



General Engineering Company
 P.O. Box 340 • 916 Silver Lake Dr. • Portage, WI 53901
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CONSTRUCTION NOTES

GENERAL

- ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED, BY CONTRACTOR, PRIOR TO CONSTRUCTION.
- ALL ASPHALT REPAIRS/REPLACEMENT SHALL BE SAWCUT TO MATCH EXISTING PAVEMENT AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ALL EXISTING ASPHALT AND GRAVEL DRIVEWAY APRONS THAT ARE REQUIRED TO BE RECONSTRUCTED SHALL BE REPLACED WITH 8" OF CRUSHED AGGREGATE BASE COURSE AND 3" OF ASPHALT. ALL EXISTING CONCRETE DRIVEWAY APRONS THAT ARE REQUIRED TO BE RECONSTRUCTED SHALL BE REPLACED WITH 6" CONCRETE.

WATER MAIN

- EXISTING WATER MAIN LOCATIONS, SIZES, AND TYPES SHOULD BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO MAKING ANY CONNECTIONS.
- UNLESS OTHERWISE INDICATED BY DESIGN GRADE, MAINTAIN A 7.0' MINIMUM DEPTH OF COVER OVER PROPOSED WATER MAIN AND WATER MAIN LATERALS.
- UNLESS OTHERWISE INDICATED FOR WATER MAIN CROSSINGS BELOW STORM SEWER & SANITARY SEWER PIPES CONTRACTOR SHALL MAINTAIN A MINIMUM 18" OF SEPARATION FROM EDGE OF PIPE TO EDGE OF PIPE.
- LATERALS SHALL BE 4" DUCTILE IRON UNLESS OTHERWISE INDICATED.

SANITARY SEWER

- EXISTING SANITARY SEWER LOCATIONS, SIZES, AND TYPES SHOULD BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO MAKING ANY CONNECTIONS.
- LATERALS SHALL BE 6" PVC UNLESS OTHERWISE INDICATED.

STORM SEWER

- STORM SEWER PIPE LENGTHS ARE SHOWN MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

GRADING & EROSION CONTROL NOTES

- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
- SILT FENCE & ROCK CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES, INCLUDING CLEARING & GRUBBING.
- ALL STORM SEWER INLETS SHALL HAVE INLET PROTECTION TYPE-D INSTALLED UPON INLET INSTALLATION.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE ADDED ON AN AS-NEEDED BASIS.
- ANY AREAS WHERE GRADING IS COMPLETE SHALL BE STABILIZED WITH FERTILIZER, SEED, & MULCH AS SOON AS POSSIBLE.
- A COPY OF THIS EROSION CONTROL PLAN SHALL BE KEPT ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
- STOCKPILES LEFT INACTIVE FOR 7 DAYS SHALL BE SEEDED AND SURROUNDED BY SILT FENCE.
- ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED BY RUNOFF INTO RECEIVING CHANNEL.
- STREETS SHALL BE SWEEPED AT THE END OF EACH WORK DAY OR AS DIRECTED BY THE MUNICIPALITY.
- TRACKING PADS SHALL BE USED AT THE CONSTRUCTION ENTRANCE AND EXITS.
- ALTHOUGH ROCK CONSTRUCTION TRACKING PADS MAY NOT BE SHOWN ON THE PLANS, THE CONTRACTOR SHALL INSTALL THEM AS NECESSARY OR AS DIRECTED BY THE ENGINEER TO MINIMIZE TRACKING ONTO ADJACENT STREETS. THESE PADS ARE CONSIDERED INCIDENTAL TO THE WORK AND WILL NOT BE MEASURED OR PAID FOR SEPARATELY.
- CONTRACTOR WILL BE RESPONSIBLE FOR ALL DUST CONTROL.
- POSITIVE DRAINAGE AWAY FROM THE BUILDING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE CONFIRMED BY THE ENGINEER.
- DOWN SPOUTS SHALL BE DIRECTED IN A SAFE MANNER AND COMPLY WITH ALL LOCAL AND STATE REGULATIONS.
- SEDIMENT WILL BE REMOVED FROM BEHIND SEDIMENT FENCES AND BARRIERS BEFORE IT REACHES A DEPTH THAT IS EQUAL TO HALF THE BARRIER'S HEIGHT.
- BREAKS AND GAPS IN SEDIMENT FENCES AND BARRIERS WILL BE REPAIRED IMMEDIATELY.
- ALL SEDIMENT THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS WILL BE CLEANED UP BEFORE THE END OF THE SAME WORKDAY.
- ALL INSTALLED EROSION CONTROL PRACTICES WILL BE MAINTAINED UNTIL THE DISTURBED AREAS THEY PROTECT ARE STABILIZED.

EXISTING LINETYPES LEGEND

- San— SANITARY SEWER
- ST— STORM SEWER
- WM— WATER MAIN
- FM— FORCE MAIN
- E— ELECTRIC
- OE— OVERHEAD ELECTRIC
- GAS— GAS
- FO— FIBER OPTIC
- T— TELEPHONE
- TV— TV
- X— FENCE
- GL— GRADING LIMITS
- SF— SILT FENCE
- DB— DOUBLE SEDIMENT BARRIER
- ||||| TRAIN TRACKS
- ~~~~~ TREELINE

SYMBOLS LEGEND

- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING HYDRANT
- PROPOSED HYDRANT
- VALVE
- CURB STOP
- TRACER WIRE TERMINAL BOX
- WELL
- PROPERTY CORNER
- LIGHT POLE
- POWER / TELEPHONE POLE
- GUY WIRE
- UTILITY PEDESTAL
- SIGN
- SOIL BORING
- MONITORING WELL
- MAILBOX
- POTENTIAL HAZARD
- BENCHMARK
- CONTROL POINT
- DECIDUOUS TREE
- CONIFEROUS TREE
- HANDICAP SYMBOL

ABBREVIATION LIST

- B-B = BACK TO BACK
- BOC = BACK OF CURB
- BOP = BOTTOM OF PIPE
- BOW = BOTTOM OF WALL
- C-C = CENTER TO CENTER
- CL = CENTERLINE
- CP = CONTROL POINT
- DIA = DIAMETER
- ELEV = ELEVATION
- EOG = EDGE OF GRAVEL
- EOP = EDGE OF PAVEMENT
- EX = EXISTING
- FL = FLOW LINE
- FM = FORCE MAIN
- HC = HORIZONTAL CURVE
- HP = HIGH POINT
- IE = INVERT ELEVATION
- INL = INLET
- INV = INVERT
- IOS = INSIDE OF STRUCTURE
- L = LENGTH
- LN = LINE
- LP = LOW POINT
- MH = MANHOLE
- MIN = MINIMUM
- MP = MIDPOINT
- PC = POINT OF CURVE
- PI = POINT OF INTERSECTION
- PRO = PROPOSED
- PT = POINT OF TANGENT
- PVC = POINT OF VERTICAL CURVE
- PVI = POINT OF VERTICAL INTERSECTION
- PVMT = PAVEMENT
- PVT = POINT OF VERTICAL TANGENT
- R = RADIUS
- ROW = RIGHT OF WAY
- S = SANITARY SEWER SERVICE LATERAL
- SAN = SANITARY SEWER
- SE = SPOT ELEVATION
- ST = STORM SEWER
- STA = STATION
- STD = STANDARD
- TC = TOP OF CURB
- TOP = TOP OF PIPE
- TOW = TOP OF WALL
- TYP = TYPICAL
- UOS = UNLESS OTHERWISE SPECIFIED
- VC = VERTICAL CURVE
- W = WATER MAIN SERVICE LATERAL
- WM = WATER MAIN



DIGGERS HOTLINE
 DIAL 811 or 1-800-242-8511
 To Obtain Location of Participating Underground Facilities Before You Dig in Wisconsin
 Wis Statute 182.0175 (1974)
 Requires Min. 3 Work Days Notice Before You Excavate

OWNER

LSRE WATERTOWN LLC
 1727 S CHURCH STREET,
 WATERTOWN, WI 53094

UTILITIES

- ELECTRIC**
WE ENERGIES
 315 WILLIAMS STREET
 WATERTOWN, WI 53094
 PHONE: (920) 262-6832
- TELEPHONE**
SBC BUSINESS COMM. SERVICES
 2005 PEWAUKEE RD
 WAUKESHA, WI 53188
 PHONE: (800) 480-8088
- GAS**
WE ENERGIES
 315 WILLIAMS STREET
 WATERTOWN, WI 53094
 PHONE: (920) 262-6832
- CABLE TV**
CHARTER COMMUNICATIONS
 2701 DANIELS STREET
 MADISON, WI 53718
 PHONE: (608) 274-3822
- WATER**
WATERTOWN WATER DEPARTMENT
 800 HOFFMAN DRIVE
 WATERTOWN, WI 53094
 PHONE: (608) 837-5500
- MUNICIPALITY**
CITY OF WATERTOWN
 106 JONES STREET P.O. BOX 477
 WATERTOWN, WI 53094
 PHONE: (920) 262-4000

LEGEND & NOTES
TOMMY'S CAR WASH
LSRE WATERTOWN LLC
 CITY OF WATERTOWN
 JEFFERSON COUNTY, WI

REVISIONS	NO.	BY	DATE

SCALE

DRAWN BY	MME
REVIEWED BY	KDA
ISSUE DATE	02/20/2026
GEC FILE NO.	01-25000-677
SHEET NO.	



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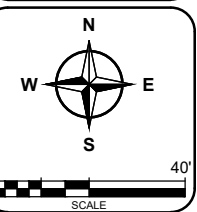
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EXISTING SITE PLAN
TOMMY'S CAR WASH
LSRE WATERTOWN LLC

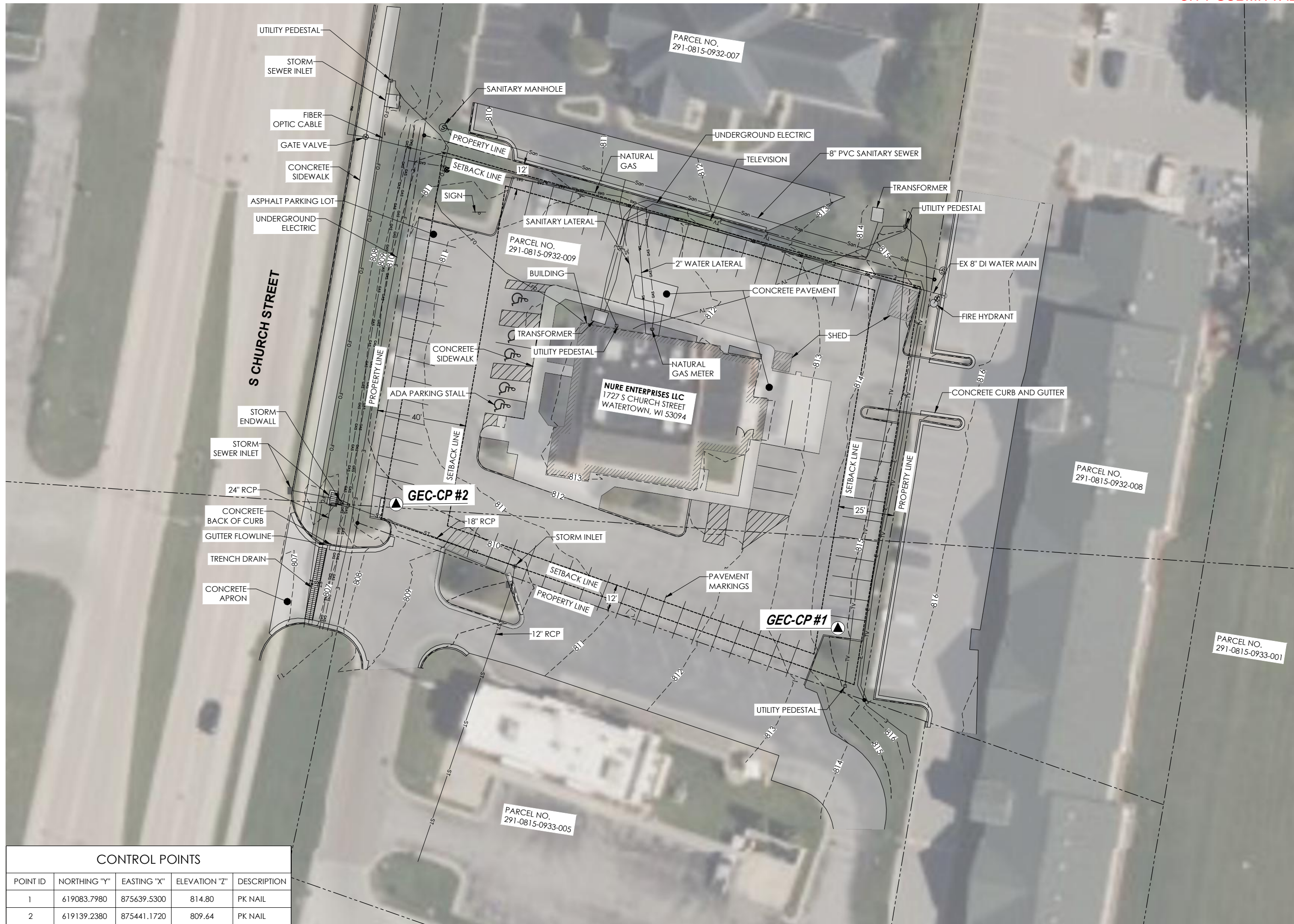
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C1.0



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CONTROL POINTS				
POINT ID	NORTHING "Y"	EASTING "X"	ELEVATION "Z"	DESCRIPTION
1	619083.7980	875639.5300	814.80	PK NAIL
2	619139.2380	875441.1720	809.64	PK NAIL

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SURFACE LEGEND:

- PRO TYPE B CONCRETE
- PRO TYPE C CONCRETE
- PRO TYPE 2 ASPHALT PAVEMENT

PARKING STALL COUNT:
 17 VACUUM STALLS
 6 STANDARD PARKING STALLS
 1 ADA ACCESSIBLE PARKING STALL
 24 TOTAL PARKING STALLS

PARCEL NO.
