

PROJECT

PROJECT: Waukesha Water Utility

0 Chapman Drive Construction Plans

OWNER: City of Waukesha

PROJECT ISSUE DATE: February 25, 2005



10505 Corporate Drive, Pleasant Prairie, WI 53158 phone: 262.857.8101 web: www.kuenyarch.com

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MEP: RTM Engineering Consultants Phone: 414.273.1432 Address: 316 N Milwaukee Street, Suite 560 Milwaukee, WI 53202 Engineer of Record - Timothy Larsen, PE

REVISIONS

Table with columns: REV #, DESCRIPTION, DATE

KEY PLAN



EXISTING CONDITIONS LEGEND

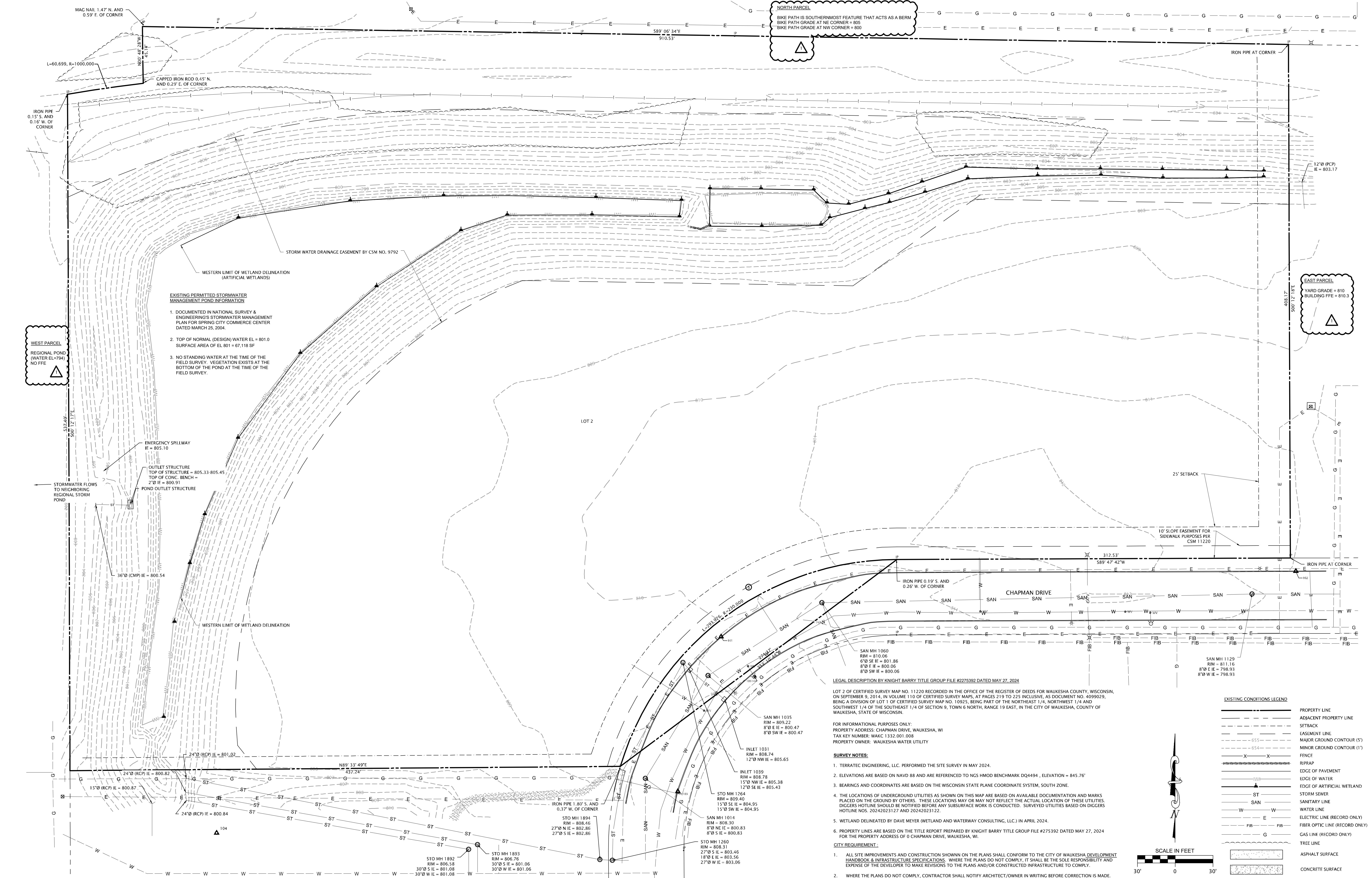
- Legend items: PROPERTY LINE, ADJACENT PROPERTY LINE, SETBACK, EASEMENT LINE, MAJOR GROUND CONTOUR (5'), MINOR GROUND CONTOUR (1'), FENCE, RIPRAP, EDGE OF PAVEMENT, EDGE OF WATER, EDGE OF ARTIFICIAL WETLAND, STORM SEWER, SANITARY LINE, WATER LINE, ELECTRIC LINE (RECORD ONLY), FIBER OPTIC LINE (RECORD ONLY), GAS LINE (RECORD ONLY), TREE LINE, ASPHALT SURFACE, CONCRETE SURFACE, PROPERTY CORNER, LIGHT POLE, UTILITY PEDESTAL, STORM MANHOLE, SANITARY MANHOLE, CURB CATCH BASIN, CIRCULAR/SQUARE CATCH BASIN, HYDRANT, ELECTRIC TRANSFORMER, WATER VALVE, CONTROL POINT, BENCHMARK



NORTH PARCEL BIKE PATH IS SOUTHERMOST FEATURE THAT ACTS AS A BERM BIKE PATH GRADE AT NE CORNER = 805 BIKE PATH GRADE AT NW CORNER = 800

EAST PARCEL HARD GRADE = 810 BUILDING FFE = 810.3

WEST PARCEL REGIONAL POND (WATER EL = 794) NO FFE



- GENERAL NOTES FOR TERRATEC'S CIVIL PLANS (C1 - C7)
1. SUMMARY OF WORK: PROJECT WORK SHALL INCLUDE INSTALLATION/MAINTENANCE/REMOVAL OF EROSION CONTROLS, DEMOLITION/DISPOSAL OF ITEMS TO BE REMOVED, UTILITY PROTECTIONS, RELOCATION, REMOVAL, PROTECTION OF ITEMS TO REMAIN, CLEARING, GRUBBING, TOPSOIL STRIPPING, GRADING, PAVING & STURPING, STORM/SANITARY/WATER UTILITY CONSTRUCTION, AND SIDEWALK CONSTRUCTION AS SHOWN ON PROJECT DRAWINGS. CONSTRUCTION DETAILS ARE INCLUDED IN THE PLAN SET. NOTE: SEE ARCHITECT PLANS FOR BUILDING/PLANTERS/RETAINING WALL DETAILS. SEE INTERIOR PLUMBER PLANS FOR UTILITY CONNECTIONS TO BUILDING, AND SEE LANDSCAPE PLAN FOR TREES, SHRUBS, AND GRASS.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES/ORDINANCES/LAWS/REQUIREMENTS. WHEN IN CONFLICT, THE MORE RESTRICTIVE SHALL PREVAIL. NOTIFY ARCHITECT/OWNER PRIOR TO CONSTRUCTION COMMENCEMENT FOR ANY AND ALL CONFLICTS RESOLUTION.
3. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE LATEST EDITIONS OF WISCONSIN DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION (WSDOT SPECIFICATIONS), STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK, THE LOCAL MUNICIPALITY'S DEPARTMENT OF PUBLIC WORKS TECHNICAL STANDARDS, MUNICIPALITY STANDARDS, THE SITE GEOTECHNICAL REPORT (SITE GEOTECHNICAL REPORT) THAT WAS PREPARED BY OTHERS AND INCLUDED IN TECHNICAL SPECIFICATIONS, AND ANY ENVIRONMENTAL REPORTS/PERMITS.
4. ALL WORK SHALL BE CONSTRUCTED TO THE SATISFACTION OF OWNER AND ARCHITECT.
5. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, TERRATEC ENGINEERING, ARCHITECT, AND THEIR AGENTS FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION AND TESTING OF THE CIVIL WORK INCLUDED ON THESE CIVIL PLANS.
6. TERRATEC ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THESE PLANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TERRATEC ENGINEERING.
7. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY WORK, PERMITS AND INSPECTIONS FOR THE CONSTRUCTION OF THESE CIVIL PLANS INCLUDING, BUT NOT LIMITED TO, TRAFFIC CONTROL, DEMOLITION, DISPOSAL, UTILITY REMOVAL/RELOCATION/CONSTRUCTION, SUBGRADE IMPROVEMENTS, DEWATERING, GRADING/PAVING, UTILITY CONSTRUCTION AND CONNECTS TO EX UTILITIES, SIDEWALK CONNECTION, ETC.
8. CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS AND OTHER DISCIPLINE PLANS FOR ADDITIONAL DESIGN INFORMATION. CONTRACTOR SHALL EXAMINE ALL APPROPRIATE PLANS/REPORTS AND NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION COMMENCEMENT SO THAT PROPER MODIFICATIONS CAN BE MADE. IF CONTRACTOR (OR ITS SUBCONTRACTORS) COMMENCES WORK (I.E., EQUIPMENT MOBILIZATION TO SITE), CONTRACTOR ACCEPTS RESPONSIBILITY/EXPENSES FOR ANY CHANGES TO BE PERFORMED AS A RESULT OF DISCREPANCIES AT NO ADDITIONAL COST TO THE OWNER/ARCHITECT/ENGINEER.
9. CIVIL PROJECT DRAWING VERIFICATION: CONTRACTOR SHALL REVIEW SITE PLANS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES NOTED BETWEEN EXISTING SITE CONDITIONS AND PROJECT DRAWINGS, AND BETWEEN PROJECT DRAWINGS FOR UTILITY CONFLICTS, DRAINAGE/GRADING CONFLICTS, ETC.) SHALL BE NOTED TO THE ARCHITECT IN WRITING PRIOR TO CONSTRUCTION COMMENCEMENT. CHANGES IN WORK SCOPE SHALL BE MADE ACCORDINGLY. IF CONTRACTOR (OR ITS SUBCONTRACTORS) COMMENCES WORK (I.E., EQUIPMENT

- MOBILIZATION TO SITE), CONTRACTOR ACCEPTS RESPONSIBILITY/EXPENSES FOR ANY CHANGES TO BE PERFORMED AS A RESULT OF PROJECT DRAWING INCONSISTENCIES AT NO ADDITIONAL COST TO THE OWNER/ARCHITECT/ENGINEER.
10. UNDERGROUND UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY, AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERE TO. CONTRACTOR SHALL CALL DIGGERS HOTLINE A MINIMUM OF THREE DAYS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES. IN ADDITION, CONTRACTOR SHALL NOTIFY UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITY PRIOR TO CONSTRUCTION COMMENCEMENT.
11. ALL EXISTING UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ALL FEATURES. GIVE NOTICE TO UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF THEIR SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH WORK. DAMAGE TO UTILITIES THAT ARE TO REMAIN SHALL BE REPAIRED AT CONTRACTOR'S COST AT NO ADDITIONAL COST TO THE OWNER/ARCHITECT/ENGINEER.
12. PRIOR TO ANY CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL REFER TO, AND ADHERE TO THE RECOMMENDATIONS OF THE SITE GEOTECHNICAL REPORT AND ANY RELEVANT ENVIRONMENTAL ASSESSMENT REPORTS, NEITHER OF WHICH HAVE BEEN PREPARED BY TERRATEC (TERRATEC IS NEITHER THE PROJECT GEOTECHNICAL ENGINEER NOR ENVIRONMENTAL ENGINEER). CONTRACTOR SHALL ADHERE TO OSHA STANDARDS FOR WORKERS AND WORK PERFORMED. IF PREVIOUSLY UNIDENTIFIED HAZARDOUS, CONTAMINATED MATERIALS, ENVIRONMENTAL-RELATED CONDITIONS, OR UNEXPECTED SUBGRADE CONDITIONS ARE DISCOVERED, STOP WORK IMMEDIATELY AND NOTIFY THE OWNER/ARCHITECT FOR ACTION TO BE TAKEN. DO NOT RESUME WORK UNTIL SPECIFICALLY AUTHORIZED BY THE OWNER/ARCHITECT.
13. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CHECK WITH ARCHITECT AND OWNER IF A SITE GEOTECHNICAL REPORT IS AVAILABLE. IF AVAILABLE, CONTRACTOR SHALL PERFORM ALL DIGAVATIONS, DEWATERING, BACKFILLING (MATERIALS AND PLACEMENT)/COMPACTION, SUBGRADE CONSTRUCTION, ETC. IN ACCORDANCE WITH THE SITE GEOTECHNICAL REPORT. IF NOT AVAILABLE, CONTRACTOR IS EXCLUSIVELY RESPONSIBLE FOR THESE ACTIVITIES INCLUDING OBTAINING NECESSARY APPROVALS/PERMITS IN ACCORDANCE WITH STATE/FEDERAL REQUIREMENTS.
14. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSION OF BUILDINGS, ENTRANCES, VESTIBULES, STAIRS, RETAINING WALLS, RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
15. CONTRACTOR IS RESPONSIBLE FOR SITE SECURITY AND SAFETY. OWNER, ARCHITECT AND ENGINEER ASSUME NO RESPONSIBILITY FOR EITHER SITE SECURITY OR SAFETY.
16. THE MUNICIPALITY AND ARCHITECT SHALL HAVE THE RIGHT TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION OF THE IMPROVEMENTS DETAILED IN THESE CIVIL PLANS. CONTRACTOR TO PAY COORDINATE ALL INSPECTIONS. REJECTED CONSTRUCTION SHALL BE RECONSTRUCTED AT CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE OWNER/ARCHITECT/ENGINEER.
17. ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSES TO THE SATISFACTION TO THE OWNER/ARCHITECT AT NO ADDITIONAL COST TO THE OWNER/ARCHITECT/ENGINEER.

LEGAL DESCRIPTION BY KNIGHT BARRY TITLE GROUP FILE #2275392 DATED MAY 27, 2024
LOT 2 OF CERTIFIED SURVEY MAP NO. 11220 RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS FOR WAUKESHA COUNTY, WISCONSIN, ON SEPTEMBER 9, 2014, IN VOLUME 110 OF CERTIFIED SURVEY MAPS, AT PAGES 219 TO 225 INCLUSIVE, AS DOCUMENT NO. 4099029, BEING A DIVISION OF LOT 1 OF CERTIFIED SURVEY MAP NO. 10925, BEING PART OF THE NORTHEAST 1/4, NORTHWEST 1/4 AND SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 9, TOWN 6 NORTH, RANGE 19 EAST, IN THE CITY OF WAUKESHA, COUNTY OF WAUKESHA, STATE OF WISCONSIN.
FOR INFORMATIONAL PURPOSES ONLY:
PROPERTY ADDRESS: CHAPMAN DRIVE, WAUKESHA, WI
TAX KEY NUMBER: WAUK 1332.001.008
PROPERTY OWNER: WAUKESHA WATER UTILITY
SURVEY NOTES:
1. TERRATEC ENGINEERING, LLC, PERFORMED THE SITE SURVEY IN MAY 2024.
2. ELEVATIONS ARE BASED ON NAVD 88 AND ARE REFERENCED TO NGS 11000 BENCHMARK DQ4494, ELEVATION = 845.76'
3. BEARINGS AND COORDINATES ARE BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.
4. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THIS MAP ARE BASED ON AVAILABLE DOCUMENTATION AND MARKS PLACED ON THE GROUND BY OTHERS. THESE LOCATIONS MAY OR MAY NOT REFLECT THE ACTUAL LOCATION OF THESE UTILITIES. DIGGERS HOTLINE SHOULD BE NOTIFIED BEFORE ANY SUBSURFACE WORK IS CONDUCTED. SURVEYED UTILITIES BASED ON DIGGERS HOTLINE NOS. 202402132 AND 202402122.
5. WETLAND DELINEATED BY DAVE MEYER WETLAND AND WATERWAY CONSULTING, LLC IN APRIL 2024.
6. PROPERTY LINES ARE BASED ON THE TITLE REPORT PREPARED BY KNIGHT BARRY TITLE GROUP FILE #275392 DATED MAY 27, 2024 FOR THE PROPERTY ADDRESS OF 0 CHAPMAN DRIVE, WAUKESHA, WI.
CITY REQUIREMENT:
1. 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.
2. WHERE THE PLANS DO NOT COMPLY, CONTRACTOR SHALL NOTIFY ARCHITECT/OWNER IN WRITING BEFORE CORRECTION IS MADE.

