

DRAWING FILE: P:\9800-9899\9874 - TANN CORP - LOT 5 IND PARK.DWG[LAN\9874-C001-TITLE.DWG LAYOUT: C001  
PLOTTED: JAN 15, 2022 - 2:08PM PLOTTED BY: NATHAN

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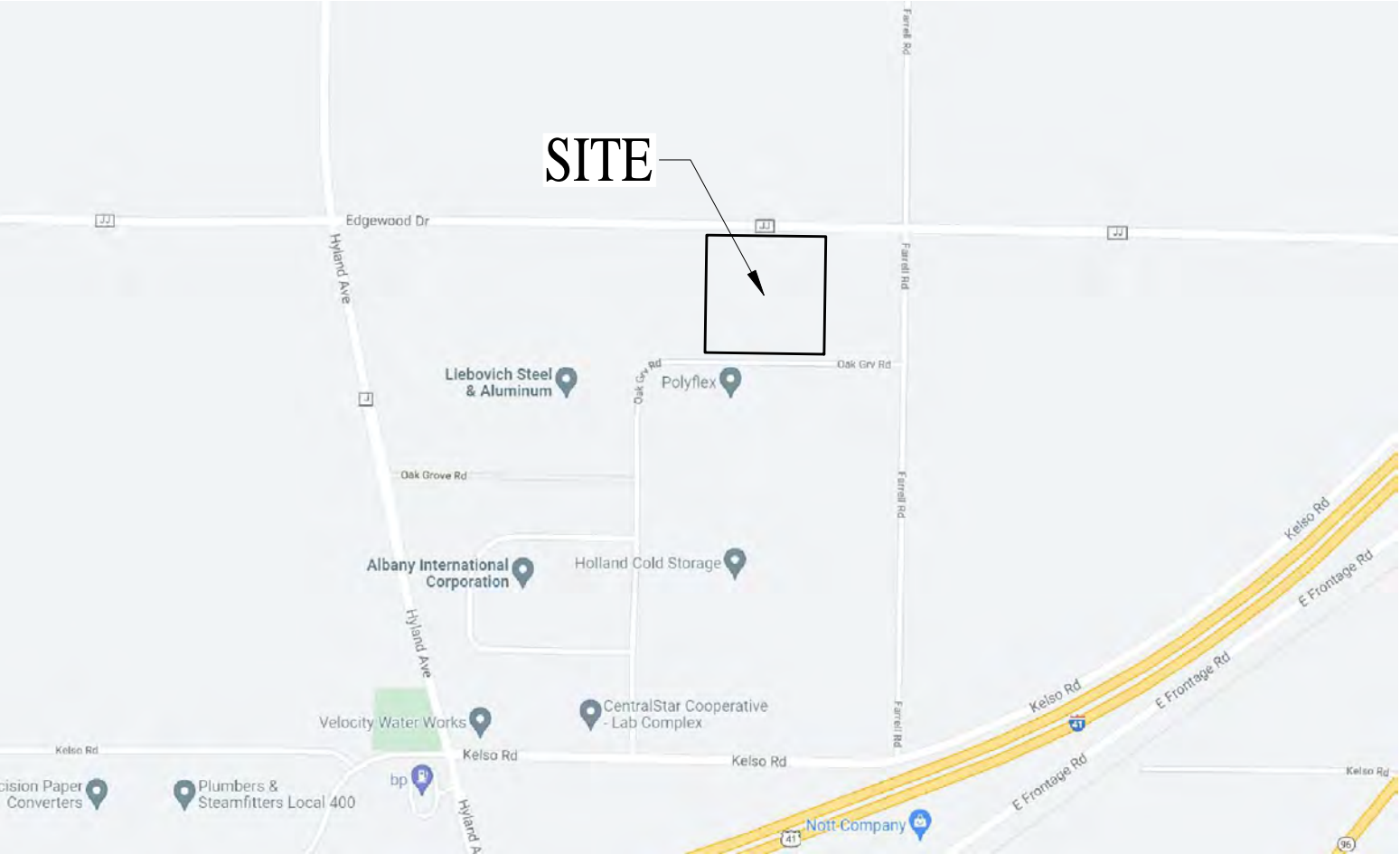
SHEET C001	TITLE SHEET
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SHEET C900	SITE SPECIFICATIONS

TOTAL SHEETS = 9

LIST OF STANDARD ABBREVIATIONS

&	AND
AB	AUGER BORING
ADT	AVERAGE DAILY TRAFFIC
BC	BOTTOM OF CURB
BM	BENCHMARK
BOC	BACK OF CURB
BR	BOTTOM OF RAMP
BS	BOTTOM OF STEPS
BW	BOTTOM OF WALL
CB	CATCH BASIN
CMAC	CORRUGATED METAL ARCH CULVERT
CMBC	CORRUGATED METAL BOX CULVERT
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC.	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
DGB	DENSE GRADED BASE
DIP	DUCTILE IRON PIPE
D/S	DOWNSTREAM
(E)	EAST
ELEV.	ELEVATION
EOG	EDGE OF GRAVEL
FFE	FINISHED FLOOR ELEVATION
FG	FINISH GRADE
F.O.	FIBER OPTIC
INL	INLET
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HMA	HOT MIX ASPHALT
HP	HIGH POINT
IE	INVERT ELEVATION
LF	LINEAL FEET
LP	LOW POINT
MEG	MATCH EXISTING GRADE
MH	MANHOLE
(N)	NORTH
(NE)	NORTHEAST
(NW)	NORTHWEST
OH	OVERHEAD
PC	POINT OF CURVATURE
PE	POLYETHYLENE PIPE
P/L	PROPERTY LINE
PP	POWER POLE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE PIPE
RCB	REINFORCED CONCRETE BOX CULVERT
RCP	REINFORCED CONCRETE PIPE
RR	RAIL ROAD
R/W	RIGHT OF WAY
(S)	SOUTH
SAN	SANITARY SEWER
SB	SOIL BORING
SS	STORM SEWER
STM	STORM
(SW)	SOUTHWEST
TC	TOP OF CURB
TBR	TO BE REMOVED
TLE	TEMPORARY LIMITED EASEMENT
TNH	TOP NUT FIRE HYDRANT
TP	TEST PIT
TR	TOP OF RAMP
TYP.	TYPICAL
TS	TOP OF STEPS
TW	TOP OF WALL
U/S	UPSTREAM
VAR.	VARIES
(W)	WEST

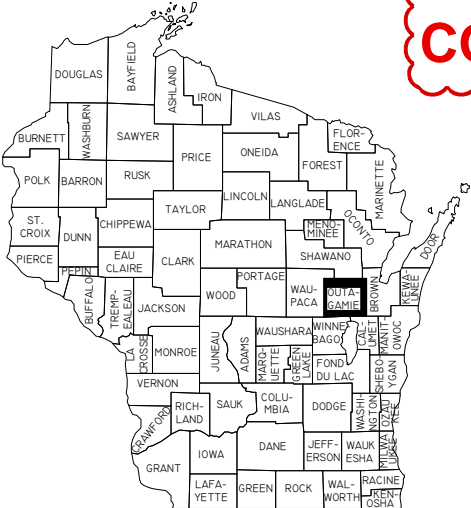
REVIEW PLANS FOR:  
TANN CORPORATION  
CITY OF KAUKAUNA, OUTAGAMIE COUNTY, WISCONSIN



NOT FOR  
CONSTRUCTION

TITLE WORK REQUIRED  
TITLE WORK FOR THE PROJECT SITE  
WAS NOT PROVIDED TO REI FOR  
REVIEW, THEREFORE REI WAS  
UNABLE TO VERIFY THE EXISTENCE  
OF EASEMENTS OR USE  
ENCUMBRANCES.

INFORMATION SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES IS BASED ON INFORMATION AND DATA FURNISHED BY THE OWNER OF SUCH UNDERGROUND FACILITIES. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXACT LOCATIONS OF ALL UNDERGROUND FACILITIES PRIOR TO COMMENCING ANY WORK. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITY FACILITIES.



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LEGEND	
	BENCHMARK
	1" IRON BAR
	EXISTING MANHOLE
	EXISTING TELEPHONE MANHOLE
	EXISTING STORM SEWER MANHOLE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING HYDRANT
	EXISTING WATER VALVE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING WATER SHUTOFF
	EXISTING DECIDUOUS TREE
	EXISTING CONIFEROUS TREE
	EXISTING GAS VALVE
	EXISTING CURB INLET
	EXISTING WELL
	TEST PIT LOCATION
	SOIL BORING
	EXISTING AIR CONDITIONING UNIT
	EXISTING GAS METER
	EXISTING ELECTRIC METER
	EXISTING UTILITY PEDESTAL
	EXISTING RAILROAD TRACKS
	EXISTING TREE LINE
	EXISTING GUY POLE
	EXISTING CABLE TV
	EXISTING FIBER OPTIC CABLE
	EXISTING UNDERGROUND GAS
	EXISTING UNDERGROUND ELECTRIC
	EXISTING UNDERGROUND TELEPHONE
	EXISTING OVERHEAD UTILITIES
	EXISTING WATER MAIN
	EXISTING STORM SEWER
	EXISTING SANITARY SEWER
	EXISTING PROPERTY LINE
	PROPOSED HANDICAP PARKING
	PROPOSED CURB STOP
	PROPOSED HYDRANT
	PROPOSED WATER VALVE
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED FORCE MAIN
	PROPOSED SANITARY SEWER LATERAL
	PROPOSED WATER LATERAL
	PROPOSED WATER MAIN
	PROPOSED PUMP STATION
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM MANHOLE
	PROPOSED CURB INLET
	PROPOSED CATCH BASIN
	PROPOSED CLEANOUT
	PROPOSED DRAINAGE FLOW
	PROPOSED SLOPE
	PROPOSED CURB & GUTTER
	PROPOSED REJECT CURB & GUTTER
	PROPOSED MOUNTABLE CURB & GUTTER
	EXISTING GROUND CONTOUR (INTERVAL-1 FT.)
	PROPOSED GROUND CONTOUR (INTERVAL-1 FT.)
	PROPOSED SPOT ELEVATION (TOP OF CURB)
	PROPOSED SPOT ELEVATION (BOTTOM OF CURB)
	PROPOSED SILT FENCE
	PROPOSED INLET PROTECTION
	PROPOSED RIPRAP
	PROPOSED EROSION MAT
	PROPOSED SAWCUT
	PROPOSED DRAINAGE SWALE

