

SITE CIVIL AND LANDSCAPE PLANS FOR Central Disposal ARCADIAN AVE, WAUKESHA, WI 53186

VICINITY MAP



DATUM, BENCHMARK, AND SURVEY NOTES

1. SURVEY PROVIDED BY METROPOLITAN SURVEY SERVICE, INC. JANUARY 9, 2024.
2. BEARINGS ARE BASED ON THE WEST LINE OF NW 1/4 OF SEC. 1-6-19 S 00° 12' 56" W (PER CSM NO. 5049)
3. HORIZONTAL DATUM: SEWRPC IS NAD 1983/2011
4. ELEVATIONS REFER TO NAV88 DATUM.
5. STARTING BENCHMARK - SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF SECTION 1-6-19 FOUND BRASS CAP MONUMENT ELEVATION 849.77

Being a redivision of Lot 1 and Lot 2 of Certified Survey Map No. 5049, being a part of the Southwest 1/4 of the Northwest 1/4 Section 1, Township 6 North, Range 19 East, in the City of Waukesha, Waukesha County, Wisconsin

ENGINEER AND LANDSCAPE ARCHITECT:



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

ROBERT J. HARLEY, P.E.
PROJECT MANAGER
Robert.Harley@rasmith.com
262-317-3266

CHRISTOPHER B. WHITE, P.E.
CIVIL ENGINEER
Christopher.White@rasmith.com
262-317-3286

AMY L. SCHNEIDER, PLA
LANDSCAPE ARCHITECT
AMY.SCHNEIDER@RASMITH.COM
262-317-3219

DEVELOPER / OWNER:

CENTRAL DISPOSAL, INC.
1550 ARCADIAN AVENUE
WAUKESHA, WI 53189

KEVIN BOEMER
PHONE: 262-366-3537
CELL: 262-565-7707
KEVIN@CENTRALDISPOSAL.NET

SOIL AND WATER MANAGEMENT NOTE:

ALL UNSUITABLE SOILS TO BE HANDLED BY APPROPRIATELY LICENSED AND CERTIFIED CONTRACTORS. COORDINATE WITH OWNER'S ENVIRONMENTAL CONSULTANT. A SOIL AND WATER MANAGEMENT WILL BE PREPARED BY THE OWNER'S ENVIRONMENTAL CONSULTANT AND SHALL BE FOLLOWED BY THE CONTRACTOR



Know what's below.
Call before you dig.

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.
ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A. SMITH, INC.

PLAN INDEX

SHEET NO.	DESCRIPTION
C000	TITLE SHEET
C100	DEMOLITION AND EROSION CONTROL PLAN
C200	SITE PLAN
C201	TRUCK ACCESS PLAN
C300	GRADING PLAN
C400	WATER MAIN AND SERVICE PLAN
C401	UTILITY PLAN
C500	PROJECT DETAILS
C501	UTILITY DETAILS
C502	STORMWATER DETAILS
C600	SPECIFICATIONS
L100	LANDSCAPE PLAN
L200	LANDSCAPE DETAILS

PLAN PREPARED BY:

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

45676-6 02/26/2024
NUMBER DATE

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 REVISIONS TO THE PLANS AND/OR CONSTRUCTED INFRASTRUCTURE TO COMPLY.

PLAN DATE: 02/26/2024

REVISIONS	ISSUE DATE	SHEET NO.'S	ISSUED FOR:

DATE	DESCRIPTION

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

CREATIVITY BEYOND ENGINEERING

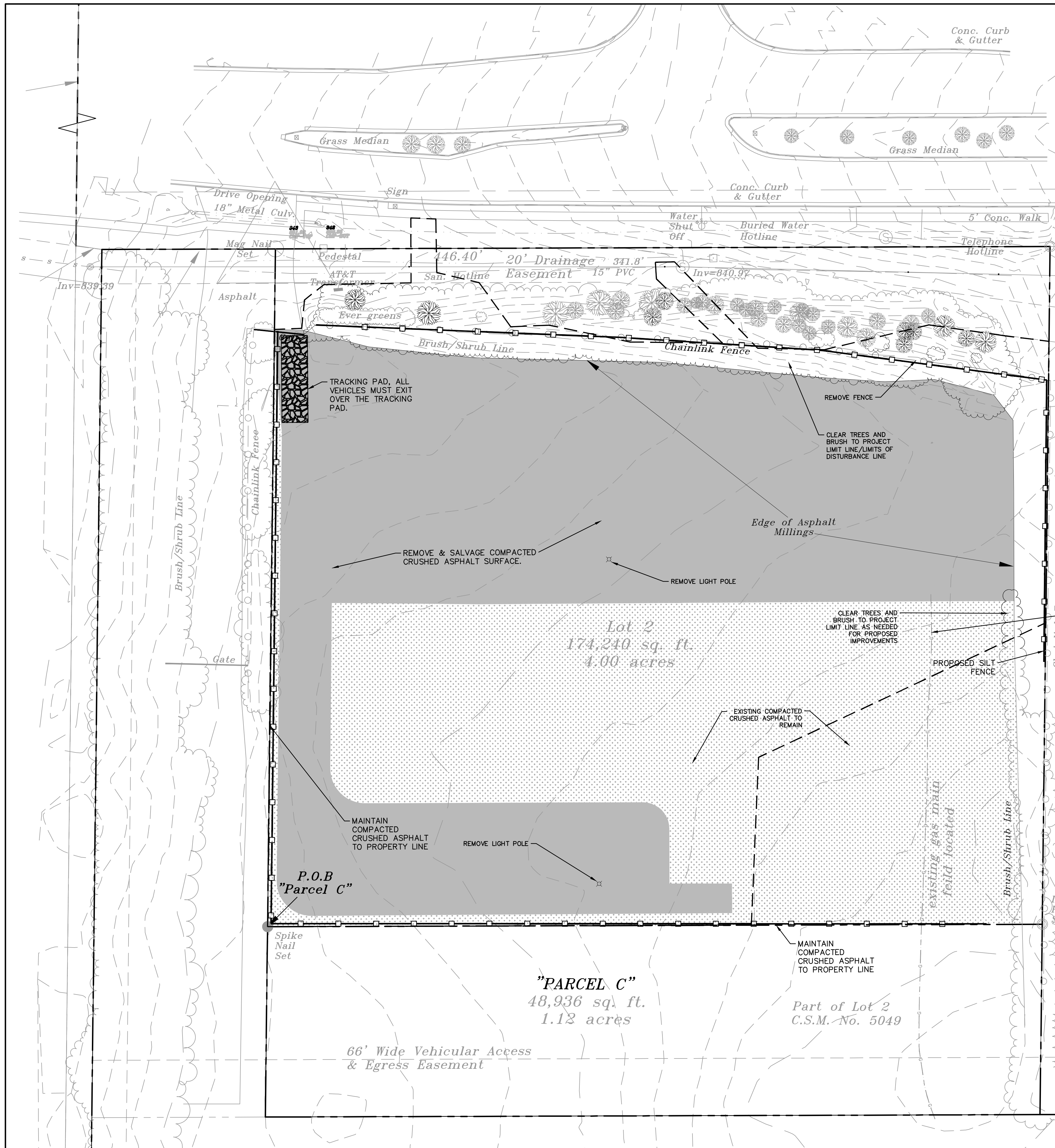
Brookfield, WI | Milwaukee, WI | Appleton, WI | Madison, WI
Cedarburg, WI | Naperville, IL | Irvine, CA

CENTRAL DISPOSAL
CITY OF WAUKESHA, WI

TITLE SHEET

**PRELIMINARY
NOT FOR
CONSTRUCTION**

© COPYRIGHT 2024
R.A. Smith, Inc.
DATE: 02/26/2024
SCALE: N.T.S.
JOB NO. 3230241
PROJECT MANAGER:
ROBERT J. HARLEY, P.E.
DESIGNED BY: CBW
CHECKED BY: RJH
SHEET NUMBER
C000



EROSION CONTROL SEQUENCE

1. INSTALL SILT FENCE.
2. INSTALL TRACKING PAD. THIS IS THE ONLY EXIT TO BE USED FOR ALL CONSTRUCTION ACTIVITIES. CONTRACTOR MAY ADJUST LOCATIONS TO FACILITATE CONSTRUCTION PHASING. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORK DAY.
3. INSTALL STORM DRAIN INLET PROTECTION ON EXISTING INDICATED STORM INLETS.
4. STRIP TOPSOIL AND COMPACTED CRUSHED ASPHALT. GRADE SITE IN INCREMENTS APPROPRIATE TO WORK WHILE MAINTAINING SEDIMENTATION AND EROSION CONTROL PRACTICES IN CONFORMANCE WITH LOCAL AND STATE GUIDELINES LISTED ABOVE.
5. INSTALL WET DETENTION POND AND USE AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION.
6. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL BMP'S WHEN SITE WORK AND GRADING ALLOWS.
7. CONSTRUCT UTILITIES.
8. PREPARE BUILDING FOUNDATION.
9. CONSTRUCT BUILDING.
10. PREPARE PARKING LOT SUBGRADE AND PAVE SITE.
11. APPLY SEED FERTILIZER AND MULCH TO LANDSCAPE LAWN AREAS AS SOON AS POSSIBLE.
12. CONTRACTOR SHALL REMOVE ALL REMAINING TEMPORARY EROSION CONTROL BMP'S WHEN DISTURBED AREAS ARE STABILIZED AND NO LONGER SUSCEPTIBLE TO EROSION. CONSTRUCTION SEDIMENT TO BE CLEANED OUT OF POND.
13. ALL EXPOSED SOIL AREAS NOT DISTURBED FOR UP TO SEVEN CALENDAR DAYS MUST BE IMMEDIATELY RESTORED WITH SEED AND MULCH.

LEGEND

- PROPERTY LINE
- PROJECT LIMITS = 3.06 ACRES
- SILT FENCE
- REMOVE & SALVAGE COMPACTED CRUSHED ASPHALT SURFACE
- TRACKING PAD

GENERAL NOTES:

1. EXISTING ITEMS IN BOLD ARE TO BE REMOVED.
2. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL SITE AND DEMOLITION PERMITS.
3. THE DEMOLITION CONTRACTOR SHALL PREPARE AND MAINTAIN A PROJECT SAFETY PLAN. ALL SITE SAFETY EQUIPMENT AND MEASURES, INCLUDING FENCING, FIRE PROTECTION, AND THE LIKE ARE THE SOLE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR.
4. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. CONTINUOUS ACCESS SHALL BE MAINTAINED AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES. CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC.
5. THE DEMOLITION CONTRACTOR SHALL DEVELOP, OBTAIN NECESSARY APPROVALS/PERMITS AND MAINTAIN TRAFFIC AND PEDESTRIAN CONTROL PLANS THROUGHOUT ALL PHASES OF DEMOLITION.
6. BEFORE PROCEEDING WITH ANY UTILITY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE EACH EXISTING LATERAL OR POINT OF CONNECTION AND VERIFY THE LOCATION, ELEVATION, AND CONDITION OF ALL UTILITIES. IF ANY EXISTING UTILITIES ARE NOT AS SHOWN ON THE DRAWING.
7. DAMAGE TO ALL EXISTING CONDITIONS THAT WERE TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
8. THE EROSION CONTROL PLAN IS IN ACCORDANCE WITH THE CITY OF WAUKESHA, WI MUNICIPAL CODE AND STATE CODE, WHICHEVER IS MOST STRINGENT.
9. IF THE EROSION CONTROL PLAN IS REVISED DURING CONSTRUCTION, A COPY OF THE UPDATED PLAN SHALL BE PROVIDED TO THE CITY WITHIN 3 BUSINESS DAYS OF THAT CHANGE.
10. DAMAGE TO ALL EXISTING CONDITIONS THAT WERE TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
11. ALL EXPOSED SOIL AREAS NOT DISTURBED FOR UP TO SEVEN DAYS MUST BE IMMEDIATELY RESTORED WITH SEED AND MULCH.
12. SEE THE GEOTECHNICAL REPORT FOR SOILS INFORMATION. THE MAJORITY OF THE SITE IS FILL.
13. ALL WORK WITHIN CITY RIGHT OF WAY AND CITY EASEMENTS TO BE IN ACCORDANCE WITH CURRENT CITY STANDARD SPECIFICATIONS AND DETAILS.
14. REVIEW ALL CITY SIDEWALK ADJOINING THE PROPERTY LIMITS WITH A CITY ENGINEERING REPRESENTATIVE. IF THE SIDEWALK MEETS REPLACEMENT CRITERIA DUE TO CRACKING, MISSING PIECES, OR DISPLACEMENT, THEN THE SIDEWALK WILL NEED TO BE REMOVED AND REPLACED.
15. NOTIFY CITY ENGINEERING DEPARTMENT 5 DAYS PRIOR TO WORK IN CITY RIGHT OF WAY.
16. LIMITS OF FINAL CITY STREET PAVEMENT AND CURB AND GUTTER REMOVAL AND REPLACEMENT TO BE MARKED BY CITY ENGINEERING STAFF IN FIELD.
17. THIS SITE ULTIMATELY DRAINS TO THE FOX RIVER VIA FRAME PARK CREEK.
18. APPROXIMATE START DATE: EARLY SPRING 2024
19. APPROXIMATE END DATE: EARLY FALL 2024

SOIL AND WATER MANAGEMENT NOTE:

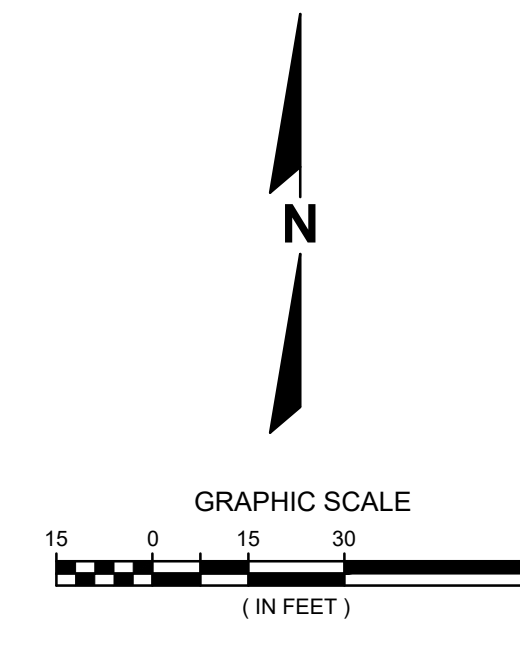
ALL UNSUITABLE SOILS TO BE HANDLED BY APPROPRIATELY LICENSED AND CERTIFIED CONTRACTORS. COORDINATE WITH OWNER'S ENVIRONMENTAL CONSULTANT. A SOIL AND WATER MANAGEMENT WILL BE PREPARED BY THE OWNER'S ENVIRONMENTAL CONSULTANT AND SHALL BE FOLLOWED BY THE CONTRACTOR



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

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.

ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A.SMITH, INC.



DESCRIPTION
DATE

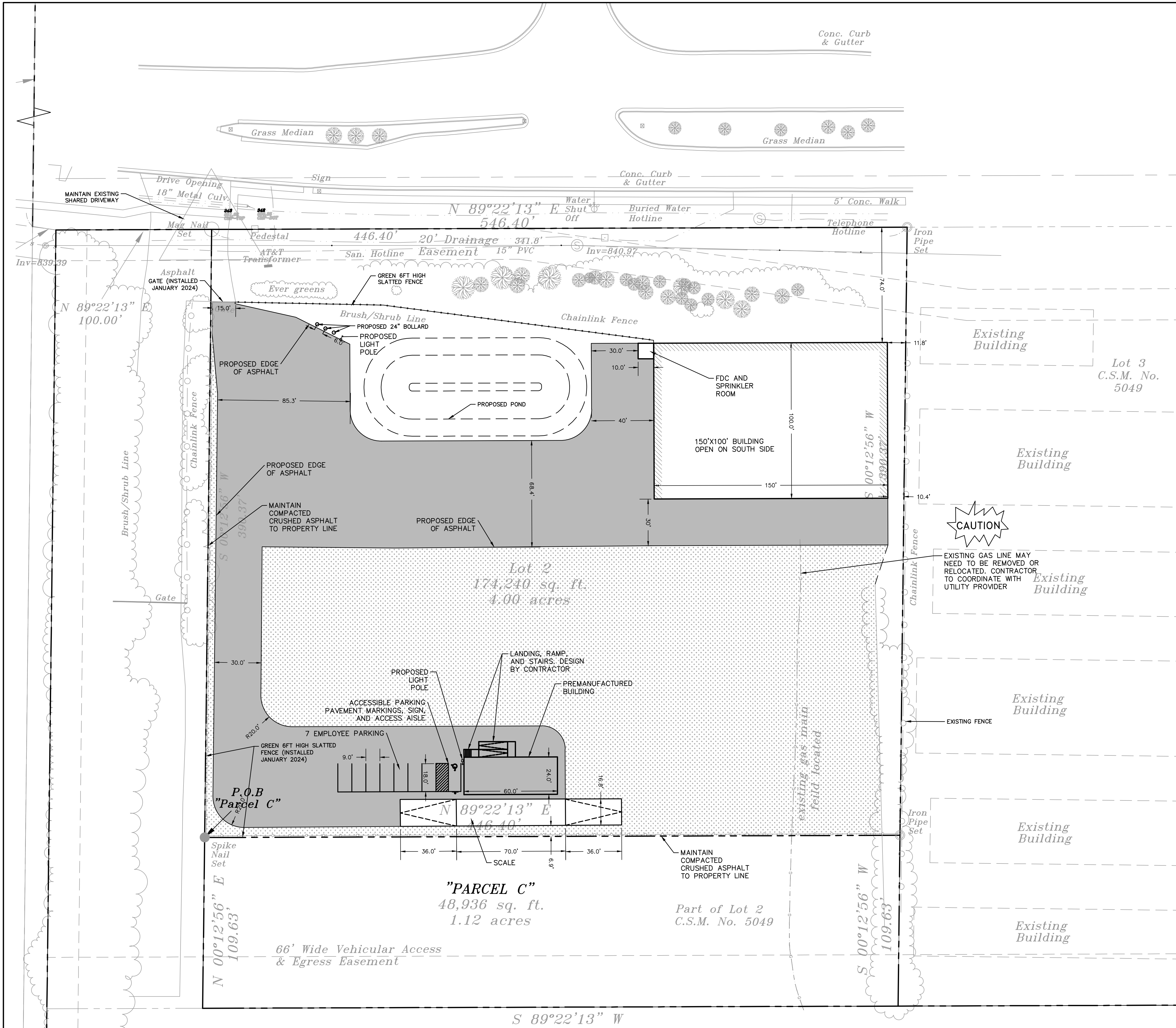
16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rasmith.com

raSmith
CREATIVITY BEYOND ENGINEERING

Brookfield, WI | Milwaukee, WI | Appleton, WI | Madison, WI
Cedarburg, WI | Naperville, IL | Irvine, CA

**CENTRAL DISPOSAL
CITY OF WAUKESHA, WI
DEMOLITION AND
EROSION CONTROL PLAN**

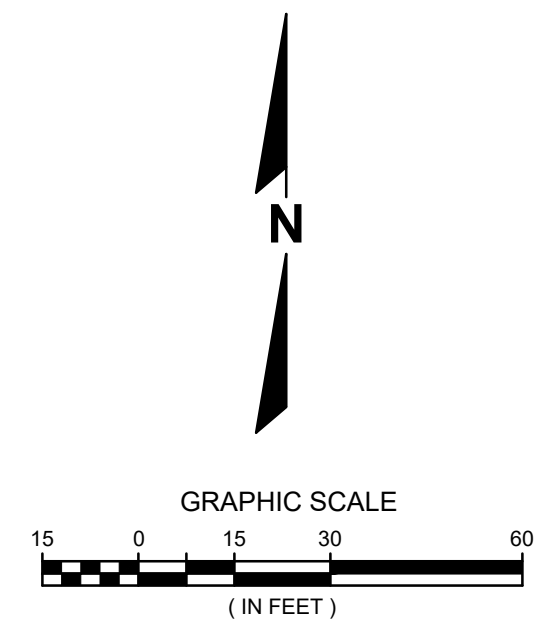
© COPYRIGHT 2024 R.A. Smith, Inc.
DATE: 02/26/2024
SCALE: 1" = 30'
JOB NO. 3230241
PROJECT MANAGER: ROBERT J. HARLEY, P.E.
DESIGNED BY: CBW
CHECKED BY: RJH
SHEET NUMBER C100



Conc. Curb & Gutter

Grass Median

Grass Median



LEGEND

- PROPERTY LINE
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
 - PROPOSED/EXISTING COMPACTED CRUSHED ASPHALT SURFACE

GENERAL NOTES:

- EXISTING TOPOGRAPHY OBTAINED BY METROPOLITAN SURVEY SERVICE, INC JANUARY 9, 2024.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSION OF ENTRANCES, VESTIBULES, RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE CITY OF WAUKESHA, WI EROSION CONTROL ORDINANCE AND STATE OF WISCONSIN TECHNICAL STANDARDS.
- ALL DIMENSIONS AND CORRESPONDING HORIZONTAL CONTROL RELATED TO PAVING REPRESENT FACE OF CURB. ELEVATIONS AND CONTOURS REPRESENT FINISHED GRADES UNLESS OTHERWISE INDICATED. BUILDINGS ARE DIMENSIONED TO FACE OF BUILDING.
- BEFORE PROCEEDING WITH ANY UTILITY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE EACH EXISTING LATERAL OR POINT OF CONNECTION AND VERIFY THE SIZE, LOCATION AND ELEVATION OF ALL UTILITIES.
- ALL SITE SIGNAGE MUST COMPLY WITH THE MOST RECENT EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ALL WORK WITHIN CITY RIGHT OF WAY AND CITY EASEMENTS TO BE IN ACCORDANCE WITH CURRENT CITY STANDARD SPECIFICATIONS AND DETAILS.
- REVIEW ALL CITY SIDEWALK ADJOINING THE PROPERTY LIMITS WITH A CITY ENGINEERING REPRESENTATIVE. IF THE SIDEWALK MEETS REPLACEMENT CRITERIA DUE TO CRACKING, MISSING PIECES, OR DISPLACEMENT, THEN THE SIDEWALK WILL NEED TO BE REMOVED AND REPLACED.
- NOTIFY CITY ENGINEERING DEPARTMENT 5 DAYS PRIOR TO WORK IN CITY RIGHT OF WAY.
- LIMITS OF FINAL CITY STREET PAVEMENT AND CURB AND GUTTER REMOVAL AND REPLACEMENT TO BE MARKED BY CITY ENGINEERING STAFF IN FIELD.

