

# GRADING AND EROSION CONTROL PLANS FOR WALDEN SANITATION DISTRICT WASTEWATER TREATMENT PLANT PROJECT EL PASO COUNTY, COLORADO APRIL 2026

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**OWNER'S STATEMENT:**

I, THE OWNER/DEVELOPER, HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

DocuSigned by:



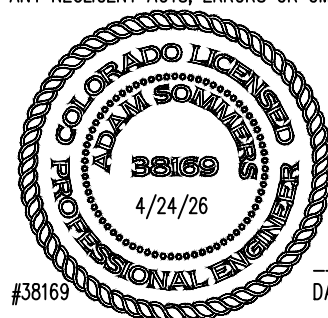
MR BILL DUNSTON  
WALDEN CORPORATION, MONUMENT, CO 80132

6/19/2026

DATE

**DESIGN ENGINEER'S STATEMENT:**

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.



ADAM SOMMERS, P.E. #38169

DATE

**EL PASO COUNTY:**

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/ OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL, AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JOSHUA J. PALMER, P.E.

COUNTY ENGINEER/ECM ADMINISTRATOR

DATE

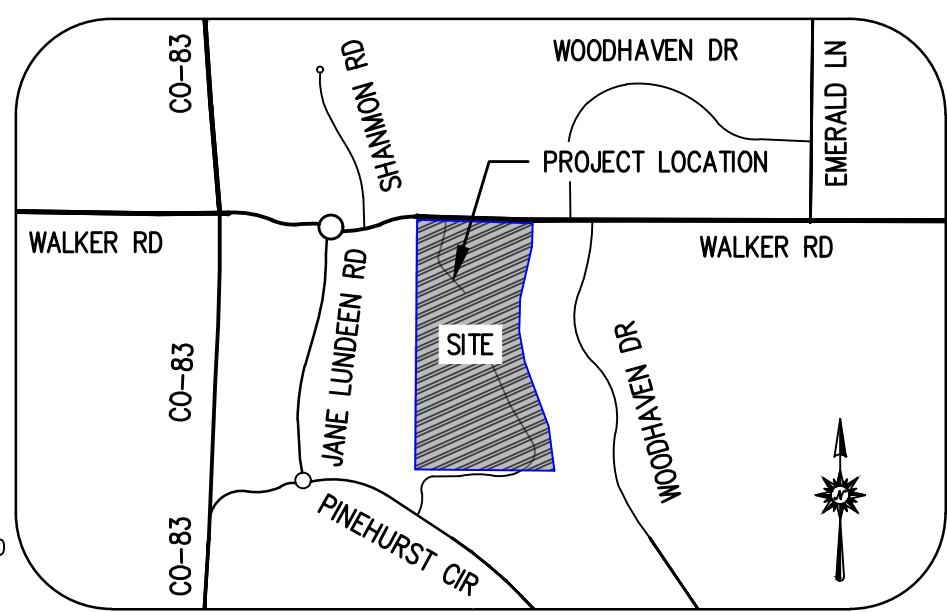
**OWNER/DEVELOPER:**

WALDEN CORPORATION | MR BILL DUNSTON  
MONUMENT, CO 80132 | P.O. BOX  
(719) 243-1111  
EMAIL: BILLDUNSTON@GMAIL.COM

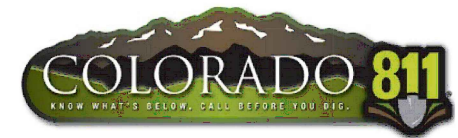
**LEGEND:**

	PROPERTY LINE
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING SEWER LINE
	EXISTING FENCE
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED WATER LINE
	PROPOSED SEWER LINE
	PROPOSED STORM DRAIN LINE
	PROPOSED ELECTRICAL LINE
	DRIVEWAY CENTERLINE
	DRAINAGE FLOW LINE
	LIMITS OF DISTURBANCE
	FLOODPLAIN BOUNDARY
	LIMITS OF CONSTRUCTION
	SILT FENCE

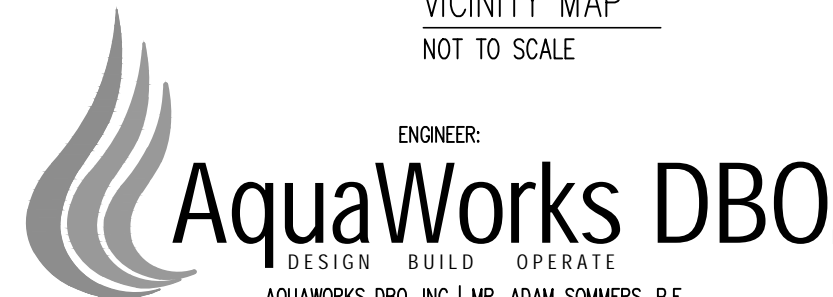
	COMPACT NATURAL SUBGRADE
	PROPOSED CONCRETE
	PROPOSED GRAVEL
	GRADE FILL - PROFILES
	GRADE CUT - PROFILES
	GRADE FILL - ECP PLAN
	GRADE CUT - ECP PLAN
	DEMO GRAVEL
	DEMO CONCRETE
	PROPOSED RESEEDING
	RESTORED AREA
	EXISTING TREE
	DEMO TREE



VICINITY MAP  
NOT TO SCALE



**BENCHMARK:**  
SURVEY CONTROL POINTS AS SHOWN HEREON. ALL ELEVATIONS ARE BASED UPON NGS POINT DESIGNATION "4 BB RESET", LOCATED AT THE NORTHWEST CORNER OF HODGEN ROAD AND STATE HIGHWAY NO. 83. ELEVATION = 7570.8' (NAVD 88) VERTICAL DATUM.  
ALL HORIZONTAL CONTROL IS AN ARBITRARY COORDINATE SYSTEM THAT IS TIED TO ALL OF THE PREVIOUS SUBDIVISION WORK TO THE SOUTH KNOWN AS "WALDEN PRESERVE".



DESIGN BUILD OPERATE

AQUAWORKS DBO, INC | MR. ADAM SOMMERS, P.E.  
3252 WILLIAMS STREET | DENVER, CO 80205  
(303) 477-5915

ENGINEER:

**AquaWorks DBO** INC

**RAMPART SURVEYS, LLC**

RAMPART SURVEYS LLC,  
WOODLAND PARK, CO. 80866 | BOX 5101 | (719) 687-0920

PCD PROJ. NO. : PPR2538

SURVEYOR:

GENERAL CONSTRUCTION NOTES:

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
  - THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
  - ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
  - ALL BACKFILL, SUB-BASE, AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED PER THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY PCD.
  - ALL STATIONING IS CENTERLINE OF IMPROVEMENTS UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE INDICATED AS TOP BACK OF CURB (TBC), ASPHALT (ASP), OR TOP OF INLET OR BOX (TOB).
  - ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO EPC ECM APPENDIX K 1.2C.
  - ALL INTERSECTION ACCESSES TO BE CONSTRUCTED WITH A 25 FOOT SIGHT VISIBILITY TRIANGLES IS REQUIRED AND THERE SHALL BE NO OBSTRUCTIONS GREATER THAN 18" VERTICAL IN THIS AREA.
  - ALL CULVERTS AND STORM DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE (HDPE), REINFORCED CONCRETE PIPE (RCP). ALL CULVERTS SHALL BE PLACED COMPLETE WITH FLARED END SECTIONS. ADEQUACY OF MATERIAL THICKNESS FOR ANY CSP INSTALLED SHALL BE VERIFIED BY OWNER'S GEOTECHNICAL ENGINEER TO SUPPORT MINIMUM 50 YEAR DESIGN LIFE. CULVERTS MUST CONFORM TO EPC ECM SECTION 3.32 - CULVERTS.
  - ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT THE TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES ENGINEERING DIVISION PRIOR TO CONSTRUCTION.
  - THE CONTECH ALUMINUM BOX CULVERT SHALL BE DESIGNED TO MEET THE LOADING CRITERIA SPECIFIED WITHIN THE CURRENT ENGINEERING CRITERIA MANUAL. FINAL CONSTRUCTION AND FOUNDATION DETAILS FOR THE CONTECH BOX CULVERT SHALL BE PROVIDED TO EL PASO COUNTY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OR PLAT RECORDATION, WHICHEVER COMES FIRST.
- SIGNING AND STRIPING NOTES:
- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCFD).
  - REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
  - ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
  - ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
  - STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
  - ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
  - ALL STREET NAME SIGNS SHALL HAVE D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
  - ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
  - ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
  - ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
  - ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH.
  - ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL

ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1. PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.

13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.

14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE, AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY (EPC) STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE (LDC), THE ENGINEERING CRITERIA MANUAL (ECM), THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME 1 AND 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
  - A PRECONSTRUCTION MEETING BETWEEN THE PERMIT HOLDER(S) AND EL PASO COUNTY SHALL BE HELD PRIOR TO ANY CONSTRUCTION ACTIVITIES. IT IS THE RESPONSIBILITY OF THE PERMIT HOLDER(S) TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF. NO LAND DISTURBANCE OR CONSTRUCTION ACTIVITIES BEYOND THE INSTALLATION OF THE INITIAL CONSTRUCTION CONTROL MEASURES (CCMS), AS INDICATED ON THE APPROVED GEC PLAN OR CDS WITH GEC PLANS, MAY OCCUR PRIOR TO RECEIVING A NOTICE TO PROCEED (NTP) ISSUED BY THE ECM ADMINISTRATOR. FAILURE TO OBTAIN A NOTICE TO PROCEED PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES MAY RESULT IN AN IMMEDIATE STOP WORK ORDER (SWO).
  - CONSTRUCTION CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. STORMWATER RUNOFF FROM ALL DISTURBED AREAS AND SOIL STORAGE AREAS MUST UTILIZE OR FLOW TO ONE OR MORE CCM(S) TO MINIMIZE EROSION OR SEDIMENT IN THE DISCHARGE. THE CCM(S) MUST CONTAIN OR FILTER FLOWS IN ORDER TO PREVENT THE BYPASS OF FLOWS WITHOUT TREATMENT AND MUST BE APPROPRIATE FOR STORMWATER RUNOFF FROM DISTURBED AREAS AND FOR THE EXPECTED FLOW RATE, DURATION, AND FLOW CONDITIONS (E.G., SHEET OR CONCENTRATED FLOW).
  - ALL CCMS SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL FINAL STABILIZATION IS ACHIEVED. THE QUALIFIED STORMWATER MANAGER (QSM) SHALL ASSESS THE ADEQUACY OF CCMS AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CCMS ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CCMS.
  - PRIOR TO CONSTRUCTION THE PERMIT HOLDER(S) SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
  - MANAGEMENT OF THE STORMWATER MANAGEMENT PLAN (SWMP) DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QSM. THE SWMP SHALL BE LOCATED ON-SITE OR DIGITALLY ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED AS WRITTEN FROM THE START OF CONSTRUCTION ACTIVITY UNTIL FINAL STABILIZATION IS ACHIEVED. THE QSM SHALL AMEND THE SWMP WHEN THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE SITE WHICH WOULD REQUIRE THE IMPLEMENTATION OF NEW OR REVISED CCMS OR IF THE SWMP PROVES TO BE INEFFECTIVE IN CONTROLLING POLLUTANTS IN STORMWATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY OR WHEN CCMS ARE NO LONGER NECESSARY AND ARE REMOVED. THE QSM SHALL MAINTAIN A RECORD OF AMENDMENTS MADE TO THE SWMP THAT INCLUDES THE DATE AND IDENTIFICATION OF THE CHANGES.
  - EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A RECEIVING WATER UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED. IN ADDITION TO MAINTAINING 50 HORIZONTAL FEET OF PRE-EXISTING VEGETATION UPGRADIENT OF A RECEIVING WATER (UNLESS INFEASIBLE AND APPROVED), THE PERMIT HOLDER(S) MUST INSTALL CCMS UPGRADIENT OF THE VEGETATIVE BUFFER.
  - TEMPORARY STABILIZATION MEASURES SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
  - EROSION CONTROL BLANKET (ECB) OR OTHER APPROVED CONTROL MEASURE(S) SHALL BE USED ON SLOPES STEEPER THAN 3:1.
  - VEHICLE TRACKING CONTROLS (VTC) MUST BE IMPLEMENTED TO MINIMIZE VEHICLE TRACKING OF SEDIMENT FROM DISTURBED AREAS. VTCs MUST INCLUDE A STRUCTURE CONTROL MEASURE (E.G., TRACKING PAD) AND MAY INCLUDE A NON-STRUCTURAL CONTROL MEASURE (E.G., SWEEPING). MATERIAL TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- ANY TEMPORARY OR PERMANENT CONTROL MEASURE DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED

CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF-SITE.

12. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER, PERMANENT CONTROL MEASURES (PCMS), OR DITCHES EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.

13. ALL PCMS SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PCMS MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.

14. SOIL COMPACTION MUST BE MINIMIZED IN AREAS WHERE INFILTRATION PCMS WILL BE INSTALLED OR IN AREAS WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION PCMS SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF SOIL COMPACTION DOES OCCUR IN AREAS WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER OR IN AREAS WHERE INFILTRATION PCMS WILL BE INSTALLED, DECOMPACTION OF THE SOIL MUST BE COMPLETED PRIOR TO PLANTING OR INSTALLATION OF THE PCM(S). AN INFILTRATION TEST MUST BE CONDUCTED FOR ALL INFILTRATION PCMS AND THE INFILTRATION TEST RESULTS SUBMITTED TO EL PASO COUNTY PRIOR TO PRELIMINARY ACCEPTANCE (PA).

15. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND PERMANENT STABILIZATION METHODS ARE COMPLETE. WHEN USING VEGETATIVE COVER AS A PERMANENT STABILIZATION METHOD, THE VEGETATION SHALL BE EVENLY DISTRIBUTED PERENNIAL VEGETATION AND OF THE VARIETY AND SPECIES FOUND IN THE COUNTY-APPROVED SEED MIXES OR IN THE APPROVED GEC PLAN. VEGETATION COVERAGE SHALL BE, AT A MINIMUM, EQUAL TO 70% OF WHAT WOULD HAVE BEEN PROVIDED BY NATIVE VEGETATION IN A LOCAL, UNDISTURBED AREA OR ADEQUATE REFERENCE SITE. ALL TEMPORARY CCMS SHALL BE REMOVED UPON FINAL STABILIZATION AND PRIOR TO STORMWATER PERMIT TERMINATION.

16. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.

17. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO BE DISCHARGED OFFSITE OR TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR CONTROL MEASURES. CONCRETE WASHOUT AREAS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK, OR STREAM.

18. DURING CONSTRUCTION DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT'S (CDPHE) LOW RISK DISCHARGE GUIDANCE POLICY FOR DISCHARGES OF UNCONTAMINATED GROUNDWATER TO LAND. IF CONSTRUCTION DEWATERING OPERATIONS ARE UNABLE TO MEET ALL CRITERIA, CONDITIONS, AND CONTROL MEASURE REQUIREMENTS OF THE LOW RISK DISCHARGE GUIDANCE POLICY, A COLORADO DISCHARGE PERMIT SYSTEM (CDPS) GENERAL PERMIT COG080000 WILL BE REQUIRED.

19. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTE FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES, OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.

20. THE PERMIT HOLDER(S) SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.

21. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.

22. MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. APPROPRIATE CMS SHALL BE UTILIZED BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.

23. BULK STORAGE (I.E., INDIVIDUAL CONTAINERS OF 55 GALLONS OR GREATER) OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT, OR EQUIVALENT PROTECTION, TO CONTAIN ALL SPILLS ON-SITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM, OR OTHER FACILITIES.

24. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.

25. ON AREAS OF EXPOSED SOIL, MINIMIZE DUST THROUGH THE APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES. WATER APPLICATION MUST BE CONDUCTED IN A MANNER TO PREVENT DISCHARGE OFFSITE UNLESS AUTHORIZED BY A CDPS OR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT.

26. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.

27. FOR SITES WHERE A SOILS REPORT IS REQUIRED, THE APPROVED SOILS REPORT FOR THIS SITE SHALL BE CONSIDERED A PART OF THESE PLANS.

28. PERMIT HOLDER(S) AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUME 2, AND ENGINEERING CRITERIA MANUAL. ALL APPLICABLE LOCAL, STATE, AND FEDERAL PERMITS MUST BE OBTAINED PRIOR TO CONSTRUCTION. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE OR LESS THAN 1 ACRE AND PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE THAT WOULD DISTURB 1 OR MORE ACRES, THE PERMIT HOLDER(S) SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE (COR400000 PERMIT) TO THE CDPHE WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A SWMP, OF WHICH THIS GEC PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT  
WATER QUALITY CONTROL DIVISION  
WQCD - PERMITS  
4300 CHERRY CREEK DRIVE SOUTH  
DENVER, CO 80246-1530  
ATTN: PERMITS UNIT

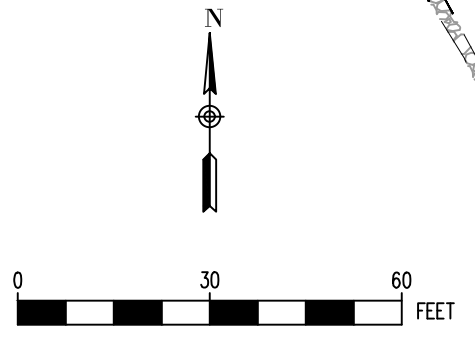
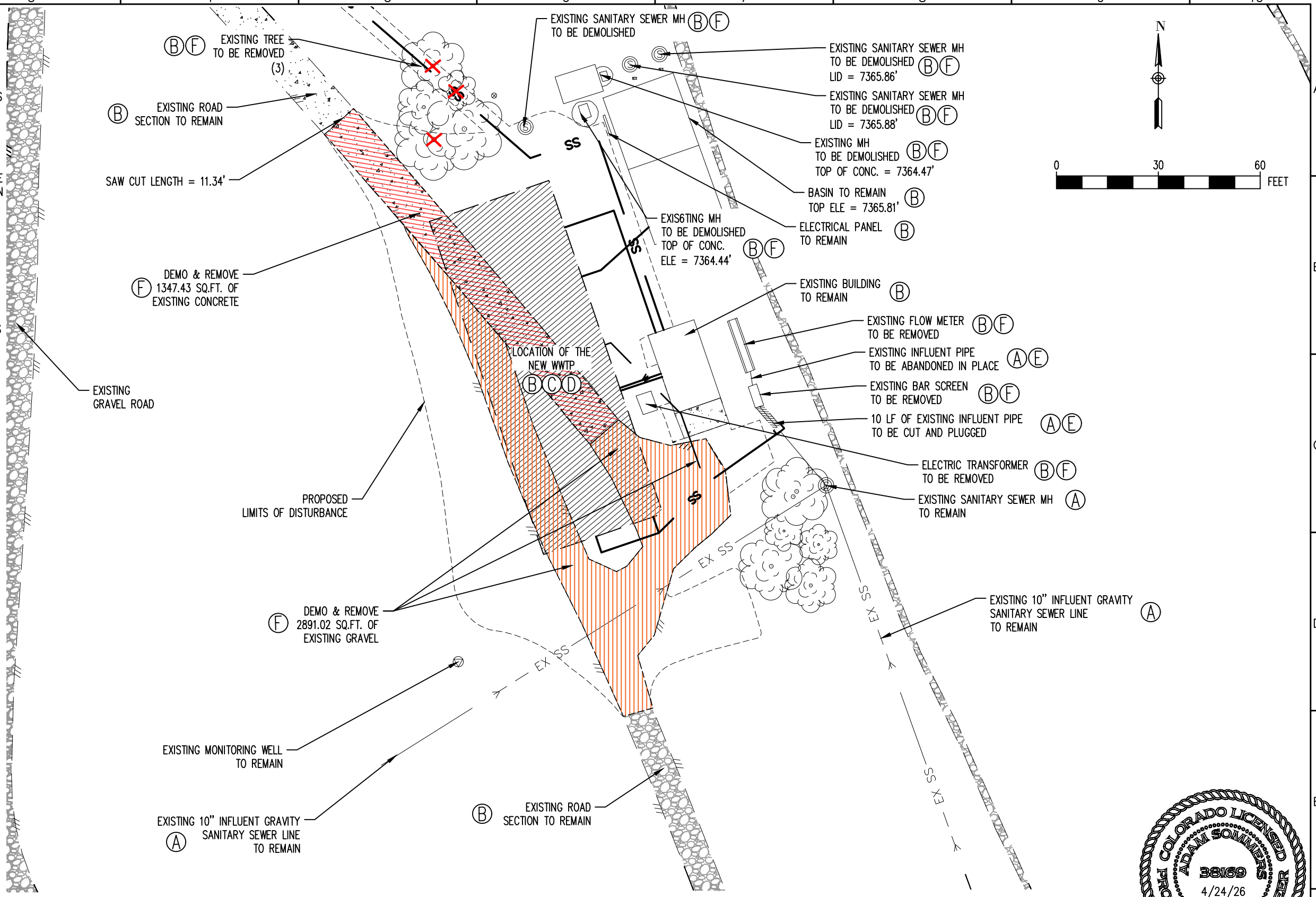