<b>OWNER:</b> <b>TANN CORPORATION</b>	<b>OWNER:</b> <b>CITY OF KAUKAUNA ENGINEERING</b> 144 W. SECOND STREET P.O. BOX 890 KAUKAUNA, WISCONSIN 54130 (920) 766-6305
<b>SURVEYOR:</b> <b>REI ENGINEERING, INC.</b> 4080 N. 20TH AVENUE WAUSAU, WI 54401 (715) 675-9784	<b>KAUKAUNA PUBLIC WORKS</b> 207 REAUME AVENUE P.O. BOX 890 KAUKAUNA, WISCONSIN 54130 (920) 766-6337
<b>ENGINEER:</b> <b>REI ENGINEERING, INC.</b> 4080 N. 20TH AVENUE WAUSAU, WI 54401 (715) 675-9784 PROJECT MANAGER JIM J. BORYSENKO, P.E.	<b>WISCONSIN DEPARTMENT OF NATURAL RESOURCES</b> 625 E COUNTY ROAD Y, SUITE 700 OSHKOSH, WISCONSIN 54901-9731 (920) 424-7885
<b>APPROVING AUTHORITIES:</b> CITY OF KAUKAUNA WDR DSPS	

**REI Engineering, INC.**  
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WAUSAU, WISCONSIN 54401  
PHONE: 715.675.9784 FAX: 715.675.4060  
EMAIL: MAIL@REIENGINEERING.COM



**CIVIL & ENVIRONMENTAL  
ENGINEERING, SURVEYING**

NO SCALE

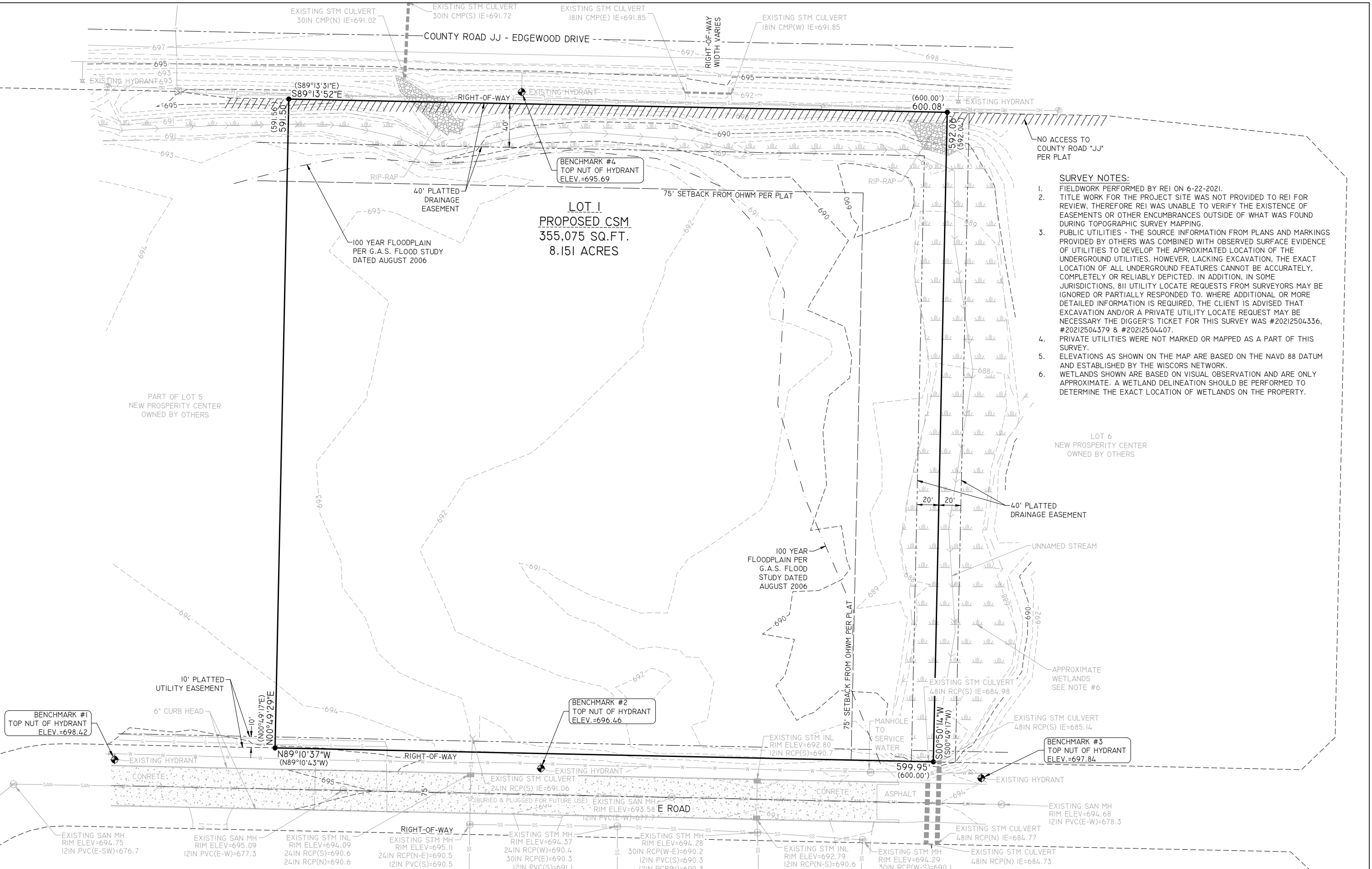


DATE	REVISION	BY	CHKD	SURVEYED BY: JLR,JJM	DESIGNED BY: GSW	SURVEY DATE: 06/22/21
				SURVEY CHKD BY: JWP	CIVIL CHKD BY: JJB	CIVIL DATE: 01/11/22
				SURVEY APVD BY: JWP	CIVIL APVD BY: JJB	DRAWN BY: NAP

**TITLE SHEET**  
TANN CORP  
OAK GROVE ROAD  
KAUKAUNA, WISCONSIN


**REI**  
REI No. 9874  
SHEET C001

DRAWING FILE: P:\9800-9899\9874 - TANN CORP - LOT 5 IND PARK\DWG\PLANS\9874-C010-EXISTING.DWG LAYOUT: C010  
PLOTTED: JAN 13, 2022 - 2:08PM PLOTTED BY: NATHANP




- SURVEY NOTES:**
1. FIELDWORK PERFORMED BY REI ON 6-22-2021.
  2. TITLE WORK FOR THE PROJECT SITE WAS NOT PROVIDED TO REI FOR REVIEW, THEREFORE REI WAS UNABLE TO VERIFY THE EXISTENCE OF EASEMENTS OR OTHER ENCUMBRANCES OUTSIDE OF WHAT WAS FOUND DURING TOPOGRAPHIC SURVEY MAPPING.
  3. PUBLIC UTILITIES - THE SOURCE INFORMATION FROM PLANS AND MARKINGS PROVIDED BY OTHERS WAS COMBINED WITH OBSERVED SURFACE EVIDENCE OF UTILITIES TO DEVELOP THE APPROXIMATED LOCATION OF THE UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF ALL UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY OR RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR PARTIALLY RESPONDED TO. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION AND/OR A PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY. THE DIGGER'S TICKET FOR THIS SURVEY WAS #20212504336, #20212504379 & #20212504407.
  4. PRIVATE UTILITIES WERE NOT MARKED OR MAPPED AS A PART OF THIS SURVEY.
  5. ELEVATIONS AS SHOWN ON THE MAP ARE BASED ON THE NAVD 88 DATUM AND ESTABLISHED BY THE WISCORS NETWORK.
  6. WETLANDS SHOWN ARE BASED ON VISUAL OBSERVATION AND ARE ONLY APPROXIMATE. A WETLAND DELINEATION SHOULD BE PERFORMED TO DETERMINE THE EXACT LOCATION OF WETLANDS ON THE PROPERTY.

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**CIVIL & ENVIRONMENTAL  
ENGINEERING, SURVEYING**


SCALE  
0 40 80



DATE	REVISION	BY	CHKD

SURVEYED BY: JLR, JJM	DESIGNED BY: GSW	SURVEY DATE: 06/22/21
SURVEY CHKD BY: JWP	CIVIL CHKD BY: JJB	CIVIL DATE: 01/11/22
SURVEY APVD BY: JWP	CIVIL APVD BY: JJB	DRAWN BY: NAP

