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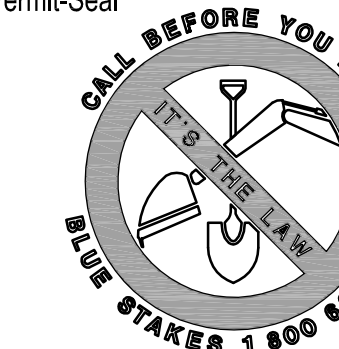
Legend

Notes

Revision	By	Appd.	YY.MM.DD
2	BID ISSUE	PMD	JRB 04.02.09
1	70% REVIEW	PMD	JRB 03.12.29
Issued		By Appd.	YY.MM.DD

File Name:	PMD	JRB	PMD	02.10.30
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Permit-Seal



Client/Project

KENNECOTT LAND COMPANY
 DAYBREAK DEVELOPMENT

SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES

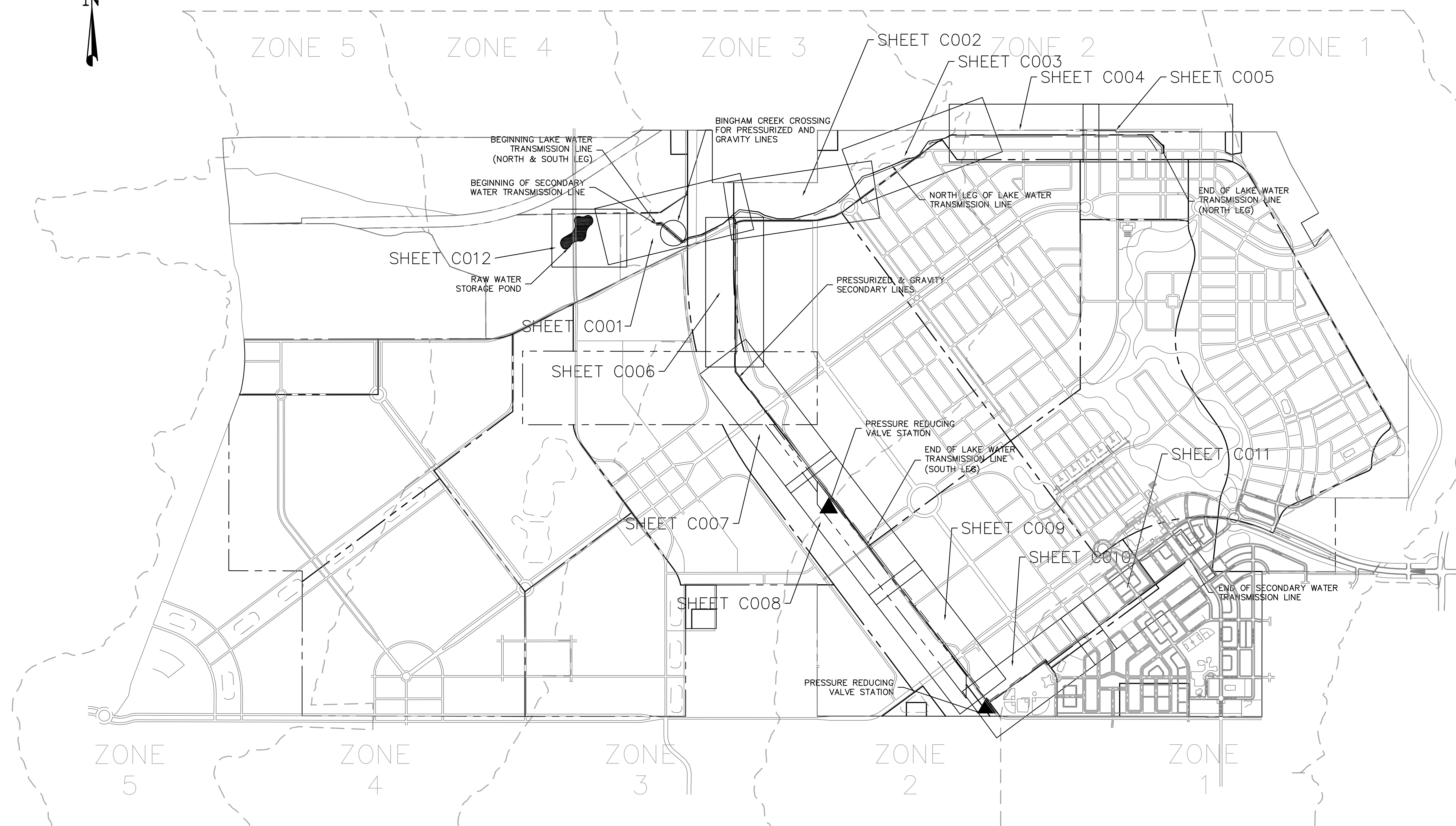
SOUTH JORDAN CITY, UT

Title

SECONDARY WATER LINE
 SHEET LAYOUT

Project No.	Scale
86203003	NONE

Drawing No.	Sheet	Revision
G001	2	of 28



V:\G001.DWG 10/20/09 10:42:29 AM KLD Source Phase 1 Off-Site (Dwg's\Sheets)\Secondary Water\G001.dwg
 2009-10-20 10:42:29 AM KLD Source Phase 1 Off-Site (Dwg's\Sheets)\Secondary Water\G001.dwg
 ORIGINAL SHEET - ANSI D

Notes

xr shall be responsible for contacting blue stakes 48 to excavating.

xr shall be responsible for flagging, caution signs and / on all adjacent streets, construction site, and crossings.

xr shall be responsible for public safety and osha/msha rds.

xr shall be responsible for care of all construction

xr shall strip, stockpile, protect, and save all topsoil.

xr shall be responsible to reseed all disturbed areas i seed mix.

shall be compacted to average 96% Modified Proctor according to AASHTO T-180.

xr shall be responsible for all erosion control and : measures.

9. Contractor shall install environmental fence above and adjacent to all disturbed areas.

10. Contractor shall install slit fence below all disturbed areas.

11. Contractor shall slope all excavations to an angle of repose of material being excavated or use bracing or shoring. Contractor shall be responsible for compliance with OSHA/MSHA Regulations and guidelines.

12. All new secondary irrigation water lines shall be SDR 11.0 HDPE with a purple indicator stripe. All lake water transmission lines shall be SDR 21.0 HDPE. All new water lines to have 4 purple stripes extruded in the OD.

13. It is intended that these plans and specifications require all labor and materials necessary and proper for the work contemplated and that the work be completed in accordance with their true intent and purpose. The contractor shall notify the Engineer immediately regarding any discrepancies or ambiguities which may exist in the plans or specifications. The Engineer's interpretation thereof shall be conclusive.

14. Where the plans or specifications describe portions of the work in general terms but not in complete detail, it is understood that only the best general practice is to prevail and that only materials and workmanship of the first quality are to be used.

15. The contractor shall be skilled and regularly engaged in the general class and type of work called for in the project plans and specifications. Therefore, the owner is relying upon the experience and expertise of the contractor. It shall be expected that prices provided within the contract documents shall include all labor and materials necessary and proper for the work contemplated and that the work be completed in accordance with their true intent and purpose.

The contractor shall be competent, knowledgeable and have special skills on the nature, extent and inherent conditions of the work to be performed. Contractor shall also acknowledge that there are certain peculiar and inherent conditions exists in the construction of the particular facilities, which may create, during the construction program, unusual or peculiar unsafe conditions hazardous to persons, property and the environment. Contractor shall be aware of such peculiar risks and have the skill and experience to foresee and to adopt protective measures to adequately and safely perform the construction work with respect to such hazards.

16. Contractor shall inspect the site of the work prior to bidding to satisfy themselves by personal examination or by other such means as they may prefer, of the location of the proposed work, and of the actual conditions of and at the site of work.

If, during the course of their examination, a bidder finds facts or conditions which appear to them to be in conflict with the letter or spirit of the project plans and specifications, they shall contact the Engineer for additional information and explanation before submitting their bid.

17. The contractor shall provide all lights, barricades, signs, flagmen or other devices necessary for public safety.

18. The contractor shall provide all lights, barricades, signs, flagmen or other devices necessary for public safety.

19. The contractor shall provide barricades, signs, flashers, other equipment and flag persons necessary to insure the safety of workers and visitors.

20. The contractor shall be responsible for notifying Utah Transit Authority (UTA) if the construction interrupts or relocates a bus stop or has an adverse effect on bus service on that street to arrange for temporary relocation of stop.

1.3 City of South Jordan Streetlight Notes

1. No deviation of street light, pull box, conduits (etc.) locations shall be permitted without written approval of the City Engineering Department. Any deviation from the plan location will require written notice from the Engineering Department.

2. All existing street lighting shall remain operational during construction.

3. All empty conduit shall have pull strings installed prior to final inspection.

4. All streetlights shall be 120 V ONLY.

5. Any structure such as block walls, chain link fences, retaining walls, etc., shall leave a minimum clearance of eighteen inches (18") to the face of street lighting pole on all sides when streetlight is installed behind sidewalk, and shall at no time completely enclose the street lighting pole.

6. Detailed As-built drawings shall be submitted to South Jordan City prior to any pre-final inspection. The as-built drawing needs to be stamped as "built and signed by the preparer.

7. Service point shall be coordinated with Utah Power and Light, and wherever possible, be located near the center of the circuit. Service points shall be shown on the plans.

8. It shall be assumed that in the absence of an existing, workable circuit to attach to, all installations shall require a new service for operation of the circuit. In this case contact Utah Power and Light.

9. Wherever there is an overhead utility that may conflict with the installation of street lighting circuits and/or poles, these conflicts must be resolved between the developer and the utilities involved before streetlight bases are installed at no expense to the City of South Jordan and UPL.

10. The Contractor shall furnish complete service to transformers and control systems if required on plans, and is deemed necessary by UPL.

11. Install street light to SJC Design Standards with Tracer Wire.

12. Street light wiring shall be installed a maximum of 8" from the top back of curb and buried 18" deep.

13. Street light plan showing wiring location, wiring type, voltage, power source location and conductor size and location. Plan shall be submitted to the City for review at least 10 days prior to installation of streetlights.

1.4 City of South Jordan Grading Notes

1. In the event that any unforeseen conditions not covered by these notes are encountered during grading operations, the Owner and City Engineer shall be immediately notified for direction.

2. It shall be the responsibility of the Contractor to perform all necessary cuts and fills within the limits of this project and the related off-site work, so as to generate the desired subgrade, finish grades and slopes shown.

3. Contractor shall take full responsibility for all excavation. Adequate shoring shall be designed and provided by the Contractor to prevent undermining of any adjacent features or facilities and/or caving of the excavation.

4. The Contractor is warned that an earthwork balance was not necessarily the intent of this project. Any additional material required or leftover material following earthwork operations becomes the responsibility of the Contractor.

5. The Grading Contractor is responsible to coordinate with the owner to provide for the requirements of the project Storm Water Pollution Prevention Plan (SWPPP) and associated permit. All contractor activities on 1 acre or more are required to provide a Storm Water Pollution Prevention Plan.

6. Contractor shall grade to the lines and elevations shown on the plans within the following horizontal and vertical tolerances and degrees of compaction, in the areas indicated:

A. Pavement Area Subgrade 0.1" to +0.0" to +0.1" See soils report
B. Engineered Fill 0.5" +0.1" to -0.1" See Soils Report
Compaction Testing will be performed by the developer or his representative.

7. All cut and fill slopes shall be protected until effective erosion control has been established

8. The use of potable water without a special permit for building or construction purposes including consolidation of backfill or dust control is prohibited. The Contractor shall obtain all necessary permits for construction water from the Public Services Department.

9. The Contractor shall maintain the streets, sidewalks and all other public right-of-way in a clean, safe and usable condition. All spills of soil, rock or construction debris shall be promptly removed from the publicly owned property during construction and upon completion of the project. All adjacent property, private or public shall be maintained in a clean, safe and usable condition.

10. In the event that any temporary construction items is required that is not shown on these drawings, the Developer agrees to provide and install such item at his own expense and at the direction of the City Engineer. Temporary construction includes ditches, berms, road signs and barricades, etc.

1.5 City of South Jordan Fire Department Notes

1. The standard hydrant for South Jordan City is the Mueller A-423 Centurion with auxiliary valve

2. Fire hydrants and auxiliary valves shall be separated by an 18 inch spool piece.

18. The contractor shall be responsible to provide all water, power, sanitary facilities and telephone services as required for the contractors use during construction.

19. The contractor shall be held responsible for any field changes made without authorization from the owner and/or engineer.

20. The contractor agrees that:

A. They shall be responsible to clean the job site at the end of each phase of work.
B. They shall be responsible to remove and dispose of all trash, scrap and unused material at their own expense in a timely manner.

C. They shall be responsible to maintain the site in a neat, safe and orderly manner at all times.
D. They shall be responsible to keep materials, equipment, and trash out of the way of other contractors so as not to delay the job. Failure to do so will result in a deduction for the cost of clean up from the final payment.

21. The contractor shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property. This requirement shall apply continuously and not be limited to normal working hours. The contractor shall defend, indemnify and hold the owner and engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

22. If additional area is need for staging or stockpiling of material, the contractor shall coordinate with the engineer for an agreed upon site.

23. On any new home or building installation, accessible fire hydrants shall be installed before workable construction commences and said fire hydrants shall be in good operating order with an adequate water supply.

24. Contractor shall call the Public Services Department and Engineering Department to inspect and verify the pressure and flush verification of all fire hydrants and fire lines before back filling.

25. Painting of the curbs and hydrant and any work necessary for protection of hydrants from physical damage shall be completed before approval.

26. A flow test must be witnessed by the Fire Department prior to occupancy for verification of required on-site water supply.

27. All on-site fire main materials must be U.L. listed and A.W.W.A. approved.

28. Maximum Fire Hydrant Spacing is 500 feet for Residential streets and 400 feet for Commercial areas, including multi-family. Fire Hydrant spacing is reduced by 50 feet on dead-end streets and dead-end water lines

29. No fire hydrant shall be located within five feet (5') of any curb return, driveway, power pole, street light or any other obstruction.

30. Not more than two (2) hydrants can be out of service due to a single main break. Two sources of supply are required whenever there are two (2) or more fire hydrants installed on a single system.

31. Fire apparatus access roads shall have an unobstructed width of not less than twenty feet (20') provided no parking is allowed, not less than twenty - eight feet (28') if parallel parking is allowed on one side, and not less than thirty - six feet (36') if parallel parking is allowed on both sides. Vertical clearance shall not be less than thirteen-feet-six - inches (13' 6") and shall be paved.

32. The turning radius for any fire apparatus access road and/or fire lane, public or private, shall be not less than forty-five feet (45') outside radius and twenty-two feet (22') inside radius and shall be paved.

33. A fire apparatus road shall be required when any portion of an exterior wall of the first story is located more than one-hundred fifty feet (150') from Fire Department vehicle access roads and/or fire lanes, public or private, in excess of one-hundred fifty feet (150') in length shall be provided with an approved turn around area.

34. Access roads shall be marked by placing approved signs at the start of the designated fire lane, one sign at the end of the fire lane and width signs at intervals of one-hundred feet (100') along all designated fire lanes. Signs to be placed on both sides of an access roadway if needed to prevent parking on either side. Signs to be installed no higher than ten feet (10') or less than six feet (6') from roadway level. The curb along or on the pavement or cement if curb is not present, shall be painted with red weather resistant paint in addition to the signs.

35. Electrically controlled access gates shall be provided with an approved emergency vehicle detector/receiver system. Said system shall be installed in accordance with the South Jordan City F.D. Approval. Gates are only allowed with prior Approval.

36. All underground fire lines that service automatic fire sprinkler systems shall be no smaller than six (6) inches in diameter. All fire lines material shall be Ductile Iron. (Ductile Iron from the PIV to the building shall be permitted or Ductile Iron from the main water line to the MWI).

37. Post Indicator Valves (PIV) shall be between 6 and 40 feet from buildings not exceeding three stories or equivalent in height and between 30 and 40 feet on buildings in excess of three or more stories in height or equivalent.

38. Roads and accesses shall be designed and maintained to support the intended loads of fire apparatus. The fire shall be paved before the application of combustible material.

1.6 South Jordan City Water Notes

1. No work shall begin until the water plans have been released for construction by the Engineering Department. Following water plan approval, forty-eight (48) hour notice shall be given to the Public Services Department (253- 5230) prior to the start of construction. Notice must be given by 2:00 P.M. the business day prior to an inspection.

2. All work within South Jordan City shall conform to APWA, City Provisions, & AWWA.

3. For Residential Developments - The developer shall purchase and install meter boxes and setters satisfactory to the Public Services Department on newly developed lots and real property at the time the water main installation. The developer shall also provide the site address, lot number, meter size and meter fees prior to plan check approval.

4. For Commercial and Condominium Developments - The developer shall purchase and install water meters, meter boxes and setters satisfactory to the Public Services Department

5. All service laterals two inches (2") in diameter and smaller shall be IPS Poly tubing with South Jordan City approved service saddles.

6. All water meter boxes shall be located outside of driveway areas, no concrete within 2' of edge of lid.

7. All valves shall be located outside of driveways, gutters, curbs and alley gutters.

8. Warning tape placed 18" over pipe & tracer wire shall be required over all mains, all six-inch (6") diameter and larger service laterals, and any service lateral not installed perpendicular to the main.

9. All water facilities shall be filled, disinfected, pressure tested, flushed, filled and an acceptance water sample obtained prior to connection to the South Jordan City Distribution System.

10. Construction may interrupt service, with South Jordan City Public Services approval and proper notification, between the hours of 10:00 P.M. and 6:00 A.M. Sunday through Thursday. Circumstances that may require temporary service feed must have prior South Jordan City Public Services approval.

11. All water facility construction materials used must be as listed on the South Jordan City Services Works pre-approved materials and manufacturers listing for new facilities, latest revision or specifically approved on these plans.

12. Approval of these plans for the water stubout installation will not be construed as a commitment for water service to this property.

13. CONDITIONAL APPROVAL OF VALVED OUTLET (6" AND LARGER) :

In the event the water plans show one or more valved outlets extending out of paved areas, installations of these outlets is acceptable, however, if the outlets are incorrectly located or not used for as intended when the property is developed, the developer shall abandon the outlets at the connection to the active main in accordance with the city standards and at the developer's expense.

14. WATER CROSSING NOTE:

The following are the requirements that must be met when there is a water-sewer or water-storm crossing:

When protection of the water line is considered, the minimum vertical distance eighteen inches (18") must be maintained when the water line is installed over the sewer/storm line. If this distance cannot be maintained because of physical obstructions or the water line must be placed under the sewer/storm line, the sewer/storm line must be constructed with any one of the following:

A) Extra heavy cast iron or ductile iron pipe
B) Encasement with 4 inches minimum of concrete or sleeving with water quality pipe.

Each of these provisions must be extended for ten feet (10') on either side of the water line at 90 degrees to the crossing.

15. All work shall conform to the South Jordan City standards and specifications.

16. Service saddles or tapped collars will be required on all services.

17. Sewer and other Pollution Sources which are parallel with water lines shall have a minimum separation of 10 foot horizontal, at points where water and sewer lines cross a minimum vertical separation of 18 inches is required.

18. Deflection angle shall not exceed 2 ¼ degrees per 13-foot section of pipe for pipe sizes smaller than 14 inches and shall not exceed 2 degrees for pipe sizes between 14 inches and 16 inches.

19. Contractor to provide thrust blocks as required.

20. All lines to be pressure tested according to AWWA standards and chlorinated prior to use and final acceptance.

21. All fittings to be coated poly fm grease and wrapped with 8-mil thick polyethylene.

22. All valve boxes shall have concrete collars at surface of paved areas per South Jordan City Standards. Fire Hydrants, auxiliary valves and valve boxes to be set in 4'x5'x6" concrete.

23. No other utility lines may be placed in the same trench with water line.

24. No water meter boxes are to be placed in the driveway area. Service lateral locations shall be field verified prior to paving of street.

25. Culinary water lines shall be sized as shown on the approved plans. Residential services shall be ¾" diameter IPS as shown on plans, unless approved by City Water Division. Non-residential services shall be sized as shown on plans.

26. All water lines installed on project shall be PVC C-900 DR18 minimum PR 150 (waterline must be blue unless sewer is green) Secondary water lines installed on project shall be purple PVC C-900 DR18 minimum PR 150.

27. All gate valves are to be Mueller and resilient seated.

28. The contractor shall be responsible for removal of all material spilled on existing roadways on a daily basis.

29. Any conflict with existing utilities shall be immediately called to the attention of the engineer:n

30. All water vaults will be constructed per City of South Jordan standard drawings and specifications. No vaults are allowed in traffic areas without prior approval of engineering.

31. Landscaping and irrigation adjacent to vaults shall drain away from vaults.

32. Contractor shall provide appurtenances to perform pressure tests and disinfections as required by the City Engineer.

33. Culinary water lines shall have a minimum of 48 inches of cover to finish grade. Secondary water lines shall have a minimum of 36 inches of cover to finish grade.

34. Culinary water services and meters for residential developments shall be centered on the front of the lot and located within the park strip. Secondary water services shall also be located in the park strip with the stop and waste valve adjacent to the sidewalk and offset 7 feet from the side property line.

35. The contractor shall place a brass disk in the top back of the curb at the locations for the house services. Stamped "M" for culinary water, and "S" for sanitary sewer. The disks are supplied and installed by the contractor.

36. The contractor shall provide positive isolation of proposed culinary water lines from existing lines, as approved by the City, during construction, testing, chlorinating, and final connection procedures, as specified in section 4.3 and section 9 of APWA C651 standards.

37. Once the waterline has been tested, approved and city water is flowing through the pipe, only City personnel are authorized to shut down and change the waterline.

ABBREVIATIONS

BFV	BUTTERFLY VALVE
BOT	BOTTOM
BWN	BETWEEN
CL	CENTERLINE
CLR	CLEAR
CPLG	COUPLING
EL	ELEVATION
EX	EXISTING
EXCAV	EXCAVATION
FL	FINISH GRADE
FC	FLOW
FLD	FILLED
GALV	GALVANIZED
GB	GRADE BREAK
GV	GATE VALVE
IE	INVERT ELEVATION
ID	INSIDE DIAMETER
LC	ANGLE IRON
LF	LINEAR FEET
ML	MONUMENT IN CONCRETE
OD	OUTSIDE DIAMETER
P	POINT
PCT	POINT TANGENT ON CURVE
PCV	POINT ON VERTICAL CURVE
PLCS	PLACES
PVI	POINT OF VERTICAL INTERSECTION
RCC	ROLLER COMPACTED CONCRETE
RCP	REINFORCED CONCRETE PIPE
S	SLOPE
SQ	SQUARE
SS	STAINLESS STEEL
STA	STATION
TOC	TOP OF CONCRETE
TOS	TOP OF SLAB
TOW	TOP OF WALL
TYP	TYPICAL



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Legend

PROPOSED WATER LINE	—————
LIMITS OF DISTURBANCE	———
PARCEL BOUNDARY	—————
HYDRAULIC GRADE LINE	—————
SLOPE ARROW	————— 3:1
CENTER LINE	—————
EXISTING GRADE	—————
EXISTING MAJOR CONTOUR	—————
EXISTING MINOR CONTOUR	—————
EXISTING POWER LINE	— P — P — P —
EXISTING FIBER OPTICS LINE	— FO — FO — FO —
EXISTING WATER LINE	— W — W — W —
EXISTING SEWER LINE	— SS — SS — SS —
EXISTING GAS LINE	— G — G — G —
SECTION LINE	—————
RIGHT OF WAY LINE	—————
EXISTING BRINGHAM CREEK	—————
EXISTING ENSEHMENT CREEK	—————
EXISTING WATER LINE	————— (w)
PROPOSED MAJOR CONTOUR	————— 5005
PROPOSED MINOR CONTOUR	—————

ction and materials shall be in accordance with APWA s and Specification 2002 edition; and other applicable ards issued by the controlling agency; the International ; and all local city codes and ordinances applicable.

ce and location of any overhead or underground utility or structures shown on these plans are obtained by a e available records. Existing utilities are located on e the convenience of the Contractor. Existing utility, s may not be shown on the plans. The Contractor shall, nse, locate all underground and overhead interferences, ct his operation during construction and shall take all cautions to avoid damage to same. The Contractor shall use on when working near overhead utilities so as to safely rsonnel and equipment, and shall be responsible for all lity in connection therewith.

tor shall take all precautionary measures necessary to ing utility lines, structures and street improvements remain in place, from damage, and all such improvements o aged by the Contractor's operations shall be repaired or ctory to the City Engineer and owning utility company s of the Contractor.

ction shall be as shown on these plans, any revisions e prior written approval of the City Engineer.

concrete shall be used in all off-site concrete work. a 4000 P.S.I. minimum # 28 days. Mix designs to be e City, prior to the use on the project. Any concrete n October 15th and April 15th must be a 7.3 bag mix 0 psi concrete.

s required for any work in the public Right-of-way. The ll secure all permits and inspections required for this

oints required, maximum every 100' when hand forming e when slipping curb.

: to be one-half inch (1/2") above lip of all gutters on, except at sidewalk ramps and cross gutters.

r, and sidewalk, found to be unacceptable to the City ed and replaced.

amps shall be constructed in each quadrant of an or APWA standard drawing 235. Exact location of ramps may n the field by a City Inspector.

: shall provide all necessary horizontal and vertical new construction and existing surfaces to provide inage and for ingress and egress to new construction. The itions to be as shown on plans.

ng work shall conform to the soils report as prepared by ineer and approved by the City Engineer, and as shown on

tion of all sawcut lines may be adjusted or determined in a City of South Jordan Engineer if location on plans is own, or existing pavement condition requires relocation.

ector shall take all precautions necessary to protect nment surveying monuments. Any monuments disturbed shall d adjusted per available records at the Salt Lake County ice.

mpany meter boxes, manhole lids, valve covers, etc., e out of driveways, driveway aprons, flowlines, and unless written approval is granted by the utility company engineer.

: new or existing, are only shown on civil plans for the viewing grading relationships; flood control and sight intersections. New walls require a separate permit and the Building Department.

: design must be submitted and approved by the City r to the placement of Asphalt within City Right of Way.

: shall adjust all new and existing inlets, valve boxes, and sewer clean outs, etc. to finish grade as applicable t they are shown on the plans.

on for inspection by the City of South Jordan engineering s made by the contractor at least 48 hours before the vices will be required.

ublic streets, once begun, shall be prosecuted to hout delay as to provide minimum inconvenience to try owners and to the traveling public.

ector shall take all necessary and proper precautions to nt properties from any and all damage that may occur from noff and/or deposition of debris resulting from any and nnection with construction.

30% bond release, a certified legible as-built drawing ronic file (in dxr format) must be submitted to the City n. As-builts must show all changes and actual field rans drainage, water lines, irrigation street lighting, a the absence of changes, a copy of the approved drawings e required stating "Installed as per drawings" and such by the developers engineer along with the electronic rmat.

f these plans is for the construction of offsite nly. All onsite improvements, as defined by the City of including block walls, must be approved by the ad planning divisions of the City of South Jordan.

ilities are located on plans for the convenience of the ily. The contractor shall bear full responsibility for the utilities and the engineer bears no responsibility for shown on the plans or not in the location shown on the ncludes all service laterals of any kind.

DAN CITY STANDARD NOTES

Jordan City General Notes

25. Power poles and/or other existing facilities not in proper location based on proposed improvements shown hereon will be relocated at no expense to the City of South Jordan. Power poles are to be relocated and buried.

26. Curb and gutter with a grade of less than four-tenths of one percent shall be constructed by forming. Each joint shall be checked for a grade prior to construction and water tested as soon as possible after construction.

27. All grading shall conform to the soils report
Engineer: AMEC
Date: APRIL 2, 2003
Job Number: 3-817-004314

28. All street structural sections shall be per the recommendation of the soils engineer. No paving or base work shall commence until a street structural section is approved by the City of South Jordan Engineer.

29. Before any work is started in the right-of-way, the contractor shall install all advance warning signs for the construction zone. The contractor shall install temporary stop signs at all new street encroachments into existing public streets. Immediately after the first grading work is accomplished and shall maintain said signs until permanent signs are installed. All construction signing, barricading, and traffic delineation shall conform to UDOT Standards and to the manual of uniform traffic control devices-current edition and be approved by the City of South Jordan before construction begins.

30. All stationing is referenced to centerline.

31. Protection and replacement of survey monuments or property stakes not delineated on the contract shall be the contractor's responsibility. Replacement of survey monuments or property stakes shall be done to Salt Lake County Standards-g.

32. Affected utility companies shall be notified at least two (2) working days prior to commencement of construction.

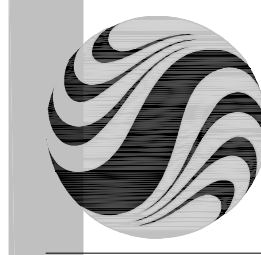
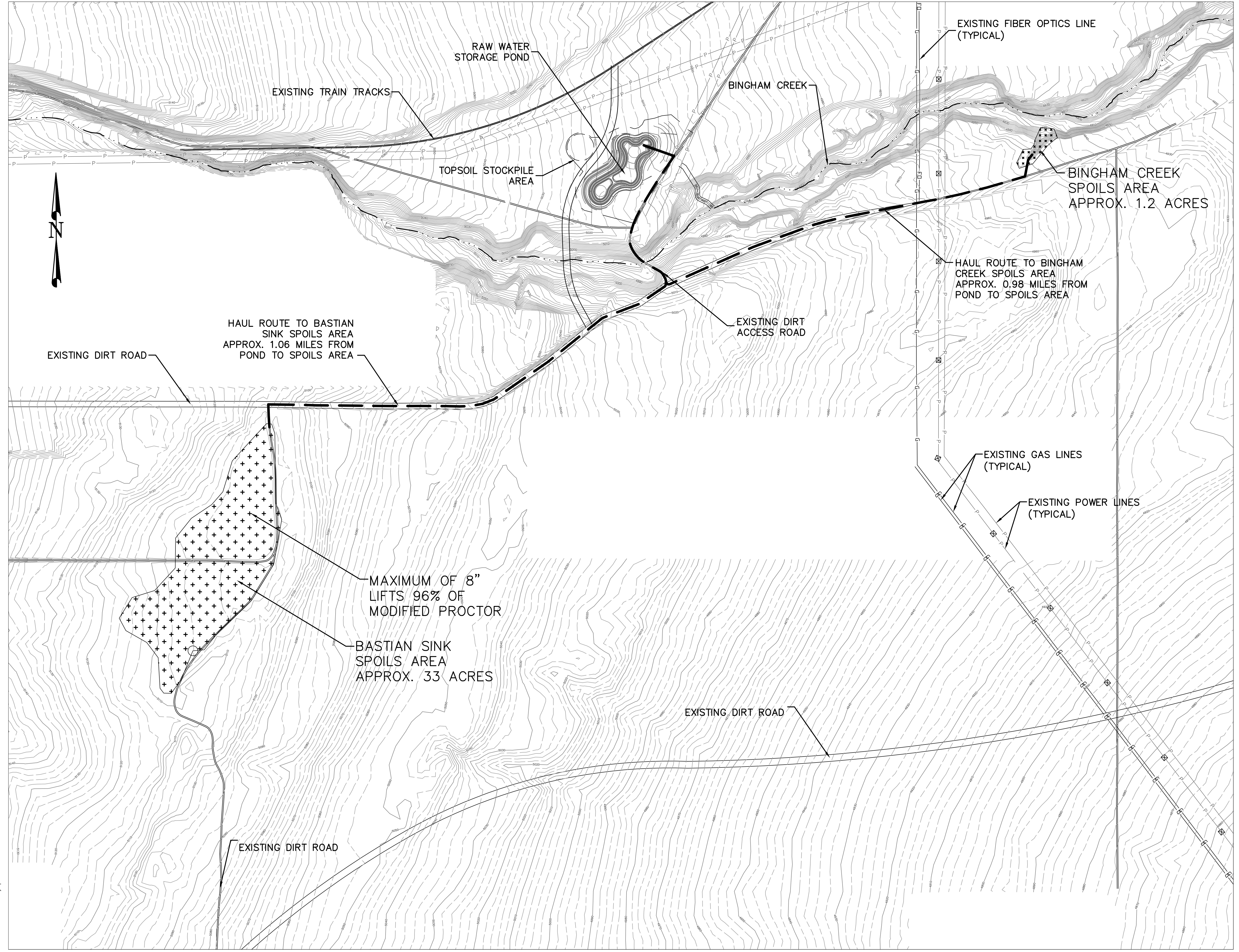
33. Modifications to existing utilities shall conform to the owner's utility standards and specifications.

34. The contractor shall take reasonable measures to protect existing improvements from damage and all such improvements damaged by the contractors operation shall be repaired or reconstructed to the engineer's satisfaction at the expense of the contractor.

35. City approval of the improvement plans is granted for one (1) year only. Plans must be resubmitted for review and approval to the engineering dept. City of South Jordan, if work is not completed by _____, 20_____.

