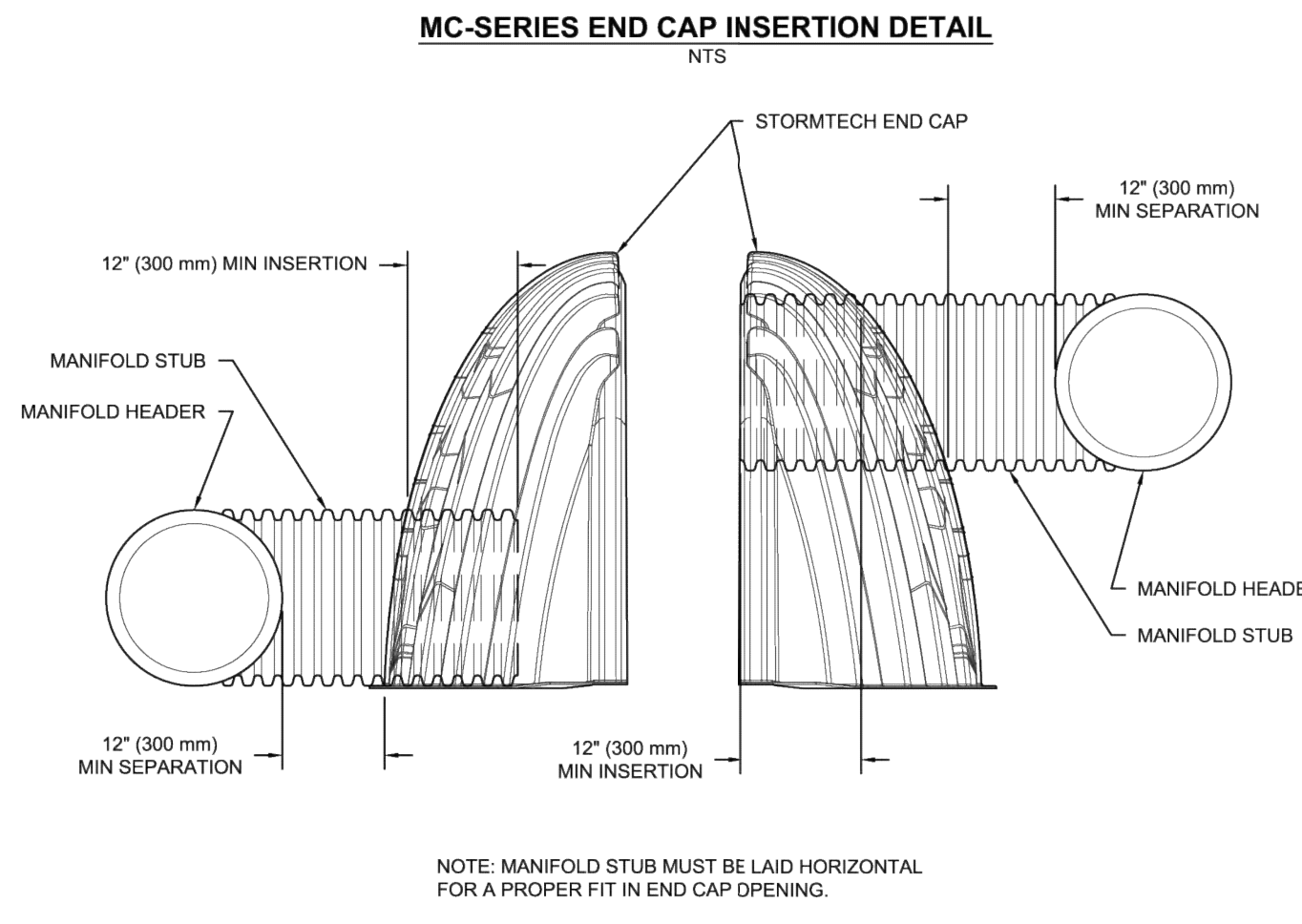
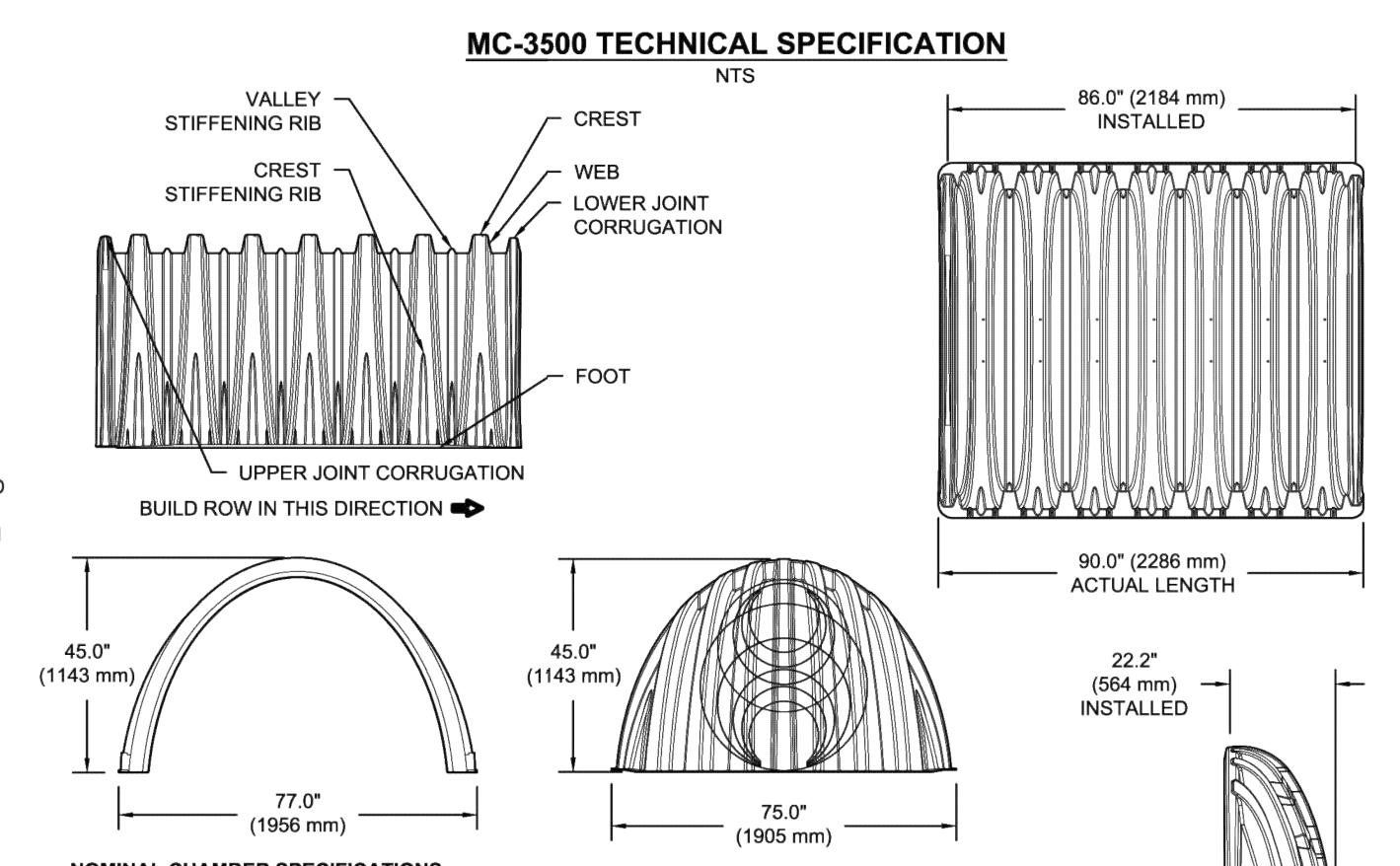
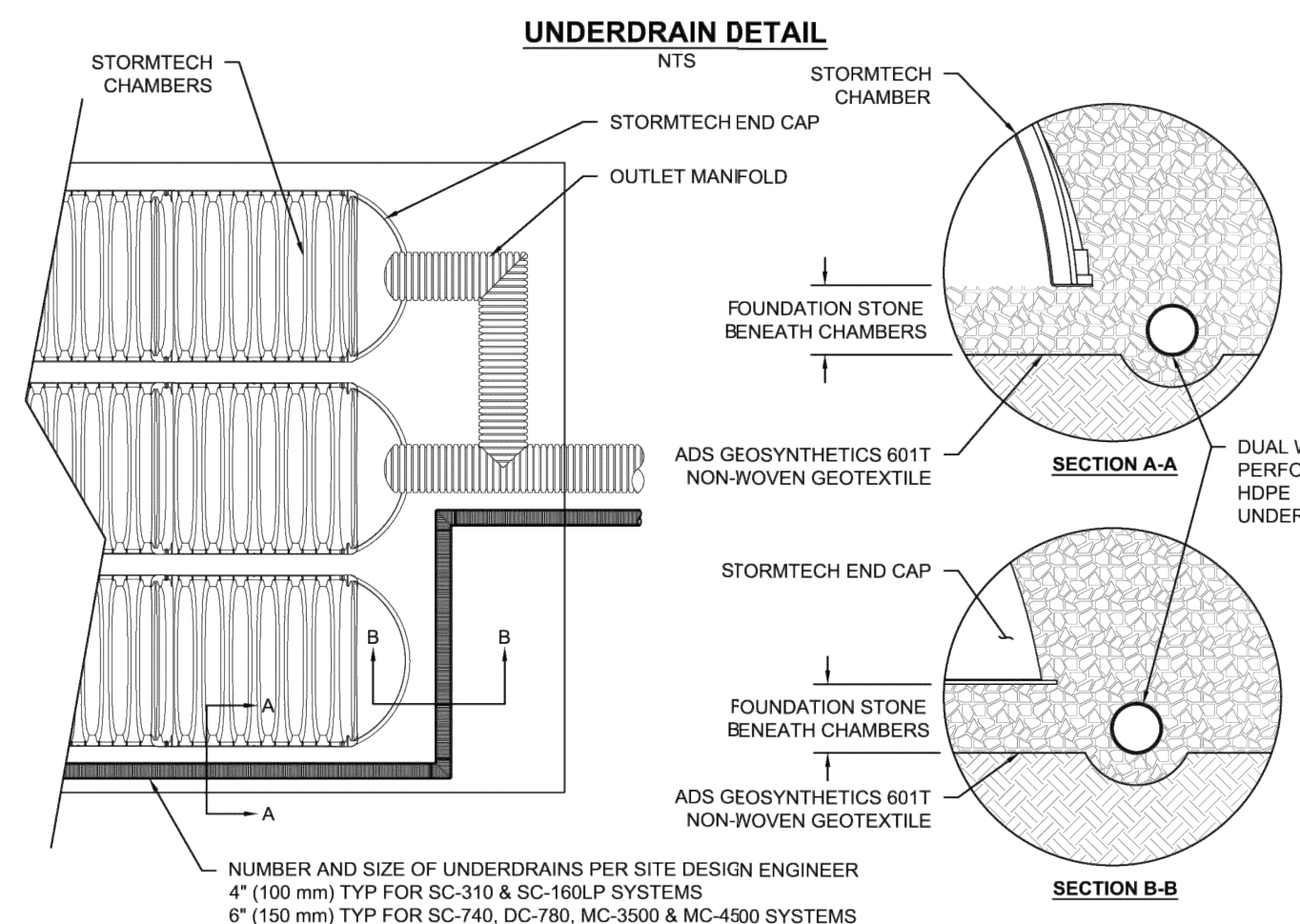
SHEET 4 OF 5

