

KWIK TRIP STORE #1219

ENGINEERING PLANS LES PAUL PARKWAY, CITY OF WAUKESHA WAUKESHA COUNTY, WISCONSIN

CITY OF WAUKESHA NOTE:

ALL SITE IMPROVEMENTS AND CONSTRUCTION SHOWN ON THE PLANS SHALL CONFORM TO THE CITY OF WAUKESHA DEVELOPMENT HANDBOOK & INFRASTRUCTURE SPECIFICATIONS. WHERE THE PLANS DO NOT COMPLY, IT SHALL BE THE SOLE RESPONSIBILITY AND EXPENSE OF THE DEVELOPER TO MAKE REVISION TO THE PLANS AN/OR CONSTRUCTED INFRASTRUCTURE TO COMPLY.



KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LA CROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

raSmith 16745 W Bluemound Road
Brookfield, WI 53005-5938
CREATIVITY BEYOND ENGINEERING (262) 781-1000
rasmith.com

PRELIMINARY PLANS FOR
MUNICIPAL REVIEW ONLY

CONVENIENCE STORE #1219
COVER SHEET
LES PAUL PARKWAY
WAUKESHA, WI

#	DATE	DESCRIPTION

DRAWN BY CBW
SCALE GRAPHIC
PROJ. NO. 3210028
DATE 10/20/2021
SHEET T1.0

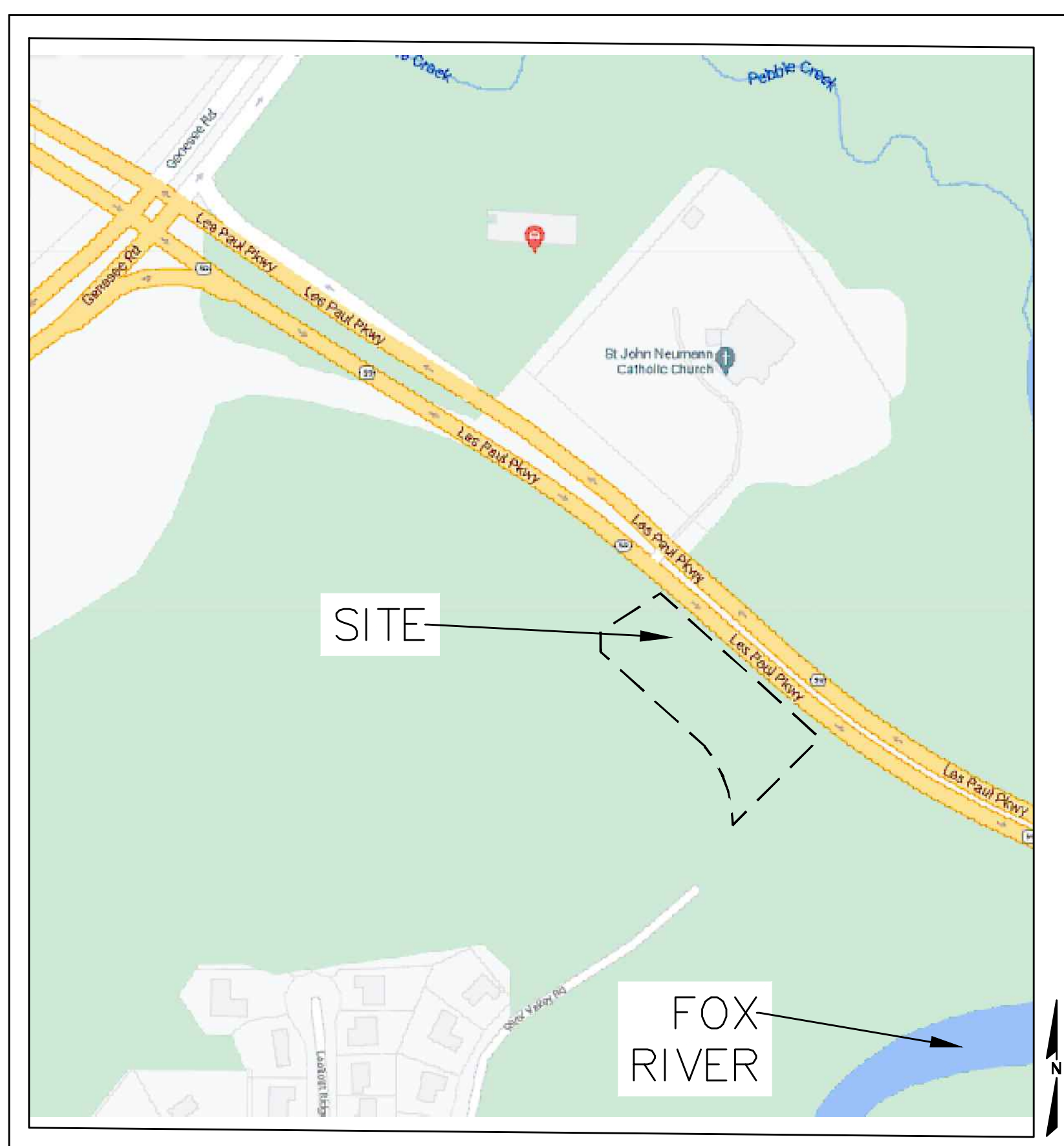
OWNER
KWIK TRIP, INC.
BRADFORD FRY, P.E.
1626 OAK STREET
LA CROSSE, WI 54602
PHONE: 608-793-6414
EMAIL: BFry@kwiktrip.com

CIVIL/SITE ENGINEER
raSmith
ROBERT J. HARLEY, P.E.
PROJECT MANAGER
EMAIL: Robert.Harley@rasmith.com

CHRISTOPHER B. WHITE, P.E.
CIVIL ENGINEER
EMAIL: Christopher.White@rasmith.com

TOM MORTENSEN, PLA, ASLA
LANDSCAPE ARCHITECT
EMAIL: Tom.Mortensen@rasmith.com

16745 W. BLUEMOUND RD.
BROOKFIELD, WI 53005-5938
PHONE: 262-781-1000



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PLAN PREPARED BY:

CHRISTOPHER WHITE
R.A. SMITH, INC.
(262) 317-3286
christopher.white@rasmith.com

CHRISTOPHER WHITE 45676-6 10/20/2021
REGISTERED ENGINEER NUMBER DATE



Know what's below.
Call before you dig.

CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE CITY OF WAUKESHA EROSION CONTROL ORDINANCE. THE WISCONSIN DNR STORMWATER CONSTRUCTION AND POST CONSTRUCTION TECHNICAL STANDARDS, THESE DOCUMENTS, THE MOST STRINGENT TO APPLY.

R.A. SMITH, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A. SMITH, INC.

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

EXISTING CONDITIONS:

- EXISTING CONDITIONS SHOWN ON THIS PLAN ARE FROM ALTA/NSPS LAND TITLE SURVEY, DATED 7/9/2021 BY CHAPUT LAND SURVEYS AND DESIGN INFORMATION FROM KAPUR INC.
- CONTRACTOR TO CONFIRM ONSITE CONDITIONS AS THE DESIGN INFORMATION MAY VARY FROM THE ACTUALLY SITE CONDITIONS.
- THE PAD IS TO BE DELIVERED TO KWIK TRIP, INC. COMPACTED, INSPECTED, AND 2' BELOW FINISHED GRADE SHOWN (BY OTHERS). THIS IS NOT REFLECTED ON THIS PLAN.

SITE LOCATION MAP

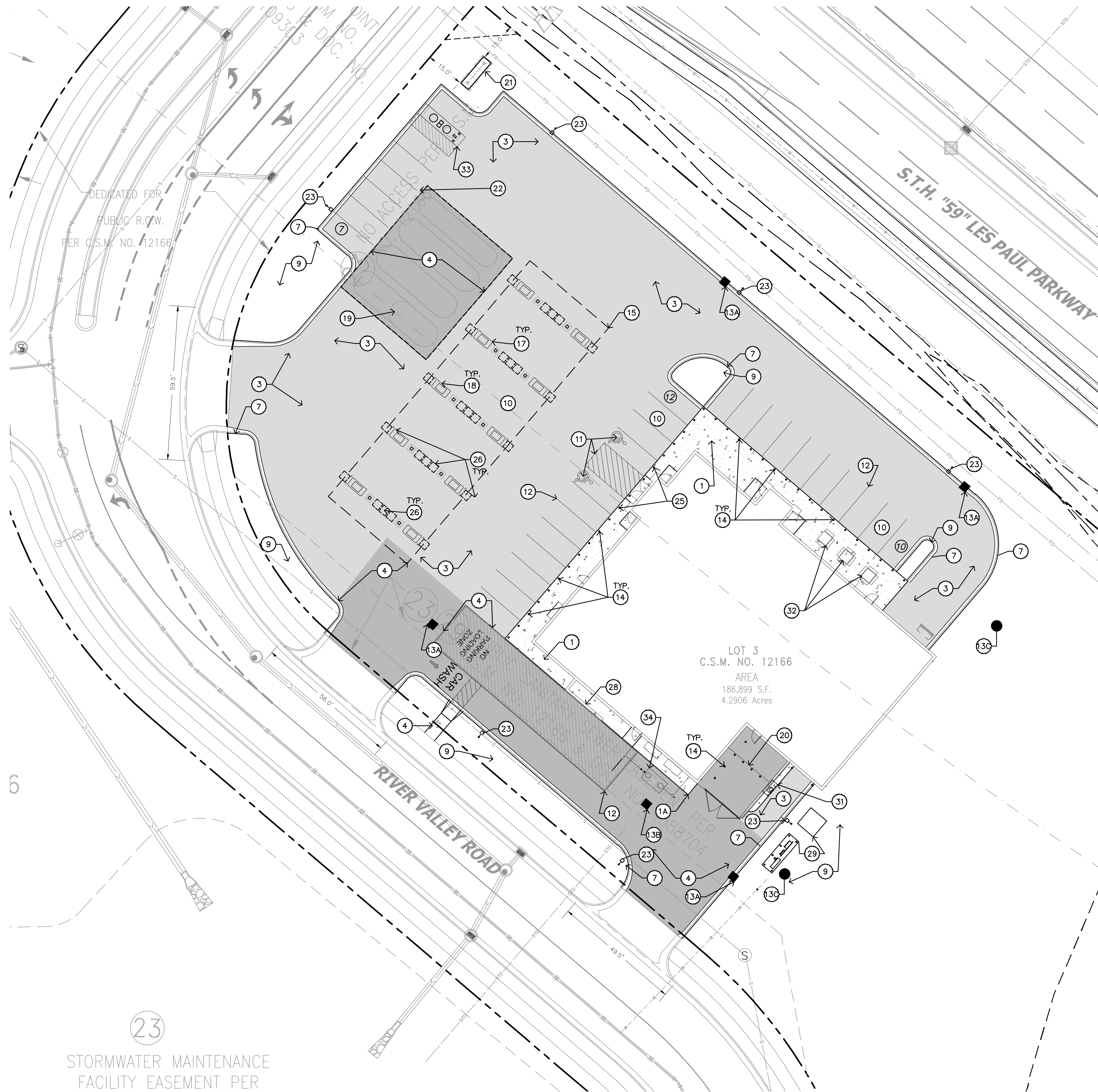
DATUM AND BENCHMARK NOTES, SURVEY PROVIDED BY CHAPUT LAND SURVEYS:

- 1 BEARINGS ARE REFERENCED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM (SOUTH ZONE), IN WHICH THE EAST LINE OF THE SE ¼ SECTION 17 BEARS N00°15'58"W.
- 2 HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1927
- 3 ELEVATIONS ARE REFERENCED TO THE CITY OF WAUKESHA VERTICAL DATUM WHICH IS NGVD1988-780.31.
- 4 THE SOUTHEAST 1/4 OF SECTION 15, TOWNSHIP 6 NORTH, RANGE 19 EAST, CONCRETE MONUMENT W/BRASS CAP.
- 5 BENCHMARK ON SITE: CITY BENCHMARK #54 & CITY BENCHMARK #53 (RR SPIKE W/ SIDE POWER POLE #68-24390)

AERIAL LOCATION MAP

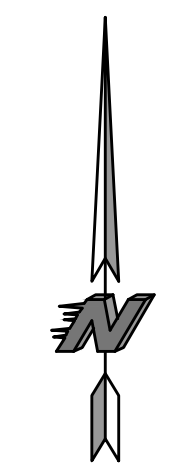
LEGAL DESCRIPTION:

LOT 3 OF CERTIFIED SURVEY MAP NO. 12166 RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS FOR WAUKESHA COUNTY WISCONSIN, ON APRIL 2, 2021 AS DOCUMENT NO. 4579398, BEING REDIVISION OF PARCEL 1 OF CERTIFIED SURVEY MAP NO. 9033, PART OF THE NORTHEAST ¼, NORTHWEST ¼, SOUTHEAST ¼ AND SOUTHWEST ¼ OF THE SOUTHEAST ¼ OF SECTION 17 TOWNSHIP 6 NORTH, RANGE 19 EAST, IN THE CITY OF WAUKESHA, COUNTY OF WAUKESHA, STATE OF WISCONSIN.



SITE PLAN KEYNOTES

1. CONCRETE WALK
A. 6" CONCRETE WALK. CONCRETE SEALER: TK-26UV
2. NOT USED
3. 6" DEPTH (MIN.) CONCRETE SLAB-ON-GRADE WITH #3 REBAR 3' OC BOTH WAYS (CONFIRM WITH GEOTECHNICAL ENGINEER). CONCRETE SEALER: TK-26UV. MIN. BASE COURSE = 12".
4. 8" DEPTH (MIN.) CONCRETE SLAB-ON-GRADE WITH #4 REBAR 4' OC BOTH WAYS (CONFIRM WITH GEOTECHNICAL ENGINEER). CONCRETE SEALER: TK-26UV. MIN. BASE COURSE = 12".
5. DRIVEWAY PER CITY DETAIL ON SP6. CONFIRM REINFORCEMENT WITH GEOTECHNICAL ENGINEER.
6. NOT USED
7. 18-INCH CONCRETE CURB AND GUTTER PER DETAIL 1/SP5.
8. NOT USED
9. LANDSCAPE AREA SEE SHEET LSP1
10. OFF-STREET PARKING STALLS STRIPING - 4" WIDE STALL LINES, USE HIGH VISIBILITY WHITE PAINT. CONVENIENCE STORE SPACES PROVIDED (20) SERVICE POINTS (INCLUDES 2 ACCESSIBLE) (19) 9'-0" (MIN.) X 18'-0" (MIN.) GENERAL PARKING (2) 8'-0" X 20'-0" ACCESSIBLE PARKING (BLUE PAINT) (1) LOADING ZONE - AS SHOWN (BLUE PAINT)
11. A.D.A. ACCESSIBLE PARKING SPACE WITH 11'-0" LOADING ZONE. PROVIDE APPROPRIATE STRIPING AND PAVEMENT MARKINGS.
12. 4" WIDE, HIGH VISIBILITY, PAVEMENT STRIPING, LANE MARKINGS AND TEXT. COLOR: HC MARKINGS & LOADING ZONE- BLUE, ALL OTHERS- YELLOW
13. STORM STRUCTURE. SEE SHEETS SP3 AND SP3.1 FOR FURTHER STORM SEWER INFORMATION.
A. CATCH BASIN OR INLET CURB PER DETAIL 12/SP5
B. OIL SKIMMER PER DETAIL PER DETAILS ON SHEET SP3.
C. MANHOLE, FRAME AND SOLID COVER PER DETAIL 11/SP5
14. 30" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD PER DETAIL 9/SP5
15. 40'-0" X 120'-0" DISPENSER ISLAND CANOPY. VERIFY SIZE, PLACEMENT, COLUMN AND FOOTING SIZE WITH CANOPY AND STRUCTURAL PLANS. CANOPY GRAPHICS PER OWNER.
16. NOT USED
17. CONCRETE ISLANDS W/ 6" EXPOSURE (3'-6" X 7'-0") WITH FUEL DISPENSERS. DISPENSER PER OWNER.
18. 36" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD PER DETAIL 9/SP5.
19. UNDERGROUND FUEL STORAGE TANKS PER OWNER. PROVIDE PIPING AND VENTING PER OWNER'S SPECIFICATIONS.
20. EXTERNAL TRASH ENCLOSURE TO MATCH BUILDING. SEE ARCHITECTURAL DETAILS.
21. KWIK TRIP TRADEMARK SIGN (VERIFY LOCATION WITH SIGN PERMIT)
22. 'FREE AIR' COMPRESSOR. PROVIDE SIGNAGE PER OWNER.
23. SITE AREA LIGHT WITH CONCRETE BASE PER DETAIL 10/SP5
24. NOT USED
25. HC PVC BOLLARD SLEEVE PER OWNER. VAN ACCESS SIGNAGE AT 48" HT. STALL PARKING AT 60" HT.
26. OUTDOOR MERCHANDISING AREA
27. SITE CAMERA MOUNTED ON PROPOSED LIGHT POLE.
28. EXTERIOR DELIVERY 'TOTE' STORAGE WITH SCREEN WALL
29. ELECTRICAL TRANSFORMER AND DISCONNECT PAD. VERIFY FINAL LOCATION WITH UTILITY PROVIDER.
30. NOT USED
31. CAR WASH KEY PAD/CONTROLLER. PROVIDE TRASH CONTAINER.
32. PICNIC TABLE PER OWNER. PROVIDE HC ACCESS TABLE SPACE AND TRASH CONTAINER PER OWNER
33. VACUUM PER MANUFACTURE'S SPECIFICATIONS. SEE DETAIL 5 ON SP5.1
34. GREASE INTERCEPTOR, DESIGN BY MEP DESIGNER



SCALE: 1" = 20'



PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2 SCALE - 1"=40'

NOTES

1. PVC IRRIGATION SLEEVE UNDER PAVEMENT. VERIFY W/ IRRIGATION PLAN FOR EXACT SIZE AND LOCATION BEFORE INSTALLATION.
2. UNLESS SHOWN OTHERWISE ON THIS DRAWING, CONTRACTOR SHALL PROVIDE CONTROL JOINTS, CONSTRUCTION JOINTS, AND EXPANSION JOINTS IN SLAB ON GRADE, SIDEWALKS, AND DRIVES.

CONTROL JOINT MAXIMUM DISTANCE:
WALKS - 8' O.C., ALL OTHERS - 10' O.C.
SAW CUT CONTROL JOINTS MINIMUM ONE - QUARTER CONCRETE THICKNESS

EXPANSION JOINT MAXIMUM DISTANCE:
WALKS - 24' O.C., ALL OTHERS - 40' O.C.

DOWEL ALL EXPANSION JOINTS - MAXIMUM 24" O.C.



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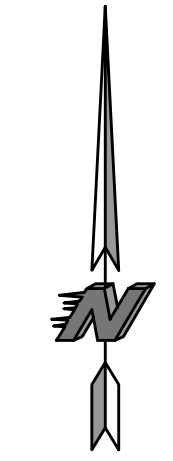
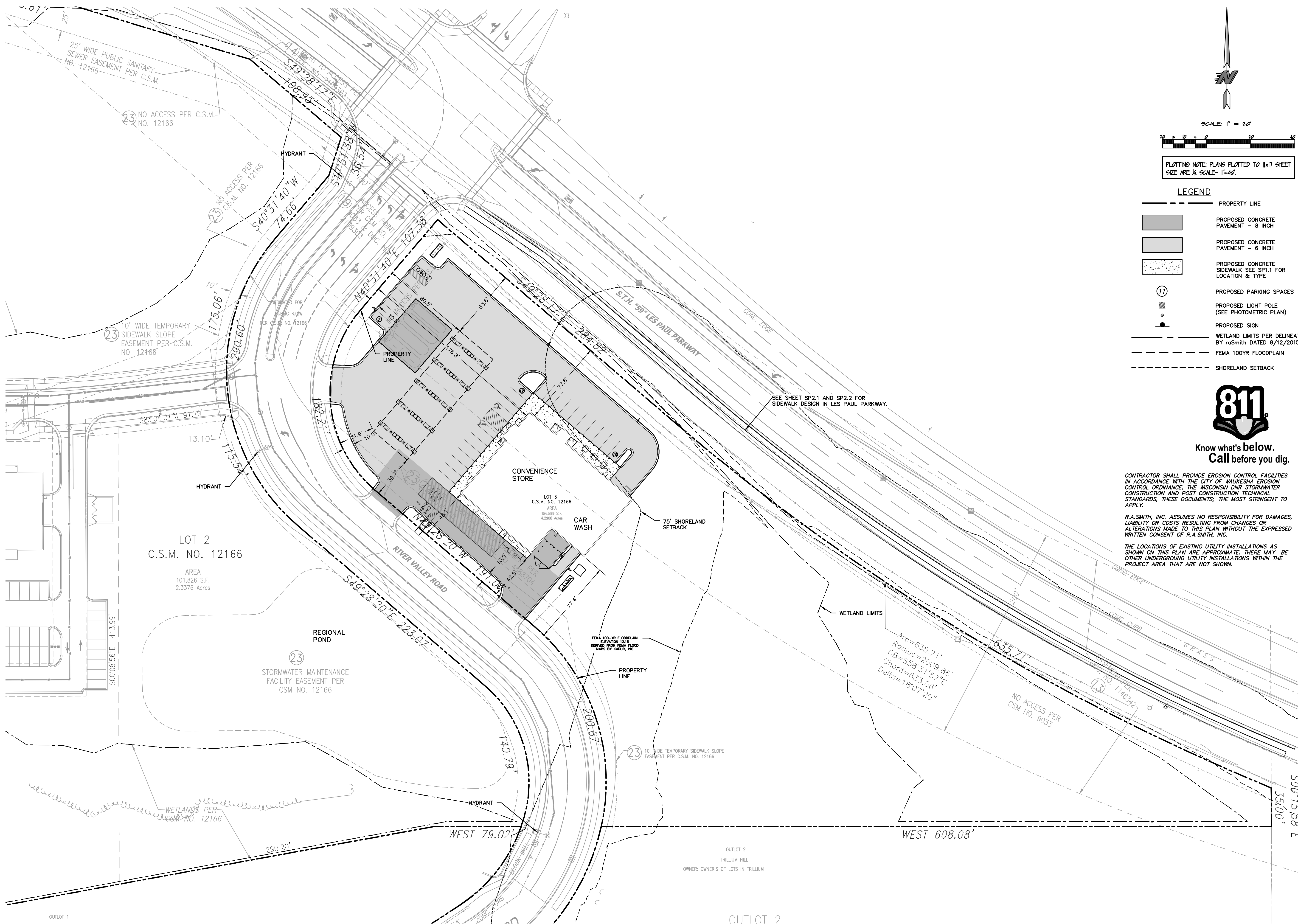
CONVENIENCE STORE #1219
SITE KEY NOTE PLAN

LES PAUL PARKWAY
WAUKESHA, WI

#	DATE	DESCRIPTION

DRAWN BY	CBW
SCALE	GRAPHIC
PROJ. NO.	3210028
DATE	10/20/2021
SHEET	SP1.1

23
STORMWATER MAINTENANCE FACILITY EASEMENT PER



SCALE: 1" = 20'



PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/4" SCALE - 1"=40'

LEGEND

- PROPERTY LINE
- PROPOSED CONCRETE PAVEMENT - 8 INCH
- PROPOSED CONCRETE PAVEMENT - 6 INCH
- PROPOSED CONCRETE SIDEWALK SEE SP1.1 FOR LOCATION & TYPE
- PROPOSED PARKING SPACES
- PROPOSED LIGHT POLE (SEE PHOTOMETRIC PLAN)
- PROPOSED SIGN
- WETLAND LIMITS PER DELINEATION BY raSmith DATED 8/12/2015
- FEMA 100YR FLOODPLAIN
- SHORELAND SETBACK