- 18. EXISTING ITEMS TO REMAIN SHALL BE CAREFULLY PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO THESE ITEMS WILL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE OWNER/ARCHITECT/ENGINEER.
19. ALL WORK IN THE RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE MUNICIPALITY'S/COUNTY'S DEPARTMENT OF PUBLIC WORKS TECHNICAL STANDARDS OR STATE STANDARDS, WHICHEVER IS MORE RESTRICTIVE.
20. FIELD TILE CONNECTION - TILE LINES CROSSED BY A TRENCH/EXCAVATION SHALL BE REROUTED AND REPLACED WITH THE SAME MATERIAL AS THE STORM SEWER TO MAINTAIN FIELD TILE DRAINAGE.
21. CONTRACTOR SHALL CONFIRM EXISTING FINISHED FLOOR ELEVATION & EXISTING UTILITY TIE IN LOCATIONS/INVERTS PRIOR TO CONSTRUCTION. IF DIFFERENT THAN SHOWN ON PLANS, NOTIFY THE OWNER/ARCHITECT PRIOR TO WORK COMMENCEMENT. CHANGES IN WORK SCOPE SHALL BE MADE ACCORDINGLY. IF CONTRACTOR (OR ITS SUBCONTRACTORS) COMMENCES WORK (I.E., EQUIPMENT) MOBILIZATION TO SITE, CONTRACTOR ACCEPTS RESPONSIBILITY/EXPENSES FOR ANY CHANGES TO BE PERFORMED AS A RESULT OF PROJECT DRAWING INCONSISTENCIES AT NO ADDITIONAL COST TO THE OWNER/ARCHITECT/ENGINEER.
22. ALL WORK IN THE PUBLIC ROW REQUIRES A SEPARATE PERMIT FROM THE CITY OF WAUKESHA.
23. ALL SAWCUTS WITHIN THE PUBLIC RIGHT OF WAY SHALL BE FULL DEPTH.
24. ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE PER CITY OF WAUKESHA STANDARD SPECIFICATIONS.

Point Table with columns: Point #, Raw Description, Elevation, Northing, Easting



"The information shown on this drawing concerning type and location of underground utilities is not guaranteed to be accurate or all inclusive. The contractor is responsible for making his own determinations as to the type and location of underground utilities as may be necessary to avoid damage thereto."



SHEET INDEX table with columns: SHEET, DESCRIPTION

C-1

SHEET TITLE: Existing Conditions Map

PROJECT

PROJECT: Waukesha Water Utility

0 Chapman Drive Construction Plans

OWNER: City of Waukesha

PROJECT ISSUE DATE: February 25, 2005



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Engineer of Record - Timothy Larsen, PE

REVISIONS

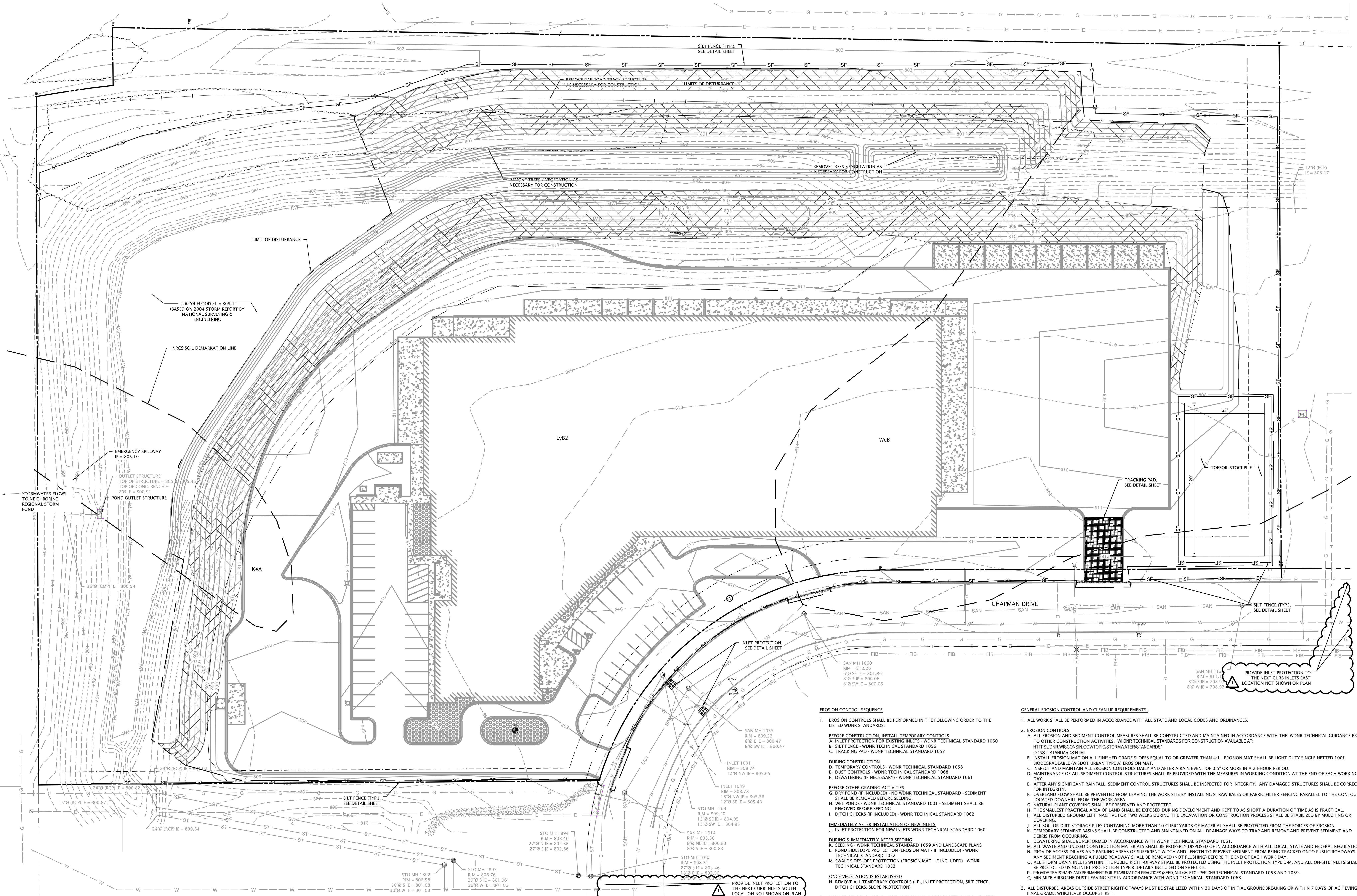
Table with columns: REV #, DESCRIPTION, DATE

KEY PLAN

SHEET

SHEET TITLE:

Site Prep & Erosion Control



- GENERAL NOTES: 1. DEMOLITION AND DISPOSAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF UTILITIES HAVING JURISDICTION OVER THIS WORK INCLUDING FEDERAL, STATE, COUNTY AND LOCAL MUNICIPALITY.

- PAVEMENT/FOOTINGS/SIDEWALKS/RAMP/S/STAIRS/POSTS/ETC. REMOVALS INCLUDE THE STRUCTURE AS WELL AS APPURTENANCES. RESULTANT HOLES AND EXCAVATIONS SHALL BE BACKFILLED PER SITE GEOTECHNICAL REPORT.

- ADDITIONAL NOTES: 1. CONTRACTOR SHALL STRIP TOPSOIL FROM AREAS TO BE GRADED AND PREPARE SUBGRADE IN ACCORDANCE WITH SITE GEOTECHNICAL REPORT PRIOR TO GRADING ACTIVITIES.

- PAVEMENT & FENCE REMOVAL - ALL OVERHEAD AND UNDERGROUND UTILITIES SHALL BE REMOVED WITHIN 24 HOURS OF THE START OF PAVING. MATERIAL WITHIN 2 INCHES OF FINISH GRADE IN AREAS OUTSIDE OF AREAS TO RECEIVE NEW PAVING, ALL POSTS & GATES SHALL BE REMOVED. RESULTANT POST HOLES SHALL BE FILLED PER SITE GEOTECHNICAL REPORT.

- EROSION CONTROL SEQUENCE: 1. EROSION CONTROLS SHALL BE PERFORMED IN THE FOLLOWING ORDER TO THE LISTED WDNR STANDARDS: BEFORE CONSTRUCTION, INSTALL TEMPORARY CONTROLS.

- GENERAL EROSION CONTROL AND CLEAN UP REQUIREMENTS: 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES.



PROPOSED CONDITIONS LEGEND, SCALE IN FEET, DIGGERS HOTLINE logo, and contact information.

C-2

PROJECT

PROJECT:
Waukesha Water Utility

0 Chapman Drive
Construction Plans

OWNER:
City of Waukesha

PROJECT ISSUE DATE:
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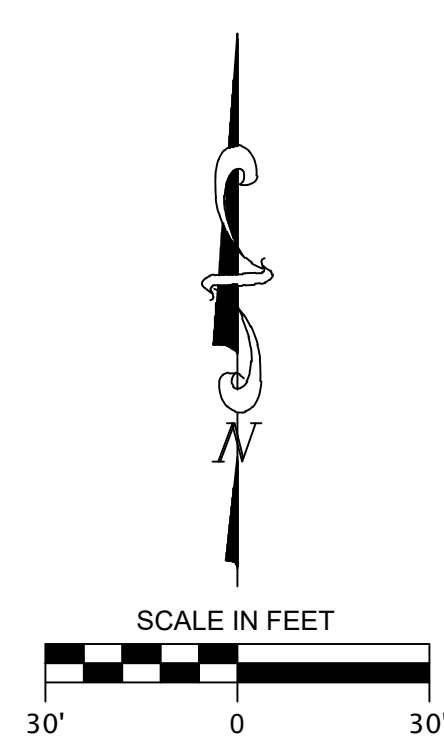
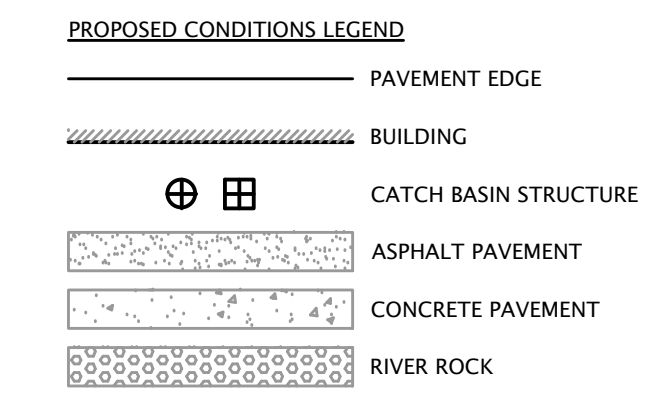
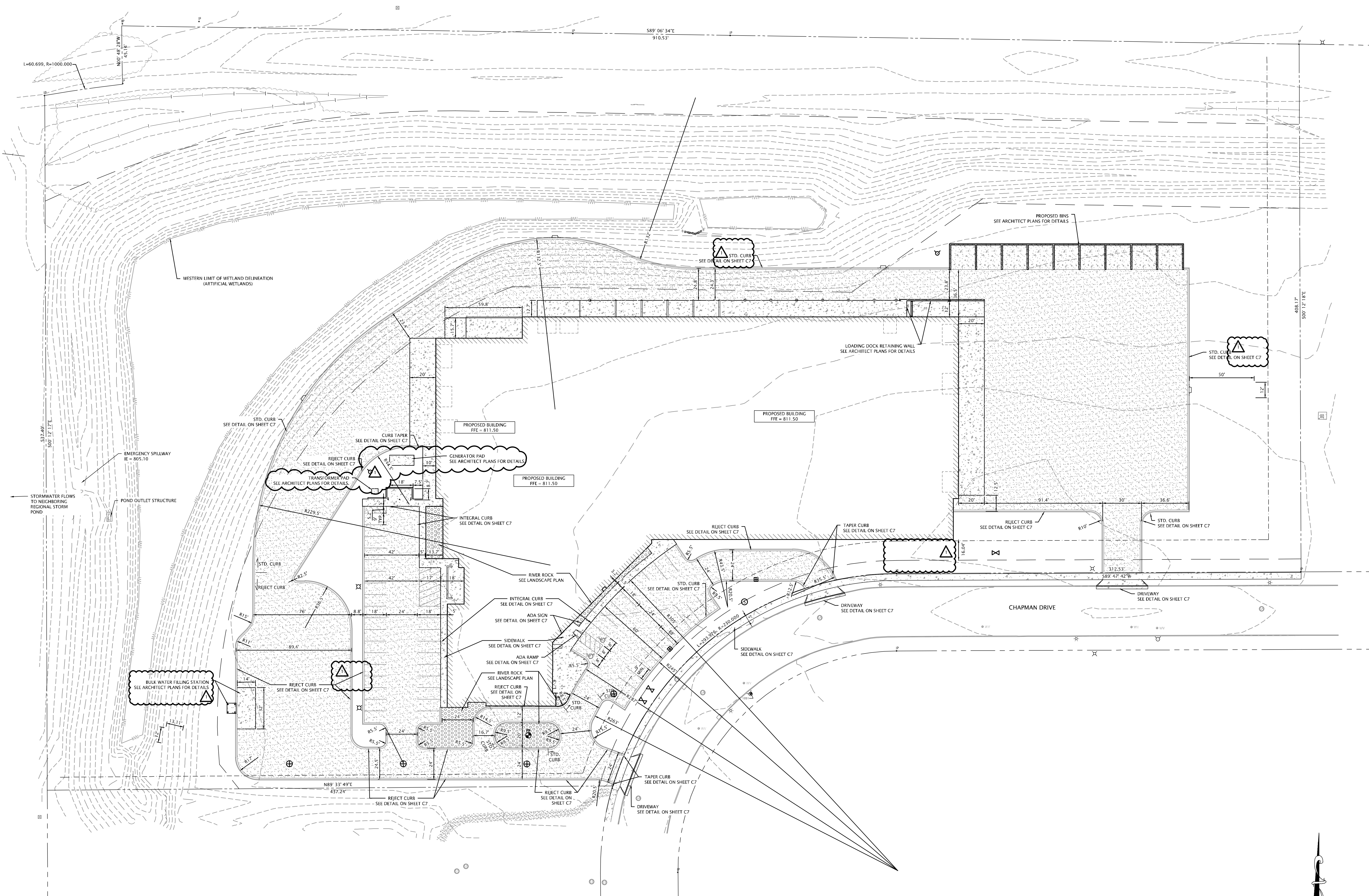
REVISIONS

REV #	DESCRIPTION	DATE

KEY PLAN

SHEET

SHEET TITLE:
Dimension Plan



- GENERAL NOTES**
- SEE SHEET C1 FOR EXISTING CONDITIONS LEGEND AND NOTES.
 - STANDARD CURB = LOW SIDE CURB; REJECT CURB = HIGH SIDE CURB. SEE SHEET C7 FOR DETAILS.
 - CONTRACTOR TO THOROUGHLY REVIEW ENVIRONMENTAL/GEOTECHNICAL REPORTS PRIOR TO CONSTRUCTION. CONTRACTOR SOLELY RESPONSIBLE FOR ACHIEVING OSHA REQUIREMENTS FOR WORKERS & WORK PERFORMED.
 - DIMENSIONS SHOWN ARE TO FACE OF CURB, UNLESS OTHERWISE STATED.

DIGGERS HOTLINE
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Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

The information shown on this drawing concerning type and location of underground utilities is not guaranteed to be accurate or all inclusive. The contractor is responsible for making his own determinations as to the type and location of underground utilities as may be necessary to avoid damage thereto.

