

GENERAL NOTES

- THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED.
 - STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, 6TH EDITION (SSSWCW)
 - THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION
 - WDNR STORMWATER RUNOFF TECHNICAL STANDARDS.
 - WISDOT PAL APPROVED EROSION CONTROL MEASURES LIST, LATEST EDITION.
 - VILLAGE OF HARTLAND TECHNICAL STANDARDS.
- THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MINIMIZE EROSION, WATER POLLUTION AND SILTATION CAUSED BY CONSTRUCTION OF THIS PROJECT. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
- EROSION CONTROL PLAN: PRIOR TO BEGINNING WORK, AN APPROVED EROSION CONTROL PLAN WILL BE PROVIDED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY IMPLEMENTING THE APPROVED PLAN.
- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY FLOOR, CURB OR PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (CALL DIGGERS HOTLINE AT 800-242-8511). COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- EXISTING UTILITY INFORMATION IS SHOWN FROM SURVEY WORK, FIELD OBSERVATIONS, AVAILABLE PUBLIC RECORDS, AND AS-BUILT DRAWINGS. EXACT LOCATIONS AND ELEVATIONS OF UTILITIES SHALL BE DETERMINED PRIOR TO INSTALLING NEW WORK. EXCAVATE TEST PITS AS REQUIRED.
- PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ENGINEER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF PERFORMING ANY CONSTRUCTION.
- ALL TRENCHING SHALL BE PERFORMED ACCORDING TO OSHA STANDARDS.
- ALL ITEMS SHALL INCLUDE ALL THE NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
- THE CONTRACTOR SHALL CLEAN ALL ADJACENT STREETS OF ANY SEDIMENT OR DEBRIS BY SWEEPING BEFORE THE END OF THE WORKING DAY OR AS REQUIRED BY THE VILLAGE OF HARTLAND.
- THE CONTRACTOR MUST AND IS REQUIRED TO NOTIFY THE VILLAGE OF HARTLAND SEWER AND WATER UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF WATER MAIN FILLING, WATER MAIN FLUSHING, WATER MAIN TESTING AND WATER MAIN CONNECTIONS. NO CONNECTION SHALL BE MADE TO THE EXISTING WATER SYSTEM UNTIL SAFE SAMPLES FROM THE NEW MAIN HAVE BEEN OBTAINED.

HARTLAND SENIOR LIVING

SENIOR LIVING COMMUNITY

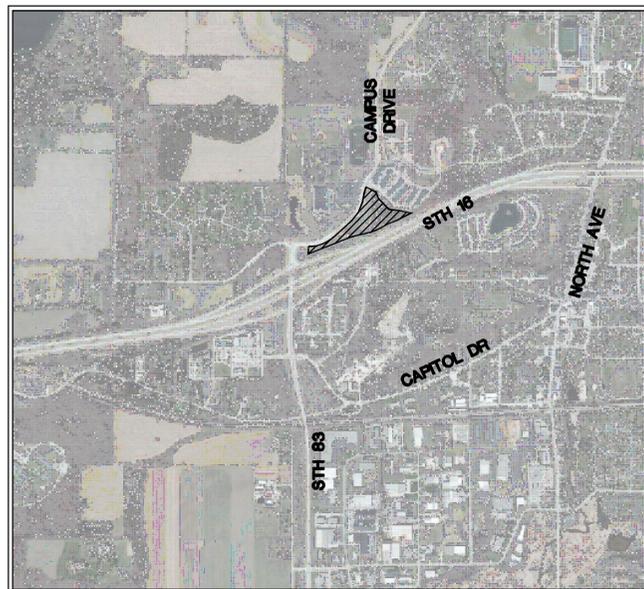
SITE DEVELOPMENT PLANS

VILLAGE OF HARTLAND, WISCONSIN



SITE PLAN

SCALE: 1" = 200'



LOCATION MAP

NOT TO SCALE



4100 N. CALHOUN RD., SUITE 300
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: jpudelko@trioeng.com

PROJECT:
HARTLAND SENIOR LIVING
VILLAGE OF HARTLAND, WISCONSIN
BY: THREE LEAF PARTNERS
504 W. JUNEAU AVE.
MILWAUKEE, WI 53203

REVISION HISTORY

DATE	DESCRIPTION
07/01/24	INITIAL SUBMITTAL
08/12/24	PC SUBMITTAL
10/09/24	FINAL PLAN SET

DATE:
OCTOBER 9, 2024

JOB NUMBER:
24-29-1138

DESCRIPTION:
COVER SHEET

SHEET

T1

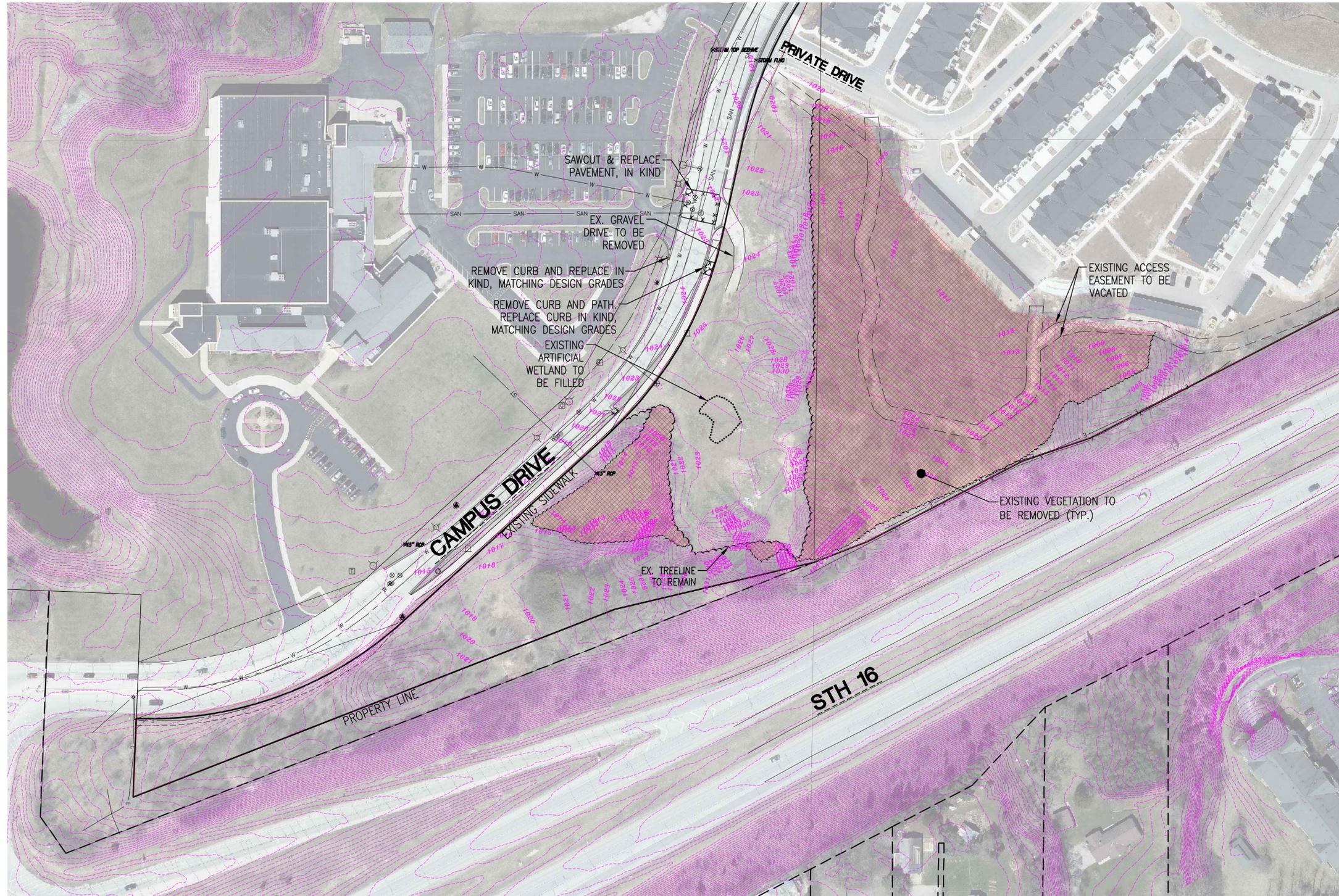
ENGINEER:
TRIO ENGINEERING, LLC
4100 N CALHOUN ROAD, SUITE 300
BROOKFIELD, WI 53005
CONTACT: MR. JOSHUA PUDELKO, P.E., M.S.
PHONE: 262-790-1480
FAX: 262-790-1481
EMAIL: jpudelko@trioeng.com

SHEET INDEX

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X:\2024\24-29-1138 HARTLAND SENIOR LIVING FOR THREE LEAF PARTNERS\CONSTRUCTION PLANS\HARTLAND SEN. LIVING_CIVIL_PLAN_SET_22X34.DWG



0 40 80 160
 SCALE: 1" = 80' (22"x34")
 SCALE: 1" = 160' (11"x17")



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NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

LEGEND:

850	EXISTING CONTOUR
SAN	EXISTING SANITARY SEWER
○	EXISTING SANITARY MANHOLE
W	EXISTING WATER MAIN
⊕	EXISTING HYDRANT
ST	EXISTING STORM SEWER
○	EXISTING STORM MANHOLE
□	EXISTING STORM INLET
G	EXISTING GAS MAIN
OW	EXISTING OVERHEAD WIRE
⊞	EXISTING TRANSFORMER
⊞	EXISTING ELECTRIC PEDESTAL
T	EXISTING TELEPHONE LINE
⊞	EXISTING TELEPHONE PEDESTAL
⊞	EXISTING CATV PEDESTAL
⊞	EXISTING POWER POLE



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DESCRIPTION:
 EXISTING SITE PLAN