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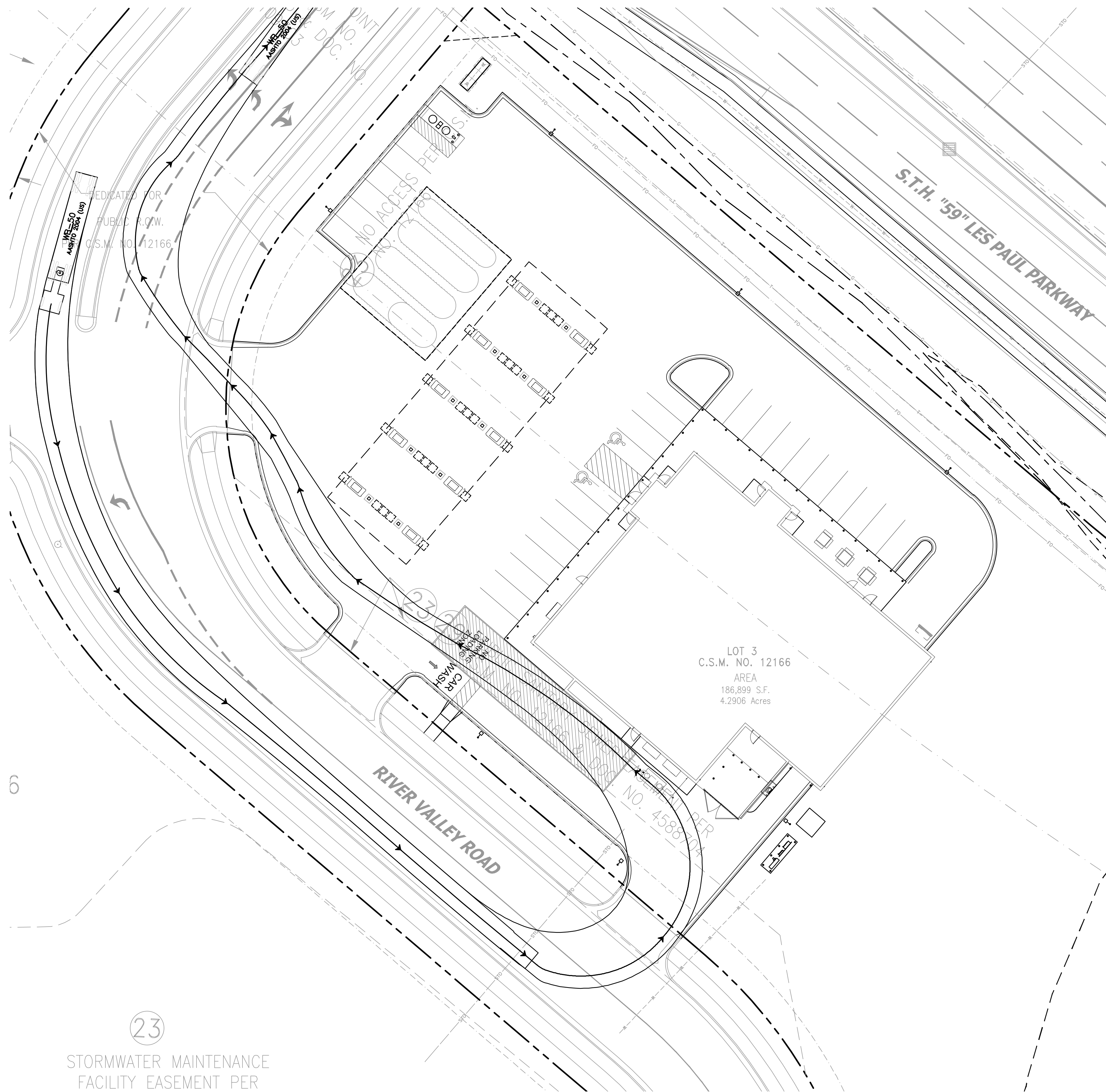
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**CONVENIENCE STORE #1219
 OVERALL SITE PLAN**
 LES PAUL PARKWAY
 WAUKESHA, WI

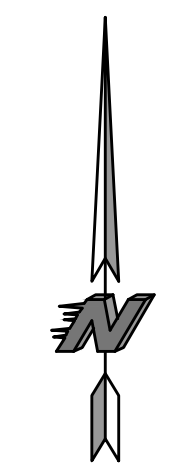
#	DATE	DESCRIPTION

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PROJ. NO.	3210028
DATE	10/20/2021
SHEET	SP1.2



LEGEND

- PROPERTY LINE
- PROPOSED LIGHT POLE (SEE PHOTOMETRIC PLAN)
- PROPOSED SIGN

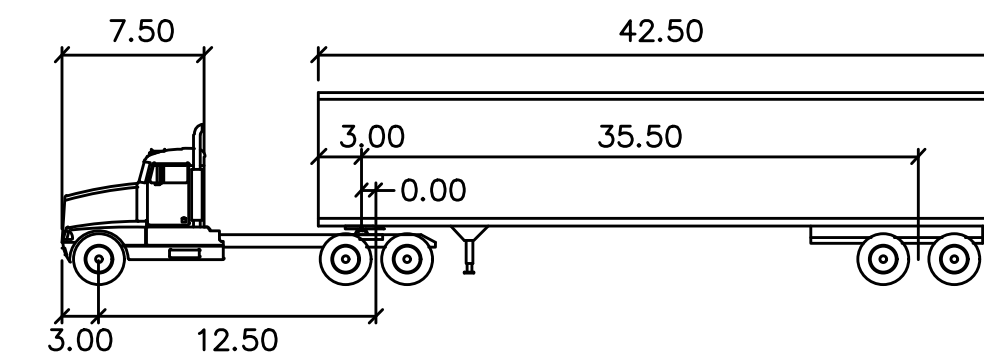


SCALE: 1" = 20'



PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET
SIZE ARE 1/2" SCALE- 1"=40'

GROCERY ROUTE



WB-50

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 17.7
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

**Kwik
TRIP**

**Kwik
STAR**

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CONVENIENCE STORE #1219
SITE CIRCULATION PLAN

LES PAUL PARKWAY
WAUKESHA, WI



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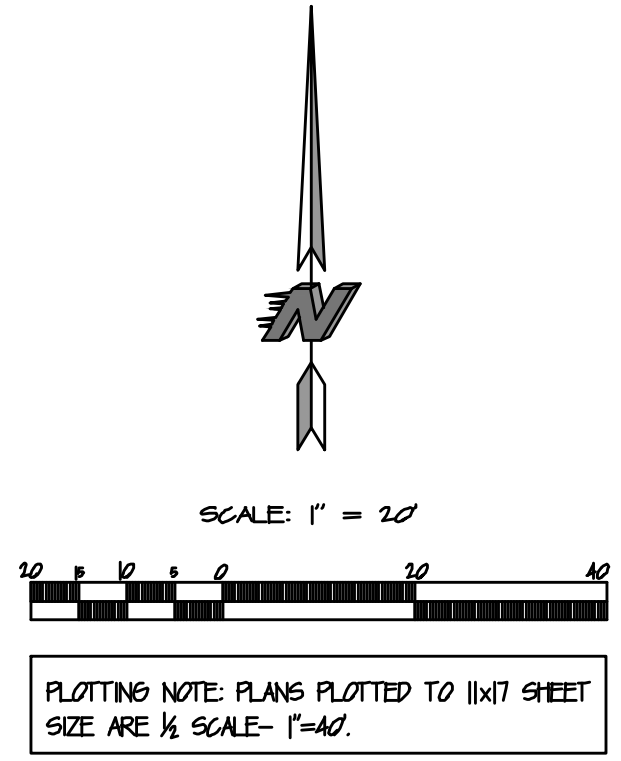
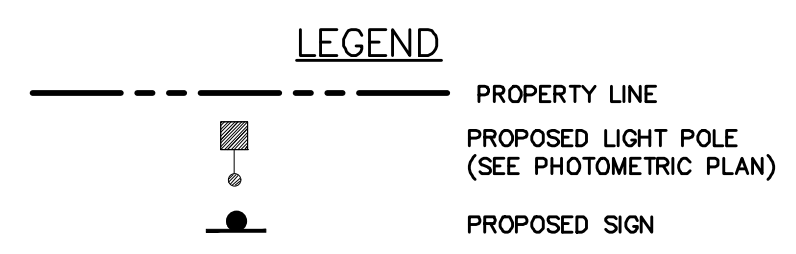
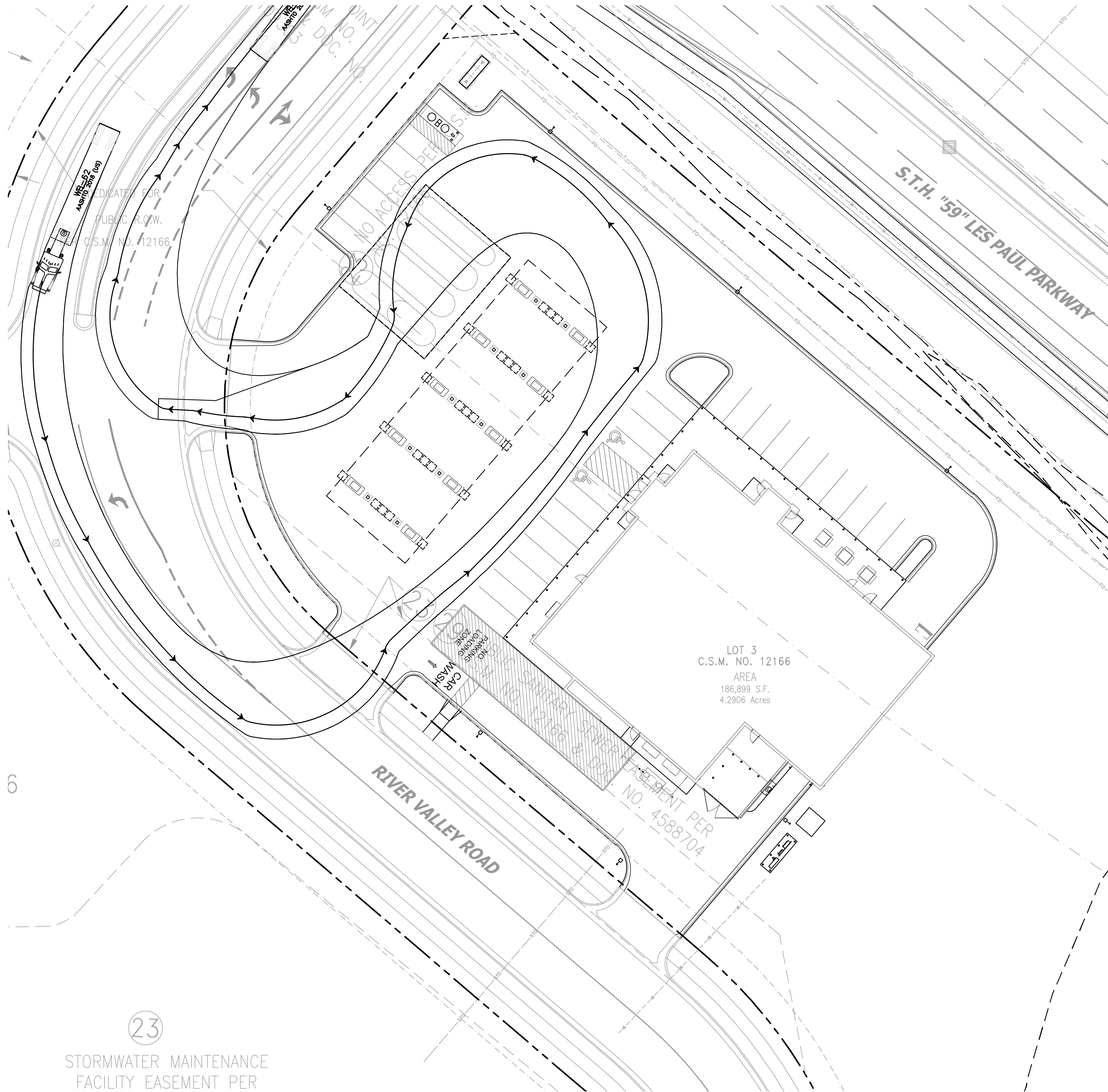
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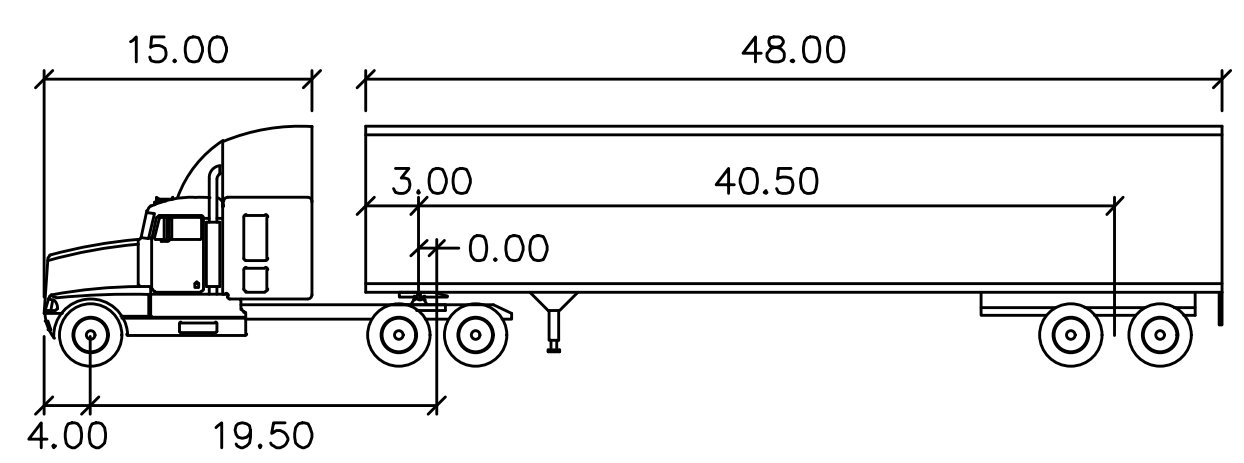
#	DATE	DESCRIPTION

DRAWN BY	CBW
SCALE	GRAPHIC
PROJ. NO.	3210028
DATE	10/20/2021
SHEET	SP1.3

23
STORMWATER MAINTENANCE
FACILITY EASEMENT PER



FUEL ROUTE



WB-62

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		



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SITE CIRCULATION PLAN
LES PAUL PARKWAY
WAUKESHA, WI

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SHEET	SP1.4



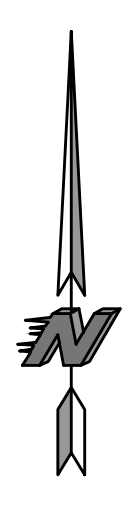
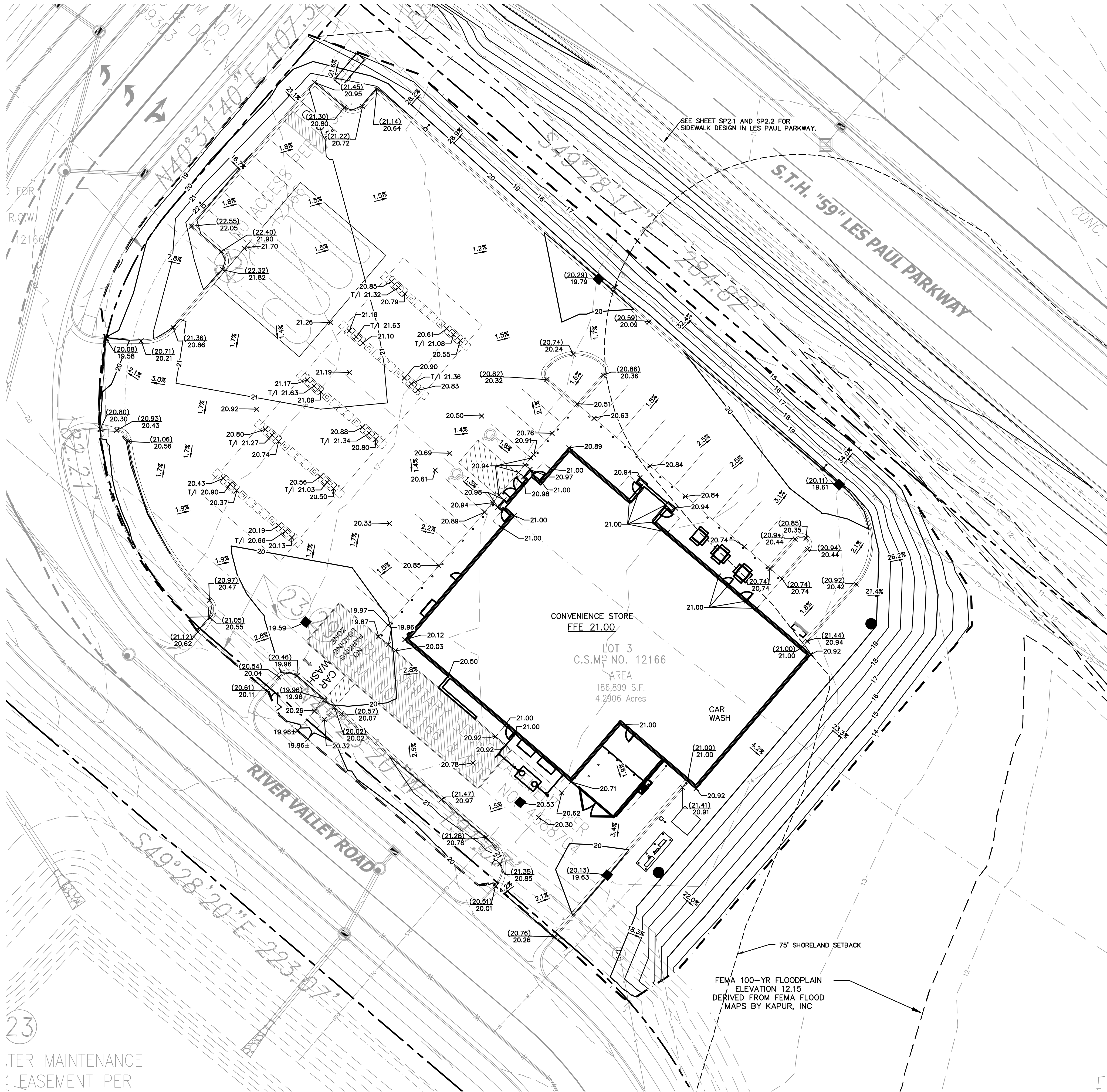
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STORMWATER MAINTENANCE
FACILITY EASEMENT PER



SCALE: 1" = 20'



PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2" SCALE - 1"=40'

LEGEND

- PROPERTY LINE
- (840.00) X EXISTING SPOT ELEVATION
- 840 EXISTING CONTOURS
- 840 PROPOSED CONTOURS
- 840.00 PROPOSED SPOT GRADES
- (840.00) X PROPOSED TOP OF CURB GRADE
- T/1 840.00 X PROPOSED TOP OF ISLAND GRADE
- PROPOSED STORM INLETS / MANHOLES
- WETLAND LIMITS PER DELINEATION BY raSmith DATED 8/12/2015
- FEMA 100YR FLOODPLAIN
- LIMITS OF DISTURBANCE = 1.65 ACRES

NOTES:

- CONTRACTOR TO OBTAIN RIGHT-OF-WAY EXCAVATION PERMIT PRIOR TO BEGINNING SITE WORK.
- CONSTRUCTION FENCING TO BE INSTALLED AROUND ENTIRE CONSTRUCTION SITE. COORDINATE WITH OWNER FOR FENCING AND GATE LOCATIONS AND APPROPRIATE SIGNAGE INSTALLATION.
- REFER TO OTHER PROJECT PLANS AND INFORMATION RELATED TO THIS PROJECT PRIOR TO BEGINNING ANY GRADING WORK.
- CONTRACTOR SHALL LOCATE ALL UTILITIES WHICH MAY AFFECT THIS WORK PRIOR TO CONSTRUCTION AND NOTIFY OWNER OF ANY CONFLICTS.
- CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED ELEVATIONS PRIOR TO START OF CONSTRUCTION. VERIFY CRITICAL ELEVATIONS TO ENSURE CONFORMANCE WITH GRADING PLAN, PARTICULARLY WITH WALK AND/OR PAVEMENTS TO REMAIN. MEET EXISTING GRADES ALONG STREETS, PROPERTY LINES AND DRIVEWAY ENTRANCES. RESTORE ALL EXISTING PAVEMENTS THAT REMAIN TO THEIR ORIGINAL, IF NOT BETTER CONDITION. NOTIFY OWNER OF ANY CONFLICTS.
- AREAS NOT PAVED AND TO BE LANDSCAPED SHALL RECEIVE MINIMUM OF 4" DEPTH COMPACTED TOPSOIL.
- CONTRACTOR SHALL COORDINATE GRADING AND INSTALLATION OF DRIVES IN R.O.W. WITH APPROPRIATE GOVERNMENT AGENCIES. OBTAIN APPROPRIATE PERMITS FOR GRADING AND DRAINAGE IN ALL R.O.W.
- REFER TO OWNER'S SPECIFICATIONS FOR CURB, APPROACH, BITUMINOUS, AND CONCRETE PROFILES, AS WELL AS ADDITIONAL SITE STANDARDS RELATED TO THIS PROJECT.
- ANY PROPERTY IRONS THAT ARE DISTURBED IN THE GRADING PROCESS SHALL BE RESET BY A LICENSED LAND SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.

FINISHED FLOOR ELEV.
PROPOSED KWIK TRIP CONVENIENCE STORE & CARWASH = FINISHED FLOOR ELEVATION = 21.00 FEET

EXISTING CONDITIONS:

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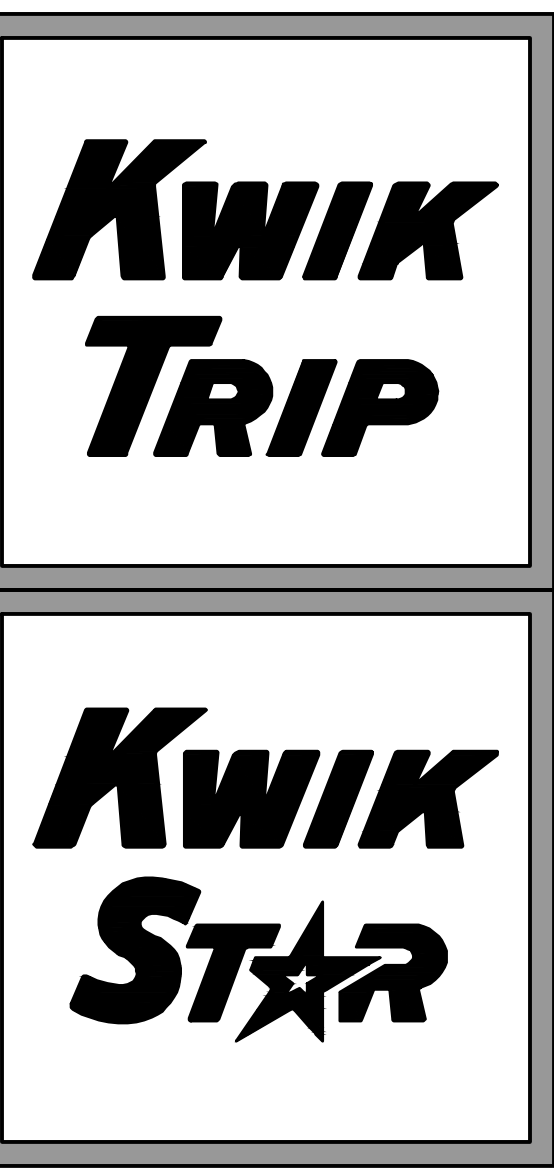


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CONVENIENCE STORE #1219 GRADING PLAN