SCALE: N.T.S.  
 DATE: 07/15/2020  
 JOB NO: W20052

PROFESSIONAL DESIGN FIRM NUMBER: 184-001186

Updated by: kfpj

SHEET 7 OF 9



**NOMINAL CHAMBER SPECIFICATIONS**

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m <sup>3</sup> )
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m <sup>3</sup> )
WEIGHT	134 lbs.	(60.8 kg)

**NOMINAL END CAP SPECIFICATIONS**

SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m <sup>3</sup> )
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m <sup>3</sup> )
WEIGHT	49 lbs.	(22.2 kg)

\*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" SPACING BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"  
 STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"  
 END CAPS WITH A WELDED CROWN PLATE END WITH "C"  
 END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B	---	---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B	---	---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B	---	---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B	---	---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B	---	---	1.50" (38 mm)
MC3500IEPP18TC	---	20.03" (509 mm)	---
MC3500IEPP18TW	18" (450 mm)	---	---
MC3500IEPP18BC	---	---	1.77" (45 mm)
MC3500IEPP18BW	---	---	---
MC3500IEPP24TC	---	14.48" (368 mm)	---
MC3500IEPP24TW	24" (600 mm)	---	---
MC3500IEPP24BC	---	---	2.06" (52 mm)
MC3500IEPP24BW	---	---	---
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PRECURED INVERTS ARE AVAILABLE UPON REQUEST.  
 INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

