

MONTECITO WATER DISTRICT

160 East Via Verde, Suite 240 San Dimas, Caifornia, 91773

PHONE: (909) 305-2930 FAX: (909) 305-2959



www.tetratech.com

RESERVOIR SEISMIC RETROFIT AND REPLACEMENT PROJECT FOR PARK LANE RESERVOIR



PROLECT LOCATION Within Trailect Q Within Trailec

PROJECT LOCATION:

PARK LANE NEAR EAST MOUNTAIN DRIVE MONTECITO, CALIFORNIA

34.447663, -119.617445

Tt PROJECT No.:

200-106490-21001

CLIENT PROJECT No.:

CLIENT INFORMATION:

MONTECITO WATER DISTRICT

583 San Ysidro Rd

Montecito, CA 93108

PROJECT DESCRIPTION / NOTES:

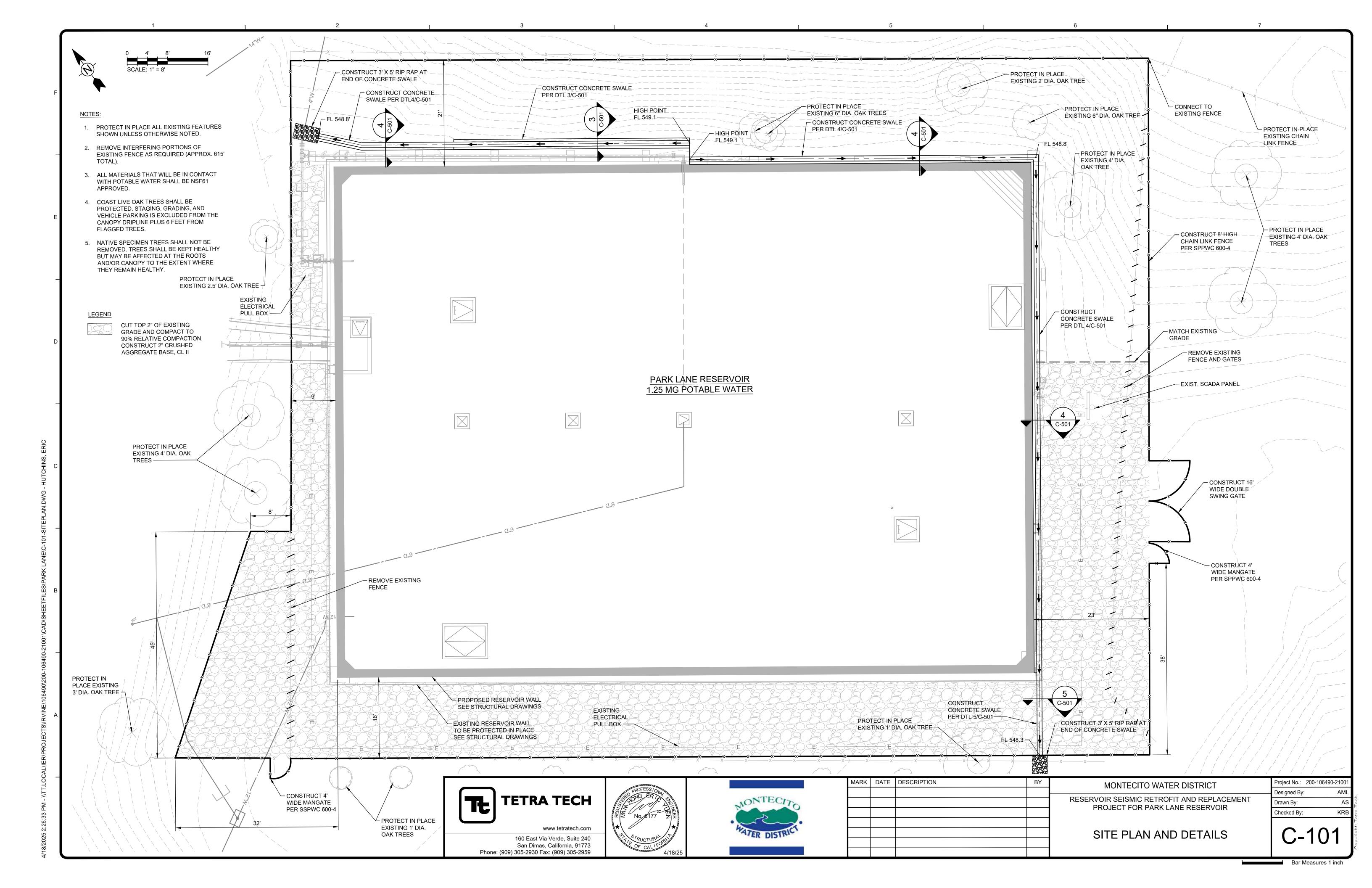
REPLACEMENT OF THE EXISTING RESERVOIR STRUCTURE WITH A NEW REINFORCED CONCRETE STRUCTURE CONSTRUCTED WITHIN THE FOOTPRINT OF THE EXISTING RESERVOIR