**DEMOLITION NOTES:**

1. SITE DEMOLITION TO BE COORDINATED WITH ENGINEER AND OWNER WITH RESPECT TO EQUIPMENT OR FACILITIES TO REMAIN IN SERVICE, TO BE REMOVED, OR TO BE ABANDONED IN PLACE.
2. THE CONTRACTOR IS NOT TO DAMAGE CURBS, WALKS OR PAVING WHICH IS NOT INCLUDED IN THE SITE PREPARATION OR DEMOLITION SHOWN ON THE PLANS. THE COST TO REPAIR ANY SUCH DAMAGE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. REMOVE AND DISPOSE OF ALL PAVING MATERIALS PROPERLY, INCLUDING BASE COURSE AND ANY OTHER DEBRIS ENCOUNTERED.
4. CONCRETE OR ASPHALT SAWCUTS SHALL BE CRISP CLEAN CUTS THAT ARE NEAT IN APPEARANCE. LOCATE ALL SAWCUTS AS REQUIRED PER DIRECTION OF THE ENGINEER.
5. ALL EXISTING TREES AND VEGETATION ARE TO BE PROTECTED IN PLACE, UNLESS SPECIFICALLY NOTED FOR REMOVAL ON THE PLANS.
6. SITE REVEGETATION SHALL COMPLY WITH THE MUNICIPAL/COUNTY STANDARDS AND THE PROJECT REVEGETATION SPECIFICATION, AND LANDSCAPE PLAN, AS APPLICABLE.
7. THE CONTRACTOR SHALL REPLACE TO ORIGINAL CONDITION OR BETTER AT THEIR EXPENSE ALL VEGETATION THAT IS DAMAGED BY CONSTRUCTION OPERATIONS.
8. THE CONTRACTOR IS TO ADHERE TO SPOT ELEVATIONS AND CONTOURS AS INDICATED ON THE GRADING PLAN. SPOT ELEVATIONS TAKE PRECEDENCE OVER CONTOURS WHERE CONFLICTING INFORMATION IS SHOWN.
9. ALL GRADES ARE TO BE APPROVED BY THE ENGINEER PRIOR TO PERMANENT PLANTING, SEEDING, AND FLAT WORK.
10. ALL AREAS SHALL BE GRADED TO ACHIEVE POSITIVE DRAINAGE, AS DEFINED IN THE SPECIFICATIONS.
11. EXCAVATIONS INCLUDES ALL MATERIAL ENCOUNTERED TO THE DEPTH INDICATED ON THE PLANS. EXCAVATE TO ALLOW FOR PROPER FILL MATERIAL, SLABS, VOIDS, FORMS, AND FOUNDATIONS, AND FOR THE REMOVAL OF UNSUITABLE MATERIALS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING GRADING AND EXCAVATION.
12. ALL BEDDING, BACKFILL SUBGRADE CONSTRUCTION, AND EMBANKMENT SHALL BE CONSTRUCTED ACCORDING TO THE SPECIFICATIONS AND GEOTECHNICAL REPORT.
13. REFER TO GRADING PLAN FOR ALL SITE ELEVATIONS AND GRADING REQUIREMENTS.
14. REFER TO CIVIL DETAIL SHEETS FOR SITE DETAILS.
15. CONTRACTOR AND OWNER TO COORDINATE WITH UTILITY PROVIDERS FOR RELOCATION OF EXISTING INFRASTRUCTURE.

**SEQUENCING NOTES (NOT INCLUSIVE OF ALL ACTIVITIES):**

- A. MAINTAIN EXISTING 10" INFLUENT LINE AND 8" DISCHARGE LINE DURING CONSTRUCTION OF NEW WWTP.
- B. EXISTING STRUCTURES, BUILDINGS AND WASTEWATER FACILITIES TO REMAIN OPERATIONAL UNTIL NEW WWTP HAS COMPLETED CLEAN WATER TESTING AND IS READY TO RECEIVE INFLUENT WASTEWATER.
- C. CONSTRUCT NEW WWTP. INSTALL SITE PIPING. SEE SHEET C3.
- D. CLEAN WATER TEST NEW WWTP IN ACCORDANCE WITH CONTRACT DOCUMENTS AND COMMENCE WASTEWATER TREATMENT AT NEW FACILITY.
- E. ABANDON IN PLACE EXISTING WASTEWATER LINES PLUG AND CAP.
- F. REMOVE APPROX. 2891.02 SQ.FT. OF EXISTING GRAVEL ROAD, APPROX. 1347.43 SQ.FT. OF EXISTING CONCRETE ACCESS ROAD PAVEMENT, DEMOLISH 3 EXISTING MANHOLES.



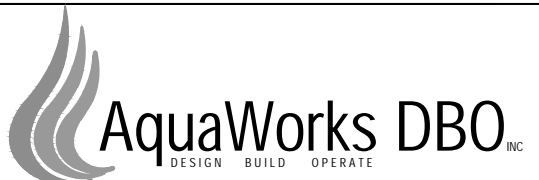
**SITE DEMOLITION & SEQUENCING PLAN**  
1"=30'

PCD PROJ. NO. : PPR2538



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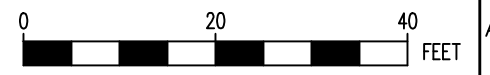
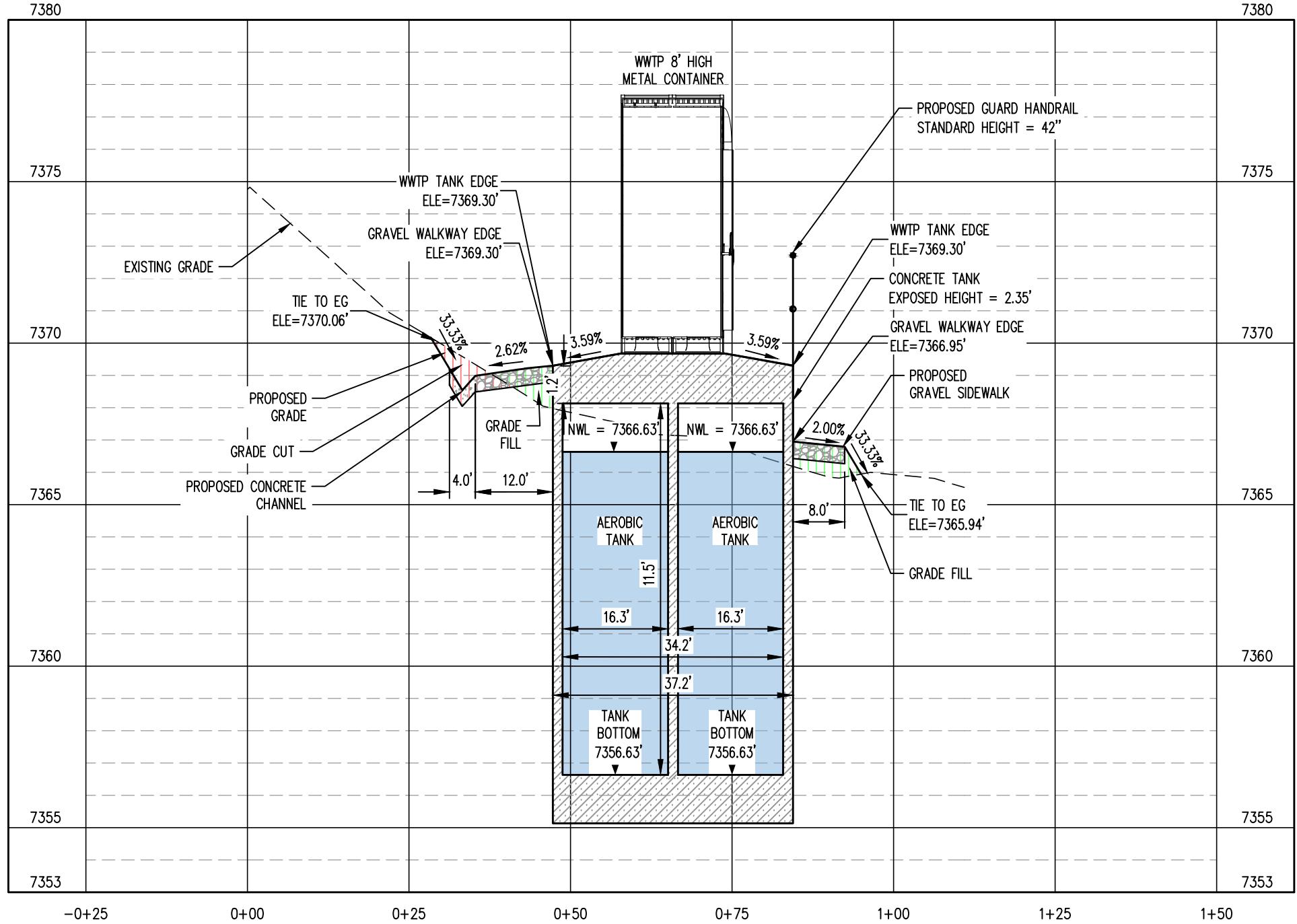


PROJECT: WALDEN CORPORATION WWTP  
 3155 WALKER ROAD COLORADO SPRINGS  
 EL PASO COUNTY, COLORADO  
 ENGINEER: AQUAWORKS DBO, INC.  
 3252 WILLIAMS STREET  
 DENVER, COLORADO 80205  
 (303) 477-5915

SHEET TITLE: SITE DEMOLITION & SEQUENCING PLAN		
PROJECT NUMBER: #3774	SCALE: 1"=30'	SHEET: C4







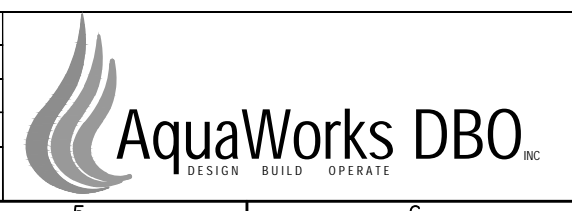
SECTION A-A PROFILE  
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 VERT. SCALE: 1" = 4'



PCD PROJ. NO. : PPR2538

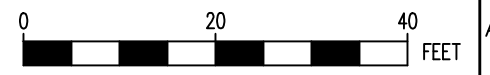
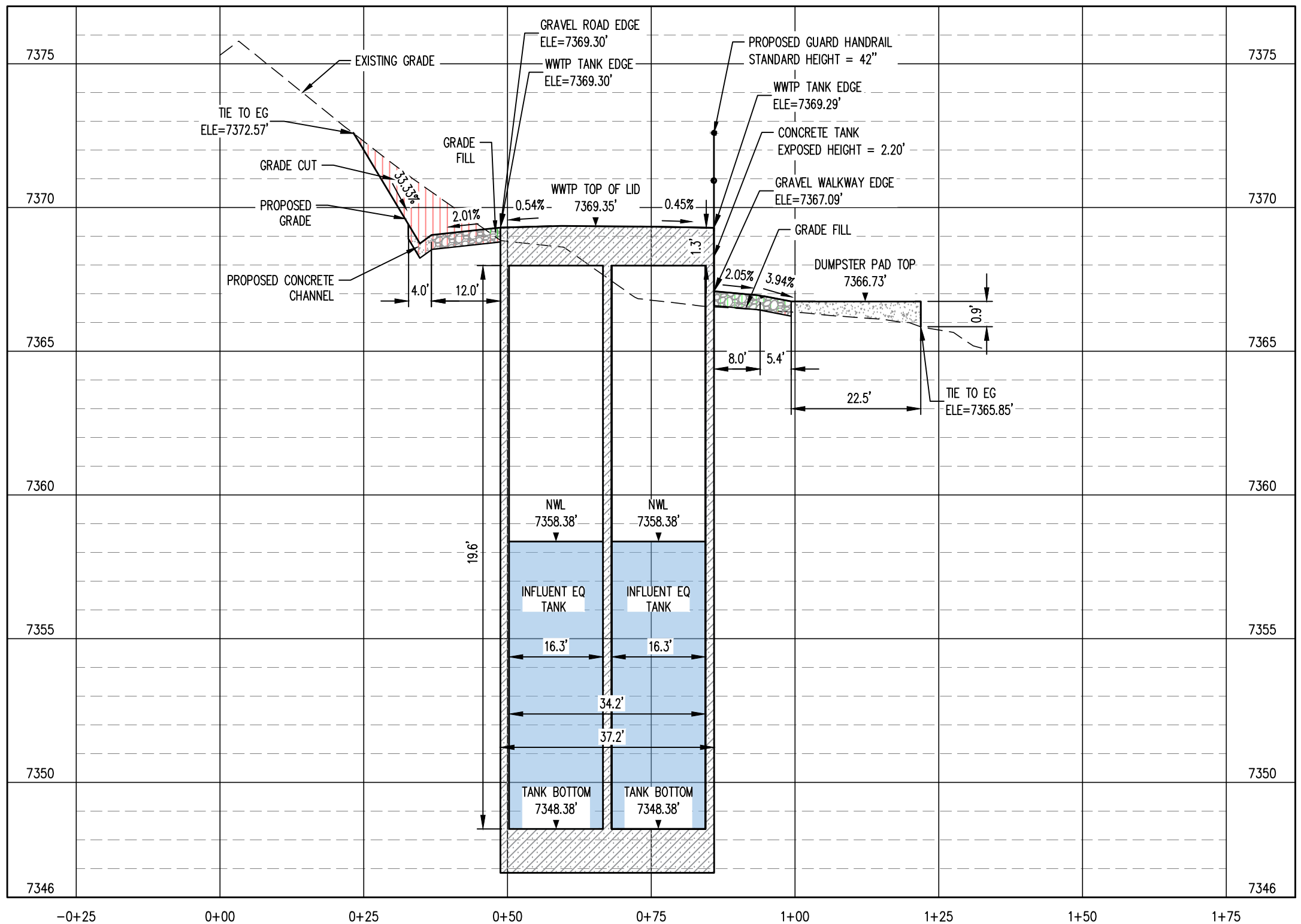
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 DENVER, COLORADO 80205  
 (303) 477-5915

SHEET TITLE: GRADING SECTION A-A		
PROJECT NUMBER: #3774	SCALE: 1"=20'	SHEET: C6.2



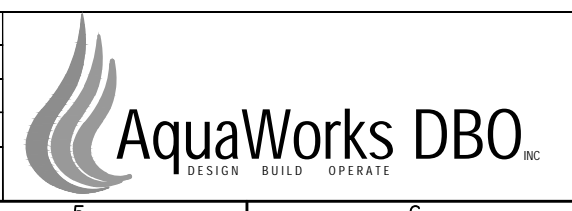
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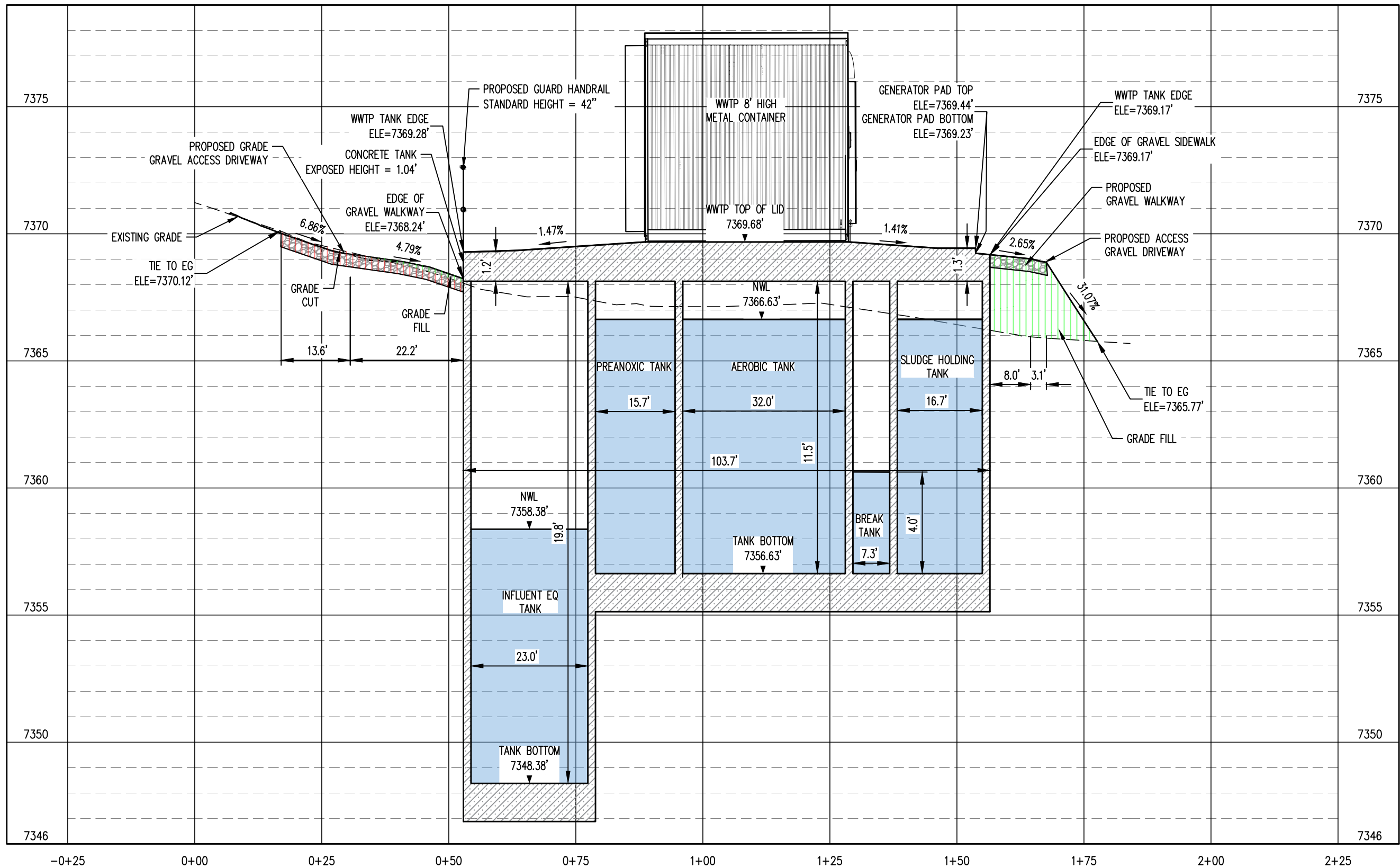
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 (303) 477-5915

SHEET TITLE:		
GRADING SECTION B-B		
PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=20'	C6.3



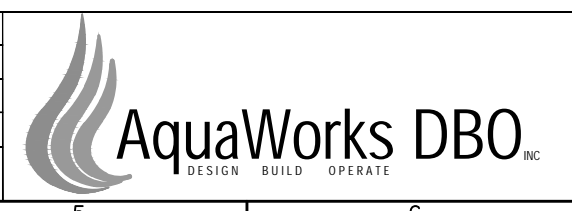
SECTION C-C PROFILE  
 HORZ. SCALE: 1" = 20'  
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PCD PROJ. NO. :PPR2538