HERITAGE PLACE 10.2.20  
 NAPERVILLE, IL

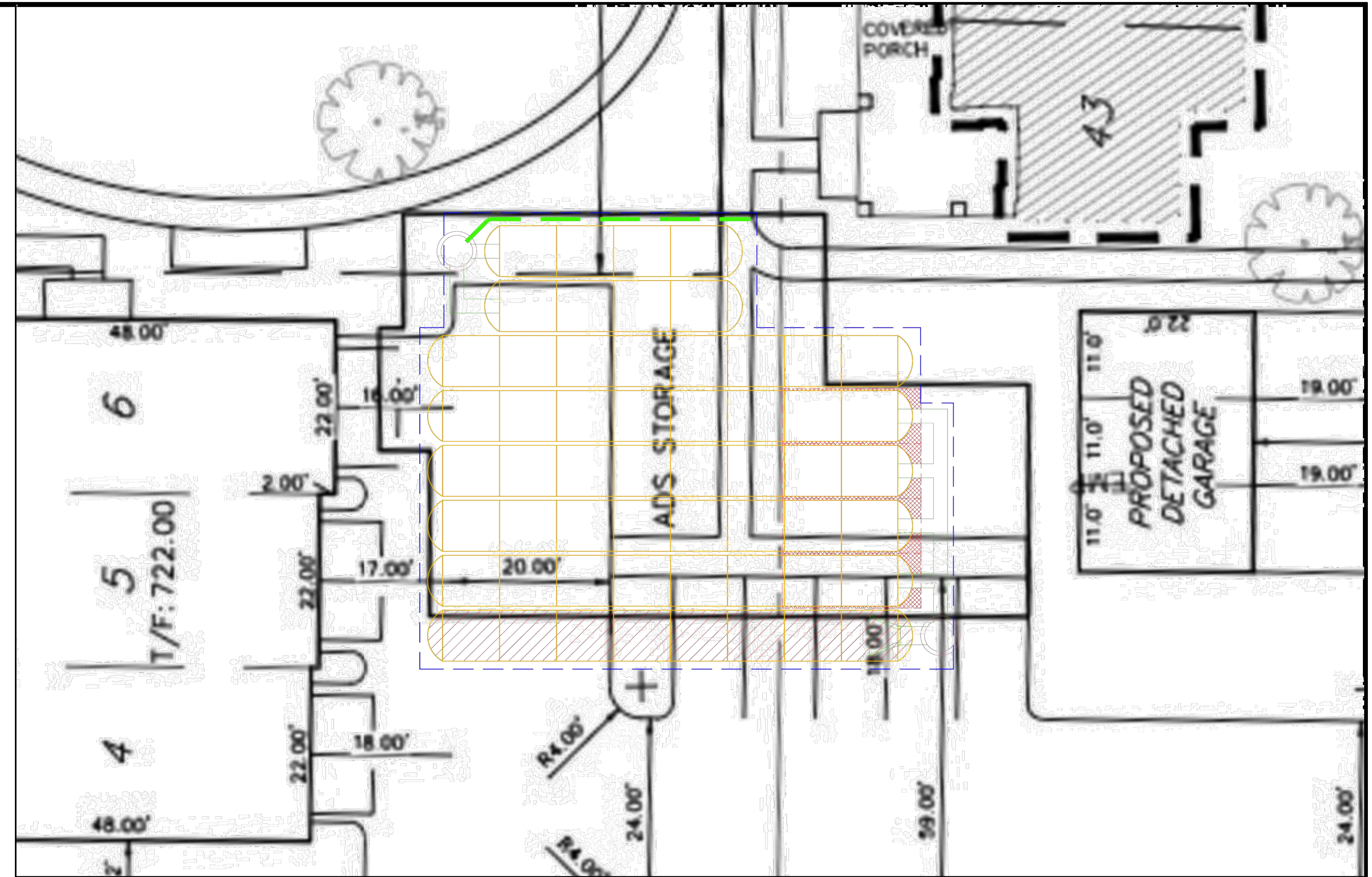
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 REV: \_\_\_\_\_  
 DRW: \_\_\_\_\_  
 CHK: \_\_\_\_\_

DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 PROJECT #: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_

Stormtech  
 8500 WILLOW AVENUE | ROCKFORD, IL 61109  
 HILLIARD, OH 43009  
 1-800-733-7473

ADS  
 1465 TRUMAN BLVD  
 HILLIARD, OH 43009  
 1-800-733-7473

SHEET  
 5 OF 5



REVISIONS:

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/14/20	KF	CITY COMMENTS	10/13/20	KF	CITY COMMENTS
9/18/20	KF	CITY COMMENTS			
9/24/20	KF	CITY COMMENTS			
10/7/20	KF	CITY COMMENTS			

DRAWN BY: KF  
 CHECKED BY: NV  
 APPROVED BY: NV



35701 WEST AVENUE, SUITE 150  
 WARRENVILLE, ILLINOIS 60555  
 PHONE (630) 393-3060  
 FAX (630) 393-2152

10 S. RIVERSIDE PLAZA, SUITE 875  
 CHICAGO, ILLINOIS 60606  
 PHONE (312) 474-7841  
 FAX (312) 474-6099

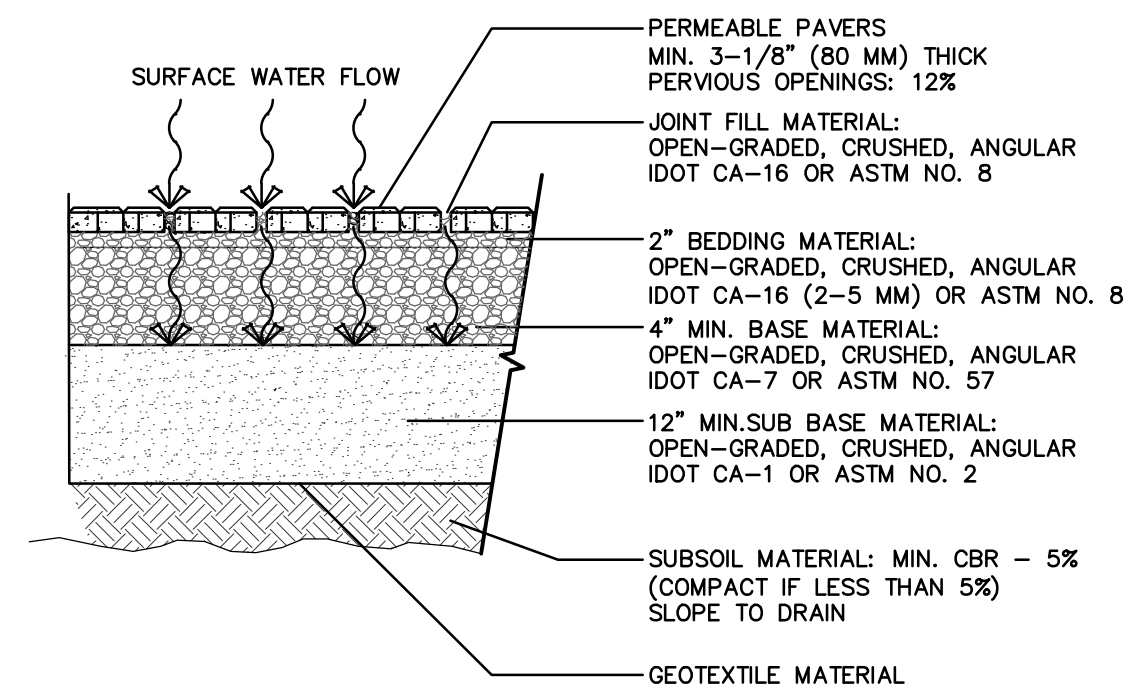
2416 GALEN DRIVE  
 CHAMPAIGN, ILLINOIS 61821  
 PHONE (217) 351-6268  
 FAX (217) 355-1902