SHEET
C1.0

SITE DATA

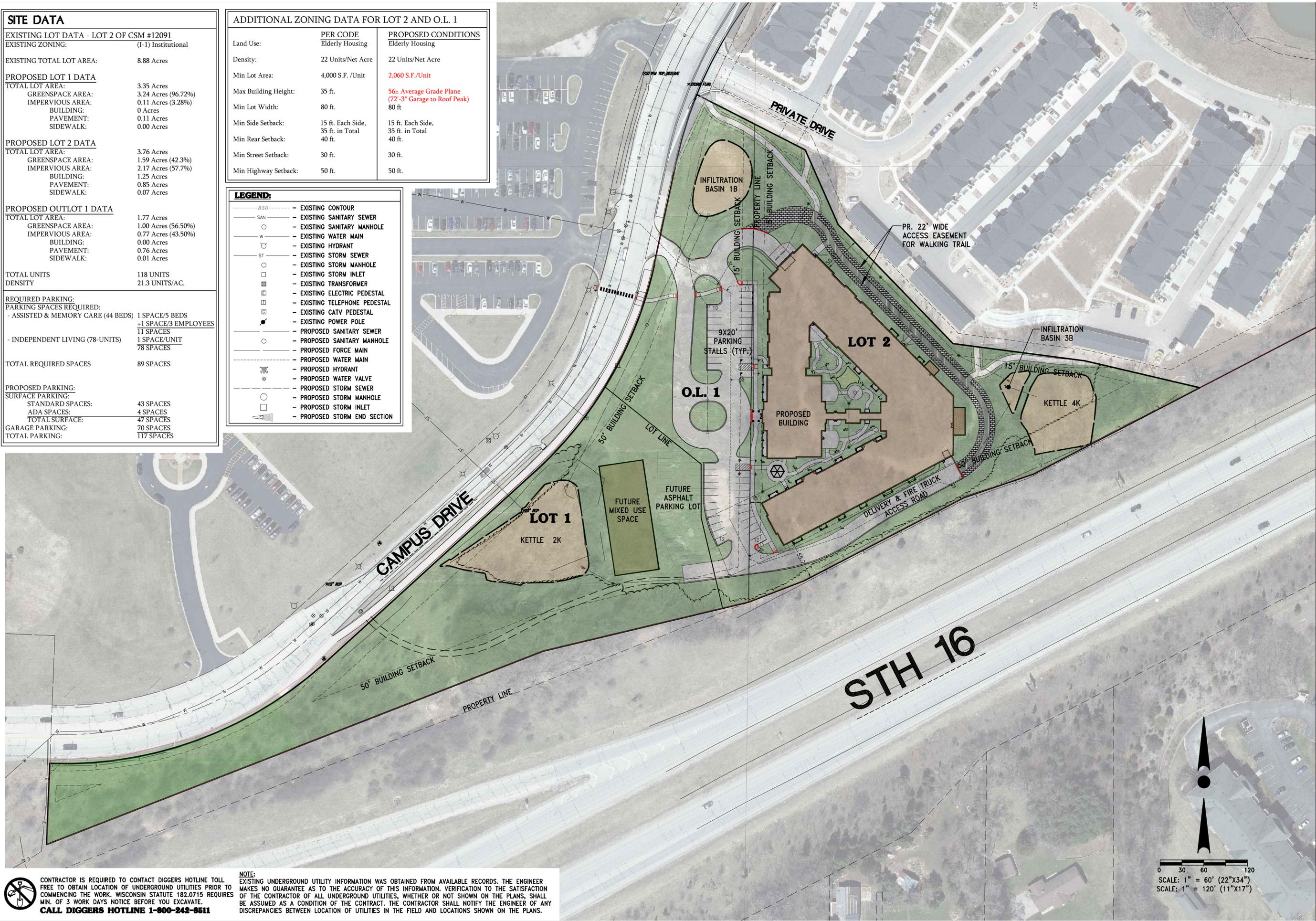
EXISTING LOT DATA - LOT 2 OF CSM #12091	
EXISTING ZONING:	(I-1) Institutional
EXISTING TOTAL LOT AREA:	8.88 Acres
PROPOSED LOT 1 DATA	
TOTAL LOT AREA:	3.35 Acres
GREENSPACE AREA:	3.24 Acres (96.72%)
IMPERVIOUS AREA:	0.11 Acres (3.28%)
BUILDING:	0 Acres
PAVEMENT:	0.11 Acres
SIDEWALK:	0.00 Acres
PROPOSED LOT 2 DATA	
TOTAL LOT AREA:	3.76 Acres
GREENSPACE AREA:	1.59 Acres (42.3%)
IMPERVIOUS AREA:	2.17 Acres (57.7%)
BUILDING:	1.25 Acres
PAVEMENT:	0.85 Acres
SIDEWALK:	0.07 Acres
PROPOSED OUTLOT 1 DATA	
TOTAL LOT AREA:	1.77 Acres
GREENSPACE AREA:	1.00 Acres (56.50%)
IMPERVIOUS AREA:	0.77 Acres (43.50%)
BUILDING:	0.00 Acres
PAVEMENT:	0.76 Acres
SIDEWALK:	0.01 Acres
TOTAL UNITS	118 UNITS
DENSITY	21.3 UNITS/AC.
REQUIRED PARKING:	
PARKING SPACES REQUIRED:	
- ASSISTED & MEMORY CARE (44 BEDS)	1 SPACE/5 BEDS
	+1 SPACE/3 EMPLOYEES
	11 SPACES
- INDEPENDENT LIVING (78-UNITS)	1 SPACE/UNIT
	78 SPACES
TOTAL REQUIRED SPACES	89 SPACES
PROPOSED PARKING:	
SURFACE PARKING:	
STANDARD SPACES:	43 SPACES
ADA SPACES:	4 SPACES
TOTAL SURFACE:	47 SPACES
GARAGE PARKING:	70 SPACES
TOTAL PARKING:	117 SPACES

ADDITIONAL ZONING DATA FOR LOT 2 AND O.L. 1

Land Use:	PER CODE Elderly Housing	PROPOSED CONDITIONS Elderly Housing
Density:	22 Units/Net Acre	22 Units/Net Acre
Min Lot Area:	4,000 S.F./Unit	2,060 S.F./Unit
Max Building Height:	35 ft.	56± Average Grade Plane (72'-3" Garage to Roof Peak)
Min Lot Width:	80 ft.	80 ft
Min Side Setback:	15 ft. Each Side, 35 ft. in Total	15 ft. Each Side, 35 ft. in Total
Min Rear Setback:	40 ft.	40 ft.
Min Street Setback:	30 ft.	30 ft.
Min Highway Setback:	50 ft.	50 ft.

LEGEND:

--- 850 ---	- EXISTING CONTOUR
- SAN -	- EXISTING SANITARY SEWER
○	- EXISTING SANITARY MANHOLE
- W -	- EXISTING WATER MAIN
○	- EXISTING HYDRANT
- ST -	- EXISTING STORM SEWER
○	- EXISTING STORM MANHOLE
□	- EXISTING STORM INLET
□	- EXISTING TRANSFORMER
□	- EXISTING ELECTRIC PEDESTAL
□	- EXISTING TELEPHONE PEDESTAL
□	- EXISTING CATV PEDESTAL
□	- EXISTING POWER POLE
○	- PROPOSED SANITARY SEWER
○	- PROPOSED SANITARY MANHOLE
---	- PROPOSED FORCE MAIN
---	- PROPOSED WATER MAIN
○	- PROPOSED HYDRANT
○	- PROPOSED WATER VALVE
---	- PROPOSED STORM SEWER
---	- PROPOSED STORM MANHOLE
---	- PROPOSED STORM INLET
---	- PROPOSED STORM END SECTION



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DESCRIPTION:
PROPOSED
DEVELOPMENT
PLAN

SHEET

C1.1

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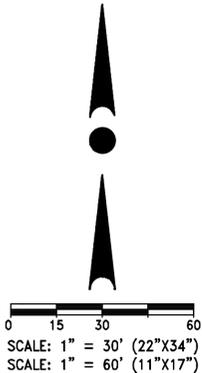
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PAVEMENT NOTE:
 ALL DRIVE AISLES SHALL BE HEAVY DUTY ASPHALT PAVEMENT AND ALL PARKING STALLS SHALL BE STANDARD DUTY ASPHALT PAVEMENT

LEGEND:	
---	EXISTING CONTOUR
---	EXISTING SANITARY SEWER
○	EXISTING SANITARY MANHOLE
---	EXISTING WATER MAIN
○	EXISTING HYDRANT
---	EXISTING STORM SEWER
○	EXISTING STORM MANHOLE
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⊕	EXISTING TRANSFORMER
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⊕	EXISTING TELEPHONE PEDESTAL
⊕	EXISTING CATV PEDESTAL
⊕	EXISTING POWER POLE
---	PROPOSED SANITARY SEWER
---	PROPOSED SANITARY MANHOLE
---	PROPOSED FORCE MAIN
---	PROPOSED WATER MAIN
⊕	PROPOSED HYDRANT
⊕	PROPOSED WATER VALVE
---	PROPOSED STORM SEWER
---	PROPOSED STORM MANHOLE
---	PROPOSED STORM INLET
---	PROPOSED STORM END SECTION



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DESCRIPTION:
 DETAILED SITE PLAN

SHEET

C1.2



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"AMERICANS WITH DISABILITIES ACT" (ADA) MINIMAL REQUIREMENTS:

- GENERAL CONTRACTOR TO BECOME FAMILIAR WITH AND APPLY THE ADA MINIMAL REQUIREMENTS AND REPORT TO ENGINEER ANY DISCREPANCIES BEFORE CONSTRUCTION.
- THE MINIMUM CLEAR WIDTH OF AN ACCESSIBLE ROUTE PER CODE IS 36".
- ALL PROPOSED SIDEWALKS SHALL HAVE A MAXIMUM OF 2.0% CROSS SLOPE AND A MAXIMUM OF 5.0% RUNNING SLOPE.
- THE GENERAL CONTRACTOR/CONTRACTOR SHALL MEASURE THE SUBGRADE AND ACROSS FORMS PRIOR TO INSTALLATION OF ASPHALT OR CONCRETE IMPROVEMENTS TO ASSURE THE FINAL IMPROVEMENTS WILL MEET THESE MINIMAL ADA REQUIREMENTS. ANY DISCREPANCIES SHALL BE REPORTED TO THE CIVIL ENGINEER PRIOR TO INSTALLATION OF THE IMPROVEMENTS.

RAMPS

- AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 (5.00%) IS A RAMP AND SHALL COMPLY WITH THE RAMP REQUIREMENTS.
- AN ACCESSIBLE ROUTE MAY CROSS OPEN PAVEMENT OR FOLLOW A RAMP AS REQUIRED BY SITE-SPECIFIC CONDITIONS. THE RUNNING SLOPE OF AN ACCESSIBLE ROUTE ACROSS OPEN PAVEMENT MUST NOT EXCEED 1:20 (5.00%), WITH A CROSS SLOPE NOT EXCEEDING 1:50 (2.00%). SLOPES EXCEEDING 1:20 (5.00%), BUT LESS THAN 1:12 (8.33%), CONSTITUTE RAMPS AND MUST CONFORM TO THE REQUIREMENTS FOR RAMP DESIGN (HANDRAILS, CURBS, LANDINGS, RISE AND RUN LIMITS, ETC.) AS DETAILED ON THE CIVIL AND ARCHITECTURAL PLANS. NO RAMP SHALL HAVE A RUNNING SLOPE EXCEEDING 1:12 (8.33%), NOR HAVE A CROSS SLOPE EXCEEDING 1:50 (2.00%).

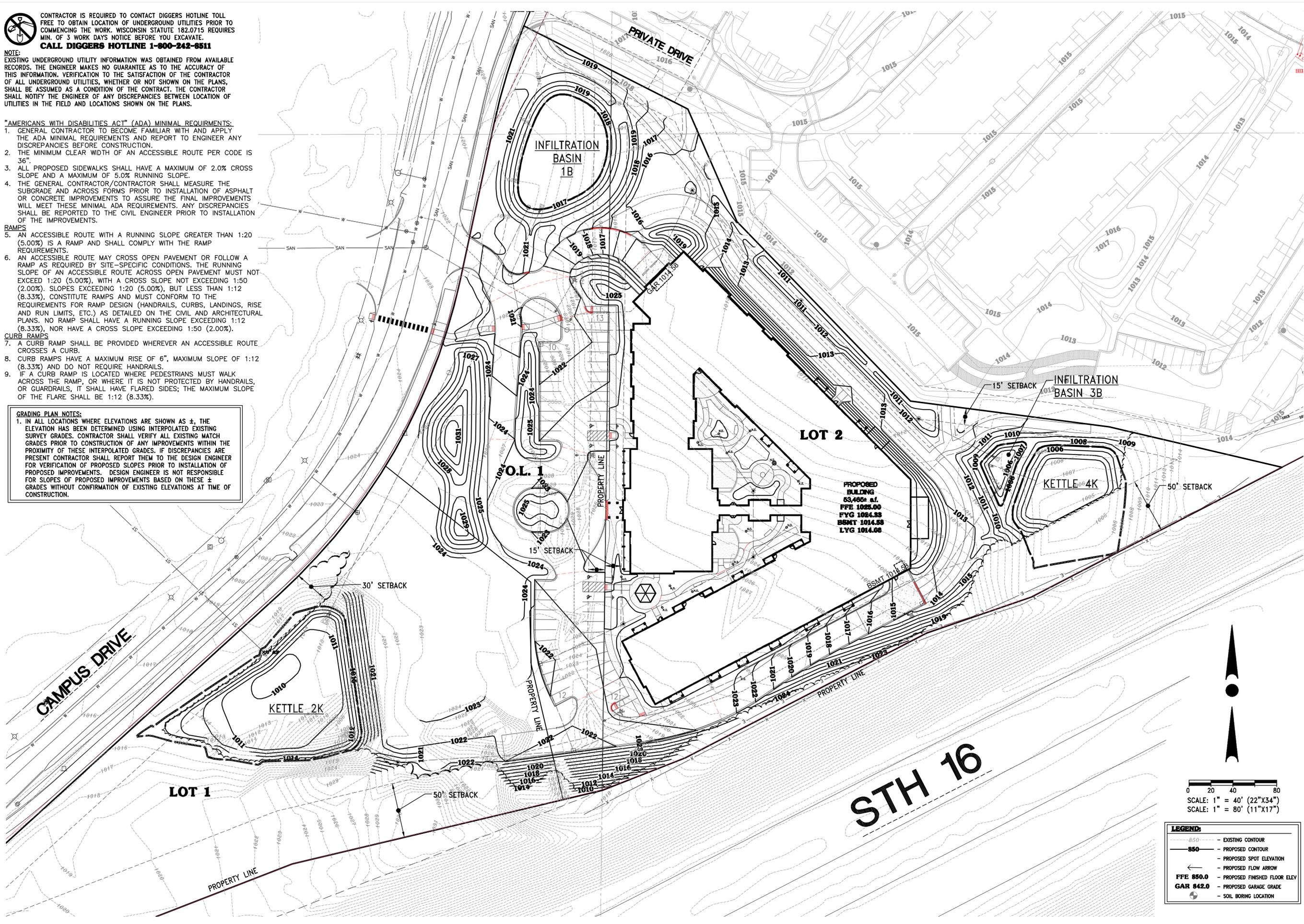
CURB RAMPS

- A CURB RAMP SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.
- CURB RAMPS HAVE A MAXIMUM RISE OF 6", MAXIMUM SLOPE OF 1:12 (8.33%) AND DO NOT REQUIRE HANDRAILS.
- IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS, OR GUARDRAILS, IT SHALL HAVE FLARED SIDES; THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:12 (8.33%).