PROJECT

PROJECT: Waukesha Water Utility
0 Chapman Drive
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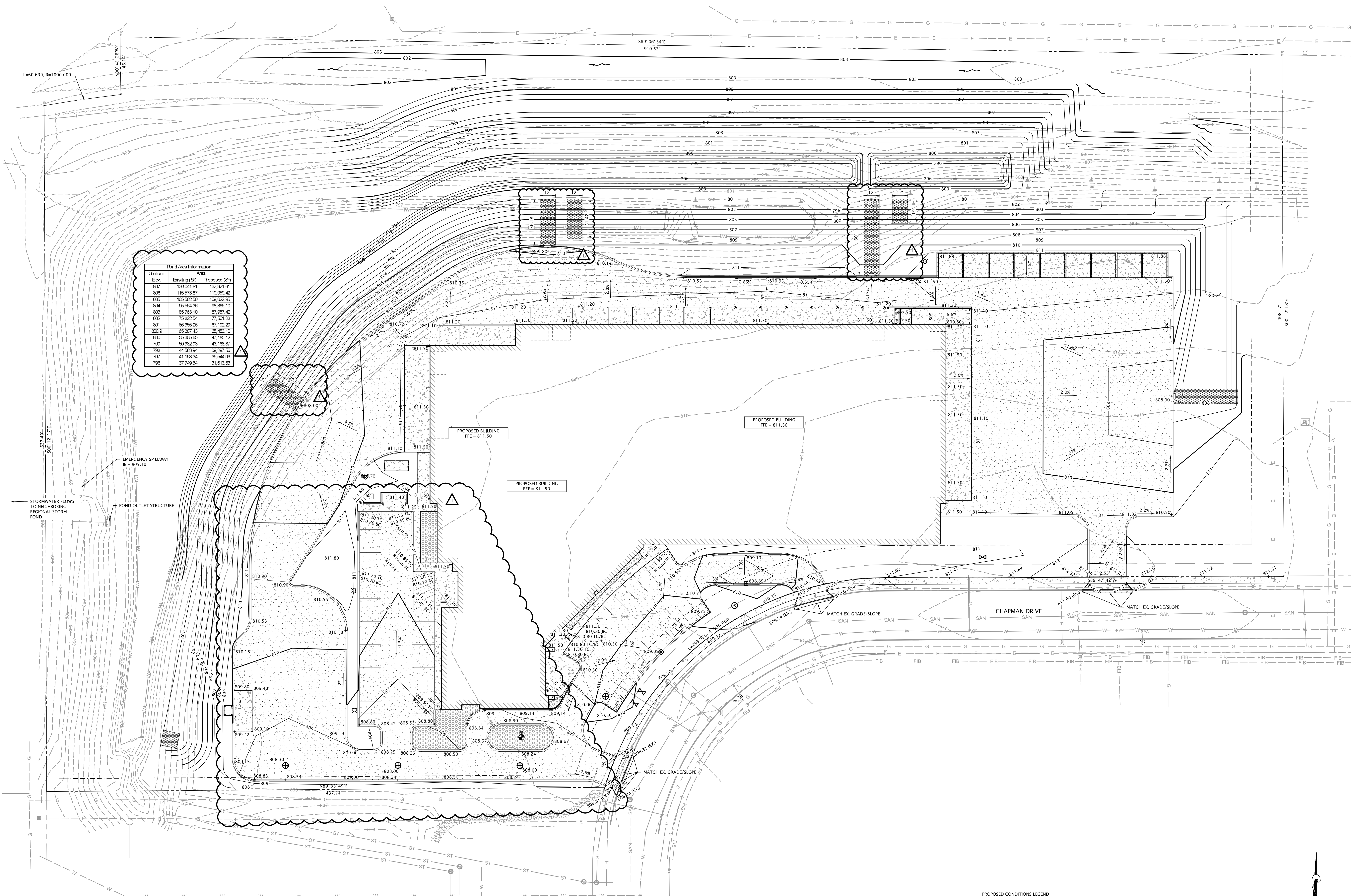
REVISIONS

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KEY PLAN

SHEET

SHEET TITLE: Grading & Paving Plan

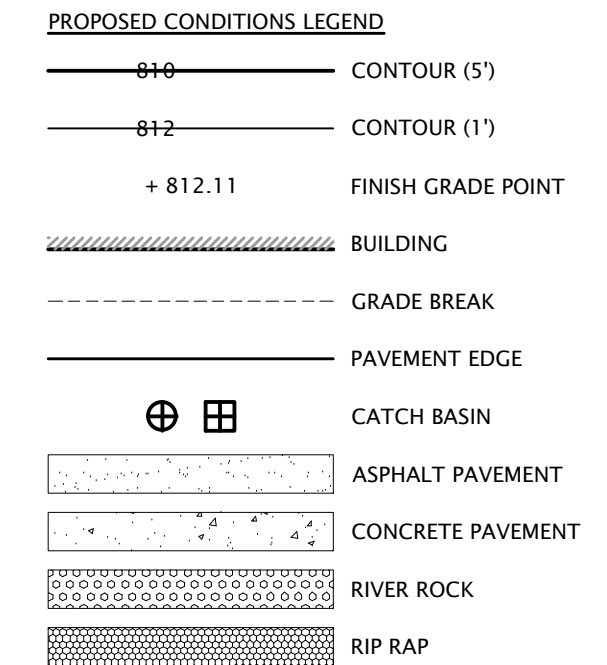


Pond Area Information table with columns: Contour, Elev., Existing (SF), Proposed (SF), Area. Lists data for contours 807 through 796.

- GENERAL GRADING/PAVING NOTES
1. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES...
2. CONTRACTOR SHALL VERIFY ALL GRADES...
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL/STATE/FEDERAL REQUIREMENTS...
4. SURGRADE TO BE PREPARED AS SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER...
5. ASPHALT PAVEMENT MINIMUM STRUCTURE (PER ARCHITECT):
12" CRUSHED AGGREGATE BASE COURSE - WISDOT SECTION 305, 3/4" CRUSHED STONE
4" ASPHALTIC HOT MIX BINDER COURSE - WISDOT SECTION 460, E-3
2" ASPHALT HOT MIX SURFACE COURSE - WISDOT SECTION 460, E-3
DRIVEWAY APRON AND CONCRETE PAVEMENT LOCATIONS (PER ARCHITECT):
8" CONCRETE ON 6" CRUSHED AGGREGATE BASE COURSE
SIDEWALKS
6" CONCRETE ON 6" CRUSHED AGGREGATE BASE COURSE

- GENERAL POND GRADING NOTES
1. PRIOR TO OTHER CONSTRUCTION ACTIVITIES WITHIN THE POND AREA, ANY STANDING WATER SHALL BE REMOVED...
2. PRIOR TO GRADING THE POND, REMOVE VEGETATION (INCLUDING ROOT BALLS) AND STRIP TOPSOIL...
3. WITHIN THE EXISTING POND SIDESLOPE, PERFORM A SMALL TEST PIT (2-3 FEET IN DEPTH) TO DETERMINE IF THERE IS AN EXISTING POND LINER...
7. ALL WORK TO BE COMPLETED IN CONJUNCTION WITH ALL STATE AND LOCAL CODES AND ORDINANCES.
8. CONTRACTOR SHALL OBTAIN DRIVEWAY PERMIT FROM THE CITY OF WAUKESHA.
9. CONTRACTOR TO NOTIFY CITY ENGINEERING DEPARTMENT 5-DAYS PRIOR TO WORK WITHIN THE CITY RIGHT-OF-WAY.
10. LIMITS OF FINAL STREET PAVEMENT AND CURB & GUTTER REMOVAL AND REPLACEMENTS TO BE MARKED BY CITY ENGINEERING STAFF IN THE FIELD.

- GENERAL GRADING/PAVING NOTES (continued)
6. ASPHALTIC CONCRETE PAVING SPECIFICATIONS
CODES AND STANDARDS - THE PLACING, CONSTRUCTION AND COMPOSITION OF THE ASPHALTIC BASE COURSE AND ASPHALTIC CONCRETE SURFACING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 401, 405 AND 407 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, EDITION OF 1996. HEREAFTER, THIS PUBLICATION WILL BE REFERRED TO AS STATE HIGHWAY SPECIFICATIONS.
WEATHER LIMITATIONS - APPLY TACK COATS WHEN AMBIENT TEMPERATURE IS ABOVE 50° F (10° C) AND WHEN TEMPERATURE HAS NOT BEEN BELOW 30° F (-1° C) FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION. DO NOT APPLY WHEN BASE IS WET OR CONTAINS EXCESS OF MOISTURE. CONSTRUCT ASPHALTIC CONCRETE SURFACE COURSE WHEN ATMOSPHERIC TEMPERATURE IS ABOVE 40° F (4° C) AND WHEN BASE IS DRY AND WHEN WEATHER IS NOT RAINY. BASE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 30° F (-1° C).
GRADE CONTROL - ESTABLISH AND MAINTAIN REQUIRED LINES AND ELEVATIONS FOR EACH COURSE DURING CONSTRUCTION.
SURFACE PREPARATION - TO BE PREPARED PER SITE GEOTECHNICAL REPORT, NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.



- GENERAL NOTES
1. SEE SHEET C1 FOR GENERAL NOTES, EXISTING CONDITIONS NOTES/LEGEND.
2. ALL WORK IN THE PUBLIC ROW REQUIRES A SEPARATE PERMIT FROM THE CITY OF WAUKESHA.
3. ALL SAWCUTS WITHIN THE PUBLIC RIGHT OF WAY SHALL BE FULL DEPTH.
4. ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE PER CITY OF WAUKESHA STANDARD SPECIFICATIONS.



DIGGERS HOTLINE logo and contact information: Toll Free (800) 242-8511, Milwaukee Area (414) 259-1181, Hearing Impaired TDD (800) 542-2289, www.DiggersHotline.com. Includes a disclaimer about utility information accuracy.

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MEP

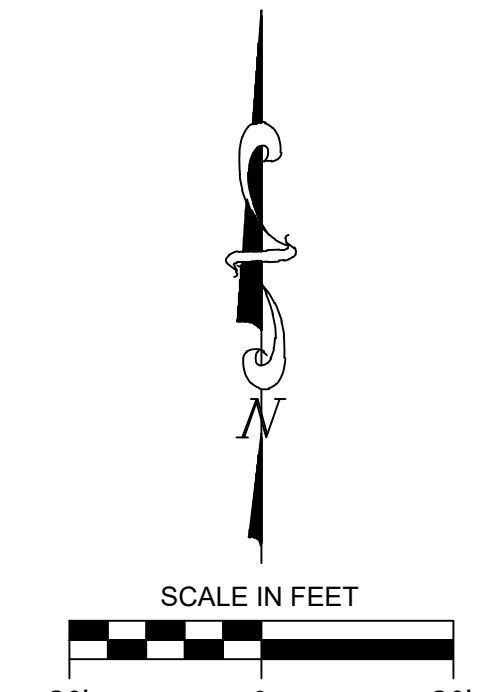
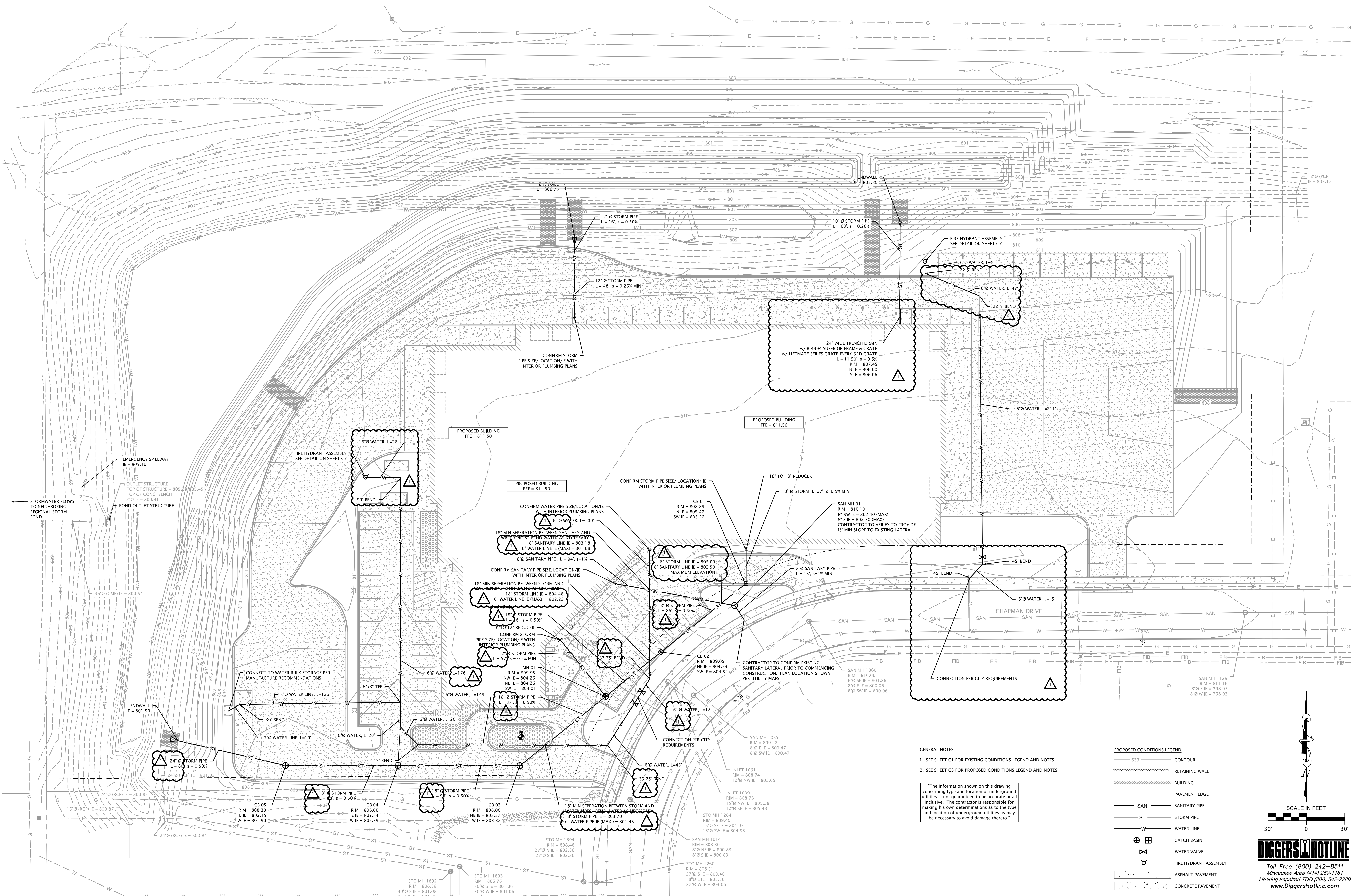
RTM Engineering Consultants
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Address: 316 N Milwaukee Street, Suite 560
Milwaukee, WI 53202

Engineer of Record - Timothy Larsen, PE

REVISIONS

Table with columns: REV #, DESCRIPTION, DATE

KEY PLAN



- PROPOSED CONDITIONS LEGEND
6-3-1 CONTOUR
REINFORCED CONCRETE RETAINING WALL
BUILDING
PAVEMENT EDGE
SAN SANITARY PIPE
ST STORM PIPE
W WATER LINE
CATCH BASIN
WATER VALVE
FIRE HYDRANT ASSEMBLY
ASPHALT PAVEMENT
CONCRETE PAVEMENT

GENERAL NOTES
1. SEE SHEET C1 FOR EXISTING CONDITIONS LEGEND AND NOTES.
2. SEE SHEET C3 FOR PROPOSED CONDITIONS LEGEND AND NOTES.
The information shown on this drawing concerning type and location of underground utilities is not guaranteed to be accurate or all inclusive. The contractor is responsible for making his own determinations as to the type and location of underground utilities as may be necessary to avoid damage thereto.