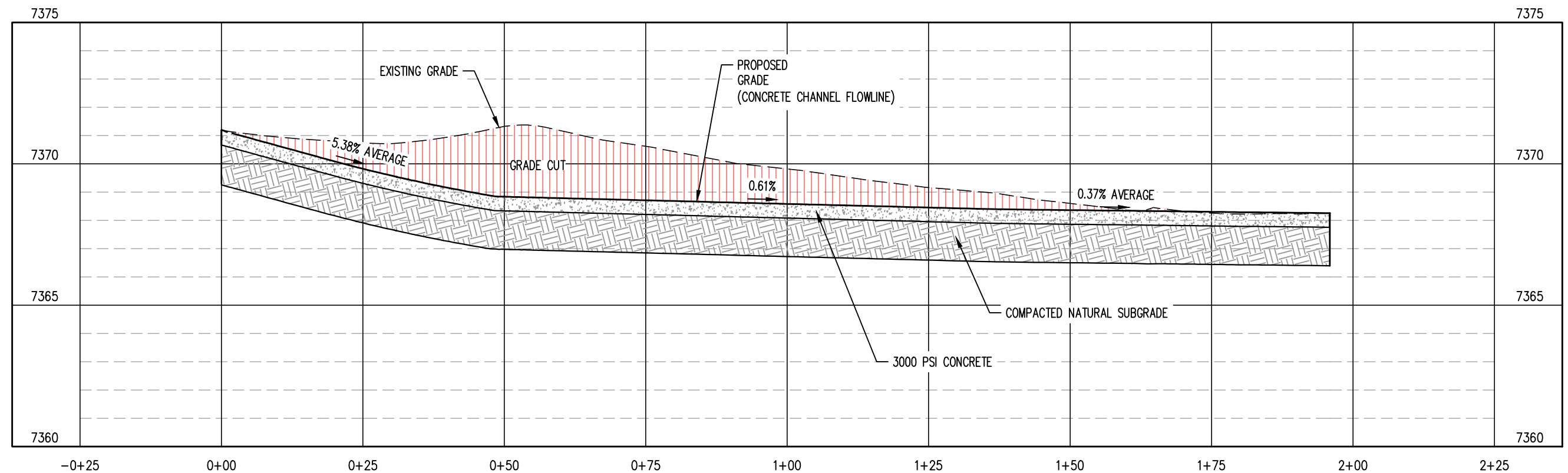
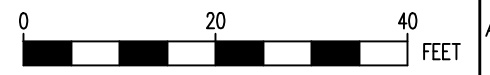
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SHEET TITLE:  
 GRADING SECTION C-C  
 PROJECT NUMBER: #3774  
 SCALE: 1"=20'  
 SHEET: C6.4




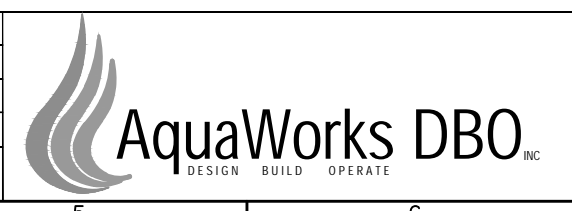
CONCRETE CHANNEL FLOWLINE PROFILE  
 HORZ. SCALE: 1" = 20'  
 VERT. SCALE: 1" = 4'



PCD PROJ. NO. : PPR2538

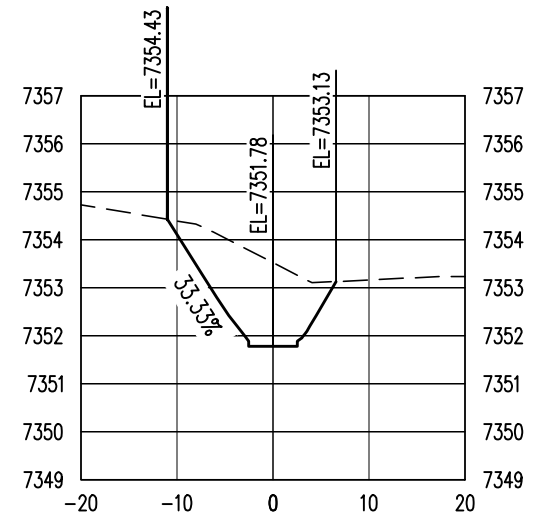
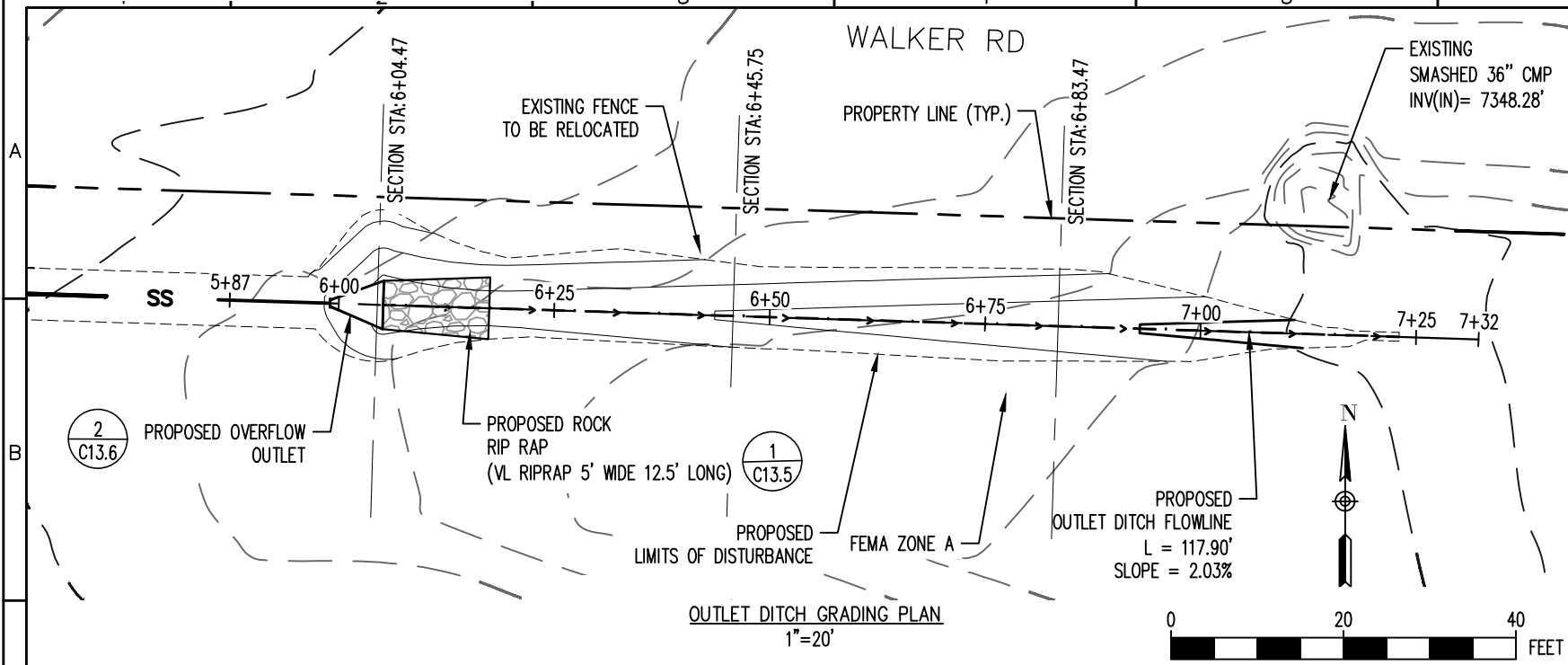
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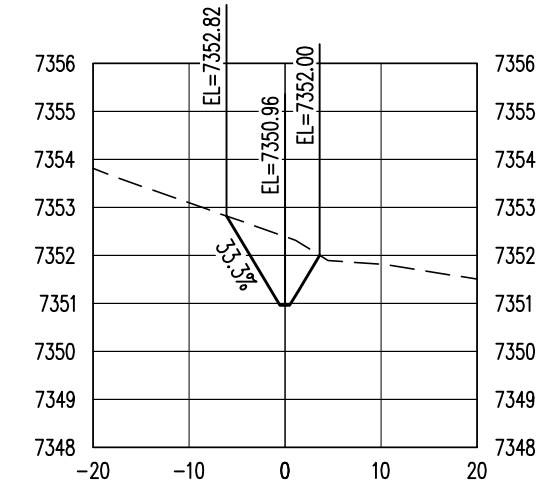


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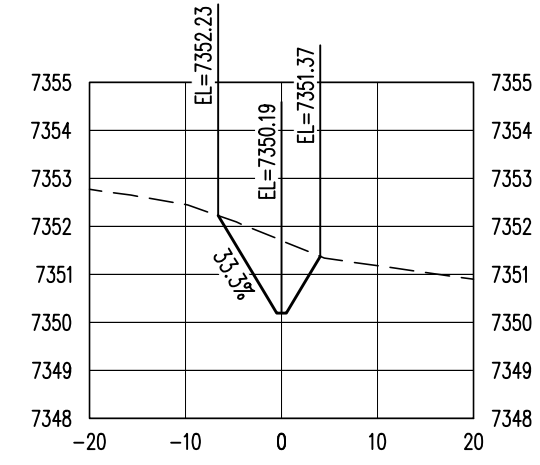
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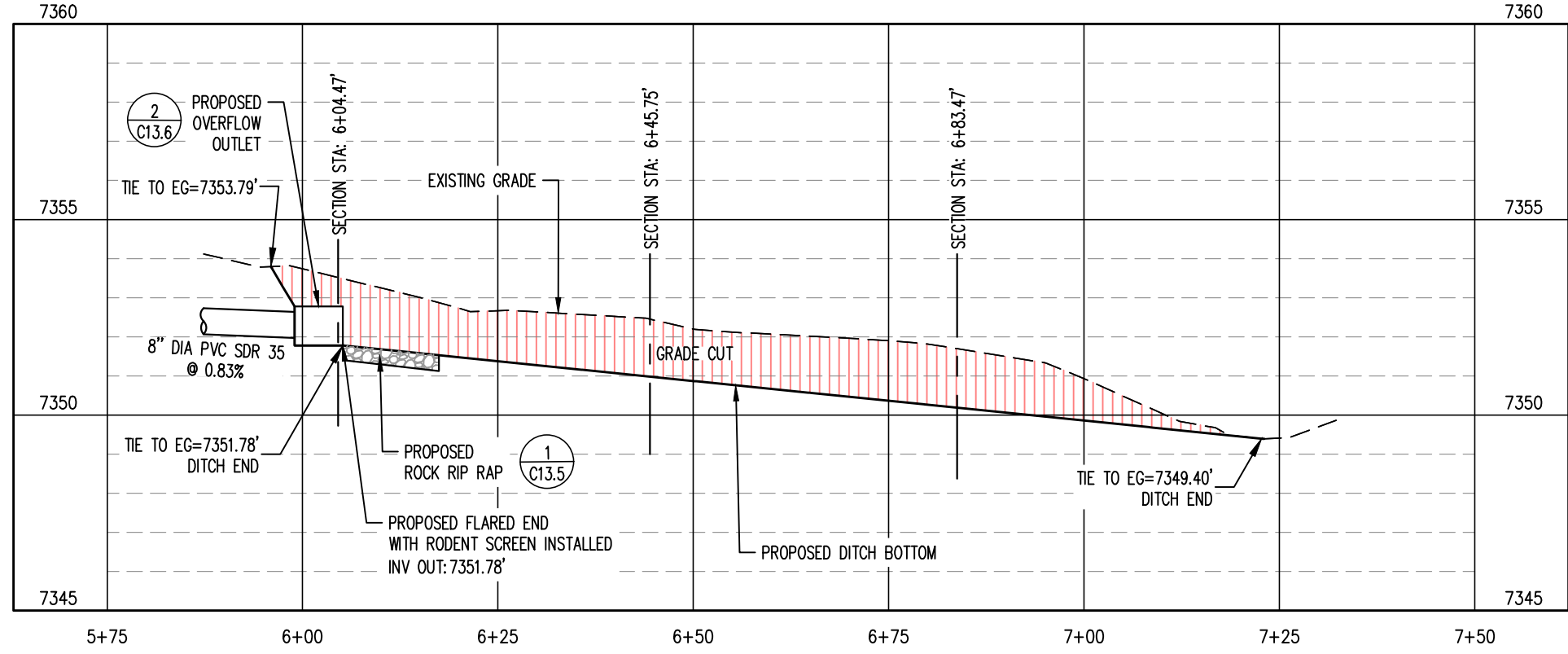
OUTLET DITCH SECTION STA. 6+04.47  
 HORZ. SCALE: 1"=20'  
 VERT. SCALE: 1"=4'



OUTLET DITCH SECTION STA. 6+45.75  
 HORZ. SCALE: 1"=20'  
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OUTLET DITCH SECTION STA. 6+83.47  
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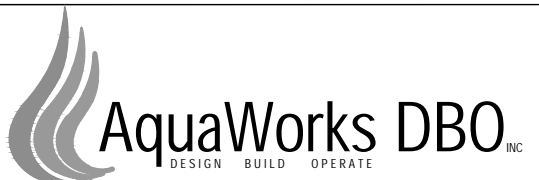
OUTLET DITCH PROFILE  
 HORZ. SCALE: 1" = 20'  
 VERT. SCALE: 1" = 4'

OUTLET DITCH PLAN, PROFILE & SECTIONS  
 1"=20'

PCD PROJ. NO. :PPR2538



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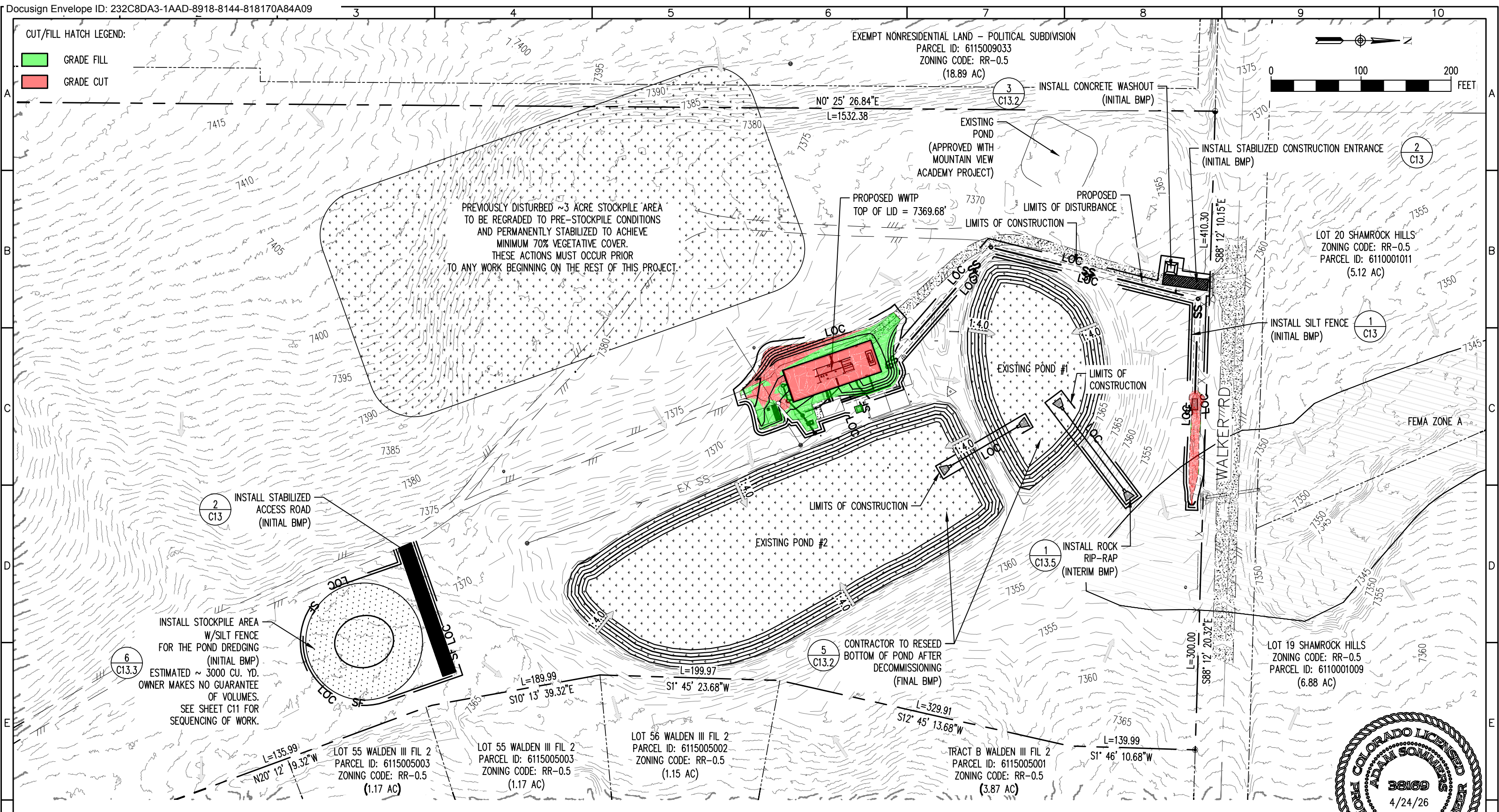
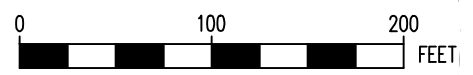


PROJECT: WALDEN CORPORATION WWTP  
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 EL PASO COUNTY, COLORADO  
 ENGINEER: AQUAWORKS DBO, INC.  
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SHEET TITLE:  
 OUTLET DITCH PLAN, PROFILE & SECTIONS  
 PROJECT NUMBER: #3774  
 SCALE: 1"=20'  
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CUT/FILL HATCH LEGEND:

- GRADE FILL
- GRADE CUT




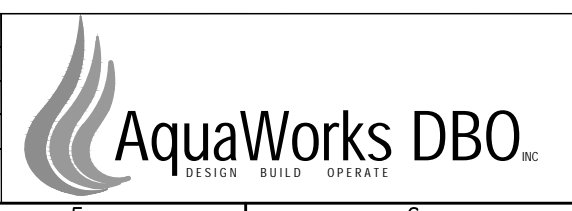
EROSION CONTROL PLAN I  
1:100

PCD PROJ. NO. : PPR2538



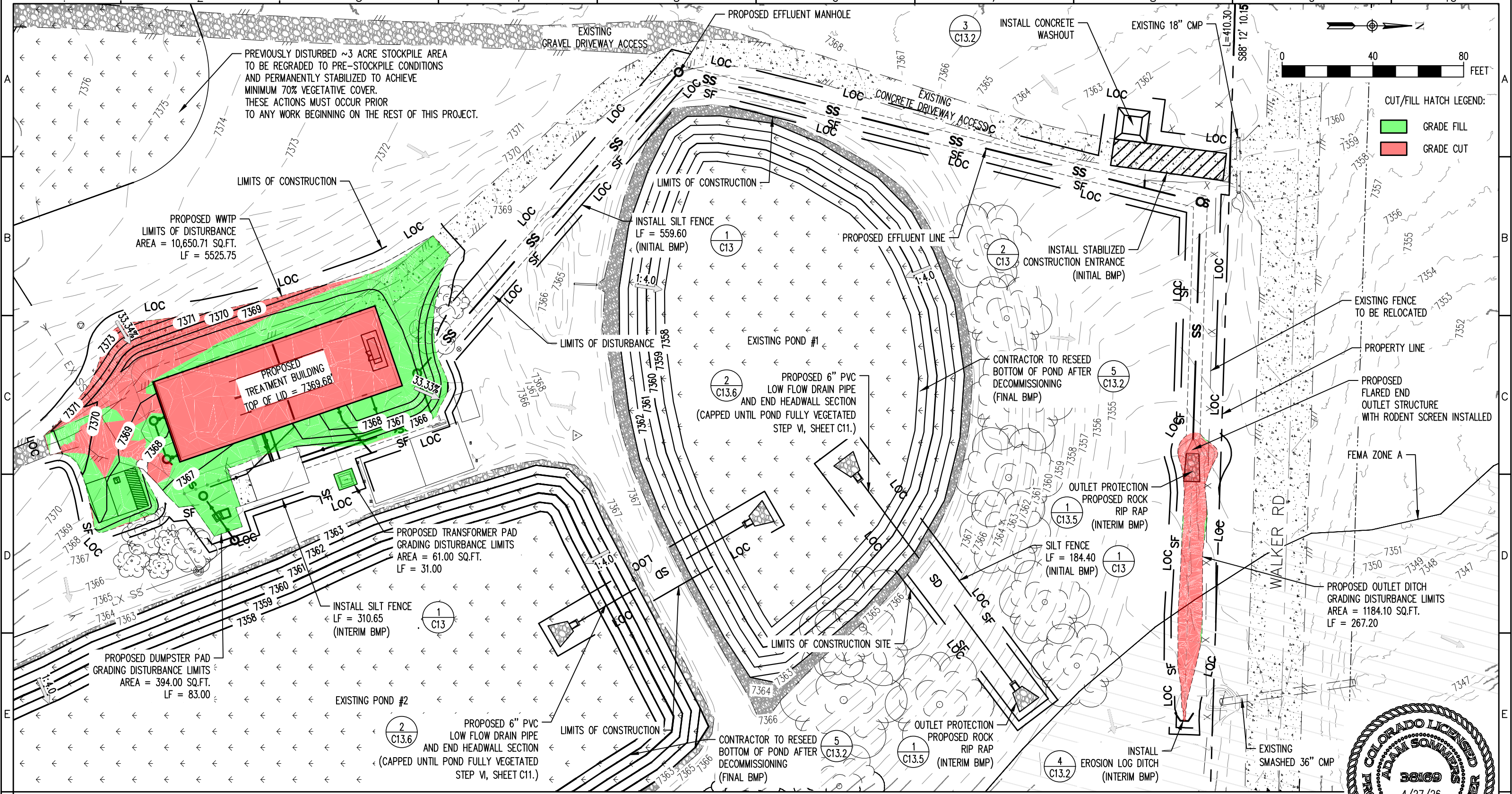
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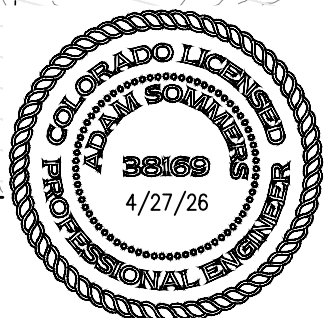
PROJECT: WALDEN CORPORATION WWTP  
 3155 WALKER ROAD COLORADO SPRINGS  
 EL PASO COUNTY, COLORADO  
 ENGINEER: AQUAWORKS DBO, INC.  
 3252 WILLIAMS STREET  
 DENVER, COLORADO 80205  
 (303) 477-5915