36. Contractor to follow Salt Lake County Noise Ordinance Standards.

37. Contractors



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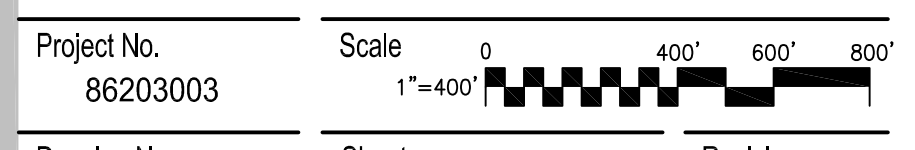
Notes

Revision	By	Appd.	YY.MM.DD
2	PMD	JRB	04.02.09
1	By	Appd.	YY.MM.DD

File Name: G003.dwg
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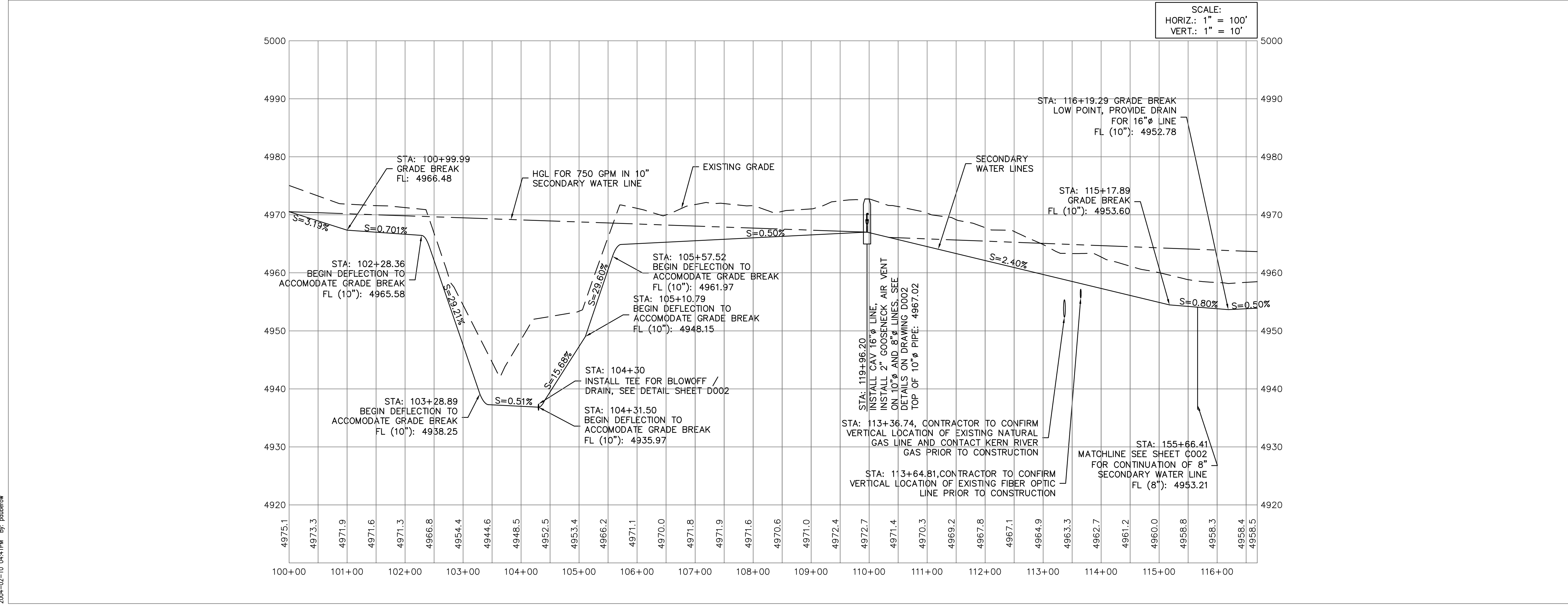
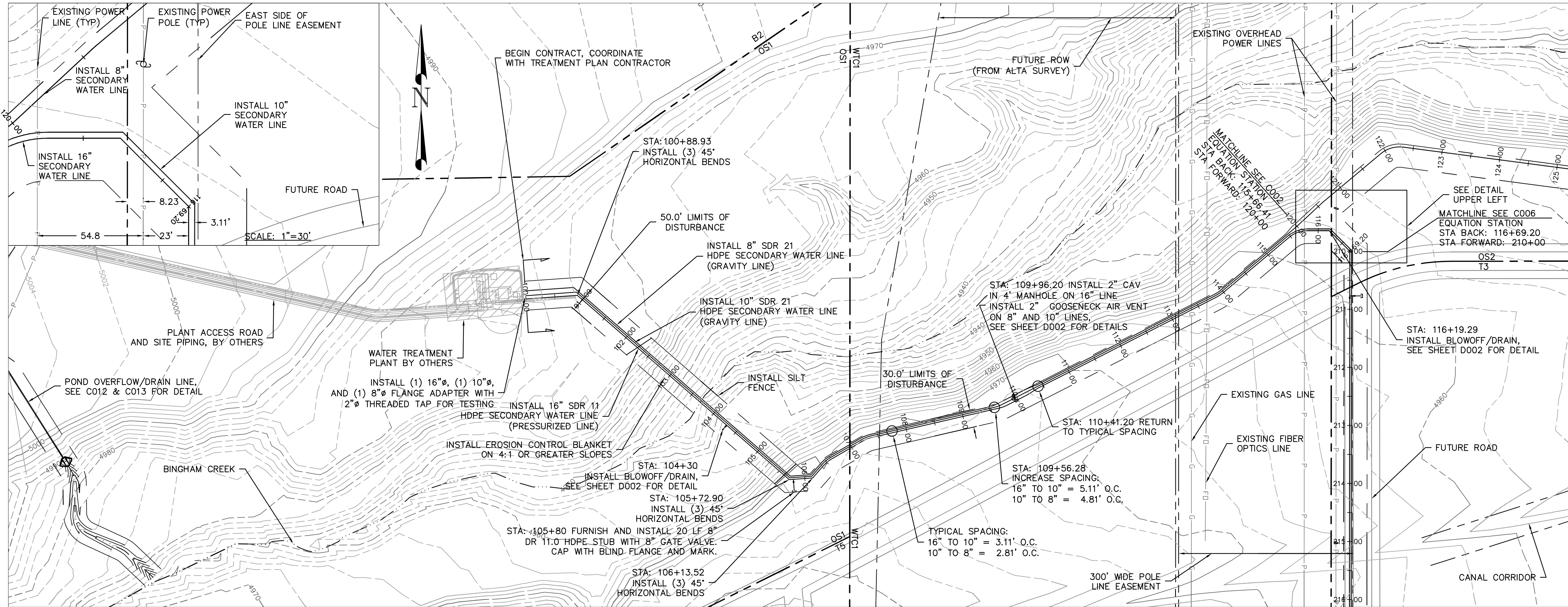
Client/Project
KENNECOTT LAND COMPANY
DAYBREAK DEVELOPMENT
 SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title
HAUL ROUTES TO SPOILS AREAS



G003 4 of 28 **0**

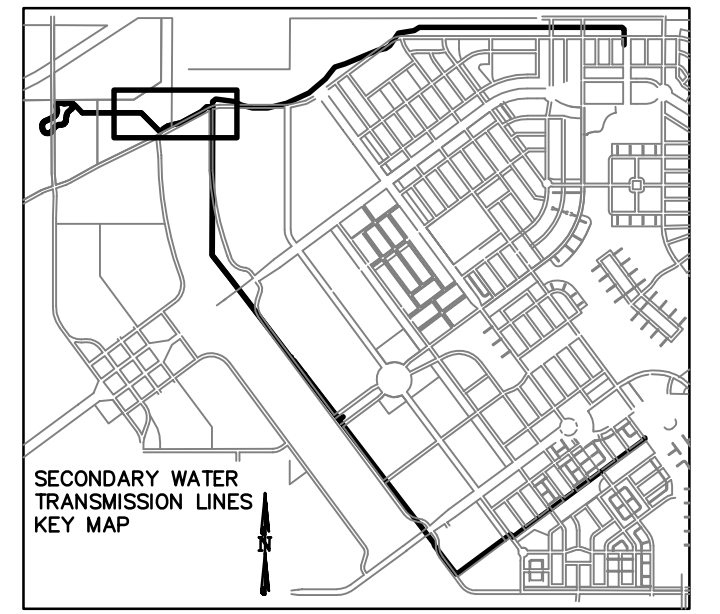
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Title
SECONDARY WATER LINE
PLAN AND PROFILE
STA: 100+00 TO STA: 116+69.20

Project No. 86203003
 Drawing No. Sheet
 Scale: 1"=100'
 1"=10' V

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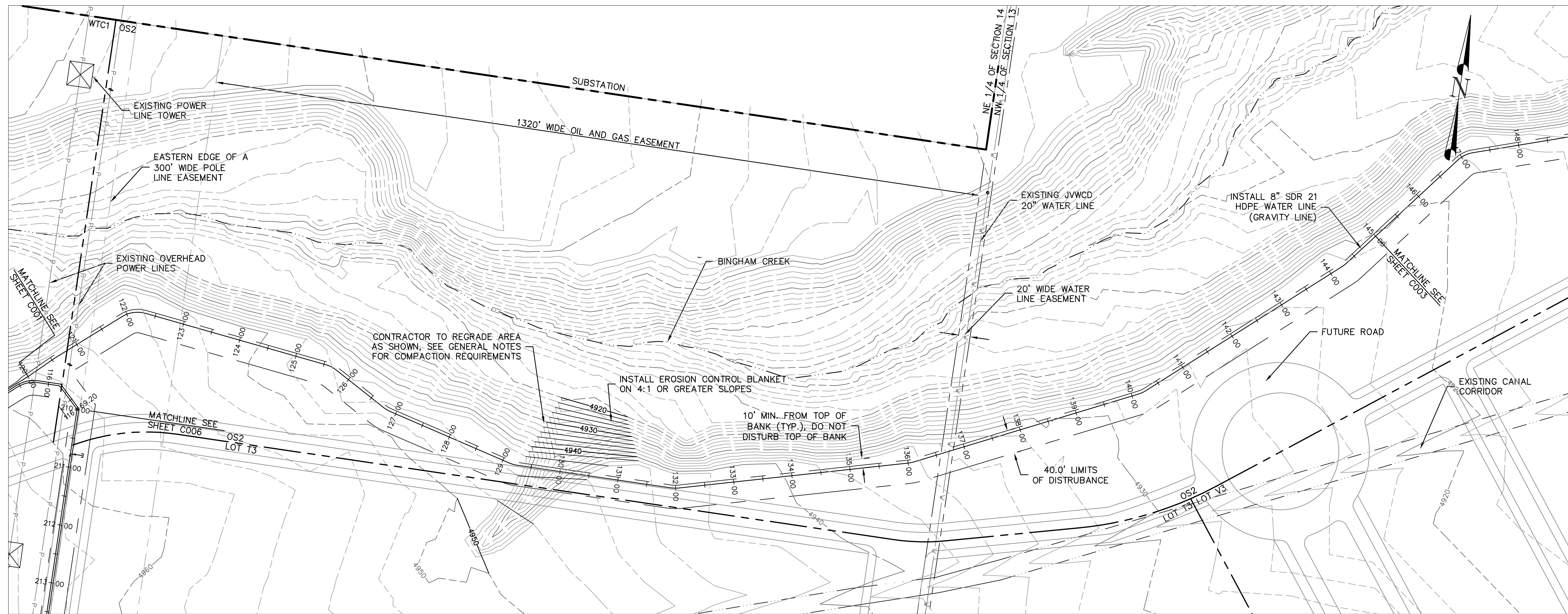
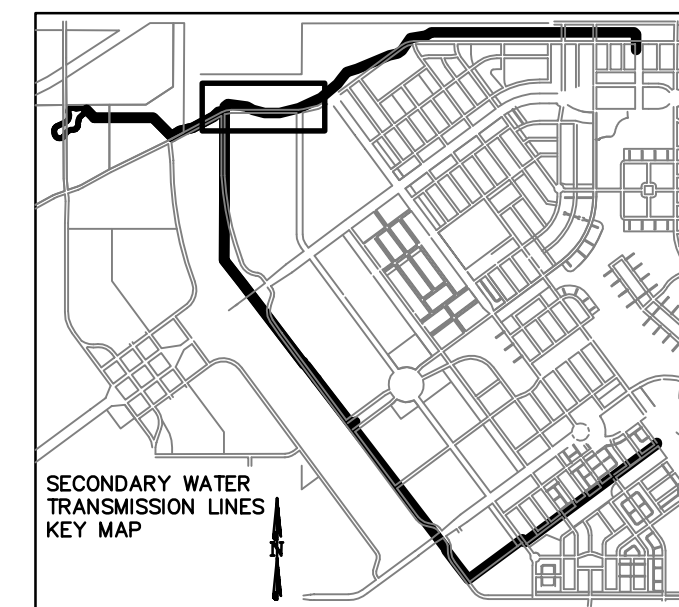
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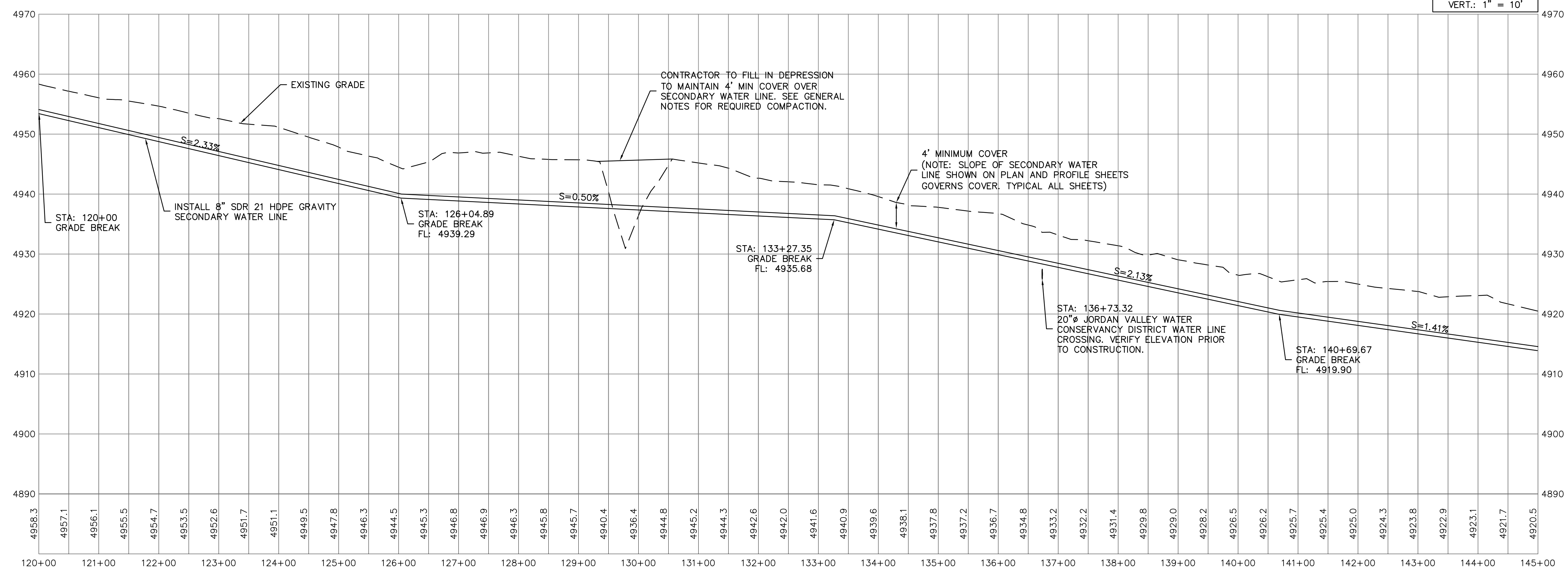
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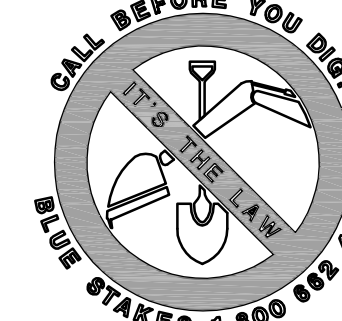
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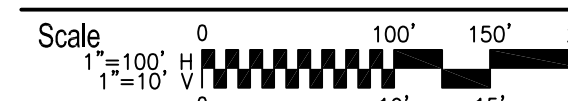
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SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title

SECONDARY WATER LINE
 PLAN AND PROFILE
 STA 120+00 TO STA 145+00

Project No.
 86203003



Drawing No.

Sheet

Revision

C002

6 of 28

0

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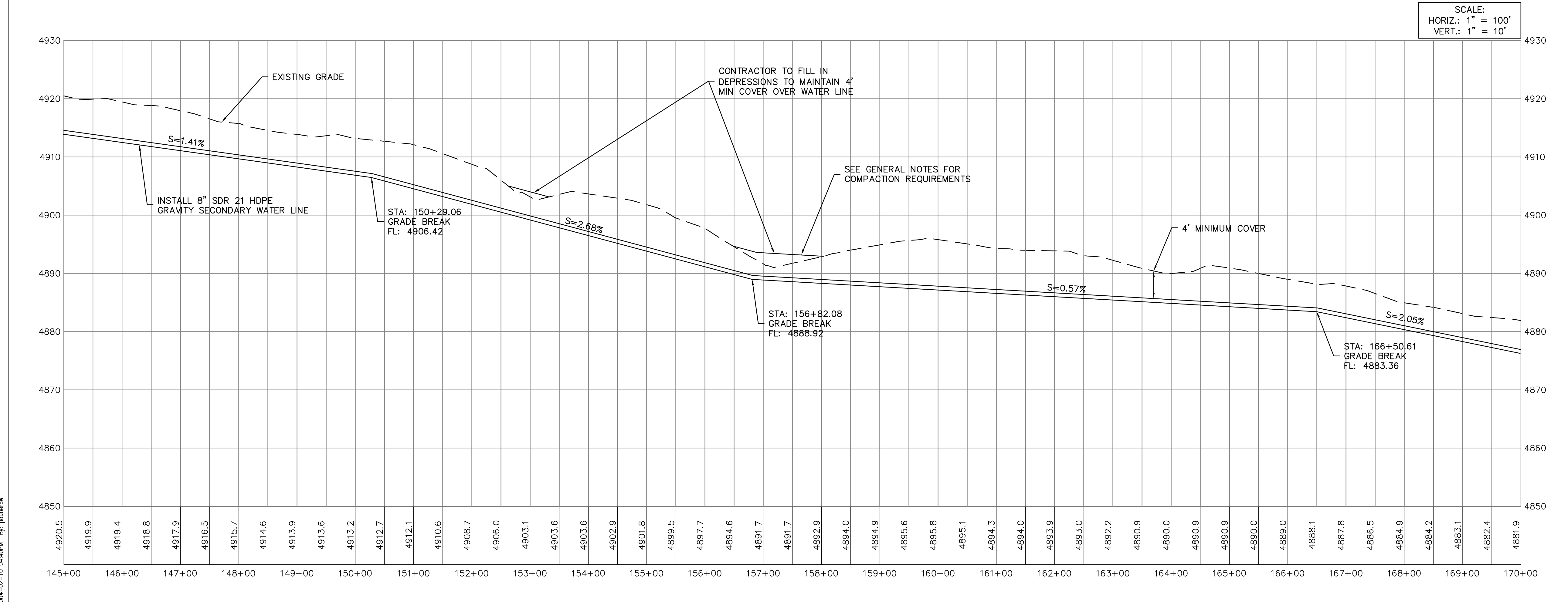
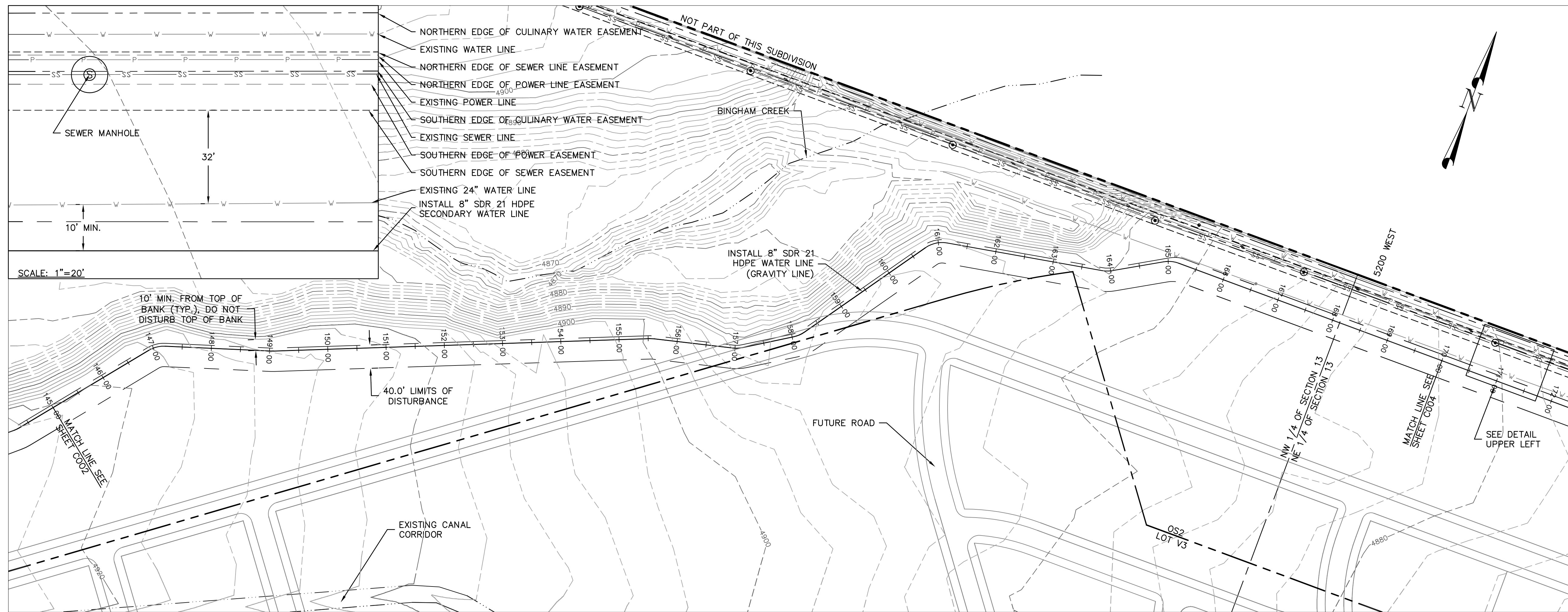
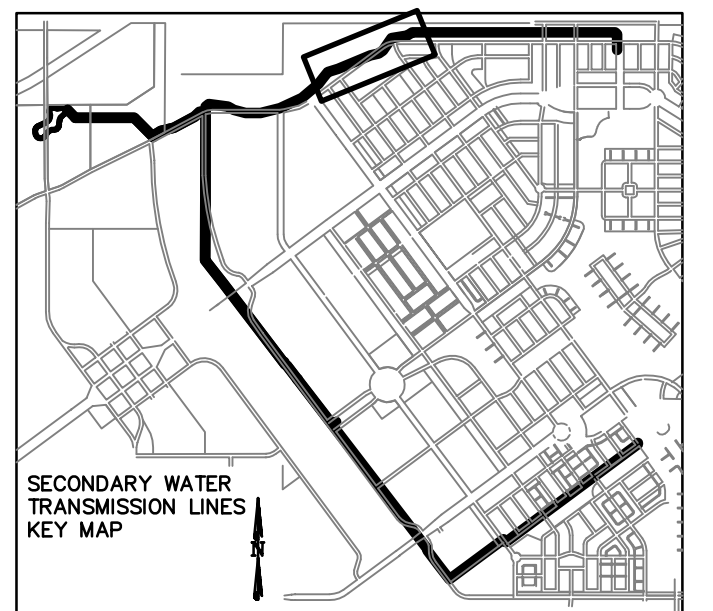
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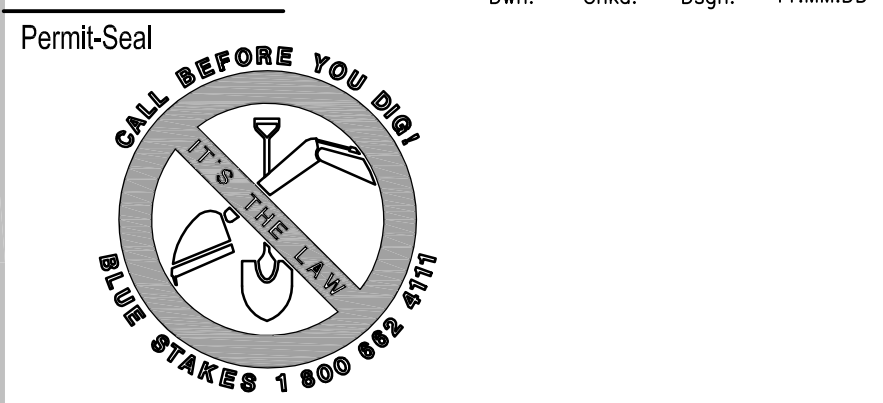
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 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title
SECONDARY WATER LINE
PLAN AND PROFILE
STA 145+00 TO STA 170+00

Project No. 86203003	Scale 1" = 100' 1" = 10' V
Drawing No. C003	Sheet 7 of 28

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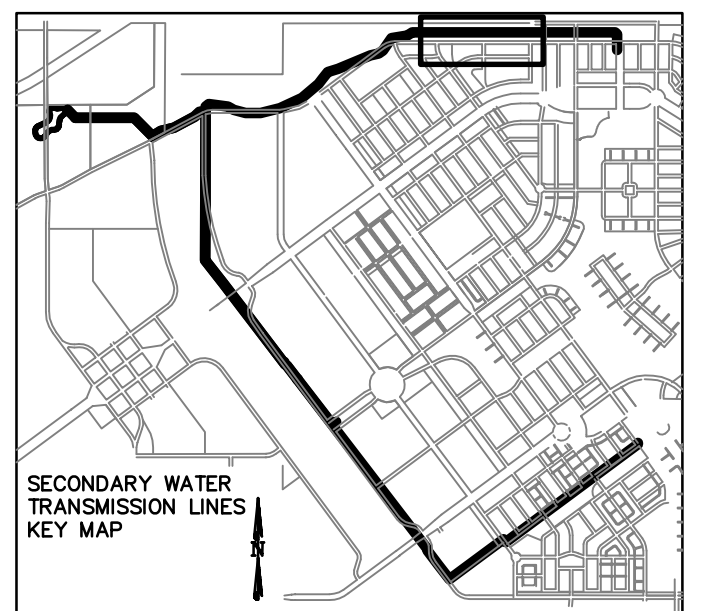
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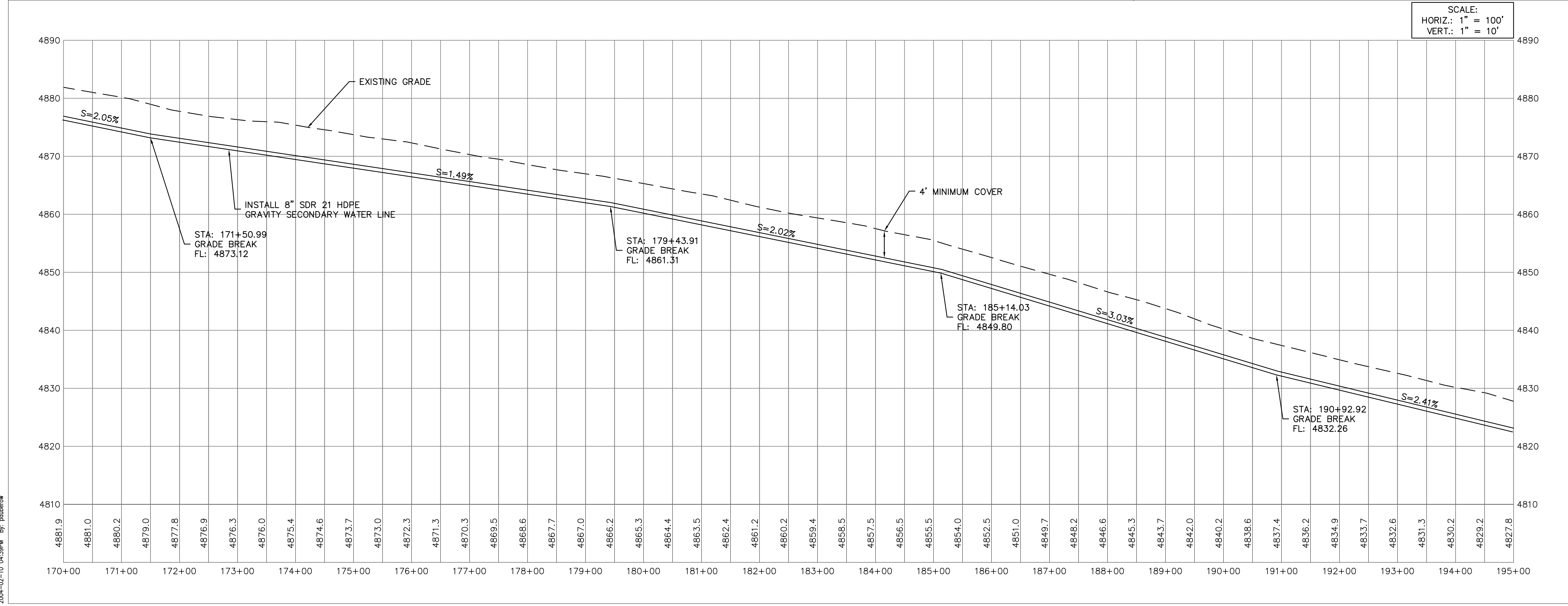
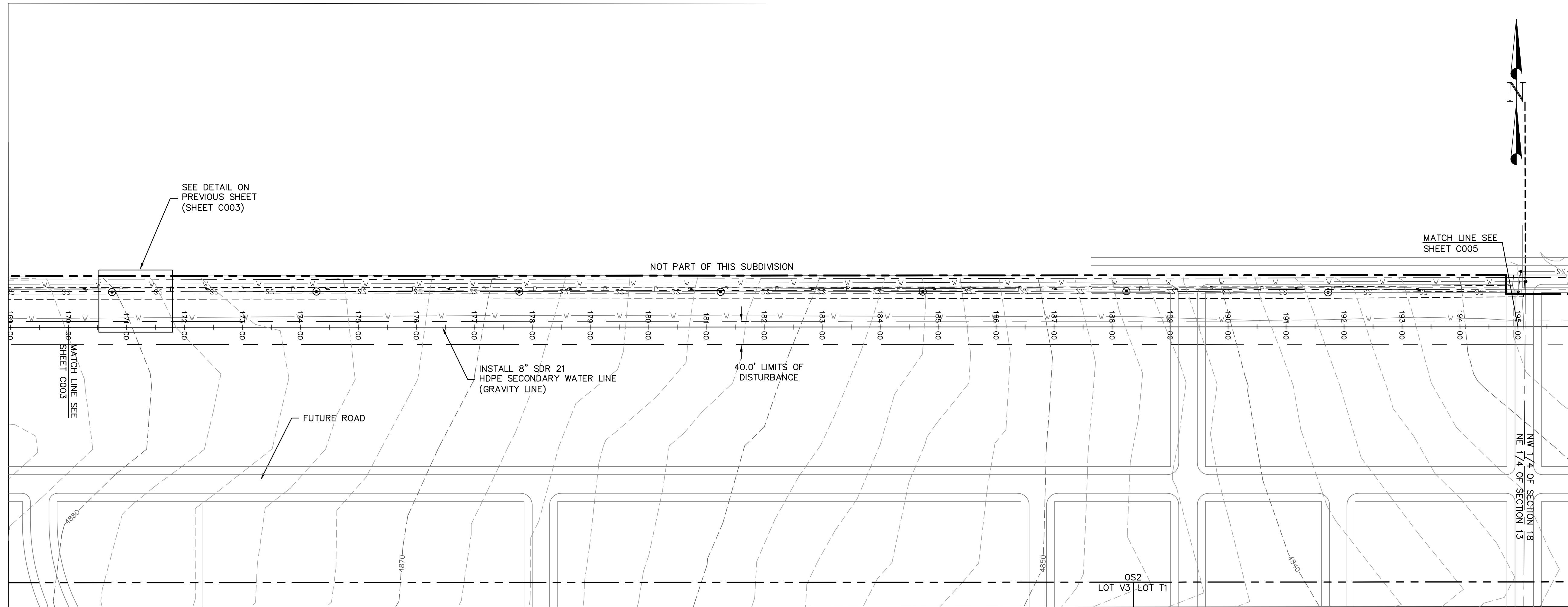
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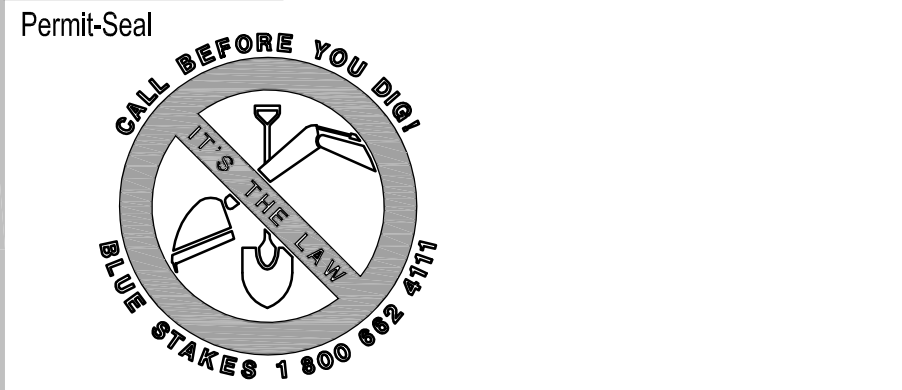


SCALE:
 HORIZ.: 1" = 100'
 VERT.: 1" = 10'



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 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title
 SECONDARY WATER LINE
 PLAN AND PROFILE
 STA 170+00 TO STA 195+00