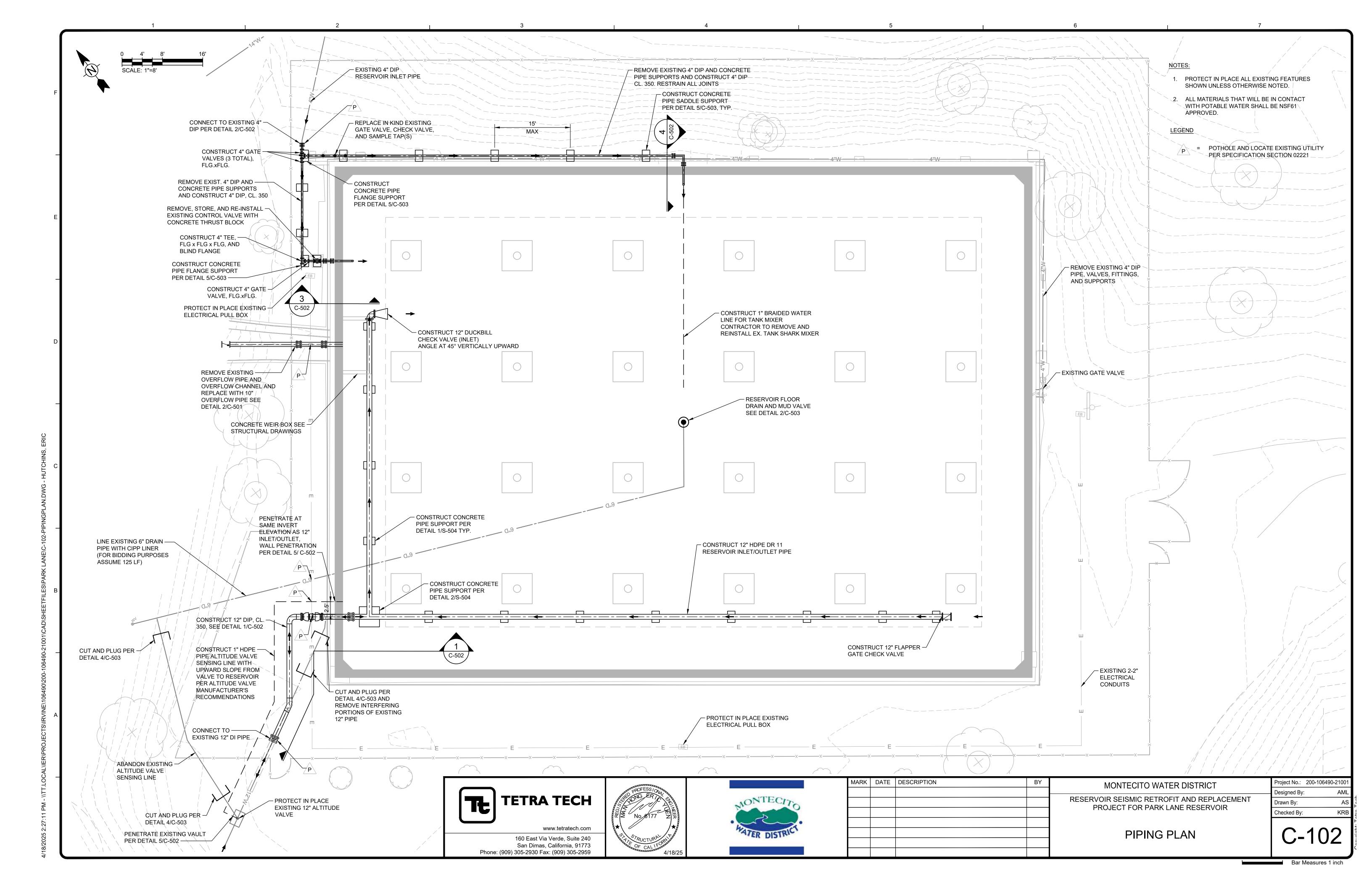
ISSUED:

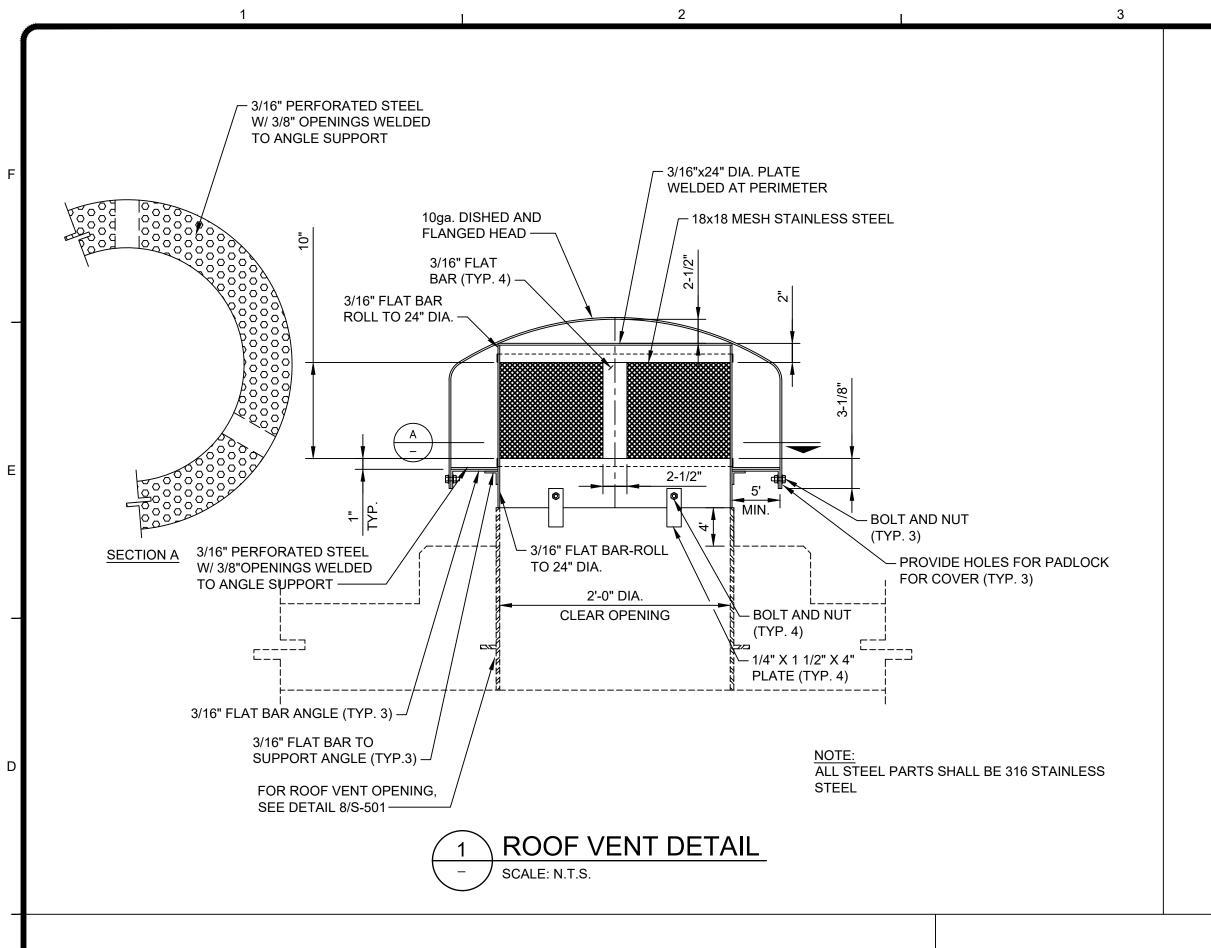
06/23/2021: 60 PERCENT DESIGN REVIEW 08/12/2021: 90 PERCENT DESIGN REVIEW 10/15/2021: 100 PERCENT DESIGN REVIEW 4/18/2025: FINAL SUBMITTAL