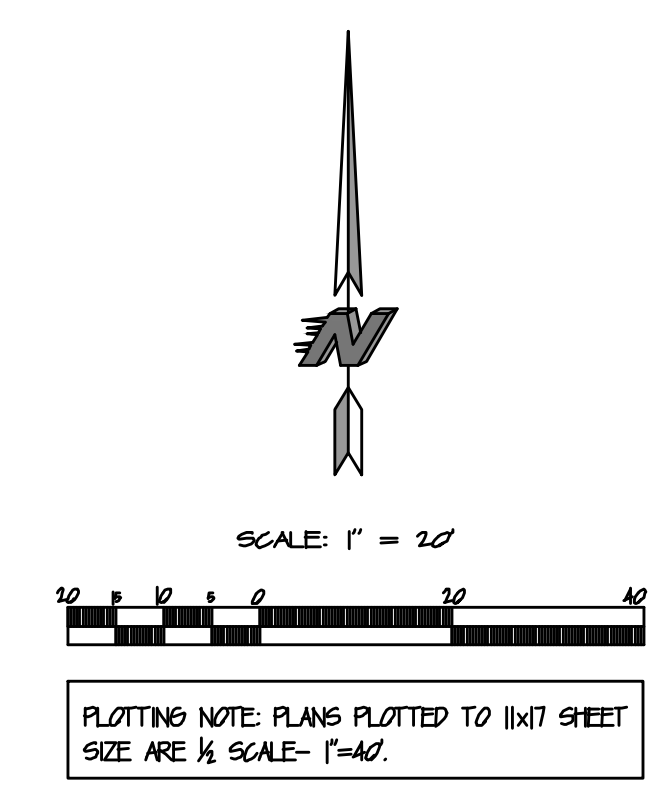
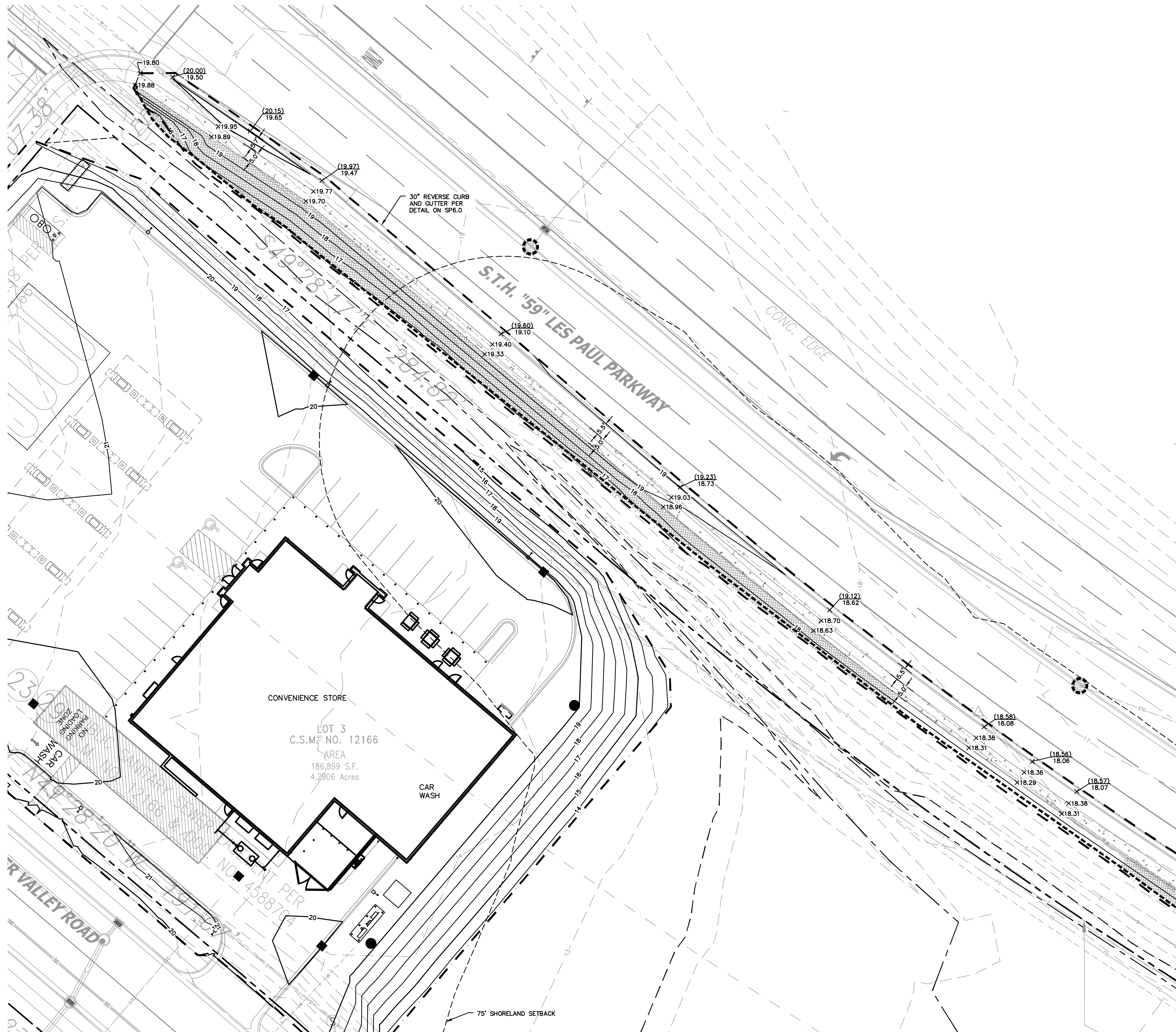
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PROJ. NO.	3210028
DATE	10/20/2021
SHEET	SP2.0

23

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LEGEND

---	PROPERTY LINE
—X—	EXISTING SPOT ELEVATION
- - -	EXISTING CONTOURS
—	PROPOSED CONTOURS
—X—	PROPOSED SPOT GRADES
—X—	PROPOSED TOP OF CURB GRADE
—X—	PROPOSED TOP OF ISLAND GRADE
●	PROPOSED STORM INLETS / MANHOLES
- - -	WETLAND LIMITS PER DELINEATION BY raSmith DATED 8/12/2015
- - -	FEMA 100YR FLOODPLAIN
- - -	LIMITS OF DISTURBANCE = 2.10 ACRES
- - -	PROPOSED SILT FENCE
[Pattern]	PROPOSED CONCRETE SIDEWALK
[Pattern]	TEMPORARY EROSION CONTROL MATTING
○	STORM DRAIN INLET PROTECTION



KWIK TRIP, Inc.
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Brookfield, WI 53005-5938
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PRELIMINARY PLANS FOR
MUNICIPAL REVIEW ONLY

CONVENIENCE STORE #1219
DETAILED SIDEWALK GRADING PLAN
LES PAUL PARKWAY
WAUKESHA, WI



Know what's below.
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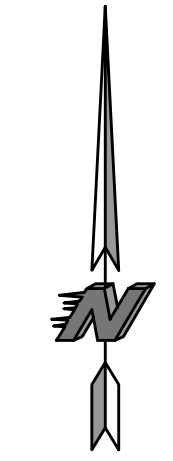
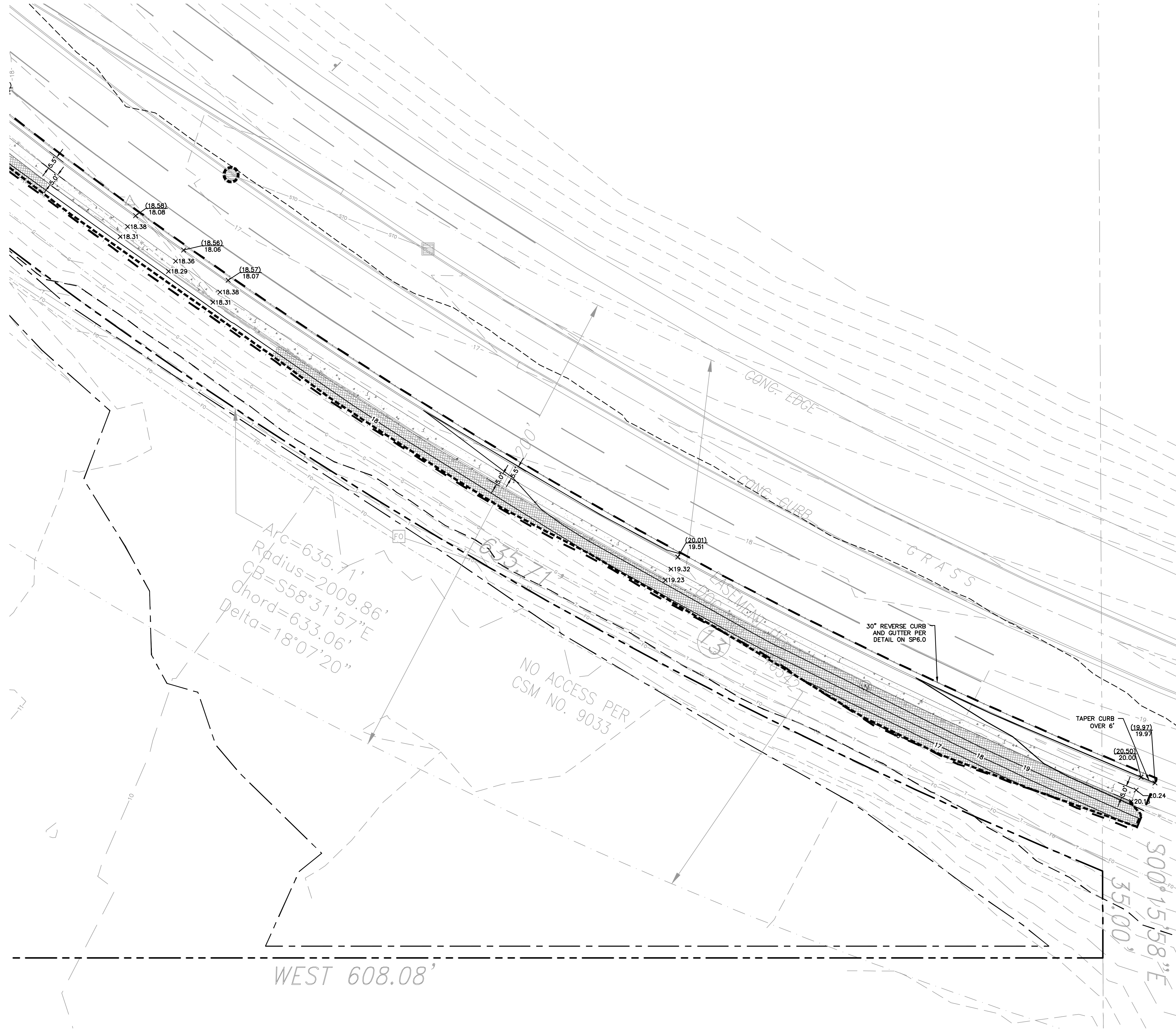
CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE CITY OF WAUKESHA EROSION CONTROL ORDINANCE, THE WISCONSIN DNR STORMWATER CONSTRUCTION AND POST CONSTRUCTION TECHNICAL STANDARDS, THESE DOCUMENTS, THE MOST STRINGENT TO APPLY.

R.A. SMITH, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A. SMITH, INC.

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

#	DATE	DESCRIPTION

DRAWN BY	CBW
SCALE	GRAPHIC
PROJ. NO.	3210028
DATE	10/20/2021
SHEET	SP2.1



SCALE: 1" = 20'

PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2" SCALE - 1"=40'

LEGEND

- PROPERTY LINE
- EXISTING SPOT ELEVATION
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED SPOT GRADES
- PROPOSED TOP OF CURB GRADE
- T/1 840.00
- PROPOSED TOP OF ISLAND GRADE
- PROPOSED STORM INLETS / MANHOLES
- WETLAND LIMITS PER DELINEATION BY raSmith DATED 8/12/2015
- FEMA 100YR FLOODPLAIN
- LIMITS OF DISTURBANCE = 2.15 ACRES
- PROPOSED SILT FENCE
- PROPOSED CONCRETE SIDEWALK
- TEMPORARY EROSION CONTROL MATTING
- STORM DRAIN INLET PROTECTION

Kwik TRIP

Kwik STAR

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LES PAUL PARKWAY
WAUKESHA, WI



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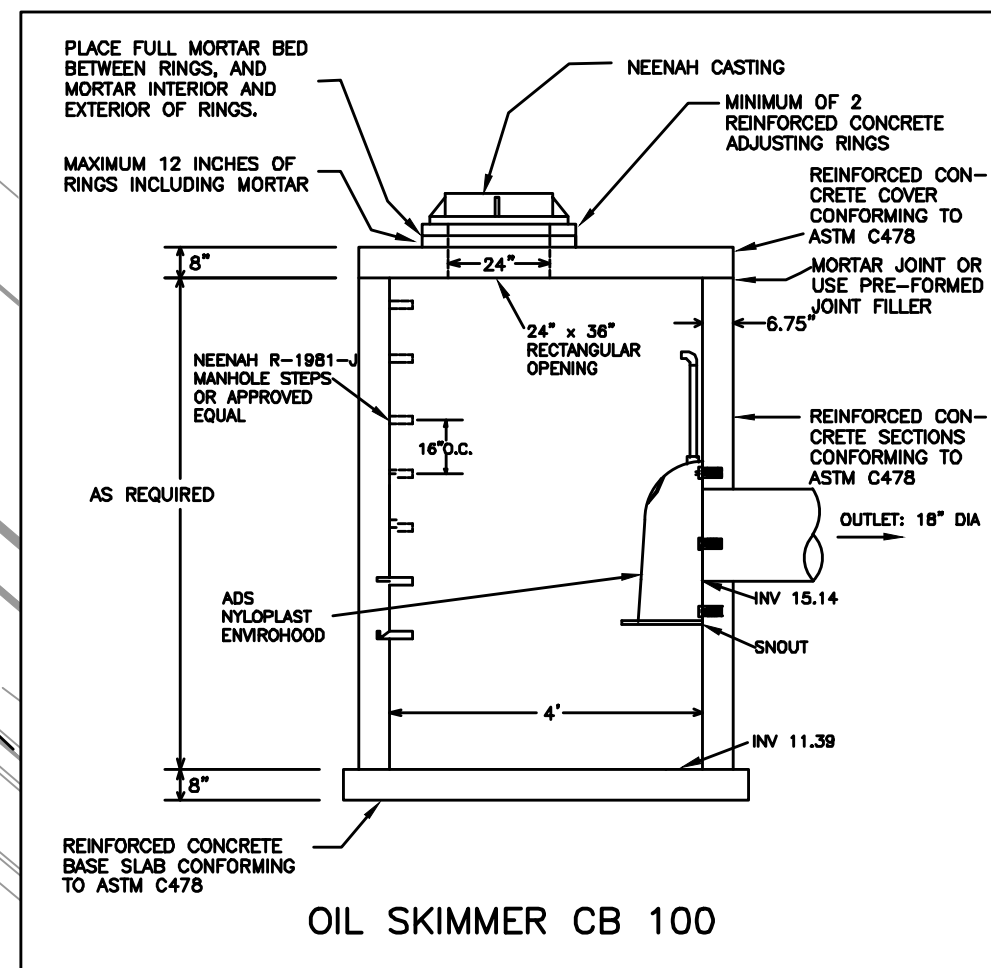
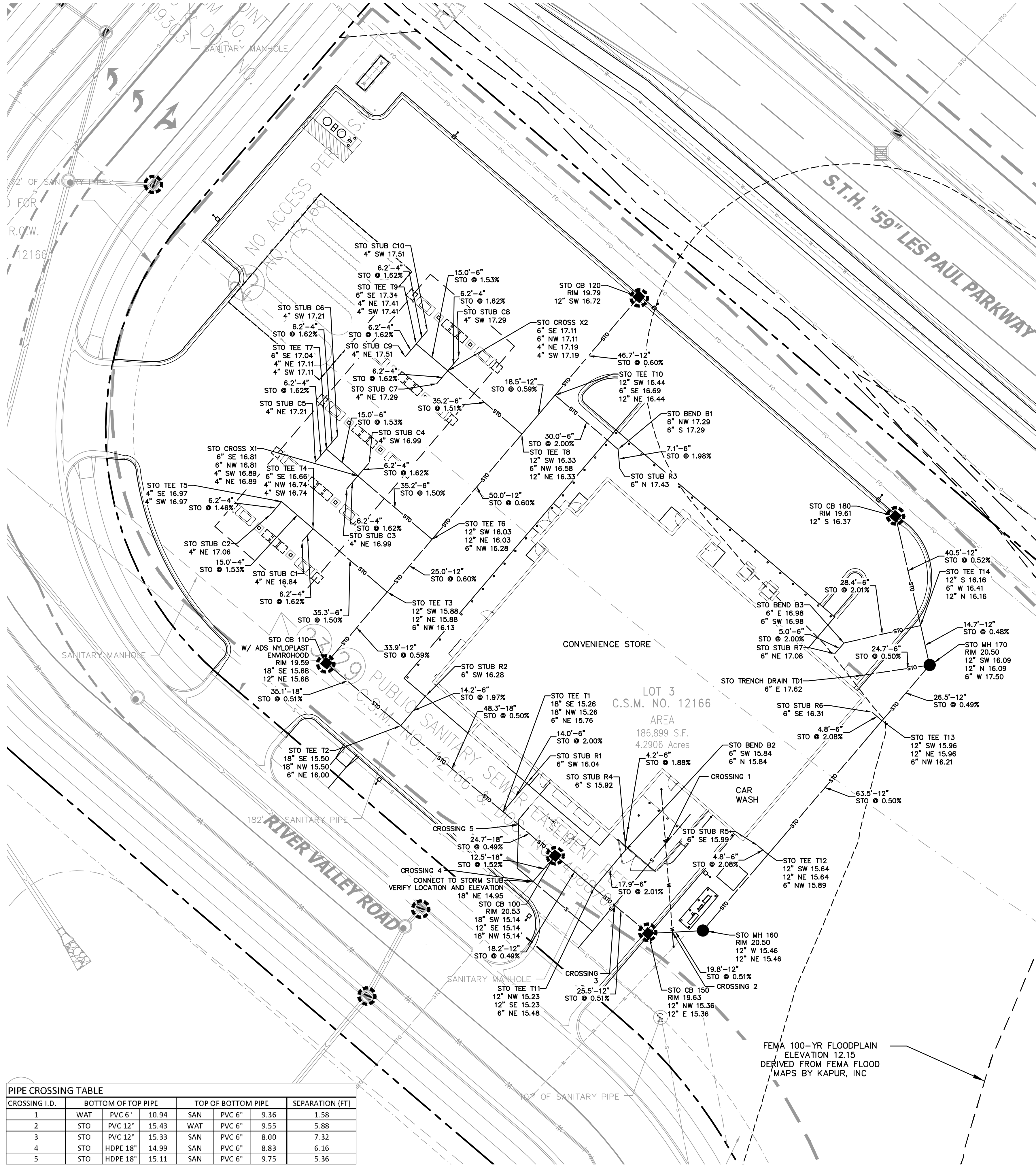
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#	DATE	DESCRIPTION

DRAWN BY	CBW
SCALE	GRAPHIC
PROJ. NO.	3210028
DATE	10/20/2021
SHEET	SP2.2



SCALE: 1" = 20'

PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET
SIZE ARE 1/2" SCALE - 1"=40'

LEGEND

- PROPERTY LINE
- EXISTING CURB
- PROPOSED 18" CURB & GUTTER
- STO --- PROPOSED STORM SEWER LINE
- PROPOSED STORM INLET/ MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLETS
- PROPOSED LIGHT POLE (SEE PHOTOMETRIC PLAN)
- PROPOSED TRANSFORMER
- STORM DRAIN INLET PROTECTION

- STORM DRAINAGE:**
- UNLESS OTHERWISE INDICATED, USE REINFORCED, PRECAST, CONCRETE MAINTENANCE HOLES AND CATCH BASINS CONFORMING TO ASTM C478, FURNISHED WITH WATER STOP RUBBER GASKETS AND PRECAST BASES. JOINTS FOR ALL PRECAST MAINTENANCE HOLE SECTIONS SHALL HAVE CONFINED, RUBBER "O"-RING GASKETS IN ACCORDANCE WITH ASTM 9923. THE INSIDE BARREL DIAMETER SHALL NOT BE LESS THAN 48 INCHES.
 - ALL JOINTS AND CONNECTIONS TO CATCH BASINS OR MANHOLES SHALL BE WATERTIGHT. USE RESILIENT RUBBER SEALS, WATERSTOP GASKETS, OR APPROVED EQUAL. CEMENT MORTAR JOINTS ARE NOT ALLOWED.
 - INSTALL CATCH BASIN CASTINGS WITH SPECIFIED TOP ELEVATION AT THE FLOW LINE.
 - TESTING: TEST ALL PORTIONS OF STORM SEWER THAT ARE WITHIN 10 FEET OF BUILDINGS, WITHIN 10 FEET OF BURIED WATER LINES, WITHIN 50 FEET OF WATER WELLS, OR THAT PASS THROUGH SOIL OR WATER IDENTIFIED AS BEING CONTAMINATED. TEST ALL FLEXIBLE STORM SEWER LINES FOR DEFLECTION AFTER THE SEWER LINE HAS BEEN INSTALLED AND BACKFILL HAS BEEN IN PLACE FOR AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5% IF THE TEST FAILS, MAKE NECESSARY REPAIRS AND RETEST.
 - PVC PIPE: USE SOLID-CORE, SDR-35, ASTM D3034 POLYVINYL CHLORIDE (PVC) PIPE FOR DESIGNATED PVC STORM SEWER SERVICES 4 TO 15-INCHES IN DIAMETER. USE SOLID-CORE, SDR-35, ASTM F679 POLYVINYL CHLORIDE (PVC) PIPE FOR DESIGNATED PVC STORM SEWER SERVICES 18 TO 27-INCHES IN DIAMETER. JOINTS FOR ALL STORM SEWER SHALL HAVE PUSH-ON JOINTS WITH ELASTOMERIC GASKETS. LAY ALL PVC PIPE ON A CONTINUOUS GRANULAR BED. INSTALLATION MUST COMPLY WITH ASTM D2321.
 - RCP: REINFORCED CONCRETE PIPE (RCP) AND FITTINGS SHALL CONFORM TO ASTM C76, DESIGN C, WITH CIRCULAR REINFORCING FOR THE CLASS OF PIPE SPECIFIED. USE CLASS IV RCP FOR PIPES 21" AND LARGER. USE CLASS V RCP FOR PIPES 18" AND SMALLER. JOINTS SHALL BE BUREAU OF RECLAMATION TYPE R-4, WITH CONFINED RUBBER "O"-RING GASKETS IN ACCORDANCE WITH ASTM C361.
 - USE NEEHAH R-3067-R CASTING WITH CURB BOX, OR APPROVED EQUAL, ON CB. USE NEEHAH R-2501-C CASTING OR APPROVED EQUAL, ON INL. USE NEEHAH FOUNDRY CO. R-1642 CASTING WITH SELF-SEALING, SOLID, TYPE B LID, OR APPROVED EQUAL, ON ALL STORM SEWER MAINTENANCE HOLES AND MANHOLES. COVERS SHALL BEAR THE "STORM SEWER" LABEL. CONTRACTOR RESPONSIBLE FOR VERIFYING REQUIRED CASTING IS COMPATIBLE WITH STRUCTURE. IF NOT COMPATIBLE, CONTACT ENGINEER IMMEDIATELY FOR POSSIBLE REDESIGN.
 - INSTALL DETECTABLE UNDERGROUND MARKING TAPE DIRECTLY ABOVE ALL PVC, POLYETHYLENE, AND OTHER NONCONDUCTIVE UNDERGROUND UTILITIES AT A DEPTH OF 457 MM (18 INCHES) BELOW FINISHED GRADE, UNLESS OTHERWISE INDICATED. BRING THE TAPE TO THE SURFACE AT VARIOUS LOCATIONS IN ORDER TO PROVIDE CONNECTION POINTS FOR LOCATING UNDERGROUND UTILITIES. INSTALL BLUE RHINO TRIVIEW FLEX TEST STATIONS, OR APPROVED EQUAL, WITH BLACK CAPS AT EACH SURFACE LOCATION.
 - TRACER WIRE: LOCATING REQUIREMENTS - A MEANS TO LOCATE BURIED UNDERGROUND EXTERIOR NON METALLIC SEWERS/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORD WITH THE PROVISIONS OF THESE CODE SECTIONS AS PER 182.0715(2)(b) OF THE STATUTES.
 - CLEANOUTS: INSTALL CLEANOUTS ON ALL ROOF DRAINS. CLEANOUTS SHALL BE INSTALLED AT EVERY T CONNECTION AND BEND. THE DISTANCE BETWEEN CLEANOUTS IN HORIZONTAL PIPING SHALL NOT EXCEED 100 FEET FOR PIPES 10-INCHES AND UNDER IN SIZE. CLEANOUT SHALL BE OF THE SAME NOMINAL SIZE AS THE PIPES THEY SERVE. INSTALL A METER BOX FRAME AND SOLID LID (NEENAH R-1914-A, OR APPROVED EQUAL) OVER ALL CLEANOUTS.
 - THE MINIMUM DEPTH OF COVER FOR BUILDING AND CANOPY ROOF DRAIN LEADERS WITHOUT INSULATION IS 5 FEET. INSULATE ROOF DRAIN LEADERS AT LOCATIONS WHERE THE DEPTH OF COVER IS LESS THAN 5 FEET. PROVIDE A MINIMUM INSULATION THICKNESS OF 2 INCHES. THE INSULATION MUST BE AT LEAST 4 FEET WIDE AND CENTERED ON THE PIPE. INSTALL THE INSULATION BOARDS 6 INCHES ABOVE THE TOPS OF THE PIPES ON MECHANICALLY COMPACTED AND LEVELED PIPE BEDDING MATERIAL. USE HIGH DENSITY, CLOSED CELL, RIGID BOARD MATERIAL EQUIVALENT TO DOW STYROFOAM HI-40 PLASTIC FOAM INSULATION.
 - INSTALL ALL PIPE WITH THE ASTM IDENTIFICATION NUMBERS ON THE TOP FOR INSPECTION. COMMENCE PIPE LAYING AT THE LOWEST POINT IN THE PROPOSED SEWER LINE. LAY THE PIPE WITH THE BELL AND/OR RECEIVING GROOVE END OF THE PIPE POINTING UPGRADE. WHEN CONNECTING TO AN EXISTING PIPE, UNCOVER THE EXISTING PIPE IN ORDER TO ALLOW ANY ADJUSTMENTS IN THE PROPOSED LINE AND GRADE BEFORE LAYING ANY PIPE. DO NOT LAY PIPES IN WATER OR WHEN THE TRENCH CONDITIONS ARE UNSUITABLE FOR SUCH WORK.
 - TRENCH SECTION SHALL BE CLASS "C" FOR CONCRETE AND CLASS "B" FOR ALL OTHER MATERIALS.