Project No.	Scale
86203003	1"=100' H 1"=10' V
Drawing No.	Sheet
C004	15

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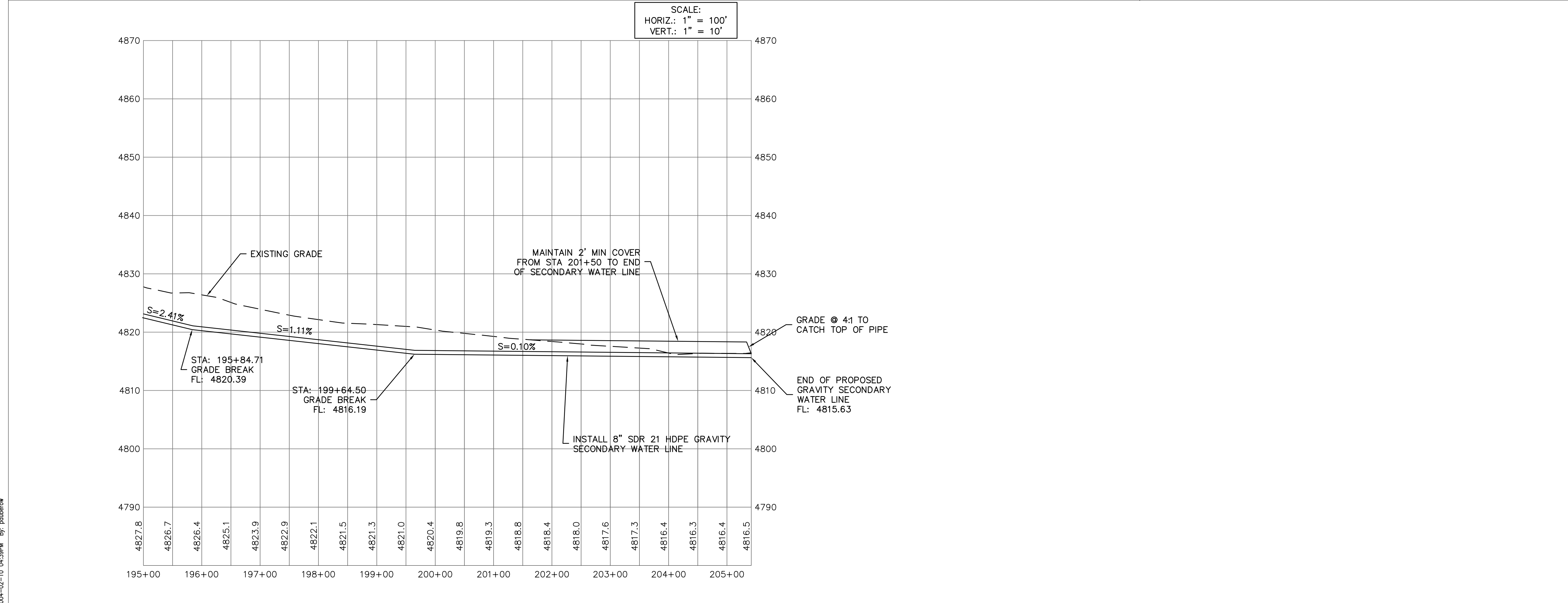
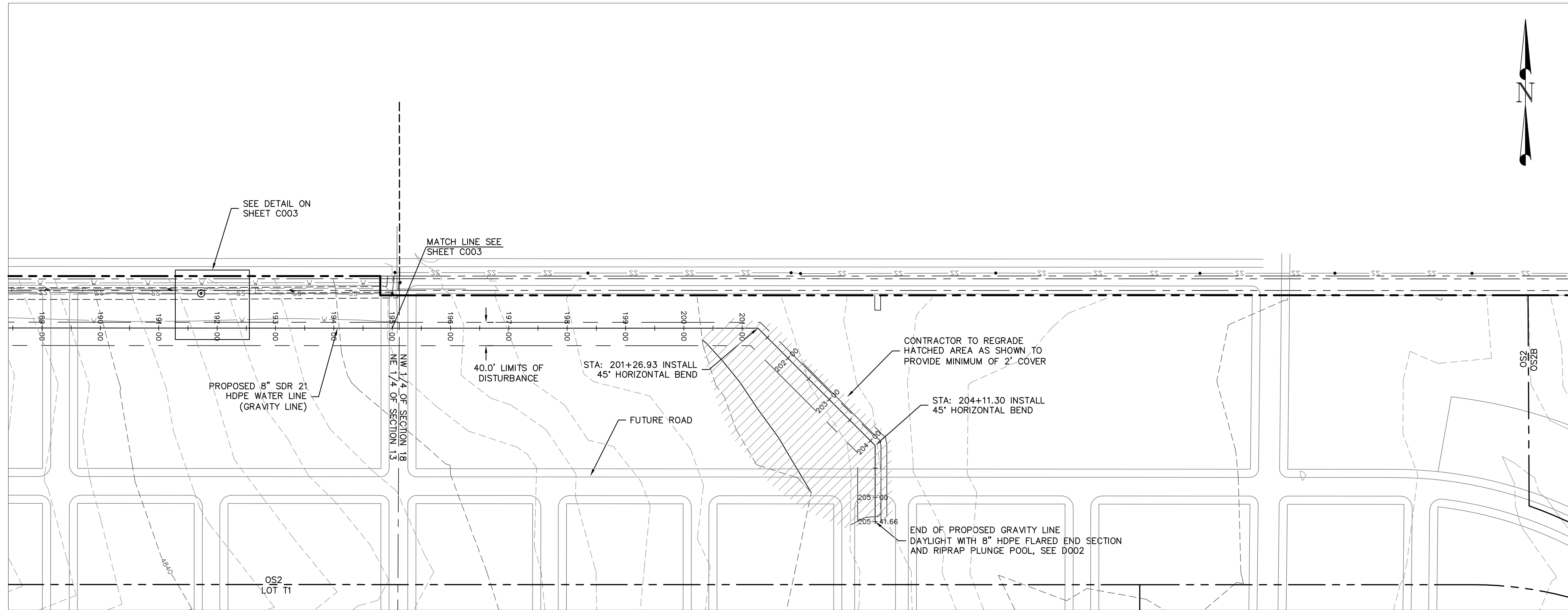
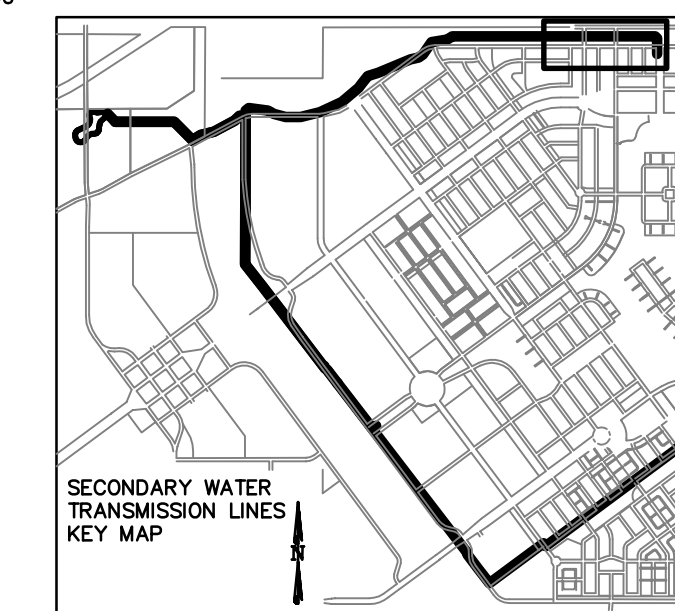
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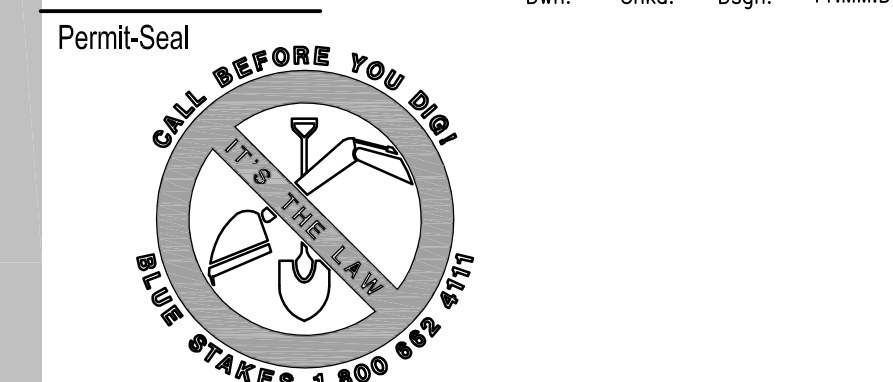
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SCALE:
 HORIZ.: 1" = 100'
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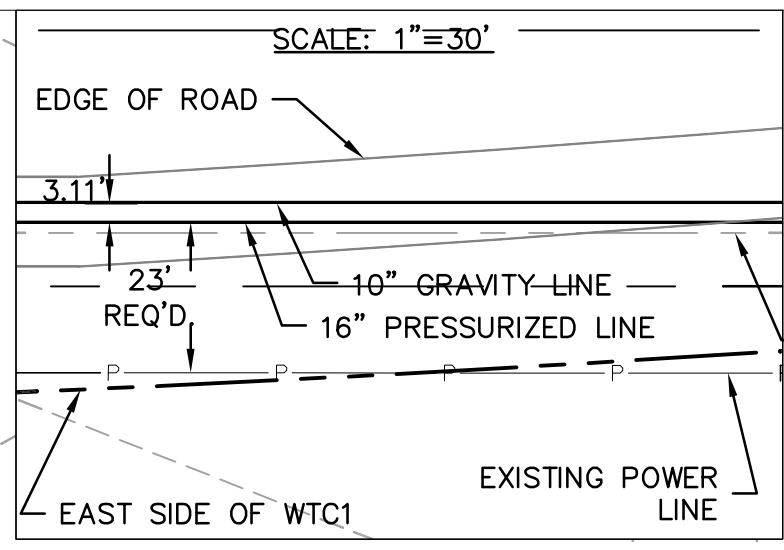
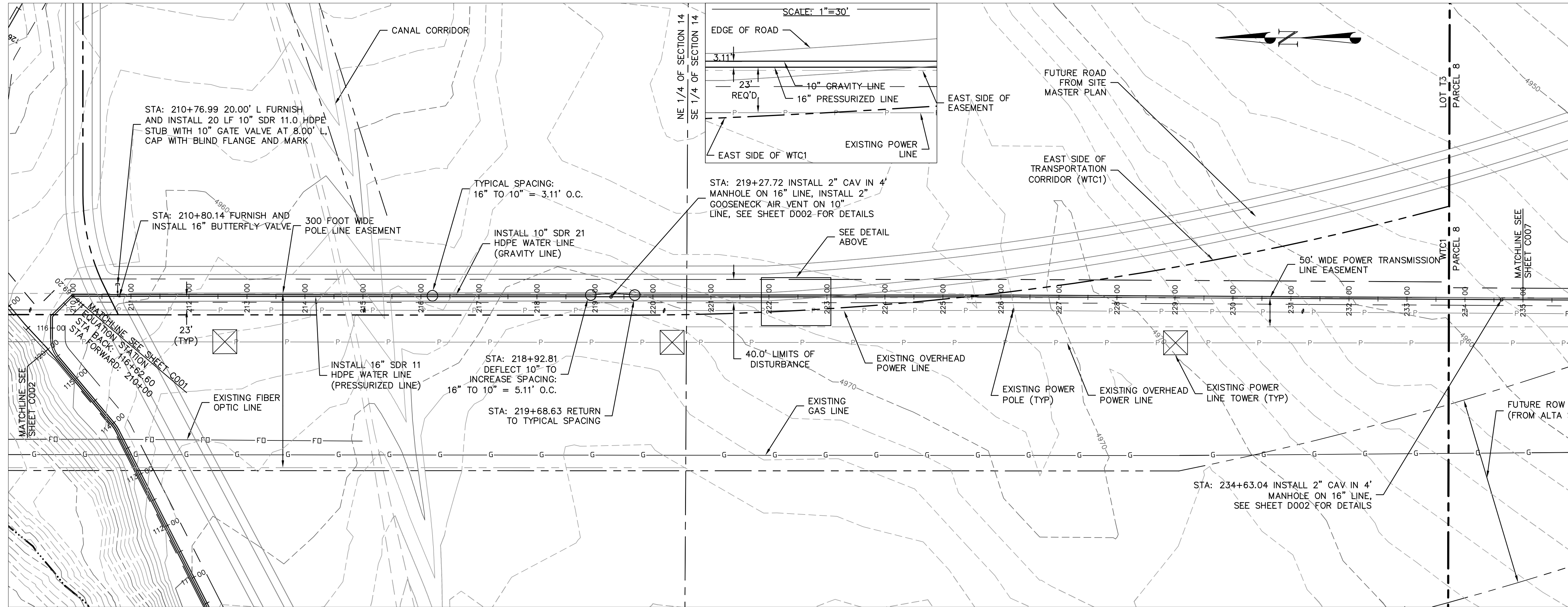
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 SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title
SECONDARY WATER LINE
PLAN AND PROFILE
STA 195+00 TO STA 205+41.66

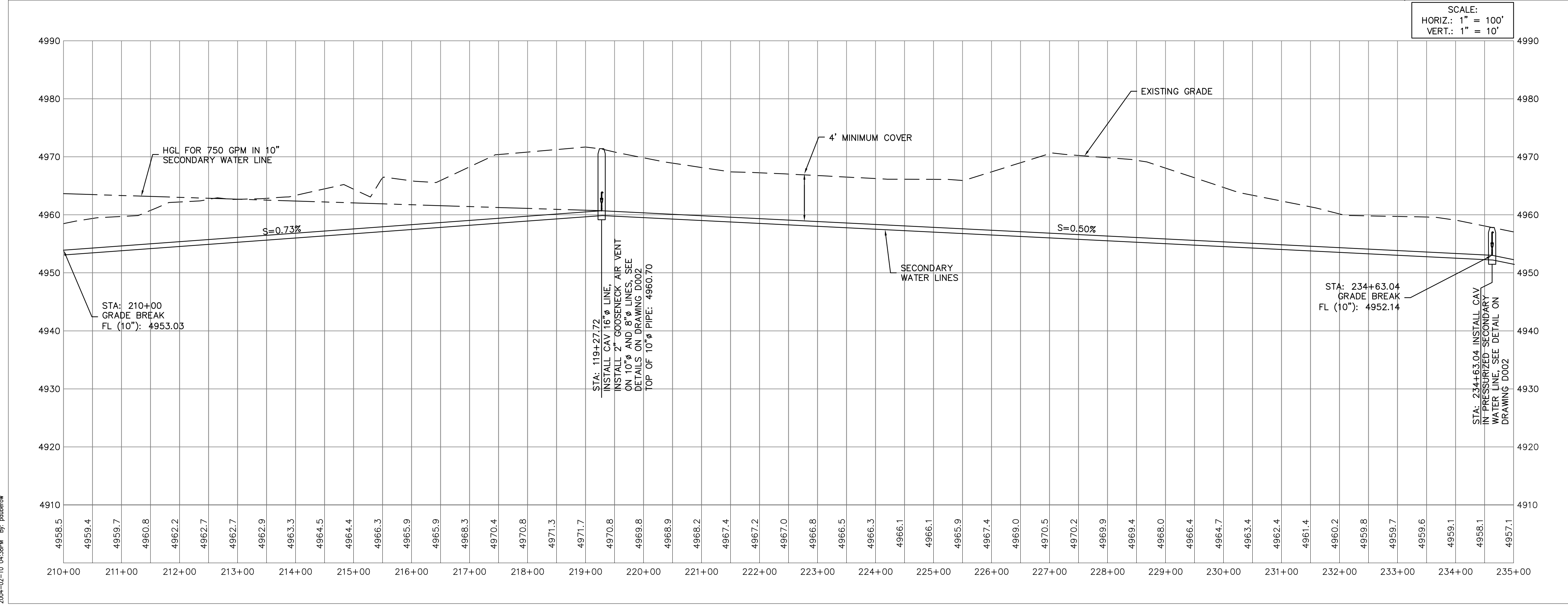
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 Drawing No. Sheet Revision

C005 9 of 28 **0**

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SCALE:
HORIZ.: 1" = 100'
VERT.: 1" = 10'



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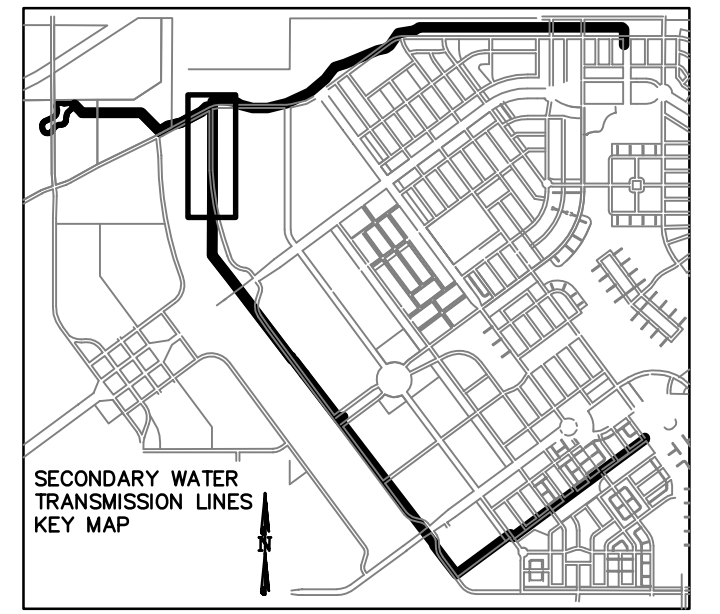
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DAYBREAK DEVELOPMENT**

**SECONDARY WATER SYSTEM STORAGE
POND AND TRANSMISSION LINES**
SOUTH JORDAN CITY, UT

Title
**SECONDARY WATER LINE
PLAN AND PROFILE
STA 210+00 TO STA 235+00**

Project No. 86203003 Scale 1"=100' H 1"=10' V
Drawing No. Sheet 15 of 15

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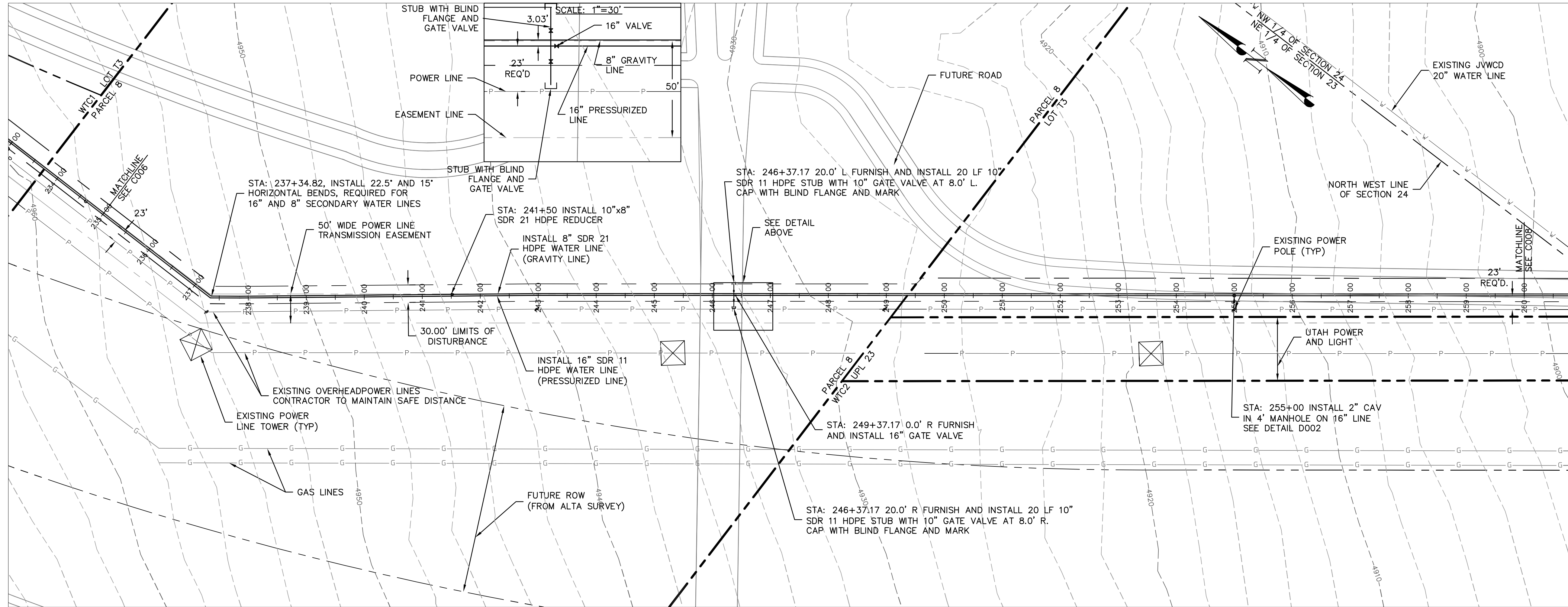
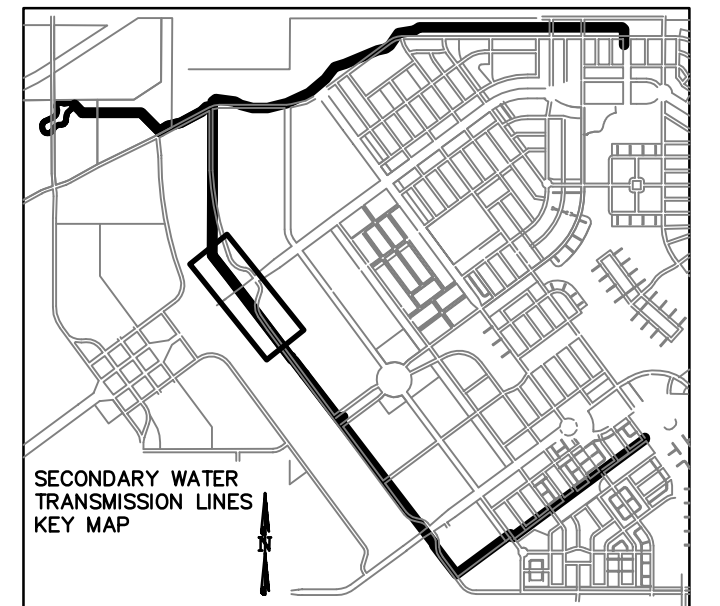
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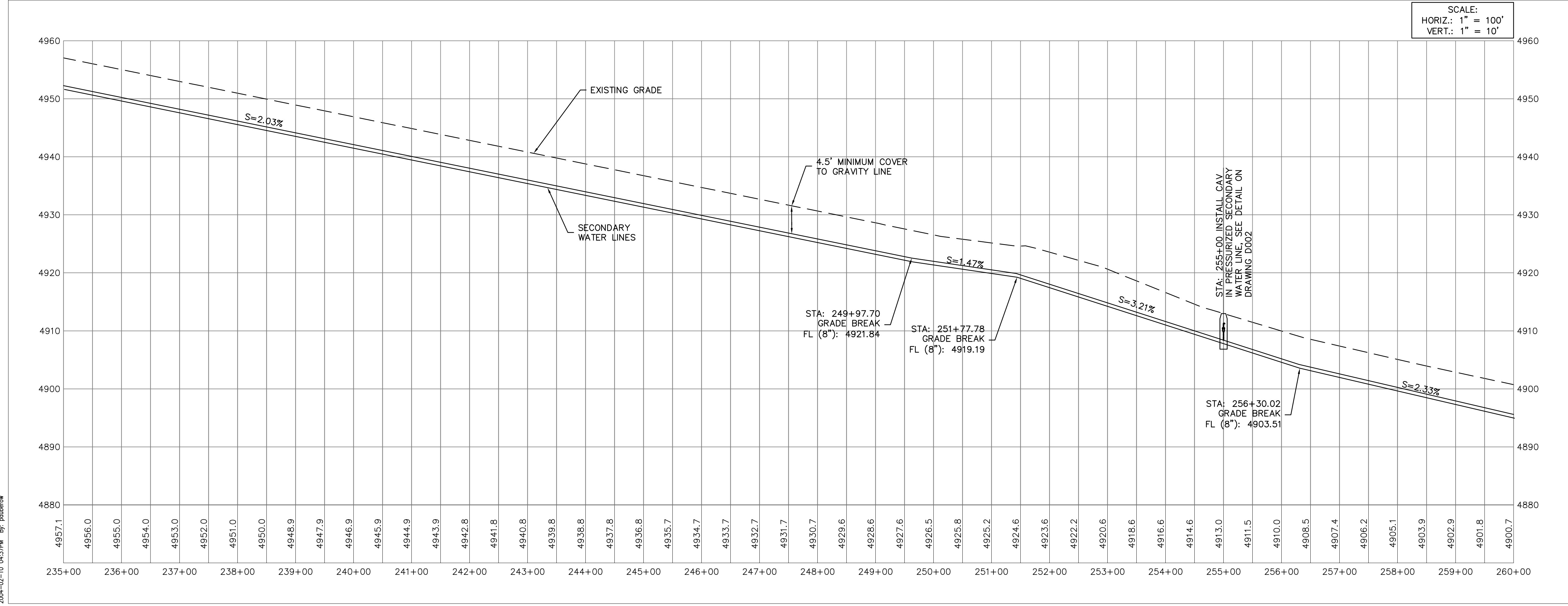
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 VERT.: 1" = 10'



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 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title
 SECONDARY WATER LINE
 PLAN AND PROFILE
 STA 235+00 TO STA 260+00

Project No. 86203003	Scale 1"=100' 1"=10'	Sheet 15 of 15
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Drawing No. C007 11 of 28 0

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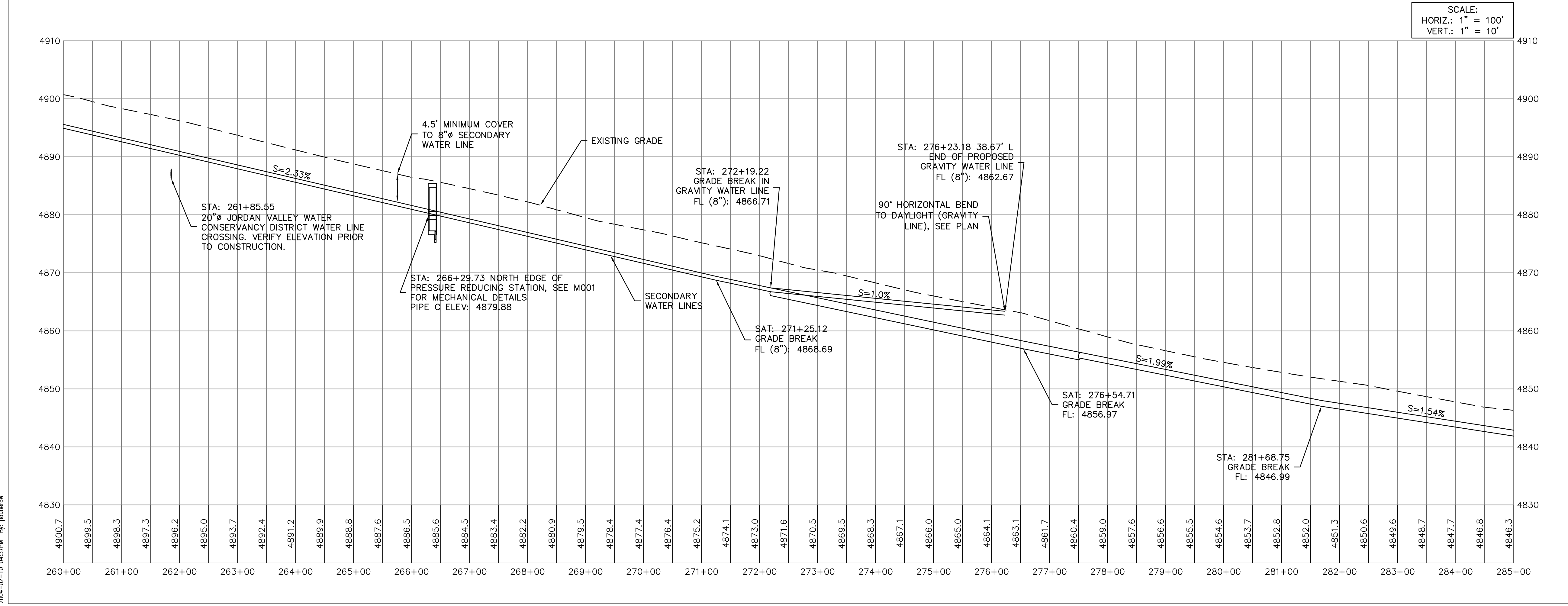
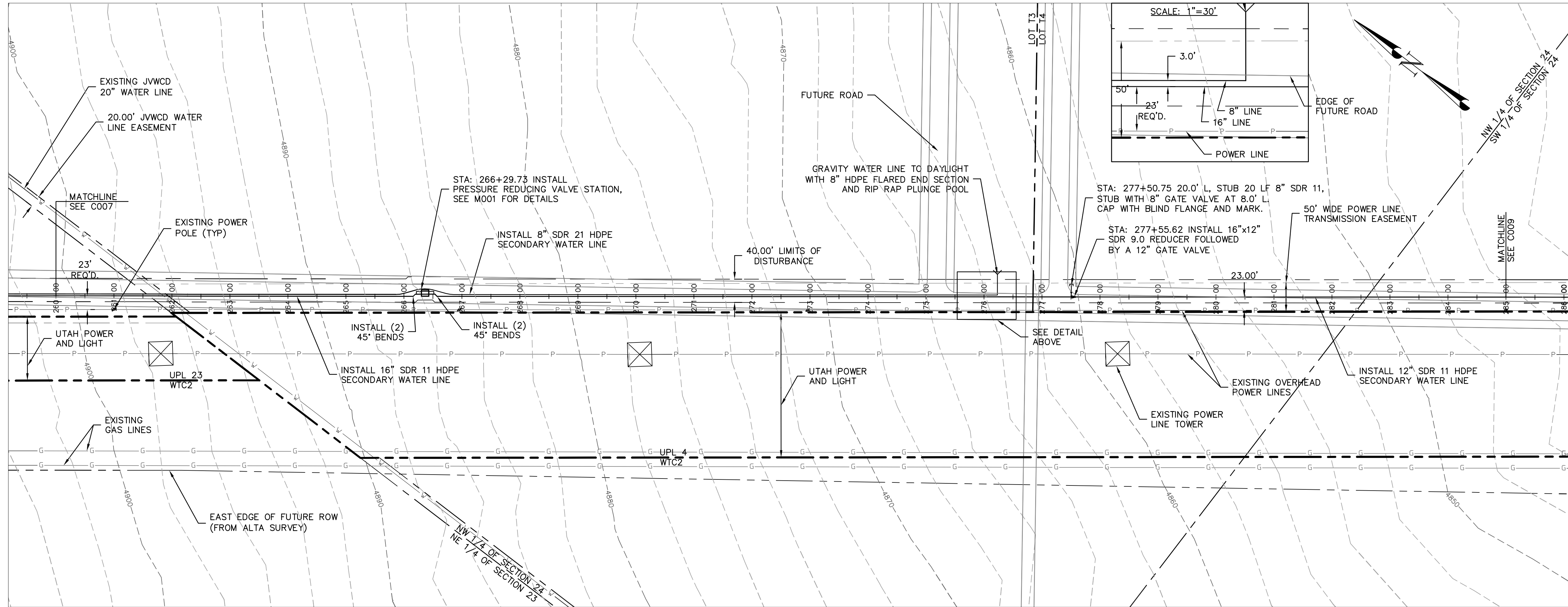
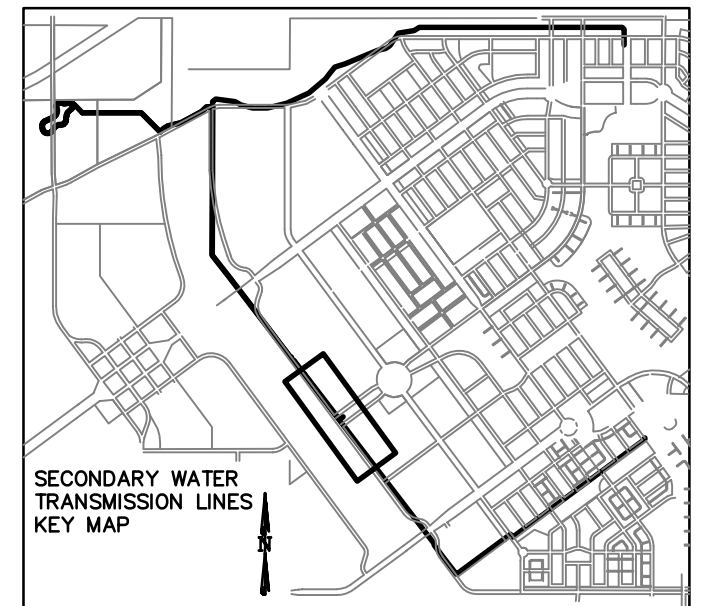
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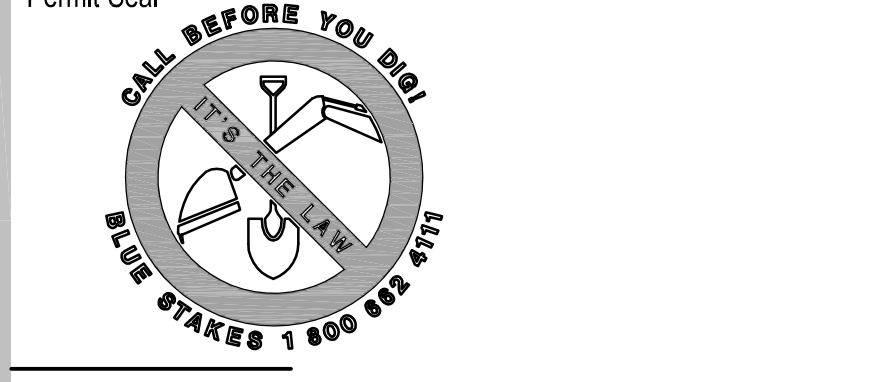
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 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title
SECONDARY WATER LINE
PLAN AND PROFILE
STA 260+00 TO STA 285+00

Project No. 86203003
 Drawing No. C008
 Scale: 1" = 100' HORIZ. 1" = 10' VERT.
 Sheet 15 of 15

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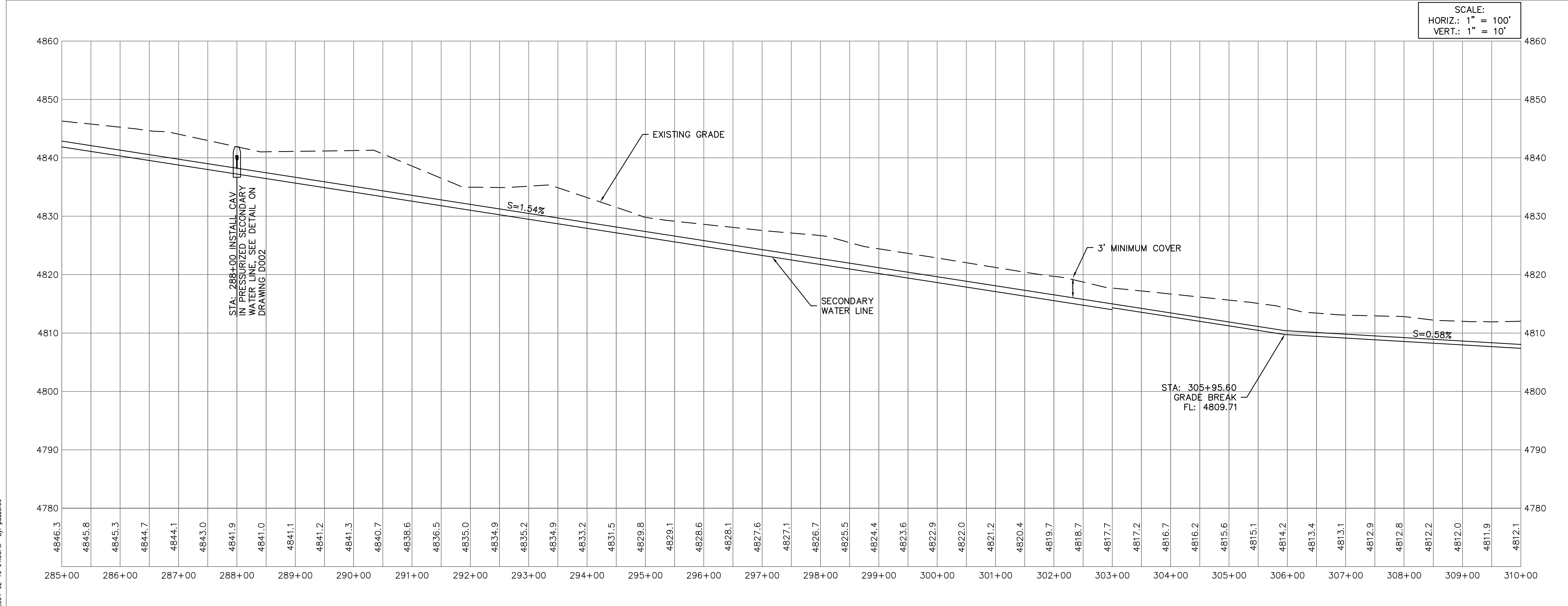
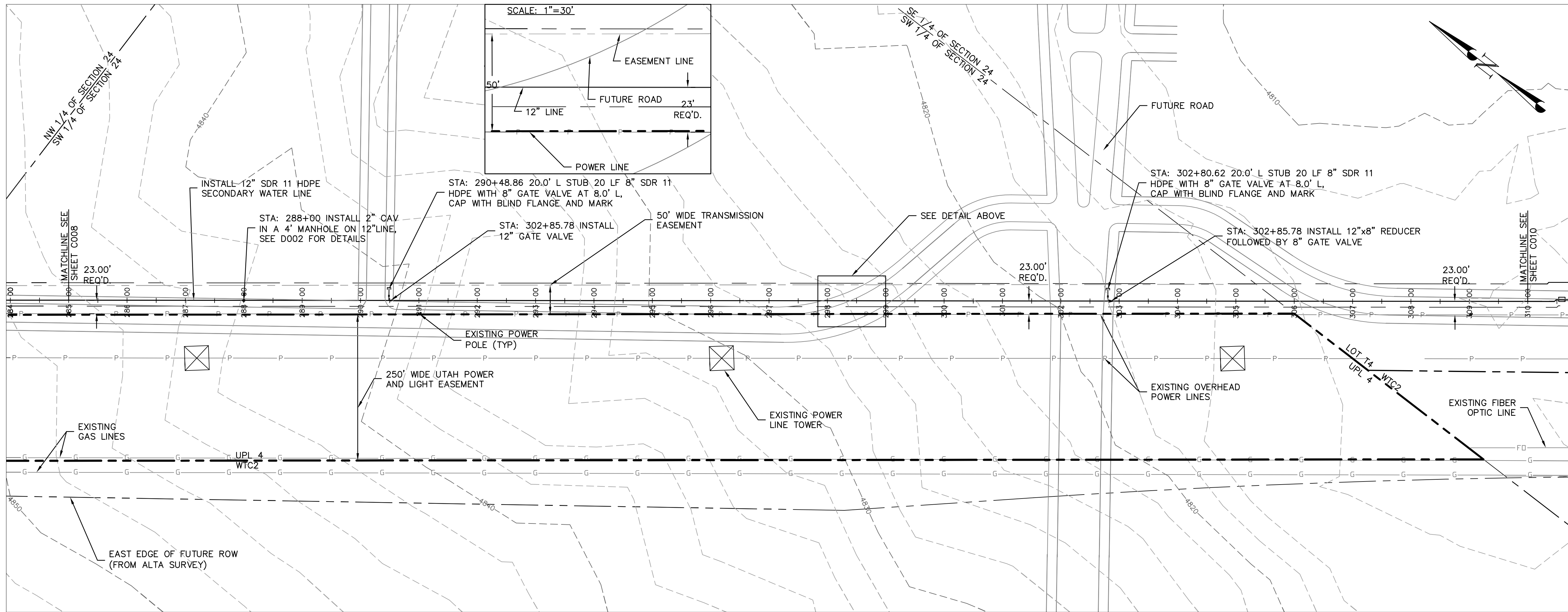
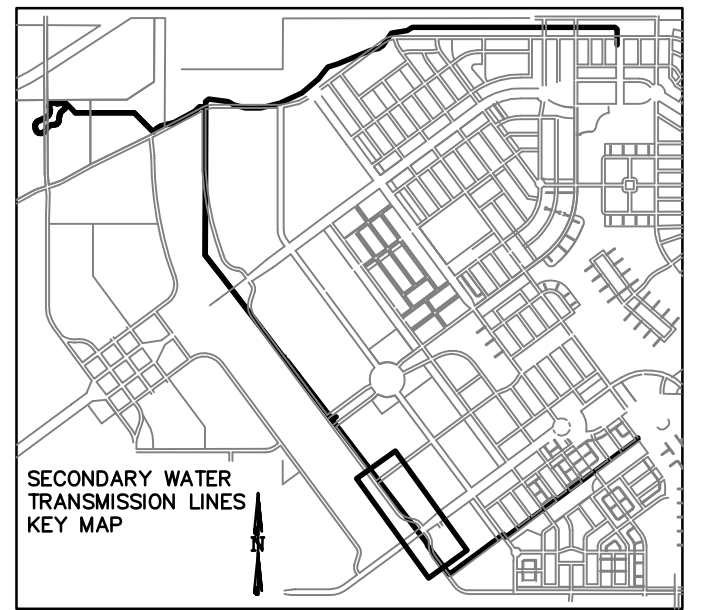
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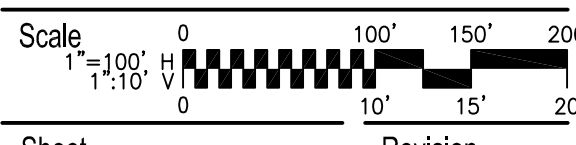
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SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title

SECONDARY WATER LINE
 PLAN AND PROFILE
 STA 285+00 TO STA 310+00

Project No.
 86203003



Drawing No.

