

EXISTING
MEDICAL
BUILDING

LOT 18, DIEKMAN'S
SUBDIVISION

ASPHALT
PAVEMENT

LOT 5, SUNSET RIDGE
SUBDIVISION UNIT 2

LOT 2

EXISTING
TACO BELL

ASPHALT
PAVEMENT

ASPHALT
PAVEMENT

ASPHALT PAVEMENT
TWO-WAY TRAFFIC

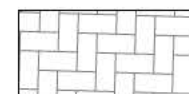
SIBLEY BLVD.
(80' PUBLIC R.O.W.)

EMERGENCY OVERLAND
FLOOD FLOW ROUTE

OVERFLOW VIA BAFFLE
MANHOLE STRUCTURE

PROPOSED
RETAIL
BUILDING
7,200 S.F.
F.F. 609.00

LEGEND



PAVER AREA = 0.07 AC.



IMPERVIOUS AREA = 0.763 AC.
IMPERVIOUS AREA = 0.693 AC. (LESS PAVER AREA)



PERVIOUS AREA = 0.097 AC.
PERVIOUS AREA = 0.167 AC. (W/ PAVER AREA)

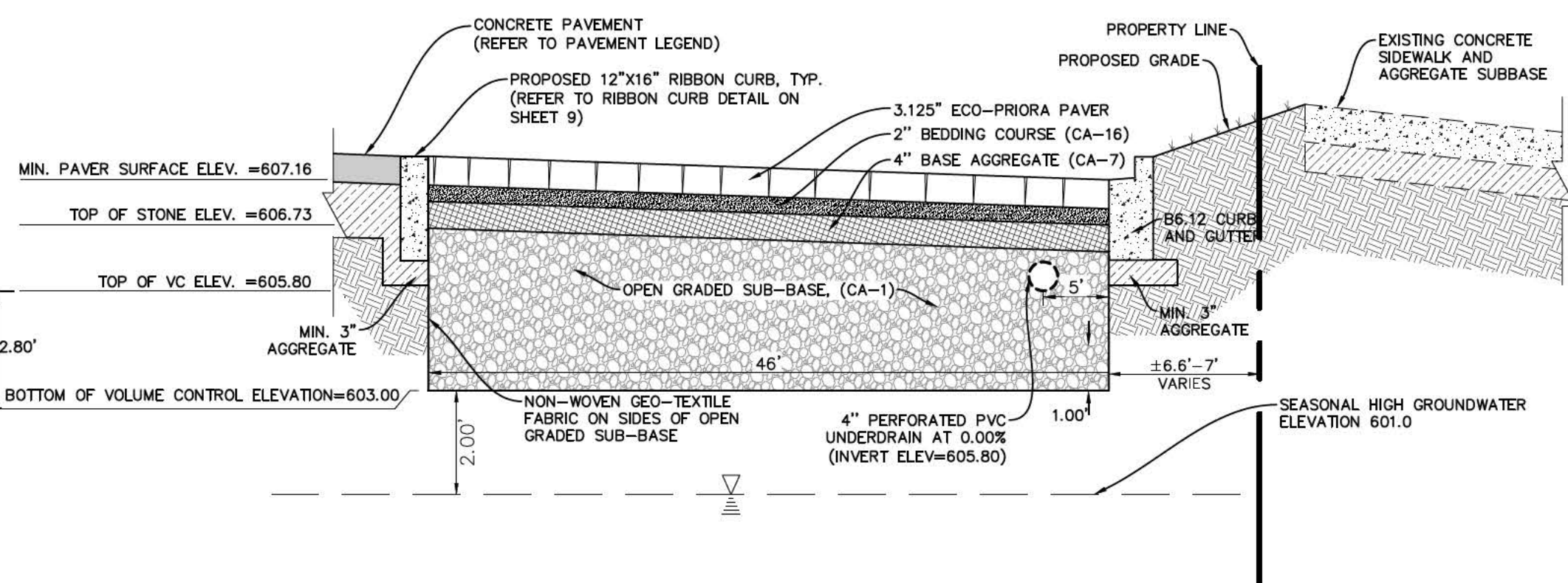
MWRD Permeable Paver Volume Control Calculations

10/30/2019

| | | Paver Area (sq. feet) | Depth (ft) | Media Volume (cubic ft.) | Porosity | Storage Volume (cubic feet) |
|--|------------|--------------------------|------------|--------------------------------|----------|-----------------------------------|
| Site Impervious Area: | 33235 | | | | | |
| Site Impervious Area (Less Paver Area) | 30174 | | | | | |
| Vol Control Req: (Excluding Paver Area) | 2504.44 | | | | | |
| Vol Control Req: | 0.057 | | | | | 3085.49 |
| Paver Area (East V.C.): | 3061 | | | | | |
| Coarse Aggregate Depth | 2.80 | | | | | 2504.44 |
| Coarse Aggregate Porosity | 0.36 | | | | | |
| VC HWL = 605.80 | Depth=2.80 | | | | | |
| VC Bottom = 603.00 | | | | | | |
| | | | | | | Meets volume control requirement? |
| | | | | | | Yes |

VOLUME CONTROL - CROSS SECTION (A-A)

N.T.S.