291-0815-0932-007

NOTES:

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CITY SUBMITTAL

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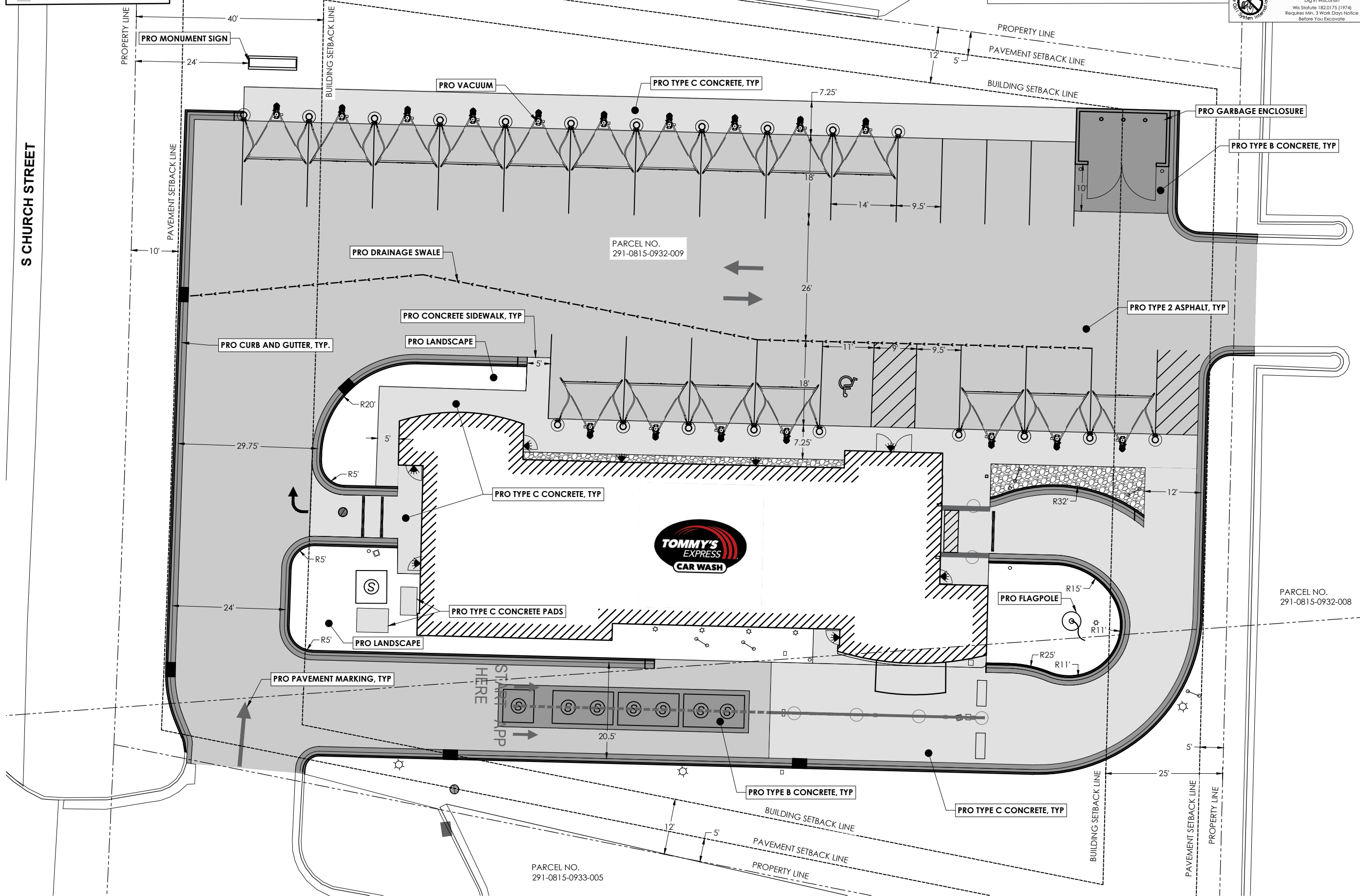
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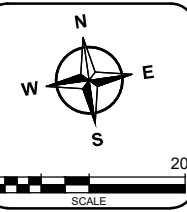
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PROPOSED SITE PLAN
TOMMY'S CAR WASH
LSRE WATERTOWN LLC

CITY OF WATERTOWN
 JEFFERSON COUNTY, WI

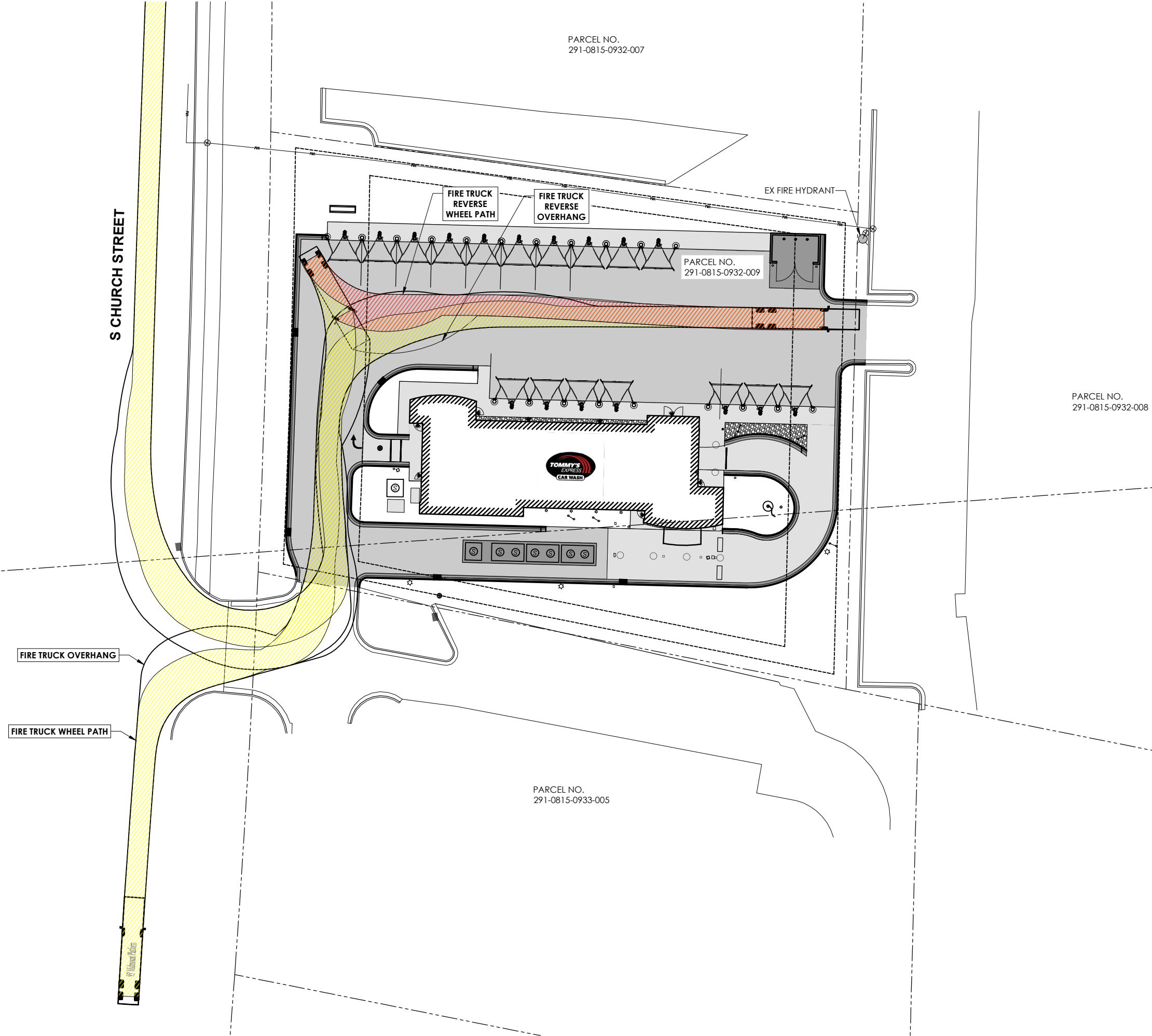


NO.	DATE	BY	REVISIONS



DRAWN BY	MME
REVIEWED BY	KDA
ISSUE DATE	02/20/2026
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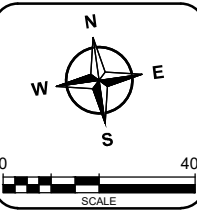
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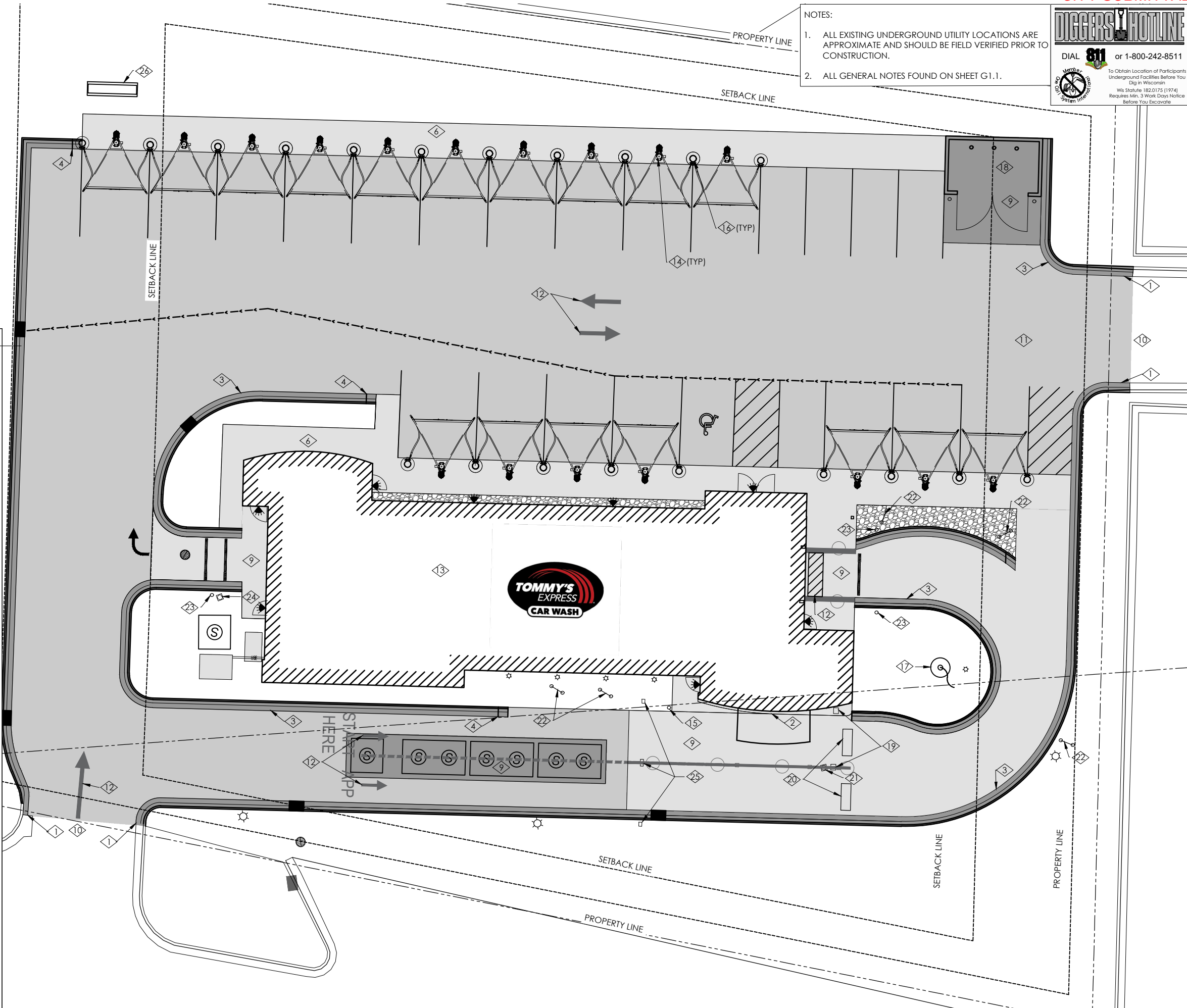
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S CHURCH STREET

- SITE NOTES:**
- MATCH EXISTING CONCRETE CURB.
 - 6" CHAMFERED CONCRETE CURB, TYP.
 - 24" CONCRETE CURB, TYP. (SEE GRADING PLAN FOR TYPES AND LOCATIONS)
 - CURB TAPER, TYP.
 - MATCH EXISTING CONCRETE SIDEWALK.
 - CONCRETE SIDEWALK, TYP. (SEE PLAN FOR WIDTHS)
 - THICKENED EDGE SIDEWALK, TYP. (SEE PLAN FOR WIDTHS)
 - MATCH EXISTING CONCRETE PAVING.
 - CONCRETE PAVING, TYP.
 - MATCH EXISTING ASPHALT PAVING.
 - ASPHALT PAVING, TYP.
 - PAVEMENT MARKING.
 - PROPOSED BUILDING.
 - VACUUM & CANOPY STANCHION. (PROVIDED BY OWNER AND INSTALLED BY G.C.)
 - CRASH BOLLARD, TYP.
 - RED BALL VACUUM HOSE HOLDER (PROVIDED BY OWNER AND INSTALLED BY G.C.)
 - FLAGPOLE.
 - DUMPSTER ENCLOSURE w/CRASH BOLLARDS. (SEE ARCHITECTURAL PLANS)
 - GATE (SEE ARCHITECTURAL PLANS)
 - GATE SENSING LOOP (COORDINATE WITH ELECTRICIAN.)