GENERAL UTILITY NOTES

- 1. ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF EXISTING UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR SHALL CONTACT "DIGGERS HOTLINE" FOR LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION AND SHALL BE RESPONSIBLE FOR PROTECTING UTILITIES FROM ANY DAMAGE DURING CONSTRUCTION. REPAIR OF ANY UTILITY DAMAGE SHALL BE PERFORMED AT CONTRACTOR'S EXPENSE.
2. LENGTHS OF ALL PROPOSED UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY ALL CONNECTIONS TO EXISTING UTILITIES AND ALL ELEVATIONS, LOCATIONS AND SIZES OF EXISTING AND PROPOSED SANITARY, WATER AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS. NOTIFY OWNER PRIOR TO PROJECT COMMENCEMENT. IF A CONFLICT IS FOUND AFTER PROJECT COMMENCEMENT, NOTIFY OWNER IMMEDIATELY.
4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND APPROVALS FOR UTILITY CONNECTIONS, INTO EXISTING SYSTEMS, FROM GOVERNING JURISDICTIONS. SUBMIT APPROVALS TO OWNER PRIOR TO CONSTRUCTION COMMENCEMENT.
5. STORM SEWER SPECIFICATIONS
PIPE - WITHIN ROW, PIPE SHALL BE RCP IN ACCORDANCE WITH CITY STANDARDS. WITHIN SUBJECT SITE, PIPE SHALL EITHER BE RCP OR HIGH DENSITY DUAL-WALL POLYETHYLENE CORRUGATED (HDPE) PIPE. RCP PIPE SHALL MEET THE REQUIREMENTS OF ASTM, CLASS III (MINIMUM) C-76 WITH RUBBER GASKET JOINTS CONFORMING TO ASTM C-443. FOR PIPE WITH COVER LESS THAN 2 FEET, USE CLASS V RCP. HDPE PIPE SHALL BE AS MANUFACTURED BY HANCOR OR EQUAL, WITH WATER TIGHT JOINTS, DESIGN MANNING "N" VALUE OF 0.010, OR EQUAL, AND SHALL MEET THE REQUIREMENTS OF AASHTO DESIGNATION M-294 TYPE S.
CATCH BASINS - CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARDS.
MANHOLES - MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARDS.
BACKFILL AND BEDDING - STORM SEWER SHALL BE CONSTRUCTED WITH GRAVEL BACKFILL AND CLASS B BEDDING IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL AND CLASS B BEDDING. LANDSCAPED AREAS MAY BE CLASS C BEDDING WITH COMPACTED SOIL BACKFILL CONFORMING TO SECTION 6.4.3.5 OF THE "STANDARD SPECIFICATIONS". ALL BACKFILL/BEDDING SHALL BE COMPACTED BY MECHANICAL MEANS.
STORM SEWER SERVICES SHALL TERMINATE WITH REMOVABLE, RUBBER COMPRESSION GASKETED PLUGS.
6. SANITARY SEWER SPECIFICATIONS
CONSTRUCTION - IN ACCORDANCE WITH THE CHAPTER NR110 OF THE WISCONSIN ADMINISTRATIVE CODE, "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN", AND CITY

ORDNANCES.
PIPE - SANITARY SEWER PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE (PVC) MEETING REQUIREMENTS OF ASTM D 3034, SDR-35, WITH INTEGRAL BELL TYPE FLEXIBLE ELASTOMERIC JOINTS, MEETING THE REQUIREMENTS OF ASTM D-3212.
CONNECTIONS - ALL LATERAL CONNECTIONS SHALL BE FABRICATED WYE CONNECTIONS AND ALL RISER CONNECTIONS SHALL BE FABRICATED TEE CONNECTIONS.
SANITARY SERVICES SHALL TERMINATE WITH REMOVABLE, RUBBER COMPRESSION GASKETED PLUGS.
LATERAL TERMINUS - SHALL BE MARKED WITH A 2 BY 4 HARDWOOD TIMBER EXTENDING FROM THE TERMINUS TO 2 FEET ABOVE GROUND, PERPENDICULAR TO GROUND SURFACE. THE TIMBER SHALL BE PAINTED GREEN. EACH LATERAL SHALL BE PROVIDED WITH A WATERPROOF AND LEAK PROOF STOPPER OR CAP SUBJECT TO APPROVAL OF THE CITY ENGINEER.
BEDDING AND COVER MATERIAL - BEDDING AND COVER MATERIAL SHALL BE CRUSHED STONE SCREENINGS CONFORMING TO CHAPTER 6.43.0 OF THE "STANDARD SPECIFICATIONS".
BACKFILL - BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE CHAPTER 6.43.4 OF THE "STANDARD SPECIFICATIONS". GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. EACH LATERAL SHALL BE PROVIDED WITH A WATERPROOF AND LEAK PROOF STOPPER OR CAP SUBJECT TO APPROVAL OF THE CITY ENGINEER.
COMPACTION OF BACKFILL - ALL BACKFILL SHALL BE COMPACTED BY MECHANICAL COMPACTION AS SPECIFIED IN CHAPTER 2.6.14(B) OF THE "STANDARD SPECIFICATIONS". AT THE END OF THE WORKING DAY, OPEN EXCAVATIONS SHALL NOT EXCEED 25 FEET IN LENGTH AND SHALL BE BARRICADED OFF OR STEEL PLATED.
TESTING - THE PIPE SHALL BE TESTED IN ACCORDANCE WITH CHAPTER 3.2.6(1)(A) FOR THE 5% DEFLECTION LIMIT, DEFLECTION TEST, AND FILE NO. 30, PART VII OF THE "STANDARD SPECIFICATIONS". ALL PIPE SHALL BE REQUIRED TO PASS THE LOW-PRESSURE AIR TEST AS SPECIFIED IN CHAPTER 3.7.0, LEAKAGE TEST OF SANITARY SEWERS, AND FILE NO. 31, PART VII "STANDARD SPECIFICATIONS".
7. WATER SEWER SPECIFICATIONS
WATER LINE AND APPURTENANCES CONSTRUCTION - IN ACCORDANCE WITH WATER MAIN & SERVICES LATERAL MATERIALS AND THE INSTALLATION OF WATER MAIN & APPURTENANCES FOR THE WATER MAIN UTILITY DATED APRIL 22, 2024.
PIPE - WATER MAIN SHALL BE DUCTILE IRON PIPE MEETING THE REQUIREMENTS OF ANMA STANDARD C-900, CLASS 250 WITH CAST IRON FITTINGS AND INTERNAL ELASTOMERIC BELL AND SPIGOT JOINTS IN ACCORDANCE WITH CITY SEWER AND WATER SPECIFICATIONS ADDENDUM, DATED JANUARY 2020.
TRACER WIRE - TRACER WIRE SHALL REST DIRECTLY ON THE EAST OR NORTH SIDE OF PIPE AND BE SECURED WITH TAPE APPROXIMATELY EVERY 10 FEET.

- HYDRANTS, VALVES AND VALVE BOXES, FIXINGS, MARKERS, BEDDING, COVER, AND BACKFILL - IN ACCORDANCE WITH CITY SPECIFICATIONS
DEFLECTIONS - GREATER THAN 1% MUST BE MADE WITH A MECHANICAL FITTING.
CONNECTION TO EXISTING MAIN - IN ACCORDANCE OF CITY SPECIFICATIONS.
INSULATION - INSTALL 4" THICK POLYSTYRENE INSULATION OVER ENTIRE LENGTH OF WATER SERVICE. IN ACCORDANCE WITH FILE 48 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN.
PIPE SHALL HAVE A MINIMUM COVER OF 6" OVER PIPE.
TESTING - ALL PIPE, FITTINGS, VALVES AND HYDRANTS SHALL BE TEXTED PER IN ACCORDANCE WITH CITY SEWER AND WATER SPECIFICATIONS ADDENDUM, DATED JANUARY 2020.
ALL BURIED METAL COMPONENTS SHALL BE DOMESTICALLY PRODUCED, DOUBLE-WRAPPED WITH POLYETHYLENE WRAP MEETING REQUIREMENTS OF CITY SPECIFICATION. INSTALLATION OF THE WRAP SHALL CONFORM TO CITY STANDARDS.
8. CONTRACTOR TO MAINTAIN MIN. PIPE SEPARATION PER STATE CODE. STORM SHALL BE A MINIMUM OF 6" VERTICALLY FROM SANITARY; STORM/SANITARY SHALL BE A MINIMUM OF 18" VERTICALLY FROM WATER LINE.
9. CONTRACTOR TO NOTIFY CITY ENGINEERING DEPARTMENT 5-DAYS PRIOR TO WORK WITHIN THE CITY RIGHT-OF-WAY.
10. LIMITS OF FINAL STREET PAVEMENT AND CURB & GUTTER REMOVAL AND REPLACEMENTS TO BE MARKED BY CITY ENGINEERING STAFF IN THE FIELD.
11. PROVIDE A PRE AND POST CONSTRUCTION SEWER LATERAL VIDEO TO CITY FOR REVIEW AND APPROVAL. CONTACT THE CITY ENGINEERING DEPARTMENT FOR THE VIDEO FORMAT. IF LATERAL MAINTENANCE IS NEEDED, THEN THE LATERAL IMPROVEMENTS MAY NEED TO BE INCLUDED AS PART OF THIS PROJECT. THE LATERAL PIPE AND CONNECTION TO THE MAIN MAY NEED TO BE LINED OR RELAYED TO REDUCE INFILTRATION INTO THE CITY'S SANITARY SEWER SYSTEM OR IMPROVE THE STRUCTURAL INTEGRITY.



C-5

SHEET TITLE: Utility Plan

PROJECT

PROJECT:
Waukesha Water Utility

0 Chapman Drive
 Construction Plans

OWNER:
 City of Waukesha

PROJECT ISSUE DATE:
 February 25, 2005



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REVISIONS

REV #	DESCRIPTION	DATE

KEY PLAN

SHEET

SHEET TITLE:
Constuction Details

C-6

- EROSION CONTROL NOTES**
- INSTALLATION** - The contractor shall install EC measures per plan prior to land disturbing activities. The EC plan indicates minimum measures, the contractor shall furnish and install additional measures as required to secure the site and as directed by the City or any other authorized agent. The contractor is responsible for repairing any damages due to sedimentation, dust, or any other materials originating from the site.
 - INSPECTION** - The contractor shall inspect EC measures at least once per week and within 24 hours after each 0.5 inch rainfall. Log inspections on-site or online and make them available to the City and other authorized agents upon request. Use DNR Form 3400-187 or equivalent.
 - Maintain EC measures in accordance with the notes below and DNR Technical Standards: https://dnr.wisconsin.gov/Topics/Stormwater/Standards/const_standards.html
 - INLET PROTECTIONS** - Type D shall be used in curbs and roadways unless the structure is not deep enough. Curb head boards shall not be installed in areas where and when City snow plow trucks might be in operation - See Figure 1 and DNR Tech Standard #1060
 - SILT FENCE** - shall be trenched and compacted at the base to prevent undercutting. Joints shall be made by twist or hook method to prevent bypassing - See Figure 2 and DNR Tech Standard #1056
 - SILT SOCK** - shall be in continuous contact with the ground to prevent undercutting. Joints shall be overlapped 3" and shingled in the direction of flow - See Figure 3 and DNR Tech Standard #1056
 - TRACKING PAD** - stone size shall be approximately 25 to 50% by weight passing the 1.5" sieve. The tracking pad shall be at least 12 inches thick, 12 feet wide, and 50 feet long with traffic restricted to pass over the length of the pad - See DNR Tech Standard #1057
 - SWEEPING** - and/or scraping shall occur as needed to maintain public safety and prevent sediment from reaching the storm water drainage system and at the end of each work day. See DNR Tech Standard # 1057
 - STOCKPILES** - shall be surrounded with silt fence or silt sock if remaining for 24 hours or longer and downstream inlets must be protected.
 - STABILIZATION** - Areas remaining inactive for 14 days or longer shall be temporarily stabilized. Areas shall be permanently stabilized within 7 days of reaching final grade.
 - REMOVAL** - The contractor shall remove EC measures when land disturbing activities have ceased and the site is stabilized. Final Stabilization is achieved when uniform perennial vegetative cover is established at a density of 70% or greater for all areas not covered by permanent structures.
 - Permitting of GROUNDWATER DEWATERING is the responsibility of the contractor. Groundwater dewatering is subject to a DNR Discharge Permit and a WDNR High Capacity Well Approval if cumulative pump capacity is 70 GPM or more.
 - For more erosion control requirements, refer to City of Waukesha Standard Construction Specifications Division 5, Section 02.
 - PLAN REVISIONS** or amendments shall be submitted to the City and WDNR at least 5 days prior to field implementation.

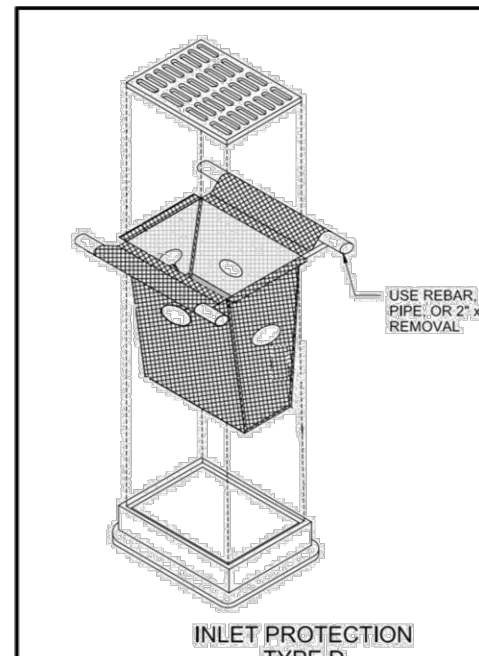
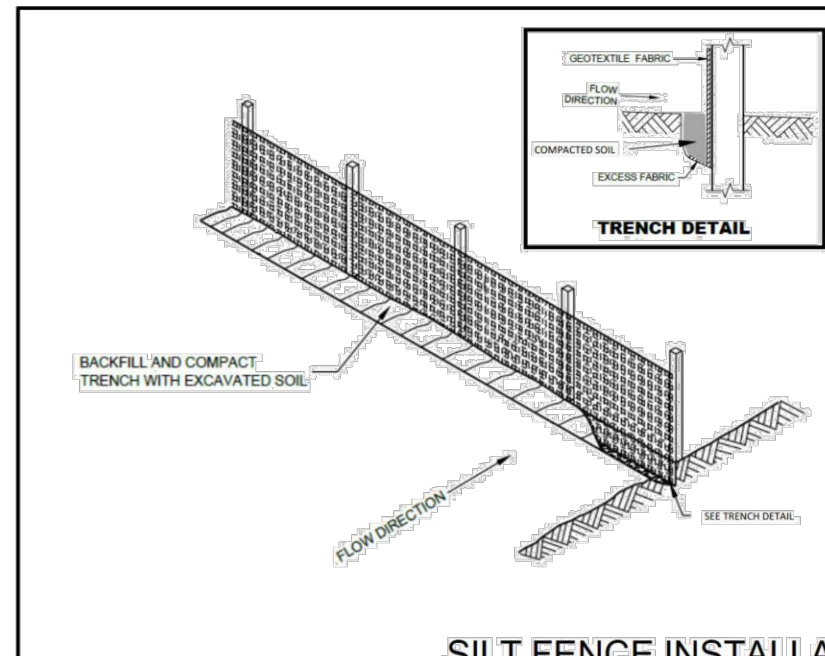
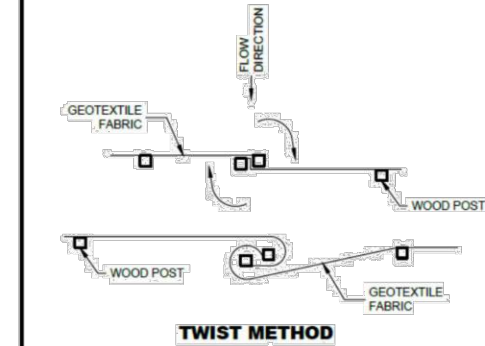