GRADING PLAN NOTES:

- IN ALL LOCATIONS WHERE ELEVATIONS ARE SHOWN AS ±, THE ELEVATION HAS BEEN DETERMINED USING INTERPOLATED EXISTING SURVEY GRADES. CONTRACTOR SHALL VERIFY ALL EXISTING MATCH GRADES PRIOR TO CONSTRUCTION OF ANY IMPROVEMENTS WITHIN THE PROXIMITY OF THESE INTERPOLATED GRADES. IF DISCREPANCIES ARE PRESENT CONTRACTOR SHALL REPORT THEM TO THE DESIGN ENGINEER FOR VERIFICATION OF PROPOSED SLOPES PRIOR TO INSTALLATION OF PROPOSED IMPROVEMENTS. DESIGN ENGINEER IS NOT RESPONSIBLE FOR SLOPES OF PROPOSED IMPROVEMENTS BASED ON THESE ± GRADES WITHOUT CONFIRMATION OF EXISTING ELEVATIONS AT TIME OF CONSTRUCTION.

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SCALE: 1" = 40' (22"X34")
 SCALE: 1" = 80' (11"X17")

LEGEND:

- - - - - EXISTING CONTOUR
- — — — — PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED FLOW ARROW
- PROPOSED FINISHED FLOOR ELEV
- PROPOSED GARAGE GRADE
- ⊗ SOIL BORING LOCATION



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DESCRIPTION:
MASTER GRADING PLAN

SHEET

C2.0

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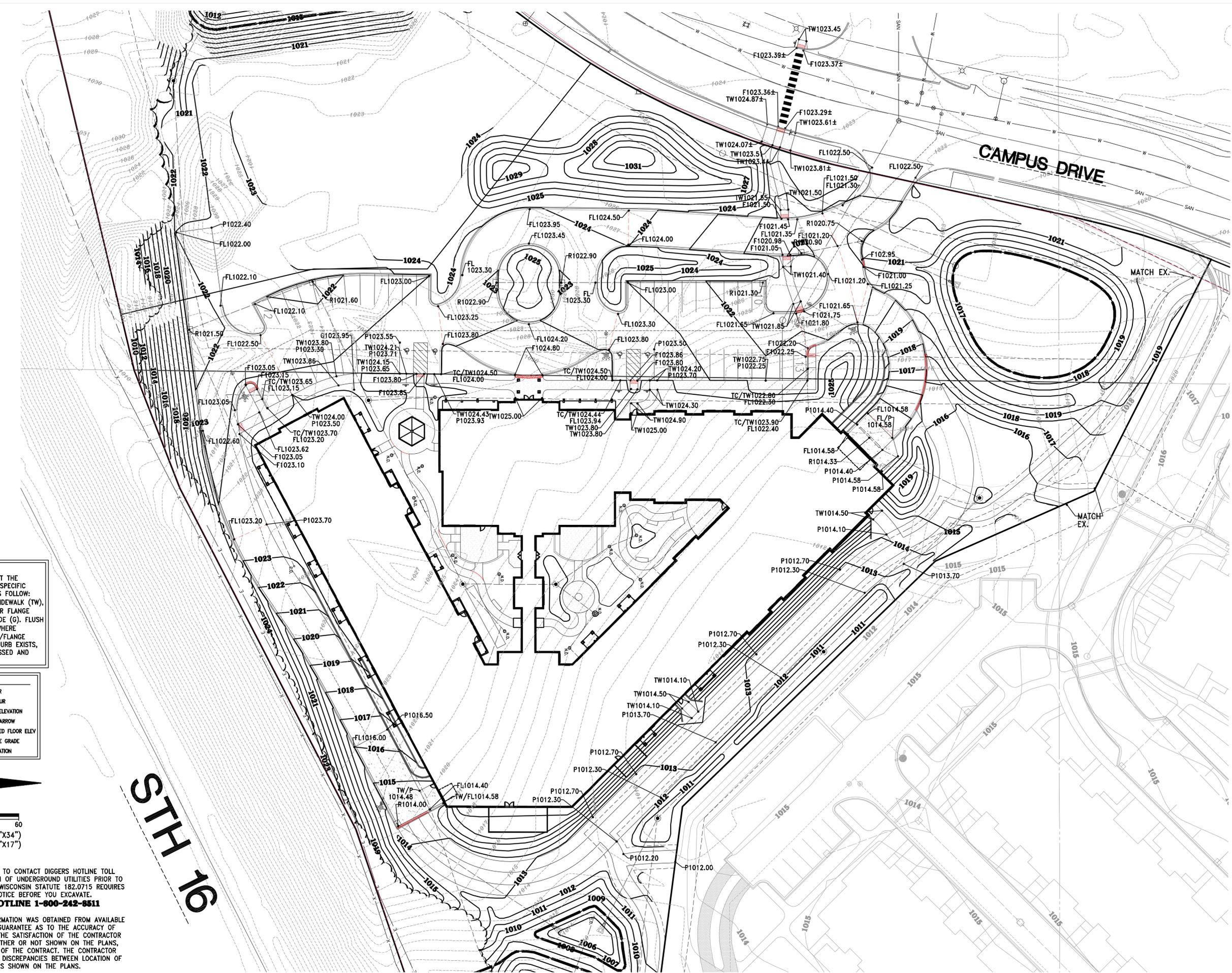
GRADE SPOT SHOT NOTE:
 1. SPOT GRADE PREFIX REPRESENT THE SURFACE ELEVATION AT EACH SPECIFIC POINT. EACH ARE DEFINED AS FOLLOW:
 TOP OF CURB (TC), TOP OF SIDEWALK (TW), PAVEMENT (P), CURB & GUTTER FLANGE GRADE (FL) AND GROUND GRADE (G). FLUSH GRADE (F) INDICATES AREAS WHERE SIDEWALK GRADE & PAVEMENT/FLANGE GRADES MATCH, AND WHERE CURB EXISTS, TOP OF CURB HEAD IS DEPRESSED AND MATCHES GRADE INDICATED.

LEGEND:
 - - - - - 850 - EXISTING CONTOUR
 - - - - - 850 - PROPOSED CONTOUR
 - - - - - PROPOSED SPOT ELEVATION
 ← - - - - - PROPOSED FLOW ARROW
 FFE 850.0 - PROPOSED FINISHED FLOOR ELEV
 GAR 842.0 - PROPOSED GARAGE GRADE
 ⊕ - SOIL BORING LOCATION

0 15 30 60
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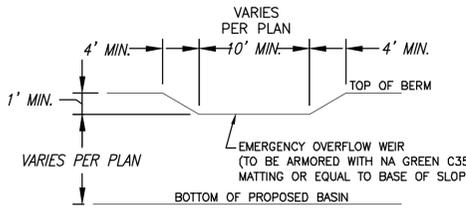
SHEET

C2.1



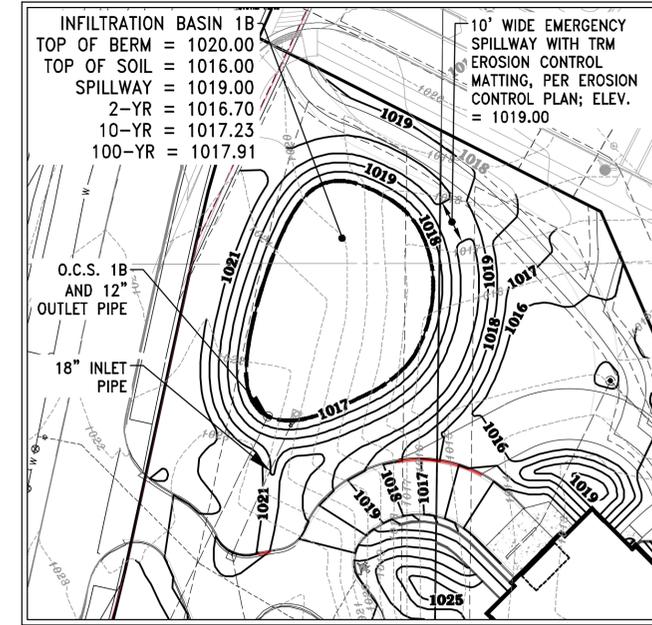
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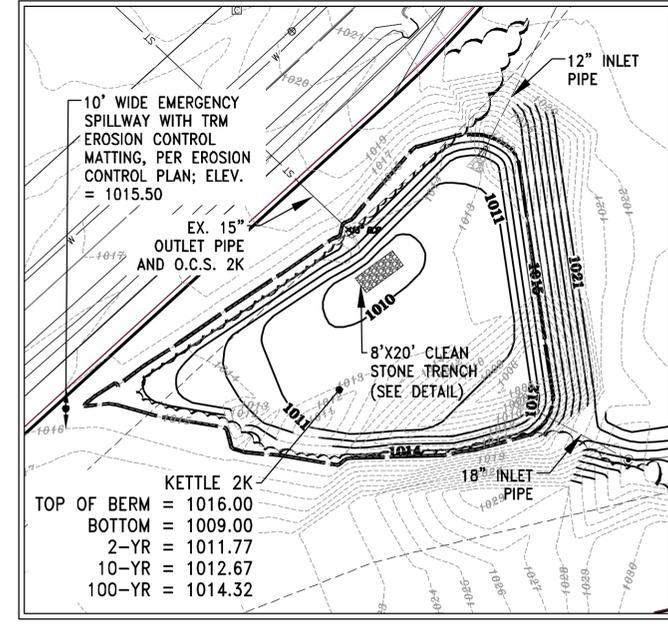
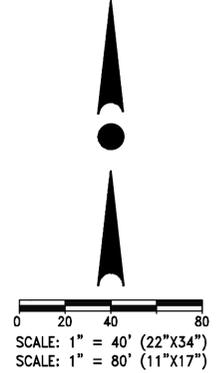


TYPICAL EMERGENCY OVERFLOW WEIR DETAIL
NOT TO SCALE
NOTE: GRADES FOR TOP OF BERM, OVERFLOW SPILLWAY, AND BOTTOM OF BASIN SHALL BE PER PLAN.

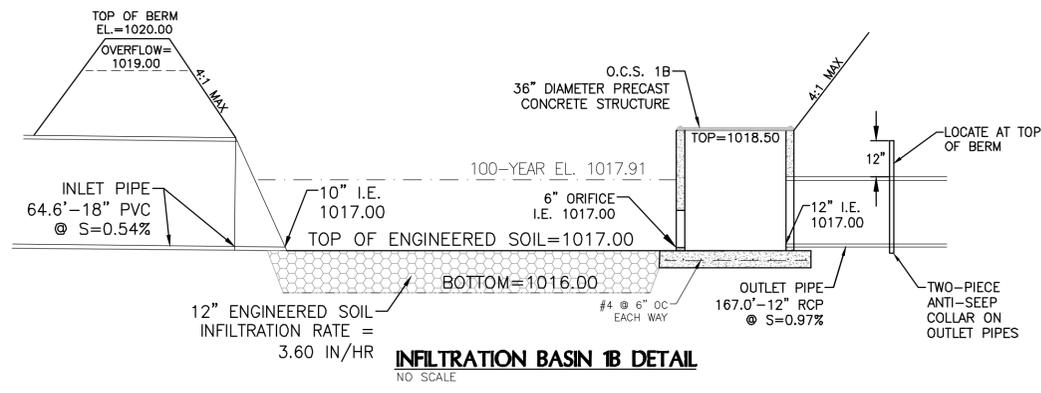
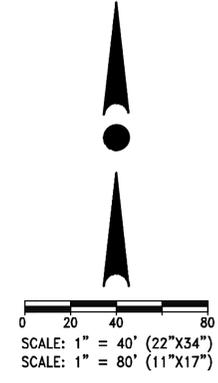
TWO-PIECE ANTI-SEEP COLLAR NOTES:
- ANTI-SEEP COLLAR MATERIAL SHALL MATCH OUTLET PIPE MATERIAL.
- ANTI-SEEP COLLARS SHALL BE 1/4" POLYETHYLENE SHEETS WITH COLLAR FOR PIPE; DIMENSIONS SHALL BE AS NOTED ON THE DETAIL.
- INSTALL ANTI-SEEP COLLARS PER MANUFACTURER SPECIFICATIONS.