SITE STATISTICS - EXISTING CONDITIONS

	SQFT	ACRES	COVERAGE
TOTAL AREA	174,240	4.00	
TOTAL PERVIOUS	104,302	2.39	59.7%
TOTAL IMPERVIOUS	69,938	1.61	40.3%

SITE STATISTICS - PROPOSED CONDITIONS

	SQFT	ACRES	COVERAGE
TOTAL AREA	174,240	4.00	
TOTAL PERVIOUS	75,647	1.74	43.4%
TOTAL IMPERVIOUS	98,593	2.26	56.6%

*COMPACTED CRUSHED ASPHALT IS CONSIDERED 50% GREEN SPACE PER CITY CODE IN THE EXISTING AND PROPOSED CONDITION. THIS IS REFLECTED IN THE SITE STATISTICS SHOWN ON THIS SHEET.

SOIL AND WATER MANAGEMENT NOTE:

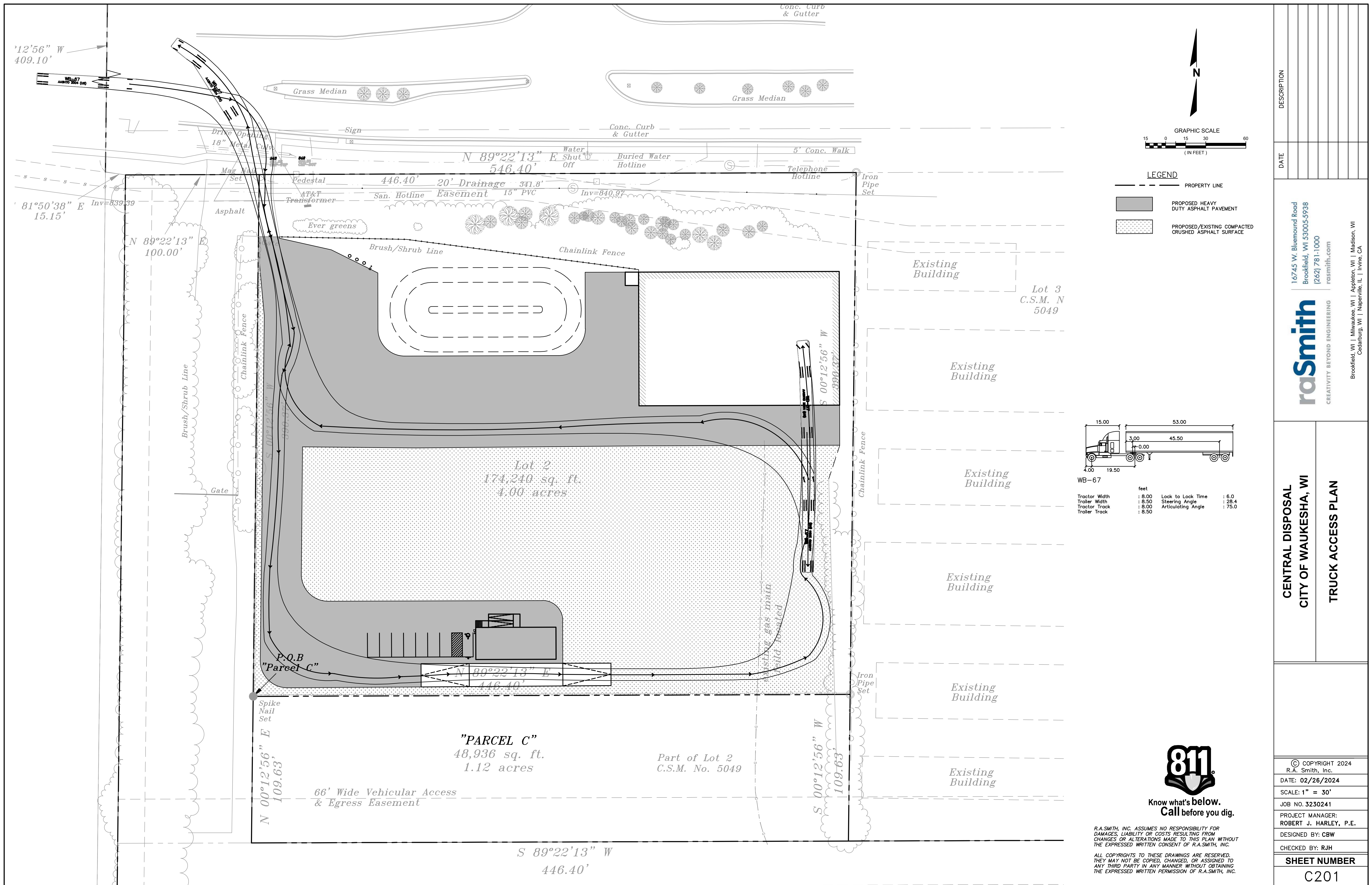
ALL UNSUITABLE SOILS TO BE HANDLED BY APPROPRIATELY LICENSED AND CERTIFIED CONTRACTORS. COORDINATE WITH OWNER'S ENVIRONMENTAL CONSULTANT. A SOIL AND WATER MANAGEMENT WILL BE PREPARED BY THE OWNER'S ENVIRONMENTAL CONSULTANT AND SHALL BE FOLLOWED BY THE CONTRACTOR



Know what's below. Call before you dig.

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.
ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A. SMITH, INC.

DATE	DESCRIPTION
<p>16745 W. Bluemound Road Brookfield, WI 53005-5938 (262) 781-1000 rasmith.com</p>	
<p>Brookfield, WI Milwaukee, WI Appleton, WI Madison, WI Cedarburg, WI Naperville, IL Irvine, CA</p> <p>CREATIVITY BEYOND ENGINEERING</p>	
<p>CENTRAL DISPOSAL CITY OF WAUKESHA, WI</p>	<p>SITE PLAN</p>
<p>© COPYRIGHT 2024 R.A. Smith, Inc. DATE: 02/26/2024 SCALE: 1" = 30' JOB NO. 3230241 PROJECT MANAGER: ROBERT J. HARLEY, P.E. DESIGNED BY: CBW CHECKED BY: RJH</p>	
<p>SHEET NUMBER C200</p>	



DATE	DESCRIPTION

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

raSmith
 CREATIVITY BEYOND ENGINEERING

Brookfield, WI | Milwaukee, WI | Appleton, WI | Madison, WI
 Cedarburg, WI | Naperville, IL | Irvine, CA

**CENTRAL DISPOSAL
 CITY OF WAUKESHA, WI**

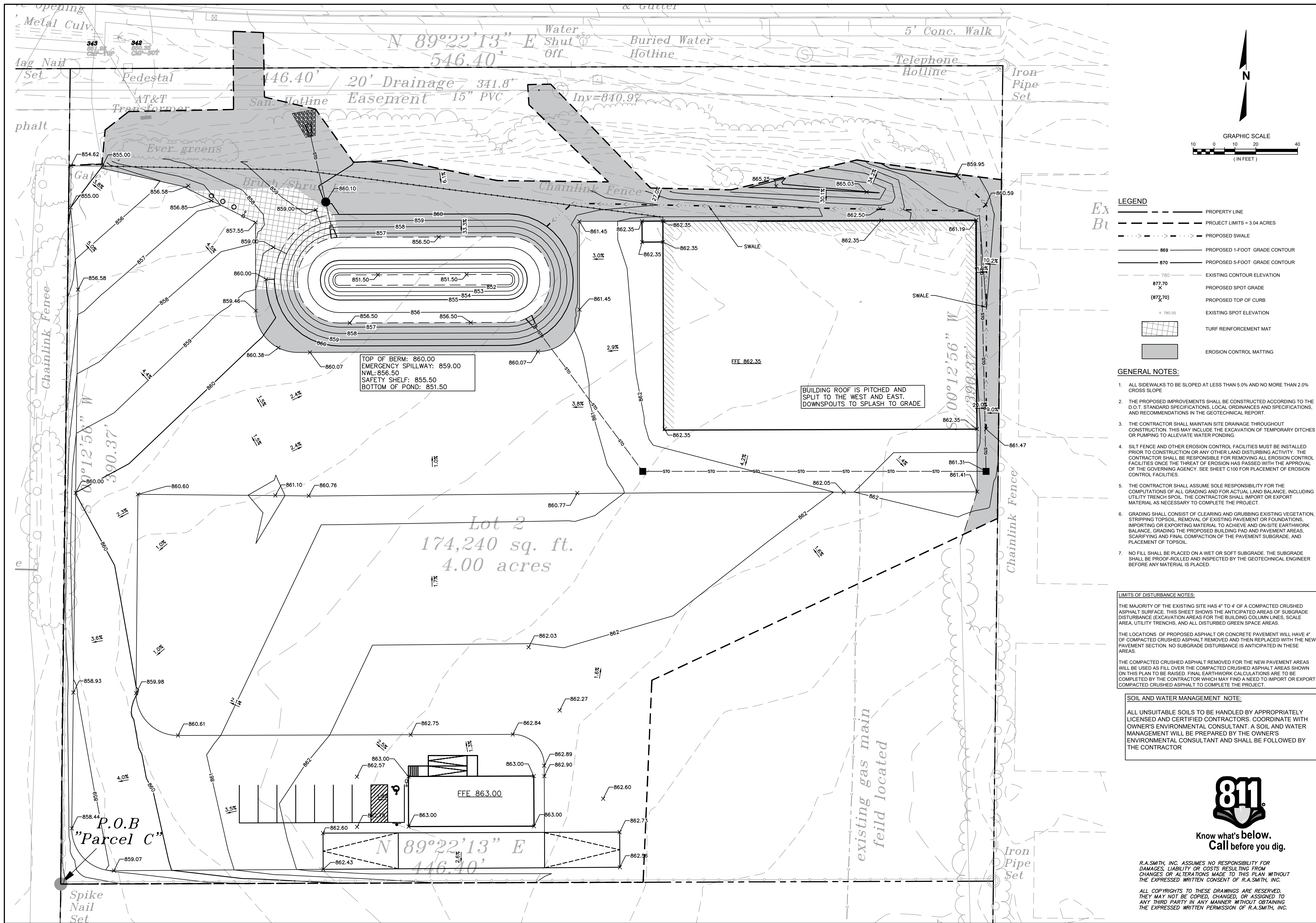
TRUCK ACCESS PLAN

© COPYRIGHT 2024 R.A. Smith, Inc.
DATE: 02/26/2024
SCALE: 1" = 30'
JOB NO. 3230241
PROJECT MANAGER: ROBERT J. HARLEY, P.E.
DESIGNED BY: CBW
CHECKED BY: RJH
SHEET NUMBER
C201

811
 Know what's below.
 Call before you dig.

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.

ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A. SMITH, INC.



TOP OF BERM: 860.00
 EMERGENCY SPILLWAY: 859.00
 NWL: 856.50
 SAFETY SHELF: 855.50
 BOTTOM OF POND: 851.50

BUILDING ROOF IS PITCHED AND
 SPLIT TO THE WEST AND EAST.
 DOWNSPOUTS TO SPLASH TO GRADE.

P.O.B
 "Parcel C"

N 89°22'13" E
 146.40'

Lot 2
 174,240 sq. ft.
 4.00 acres

- LEGEND**
- PROPERTY LINE
 - - - PROJECT LIMITS = 3.04 ACRES
 - - - - - PROPOSED SWALE
 - 869 — PROPOSED 1-FOOT GRADE CONTOUR
 - 870 — PROPOSED 5-FOOT GRADE CONTOUR
 - 780 — EXISTING CONTOUR ELEVATION
 - 877.70 X — PROPOSED SPOT GRADE
 - (877.70) — PROPOSED TOP OF CURB
 - X 780.55 — EXISTING SPOT ELEVATION
 - [Grid Pattern] — TURF REINFORCEMENT MAT
 - [Hatched Area] — EROSION CONTROL MATTING

- GENERAL NOTES:**
1. ALL SIDEWALKS TO BE SLOPED AT LESS THAN 5.0% AND NO MORE THAN 2.0% CROSS SLOPE
 2. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE D.O.T. STANDARD SPECIFICATIONS, LOCAL ORDINANCES AND SPECIFICATIONS, AND RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
 3. THE CONTRACTOR SHALL MAINTAIN SITE DRAINAGE THROUGHOUT CONSTRUCTION. THIS MAY INCLUDE THE EXCAVATION OF TEMPORARY DITCHES OR PUMPING TO ALLEVIATE WATER PONDING.
 4. SILT FENCE AND OTHER EROSION CONTROL FACILITIES MUST BE INSTALLED PRIOR TO CONSTRUCTION OR ANY OTHER LAND DISTURBING ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION CONTROL FACILITIES ONCE THE THREAT OF EROSION HAS PASSED WITH THE APPROVAL OF THE GOVERNING AGENCY. SEE SHEET C100 FOR PLACEMENT OF EROSION CONTROL FACILITIES.
 5. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPUTATIONS OF ALL GRADING AND FOR ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SPOIL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT.
 6. GRADING SHALL CONSIST OF CLEARING AND GRUBBING EXISTING VEGETATION, STRIPPING TOPSOIL, REMOVAL OF EXISTING PAVEMENT OR FOUNDATIONS, IMPORTING OR EXPORTING MATERIAL TO ACHIEVE AND ON-SITE EARTHWORK BALANCE, GRADING THE PROPOSED BUILDING PAD AND PAVEMENT AREAS, SCARIFYING AND FINAL COMPACTION OF THE PAVEMENT SUBGRADE, AND PLACEMENT OF TOPSOIL.
 7. NO FILL SHALL BE PLACED ON A WET OR SOFT SUBGRADE. THE SUBGRADE SHALL BE PROOF-ROLLED AND INSPECTED BY THE GEOTECHNICAL ENGINEER BEFORE ANY MATERIAL IS PLACED.

LIMITS OF DISTURBANCE NOTES:

THE MAJORITY OF THE EXISTING SITE HAS 4" TO 4' OF A COMPACTED CRUSHED ASPHALT SURFACE. THIS SHEET SHOWS THE ANTICIPATED AREAS OF SUBGRADE DISTURBANCE (EXCAVATION AREAS FOR THE BUILDING COLUMN LINES, SCALE AREA, UTILITY TRENCHES, AND ALL DISTURBED GREEN SPACE AREAS).

THE LOCATIONS OF PROPOSED ASPHALT OR CONCRETE PAVEMENT WILL HAVE 4" OF COMPACTED CRUSHED ASPHALT REMOVED AND THEN REPLACED WITH THE NEW PAVEMENT SECTION. NO SUBGRADE DISTURBANCE IS ANTICIPATED IN THESE AREAS.

THE COMPACTED CRUSHED ASPHALT REMOVED FOR THE NEW PAVEMENT AREAS WILL BE USED AS FILL OVER THE COMPACTED CRUSHED ASPHALT AREAS SHOWN ON THIS PLAN TO BE RAISED. FINAL EARTHWORK CALCULATIONS ARE TO BE COMPLETED BY THE CONTRACTOR WHICH MAY FIND A NEED TO IMPORT OR EXPORT COMPACTED CRUSHED ASPHALT TO COMPLETE THE PROJECT.

SOIL AND WATER MANAGEMENT NOTE:

ALL UNSUITABLE SOILS TO BE HANDLED BY APPROPRIATELY LICENSED AND CERTIFIED CONTRACTORS. COORDINATE WITH OWNER'S ENVIRONMENTAL CONSULTANT. A SOIL AND WATER MANAGEMENT WILL BE PREPARED BY THE OWNER'S ENVIRONMENTAL CONSULTANT AND SHALL BE FOLLOWED BY THE CONTRACTOR

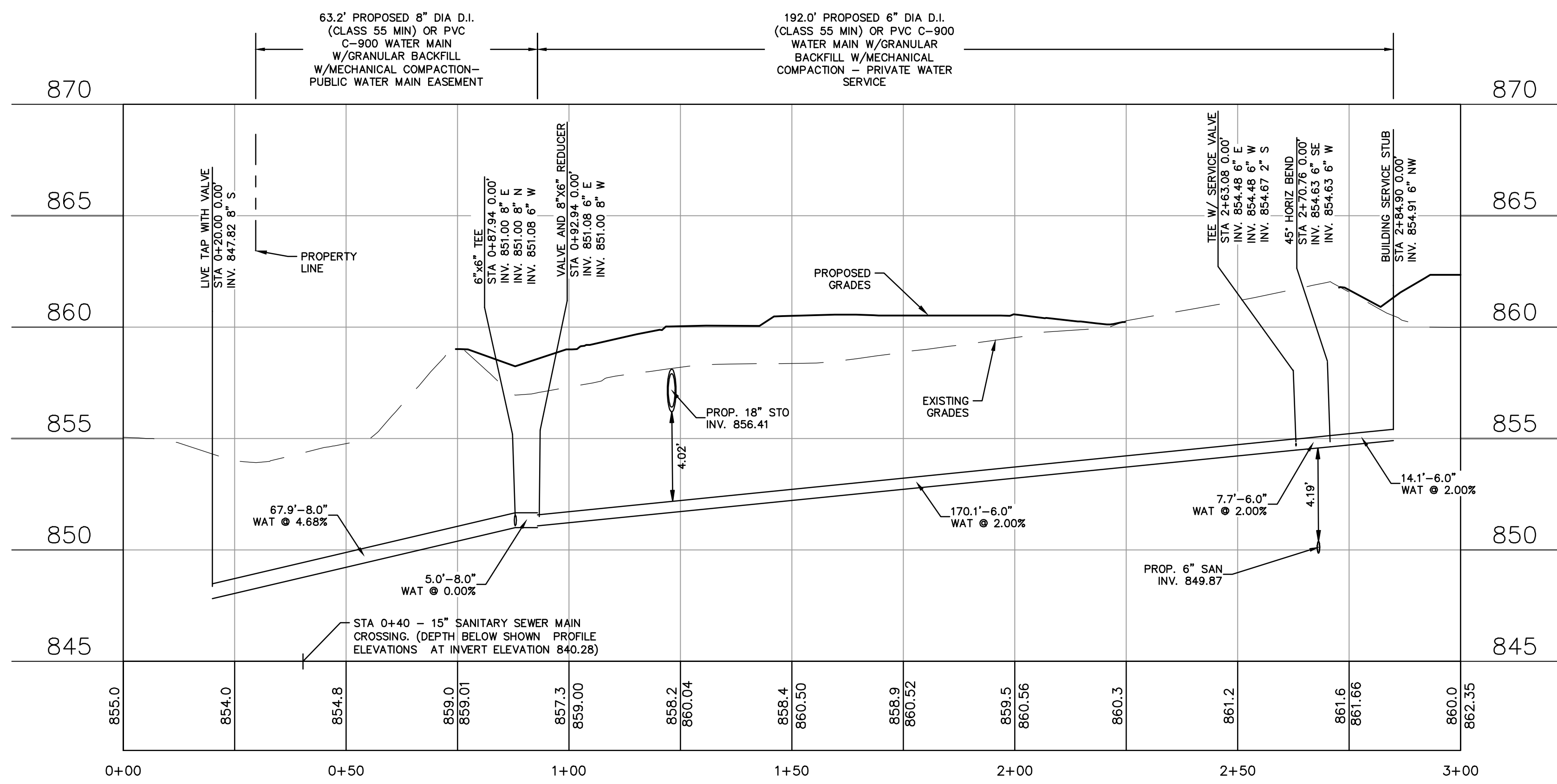


Know what's below.
 Call before you dig.

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.

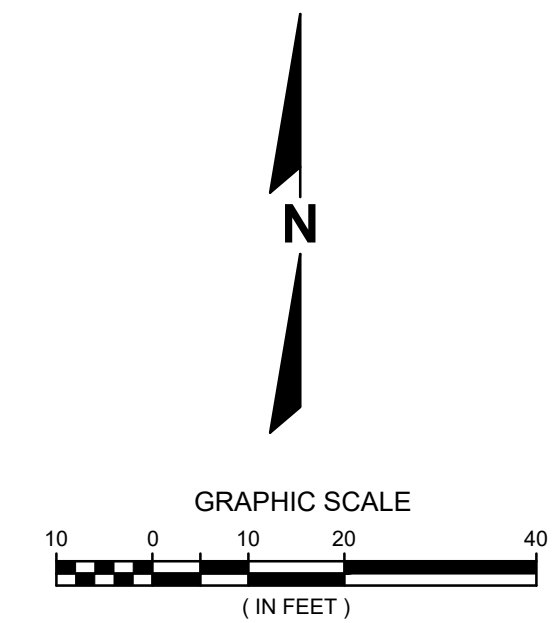
ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A. SMITH, INC.