RAM WEST CAPITAL LLC  
 IN PARTNERSHIP WITH  
 DJK CUSTOM HOMES

TITLE:  
 ADS DETAILS  
 HERITAGE PLACE  
 NAPERVILLE, ILLINOIS

SCALE: N.T.S.  
 DATE: 07/15/2020  
 JOB NO: W20052  
 SHEET 8 OF 9





**PERMEABLE PAVER DETAIL**  
NOT TO SCALE

**SP-22. PERMEABLE PAVER PAVEMENT, FULL DEPTH**

**DESCRIPTION**

PERMEABLE PAVER PAVEMENT shall consist of all materials, tools, equipment, cutting, cleanup and labor necessary to install the geo-technical fabric (needle-punched, non-woven), granular sub-base (CA-1), aggregate base course (CA-7), setting course (CA-16), permeable pavers, and crevice infill for permeable pavers as shown and called out for in plans and specifications.

**RELATED SECTIONS**

This work shall also conform to the following sections of the bid specifications proposal book:

- 1) Section 202 IDOT Standards and Specifications
- 2) Section 210 IDOT Standards and Specifications
- 3) Section 301 IDOT Standards and Specifications
- 4) Section 351 IDOT Standards and Specifications
- 5) Section 606 IDOT Standards and Specifications

**PRODUCT HANDLING**

- 1) Use all means necessary to protect materials before, during, after delivery to the job site, and to protect the installed work and materials of all other trades.
- 2) Deliver the materials to the job site and store in a safe area, out of the way of traffic, and shore up off the ground surface.
- 3) In the event of damage, immediately make all repairs and replacements necessary to the approval of the ENGINEER or OWNER and at no additional cost to the OWNER.

**MATERIALS**

The minimum material and physical properties set forth in ASTM -936, Standard Specification for Interlocking Concrete Paving Units. This includes the following requirements:

- 1) Colors & Finishes: Parking lot paver color shall be approved by the OWNER prior to installation, see Landscape Plans for detailed specifications.
- 2) Patterns: Field pattern shall be standard as provided by manufacturer with one row of soldier course pavers surrounding entire permeable paver area.
- 3) Dimensions: Field pavers shall measure approximately 10.25" x 10.25" x 3.25".
- 4) Pavers shall meet ADA compliance with no more than 1/4" gap.
- 5) Average compressive strength 8,000 psi (55 MPa) with no individual unit under 7,000 psi (50 MPa).
- 6) Average absorption of 5% with no unit greater than 7% when tested according to ASTM C-140.
- 7) Resistance to 50 freeze-thaw cycles, when tested according to ASTM C-67, with no breakage greater than 1.0% loss in dry weight of any individual unit. This test method shall be conducted not more than 12 months prior to delivery of units.
- 8) Surface course crevice fill shall be CA-16 or granite chips.
- 9) Setting course shall be 2" of CA-16.
- 10) 4" Compacted Aggregate Base Course (CA-7) under setting bed.
- 11) 12" Compacted Granular Sub-base Material (CA-1) under compacted aggregate base course.
- 12) Geo-technical Fabric (needle-punched, non-woven) for Ground Stabilization under compacted granular sub-base.

**DELIVERIES**

Stockpile all materials sufficiently in advance of need to ensure their availability in a timely manner for this work.

**CONSTRUCTION REQUIREMENTS**

Install per manufacturer's recommendations and as detailed in the plans and specifications. Remove all debris and unsuitable materials from the jobsite upon completion. Clean and sweep paving surfaces when complete. Refill crevices as necessary after settlement period per manufacturer's recommendations.

