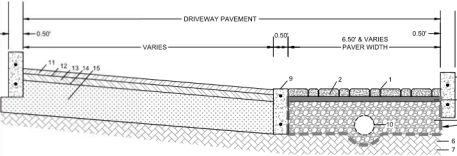
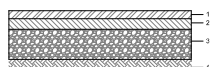


City of Naperville
STANDARD
SANITARY SEWER MANHOLE
REVISION 08/2018 SHEET 1 OF 1
390.01



PERMEABLE PAVER DETAIL N.T.S.

1. ASTM No. 8 JOINT AGGREGATE (IC-16)
2. 3/8" PERMEABLE PAVERS (COLOR AND FINISH TO BE APPROVED BY OWNER) (MATERIAL SPECIFICATIONS)
3. 2" L-LEVELING COURSE (IC-16)
4. 1/2" AGGREGATE BASE COURSE (IC-16) 95% STD PROCTOR (90% MINIMUM)
5. NONWOVEN GEOTEXTILE FABRIC
6. COMPACTED SUBGRADE (IC-16) (95% PROCTOR)
7. IF SOIL UNDERCUTTING IS REQUIRED, REPLACE SOIL WITH AGGREGATE BASE COURSE (IC-16)
8. 4" CHAIN BARBER CURB TO CONTAIN PAVERS WITH TWO (2) 1/4" HORIZONTAL STEEL BARS, PROVIDE 2" C&G SUBGRADE BENEATH CONCRETE
9. 4" CHAIN CONCRETE BARRIER TO CONTAIN PAVERS WITH TWO (2) 1/4" HORIZONTAL STEEL BARS, PROVIDE 2" C&G SUBGRADE BENEATH CONCRETE
10. 4" CHAIN BARRIER PERFORATED SUBSON DRAINAGE, ASTM F 191 WITH AN OVERLAP OF 1/8" WHEN THE FILTER FABRIC IS PLACED WITH C&G FILTER FABRIC SHALL HAVE A CLEARANCE OF 4 INCHES MINIMUM FROM THE OUTSIDE OF THE PERFORATED BARRIER
11. 2" HMA SURFACE COURSE (IC-16)
12. PRIME COAT (241 GALS/100)
13. 2" HMA SURFACE COURSE (IC-16)
14. PRIME COAT (241 GALS/100)
15. 1/2" COMPACTED AGGREGATE: TYPE B BASE COURSE (IC-16) 95% PROCTOR



TYPICAL PAVEMENT SECTION (HMA) N.T.S.

1. 2" HMA SURFACE COURSE, MIX 0 N90
2. 2" HMA BINDER COURSE, 1L-12.5, N90
3. 1/2" COMPACTED AGGREGATE BASE COURSE, TYPE B
4. COMPACTED SUBGRADE, 95% MODIFIED PROCTOR

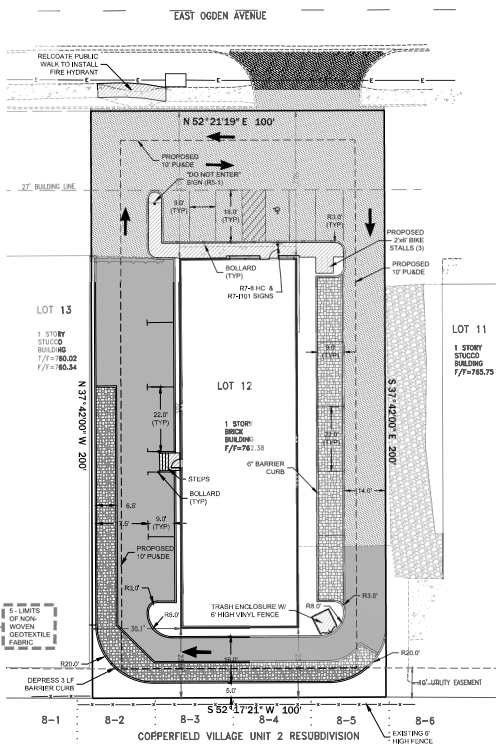
NOTES:
1. ALL COMPACTION SHALL BE 95% MAXIMUM DRY DENSITY, AS DETERMINED BY MODIFIED PROCTOR TEST, ASTM D1557.
2. SMA-1/2"