Figure 1 - Excerpt from DNR Tech Standard #1060



SILT FENCE INSTALLATION



Twist Method Joining Two Lengths of Silt Fence

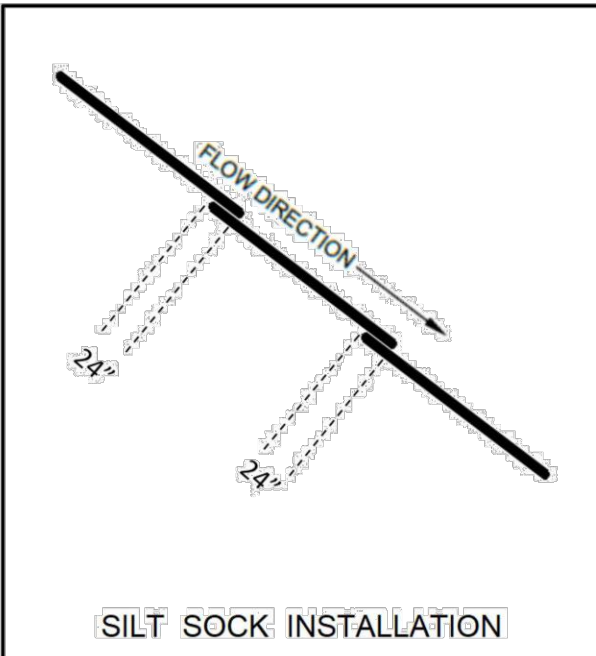
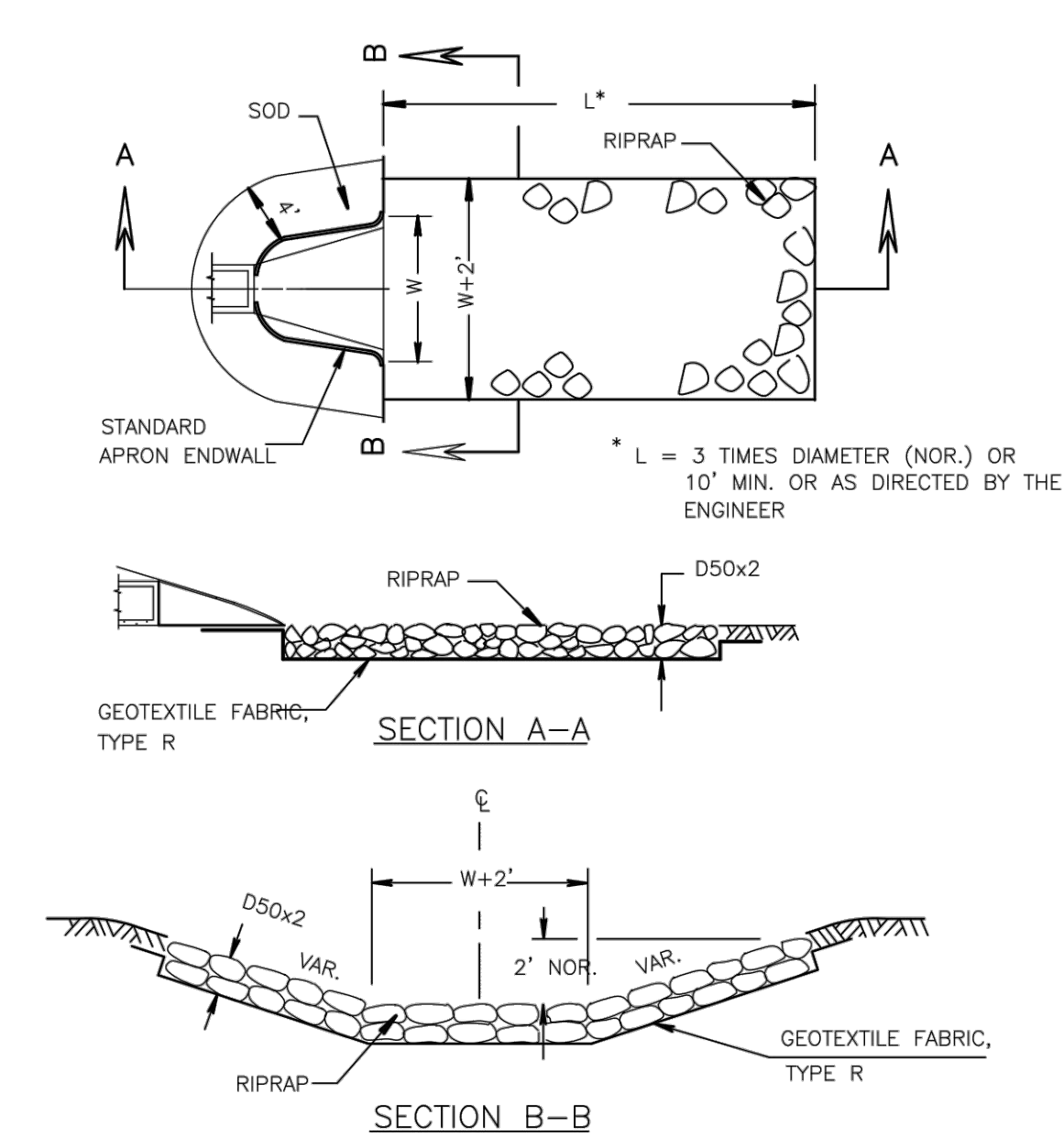
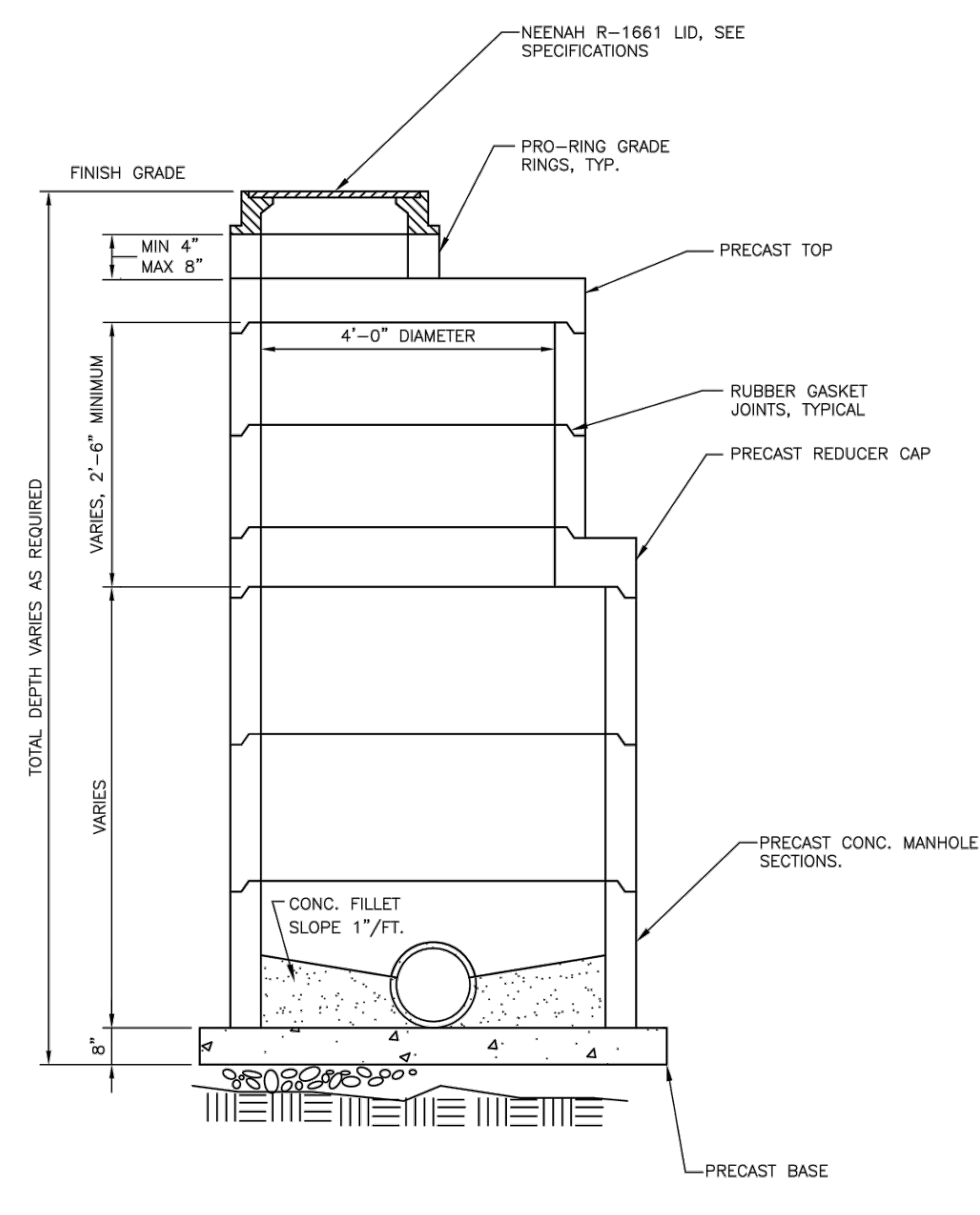