PIPE CROSSING TABLE

CROSSING I.D.	BOTTOM OF TOP PIPE	TOP OF BOTTOM PIPE	SEPARATION (FT)
1	WAT PVC 6"	SAN PVC 6"	1.58
2	STO PVC 12"	WAT PVC 6"	5.88
3	STO PVC 12"	SAN PVC 6"	7.32
4	STO HDPE 18"	SAN PVC 6"	6.16
5	STO HDPE 18"	SAN PVC 6"	5.36



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PRELIMINARY PLANS FOR
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CONVENIENCE STORE #1219
STORM SEWER PLAN

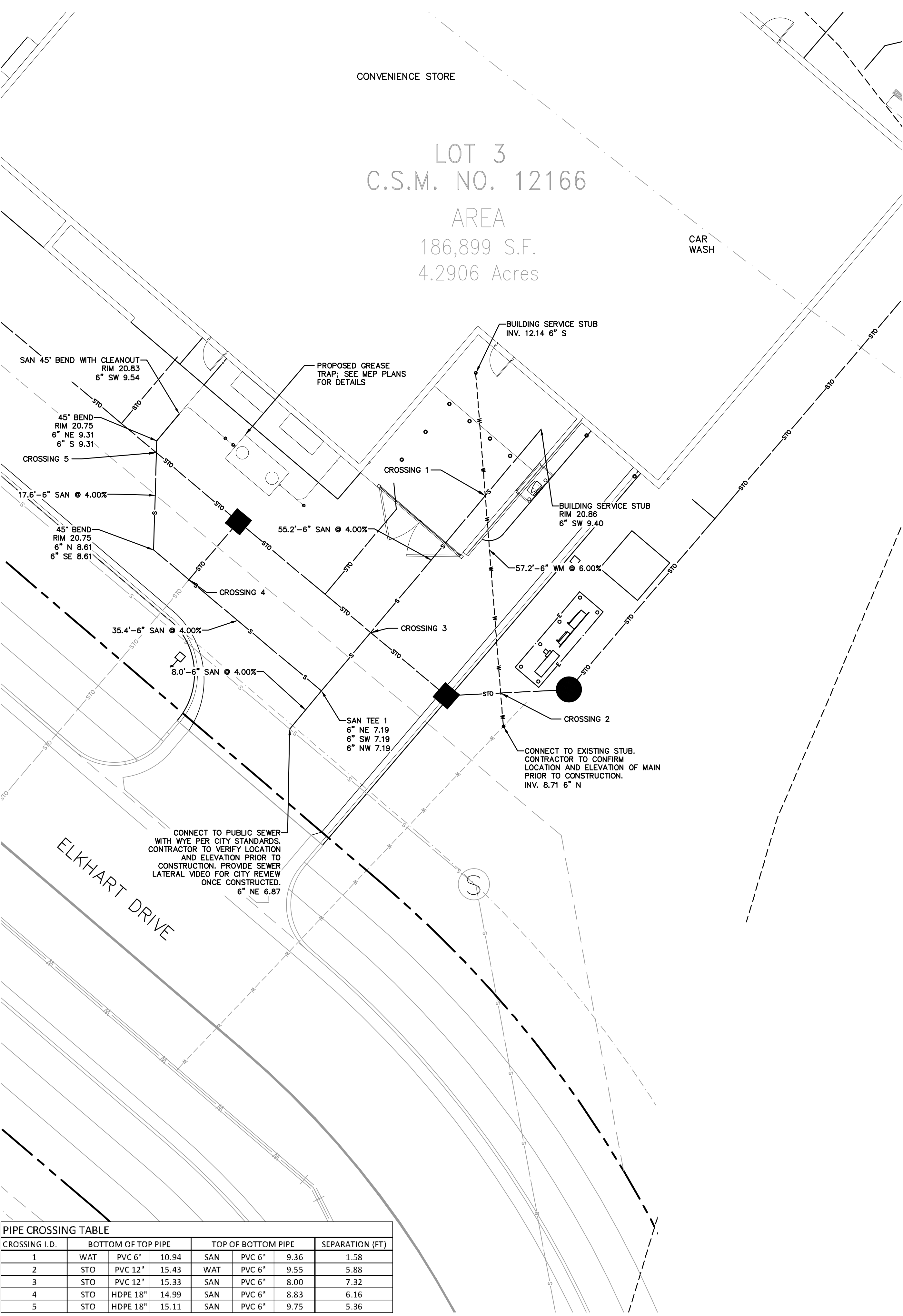
LES PAUL PARKWAY
WAUKESHA, WI

#	DATE	DESCRIPTION

DRAWN BY: CBW
SCALE: GRAPHIC
PROJ. NO.: 3210028
DATE: 10/20/2021
SHEET: SP3.0

CONVENIENCE STORE

LOT 3
C.S.M. NO. 12166
AREA
186,899 S.F.
4.2906 Acres

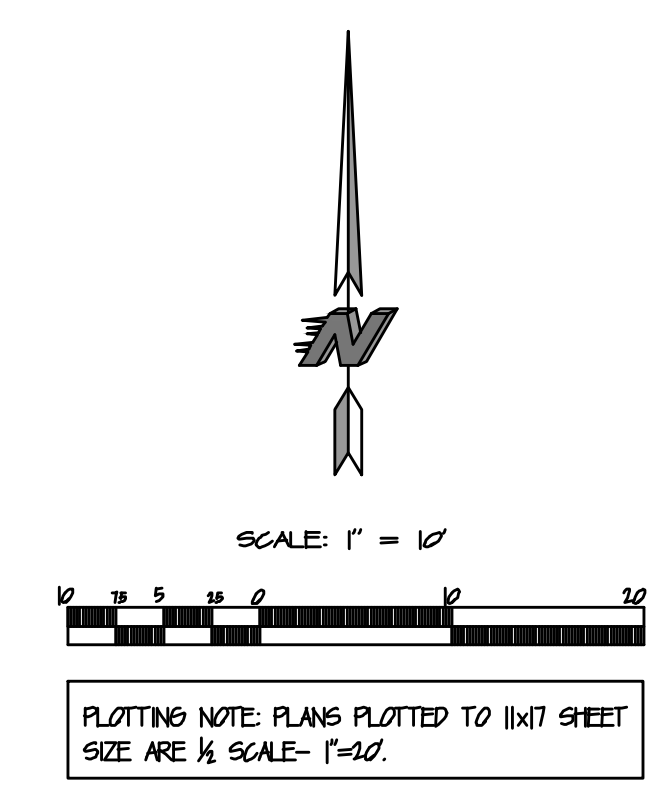


CROSSING I.D.	BOTTOM OF TOP PIPE	TOP OF BOTTOM PIPE	SEPARATION (FT)
1	WAT PVC 6" 10.94	SAN PVC 6" 9.36	1.58
2	STO PVC 12" 15.43	WAT PVC 6" 9.55	5.88
3	STO PVC 12" 15.33	SAN PVC 6" 8.00	7.32
4	STO HDPE 18" 14.99	SAN PVC 6" 8.83	6.16
5	STO HDPE 18" 15.11	SAN PVC 6" 9.75	5.36

- GENERAL :**
- COMPLY WITH THE WORK SAFETY PRACTICES SPECIFIED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS. OSHA PROHIBITS ENTRY INTO "CONFINED SPACES," SUCH AS MANHOLES AND INLETS (SEE 29 CFR SECTION 1910.146), WITHOUT UNDERTAKING CERTAIN SPECIFIC PRACTICES AND PROCEDURES. CONSTRUCTION SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR, WHO IS ALSO SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCING OF THE CONSTRUCTION OPERATIONS.
 - PERFORM ALL UTILITY WORK IN ACCORDANCE WITH STATE AND VILLAGE REQUIREMENTS.
 - CONNECT TO EXISTING SANITARY SEWER MH'S BY COREDRILLING. CONNECT TO EXISTING STORM SEWER MH'S BY EITHER SAWCUTTING OR COREDRILLING. USE SAWS OR DRILLS THAT PROVIDE WATER TO THE BLADE. MEET ALL CITY STANDARDS AND SPECIFICATIONS FOR THE CONNECTION. RECONSTRUCT INVERTS AFTER INSTALLATION. USE WATER STOP GASKETS IN ORDER TO PROVIDE WATERTIGHT SEALS WHEN PENETRATING A STRUCTURE WALL WITH A PIPE. TAKE MEASUREMENTS BEFORE BEGINNING CONSTRUCTION TO ENSURE THAT SERVICE CONNECTIONS DO NOT CUT INTO MAINTENANCE ACCESS STRUCTURE JOINTS OR PIPE BARREL JOINTS. DO NOT ALLOW THE SLURRY PRODUCED BY THIS PROCESS TO BE TRACKED OUTSIDE OF THE IMMEDIATE WORK AREA OR DISCHARGED INTO THE SEWER SYSTEM.
 - PERFORM TRENCH EXCAVATIONS FOR ALL UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF O.S.H.A. 29 CFR, PART 1926, SUBPART P, "EXCAVATIONS AND TRENCHES." (WWW.OSHA.GOV)
 - COORDINATE BUILDING UTILITY CONNECTION LOCATIONS AT 5 FT. OUT FROM THE PROPOSED BUILDING WITH THE WITH THE INTERIOR PLUMBING CONTRACTOR PRIOR TO CONSTRUCTION. VERIFY WATER AND SEWER SERVICE LOCATIONS AND CITY UTILITIES WITH THE MECHANICAL ENGINEER PRIOR TO CONSTRUCTION.
 - THE SUBSURFACE UTILITY INFORMATION SHOWN ON THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
 - THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN ARE FROM RECORD INFORMATION. THE ENGINEER DOES NOT GUARANTEE THAT ALL EXISTING UTILITIES ARE SHOWN OR, IF SHOWN, EXIST IN THE LOCATIONS INDICATED ON THE PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE FINAL VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES (INCLUDING WATER AND SEWER LINES AND APPURTENANCES). NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - CONTACT UTILITY COMPANIES FOR LOCATIONS OF ALL PUBLIC AND PRIVATE UTILITIES WITHIN THE WORK AREA PRIOR TO BEGINNING CONSTRUCTION. CONTACT DIGGER'S HOTLINE AT (414) 259-1181 IN THE MILWAUKEE METRO AREA, OR 1-800-242-8511 ELSEWHERE IN WISCONSIN FOR EXACT LOCATIONS OF EXISTING UTILITIES AT LEAST 72 HOURS (NOT INCLUDING WEEKENDS AND HOLIDAYS) BEFORE BEGINNING ANY CONSTRUCTION. OBTAIN TICKET NUMBER AND MEET WITH REPRESENTATIVES OF THE VARIOUS UTILITIES AT THE SITE. PROVIDE THE OWNER WITH THE TICKET NUMBER INFORMATION. DIGGER'S HOTLINE IS A FREE SERVICE THAT LOCATES MUNICIPAL AND UTILITY COMPANY LINES, BUT DOES NOT LOCATE PRIVATE UTILITY LINES. USE AN INDEPENDENT LOCATOR SERVICE OR OTHER MEANS IN ORDER TO OBTAIN LOCATIONS OF PRIVATE UTILITY LINES INCLUDING, BUT NOT LIMITED TO, UNDERGROUND ELECTRIC CABLES, TELEPHONE, TV, AND LAWN SPRINKLER LINES.
 - POTHOLE TO VERIFY THE POSITIONS OF EXISTING UNDERGROUND FACILITIES AT A SUFFICIENT NUMBER OF LOCATIONS IN ORDER TO ASSURE THAT NO CONFLICT WITH THE PROPOSED WORK EXISTS AND THAT SUFFICIENT CLEARANCE IS AVAILABLE.
 - WHERE EXISTING GAS, ELECTRIC, CABLE, OR TELEPHONE UTILITIES CONFLICT WITH THE WORK, COORDINATE THE ABANDONMENT, RELOCATION, OFFSET, OR SUPPORT OF THE EXISTING UTILITIES WITH THE APPROPRIATE LOCAL UTILITY COMPANIES. COORDINATE NEW GAS METER AND GAS LINE INSTALLATION, ELECTRIC METER AND ELECTRIC SERVICE INSTALLATION, CABLE SERVICE, AND TELEPHONE SERVICE INSTALLATION WITH THE LOCAL UTILITY COMPANIES.
 - ARRANGE FOR AND SECURE SUITABLE DISPOSAL AREAS OFF-SITE. DISPOSE OF ALL EXCESS SOIL, WASTE MATERIAL, STRUCTURE, AND WALL MATERIALS NOT DESIGNATED FOR SALVAGE. WASTE MATERIAL AND DEBRIS INCLUDES TREES, STUMPS, PIPE, CONCRETE, ASPHALTIC CONCRETE, CANS, OR OTHER WASTE MATERIAL FROM THE CONSTRUCTION OPERATIONS. OBTAIN THE RIGHTS TO ANY WASTE AREA FOR DISPOSAL OF UNSUITABLE OR SURPLUS MATERIAL EITHER SHOWN OR NOT SHOWN ON THE PLANS. ALL WORK IN DISPOSING OF SUCH MATERIAL SHALL BE CONSIDERED INCIDENTAL TO THE WORK. ALL DISPOSAL MUST CONFORM TO APPLICABLE SOLID WASTE DISPOSAL PERMIT REGULATIONS. OBTAIN ALL NECESSARY PERMITS AT NO COST TO THE OWNER.
 - STRAIGHT LINE SAW-CUT EXISTING BITUMINOUS OR CONCRETE SURFACING AT THE PERIMETER OF PAVEMENT REMOVAL AREAS. USE SAWS THAT PROVIDE WATER TO THE BLADE. TACK, AND MATCH ALL CONNECTIONS TO EXISTING BITUMINOUS PAVEMENT.
 - RELOCATE OVERHEAD POWER, TELEPHONE, AND CABLE LINES AS REQUIRED.
 - ALL MATERIALS REQUIRED FOR THIS WORK SHALL BE NEW MATERIAL CONFORMING TO THE REQUIREMENTS FOR CLASS, KIND, GRADE, SIZE, QUALITY, AND OTHER DETAILS SPECIFIED HEREIN OR AS SHOWN ON THE PLANS. DO NOT USE RECYCLED OR SALVAGED AGGREGATE, ASPHALTIC PAVEMENT, CRUSHED CONCRETE, OR SCRAP SHINGLES, UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL FURNISH ALL REQUIRED MATERIALS. SIDEWALKS OR VEGETATIVE COVER DAMAGED BY THE CONSTRUCTION ACTIVITY. RESTORE DAMAGED TURF WITH SOIL WITHIN THE PUBLIC RIGHT-OF-WAY. THE WORK AREA SHOWN IS GENERAL AND MAY NEED TO BE ADJUSTED IN THE FIELD.
 - ADJUST ALL CURB STOPS, VALVE BOXES, MAINTENANCE HOLE CASTINGS, CATCHBASIN CASTINGS, CLEANOUT COVERS, AND SIMILAR ITEMS TO FINISHED GRADE. INSTALL ALL PIPE WITH THE ASTM IDENTIFICATION NUMBERS ON THE TOP FOR INSPECTION. COMMENCE PIPE LAYING AT THE LOWEST POINT IN THE PROPOSED SEWER LINE. LAY THE PIPE WITH THE BELL END OR RECEIVING GROOVE END OF THE PIPE POINTING UPGRADE. WHEN CONNECTING TO AN EXISTING PIPE, UNCOVER THE EXISTING PIPE IN ORDER TO ALLOW ANY ADJUSTMENTS IN THE PROPOSED LINE AND GRADE BEFORE LAYING ANY PIPE. DO NOT LAY PIPES IN WATER OR WHEN THE TRENCH CONDITIONS ARE UNSUITABLE FOR SUCH WORK.
 - OBTAIN AND PAY FOR ALL PERMITS, TESTS, INSPECTIONS, ETC. REQUIRED BY AGENCIES THAT HAVE JURISDICTION OVER THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL BONDS, LETTERS OF CREDIT, OR CASH SURETIES RELATED TO THE WORK. EXECUTE AND INSPECT WORK IN ACCORDANCE WITH ALL LOCAL AND STATE CODES, RULES, ORDINANCES, OR REGULATIONS PERTAINING TO THE PARTICULAR TYPE OF WORK INVOLVED.
 - OBTAIN PERMITS FROM THE CITY FOR WORK IN THE PUBLIC RIGHT-OF-WAY.
 - CONSTRUCT SANITARY SEWER, WATERMAIN, AND STORM SEWER UTILITIES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, SIXTH EDITION, REVISIONS, OR CITY OF WAUKESHA SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY.
 - COORDINATE EXISTING UTILITY ABANDONMENT WITH THE CITY OF WAUKESHA. PERFORM ALL WORK IN ACCORDANCE WITH ALL CITY REQUIREMENTS.
 - ALL PROPOSED ON SITE UTILITIES ARE PRIVATE AND WILL BE MAINTAINED ACCORDINGLY.

- WATER DISTRIBUTION SYSTEM :**
- BRING ALL SITE UTILITIES TO 5' OUTSIDE OF THE BUILDING LINE WITH THE EXCEPTION OF THE WATER SERVICE. EXTEND WATER SERVICE INTO THE BUILDING AND UP TO THE FLANGE FOR THE WATER METER.
 - SEPARATION OF WATER AND SEWER: PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 8 FEET BETWEEN ALL WATER AND SANITARY SEWER LINES. PROVIDE A MINIMUM SEPARATION OF 18 INCHES AT ALL WATER LINE AND SANITARY SEWER LINE CROSSINGS.
 - WATERMAIN DEPTH:** MAINTAIN 6.0 FEET OF COVER OVER THE TOP OF THE WATER LINES TO THE FINISHED GRADE. VERIFY ELEVATION OF PROPOSED AND EXISTING WATER LINES AT ALL UTILITY CROSSINGS. INSTALL THE WATER LINES AT GREATER DEPTHS IN ORDER TO CLEAR STORM SEWERS, SANITARY SEWERS, OR OTHER UTILITIES AS REQUIRED. INCLUDE COSTS TO LOWER WATER LINES IN THE BASE BID.
 - DISINFECTION:** DISINFECT ALL COMPLETED WATERMANS IN ACCORDANCE WITH AWMA STANDARD C651. IF THE TABLET OR CONTINUOUS FEED METHODS ARE USED, DISINFECT USING WITH WATER THAT CONTAINS AT LEAST 50 PPM OF AVAILABLE CHLORINE. RETAIN THE TREATED WATER IN THE PIPELINE FOR AT LEAST 24 HOURS. MEASURE THE CHLORINE RESIDUAL AT THE END OF THE 24 HOUR PERIOD. THE FREE CHLORINE RESIDUAL MUST BE AT LEAST 10 MG/L MEASURED AT ANY POINT IN THE LINE. MEASUREMENT OF THE CHLORINE CONCENTRATION AT REGULAR INTERVALS SHALL BE IN ACCORDANCE WITH STANDARD METHODS, AWMA M-12, OR USING APPROPRIATE CHLORINE TEST KITS.
 - TESTING:** PRESSURE TEST AND PERFORM BACTERIOLOGICAL TESTS ON ALL WATER LINES UNDER THE SUPERVISION OF THE CITY PUBLIC WORKS DEPARTMENT. NOTIFY THE CITY AT LEAST 24 WORKING HOURS PRIOR TO ANY TESTING. PRESSURIZE THE WATERLINE TO 1034-KPA (150-PSI) GAUGE PRESSURE (MEASURED AT THE POINT OF LOWEST ELEVATION) BY MEANS OF A PUMP CONNECTED TO THE PIPE IN A SATISFACTORY MANNER. MAINTAIN THE TEST PRESSURE FOR A MINIMUM OF 2 HOURS. DO NOT ADD WATER TO THE WATERMAIN IN ORDER TO MAINTAIN THE REQUIRED PRESSURE DURING THE WATER MAIN PRESSURE TESTING. THE TEST SECTION OF PIPE IS ACCEPTABLE WITH A PRESSURE DROP OF 14 KPA (2 PS) OR LESS.
 - USE MECHANICAL JOINT RESTRAINT DEVICES FOR JOINT RESTRAINT ON ALL WATERMAIN BENDS HAVING A VERTICAL OR HORIZONTAL DEFLECTION OF 22-1/2 DEGREES OR GREATER, ALL VALVES, STUBS, EXTENSIONS, TEES, CROSSES, PLUGS, ALL HYDRANT VALVES, AND ALL HYDRANTS IN ACCORDANCE WITH CITY REQUIREMENTS. USE "SERIES 1100 MEGALUG" MANUFACTURED BY EBAA IRON INC., EASTLAND, TEXAS, OR APPROVED EQUAL, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR RESTRAINT ON DUCTILE IRON PIPE.
 - AT ALL VALVE LOCATIONS WHICH REQUIRE A 12" OR SMALLER VALVE, INSTALL GATE VALVES WHICH ARE OF THE COMPRESSION RESILIENT SEATED (CRS) TYPE. USE AMERICAN FLOW CONTROL'S SERIES 2500 DUCTILE IRON RESILIENT WEDGE GATE VALVE, OR APPROVED EQUAL. GATE VALVES SHALL CONFORM TO AWMA C509. INSTALL CAST IRON VALVE BOXES CONFORMING TO ASTM A48 AT EACH VALVE LOCATION. VALVE BOXES SHALL BE THE THREE-PIECE TYPE WITH 5-1/4" SHAFTS. USE TYLER 6860-G WITH NO. 6 BASE, OR EQUIVALENT. VALVE BOXES SHALL HAVE AT LEAST 6" OF ADJUSTMENT ABOVE AND BELOW FINISHED GRADE. DROP COVERS ON VALVE BOXES SHALL BE ROUND AND BEAR THE WORD "WATER" CAST ON THE TOP. USE TYLER 6860-G "STAYPUT" COVERS WITH EXTENDED SKIRT, OR EQUIVALENT.
 - USE MUELLER H 10300 OR FORD EM 2 7057, OR APPROVED EQUAL, AT ALL CURB STOP LOCATIONS. STATIONARY ROD IS REQUIRED ON ALL CURB STOPS.
 - POLYVINYL CHLORIDE (PVC) BUILDING WATER SERVICES:** ASTM D2241 OR ASTM D1785; PRESSURE RATED FOR WATER.
 - POLYVINYL CHLORIDE (PVC) WATERMAIN:** USE AWMA C900 FOR ALL PVC WATERMAIN FURNISHED WITH INTEGRAL ELASTOMERIC BELL AND SPIGOT JOINTS; MINIMUM PRESSURE CLASS 150; DIMENSION RATIO NOT GREATER THAN 18; LAYING LENGTH 20 FEET. USE EBAA IRON, INC., "SERIES 2000 PV MEGALUG," OR APPROVED EQUAL FOR RESTRAINT ON C900 PVC WATERMAIN. LAY TRACE WIRE WITH ALL C900 PVC WATERMAIN.
 - TRACER WIRE:** LOCATING REQUIREMENTS - A MEANS TO LOCATE BURIED UNDERGROUND EXTERIOR NON METALLIC SEWERS/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORD WITH THE PROVISIONS OF THE WISCONSIN STATUTES 182.0175(2R) AND THE WISCONSIN DSPS 382.30(11)(H).
 - TRENCH SECTION SHALL CONFORM TO SECTION 4.3.C, FILE NO. 38 OF THE STANDARD SPECIFICATIONS. SAND OR STONE CHIP BEDDING MATERIAL IS REQUIRED.