SITE AREA STATISTICS

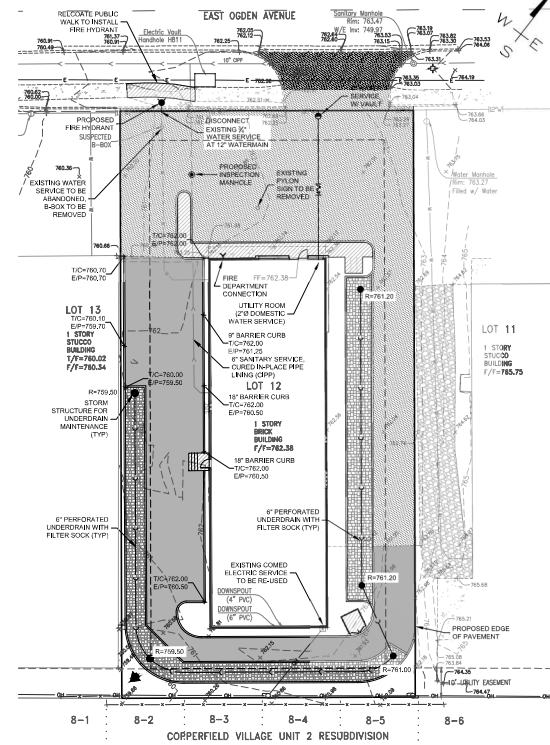
TOTAL OWNERSHIP AREA:	20,005 SF	0.46 AC
OVERALL DISTURBED / DEVELOPMENT AREA:	20,005 SF	0.46 AC

	DEVELOPMENT AREA STATISTICS			
	EXISTING CONDITIONS (SF)	EXISTING CONDITIONS (AC)	PROPOSED CONDITIONS (SF)	PROPOSED CONDITIONS (AC)
PERVIOUS (GRASSED) AREA	6,756	0.15	2,149	0.05
PERMEABLE PAVERS BMP AREA	0.00	0.00	2,106	0.05
IMPERVIOUS (WET POND INFL) AREA	0	0.00	0	0.00
IMPERVIOUS (BUILDING) AREA	5,035	0.13	5,035	0.12
IMPERVIOUS (PAVEMENT & CURB) AREA	8,214	0.19	10,655	0.24
TOTAL AREA	20,005	0.46	20,005	0.46
TOTAL IMPERVIOUS AREA	13,249	0.32	15,690	0.37
PERCENT IMPERVIOUS		66.2%		78.4%
NET NEW IMPERVIOUS			2,441	