Sheet

Revision

C009

13 of 28

0

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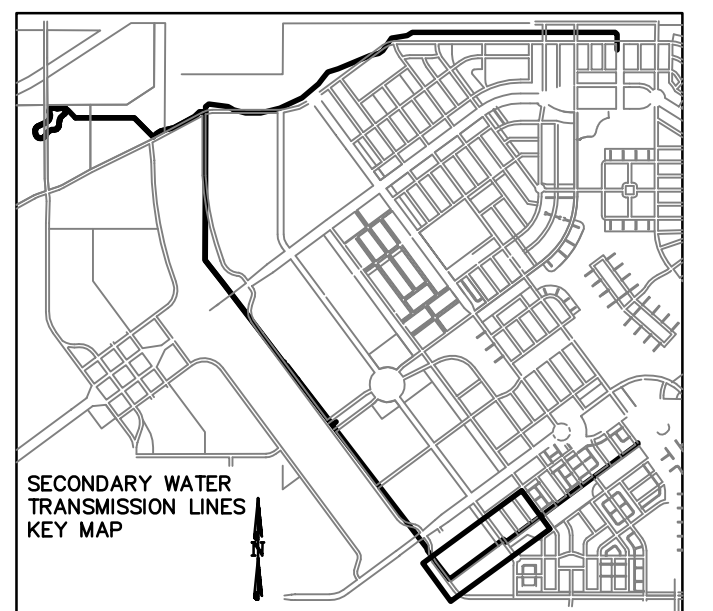
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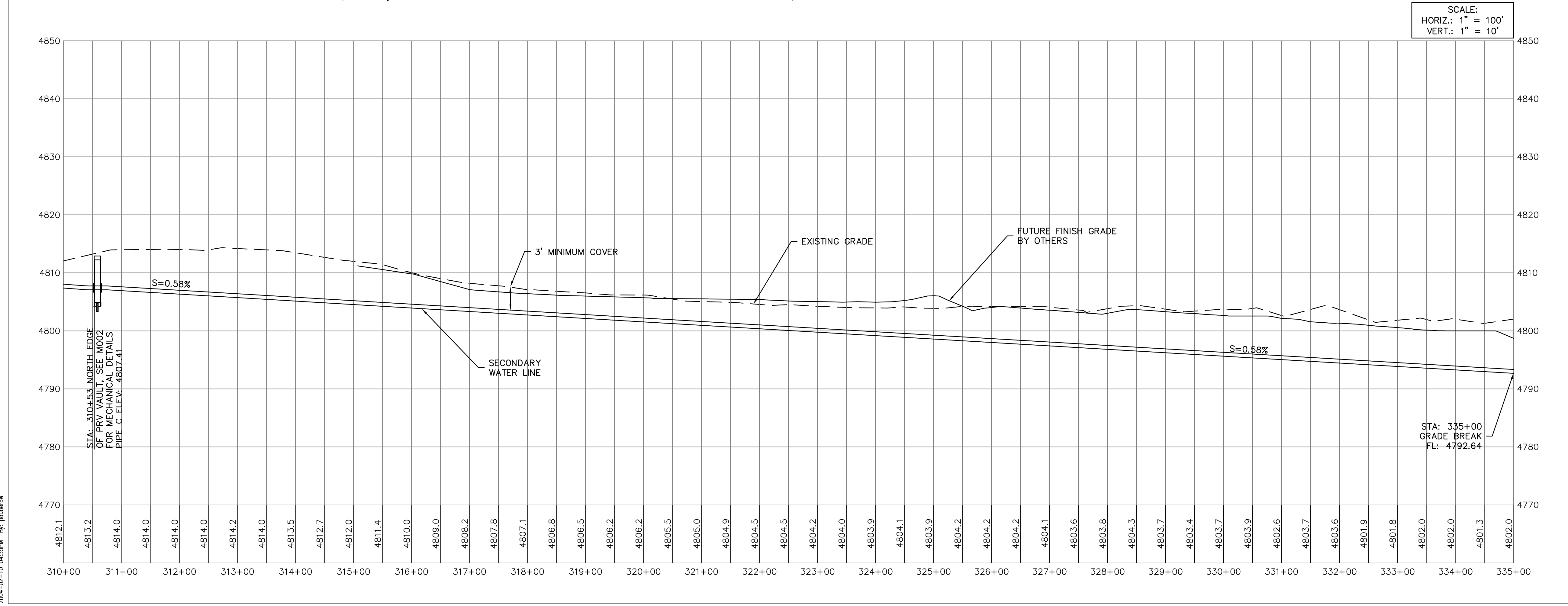
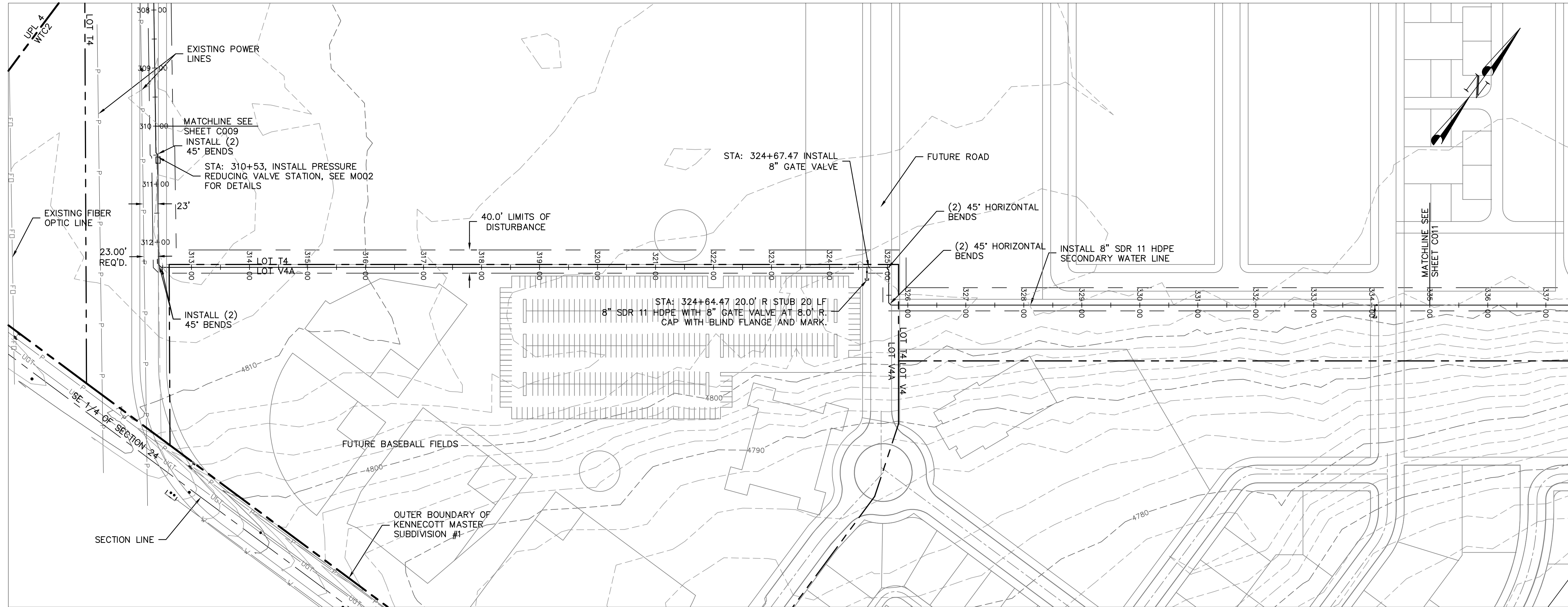
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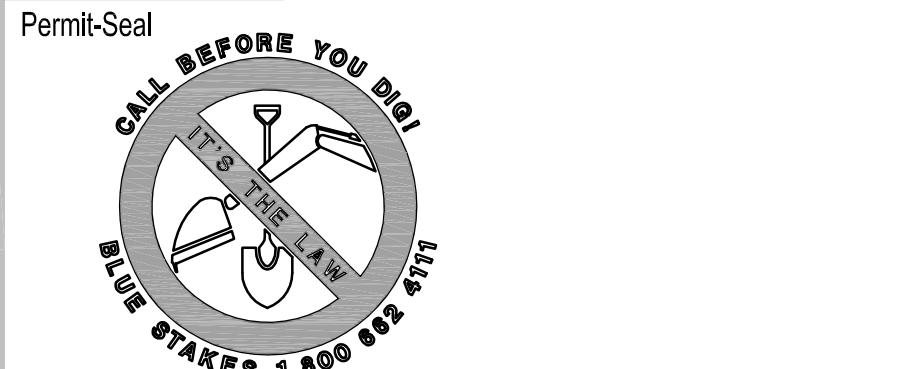


SCALE:
 HORIZ.: 1" = 100'
 VERT.: 1" = 10'



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 SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title
SECONDARY WATER LINE
PLAN AND PROFILE
STA 310+00 TO STA 335+00

Project No. 86203003	Scale 1" = 100'	Sheet 15
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Drawing No. **C010** 14 of 28 0

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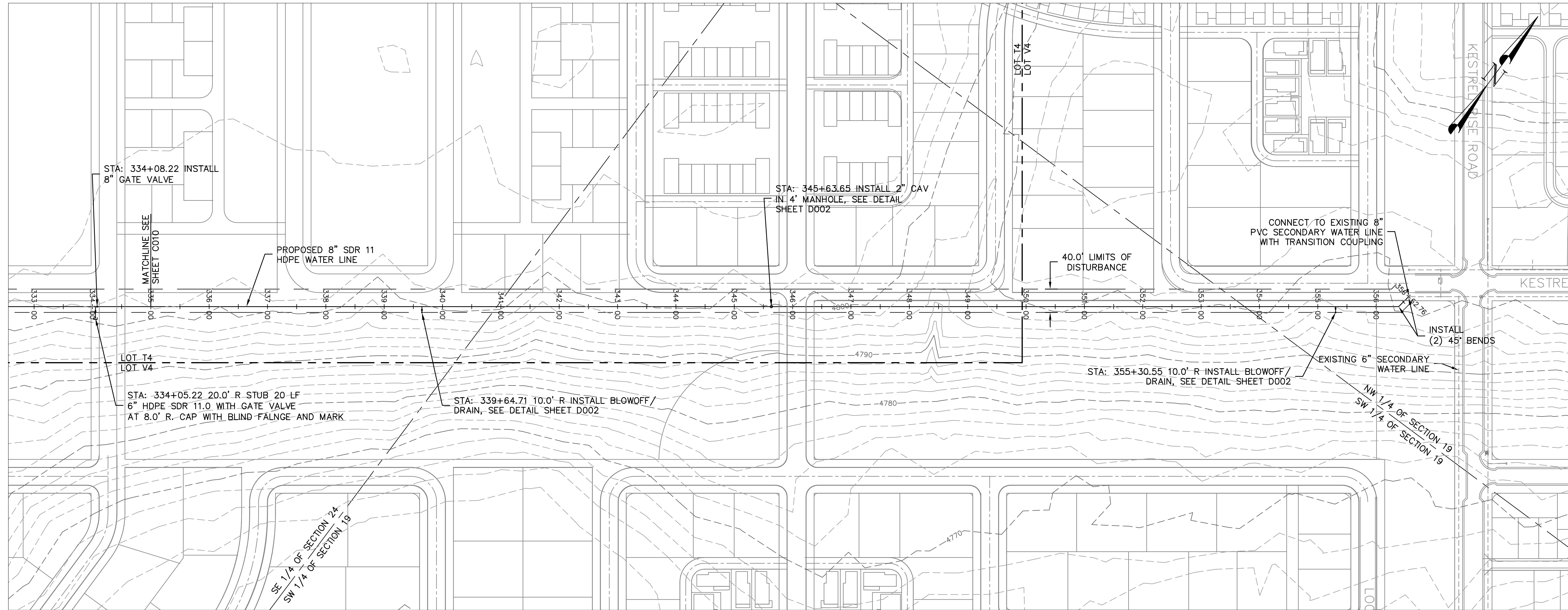
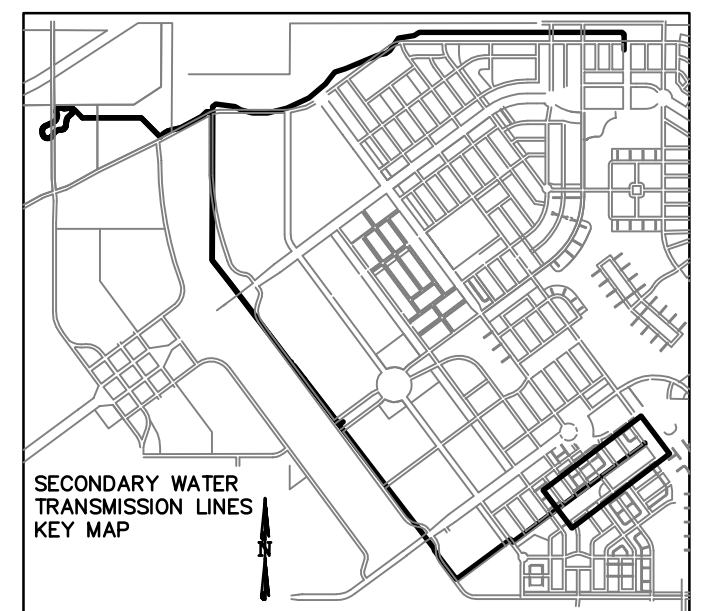
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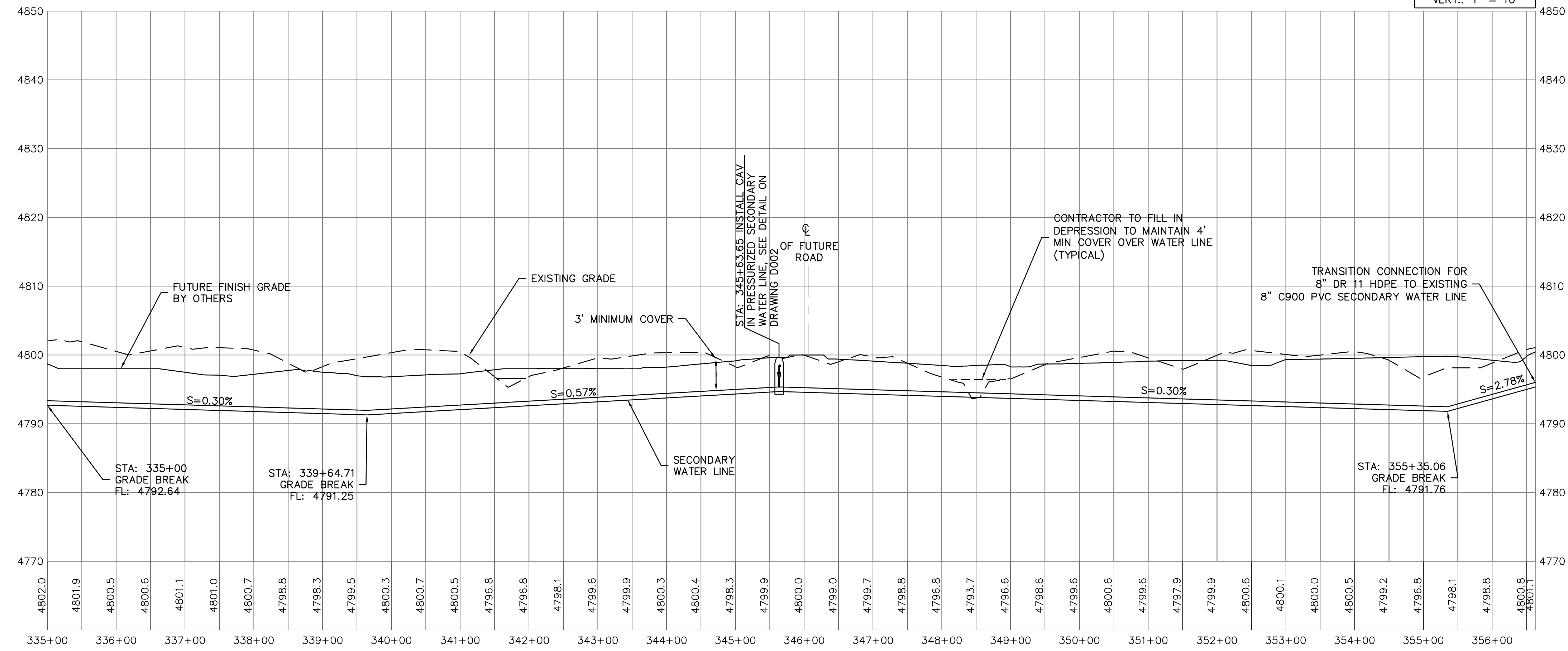
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Legend

Notes

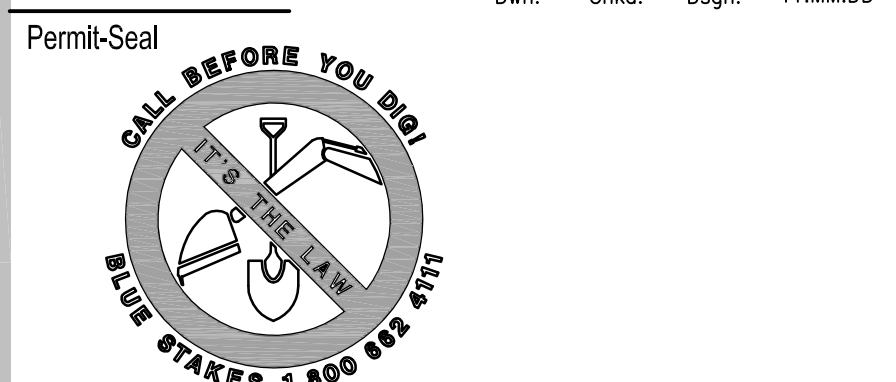


SCALE:
 HORIZ.: 1" = 100'
 VERT.: 1" = 10'



Revision	By	Appd.	YY.MM.DD
2	BID ISSUE	PMD	JRB 04.02.09
1	70% REVIEW	PMD	JRB 03.12.29
Issued	By	Appd.	YY.MM.DD

File Name: V:\C001.DWG CTM JRB PMD 03.08.25
 Dwn. Chkd. Dsgn. YY.MM.DD



Client/Project
KENNECOTT LAND COMPANY
DAYBREAK DEVELOPMENT
 SECONDARY WATER SYSTEM STORAGE
 PONDA AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title
SECONDARY WATER LINE
PLAN AND PROFILE
STA 335+00 TO STA 356+62.67

Project No. 86203003 Scale: 1"=100' H, 1"=10' V
 Drawing No. Sheet Revision

V:\2009\Projects\86203001_KLD_Sunrise_Phase_1_Civil_Site\Drawings\Sheets\Secondary Water\C011.dwg
 2009-08-25 10:03:58 AM By: jrb P: jrb



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 Fax. 801.266.1671
 www.stantec.com

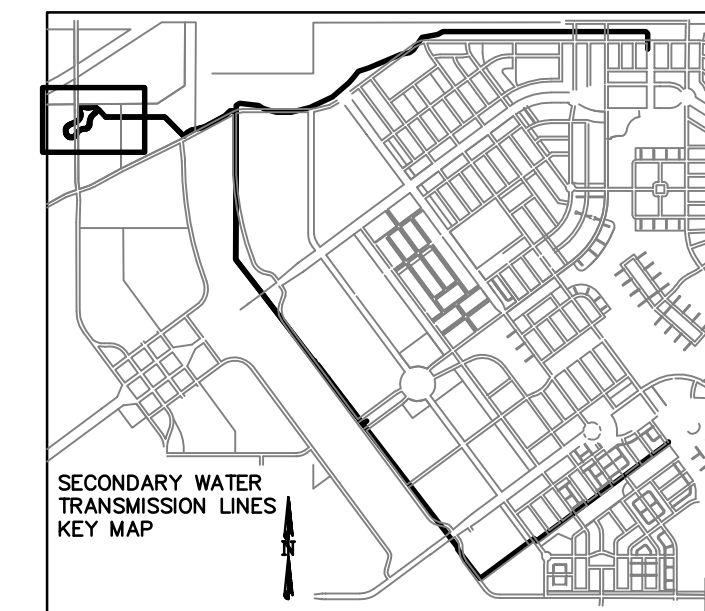
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Revision	By	Appd.	YY.MM.DD
2	BID ISSUE	PMD	JRB 04.02.09
1	70% REVIEW	PMD	JRB 03.12.29
Issued		By	Appd. YY.MM.DD
File Name:		Dwn.	Chkd. Dsgn. YY.MM.DD

Permit-Seal



Client/Project

KENNECOTT LAND COMPANY
 DAYBREAK DEVELOPMENT

SECONDARY WATER STORAGE POND
 AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT U.S.A.

Title

RAW WATER STORAGE
 POND SITE PLAN

Project No.
 86203003

Scale
 1"=50'

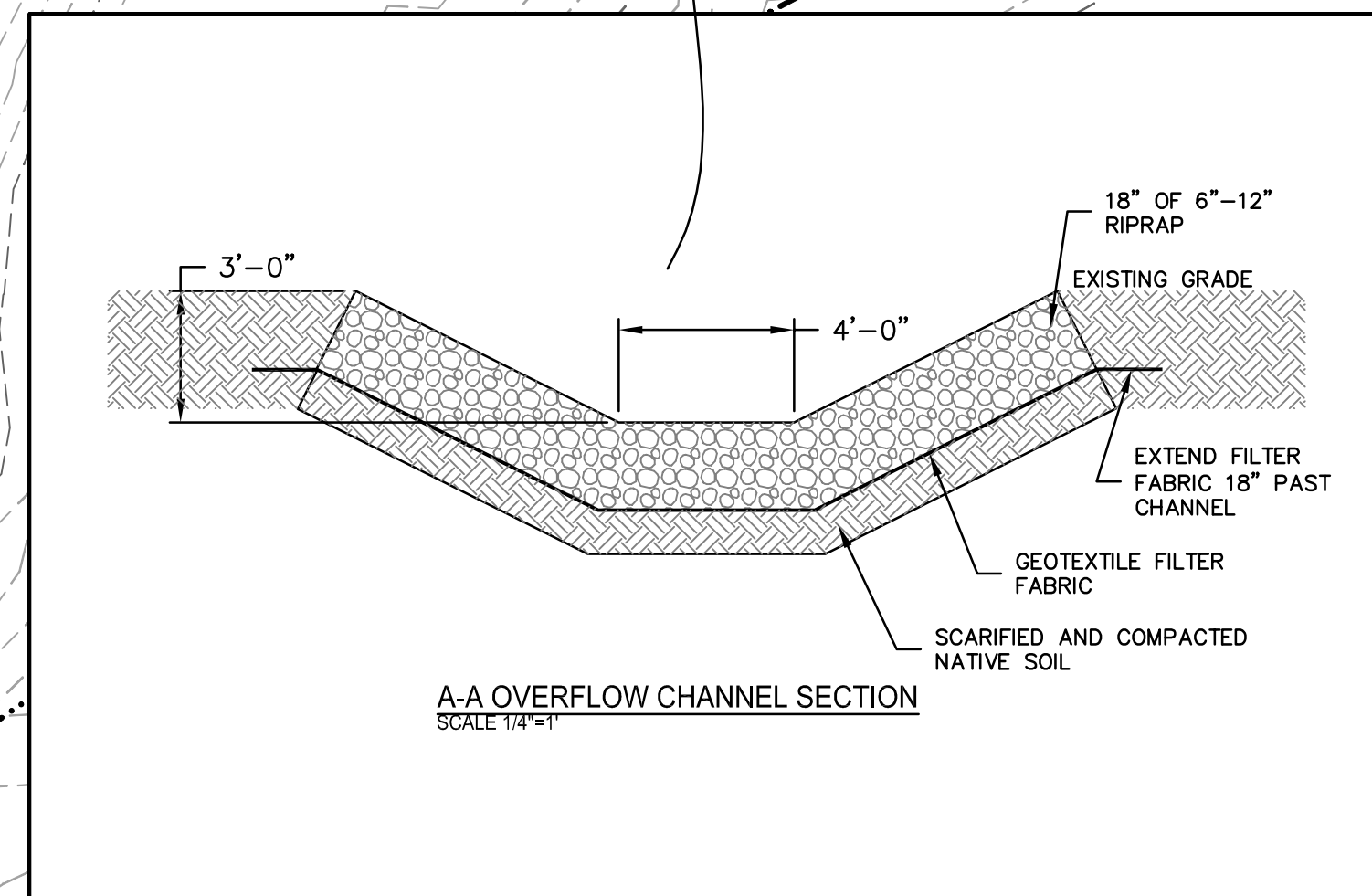
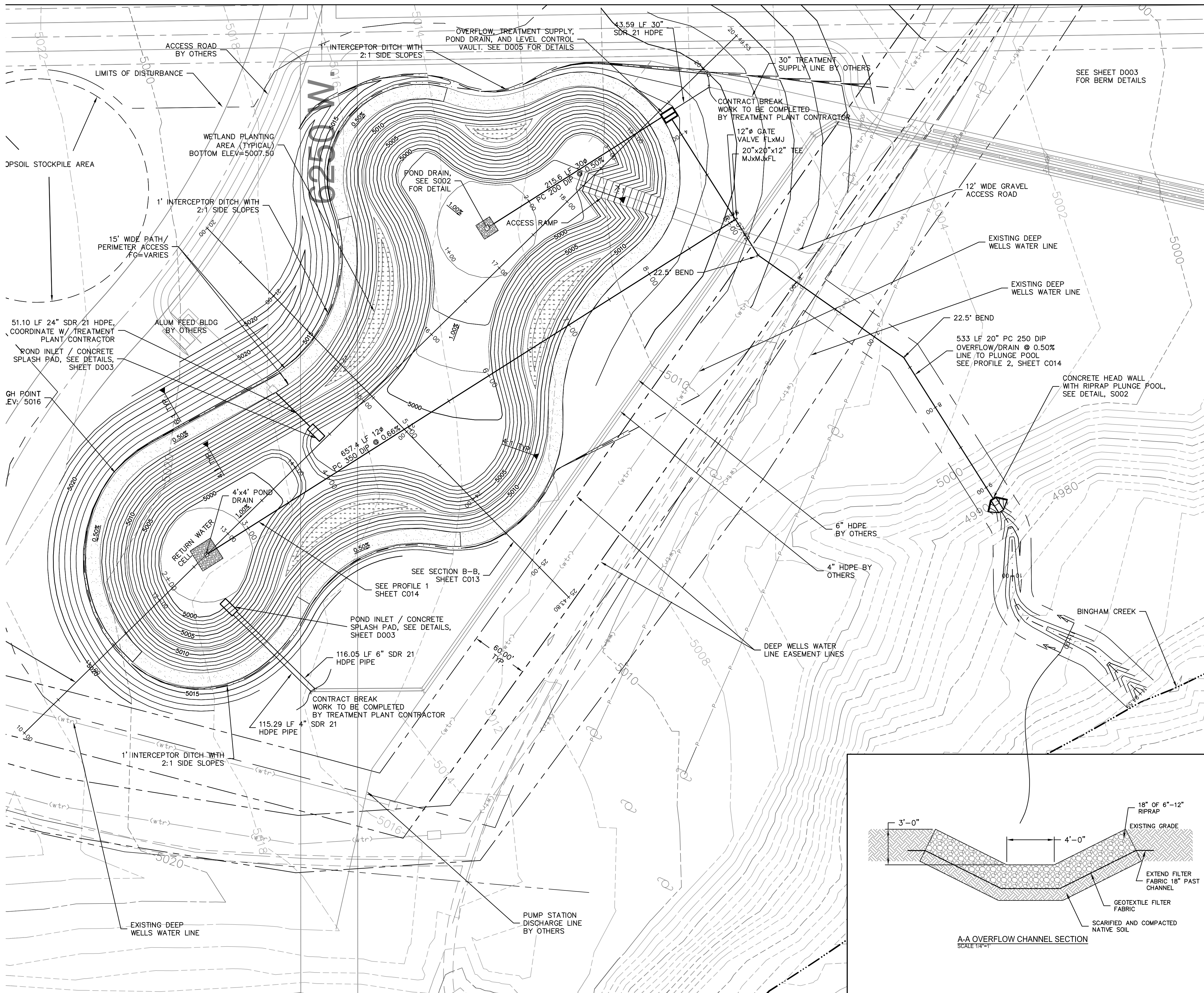
Drawing No.