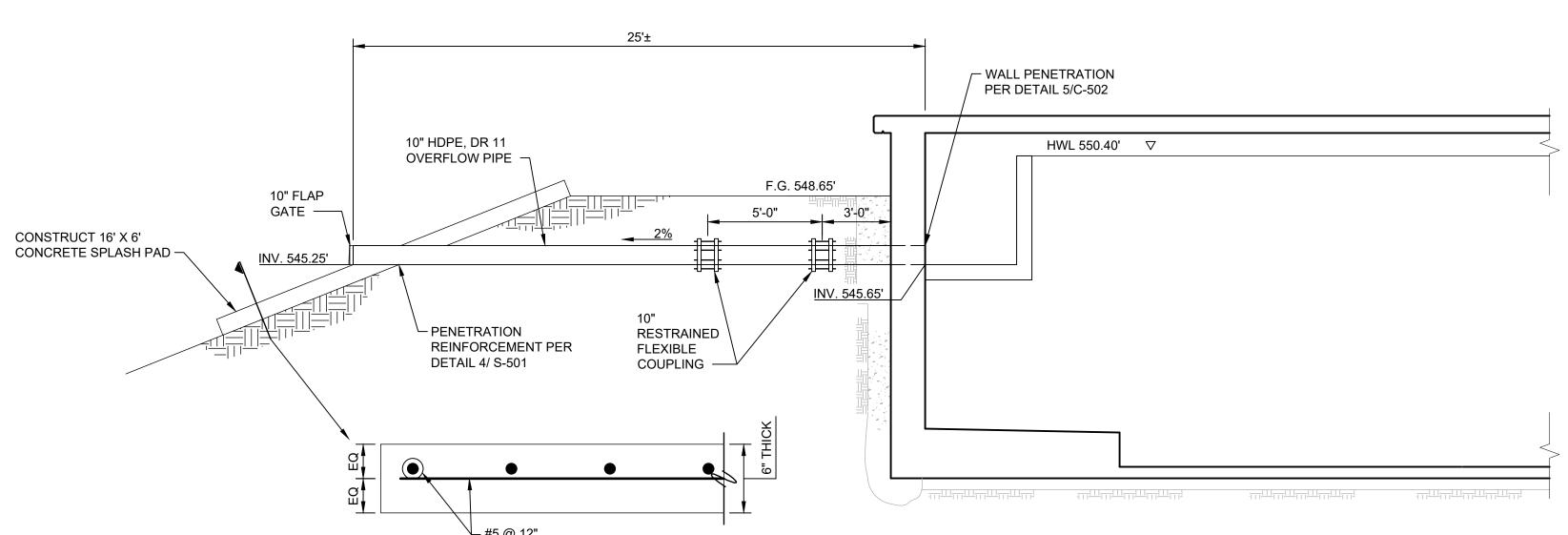
SHEET INDEX

| | SHEET NO. | DESCRIPTION |
|---|-----------|---|
| | COVER | COVER SHEET |
| | C-101 | SITE PLAN |
| | C-102 | PIPING PLAN |
| | C-501 | CIVIL DETAILS |
| | C-502 | CIVIL DETAILS |
| | C-503 | CIVIL DETAILS |
| | S-001 | GENERAL STRUCTURAL NOTES |
| | S-002 | SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATIONS |
| | S-101 | DEMOLITION PLANS |
| | S-102 | DEMOLITION SECTIONS |
| | S-103 | FOUNDATION PLAN |
| | S-104 | ROOF DECK PLAN |
| | S-301 | PARTIAL RESERVOIR SECTION |
| | S-302 | COLUMN SECTION |
| | S-303 | ROOF SLAB CROSS SECTION |
| | S-501 | STRUCTURAL DETAILS 1 |
| | S-502 | STRUCTURAL DETAILS 2 |
| | S-503 | STRUCTURAL DETAILS 3 |
| | S-504 | STRUCTURAL DETAILS 4 |
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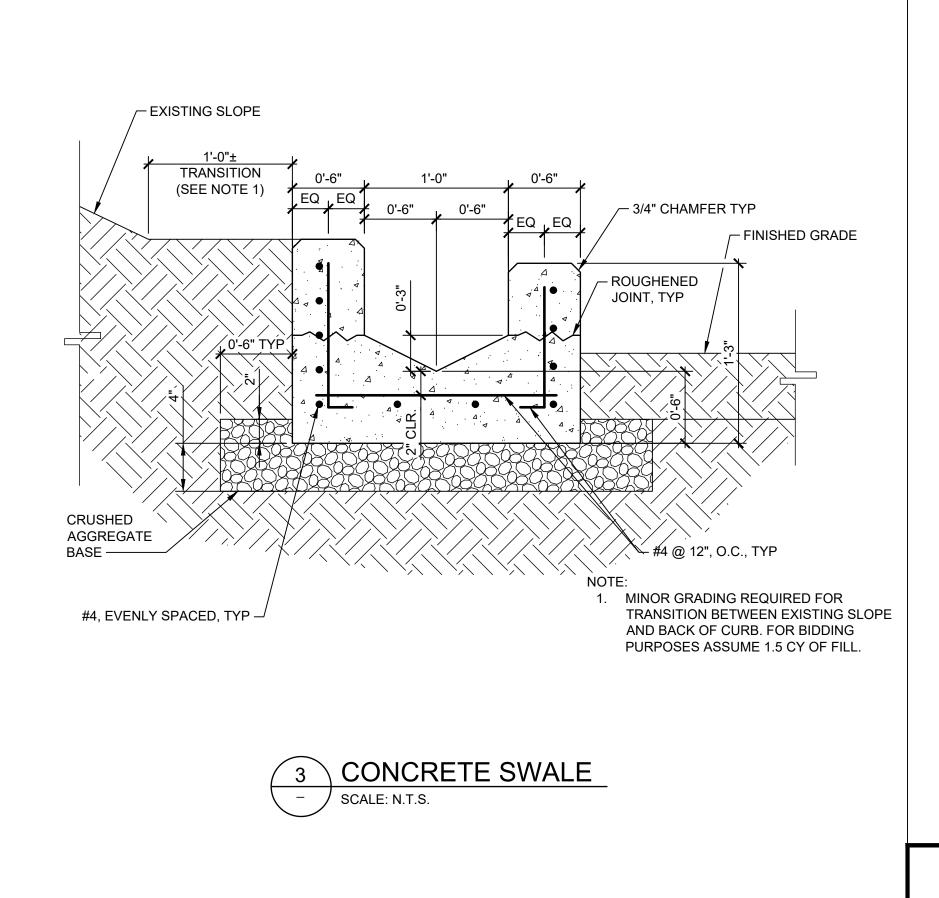