**EXISTING SITE CONDITIONS**  
TANN CORP  
OAK GROVE ROAD  
KAUKAUNA, WISCONSIN

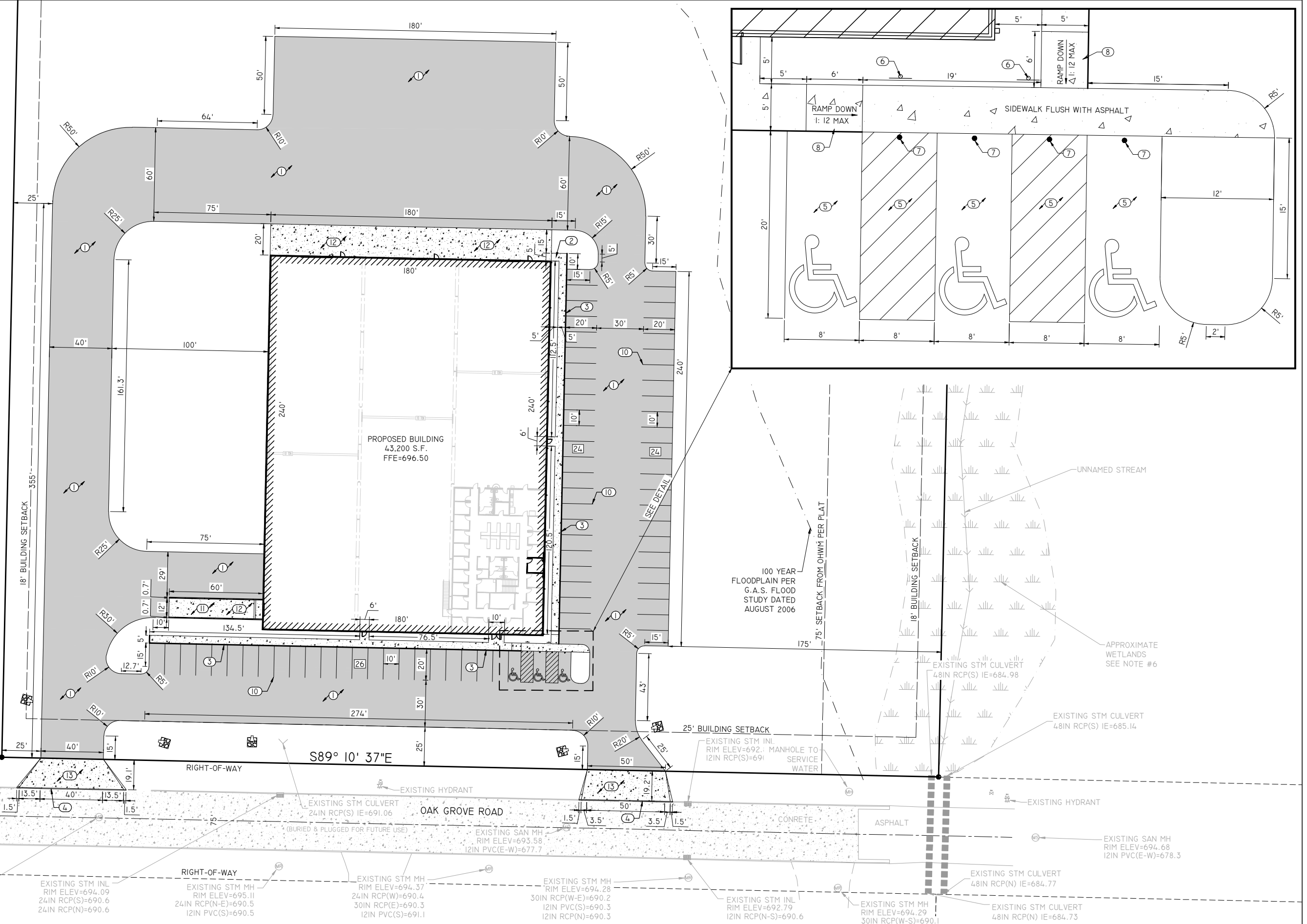
**REI**  
REI No. 9874  
SHEET C010

KEYED NOTES

1. HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL A/C800.
2. 4" CONCRETE SIDEWALK. SEE DETAIL B/C800.
3. SIDEWALK WITH INTEGRAL CURB. SEE DETAIL C/C800.
4. CURB CUT FOR DRIVEWAY ENTRANCE. REMOVE EXISTING CURB HEAD.
5. HANDICAP PARKING SPACES & STRIPING. SEE DETAIL D/C800.
6. VAN ACCESSIBLE HANDICAP SIGN WITH DOUBLE ARROW. SEE DETAIL E/C800.
7. PROPOSED BOLLARD. SEE DETAIL F/C800.
8. SIDEWALK RAMP @ 1:12 SLOPE MAX.
9. 2'X2' REFUSE AREA- 6" CONCRETE PAD WITH 6"X6" WELDED WIRE MESH. REFER TO ARCHITECTURAL PLANS FOR ENCLOSURE DETAILS.
10. PAINTED STRIPING, YELLOW. (TYPICAL)
11. PROPOSED TRUCK RAMP.
12. PROPOSED 6" CONCRETE PAVEMENT. SEE DETAIL G/C800.
13. CONCRETE DRIVEWAY APRON. SEE DETAIL H/C800.

NOTES:

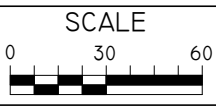
- (A) BUILDINGS AND PARKING SPACES ARE PARALLEL AND PERPENDICULAR TO REFERENCE LINE LABELED, S89°10'37"E, AS TAKEN FROM THE SURVEY.
- (B) ALL DIMENSIONS ARE TO THE BACK OF CURB OR FACE OF INTEGRAL CURB, UNLESS OTHERWISE NOTED.
- (C) PRIVATE & PUBLIC UTILITY COORDINATION INCLUDING GAS, ELECTRIC, AND TELECOMMUNICATIONS SHALL BE COORDINATED BY THE CONTRACTOR.



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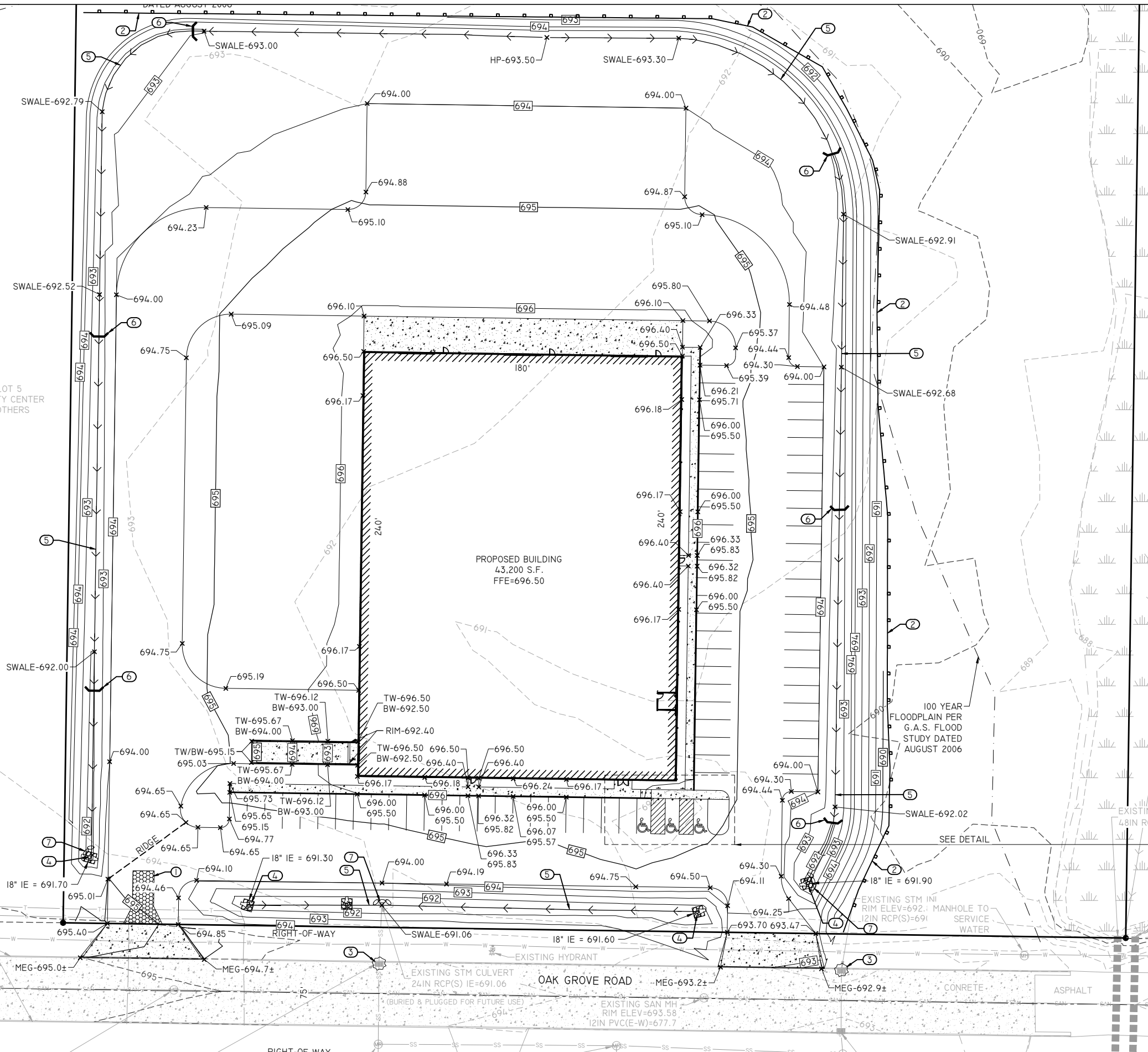


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SITE PLAN  
TANN CORP  
OAK GROVE ROAD  
KAUKAUNA, WISCONSIN

REI  
REI No. 9874  
SHEET C100

DRAWING FILE: P:\9800-9899\9874 - TANN CORP - LOT 5 IND PARK\DWG\LANDS\9874-C200-GRADING-EC.DWG LAYOUT: C200  
PLOTTED: JAN 13, 2022 - 2:09PM PLOTTED BY: NATHAN



## KEYED NOTES

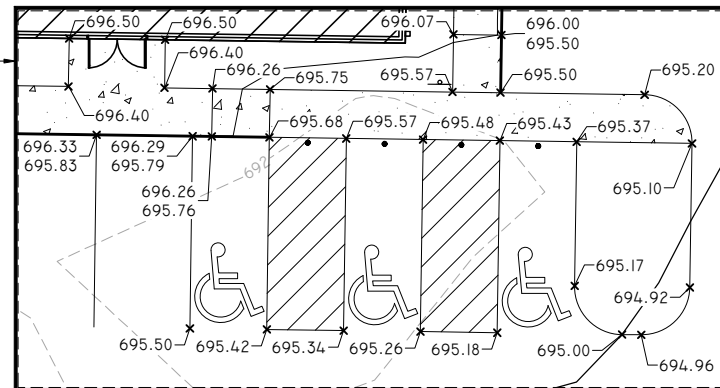
1. TEMPORARY CONSTRUCTION ENTRANCE/EXIT. SEE DETAIL A/C810.
2. INSTALL SILT FENCE. PROVIDE DOUBLE ROW OR TIE BACKS WHEN ADJACENT TO WETLANDS. SEE DETAIL B/C810.
3. PROVIDE INLET PROTECTION. SEE DETAIL C/C810.
4. INSTALL LIGHT RIPRAP ON TYPE R GEOTEXTILE FABRIC. SEE DETAIL D/C810.
5. CONSTRUCT VEGETATED DRAINAGE SWALE. SEE DETAIL E/C810.
6. INSTALL DITCH CHECKS @ MAX. OF 200-FT INTERVALS OR EVERY 2-FT OF DROP. SEE DETAIL F/C810.
7. PROVIDE CULVERT PROTECTION. SEE DETAIL G/C810.