SHEET TITLE: EROSION CONTROL PLAN I		
PROJECT NUMBER: #3774	SCALE: 1:100	SHEET: C7.1



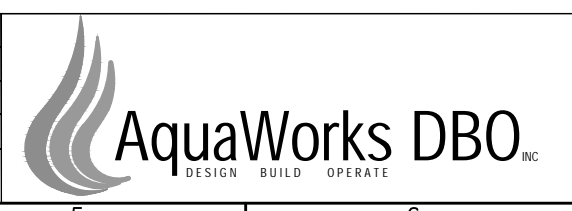
EROSION CONTROL PLAN II  
1"=40'

PCD PROJ. NO. : PPR2538



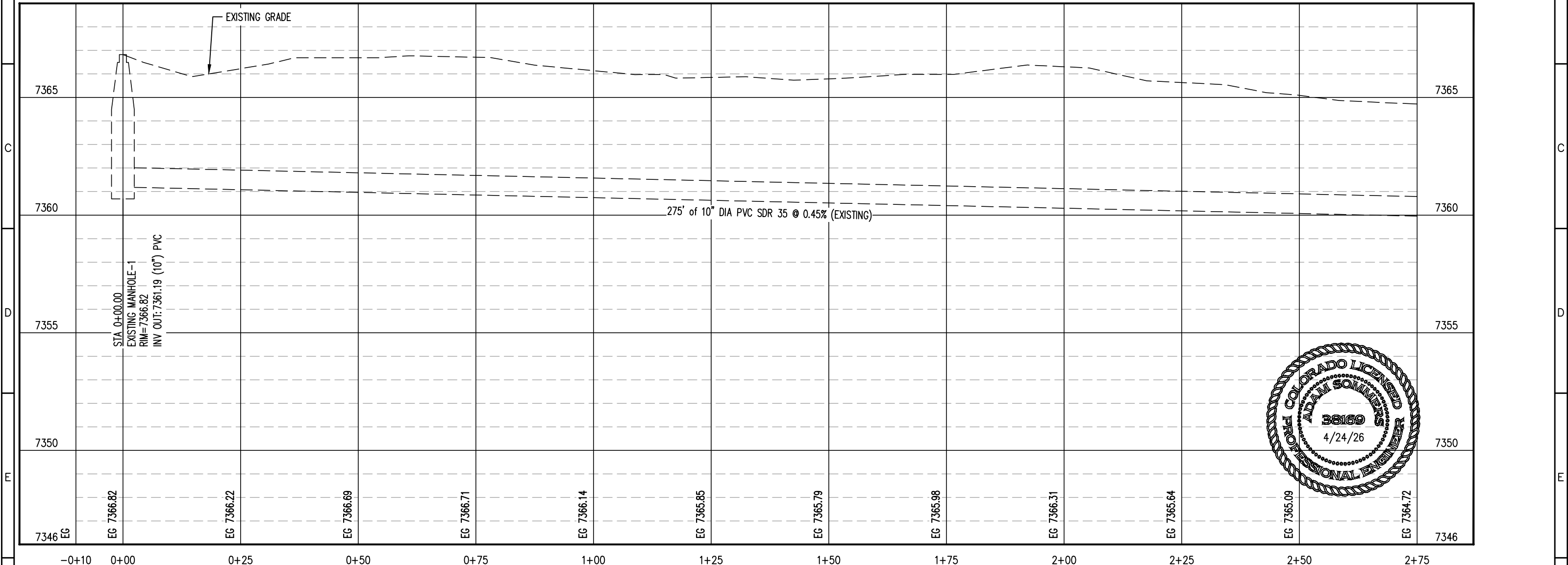
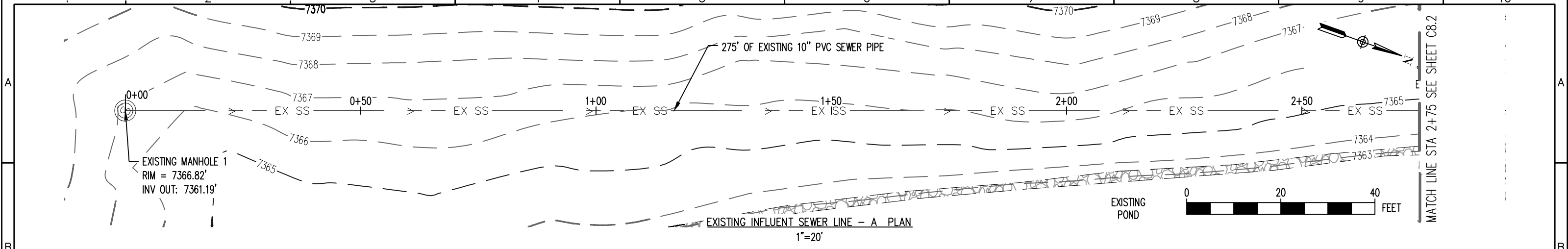
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 EL PASO COUNTY, COLORADO  
 ENGINEER: AQUAWORKS DBO, INC.  
 3252 WILLIAMS STREET  
 DENVER, COLORADO 80205  
 (303) 477-5915

SHEET TITLE: EROSION CONTROL PLAN II		
PROJECT NUMBER: #3774	SCALE: 1"=40'	SHEET: C7.2

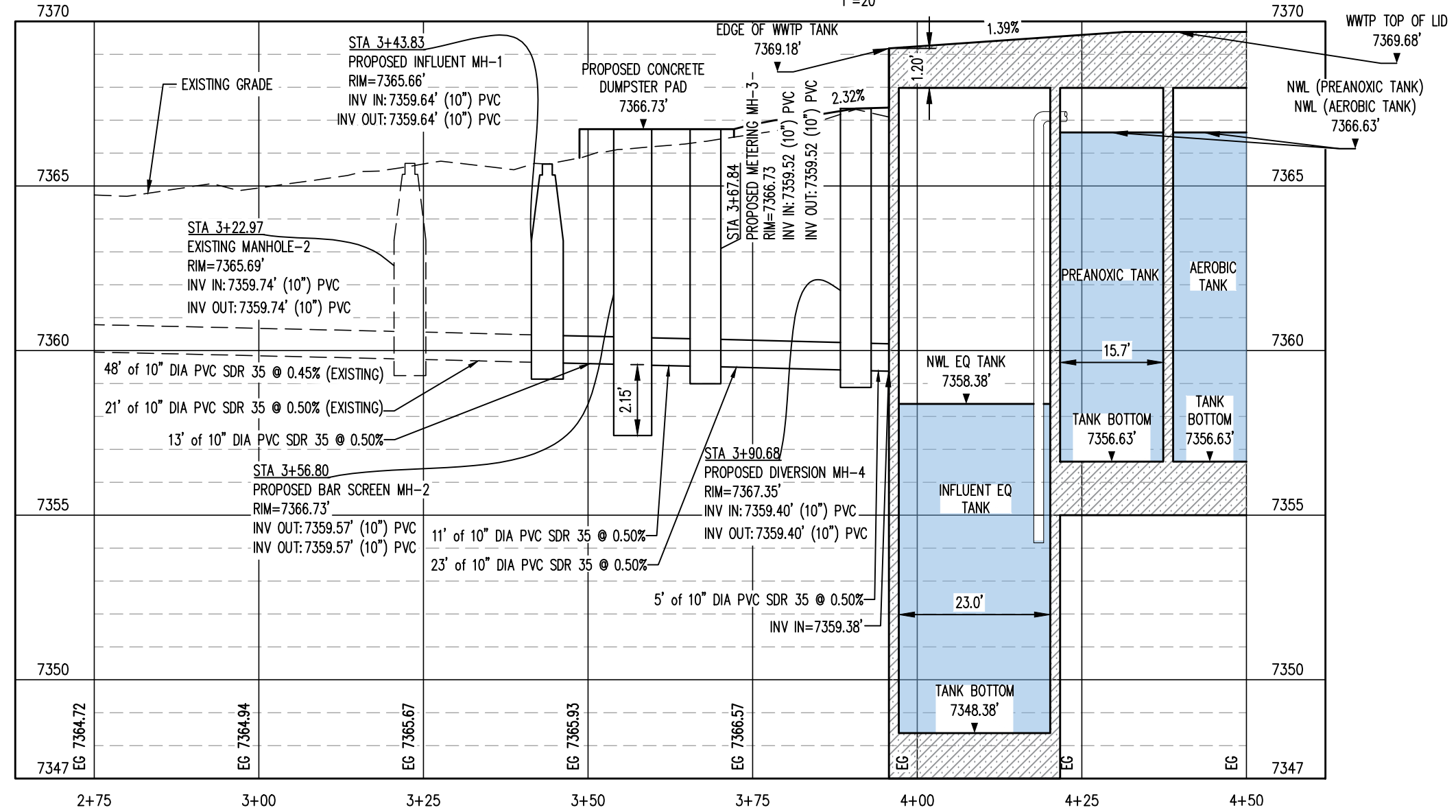
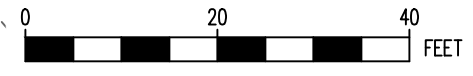
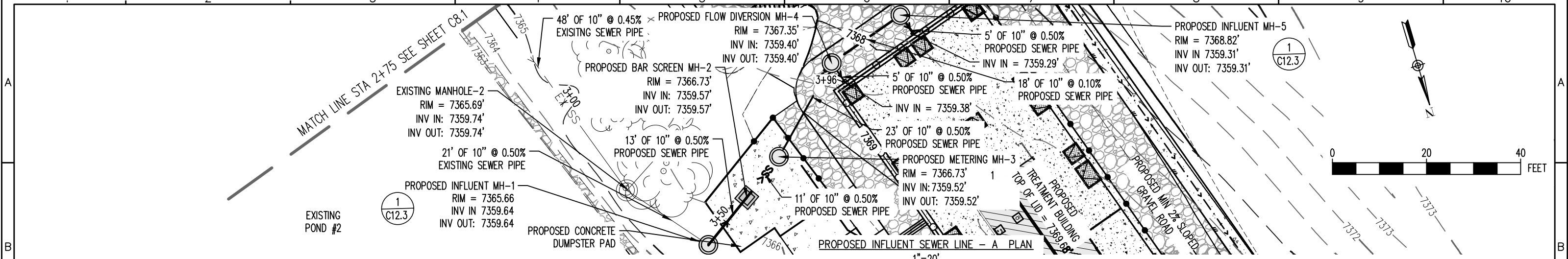


EXISTING AND PROPOSED 10" SEWER INFLUENT LINE PROFILE

HORZ. SCALE: 1" = 20'  
VERT. SCALE: 1" = 4'

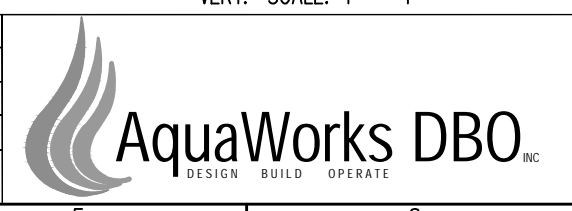
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REV. No:	DATE:	BY:	REVISION DESCRIPTION:	DESIGNED BY: MG		PROJECT: WALDEN CORPORATION WWTP 3155 WALKER ROAD COLORADO SPRINGS EL PASO COUNTY, COLORADO  ENGINEER: AQUAWORKS DBO, INC. 3252 WILLIAMS STREET DENVER, COLORADO 80205 (303) 477-5915	SHEET TITLE: EX. AND PROPOSED 10" SEWER INFLUENT LINE STA 0+00 TO STA 2+75		
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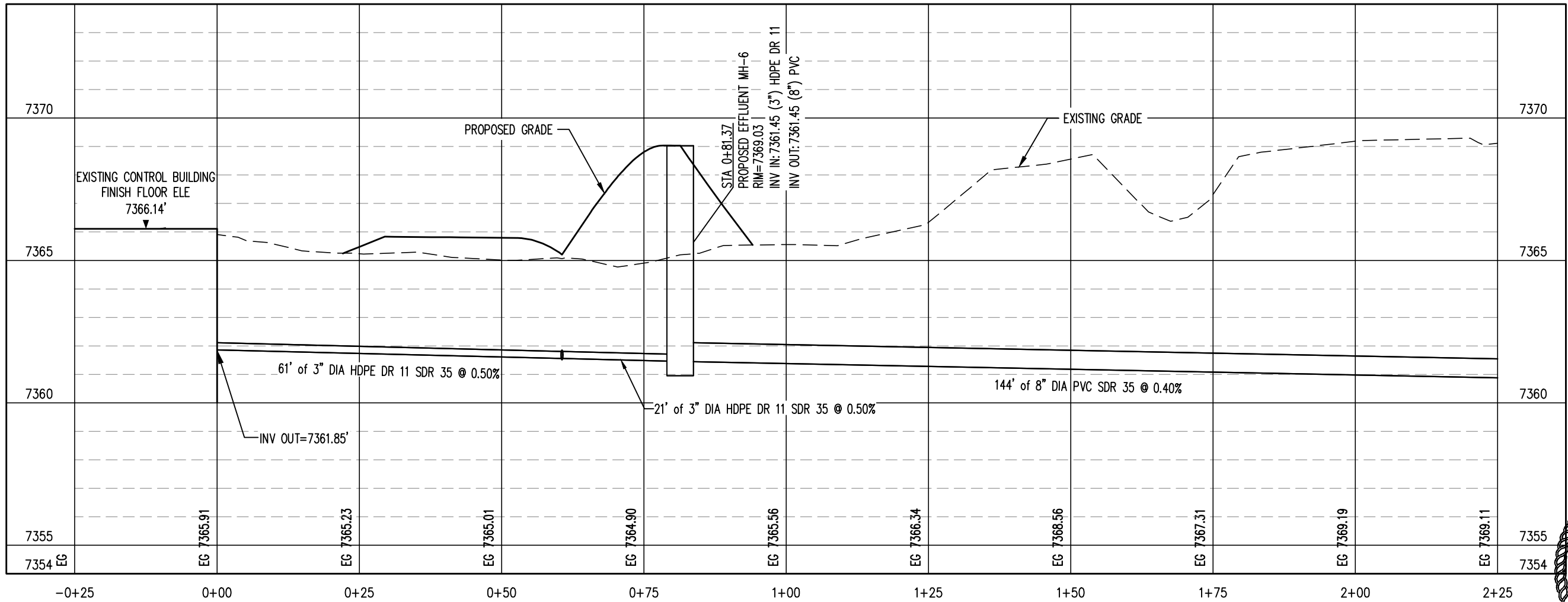
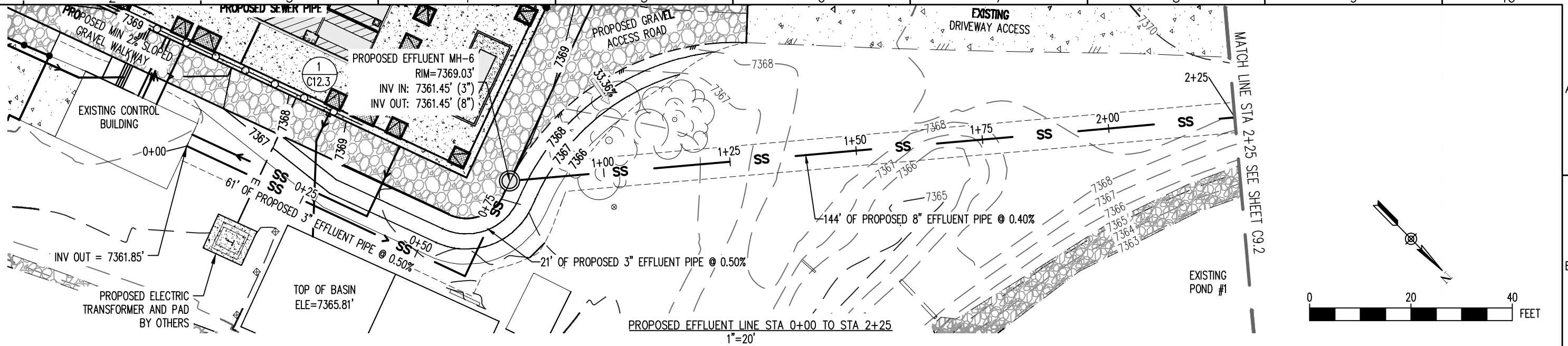
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 EL PASO COUNTY, COLORADO  
 ENGINEER: AQUAWORKS DBO, INC.  
 3252 WILLIAMS STREET  
 DENVER, COLORADO 80205  
 (303) 477-5915

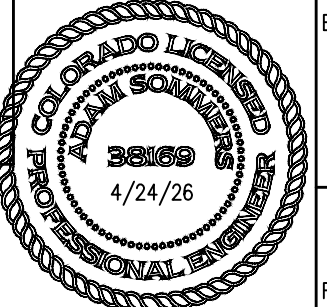
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 INFLUENT LINE STA 2+75 TO END  
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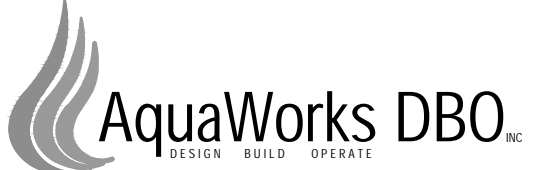
PROPOSED SEWER EFFLUENT LINE PROFILE  
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PCD PROJ. NO. : PPR2538