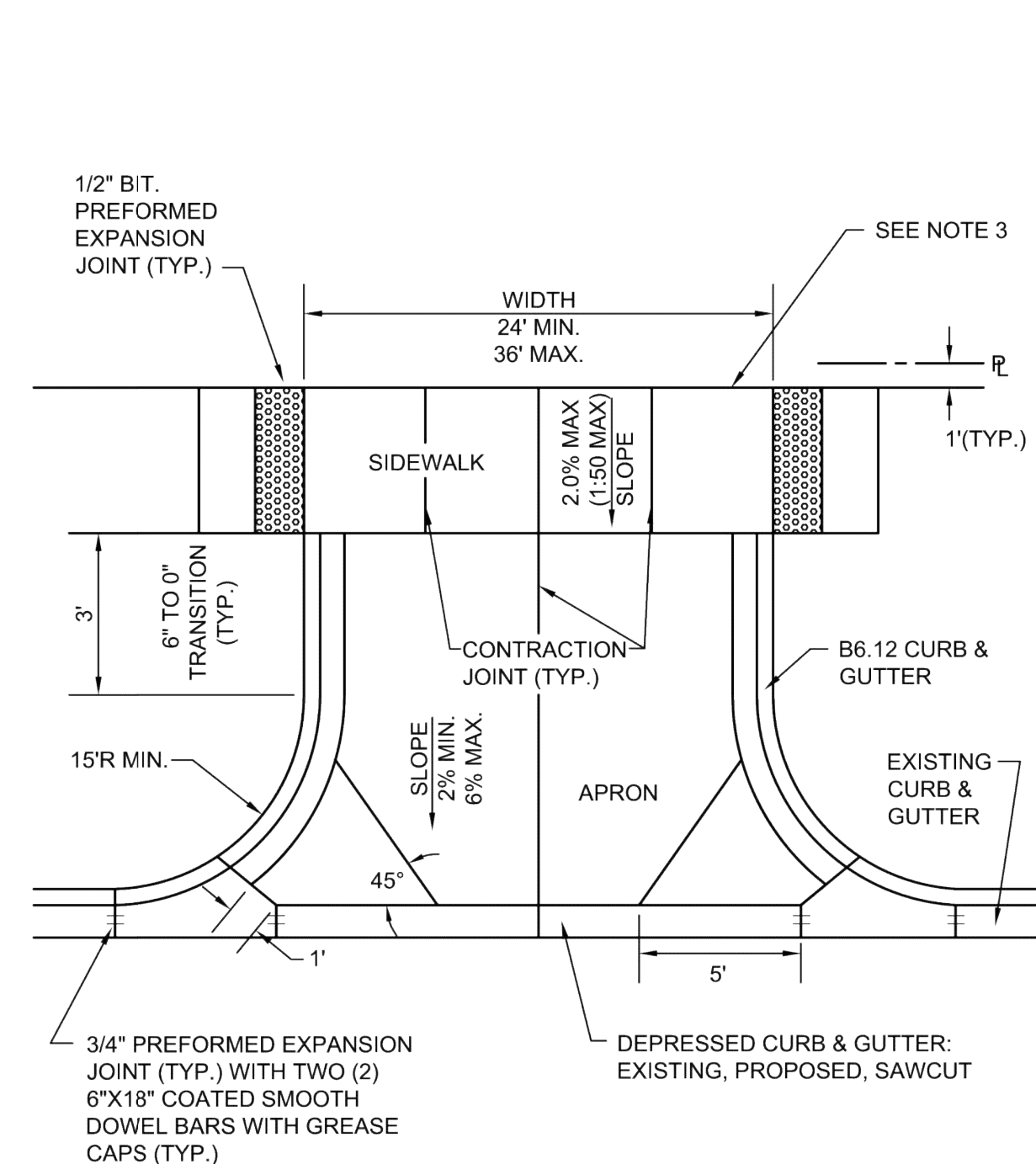
**SUBMITTALS**

The permeable pavers must be approved by the Project Representative prior to installation. Submit samples of the permeable pavers, literature, and build a minimum 3'x3' mockup that includes all required colors, finishes, patterns and infill material. In addition CONTRACTOR must provide 2 CY of extra of crevice infill upon completion of the project for the OWNER to utilize for

future needs. Delivery and stockpiling of the extra material to be coordinated with the Project Representative before final completion can be issued.

**BASIS OF PAYMENT**

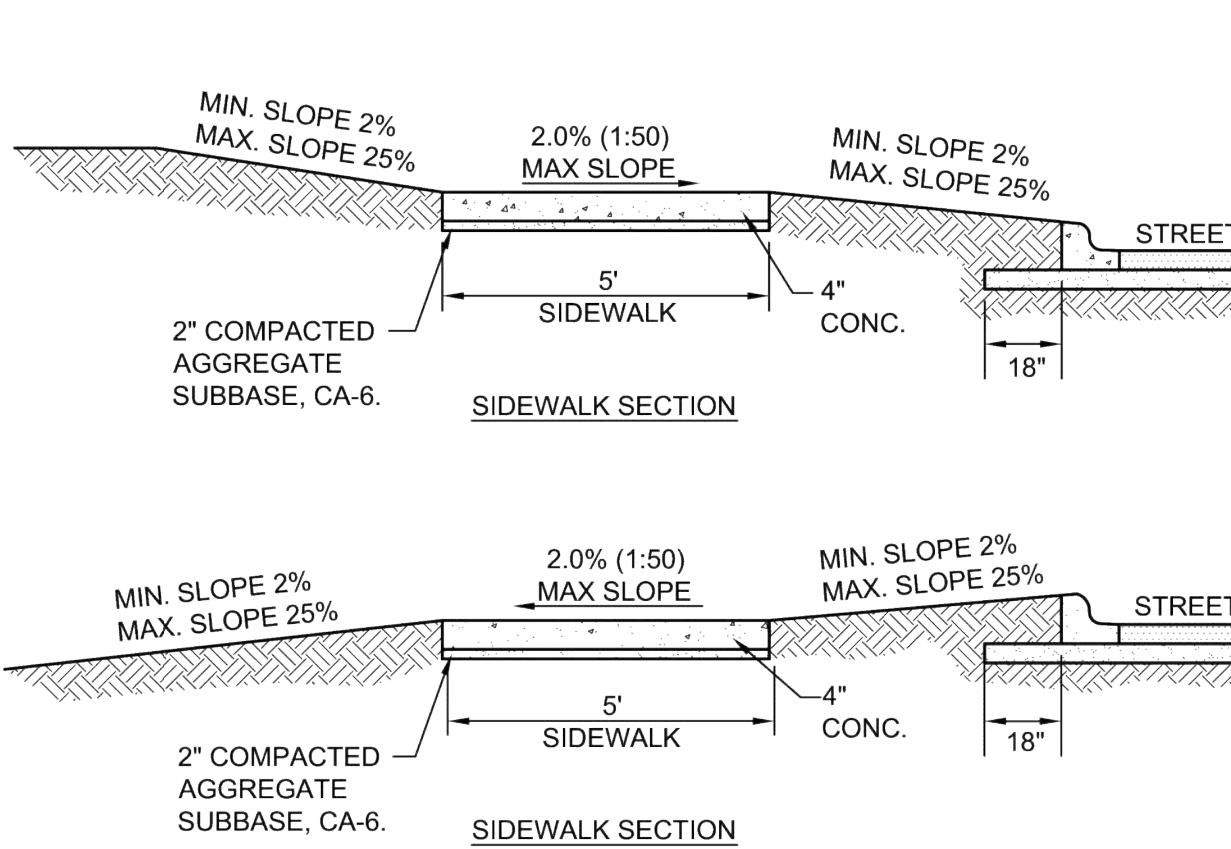
This work shall be measured and paid for separately at the contract unit price per square foot of PERMEABLE PAVER PAVEMENT, FULL DEPTH, which shall be payment in full for all materials, equipment, tools and labor necessary to install the subbase course, base course, setting bed (CA-16), permeable pavers, crevice infill, perform necessary cuts and cleanup, and blend the new permeable pavement with the existing permeable pavement.



**NOTES:**

1. ALL AGGREGATE SUB-BASE SHALL BE MECHANICALLY COMPACTED.
2. SIDEWALK SHALL CONTINUE THROUGH DRIVEWAYS.
3. SIDEWALK THICKNESS ACROSS DRIVEWAYS SHALL BE A MINIMUM OF 8" PCC ON 4" AGGREGATE SUB-BASE.
4. DETECTABLE WARNINGS SHALL ONLY BE INSTALLED AT DRIVEWAYS WITH PERMANENT TRAFFIC CONTROL DEVICES.
5. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
6. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