- SANITARY SEWER :**
- PIPE: USE SOLID-CORE, SDR-35, ASTM D3034 (OR APPROVED EQUAL) POLYVINYL CHLORIDE (PVC) PLASTIC PIPE FOR ALL DESIGNATED PVC SANITARY SEWER SERVICES. JOINTS FOR ALL SANITARY SEWER SHALL HAVE PUSH-ON JOINTS WITH ELASTOMERIC GASKETS. USE OF SOLVENT CEMENT JOINTS IS ALLOWED FOR BUILDING SERVICES. SOLVENT CEMENT JOINTS IN PVC PIPE MUST INCLUDE USE OF A PRIMER WHICH IS OF CONTRASTING COLOR TO THE PIPE AND CEMENT. PIPE WITH SOLVENT CEMENT JOINTS SHALL BE JOINED WITH PVC CEMENT CONFORMING TO ASTM D2564. LAY ALL PVC PIPE ON A CONTINUOUS GRANULAR BED. INSTALLATION MUST COMPLY WITH ASTM D2321.
 - CLEANOUTS:** INSTALL CLEANOUTS ON ALL SANITARY SEWER SERVICES. THE DISTANCE BETWEEN CLEANOUTS IN HORIZONTAL PIPING SHALL NOT EXCEED 100 FEET FOR PIPES 4-INCH AND OVER IN SIZE. CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS THE PIPES THEY SERVE. INCLUDE FROST SLEEVES AND CONCRETE FRAME AND PIPE SUPPORT. INSTALL A METER BOX FRAME AND SOLID LID (NEENAH R-1914-A, OR APPROVED EQUAL) OVER ALL CLEANOUTS.
 - TESTING:** PRESSURE TEST ALL SANITARY SEWER LINES. TEST ALL FLEXIBLE SANITARY SEWER LINES FOR DEFLECTION AFTER THE SEWER LINE HAS BEEN INSTALLED AND BACKFILL HAS BEEN IN PLACE FOR AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. IF THE TEST FAILS, MAKE NECESSARY REPAIRS AND RETEST.
 - UNLESS OTHERWISE INDICATED, USE REINFORCED, PRECAST, CONCRETE MAINTENANCE HOLES CONFORMING TO ASTM C478, FURNISHED WITH PRECAST BASES. SANITARY SEWER MAINTENANCE HOLES SHALL BE SUPPLIED WITH PRE-FORMED INVERTS AND FLEXIBLE NEOPRENE SLEEVE CONNECTIONS FOR ALL LATERAL LINES 375 MM (15 INCHES) IN DIAMETER OR LESS, UNLESS OTHERWISE INDICATED. JOINTS FOR ALL PRECAST MAINTENANCE HOLE SECTIONS SHALL HAVE CONFINED, RUBBER "O"-RING GASKETS IN ACCORDANCE WITH ASTM C923. THE INSIDE BARREL DIAMETER SHALL NOT BE LESS THAN 48 INCHES.
 - INSTALL FLEXIBLE WATERTIGHT FRAME/CHIMNEY SEALS ON ALL SANITARY SEWER MAINTENANCE HOLES. USE EITHER MANUFACTURED MAINTENANCE HOLE FRAME/CHIMNEY SEALS OR ELASTOMERIC WATERPROOFING FRAME/CHIMNEY SEALS.
 - USE NEENAH FOUNDRY CO. R-1642 CASTING WITH SELF-SEALING, SOLID, TYPE B LID, OR APPROVED EQUAL, ON ALL SANITARY SEWER MAINTENANCE HOLES. COVERS SHALL BEAR THE "SANITARY SEWER" LABEL.
 - TRACER WIRE: LOCATING REQUIREMENTS - A MEANS TO LOCATE BURIED UNDERGROUND EXTERIOR NON METALLIC SEWERS/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORD WITH THE PROVISIONS OF THE WISCONSIN STATUTES 182.0175(2R) AND THE WISCONSIN DSPS 382.30(11)(H).
 - TRENCH SECTION SHALL BE CLASS "B" BEDDING. CRUSHED STONE CHIPS SHALL BE USED FOR BEDDING MATERIAL. PREFABRICATED WYE CONNECTIONS ARE REQUIRED FOR SANITARY LATERALS



LEGEND

---	PROPERTY LINE
---	PROPOSED 18" CURB & GUTTER
-S-	PROPOSED SANITARY SEWER LINE
-STO-	PROPOSED STORM SEWER LINE
■	PROPOSED STORM INLET/MANHOLE
-W-	PROPOSED WATER MAIN
⊙	PROPOSED VALVE
⊙	PROPOSED TELEPHONE
-G-	PROPOSED GAS LINE
-E-	PROPOSED ELECTRICAL LINE
-S-	EXISTING SANITARY SEWER
-STO-	EXISTING STORM SEWER
-W-	EXISTING WATER MAIN
-E-	EXISTING ELECTRICAL LINE
-OHW-	EXISTING OVERHEAD WIRING
-T-	EXISTING TELEPHONE LINE
-FD-	EXISTING FIBER OPTIC LINE
-G-	EXISTING GAS LINE

CITY OF WAUKESHA SANITARY SEWER COMMENTS :

- ALL SANITARY SEWER TO BE INSTALLED IN ACCORDANCE WITH CITY OF WAUKESHA STANDARDS
- ALL APPLICATIONS AND FEE FOR SANITARY SEWER MUST BE COMPLETED AND PAID PRIOR TO CONNECTION TO SEWER SYSTEMS
- ANY UTILITY WORK IN THE ROW AND ALL SANITARY SEWER CONNECTIONS TO BE INSPECTED BY CITY. NOTIFY CITY 72 HOURS IN ADVANCE OF CONNECTION TO SEWER.
- FOLLOW CITY OF WAUKESHA SPECIFICATIONS IF MORE STRINGENT THAN KWIK TRIP STANDARDS
- A RECORD DRAWING OF THE SANITARY/STORM SEWER FACILITIES SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED LAND SURVEYOR SHALL BE SUBMITTED TO THE ENGINEERING DIVISION.

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raSmith 16745 W. Blumound Road
Brookfield, WI 53005-5928
[262] 781-1000 raSmith.com
CREATIVITY BEYOND ENGINEERING

PRELIMINARY PLANS FOR MUNICIPAL REVIEW ONLY

CONVENIENCE STORE #1219
UTILITY PLAN

LES PAUL PARKWAY
WAUKESHA, WI

**Know what's below.
Call before you dig.**

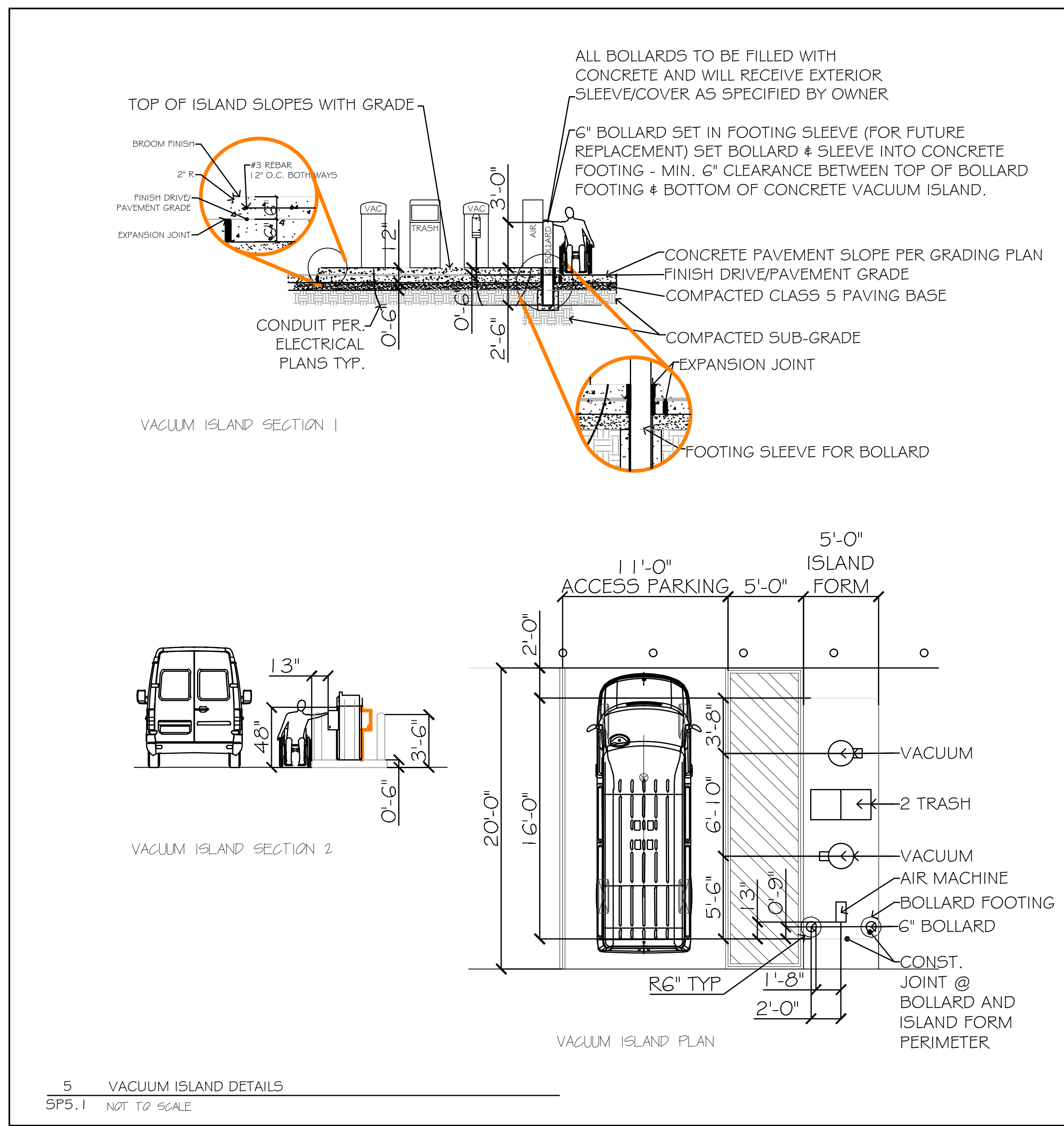
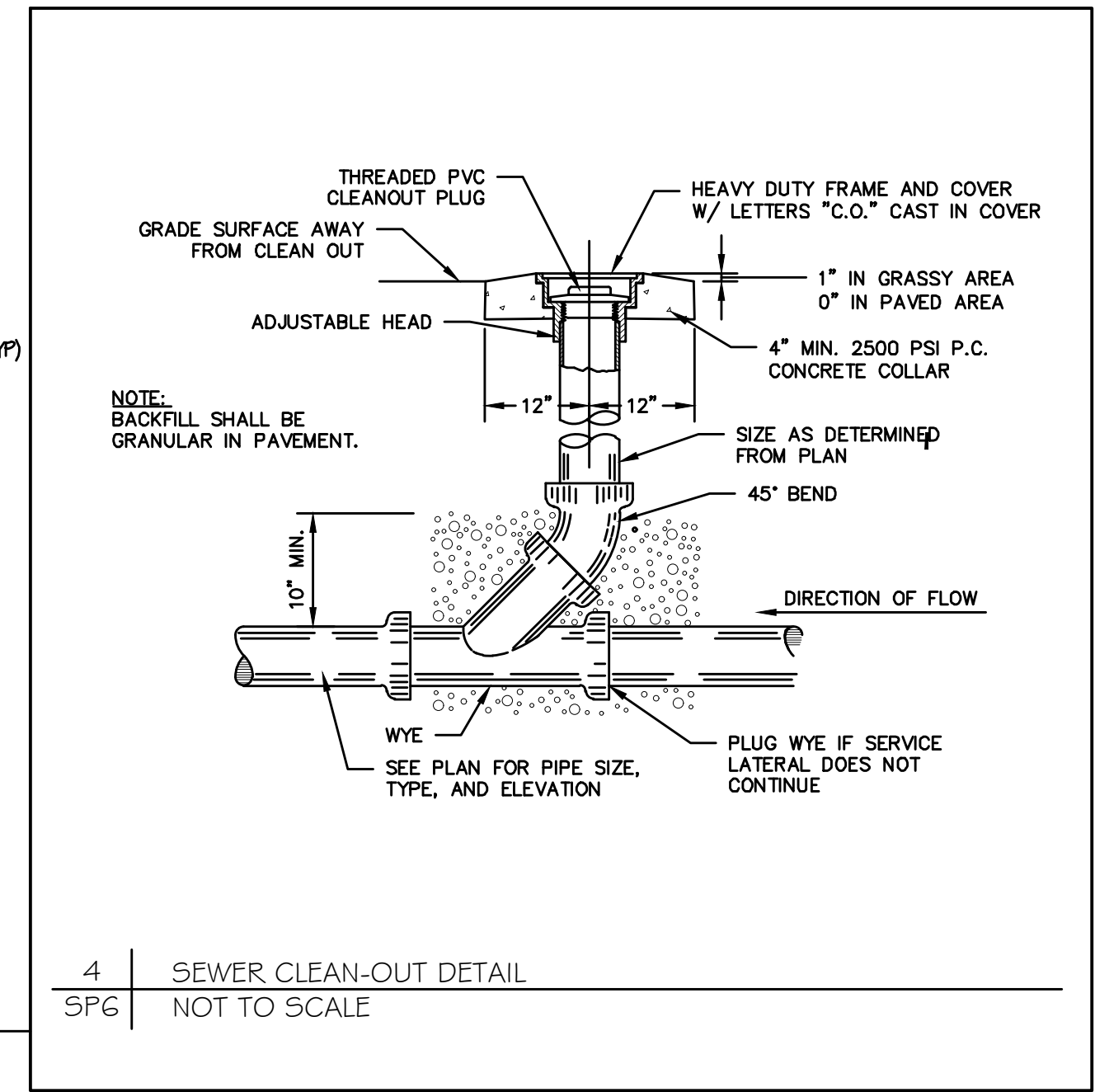
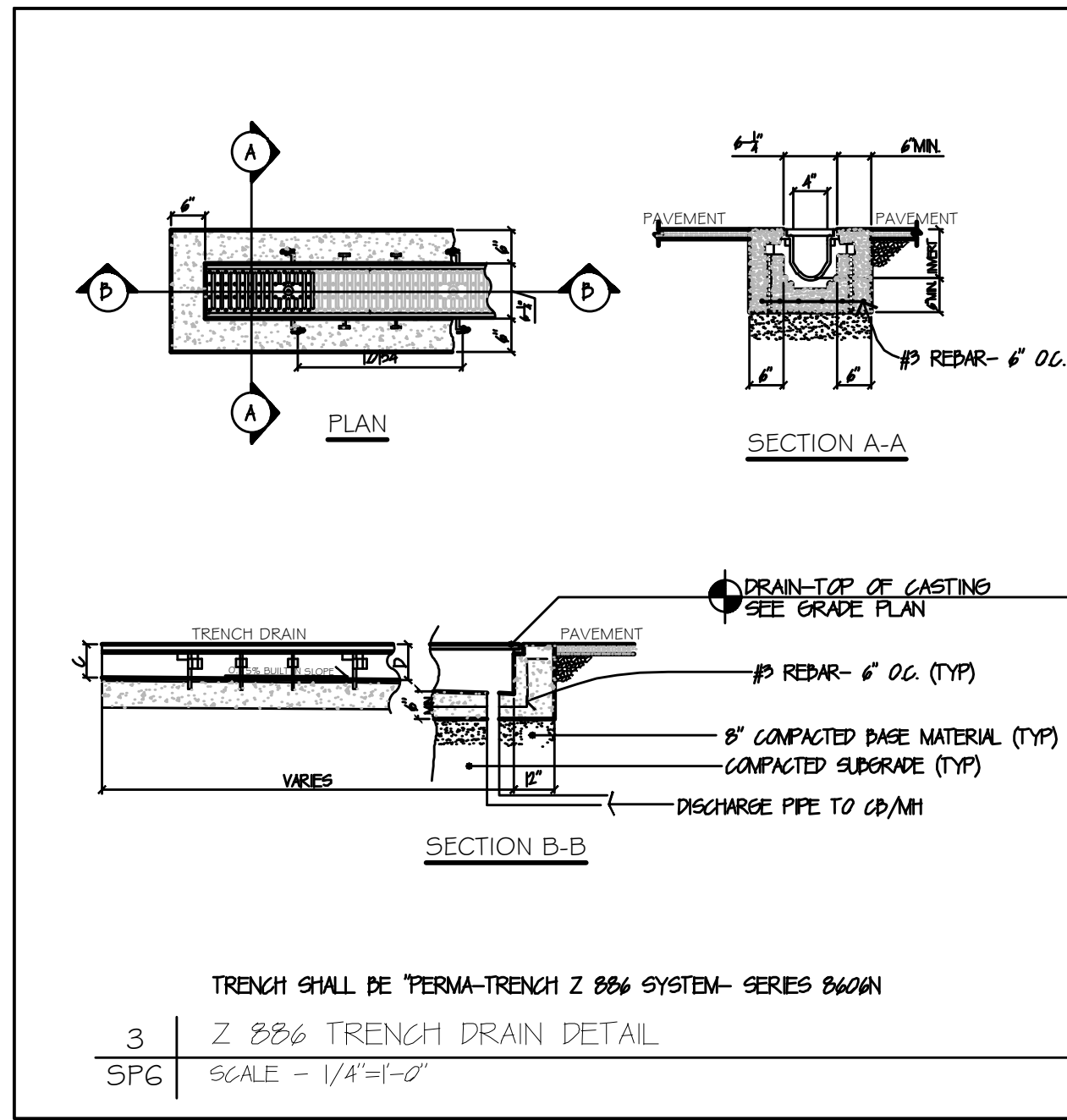
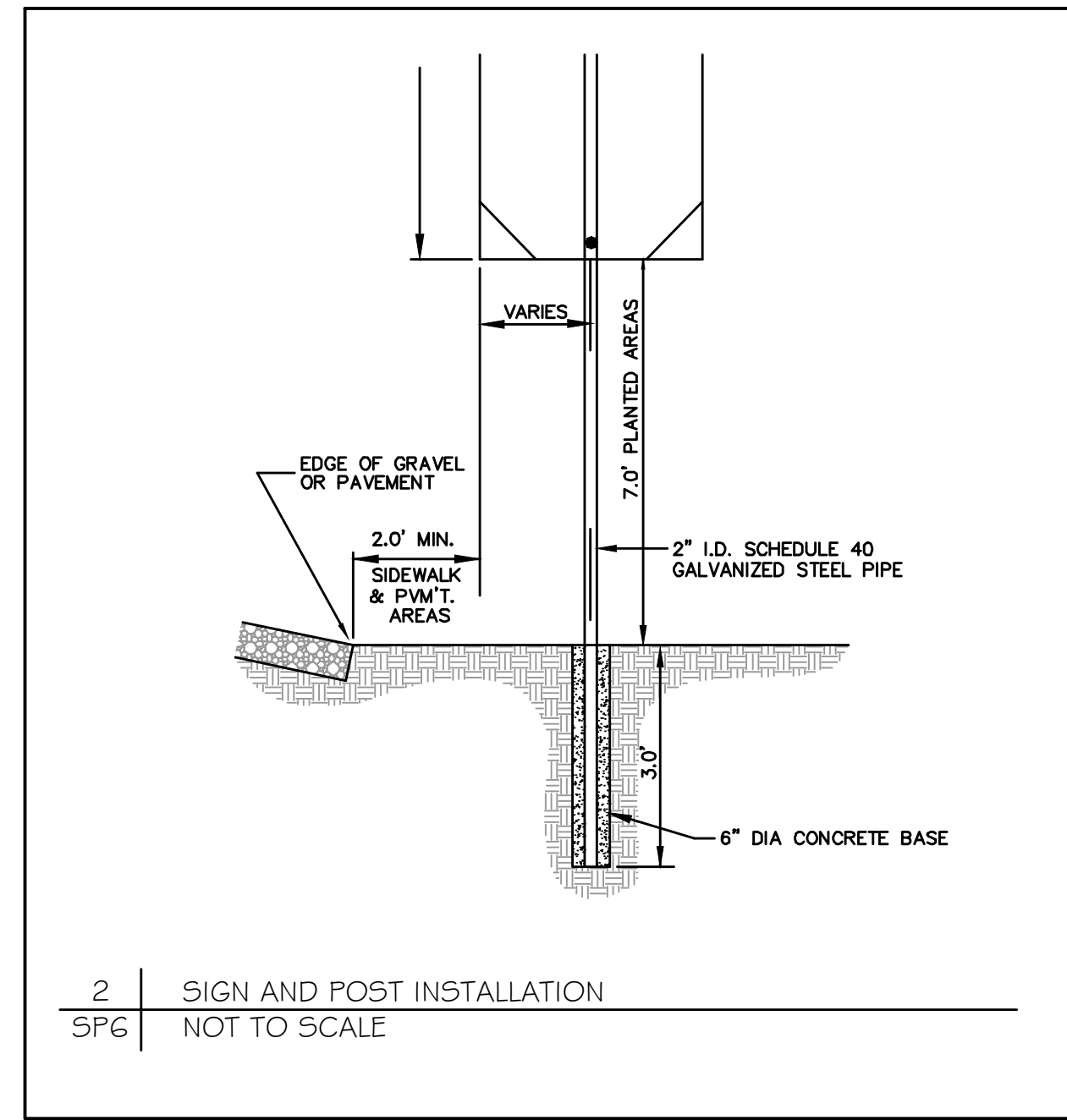
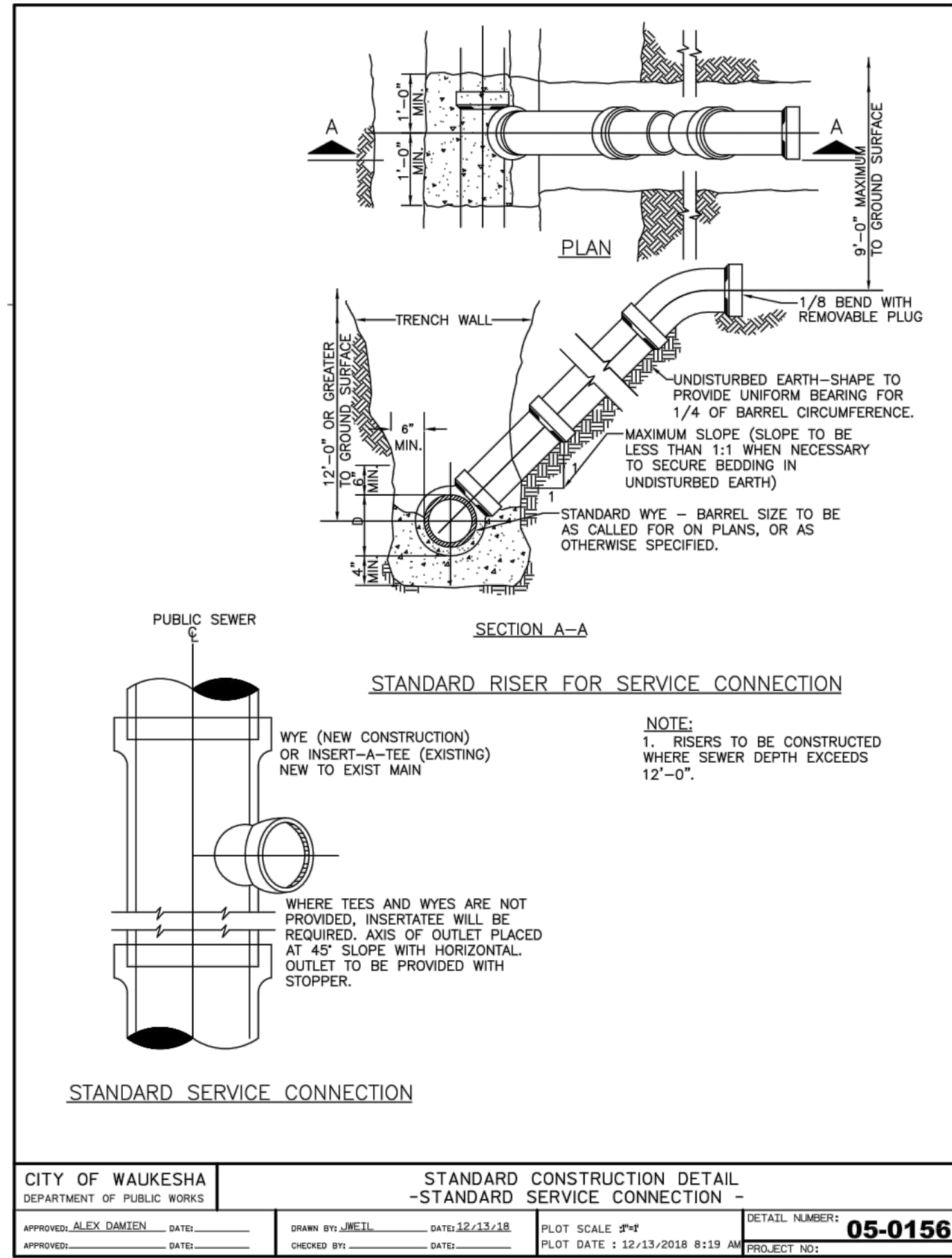
CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE CITY OF WAUKESHA EROSION CONTROL ORDINANCE, THE WISCONSIN DNR STORMWATER CONSTRUCTION AND POST CONSTRUCTION TECHNICAL STANDARDS, THESE DOCUMENTS, THE MOST STRINGENT TO APPLY.

R.A. SMITH, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A. SMITH, INC.