DESCRIPTION	
DATE	
16745 W. Bluemound Road Brookfield, WI 53005-5938 (262) 781-1000 rasmith.com 	
CENTRAL DISPOSAL CITY OF WAUKESHA, WI GRADING PLAN	
© COPYRIGHT 2024 R.A. Smith, Inc. DATE: 02/26/2024 SCALE: 1" = 20' JOB NO. 3230241 PROJECT MANAGER: ROBERT J. HARLEY, P.E. DESIGNED BY: CBW CHECKED BY: RJH SHEET NUMBER C300	



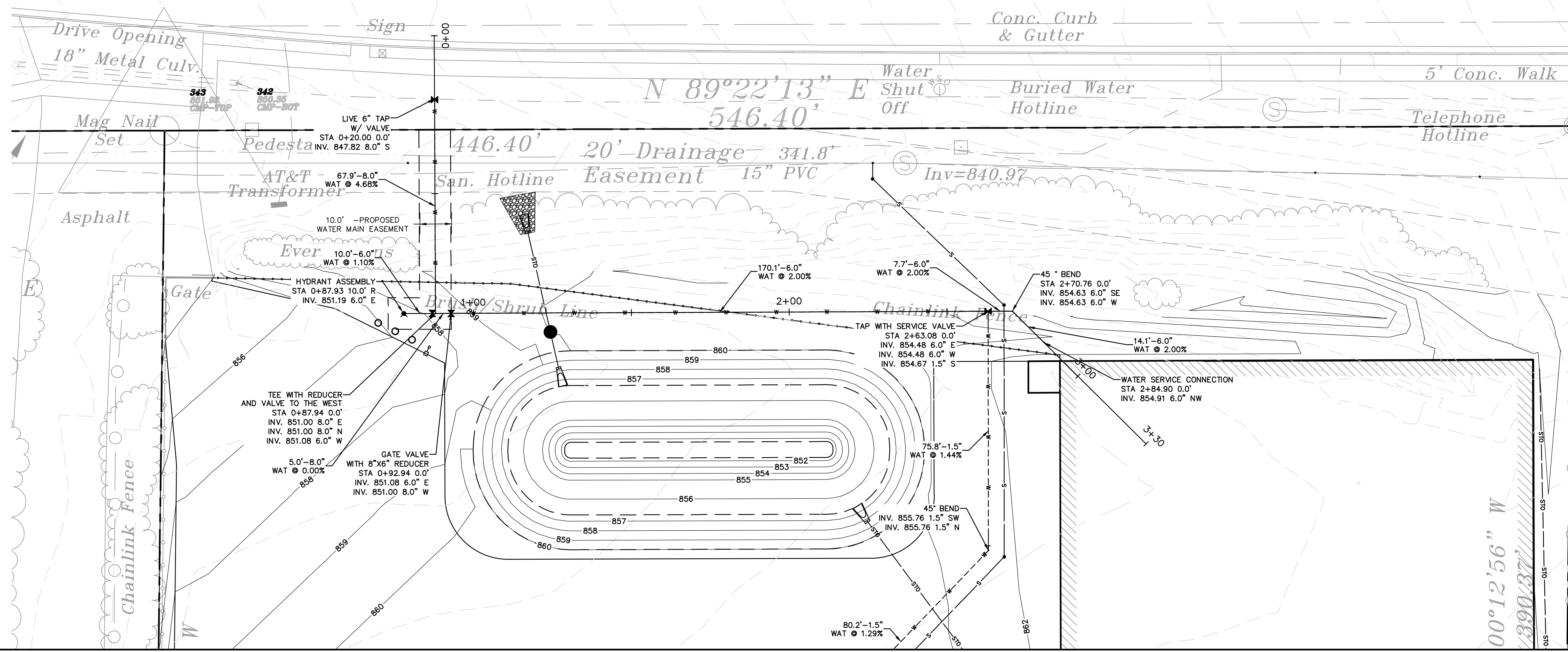
- LEGEND**
- PROPERTIES LINE
 - - - - - STS - EXISTING STORM SEWER
 - - - - - S - EXISTING SANITARY SEWER
 - - - - - W - EXISTING WATER MAIN
 - - - - - T - EXISTING TELEPHONE
 - - - - - E - EXISTING ELECTRIC
 - - - - - G - EXISTING GAS
 - - - - - W - PROPOSED WATER MAIN
 - - - - - S - PROPOSED SANITARY SEWER

- GENERAL NOTES:**
1. CONTRACTOR TO MAINTAIN MINIMUM 12" CLEARANCE WHEN WATER MAIN CROSSES ABOVE SEWER. CONTRACTOR TO MAINTAIN MINIMUM 18" CLEARANCE WHEN WATER SERVICE CROSSES BELOW SEWER.
 2. BEFORE PROCEEDING WITH ANY UTILITY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE EACH EXISTING LATERAL OR POINT OF CONNECTION AND VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES. IF ANY EXISTING UTILITIES ARE NOT AS SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR POSSIBLE REDESIGN.
 3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING REQUIRED CASTING IS COMPATIBLE WITH SPECIFIED STRUCTURE. IF NOT COMPATIBLE, CONTACT ENGINEER IMMEDIATELY.
 4. CONTRACTOR TO CONFIRM AND VERIFY SITE LIGHTING PLAN WITH ARCHITECTURAL PLANS AND/OR MEP PLANS.
 5. OVERALL SITE MUST BE WITHIN 4" OF FINAL GRADE BEFORE ELECTRIC CAN BE INSTALLED. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER.
 6. EVERYTHING BEYOND THE SERVICE VALVE, CONNECTING THE PRIVATE FACILITY TO THE PUBLIC FACILITY FOR WATER MAIN, IS PRIVATE AND TO BE MAINTAINED BY THE OWNER.
 7. ALL SANITARY SEWER TO BE INSTALLED IN ACCORDANCE WITH THE CITY OF WAUKESHA STANDARDS
 8. ALL APPLICATIONS AND FEES FOR SANITARY SEWER MUST BE COMPLETED AND PAID PRIOR TO CONNECTION TO SEWER SYSTEMS
 9. ANY UTILITY WORK IN THE RIGHT OF WAY AND ALL SANITARY SEWER CONNECTIONS TO BE INSPECTED BY CITY. NOTIFY CITY 72 HOURS IN ADVANCE OF CONNECTING SEWER.
 10. 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 AT A MINIMUM THE DRAWING SHOULD INCLUDE: RIM/OVER ELEVATION, INVERT ELEVATION, DISTANCES, SLOPES, MATERIALS. CONTRACTOR, INSTALLATION DATES (MONTH AND YEAR COMPLETED), ANY NOTES RELATED TO MAJOR FIELD CHANGES (I.E. ADDITIONAL/DELETED STRUCTURES, ETC.), SIGNED AND SEALED BY PROFESSIONAL ENGINEER OR REGISTERED LAND SURVEYOR, AUTOCAD DRAWING FOR IMPORTING INTO GIS, A REDLINED COPY OF THE PLANS WITH THE PROPOSED INFORMATION CROSSED OUT AND THE ACTUAL INFORMATION NEXT TO IT IS ACCEPTABLE AND HELPS THE REVIEW PROCESS.
 11. A VIDEO OF THE COMPLETED SANITARY LATERAL FROM THE BUILDING TO THE MAINLINE SEWER SHALL BE SUBMITTED TO THE ENGINEERING DIVISION.



DESCRIPTION	DATE
16745 W. Bluemound Road Brookfield, WI 53005-5938 (262) 781-1000 rasmith.com	

**CENTRAL DISPOSAL
CITY OF WAUKESHA, WI
WATER MAIN AND SERVICE PLAN**



SOIL AND WATER MANAGEMENT NOTE:

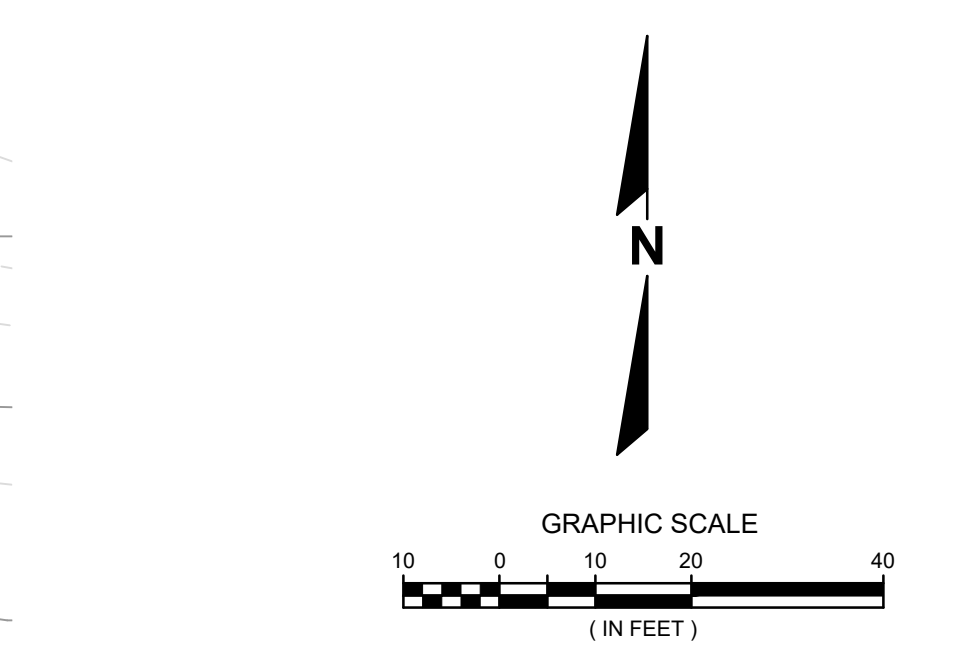
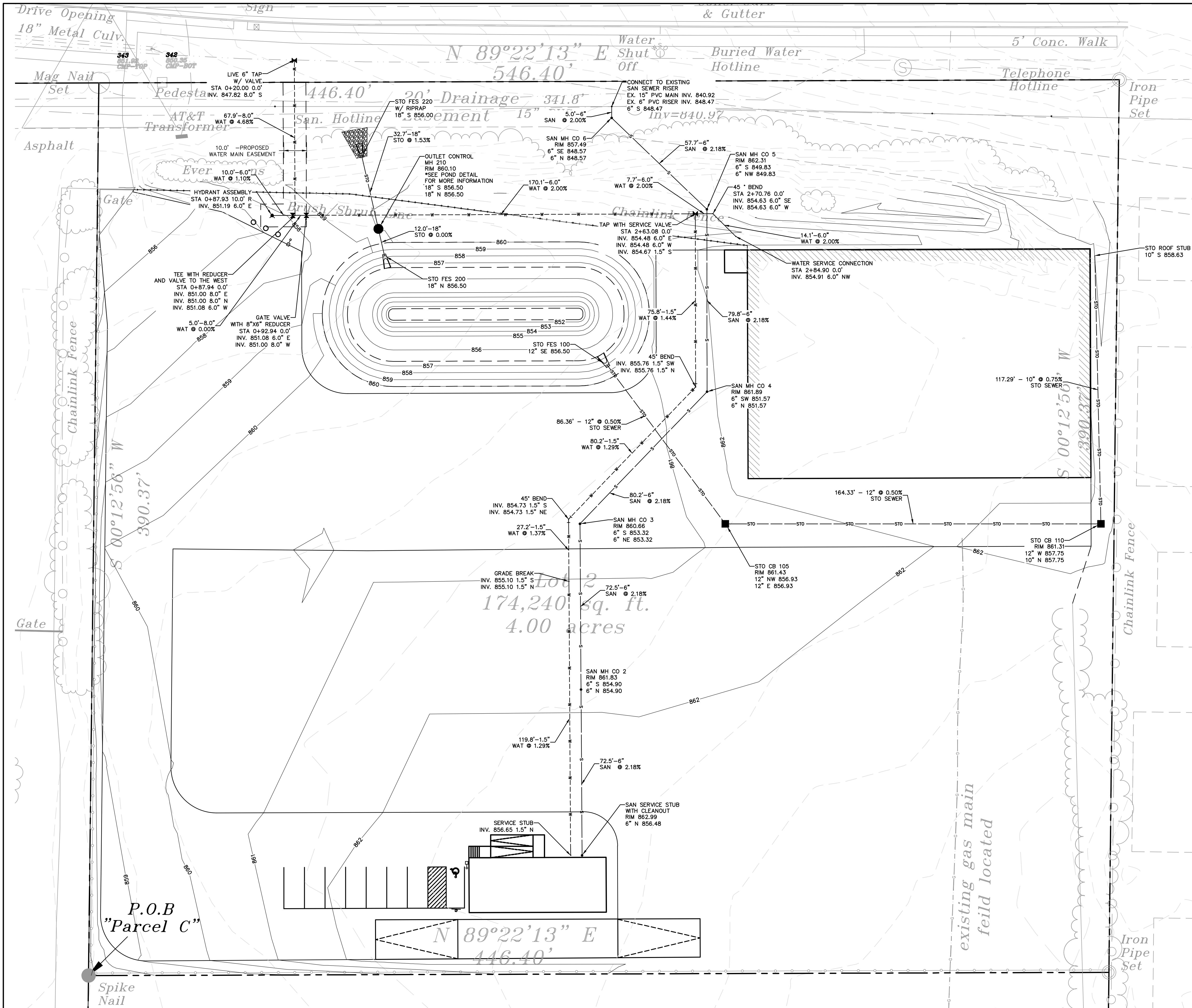
ALL UNSUITABLE SOILS TO BE HANDLED BY APPROPRIATELY LICENSED AND CERTIFIED CONTRACTORS. COORDINATE WITH OWNER'S ENVIRONMENTAL CONSULTANT. A SOIL AND WATER MANAGEMENT WILL BE PREPARED BY THE OWNER'S ENVIRONMENTAL CONSULTANT AND SHALL BE FOLLOWED BY THE CONTRACTOR



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.

ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A. SMITH, INC.

© COPYRIGHT 2024 R.A. Smith, Inc.
DATE: 02/26/2024
SCALE: 1" = 20'
JOB NO. 3230241
PROJECT MANAGER: ROBERT J. HARLEY, P.E.
DESIGNED BY: CBW
CHECKED BY: RJH
SHEET NUMBER
C400



LEGEND

	PROPERTY LINE
	EXISTING STORM SEWER
	EXISTING SANITARY SEWER
	EXISTING WATER MAIN
	EXISTING TELEPHONE
	EXISTING ELECTRIC
	EXISTING GAS
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER

- GENERAL NOTES:**
- CONTRACTOR TO MAINTAIN MINIMUM 12" CLEARANCE WHEN WATER MAIN CROSSES ABOVE SEWER. CONTRACTOR TO MAINTAIN MINIMUM 18" CLEARANCE WHEN WATER SERVICE CROSSES BELOW SEWER.
 - BEFORE PROCEEDING WITH ANY UTILITY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE EACH EXISTING LATERAL OR POINT OF CONNECTION AND VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES. IF ANY EXISTING UTILITIES ARE NOT AS SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR POSSIBLE REDESIGN.
 - CONTRACTOR IS RESPONSIBLE FOR VERIFYING REQUIRED CASTING IS COMPATIBLE WITH SPECIFIED STRUCTURE. IF NOT COMPATIBLE, CONTACT ENGINEER IMMEDIATELY.
 - CONTRACTOR TO CONFIRM AND VERIFY SITE LIGHTING PLAN WITH ARCHITECTURAL PLANS AND/OR MEP PLANS.
 - OVERALL SITE MUST BE WITHIN 4" OF FINAL GRADE BEFORE ELECTRIC CAN BE INSTALLED. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER.
 - EVERYTHING BEYOND THE SERVICE VALVE, CONNECTING THE PRIVATE FACILITY TO THE PUBLIC FACILITY FOR WATER MAIN, IS PRIVATE AND TO BE MAINTAINED BY THE OWNER.
 - ALL SANITARY SEWER TO BE INSTALLED IN ACCORDANCE WITH THE CITY OF WAUKESHA STANDARDS.
 - ALL APPLICATIONS AND FEES FOR SANITARY SEWER MUST BE COMPLETED AND PAID PRIOR TO CONNECTION TO SEWER SYSTEMS.
 - ANY UTILITY WORK IN THE RIGHT OF WAY AND ALL SANITARY SEWER CONNECTIONS TO BE INSPECTED BY CITY. NOTIFY CITY 72 HOURS IN ADVANCE OF CONNECTING SEWER.
 - 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 AT A MINIMUM THE DRAWING SHOULD INCLUDE: RIMCOVER ELEVATION, INVERT ELEVATION, DISTANCES, SLOPES, MATERIALS, CONTRACTOR, INSTALLATION DATES (MONTH AND YEAR COMPLETED), ANY NOTES RELATED TO MAJOR FIELD CHANGES (I.E. ADDITIONAL/DELETED STRUCTURES, ETC.), SIGNED AND SEALED BY PROFESSIONAL ENGINEER OR REGISTERED LAND SURVEYOR. AUTOCAD DRAWING FOR IMPORTING INTO GIS. A REDLINED COPY OF THE PLANS WITH THE PROPOSED INFORMATION CROSSED OUT AND THE ACTUAL INFORMATION NEXT TO IT IS ACCEPTABLE AND HELPS THE REVIEW PROCESS.
 - A VIDEO OF THE COMPLETED SANITARY LATERAL FROM THE BUILDING TO THE MAINLINE SEWER SHALL BE SUBMITTED TO THE ENGINEERING DIVISION.

SOIL AND WATER MANAGEMENT NOTE:

ALL UNSUITABLE SOILS TO BE HANDLED BY APPROPRIATELY LICENSED AND CERTIFIED CONTRACTORS. COORDINATE WITH OWNER'S ENVIRONMENTAL CONSULTANT. A SOIL AND WATER MANAGEMENT WILL BE PREPARED BY THE OWNER'S ENVIRONMENTAL CONSULTANT AND SHALL BE FOLLOWED BY THE CONTRACTOR



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.

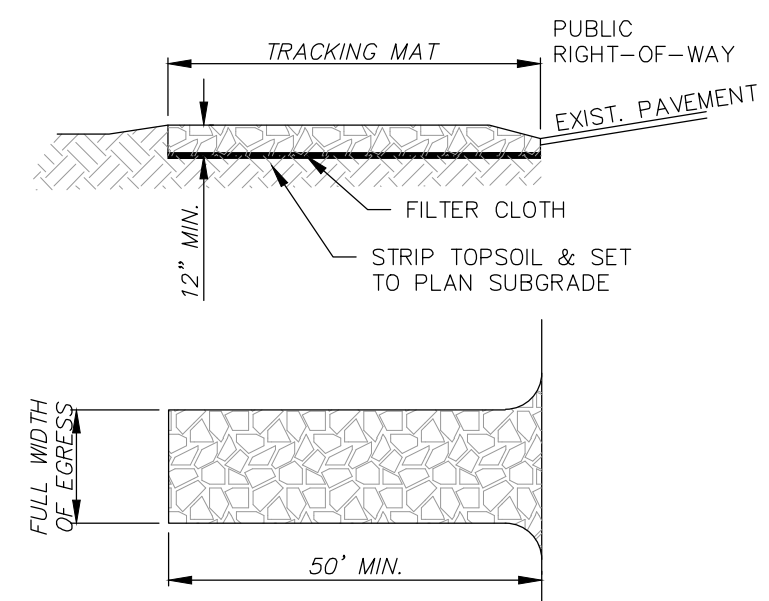
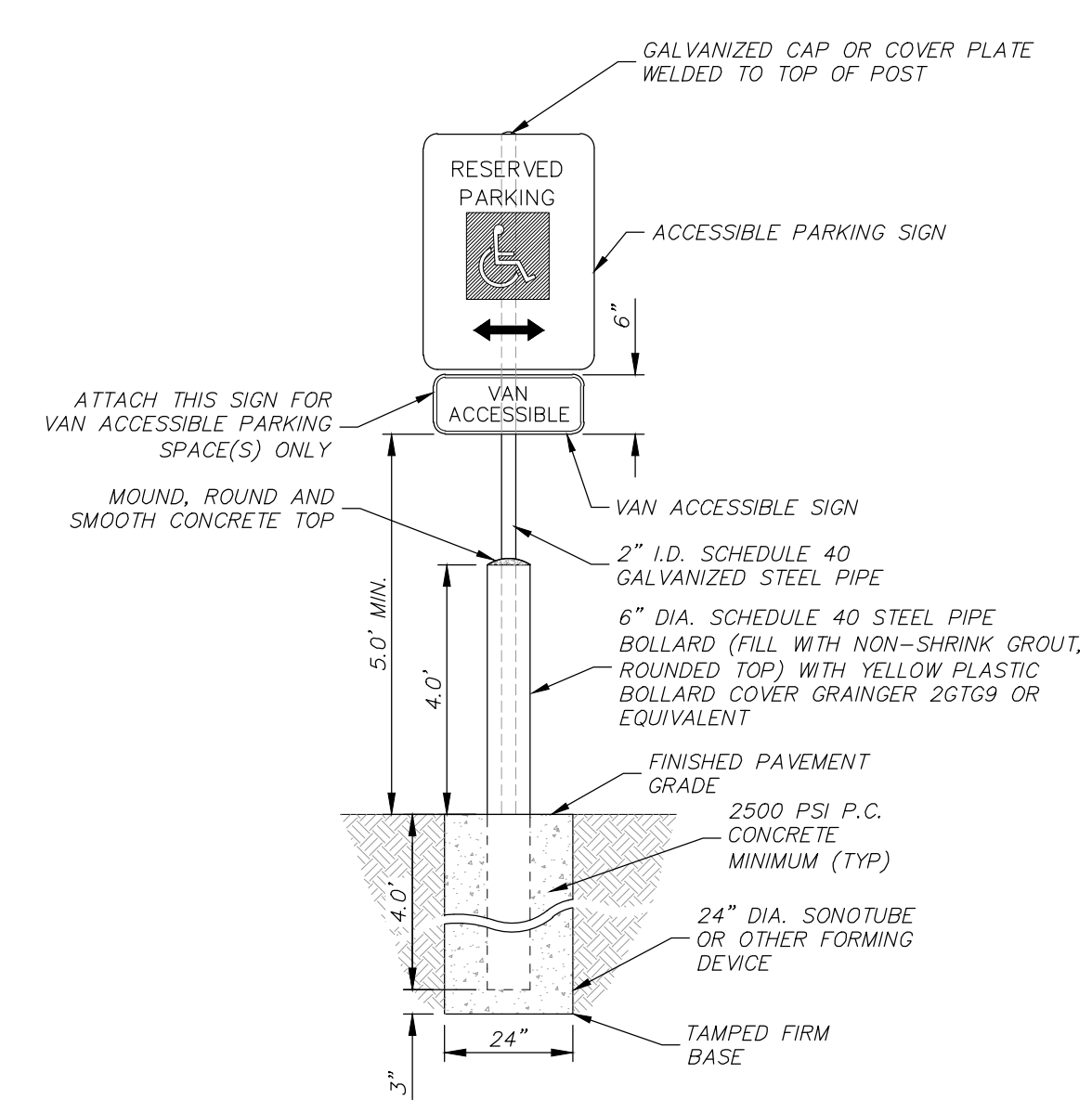
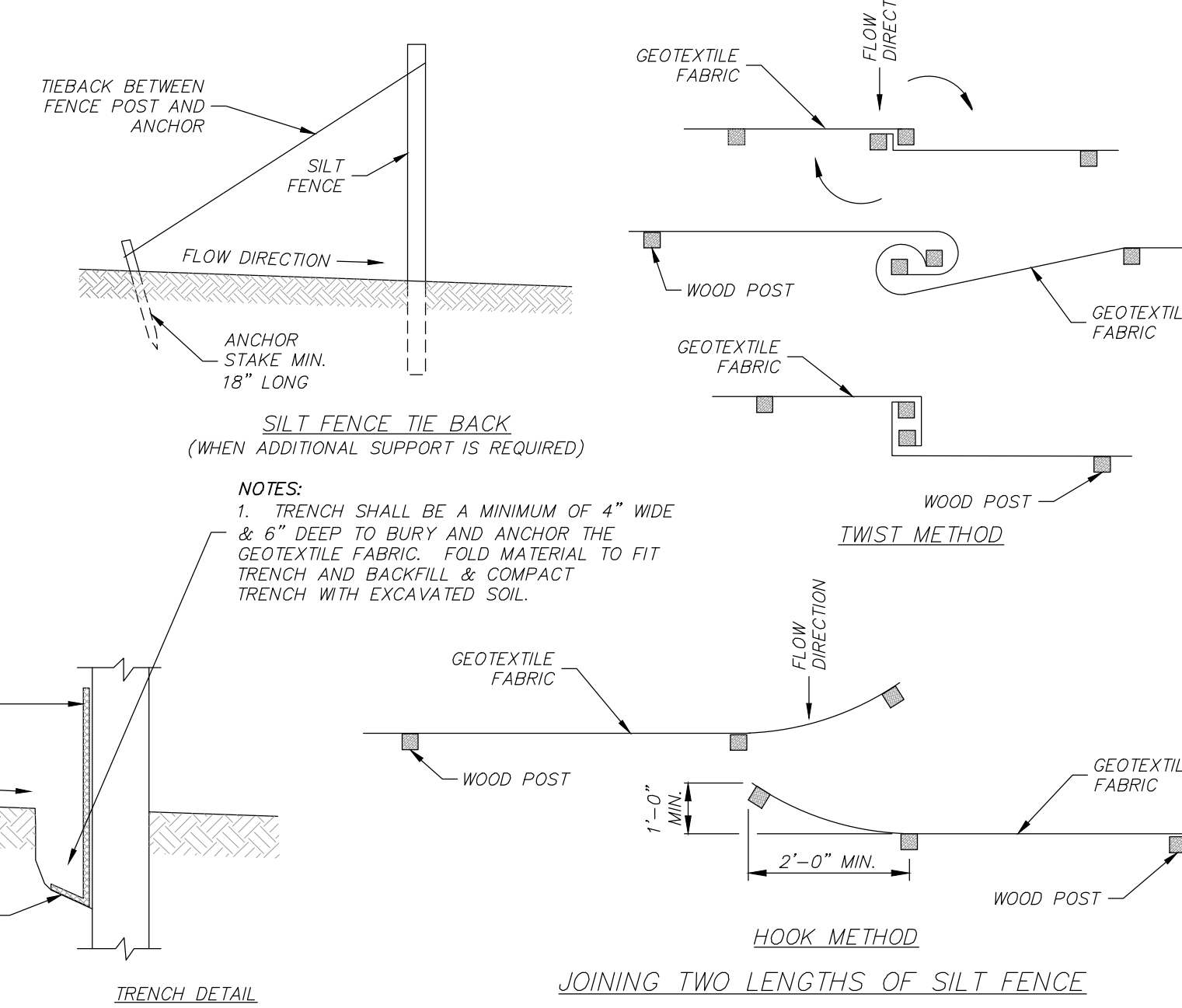
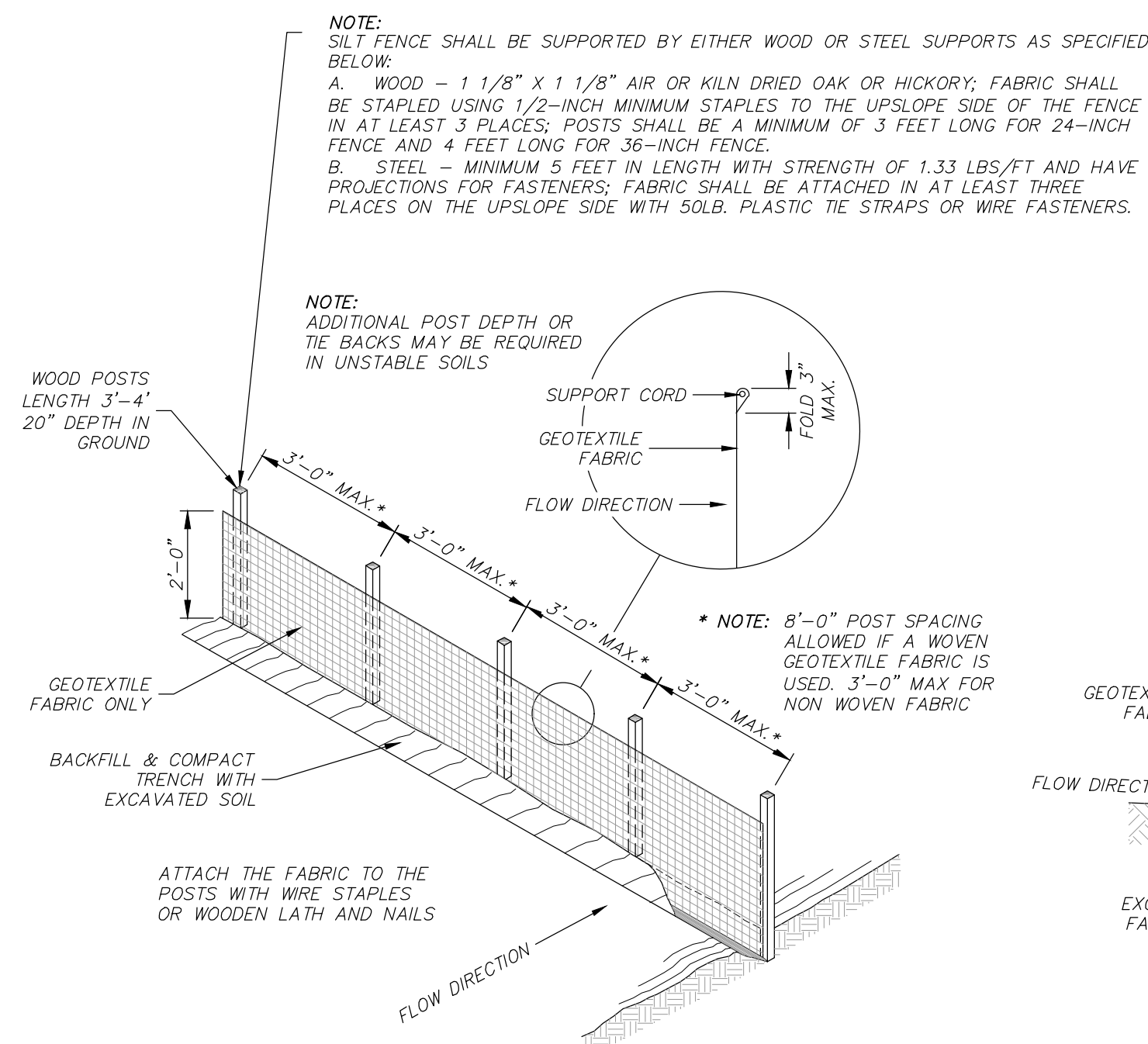
ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A. SMITH, INC.