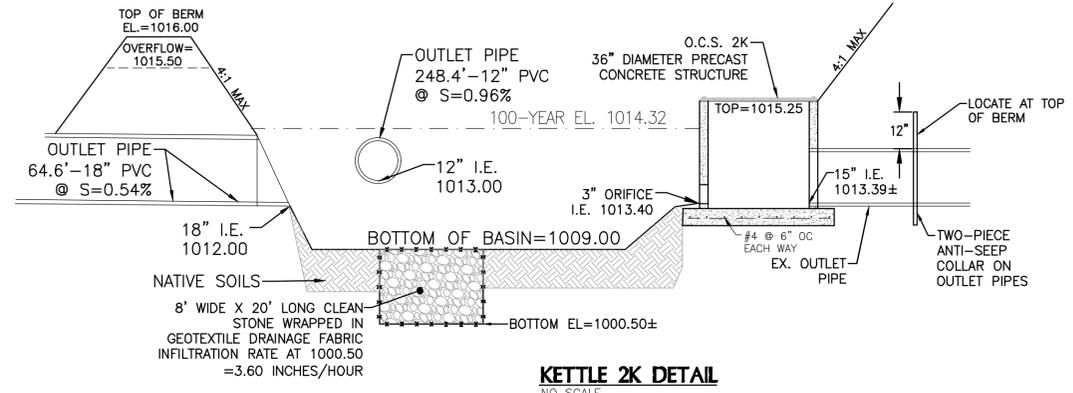
INFILTRATION BASIN 1B



KETTLE 2K



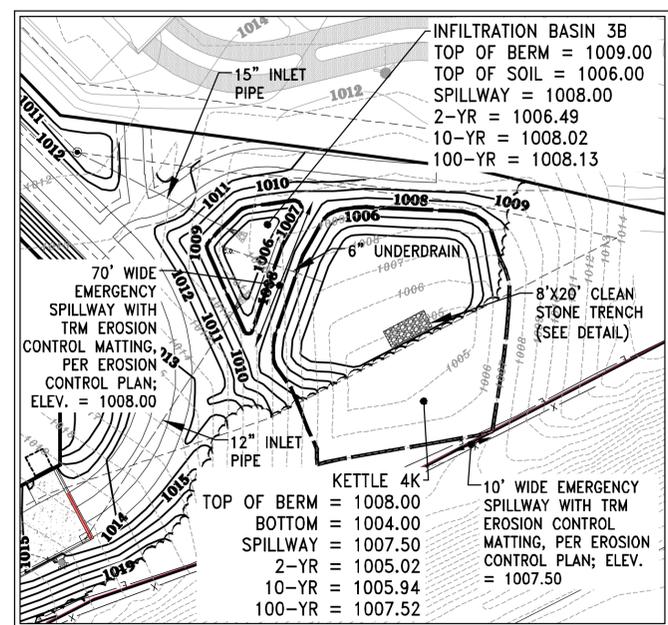
INFILTRATION BASIN 1B DETAIL
NO SCALE



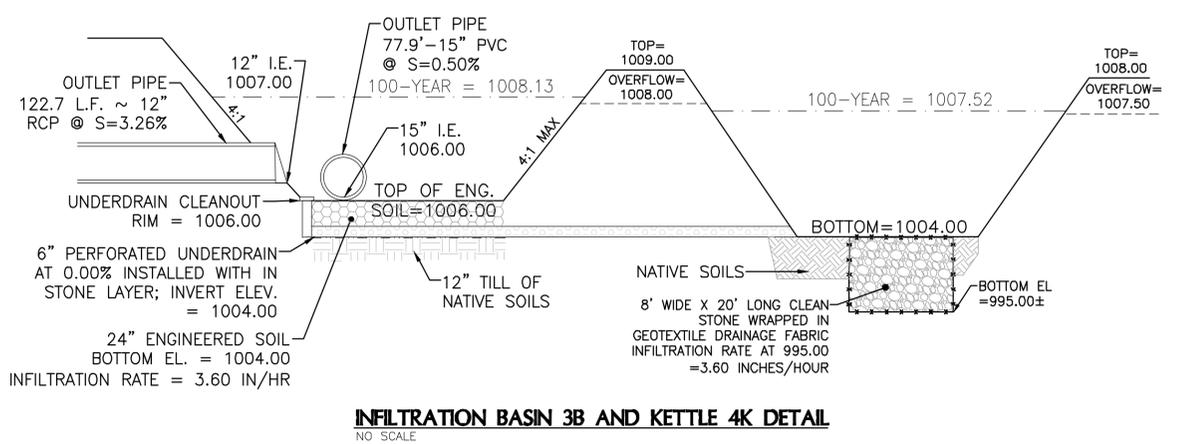
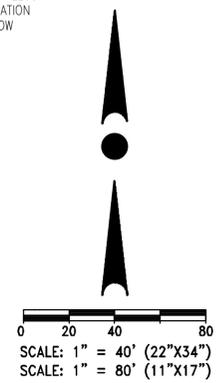
KETTLE 2K DETAIL
NO SCALE

INFILTRATION BASIN CONSTRUCTION NOTES

1. INFILTRATION DEVICES SHALL NOT BE INSTALLED UNTIL THE SITE IS STABILIZED.
2. ONCE CONSTRUCTION OF AN INFILTRATION DEVICE BEGINS, THE INFILTRATION DEVICE SHALL BE CORDONED OFF AND/OR PROTECTED FROM COMPACTION FROM HEAVY EQUIPMENT.
3. ENGINEERED SOIL PLACED IN THE INFILTRATION DEVICE SHALL NOT BE COMPACTED.
4. PLACEMENT OF ENGINEERED SOILS SHALL BE SUSPENDED IN PERIODS OF RAINFALL AND SNOWMELT AND SHALL REMAIN SUSPENDED IF PONDED WATER IS PRESENT.
5. VEGETATION SHALL BE ESTABLISHED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1004 AND/OR PER LANDSCAPE PLAN. UNLESS OTHERWISE NOTED, SEED WITH PRAIRIE MOON NURSERY INFILTRATION BASIN MIX OR FUNCTIONAL PRAIRIE SEEDING EQUIVALENT. FOLLOW SEEDING RATES PROVIDED BY THE SUPPLIER.



INFILTRATION BASIN 3B AND KETTLE 4K



INFILTRATION BASIN 3B AND KETTLE 4K DETAIL
NO SCALE

X:\2024\24-29-1138 HARTLAND SENIOR LIVING FOR THREE LEAF PARTNERS\CONSTRUCTION PLANS\HARTLAND SEN. LIVING_CIVIL_PLAN_SET_22X34.DWG



4100 N. CALHOUN RD., SUITE 300
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: jbailey@trioeng.com

PROJECT:
HARTLAND SENIOR LIVING
VILLAGE OF HARTLAND, WISCONSIN
BY: **THREE LEAF PARTNERS**
504 W. JUNEAU AVE.
MILWAUKEE, WI 53203