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

#	DATE	DESCRIPTION

DRAWN BY	CBW
SCALE	GRAPHIC
PROJ. NO.	3210028
DATE	10/20/2021
SHEET	SP4.0



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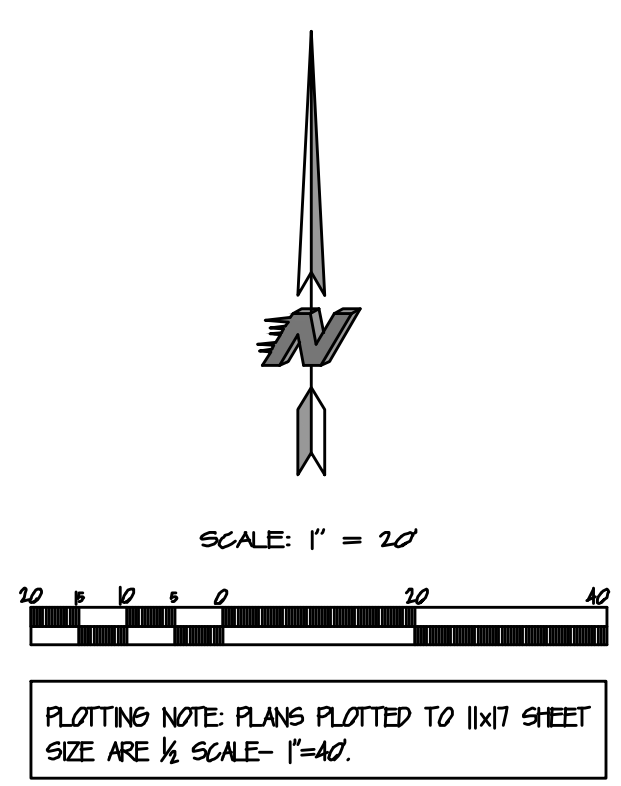
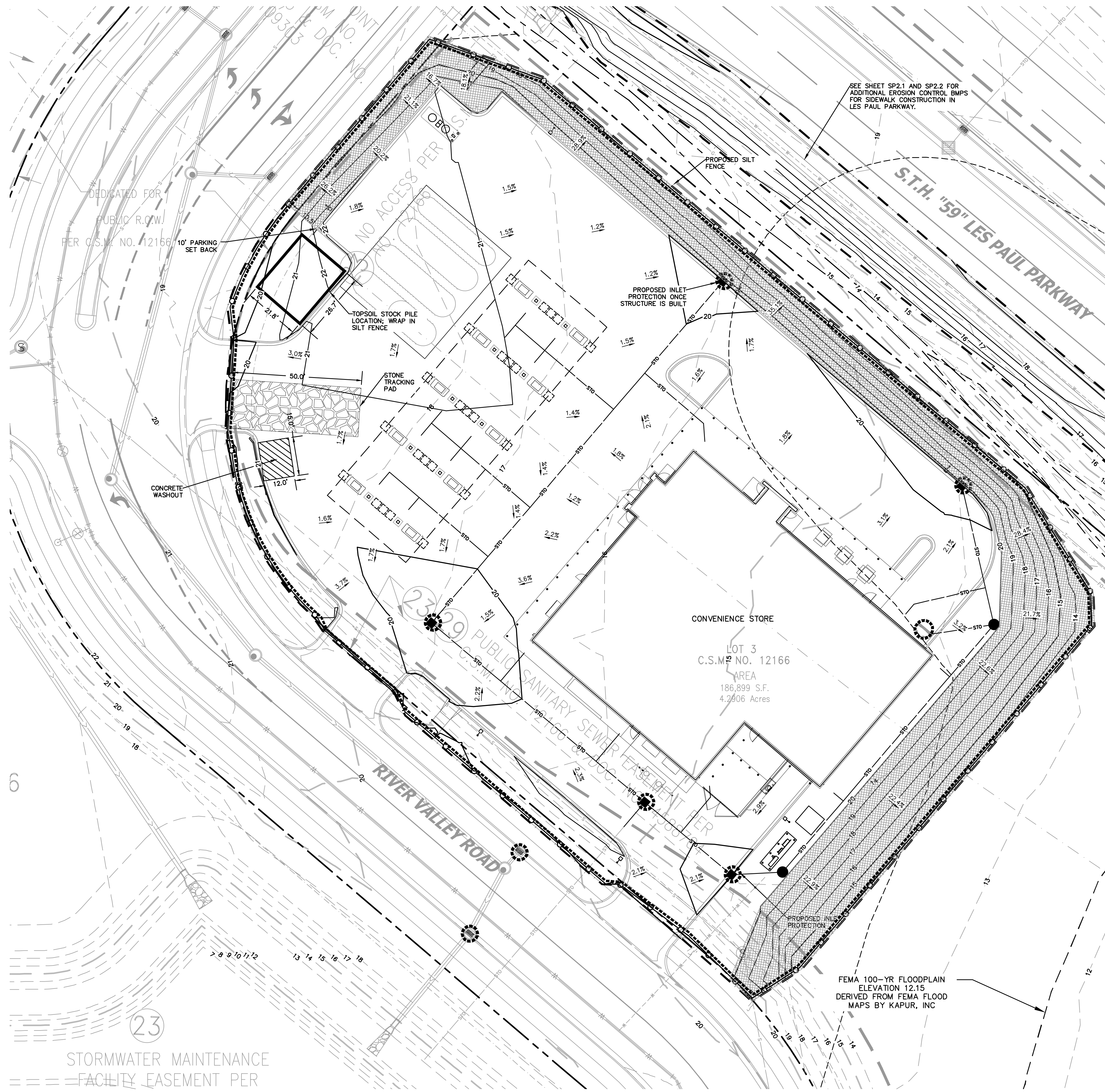
PRELIMINARY PLANS FOR MUNICIPAL REVIEW ONLY

CONVENIENCE STORE #1219
SITE DETAILS

LES PAUL PARKWAY
WAUKESHA, WI

#	DATE	DESCRIPTION

DRAWN BY: _____ CBW
SCALE: _____ GRAPHIC
PROJ. NO.: 3210028
DATE: 10/20/2021
SHEET: **SP5.1**



- LEGEND**
- LAND DISTURBANCE LIMITS: 2.10 ACRES
 - PROPOSED SILT FENCE
 - PROPOSED CONSTRUCTION FENCE
 - STORM DRAIN INLET PROTECTION
 - STONE TRACKING PAD
 - TEMPORARY EROSION CONTROL MATTING
 - WETLAND LIMITS PER DELINEATION BY raSmith DATED 8/12/2015

- CONSTRUCTION SEQUENCE**
1. INSTALL AND MAINTAIN SILT FENCE STARTING 6/6/2022 THROUGH THE END OF CONSTRUCTION.
 2. INSTALL AND MAINTAIN CONSTRUCTION ENTRANCE STARTING 6/6/2022 UNTIL THE SITE IS PAVED IN MID SEPTEMBER. THIS IS THE ONLY EXIT TO BE USED FOR ALL CONSTRUCTION ACTIVITIES. CONTRACTOR MAY ADJUST LOCATIONS TO FACILITATE CONSTRUCTION PHASING.
 3. INSTALL AND MAINTAIN STORM DRAIN INLET PROTECTION ON EXISTING INDICATED STORM INLETS STARTING 6/6/2022 THROUGH THE END OF CONSTRUCTION.
 4. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL BMPs WHEN SITE WORK REQUIRES IT SUCH AS ADDITIONAL SILT FENCE AROUND STOCK PILE (IF ANY).
 5. CONSTRUCT UTILITIES AND INSTALL ADDITIONAL STORM DRAIN INLET PROTECTION TO INLETS AS SOON AS THEY ARE CONSTRUCTED. (WEEK OF 6/20/2022)
 6. PREPARE PARKING LOT SUBGRADE, INSTALL CURB AND GUTTER AND PAVE SITE. (8/29/2022-9/9/2021)
 7. APPLY SEED FERTILIZER AND MULCH TO LANDSCAPE LAWN AREAS AS SOON AS POSSIBLE. (WEEK OF 9/19/2021)
 8. CONTRACTOR SHALL REMOVE ALL REMAINING TEMPORARY EROSION CONTROL BMPs WHEN DISTURBED AREAS ARE STABILIZED AND NO LONGER SUSCEPTIBLE TO EROSION (11/19/2022, ~2 MONTHS AFTER LANDSCAPING)
- LAND DISTURBANCE TIME: JUNE 6, 2022 TO OCTOBER 7, 2022

ESTIMATED EROSION CONTROL QUANTITIES
(ACTUAL QUANTITIES SUBJECT TO CHANGE)

ITEM	QUANTITY
CONSTRUCTION ENTRANCE	1
STORM DRAIN INLET PROTECTION	8
SILT FENCE	1,122 LF.
STRAW WATTLE	AS NEEDED

NOTE: FOR MAINTENANCE PURPOSES, CONTRACTOR SHALL MAINTAIN EROSION CONTROL PER DNR REQUIREMENTS THROUGHOUT ALL PHASES OF THE PROJECTS CONSTRUCTION. COST FOR MAINTENANCE SHALL BE INCLUDED AND CONSIDERED INCIDENTAL TO BID PRICE.

PROJECT DATA

- ALL SILT FENCE MUST BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CITY PRIOR TO ANY SITE WORK.
- SITE EROSION CONTROL MEASURES MUST BE IN PLACE AT ALL TIMES. SHOULD DEVICES BE REMOVED FOR WORK ACCESS, THEY SHALL BE REINSTALLED AT THE END OF EACH WORK DAY UNTIL PAVEMENTS HAVE BEEN INSTALLED AND ALL LANDSCAPE AREAS HAVE BEEN MULCHED AND SODED. SEEDING AREAS MUST EXHIBIT MINIMUM OF 70% SOIL COVERAGE.
- REFER TO THE SWPPP PLAN NOTES AND DETAIL SHEETS SWPP-2-4 FOR MORE INFORMATION.
- THIS SITE IS WITHIN THE EAGLE CREEK-FOX RIVER BASIN.
- THE SITE IS ALMOST ENTIRELY CLASSIFIED BY USGS WEB SOIL SURVEY AS SILT LOAM SOILS (LOAM SOIL GROUP C).
- LOCATE SOIL STOCKPILES AWAY FROM CHANNELIZE FLOW AND NO CLOSER THAN 25 FEET FROM ROADS, DITCHES, LAKES, STREAM, PONDS, WETLANDS OR ENVIRONMENTAL CORRIDORS, UNLESS OTHERWISE APPROVED BY THE AUTHORITY. CONTROL SEDIMENT FROM SOIL STOCKPILES. ANY SOIL STOCKPILE THAT REMAINS FOR MORE THAN 7 DAYS SHALL BE STABILIZED.

CONTACT BRADFORD FRY, P.E.
 KWIK TRIP, INC.
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 LACROSSE, WI 54602
 608-793-6414



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PRELIMINARY PLANS FOR MUNICIPAL REVIEW ONLY

CONVENIENCE STORE #1219
 EROSION CONTROL PLAN
 LES PAUL PARKWAY
 WAUKESHA, WI

#	DATE	DESCRIPTION

DRAWN BY: CBW
 SCALE: GRAPHIC
 PROJ. NO: 3210028
 DATE: 10/20/2021
 SHEET: SWP 1.0

STORMWATER MAINTENANCE FACILITY EASEMENT PER

GENERAL STORMWATER POLLUTION PREVENTION:

APPLY FOR AND OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION ACTIVITY.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP): THE SWPPP INCLUDES THIS NARRATIVE, PLAN SHEETS SP1-SP4, SWP1-SWP5 AND THE STORMWATER MANAGEMENT CALCULATIONS. KEEP A COPY OF THE SWPPP, ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS AT THE SITE DURING THE CONSTRUCTION. DURING THE CONSTRUCTION PROCESS THE SWPP WILL HAVE TO BE AMENDED FOR ALL CHANGES PERFORMED BY THE CONTRACTOR. THE OWNER SHALL BE AWARE OF THE AMENDMENTS PRIOR TO CHANGES MADE TO THE SWPP PLAN. ALL NOTES, PHOTOGRAPHS, RECORDED DATES, SKETCHES, REFERENCES, AND DIAGRAMS WILL HAVE TO BE RECORDED AND MADE AVAILABLE AS PART OF THE SWPP PERMIT.

INDIVIDUAL(S) PREPARING THE SWPPP FOR THE PROJECT, OVERSEEING IMPLEMENTATION OF THE SWPPP, REVISING AND AMENDING THE SWPPP, AND AT LEAST ONE INDIVIDUAL ON THE PROJECT PERFORMING INSTALLATION, INSPECTION, MAINTENANCE, AND REPAIRS OF BMP'S MUST BE TRAINED. THE TRAINING MUST BE DONE BY A LOCAL, STATE, FEDERAL AGENCIES; PROFESSIONAL ORGANIZATION; OR OTHER ENTITIES WITH EXPERTISE IN EROSION PREVENTION, SEDIMENT CONTROL, OR PERMANENT STORMWATER MANAGEMENT.

RESPONSIBLE PARTIES: THE CONTRACTOR MUST DESIGNATE A PERSON KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPs WHO WILL OVERSEE THE IMPLEMENTATION OF THE SWPPP, AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs BEFORE AND DURING CONSTRUCTION.

THE OWNER IS RESPONSIBLE FOR IDENTIFYING WHO WILL HAVE RESPONSIBILITY FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEMS.

OWNER CONTACT:

NAME: BRADFORD FRY, P.E.
COMPANY: KWIK TRIP INC.
ADDRESS: KWIK TRIP, INC. - STORE ENGINEERING
1626 OAK STREET, P.O. BOX 2107
LA CROSSE, WI 54601-2107
TELEPHONE: (608) 793-6414

SITE INVESTIGATION, INSTALLATION, IMPLEMENTATION:

- 1. PRIOR TO ANY WORK, CONTRACTOR SHALL VISIT THE SITE, DOCUMENT EXISTING CONDITIONS AS NECESSARY (PHOTOS, NOTES, ETC) AND NOTE EXISTING DRAINAGE PATTERNS ON AND OFF SITE THAT ARE RELATED TO THE PROJECT. THESE NOTES SHALL BE PART OF THE SWPP.
2. INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES INCLUDING SILT FENCE, ROCK CONSTRUCTION ENTRANCE(S), EROSION CONTROL BERMS, ROCK FILTERS, SILT SACKS, ROCK /EARTH BERMS, AND SEDIMENTATION BASINS. PROTECT ALL RECEIVING WATERS, CATCH BASINS, DITCHES, INLETS ETC. IN AND AROUND THE SITE. ALL PROTECTIVE AND PREVENTATIVE MEASURES MUST BE IN PLACE AND INSPECTED PRIOR TO BEGINNING SITE CLEARING, GRADING, OR OTHER LAND-DISTURBING ACTIVITY.
3. PRIOR TO BEGINNING SITE CLEARING AND GRADING, PROTECT ALL STORM SEWER INLETS THAT RECEIVE RUNOFF FROM DISTURBED AREAS. IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE SITE AND ENTERING THE DOWNSTEAM STORM SEWER SYSTEM, SEAL ALL STORM SEWER INLETS THAT ARE NOT NEEDED FOR SITE DRAINAGE DURING CONSTRUCTION. PROTECT ALL OTHER STORM SEWER INLETS BY INSTALLING SEDIMENT CONTROL DEVICES SUCH AS SILT SACKS, OR ROCKED FILLATION LOGS/WEIRS OR STRAW BALES OR FABRIC UNDER THE GRATES ARE NOT ACCEPTABLE FORMS OF INLET PROTECTION. PROTECT NEW STORM SEWER INLETS AS THEY ARE COMPLETED. MAINTAIN STORM SEWER INLET PROTECTION IN PLACE UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLETS ARE STABILIZED.
4. BEFORE BEGINNING CONSTRUCTION, INSTALL A TEMPORARY ROCK CONSTRUCTION ENTRANCE AT EACH POINT WHERE VEHICLES EXIT THE CONSTRUCTION SITE WHEN AT ALL POSSIBLE CONTRACTOR SHALL DESIGNATE ONLY ONE ACCESS POINT FOR VEHICLES ENTERING AND EXITING THE SITE. THE ROCK ON THE ENTRANCE WILL HAVE TO BE INSPECTED DAILY AND REPLACED OR ROCK SUPPLEMENTED BY THE CONTRACTOR WHEN OVER 50% OF THE VOIDS IN THE ROCK ARE FILLED. A CLEANING STATION SHOULD BE MADE AVAILABLE TO DRIVERS AND VISIBLY SIGNED AS SUCH. PROVIDE SHOVELS, BROOMS AND/OR HOSE WITH A WASH OUT AREA SO SOILS CAN BE REMOVED FROM VEHICLES ON SITE.
5. AVOID ENTIRE REMOVAL OF TREES AND SURFACE VEGETATION ALL AT ONCE WHENEVER POSSIBLE AS THIS LIMITS THE AMOUNT OF SITE SUSCEPTIBLE TO EROSION. SCHEDULE CONSTRUCTION ZONES AND NOTE THIS ON THE SWPP PLAN IN ORDER TO EXPOSE THE SMALLEST PRACTICAL AREA OF SOIL AT ANY GIVEN TIME. UTILIZE VEGETATION REMOVED BY ON SITE GRINDING AND MULCHING AND USING THIS MATERIAL TO PROTECT THE SOIL FROM EROSION.
6. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, COMPLETE PERMANENT OR TEMPORARY STABILIZATION AGAINST EROSION DUE TO RAIN, WIND, AND RUNNING WATER WITHIN 14 CALENDAR DAYS ON ALL DISTURBED OR GRADED AREAS. THIS REQUIREMENT DOES NOT APPLY TO THOSE AREAS THAT ARE CURRENTLY BEING USED FOR MATERIAL STORAGE ON A DAILY BASIS OR FOR THOSE AREAS ON WHICH GRADING, SITE BUILDING, OR OTHER CONSTRUCTION ACTIVITIES ARE ACTIVELY UNDERWAY. PROVIDE TEMPORARY COVER ON ALL STACKED TOPSOIL PILES, AND OTHER AREAS OF STOCKPILED EXCAVATED MATERIAL IN ORDER TO PREVENT SOIL EROSION AND RAPID RUNOFF DURING THE CONSTRUCTION PERIOD. STOCKPILES CAN BE MULCHED, COVERED WITH POLY OR FABRIC, AND OR SEEDED DURING PROLONGED EXPOSURE. PROLONGED PERIODS OF OPEN, BARE EARTH WITHOUT GRASS COVER WILL NOT BE PERMITTED. STABILIZE ALL DISTURBED GREENSPACE AREAS WITH A MINIMUM OF 4" TOPSOIL IMMEDIATELY AFTER FINAL SUBGRADE COMPLETION. SEED AND MULCH, OR SOD AND PROTECT THESE AREAS WITHIN 48 HOURS AFTER COMPLETION OF FINAL GRADING WORK (WEATHER PERMITTING). STABILIZE ALL DISTURBED AREAS TO BE PAVED USING EARLY APPLICATION OF GRAVEL BASE. STABILIZE THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH THAT CONVEYS WATER FROM THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE CONSTRUCTION SITE, WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR WITHIN 200 FEET FROM THE POINT OF DISCHARGE TO ANY SURFACE WATER. STABILIZE TEMPORARY OR PERMANENT DRAINAGE DITCHES WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER. PROTECT OUTFALLS MINIMUM OF 200 FEET DOWN STREAM AND TO THE SIDE OF THE DISCHARGE POINT. ADDITIONAL SETTLING "POTS" ACHIEVED BY FILTER LOGS OR FILTERED STICK BALES STAKED IN THE CHANNEL WILL DISSIPATE THE WATER ENERGY. PROVIDE PIPE OUTLETS WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER.
7. RECEIVING WATERS - IT IS THE CONTRACTORS RESPONSIBILITY TO INSPECT THE SITE DISCHARGE POINT AS WELL AS DOWNSTREAM TO THE RECEIVING BODY OF WATER (POND, LAKE, STREAM, ETC.) ON A REGULAR BASIS INCLUDING AFTER EACH STORM EVENT AND DOCUMENT IF ANY DIFFERENCES OR CHANGES IN NORMAL IN DISCHARGE AND IF MATERIAL IS LEAVING THE CONSTRUCTION SITE. IF SO IT SHALL BE DOCUMENTED AND REMOVED IMMEDIATELY.

NOTE: ALL EROSION AND SEDIMENT CONTROL DEVICES WILL BE CHECKED BY THE CONTRACTOR AFTER EACH STORM EVENT AND BE MAINTAINED, OR IMPROVED UPON AFTER EVERY STORM EVENT TO ENSURE ADEQUATE PERFORMANCE.

POLLUTION CONTROL:

- 1. DESIGNATE A CONCRETE WASH-OUT AND TRUCK WASH AREA: MAKE IT VISIBLE IN THE FIELD TO VEHICLE OPERATORS AND NOTE THIS ON THE SWPP PLAN.
A. WHEN WASHOUTS OCCUR ON THE SITE, CONCRETE WASHOUT WATER MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER. LIQUID AND SOLID WASTES MAY NOT TOUCH THE GROUND AND THERE MUST NOT BE RUNOFF FROM THE CONCRETE WASHOUT OPERATIONS OR AREAS.
B. ON SITES WHERE CONCRETE WASHOUT AREAS ARE NOT FEASIBLE AS SHOWN ON THE DETAIL SHEET, ABOVE GROUND METHODS AND/OR OFF-SITE METHODS CAN BE UTILIZED AS APPROVED BY OWNER.
C. CONCRETE WASHOUT MAY BE PROVIDED OFF-SITE BY CONCRETE CONTRACTOR OR CONCRETE SUPPLIER, AT AN APPROVED WASHOUT DISPOSAL AREA. CONCRETE SUPPLIER MAY PROVIDE CONCRETE WASHOUT AREAS ON-BOARD THEIR TRANSPORTS FOR DISPOSAL OFF-SITE. CONCRETE CONTRACTOR SHALL VERIFY WITH SUPPLIER IN REGARDS TO PROVIDED CONCRETE WASHOUT AREAS ON AND OFF-SITE, AS NECESSARY.
D. LIMIT EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION VEHICLES TO A DEFINED AREA PREFERABLY BEFORE THE CONSTRUCTION ACCESS/EXIT POINT. WASH VEHICLES ONLY ON AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. CONTAIN RUNOFF AND PROPERLY DISPOSE OF WASTE. ENGINE DEGREASING IS PROHIBITED.
2. SOLID WASTE: PROPERLY DISPOSE OF COLLECTED SEDIMENT, ASPHALT AND CONCRETE MILLINGS, FLOATING DEBRIS, PAPER, PLASTIC, FABRIC, CONSTRUCTION AND DEMOLITION DEBRIS, AND OTHER WASTES IN COMPLIANCE WITH STATE REQUIREMENTS.
3. HAZARDOUS MATERIALS: PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE DEBRIS, CLEANING WASTES, OIL, GASOLINE, PAINT, WASTEWATER, TOXIC MATERIALS, AND HAZARDOUS MATERIALS) OFF-SITE. DO NOT ALLOW WASTE AND UNUSED BUILDING MATERIALS TO BE CARRIED BY RUNOFF INTO A RECEIVING CHANNEL OR STORM SEWER SYSTEM. PROPERLY STORE OIL, GASOLINE, PAINT, AND OTHER HAZARDOUS MATERIALS IN ORDER TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGE. INCLUDE SECONDARY CONTAINMENT. RESTRICT ACCESS TO STORAGE AREAS IN ORDER TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS MATERIALS MUST BE IN COMPLIANCE WITH REGULATIONS.
4. MACHINERY: AND MECHANICALIZED EQUIPMENT THAT LEAKS WASTE SHALL HAVE A PROTECTIVE BARRIER OR CONTAINMENT UNDER THE DEVICE ADEQUATE TO CONTAIN THE WASTE. PROPERLY DISPOSE OF THE WASTE.
5. EMERGENCY SPILL STATION: CONTRACTOR SHALL LOCATE AND SIGN AN EMERGENCY SPILL STATION THAT HAS NECESSARY CONTAINMENT OR CLEANUP DEVICES FOR ALL WORKERS TO ACCESS.

EROSION CONTROL:

APPLY NECESSARY MOISTURE TO THE CONSTRUCTION AREA AND HAUL ROADS TO PREVENT THE SPREAD OF DUST.

CONTRACTOR SHALL UTILIZE COARSELY GROUND WOOD AND TREE MULCHES TO COVER EXPOSED SOILS. MULCHES SHALL BE SPORED ON SITE TO SUPPLEMENT AND USE IN PROBLEM AREAS DURING ALL PHASES OF THE CONSTRUCTION PROJECT.

CONTRACTOR SHALL USES STAR TACK OR OTHER ORGANIC SUBSTANCES IN SITUATIONS TO PREVENT SOIL FROM ERODING AWAY BY WIND OR RAIN.

WHENEVER POSSIBLE CONTRACTOR SHALL GRADE AREAS OF SOIL TO LIMIT POTENTIAL OF EROSION, TO INCLUDE TRACKING PERPENDICULAR TO FALL LINE OF GRADES AS WELL AS DIVERTING WATER FLOWS FROM PROBLEMATIC AREAS ON THE SITE.

SEEDING, FIBER BLANKETS, POLY/TARPS OR COVER MULCHES, DISKED MULCHES AND COMPOST CAN BE USED TO COVER TEMPORARILY EXPOSED AREAS FROM WIND AND RAIN. OTHER METHODS BY THE CONTRACTOR SHALL BE DOCUMENTED IN THE SWPP.

SEDIMENT CONTROL:

INLET SEDIMENT CONTROL PROTECTION DEVICES: THE FOLLOWING ARE APPROVED INLET SEDIMENT CONTROL DEVICES:

- A. ROAD DRAIN TOP SLAB MODEL RD 23 (FITS ROUGH OPENING FOR 2'X3' INLET), ROAD DRAIN TOP SLAB MODEL RD 27 (FITS ROUGH OPENING FOR 27" INLET), OR ROAD DRAIN TOP SLAB MODEL CG 3067 (FITS NEENAH CASTING WITH 35-1/4"X17-3/4" DIMENSIONS) MANUFACTURED BY WIMCO, 799 THEIS DRIVE, SHAKOPEE, MN, 55379, PHONE (952) 233-3055. OR APPROVED EQUAL
B. SILT SACK MANUFACTURED BY ACF ENVIRONMENTAL, 2831 CARDWELL ROAD, RICHMOND, VA, 23234, PHONE (800) 448-3636. OR APPROVED EQUAL
C. INFRASAFE SEDIMENT CONTROL BARRIER. INSTALL GEOTEXTILE SOCK ON THE OUTSIDE OF THE BARRIER IN ORDER TO TRAP ADDITIONAL FINES. STANDARD FRAMES ARE AVAILABLE TO FIT 24" TO 30" DIAMETER AND 2'X3' OPENINGS. DISTRIBUTED BY ROYAL ENTERPRISES AMERICA, 30622 FOREST BOULEVARD, STACY, MN, 55079, PHONE (651) 462-2130. OR APPROVED EQUAL
D. RIDGE BAG ROCK LOG. USE ROCK LOGS ONLY FOR CURB INLETS AFTER PAVEMENT IS IN PLACE. MANUFACTURED BY RED BARN RIDGE, 3135 COUNTY ROAD 136, SAINT CLOUD, MN, 55301, PHONE (320) 253-3744. OR APPROVED EQUAL
E. INFLATABLE DRAIN PLUGS BY INTERSTATE PRODUCTS WWW.INTERSTATEPRODUCTS.COM OR APPROVED EQUAL

RIPRAP: PLACE A 450 MM (18 INCH) THICK LAYER OF RIPRAP ONTO A 225 MM (9 INCH) THICK LAYER OF GRANULAR FILTER MATERIAL AT LOCATIONS INDICATED ON THE PLAN IN ACCORDANCE WITH WIDOT SPECIFICATION 606. INSTALL TWO LAYERS OF MEDIUM DUTY GEOTEXTILE FABRIC (WIDOT HR, SECTION 645.3.7) BENEATH THE GRANULAR FILTER MATERIAL. AT PIPE OUTFALLS CONFIGURE THE INSTALLATION AS SHOWN ON DETAIL SHEET FOR THE SIZE OF PIPE INDICATED AND EXTEND THE GEOTEXTILE FABRIC UNDER THE CULVERT APRON A MINIMUM OF 3 FEET. FOR PIPE SIZES SMALLER THAN 300 MM (12 INCH) DIAMETER, THE MINIMUM QUANTITY OF RIPRAP AND FILTER BLANKET SHALL BE NO LESS THAN THAT REQUIRED FOR 300 MM (12 INCH) DIAMETER PIPES.