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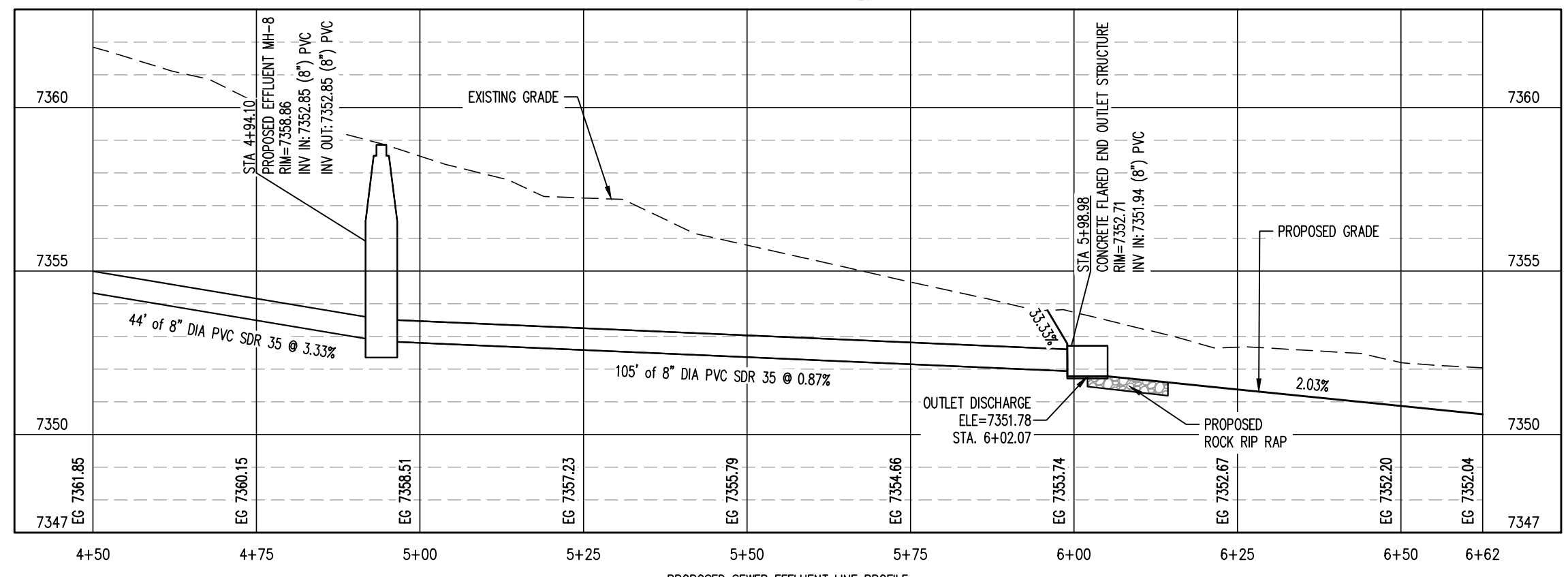
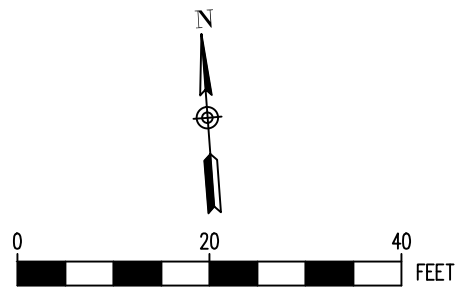
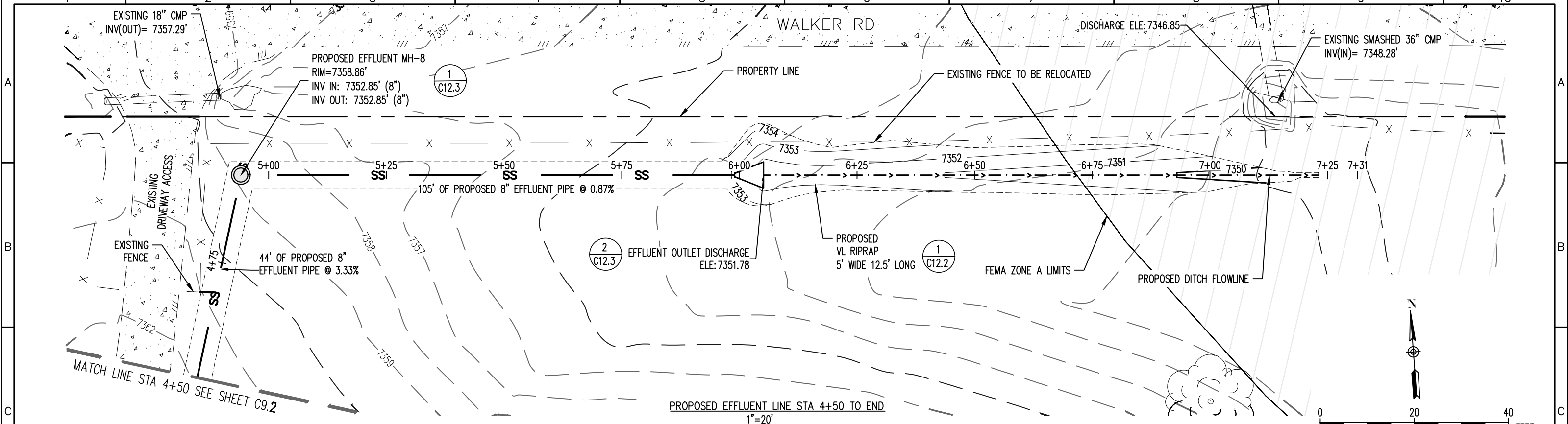
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 ENGINEER: AQUAWORKS DBO, INC.  
 3252 WILLIAMS STREET  
 DENVER, COLORADO 80205  
 (303) 477-5915

SHEET TITLE: PROPOSED EFFLUENT LINE STA 0+00 TO STA 2+25  
 PROJECT NUMBER: #3774  
 SCALE: 1"=20'  
 SHEET: C9.1





PROPOSED SEWER EFFLUENT LINE PROFILE

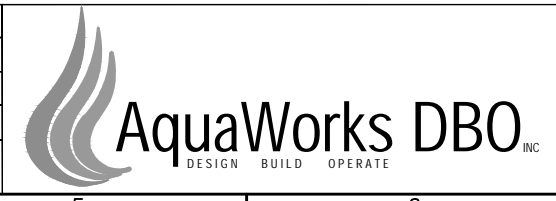
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PCD PROJ. NO. : PPR2538



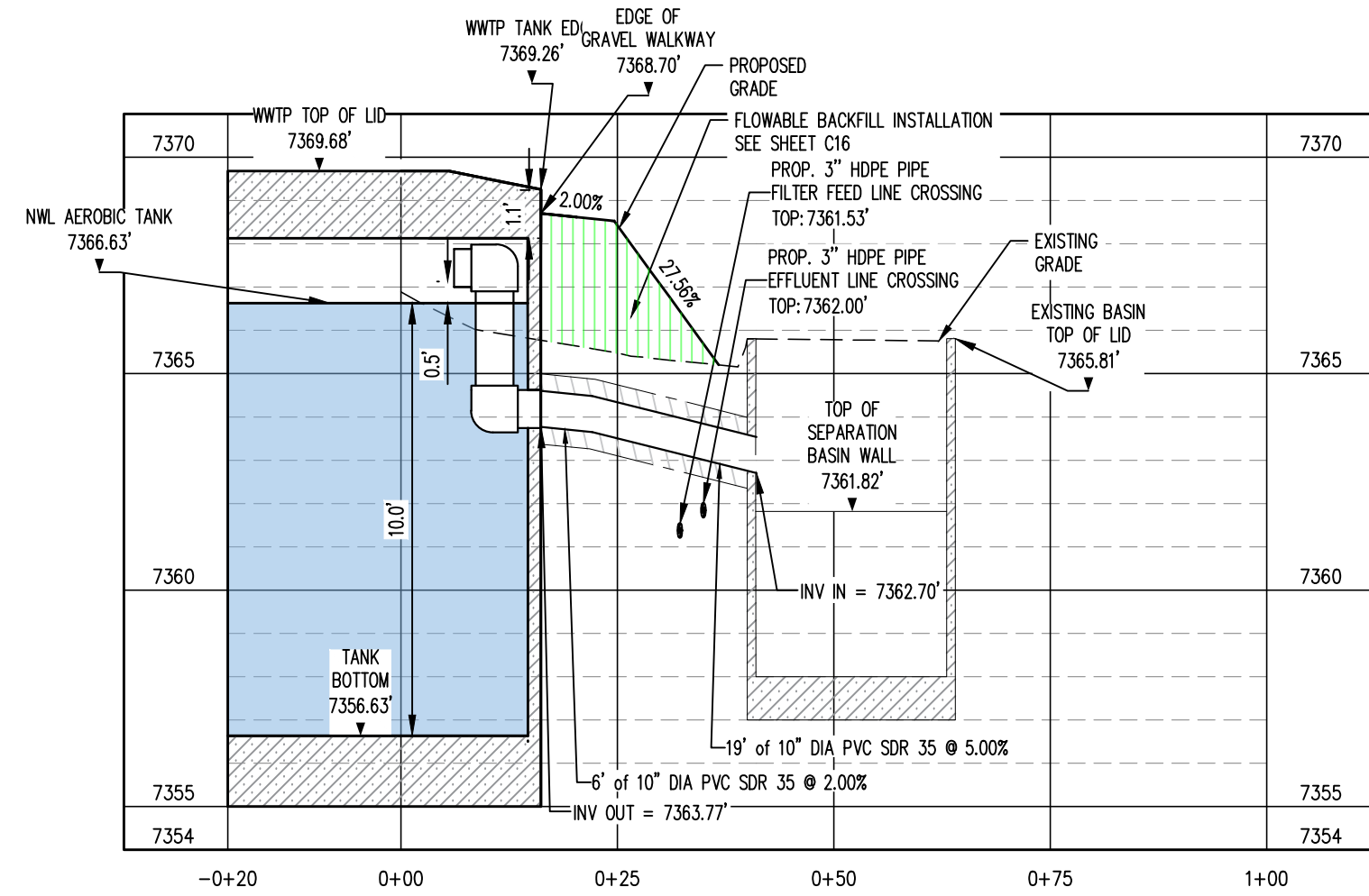
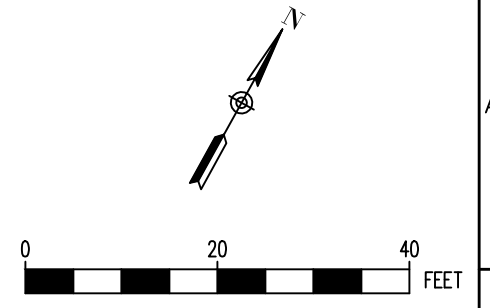
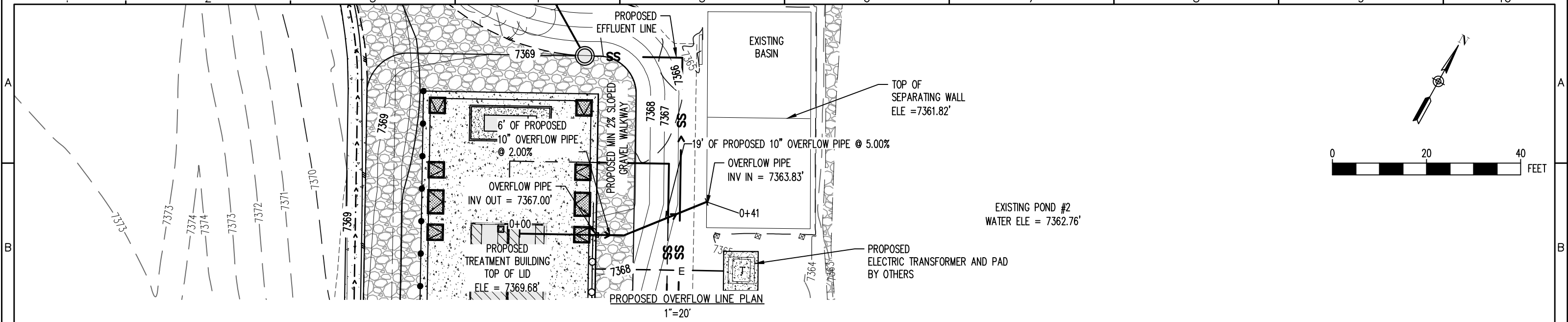
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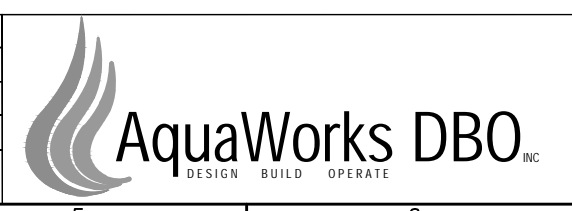
SHEET TITLE: PROPOSED EFFLUENT LINE STA 4+50 TO END		
PROJECT NUMBER: #3774	SCALE: 1"=20'	SHEET: C9.3



PCD PROJ. NO. : PPR2538

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 EL PASO COUNTY, COLORADO  
 ENGINEER: AQUAWORKS DBO, INC.  
 3252 WILLIAMS STREET  
 DENVER, COLORADO 80205  
 (303) 477-5915

SHEET TITLE: PROPOSED 10" OVERFLOW LINE PLAN & PROFILE		
PROJECT NUMBER: #3774	SCALE: 1"=20'	SHEET: C10

**BIOSOLIDS REMOVAL REQUIREMENTS:**

**APPLICABLE REGULATIONS:**  
 ALL OF THE WORK REFORMED BY CONTRACTOR SHALL COMPLY WITH APPLICABLE LAWS, RULES, REGULATIONS, AND CODES OF UNITED STATES AND THE STATE OF COLORADO AND WITH THE ORDINANCES, RULES AND REGULATIONS. REGULATORY AGENCIES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. U.S. – ENVIRONMENTAL PROTECTION AGENCY (EPA)
2. STATE OF COLORADO – DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE)
3. OCCUPATIONAL SAFETY AND HEALTH AGENCY (OSHA)
4. EL PASO COUNTY

**BIOSOLIDS DISPOSAL REQUIREMENTS:**  
 CONTRACTOR TO REMOVE ALL FLUID FROM PONDS AND LEGALLY DISPOSE OF LIQUID BY PROCESSING IT THROUGH THE PROPOSED WASTEWATER TREATMENT PLANT. THE REMAINING BIOSOLIDS SHALL BE DEWATERED ON SITE OR HAULED OFFSITE BY THE CONTRACTOR. IF LIQUID IS HAULED OFFSITE, ONE CUBIC YARD IS EQUAL TO 202 GALLONS. BIOSOLIDS CAKE TO BE HAULED OFFSITE. **ESTIMATED VOLUME OF BIOSOLIDS IS 3000 CUBIC YARDS.** PRIOR TO COMPLETION, CONTRACTOR TO PROVIDE OWNER RECORDS OF ALL THE PERMITS, TESTING RESULTS, AND CONSTRUCTION LOGS. CONTRACTOR TO CERTIFY THAT PROJECT WAS COMPLETED AS SPECIFIED AND CONFORMS TO APPLICABLE LAWS, RULES, AND REGULATIONS.

**SOLID WASTE MANAGEMENT AND DISPOSAL:**  
 WASTE MATERIALS AT A DECOMMISSIONED WWTP (E.G., CONCRETE, SITE PIPING, ETC.) MUST BE PROPERLY MANAGED IN ACCORDANCE WITH REGULATIONS PERTAINING TO THE SOLID WASTE SITES AND FACILITIES 6 CCR 1007-2 (SOLID WASTE REGULATIONS) AND THE SOLID WASTES DISPOSAL SITES AND FACILITIES ACT, TITLE 30, ARTICLE 20, PART 1, COLORADO REVISED STATUTES (CRS), AS AMENDED.

**SEQUENCING OF WORK:**

**STEP I**  
 CONTRACTOR TO REMOVE ALL FLUID FROM PONDS AND LEGALLY DISPOSE OF LIQUID BY PROCESSING IT THROUGH THE PROPOSED WASTEWATER TREATMENT PLANT. CONTRACTOR IS RESPONSIBLE FOR SETTING UP THE DEWATERING PUMPS AND PUMPING THE WATER BACK UP INTO THE PROPOSED TREATMENT PLANT AS PART OF STARTUP.

ONCE DRY, BIOSOLIDS SHALL BE LEFT IN PLACE TO FREEZE OVER THE COURSE OF ONE WINTER SEASON. VOLUME OF BIOSOLIDS ON SITE IS ESIMATED AT 3000 CUBIC YARDS, BUT OWNER MAKES NO GUARANTEE OF VOLUMES.

**STEP II**  
 CONTRACTOR SHALL BEFIN THE PROCESS OF PERMITTING THE LAND APPLICATION SITE CONSISTING OF THE AREA SHOWN ON THIS DRAWING.

**STEP III**  
 ONCE THE BIOSOLIDS ARE DRIED, THEY SHALL BE EXCAVATED FROM PONDS #1 AND #2 AND STOCKPILED ON SITE, CONTRACTOR SHALL TEST THE BOTTOMS OF THE LAGOONS ONCE BIOSOLIDS ARE REMOVED. ONLY THEN THE TWO PROPOSED 6" PVC LOW FLOW DRAIN PIPES SHALL BE INSTALLED WITH CAPS ON AND THE CAPS SHALL NOT BE PULLED OFF UNTIL PONDS ARE COMPLETELY REVEGETATED.

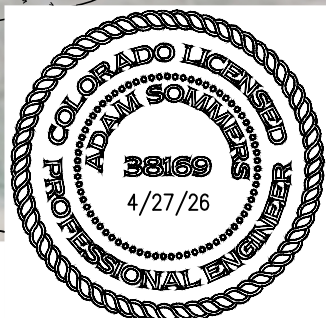
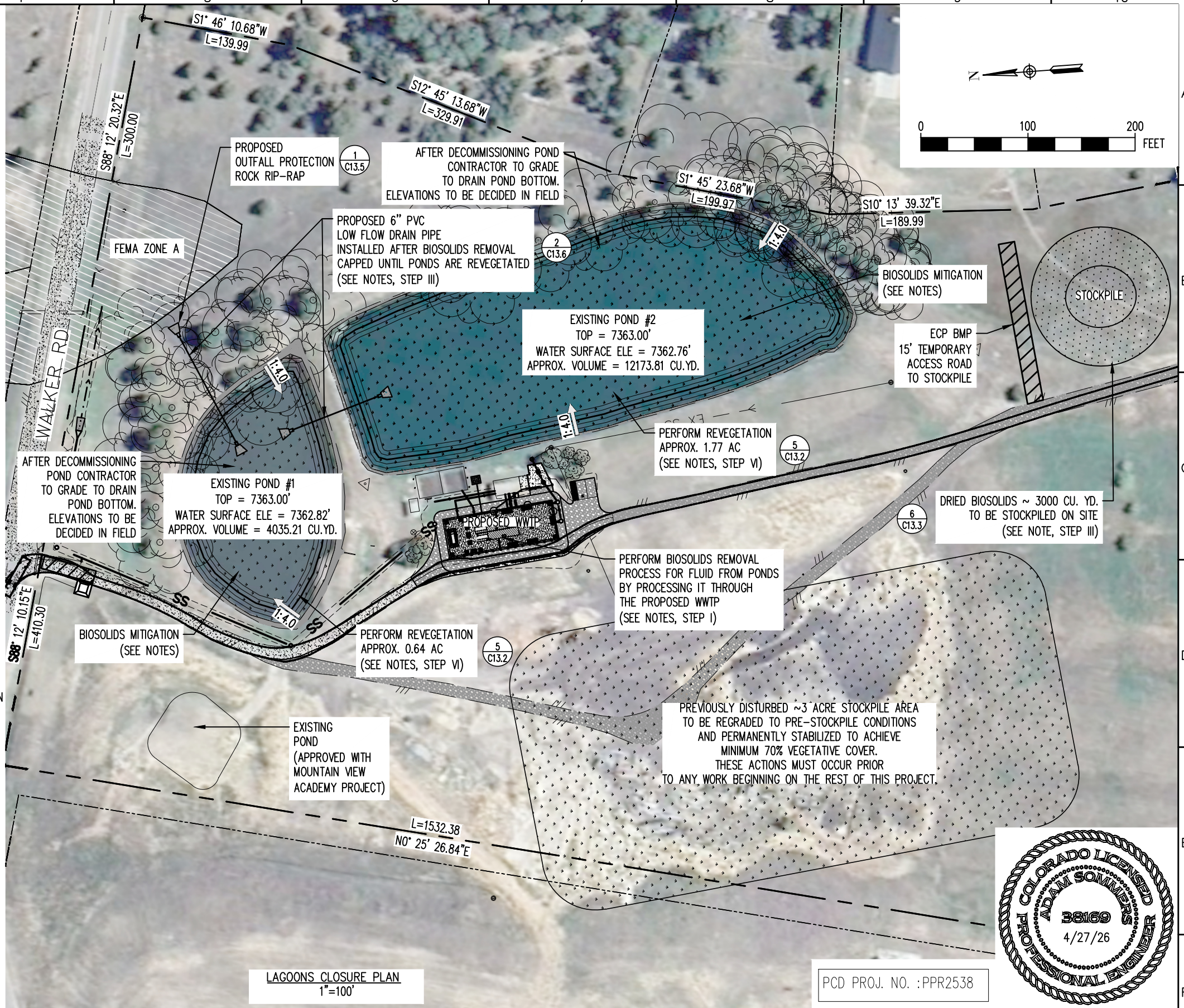
**STEP IV**  
 CONTRACTOR SHALL GRADE THE LAND APPLICATION SITE AS SHOWN IN THE CIVIL DRAWINGS. POND LINERS SHALL BE SCARIFIED AND DEMOLISHED IN PLACE. ALL EXISTING PIPES AND CONCRETE STRUCTURES WITHING THE LAND APPLICATION SITE SHALL BE REMOVED AND DISPOSED OFF.