VOLUME CONTROL REQUIREMENT

| | |
|----------------------|--|
| SITE AREA | 0.86 S.F. |
| SITE IMPERVIOUS AREA | 0.693 ACRES |
| VOL CONTROL REQUIRED | $=(0.693) \times (0.083)$ $=0.0575$ AC-FT $=2,504.44$ CF |
| VOL CONTROL PROVIDED | $=3,085.49$ CF |

MAINTENANCE SUMMARY

GENERAL

REGULAR INSPECTIONS AND ROUTINE MAINTENANCE OF GENERAL AREAS SHALL BE PERFORMED ON A MONTHLY OR AS-NEEDED BASIS. SPECIFIC ITEMS OF CONCERN INCLUDE:

- LITTER AND DEBRIS SHALL BE CONTROLLED
- LANDSCAPED AREAS SHALL BE MAINTAINED WITH REGULAR MOWING AND RESTORED WITH APPROPRIATE SEEDING/VEGETATION AS NECESSARY
- ACCUMULATED SEDIMENT SHALL BE DISPOSED OF PROPERLY, ALONG WITH ANY WASTES GENERATED DURING MAINTENANCE OPERATIONS

STORMWATER MANAGEMENT FACILITIES

ALL COMPONENTS OF THE STORMWATER MANAGEMENT FACILITIES SHALL BE CHECKED MONTHLY BETWEEN MARCH AND NOVEMBER AND MAINTAINED AS NECESSARY TO ENSURE PROPER PERFORMANCE. IT IS CRITICAL THAT ALL INFLOWS AND OUTFLOWS TO THE DETENTION FACILITY ARE CLEAN AND PERFORMING AS DESIGNED. IN ADDITION, THE DESIGN VOLUME OF THE DETENTION FACILITY SHALL ALSO BE MAINTAINED. INSPECTIONS FOR THE FOLLOWING SPECIFIC ITEMS SHOULD BE CONDUCTED MONTHLY BETWEEN MARCH AND NOVEMBER:

- VEGETATED AREAS
 - REGULAR MOWING TO CONTROL VEGETATION
 - NEED FOR PLANTING, RESEEDING OR SODDING.

VOLUME CONTROL FACILITY

ROUTINE INSPECTIONS AND MAINTENANCE OF VOLUME CONTROL FACILITIES SHALL BE PERFORMED BY THE OWNER ON A YEARLY OR AS-NEEDED BASIS. FACILITY SHALL BE INSPECTED YEARLY USING THE MONITORING WELL TO VERIFY THE SYSTEM IS FUNCTIONING PROPERLY.

STORMWATER COLLECTION SYSTEM

THE OWNER SHALL PERFORM MONTHLY INSPECTIONS OF ALL COMPONENTS OF THE STORMWATER COLLECTION SYSTEM. THE MONTHLY INSPECTION SHALL OCCUR BETWEEN MARCH AND NOVEMBER AND INCLUDE THE FOLLOWING SPECIFIC AREAS OF CONCERN:

- STORM INLETS/MANHOLE
- REMOVE ACCUMULATED LEAVES AND OTHER DEBRIS FROM GRATES
- RESET COVERS/LIDS ON AS-NEEDED BASIS
- REMOVE ACCUMULATED SEDIMENT FROM MANHOLE BOTTOM WHEN 50% OF SUMP IS FILLED
- STORM SEWERS/CULVERTS
- VISUALLY INSPECT PIPES BY REMOVING MANHOLE LIDS, MAKE REPAIRS AS NECESSARY
- SEWERS AND CULVERTS SHALL BE CHECKED FOR SILTATION DEPOSITS AT INLETS, OUTLETS, AND WITHIN THE CONDUIT, CLEAN OUT AS NECESSARY
- OVERLAND FLOW ROUTES (DITCHES/SWALES)
- ANNUAL VISUAL INSPECTIONS SHALL BE PERFORMED THAT VERIFY THE DESIGN CAPACITY OF THE OVERLAND FLOW ROUTES IS MAINTAINED. THE SLOPE AND CROSS-SECTIONAL AREA OF THE DITCH/SWALE SHALL BE VERIFIED DURING THIS INSPECTION. REMOVE ANY OBSTRUCTIONS THAT HAVE BEEN PLACED IN THE DRAINAGE PATH
- SEED AND SOO ANY ERODED AREAS
- REPAIRS TO PROVIDE POSITIVE DRAINAGE AS NECESSARY
- REGULAR MOWING TO CONTROL VEGETATION

QUALIFIED SEWER CONSTRUCTION

- PERFORM MANHOLE INSPECTIONS ONCE EVERY FIVE YEARS, MAKE REPAIRS AS NECESSARY.
- PERFORM SEWER INSPECTIONS ONCE EVERY FIVE YEARS, MAKE REPAIRS AS NECESSARY.
- PERFORM REGULAR CLEANING SO THAT EACH SEWER SEGMENT IS CLEANED ONCE EVERY 5 YEARS.
- REMOVE ANY OBSTRUCTIONS PLACED IN MAINTENANCE EASEMENTS THAT MAY IMPEDE MAINTENANCE EQUIPMENT ACCESS.

PROPOSED RETAIL DEVELOPMENT

VILLAGE OF DOLTON, ILLINOIS

MWRD EXHIBIT

PROJ MGR: TTR
PROJ ASSOC: JRC
DRAWN BY: MH
DATE: 08-05-19
SCALE: 1"=20'

SHEET

7 OF 13

AETD0101