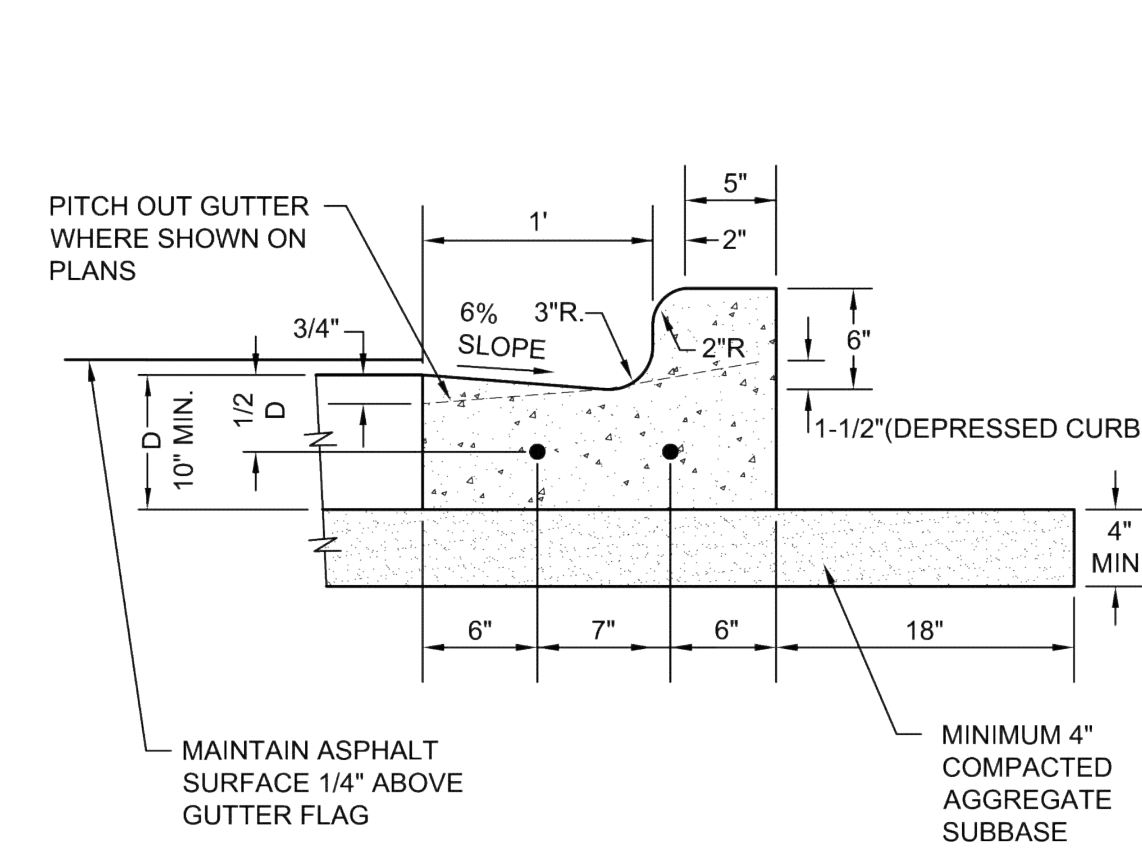
City of Naperville STANDARD DETAIL TYPICAL COMMERCIAL DRIVEWAY DETAIL REVISIONS: 01/01/2013 SHEET 1 OF 1 PAVEMENT 5 **590.05**



**NOTES:**

1. CONCRETE SHALL BE IDOT CLASS SI.
2. MINIMUM SIDEWALK THICKNESS SHALL BE 4".
3. SIDEWALK THICKNESS ACROSS DRIVEWAYS SHALL BE AT A MINIMUM 6" FOR RESIDENTIAL DRIVEWAYS AND 8" FOR COMMERCIAL DRIVEWAYS.
4. MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5% (20:1). FOR ANY SLOPE IN EXCESS OF 5% ALL REQUIREMENTS OF THE ILLINOIS ACCESSIBILITY CODE (LATEST EDITION) SHALL BE MET.
5. MINIMUM TRANSVERSE SLOPE SHALL BE 1.0% (1:100). MAXIMUM TRANSVERSE SLOPE SHALL BE 2.0% (1:50).
6. A MINIMUM 2" AGGREGATE SUBBASE (CA-6) SHALL BE PROVIDED. (4" THROUGH COMMERCIAL DRIVEWAYS).
7. AGGREGATE SUBBASE SHALL BE MECHANICALLY COMPACTED.
8. ALL SIDEWALKS SHALL BE PROMPTLY BACKFILLED AND PROTECTED FROM DAMAGE.
9. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
10. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

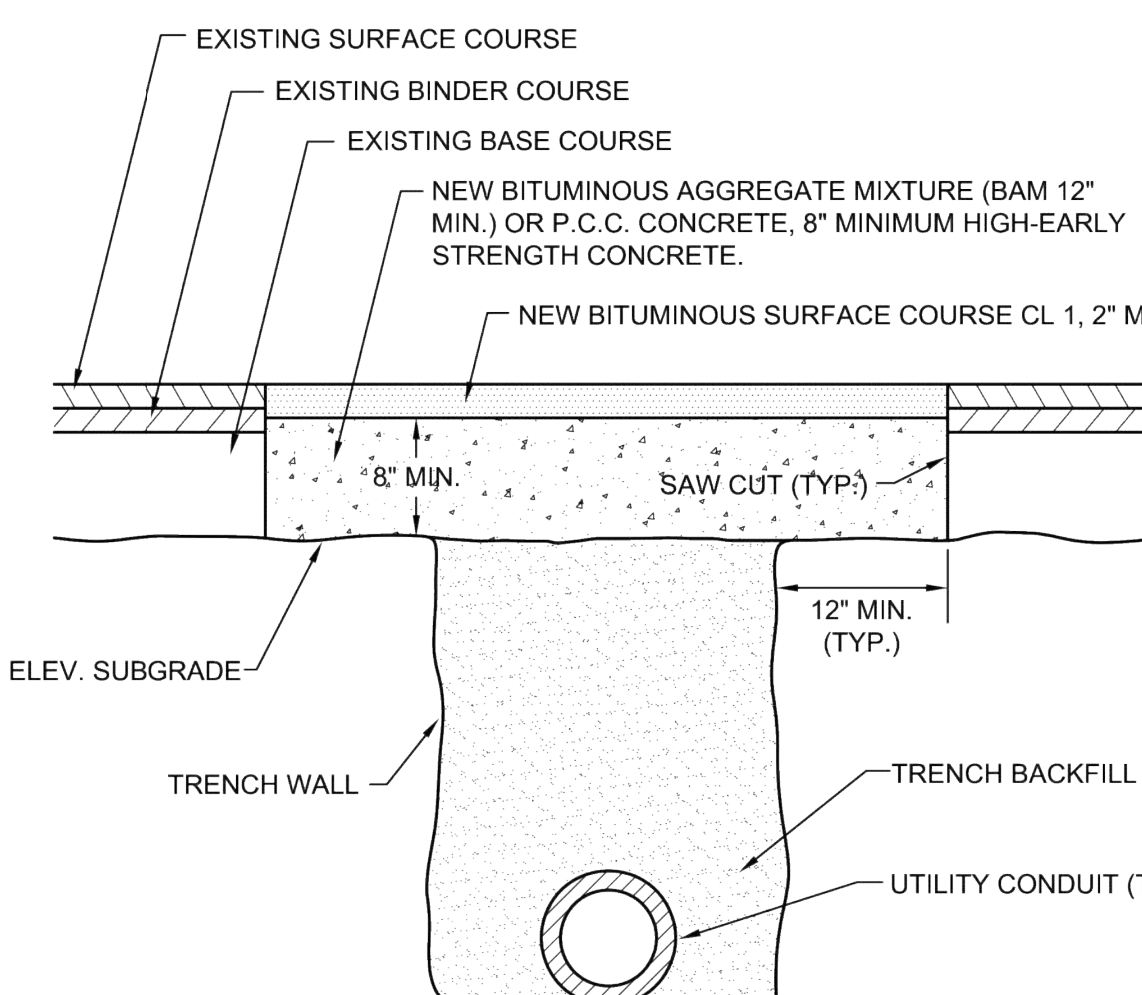
City of Naperville STANDARD DETAIL SIDEWALK REVISIONS: 01/01/2013 SHEET 1 OF 1 PAVEMENT 30 **590.30**