Figure 3 - Shingled overlaps of Silt Sock relative to flow direction

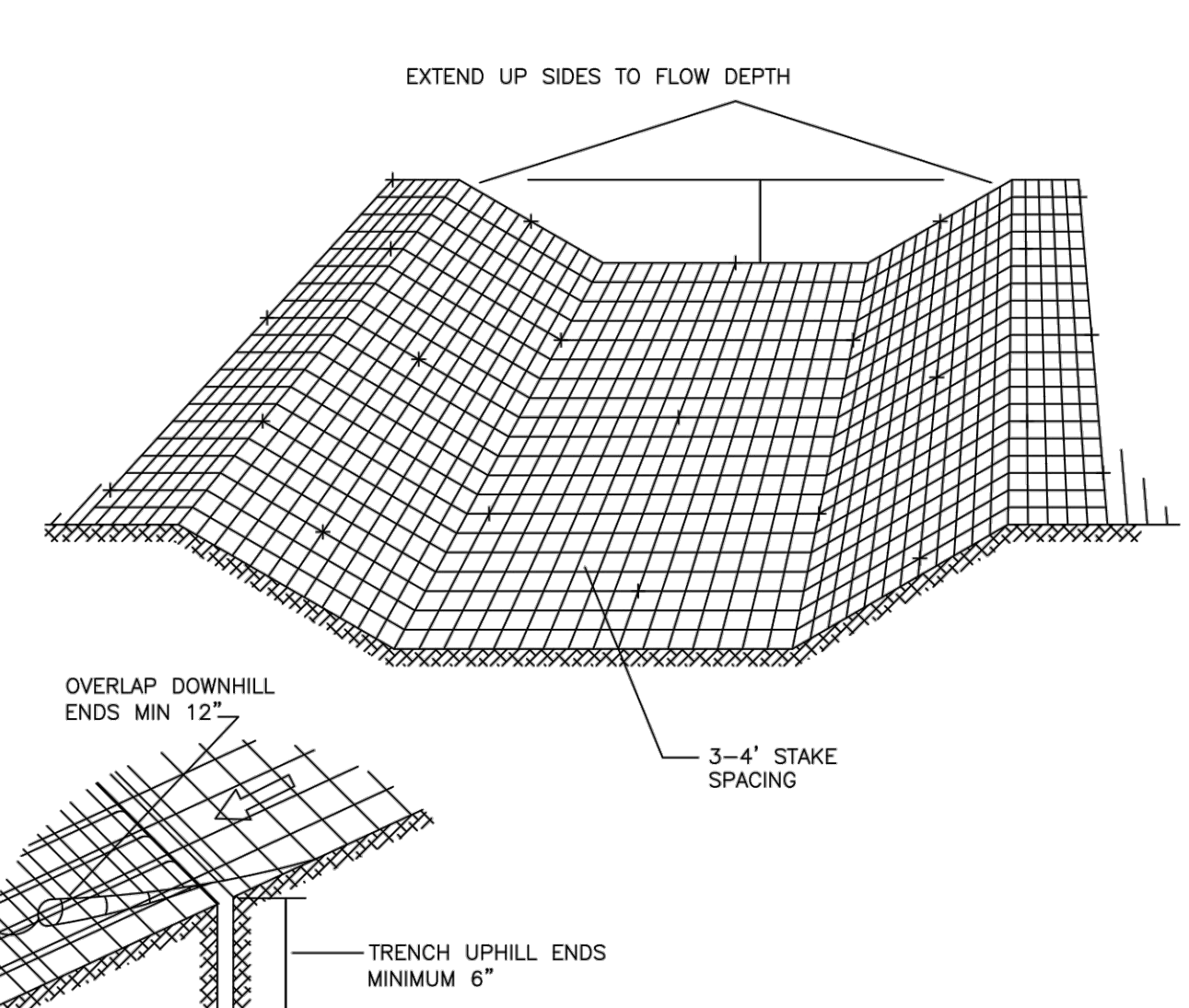
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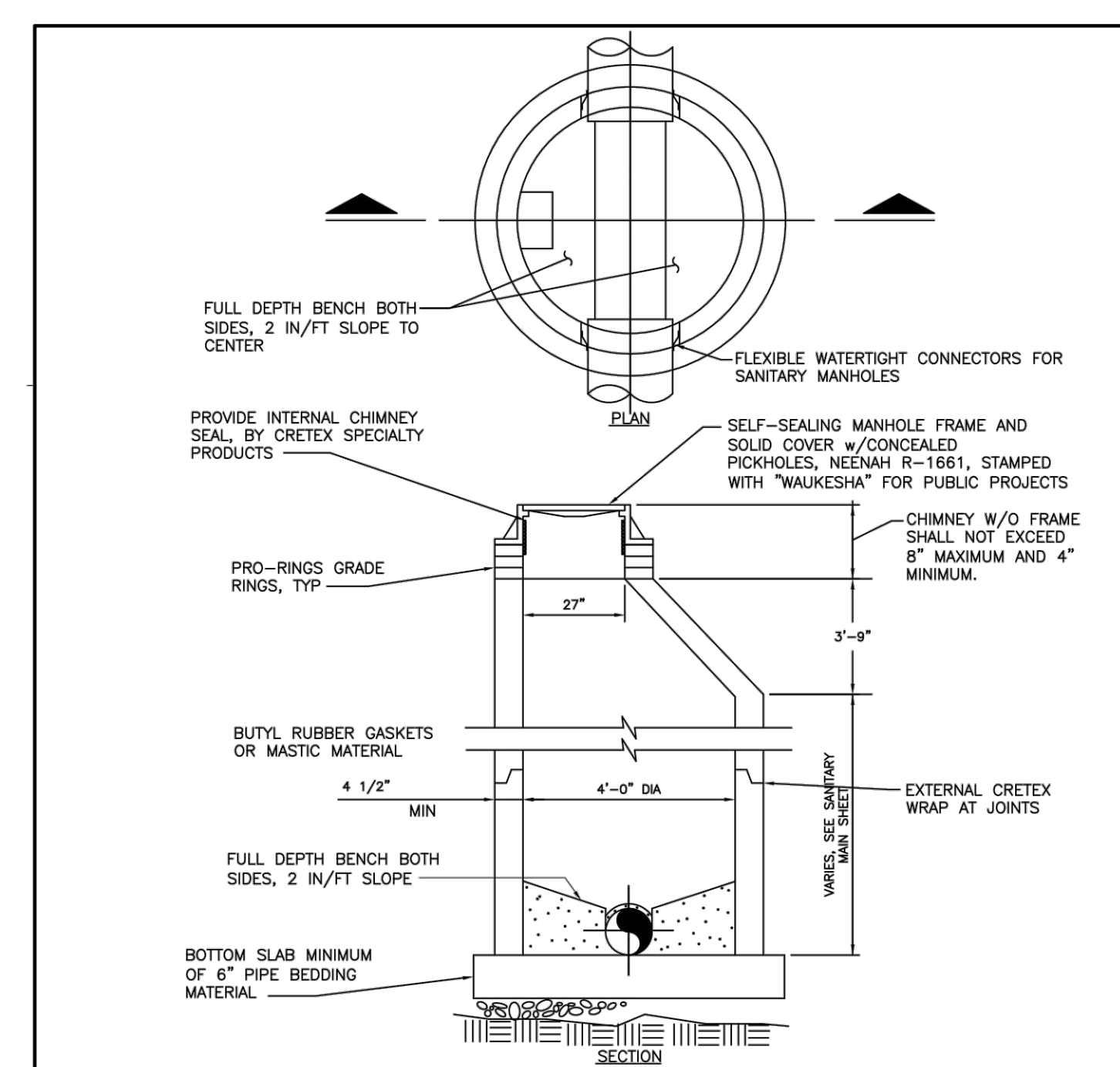
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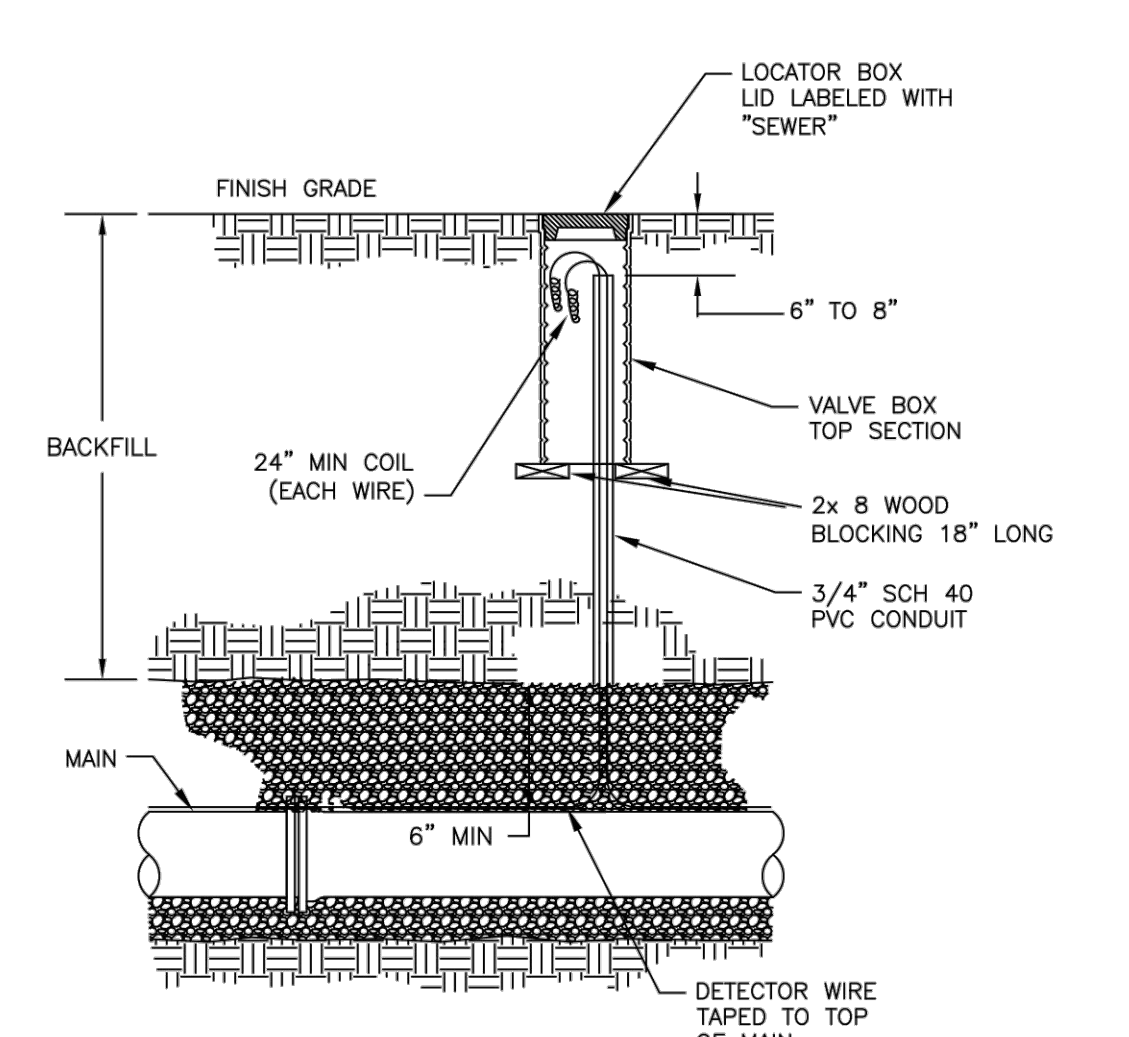
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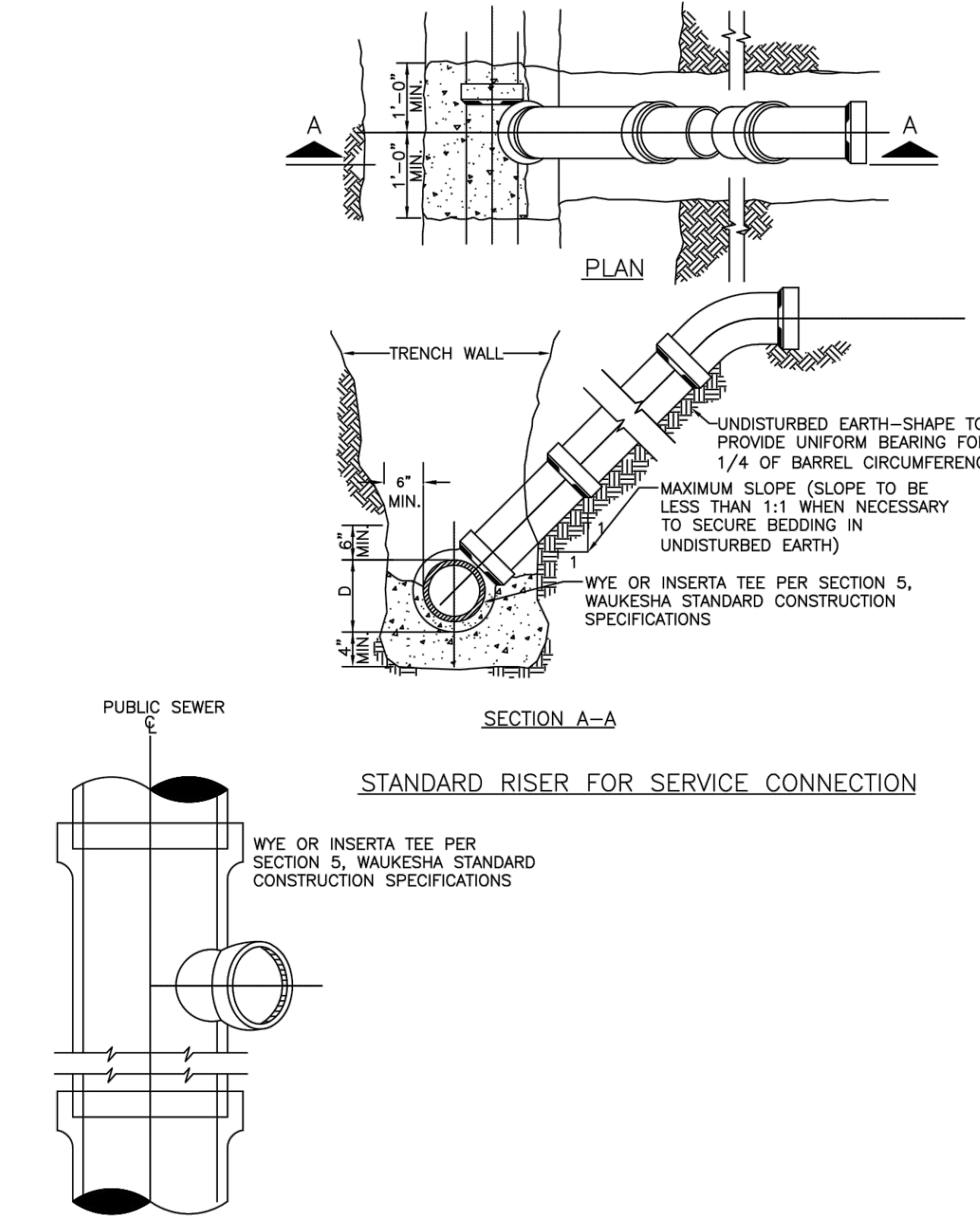
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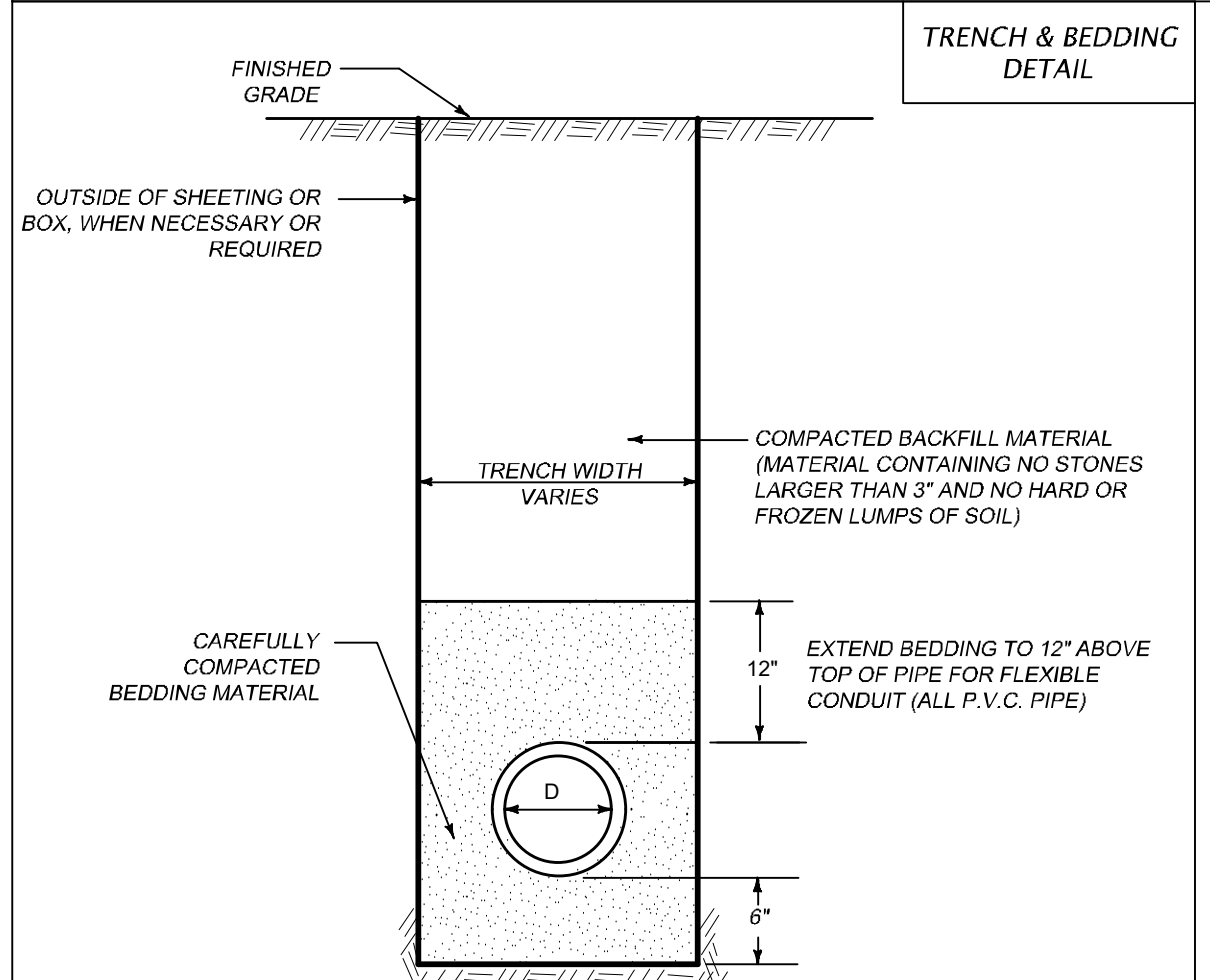
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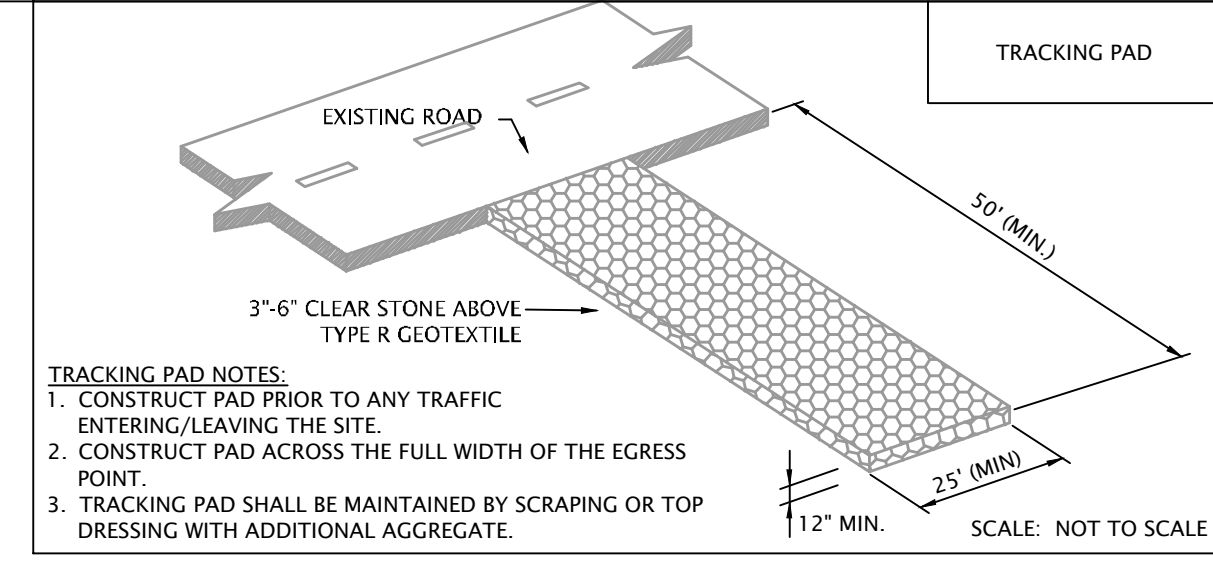