## SUGGESTED SEQUENCING:

- PROVIDE CONSTRUCTION ACCESS
- INSTALL SILT FENCE AND INLET / CULVERT PROTECTION ON EXISTING STORM STRUCTURES
- ROUGH GRADING
- INSTALL DITCH CHECKS IN SWALES
- BUILDING CONSTRUCTION
- SITE UTILITY INSTALLATION
- INSTALL CULVERT PROTECTION ON NEW STORM STRUCTURES
- FINISH GRADING
- PAVING
- FINAL STABILIZATION

## NOTES:

- (A) CONTRACTOR IS RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION, AND IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION.
- (B) CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND COORDINATING ALL PROPOSED UTILITY RUNS, INSTALLATIONS AND RELOCATIONS.
- (C) CALL DIGGERS HOTLINE @ 811 OR 1-800-242-8511 AT LEAST 3 WORKING DAYS PRIOR TO EXCAVATING.
- (D) ADJUST ALL MANHOLES, INLETS, AND VALVE BOXES TO FINISH GRADE.
- (E) INSTALL WISDOT CLASS I, TYPE B EROSION MAT ON ALL REVEGETATED SLOPES 4:1 OR GREATER AND WITHIN SWALE BOTTOMS.
- (F) CONTRACTOR SHALL ABIDE BY THE WDNR CONSERVATION PRACTICE STANDARDS FOR INSTALLATION AND MAINTENANCE OF EROSION CONTROL.
- (G) GRADING CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE BETWEEN PROPOSED IMPROVEMENTS AND EXISTING CONTOURS.
- (H) IN AREAS WHERE THE PARKING LOT DRAINS ONTO ADJACENT GRASS AREAS, MAINTAIN ASPHALT 1" ABOVE GRASS.
- (I) SPOT ELEVATIONS SHOWN ALONG CURBLINE DENOTE FLOWLINE UNLESS SPECIFIED. REFER TO LAYOUT PLAN FOR CURB TYPES.
- (J) WETLANDS SHOWN ARE BASED ON VISUAL OBSERVATION AND ARE ONLY APPROXIMATE. A WETLAND DELINEATION SHOULD BE PERFORMED TO DETERMINE THE EXACT LOCATION OF WETLANDS ON THE PROPERTY.



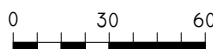
**REI Engineering, INC.**  
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**REI**

**CIVIL & ENVIRONMENTAL  
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SCALE



DATE	REVISION	BY	CHKD	SURVEYED BY: JLR, JJM	DESIGNED BY: GSW	SURVEY DATE: 06/22/21
				SURVEY CHKD BY: JWP	CIVIL CHKD BY: JJB	CIVIL DATE: 01/11/22
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**GRADING & EROSION CONTROL PLAN**

TANN CORP  
OAK GROVE ROAD  
KAUKAUNA, WISCONSIN



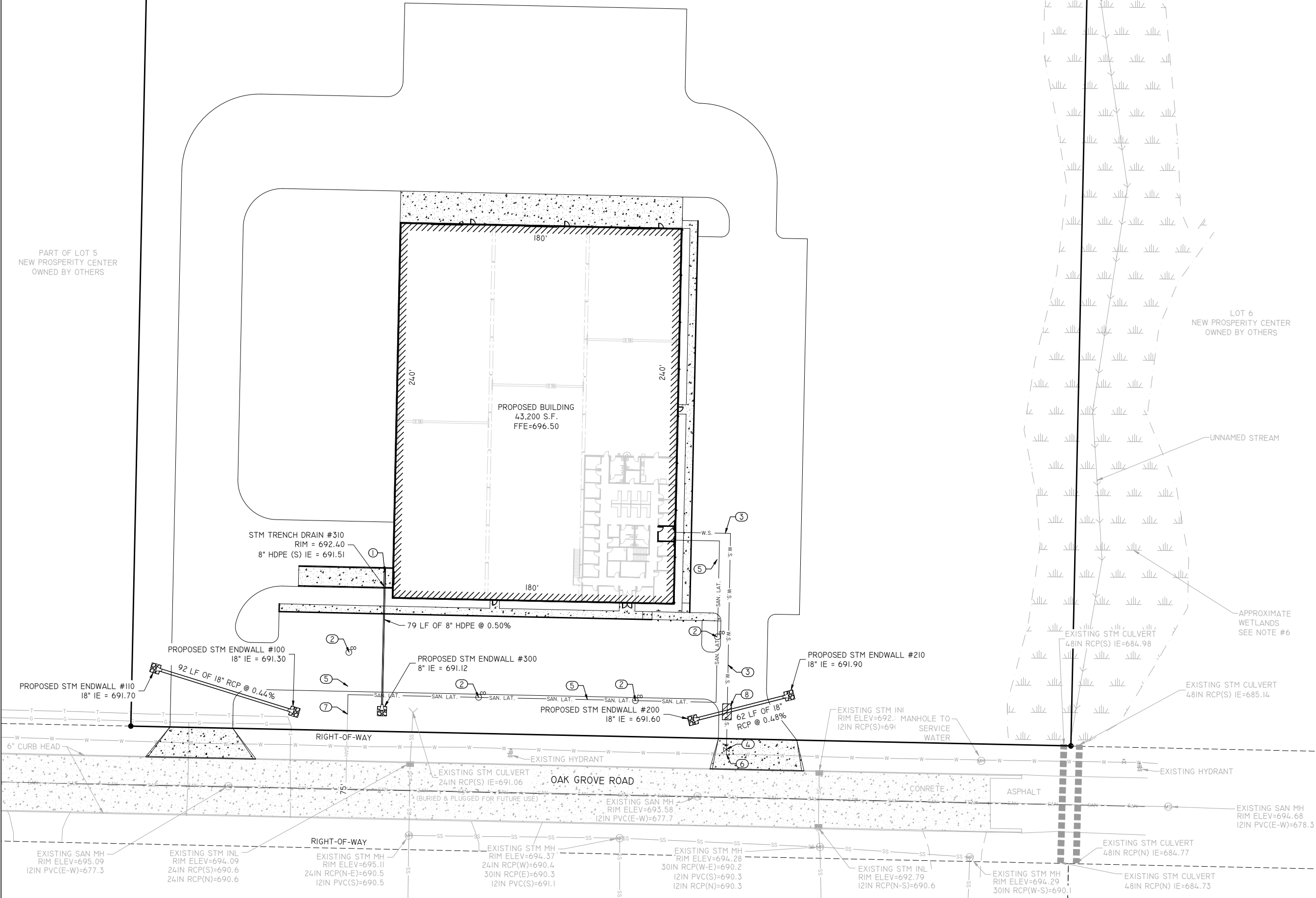
REI No. 9874  
SHEET C200



DRAWING FILE: P:\9800-9899\9874 - TANN CORP - LOT 5 IND PARK\DWG\Plans\9874-C300-UTILITIES.dwg LAYOUT: C300  
PLOTTED: JAN 13, 2022 - 2:10PM PLOTTED BY: NATHANP

PART OF LOT 5  
NEW PROSPERITY CENTER  
OWNED BY OTHERS

LOT 6  
NEW PROSPERITY CENTER  
OWNED BY OTHERS



## KEYED NOTES

1. INSTALL STORM TRENCH DRAIN. SEE DETAIL A/C820.
2. INSTALL 6" SANITARY CLEANOUT. SEE DETAIL B/C820.
3. INSTALL 176 LF OF 6" WATER SERVICE LATERAL.
4. INSTALL WATER GATE VALVE. SEE DETAIL C/C820.
5. INSTALL 379 LF OF 6" SANITARY SERVICE LATERAL @ 1.00% MINIMUM.
6. CONNECT TO EXISTING WATER MAIN WITH WET TAP AND TAPPING VALVE. SEE DETAIL D/C820.
7. CONNECT TO SANITARY STUB.
8. INSTALL INSULATION OVER WATER PIPE AT CROSSING. SEE DETAIL E/C820.

## NOTES:

- (A) CONTRACTOR RESPONSIBLE FOR MAINTAINING A MIN. COVER OF 7.5' GRADE OVER PROPOSED WATER LINE.
- (B) CONTRACTOR IS RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION, AND IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION.
- (C) CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND COORDINATING ALL PROPOSED UTILITY RUNS, INSTALLATIONS AND RELOCATIONS.
- (D) CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE REQUIRED HORIZONTAL AND VERTICAL PIPE SEPARATION BETWEEN SEWER AND WATER PIPES. SEE DETAIL F/C820. VERTICAL CLEARANCES ARE MEASURED FROM OUTSIDE PIPE DIAMETER, HORIZONTAL CLEARANCES ARE MEASURED FROM PIPE CENTER.
- (E) SEE DETAIL G/C820 FOR PIPE BEDDING.
- (F) CALL DIGGERS HOTLINE @ 811 OR 1-800-242-8511 AT LEAST 3 WORKING DAYS PRIOR TO EXCAVATING.
- (G) CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MEANS TO LOCATE NON-METALLIC WATER AND SEWER (SANITARY AND STORM) PER SPS 382.
- (H) PRIOR TO INSTALLATION OF SANITARY AND WATER SERVICES, CONFIRM SIZE AND LOCATION WITH GENERAL CONTRACTOR.
- (I) THE CONTRACTOR RESPONSIBLE FOR THE INSTALLATION OF SITE UTILITIES SHALL PROVIDE A TEMPORARY CAP OR PLUG AT BUILDING TERMINATION. REFER TO PLUMBING PLANS FOR CONTINUATION OF WORK INSIDE THE BUILDING.
- (J) PIPE LENGTHS PROVIDED ARE GIVEN TO CENTER OF STRUCTURE OR END OF END STRUCTURE.