**STEP V**  
 CONTRACTOR TO REFORM AND PAY FOR ALL TESTING REQUIRED TO DEMONSTARTE BIOSOLIDS MEET CLASS A REQUIREMENTS. CONTRACTOR SHALL OBTAIN ALL PREMIT(S) TO LAND APPLY BIOSOLIDS. ALL BIOSOLIDS SHALL BE SCREENED PRIOR TO LAND APPLICATION SO NO TRASH OR PLASTICS ARE APPLIED TO THE PROPERTY. CONTRACTOR SHALL LANDFILL THE SCREENED TRASH.

**STEP VI**  
 ONCE THE BIOSOLIDS ARE SCREENED AND THE PERMITS ARE APPROVED, CONTRACTOR SHALL LAND APPLY BIOSOLIDS OVER THE GRADED LAND APPLICATION SITE. CONTRACTOR SHALL APPLY REVEGETATION MEASURES ON TOP OF THE BIOSOLIDS AS CALLED FOR IN THE LAGOON RESTORATION PLAN. THIS DRAWING IS RELEASED FOR CONSTRUCTION

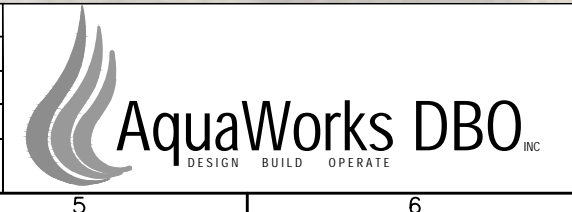
**STEP VII**  
 PRIOR TO COMPLETION, CONTRACTOR TO PROVIDE OWNER RECORDS OF ALL THE PERMITS, TESTING RESULTS, AND CONSTRUCTION LOGS. CONTRACTOR TO CERTIFY THAT PROJECT WAS COMPLETED AS SPECIFIED AND CONFORMS TO APPLICABLE LAWS, RULES, AND REGULATIONS.

**NOTE:**  
 (PONDS SHALL DRAIN 72 HOURS AND NO LONGER HOLD WATER. CONTRACTOR TO RE-SEED POND AFTER DECOMMISSIONING IS COMPLETE.)



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 ENGINEER: AQUAWORKS DBO, INC.  
 3252 WILLIAMS STREET  
 DENVER, COLORADO 80205  
 (303) 477-5915

SHEET TITLE:  
 LAGOONS CLOSURE PLAN  
 PROJECT NUMBER: #3774  
 SCALE: 1"=100'  
 SHEET: C11

- GRADING NOTES:**
1. TOPSOIL WITHIN THE DESIGNATED PROJECT LIMITS OF DISTURBANCE SHALL BE SALVAGED PRIOR TO BEGINNING OF HAULING, EXCAVATING, OR FILL OPERATIONS.
  2. TOPSOIL SHALL BE REPLACED TO DISTURBED AREAS AND SHALL BE PLACED DIRECTLY UPON COMPLETED CUT AND FILL SLOPES WHENEVER CONDITIONS AND THE PROGRESS OF CONSTRUCTION PERMIT.
  3. CONTRACTOR TO INSTALL FINISH GRADE ACCORDING TO PLAN GRADES, SLOPES, SPOTS, NOTES AND SPECIFICATIONS. PROVIDE A SMOOTH FINISH BY RAKING IN TOPSOILED AREAS. PROVIDE SMOOTH TRANSITIONS AT TOP OF BANKS AND TOE OF SLOPES.
  4. ALL EXCAVATIONS AND EMBANKMENTS SHALL BE FINISHED TO SMOOTH AND UNIFORM SURFACES CONFORMING WITH PLANS AND TYPICAL SECTIONS DETAILED AND SPECIFIED HERE.
  5. WHEN EMBANKMENT IS PLACED ON BOTH SIDES OF A CONCRETE WALL OR BOX TYPE STRUCTURE, THE EMBANKMENT SHALL BE BROUGHT UP EQUALLY ON BOTH SIDES OF THE STRUCTURE UNLESS NOTED OTHERWISE ON THE PLANS.
  6. EMBANKMENT SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED 8 INCHES LOOSE MEASUREMENT AND SHALL BE COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED.
  7. SURFACE WATER SHALL NOT BE ALLOWED TO POND ANYWHERE AND SHALL DRAIN AWAY FROM BUILDINGS AT ALL TIMES. ALL DRAINAGE IS SHOWN DRAINING AWAY FROM BUILDINGS ON THESE PLANS.
- THIS AREA IS WITHIN ZONE OF THE EL PASO FIRM PANEL NUMBER 08041C0285G, EFFECTIVE DATE 12/7/2018. NO PROPOSED CHANGE IN NET FILL ON THIS SITE IS PROPOSED.

**NOTES:**

INFORMATION SHOWN ON THIS SHEET WAS OBTAINED FROM:

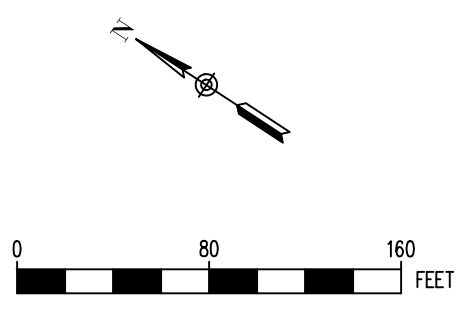
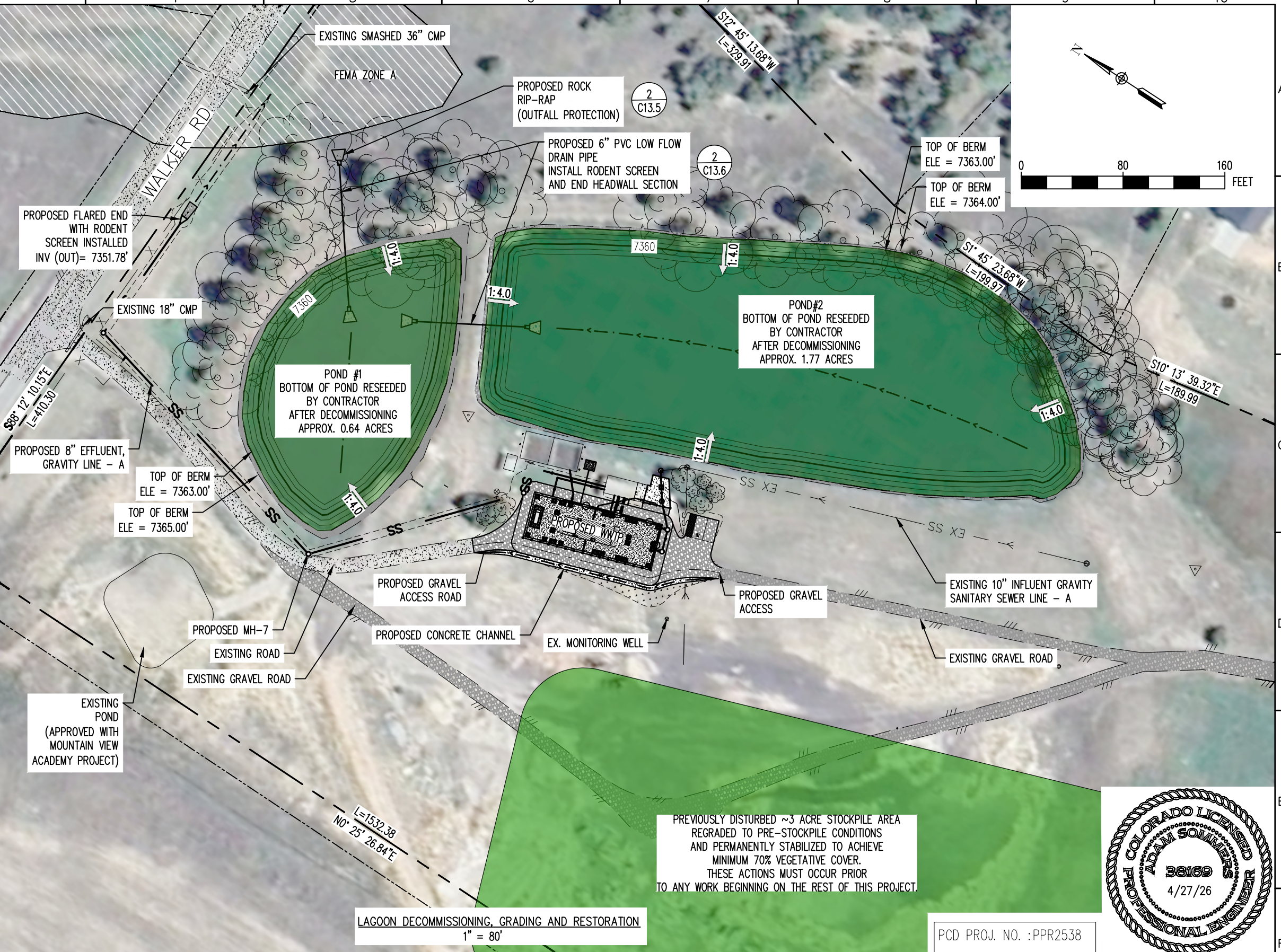
RAMPART SURVEYS LLC, TOPOGRAPHIC MAP – WALDEN WASTEWATER TREATMENT FACILITY NE1/4 SEC. 15, T11S, R66W OF THE 6TH P.M., EL PASO COUNTY. CO. JOB NO. : 19249 AUGUST 19. 2019.

- RESTORATION SEEDING SPECIFICATIONS:**
- REFER TO PROJECT SPECIFICATION MANUAL SECTION 32 92 00 FOR THE FOLLOWING ITEMS:
1. SOIL ANALYSIS
  2. SEED AND MULCH SUBMITTALS
  3. SITE PREPARATION AND PROTECTION
  4. SOIL PREPARATION
  5. SEEDING AND MULCHING
  6. WARRANTY AND CONDITIONS

**NOTE:**

AFTER BIOSOLIDS ARE EXCAVATED FROM PONDS #1 AND #2 AND STOCKPILED ON SITE, THE TWO PROPOSED 6" PVC LOW FLOW DRAIN PIPES SHALL BE INSTALLED WITH CAPS ON AND NOT BE PULLED OFF UNTIL PONDS ARE COMPLETELY REVEGETATED.

CONTRACTOR SHALL APPLY REVEGETATION MEASURES ON TOP OF THE BIOSOLIDS AS CALLED FOR IN THE LAGOON RESTORATION PLAN SHEET C11.



PREVIOUSLY DISTURBED ~3 ACRE STOCKPILE AREA REGRADED TO PRE-STOCKPILE CONDITIONS AND PERMANENTLY STABILIZED TO ACHIEVE MINIMUM 70% VEGETATIVE COVER. THESE ACTIONS MUST OCCUR PRIOR TO ANY WORK BEGINNING ON THE REST OF THIS PROJECT.

**LAGOON DECOMMISSIONING, GRADING AND RESTORATION**  
1" = 80'

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 3252 WILLIAMS STREET  
 DENVER, COLORADO 80205  
 (303) 477-5915

SHEET TITLE:  
LAGOON DECOMMISSIONING, GRADING AND RESTORATION

PROJECT NUMBER: #3774	SCALE: 1" = 80'	SHEET: C12
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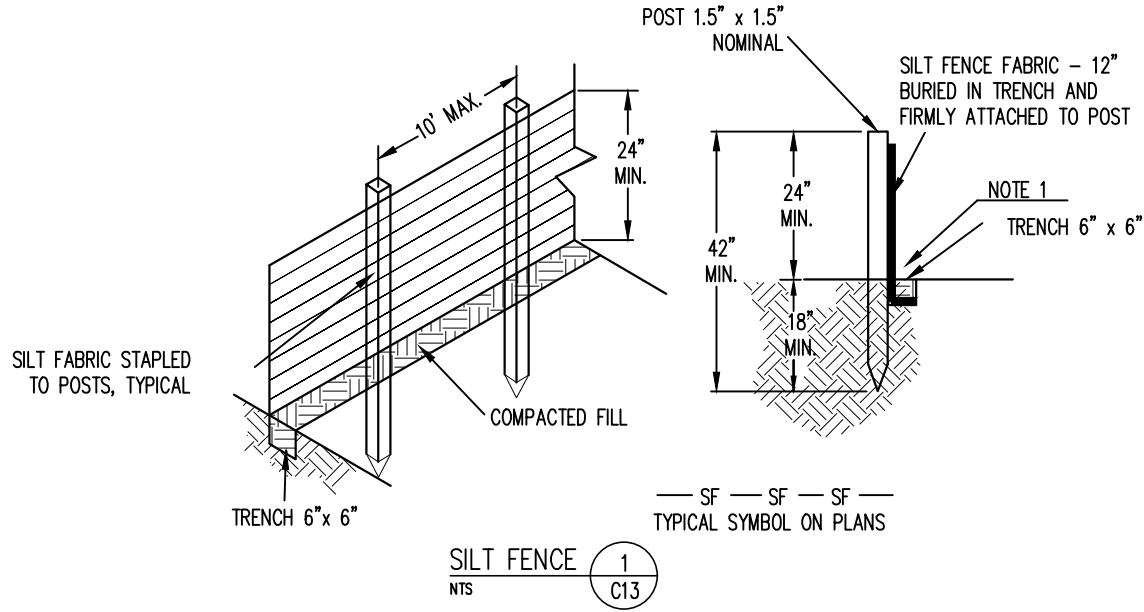
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**EROSION CONTROL SPECIFICATIONS:**

**NOMINAL DIMENSIONS OF EROSION LOGS:**

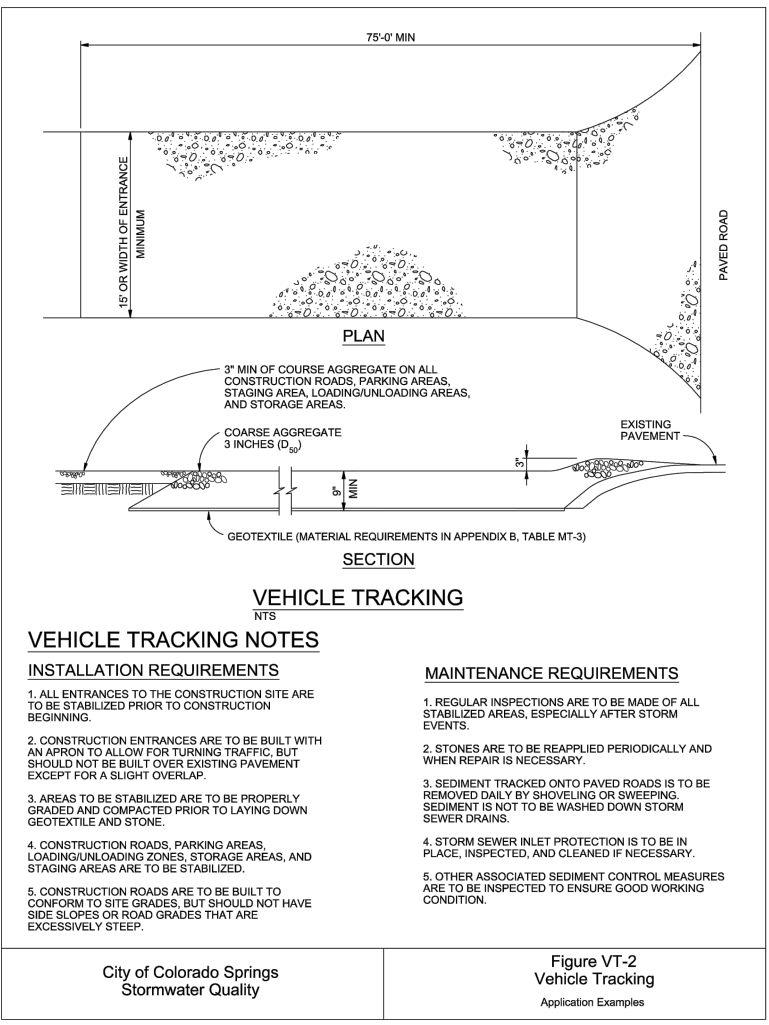
DIAMETER	LENGTH	WEIGHT	STAKE DIMENSIONS
12 INCH	7-10 FEET	2.5 LBS/FOOT	1.5X1.5X24 INCHES

**GEOTEXTILE FOR SILT FENCE:**

PROPERTY	SPECIFICATION	TEST METHOD
GRAB STRENGTH, N (LBS)	400 (90)	ASTM D 4632
ELONGATION, % MIN	50 MAXIMUM	ASTM D 4632
APPARENT OPENING SIZE	0.84 MAXIMUM	ASTM D 4751
ULTRAVIOLET DEGRADATION	70% STRENGTH RETAINED (AT 500 HOURS)	ASTM D 4355
PERMEABILITY S-1	0.01 MINIMUM	ASTM D 4491

**EROSION CONTROL DETAIL NOTES:**

- CONTRACTOR TO REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 25% OF PROTECTION FEATURE HEIGHT. CONTRACTOR SHALL PERFORM CONTINUOUS INSPECTION FOR PROPER FUNCTION.
- SILT FENCE POSTS SHALL BE METAL OR WOOD WITH A MINIMUM LENGTH OF 42 INCHES. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION OF 1.5 INCHES. SILT FENCE GEOTEXTILE SHALL BE ATTACHED TO POSTS WITH THREE OR MORE STAPLES PER POST.
- SILT FENCE SHALL BE INSTALLED IN LOCATIONS SPECIFIED IN THE PLANS PRIOR TO ANY GRUBBING OR GRADING ACTIVITY. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT ACCUMULATES 25% OF THE EXPOSED GEOTEXTILE HEIGHT AND SHALL BE DISPOSED OF.
- EROSION LOGS: EROSION LOGS SHALL BE CURLED ASPEN WOOD EXCELSIOR WITH A CONSISTENT WIDTH OF FIBERS EVENLY DISTRIBUTED THROUGHOUT THE LOG. THE CASING SHALL BE SEAMLESS, PHOTODEGRADABLE TUBE NETTING AND SHALL HAVE MINIMUM DIMENSIONS AS SHOWN BELOW. THE CURLED ASPEN WOOD EXCELSIOR SHALL BE FUNGUS FREE, RESIN FREE AND SHALL BE FREE OF GROWTH OR GERMINATION INHIBITING SUBSTANCES. STAKES TO SECURE EROSION LOGS SHALL CONSIST OF PINWOOD OR HARDWOOD. THE CONTRACTOR SHALL MAINTAIN THE EROSION LOGS DURING CONSTRUCTION TO PREVENT SEDIMENT FROM PASSING OVER OR UNDER THE LOGS OR FROM SEDIMENT ACCUMULATION GREATER THAN 25% OF THE ORIGINAL EXPOSED HEIGHT OF EACH EROSION LOG. STAKES SHALL BE EMBEDDED A MINIMUM OF DEPTH OF 4 INCHES.