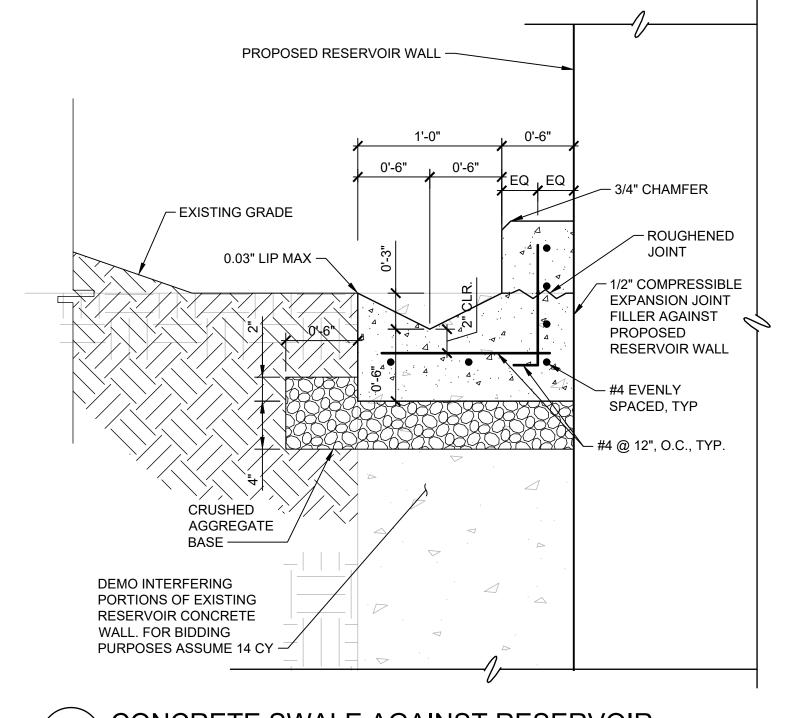


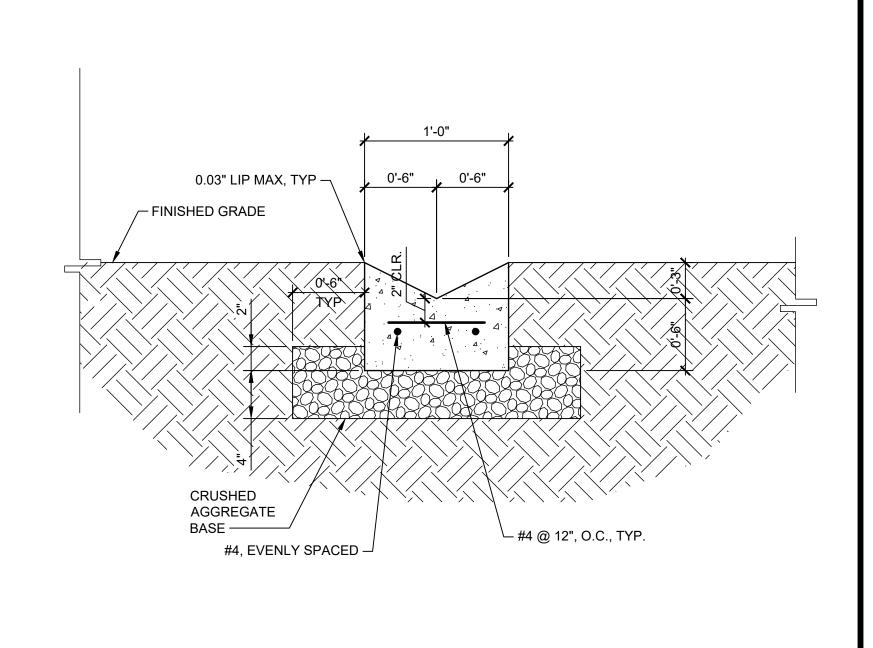


2 RESERVOIR OVERFLOW SECTION

SCALE: N.T.S.







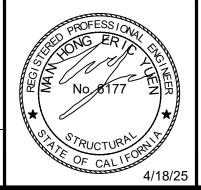
4 CONCRETE SWALE AGAINST RESERVOIR

SCALE: N.T.S.

5 CONCRETE SWALE WITH NO CURB
- SCALE: N.T.S.



Phone: (909) 305-2930 Fax: (909) 305-2959





| MARK | DATE | DESCRIPTION | BY | |
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MONTECITO WATER DISTRICT

SERVOIR SEISMIC RETROFIT AND REPLACEMENT
PROJECT FOR PARK LANE RESERVOIR

Project No.:

Designed By:

Drawn By:

Checked By:

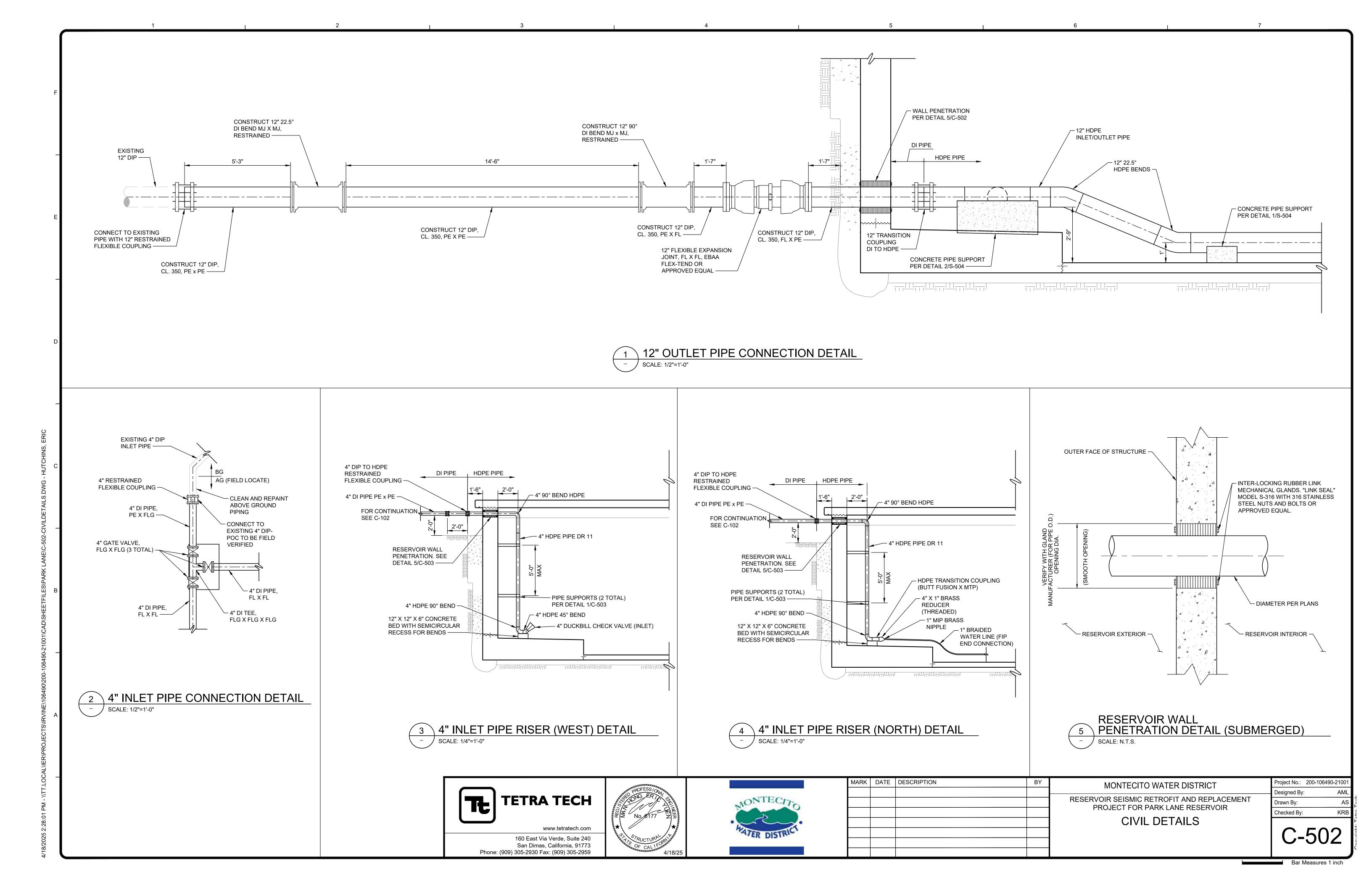
CIVIL DETAILS

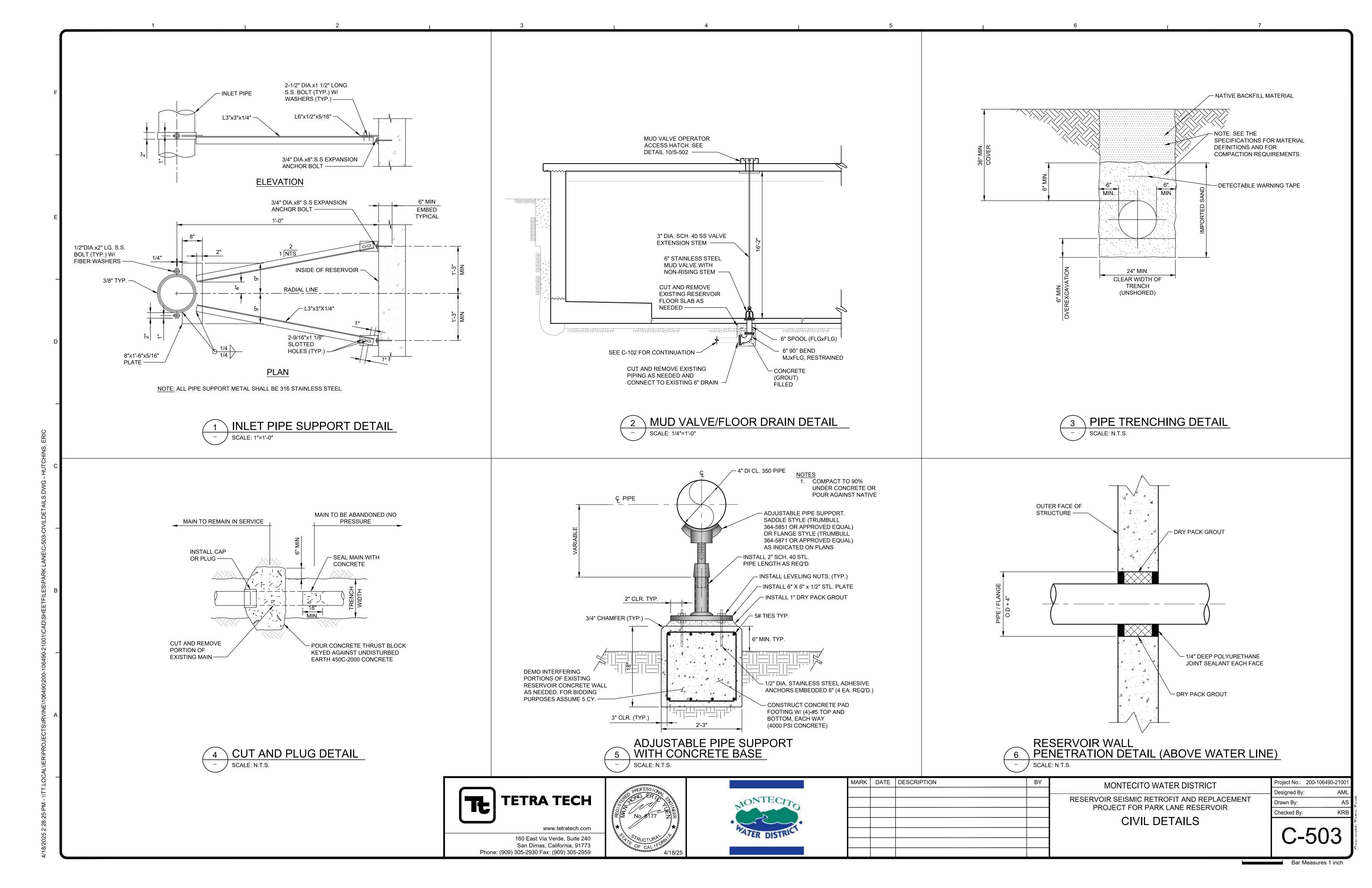
C-501

Project No.: 200-106490-2100

Bar Measures 1 inch

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<u>GENERAL</u>

- 1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODE (C.B.C) BASED UPON THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (I.B.C.). THE MATERIALS AND CONSTRUCTION SHALL CONFORM WITH ACI 350-06.
- 2. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. DIMENSIONS OF (E) CONSTRUCTION WHERE SHOWN ON THESE DRAWINGS ARE NOMINAL AND SHOULD BE FIELD VERIFIED. SHOULD CONDITIONS EXIST WHICH ARE CONTRARY TO THOSE SHOWN ON PLANS, THE ENGINEER SHALL BE NOTIFIED IN WRITING BEFORE PROCEEDING WITH WORK.
- 3. UNLESS DETAILED, SPECIFIED, OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND THESE GENERAL NOTES. TYPICAL DETAILS ARE MEANT TO APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS ON DRAWINGS WHERE THE OCCUR.