DESCRIPTION	
DATE	
16745 W. Bluemound Road Brookfield, WI 53005-5938 (262) 781-1000 CREATIVITY BEYOND ENGINEERING Brookfield, WI Milwaukee, WI Appleton, WI Madison, WI Cedarburg, WI Naperville, IL Irvine, CA	
CENTRAL DISPOSAL CITY OF WAUKESHA, WI	UTILITY PLAN
© COPYRIGHT 2024 R.A. Smith, Inc. DATE: 02/26/2024 SCALE: 1" = 20' JOB NO. 3230241 PROJECT MANAGER: ROBERT J. HARLEY, P.E. DESIGNED BY: CBW CHECKED BY: RJH SHEET NUMBER C401	

- NOTES:**
- SILT FENCE INSTALLATION AND MATERIALS SHALL CONFORM TO WDMR CONSERVATION STANDARD 1056
 - SILT FENCE SHALL BE PLACED ON THE CONTOUR AND NOT PERPENDICULAR TO THE CONTOUR. THE ENDS SHALL BE EXTENDED UPSLOPE TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE FENCE.
 - WHEN SILT FENCE IS INSTALLED ON A SLOPE, THE PARALLEL SPACING SHALL NOT EXCEED THE REQUIREMENTS IN THE TABLE BELOW:

SLOPE	FENCE SPACING
< 2%	100 FEET
2 TO 5%	75 FEET
5 TO 10%	50 FEET
10 TO 33%	25 FEET
> 33%	20 FEET

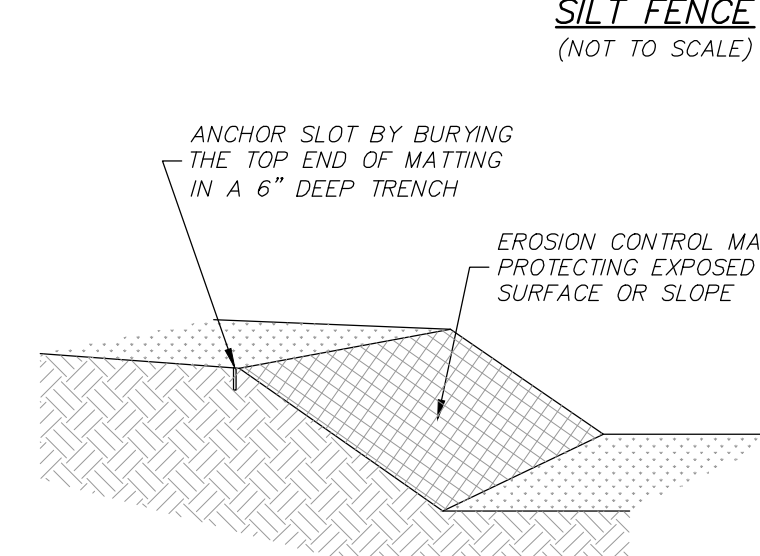
- INSTALLED SILT FENCES SHALL BE MINIMUM 14 INCHES HIGH AND A MAXIMUM OF 28 INCHES IN HEIGHT MEASURED FROM THE INSTALLED GROUND ELEVATION.
- A MINIMUM OF 20 INCHES OF THE POST SHALL EXTEND INTO THE GROUND AFTER INSTALLATION.
- SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8 INCHES OF THE FABRIC IN A 4-INCH TRENCH WIDE BY 6-INCH DEEP TRENCH, OR 6-INCH V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCH SHALL BE BACKFILLED AND COMPACTED. TRENCHES SHALL NOT BE EXCAVATED WIDER THAN NECESSARY FOR PROPER INSTALLATION.
- CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS:
 - TWIST METHOD—OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES.
 - HOOK METHOD—HOOK THE END OF EACH SILT FENCE LENGTH.
- SILT FENCE SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD.
- DAMAGED OR DECOMPOSED FENCES, UNDERCUTTING, OR FLOW CHANNELS AROUND THE END OF BARRIERS SHALL BE REPAIRED OR CORRECTED.
- SEDIMENT SHALL BE PROPERLY DISPOSED OF ONCE THE DEPOSITS REACH ONE HALF THE HEIGHT OF THE FENCE.
- SILT FENCES SHALL BE REMOVED ONCE THE DISTURBED AREA IS PERMANENTLY STABILIZED AND IS NO LONGER SUSCEPTIBLE TO EROSION.



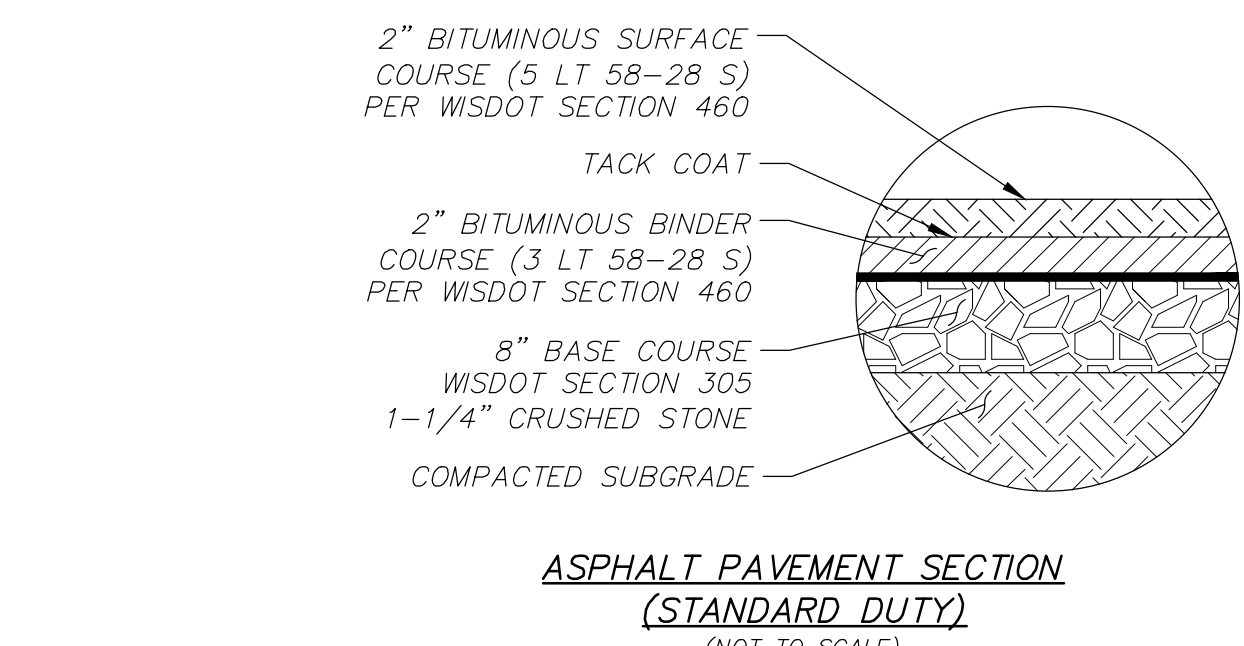
- NOTES:**
- TRACKING PAD:**
 - THE TRACKING PAD SHALL BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE SITE.
 - THE AGGREGATE FOR THE TRACKING PAD SHALL BE HARD, DURABLE, ANGULAR STONE OR RECYCLED CONCRETE MEETING THE GRADATION OF TABLE 1 OF THE WISCONSIN DNR TECHNICAL STANDARD 1057, WHERE THIS GRADATION IS NOT AVAILABLE, MEET THE GRADATION IN WISCONSIN DEPARTMENT OF TRANSPORTATION (DOT) 2018 STANDARD SPECIFICATION, SECTION 312, SELECT CRUSHED MATERIAL.
 - THE AGGREGATE SHALL BE PLACED IN A LAYER AT LEAST 12 INCHES THICK, ON SITES WITH A HIGH WATER TABLE, OR WHERE SATURATED CONDITIONS ARE EXPECTED DURING THE LIFE OF THE PRACTICE, STONE TRACKING PADS SHALL BE UNDERLAIN WITH A WISDOT TYPE R GEOTEXTILE FABRIC TO PREVENT MIGRATION OF UNDERLYING SOIL INTO THE STONE.
 - THE TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT. THE TRACKING PAD SHALL BE A MINIMUM OF 50 FEET LONG.
 - SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY FROM TRACKING PADS OR CONVEYED UNDER AND AROUND THEM BY USING A VARIETY OF PRACTICES, SUCH AS CULVERTS, WATER BARS, OR OTHER SIMILAR PRACTICES.
 - TIRE WASHING:**

IF CONDITIONS ON THE SITE ARE SUCH THAT THE SEDIMENT IS NOT REMOVED FROM VEHICLE TIRES BY THE TRACKING PAD, THEN TIRES SHALL BE WASHED UTILIZING PRESSURIZED WATER BEFORE ENTERING A PUBLIC ROAD.

 - THE WASHING STATION SHALL BE LOCATED ON-SITE ON AN AREA THAT IS STABILIZED AND DRAINS INTO A SUITABLE SEDIMENT TRAPPING OR SETTLING DEVICE.
 - THE WASH RACK SHALL CONSIST OF A HEAVY GRATING OVER A LOWERED AREA. THE RACK SHALL BE STRONG ENOUGH TO SUPPORT THE VEHICLES THAT WILL CROSS IT.
 - MAINTENANCE**
 - ROCKS LODGED BETWEEN THE TIRES OF DUAL WHEEL VEHICLES SHALL BE REMOVED PRIOR TO LEAVING THE CONSTRUCTION SITE.
 - TRACKING PADS AND TIRE WASHING STATIONS SHALL, AT A MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD.
 - THE TRACKING PAD PERFORMANCE SHALL BE MAINTAINED BY SCRAPING OR TOP-DRESSING WITH ADDITIONAL AGGREGATE.
 - A MINIMUM 12-INCH THICK PAD SHALL BE MAINTAINED.

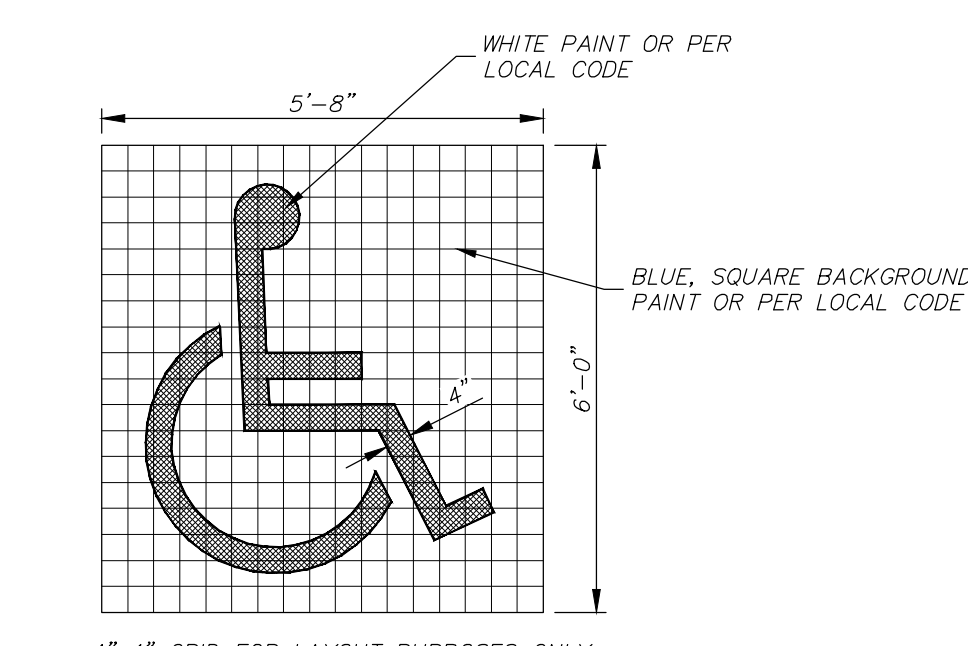
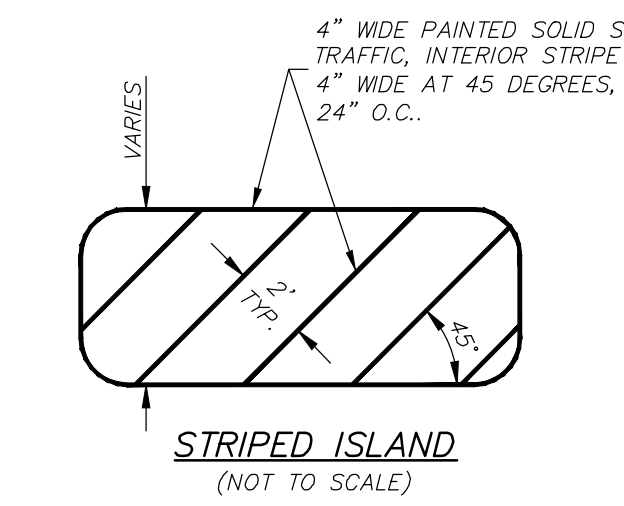
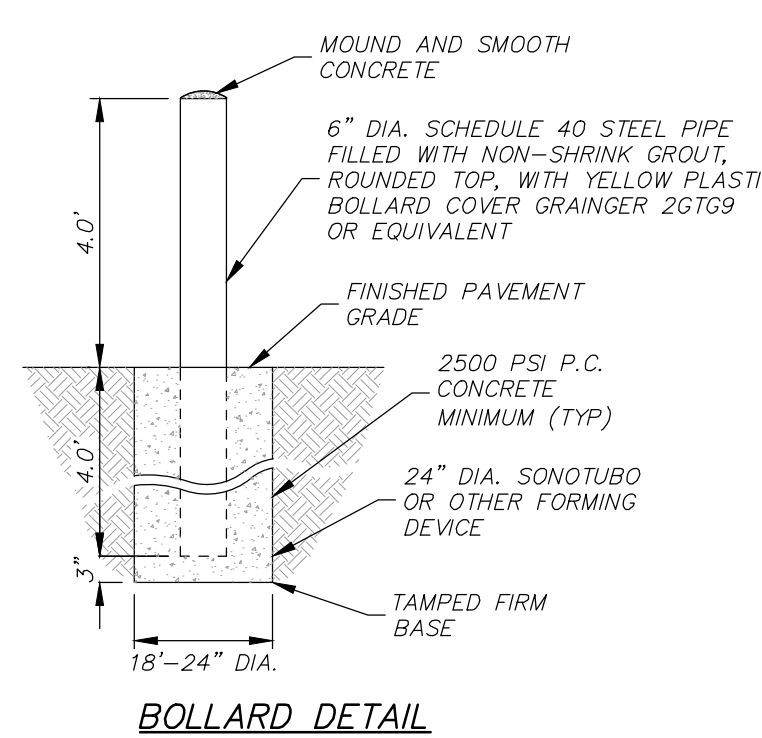


- NOTES:**
- PRIOR TO THE INSTALLATION OF ANY EROSION CONTROL MATTING, ALL ROCKS, DIRT CLODS, STUMPS, ROOTS, TRASH AND ANY OTHER OBSTRUCTIONS WHICH WOULD PREVENT THE MAT FROM LAYING IN DIRECT CONTACT WITH THE SOIL SHALL BE REMOVED.
 - EROSION CONTROL MATTING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 628 OF THE WISCONSIN DOT STANDARD SPECIFICATIONS, DNR TECHNICAL STANDARD 1052 (NON CHANNEL APPLICATIONS), DNR TECHNICAL STANDARD 1053 (CHANNEL APPLICATIONS), AND LATEST MANUFACTURER SPECIFICATIONS, ESPECIALLY NOTING REQUIRED STAPLE PATTERNS AND ANCHOR TRENCH REQUIREMENTS.
 - INSTALLATION PROCEDURES MUST INSURE THAT THE MAT WILL REMAIN IN CONTACT WITH THE SOIL.
 - THE MATTING SHALL BE ANCHORED PER MANUFACTURER REQUIREMENTS.
 - THE MATTING SHALL BE ANCHORED TO THE GROUND PER MANUFACTURER REQUIREMENTS.
 - MATTED AREAS MUST BE INSPECTED ON A WEEKLY BASIS, AND AFTER EACH SIGNIFICANT RAINFALL. BARE SPOTS, MISSING OR LOOSENED MATTING MUST BE IMMEDIATELY REPLACED AND/OR RE-ANCHORED.
 - FOR CHANNEL APPLICATIONS, EXTEND MAT UPSLOPE ONE-FOOT MINIMUM VERTICALLY FROM DITCH BOTTOM OR SIX-INCHES HIGHER THAN DESIGN FLOW, WHICHEVER IS GREATER.