**VEHICLE TRACKING NOTES**

**INSTALLATION REQUIREMENTS**

- ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.
- CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.
- AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
- CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
- CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.

**MAINTENANCE REQUIREMENTS**

- REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
- STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
- SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
- STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
- OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.

City of Colorado Springs  
Stormwater Quality

Figure VT-2  
Vehicle Tracking  
Application Examples

3-54

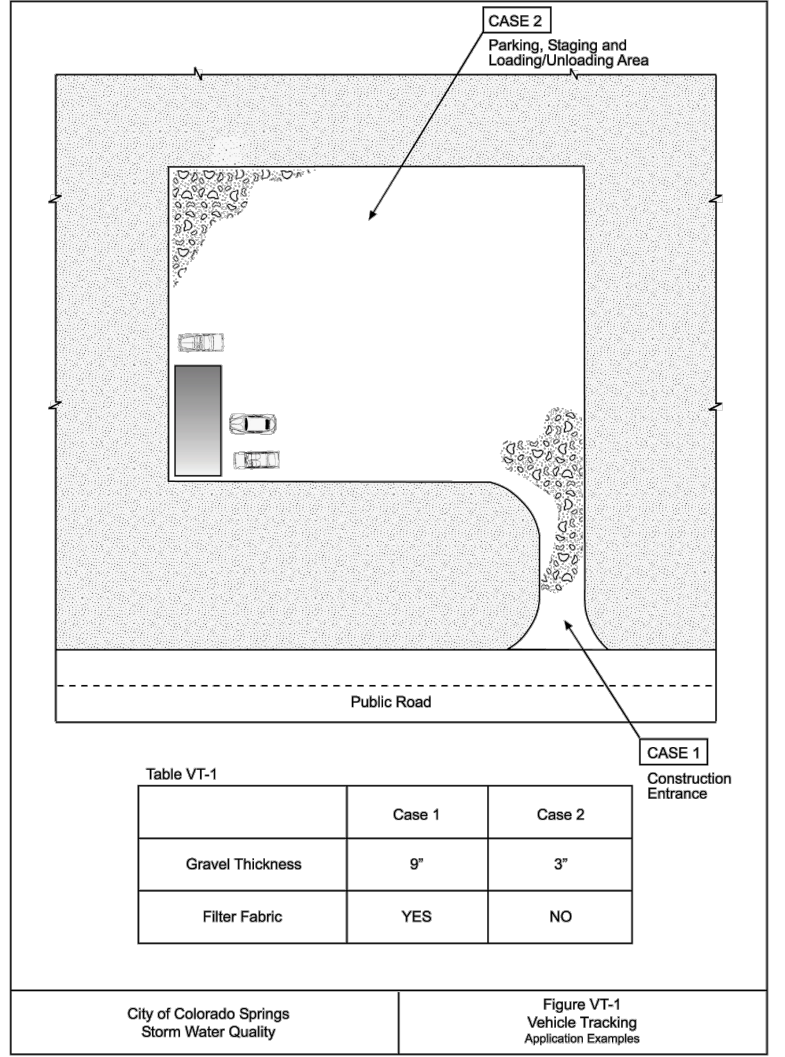


Table VT-1

	Case 1	Case 2
Gravel Thickness	9"	3"
Filter Fabric	YES	NO

City of Colorado Springs  
Storm Water Quality

Figure VT-1  
Vehicle Tracking  
Application Examples

3-53

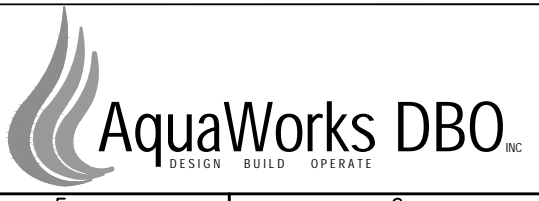
**VEHICLE TRACKING/ STABILIZED ENTRANCE ROAD**

NTS

2  
C13

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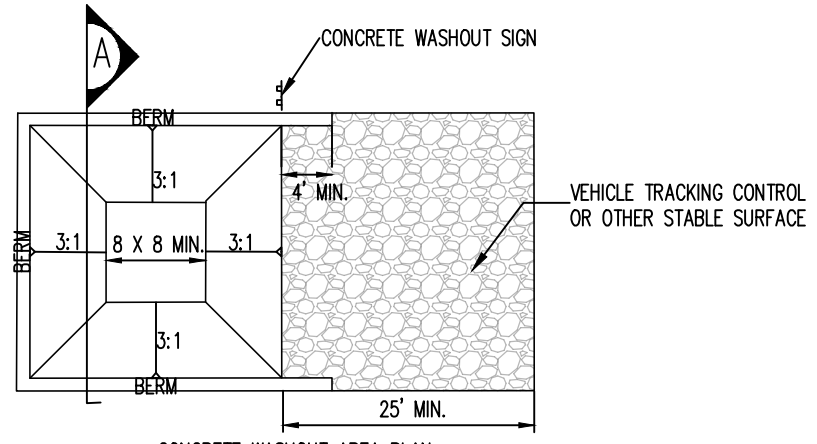
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SHEET TITLE: EROSION CONTROL DETAILS I		
PROJECT NUMBER: #3774	SCALE: N.T.S.	SHEET: C13

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CONCRETE WASHOUT AREA PLAN

CONCRETE WASHOUT AREA NOTES:

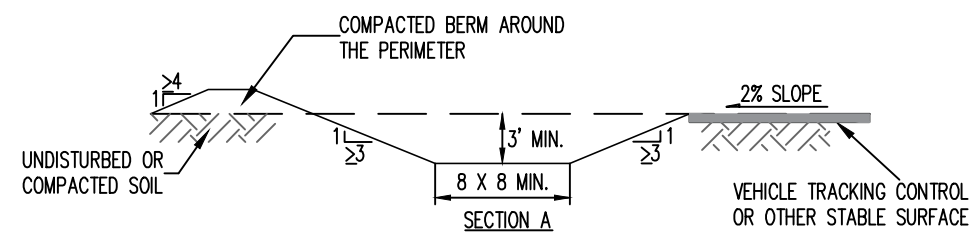
1. SEE PLAN VIEW FOR CWA INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'
6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

EL PASO LOW GROW SEED MIX AND MULCH  
SEED MIX FOR THE FOLLOWING APPLIED BY DRILLING AT  
5.25 LB/0.25 ACRES (10,890 SQUARE FEET)  
OR BY BROADCASTING AT 10.50LB/0.25 ACRES:

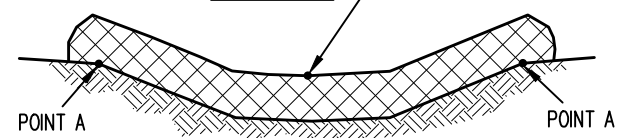
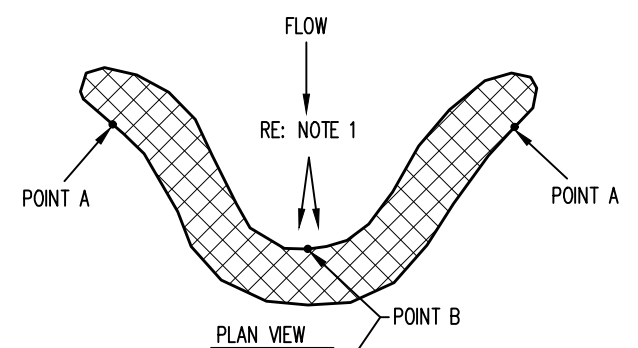
27 %	WESTERN WHEATGRASS
18 %	BLUE GRAMA
15 %	BUFFALO GRASS
13 %	SIDEOATS GRAMA
12 %	SHEEP FESCUE
10 %	GREEN NEEDLEGRASS
5 %	SAND DROPSEED

NOTE: PROVIDE MULCH AND TACKIFIER TO MEET GERMINATION REQUIREMENTS.

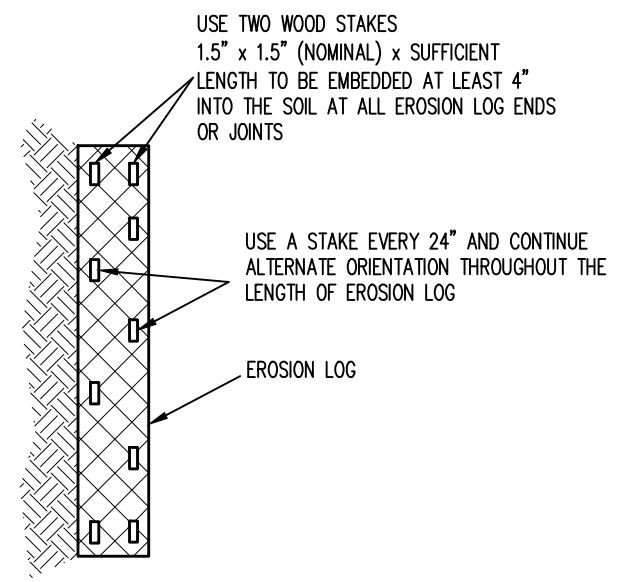
SEED MIX AND MULCH (5)  
NTS C13.2



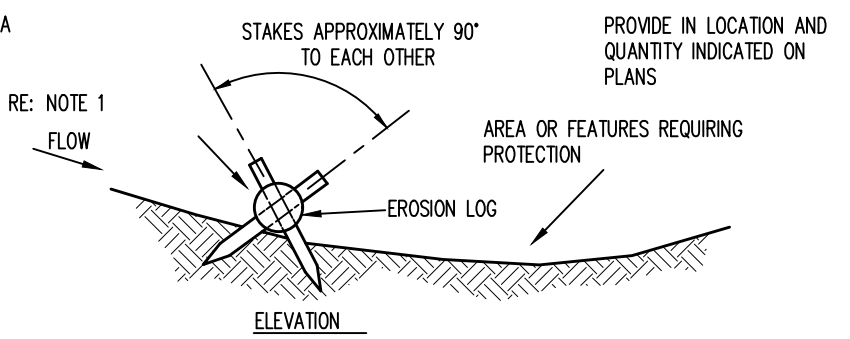
CONCRETE WASHOUT DETAIL



EROSION LOG DITCH INSTALLATION (4)  
NTS C13.2



TYPICAL STAKE INSTALLATION (4B)  
NTS C13.2



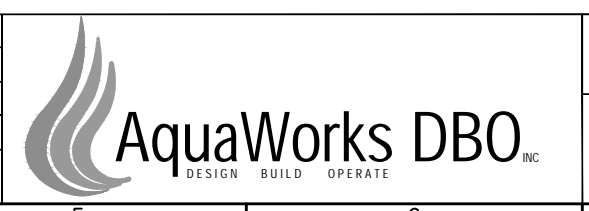
TYPICAL EROSION LOG APPLICATION (4A)  
NTS C13.2



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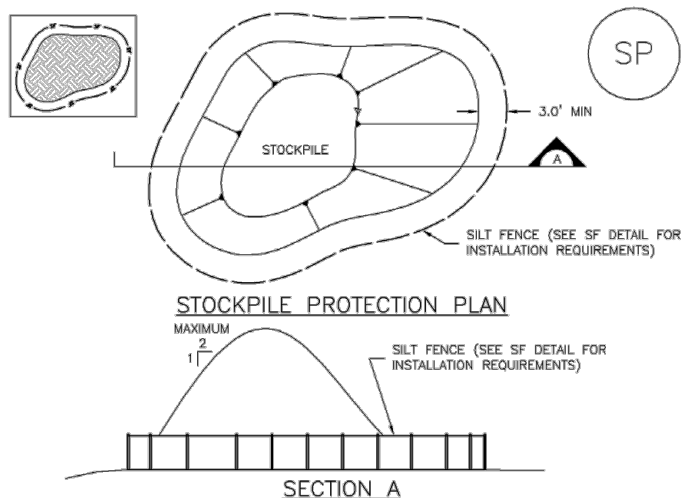
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PROJECT NUMBER: #3774	SCALE: N.T.S.	SHEET: C13.2

**Stockpile Management (SP)**

**MM-2**

**MM-2**

**Stockpile Management (SM)**



**SP-1. STOCKPILE PROTECTION**

**STOCKPILE PROTECTION INSTALLATION NOTES**

- SEE PLAN VIEW FOR:  
-LOCATION OF STOCKPILES.  
-TYPE OF STOCKPILE PROTECTION.
- INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
- STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
- FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADEMENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

**STOCKPILE PROTECTION MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

**STOCKPILE PROTECTION MAINTENANCE NOTES**

- IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
- STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

(DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SP-3 SP-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

**STOCKPILE MANAGEMENT** 6 C13.3 NTS



PCD PROJ. NO. :PPR2538

REV. No:	DATE:	BY:	REVISION DESCRIPTION:	DESIGNED BY: MG		PROJECT: WALDEN CORPORATION WWTP 3155 WALKER ROAD COLORADO SPRINGS EL PASO COUNTY, COLORADO	SHEET TITLE: EROSION CONTROL DETAILS III		
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A

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A

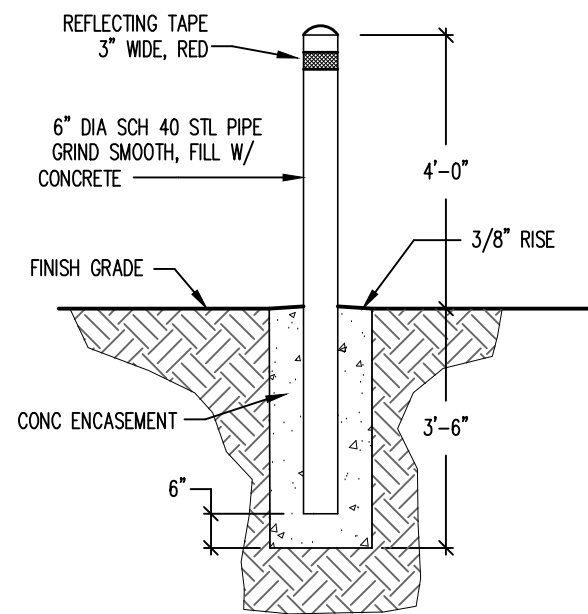
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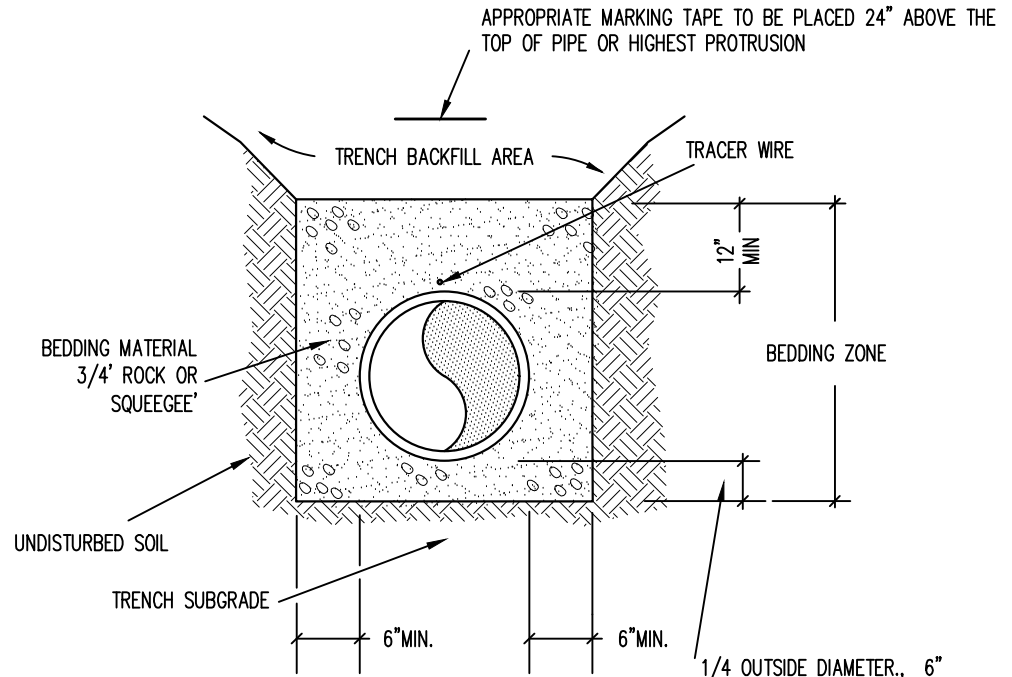
E

F



- NOTES:**
1. PROVIDE SUITABLE SUBGRADE FOR STABLE INSTALLATION.
  2. ENCASE BOLLARD IN A MINIMUM OF 18" DIAMETER OF CONCRETE TO 3'-6" BELOW GRADE.
  3. FILL PIPE WITH CONCRETE AND PROVIDE CLEAN CAP FOR TOP OF PIPE.
  4. CONCRETE: CONCRETE MIX SHALL YIELD A COMPRESSIVE STRENGTH OF NOT LESS THAN 4,000 PSI AFTER 28 DAYS. MINIMUM UNCOVERED CURING TIME TO BE 36 HOURS.
  5. PROVIDE 7' LONG STEEL PIPE.
  6. BOLLARD TO BE COATED WITH PRIMER PRIOR TO INSTALLATION.
  7. PAINT OUTSIDE OF PIPE WITH RUST-RESISTANT SAFETY YELLOW PAINT.

BOLLARD 1  
NTS C13.4




- NOTES:**
1. PIPE SHALL BE BEDDED FROM 6" BELOW THE BOTTOM OF THE PIPE TO 12" ABOVE THE TOP OF THE PIPE.
  2. SHOULD THE TRENCH BE EXCAVATED WIDER THAN ALLOWED, A CONCRETE CRADLE SHALL BE PLACED WITH 2500 P.S.I. CONCRETE FROM TRENCH BOTTOM TO PIPE SPRINGLINE.
  3. COMPACTION SHALL BE AS FOLLOWS: PIPE ZONE BEDDING 6" UNDER AND 12" OVER PIPE WILL REQUIRE 90% S.P.D. TRENCH ZONE ABOVE BEDDING MATERIALS, FULL TRENCH SECTION IN ROADWAY OR STREET R.O.W. LIMITS WILL REQUIRE 95% S.P.D. TRENCH ZONE ABOVE BEDDING MATERIALS, OUTSIDE OF STREET R.O.W. WILL REQUIRE 90% S.P.D. LIFTS SHALL NOT EXCEED 6". COMPACTION TESTING SHALL BE EVERY FOOT OR PER EL PASO COUNTY REQUIREMENTS.
  4. USE ONLY BACKFILL FOR TRENCHES WHICH IS FREE FROM ROCKS, LARGE ROOTS, OTHER VEGETATION OR ORGANIC MATTER, AND FROZEN MATERIAL. NO ROCKS GREATER THAN TWELVE (12) INCHES IN DIAMETER SHALL BE ALLOWED.