Sheet
 Revision

C012

16 of 28

0





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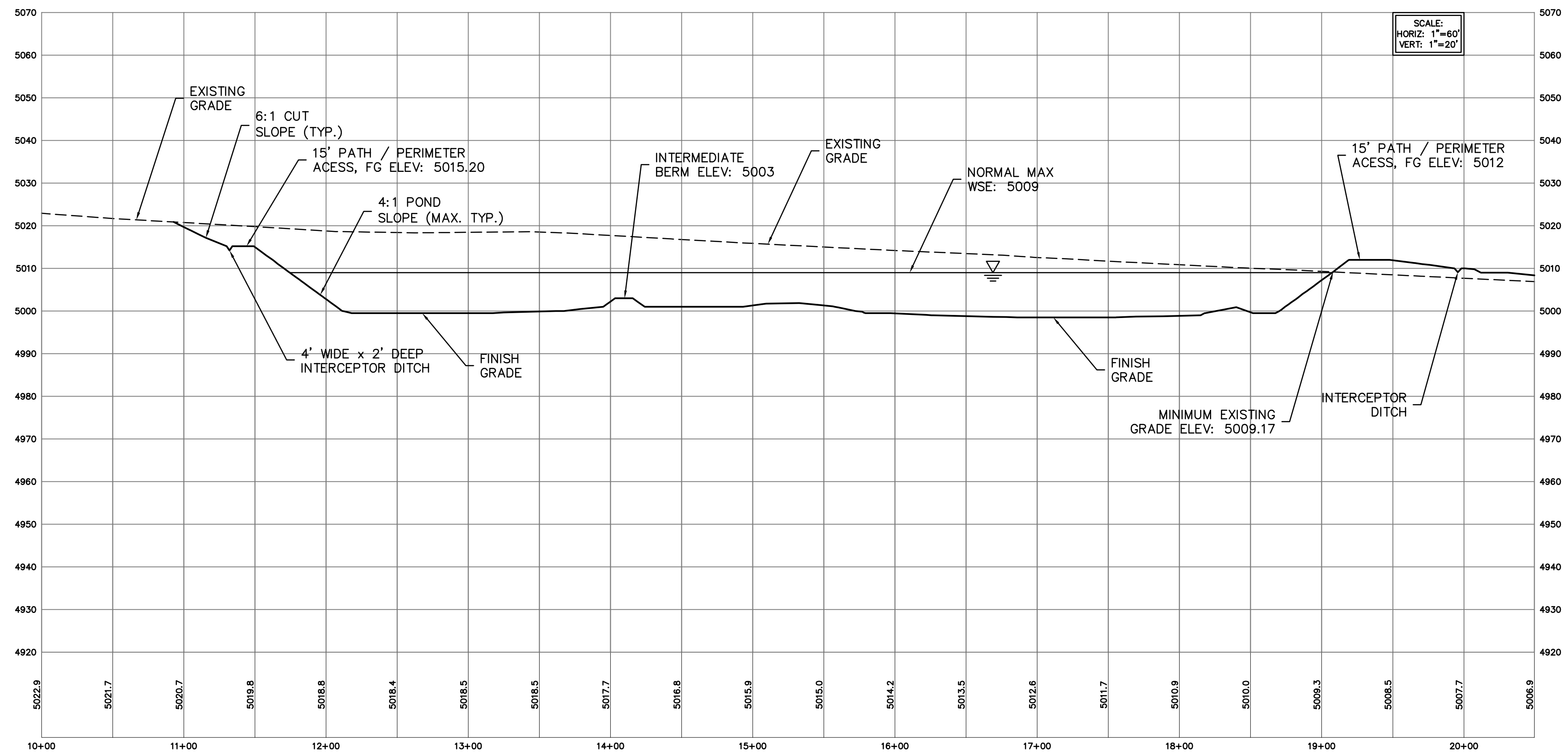
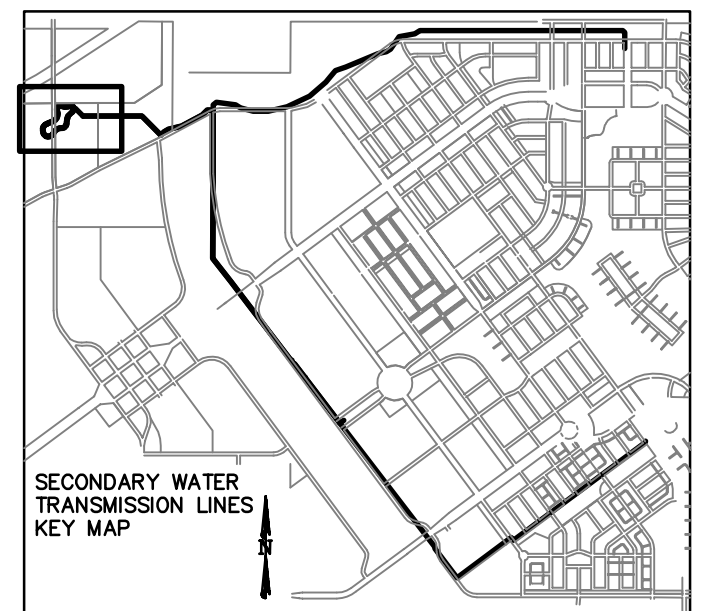
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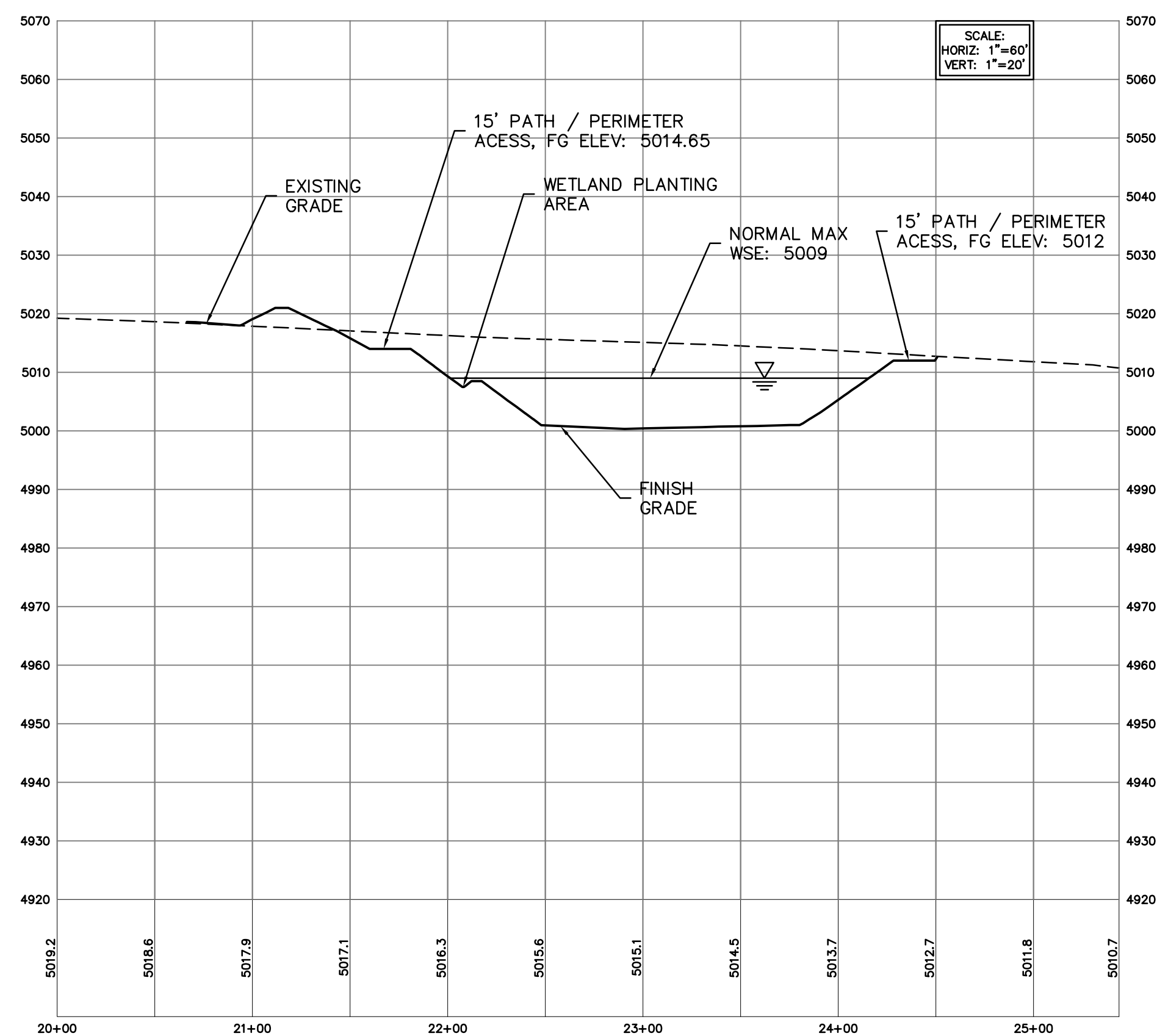
Consultants

Legend

Notes



A-A POND CROSS SECTION C012



B-B POND CROSS SECTION C012

Revision	By	Appd.	YY.MM.DD
2	BID ISSUE	PMD	JRB 04.02.09
Issued	By	Appd.	YY.MM.DD

File Name: C013	PMD	JRB	PMD	04.01.21
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal



Client/Project
 KENNECOTT LAND COMPANY
 DAYBREAK DEVELOPMENT
 SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT U.S.A.

Title
 RAW WATER STORAGE POND
 CROSS SECTIONS

Project No. 86203003	Scale 1:60H 1:20V	Sheet 0	Revision 0
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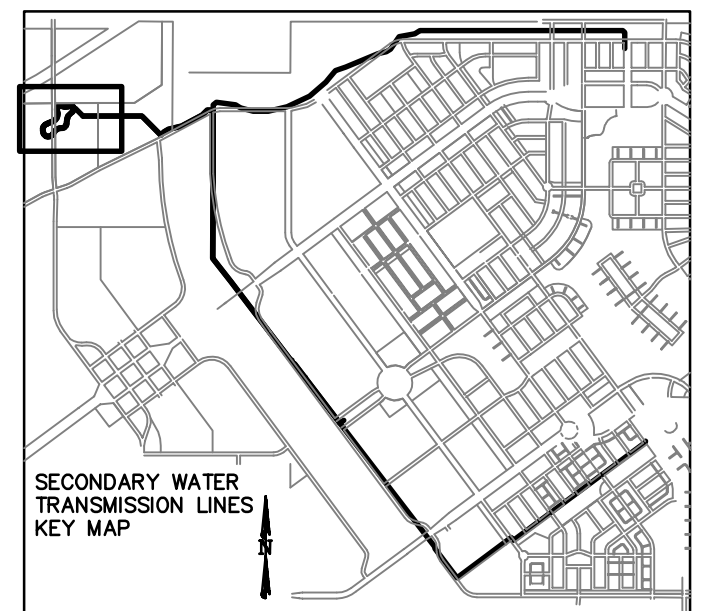
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Notes



Revision	By	Appd.	YY.MM.DD
2	BID ISSUE	PMD	JRB 04.02.09
Issued		By	Appd. YY.MM.DD

File Name: C014	PMD	JRB	PMD	04.01.21
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal



Client/Project

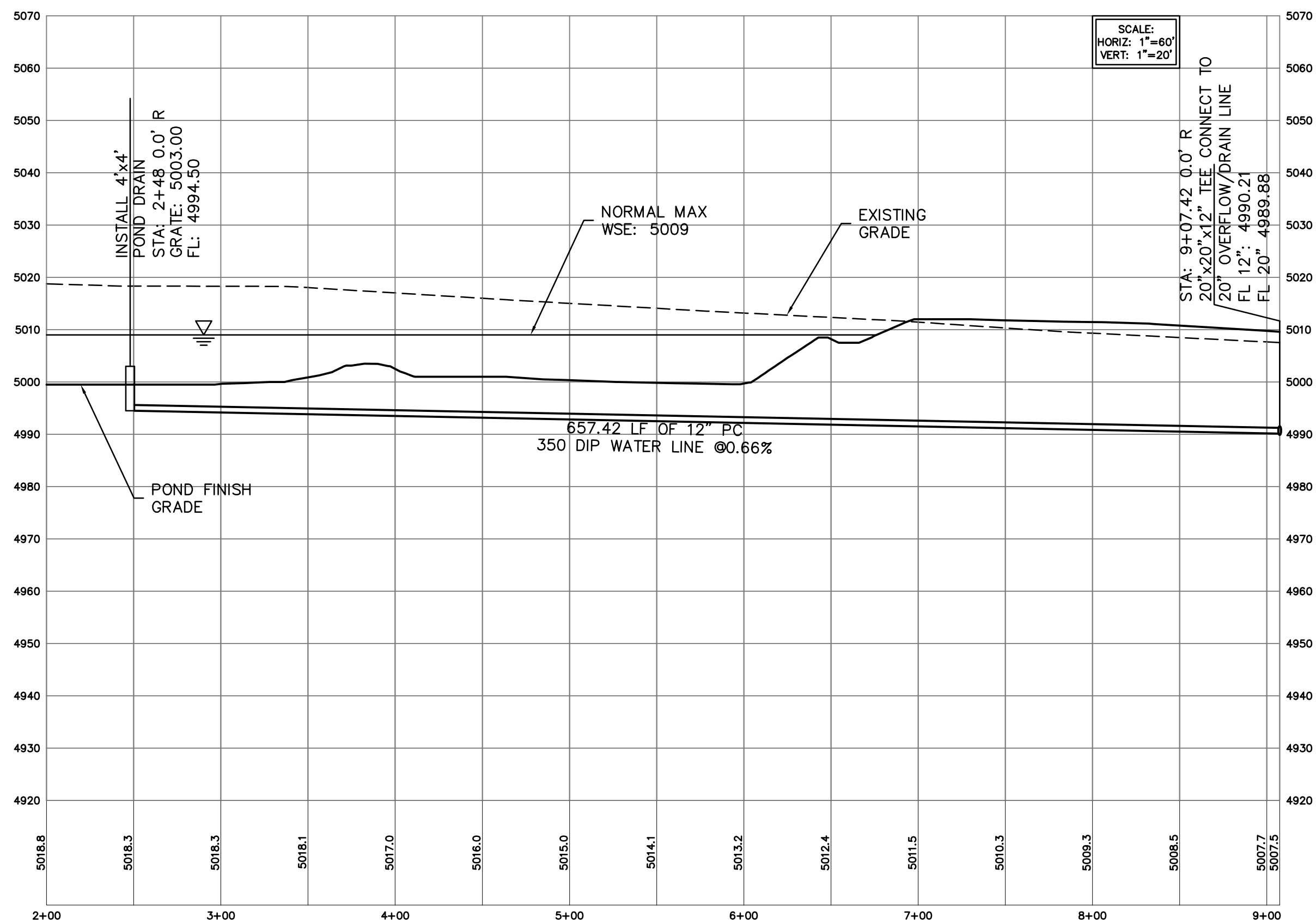
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 DAYBREAK DEVELOPMENT
 SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT U.S.A.

Title

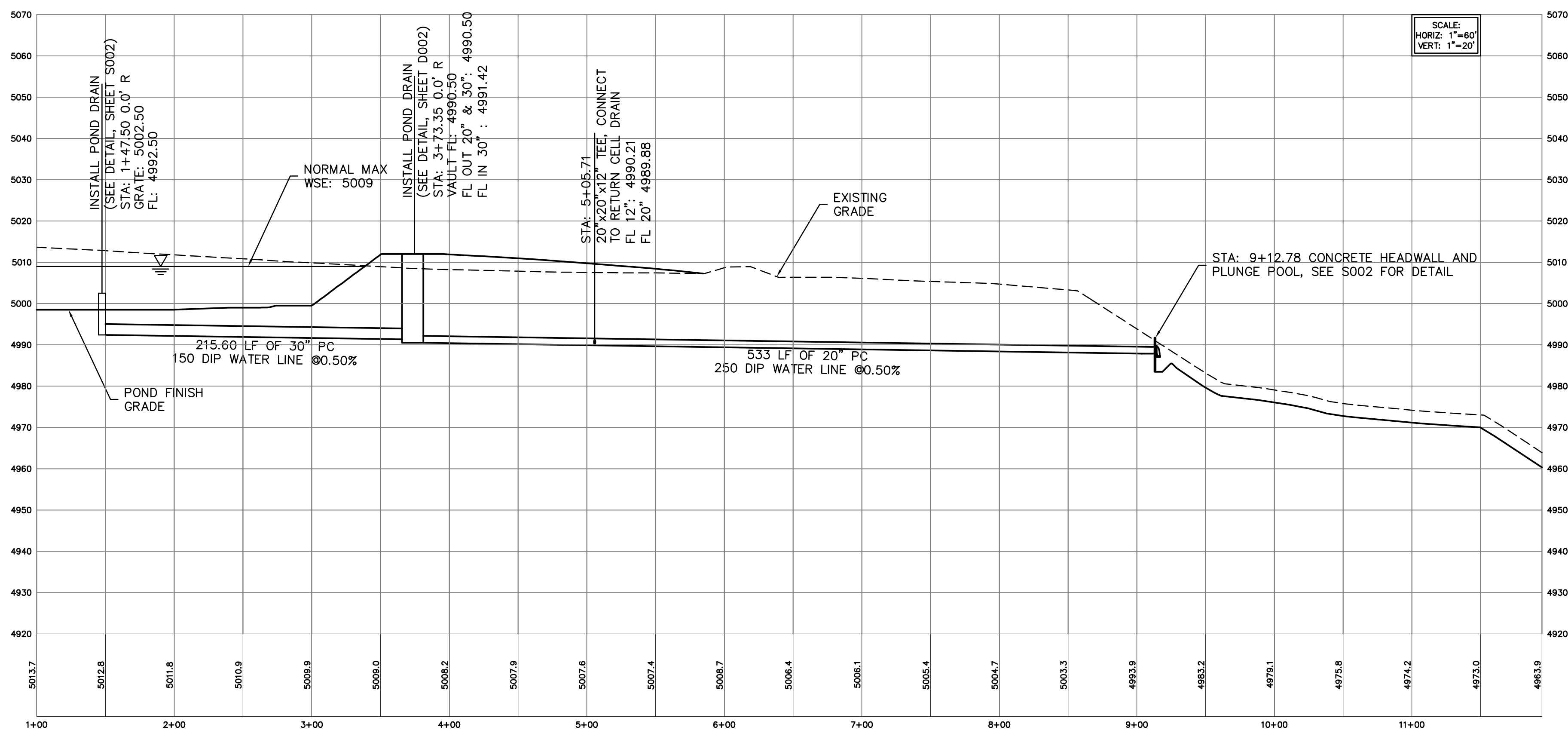
RAW WATER STORAGE POND
 DRAIN / TREATMENT
 SUPPLY PROFILES

Project No. 86203003	Scale 1:60' 0" 60' 90' 120' 1:20' 0" 20' 30' 40'
Drawing No.	Sheet Revision

C014 18 of 28 0



1 PROFILE 1
 C012



2 PROFILE 2
 C012

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 2004-02-10 09:25:39 By: pbadover



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Revision By Appd. YY.MM.DD

2 BID ISSUE PMD JRB 04.02.09

Issued By Appd. YY.MM.DD

File Name: G003.dwg CTM JRB PMD 04.02.02

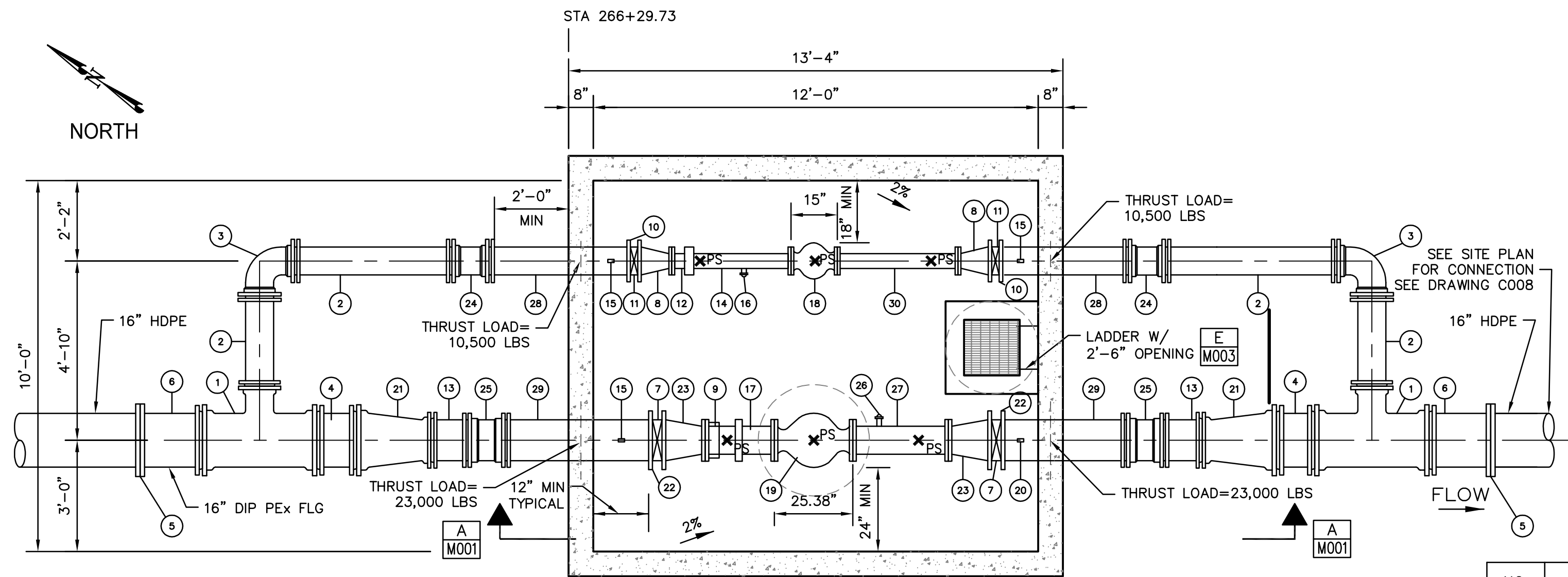
Permit-Seal Dwn. Chkd. Dsgn. YY.MM.DD

Client/Project
 KENNECOTT LAND COMPANY
 DAYBREAK DEVELOPMENT
 SECONDARY WATER SYSTEM SOTARAGE
 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title
 16" PRESSURE REDUCING VAULT
 STATION PLAN & ELEVATION

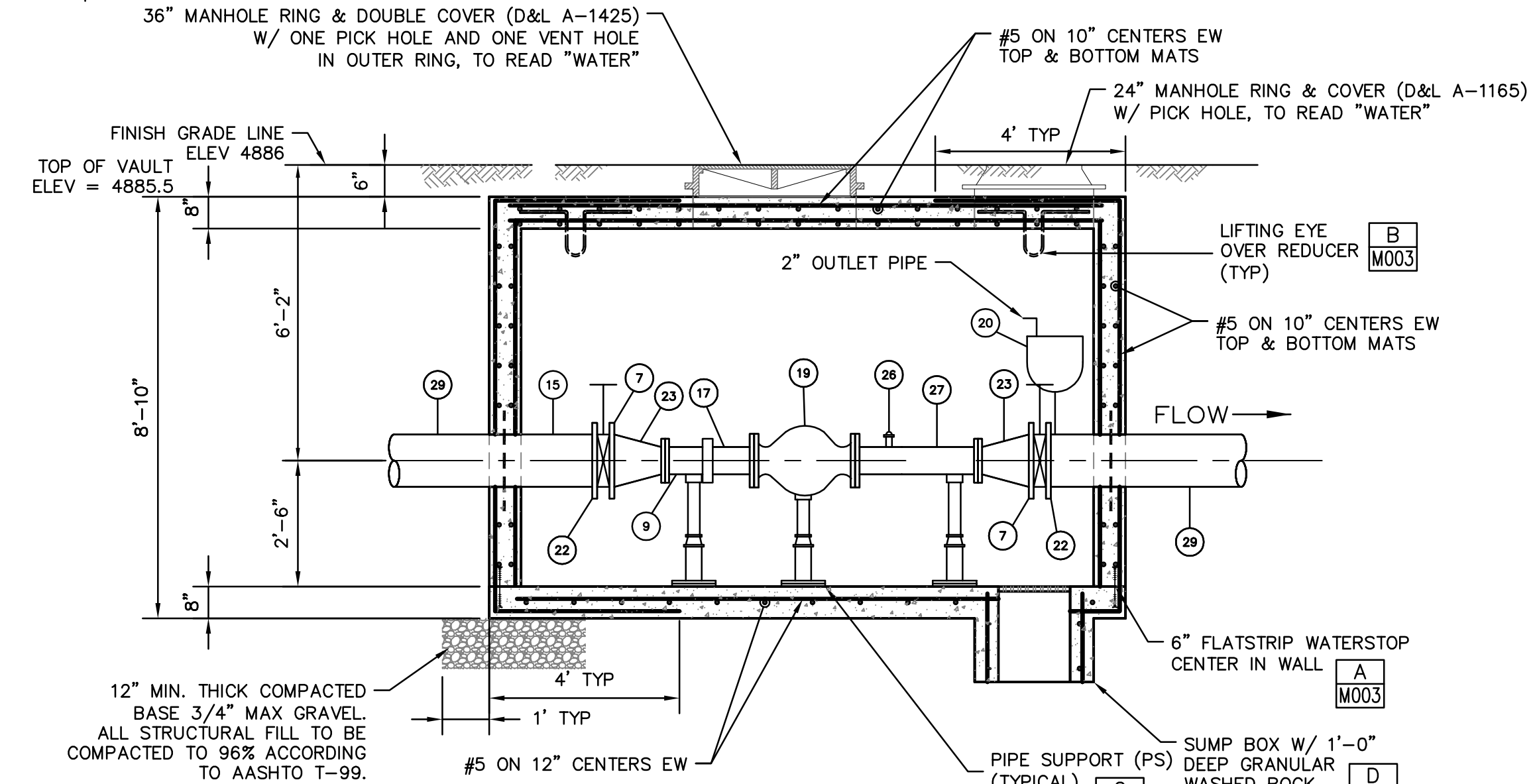
Project No. 86203003 Scale AS NOTED

Drawing No. M001 Sheet 19 of 28 Revision 0



PLAN
 SCALE: 3/8"=1'-0"

NOTE:
 X PS = PIPE SUPPORT
 TEST PRESSURE 200 psi
 INLET PRESSURE = 114 psi
 OUTLET PRESSURE = 68 psi

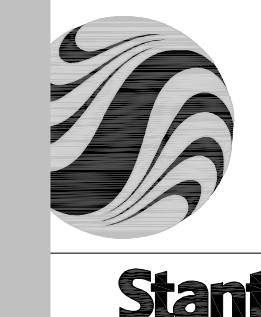


SECTION
 SCALE: 3/8"=1'-0"

NO.	DESCRIPTION	JOINT	SIZE	COMMENTS
1	TEE	MJ	16"x16"x8"	DIP PC 350
2	SPOOL PIECE	PE	8"	DIP PC 350
3	90° ELBOW	MJ	8"	DIP PC 350
4	SPOOL PIECE	PE	16"	DIP PC 350
5	FLANGE ADAPTER	PExFL	16"	HDPE FLANGE ADAPTER
6	SPOOL PIECE	PExFL	16"	DIP PC 350
7	BUTTERFLY VALVE		12"	BRAY 41 OR EQUAL W/ HAND WHEEL ACTUATOR N.O.
8	REDUCER	FL	8"x4"	STEEL STD SCH, 150# FLANGES
9	FLANGE COUPLING ADAPTER		8"	ROMAC FCA 501
10	INSULATING FLANGE GASKET		8"	
11	BUTTERFLY VALVE		8"	BRAY 41 OR EQUAL W/ HAND WHEEL ACTUATOR N.O.
12	FLANGE COUPLING ADAPTER		4"	ROMAC STYLE FCA 501 W/ LOCK PIN
13	SPOOL	PE	12"	DIP PC 350
14	SPOOL PIECE	FLxPE	4"	STEEL STD SCH
15	PRESSURE GAUGE W/BALL VALVE	THD	3/4"	200 PSI-SEE DETAIL G/M003
16	BRASS TEST NIPPLE W/THD CAP	THD	2"	STL 2" THREAD-O-LET, STL NIPPLE, DIELECTRIC COUPLER, BRASS NIPPLE & CAP
17	SPOOL PIECE	FLxPE	8"	STEEL STD SCH
18	PRESSURE REDUCING VALVE	FL	4"	CLA-VAL MODEL 90-48 WITH LOW FLOW BYPASS W/ SS TRIM, TUBES, & FITTINGS GLOBE, PC 250, DUCTILE IRON 150 LB FLANGE 15 TO 75 PSI, OPTIONS A, B, C, D, S, & Y
19	PRESSURE REDUCING VALVE	FL	8"	CLA-VAL MODEL 90-01 W/ SS TRIM, TUBES, & FITTINGS GLOBE, PC 250, DUCTILE IRON 150 LB FLANGE 15 TO 75 PSI, OPTIONS A, B, C, D, S, & Y
20	AIR RELEASE ASSEMBLY	THD	2"	SEE DETAIL F SHEET M003
21	REDUCER	MJ	16"x12"	DIP PC 350
22	INSULATING FLANGE GASKET		12"	
23	REDUCER	FL	12"x8"	STEEL STD SCH, 150# FLANGES
24	LONG SLEEVE	MJ	8"	DIP PC 350
25	LONG SLEEVE	MJ	12"	DIP PC 350
26	BRASS TEST NIPPLE W/THD CAP	THD	4"	STL 4" THREAD-O-LET, STL NIPPLE, DIELECTRIC COUPLER, BRASS NIPPLE & CAP
27	SPOOL PIECE	FLxFL	8"	STEEL STD SCH
28	SPOOL W/ THRUST RING	PExFL	8"	125 LB FL, DIP PC 350
29	SPOOL W/ THRUST RING	PExFL	12"	125 LB FL, DIP PC 350
30	SPOOL	FLxFL	4"	STEEL STD SCH

- NOTES:
- GRADE FLOOR TO SUMP BOX WITH 2% SLOPE TOWARD SUMP.
 - PRESSURE GAUGE RISERS TO BE 3/4" WITH 3/4" BALL VALVE, OR AS NOTED ON DRAWING.
 - VALVE VAULT PIPING AND FITTINGS SHALL BE RATED FOR DESIGN PRESSURE OF 150 PSI, 200 PSI TEST PRESSURE, AND BE STEEL WITH EPOXY LINING AND COATING. LINING TO BE NEMEC POTAPOX 12 TO 16 MILS DFT, SSPC SP5 BLAST AND CURED PER MANUFACTURERS REQUIREMENTS BEFORE DELIVERY TO JOB SITE. ALL EXTERIOR SURFACES OF PIPE AND FITTINGS SHALL RECEIVE TWO FINISH COATS OF AMERLOCK 400 EPOXY COATING, BL-4 LIGHT BLUE, OR APPROVED EQUAL. FOR BURIED PIPING USE CADMIUM PLATED FLANGE BOLTS AND NUTS. USE A LOW ALLOY CORROSION RESISTANT STEEL FOR MECHANICAL JOINT TEE BOLTS AND NUTS.
 - APPLY DAMPPROOF SEALER TO EXTERIOR OF CONCRETE VAULT.
 - CONCRETE VAULT IS DESIGNED FOR HS20 HIGHWAY LOADING, CONTRACTOR TO PROVIDE REINFORCEMENT DRAWINGS. WALL SPOOLS TO BE CAST IN PLACE, 12" CAPABLE OF RESTRAINING 23,000 LBS, 8" CAPABLE OF RESTRAINING 10,500 LBS.
 - TOLERANCE DIMENSIONS ±1/2" EXCEPT AS NOTED.
 - COORDINATE CONNECTION OF 16 INCH DIAMETER SECONDARY WATERLINE WITH SOUTH JORDAN CITY.
 - NOTIFY OWNER 4 DAYS IN ADVANCE OF MAKING CONNECTION TO 16-INCH DIAMETER SECONDARY WATER LINE.
 - ALL BURIED DUCTILE IRON PIPE AND FITTINGS TO HAVE POLYETHYLENE ENCASEMENT. MINIMUM 8-MIL POLYETHYLENE SHEETS IN ACCORDANCE WITH AWWA C-105. DUCT TAPE SHALL BE USED TO SECURE POLYETHYLENE SHEETS TO THE PIPE.
 - ALL BENDS, TEES AND OTHER FITTINGS IN WATERLINE TO BE SUPPORTED WITH THRUST BLOCKS AND RESTRAINED WITH MEGA-LUC FOLLOWERS AT JOINTS. SLEEVES WILL NOT HAVE MEGA-LUC FOLLOWERS.
 - ALL PIPE, VALVES AND FITTINGS TO COMPLY WITH AWWA & NSF61 STANDARDS.
 - CONCRETE REQUIRED TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
 - CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, ROAD CUT AND BUILDING PERMITS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "BLUE STAKES" 48 HOURS PRIOR TO EXCAVATING.
 - CONTRACTOR RESPONSIBLE FOR FLAGGING, CAUTION SIGNS, AND PUBLIC SAFETY ON ALL ADJACENT STREETS AND CONSTRUCTION SITE.
 - CONTRACTOR RESPONSIBLE FOR PUBLIC SAFETY AND OSHA SAFETY STANDARDS.
 - NATIVE BACKFILL SHALL BE COMPACTED TO AVERAGE 96% DENSITY WITH NO DENSITY LESS THAN 92% OF STANDARD PROCTOR. DENSITY ACCORDING TO ASHTO-99.
 - CONTRACTOR TO SPACE UTILITIES TO PROVIDE MINIMUM DISTANCES AS REQUIRED BY LOCAL, COUNTY, STATE AND INDIVIDUAL UTILITY CODES.
 - ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SOUTH JORDAN STANDARDS.
 - ALL WATER LINES SHALL BE A MINIMUM OF 3 FEET BELOW FINISHED GRADE TO TOP OF PIPE UNLESS OTHERWISE NOTED.
 - COMPLETED WATERLINES TO BE FLUSH PER SOUTH JORDAN STANDARDS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILL AND COMPACTION OF UTILITY TRENCHES TO LEVEL OF FINISH GRADE.
 - ALL PIPES PASSING THROUGH WALLS TO BE AWWA C151 CL DIP WITH THRUST COLLARS.
 - ALL GASKETS BETWEEN FLANGES SHALL BE RED RUBBER.
 - PROJECT SHALL CONFORM TO PROJECT SPECIFICATIONS.