 - SIGNAGE - APPROVE / GO LIGHT (SEE ARCHITECTURAL PLANS)
 - SIGNAGE - U-SHAPED SNAP SIGN (SEE ARCHITECTURAL PLANS)
 - CAMERA POLE (SEE ARCHITECTURAL PLANS)
 - SIGNAGE - RELAX / GO LIGHT (SEE ARCHITECTURAL PLANS)
 - LICENSE PLATE READER (SEE ARCHITECTURAL PLANS)
 - MONUMENT SIGN



NOTES:

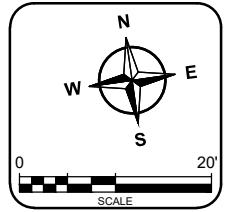
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 Requires Min. 3 Work Days Notice Before You Excavate

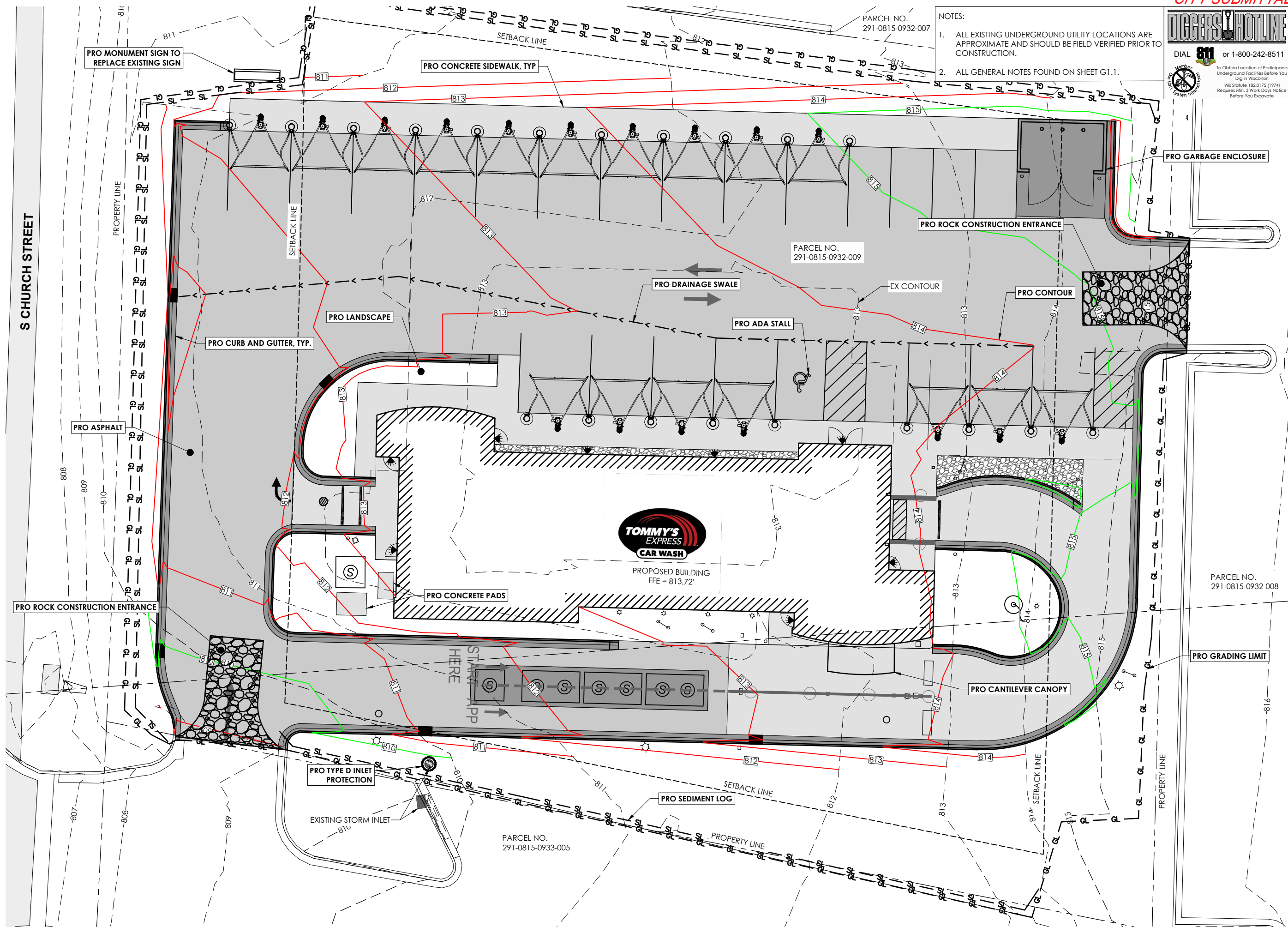
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TOMMY'S CAR WASH
LSRE WATERTOWN LLC
 CITY OF WATERTOWN
 JEFFERSON COUNTY, WI

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C3.1



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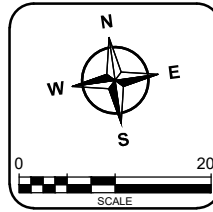


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PROPOSED GRADING PLAN
TOMMY'S CAR WASH
LSRE WATERTOWN LLC
 CITY OF WATERTOWN
 JEFFERSON COUNTY, WI

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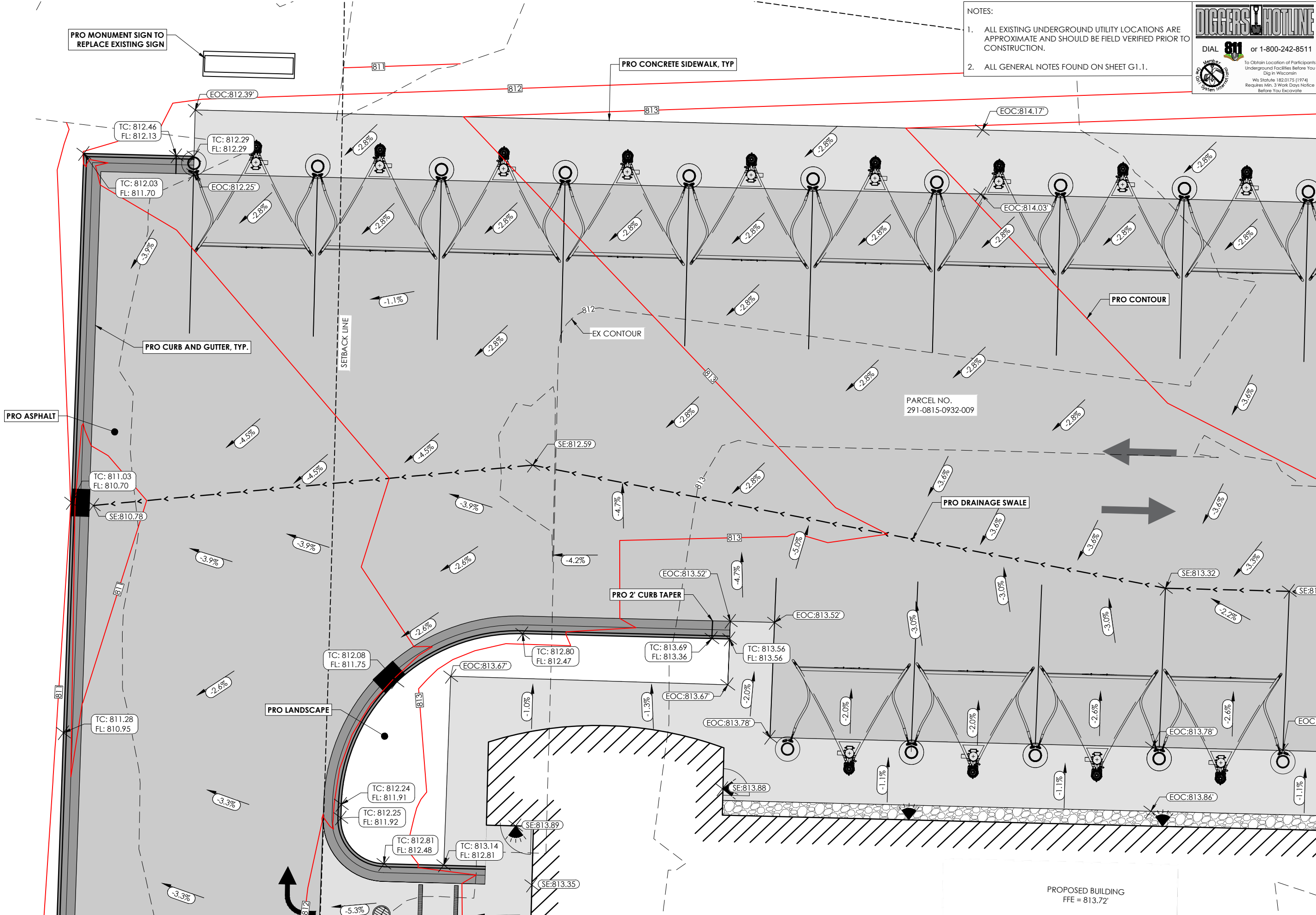
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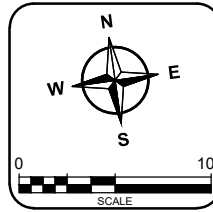
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PROPOSED SPOT ELEVATION PLAN
TOMMY'S CAR WASH
LSRE WATERTOWN LLC
 CITY OF WATERTOWN
 JEFFERSON COUNTY, WI

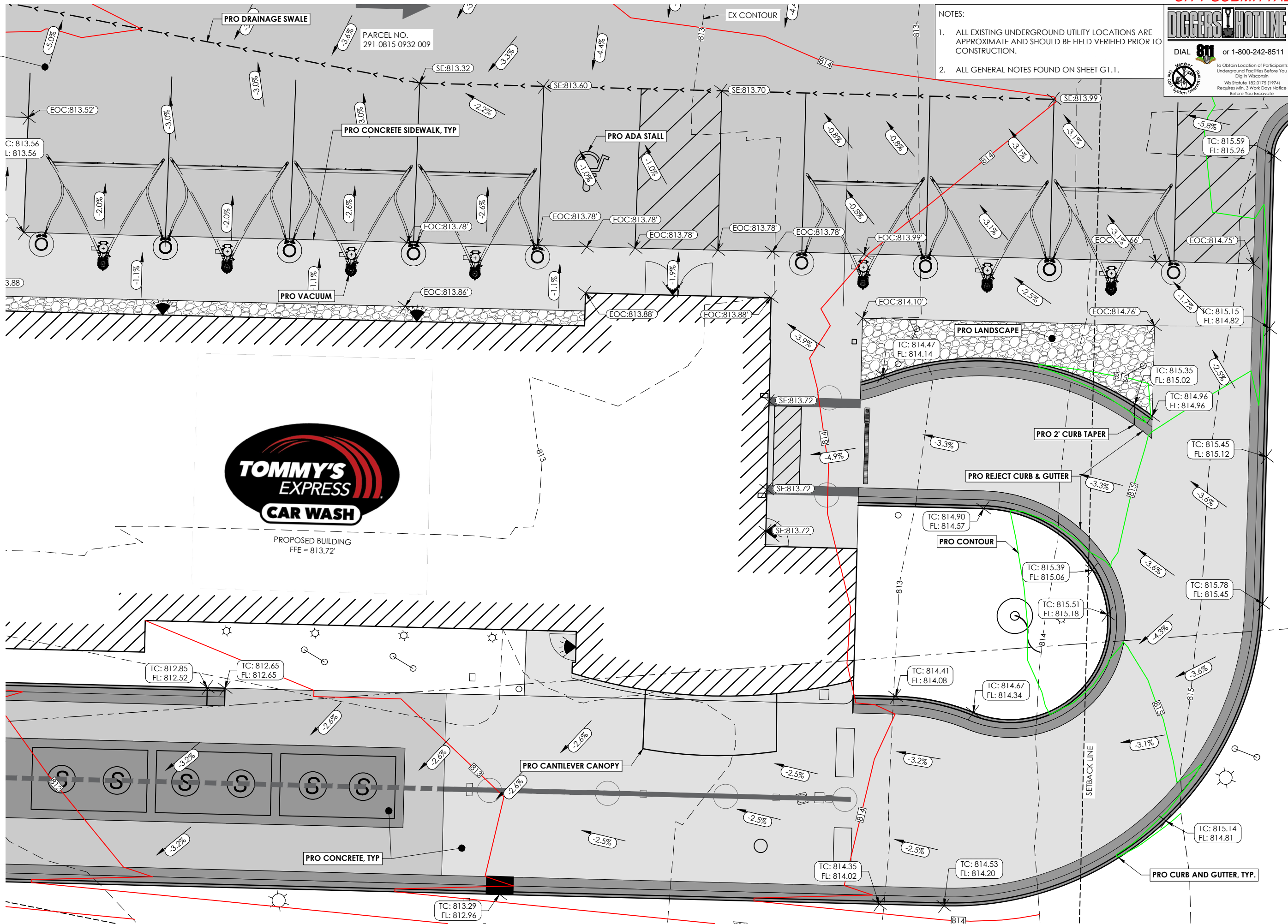


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 SHEET NO.: **C5.1**

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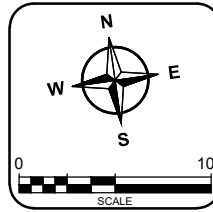
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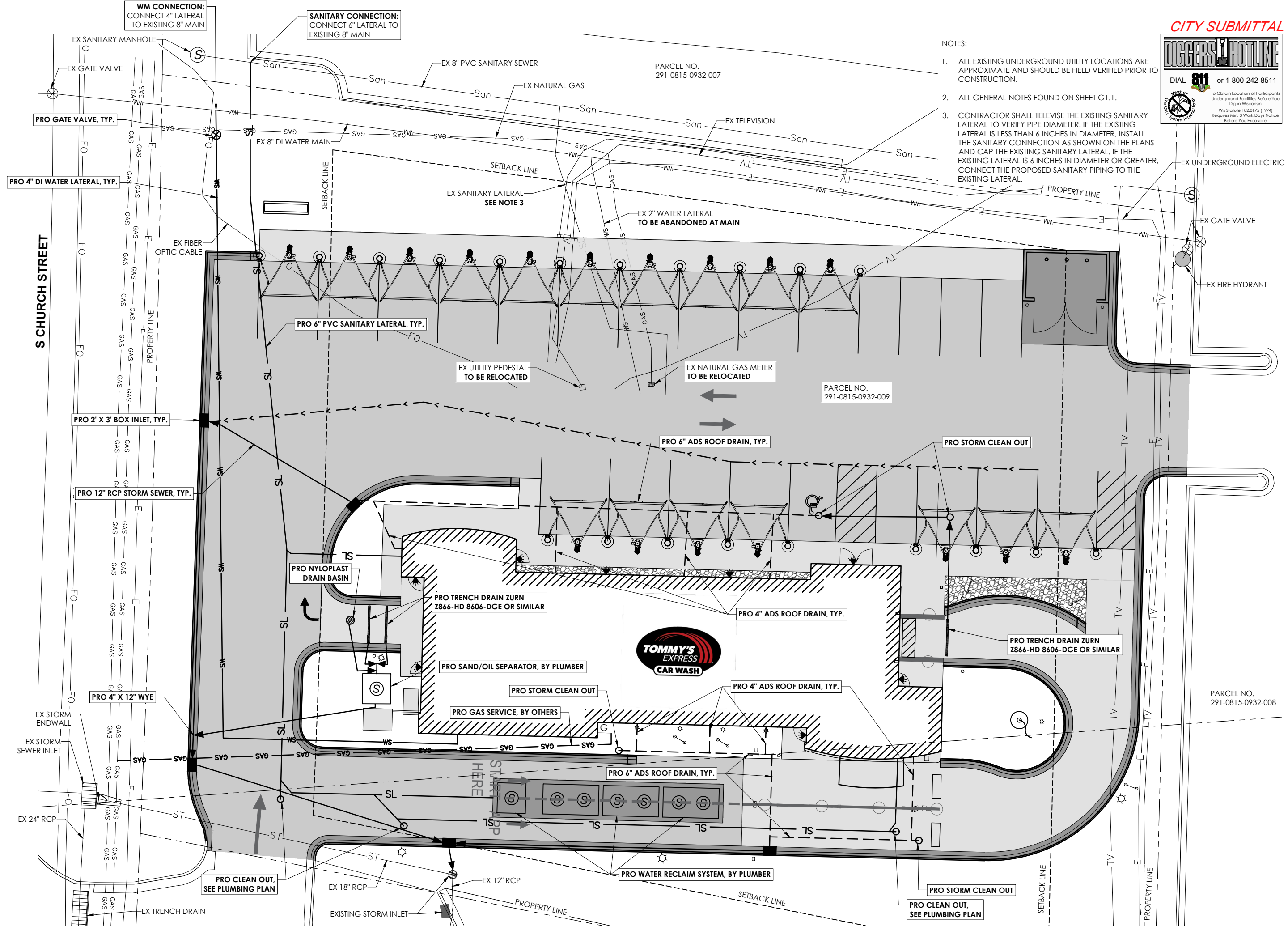
PROPOSED SPOT ELEVATION PLAN
TOMMY'S CAR WASH
LSRE WATERTOWN LLC
 CITY OF WATERTOWN
 JEFFERSON COUNTY, WI

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 2. ALL GENERAL NOTES FOUND ON SHEET G1.1.