PIPE INSTALLATION DETAIL 2  
NTS C13.4

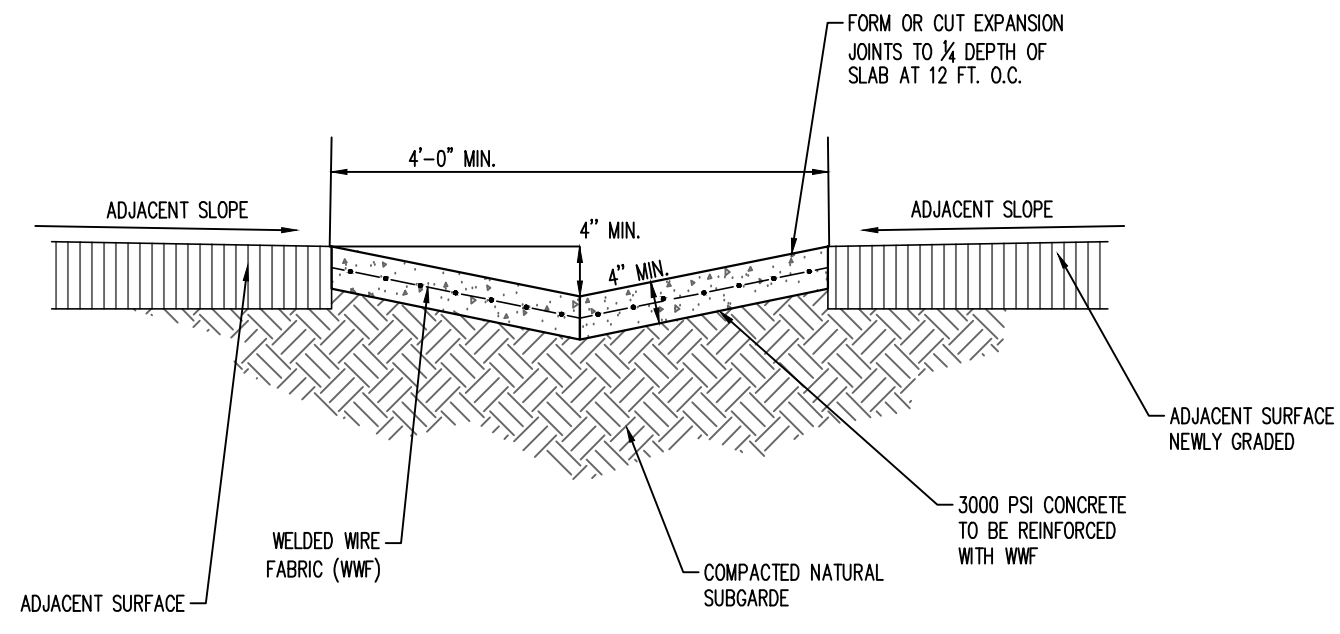
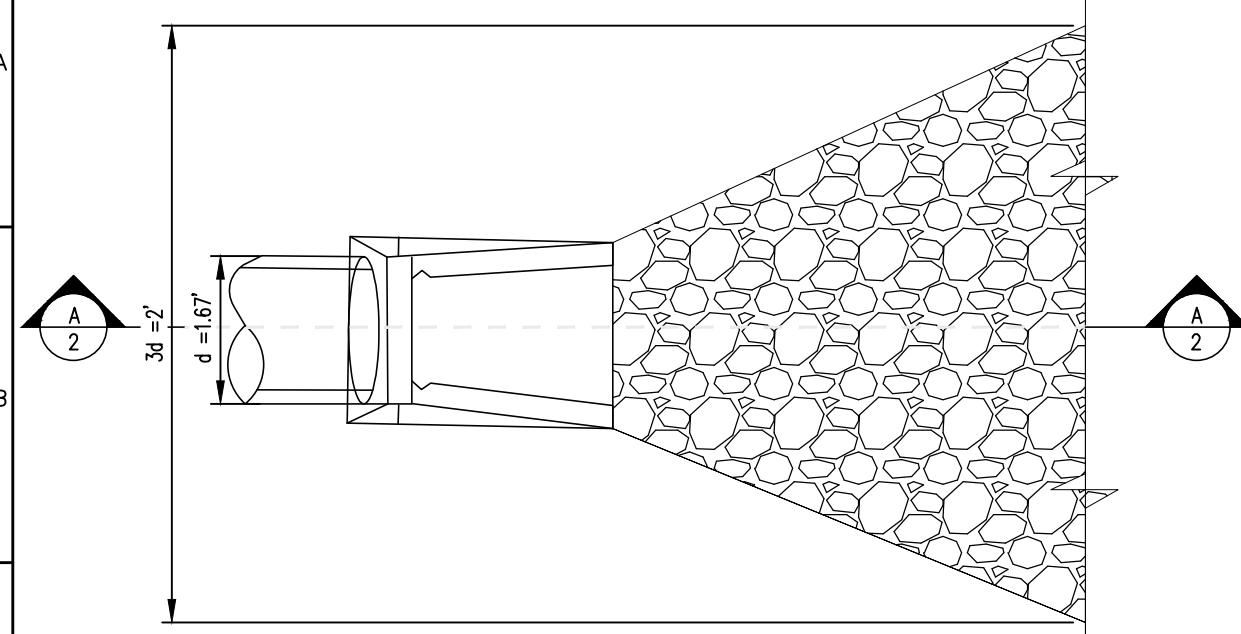
1/4 OUTSIDE DIAMETER, 6" MIN. FOR 3/4" TYPE "K" A MINIMUM OF 4" DEPTH OF BEDDING MAY BE USED.



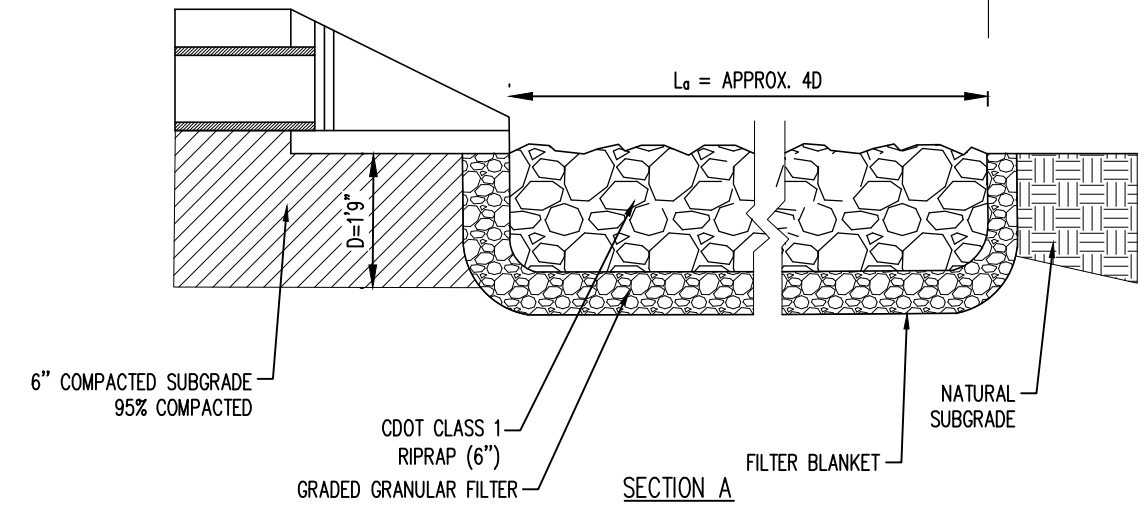
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PIPE OUTLET TO SURFACE WATER  
OVERFALL PLAN VIEW

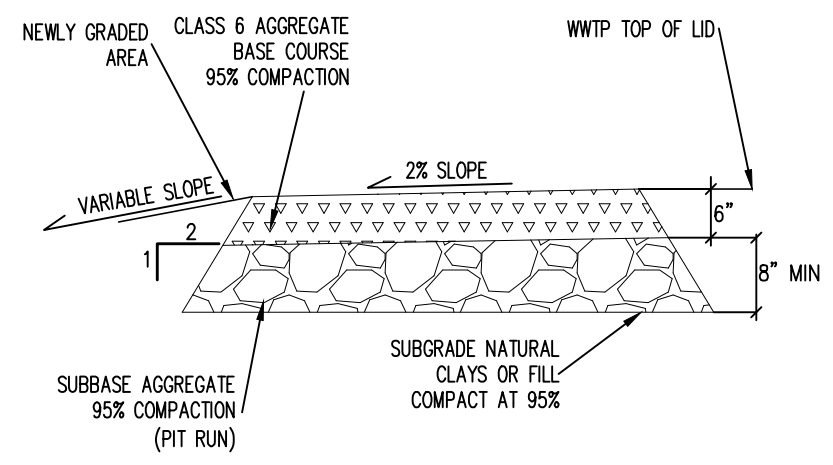


CONCRETE CHANNEL DETAIL <sup>2</sup>  
N.T.S. C13.5

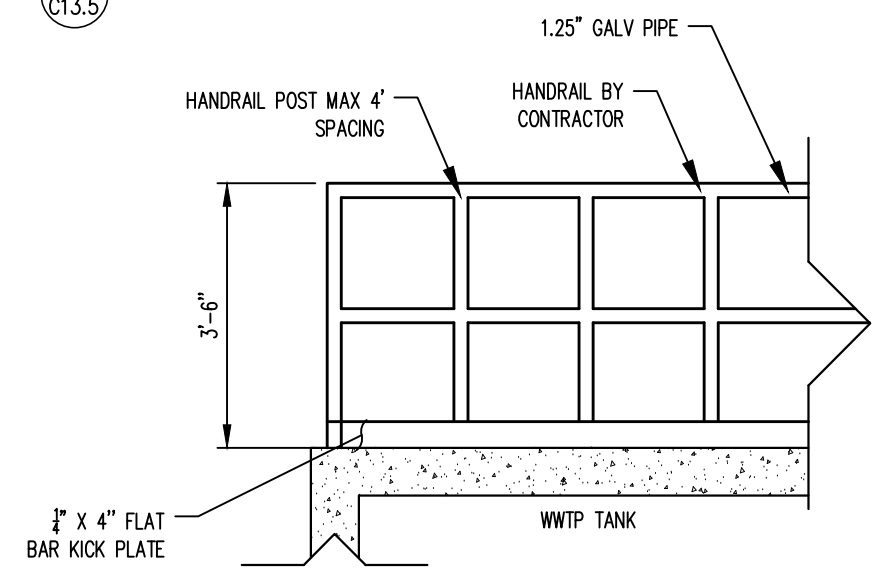


NOTES:

1.  $L_a$  IS THE LENGTH OF THE RIPRAP APRON.
2.  $D=1.5$  TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. A FILTER BLANKET OF FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
4. REQUIRED AVERAGE SIZE OF RIPRAP STONE (FT),  $D_{50} = 6"$



GRAVEL DRIVEWAY SECTION DETAIL <sup>3</sup>  
N.T.S. C13.5

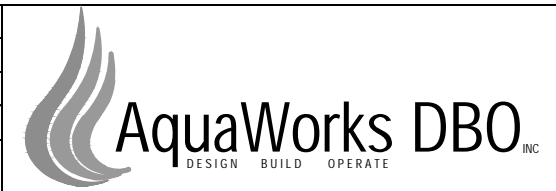


GUARD RAIL <sup>4</sup>  
N.T.S. C13.5

PROPOSED RIPRAP W/SOIL AND GRASS OR GROUND COVER <sup>1</sup>  
N.T.S. C13.5

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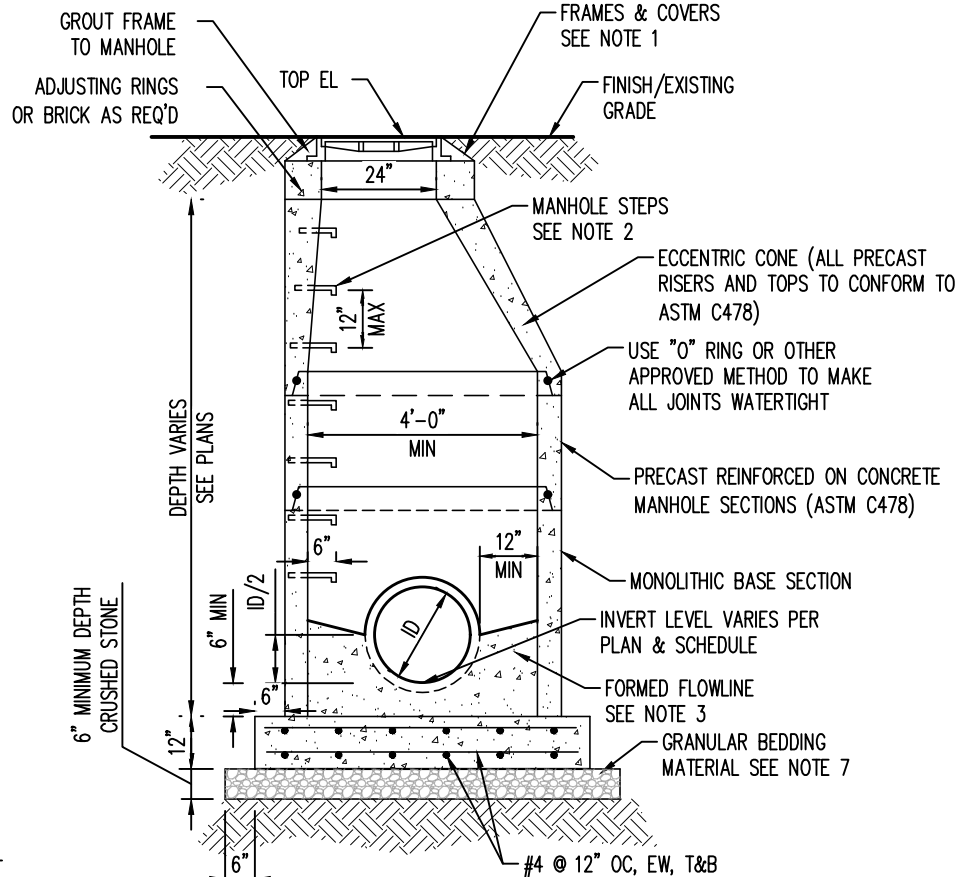


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 3155 WALKER ROAD COLORADO SPRINGS  
 EL PASO COUNTY, COLORADO  
 ENGINEER: AQUAWORKS DBO, INC.  
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 (303) 477-5915

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 CIVIL DETAILS II  
 PROJECT NUMBER: #3774  
 SCALE: N.T.S.  
 SHEET: C13.5

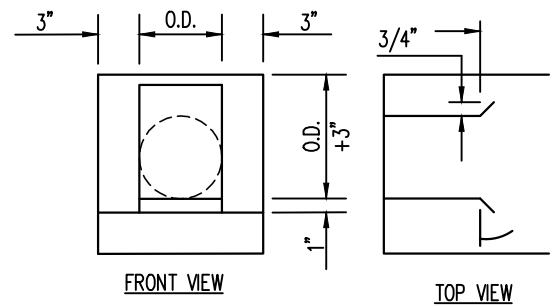
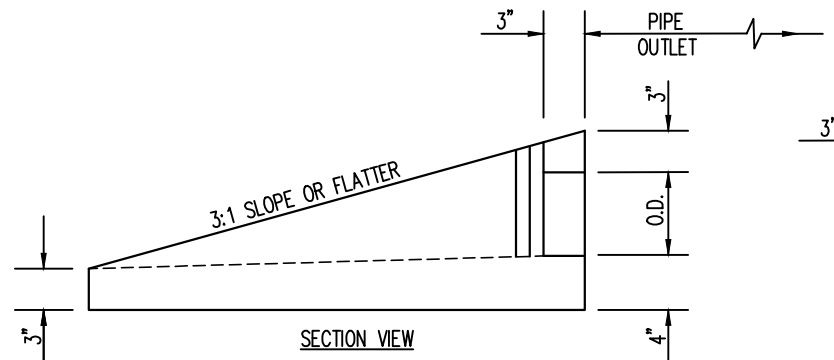
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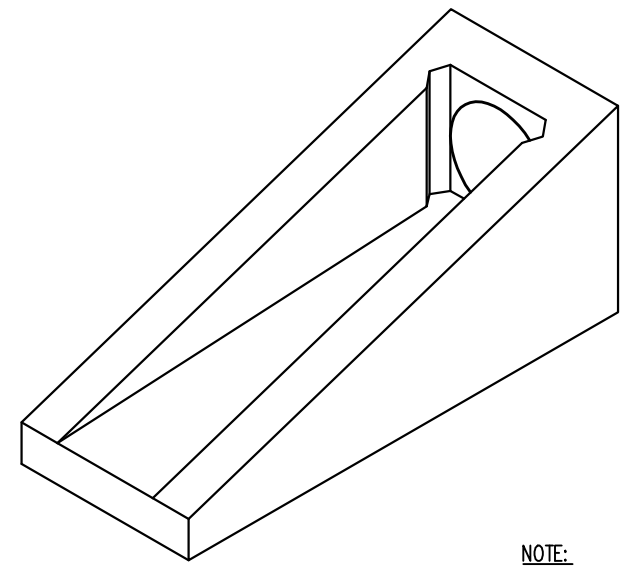


- NOTES**
- SANITARY MANHOLE COVERS SHALL HAVE "SANITARY SEWER" CAST ON THE COVER AND SHALL BE NEENAH R-1688 OR ENGINEER APPROVED EQUIVALENT. STORM MANHOLE COVERS SHALL HAVE "STORM SEWER" CAST ON THE COVER AND SHALL BE NEENAH R-1678 OR ENGINEER APPROVED EQUIVALENT.
  - MANHOLE STEPS TO BE M.A. INDUSTRIES 004-501-DF OR ENGINEER APPROVED EQUIVALENT. PROVIDED TO WITHIN 12" OF TOP OF CONE.
  - FLOWLINE OF MANHOLE MAY BE FORMED IN CONCRETE; BUILT UP WITH MORTAR; OR BY LAYING A PIPE THROUGH MANHOLE, THE TOP BEING BROKEN OUT LATER.
  - GROUT ANNULAR SPACE BETWEEN WALL AND PIPE WITH NON-SHRINK MORTAR TO INSURE WATERTIGHT SEAL.
  - ALL CONCRETE TO COMPLY WITH ACI 318 AND SHALL BE A MINIMUM STRENGTH OF 3000 PSI AT 28 DAY TEST.
  - ALL MANHOLES AND SPECIAL STRUCTURES TO BE PLACED ON SUITABLE SUBGRADE MATERIAL. IF SUBGRADE CONDITIONS WARRANT, UNSUITABLE FOUNDATION MATERIAL WILL BE OVEREXCAVATED, AND SELECT SUBGRADE MATERIAL WILL BE PLACED AS PER SECTION 5.00 OF THE WCPM STANDARD CONSTRUCTION SPECIFICATIONS.
  - GRANULAR BEDDING MATERIAL SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY IN ACCORDANCE WITH AASHTO T-180.

CONCRETE MANHOLE DETAIL 1  
N.T.S. C13.6

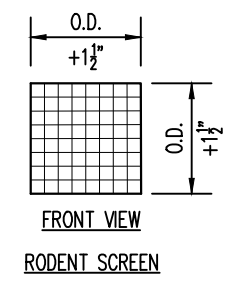


SLOTTED HEADWALL DETAIL



ISOMETRIC VIEW

PIPE OUTLET



FRONT VIEW

RODENT SCREEN

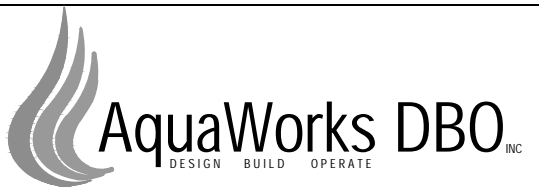
- NOTE:**
- THE PIPE SHALL BE LOCATED AS SHOWN ON THE TYPICAL SECTIONS OF THE CONSTRUCTION PLANS.
  - SLOPE OF THE PIPE SHALL MATCH ROADWAY GRADE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  - OUTLET PIPE CONFIGURATIONS SHALL USE 45 DEGREE ELBOWS OR SHALL USE STRAIGHT PIPE WITH A MINIMUM RADIUS OF 3' TO DIRECT PIPE INTO SIDE OF DRAINAGE INLET OR TO POSITIVE GRADE. PIPE SHALL ALSO BE NON-PERFORATED AND HAVE A SMOOTH INTERIOR.
  - RODENT SCREEN SHALL SNUGLY FIT THE PROVIDED SLOT WITH THE SCREEN LIP FITTING TIGHT TO THE BOTTOM FLOW LINE.
  - A DELINEATOR SHALL BE INSTALLED ADJACENT TO THE CONCRETE APRON OF THE PIPE OUTFALL IN THE UPSTREAM DIRECTION OF VEHICULAR TRAVEL. THE DELINEATOR SHALL BE GALVANIZED TELESCOPING STEEL SIGN POST. THE DELINEATOR SHALL EXTEND 4' ABOVE GROUND ELEVATION AND SHALL HAVE A 4"x8"x0.08" ALUMINUM RETROREFLECTIVE BLUE REFLECTOR BOLTED TO BOTH SIDES OF THE POST WITH HARDWARE COMPATIBLE WITH THE SIGN POST.
  - WHEN TWO LINES OF PIPE DRAIN TO A LOW POINT, EACH PIPE MUST HAVE ITS OWN OUTLET.
  - PIPE SHALL NOT BE PLACED UNDER GUARDRAIL IN ORDER TO AVOID PUNCTURING.

OVERFLOW OUTLET DETAIL 2  
N.T.S. C13.6



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