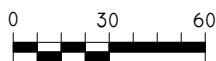
**REI Engineering, INC.**  
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EMAIL: MAIL@REIENGINEERING.COM



**REI**

**CIVIL & ENVIRONMENTAL  
ENGINEERING, SURVEYING**

## SCALE

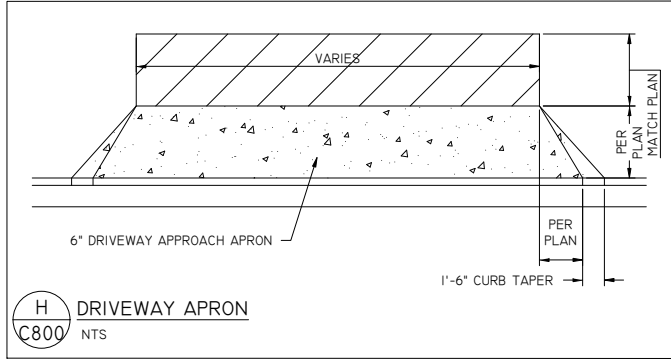
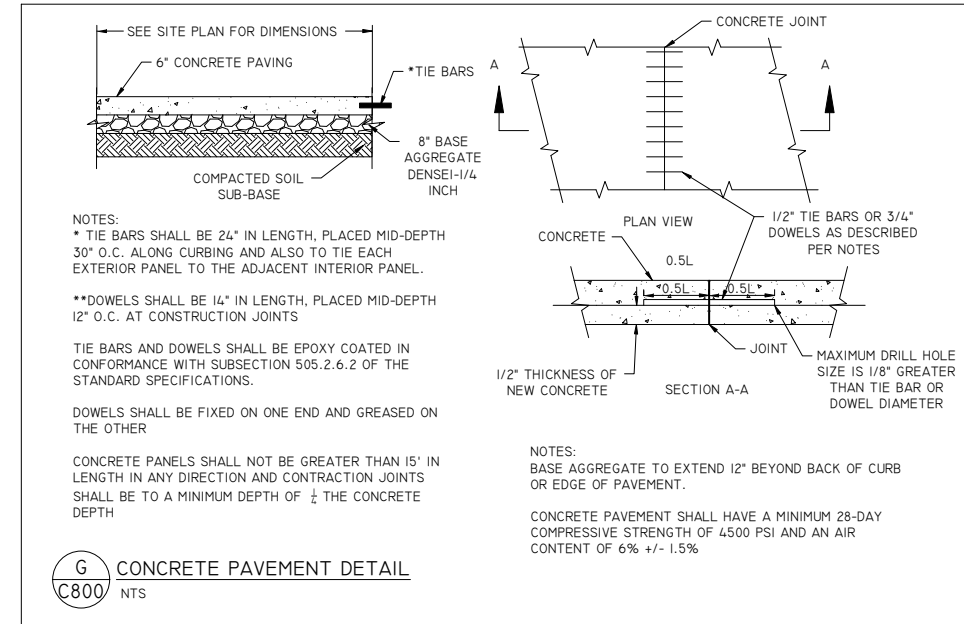
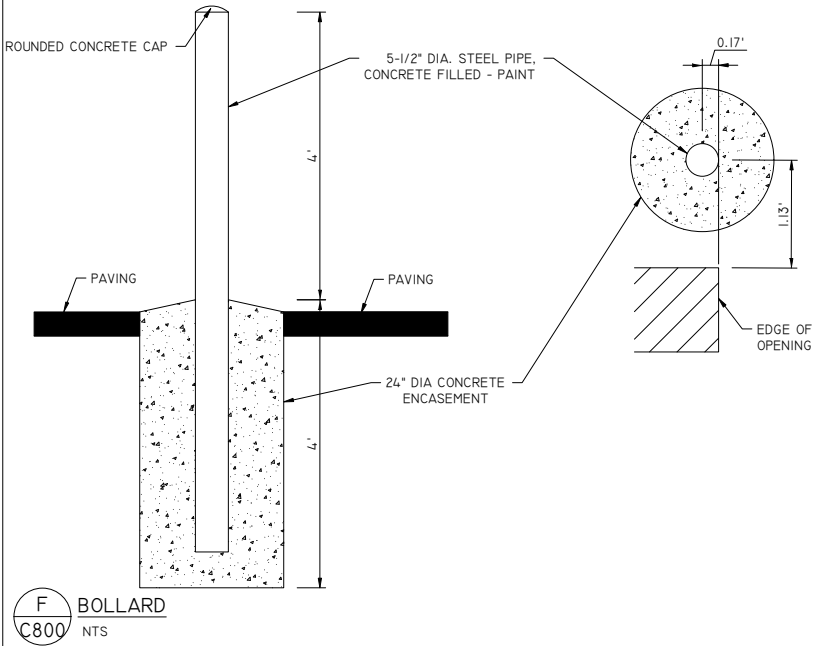
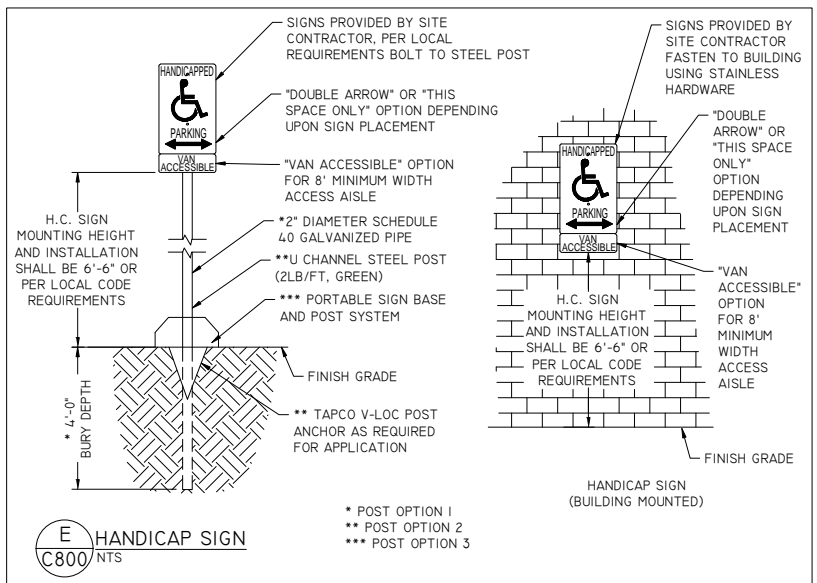
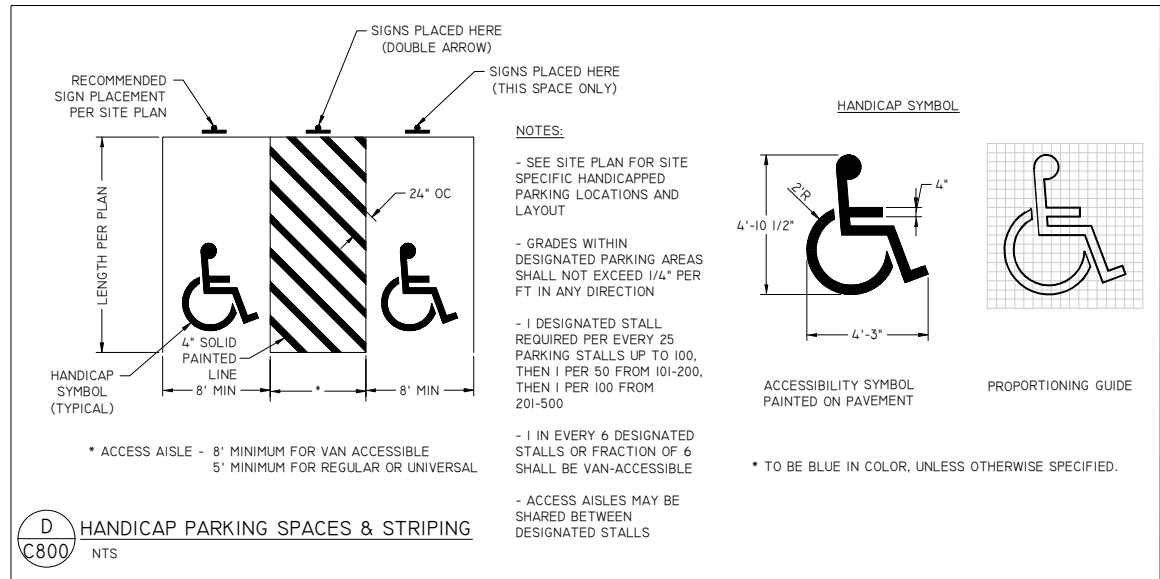
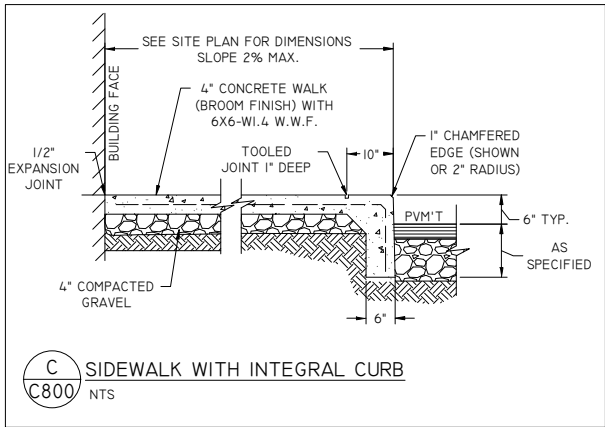
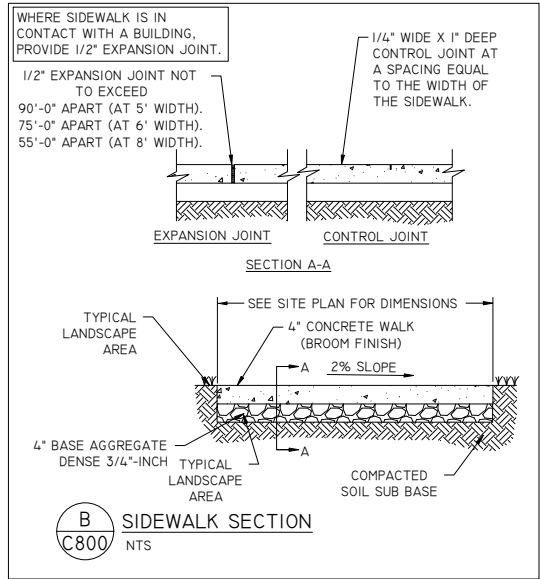
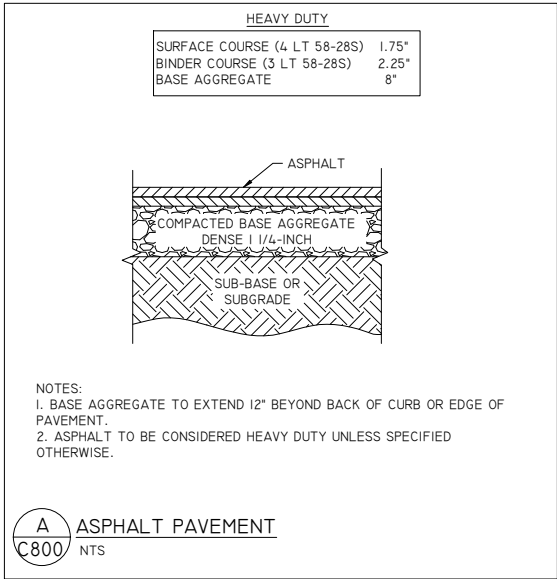