SILT FENCE: INSTALL AND MAINTAIN PER WDNR CONSERVATION PRACTICE STANDARD 1056.

TRACKING PAD / CONSTRUCTION ENTRANCE: INSTALL AND MAINTAIN PER WDNR CONSERVATION PRACTICE STANDARD 1057. USE BROCK WHITE FODS TRACKOUT CONTROL MAT OR EQUAL PRODUCT. INSTALL AND MAINTAIN PER THE MANUFACTURER'S RECOMMENDATIONS AS TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED ROADWAYS. CLOSE ENTRANCES NOT PROTECTED BY TEMPORARY ROCK CONSTRUCTION ENTRANCES TO ALL CONSTRUCTION TRAFFIC.

TEMPORARY SEDIMENT BASINS: IN THE CONSTRUCTION PROCESS OR IF NOTED ON THE PLAN THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASIN(S). AS PER GENERAL RULE THE SEDIMENT BASIN SHALL BE SIZED APPROPRIATELY TO A CAPACITY RELEGATED TO THE DRAINAGE AREA ON A RATIO OF 3,600 CUBIC FEET PER ACRE OF DRAINAGE ZONE ENTERING THE BASIN. BASINS SHALL BE INSPECTED AFTER EVERY RAINFALL EVENT, MATERIAL REMOVED AND STABILIZED. IF CHANGES TO THE BASIN ARE MADE, DOCUMENT AND AMEND THE SWPP PLAN.

DEWATERING:

IF DEWATERING IS REQUIRED AND SUMP PUMPS ARE USED, ALL PUMPED WATER MUST BE DISCHARGED THROUGH AN EROSION CONTROL FACILITY (TEMPORARY SEDIMENTATION BASIN, GRIT CHAMBER, SAND FILTER, UPFLOW CHAMBER, HYDRO-CYCLONE, SWIRL CONCENTRATOR, DEWATERING BAG OR OTHER APPROPRIATE FACILITY) PRIOR TO LEAVING THE CONSTRUCTION SITE. PROPER ENERGY DISSIPATION MUST BE PROVIDED AT THE OUTLET OF THE PUMP SYSTEM. DISCHARGE CLEAR WATER ONLY. TO ACHIEVE BETTER SEPARATION OF THE MATERIAL SUSPENDED IN THE WATER A BIODEGRADABLE NOT TOXIC FLOCCULENT AGENT MAY BE REQUIRED. FOR MORE INFORMATION AND MATERIALS GO TO BY INTERSTATE PRODUCTS WWW.INTERSTATEPRODUCTS.COM

GEOTEXTILE DEWATERING BAGS SHALL MEET REQUIREMENTS OF DNR TECHNICAL STANDARD 1061. THE FOOTPRINT OF GEOTEXTILE BAGS SHALL BE NO SMALLER THAN 100 SQUARE FEET, AND SHALL BE SECURELY ATTACHED TO THE DISCHARGE PIPE. POLYMERS CAN BE USED TO ENHANCE THE EFFICIENCY OF GEOTEXTILE BAGS. IF USED, POLYMERS SHALL MEET THE CRITERIA WITHIN DNR TECHNICAL STANDARD 1051.

Table 1 - Prescriptive Compliance Area Soil Stabilization

Table with 5 columns: Prescriptive Compliance Areas, Bare Soil, Slope & Channel Management, Periods of Inactivity, Final Grade. It details soil stabilization requirements for various site conditions like stockpiles, utility trenches, and slopes.

INSPECTIONS - MAINTENANCE - DAILY RECORD - AMEND THE SWPP PLAN

- 1. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES, STABILIZED AREAS, AND INFILTRATION AREAS ON A DAILY BASIS UNTIL LAND-DISTURBING ACTIVITY HAS CEASED. THEREAFTER, INSPECT AT LEAST ON A WEEKLY BASIS UNTIL VEGETATIVE COVER IS ESTABLISHED. INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES, STABILIZED AREAS, AND INFILTRATION AREAS WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. REMOVE ACCUMULATED SEDIMENT DEPOSITS FROM BEHIND EROSION AND SEDIMENT CONTROL DEVICES AS NEEDED. DO NOT ALLOW SEDIMENT TO ACCUMULATE TO A DEPTH OF MORE THAN ONE-THIRD OF THE HEIGHT OF THE EROSION AND SEDIMENT CONTROL DEVICES. IMMEDIATELY REPLACE DETERIORATED, DAMAGED, ROTTED, OR MISSING EROSION CONTROL DEVICES. DOCUMENT INSPECTIONS AND DATES OF RAINFALL EVENTS. MAINTAIN A WRITTEN LOG OF ALL INSPECTION, MAINTENANCE, AND REPAIR ACTIVITIES RELATED TO EROSION AND SEDIMENT CONTROL FACILITIES. ALL NONFUNCTIONAL BMPs MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPs WITHIN 24 HOURS AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
2. ALL INSPECTIONS AND MAINTENANCE ACTIVITIES MUST BE RECORDED IN WRITING DAILY IN A DETAILED RECORD (NOTES, PHOTOGRAPHS, SKETCHES, ETC, AND KEPT WITH THE SWPPP BY THE CONTRACTOR.
3. CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENTS TRACKED OR OTHERWISE DEPOSITED ONTO ADJACENT PROPERTY, PAVEMENT AREAS, SIDEWALKS, STREETS, AND ALLEYS. REMOVAL SHALL BE ON A DAILY BASIS THROUGHOUT THE DURATION OF THE CONSTRUCTION AND/OR AS DIRECTED BY THE CITY. CLEAN PAVED ROADWAYS BY SHOVELING OR MET-SWEEPING. DO NOT DRY SWEEP. IF NECESSARY, SCRAPE PAVED SURFACES IN ORDER TO LOOSEN COMPACTED SEDIMENT MATERIAL PRIOR TO SWEEPING. HAUL SEDIMENT MATERIAL TO A SUITABLE DISPOSAL AREA. STREET WASHING IS ALLOWED ONLY AFTER SEDIMENT HAS BEEN REMOVED BY SHOVELING OR SWEEPING.
4. ALL SOIL HAULED FROM THE SITE SHALL BE ACCOUNTED FOR AND DOCUMENTED IN THE SWPP BY THE CONTRACTOR. ITS FINAL DESTINATION AND HOW THE SOIL HAS BEEN STORED AND STABILIZED.
5. CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED (HARD-SURFACED AREAS PAVED AND VEGETATION ESTABLISHED IN GREEN SPACE). REPAIR ANY RILLING, GULLY FORMATION, OR WASHOUTS. AFTER FINAL ESTABLISHMENT OF PERMANENT STABILIZATION, REMOVE ALL TEMPORARY SYNTHETIC, STRUCTURAL, AND NONBIODEGRADABLE EROSION AND SEDIMENT CONTROL DEVICES AND ANY ACCUMULATED SEDIMENTS. DISPOSE-OF OFF SITE. RESTORE PERMANENT SEDIMENTATION BASINS TO THEIR DESIGN CONDITION IMMEDIATELY FOLLOWING STABILIZATION OF THE SITE.
6. CONTRACTOR SHALL CLEAN SEDIMENTATION BASINS, STORM SEWER CATCH BASINS, DITCHES, AND OTHER DRAINAGE FACILITIES AS REQUIRED IN ORDER TO MAINTAIN THEIR EFFECTIVENESS. TEMPORARY AND PERMANENT SEDIMENTATION BASINS MUST BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 OF THE STORAGE VOLUME. DRAINAGE AND REMOVAL MUST BE COMPLETED WITHIN 72 HOURS, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
7. CONTRACTOR SHALL INSPECT INFILTRATION AREAS TO ENSURE THAT NO SEDIMENT FROM ONGOING CONSTRUCTION ACTIVITIES IS ACCUMULATING. REMOVE SEDIMENT IMMEDIATELY ENSURING SUBSOILS ARE NOT COMPACTED BY MACHINERY.
8. EVERY VEHICLE SHALL NOT TRACK MATERIAL OFF-SITE. CLEAN THE WHEELS OF CONSTRUCTION VEHICLES IN ORDER TO REMOVE SOILS BEFORE THE VEHICLES LEAVE THE CONSTRUCTION SITE. WASH VEHICLES ONLY ON AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. CONTRACTOR SHALL REINFORCE EROSION CONTROL FACILITIES IN AREAS WHERE CONCENTRATED FLOWS OCCUR (SUCH AS SWALES, DITCHES, AND AREAS IN FRONT OF CULVERTS AND CATCH BASINS) BY BACKING THEM WITH SNOW FENCE, WIRE MESH, OR STIFF PLASTIC MESH REINFORCEMENT UNTIL PAVING AND TURF ESTABLISHMENT OPERATIONS HAVE BEEN COMPLETED. POSTS FOR THE REINFORCING FENCE SHALL BE 100 MM (4 INCH) DIAMETER WOOD POSTS, OR STANDARD STEEL FENCE POSTS WEIGHING NOT LESS THAN 0.59 KG (1.3 LBS) PER LINEAL FOOT, WITH A MINIMUM LENGTH OF 762 MM (30 INCHES) PLUS BURIAL DEPTH. SPACE POSTS FOR THE REINFORCING FENCE AT INTERVALS OF 3 M (10 FEET) OR LESS. DRIVE POSTS FOR THE REINFORCING FENCE AT LEAST 0.6 M (2 FEET) INTO THE GROUND.

GENERAL SOIL STABILIZATION: (SEE LANDSCAPE PLAN FOR MORE INFORMATION)

ESTABLISHMENT OF LAWN, PRAIRIE/WILDFLOWER AND/OR PLANT BED AREAS WILL BE NOTED ON THE LANDSCAPE PLAN

TO ENSURE STABILIZATION OF SOILS, RESTAKING OF SOD WHERE APPLICABLE, PROPER WATERING AND MULCH MAINTENANCE WILL BE REQUIRED. INSPECT SEEDED OR SODDED AREAS ON A TIMELY DAY-TO-DAY BASIS. IN THE EVENT OF A SEEDING FAILURE, RESEED AND REMULCH THE AREAS WHERE THE ORIGINAL SEED HAS FAILED TO GROW AND PERFORM ADDITIONAL WATERING AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER. SPECIAL MAINTENANCE PROVISIONS FOR WLD AND PRAIRIE GRASS SEEDED AREAS AS NOTED IN THE LANDSCAPE PLAN. PROMPTLY REPLACE ALL SOD THAT DRIES OUT TO THE POINT WHERE IT IS PRESUMED DEAD AND ALL SOD THAT HAS BEEN DAMAGED, DISPLACED, WEAKENED, OR HEAVILY INFESTED WITH WEEDS AT NO ADDITIONAL COST TO THE OWNER. .

IN AREAS TO BE TEMPORARILY SEEDED, USE INTRODUCED SEED MIXTURE EQUIVALENT TO WIDOT #10 OR #20. APPLY SEED MIXTURE PER WIDOT 630.3.3.5. INCORPORATE A FERTILIZER (SLOW RELEASE TYPE WITH 10 WEEK RESIDUAL) CONSISTING OF 23-0-30 (2N-P-K) INTO THE SOIL AT AN APPLICATION RATE OF 224 KG PER HECTARE (200 LBS PER ACRE) BY DISKING PRIOR TO SEEDING. IN PROBLEMATIC AREAS IT MAY BE NECESSARY TO USE A LOW PHOSPHORUS ORGANIC FERTILIZER IN CASES WHERE SEEDS MAY NOT GERMINATE. IF THIS IS THE CASE, SEED AND FERTILIZER SHALL BE DISKED INTO THE SURFACE AND MULCHED PROPERLY TO ENSURE GERMINATION AND UPTAKE OF THE PHOSPHORUS BY THE SEED.

TO ENSURE ADEQUATE GERMINATION OF THE SEED THE WORK WILL BE PERFORMED AS FOLLOWS: SPRING- FROM APRIL 1 THROUGH MAY 15, FALL- FROM AUGUST 15 TO SEPTEMBER 20. AFTER SEPTEMBER 20, WAIT UNTIL OCTOBER 30 TO PERFORM DORMANT SEEDING. DORMANT SEEDING WILL ONLY BE ALLOWED IF THE MAXIMUM SOIL TEMPERATURE AT A DEPTH OF 25 MM (1 INCH) DOES NOT EXCEED 4.44 DEGREES C (40 DEGREES F) IN ORDER TO PREVENT GERMINATION.

IN SEEDED AREAS WITH SLOPES STEEPER THAN 3:1 AND LENGTHS LESS THAN 15 METERS (50 FEET), INSTALL BIODEGRADABLE EROSION CONTROL BLANKETS UNIFORMLY OVER THE SOIL SURFACE BY HAND WITHIN 24 HOURS AFTER SEEDING IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. USE WIDOT URBAN TYPE B OR OWNER APPROVED EQUAL.

IN AREAS WHERE IRRIGATION IS TO BE INSTALLED, CONTRACTOR SHALL WORK IN ZONES TO FINISH GRADE AND INSTALL THE SYSTEM IN ZONES. NOTE- EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL SOILS HAVE BEEN STABILIZED WITH SOD OR SEEDED AREAS THAT EXHIBIT MINIMUM OF 70% LAWN VEGETATIVE COVERAGE. IF SILT FENCE HAS TO BE REMOVED TO INSTALL THE IRRIGATION SYSTEM, IT SHALL BE REINSTALLED AT THE END OF EACH WORK DAY OR USE BIO ROLLS TO PROVIDE PROTECTION DURING THE INSTALLATION PROCESS UNTIL LAWN AREAS HAVE SOD AND/OR PLANT BEDS ARE MULCHED.

IN AREAS TO BE SODDED, SILT FENCE CAN BE REMOVED SHORT TERM FOR WORKING, BUT EXPOSED SOIL AREAS SHALL BE SODDED OR EROSION CONTROL MEASURES SHALL BE REINSTALLED AT THE END OF EACH WORK DAY.

NOTE: THE PROJECT'S LANDSCAPE PLAN IS PART OF THE SWPP FOR SOIL STABILIZATION. REFERENCES SHALL BE MADE TO THE APPROVED LANDSCAPE PLAN. AMENDMENTS TO THE LANDSCAPE PLAN SHALL BE APPROVED BY THE OWNER AND DOCUMENTED AS PART OF THE SWPP



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PRELIMINARY PLANS FOR MUNICIPAL REVIEW ONLY

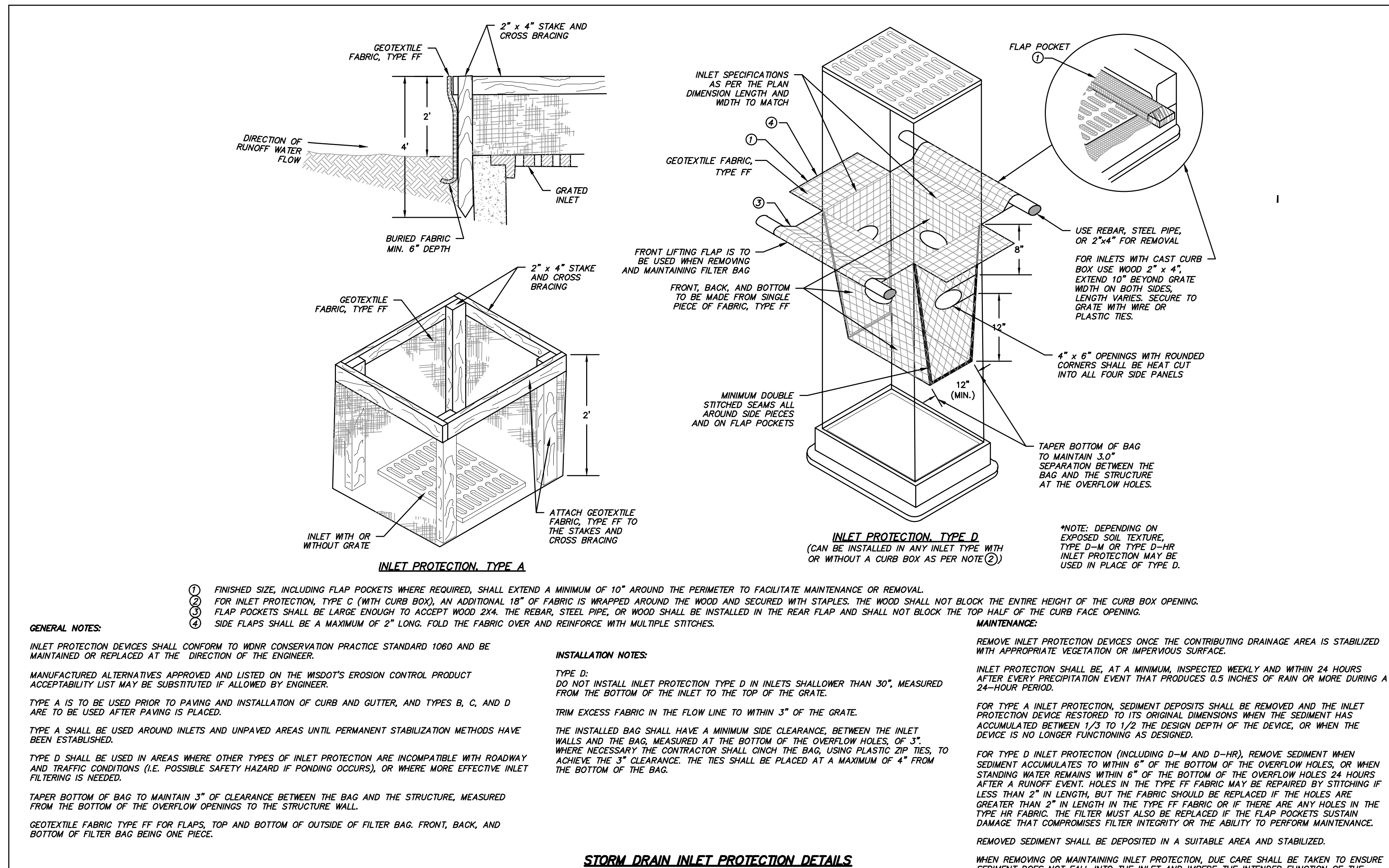
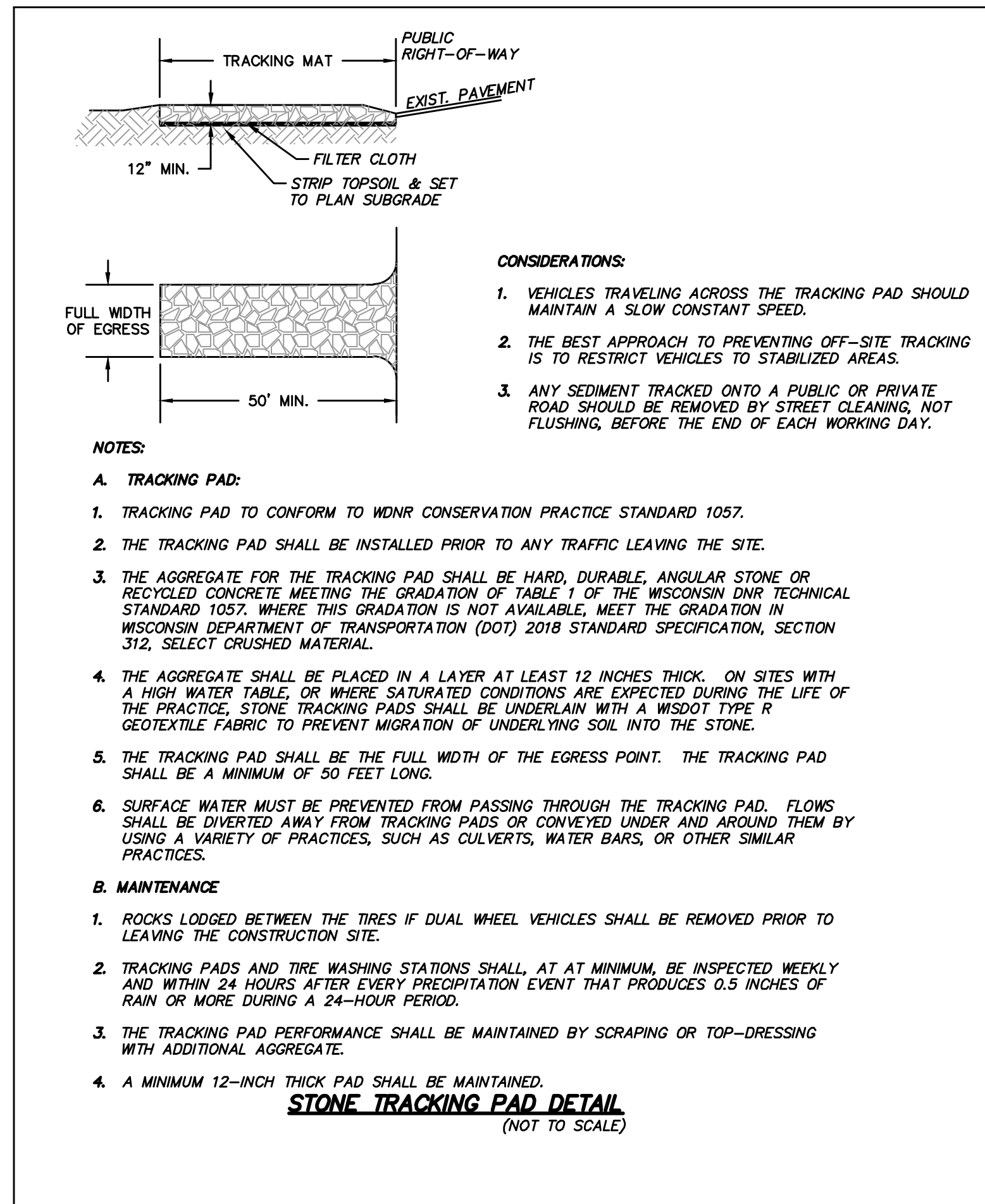
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SITE DETAILS