REVISION HISTORY	
DATE	DESCRIPTION
07/01/24	INITIAL SUBMITTAL
08/12/24	PC SUBMITTAL
10/09/24	FINAL PLAN SET

DATE:
OCTOBER 9, 2024

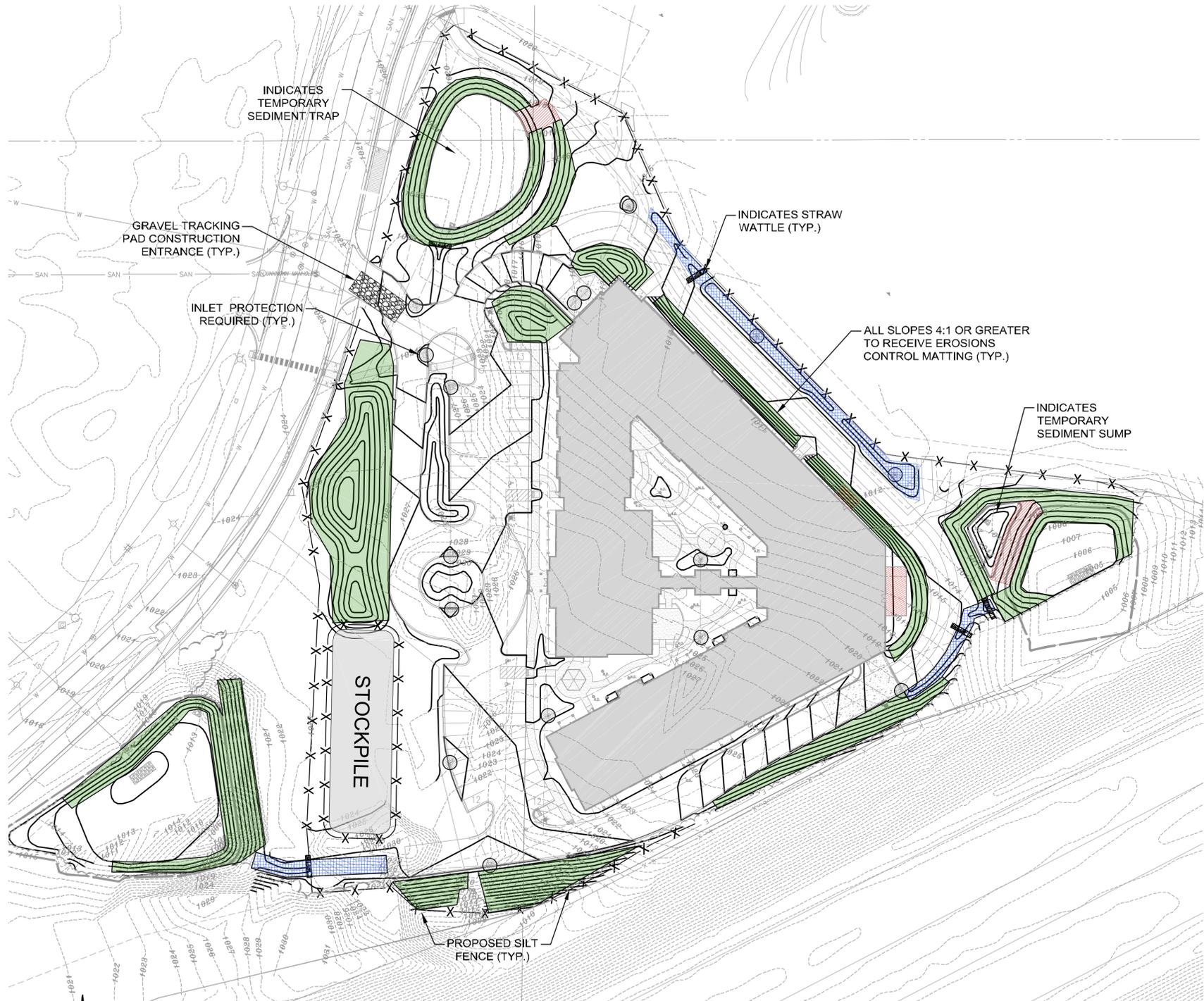
JOB NUMBER:
24-29-1138

DESCRIPTION:
POND PLAN

SHEET

C2.3

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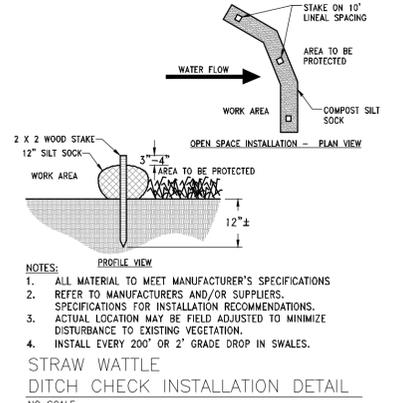
- EROSION CONTROL NOTES:**
1. ALL EROSION CONTROL METHODS SHALL BE INSTALLED IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS AND CITY OF BROOKFIELD MUNICIPAL CODE 15.20 AND CITY STANDARDS AND REQUIREMENTS.
 2. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MINIMIZE EROSION, WATER POLLUTION AND SILTATION CAUSED BY CONSTRUCTION OF THIS PROJECT. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
 3. EROSION CONTROL PLAN PRIOR TO BEGINNING WORK, THE CONTRACTOR MAY BE REQUIRED TO SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN, DETAILING SPECIFIC MEASURES THAT WILL BE USED IN THE VARIOUS STAGES OF CONSTRUCTION FOR APPROVAL BY THE ENGINEER.
 4. IMPLEMENTATION: THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL AFTER INITIAL EROSION AND SEDIMENT CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
 5. EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - A. DIVERGENT UPSTREAM RUNOFF FROM FLOWING THROUGH THE CONSTRUCTION SITE.
 - B. PROTECT DOWNSTREAM OR ADJACENT WATERWAYS AND WETLANDS WITH SILT FENCE.
 - C. DELAY STRIPPING TOPSOIL UNTIL REQUIRED FOR CONSTRUCTION.
 - D. PLACE SILT FENCE OR EROSION CONTROL BALES IN DITCHES AND OTHER DRAINAGE WAYS TO COLLECT SEDIMENT AND TO SLOW THE VELOCITY OF RUNOFF.
 - E. PROTECT STORM SEWER INLETS AND THE UPSTREAM END OF CULVERTS WITH SILT FENCE OR EROSION CONTROL BALES (SEE DETAIL SHEET CS.1).
 - F. PROMPT REMOVAL OF EXCAVATED MATERIAL.
 - G. PROPER STORAGE OF BACKFILL AND BEDDING MATERIALS INCLUDING PLACING SILT FENCE OR EROSION CONTROL BALES ON THE DOWNSLOPE SIDES OF SPOIL PILES.
 - H. CONSTRUCTION OF TRACKING PAD TO CONSTRUCTION SITE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO ROADWAYS.
 - I. PROMPT (SAME DAY) CLEANUP OF MATERIAL TRACKED ONTO ADJACENT STREETS.
 - J. TIMELY RESTORATION OF DAMAGE SURFACE AREAS.
 - K. ALL AREAS THAT WILL REMAIN DISTURBED AFTER OCTOBER 15 MUST BE TEMPORARILY SEED AS OF THAT DATE.
 6. TEMPORARY EROSION CONTROL MEASURES:
 - A. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY EROSION CONTROL MEASURES, WHERE EROSION IS LIKELY TO BE A PROBLEM, PRIOR TO BEGINNING WORK ON THOSE SECTION(S) OF THE PROJECT. TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL AFTER PERMANENT EROSION CONTROL, SUCH AS SEEDING OR SODDING, HAS BEEN ESTABLISHED.
 - B. IN THE EVENT THE PERMANENT EROSION CONTROL MEASURES ARE NOT FULLY IMPLEMENTED IN CURRENT CONSTRUCTION SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY TEMPORARY EROSION CONTROL MEASURES UNTIL AFTER PERMANENT MEASURES HAVE BEEN COMPLETED IN THE FOLLOWING YEAR.
 7. ALL EXPOSED SOIL AREAS NOT DISTURBED FOR UP TO SEVEN DAYS MUST BE IMMEDIATELY RESTORED WITH SEED AND MULCH.
 8. TRENCH DEWATERING SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS.
 9. INSTALL SILT FENCE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD DETAILS.
 10. ALL RIP RAP AT PIPE OUTLETS SHALL BE 3"x5" MEDIUM RIP RAP OVER TYPE R FABRIC PER WDOT SPECIFICATIONS UNLESS OTHERWISE DESIGNATED.
 11. EROSION CONTROL INSPECTION AND MAINTENANCE:
 - A. INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER SITE RECEIVES 0.5" OF RAIN IN A 24-HOUR PERIOD DURING CONSTRUCTION.
 - B. REPAIR OR REPLACE EROSION CONTROLS THAT ARE DAMAGED OR FAILING.
 12. ALL AREAS TO BE SEED AND MULCHED SHALL USE WDOT SEED MIXTURE NO. 20. MULCH SHALL APPLIED PER WDOT SPECIFICATIONS USING METHOD B FOR PLACEMENT.

- CONSTRUCTION SEQUENCE PLAN**
1. APPLY FOR NECESSARY LOCAL PERMITS (EROSION CONTROL, NOTICE OF INTENT, ETC.)
 2. INSTALL TRACKING PAD AND SILT FENCE PER PLAN.
 3. CLEAR AND GRUB SEDIMENT TRAP/SUMP AREAS.
 4. STRIP TOPSOIL AND STOCKPILE, SEED AND STABILIZE STOCKPILES IMMEDIATELY UPON COMPLETION OF STOCKPILING.
 - 4.1. ALL EXPOSED SOIL AREAS NOT DISTURBED FOR UP TO SEVEN DAYS MUST BE IMMEDIATELY RESTORED WITH SEED AND MULCH.
 5. BEGIN CONSTRUCTION OF SILT TRAP AND SEDIMENT SUMP. CONCURRENT WITH CONSTRUCTION OF THE SILT TRAP, BEGIN CONSTRUCTION OF DIVERSION BERMS AND SWALES (WITH DITCH CHECKS) TO DIRECT SITE RUNOFF TO THE SILT TRAP, AS INDICATED ON THE PLAN.
 6. CLEAR AND GRUB SITE.
 7. ROUGH GRADE SITE.
 8. BUILDING CONSTRUCTION.
 9. INSTALL SANITARY SEWER AND WATER MAIN.
 10. INSTALL STORM SEWER, AND ASSOCIATED EROSION CONTROL MEASURES PER EROSION CONTROL PLAN. NOTE THAT THIS STEP MAY BEGIN CONCURRENT WITH SANITARY SEWER AND WATER MAIN INSTALLATION.
 11. FINISH GRADE THE SITE. NOTE THAT THIS STEP MAY OCCUR CONCURRENT WITH STORM SEWER INSTALLATION.
 12. INSTALL STONE BASE COURSE, CONSTRUCT CURB , AND PLACE BINDER COURSE PAVEMENT. NOTE THAT THIS STEP MAY BEGIN CONCURRENT WITH FINISH GRADING.
 13. RESPADE 6" OF TOPSOIL AND PLACE SEED (WDNR TECH STD. 1059), MULCH (WDNR TECH STD. 1058), MATTING (WDNR TECH STD. 1052 & 1053) AND OTHER SITE STABILIZERS AS NEEDED. NOTE THAT THIS STEP MAY BEGIN CONCURRENT WITH FINISH GRADING AND ROAD CONSTRUCTION. ALSO NOTE THAT ANY AREAS, SUCH AS POND SLOPES, THAT ARE FINISH GRADED AND TOPSOILED SHALL BE SEED, MULCHED AND/OR MATTED IMMEDIATELY AFTER TOPSOIL IS PLACED.
 14. REMOVE ALL ACCUMULATED SILT FROM SILT TRAP. FINALIZE CONSTRUCTION OF STORMWATER FACILITY PER PLAN, PROVIDING A 12" DEEP TILL BETWEEN THE BOTTOM OF STONE ELEVATION AND NATIVE SOILS.
 15. FINAL SURFACE OF PARKING LOT.
 16. LATE SEASON (AFTER OCTOBER 15) STABILIZATION NOTES:
 - 16.1. ALL AREAS THAT WILL REMAIN DISTURBED AFTER OCTOBER 15 MUST BE TEMPORARILY SEED AS OF THAT DATE.
 - 16.2. ANY FINAL SITE STABILIZATION THAT OCCURS AFTER OCTOBER 15 MAY REQUIRE CONTRACTOR TO COVER DISTURBED AREAS WITH THE ANIONIC FORM OF POLYACRYLAMIDE (PAM), PER WDNR TECHNICAL STANDARD 1050 AND WSDOT P&L LIST. CONTRACTOR SHALL COORDINATE WITH CITY ENGINEER AND WDNR FOR LATE SEASON STABILIZATION REQUIREMENTS.
 17. REMOVE CONSTRUCTION EROSION CONTROL MEASURES AFTER SITE IS STABILIZED (SUBSTANTIALLY VEGETATED) AND ALL CONSTRUCTION IS COMPLETE.
 18. COMPLETE AS-BUILT SURVEY AND RECORD DRAWINGS, AND SUBMIT TO VILLAGE.
 19. REMOVE REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
 20. FILE NOT WITH DNR ONCE 70% STABILIZATION IS COMPLETE. (APPROX. PROJECT FINISH DATE 6/15/24)

LATE SEASON STABILIZATION NOTES:

THE OBJECTIVE IS TO STABILIZE THE SITE WITH 70% VEGETATIVE COVERAGE OF ALL PVIOUSLY DISTURBED AREAS BEFORE THE END OF THE GROWING SEASON. THIS WILL BE DONE BY SEEDING OF ALL DISTURBED AREAS WITH PERMANENT VEGETATION BY SEPTEMBER 15, 2023. IF THIS DEADLINE IS MISSED, THEN STABILIZATION WILL BE COMPLETED BY:

1. SEEDING OF ALL DISTURBED AREAS WITH TEMPORARY SEED MIX (OATS, WINTER WHEAT, ANNUAL RYE) BY OCTOBER 15. PERMANENT SEED MIX MUST THEN BE IMPLEMENTED BY JUNE 1 OF THE FOLLOWING YEAR.
2. IF THE OCTOBER 15 DEADLINE IS MISSED, COVERAGE OF ALL DISTURBED AREAS BY NOVEMBER 1 WITH:
 - a. TOPSOIL, SEED, AND THE MATERIAL CALLED FOR ON THIS PLAN, WHERE TOPSOIL, SEED, AND EROSION CONTROL MATTING IS CALLED FOR.
 - b. TOPSOIL, SEED, AND TYPE A SOIL STABILIZER FROM THE WDOT PRODUCT ACCEPTABILITY LIST OR OTHER METHOD APPROVED BY THE CITY ENGINEER FOR ALL AREAS WHERE SEED, TOPSOIL, AND MULCH IS CALLED FOR ON THIS PLAN.
3. IF THE NOVEMBER 1 DEADLINE HAS BEEN MISSED, AND THE CITY ENGINEER HAS DETERMINED THAT IT IS INFEASIBLE TO PLACE TOPSOIL, THE PERMIT APPLICANT SHALL:
 - a. APPLY TYPE A SOIL STABILIZER FROM THE WDOT PRODUCT ACCEPTABILITY LIST TO ALL DISTURBED AREAS.
 - b. INSTALL DITCH CHECKS IN ALL DITCHES WITH SLOPE GREATER THAN 0.5% AT INTERVALS SUCH THAT THE TOP OF THE DOWNHILL DITCH CHECK IS AT THE ELEVATION OF THE FOOT OF THE UPHILL DITCH CHECK. DITCH CHECKS SHALL BE EITHER:
 - i. TRIANGULAR FOAM-CORE
 - ii. STONE INSTALLED PER THE WDNR TECHNICAL STANDARD
 - iii. COMPOST-FILLED TUBES, OR
 - iv. A COMPARABLE PRODUCT AS APPROVED BY THE CITY ENGINEER.