 3. CONTRACTOR SHALL TELEVIEW THE EXISTING SANITARY LATERAL TO VERIFY PIPE DIAMETER. IF THE EXISTING LATERAL IS LESS THAN 6 INCHES IN DIAMETER, INSTALL THE SANITARY CONNECTION AS SHOWN ON THE PLANS AND CAP THE EXISTING SANITARY LATERAL. IF THE EXISTING LATERAL IS 6 INCHES IN DIAMETER OR GREATER, CONNECT THE PROPOSED SANITARY PIPING TO THE EXISTING LATERAL.



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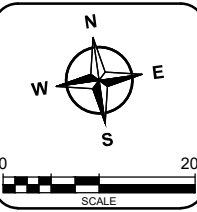
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CITY OF WATERTOWN
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STRUCTURE TABLE		PIPE TABLE						
STRUCTURE NAME	STRUCTURE DETAILS	PIPE NAME	TYPE	SIZE	LENGTH	SLOPE	INVERT 1	INVERT 2
EX STRM MH	4' ID PRECAST RIM: 809.4'± DEPTH: 2.7' IE: 806.68' (12" RCP) N IE: 806.68' (12" RCP) S IE: 806.68' (18" RCP) W	PR STRM PIPE #1	RCP	12"	63.8'	0.50%	807.11	806.79
		PR STRM PIPE #2	RCP	12"	6.5'	1.70%	806.79	806.68
		PR STRM PIPE #3	RCP	12"	74.7'	1.00%	806.79	807.54
		PR STRM PIPE #4	RCP	12"	41.9'	1.00%	808.34	807.92
MH - 25	Null Structure RIM: 812.9'± DEPTH: 9.9' IE: 810.45' (6" PVC Pipe) N IE: 810.45' (6" PVC Pipe) N IE: 810.45' (12" RCP) N	PR STRM PIPE #5	RCP	12"	80.2'	1.00%	807.92	807.11
PR STRM INLET #1	2' X 3' BOX INLET RIM: 810.2'± DEPTH: 3.1' IE: 807.11' (12" RCP) N IE: 807.11' (12" RCP) SE							
PR STRM INLET #2	2' X 3' BOX INLET RIM: 811.4'± DEPTH: 4.7' IE: 806.79' (12" RCP) NW IE: 806.79' (12" RCP) E IE: 806.79' (12" RCP) S							
PR STRM INLET #3	2' X 3' BOX INLET RIM: 813.3'± DEPTH: 5.8' IE: 807.54' (12" RCP) W IE: 808.04' (6" PVC) N							
PR STRM INLET #4	2' X 3' BOX INLET RIM: 812.1'± DEPTH: 3.7' IE: 808.34' (12" RCP) NW IE: 808.84' (6" PVC) E							
PR STRM INLET #5	2' X 3' BOX INLET RIM: 811.0'± DEPTH: 3.1' IE: 807.92' (12" RCP) SE IE: 807.92' (12" RCP) S							
PR STRM MH #1	24" ADS NYLOPLAST RIM: 812.6'± DEPTH: 2.1' IE: 810.52' (12" RCP) S							

PARCEL NO.
291-0815-0932-007

NOTES:

1. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
2. ALL GENERAL NOTES FOUND ON SHEET G1.1.

CITY SUBMITTAL

DIGGERS HOTLINE
DIAL 811 or 1-800-242-8511
To Obtain Location of Participants Underground Facilities Before You Dig in Wisconsin
Wis Statute 182.0175 (1974)
Requires Min. 3 Work Days Notice Before You Excavate



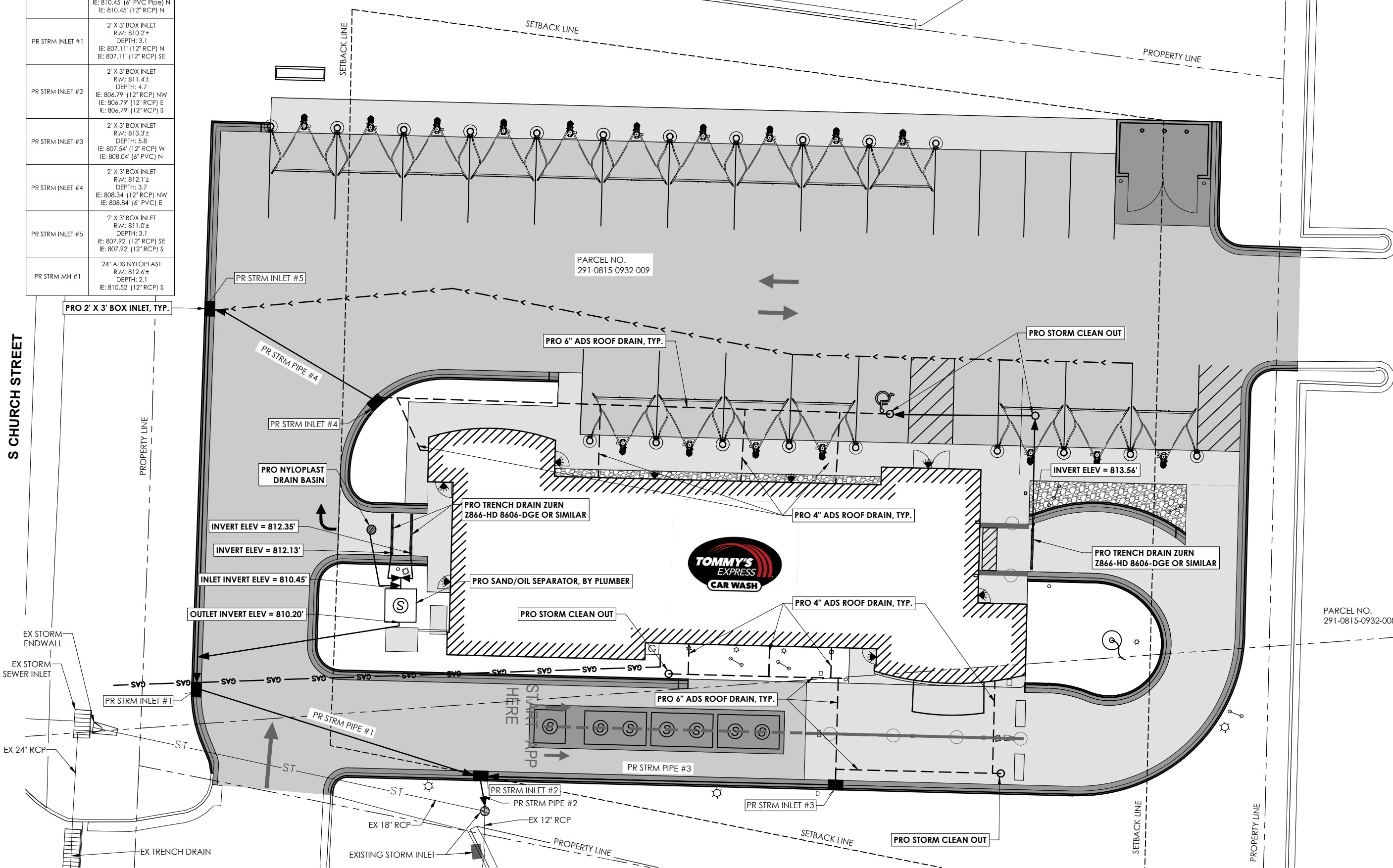
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PROPOSED STORM SEWER PLAN
TOMMY'S CAR WASH
LSRE WATERTOWN LLC

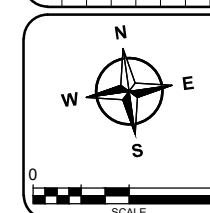
CITY OF WATERTOWN
JEFFERSON COUNTY, WI

S CHURCH STREET



PARCEL NO.
291-0815-0932-008

REVISIONS	NO.	BY	DATE



DRAWN BY	MME
REVIEWED BY	KDA
ISSUE DATE	02/20/2025
GEC FILE NO.	01-25000-677
SHEET NO.	C6.1



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CONSTRUCTION DETAILS
TOMMY'S CAR WASH
LSRE WATERTOWN LLC

CITY OF WATERTOWN
JEFFERSON COUNTY, WI

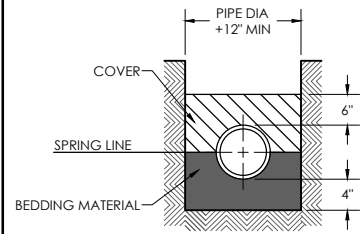
REVISIONS	NO.	BY	DATE

AS NOTED
SCALE

DRAWN BY MME
REVIEWED BY KDA
ISSUE DATE 02/20/2026
GEC FILE NO. 01-25000-677
SHEET NO.

C7.0

INSTALLATION:
PLACE 4" OF BEDDING MATERIAL BENEATH PIPE. PLACE BEDDING MATERIAL AROUND THE PIPE TO THE SPRING LINE. WORK THE MATERIAL IN AND AROUND THE PIPE BY HAND TO PROVIDE UNIFORM SUPPORT. PLACE COVER MATERIAL CAREFULLY TO A LEVEL 6" ABOVE THE PIPE.



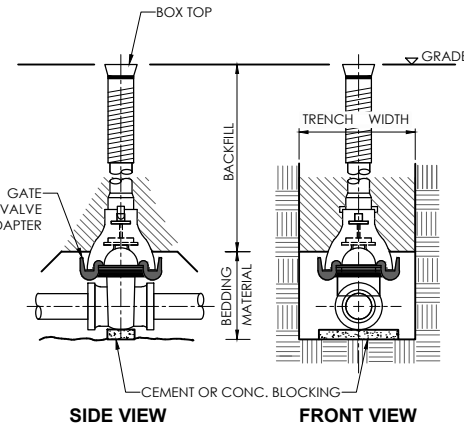
BEDDING AND COVER:
CLASS IA - CLEAN, ANGULAR CRUSHED STONE, CRUSHED ROCK, OR CRUSHED GRAVEL CONFORMING TO THE FOLLOWING GRADATION:

SIEVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90-100
3/8"	20-55
NO. 4	0-10
NO. 8	0-5

CLASS IB - CLEAN, ANGULAR CRUSHED STONE, CRUSHED ROCK, OR CRUSHED GRAVEL CONFORMING TO THE FOLLOWING GRADATION:

SIEVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/8"	85-100
NO. 4	10-30
NO. 200	0-5

CLASS II - CLEAN COARSE-GRAINED SOILS CLASSIFIED IN ASTM D2487 AS GW, GP, SW, SP.
CLASS III - COARSE-GRAINED SOILS WITH FINES CLASSIFIED IN ASTM D2487 AS GM, GC, SM, SC.



PIPE BEDDING AND TRENCH

STANDARD GATE VALVE BOX SETTING

WATER MAIN DETAILS

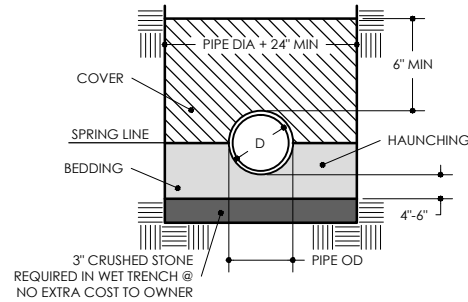
BEDDING AND COVER MATERIAL:
CLASS IA: CRUSHED STONE OR GRAVEL CONFORMING TO FOLLOWING GRADATION:

SIEVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90-100
3/8"	20-55
NO. 4	0-10
NO. 8	0-5

CLASS IB: CRUSHED STONE OR GRAVEL CONFORMING TO FOLLOWING GRADATION:

SIEVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/8"	85-100
NO. 4	10-30
NO. 8	0-5

CLASS II: SAND, GRAVELS, AND SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES. SOIL TYPES GW, GP, SW, AND SP.
CLASS III: SILTY OR CLAYEY SANDS, GRAVELS, AND SAND-GRAVEL MIXTURES WITH FINES. SOIL TYPES GM, GC, SM, AND SC.

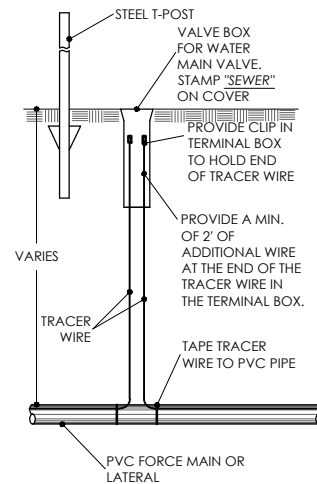


3" CRUSHED STONE REQUIRED IN WET TRENCH @ NO EXTRA COST TO OWNER

INSTALLATION:
PLACE AND COMPACT BEDDING AND COVER IN MAXIMUM 6" LAYERS. WORK MATERIAL IN AND AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT. COMPACT CLASS IB WITH HAND TAMPER OR VIBRATORY COMPACTOR TO 85% STANDARD PROCTOR, COMPACT CLASS II WITH VIBRATORY COMPACTOR TO 85% STANDARD PROCTOR, COMPACT CLASS III WITH VIBRATORY COMPACTOR TO 90% STANDARD PROCTOR.

FLEXIBLE (PVC) PIPE

PIPE BEDDING AND TRENCH



TRACER WIRE TERMINAL BOX

SANITARY SEWER DETAILS

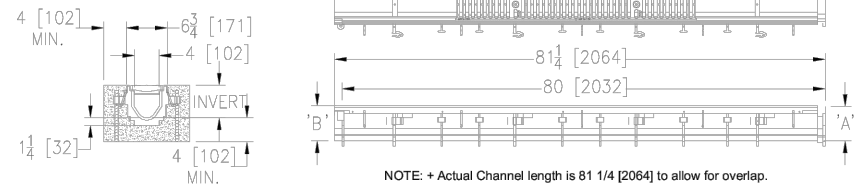


Z886-HD
6-3/4 [171] WIDE REVEAL TRENCH DRAIN SYSTEM
WITH HEAVY-DUTY FRAME ASSEMBLY

SPECIFICATION SHEET
TAG _____

Design and Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice

SPECIFYING ENGINEER IS RESPONSIBLE FOR
CONCRETE ENCASEMENT AND REINFORCING
BASED UPON APPLICATION AND LOCAL CODES



ENGINEERING SPECIFICATION: Zurn Z886-HD

Channels are 80" [2032 mm] long, 6-3/4" [171 mm] wide reveal and have a 4" [102 mm] throat. Modular channel sections are made of 0% water absorbent High Density Polyethylene (HDPE). Channels have a positive mechanical connection between channel sections that will not separate during the installation and mechanically lock into the concrete surround every 10" [254 mm]. Channels weigh less than 2.31 lbs. [1.05kg] per linear foot, have a smooth, 1-1/2" [38 mm] radiused self cleaning bottom with a Manning's coefficient of .009 and .75% or neutral 0% built in slope. Channels have rebar clips standard to secure trench in its final location. Channels provided with standard DGC grates that lock down to frame. Zurn 5.375" [137 mm] wide reveal Ductile Iron Slotted Grate conforming to ASTM specification A536-84, Grade 80-55-06. Ductile Iron grate is rated class C per the DIN EN1433 top load classifications. Supplied in 20" [508 mm] nominal lengths with 1/2" [13 mm] wide slots, and 3/4" [19 mm] bearing depth. Grate has an open area of 28.1 sq. in per ft. [59,463 sq. mm per meter]. The .105" [2.67 mm] thick Heavy-Duty Carbon Steel Frame Assembly conforms to ASTM specification A36 with 10 - 4" [102 mm] long concrete anchors per 80" [2032 mm]. Grate lockdown bars are to be integral to the frame. Frame supplied with powder coated finish. All welds must be performed by a certified welder per ASTM standard AWS D1.1. Frames produced in the U.S.A.