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**UTILITY PLAN**  
TANN CORP  
OAK GROVE ROAD  
KAUKAUNA, WISCONSIN

**REI**  
REI No. 9874  
SHEET C300

DRAWING FILE: P:\9800-9899\9874 - TANN CORP - LOT 5 IND PARK\DWG\PLANS\9874-C800-SITE DETAILS.DWG LAYOUT: C800  
PLOTTED: JAN 13, 2022 - 2:11PM PLOTTED BY: NATHANP



**REI Engineering, INC.**  
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**CIVIL & ENVIRONMENTAL  
ENGINEERING, SURVEYING**

NO SCALE

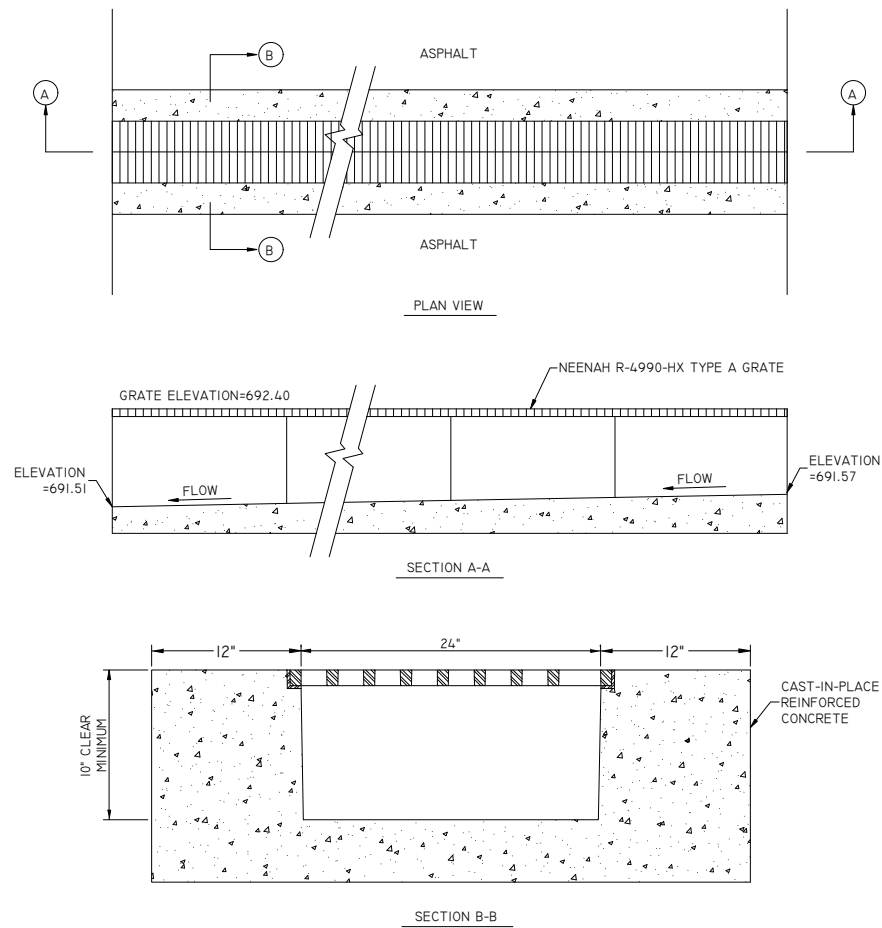
DATE	REVISION	BY	CHKD	SURVEYED BY: JLR,JJM	DESIGNED BY: GSW	SURVEY DATE: 06/22/21
				SURVEY CHKD BY: JWP	CIVIL CHKD BY: JJB	CIVIL DATE: 01/11/22
				SURVEY APVD BY: JWP	CIVIL APVD BY: JJB	DRAWN BY: NAP

**SITE DETAILS**  
TANN CORP  
OAK GROVE ROAD  
KAUKAUNA, WISCONSIN

**REI**  
REI No. 9874  
SHEET C800

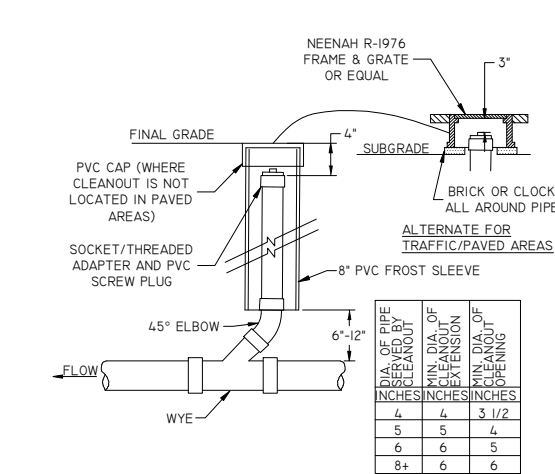


DRAWING FILE: P:\9800-9899\9874 - TANN CORP - LOT 5 IND PARK\DWG\PLANS\9874-C820-UTILITY DETAILS.DWG LAYOUT: C820  
PLOTTED: JAN 13, 2022 - 2:12PM PLOTTED BY: NATHAN

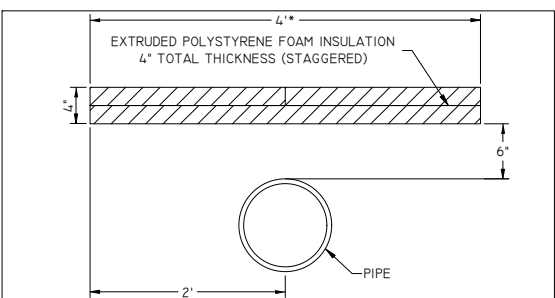


**A** OPEN-ENDED TRENCH DRAIN  
C820 NTS

NOTE: SOUTH END OF TRENCH DRAIN TO BE OPEN - FORM CONCRETE TO FLOW FROM NORTH TO SOUTH.

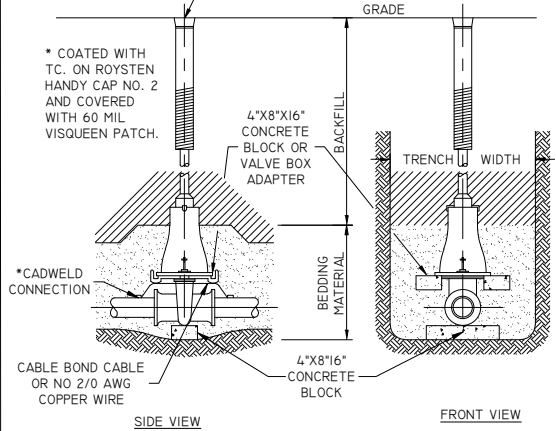


**B** CLEANOUT  
C820 NTS

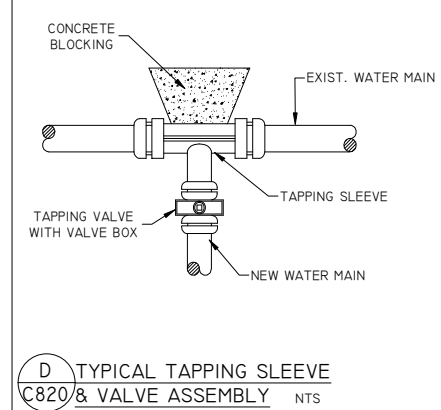


\*WIDTH OF INSULATION SHALL INCREASE X FT. PER EVERY X FT. OF VERTICAL SEPARATION.