TEMP. EROSION MATTING
(ALL SLOPES 4:1 OR GREATER)
N.A. GREEN S75BN
CLASS I URBAN, TYPE B

CHANNEL EROSION MATTING
KEP-C100 NATURAL
CLASS II, TYPE C

OVERFLOW SPILLWAY MATTING
N.A. GREEN C350
CLASS III, TYPE A

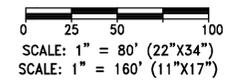
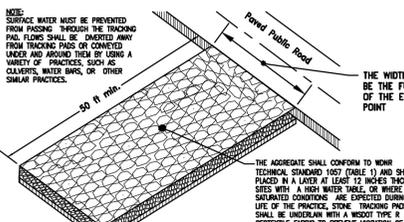
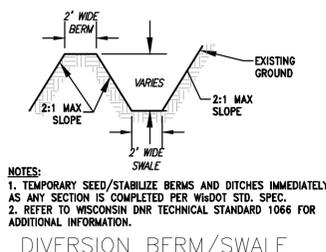
WISCONSIN DEPARTMENT OF NATURAL RESOURCES. CONSERVATION PRACTICE STANDARD:

1052	- NON-CHANNEL EROSION MAT
1053	- CHANNEL EROSION MAT
1055	- SEDIMENT BALE BARRIER (NON-CHANNEL)
1056	- SILT FENCE
1060	- STORM INLET PROTECTION FOR CONST. SITES
1062	- DITCH CHECK
1057	- STONE TRACKING PAD AND TIRE WASHING
1058	- MULCHING FOR CONSTRUCTION SITES
1059	- TEMPORARY SEEDING
1061	- DE-WATERING (IF REQUIRED)
1063	- SEDIMENT TRAP
1064	- SEDIMENT BASIN

TEMPORARY DEWATERING GEOTEXTILE BAG

1. IF DEWATERING IS REQUIRED, A GEOTEXTILE DEWATERING BAG MEETING THE SPECIFICATIONS IN THE TABLE TO THE RIGHT SHALL BE UTILIZED AS STATED ON THE EROSION CONTROL PLAN.
2. REFER TO WDNR TECHNICAL STANDARDS 1061 AND MANUFACTURERS REQUIREMENTS FOR INSTALLATION AND MAINTENANCE REQUIREMENTS.
3. CONTRACTOR MAY USE THRACE-LING, INC 275EX GEOTEXTILE BAG, OR FUNCTIONAL EQUIVALENT TO MEET TECHNICAL STANDARD REQUIREMENTS.
4. CONTRACTOR MAY INSTALL HAY BALES AROUND DEWATERING BAG FOR STABILIZATION AS DICTATED BY SITE CONDITIONS.
5. MAX FLOW RATE SHALL NOT EXCEED 100GPM

Property	Test Method	Type I Value
Maximum Apparent Opening Sizes	ASTM D-4751	0.212 mm
Grab Tensile Strength	ASTM D-4632	200 lbs.
Mullen Burst	ASTM D-3786	350 psi
Permeability	ASTM D-4491	0.28 cm/sec
Fabric Weight	Nominal Representative	8 oz



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4100 N. CALHOUN RD., SUITE 300
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: jpaudelko@trioeng.com

PROJECT:
HARTLAND SENIOR LIVING
VILLAGE OF HARTLAND, WISCONSIN
BY: THREE LEAF PARTNERS
504 W. JUNEAU AVE.
MILWAUKEE, WI 53203

REVISION HISTORY

DATE	DESCRIPTION
07/01/24	INITIAL SUBMITTAL
08/12/24	PC SUBMITTAL
10/09/24	FINAL PLAN SET

DATE:
OCTOBER 9, 2024

JOB NUMBER:
24-29-1138

DESCRIPTION:
EROSION CONTROL PLAN

SHEET

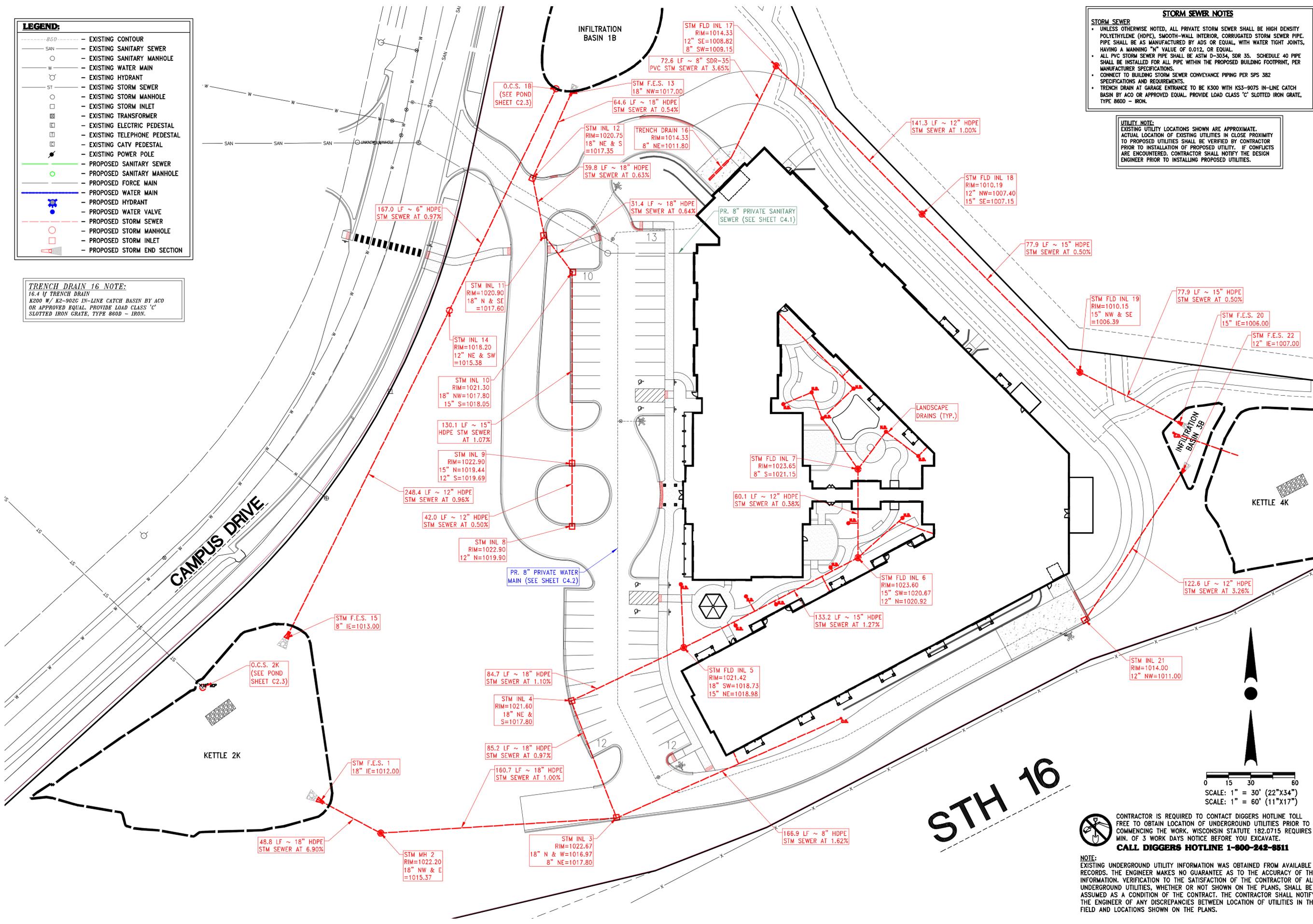
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LEGEND:

--- 850 ---	EXISTING CONTOUR
SAN	EXISTING SANITARY SEWER
○	EXISTING SANITARY MANHOLE
W	EXISTING WATER MAIN
○	EXISTING HYDRANT
ST	EXISTING STORM SEWER
○	EXISTING STORM MANHOLE
○	EXISTING STORM INLET
□	EXISTING TRANSFORMER
□	EXISTING ELECTRIC PEDESTAL
□	EXISTING CATV PEDESTAL
○	EXISTING POWER POLE
---	PROPOSED SANITARY SEWER
○	PROPOSED SANITARY MANHOLE
---	PROPOSED FORCE MAIN
---	PROPOSED WATER MAIN
○	PROPOSED HYDRANT
○	PROPOSED WATER VALVE
---	PROPOSED STORM SEWER
○	PROPOSED STORM MANHOLE
○	PROPOSED STORM INLET
---	PROPOSED STORM END SECTION

TRENCH DRAIN 16 NOTE:
 16.4' V TRENCH DRAIN
 K200 W/ K2-9026 IN-LINE CATCH BASIN BY ACO
 OR APPROVED EQUAL. PROVIDE LOAD CLASS 'C'
 SLOTTED IRON GRATE, TYPE 8600 - IRON.



STORM SEWER NOTES

- UNLESS OTHERWISE NOTED, ALL PRIVATE STORM SEWER SHALL BE HIGH DENSITY POLYETHYLENE (HDPE), SMOOTH-WALL INTERIOR, CORRUGATED STORM SEWER PIPE. PIPE SHALL BE AS MANUFACTURED BY ADS OR EQUAL, WITH WATER TIGHT JOINTS, HAVING A MANNING "N" VALUE OF 0.012, OR EQUAL.
- ALL PVC STORM SEWER PIPE SHALL BE ASTM D-3034, SDR 35, SCHEDULE 40 PIPE SHALL BE INSTALLED FOR ALL PIPE WITHIN THE PROPOSED BUILDING FOOTPRINT, PER MANUFACTURER SPECIFICATIONS.
- CONNECT TO BUILDING STORM SEWER CONVEYANCE PIPING PER SPS 382 SPECIFICATIONS AND REQUIREMENTS.
- TRENCH DRAIN AT GARAGE ENTRANCE TO BE K300 WITH K3-9075 IN-LINE CATCH BASIN BY ACO OR APPROVED EQUAL. PROVIDE LOAD CLASS 'C' SLOTTED IRON GRATE, TYPE 8600 - IRON.

UTILITY NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL LOCATION OF EXISTING UTILITIES IN CLOSE PROXIMITY TO PROPOSED UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION OF PROPOSED UTILITY. IF CONFLICTS ARE ENCOUNTERED, CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER PRIOR TO INSTALLING PROPOSED UTILITIES.



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PROJECT:
HARTLAND SENIOR LIVING
 VILLAGE OF HARTLAND, WISCONSIN
 BY: THREE LEAF PARTNERS
 504 W. JUNEAU AVE.
 MILWAUKEE, WI 53203

REVISION HISTORY

DATE	DESCRIPTION
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10/09/24	FINAL PLAN SET

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JOB NUMBER:
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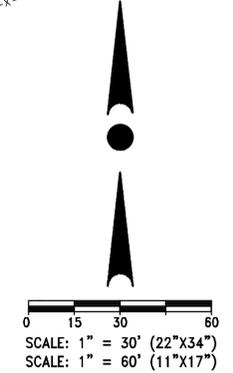
DESCRIPTION:
 OVERALL UTILITY PLAN

SHEET

C4.0

NOTE:
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PROJECT:
HARTLAND SENIOR LIVING
VILLAGE OF HARTLAND, WISCONSIN
BY: THREE LEAF PARTNERS
504 W. JUNEAU AVE.
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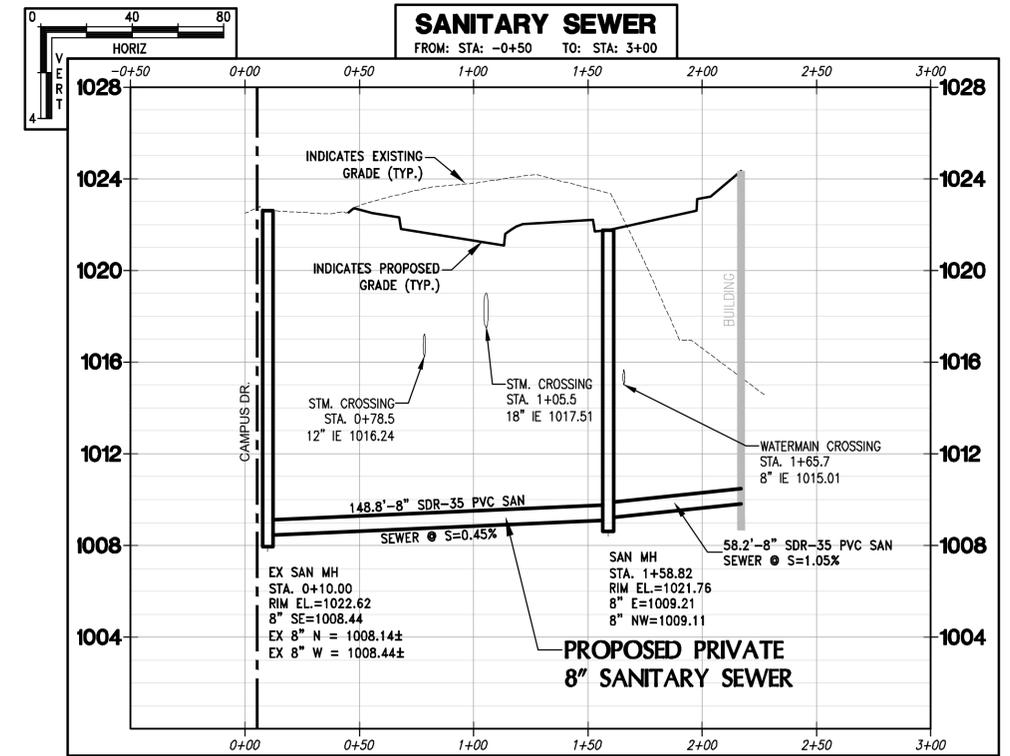
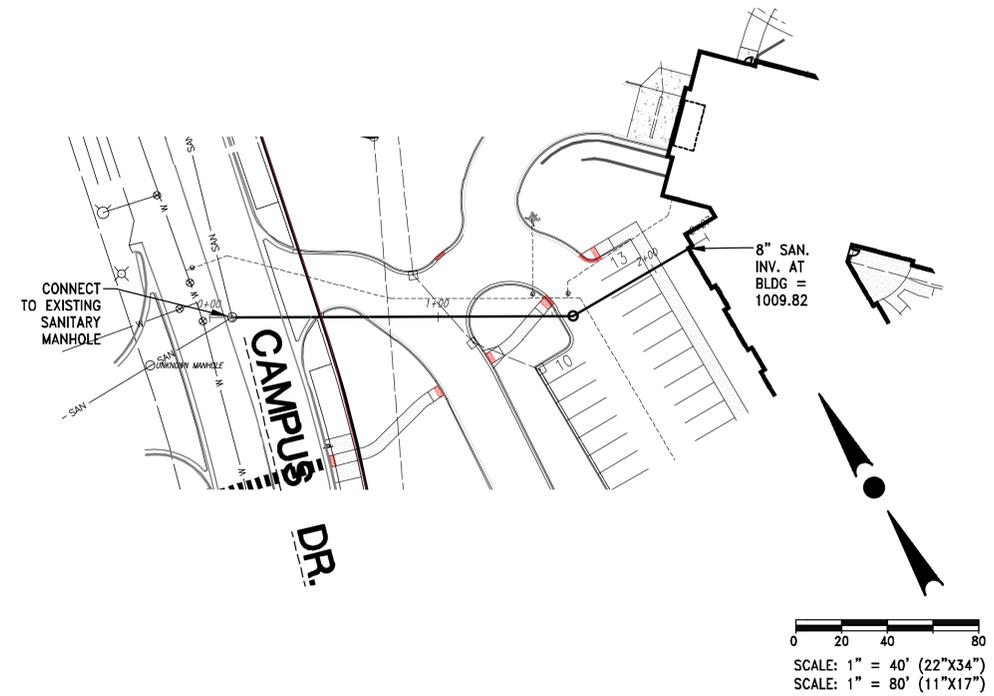
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OCTOBER 9, 2024