V:\S08670\01\01\05\02\001_KLC_Surveys_Phase_1_Off-Site\DWG\Sheet\Secondary Water\M001.dwg
 2014-02-10 04:32PM By: pddawson



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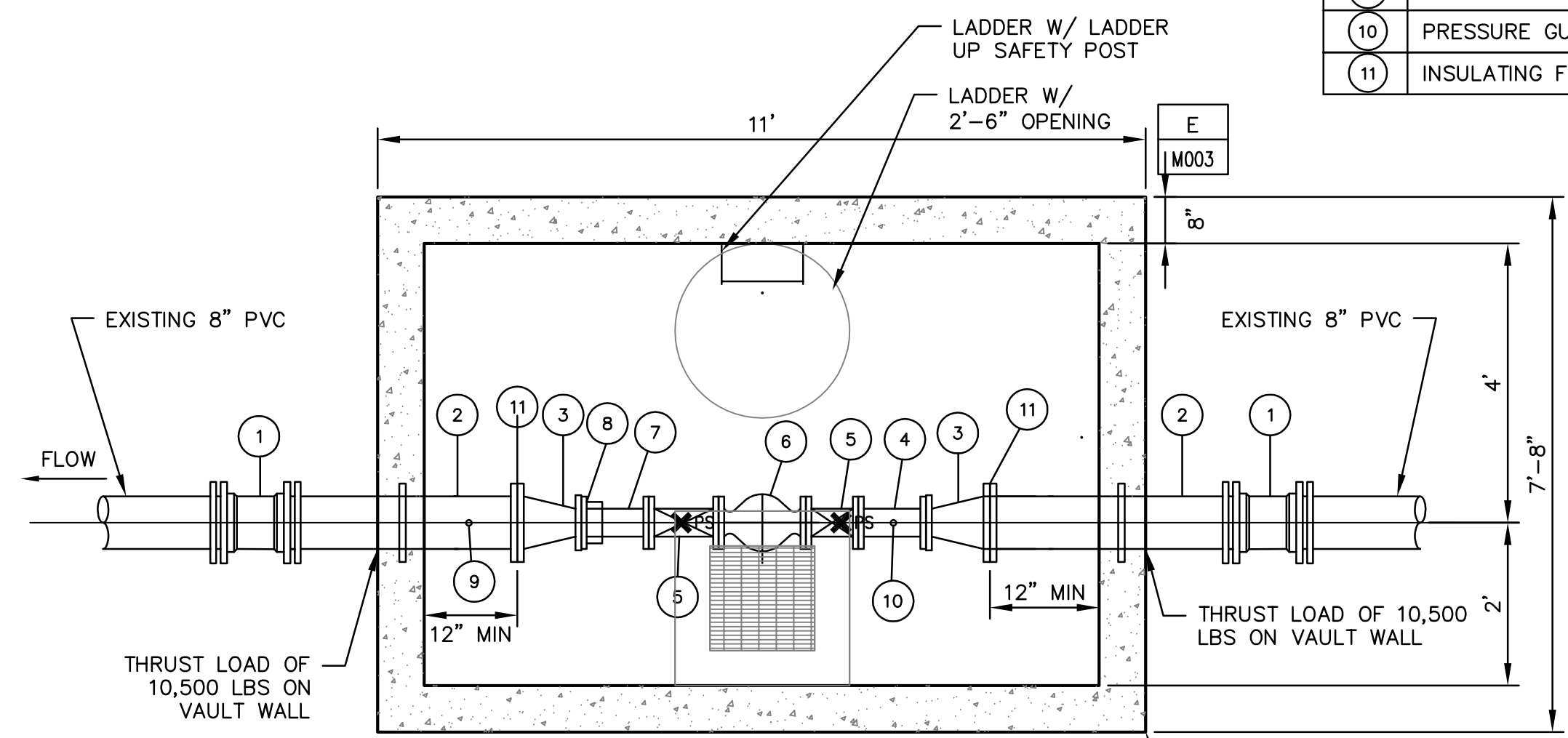
NO.	DESCRIPTION	JOINT	SIZE	COMMENTS
1	LONG SLEEVE	MJ	8"	DIP PC 350
2	WALL SPOOL W/ THRUST RING	PExFL	8"	DIP PC 350
3	REDUCER	FLxFL	8"x4"	STEEL STD SCH, 150# FLGS
4	SPOOL PIECE	FLxFL	4"	STEEL STD SCH
5	GATE VALVE	FLxFL	4"	RESILIENT SEAT NRS AWWA C509 MUELLER W/ HAND WHEEL ACTUATORS
6	PRESSURE REDUCING VALVE	FLxFL	4"	CLA-VAL PRESSURE REDUCING VALVE MODEL 90-48 SS. TUBES, FITTINGS, AND TRIM (GLOBE VALVE, DUCTILE IRON PC 250 150 LB FLG, 15 TO 75 PSI ADJUSTMENT OPTIONS A, B, C, D, S, & Y
7	SPOOL	FLxPE	4"	STD SCH STEEL
8	FLANGE COUPLING ADAPTER	FL	4"	ROMAC STYLE 501 W/ LOCK PIN
9	AIR RELEASE ASSEMBLY	THD	2"	SEE DETAIL F SHEET M003
10	PRESSURE GAUGE W/BALL VALVE	THD	3/4"	SEE DETAIL G SHEET M003
11	INSULATING FLANGE GASKET		8"	

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Legend

Notes

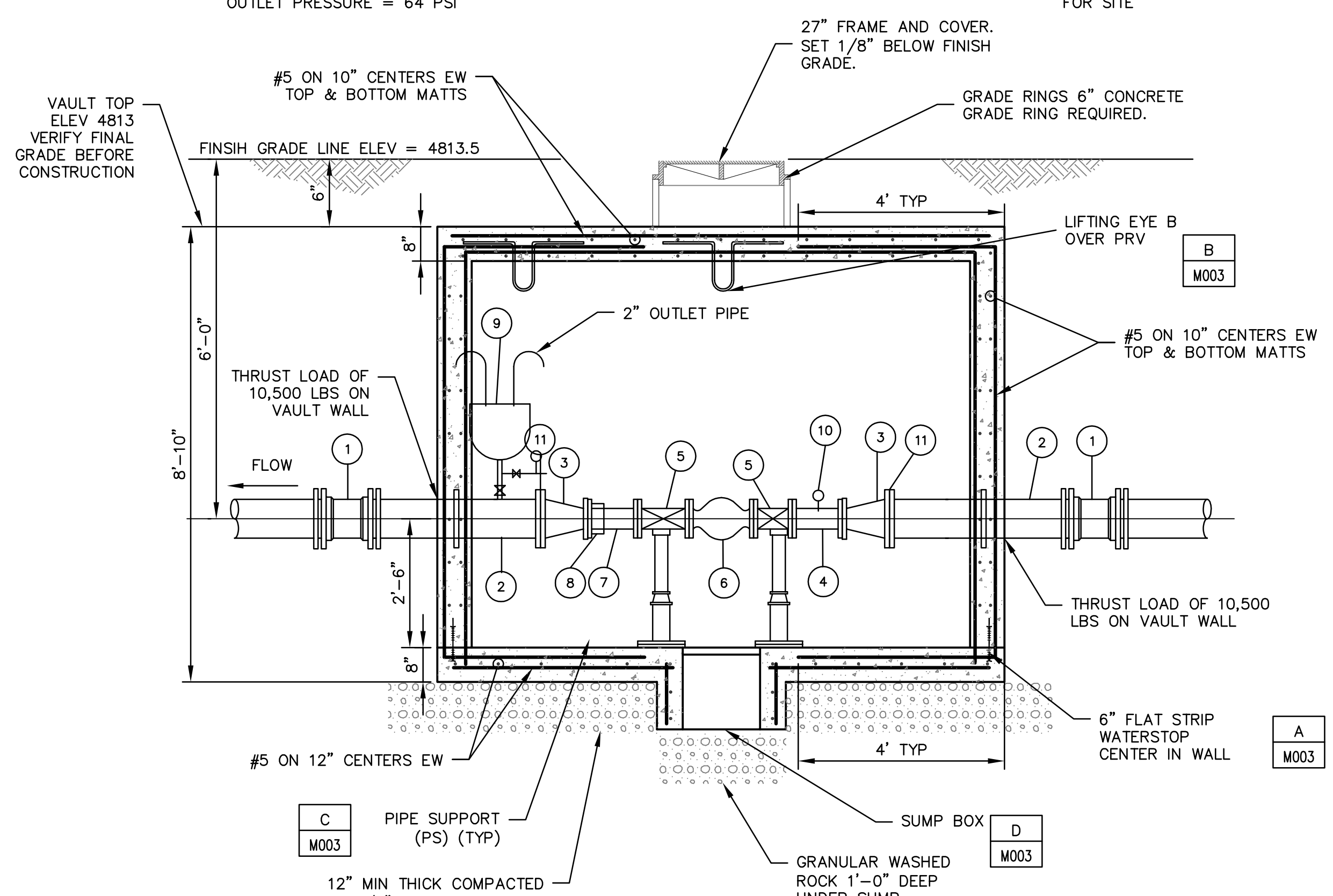


NOTE:
 X PS = PIPE SUPPORT
 TEST PRESSURE = 200 PSI
 INLET PRESSURE = 100 PSI
 OUTLET PRESSURE = 64 PSI

PLAN
 SCALE: 1/2"=1'-0"

NOTES:

- GRADE FLOOR TO SUMP BOX WITH 2% SLOPE TOWARD SUMP.
- PRESSURE GAUGE RISERS TO BE 3/4" WITH 3/4" BALL VALVE, OR AS NOTED ON DRAWING.
- VALVE VAULT PIPING AND FITTINGS SHALL BE RATED FOR DESIGN PRESSURE OF 150 PSI, 200 PSI TEST PRESSURE, AND BE STEEL WITH EPOXY LINING AND COATING. LINING TO BE TMEC POTAPOX 12 TO 16 MILS DFT, SSP5 SP5 BLAST AND CURED PER MANUFACTURERS REQUIREMENTS BEFORE DELIVERY TO JOB SITE. ALL EXTERIOR SURFACES OF PIPE AND FITTINGS SHALL RECEIVE TWO FINISH COATS OF AMERLOCK 400 EPOXY COATING, BL-4 LIGHT BLUE, OR APPROVED EQUAL. FOR BURIED PIPING USE CADMIUM PLATED FLANGE BOLTS AND NUTS. USE A LOW ALLOY CORROSION RESISTANT STEEL FOR MECHANICAL JOINT TEE BOLTS AND NUTS.
- APPLY DAMPROOF SEALER TO EXTERIOR OF CONCRETE VAULT.
- CONCRETE VAULT IS DESIGNED FOR HS20 HIGHWAY LOADING. CONTRACTOR TO PROVIDE REINFORCEMENT DRAWINGS. WALL SPOOLS TO BE CAST IN PLACE, 8" CAPABLE OF RESTRAINING 10,500 LBS.
- TOLERANCE DIMENSIONS ±1/2" EXCEPT AS NOTED.
- COORDINATE CONNECTION OF 8 INCH DIAMETER SECONDARY WATERLINE WITH SOUTH JORDAN CITY.
- NOTIFY OWNER 4 DAYS IN ADVANCE OF MAKING CONNECTION TO 8-INCH DIAMETER SECONDARY WATER LINE.
- ALL BURIED DUCTILE IRON PIPE AND FITTINGS TO HAVE POLYETHYLENE ENCASUREMENT. MINIMUM 8-MIL POLYETHYLENE SHEETS IN ACCORDANCE WITH AWWA C-105. DUCT TAPE SHALL BE USED TO SECURE POLYETHYLENE SHEETS TO THE PIPE.
- ALL BENDS, TEES AND OTHER FITTINGS IN WATERLINE TO BE SUPPORTED WITH THRUST BLOCKS AND RESTRAINED WITH MEGA-LUG FOLLOWERS AT JOINTS. SLEEVES WILL NOT HAVE MEGA-LUG FOLLOWERS.
- ALL PIPE, VALVES AND FITTINGS TO COMPLY WITH AWWA & NSF61 STANDARDS.
- CONCRETE REQUIRED TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, ROAD CUT AND BUILDING PERMITS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "BLUE STAKES" 48 HOURS PRIOR TO EXCAVATING.
- CONTRACTOR RESPONSIBLE FOR FLAGGING, CAUTION SIGNS, AND PUBLIC SAFETY ON ALL ADJACENT STREETS AND CONSTRUCTION SITE.
- CONTRACTOR RESPONSIBLE FOR PUBLIC SAFETY AND OSHA SAFETY STANDARDS.
- NATIVE BACKFILL SHALL BE COMPACTED TO AVERAGE 96% DENSITY WITH NO DENSITY LESS THAN 92% OF STANDARD PROCTOR. DENSITY ACCORDING TO ASHTO-99.
- CONTRACTOR TO SPACE UTILITIES TO PROVIDE MINIMUM DISTANCES AS REQUIRED BY LOCAL, COUNTY, STATE AND INDIVIDUAL UTILITY CODES.
- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SOUTH JORDAN STANDARDS.
- ALL WATER LINES SHALL BE A MINIMUM OF 4 FEET BELOW FINISHED GRADE TO TOP OF PIPE UNLESS OTHERWISE NOTED.
- COMPLETED WATERLINES TO BE FLUSHED PER SOUTH JORDAN STANDARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILL AND COMPACTION OF UTILITY TRENCHES TO LEVEL OF FINISH GRADE.
- ALL PIPES PASSING THROUGH WALLS TO BE AWWA C151 CL DIP WITH THRUST COLLARS.
- ALL GASKETS BETWEEN FLANGES SHALL BE RED RUBBER.
- PROJECT SHALL CONFORM TO PROJECT SPECIFICATIONS.



12" MIN THICK COMPACTED BASE 3/4" MAXIMUM GRAVEL. ALL STRUCTURAL FILL TO BE COMPACTED TO 96% ACCORDING TO AASHTO T-99

SECTION
 SCALE: 1/2"=1'-0"

Revision	By	Appd.	YY.MM.DD
2	BID ISSUE	FMD	JRB 04.02.09
	Issued	By	Appd. YY.MM.DD

File Name:	CTM	JRB	FMD	04.02.09
G003.dwg	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Client/Project
 KENNECOTT LAND COMPANY
 DAYBREAK DEVELOPMENT
 SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title
 8" PRESSURE REDUCING VAULT
 STATION PLAN & ELEVATION

Project No.	Scale	
86203003	AS NOTED	
Drawing No.	Sheet	Revision
M002	20 of 28	0

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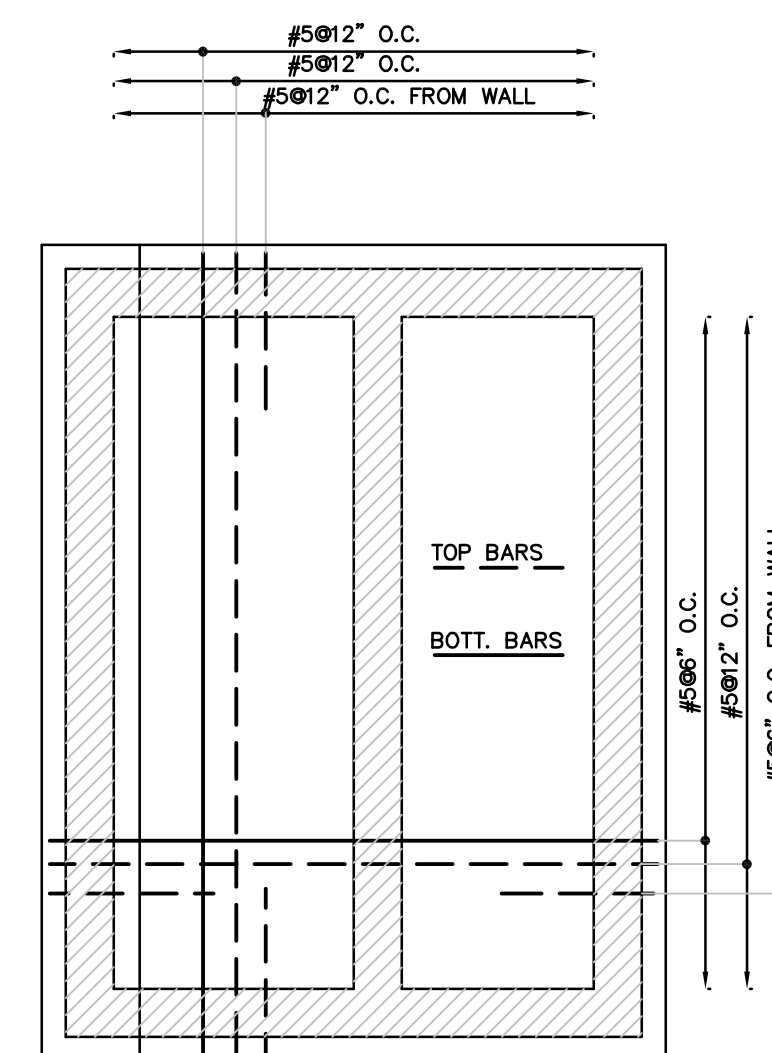
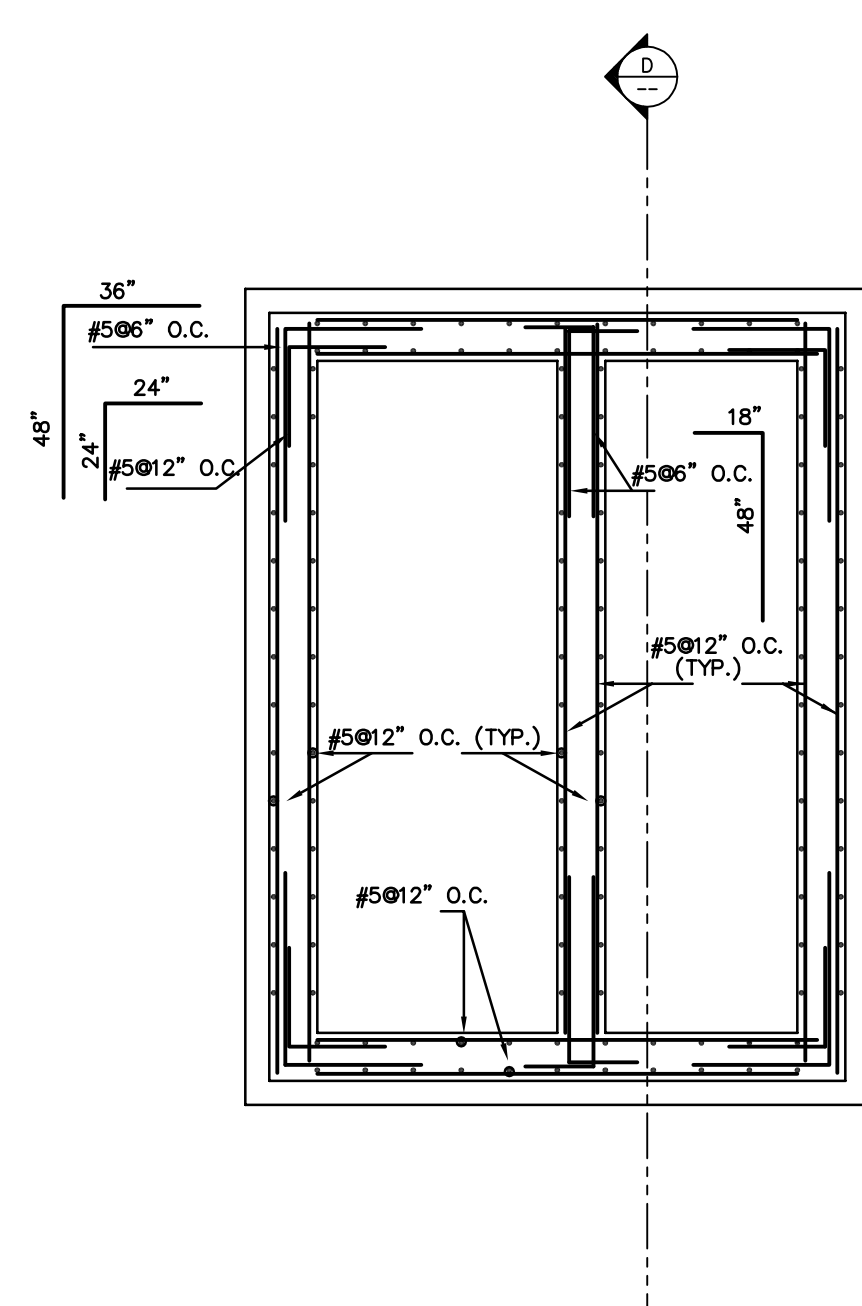
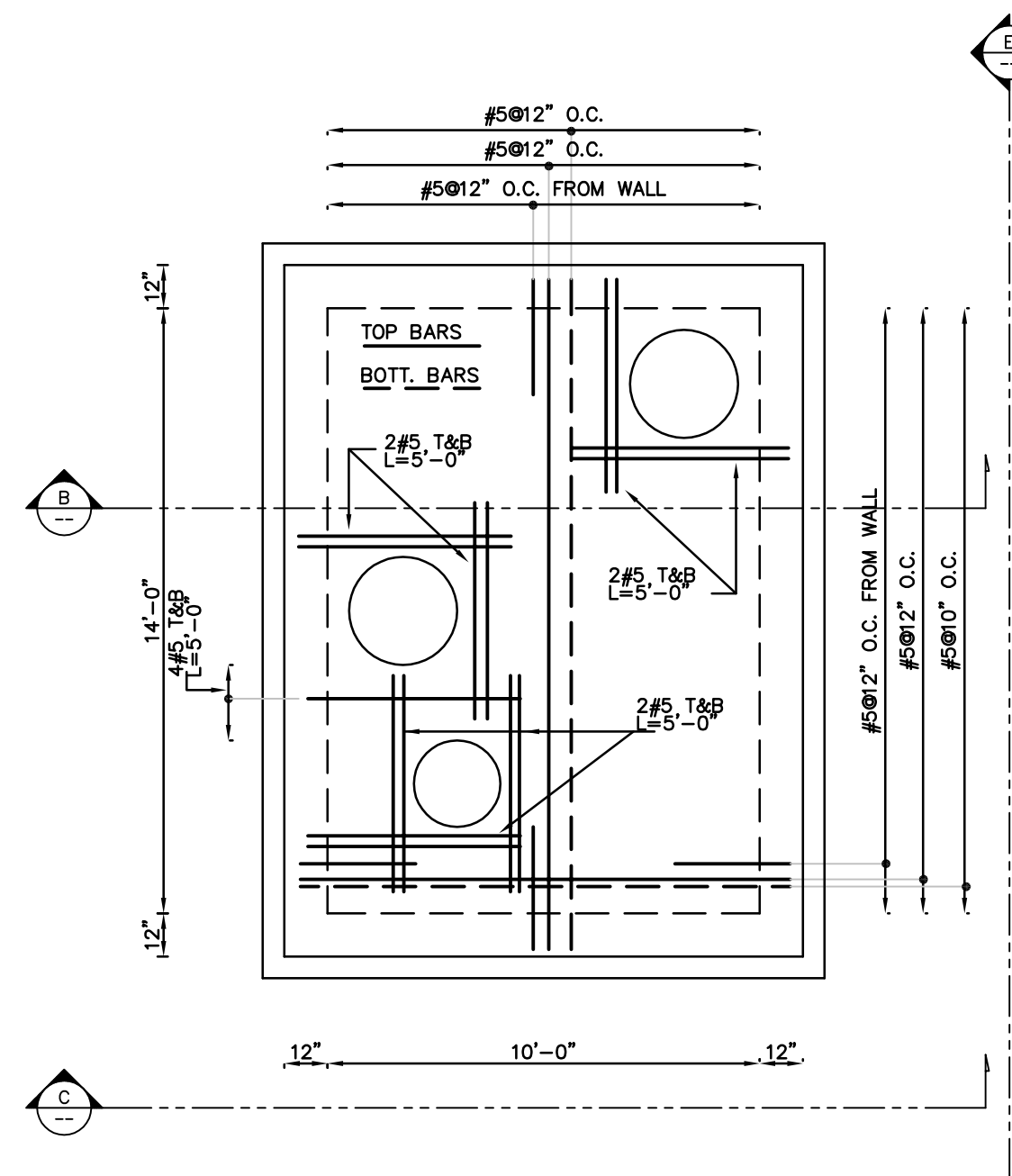
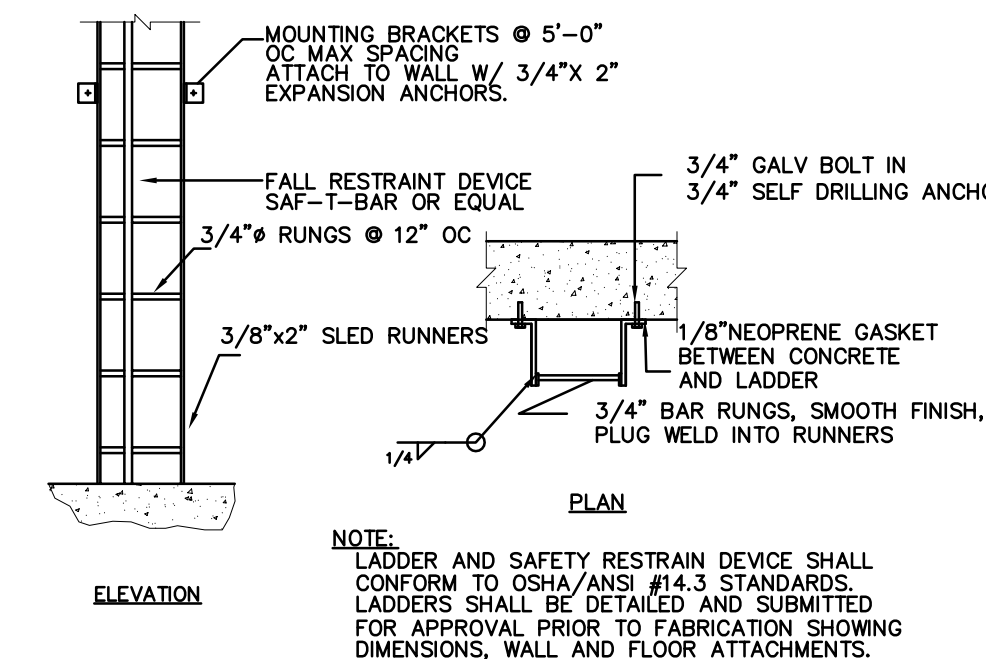
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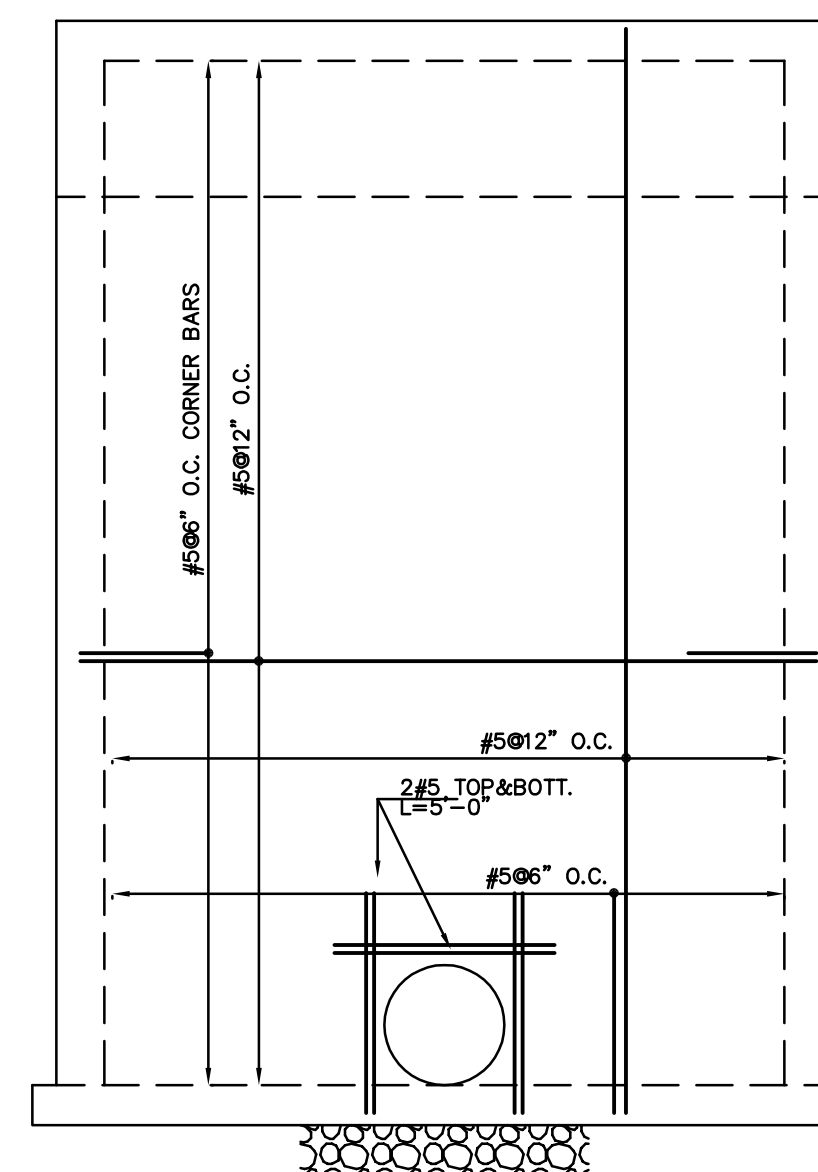
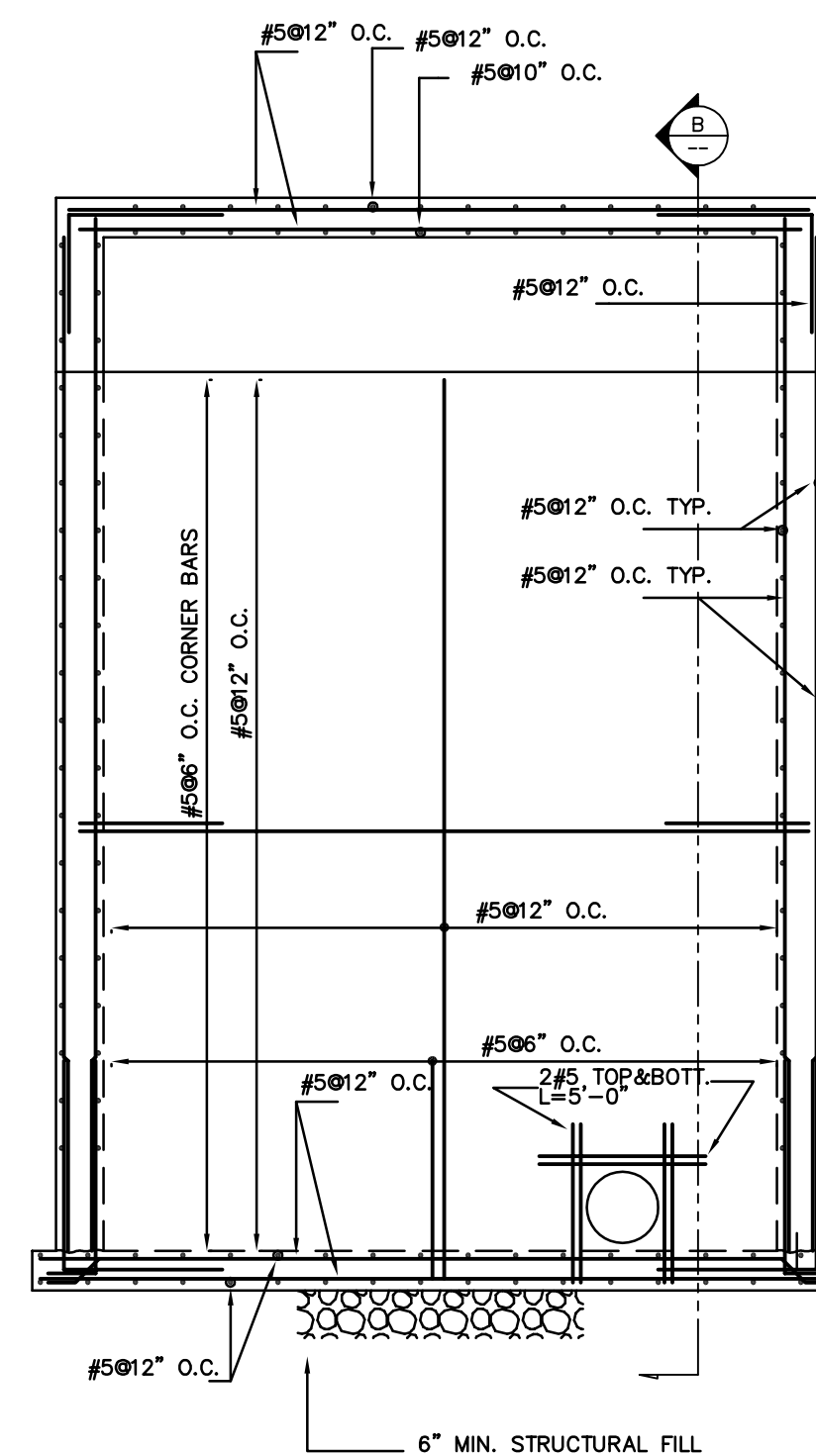
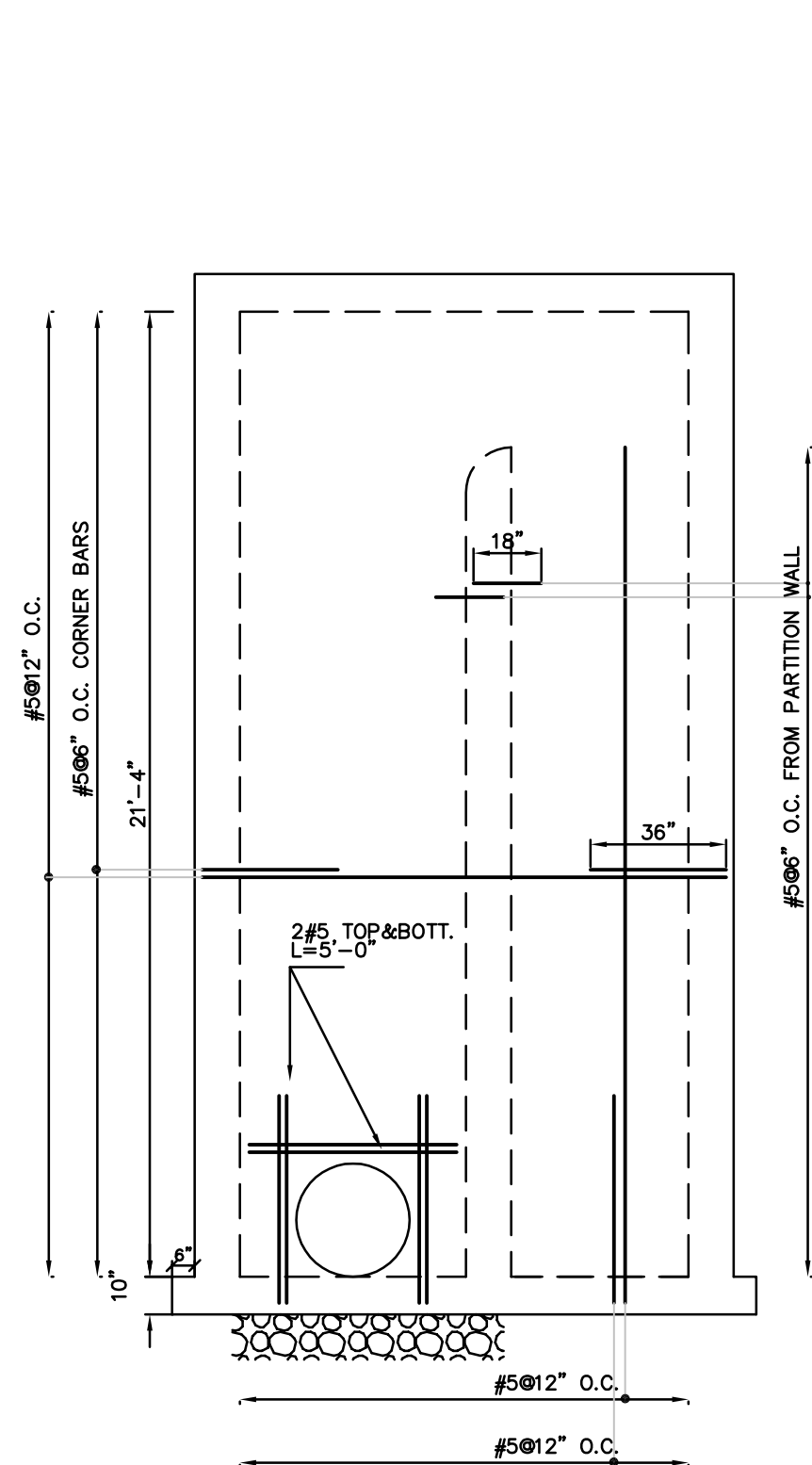
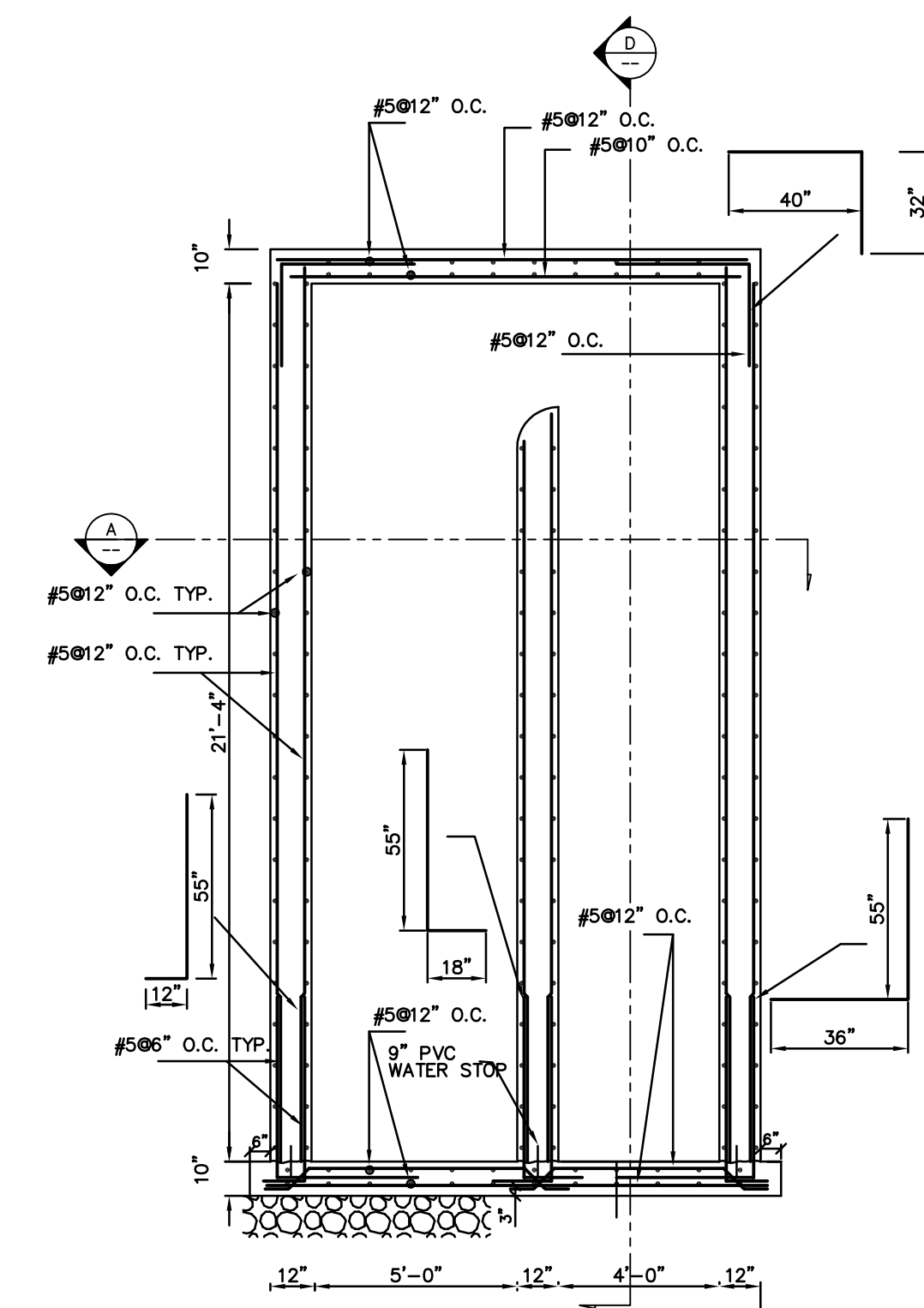
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GALVANIZED STEEL LADDER DETAILS
 SCALE: N.T.S.