**NOTES:**

1. 3/4" PREFORMED BITUMINOUS EXPANSION JOINT WITH TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" DIA. X 18") WITH GREASE CAPS SHALL BE PLACED EVERY 150'. 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, RADIUS POINTS AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURB & GUTTER THE EXISTING CURB SHALL BE DRILLED AND TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" X 18") GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THE SIDE OF THE NEW CURB AND GUTTER SHALL HAVE A PINCHED STOP THAT WILL PROVIDE A MINIMUM 1" EXPANSION.
2. TOOLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15'.
3. SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH A CITY APPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.
4. FOR CURB AND GUTTER CONSTRUCTED OVER UTILITY TRENCHES, TWO (2) EPOXY COATED REINFORCING BARS (NO. 4) SHALL BE PLACED IN THE CURB AND GUTTER, CENTERED OVER THE TRENCH.

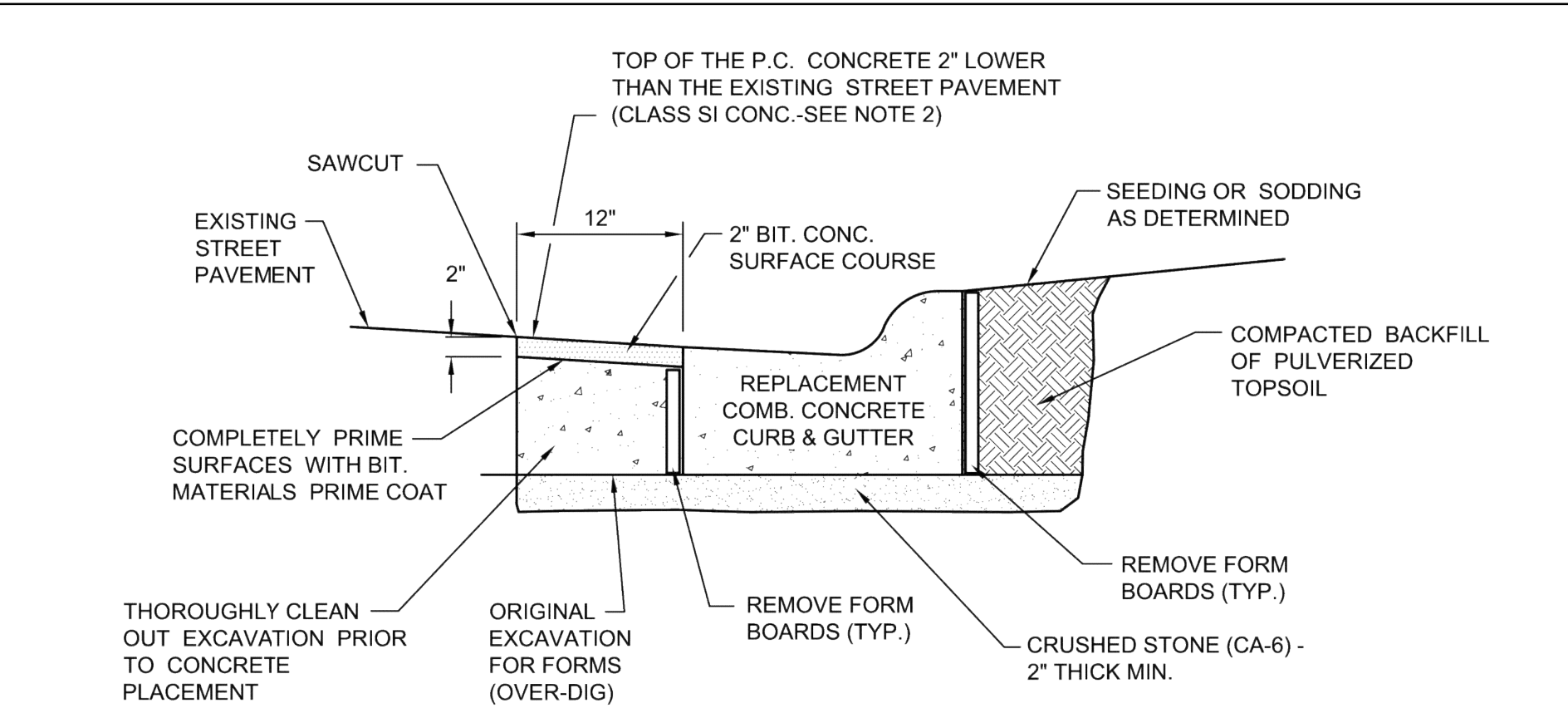
City of Naperville STANDARD DETAIL B6.12 BARRIER CURB & GUTTER REVISIONS: 01/01/2013 SHEET 1 OF 1 PAVEMENT 20 **590.20**



**NOTES:**

1. THE TRENCH SHALL BE BACKFILLED WITH AGGREGATE (CA-6) AND COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY. TRENCH SPOILS OR EXCAVATED MATERIAL SHALL BE DISCARDED BY THE CONTRACTOR, AT HIS EXPENSE, AT DUMP SITES OR IN A SUITABLE FASHION AS APPROVED BY THE CITY ENGINEER.
2. PRIOR TO PLACING OF P.C.C. CONCRETE, THE EXPOSED EDGES OF ALL EXISTING PAVEMENT SHALL BE SAW CUT TO PROVIDE A SMOOTH, CLEAN EDGE, FREE OF LOOSE MATERIAL.
3. EXCAVATIONS SHALL BE PROTECTED BY BARRICADES WITH FLASHING LIGHTS. A 1" STEEL PLATE SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR AT LOCATIONS WHERE ADJUSTMENTS ARE LOCATED IN TRAVEL LANES UNTIL THE SURFACE RESTORATION IS COMPLETE. THE PLATE SHALL BE PROTECTED FROM SLIDING AND PROVIDED WITH BITUMINOUS RAMPS.
4. TRENCH TO BE COMPACTED IN CONFORMANCE WITH ARTICLE 603.08(METHOD 3) OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