PREFIX OPTIONS (Check/specify appropriate options)

___ Z Six-foot, Eight-inch High Density Polyethylene (HDPE)*

SUFFIX OPTIONS (Check/specify appropriate options)

Outlet Adapters Add/Each

- ___ E1 Closed End Cap
- ___ E2 2 [51] No-Hub End Outlet
- ___ E3 3 [76] No-Hub End Outlet
- ___ E4 4 [102] No Hub End Outlet
- ___ E6 6 [152] No-Hub End Outlet
- ___ U2 2 [51] No-Hub Bottom Outlet
- ___ U3 3 [76] No-Hub Bottom Outlet
- ___ U4 4 [102] No-Hub Bottom Outlet
- ___ U6 6 [152] No-Hub Bottom Outlet

Frame Options

- ___ CBF Black Acid Resistant Coated Top Frame
- ___ LD Light Duty Grates on Heavy Duty Frame
- ___ SW Sidewall Extension - 9 [229] High
- ___ SW2 Sidewall Extension - 18 [457] High

Grate Options (Load Classifications are per DIN EN1433)

- ___ BDC Black Acid Resistant Epoxy Coated Ductile Grate - Class C
- ___ BDE Black Acid Resistant Epoxy Coated Ductile Grate - Class E
- ___ BG Galvanized Ductile Iron Bar Grate - Class C
- ___ DBG Ductile Iron Cast Bar Grate - Class C
- ___ DC Ductile Iron Solid Cover - Class C
- ___ DGC Ductile Iron Slotted Grate - Class C*
- ___ DGE Ductile Iron Slotted Grate - Class E
- ___ GDC Galvanized Ductile Iron Slotted Grate - Class C
- ___ GDE Galvanized Ductile Iron Slotted Grate - Class E
- ___ GHPDE Galvanized Heel-Proof Ductile Grate - Class E
- ___ HPDE Heel-Proof Ductile Slotted Grate - Class E
- ___ RFGC Reinforced Slotted Galvanized Grate - Class C
- ___ RFSC Reinforced Slotted Stainless Steel Grate - Class C
- ___ RPGC Reinforced Perforated Galvanized Grate - Class C
- ___ RPGRC Reinforced Galvanized Perforated Reverse Punch Anti-Slip Grate - Class C
- ___ RPSC Reinforced Perforated Stainless Steel Grate - Class C
- ___ RPSRC Reinforced Perforated Stainless Steel Reverse Punch Grate - Class C

Miscellaneous Options

- ___ DB Bottom Dome Strainer
- ___ JC Joint Connector
- ___ VP Vandal-Proof Lockdown

* Regularly furnished unless otherwise specified

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

ADVERTENCIA: Cáncer y daño reproductivo - www.P65Warnings.ca.gov

AVERTISSEMENT: Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

Zurn Industries, LLC | Specification Drainage Operation
1801 Pittsburgh Avenue, Erie, PA 16502, Ph. 855.663.9876

In Canada | Zurn Industries Limited
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, Ph. 877.892.5216

www.zurn.com

Decorative Grate Options (Load Classifications are per DIN EN1433)

- ___ DTW Decorative Tidal Wave Grate - Class C
- ___ SBG Stainless Steel Bar Grate - Class E

MADE in the U.S.A. (Load Classifications are per DIN EN 1433)

- ___ BDE-USA Black Acid Resistant Epoxy Coated Ductile Grate - Class E
- ___ DGC-USA Ductile Iron Slotted Grate-Class C
- ___ DGE-USA Ductile Iron Slotted Grate-Class E
- ___ GDC-USA Galvanized Ductile Slotted Grate - Class C
- ___ GDE-USA Galvanized Ductile Slotted Grate - Class E
- ___ GHPDE-USA Galvanized Heel-Proof Ductile Grate - Class E
- ___ HPDE-USA Heel-Proof Ductile Slotted Grate - Class E
- ___ PPC Plastic Perforated Grate - Class B

Trench No.	Flow		Flow		
	'A' Shallow Inv.	'B' Deep Inv.	(cfs)	(gpm)	(lps)
8601	3.50 [89]	4.10 [104]	0.21	93	6
8602	4.10 [104]	4.70 [119]	0.27	122	8
8603	4.70 [119]	5.30 [135]	0.34	152	10
8603N	5.30 [135]	5.90 [150]	-	-	-
8604	5.30 [135]	5.90 [150]	0.41	183	12
8605	5.90 [150]	6.50 [165]	0.48	214	13
8606	6.50 [165]	7.10 [180]	0.55	245	15
8606N	7.10 [180]	7.10 [180]	-	-	-
8607	7.10 [180]	7.70 [196]	0.62	276	17
8608	7.70 [196]	8.30 [211]	0.69	308	19
8609	8.30 [211]	8.90 [226]	0.76	339	21
8610	8.90 [226]	9.50 [241]	0.83	371	23
8611	9.50 [241]	10.10 [257]	0.90	403	25
8612	10.10 [257]	10.70 [272]	0.97	435	27
8612N	10.70 [272]	10.70 [272]	-	-	-
8613	10.70 [272]	11.30 [287]	1.04	467	29
8614	11.30 [287]	11.90 [302]	1.11	498	31
8615	11.90 [302]	12.50 [318]	1.18	530	33

INSTALLATION NOTES:

TYPE D

- DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
- THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

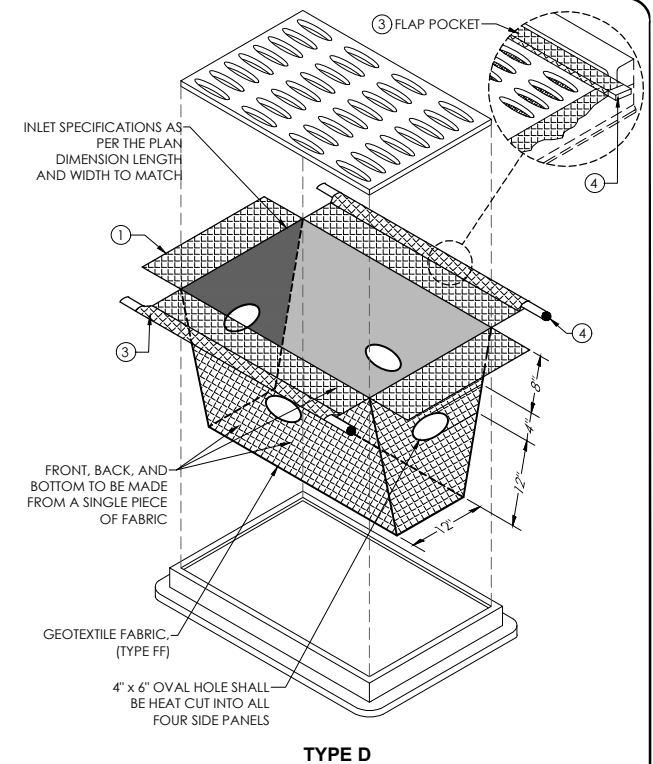
GENERAL NOTES:

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON WIS DOT PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

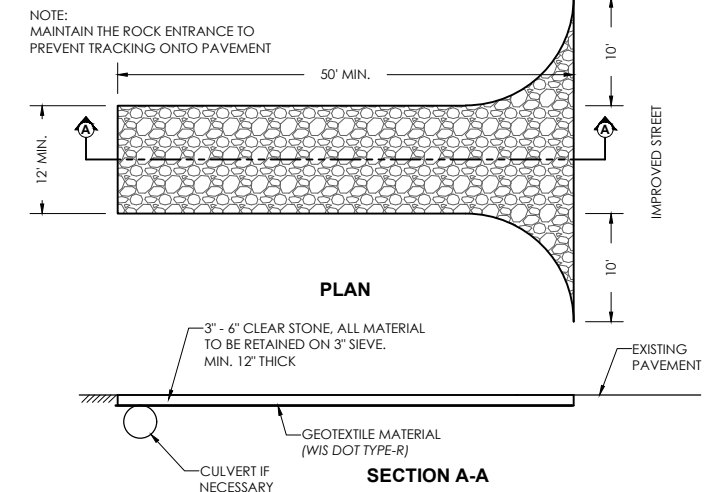
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKET SHALL BE LARGE ENOUGH TO ACCEPT A WOOD 2" x 4".
- ④ USE REBAR OR STEEL ROD FOR REMOVAL OR FOR INLETS WITH CURB CASTING; USE A WOOD 2"x4" EXTENDED 10" BEYOND SIDES OF GRATE. CONNECT 2"x4" TO GRATE WITH WIRE OR PLASTIC TIES.

NOTES



INLET PROTECTION



ROCK CONSTRUCTION ENTRANCE



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CONSTRUCTION DETAILS
TOMMY'S CAR WASH
LSRE WATERTOWN LLC

CITY OF WATERTOWN
JEFFERSON COUNTY, WI

REVISIONS	NO.	BY	DATE

AS NOTED
SCALE

DRAWN BY	MME
REVIEWED BY	KDA
ISSUE DATE	02/20/2026
GEC FILE NO.	01-25000-677
SHEET NO.	

C7.2



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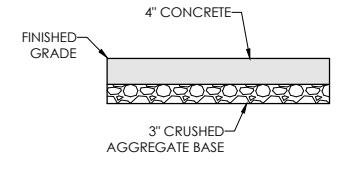
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CONSTRUCTION DETAILS
 TOMMY'S CAR WASH
 LSRE WATERTOWN LLC

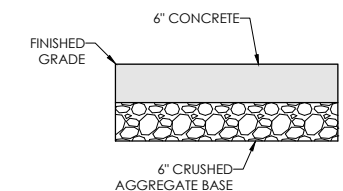
CITY OF WATERTOWN
 JEFFERSON COUNTY, WI

REVISIONS	NO.	BY	DATE

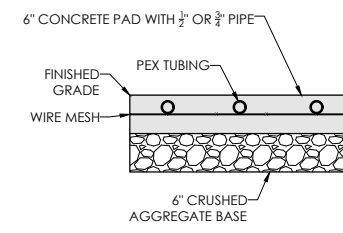
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TYPE - A



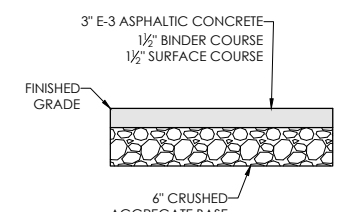
TYPE - B



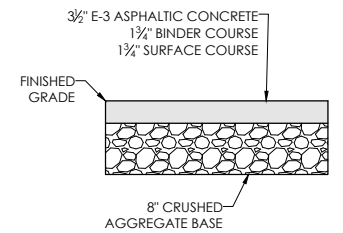
TYPE - C

TYPE C NOTES:
 1. CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR SNOW MELT CONCRETE INSTALLATION. PROVIDE WIRE MESH OR REINFORCEMENT AS REQUIRED AND SUPPORT AND SECURE PEX TUBING TO THE MESH TO MAINTAIN PROPER LOCATION WITHIN THE CONCRETE SLAB DURING PLACEMENT. FINAL LOCATION OF PEX TUBING AND REINFORCEMENT SHALL BE COORDINATED BY CONTRACTOR AND INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND PROJECT REQUIREMENTS.

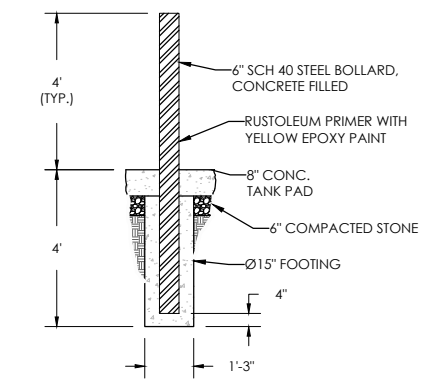
TYPICAL CONCRETE PAVING DETAIL



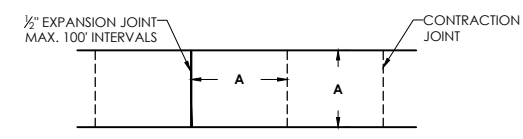
TYPE - 1



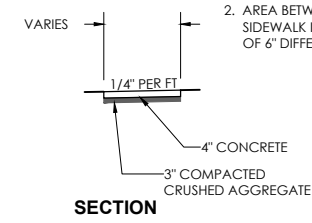
TYPE - 2



TYPICAL BOLLARD DETAIL

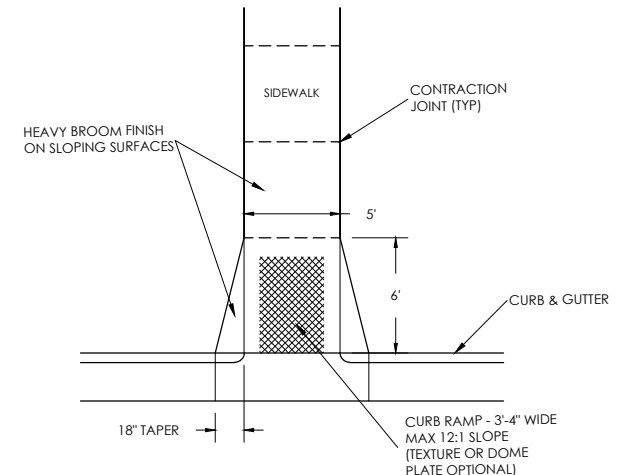


PLAN
 NOTES:
 1. A = 4' OR 5' TYPICALLY (SEE PLANS FOR PROPOSED WIDTH)
 2. AREA BETWEEN CURB AND SIDEWALK IS TO HAVE A MINIMUM OF 6" DIFFERENCE IN ELEVATION.

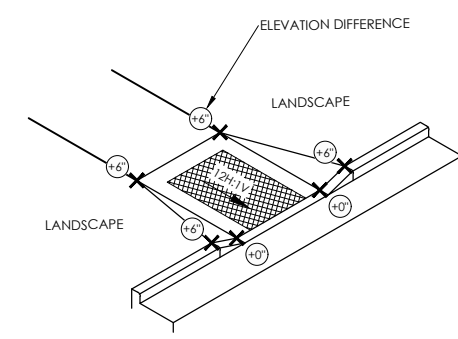


SECTION

TYPICAL SIDEWALK DETAIL



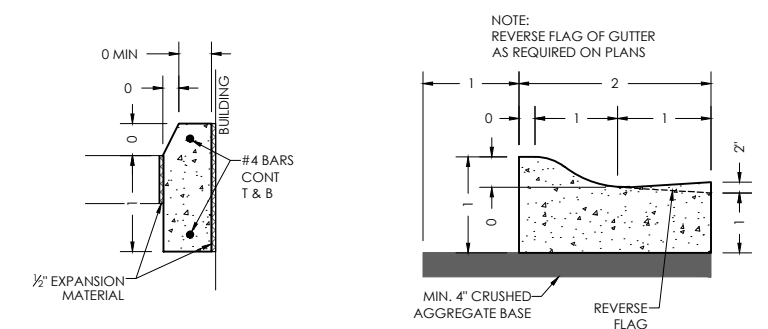
PLAN



ISOMETRIC

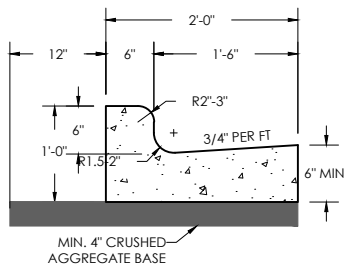
NOTES:
 1. RAMP SLOPES SHALL NOT BE STEEPER THAN 12H:1V.
 2. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

TYPICAL SIDEWALK ADA RAMP DETAIL

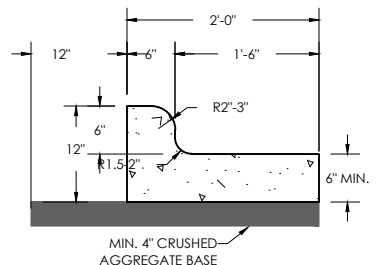


TOMMY'S CHAMFERED CURB 6"

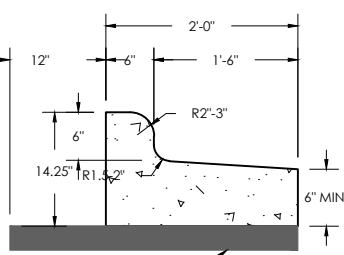
TOMMY'S ROLL CURB 24"



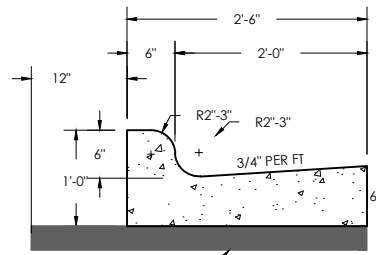
STANDARD 24"



FLAT 24"

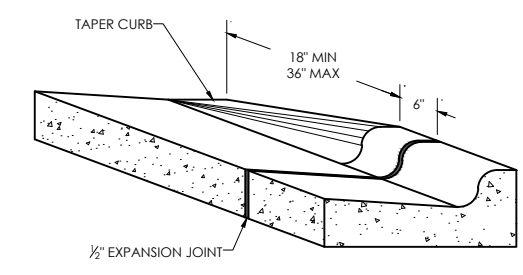


REVERSE FLAG 24"

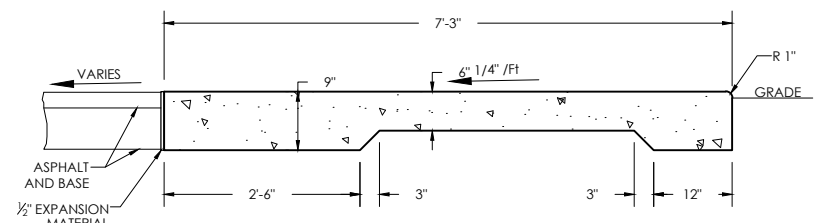


STANDARD 30"

TYPICAL CURB DETAILS



TYPICAL CURB TERMINI DETAIL



TOMMY'S EXPRESS STANDARD SECTION

TYPICAL THICKENED EDGE SIDEWALK DETAIL

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CONSTRUCTION DETAILS
 TOMMY'S CAR WASH
 LSRE WATERTOWN LLC

CITY OF WATERTOWN
 JEFFERSON COUNTY, WI

REVISIONS	NO.	BY	DATE

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C7.4

WEHD1000 GREASE INTERCEPTOR TANK SPECIFICATIONS

DIMENSIONS:
 WALL: 3 1/2"
 BOTTOM: 5"
 COVER: 6"
 MANHOLE: 24" I.D. PRECAST CONCRETE RISER
 HEIGHT: 72 1/2" O.D.
 OUTSIDE DIMAETER: 7'-2 1/2"
 BELOW INLET: 54 5/8" O.D.
 LIQUID LEVEL: 46 5/8"
 WEIGHT: TANK 7,000 LBS.
 WEIGHT: COVER 3,000 LBS.

INLET AND OUTLET:
 4" CAST-A-SEAL BOOT OR EQUAL GASKET

INLET AND OUTLET BAFFLES:
 AS SHOWN

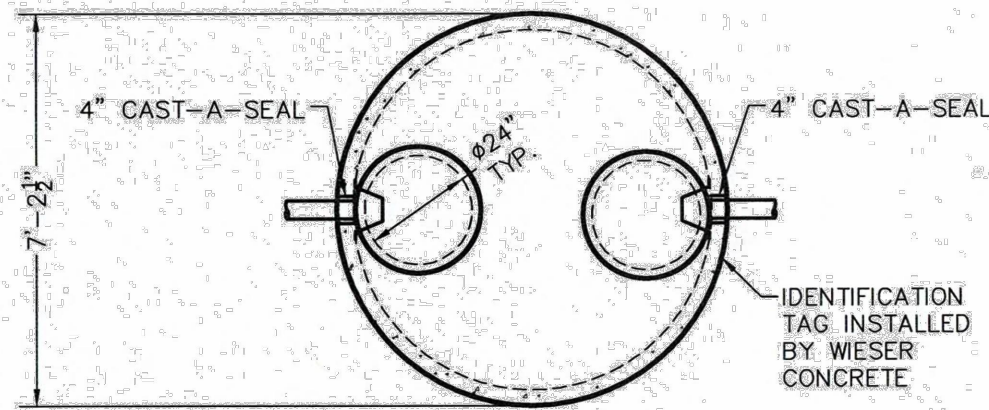
LIQUID CAPACITY: 21.50 GAL/IN

LOADING DESIGN: 12'-0" UNSATURATED SOIL / HS-20

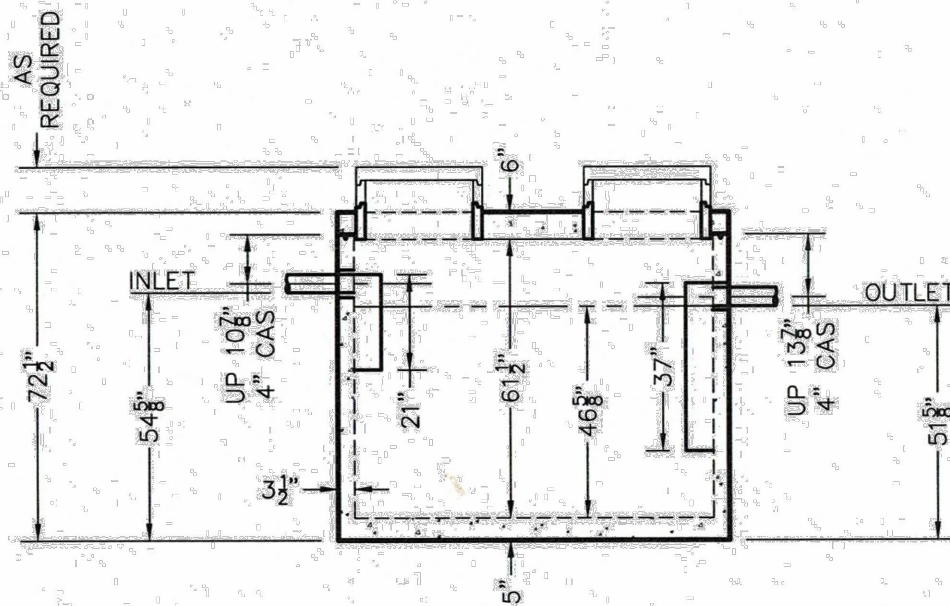
TANK CAN BE USED AS:
 EXTRA HEAVY DUTY GREASE INTERCEPTOR

COVER: MIX DESIGN #8 (NO FIBER)
TANK: MIX DESIGN #8 (NO FIBER)

CUSTOMIZED TANKS:
 FOR CUSTOM TANKS CONTACT WIESER CONCRETE



TOP VIEW



TYPICAL SAND/OIL SEPARATOR DETAIL



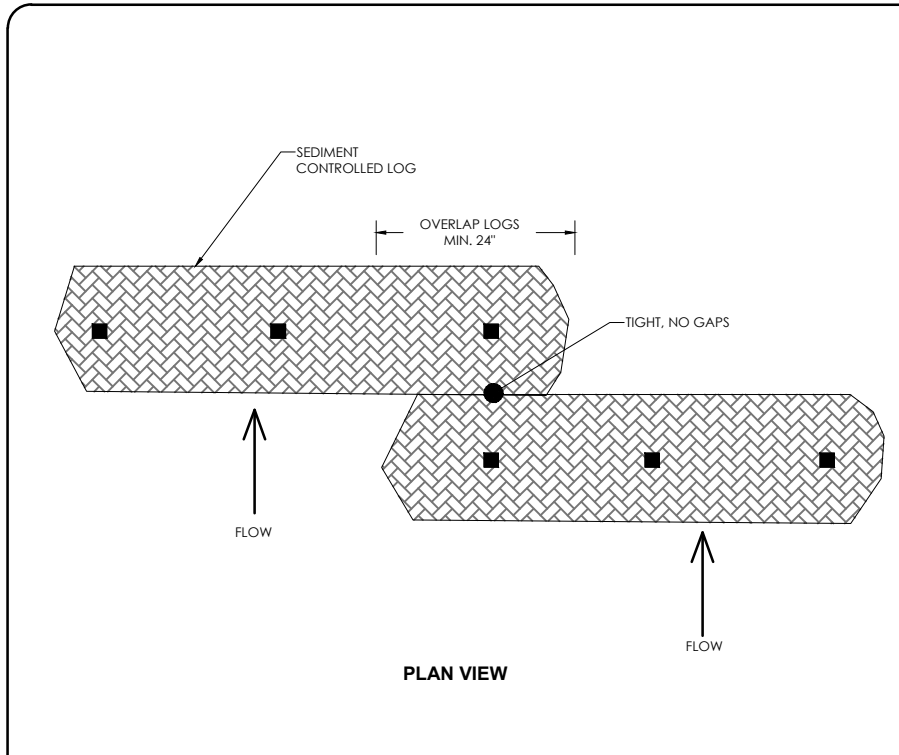
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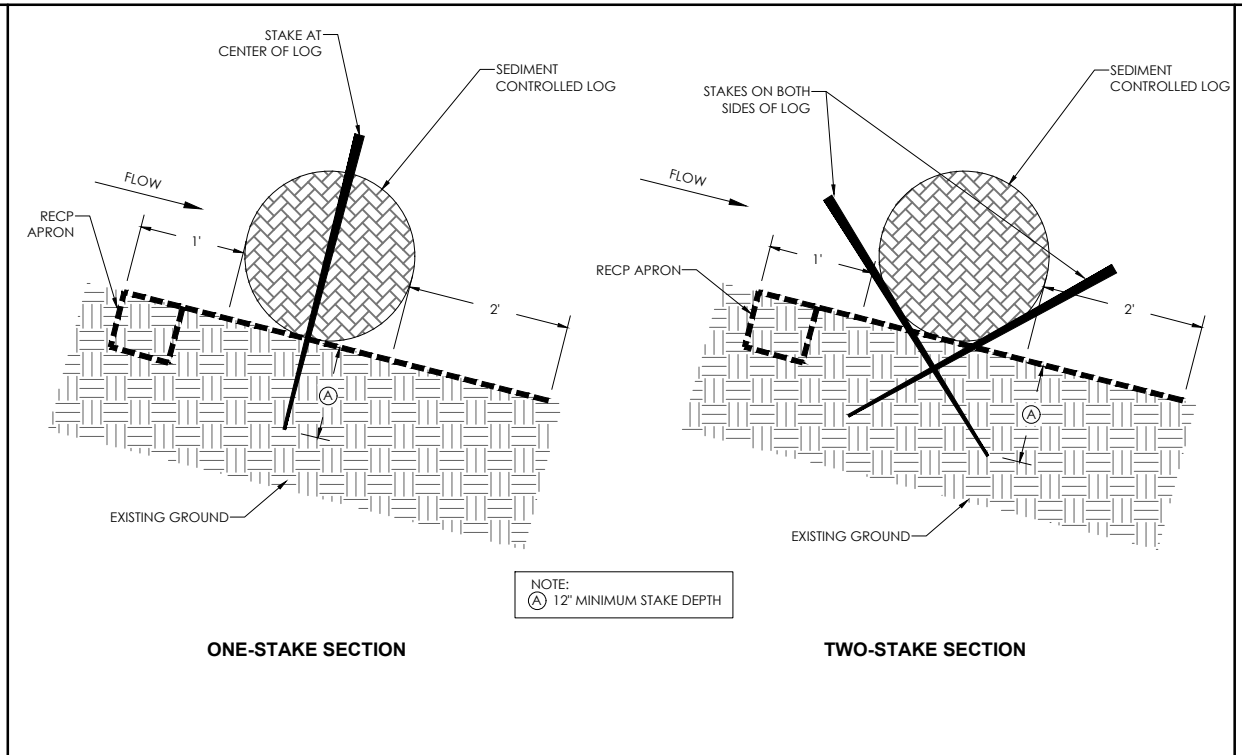
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LOG OVERLAP DETAIL



SLOPE/CHANNEL INSTALLATION (FIG. A)

TEMPORARY DITCH CHECKS

PURPOSE & OPERATION

PRODUCTS IN THIS CATEGORY ARE INTENDED FOR USE AT THE BOTTOM OF FILL SLOPES AND IN CHANNELS TO INTERCEPT AND POND SEDIMENT-LADEN RUNOFF. PONDING THE WATER REDUCES THE VELOCITY OF THE INCOMING FLOW AND ALLOWS MOST OF THE SEDIMENTS TO SETTLE OUT. WATER EXITS THE CHECK BY EITHER FILTERING THROUGH OR FLOWING OVER THE TOP.