LES PAUL PARKWAY
WAUKESHA, WI

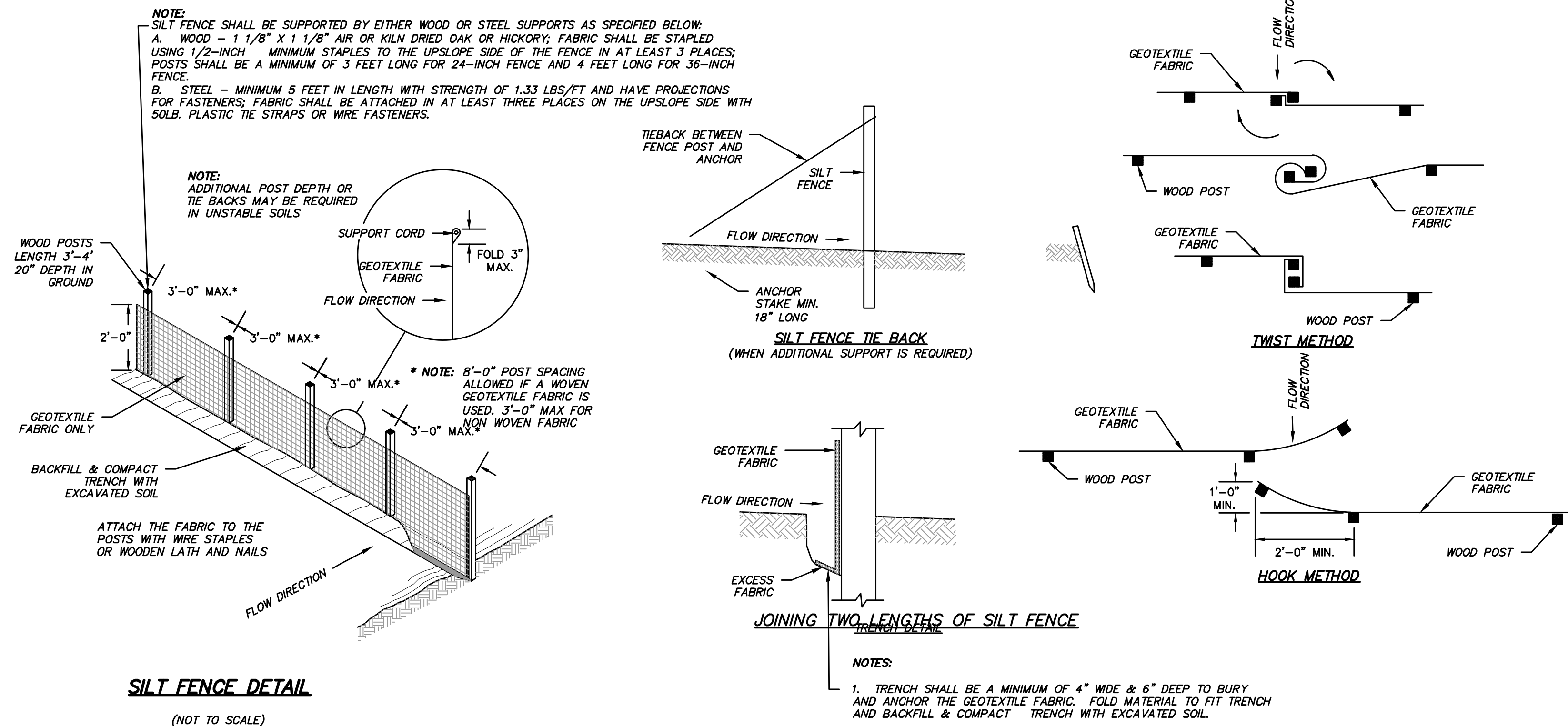
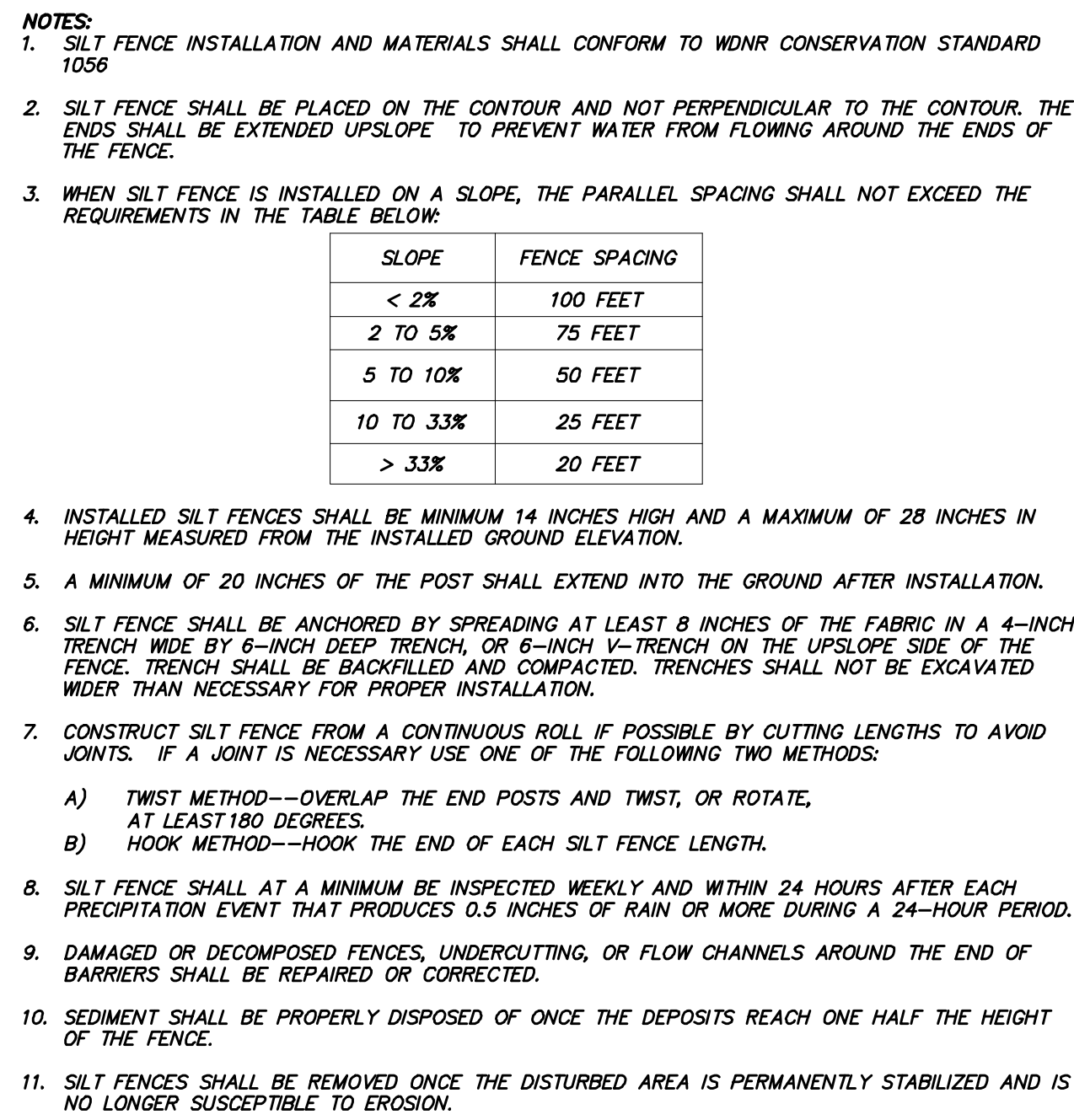
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ALL EROSION CONTROL MEASURES TO BE INSTALLED AND MAINTAINED PER WDNR STANDARDS

http://dnr.wi.gov/org/water/wm/nps/stormwater/techstds.htm



STORM DRAIN INLET PROTECTION DETAILS
(NOT TO SCALE)



Kwik Trip

Kwik Star

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PRELIMINARY PLANS FOR MUNICIPAL REVIEW ONLY

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SITE DETAILS

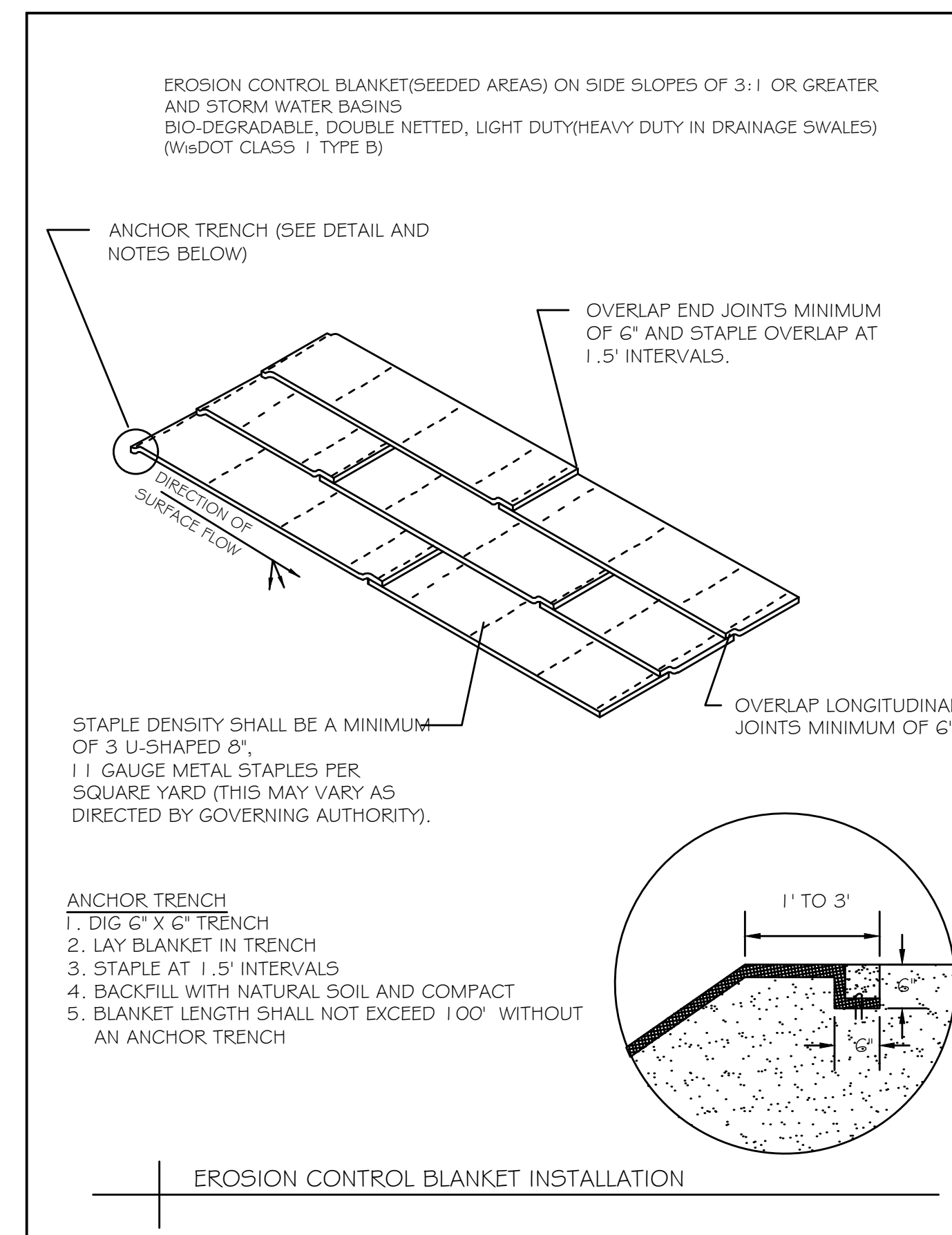
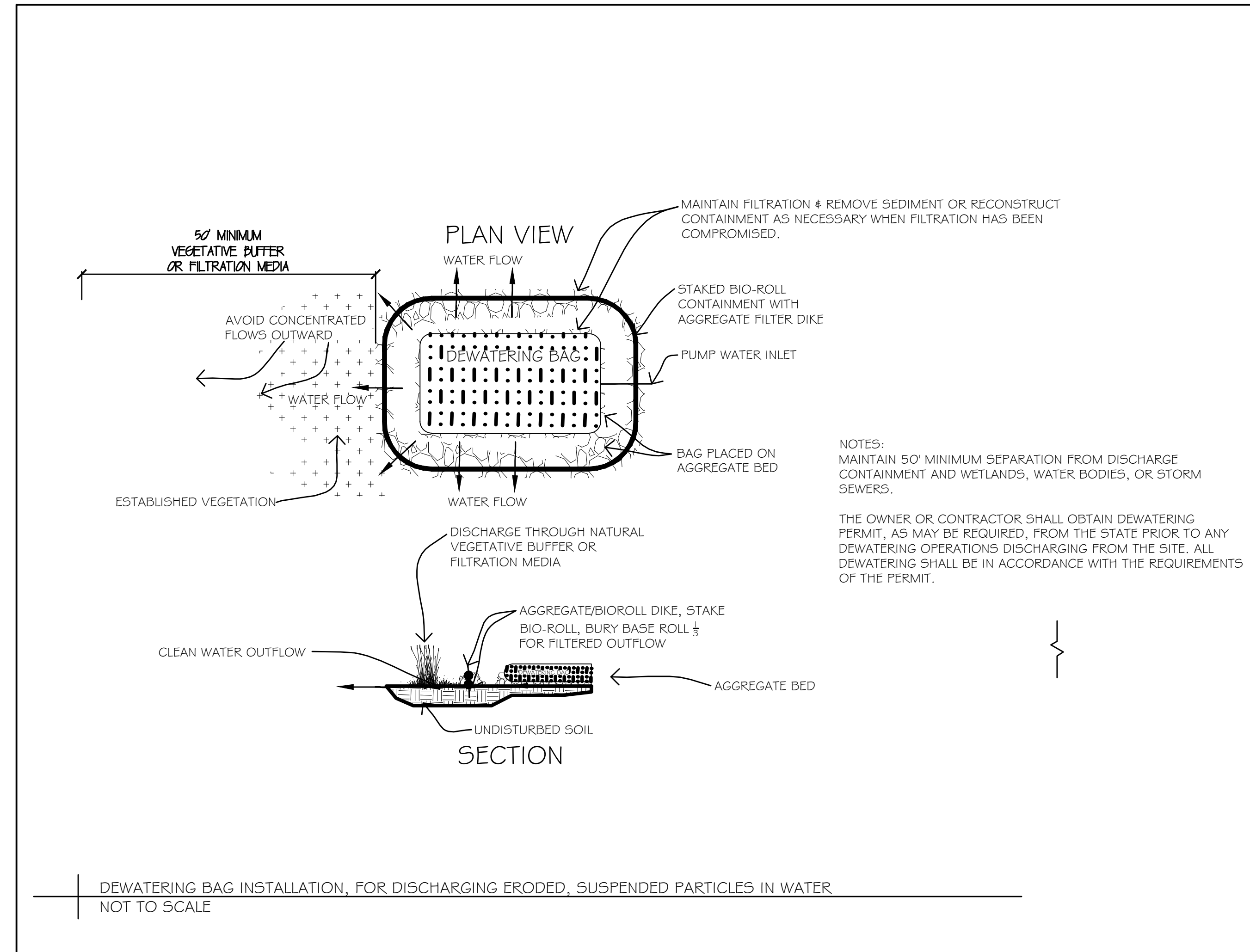
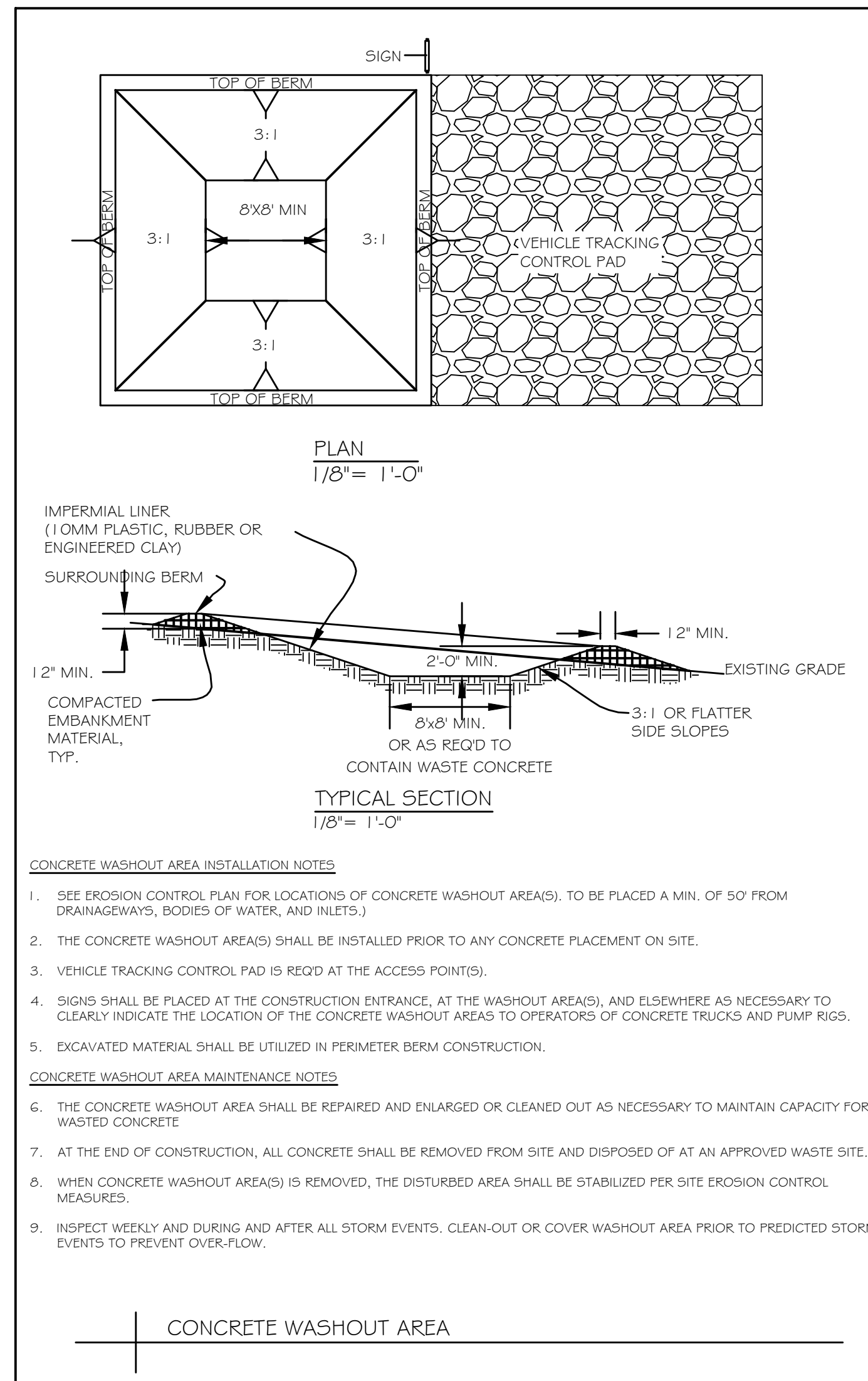
LES PAUL PARKWAY
WAUKESHA, WI

#	DATE	DESCRIPTION

DRAWN BY: CBW
SCALE: GRAPHIC
PROJ. NO.: 3210028
DATE: 10/20/2021
SHEET: SWP3

ALL EROSION CONTROL MEASURES TO BE INSTALLED AND MAINTAINED PER WDNR STANDARDS

<http://dnr.wi.gov/org/water/wm/nps/stormwater/techstds.htm>



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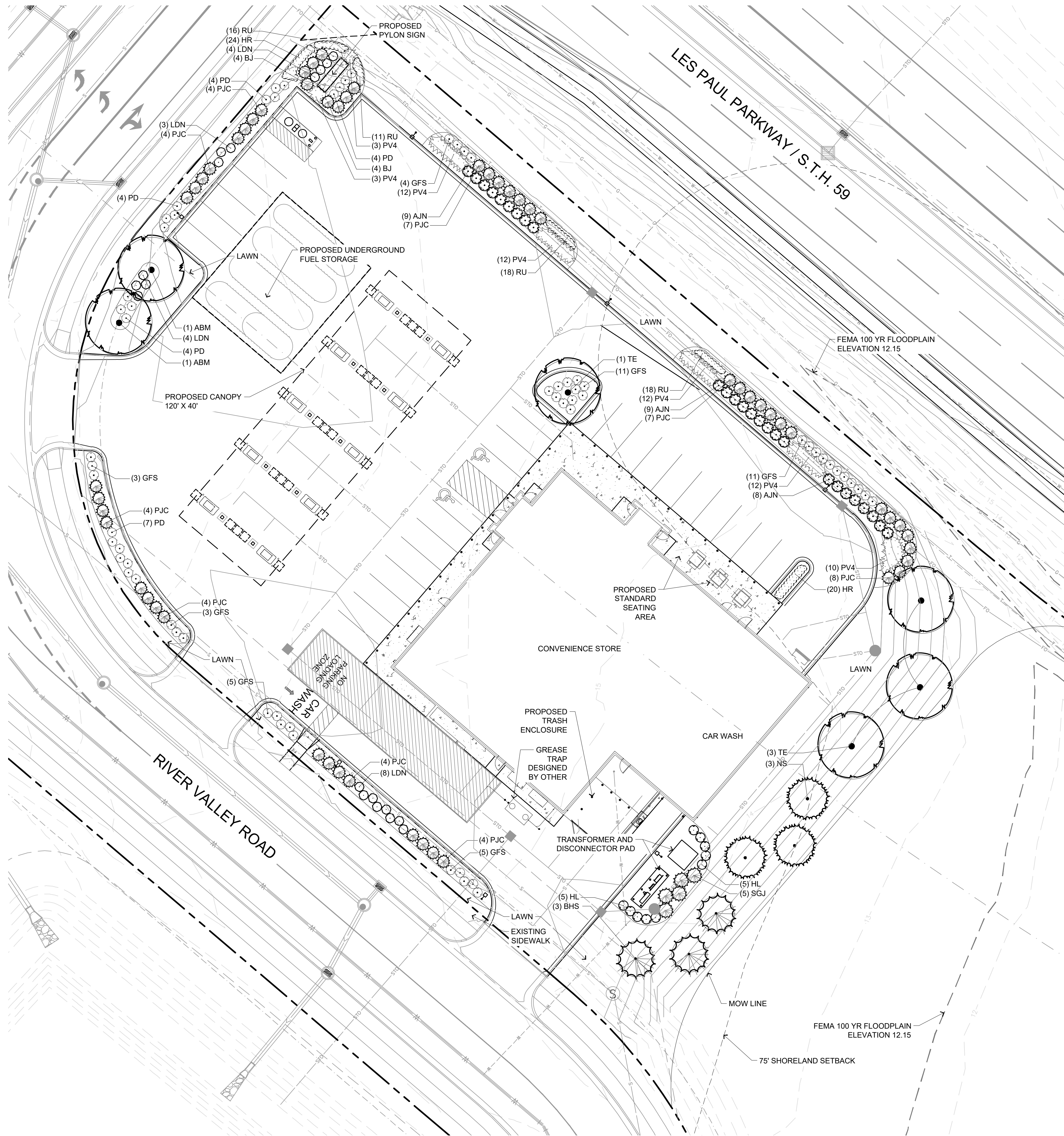


PRELIMINARY PLANS FOR MUNICIPAL REVIEW ONLY

CONVENIENCE STORE #1219
EROSION CONTROL DETAILS
LES PAUL PARKWAY
WAUKESHA, WI

#	DATE	DESCRIPTION

DRAWN BY: CBW
SCALE: GRAPHIC
PROJ. NO. 3210028
DATE 10/20/2021
SHEET SWP4



PLANT SYMBOL KEY

- SHADE TREES
- EVERGREEN TREES
- DECIDUOUS SHRUBS
- FLOWERING SHRUBS
- EVERGREEN SHRUBS
- ORNAMENTAL GRASSES
- PERENNIALS

TURF SEED - DURABLE, PREMIUM COMMERCIAL BLEND (TO BE SPECIFIED)
 NOTE: ALL DETAILS AND SPECIFICATIONS TO BE DETERMINED ON FINAL LANDSCAPE PLANS.

SCALE: 1" = 20'

PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET
 SIZE ARE 1/4" SCALE - 1"=40'

**KWIK
TRIP**

**KWIK
STAR**

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PRELIMINARY PLANS FOR
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PLANT SCHEDULE

TREES	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS
ABM	2	Autumn Blaze Maple	Acer freemanii 'Autumn Blaze'	2 1/2" CAL	B&B	Full, matching heads
NS	3	Norway Spruce	Picea abies	7' HT	B&B	Semi-sheared, fully branched to ground
BHS	3	Black Hills Spruce	Picea glauca 'Densata'	7' HT	B&B	Semi-sheared, fully branched to ground
TE	4	Triumph Elm	Ulmus x 'Morton Glossy' TM	2 1/2" CAL	B&B	Full, matching heads
DECIDUOUS SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS
HL	10	Little Quick Fire Hydrangea	Hydrangea paniculata 'Little Quick Fire'	24" HT	CONT.	
PD	23	Triny Wine Gold Ninebark	Physocarpus opulifolius 'SMNPOTWG' TM	18" HT	CONT.	
AJN	26	Amber Jubilee Ninebark	Physocarpus opulifolius 'JeFam'	24" HT	CONT.	
LDN	19	Little Devil Dwarf Ninebark	Physocarpus opulifolius 'Little Devil' TM	18" HT	CONT.	
GFS	42	Goldflame Spirea	Spiraea x bumalda 'Goldflame'	15" HT	CONT.	
EVERGREEN SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS
PJC	46	Kalloy Compact Pfizer Juniper	Juniperus chinensis 'Kalloy Compact'	18"SPD	CONT.	
SGJ	5	Sea Green Juniper	Juniperus chinensis 'Sea Green'	18"SPD	CONT.	
BJ	8	Broadmoor Juniper	Juniperus sibirica 'Broadmoor'	18"SPD	CONT.	
ORNAMENTAL GRASSES	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS
PV4	64	Northwind Switch Grass	Panicum virgatum 'Northwind'	1 GAL	POT	30" Spacing
PERENNIALS	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS
HR	44	Red Hot Returns Daylily	Hemerocallis x 'Red Hot Returns'	1 GAL	CONT.	18" Spacing
RU	63	American Gold Rush Rutbeckia	Rudbeckia x 'American Gold Rush' PP28,498	1 GAL	CONT.	18" Spacing

**CONVENIENCE STORE #1219
 CONCEPTUAL LANDSCAPE PLAN**
 LES PAUL PARKWAY
 WAUKESHA, WI

#	DATE	DESCRIPTION

DRAWN BY	ALS
SCALE	GRAPHIC
PROJ. NO.	3210028
DATE	10/20/2021
SHEET	LP 1.0