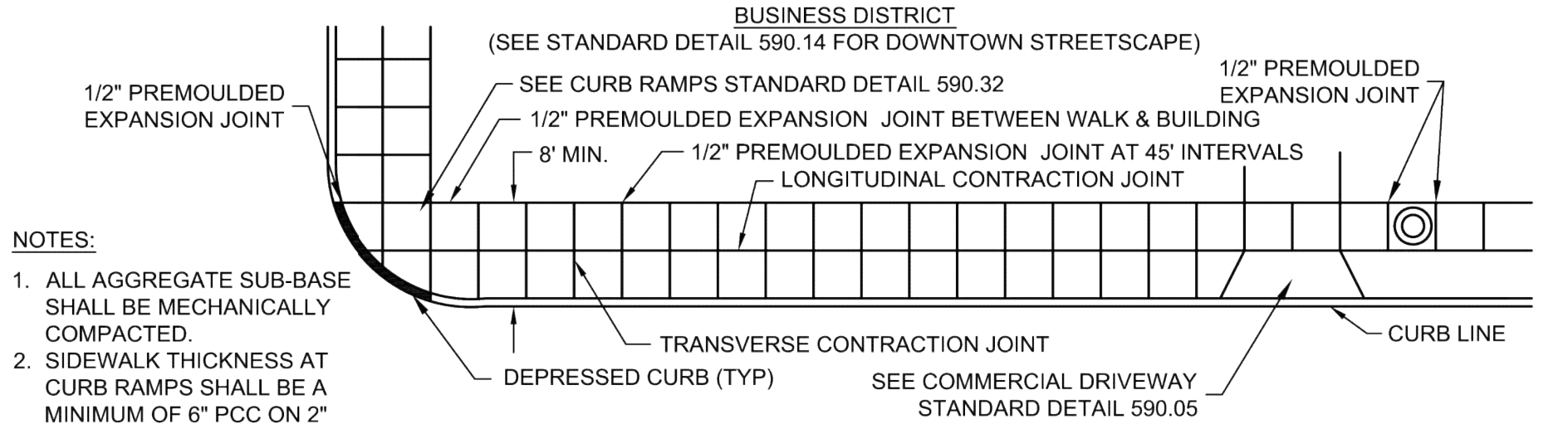
City of Naperville STANDARD DETAIL UTILITY TRENCH PAVING SECTION (FLEXIBLE PAVEMENTS) REVISIONS: 01/01/2013 SHEET 1 OF 1 PAVEMENT 13 **590.13**



**NOTES:**

1. THE COMPLETE REPAIR OF PAVEMENTS ADJACENT TO THE REPLACEMENT CONCRETE CURB AND GUTTER IS INCLUDED IN THE COST OF THE NEW CURB AND GUTTER.
2. CLASS SI CONCRETE SHALL BE POURED SEPARATELY FROM THE CURB ONCE THE FORM BOARDS HAVE BEEN REMOVED.

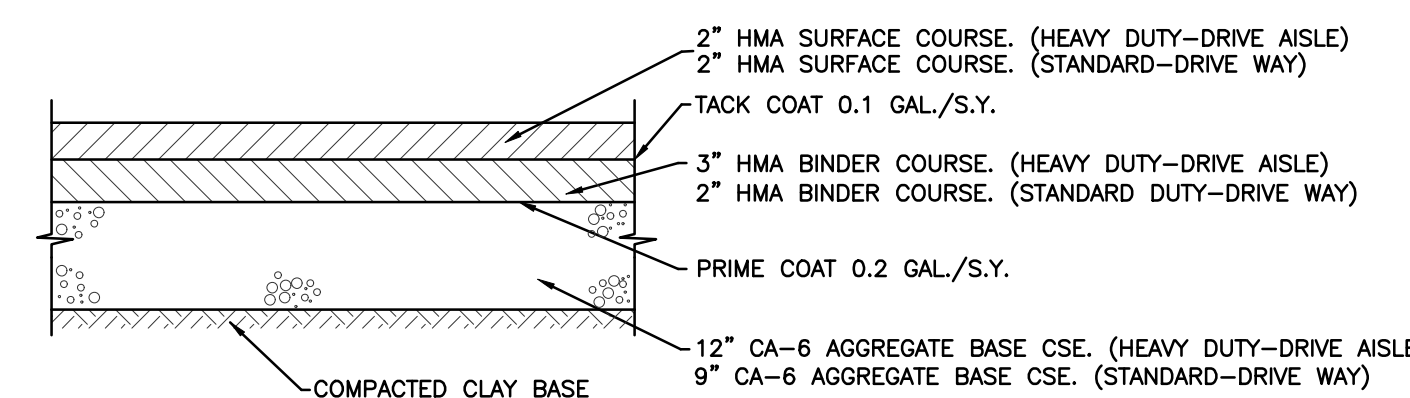
City of Naperville STANDARD DETAIL CURB REPLACEMENT REVISIONS: 05/15/2015 SHEET 1 OF 1 PAVEMENT 24 **590.24**



**NOTES:**

1. ALL AGGREGATE SUB-BASE SHALL BE MECHANICALLY COMPACTED.
2. SIDEWALK THICKNESS AT CURB RAMPS SHALL BE A MINIMUM OF 8" PCC ON 2" AGGREGATE SUB-BASE.
3. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
4. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

City of Naperville STANDARD DETAIL SIDEWALK CONSTRUCTION REVISIONS: 01/01/2013 SHEET 1 OF 1 PAVEMENT 31 **590.31**



**BITUMINOUS PAVEMENT DETAIL**  
NOT TO SCALE

NOTE: THE PAVEMENT DESIGN IS A RECOMMENDATION AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE SERVICES OF A SOILS ENGINEER TO CONFIRM PROPER SUBGRADE AND PAVEMENT DESIGN BASED ON SITE SPECIFIC CONDITIONS FOR PARKING LOT, CURBS, SIDEWALKS, BUILDING, ETC.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/14/20	KF	CITY COMMENTS	10/13/20	KF	CITY COMMENTS
9/18/20	KF	CITY COMMENTS			
9/24/20	KF	CITY COMMENTS			
10/7/20	KF	CITY COMMENTS			

DRAWN BY: KF  
CHECKED BY: NV  
APPROVED BY: NV



35701 WEST AVENUE, SUITE 150  
WARRENVILLE, ILLINOIS 60555  
PHONE (630) 393-3060  
FAX (630) 393-2152

10 S. RIVERSIDE PLAZA, SUITE 875  
CHICAGO, ILLINOIS 60606  
PHONE (312) 474-7841  
FAX (312) 474-6099

2416 GALEN DRIVE  
CHAMPAIGN, ILLINOIS 61821  
PHONE (217) 351-6268  
FAX (217) 355-1902

**RAM WEST CAPITAL LLC  
IN PARTNERSHIP WITH  
DJK CUSTOM HOMES**

TITLE:	<b>DETAILS HERITAGE PLACE NAPERVILLE, ILLINOIS</b>	SCALE:	N.T.S.
		DATE:	07/15/2020
		JOB NO.:	W20052
		SHEET:	9 OF 9

PROFESSIONAL DESIGN FIRM NUMBER: 184.001186