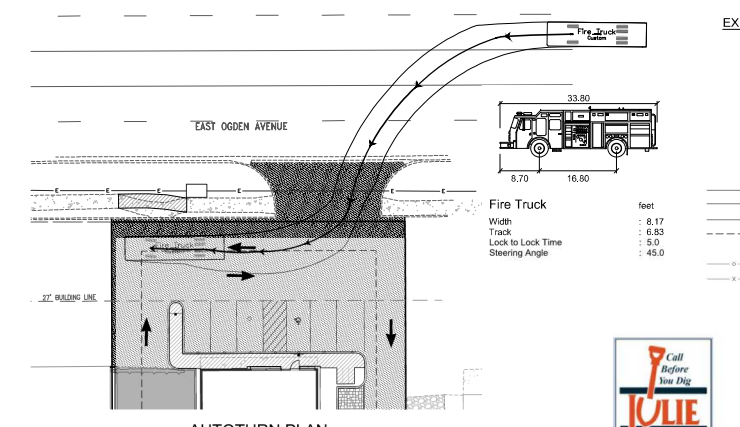
PARKING SUMMARY
PARKING PROVIDED = 16 STALLS INCLUDING 1 HC SPACE



GEOMETRY PLAN



GRADING AND UTILITY PLAN



AUTOTURN PLAN



LOCATION MAP

BENCHMARKS
BENCHMARK:
NAPERVILLE 705 RESET LOCATION 48'
SOUTHEASTERLY OF OGDEN AVENUE AND 84' WEST
OF COLUMBIA AVENUE
ELEVATION: 734.1 (NAVD 88)
SITE BENCHMARK:
TAG BOLT OF FIRE HYDRANT APPROXIMATELY 120'
NORTHEASTERLY FROM THE NORTHEASTERLY
CORNER OF SURVEYED PARCEL.
ELEVATION: 768.34 (NAVD 88)

LEGAL DESCRIPTION
LOT 12 IN NAPER TERRACE, A SUBDIVISION OF LOT 1
OF ASSESSMENT PLAT OF PART OF SECTION 8,
TOWNSHIP 38 NORTH, RANGE 10 EAST OF THE
THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE
PLAT OF SAID NAPER TERRACE RECORDED APRIL
17, 1951 AS DOCUMENT NO. 839229 IN DUPAGE
COUNTY, ILLINOIS,
P.I.N.
08-08-300-003

- LEGEND**
- PROPOSED PERMEABLE PAVERS (2,166 SF)
 - PROPOSED HMA PAVEMENT (416 SF)
 - PROPOSED CONCRETE SIDEWALK (621 SF)
 - PROPOSED MILL AND RESURFACE (752 SY)

- LEGEND**
- EXISTING: FLARED END SECTION, STORM MANHOLE, STREET LIGHT, CATCH BASIN, FIRE HYDRANT, VALVE AND VAULT, VALVE BOX, B BOX, SANITARY MANHOLE, STREET LIGHT, STORM SEWER, WATERMAIN, SANITARY SEWER CONTOUR, SILT FENCE, ALUMINUM FENCE, WOOD FENCE, OVERLAND FLOOD ROUTE
 - PROPOSED: (various symbols for structures and features)

NOTES:
1. EXISTING SITE TOPOGRAPHY COMPLETED BY DLZ INDUSTRIAL SURVEYING PER FIELD WORK COMPLETED ON APRIL 8, 2022 AND APRIL 21, 2022.
2. THE DPUE ENGINEER FOR THIS PROJECT IS ERIC MKSZTA, PLEASE CONTACT HIM AT (815) 420-6180 WITH ANY QUESTIONS REGARDING THE ELECTRIC SERVICE.
3. NO ENCROACHMENTS ARE ALLOWED IN THE UTILITY EASEMENTS.
4. DPUE REQUIRES A MINIMUM 2' OF SEPARATION BETWEEN ITS ELECTRIC FACILITIES AND ANY FIRE HYDRANTS, STORM DRAINS, STORM SEWERS, WATER MAINS, GAS MAINS, ETC. THAT RUN PARALLEL TO ITS FACILITIES.

Civil Engineering & Land Development Consulting
20316 Mapleview Drive
Plainfield, IL 60585
815.577.7707 T 815.577.2505 F
www.cookengr.com

COOK ENGINEERING GROUP

REV	DATE	DESCRIPTION
1	08/02/22	PER CITY REVIEW DATED 08/22/22
2	07/29/22	PER CITY REVIEW
3	07/29/22	PERMS
4	08/02/22	PER CITY REVIEW DATED 08/02/22

PREPARED FOR
APEX DESIGN BUILD, INC
9550 W HIGGINS RD, STE 170
ROSEMONT, IL 60018
847-560-1784 (T)

MR. JASON BERGERWIFF

CEG JOB NUMBER
2022-109

SCALE: 1" = 20'

DRAWN BY: CNW

CHECKED BY: MDC

DATE: 04/28/2022

SHEET: 1 of 1
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