CONSTRUCTION METHODS

THIS WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR HIGHWAY AND STRUCTURE CONSTRUCTION, AND THE STANDARD DETAIL DRAWING IN THE WISDOT FACILITY DEVELOPMENT MANUAL. IN ADDITION TO THE ABOVE, TEMPORARY DITCH CHECKS SHALL BE PLACED PERPENDICULAR TO THE FLOW LINE OF THE DITCH AND SHALL EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECKS ARE HIGHER THAN THE LOW POINT ON THE CREST OF THE CHECK. THE INSTALLED MATERIAL SHALL HAVE A MINIMUM HEIGHT OF 10 INCHES ABOVE THE FLOW LINE IN THE INSTALLED CONDITION. ALL PRODUCTS SHALL BE ENTRENCHED A MINIMUM OF 2.0 INCHES ON BARE SOIL. DITCH CHECKS INSTALLED IN A CHANNEL THAT IS CONTINUOUSLY LINED WITH EROSION MAT NEED NOT BE ENTRENCHED IF INSTALLED OVER THE TOP OF THE EROSION MAT. INSTALLATIONS SHALL HAVE STAKES ON THE DOWNSTREAM SIDE OF THE TEMPORARY DITCH CHECK AND SHALL NOT REDUCE THE HEIGHT OF THE TEMPORARY DITCH CHECK. FABRIC TYPE PRODUCTS MAY BE ENTRENCHED WITH A NARROW CHECK SLOT ON THE UPSTREAM SIDE.

APPROVED MANUFACTURED ALTERNATIVES TO THE DEPARTMENT'S DETAILS ARE LISTED BELOW.

APPROVED TEMPORARY DITCH CHECKS

PRODUCT	MANUFACTURER
CURLEX 12 INCH SEDIMENT LOG	AMERICAN EXCELSIOR
CURLEX 20 INCH SEDIMENT LOG	AMERICAN EXCELSIOR
AEC PREMIER 12 INCH WATTLE	AMERICAN EXCELSIOR
AEC PREMIER 20 INCH WATTLE	AMERICAN EXCELSIOR
STENLOG 12	Erosion Control Blanket.com
TRIANGULAR SILT DIKE	TRIANGULAR SILT DIKE
ASPEN XCEL EXCELSIOR LOG	WESTERN EXCELSIOR
DITCH CHEXX	FILTREXX
BIO-D SILT CHECK	RO LANKA
WS-12	NORTH AMERICAN GREEN

INSTALLATION INSTRUCTIONS - LOGS AND WATTLES:

STEP 1 - SITE PREPARATION

PREPARE SITE TO DESIGN PROFILE AND GRADE. REMOVE DEBRIS, ROCKS, CLODS, ETC. GROUND SURFACE SHOULD BE SMOOTH PRIOR TO INSTALLATION TO ENSURE LOG REMAINS IN CONTACT WITH SLOPE.

STEP 2 - STAPLE SELECTION

AT A MINIMUM, 1" LONG BY 1" BY 24", STAKES ARE TO BE USED TO SECURE THE LOG TO THE GROUND SURFACE. INSTALLATION IN ROCKY, SANDY OR OTHER LOOSE SOIL MAY REQUIRE LONGER STAKES.

SLOPE INSTALLATION

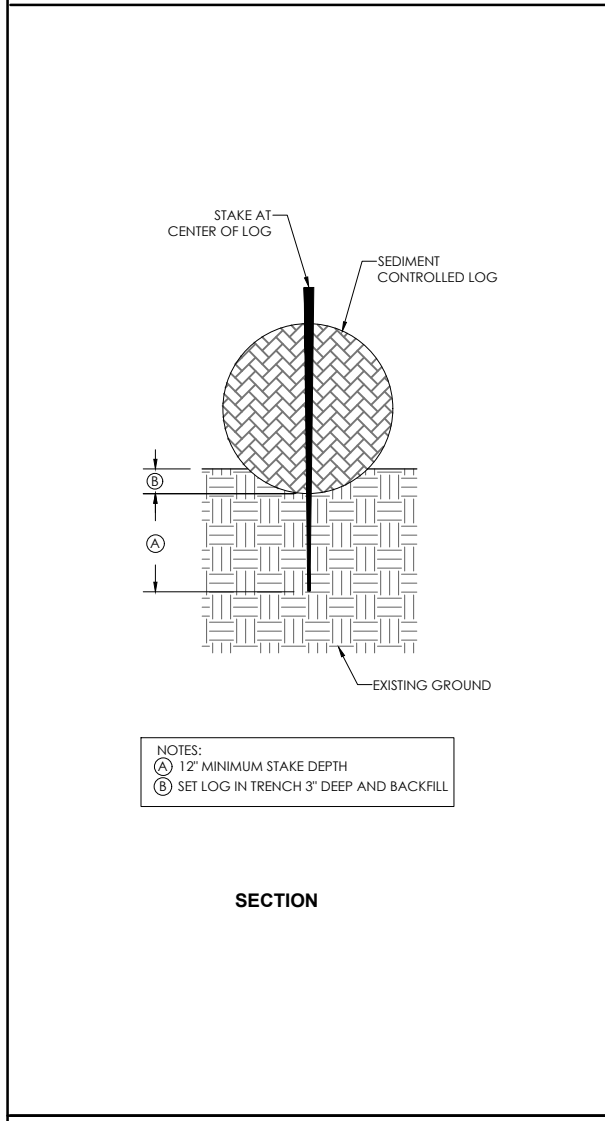
PLACE RECIP ALONG SLOPE TO PROVIDE UPSTREAM APRON FOR LOG. SECURE RECIP ACCORDING TO STANDARD SLOPE INSTALLATION INSTRUCTIONS INCLUDING UPSTREAM ANCHOR TRENCH. SECURE LOG TO BLANKET, ENSURING LOG REMAINS IN INTIMATE CONTACT WITH THE RECIP OVER THE LENGTH OF THE INSTALLATION. A MINIMUM ONE FOOT UPSTREAM APRON AND TWO FOOT DOWNSTREAM APRON ARE REQUIRED FOR INSTALLATION. SUBSEQUENT, DOWNSLOPE ROWS OF LOGS SHOULD BE SPACED APPROPRIATELY FOR SITE CONDITIONS TO MINIMIZE ACCELERATION OF FLOW. FURTHER, LOG SEAMS ARE TO BE OFFSET TO ENSURE CONTINUOUS FILTRATION. FIGURE A PRESENTS A SCHEMATIC OF A SLOPE INSTALLATION IN PROFILE VIEW.

CHANNEL INSTALLATION

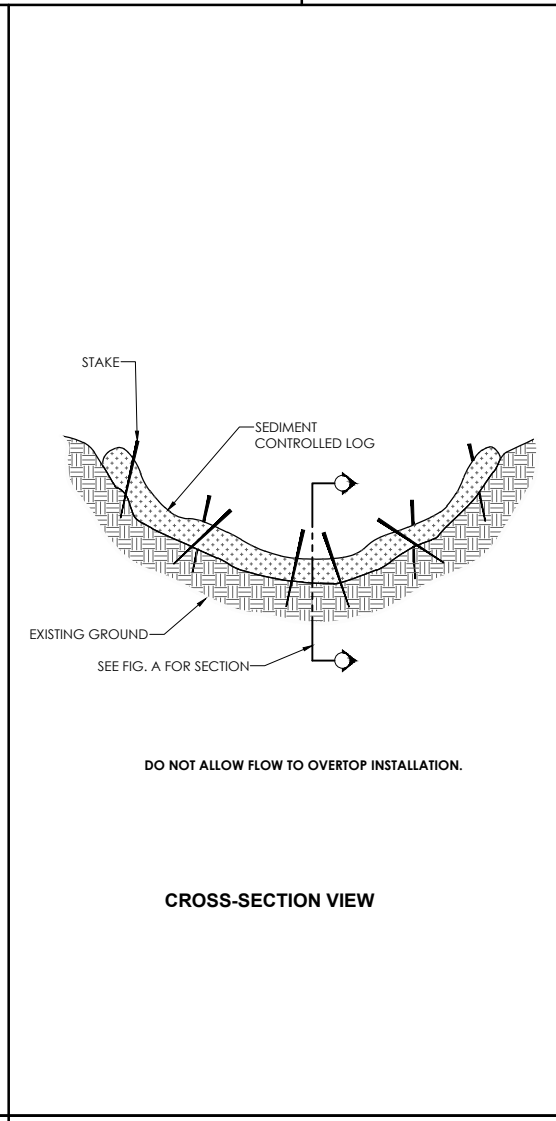
PLACE RECIP ALONG CHANNEL TO PROVIDE UPSTREAM AND DOWNSTREAM APRON FOR LOG IDENTICALLY TO SLOPE INSTALLATION. SECURE LOG TO BLANKET, ENSURING LOG REMAINS IN INTIMATE CONTACT WITH THE RECIP OVER THE LENGTH OF THE INSTALLATION. A MINIMUM OF ONE FOOT UPSTREAM APRON AND TWO FOOT DOWNSTREAM APRON ARE REQUIRED FOR INSTALLATION. SUBSEQUENT, DOWNSLOPE ROWS OF LOGS SHOULD BE SPACED APPROPRIATELY FOR SITE CONDITIONS TO MINIMIZE ACCELERATION OF FLOW. FURTHER, LOG SEAMS ARE TO BE OFFSET TO ENSURE CONTINUOUS FILTRATION. FIGURE A AND FIGURE C PRESENT A SCHEMATIC OF A CHANNEL INSTALLATION.

DRAIN FILTER INSTALLATION

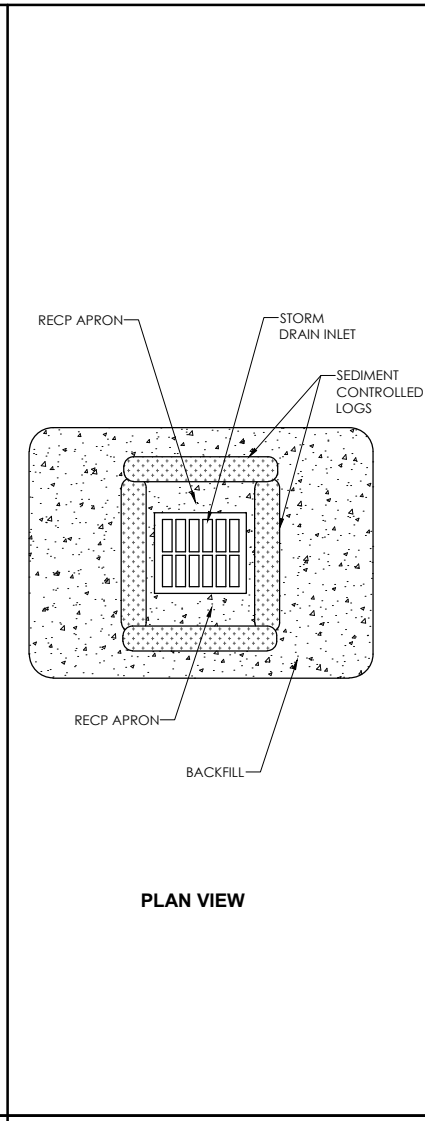
SURROUND DRAIN INLET TO BE PROTECTED WITH LOG, ENSURING SEAMS ARE OVERLAPPING TO MINIMIZE FLOW CIRCUMVENTING LOG. SECURE LOGS TO GROUND SURFACE ENSURING THE LOG REMAINS IN INTIMATE CONTACT WITH THE GROUND SURFACE OVER THE ENTIRE INSTALLATION. PROVIDE RECIP APRON SECURED TO THE GROUND SURFACE BETWEEN DRAIN AND LOG.