NOTE: ALL PAVEMENT SECTIONS ARE FOR REPRESENTATIVE PURPOSES ONLY. REFER TO GEOTECHNICAL REPORT AND GEOTECHNICAL ENGINEER FOR PAVEMENT SECTIONS TO BE CONSTRUCTED.

- NOTES:**
- ALL SIGNS SHALL BE MOUNTED TO POSTS BY MEANS OF 5/16\"/>
 - ALL POSTS SHALL HAVE A GALVANIZED CAP OR COVER PLATE WELDED TO TOP OF POST.

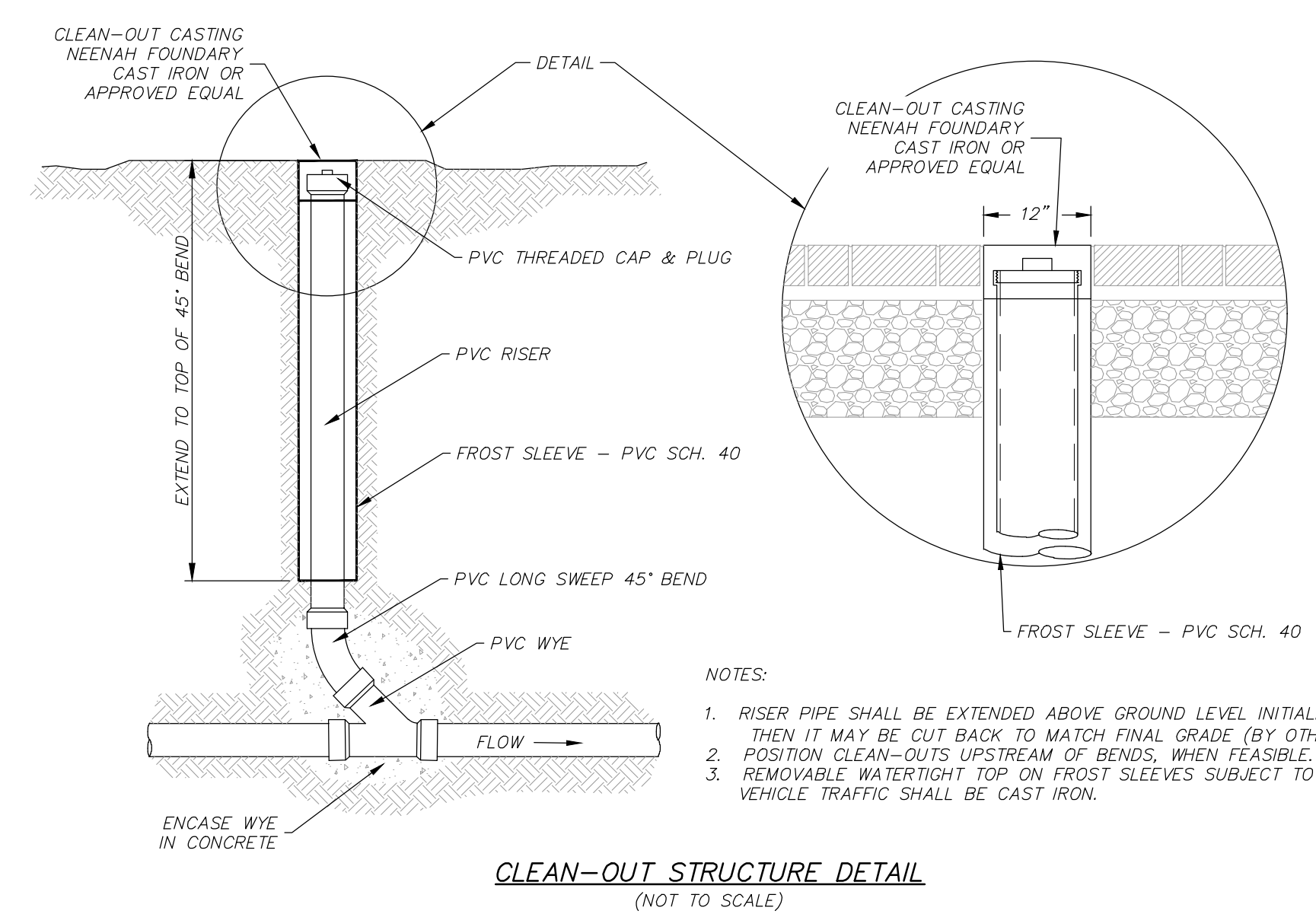
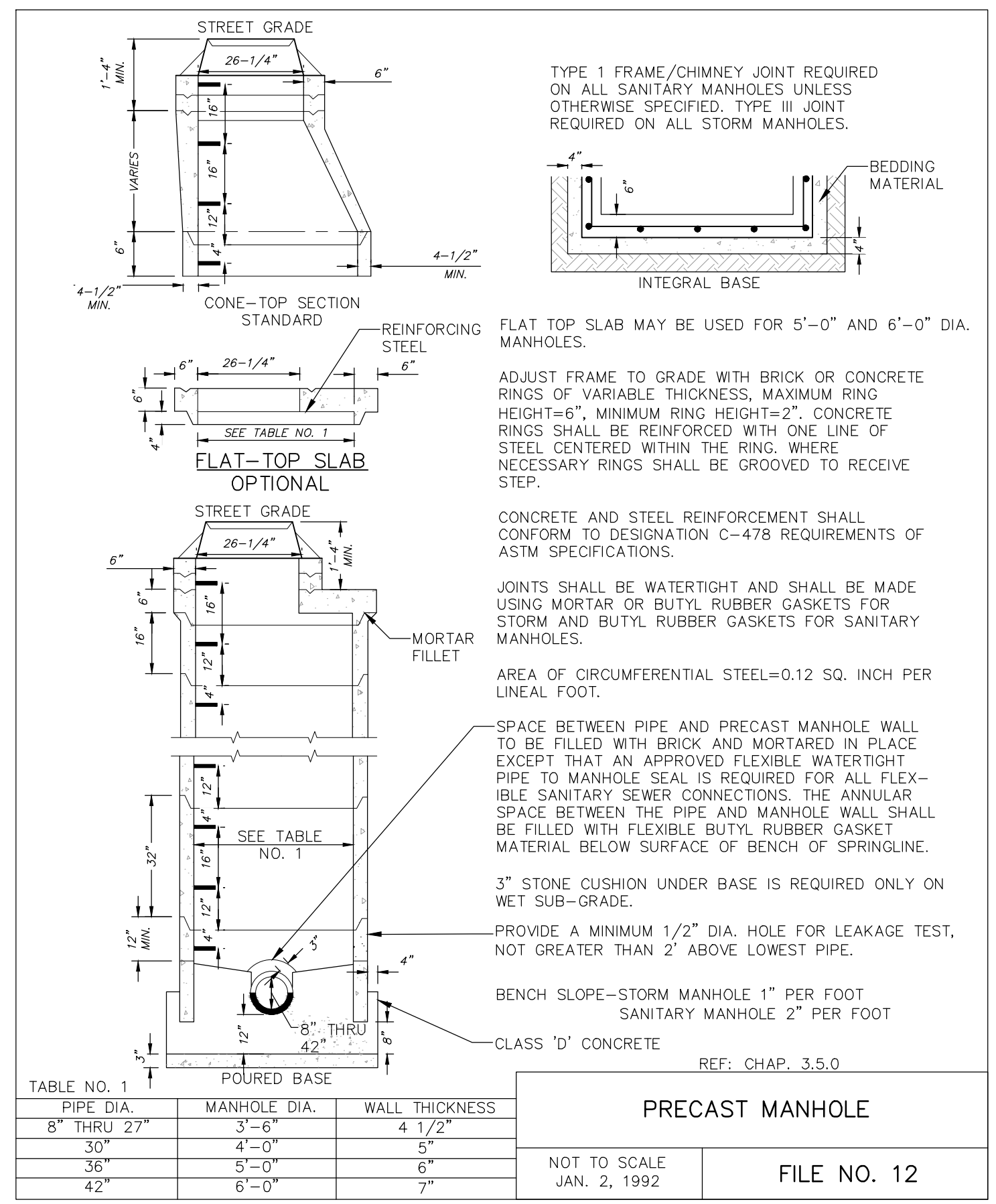
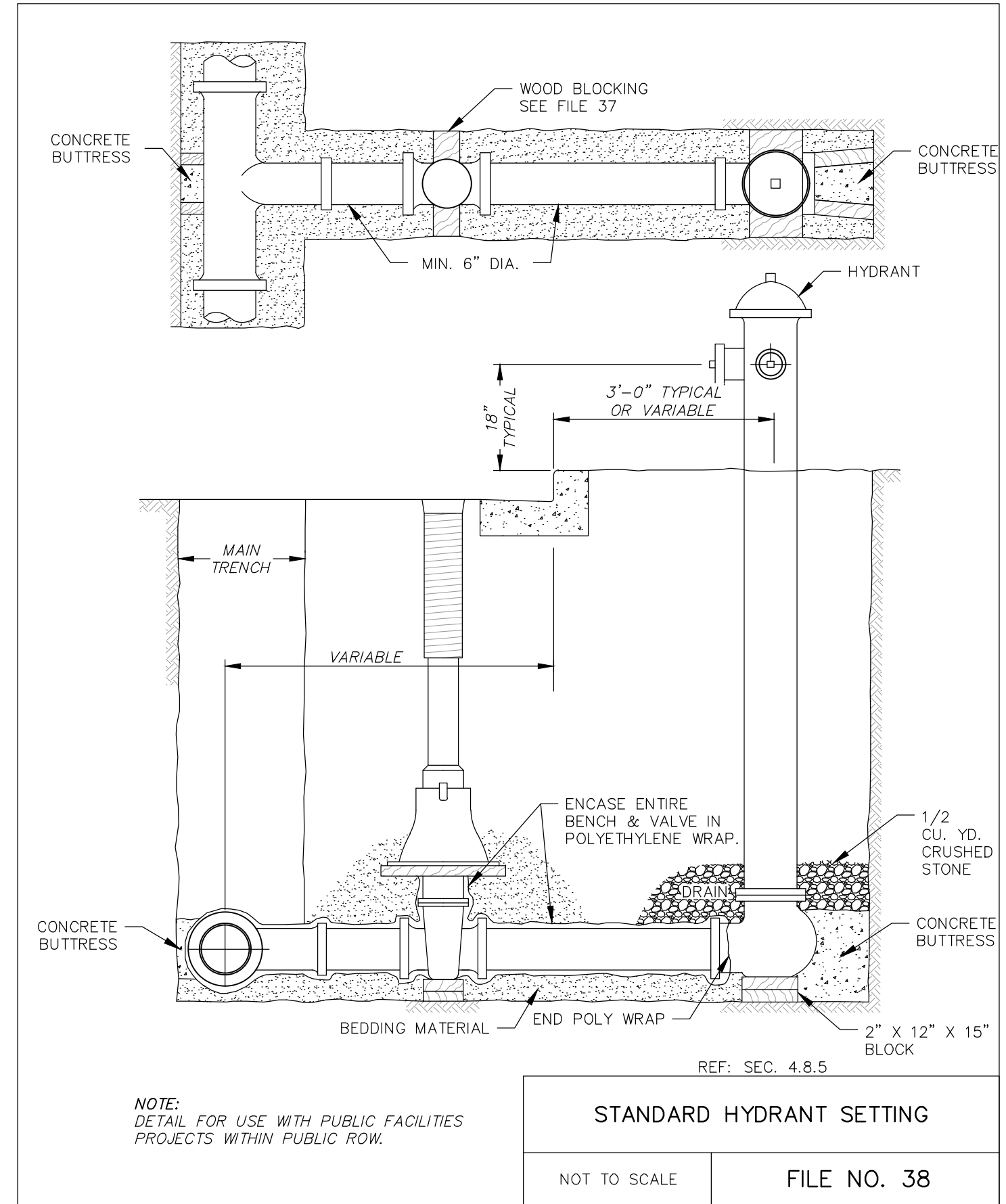
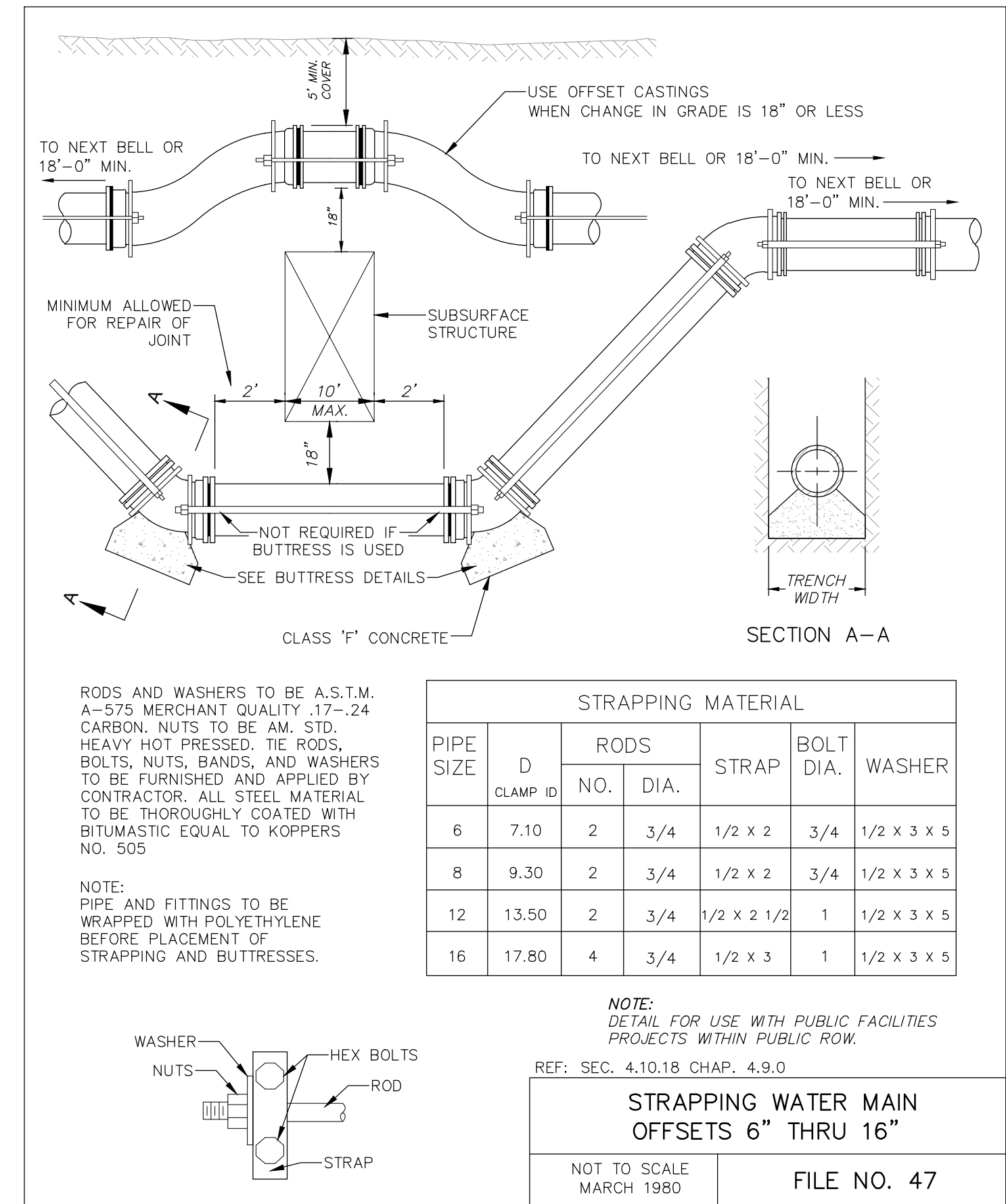
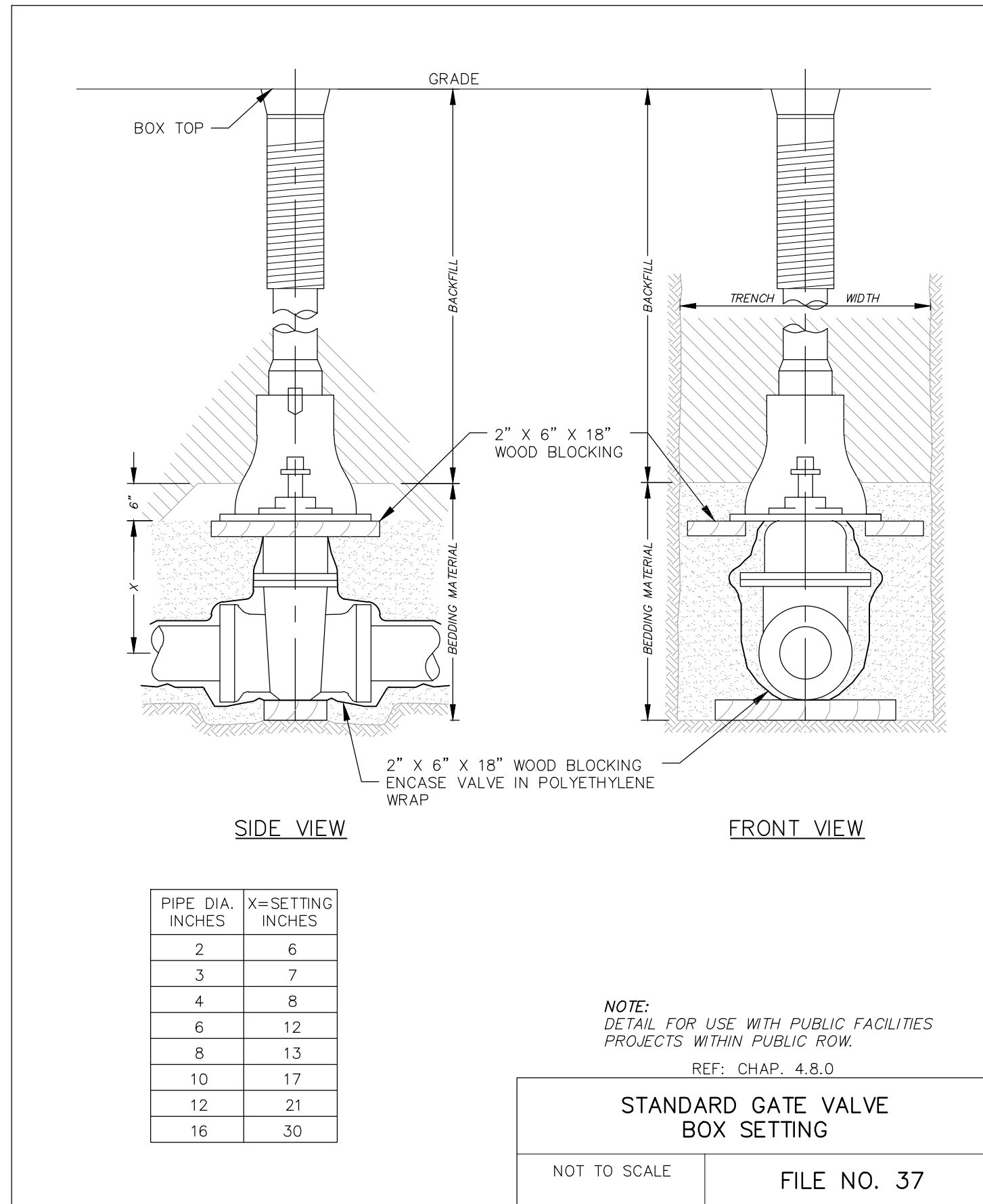


4\"/>

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.

ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A. SMITH, INC.

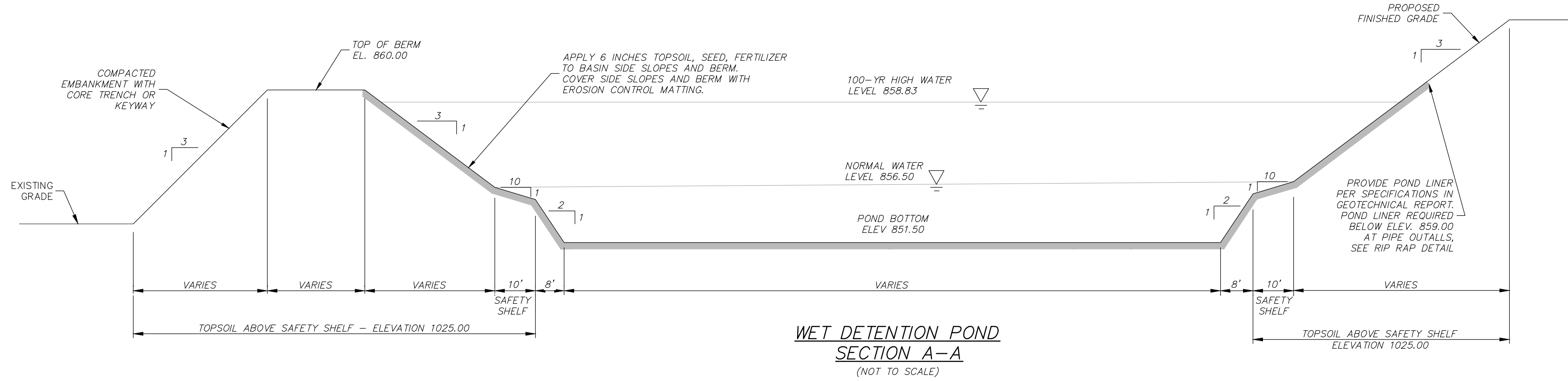
DESCRIPTION	
DATE	
16745 W. Bluemound Road Brookfield, WI 53005-5938 (262) 781-1000 rasmith.com raSmith CREATIVITY BEYOND ENGINEERING	
Brookfield, WI Milwaukee, WI Appleton, WI Madison, WI Cedarburg, WI Neenah, WI Irvine, CA	
CENTRAL DISPOSAL CITY OF WAUKESHA, WI	PROJECT DETAILS
© COPYRIGHT 2024 R.A. Smith, Inc. DATE: 02/26/2024 SCALE: 1\"/>	
PROJECT MANAGER: ROBERT J. HARLEY, P.E. DESIGNED BY: CBW CHECKED BY: RJH	
SHEET NUMBER C500	



DESCRIPTION	
DATE	
16745 W. Bluemound Road Brookfield, WI 53005-5938 (262) 781-1000 rasmith.com	
CREATIVITY BEYOND ENGINEERING	
Brookfield, WI Milwaukee, WI Appleton, WI Madison, WI Cedarburg, WI Neenah, IL Irvine, CA	
CENTRAL DISPOSAL CITY OF WAUKESHA, WI	UTILITY DETAILS
© COPYRIGHT 2024 R.A. Smith, Inc. DATE: 02/26/2024 SCALE: 1"=0" = 1'-0" JOB NO. 3230241 PROJECT MANAGER: ROBERT J. HARLEY, P.E. DESIGNED BY: CBW CHECKED BY: RJH SHEET NUMBER C501	

MANHOLE STRUCTURE DETAIL PER FILE NO. 12, STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN (NOT TO SCALE)

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.
 ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A. SMITH, INC.