JOB NUMBER:
24-29-1138

DESCRIPTION:
SANITARY PLAN
& PROFILE

SHEET

C4.1



UTILITY NOTE:
EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL LOCATION OF EXISTING UTILITIES IN CLOSE PROXIMITY TO PROPOSED UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION OF PROPOSED UTILITY. IF CONFLICTS OR DISCREPANCIES ARE ENCOUNTERED, CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER PRIOR TO INSTALLING PROPOSED UTILITIES.

- SANITARY SEWER NOTES**
- ALL 8" PVC SEWER PIPE SHALL MEET THE REQUIREMENTS SET FORTH IN SECTION 8.10.0 (SSSWCW).
 - ALL SANITARY MANHOLES SHALL BE 48" DIA. WITH A NEENAH R-1580 NON-ROCKING FRAME WITH NO VENT HOLES AND MEET THE REQUIREMENTS SET FORTH IN SSSWCW.
 - SDR-35 PVC PIPE SHALL BE USED FOR SANITARY SEWERS LESS THAN 16 FEET DEEP.
- TRACER WIRE NOTE**
- CONTRACTOR SHALL INSTALL PLASTIC COATED TRACER WIRE (10-GAUGE SOLID GREEN INSULATED COPPER WIRE, PER HARTLAND STANDARD SPECIFICATIONS. PLASTIC WIRE MAY BE TAPED TO PLASTIC DRAIN PIPE. IF ATTACHED, THE TRACER SHALL BE SECURED EVERY 6 TO 20 FEET AND AT ALL BENDS. TRACER WIRE SHALL HAVE ACCESS POINTS AT LEAST EVERY 300 FEET.

CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE:
EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



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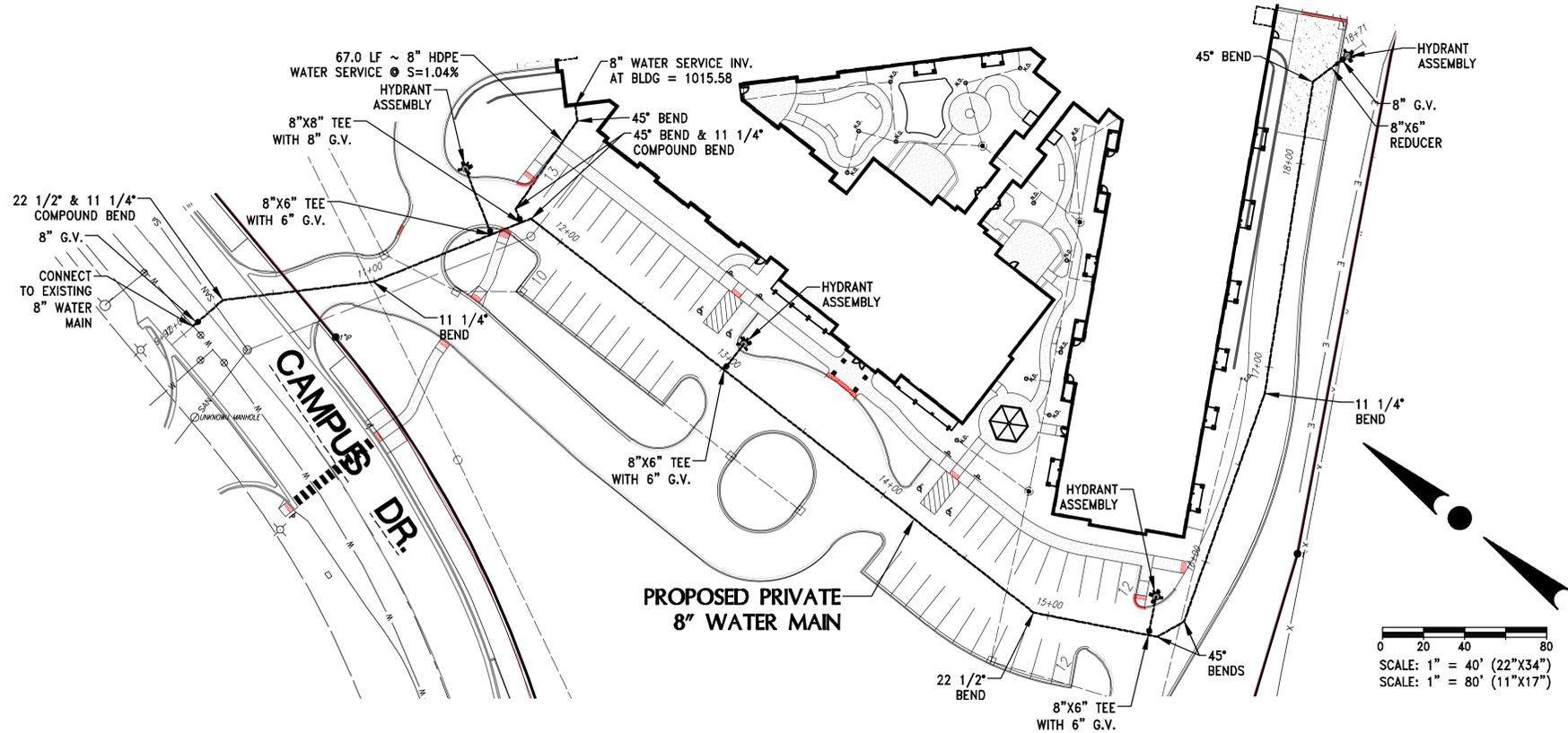
WATER MAIN NOTES

- WATERMAIN**
- ALL 8" WATERMAIN CONSTRUCTED AS PART OF THIS PLAN SHALL BE PVC, C-900, CLASS 150 (DR-18). JOINTS SHALL BE MADE BY THE USE OF ELASTOMERIC SEAL CONFORMING TO ASTM D3139
 - HYDRANTS SHALL BE SET AT 2 FT. BEHIND THE BACK OF CURB, WITH THE NOZZLE ELEVATION 20 INCHES ABOVE TOP OF CURB. ANCHOR TEES SHALL BE USED FOR EACH HYDRANT BRANCH.
 - ALL WATERMANS (AND SERVICES) CALLED FOR ON THESE PLANS ARE TO BE INSTALLED WITH CLASS "B" BEDDING AS SPECIFIED IN CH. 4.3.0, LAYING OF WATERMAIN, AND FILE NO. 36, PART VII (SSSWCW).
 - REFER TO THE VILLAGE OF HARTLAND STANDARD SPECIFICATIONS FOR FURTHER GUIDANCE.
 - ALL VALVES AND HYDRANTS TO BE AMERICAN MADE.

- TRACER WIRE NOTE**
- CONTRACTOR SHALL INSTALL PLASTIC COATED TRACER WIRE (10-GAUGE SOLID BLUE INSULATED COPPER WIRE, PER EAST TROY STANDARD SPECIFICATION SECTION 1.2.21. PLASTIC WIRE MAY BE TAPED TO PLASTIC PIPE. THE TRACER SHALL BE SECURED AT A MINIMUM OF 5-FOOT INTERVALS, PER HARTLAND STANDARD SPECIFICATIONS.

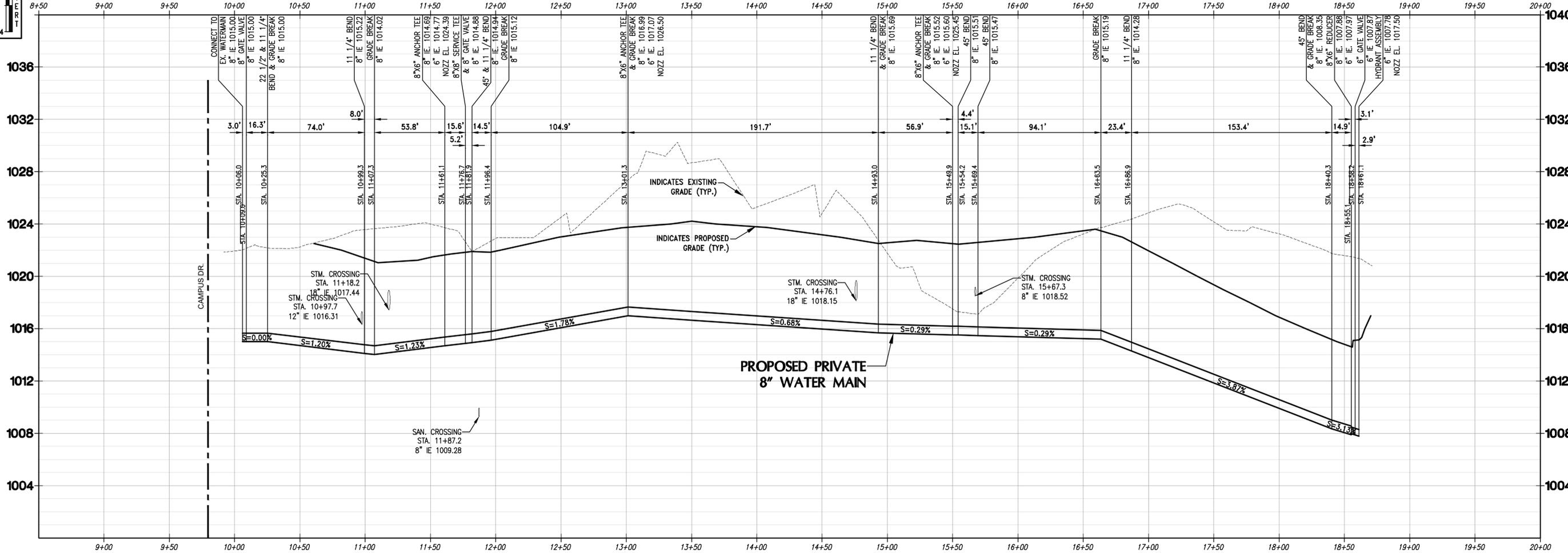
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X:\2024\24-29-1138 HARTLAND SENIOR LIVING FOR THREE LEAF DRAWINGS\CONSTRUCTION PLANS\HARTLAND SENIOR LIVING CIVIL PLAN SET_22X34.DWG



WATER MAIN

FROM: STA: 9+00 TO: STA: 20+00



4100 N. CALHOUN RD., SUITE 300
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: jpaudelko@trioeng.com

PROJECT:
HARTLAND SENIOR LIVING
VILLAGE OF HARTLAND, WISCONSIN
BY: **THREE LEAF PARTNERS**
504 W. JUNEAU AVE.
MILWAUKEE, WI 53203