- Notes**
1. MINIMUM CONCRETE SPECIFIED CYLINDER STRENGTH AT 28 DAYS 4000PSI.
 2. REINFORCEMENT TO BE GRADE 60 DEFORMED BARS ACCORDING TO ASTM A615
 3. ALL DETAILING IS TO BE ACCORDING TO ACI LATEST EDITION.
 4. MINIMUM CONCRETE COVER TO BE 2" UNLESS OTHERWISE INDICATED.
 5. DESIGN LOADS:
 LIVE LOAD HS20-44
 SNOW LOAD 70 PSF
 SEISMIC ZONE 3

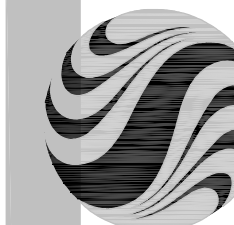
Revision	By	Appd.	YY.MM.DD
2	BZ	JRB	04.02.09
Issued	By	Appd.	YY.MM.DD
File Name:	BZ	BZ	04-02-06
	Dwn.	Chkd.	Dsgn.
YY.MM.DD			

Permit-Seal

Client/Project
**KENNECOTT LAND COMPANY
 DAYBREAK DEVELOPMENT**
**SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES**
 SOUTH JORDAN, UTAH

Title
**STORAGE POND OUTLET
 OVERFLOW STRUCTURE
 REINFORCEMENT DETAILS**

Project No. 86203003	Scale	Revision
Drawing No.	Sheet	



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 Suite 300, 3995 South 700 East
 Salt Lake City UT U.S.A.
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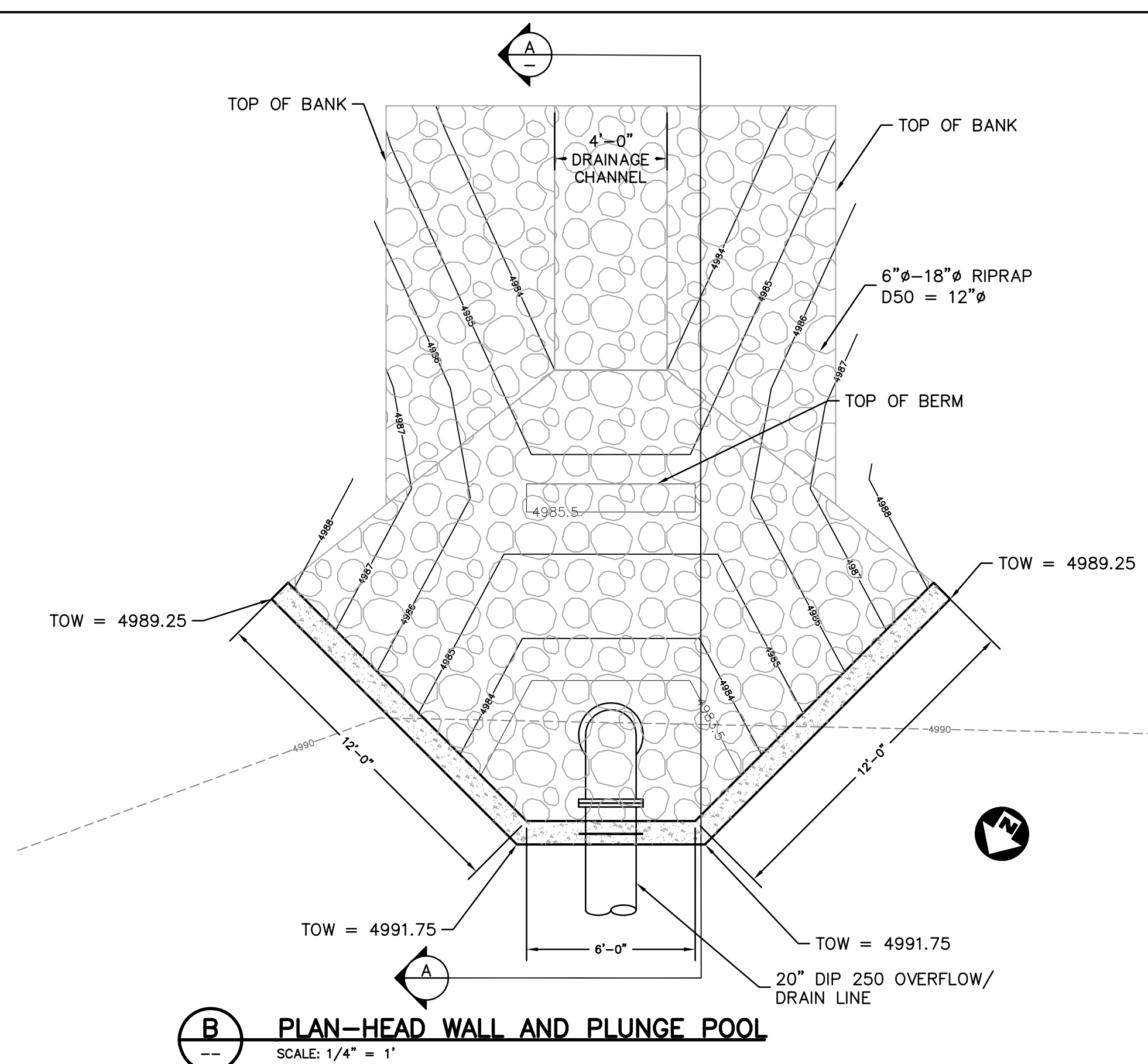
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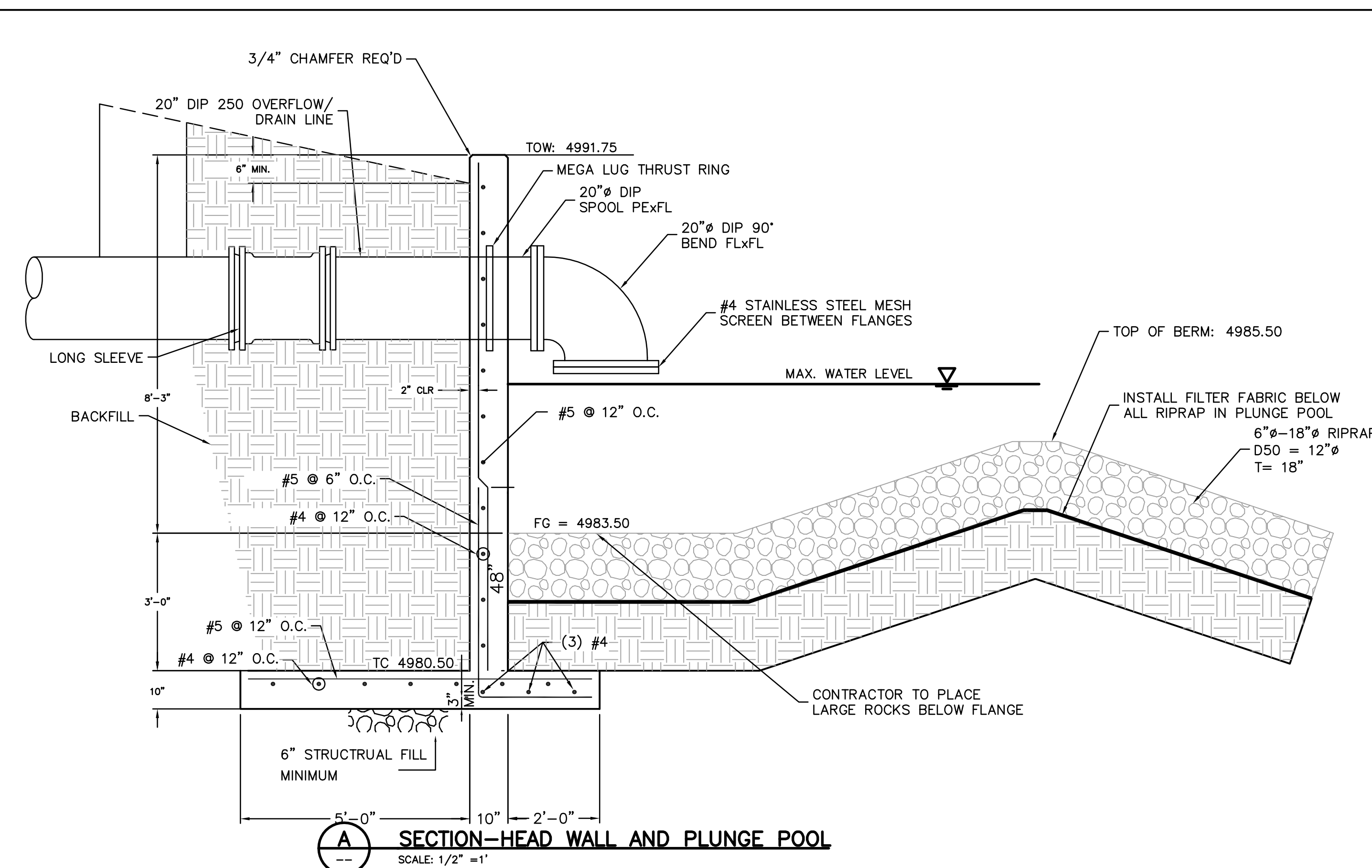
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Legend

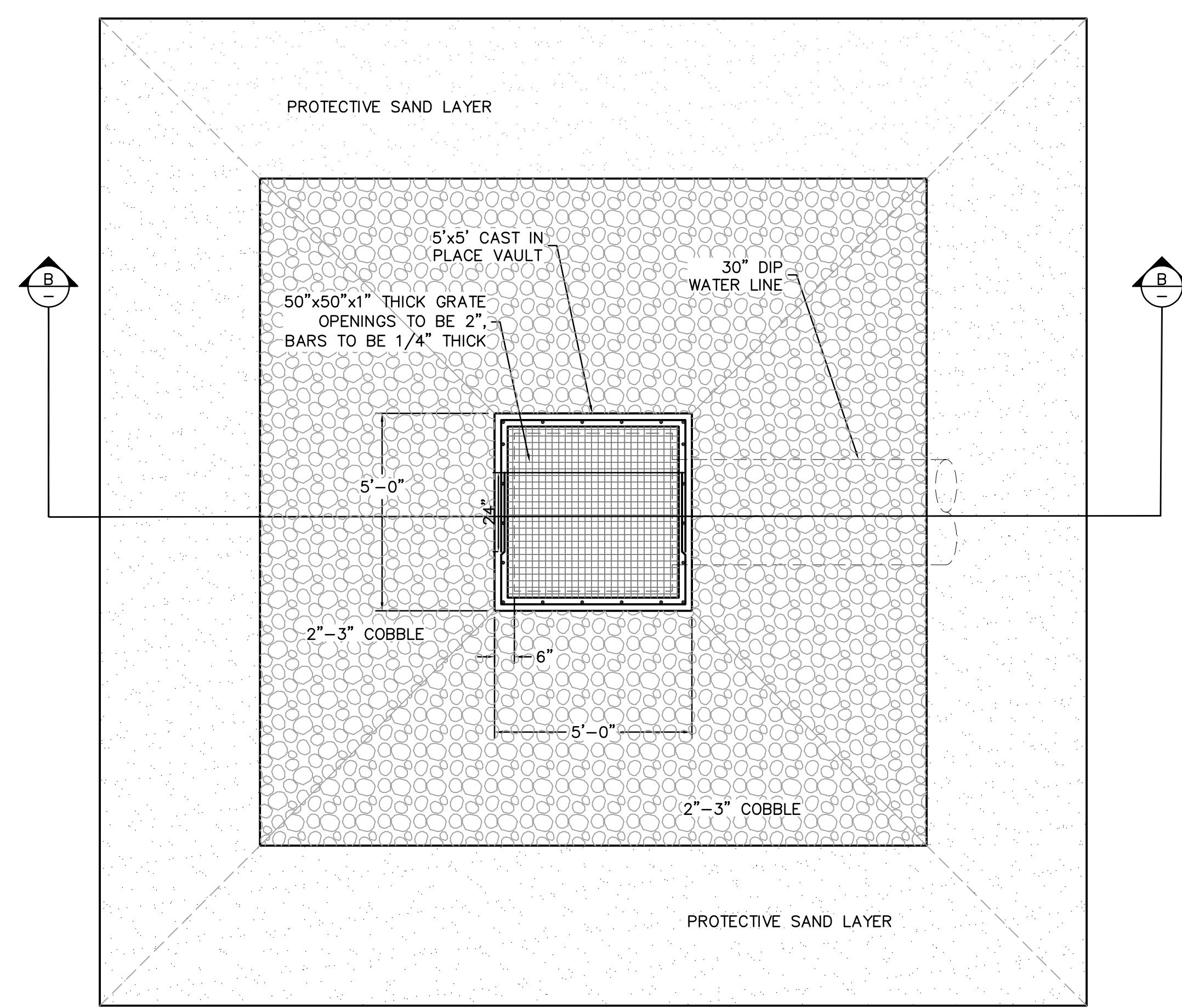
1. MINIMUM CONCRETE SPECIFIED CYLINDER STRENGTH AT 28 DAYS 4000PSI.
2. REINFORCEMENT TO BE GRADE 60 DEFORMED BARS ACCORDING TO ASTM A615
3. ALL DETAILING IS TO BE ACCORDING TO ACI LATEST EDITION.
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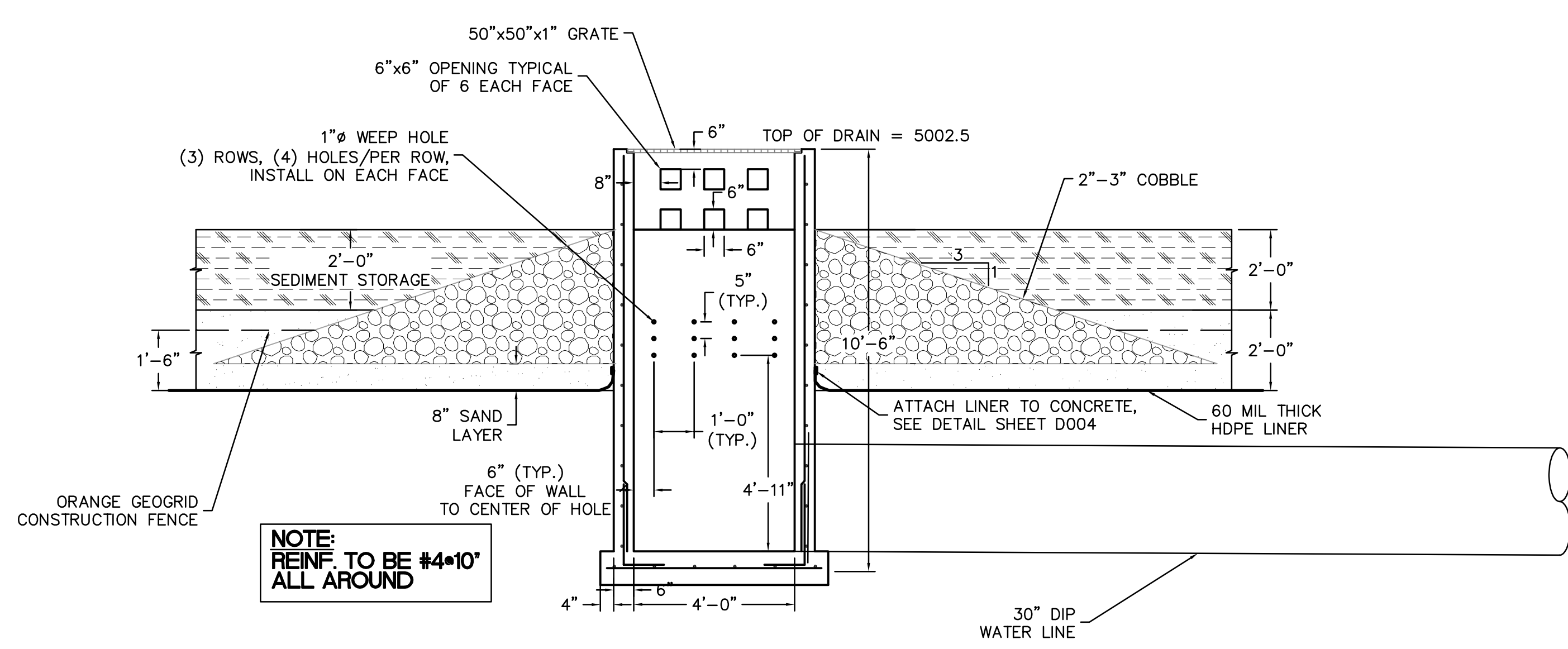
B PLAN-HEAD WALL AND PLUNGE POOL
 SCALE: 1/4" = 1'



A SECTION-HEAD WALL AND PLUNGE POOL
 SCALE: 1/2" = 1'



B PLAN-POND DRAIN STRUCTURE
 SCALE: 3/8" = 1'



B SECTION-POND DRAIN STRUCTURE REINF.
 SCALE: 1:2

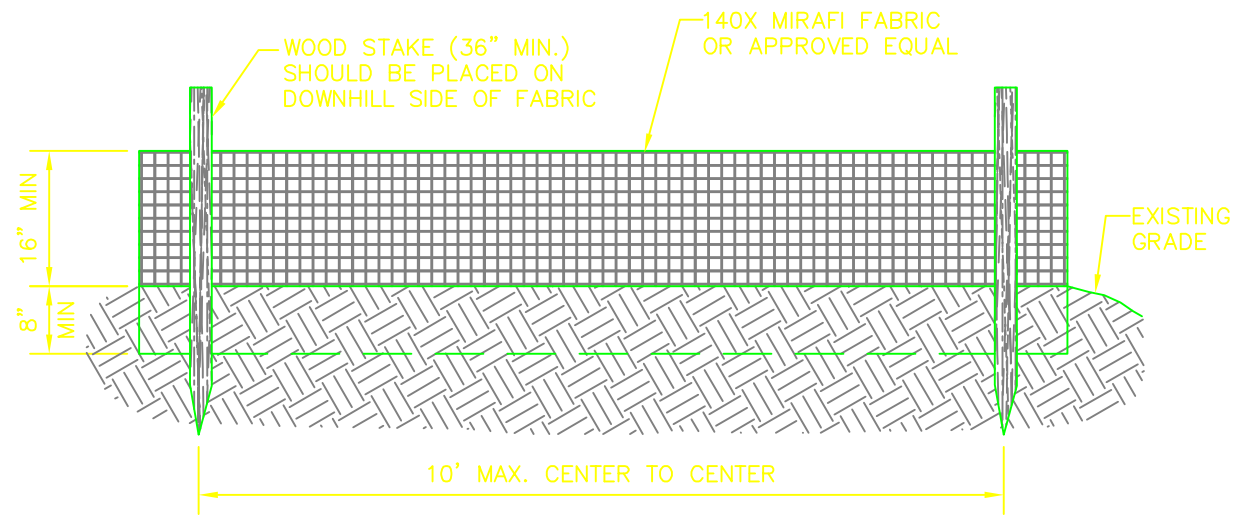
Revision	By	Appd.	YY.MM.DD
2	BID ISSUE	PMD	JRB 04.02.09
Issued		By	Appd. YY.MM.DD
File Name:	S002.dwg	PMD	JRB PMD 03.12.15
Permit-Seal		Dwn.	Chkd. Dsgn. YY.MM.DD

Client/Project
**KENNECOTT LAND COMPANY
 DAYBREAK DEVELOPMENT**
 SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES
 SOUTH JORDAN, UT

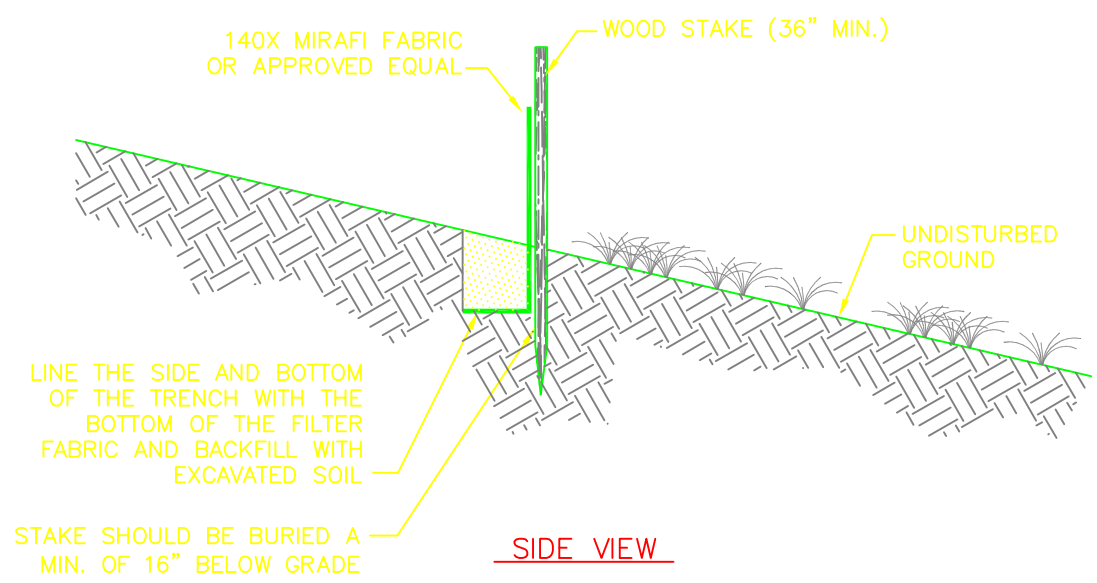
Title
**STORAGE POND
 STRUCTURAL PLANS,
 SECTIONS, AND DETAILS**

Project No.	Scale	
86203003	AS NOTED	
Drawing No.	Sheet	Revision
S002	23 of 28	0

V:\2582\active\86203001_KLC_Sunrise Phase 1_01-Sub\DWG\5\Sheets\Secondary Water\S002.dwg
 2004-02-10 04:31PM By: pdublerw

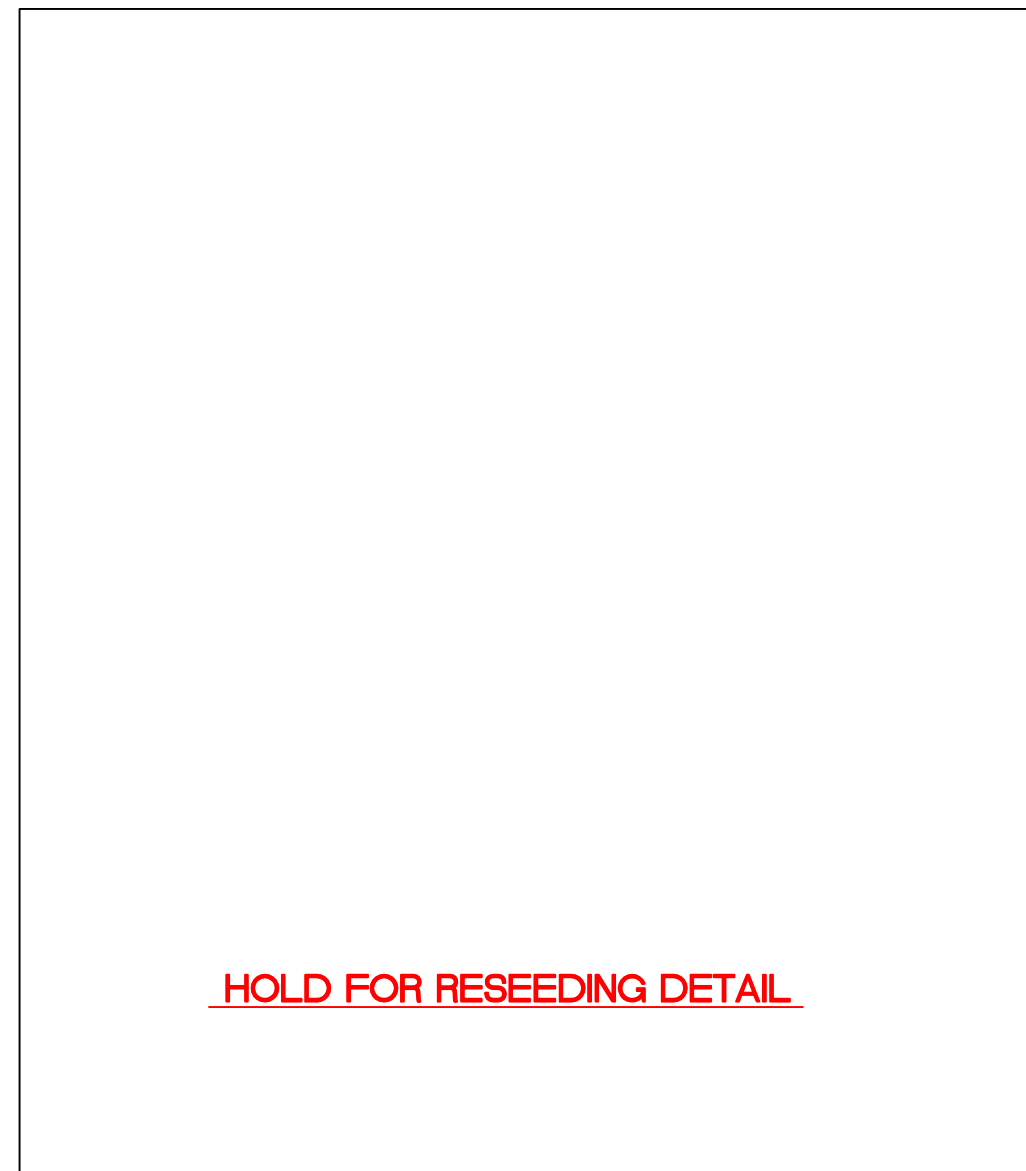


FRONT VIEW

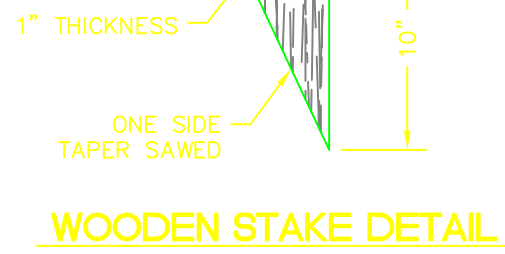
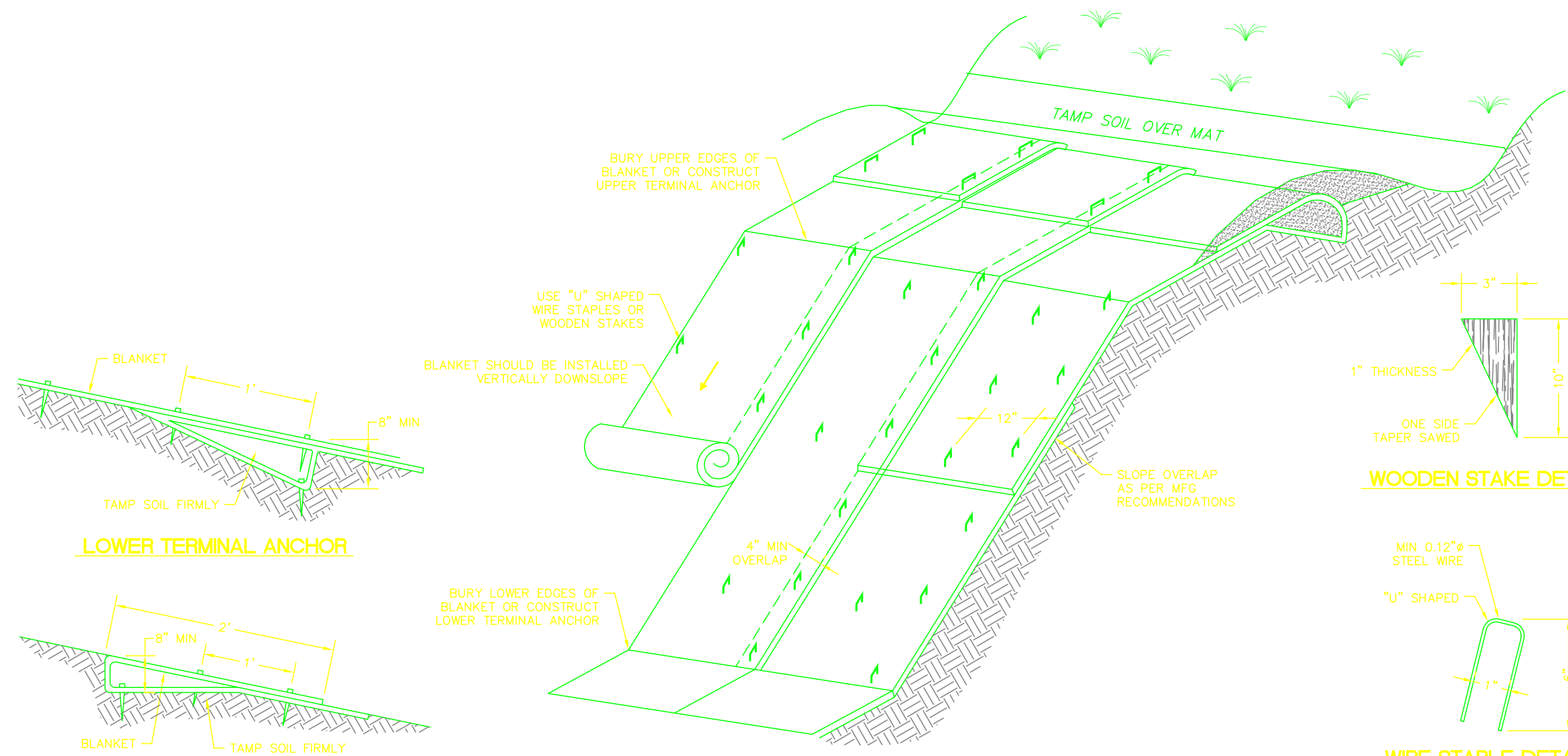


SIDE VIEW

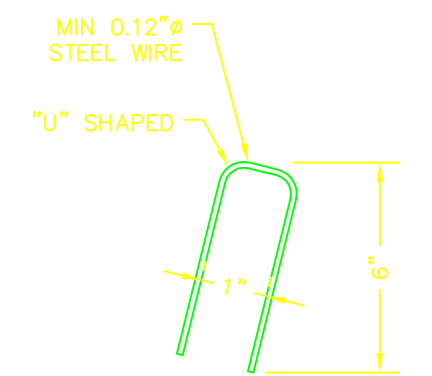
SILT FENCE DETAIL



HOLD FOR RESEEDING DETAIL



WOODEN STAKE DETAIL



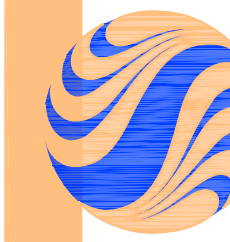
WIRE STAPLE DETAIL

GEOTEXTILES TYPICAL DESIGN LAYOUT

NOTE: ALL CUT & FILL SLOPES GREATER THAN OR EQUAL TO 4:1 REQUIRE GEOTEXTILE COVERING.