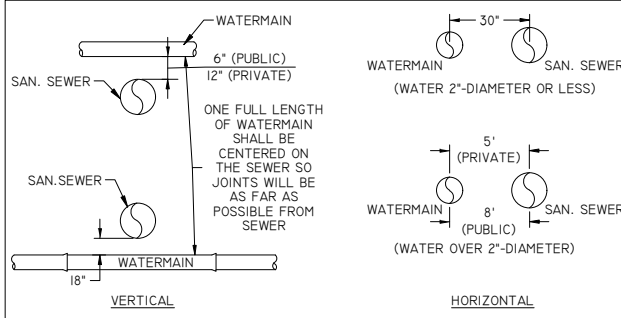
**E** PIPE INSULATION  
C820 NTS



**C** GATE VALVE BOX SETTING  
C820 NTS

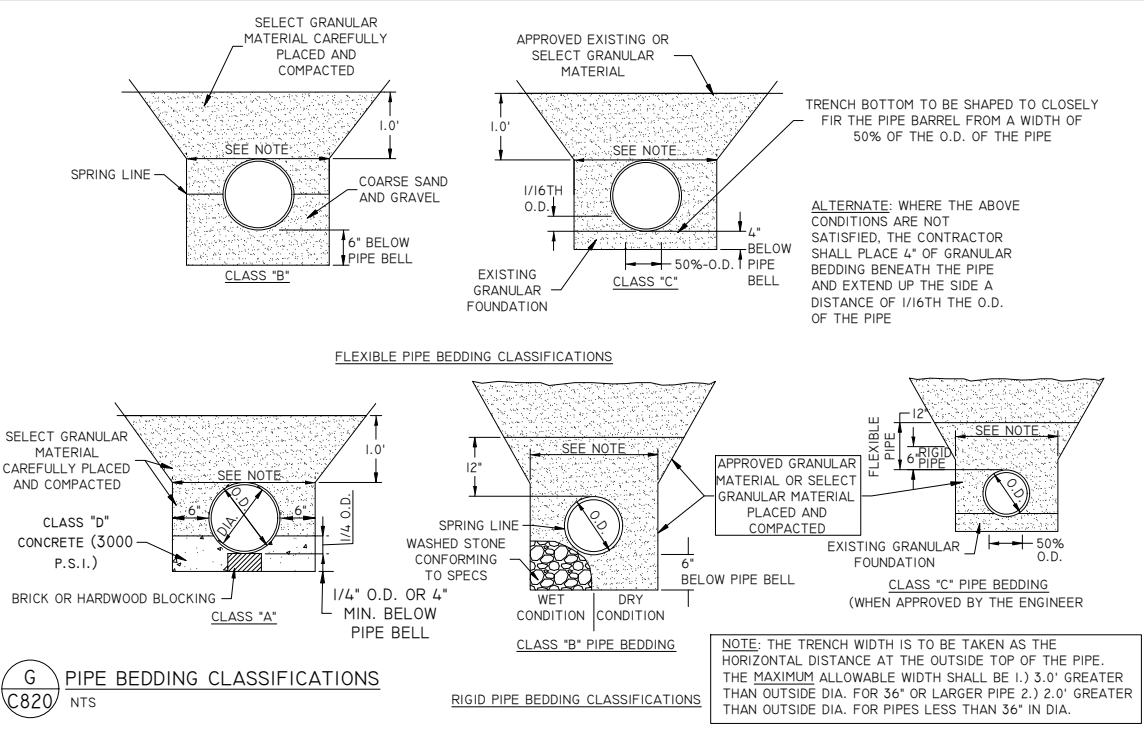


**D** TYPICAL TAPPING SLEEVE & VALVE ASSEMBLY  
C820 NTS



NOTES:  
1. WHEN THE ABOVE SEPARATIONS CANNOT BE MAINTAINED, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO ENCASE THE SEWER IN CONCRETE.  
2. NO PRIVATE WATER MAIN OR WATER SERVICE SHALL BE INSTALLED WITHIN 6" OF A STORM SEWER. PUBLIC WATER MAIN MUST MEET THE SAME HORIZONTAL AND VERTICAL SEPARATION DISTANCES AS REQUIRED FOR SANITARY SEWER.

**F** SEWER / WATERMAIN SEPARATION DISTANCE  
C820 NTS



DATE	REVISION	BY	CHKD	SURVEYED BY: JLR,JJM	DESIGNED BY: GSW	SURVEY DATE: 06/22/21
				SURVEY CHKD BY: JWP	CIVIL CHKD BY: JJB	CIVIL DATE: 01/11/22
				SURVEY APVD BY: JWP	CIVIL APVD BY: JJB	DRAWN BY: NAP



DRAWING FILE: P:\9800-9899\9874 - TANN CORP - LOT 5 IND PARK\DWG\LANS\9874-C900-SPECS.DWG LAYOUT: C900  
PLOTTED: JAN 13, 2022 - 2:12PM PLOTTED BY: NATHANP