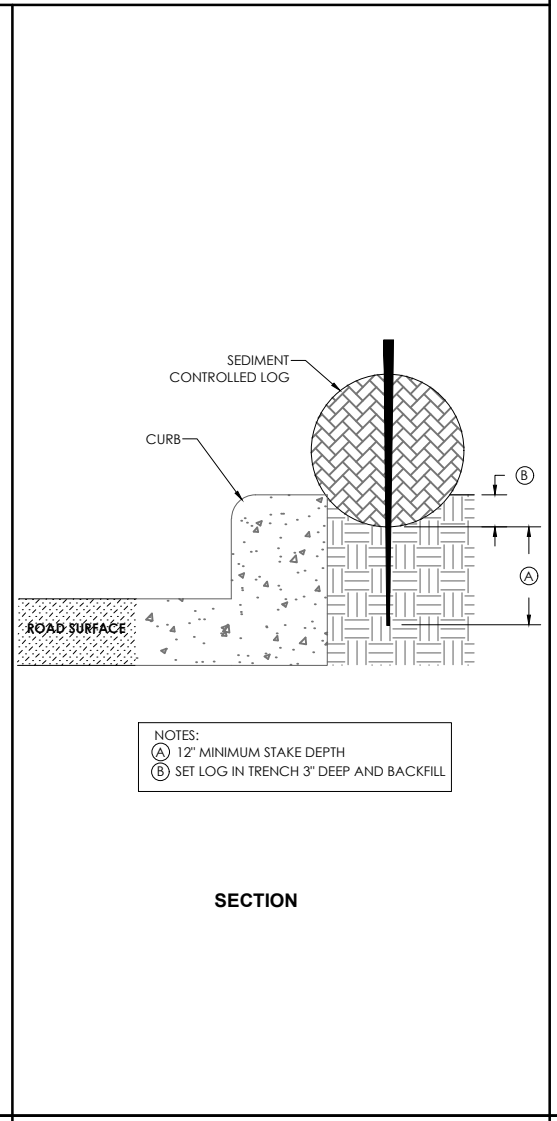
FLAT GROUND INSTALLATION (FIG. B)



CHANNEL INSTALLATION (FIG. C)



DRAIN FILTER (FIG. D)



CURBSIDE INSTALLATION (FIG. E)

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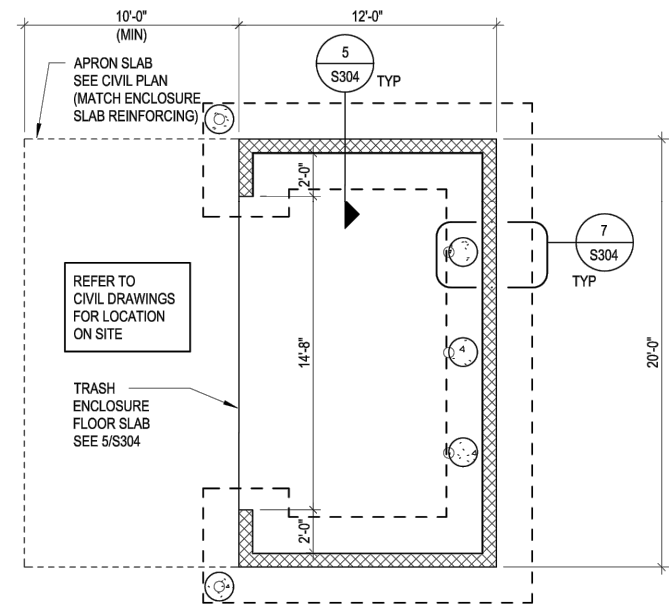
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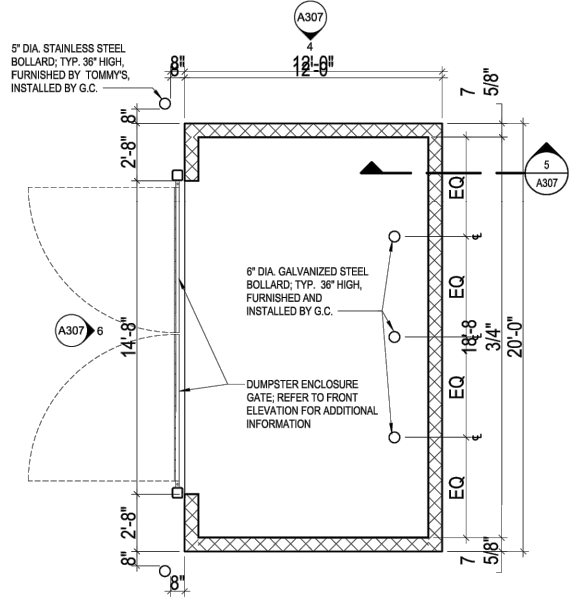
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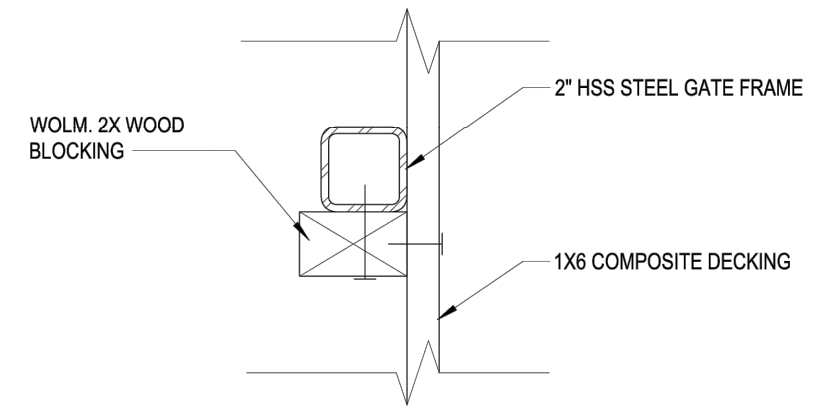
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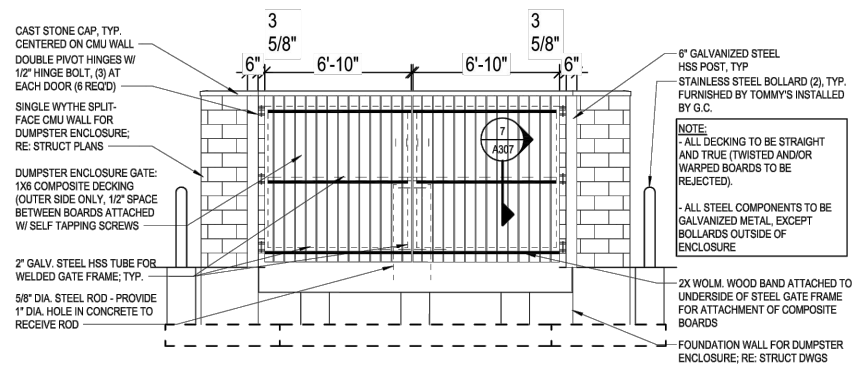
1 DUMPSTER ENCLOSURE PLAN
 A301 1/4" = 1'-0"



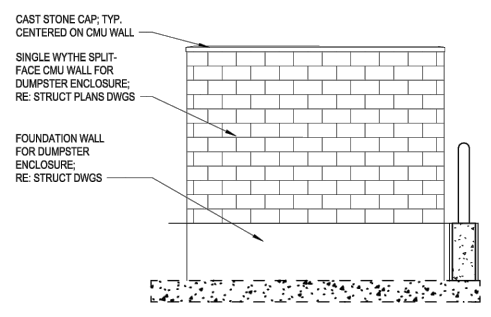
2 DUMPSTER ENCLOSURE PLAN
 A307 1/4" = 1'-0"



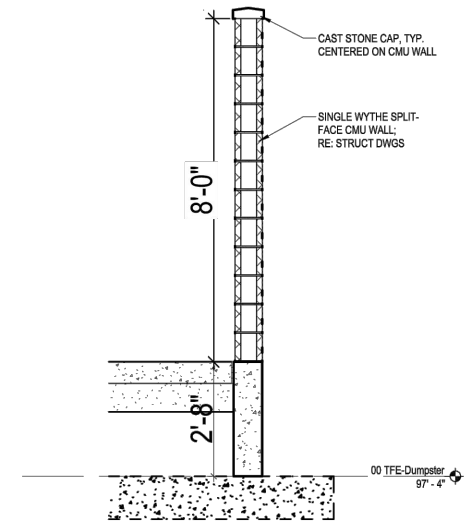
3 SECTION AT DUMPSTER FRAME
 A307 6" = 1'-0"



4 DUMPSTER ENCLOSURE - FRONT ELEVATION
 A307 1/4" = 1'-0"



5 DUMPSTER ENCLOSURE - SIDE ELEVATION
 A307 1/4" = 1'-0"



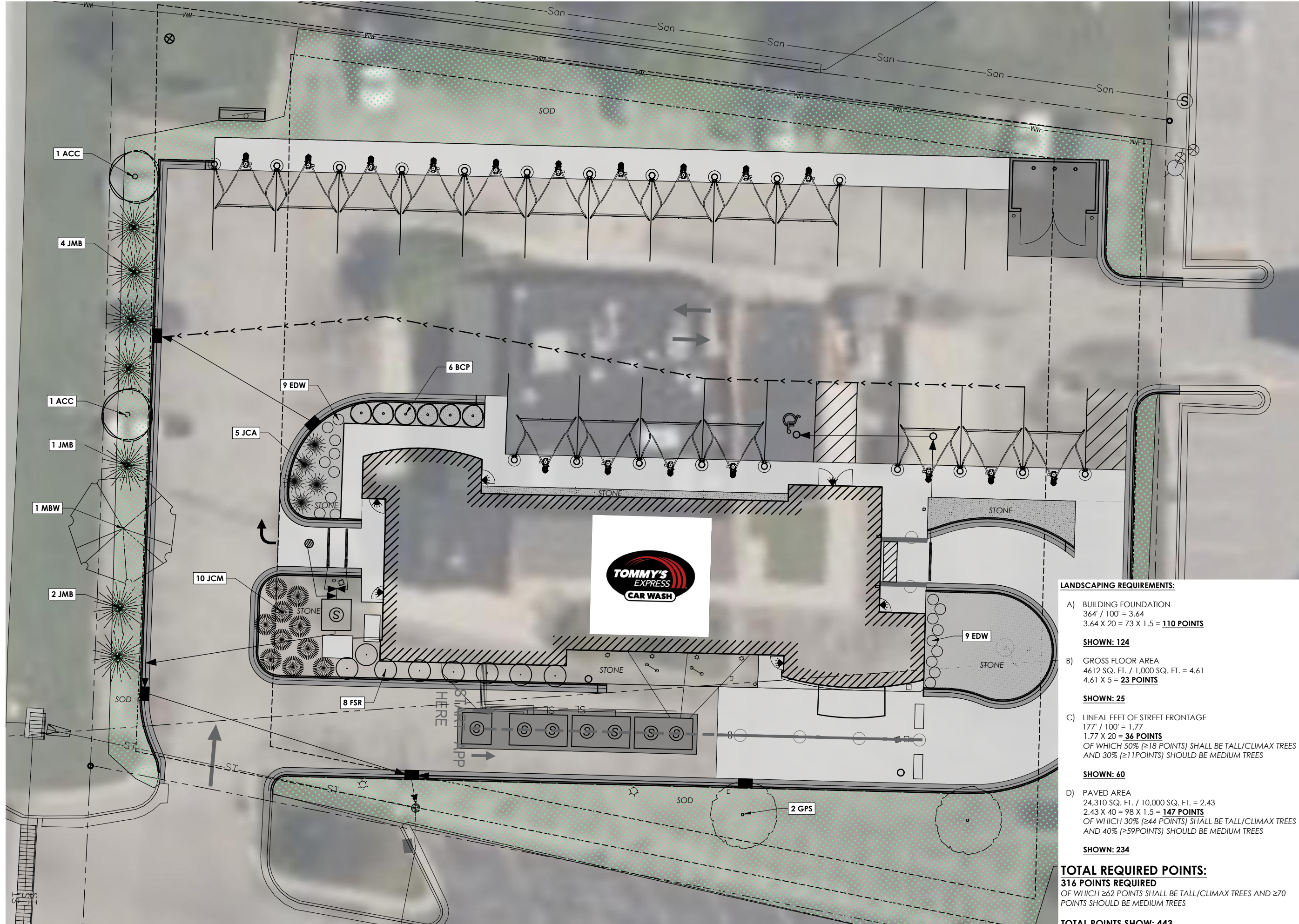
6 DUMPSTER ENCLOSURE - WALL SECTION
 A307 1/2" = 1'-0"

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LANDSCAPE PLAN
TOMMY'S CAR WASH
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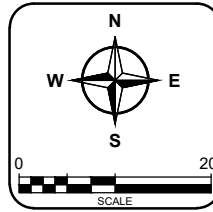


- LANDSCAPING REQUIREMENTS:**
- A) BUILDING FOUNDATION
 $364' / 100' = 3.64$
 $3.64 \times 20 = 73 \times 1.5 = 110 \text{ POINTS}$
SHOWN: 124
 - B) GROSS FLOOR AREA
 $4612 \text{ SQ. FT.} / 1,000 \text{ SQ. FT.} = 4.61$
 $4.61 \times 5 = 23 \text{ POINTS}$
SHOWN: 25
 - C) LINEAL FEET OF STREET FRONTAGE
 $177' / 100' = 1.77$
 $1.77 \times 20 = 36 \text{ POINTS}$
 OF WHICH 50% ($\approx 18 \text{ POINTS}$) SHALL BE TALL/CLIMAX TREES
 AND 30% ($\approx 11 \text{ POINTS}$) SHOULD BE MEDIUM TREES
SHOWN: 60
 - D) PAVED AREA
 $24,310 \text{ SQ. FT.} / 10,000 \text{ SQ. FT.} = 2.43$
 $2.43 \times 40 = 98 \times 1.5 = 147 \text{ POINTS}$
 OF WHICH 30% ($\approx 44 \text{ POINTS}$) SHALL BE TALL/CLIMAX TREES
 AND 40% ($\approx 59 \text{ POINTS}$) SHOULD BE MEDIUM TREES
SHOWN: 234

TOTAL REQUIRED POINTS:
316 POINTS REQUIRED
 OF WHICH ≥ 62 POINTS SHALL BE TALL/CLIMAX TREES AND ≥ 70 POINTS SHOULD BE MEDIUM TREES

TOTAL POINTS SHOW: 443

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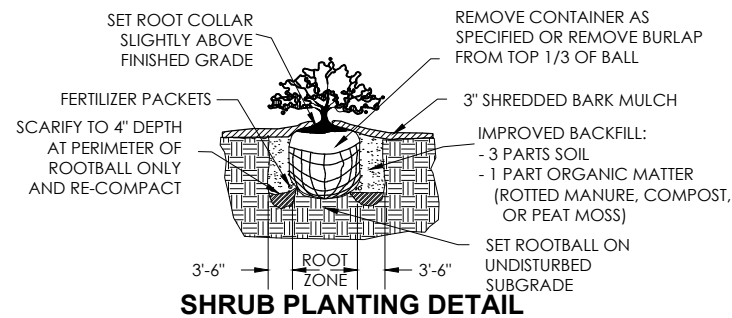
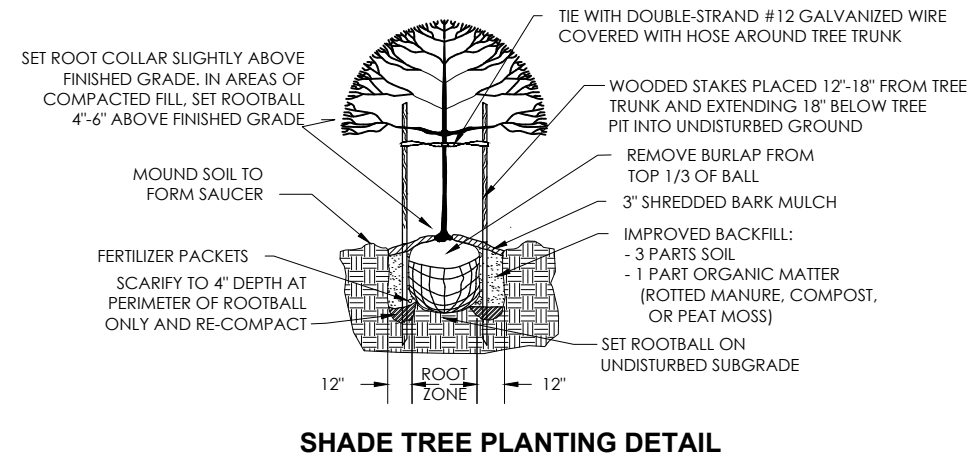
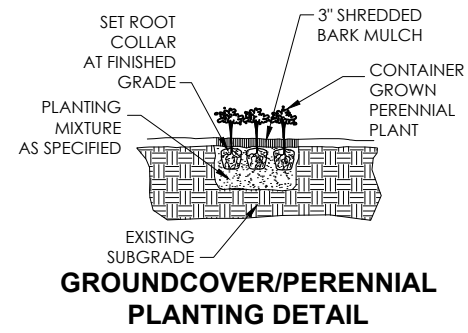
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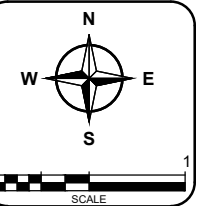


PLANT LIST

KEY	COMMON NAME	(BOTANICAL NAME)	PLANTING SIZE (Inches)	COMMENTS
SHRUBS				
BCP	'CRIMSON JAPANESE BARBERRY (CRIMSON PYGMY)		18-24	3'-4' O/C (3'-6' HT)
EDW	DWARF WINGED EUONYMUS (EUONYMUS ALATUS 'COMPACTUS')		24-30	FALL COLOR
JCA	COMPACT ANDORRA JUNIPER - 'YOUNGSTOWN' (JUNIPERUS HORIZONTALIS 'YOUNGSTOWN')		18-24	BRIGHT GREEN FOLIAGE TURNS PLUM IN WINTER.
FSR	EARLY FORSYTHIA (FORSYTHIA OVATA)		18-24	EARLIER YELLOW FLOWERS
*All woody shrubs shown in container root condition at time of planting.				
TREES				
ACC	AMUR CHOKECHERRY (PRUNUS MAACKII)		1 1/2"-2"-CAL	WHITE SPRING FLOWERS
GPS	GINKGO 'PRINCETON SENTRY' (MALE CULTIVAR) (GINKGO BILOBA var. 'PRINCETON SENTRY')		2 1/2"-CAL.	GOLD-YELLOW FALL COLOR, NARROW UPRIGHT
JCM	"MANEY" (MANEY JUNIPER)		2 1/2"-CAL	BLUISH GREEN FOLIAGE
JMB	MOUNTBATTER JUNIPER (JUNIPERUS CHINNENSIS MOUNTBATTER)		2"-CAL	
MBW	"AUTUMN FLAME" (RED MAPLE)		2"-CAL	EARLY SCARLET FALL COLOR

• All trees shown in B&B (Balled & Burlapped) root condition at time of planting.

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