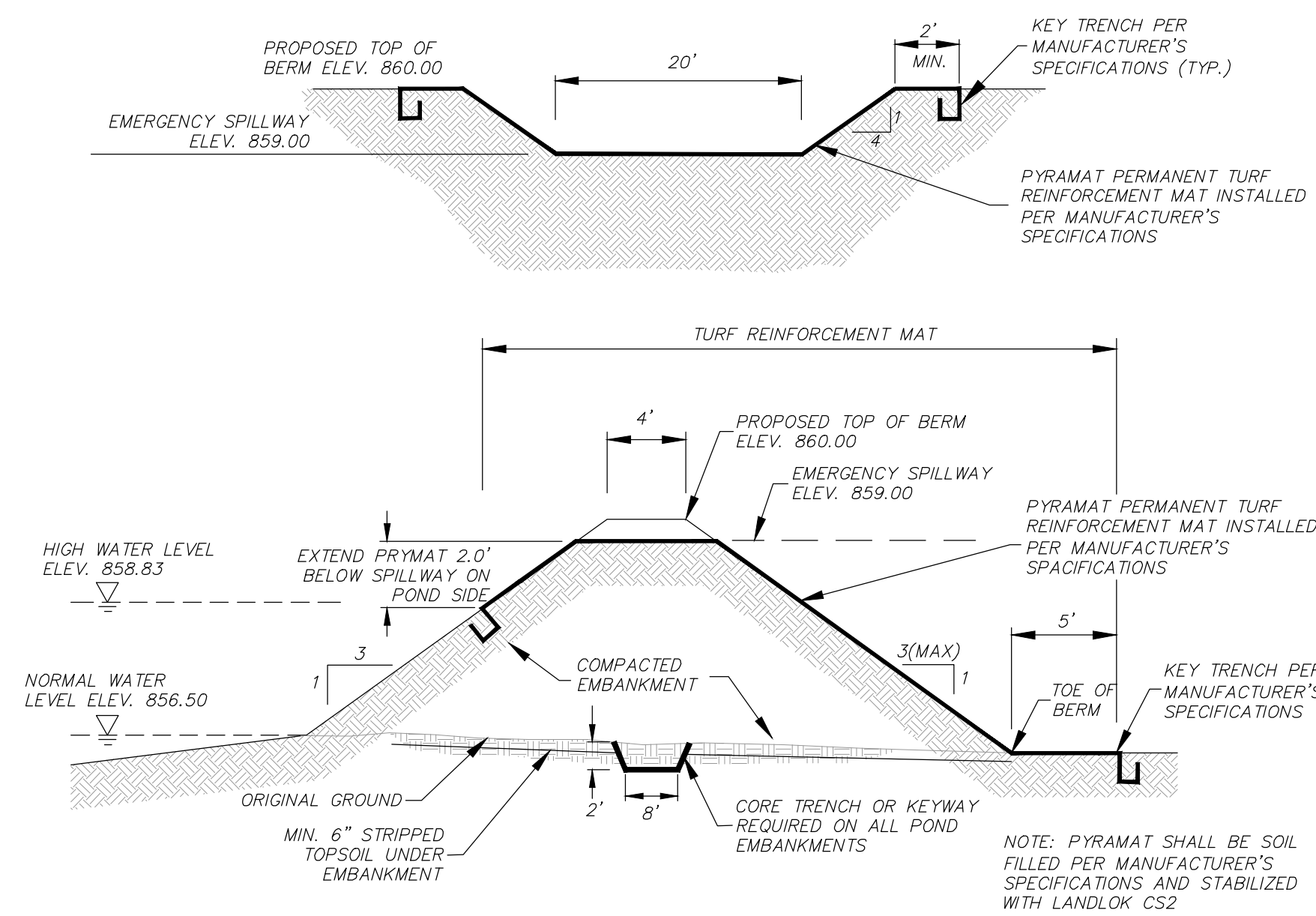


POND CLAY LINER & EMBANKMENT

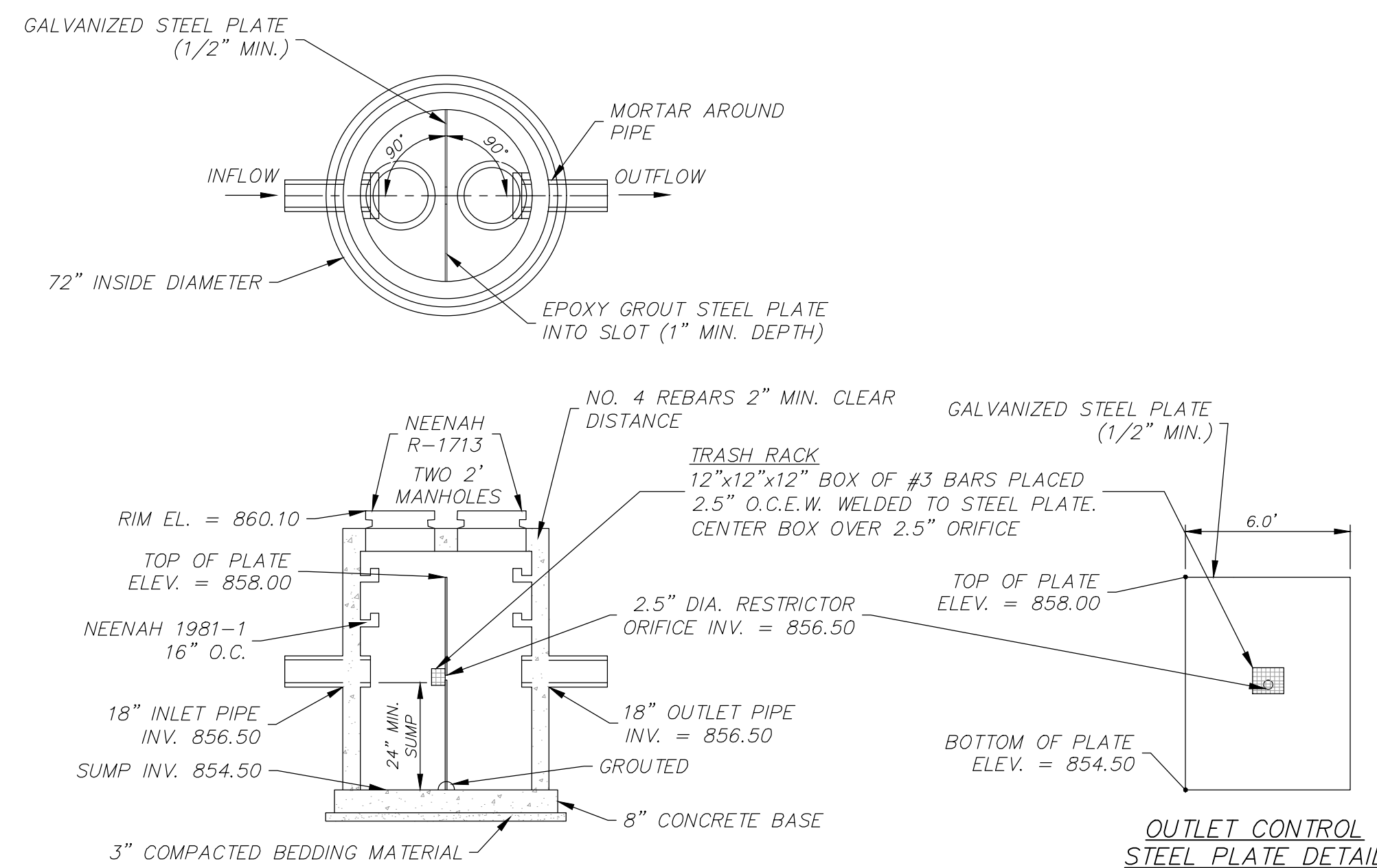
THE ENTIRE POND AREA, FROM THE BASE OF THE EMERGENCY SPILLWAY TO THE POND BOTTOM SHALL BE UNDERCUT, SCARIFIED AND COMPACTED. THE UNDERCUT AREA SHALL THEN BE FILLED WITH CLAY AND COMPACTED AS CLAY LINER. ALL MATERIAL USED FOR EMBANKMENT FOR STORM WATER PONDS SHALL BE PLACED AND COMPACTED IN STRICT CONFORMANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.

GEOTECHNICAL TESTING & SUPERVISION

A GEOTECHNICAL ENGINEER SHALL SUPERVISE THE EXCAVATION AND CONSTRUCTION OF ALL STORM WATER PONDS AND EMBANKMENTS. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT.



PROPOSED EMERGENCY SPILLWAY DETAIL
N.T.S.



- NOTES:**
- STRUCTURE SHALL BE CONSTRUCTED CONFORMING TO THE REQUIREMENTS OF ASTM C-478.
 - REINFORCING STEEL NOT SHOWN

POND OUTLET CONTROL STRUCTURE DETAIL
(NOT TO SCALE)

DATE	DESCRIPTION

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



Brookfield, WI | Milwaukee, WI | Appleton, WI | Madison, WI
Cedarburg, WI | Waukesha, WI | Irvine, CA

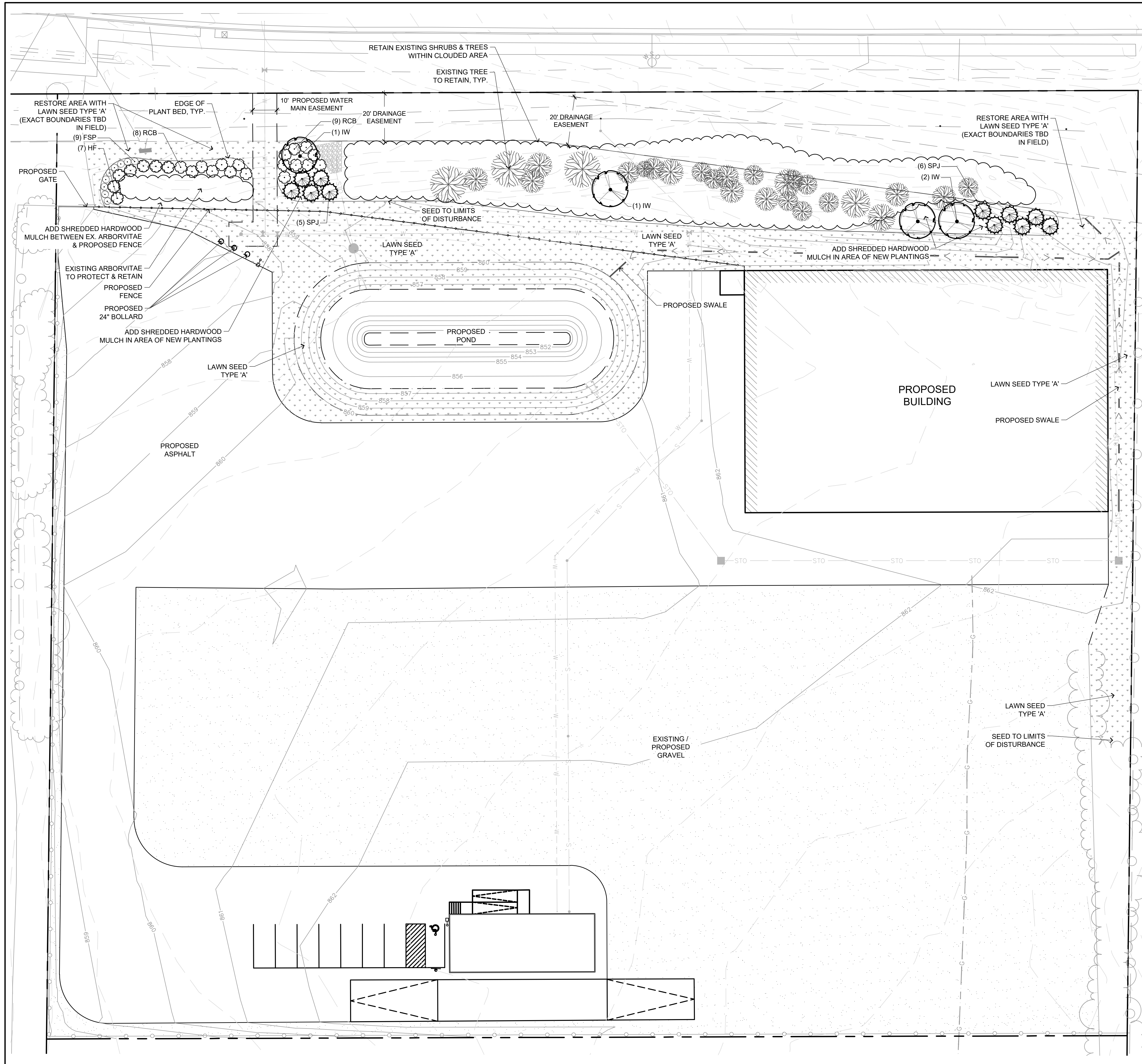
**CENTRAL DISPOSAL
CITY OF WAUKESHA, WI
STORMWATER DETAILS**

© COPYRIGHT 2024 R.A. Smith, Inc.
DATE: 02/26/2024
SCALE: 1'-0" = 1'-0"
JOB NO. 3230241
PROJECT MANAGER: ROBERT J. HARLEY, P.E.
DESIGNED BY: CBW
CHECKED BY: RJH

SHEET NUMBER
C502

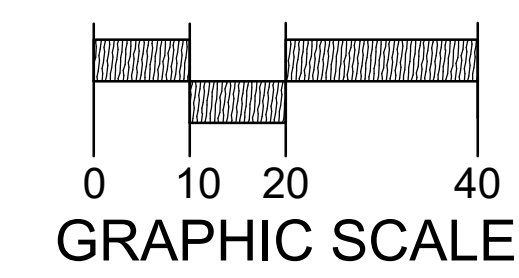
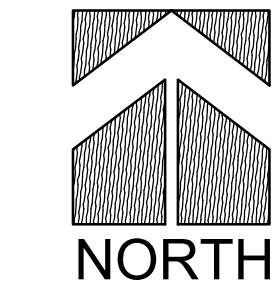
R.A. SMITH, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A. SMITH, INC.
ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A. SMITH, INC.