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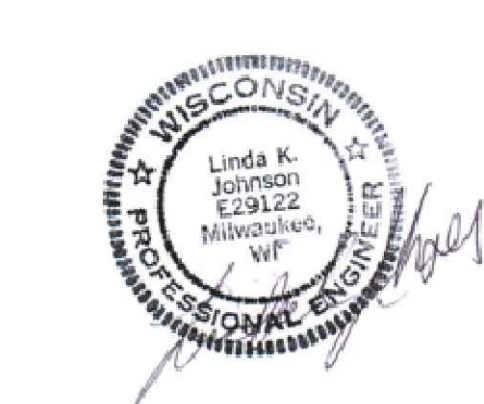
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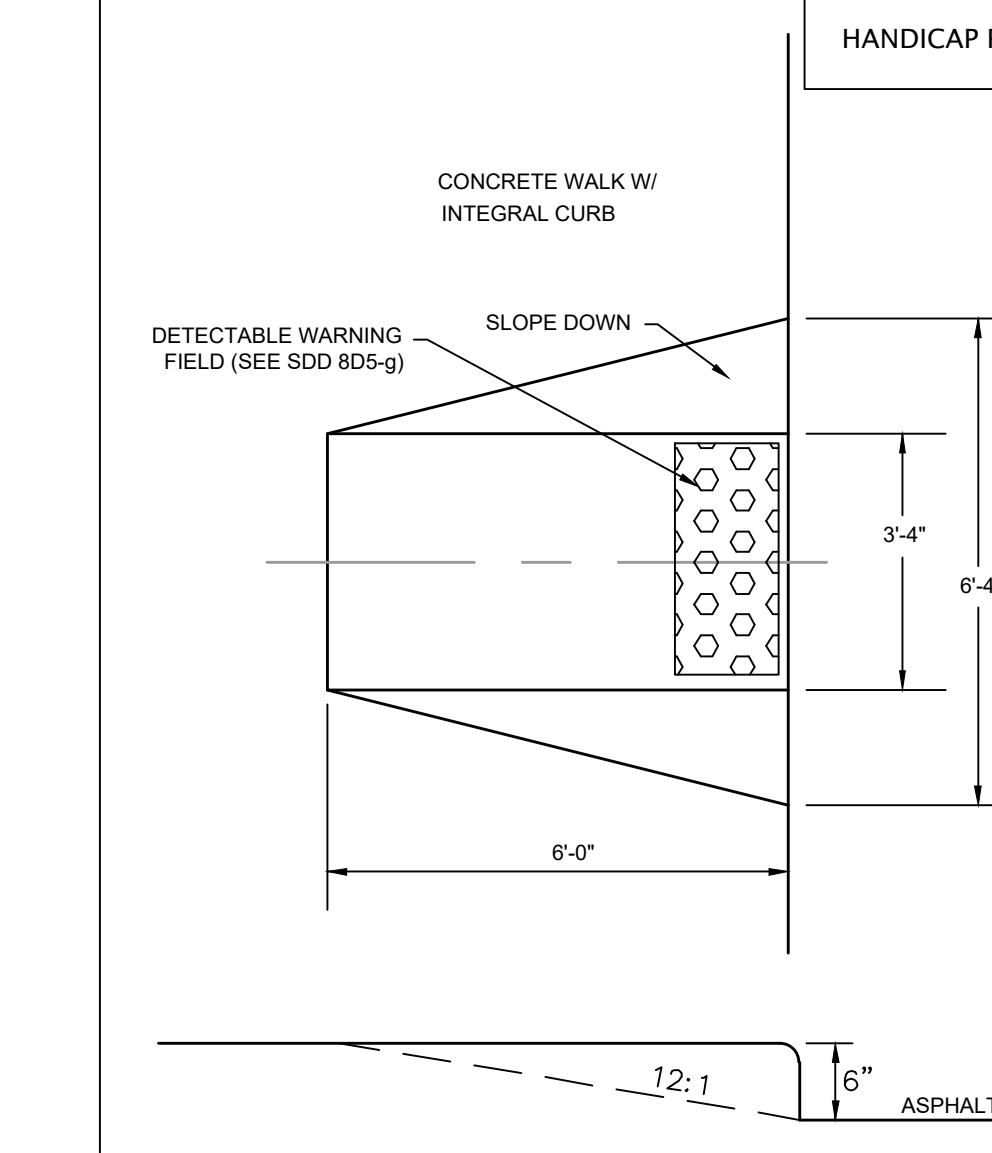
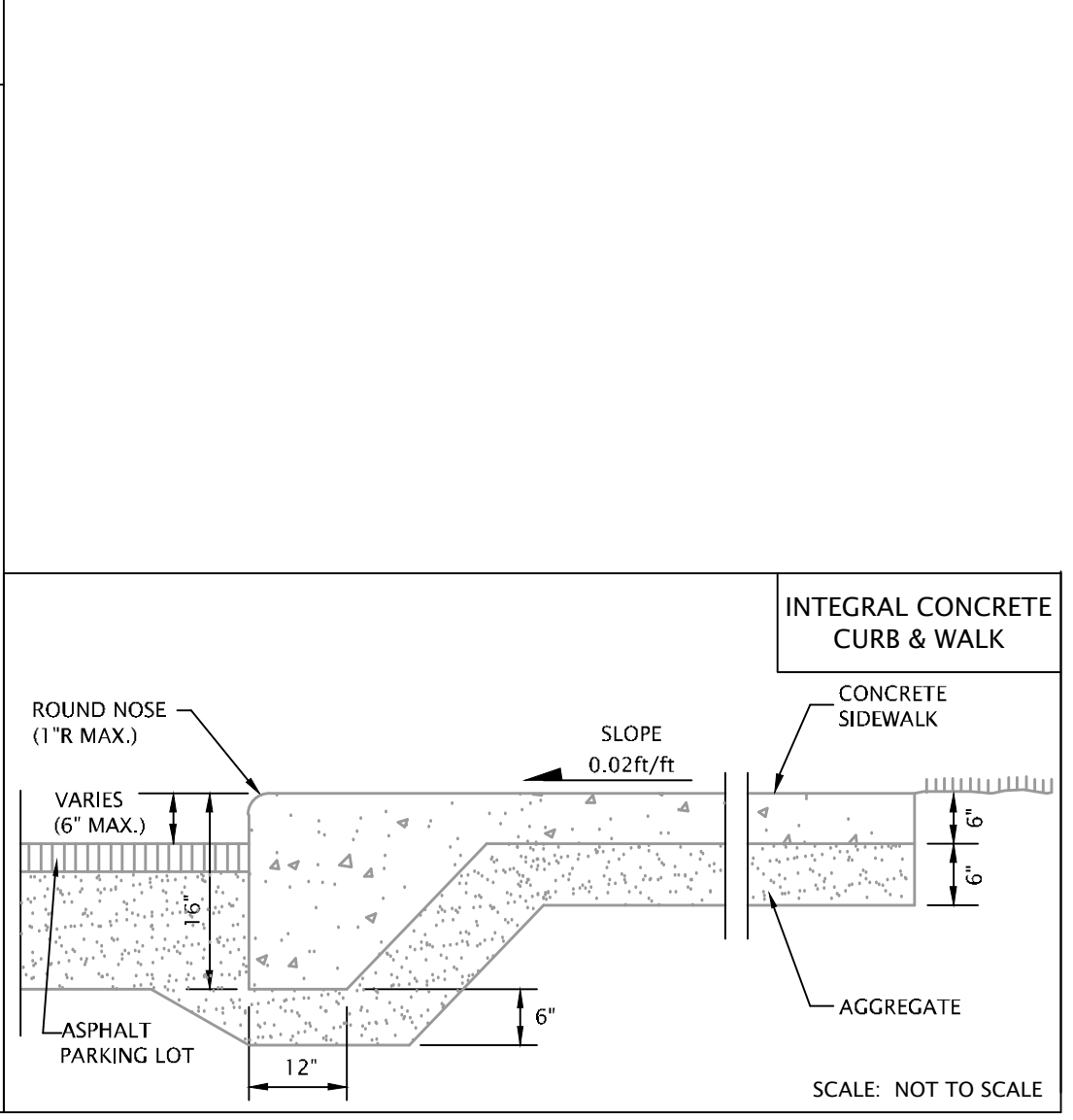
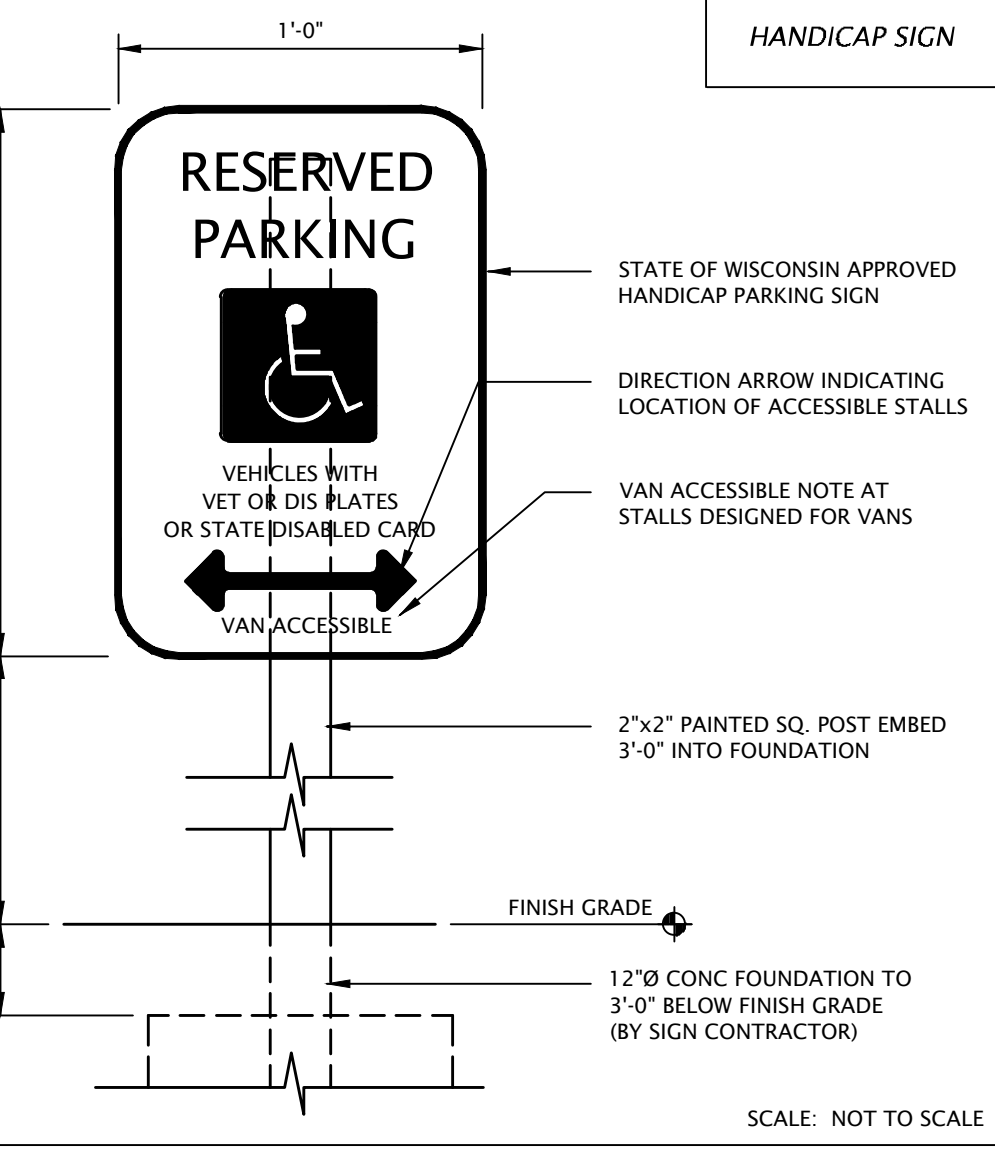
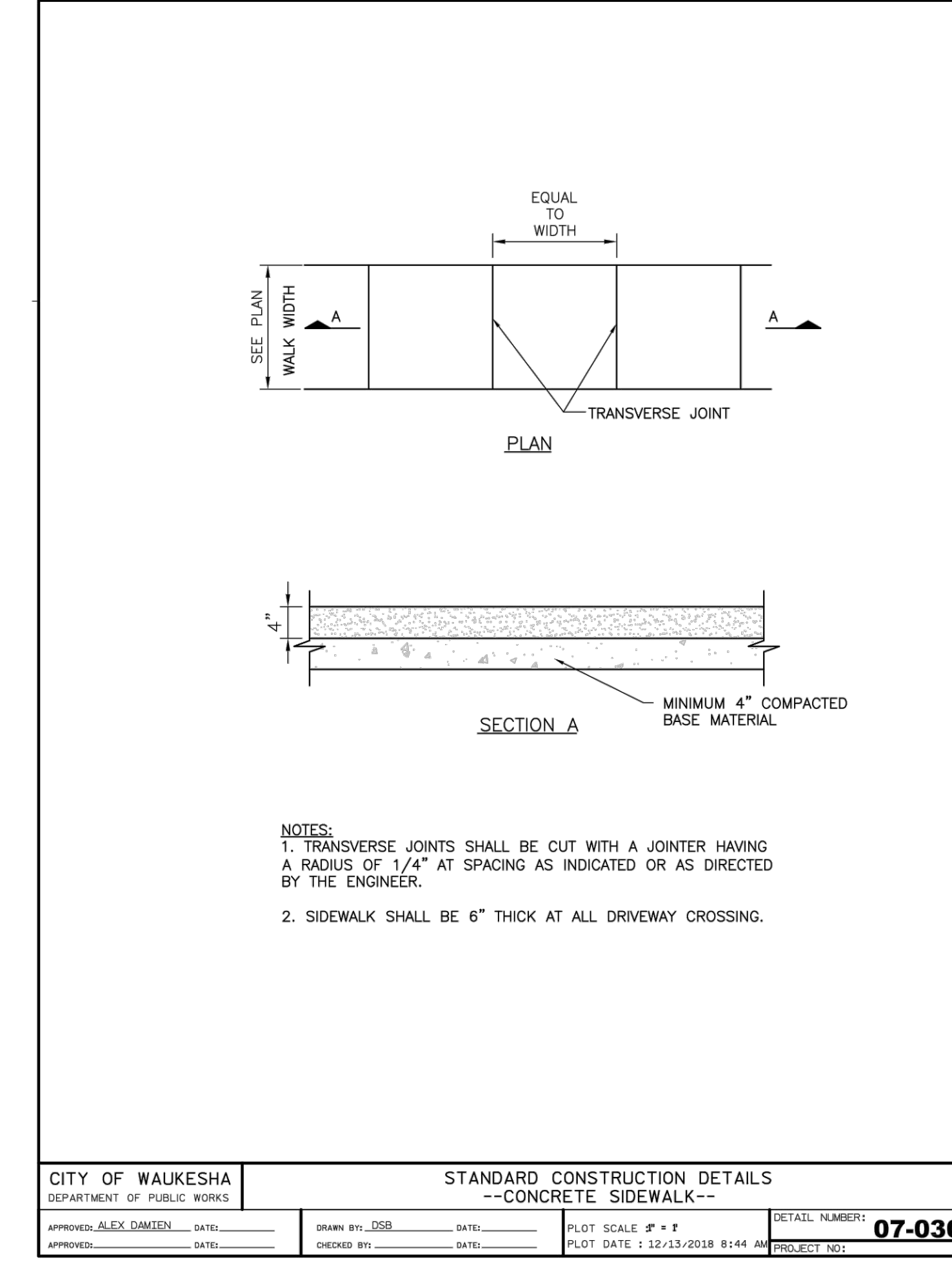
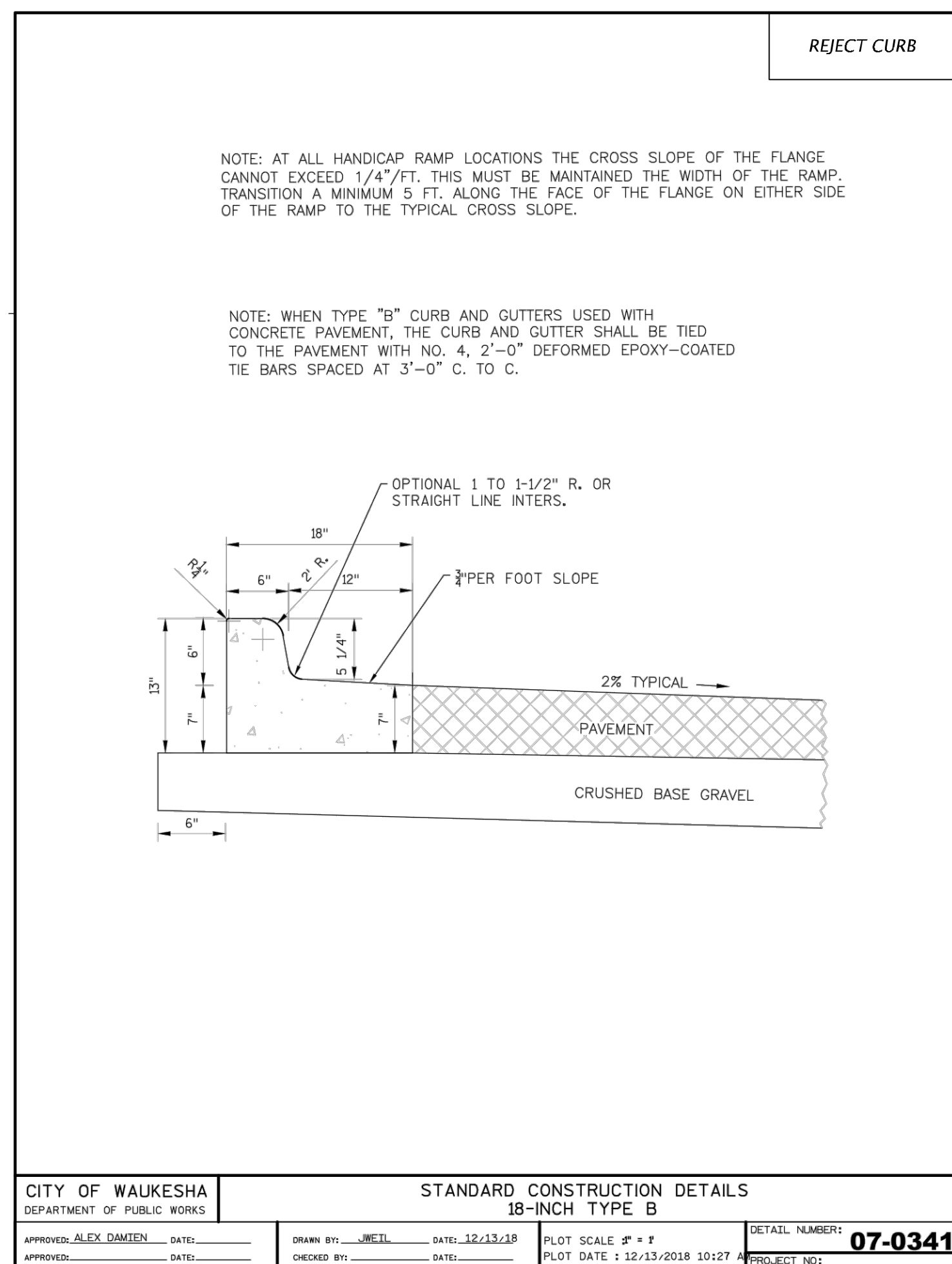
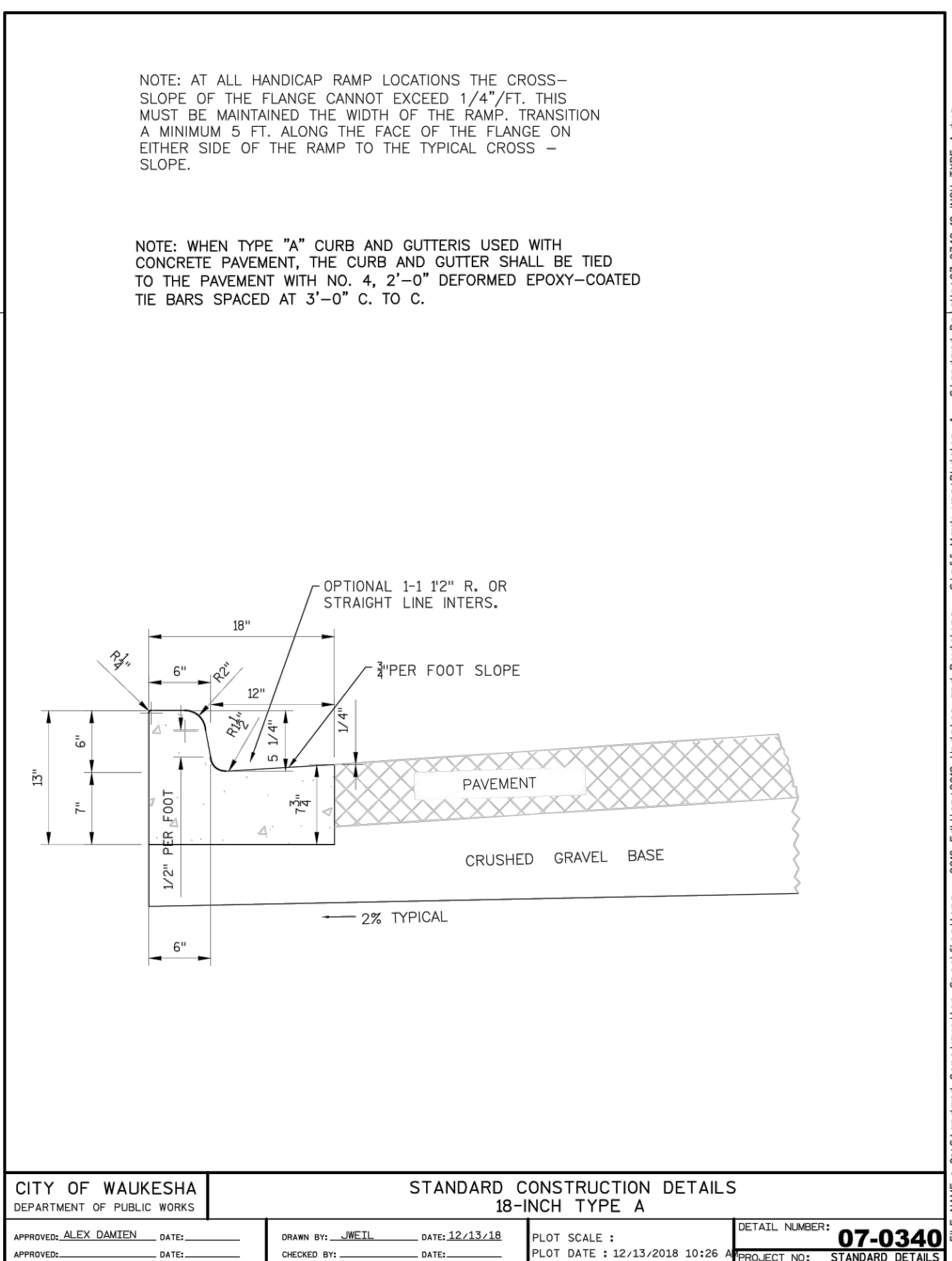
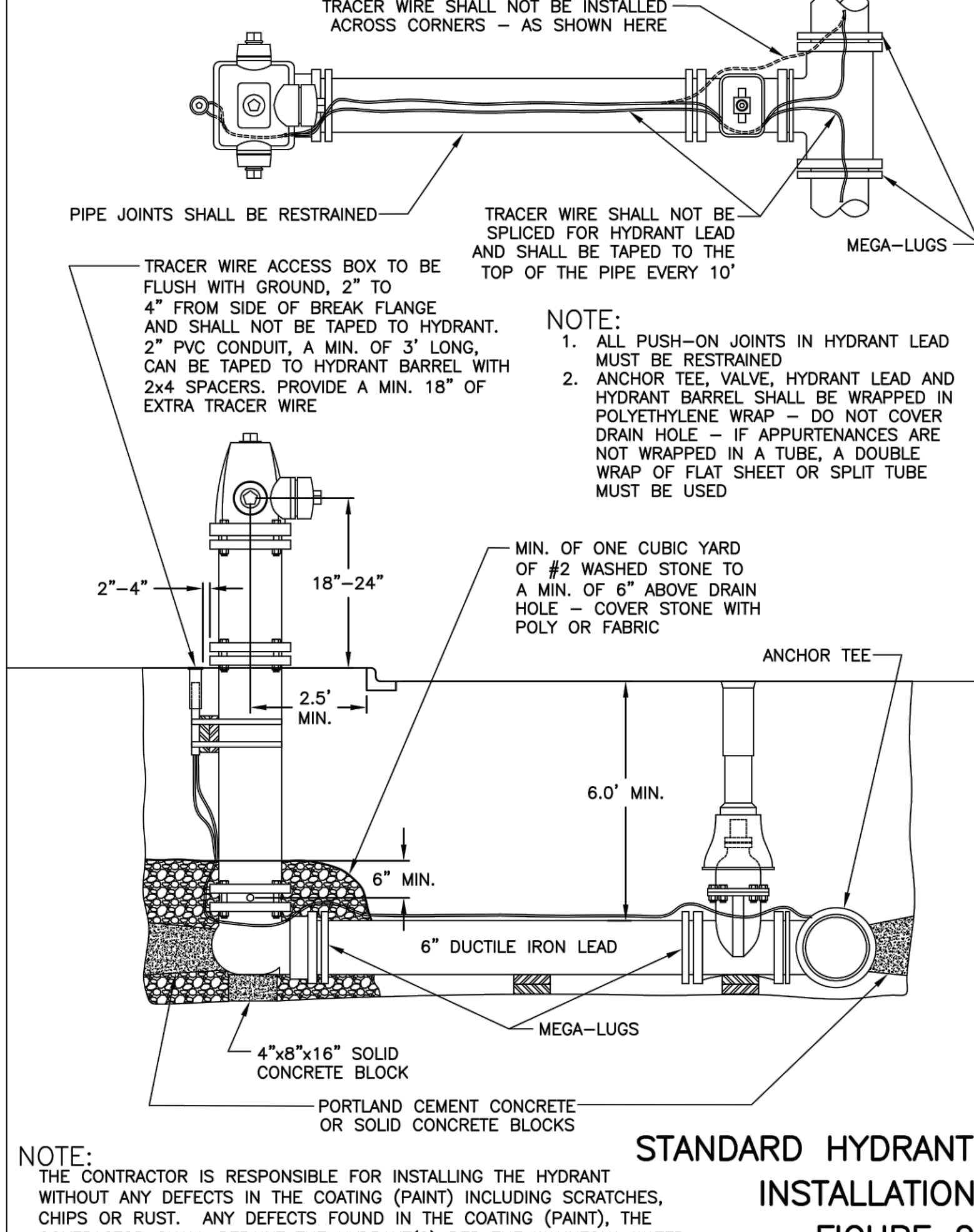
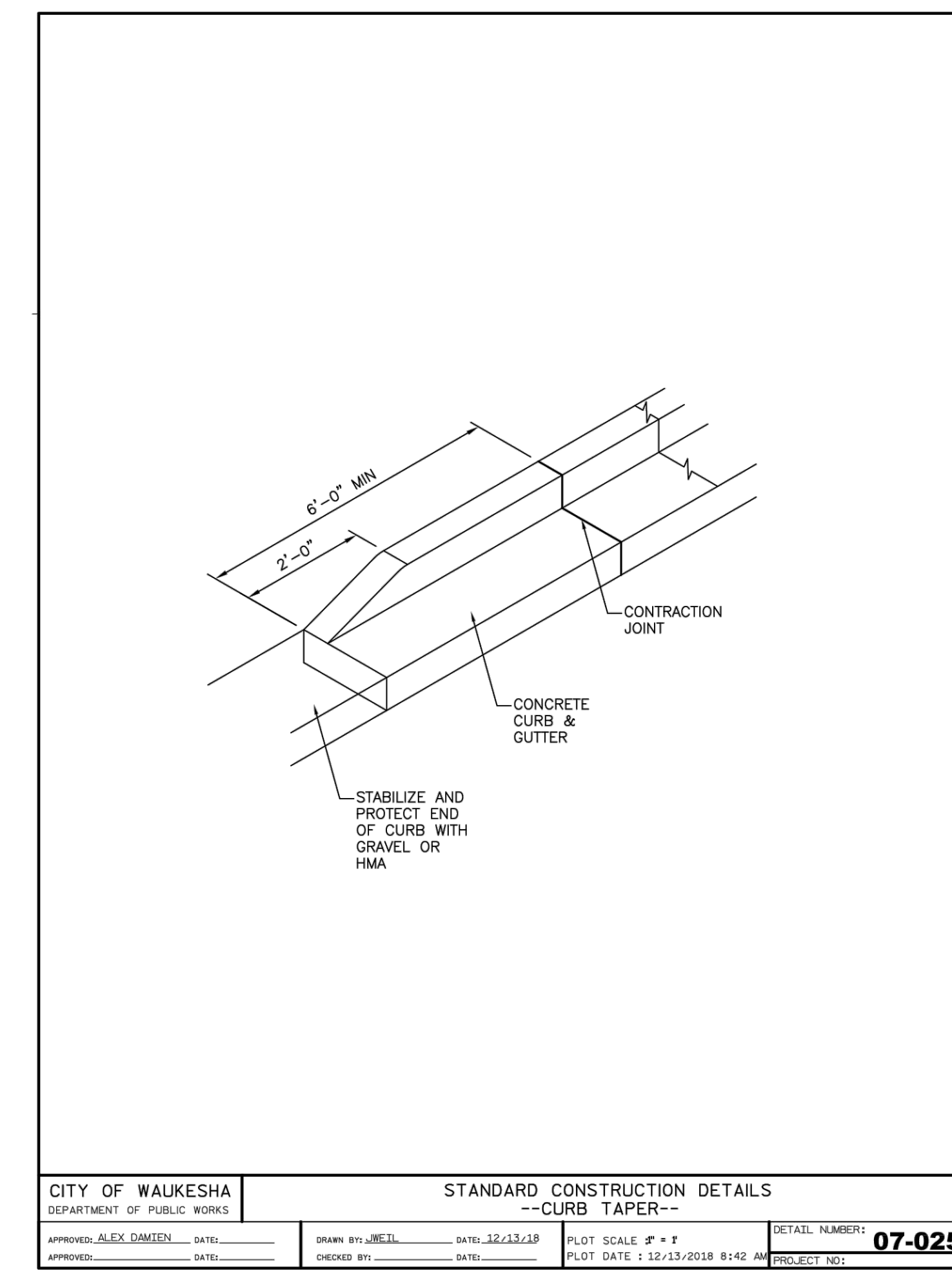
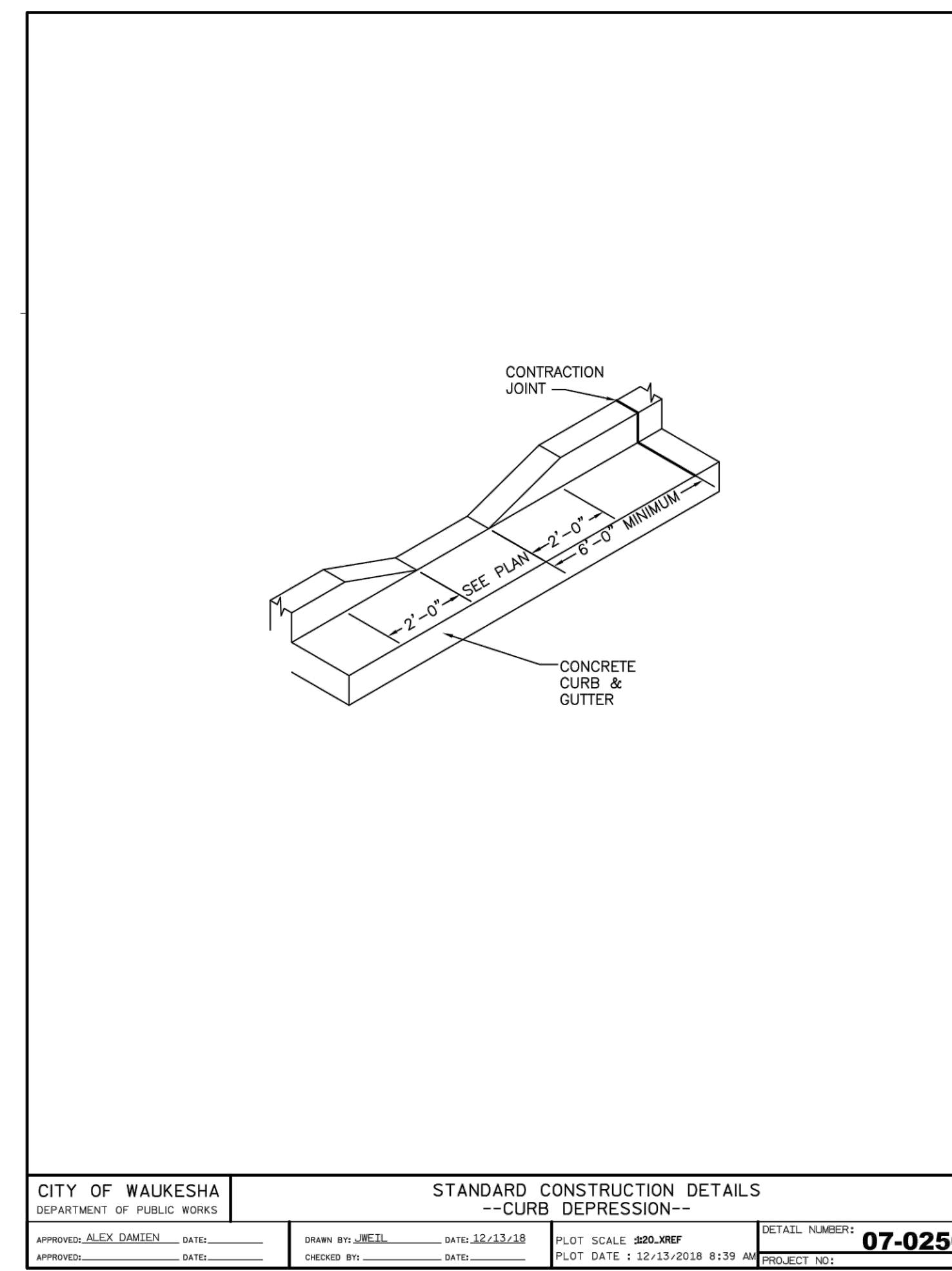
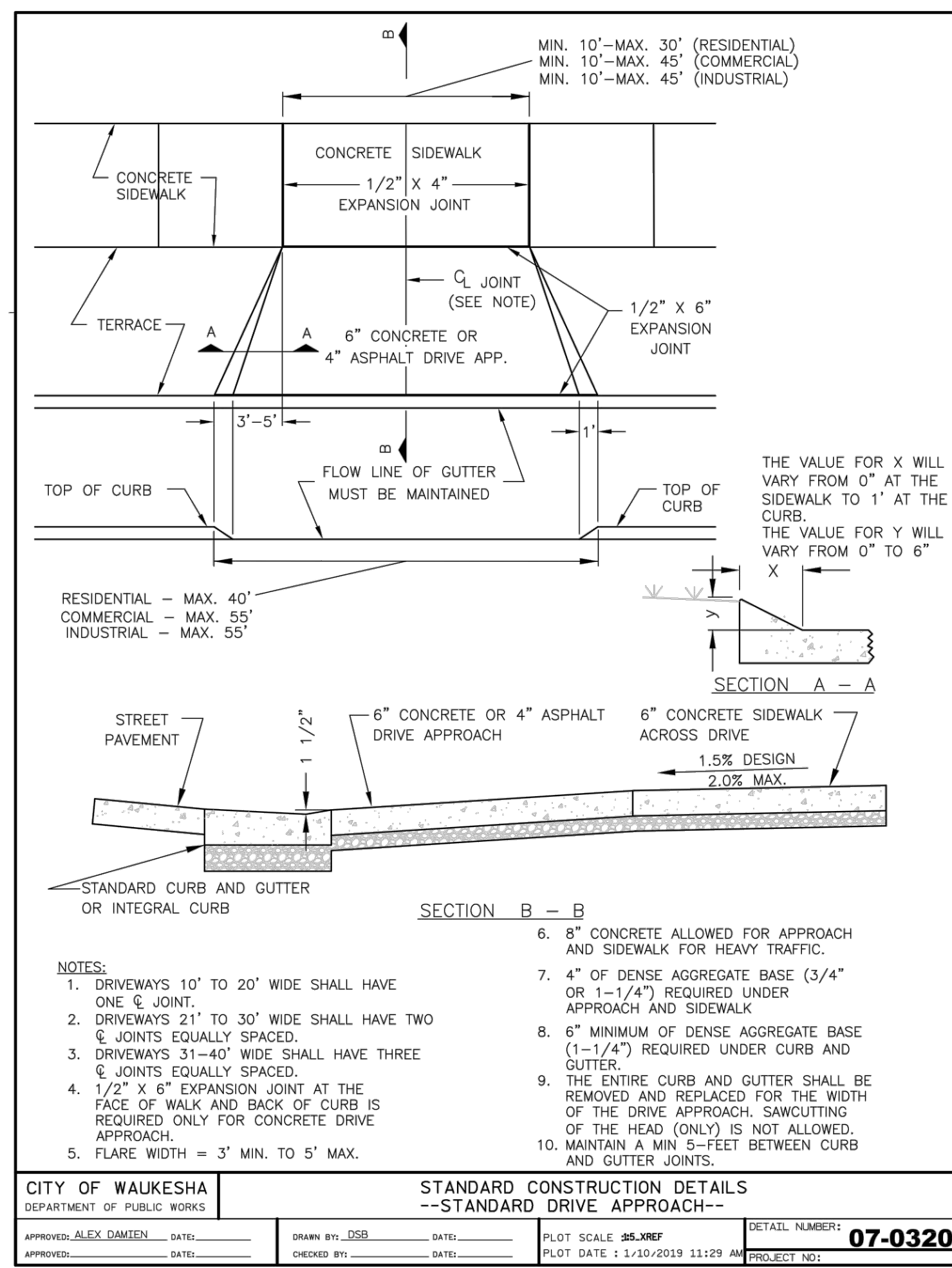