LOWER TERMINAL ANCHOR

UPPER TERMINAL ANCHOR



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Legend

Revision	By	Appd.	Date	
2	BID ISSUE	PMD	JRB	04.02.09
Issued		By	Appd.	Date
File Name: V:\D001.DWG	PMD/NMM	JRB	PMD/NMM	
	Dwn.	Chkd.	Dsgn.	Date

Permit-Seal

Client/Project

**KENNECOTT LAND COMPANY
DAYBREAK DEVELOPMENT
SECONDARY WATER SYSTEM STORAGE
POND AND TRANSMISSION LINES**
South Jordan, Utah

Title

EROSION CONTROL PLAN

Project No. 86203001	Scale NTS
Drawing No. D001	Sheet 24 of 28
	Revision 0



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Legend

Notes

Revision	By	Appd.	YY.MM.DD
2	BID ISSUE	PMD	JRB 04.02.09
1	70% REVIEW	PMD	JRB 03.12.29
Issued		By	Appd. YY.MM.DD

File Name	CTM	JRB	PMD	03.11.15
D003	Dwn.	Chkd.	Dsgn.	YY.MM.DD

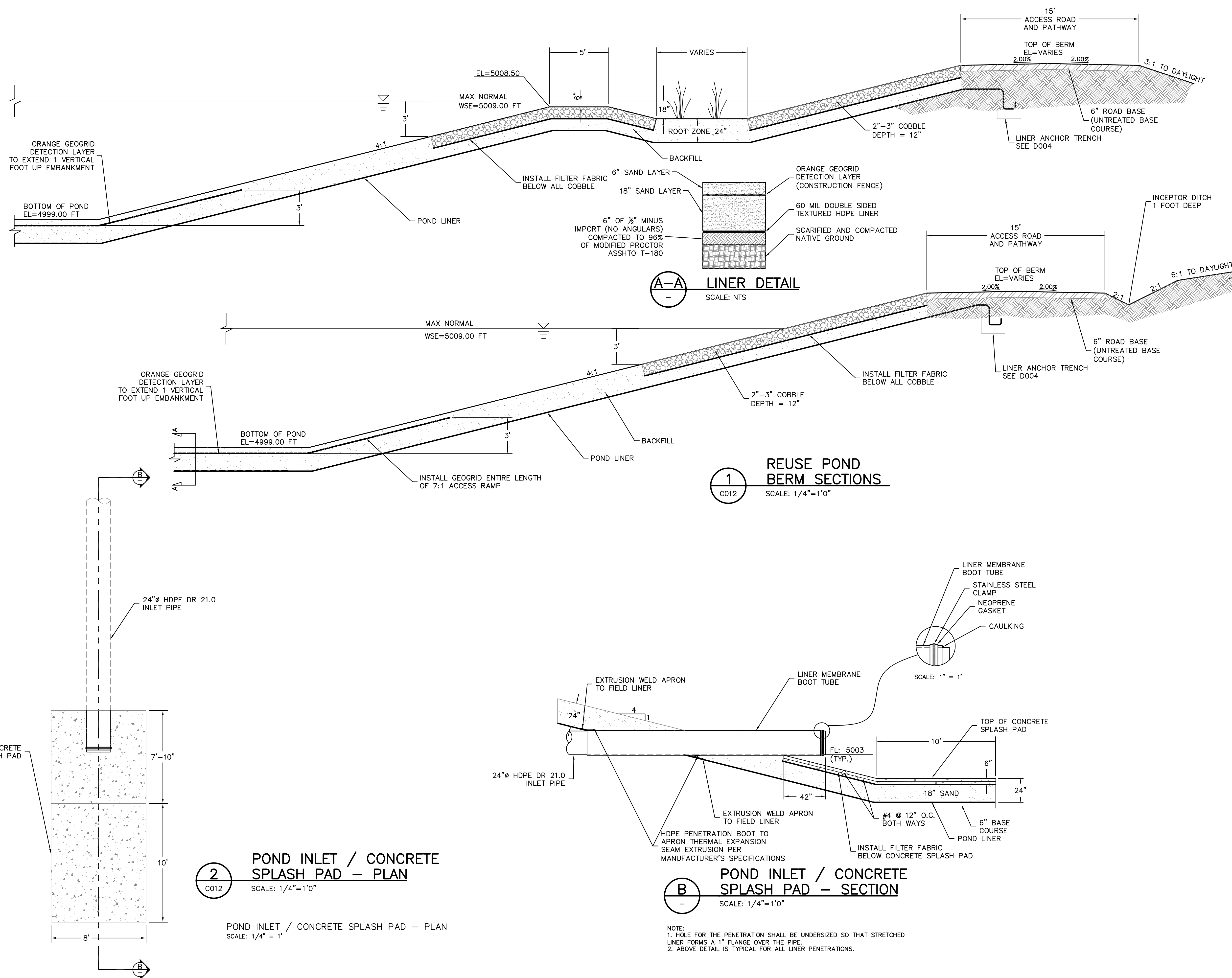
Permit-Seal

Client/Project
**KENNECOTT LAND COMPANY
 DAYBREAK DEVELOPMENT**
 SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title
**RAW WATER POND BERM SECTIONS
 AND INLET DETAILS**

Project No.	Scale
86203003	AS NOTED

Drawing No.	Sheet	Revision
D003	26 of 28	0



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 2/20/2015 10:03:51 AM By: pblabrecq



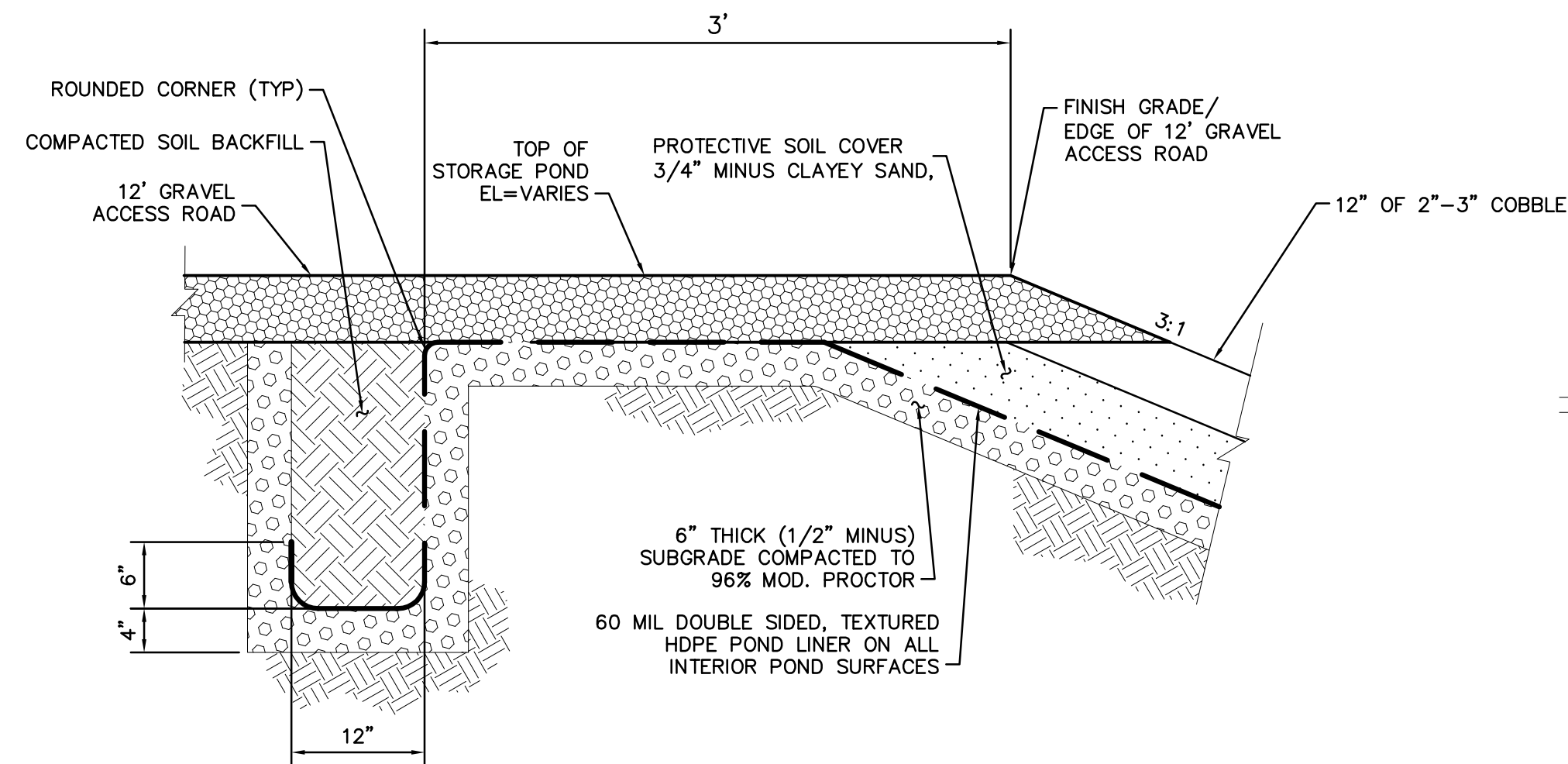
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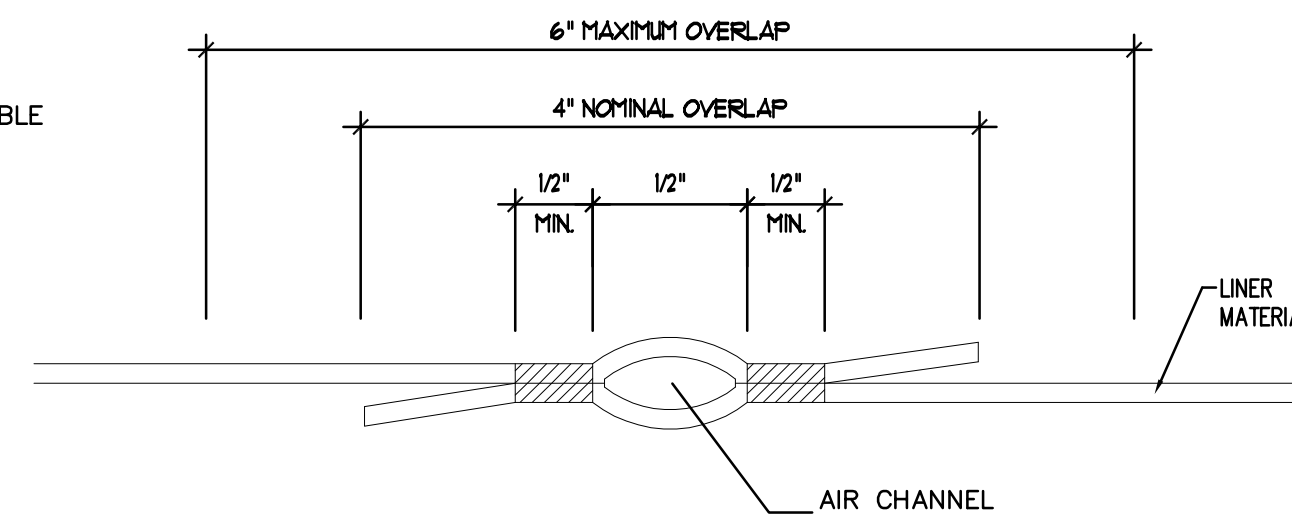
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Legend

Notes



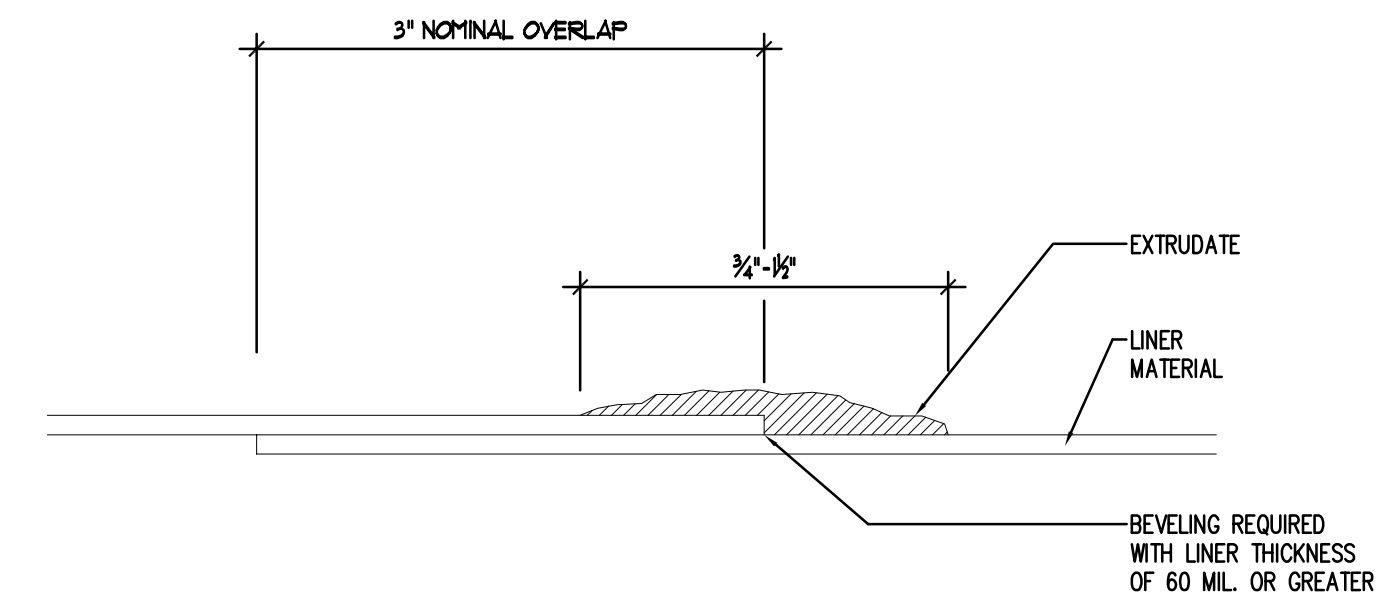
TYPICAL ANCHOR TRENCH



DOUBLE FUSION WELD SECTION

N T S

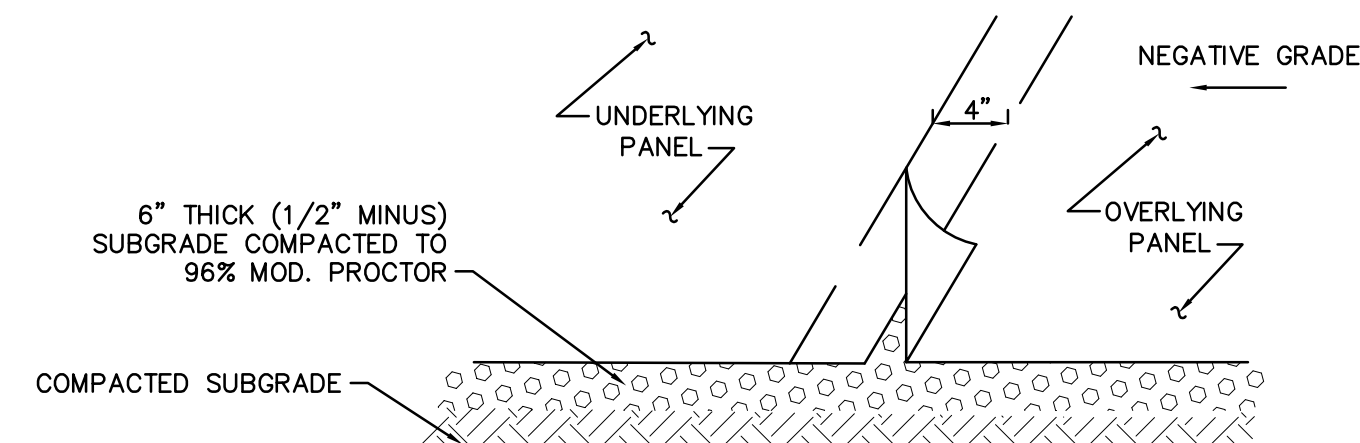
NOTES:
 AIR PRESSURE TESTING IS THE PRIMARY METHOD FOR NON DESTRUCTIVE TESTING DOUBLE FUSION WELDING



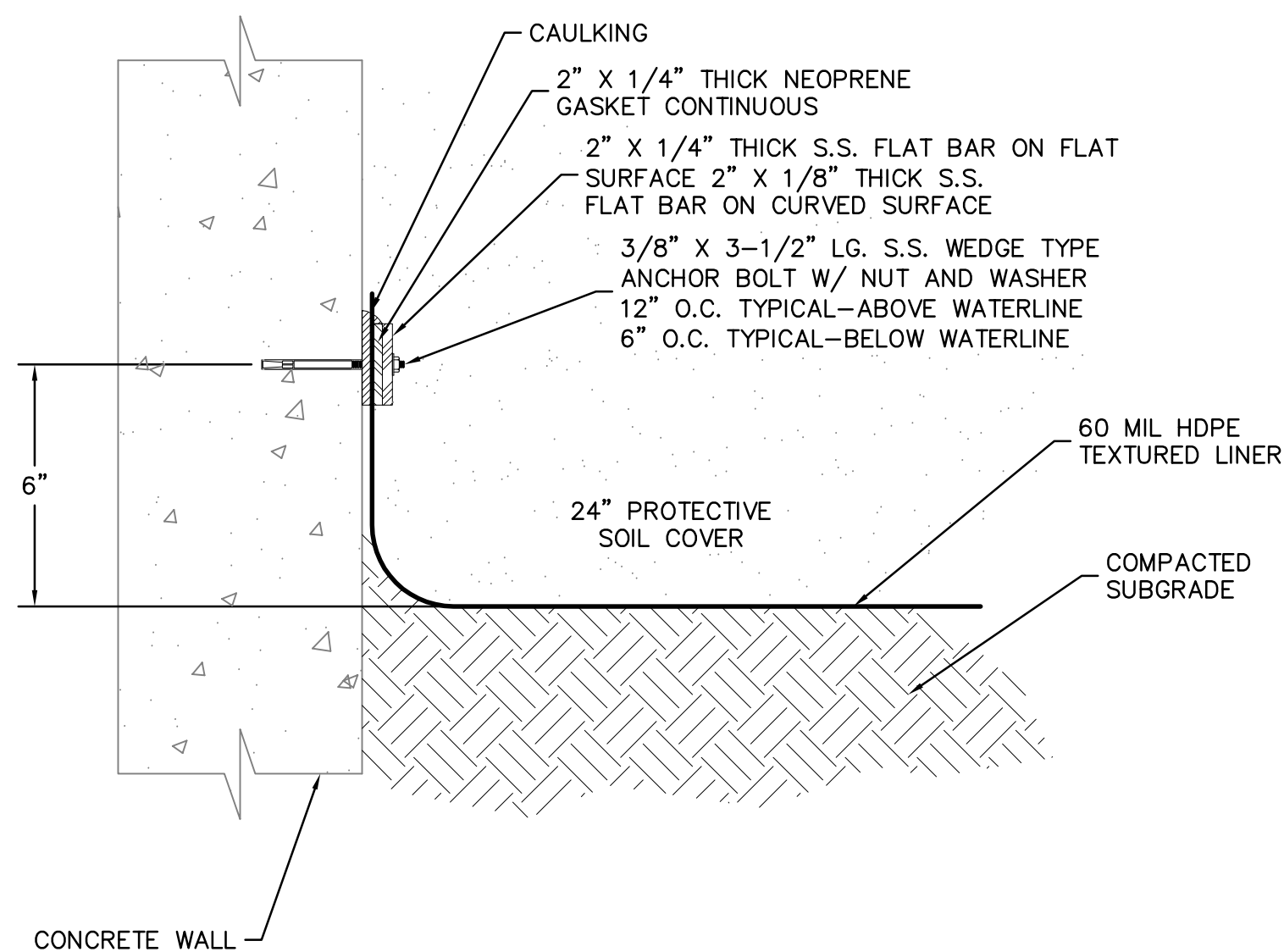
EXTRUSION WELD

N T S

NOTES:
 LINER SHEETS TACK WELDED TOGETHER AT OVERLAP TO FORM TEMPORARY BOND PRIOR TO WELDING
 GRINDING NOT TO EXCEED 1/4" PAST 'SQUEEZE-OUT' ON EITHER SIDE. PROPER CARE SHOULD BE TAKEN IN NOT REMOVING TOO MUCH MATERIAL WHEN GRINDING
 VACUUM TESTING IS THE NONDESTRUCTIVE SEAM TEST METHOD FOR EXTRUSION WELDS



TYPICAL 60 MIL HDPE DOUBLE FUSION WELD
 * SEE DOUBLE FUSION WELD SECTION THIS SHEET



VERTICAL METAL BATTEN STRIP DETAIL

SCALE: 1" = 4"

Revision	By	Appd.	YY.MM.DD
2	BID ISSUE	PMD	JRB 04.02.09
1	70% REVIEW	PMD	JRB 03.12.29
Issued		By	Appd. YY.MM.DD
File Name: D004.dwg	PMD	JRB	PMD
	Dwn.	Chkd.	Dsgn. YY.MM.DD

Client/Project
KENENCOTT LAND COMPANY
DAYBREAK DEVELOPMENT
 SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES
 SOUTH JORDAN CITY, UT

Title
RAW WATER POND
LINER DETAILS

Project No. 86203003	Scale
Drawing No.	Sheet
	Revision



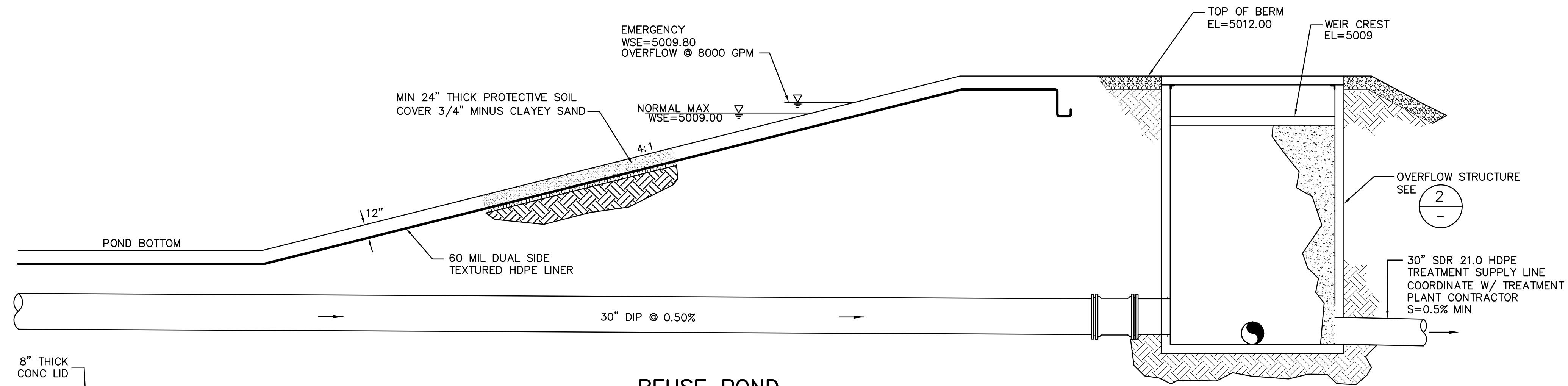
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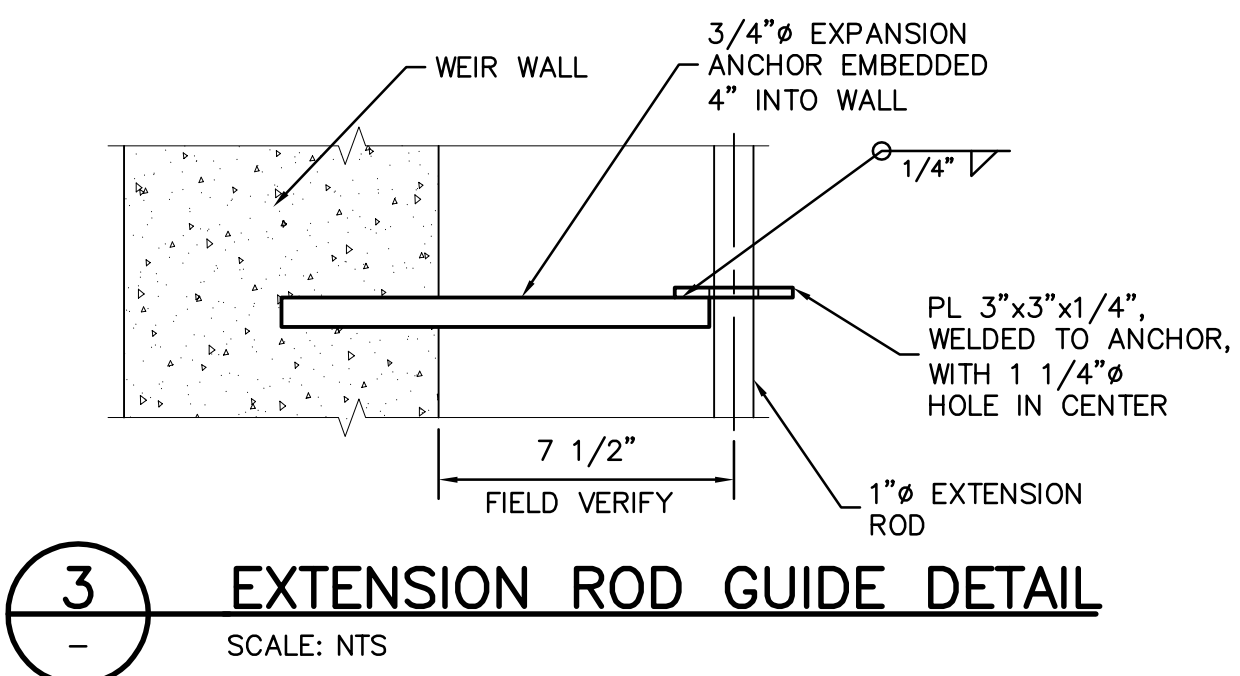
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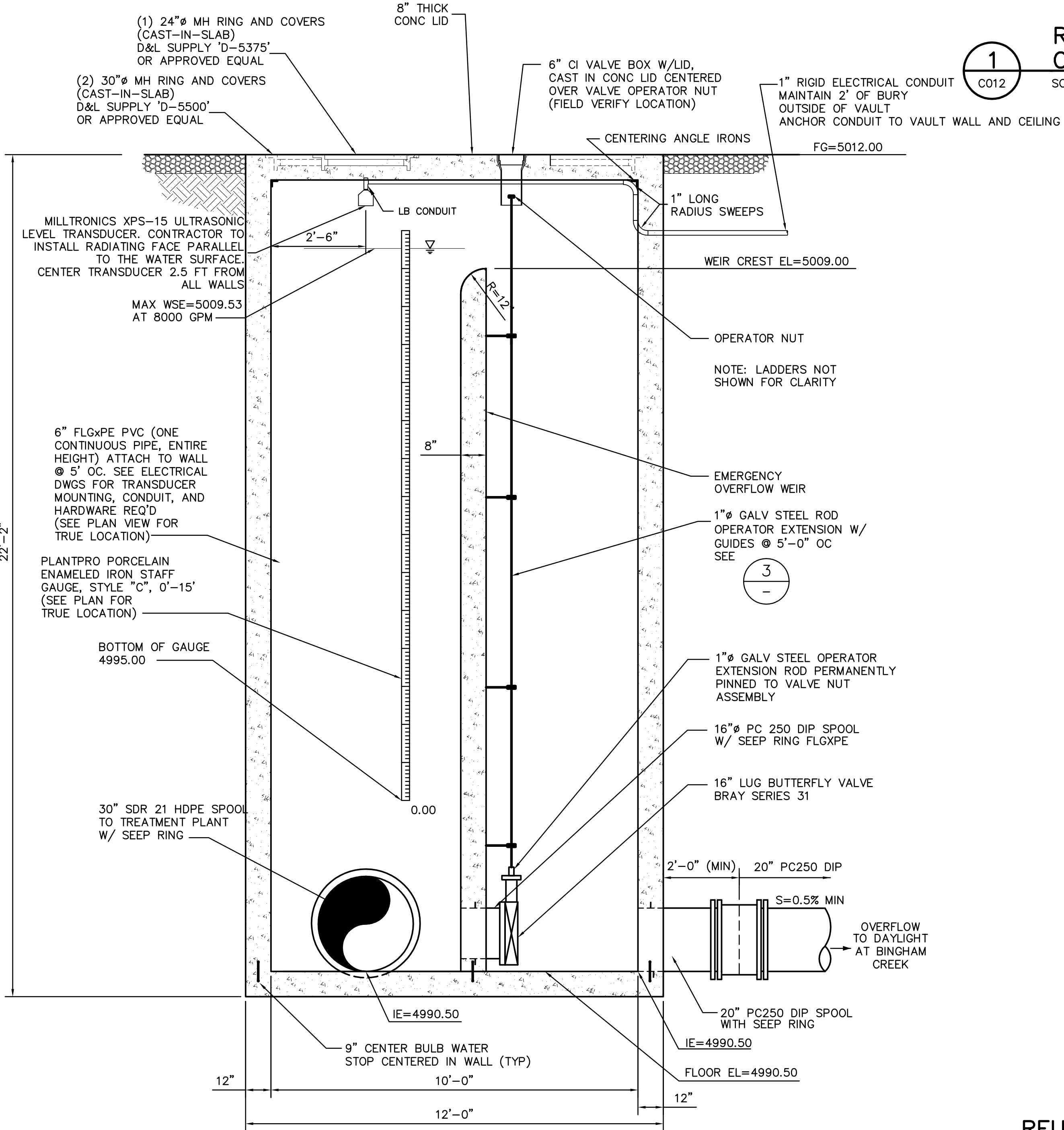
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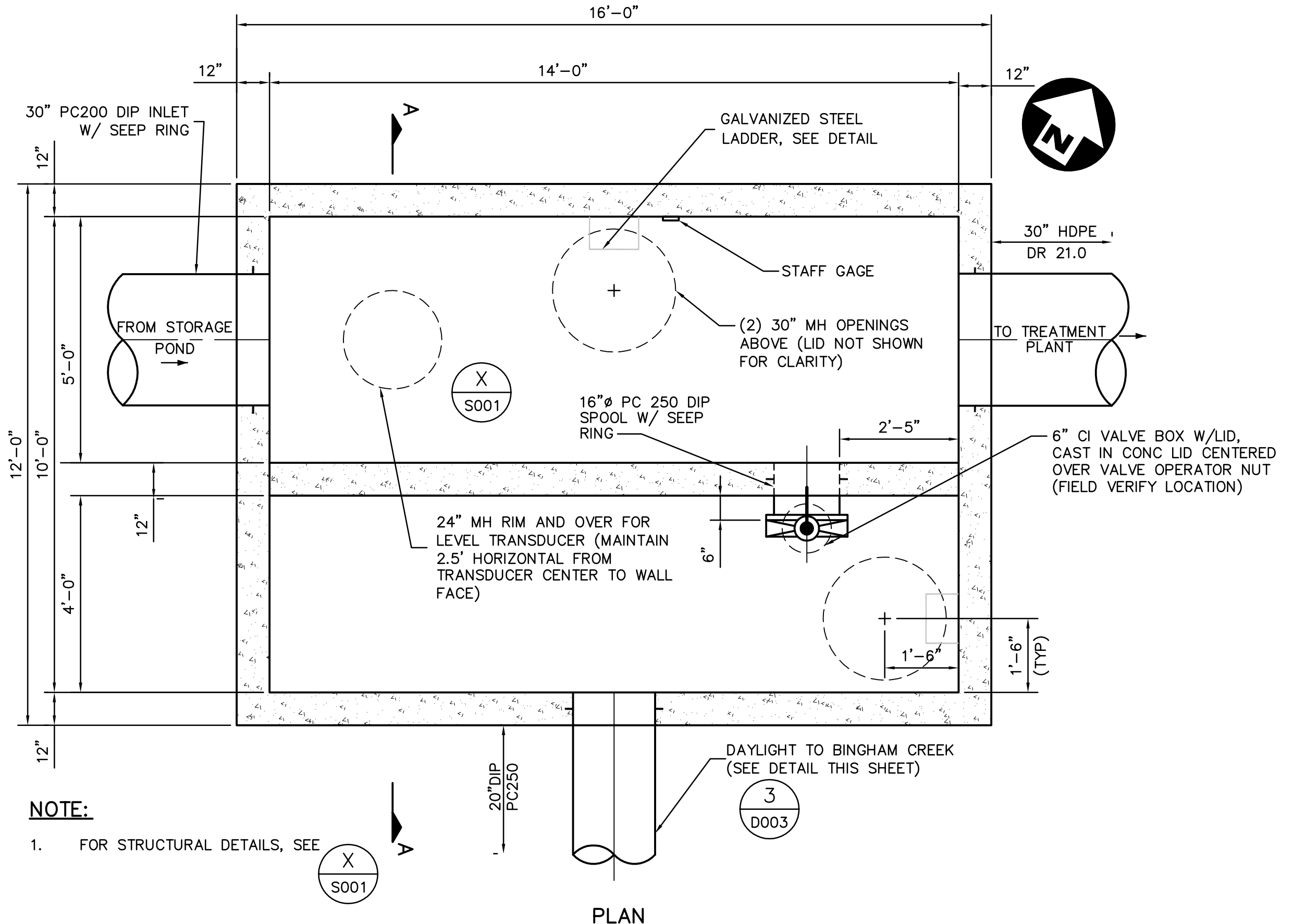
1 REUSE POND OVERFLOW ELEVATION
 SCALE: 1/64" = 1'-0"



3 EXTENSION ROD GUIDE DETAIL
 SCALE: NTS



2 REUSE POND OVERFLOW STRUCTURE DETAIL
 SCALE: 1/2" = 1'-0"



NOTE:
 1. FOR STRUCTURAL DETAILS, SEE X/S001

Revision	By	Appd.	YY.MM.DD
2	BID ISSUE	PMD	JRB 04.02.09
1	70% REVIEW	PMD	JRB 03.12.29
Issued		By	Appd. YY.MM.DD

File Name:	PMD	JRB	PMD	03.12.15
D005.dwg	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Client/Project
**KENNECOTT LAND COMPANY
 DAYBREAK DEVELOPMENT**

**SECONDARY WATER SYSTEM STORAGE
 POND AND TRANSMISSION LINES**
 SOUTH JORDAN, UT

Title
**STORAGE POND OUTLET/
 OVERFLOW STRUCTURE MECHANICAL
 PLANS, SECTIONS AND DETAILS**

Project No.	Scale
86203003	AS NOTED

Drawing No.	Sheet	Revision
D005	8 of 28	0

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 2008-02-10 08:30PM By: pdubrow