REVISION HISTORY

DATE	DESCRIPTION
07/01/24	INITIAL SUBMITTAL
08/12/24	PC SUBMITTAL
10/09/24	FINAL PLAN SET

DATE:
OCTOBER 9, 2024

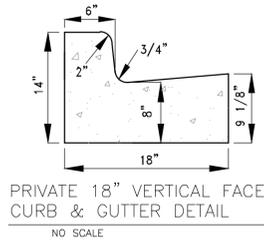
JOB NUMBER:
24-29-1138

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WATERMAIN
PLAN & PROFILE

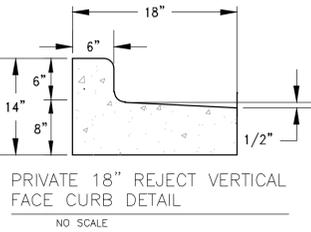
SHEET

C4.2

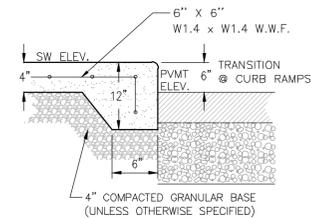
X:\2024\24-29-1138 HARTLAND SENIOR LIVING FOR THREE LEAF PARTNERS\CONSTRUCTION PLANS\HARTLAND SEN. LIVING.CIVIL PLAN SET_22X34.DWG



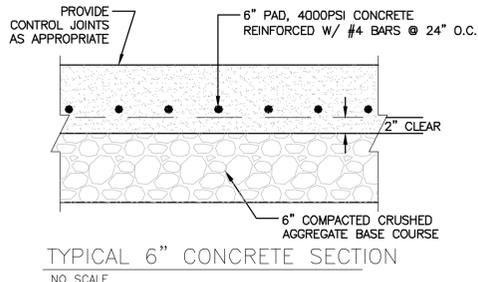
PRIVATE 18" VERTICAL FACE CURB & GUTTER DETAIL
NO SCALE



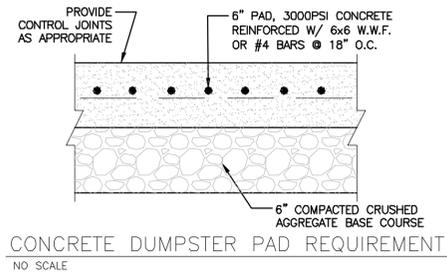
PRIVATE 18" REJECT VERTICAL FACE CURB DETAIL
NO SCALE



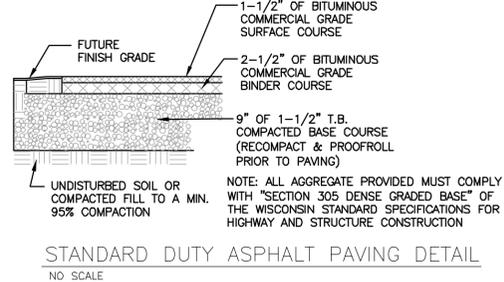
INTEGRAL SIDEWALK & BARRIER CURB
(WHERE SIDEWALK ADJOINS DRIVEWAYS/PARKING AREAS) NO SCALE



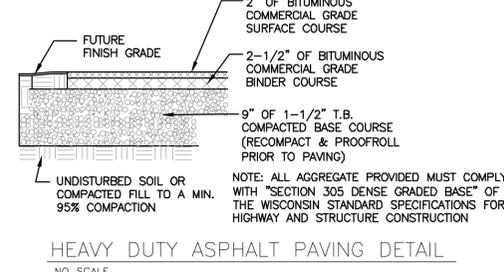
TYPICAL 6" CONCRETE SECTION
NO SCALE



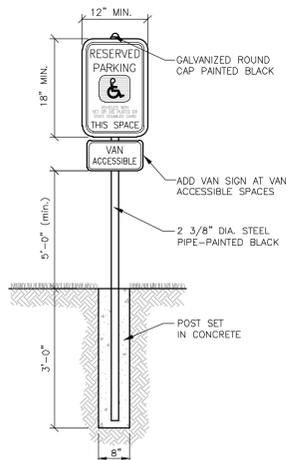
CONCRETE DUMPSTER PAD REQUIREMENT
NO SCALE



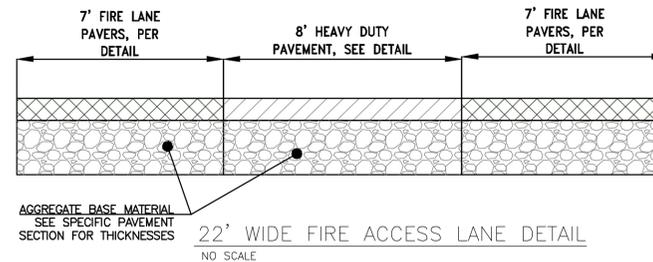
STANDARD DUTY ASPHALT PAVING DETAIL
NO SCALE



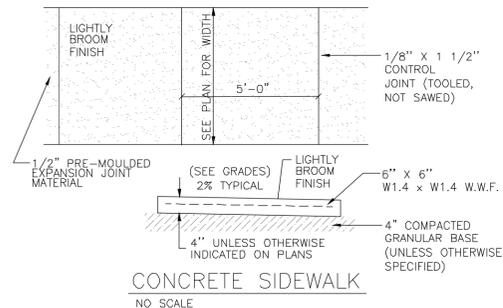
HEAVY DUTY ASPHALT PAVING DETAIL
NO SCALE



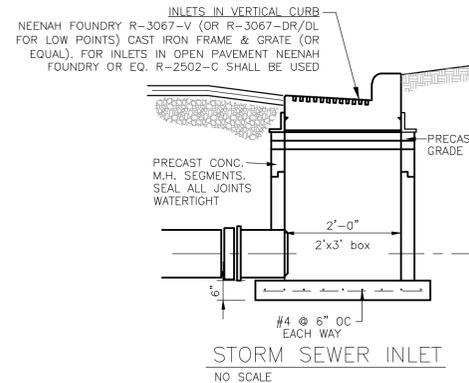
HANDICAP SIGNAGE DETAIL
NO SCALE



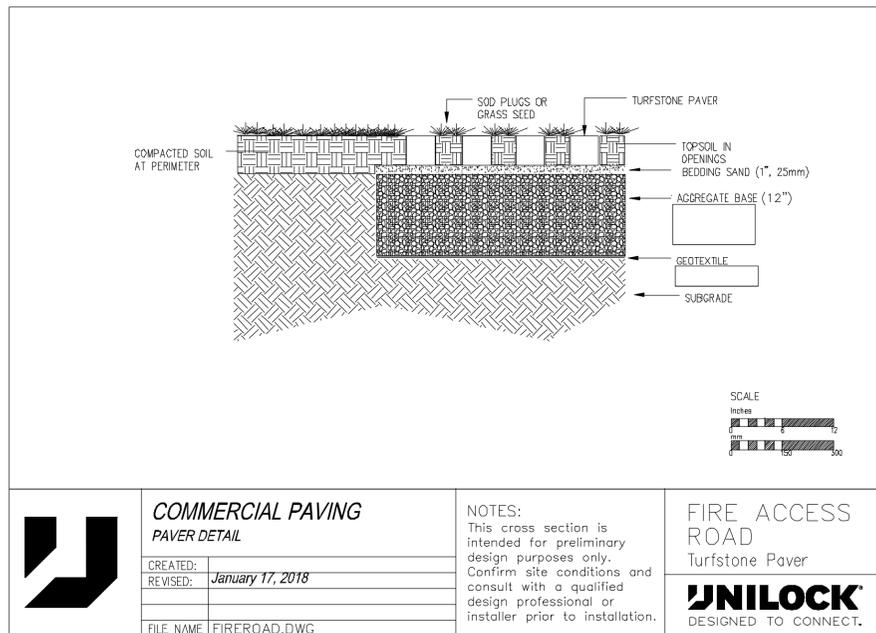
22' WIDE FIRE ACCESS LANE DETAIL
NO SCALE



CONCRETE SIDEWALK
NO SCALE



STORM SEWER INLET
NO SCALE

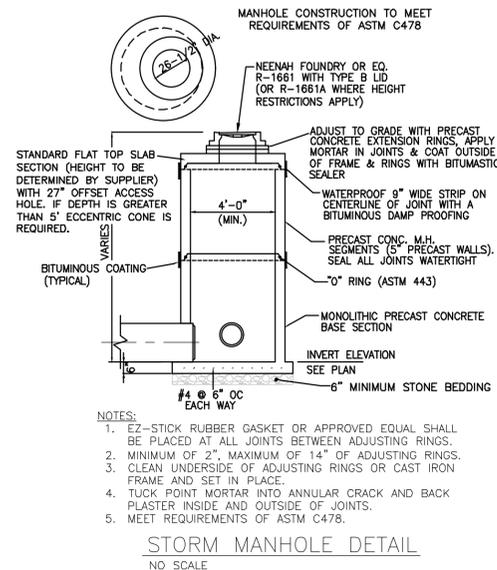


COMMERCIAL PAVING PAVER DETAIL

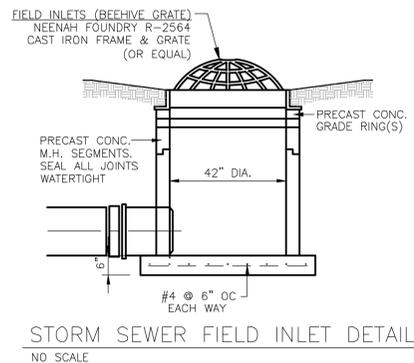
CREATED: January 17, 2018
REVISED:
FILE NAME: FIREROAD.DWG

NOTES:
This cross section is intended for preliminary design purposes only. Confirm site conditions and consult with a qualified design professional or installer prior to installation.

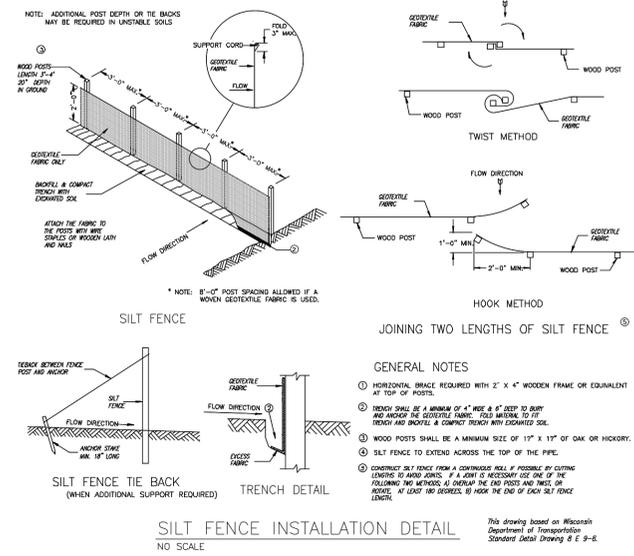
FIRE ACCESS ROAD
Turfstone Paver
JNIOCK
DESIGNED TO CONNECT.



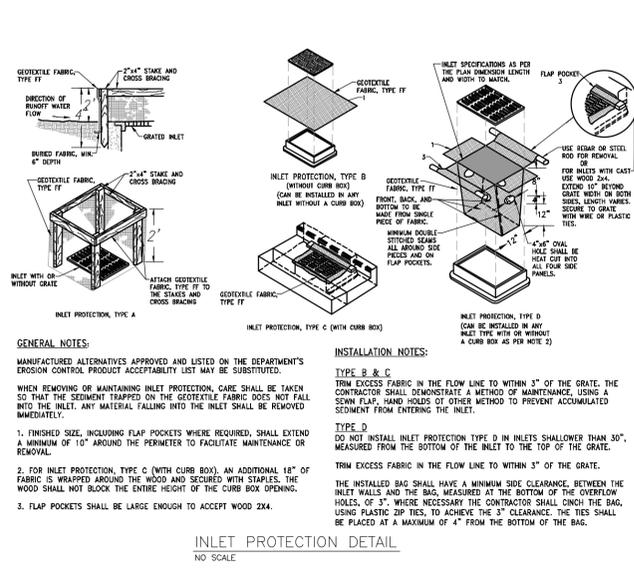
STORM MANHOLE DETAIL
NO SCALE



STORM SEWER FIELD INLET DETAIL
NO SCALE



SILT FENCE INSTALLATION DETAIL
NO SCALE



INLET PROTECTION DETAIL
NO SCALE



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