DIVISION 1 – GENERAL REQUIREMENTS	DIVISION 31 – EARTHWORK	DIVISION 32 – EXTERIOR IMPROVEMENTS	DIVISION 33 – UTILITIES	DESCRIPTION
<p>01 41 00 – REGULATORY REQUIREMENTS</p> <p>1. THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED:</p> <ol style="list-style-type: none"> WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) STORM WATER TECHNICAL STANDARDS WISCONSIN EROSION CONTROL PROJECT ACCEPTABILITY LIST STANDARD SPECIFICATIONS FOR STORM WATER CONSTRUCTION IN WISCONSIN (SSSWCW) WISCONSIN ADMINISTRATIVE CODE, SECTIONS 382-187 WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION FEDERAL HIGHWAY ADMINISTRATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD) UNITED STATES DEPARTMENT OF JUSTICE ADA STANDARDS UNITED STATES DEPARTMENT OF TRANSPORTATION ADA STANDARDS FOR TRANSPORTATION FACILITIES MUNICIPALITY STANDARDS COUNTY DEVELOPMENT STANDARDS <p>2. THE OWNER, ENGINEER AND MUNICIPALITY SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF PERFORMING ANY CONSTRUCTION ACTIVITIES.</p> <p>3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS AND FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.</p> <p>4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.</p> <p>5. SHOP DRAWINGS AND/OR MANUFACTURER'S PRODUCT DATA SUBMITTALS ARE REQUIRED ONLY IF THE PRODUCT OR METHOD OF CONSTRUCTION IS DIFFERENT FROM THAT SPECIFIED OR IF REQUIRED BY THE MUNICIPAL ENGINEER.</p> <ol style="list-style-type: none"> ALL DOCUMENTS SUBMITTED FOR REVIEW SHALL HAVE THE SPECIFIC MATERIAL, PART, SIZE, ETC. HIGHLIGHTED IN SOME FASHION, EXAMPLE: A FITTING CUT SHEET HAS MULTIPLE PRESSURE RATING FOR DIFFERENT SIZE BENDS, HIGHLIGHT THE PRESSURE CLASS & SIZE TO BE USED ON PROJECT. ALL SUBMITTALS NOT PROPERLY IDENTIFYING THE SPECIFIC MATERIAL BEING USED WILL BE REJECTED. CONTRACTOR SHALL SUBMIT AN EXPLANATION AS TO HOW THE SUBSTITUTION MEETS THE PROPOSED DESIGN (PRODUCT SPECIFICATION SHEETS WITHOUT EXPLANATION WILL NOT BE ACCEPTED) TO THE OWNER'S REPRESENTATIVE OR ENGINEER FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT PROCEED UNTIL THE OWNER'S APPROVAL IS GIVEN. IN PROJECT SCHEDULING CONTRACTOR SHALL ACCOUNT FOR 5 WORKING DAYS FOR SUBMITTAL REVIEW. IN THE EVENT OF A SUBSTITUTION APPROVED, THE OWNER WILL REQUIRE FROM THE CONTRACTOR A CREDIT REDUCTION FROM THE CONTRACT AMOUNT EQUAL TO ANY SAVINGS IN MATERIAL COST RESULTING FROM USE OF THE PROPOSED SUBSTITUTE. THE CONTRACTOR SHALL ASSUME COMPLETE AND SOLE RESPONSIBILITY FOR THE QUALITY OF WORK. IF CHANGES OR ADJUSTMENTS ARE RECOMMENDED BY THE CONTRACTOR, THEY MAY BE MADE ONLY UPON WRITTEN APPROVAL OF THE OWNER OR THEIR REPRESENTATIVE. <ol style="list-style-type: none"> ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE OWNER OR THEIR REPRESENTATIVE SHALL RESOLVE ALL QUESTIONS WHICH SHALL ARISE AS TO THE QUALITY AND ACCEPTABILITY OF MATERIALS FURNISHED, WORK PERFORMED, AND WORKMANSHIP. AN INTERPRETATION OF THE PLANS AND SPECIFICATIONS HE SHALL DETERMINE THE AMOUNT OF WORK PERFORMED AND MATERIALS FURNISHED. FAILURE OR NEGLIGENCE ON THE PART OF THE OWNER OR THEIR REPRESENTATIVE TO CONDEMN OR REJECT SUBSTANDARD OR INFERIOR WORK OR MATERIALS SHALL NOT BE CONSTRUED TO IMPLY AN ACCEPTANCE OF SUCH WORK OR MATERIALS, IF IT BECOMES EVIDENT AT ANY TIME PRIOR TO THE FINAL ACCEPTANCE OF THE WORK BY THE OWNER. NEITHER SHALL IT BE CONSTRUED AS BARRENING THE OWNER, AT ANY SUBSEQUENT TIME, FROM THE RECOVERY OF DAMAGES OR OF SUCH A SUM OF MONEY AS MAY BE NEEDED TO BUILD AROUND ALL PORTIONS OF THE SUBSTANDARD OR INFERIOR WORK OR REPLACEMENT OF IMPROPER MATERIALS WHEREVER FOUND. INSPECTORS EMPLOYED BY THE OWNER SHALL BE AUTHORIZED TO INSPECT ALL WORK DONE AND ALL MATERIAL FURNISHED. SUCH INSPECTION MAY EXTEND TO ALL OR ANY PART OF THE WORK AND TO THE PREPARATION, FABRICATION OR MANUFACTURE OF THE MATERIALS TO BE USED. THE INSPECTOR IS NOT AUTHORIZED TO REVOKE, ALTER OR WAIVE ANY REQUIREMENTS OF THE SPECIFICATIONS, NOR IS HE AUTHORIZED TO APPROVE OR ACCEPT ANY PORTION OF THE COMPLETED PROJECT. HE SHALL CALL THE ATTENTION OF THE CONTRACTOR TO ANY FAILURE OF THE WORK OR MATERIALS TO CONFORM TO THE SPECIFICATIONS AND CONTRACT, AND SHALL HAVE THE AUTHORITY TO REJECT MATERIALS. ANY DISPUTE BETWEEN THE CONTRACTOR AND CONTRACTOR SHALL BE REFERRED TO THE OWNER OR THEIR REPRESENTATIVE. ANY ADVICE WHICH THE INSPECTOR MAY GIVE THE CONTRACTOR SHALL IN NO WAY BE CONSTRUED AS BINDING THE ENGINEER IN ANY WAY OR RELASING THE CONTRACTOR FROM FULFILLING ANY OF THE TERMS OF THE CONTRACT. ALL MATERIALS AND EACH PART OF DETAIL OF THE WORK SHALL BE SUBJECT AT ALL TIMES TO INSPECTION BY THE OWNER OR THE OWNER'S AUTHORIZED REPRESENTATIVE OR THE AUTHORITY HAVING JURISDICTION AND THE CONTRACTOR WILL BE HELD STRICTLY TO THE TRUE INTENT OF THE SPECIFICATIONS IN REGARD TO QUALITY OF MATERIALS, WORKMANSHIP, AND THE DILIGENT EXECUTION OF THE CONTRACT. SUCH INSPECTION MAY INCLUDE MILL, PLANT OR SHOP INSPECTION, AND ANY MATERIAL FURNISHED UNDER THESE SPECIFICATIONS IS SUBJECT TO SUCH INSPECTION. THE OWNER OR THE OWNER'S REPRESENTATIVES SHALL BE ALLOWED ACCESS TO ALL PART OF THE WORK, AND SHALL BE FURNISHED WITH SUCH INFORMATION AND ASSISTANCE BY THE CONTRACTOR AS IS DETERMINED BY THE OWNER OR THE OWNER'S REPRESENTATIVE, TO MAKE A COMPLETE AND DETAILED INSPECTION. ALL WORKMANSHIP SHALL CONFORM TO THE BEST STANDARD PRACTICE. UNLESS OTHERWISE SPECIFIED, THE SPECIFICATIONS OR RECOGNIZED ASSOCIATION OF MANUFACTURERS AND CONTRACTORS OR INDUSTRIAL MANUFACTURERS SHALL BE USED AS GUIDES FOR THE STANDARDS OF WORKMANSHIP. ALL EXPOSED ITEMS OF WORK SHALL PRESENT A NEAT WORKMANLIKE APPEARANCE AND SHALL BE AS TRUE TO SHAPE AND ALIGNMENT AS POSSIBLE TO OBTAIN WITH MEASURING OR LEVELING INSTRUMENTS GENERALLY USED IN THE RESPECTIVE TYPES OF WORK. ITEMS OF WORK SHALL BE SOUND AND FULLY PROTECTED AGAINST DAMAGE AND PREMATURE DETEIORATION. IT IS SPECIFICALLY UNDERSTOOD THAT IN ALL QUESTIONS OF QUALITY AND ACCEPTABILITY OF WORKMANSHIP, THE CONTRACTOR AGREES TO ABIDE BY THE DECISION OF THE OWNER OR THEIR REPRESENTATIVE. ALL MATERIALS AND WORKMANSHIP NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE CONSIDERED AS DEFECTIVE, AND ALL SUCH MATERIALS, WHETHER IN-PLACE OR NOT, SHALL BE REJECTED AND SHALL BE REMOVED FROM THE WORK BY THE CONTRACTOR AT THEIR EXPENSE. UPON FAILURE ON THE PART OF THE CONTRACTOR TO COMPLY WITH ANY ORDER OF THE OWNER RELATIVE TO THE PROVISIONS OF THIS ARTICLE, THE OWNER SHALL HAVE THE AUTHORITY TO REMOVE AND REPLACE SUCH DEFECTIVE MATERIAL AND TO DEDUCT THE COST OF REMOVAL AND REPLACEMENT FROM ANY MONIES DUE OR WHICH MAY BECOME DUE TO THE CONTRACTOR. THE CONTRACTOR SHALL KEEP A LEGIBLE COPY OF THE PLANS, SPECIFICATIONS, AND ALL PERMITS AT THE SITE OF THE WORK AT ALL TIMES. AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE THE OWNER OR THEIR REPRESENTATIVE WITH A MARKED-UP SET OF DRAWINGS SHOWING ALL CHANGES OR VARIATIONS FROM THE ORIGINAL DRAWINGS. THESE CHANGES SHALL BE MADE ON A SET OF FIELD DRAWINGS AS THE WORK TAKES PLACE, AND NOT FROM MEMORY WHEN THE WORK IS DONE. THIS SET OF DRAWINGS SHOULD BE KEPT CLEAN AND IN A LOCATION AT THE SITE WHERE THE OWNER OR THEIR REPRESENTATIVE MAY EXAMINE THEM. THE MARKED-UP DRAWINGS SHALL BE ACCURATE, ARBITRARY MARKINGS ARE OF NO VALUE. CAREFUL MEASUREMENTS SHALL BE MADE TO LOCATE UNDERGROUND EXTERIOR AND UNDERGROUND INTERIOR SEWERS, GAS LINES, WATER LINES, ELECTRICAL CONDUIT AND MISCELLANEOUS UTILITIES. <p>7. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL, TRAFFIC CONTROL PLANS AND PERMITTING FOR ALL WORK TO BE COMPLETED ONSITE OR IN THE PUBLIC RIGHT-OF-WAY.</p>	<p>31 10 00 – SITE CLEARING & DEMOLITION</p> <ol style="list-style-type: none"> WORK SHALL CONSIST OF DEMOLITION, ABANDONMENT, AND REMOVAL OF EXISTING FOUNDATIONS, WALLS, SLABS, FENCES, PIPING, PAVEMENTS, AND OTHER MANMADE ITEMS INTERFERING WITH NEW CONSTRUCTION. WORK SHALL ALSO CONSIST OF CLEARING AND GRUBBING OF TREES, SHRUBS, VEGETATION, ROOTS, STUMPS, RUBBISH, AND OTHER PERSHABLE MATTER INTERFERING WITH NEW CONSTRUCTION. REMOVE EXISTING ABOVE-GRADE AND BELOW-GRADE MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. CALL 811 TO NOTIFY UTILITY PROVIDERS, AND REQUEST FIELD LOCATION OF EXISTING UTILITIES WITHIN PROJECT LIMITS PRIOR TO ANY CONSTRUCTION RELATED ACTIVITIES. INSTALL PERIMETER FENCING AS INDICATED TO COMMENCING ANY CONSTRUCTION RELATED ACTIVITY. CLEARLY IDENTIFY ALL VEGETATION TO BE PRESERVED AND/OR RELOCATED PRIOR TO CLEARING AND GRUBBING. PROTECT EXISTING IMPROVEMENTS TO REMAIN DURING CONSTRUCTION. ANY DAMAGED IMPROVEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION, OR AS OTHERWISE ACCEPTABLE TO THE OWNER. REMOVE EXISTING ABOVE-GRADE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. SAWCUT ALL PAVEMENT TO BE REMOVED IN STRAIGHT LINES TO FULL DEPTH. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS. BREAK UP CONCRETE SLABS THAT ARE 2 FEET OR MORE BELOW PROPOSED SUBGRADE TO PERMIT DRAINAGE TO REMAIN. DISCONNECT AND SEAL/CAP EXISTING UTILITIES TO BE REMOVED, RELOCATED, OR ABANDONED IN ACCORDANCE WITH REQUIREMENTS OF UTILITY PROVIDERS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING NECESSARY REMOVAL AND/OR RELOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS. DO NOT INTERRUPT UTILITY SERVICE TO EXISTING FACILITIES UNLESS PERMITTED BY THE OWNER. VOIDS LEFT BY REMOVALS SHALL BE LEVELED TO PREVENT PONDING OF WATER. REMOVE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS, TRASH, AND DEBRIS FROM THE PROJECT SITE. RUBBISH, TRASH, GARBAGE, AND LITTER SHALL BE PLACED IN SEALED CONTAINERS THROUGHOUT CONSTRUCTION. <p>31 20 00 – EARTH MOVING</p> <ol style="list-style-type: none"> WORK SHALL CONSIST OF STRIPPING AND STORAGE OF TOPSOIL, EXCAVATION, EMBANKMENT, IMPORTING OR EXPORTING MATERIAL TO ACHIEVE LAND BALANCE, COMPACTION, FINISH GRADING, SUBGRADE PREPARATION, AND REPLACEMENT OF TOPSOIL. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. ALL EARTHWORK SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND SUBSEQUENT RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION BASED ON FIELD CONDITIONS, AND THESE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER SHALL GOVERN. EXCAVATE TO SUBGRADE REGARDLESS OF THE CHARACTER OF SURFACE AND SUBSURFACE CONDITIONS ENCOUNTERED. EXCAVATED MATERIAL MAY INCLUDE ROCK AND UNCLASSIFIED OBSTRUCTIONS, WHICH IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE QUANTITY OF EXCAVATION. EXISTING FOUNDATIONS, BUILDING REMNANTS, AND UNSATISFACTORY MATERIAL SHALL BE COMPLETELY REMOVED FROM WITHIN AND A MINIMUM OF 10 FEET BEYOND BUILDING PAD AREAS. ANY RELATED EXCAVATION SHALL BE BACKFILLED WITH COMPACTED ENGINEERED FILL MATERIAL. EXISTING FOUNDATIONS, BUILDING REMNANTS, AND UNSATISFACTORY MATERIAL SHALL BE REMOVED TO A MINIMUM OF 2 FEET BELOW PROPOSED SUBGRADE WITHIN GREENSPACE AND PAVEMENT AREAS. ANY RELATED EXCAVATION SHALL BE BACKFILLED WITH COMPACTED ENGINEERED FILL MATERIAL. AREAS SHALL BE GRADED TO WITHIN 1 INCH, MORE OR LESS, OF PROPOSED SUBGRADE. DEVIATIONS SHALL NOT BE CONSISTENT IN ONE DIRECTION. DISKING, HARROWING, AND AERATION TECHNIQUES SHALL BE USED TO DRY SUBGRADE PRIOR TO PROOF ROLLING. IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER, PROOF ROLL SUBGRADE BEFORE BUILDING PAD AND PAVEMENT AREAS DURING DRY WEATHER WITH A FULLY LOADED TANDUM AXLE DUMP TRUCK WHERE COHESIVE SOILS ARE PREDOMINANT, AND WITH A SMOOTH DRUMMED VIBRATORY ROLLER WHERE GRANULAR SOILS ARE PREDOMINANT. SUBGRADE WHICH IS OBSERVED TO RUT OR DEFLECT EXCESSIVELY SHALL BE UNDERGUT IN ACCORDANCE WITH RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. DO NOT PROOF ROLL WET OR SATURATED SUBGRADE. THE CONTRACTOR SHALL MAINTAIN POSITIVE SITE DRAINAGE THROUGHOUT CONSTRUCTION. THIS MAY INCLUDE EXCAVATION OF TEMPORARY DITCHES OR PUMPING TO ALLEVATE WATER PONDING, SURFACE WATER AND GROUNDWATER SHALL BE PREVENTED FROM ENTERING EXCAVATIONS, PONDING ON PREPARED SUBGRADES, AND FLOODING PROJECT SITE AND/OR SURROUNDING AREAS. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ALL EARTHWORK COMPUTATIONS AND FOR ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SPOIL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT. TOPSOIL REPLACEMENT DEPTH SHALL BE AS CALLED OUT ON THE CIVIL OR LANDSCAPE PLANS, OR A MINIMUM OF FOUR INCHES IF NOT CALLED OUT ON LANDSCAPE PLAN. TOPSOIL IN PARKING ISLANDS: ALL PARKING LOT ISLANDS TO BE BACKFILLED WITH TOPSOIL TO A MINIMUM DEPTH OF 18" BY GRADING CONTRACTOR TO INSURE LONG TERM PLANT HEALTH. GROW ALL PLANTING ISLANDS A MINIMUM OF 6" TO PROVIDE PROPER DRAINAGE, UNLESS OTHERWISE SPECIFIED. <p>31 25 00 – EROSION & SEDIMENTATION CONTROLS</p> <ol style="list-style-type: none"> WORK SHALL CONSIST OF INSTALLATION OF TEMPORARY AND PERMANENT PRACTICES FOR SEDIMENTATION CONTROL, EROSION CONTROL, SLOPE PROTECTION, AND REMOVAL OF PRACTICES UPON FINAL SITE STABILIZATION. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. INSTALLATION AND MAINTENANCE OF PRACTICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE WDNR TECHNICAL STANDARD, OR THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK IF A TECHNICAL STANDARD IS NOT AVAILABLE. ALL PRACTICES SHALL BE INSTALLED PRIOR TO COMMENCING ANY LAND DISTURBING CONSTRUCTION RELATED ACTIVITY. EARTHWORK ASSOCIATED WITH INSTALLATION OF PRACTICES MAY OCCUR CONCURRENTLY. ALL PRACTICES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND WARRANTY PERIOD IN CONFORMANCE WITH PERMIT REQUIREMENTS. ALL PRACTICES SHALL BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL GREATER THAN 0.5 INCHES. THE CONTRACTOR IS REQUIRED TO PERFORM INSPECTIONS, KEEP A LOG, AND CONDUCT REPAIRS AS NEEDED. ALL DISTURBED AREAS SHALL DRAIN TO A CONTROL PRACTICE AT ALL TIMES DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED, DEPENDING UPON HOW THE CONTRACTOR GRADES THE SITE, IT MAY BE NECESSARY TO INSTALL ADDITIONAL CONTROL PRACTICES IN VARIOUS LOCATIONS THROUGHOUT THE PROJECT SITE. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL CONTROL PRACTICES NECESSARY TO PREVENT EROSION AND SEDIMENTATION. ALL DISTURBED GROUND LEFT INACTIVE FOR 7 DAYS SHALL BE STABILIZED WITH A TEMPORARY SEED MIXTURE AND MULCH. THE TEMPORARY SEED MIXTURE SHALL BE IN ACCORDANCE WITH SECTION 630 OF WISDOT STANDARD SPECIFICATIONS. WINTER WHEAT OR RYE SHALL BE USED FOR WINTER SEED APPLICATION. DISTURBED AREAS THAT CAN NOT BE STABILIZED WITH A DENSE GROWTH OF VEGETATION DUE TO TEMPERATURE OR TIMING OF CONSTRUCTION SHALL BE STABILIZED BY APPLYING ANIONIC POLYACRYLAMIDE (PAM). ALL ACTIVITIES ON THE PROJECT SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME. DUST GENERATED BY CONSTRUCTION RELATED ACTIVITIES SHALL BE MINIMIZED BY USE OF WATERING, CALCIUM CHLORIDE SURFACE TREATMENT, CONSTRUCTION SCHEDULING, OR OTHER APPROPRIATE MEASURES. THE CONTRACTOR SHALL BE PREPARED FOR DEWATERING OPERATIONS BY HAVING APPROPRIATE PUMPS AND FILTER BAGS ON-SITE. ALL WATER FROM CONSTRUCTION DEWATERING SHALL BE TREATED PRIOR TO DISCHARGE FROM THE PROJECT SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF THE PROJECT SITE AND PUBLIC ROADS DURING CONSTRUCTION. PUBLIC ROADS SHALL BE KEPT FREE OF SEDIMENT TRACKED FROM AREAS UNDER CONSTRUCTION BY DAILY SWEEPING OR OTHER APPROPRIATE MEASURES. FINAL STABILIZATION OF LANDSCAPED AREAS SHALL BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN. ALL SEEDED AREAS SHALL BE FERTILIZED AS NEEDED, REVEGETATION SHALL BE MAINTAINED IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN TO MAINTAIN A VIGOROUS DENSE VEGETATIVE COVER. 	<p>32 10 00 – PAVEMENT MARKING</p> <ol style="list-style-type: none"> WORK SHALL CONSIST OF INSTALLATION OF PARKING LOT STRIPING, DIRECTION ARROWS, HANDICAP ACCESSIBLE SYMBOLS. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH SECTION 646 OF WISDOT STANDARD SPECIFICATIONS AND WISDOT APPROVED PRODUCTS LIST. COLOR SHALL BE WHITE UNLESS NOTED OTHERWISE ON THIS PLAN. MARKINGS SEPARATING OPPOSING TRAFFIC SHALL BE YELLOW. ALL PARKING LOT STRIPING SHALL BE 4-INCH WIDTH UNLESS NOTED OTHERWISE ON THIS PLAN. BARRICADE WORK AREA DURING INSTALLATION AND UNTIL PAVEMENT MARKING IS DRIED. PROTECT ADJACENT AREAS FROM RECEIVING PAINT OR EPOXY. APPLY PAVEMENT MARKING IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS TO PRODUCE MARKINGS AS INDICATED WITH UNIFORM STRAIGHT EDGES. TEMPLATES SHALL BE PROFESSIONALLY MADE TO INDUSTRY STANDARDS. APPLY PAVEMENT MARKING TO CLEAN AND DRY SURFACE, FREE FROM FROST, TO ENSURE PROPER BONDING. NOTIFY OWNER OF ANY UNSOUND CONDITIONS PRIOR TO COMMENCING WORK. APPLYING PAVEMENT MARKING CONSTITUTES CONTRACTOR'S ACCEPTANCE OF SURFACE AS SUITABLE FOR INSTALLATION. <p>32 30 00 – RETAINING WALLS</p> <ol style="list-style-type: none"> WORK SHALL CONSIST OF FURNISHING DETAILED DESIGN, MATERIALS, LABOR, EQUIPMENT, SUPERVISION, AND DIRECTION TO CONSTRUCT RETAINING WALL SYSTEMS IN REASONABLY CLOSE CONFORMITY TO THE LINES, GRADES, AND DIMENSIONS SHOWN ON THIS PLAN. RETAINING WALLS SHOWN ON THIS PLAN ARE FOR GENERAL LOCATION AND MATERIAL REFERENCE ONLY. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. THE CONTRACTOR SHALL PROCURE DETAILED DESIGN CALCULATIONS AND DRAWINGS, PREPARED AND SEALED BY A PROFESSIONAL ENGINEER EXPERIENCED WITH RETAINING WALL DESIGN AND LICENSED IN THE STATE IN WHICH THE RETAINING WALLS ARE TO BE CONSTRUCTED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SURROUNDING STRUCTURES AND UTILITIES ARE PROTECTED FROM THE EFFECTS OF EXCAVATION AND PROVIDING ANY NECESSARY EXCAVATION SUPPORT. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION ADJACENT TO THE RETAINING WALLS DOES NOT DISTURB OR PLACE TEMPORARY LOADS ON THE RETAINING WALLS THAT EXCEED DESIGN LOADS. <p>DIVISION 33 – UTILITIES</p> <p>33 10 00 – WATER DISTRIBUTION</p> <ol style="list-style-type: none"> WORK SHALL CONSIST OF INSTALLATION AND TESTING OF THE WATER DISTRIBUTION SYSTEM AND ALL APPURTENANCES. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. MUNICIPALITY DEVELOPMENT STANDARDS AND SSSWCW. ALL PRIVATE WATER DISTRIBUTION WORK SHALL BE IN ACCORDANCE WITH WISCONSIN ADMINISTRATIVE CODE SPS 382, MUNICIPALITY DEVELOPMENT STANDARDS AND SSSWCW. DUCTILE IRON PIPE (DIP) SHALL BE CLASS 150 CONFORMING TO AWWA C151 WITH RUBBER GASKETED JOINTS IN ACCORDANCE WITH SECTION 8.18.0 OF SSSWCW. POLYETHYLENE TUBING SHALL BE SDR 9 IN ACCORDANCE WITH SECTION 8.24.0 OF SSSWCW AND CONFORM TO AWWA C901. COPPER TUBING SHALL BE TYPE "K" IN ACCORDANCE WITH SECTION 8.24.0 OF SSSWCW AND CONFORM TO ASTM B88. BALL VALVES SHALL BE IN ACCORDANCE WITH SECTION 8.30.0 OF SSSWCW AND CONFORM TO AWWA C900 AND ASTM B62. GATE VALVES SHALL BE IN ACCORDANCE WITH SECTION 8.27.0 OF SSSWCW AND CONFORM TO AWWA C500. BUTTERFLY VALVES SHALL BE IN ACCORDANCE WITH SECTION 8.28.0 OF SSSWCW AND CONFORM TO AWWA C504. VALVE BOXES SHALL BE IN ACCORDANCE WITH SECTION 8.29.0 OF SSSWCW AND CONFORM TO ASTM A48. VALVE BOXES SHALL BE SIZE DD, SCREW TYPE, 3 PIECE ASSEMBLY, WITH COVERS MARKED "WATER". ALL VALVE BOXES SHALL BE SET TO PROPOSED GRADE, TRULY VERTICAL, AND SUPPORTED BY USE OF ADAPTOR. HYDRANTS SHALL BE IN ACCORDANCE WITH SECTION 8.30.0 OF SSSWCW AND CONFORM TO AWWA C502. PUMPER NOZZLE SHALL BE PERPENDICULAR TO AND ORIENTED TOWARDS THE PAVEMENT. HYDRANTS SHALL BE ATTACHED BY MEANS OF TEE AND HAVE A GROUND LINE TO CENTER DISTANCE OF 18 TO 21 INCHES. FITTINGS SHALL BE CLASS 150 IN ACCORDANCE WITH SECTION 8.22.0 OF SSSWCW, CONFORMING TO AWWA C110, AND PROVIDED WITH MECHANICAL JOINTS. MECHANICAL JOINTS SHALL BE MADE WITH "COR TEN" NUTS AND BOLTS, OR CORROSION-RESISTANT EQUIVALENTS CONFORMING TO AWWA C111. POLYETHYLENE WRAP SHALL BE IN ACCORDANCE WITH SECTION 8.21.0 OF SSSWCW AND PROVIDED FOR ALL METAL PIPES AND FITTINGS. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH SECTION 4.31.3 OF SSSWCW AND PROVIDED FOR ALL BENDS, CAPS, FLUGS, AND TEES. TRENCH SECTION SHALL BE IN ACCORDANCE WITH FILE NO. 36 OF SSSWCW. MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE PLUS 20 INCHES. PIPE BEDDING AND COVER MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 8.43.0 OF SSSWCW. MINIMUM COVER OVER PIPE SHALL BE 12 INCHES. TRENCH BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED GRANULAR BACKFILL IN ACCORDANCE WITH SECTION 8.43.4 OF SSSWCW BENEATH AND WITHIN 5 FEET OF PAVEMENT AREAS, AND SHALL BE SPOIL BACKFILL IN ACCORDANCE WITH SECTION 8.43.5 OF SSSWCW BENEATH GREENSPACE AREAS, UNLESS ALTERNATIVE COMPACTION IS RECOMMENDED IN THE GEOTECHNICAL REPORT OR BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION, IN WHICH CASE THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CAUTION MUST BE FOLLOWED REGARDING THE COMPACTION OF ALL UTILITY TRENCHES. FLOODING OF BACKFILL MATERIAL IS NOT ALLOWED. TRACER WIRE SHALL BE BLUE AND INSTALLED IN ACCORDANCE WITH SECTION 2.11.2 OF SSSWCW ON ALL BURIED NON-METALLIC PUBLIC WATER MAIN PIPE, PRIVATE WATER MAIN PIPE, AND BUILDING WATER SERVICE PIPE. TRACER WIRE SHALL BE INSULATED, SINGLE CONDUCTOR, GALVANNEED COPPER OR COPPER COATED STEEL WIRE, SECURED AT LEAST EVERY 10 FEET AND AT ALL BENDS, WITH ACCESS POINTS AT LEAST EVERY 300 FEET. PROPOSED WATER SERVICES SHOWN ON THIS PLAN SHALL TERMINATE AT A POINT FIVE (5) FEET FROM THE EXTERIOR BUILDING WALL. THE CONTRACTOR IS RESPONSIBLE FOR THE SIZE, TYPE AND NUMBER OF BENDS REQUIRED TO COMPLETE CONSTRUCTION, WHICH SHALL BE INCIDENTAL AND INCLUDED IN THE COST OF WORK. THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES TO FINISHED SURFACE UPON COMPLETION OF PAVING OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PRESSURE TESTING AND SAFE WATER SAMPLING. HYDROSTATIC TESTING SHALL BE IN ACCORDANCE WITH SECTION 4.15.0 OF SSSWCW. DISINFECTION SHALL BE IN ACCORDANCE WITH SECTION 4.16.0 OF SSSWCW AND CONFORM TO AWWA C651. WATER MAINS SHALL BE FLUSHED AND TESTED IN THE PRESENCE OF THE WATER UTILITY OPERATOR. <p>33 30 00 – SANITARY SEWERAGE</p> <ol style="list-style-type: none"> WORK SHALL CONSIST OF INSTALLATION AND TESTING OF THE SANITARY SEWERAGE SYSTEM AND ALL APPURTENANCES. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. ALL PUBLIC SANITARY SEWERAGE WORK SHALL BE IN ACCORDANCE WITH WISCONSIN ADMINISTRATIVE CODE NR 110, MUNICIPALITY DEVELOPMENT STANDARDS AND SSSWCW. ALL PRIVATE SANITARY SEWERAGE WORK SHALL BE IN ACCORDANCE WITH WISCONSIN ADMINISTRATIVE CODE SPS 382, MUNICIPALITY DEVELOPMENT STANDARDS AND SSSWCW. POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS SHALL BE SDR 35 CONFORMING TO ASTM D3034 FOR DEPTHS LESS THAN 18 FEET AND SHALL BE SDR 18 CONFORMING TO AWWA C900 FOR DEPTHS GREATER THAN 18 FEET, BOTH WITH PUSH-ON RUBBER GASKETED JOINTS IN ACCORDANCE WITH SECTIONS 8.10.6 AND 8.41.4 OF SSSWCW. MANHOLES SHALL BE PRECAST REINFORCED CONCRETE IN ACCORDANCE WITH SECTION 8.39.0 OF SSSWCW AND CONFORM TO ASTM C478. SIZES SHALL BE AS INDICATED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING. TRENCH SECTION SHALL BE CLASS 150 IN ACCORDANCE WITH SECTION 3.2.6 OF SSSWCW. MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE PLUS 20 INCHES. PIPE BEDDING AND COVER MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 8.43.0 OF SSSWCW. MINIMUM COVER OVER PIPE SHALL BE 12 INCHES. TRENCH BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED GRANULAR BACKFILL IN ACCORDANCE WITH SECTION 8.43.4 OF SSSWCW BENEATH AND WITHIN 5 FEET OF PAVEMENT AREAS, AND SHALL BE SPOIL BACKFILL IN ACCORDANCE WITH SECTION 8.43.5 OF SSSWCW BENEATH GREENSPACE AREAS, UNLESS ALTERNATIVE COMPACTION IS RECOMMENDED IN THE GEOTECHNICAL REPORT OR BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION, IN WHICH CASE THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CAUTION MUST BE FOLLOWED REGARDING THE COMPACTION OF ALL UTILITY TRENCHES. FLOODING OF BACKFILL MATERIAL IS NOT ALLOWED. ALL CONNECTIONS TO EXISTING SANITARY SEWER PIPES AND STRUCTURES SHALL BE CORED CONNECTIONS, UNLESS NOTED OTHERWISE. PREFABRICATED WYE CONNECTIONS ARE REQUIRED FOR ALL BUILDING SANITARY SEWER PIPES, UNLESS NOTED OTHERWISE. MANHOLES AND OTHER EXTENSIONS SHALL BE INSTALLED IN ACCORDANCE WITH SPS 382.35 FROM SEWER PIPES TO GROUND SURFACE. LIGHT DUTY LOADING CLASSIFICATION SHALL BE USED IN UNPAVED AREAS, MEDIUM DUTY LOADING CLASSIFICATION SHALL BE USED IN PAVED FOOT TRAFFIC AREAS. HEAVY DUTY LOADING CLASSIFICATION SHALL BE USED IN PAVED VEHICULAR TRAFFIC AREAS. ALL MANHOLES AND COVERS SHALL BE SET FLUSH WITH SURFACE. TRACER WIRE SHALL BE GREEN AND INSTALLED IN ACCORDANCE WITH SECTION 2.11.2 OF SSSWCW ON ALL BURIED NON-METALLIC PUBLIC SANITARY SEWER PIPE, PRIVATE SANITARY INTERCEPTOR PIPE, AND BUILDING SANITARY SEWER PIPE. TRACER WIRE SHALL BE INSULATED, SINGLE CONDUCTOR, GALVANNEED COPPER OR COPPER COATED STEEL WIRE, SECURED AT LEAST EVERY 10 FEET AND AT ALL BENDS, WITH ACCESS POINTS AT LEAST EVERY 300 FEET. 	<p>14. PROPOSED SANITARY SERVICES SHOWN ON THIS PLAN SHALL TERMINATE AT A POINT FIVE (5) FEET FROM THE EXTERIOR BUILDING WALL.</p> <p>15. THE CONTRACTOR SHALL ADJUST ALL MANHOLE RIMS TO FINISHED SURFACE UPON COMPLETION OF PAVING OPERATIONS.</p> <p>16. AFTER INSTALLATION OF SANITARY SEWERAGE SYSTEM, CLEAN ALL DEBRIS FROM SYSTEM AND INSPECT FOR DAMAGE. CONDUCT TESTING OF INSTALLED PIPE IN ACCORDANCE WITH SSSWCW. REPAIR ANY DAMAGE AND REPLACE ANY PIPE NOT PASSING TESTING.</p> <p>PUBLIC WATER MAIN SHALL FOLLOW THE CITY OF WAUKESHA SPECIFICATION</p>	<p>DATE</p> <p>16745 W. Blumound Road Brookfield, WI 53005-5938 (262) 781-1000 rasmith.com</p> <p>raSmith CREATIVITY BEYOND ENGINEERING</p> <p>Brookfield, WI Milwaukee, WI Appleton, WI Madison, WI Cedarburg, WI Waukesha, WI Irving, IL</p> <p>CENTRAL DISPOSAL CITY OF WAUKESHA, WI SPECIFICATIONS</p>
<p>01 70 00 – EXECUTION & CLOSEOUT REQUIREMENTS</p> <ol style="list-style-type: none"> THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL EXISTING SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE WITH THIS PLAN. EXISTING UTILITY INFORMATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY, BASED ON BEST AVAILABLE PUBLIC RECORDS, AS-BUILT DRAWINGS, AND FIELD OBSERVATIONS. NO RESPONSIBILITY IS ASSUMED BY THE OWNER OR ENGINEER FOR ACCURACY OR COMPLETENESS. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND NATURE OF EXISTING UTILITIES, AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS, ELEVATIONS, AND SIZES OF EXISTING UTILITIES AND SHALL CHECK ALL PROPOSED UTILITY CONNECTIONS AND CROSSINGS PRIOR TO PROCEEDING WITH ANY WORK. ANY CONFLICTS SHALL BE REPORTED TO THE ENGINEER SO REDESIGN MAY OCCUR IF NEEDED. COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. A GEOTECHNICAL REPORT MAY BE AVAILABLE FROM THE OWNER. THE CONTRACTOR SHALL ABIDE BY THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND SUBSEQUENT RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION. THE CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF THE BENCHMARKS AND HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES, AND SHALL NOTIFY THE ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH ANY WORK. ALL SURVEY BENCHMARKS AND CONTROL POINTS SHALL BE MAINTAINED AND PROTECTED FROM DISTURBANCE. PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED AT ALL TIMES. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY ADJACENT PROPERTIES OR ROAD RIGHTS-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR. THE COST OF RESTORATION IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED. PUBLIC ROADS SHALL NOT BE FULLY CLOSED TO TRAFFIC AT ANY TIME. ALL INGRESS AND EGRESS TRAFFIC TO THE PROJECT SITE SHALL BE LIMITED TO THE CONSTRUCTION ENTRANCE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES, SHALL BID ON THEIR OWN ESTIMATE OF THE WORK REQUIRED, AND SHALL NOT RELY ON THE ENGINEER'S ESTIMATE. REQUESTS FOR CLARIFICATION WILL BE INTERPRETED BY THE OWNER/ENGINEER PRIOR TO AWARD OF CONTRACT, AND WHEN NECESSARY, OFFICIAL WRITTEN RESPONSES WILL BE ISSUED. OFFICIAL WRITTEN RESPONSES SHALL BE BINDING TO THE WORK. IN NO WAY SHALL VERBAL DIALOGUE CONSTITUTE OFFICIAL RESPONSE. SHOULD ANY DISCREPANCIES BE DISCOVERED BY THE CONTRACTOR AFTER AWARD OF CONTRACT, NOTIFY OWNER/ENGINEER IN WRITING IMMEDIATELY. CONSTRUCTION OF ITEMS AFFECTED BY THE DISCREPANCIES SHALL NOT COMMENCE OR CONTINUE UNTIL AN OFFICIAL WRITTEN RESPONSE IS ISSUED. ALL WORK SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM PERIOD OF 12 MONTHS FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL INCLUDE ALL DEFECTS IN MATERIALS AND WORKMANSHIP. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT. 	<p>DIVISION 32 – EXTERIOR IMPROVEMENTS</p> <p>32 12 00 – ASPHALT PAVING</p> <ol style="list-style-type: none"> WORK SHALL CONSIST OF FINE GRADING SUBGRADE, EXCAVATION BELOW SUBGRADE (IF NECESSARY), PLACEMENT OF CRUSHED STONE BASE, INSTALLATION OF HOT-MIX ASPHALT, PAVEMENT MARKING, SIGNAGE, AND CLEANUP. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. CRUSHED STONE BASE SHALL BE IN ACCORDANCE WITH SECTION 305 OF WISDOT STANDARD SPECIFICATIONS. ASPHALTIC MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 455 OF WISDOT STANDARD SPECIFICATIONS. AGGREGATE SHALL BE IN ACCORDANCE WITH SECTION 460 OF WISDOT STANDARD SPECIFICATIONS. DO NOT CONDUIT PAVING IF ANY OF THE FOLLOWING CONDITIONS EXIST: CRUSHED STONE BASE IS WET OR EXCESSIVELY DAMP; TEMPERATURE IS BELOW 30 DEGREES FAHRENHEIT AT TIME OF BINDER COURSE INSTALLATION; TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT WITHIN 12 HOURS PRIOR TO TACK COAT APPLICATION; TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT AT TIME OF SURFACE COURSE INSTALLATION. COMPACT ASPHALT IN ACCORDANCE WITH SECTION 450 OF WISDOT STANDARD SPECIFICATIONS. COMPACT ASPHALT TO PRODUCE THE THICKNESS INDICATED WITHIN PLUS/MINUS 1/4-INCH FOR BINDER COURSE, AND WITHIN PLUS 1/4-INCH FOR SURFACE COURSE (NO MINUS). APPLY TACK COAT BETWEEN ASPHALT COURSES AT A MINIMUM RATE OF 0.25 GAL/SY. NO TRAFFIC SHALL BE ALLOWED ON ASPHALT AFTER FINAL ROLLING UNTIL IT HAS COOLED AND HARDENED. FINAL ASPHALT SURFACE SHALL BE WITHIN A 1/8-INCH TOLERANCE AS DETERMINED BY USING A 10-FOOT STRAIGHTEDGE APPLIED LONGITUDINALLY OR TRANSVERSELY. REMOVE AND REPLACE ALL RAISED AND DEPRESSED AREAS EXCEEDING TOLERANCE. A SLOPE NO GREATER THAN 2% IN ALL DIRECTIONS AT ADA PARKING STALLS AND ADJACENT UNLOADING AREAS IS REQUIRED. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK. A SLOPE NO GREATER THAN 5% ALONG THE LENGTH OF THE ACCESSIBLE ROUTE IS REQUIRED. A SLOPE NO GREATER THAN 2% ACROSS THE WIDTH OF THE ACCESSIBLE ROUTE IS REQUIRED. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK. <p>32 13 00 – CONCRETE PAVING</p> <ol style="list-style-type: none"> WORK SHALL CONSIST OF FINE GRADING SUBGRADE, EXCAVATION BELOW SUBGRADE (IF NECESSARY), PLACEMENT OF CRUSHED STONE BASE, INSTALLATION OF CONCRETE, AND CLEANUP. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. CRUSHED STONE BASE SHALL BE IN ACCORDANCE WITH SECTION 305 OF WISDOT STANDARD SPECIFICATIONS. CONCRETE SHALL BE GRADE A AIR-ENTRAINED IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI. AGGREGATE SHALL BE IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS. WATER SHALL BE IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS AND ASTM C94 / C94M. AIR-ENTRAINING SHALL BE IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS AND ASTM C260. LIQUID CURING COMPOUND SHALL BE IN ACCORDANCE WITH SECTION 415 OF WISDOT STANDARD SPECIFICATIONS AND AASHTO M 148. CURBING SHALL BE IN ACCORDANCE WITH SECTION 601 OF WISDOT STANDARD SPECIFICATIONS. SIDEWALK AND PATIO SHALL BE IN ACCORDANCE WITH SECTION 602 OF WISDOT STANDARD SPECIFICATIONS. CONCRETE FORMS SHALL REMAIN IN PLACE AT LEAST 24 HOURS AFTER CONCRETE INSTALLATION AND SHALL BE CLEANED AFTER EACH USE. CONCRETE FORMS SHALL BE COATED WITH RELEASE AGENT TO ALLOW SEPARATION WITHOUT DAMAGE TO CONCRETE. CONSTRUCTION AND CONTRACTION JOINTS SHALL BE IN ACCORDANCE WITH SECTION 415 OF WISDOT STANDARD SPECIFICATIONS. JOINT PATTERN SHALL FOLLOW ARCHITECTURAL PLANS IF AVAILABLE. SEPARATION JOINTS SHALL CONSIST OF FULL-DEPTH STRIPS ABUTTING CURBING, INLETS, CATCH BASINS, MANHOLES, STRUCTURES, AND OTHER FIXED OBJECTS. 	<p>32 17 00 – PAVEMENT MARKING</p> <ol style="list-style-type: none"> WORK SHALL CONSIST OF INSTALLATION OF PARKING LOT STRIPING, DIRECTION ARROWS, HANDICAP ACCESSIBLE SYMBOLS. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH SECTION 646 OF WISDOT STANDARD SPECIFICATIONS AND WISDOT APPROVED PRODUCTS LIST. COLOR SHALL BE WHITE UNLESS NOTED OTHERWISE ON THIS PLAN. MARKINGS SEPARATING OPPOSING TRAFFIC SHALL BE YELLOW. ALL PARKING LOT STRIPING SHALL BE 4-INCH WIDTH UNLESS NOTED OTHERWISE ON THIS PLAN. BARRICADE WORK AREA DURING INSTALLATION AND UNTIL PAVEMENT MARKING IS DRIED. PROTECT ADJACENT AREAS FROM RECEIVING PAINT OR EPOXY. APPLY PAVEMENT MARKING IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS TO PRODUCE MARKINGS AS INDICATED WITH UNIFORM STRAIGHT EDGES. TEMPLATES SHALL BE PROFESSIONALLY MADE TO INDUSTRY STANDARDS. APPLY PAVEMENT MARKING TO CLEAN AND DRY SURFACE, FREE FROM FROST, TO ENSURE PROPER BONDING. NOTIFY OWNER OF ANY UNSOUND CONDITIONS PRIOR TO COMMENCING WORK. APPLYING PAVEMENT MARKING CONSTITUTES CONTRACTOR'S ACCEPTANCE OF SURFACE AS SUITABLE FOR INSTALLATION. <p>32 30 00 – RETAINING WALLS</p> <ol style="list-style-type: none"> WORK SHALL CONSIST OF FURNISHING DETAILED DESIGN, MATERIALS, LABOR, EQUIPMENT, SUPERVISION, AND DIRECTION TO CONSTRUCT RETAINING WALL SYSTEMS IN REASONABLY CLOSE CONFORMITY TO THE LINES, GRADES, AND DIMENSIONS SHOWN ON THIS PLAN. RETAINING WALLS SHOWN ON THIS PLAN ARE FOR GENERAL LOCATION AND MATERIAL REFERENCE ONLY. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. THE CONTRACTOR SHALL PROCURE DETAILED DESIGN CALCULATIONS AND DRAWINGS, PREPARED AND SEALED BY A PROFESSIONAL ENGINEER EXPERIENCED WITH RETAINING WALL DESIGN AND LICENSED IN THE STATE IN WHICH THE RETAINING WALLS ARE TO BE CONSTRUCTED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SURROUNDING STRUCTURES AND UTILITIES ARE PROTECTED FROM THE EFFECTS OF EXCAVATION AND PROVIDING ANY NECESSARY EXCAVATION SUPPORT. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION ADJACENT TO THE RETAINING WALLS DOES NOT DISTURB OR PLACE TEMPORARY LOADS ON THE RETAINING WALLS THAT EXCEED DESIGN LOADS. <p>DIVISION 33 – UTILITIES</p> <p>33 10 00 – WATER DISTRIBUTION</p> <ol style="list-style-type: none"> WORK SHALL CONSIST OF INSTALLATION AND TESTING OF THE WATER DISTRIBUTION SYSTEM AND ALL APPURTENANCES. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. MUNICIPALITY DEVELOPMENT STANDARDS AND SSSWCW. ALL PRIVATE WATER DISTRIBUTION WORK SHALL BE IN ACCORDANCE WITH WISCONSIN ADMINISTRATIVE CODE SPS 382, MUNICIPALITY DEVELOPMENT STANDARDS AND SSSWCW. DUCTILE IRON PIPE (DIP) SHALL BE CLASS 150 CONFORMING TO AWWA C151 WITH RUBBER GASKETED JOINTS IN ACCORDANCE WITH SECTION 8.18.0 OF SSSWCW. POLYETHYLENE TUBING SHALL BE SDR 9 IN ACCORDANCE WITH SECTION 8.24.0 OF SSSWCW AND CONFORM TO AWWA C901. COPPER TUBING SHALL BE TYPE "K" IN ACCORDANCE WITH SECTION 8.24.0 OF SSSWCW AND CONFORM TO ASTM B88. BALL VALVES SHALL BE IN ACCORDANCE WITH SECTION 8.30.0 OF SSSWCW AND CONFORM TO AWWA C900 AND ASTM B62. GATE VALVES SHALL BE IN ACCORDANCE WITH SECTION 8.27.0 OF SSSWCW AND CONFORM TO AWWA C500. BUTTERFLY VALVES SHALL BE IN ACCORDANCE WITH SECTION 8.28.0 OF SSSWCW AND CONFORM TO AWWA C504. VALVE BOXES SHALL BE IN ACCORDANCE WITH SECTION 8.29.0 OF SSSWCW AND CONFORM TO ASTM A48. VALVE BOXES SHALL BE SIZE DD, SCREW TYPE, 3 PIECE ASSEMBLY, WITH COVERS MARKED "WATER". ALL VALVE BOXES SHALL BE SET TO PROPOSED GRADE, TRULY VERTICAL, AND SUPPORTED BY USE OF ADAPTOR. HYDRANTS SHALL BE IN ACCORDANCE WITH SECTION 8.30.0 OF SSSWCW AND CONFORM TO AWWA C502. PUMPER NOZZLE SHALL BE PERPENDICULAR TO AND ORIENTED TOWARDS THE PAVEMENT. HYDRANTS SHALL BE ATTACHED BY MEANS OF TEE AND HAVE A GROUND LINE TO CENTER DISTANCE OF 18 TO 21 INCHES. FITTINGS SHALL BE CLASS 150 IN ACCORDANCE WITH SECTION 8.22.0 OF SSSWCW, CONFORMING TO AWWA C110, AND PROVIDED WITH MECHANICAL JOINTS. MECHANICAL JOINTS SHALL BE MADE WITH "COR TEN" NUTS AND BOLTS, OR CORROSION-RESISTANT EQUIVALENTS CONFORMING TO AWWA C111. POLYETHYLENE WRAP SHALL BE IN ACCORDANCE WITH SECTION 8.21.0 OF SSSWCW AND PROVIDED FOR ALL METAL PIPES AND FITTINGS. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH SECTION 4.31.3 OF SSSWCW AND PROVIDED FOR ALL BENDS, CAPS, FLUGS, AND TEES. TRENCH SECTION SHALL BE IN ACCORDANCE WITH FILE NO. 36 OF SSSWCW. MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE PLUS 20 INCHES. PIPE BEDDING AND COVER MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 8.43.0 OF SSSWCW. MINIMUM COVER OVER PIPE SHALL BE 12 INCHES. TRENCH BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED GRANULAR BACKFILL IN ACCORDANCE WITH SECTION 8.43.4 OF SSSWCW BENEATH AND WITHIN 5 FEET OF PAV		



PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS
EVERGREEN TREES							
	SPJ	11	Star Power Juniper	Juniperus x 'J.N. Select' Star Power TM	5' - 6' HT	B&B	Spacing as shown
ORNAMENTAL TREES							
	IW	4	Ironwood	Ostrya virginiana	2" CAL	B&B	Spacing as shown
DECIDUOUS SHRUBS							
	RCB	17	Brilliant Red Chokeberry	Aronia arbutifolia 'Brilliantissima'	24" HT	CONT	Spacing as shown
	HF	7	Fire Light® Hydrangea	Hydrangea paniculata 'SMHPFL'	24" HT	CONT	Spacing as shown
	FSP	9	Fritsch Spirea	Spiraea fritschiana	15' HT	CONT	Spacing as shown
							EXISTING TREE TO RETAIN
							EXISTING TREE CANOPY TO RETAIN



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.

ALL COPYRIGHTS TO THESE DRAWINGS ARE RESERVED. THEY MAY NOT BE COPIED, CHANGED, OR ASSIGNED TO ANY THIRD PARTY IN ANY MANNER WITHOUT OBTAINING THE EXPRESSED WRITTEN PERMISSION OF R.A. SMITH, INC.

DESCRIPTION	
DATE	
<p>16745 W. Bluemound Road Brookfield, WI 53005-5938 (262) 781-1000 rasmith.com</p> <p>raSmith CREATIVITY BEYOND ENGINEERING</p> <p>Brookfield, WI Milwaukee, WI Appleton, WI Madison, WI Cedarburg, WI Naperville, IL Irvine, CA</p>	
CENTRAL DISPOSAL CITY OF WAUKESHA, WI	LANDSCAPE PLAN
<p>© COPYRIGHT 2024 R.A. Smith, Inc. DATE: 02/26/2024 SCALE: 1" = 20' JOB NO. 3230241 PROJECT MANAGER: ROBERT J. HARLEY, P.E. DESIGNED BY: ALS CHECKED BY: RJH</p> <p>SHEET NUMBER L100</p>	