GENERAL NOTES/SPECIFICATIONS																																							
<p>1. SITE USAGE WILL BE PERMITTED ONLY WITHIN REASONABLE LIMITS TO FACILITATE CONSTRUCTION OF PROPOSED IMPROVEMENTS AND THE CONTRACTOR SHALL NOT UNREASONABLY ENCUMBER THE PREMISES WITH EQUIPMENT AND MATERIALS. MATERIAL STORAGE SHALL BE CONFINED TO SUCH LIMITS AS MAY BE JOINTLY AGREED UPON BY OWNER AND CONTRACTOR.</p> <p>2. ALL SUB-CONTRACTORS SHALL BE UNDER THE DIRECTION OF THE GENERAL CONTRACTOR (OR OWNER'S REPRESENTATIVE) WHO WILL BE HELD RESPONSIBLE FOR THE COORDINATION OF ALL WORK ON THIS PROJECT AND THE PROPER EXECUTION OF THE SAME.</p> <p>3. THE CONTRACTOR SHALL FURTHER ENFORCE THE OWNER'S INSTRUCTIONS OF SUCH NATURE, INCLUDING PARKING, USE OF ROADS, SAFE ACCESS TO FACILITIES, FIRE PREVENTION, AND PROJECT PHASING, WHICH THE OWNER MAY DEEM NECESSARY OR DESIRABLE ON THE OWNER'S PROPERTY.</p> <p>4. CONTRACTOR SHALL KEEP A CLEAN SITE DURING CONSTRUCTION AND THROUGH FINAL ACCEPTANCE.</p> <p>5. ALWAYS FOLLOW WRITTEN DIMENSIONS. DO NOT SCALE. IF DISCREPANCY EXISTS, CONTACT THE ENGINEER.</p> <p>6. REMOVE ALL TREES WITHIN THE GRADING LIMITS, INCLUDING ROOT STRUCTURES, EXCEPT THOSE SPECIFICALLY NOTED TO REMAIN AND THOSE ON PROPERTY LINES. DO NOT CLEAR SITE PRIOR TO COORDINATING WITH THE OWNER TO LOCATE ALL TREES TO REMAIN.</p> <p>7. PROTECT TREES, UTILITY POLES, ABOVE AND BELOW GRADE UTILITIES, AND OTHER FEATURES THAT ARE TO REMAIN. THE REPAIR OF ANY DAMAGE TO FEATURES TO REMAIN IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR WITH NO PAYMENT DUE FOR SUCH REPAIRS.</p> <p>8. ADJUST ANY UTILITY ELEMENT MEANT TO BE FLUSH WITH GRADE (CLEAN OUT MANHOLES, CATCH BASINS, INLETS, WATER VALVES, LIGHT POLES, HYDRANTS , ETC.) THAT IS AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT. REFER TO THE SITE GRADING PLAN SHEET.</p> <p>9. PROTECT BENCHMARKS, REFERENCE SURVEY POINTS AND OTHER PROVIDED CONSTRUCTION STAKES.</p> <p>10. CALL DIGGER'S HOTLINE @ 811 OR 1-800-242-8511 AT LEAST 3 WORKING DAYS PRIOR TO EXCAVATING.</p> <p>11. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION, AND IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION.</p> <p>12. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND COORDINATING ALL PROPOSED UTILITY RUNS, INSTALLATIONS, AND RELOCATIONS.</p> <p>13. NOTIFY ELECTRIC UTILITY AT LEAST ONE WEEK PRIOR TO WORKING IN AREAS WHERE UTILITY POLES EXIST. UTILITY COMPANY WILL PROTECT POLES AS NECESSARY.</p> <p>14. DURING CONSTRUCTION THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR INSPECTION AND DOCUMENTATION OF THE EROSION CONTROL DEVICES AS REQUIRED BY THE WPDES PERMIT. IF CHANGES TO THE EROSION CONTROL PLAN ARE REQUIRED, THE CONTRACTOR SHALL RECORD THOSE CHANGES ON THE PLAN. UPON COMPLETION OF WORK AND PRIOR TO LEAVING THE SITE, THE CONTRACTOR AND OWNER'S DESIGNEE SHALL COORDINATE ONGOING RESPONSIBILITY UNTIL THE SITE'S WPDES PERMIT IS TERMINATED BY THE WDNR.</p> <p>15. EROSION CONTROL DEVICES SHALL ABIDE BY THE WDNR CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL STANDARDS. <a href="https://DNR.WI.GOV/TOPIC/STORMWATER/STANDARDS/CONST_STANDARDS.HTML">HTTPS://DNR.WI.GOV/TOPIC/STORMWATER/STANDARDS/CONST_STANDARDS.HTML</a></p> <p>16. CONFIRM THAT ALL TOPSOIL HAS BEEN STRIPPED FROM AREAS TO RECEIVE EMBANKMENT BEFORE PLACING EMBANKMENT MATERIAL.</p> <p>17. EMBANKMENT MATERIAL SHALL BE EXCAVATED SITE MATERIAL AND/OR IMPORTED MATERIAL DEEMED SUITABLE BY THE OWNER AND OWNER'S REPRESENTATIVE, AND CONFORM TO THE REQUIREMENTS OF SUB-SECTION 207.2 OF THE WISDOT STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL MODIFY WATER CONTENT OF THE MATERIAL AS NECESSARY TO OBTAIN SPECIFIED COMPACTION FOR ALL EMBANKMENT MATERIAL.</p> <p>18. CONSTRUCT ALL EMBANKMENT THAT WILL SUPPORT ROADWAYS OR ASPHALT PARKING IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF SUB-SECTION 207.3.6.3 (SPECIAL COMPACTION) OF THE WISDOT STANDARD SPECIFICATIONS EXCEPT: THE MAXIMUM DENSITY SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D1557, WITH METHOD B OR C; AND MAXIMUM LIFT THICKNESS SHALL BE 8 INCHES FOR ALL SOILS, GRANULAR, OR COHESIVE.</p> <p>19. CONSTRUCT UTILITY TRENCHES IN EMBANKMENT AREAS AFTER CONSTRUCTION OF EMBANKMENT.</p> <p>20. BORROW MATERIAL SHALL BE IMPORTED MATERIAL MEETING THE REQUIREMENTS OF SECTION 208.2 OF THE WISDOT STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL IDENTIFY ITS BORROW SOURCES TO THE OWNER'S CONSTRUCTION REPRESENTATIVE AT LEAST TWO WEEKS IN ADVANCE OF HAULING MATERIAL TO THE PROJECT SITE SO THE OWNER'S CONSTRUCTION REPRESENTATIVE CAN OBTAIN SAMPLES AND PERFORM THE DESIRED TESTING.</p> <p>21. STRUCTURAL FILL IS REQUIRED IN ALL AREAS THAT WILL SUPPORT PRESENT OR FUTURE BUILDING STRUCTURES, AND WITHIN AREAS EXTENDING DOWNWARD AND OUTWARD FROM THE BUILDING LIMITS AT FINISHED GRADE ON A 1-TO-1 (HORIZONTAL TO VERTICAL) SLOPE TO THE BOTTOM OF THE FILL. CONFIRM THAT ALL UNSUITABLE MATERIAL HAS BEEN REMOVED FROM AREAS TO RECEIVE STRUCTURAL FILL BEFORE PLACING MATERIAL. SUB GRADES MAY NOT RECEIVE STRUCTURAL FILL IF FROZEN, AND FROZEN STRUCTURAL FILL IS NOT ACCEPTABLE FOR USE. PROVIDE ADEQUATE ADVANCED NOTIFICATION, ACCESS, EQUIPMENT, AND OPERATOR TO PERMIT TESTING AGENCY TO OBSERVE COMPACTING OF SUB GRADE PRIOR TO PLACEMENT OF STRUCTURAL FILL MATERIAL. PROVIDE ADEQUATE ADVANCE NOTIFICATION, ACCESS AND COOPERATION TO TESTING AGENCY TO PERFORM DENSITY TESTING ON EACH LIFT OF FILL PLACED, PRIOR TO PLACING FILL ABOVE THE LIFT. THE TESTING FREQUENCY WILL BE DETERMINED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE. CONSTRUCT ALL STRUCTURAL FILL IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF SUB-SECTION 207.3.6.3 (SPECIAL COMPACTION) OF THE WISDOT STANDARD SPECIFICATIONS EXCEPT: THE MAXIMUM DENSITY SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D1557, WITH METHOD B OR C; ALL LIFTS SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D1557; MAXIMUM LIFT THICKNESS SHALL BE 8 INCHES FOR ALL SOILS, GRANULAR, OR COHESIVE; THE LIMIT OF STRUCTURAL FILL FOR PURPOSES OF COMPACTION REQUIREMENTS IS DEFINED AS THE AREA ENCOMPASSED BY PLANS EXTENDING DOWNWARD AND OUTWARD FROM THE EDGES OF THE STRUCTURE OR CONCRETE SLAB AT 45-DEGREE ANGLES RELATIVE TO HORIZONTAL (I.E. 1:1 SLOPES).</p> <p>22. THE CONTRACTOR SHALL PREPARE THE SITE TO SUPPORT THE PROPOSED SURFACE PER SECTION 211 OF THE WISDOT STANDARD SPECIFICATIONS.</p> <p>23. DENSE GRADED BASE SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF SECTION 305 OF THE WISDOT STANDARD SPECIFICATIONS FOR DENSE GRADED BASE, CONSISTENT WITH THE DESIGNATIONS SPECIFIED ON THE PLANS.</p> <p>24. HOT MIX ASPHALT PAVEMENT SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF SECTION 460 OF THE WISDOT STANDARD SPECIFICATIONS FOR PAVEMENT, CONSISTENT WITH THE DESIGNATIONS SPECIFIED ON THE PLANS.</p> <p>25. CONCRETE PAVING SHALL CONFORM TO SECTION 415 OF THE WISDOT STANDARD SPECIFICATIONS. CONCRETE CURB AND GUTTER SHALL CONFORM TO THE APPLICABLE REGULATIONS OF SECTION 601 OF THE WISDOT STANDARD SPECIFICATIONS. CONCRETE MATERIAL SHALL BE TYPE A OR A-FA AS DEFINED WITHIN SECTION 501 OF THE WISDOT STANDARD SPECIFICATIONS.</p> <p>26. HDPE STORM SEWER SHALL BE CORRUGATED EXTERIOR WITH SMOOTH INTERIOR AND SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M 294 TYPE S, ASTM F667, ASTM F405. END SECTIONS FOR CULVERTS SHALL BE OF THE SAME MATERIAL TYPE AS THE PIPE TO WHICH THE APRON END WALL WILL BE CONNECTED, EXCEPT STEEL END SECTIONS MAY BE USED FOR HDPE PIPE. INSTALL HDPE PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 608 OF THE WISDOT STANDARD SPECIFICATIONS.</p> <p>27. REINFORCED CONCRETE PIPE SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF SUB-SECTION 608.2 OF THE WISDOT STANDARD SPECIFICATIONS. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE CLASS III OR STRONGER.</p> <p>28. NON-PRESSURE POLYVINYL CHLORIDE PIPE SHALL BE SDR 35 OR SCHEDULE 40 PVC PIPE. ALL BENDS OR OTHER FITTINGS SHALL BE SCHEDULE 40.</p> <p>29. POLYVINYL CHLORIDE PIPE FOR PRESSURE APPLICATIONS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C900, PRESSURE CLASS 150.</p> <p>30. DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST REVISION OF ANSI A21.51 (AWWA C151). DUCTILE IRON PIPE SHALL BE CEMENT-MORTAR LINED AND COATED IN ACCORDANCE WITH THE LATEST REVISION OF ANSI A21.4 (AWWA C104). ALL DUCTILE IRON PIPE SHALL BE PRESSURE CLASS 350 UNLESS OTHERWISE SPECIFIED.</p> <p>31. PIPE INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE LATEST EDITION OF THE WISCONSIN SEWER &amp; WATER SPECIFICATIONS AND ALL CURRENT SUPPLEMENTAL SPECIFICATIONS AND ADDENDA.</p> <p>32. PIPE INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH SPS 382.30(11)(C)2 AS REQUIRED BY SPS 382.30(11), SPS 382.36(7) &amp; SPS 382.40(8).</p> <p>33. RIPRAP SHALL CONFORM TO THE REQUIREMENTS OF SECTION 606 OF THE WISDOT STANDARD SPECIFICATIONS, WITH THE GRADE BEING SPECIFIED ON THE PLANS. REFER TO SECTION 645 OF THE WISDOT STANDARD SPECIFICATIONS REGARDING GEOTEXTILE FABRIC FOR RIPRAP.</p> <p>34. PAVEMENT MARKING PAINT SHALL BE PRE-MIXED WATERBORNE EMULSION APPLIED TO A CLEAN SURFACE AT MANUFACTURER'S RATES. CONFIRM COLOR WITH OWNER PRIOR TO APPLICATION. PAVEMENT MARKINGS PLACED WITHIN THE PUBLIC RIGHT OF WAY SHALL CONFORM TO THE REQUIREMENTS OF SECTION 646 OF THE WISDOT STANDARD SPECS (EPOXY).</p> <p>35. AFTER FINAL STABILIZATION, ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF LEGALLY OFFSITE.</p> <p>36. AT A MINIMUM RESTORE SITE BY SEEDING &amp; MULCHING ALL DISTURBED AREAS TO BE VEGETATED AND ENSURE ESTABLISHMENT OF ADEQUATE VEGETATION. SEED IS TO BE OF A SINGLE URBAN LAWN MIX TYPE INTENDED FOR THE EXISTING SITE SOILS AND CONFORMING WITH SECTION 630 OF THE WISDOT STANDARD SPECIFICATION.</p> <p>37. SITE AND IMPORTED TOPSOIL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF SECTION 625 OF THE WISDOT STANDARD SPECIFICATIONS, GRADED FREE OF STONES AND LUMPS LARGER THAN 1 INCH AND FREE OF ROOTS, VEGETATION, AND OTHER UN-DECOMPOSED ORGANIC MATERIAL.</p> <p>38. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING OF ALL EXCESS AND UNUSED MATERIALS FROM THE SITE FOLLOWING COMPLETION OF THEIR WORK.</p>																																							
REI Engineering, INC. 4080 N. 20TH AVENUE WAUSAU, WISCONSIN 54401 PHONE: 715.675.9784 FAX: 715.675.4060 EMAIL: MAIL@REIENGINEERING.COM						CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING				<table><tr><td>DATE</td><td>REVISION</td><td>BY</td><td>CHKD</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>	DATE	REVISION	BY	CHKD													<table><tr><td>SURVEYED BY: JLR,JJM</td><td>DESIGNED BY: GSW</td><td>SURVEY DATE: 06/22/21</td></tr><tr><td>SURVEY CHKD BY: JWP</td><td>CIVIL CHKD BY: JJB</td><td>CIVIL DATE: 01/11/22</td></tr><tr><td>SURVEY APVD BY: JWP</td><td>CIVIL APVD BY: JJB</td><td>DRAWN BY: NAP</td></tr></table>	SURVEYED BY: JLR,JJM	DESIGNED BY: GSW	SURVEY DATE: 06/22/21	SURVEY CHKD BY: JWP	CIVIL CHKD BY: JJB	CIVIL DATE: 01/11/22	SURVEY APVD BY: JWP	CIVIL APVD BY: JJB	DRAWN BY: NAP	SITE SPECIFICATIONS TANN CORP OAK GROVE ROAD KAUKAUNA, WISCONSIN		 REI No. 9874 SHEET C900
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