NOTES:
 1. SEE ARTICLE 3.2.6 OF THE STANDARD SPECIFICATIONS FOR PIPE SEWER, BEDDING SECTIONS AND CHAPTER 6.43.0 FOR BEDDING, COVER, FOUNDATION, AND BACKFILL MATERIALS.
 2. (MAX.) TRENCH WIDTHS - 9" x O.D. +/- 9", WHEN TRENCH IS LESS THAN 5 FT. DEEP - 18" x O.D. +/- 18", WHEN TRENCH IS GREATER THAN 5 FT. DEEP



TRACKING PAD NOTES:
 1. CONSTRUCT PAD PRIOR TO ANY TRAFFIC ENTERING/LEAVING THE SITE.
 2. CONSTRUCT PAD ACROSS THE FULL WIDTH OF THE EGRESS POINT.
 3. TRACKING PAD SHALL BE MAINTAINED BY SCRAPING OR TOP DRESSING WITH ADDITIONAL AGGREGATE.





PROJECT

PROJECT:
Waukesha Water Utility

0 Chapman Drive
Construction Plans

OWNER:
City of Waukesha

PROJECT ISSUE DATE:
February 25, 2005



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REV #	DESCRIPTION	DATE

KEY PLAN

SHEET

SHEET TITLE:
Construction Details