- 4. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND PEDESTRIANS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE. BUT NOT BE LIMITED TO BRACING. SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK, ETC. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT BE CONSIDERED AS INSPECTION OF SUCH ITEMS.
- 5. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
- ALL WORK SHALL CONFORM TO THE PLANS AND SPECIFICATIONS IN ALL RESPECTS AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
- 7. ASSUMED DESIGN SOIL BEARING VALUE IS 3000 PSF PER TABLE 1806.3 OF THE 2019 CBC, FOR SANDY GRAVEL OR SAND (CLASSIFICATION GW OR GP). THIS SOIL BEARING ASSUMPTION SHALL BE VERIFIED AFTER THE EXCAVATION IS COMPLETE.
- 8. CONTRACTOR SHALL VERIFY LOCATION OF ALL SITE UTILITIES PRIOR TO STARTING WORK, BOTH ABOVE GROUND AND BELOW GROUND, WHICH MAY BE IMPACTED BY THE WORK SHOWN ON THESE DRAWINGS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 9. ALL ITEMS SHOWN ON THESE PLANS ARE NEW UNLESS NOTED (E), EXIST. OR EXISTING.

- 1. REINFORCEMENT FOR CONCRETE AND MASONRY SHALL BE DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 (A706/A706M FOR WELDED REINFORCING). GRADE 60 STEEL SHALL BE USED.
- 2. WIRE MESH, WHERE USED, SHALL CONFORM TO ASTM A185. LAP 12" WHERE SPLICED.
- 3. ALL REINFORCEMENT, ANCHOR BOLTS, AND OTHER ANCHORAGES PLACED IN MASONRY AND CONCRETE SHALL BE ACCURATELY PLACED AND POSITIVELY SECURED AND SUPPORTED BY CONCRETE BLOCKS, METAL CHAIRS, SPACERS, OR METAL HANGERS, AND SHALL BE IN POSITION BEFORE CONCRETE PLACING OR GROUTING IS BEGUN. DETAILING AND PLACING OF BARS SHALL CONFORM TO THE A.C.I. MANUAL OF STANDARD PRACTICES.
- 4. BARS SPECIFIED AS "CONTINUOUS" SHALL EXTEND THE FULL LENGTH OF THE MEMBER CONTAINING THEM AND MAY BE SPLICED (UNLESS NOTED OR SHOWN WITHOUT SPLICES ON THE PLANS). IN CONCRETE, PROVIDE LAPS PER DETAIL 2 ON SHEET S-501. STAGGER ALL SPLICES.
- 5. DOWELS SHALL BE PROVIDED AT ALL POUR JOINTS AND SHALL BE THE SAME SIZE AND SPACING AS REINFORCING DIRECTLY BEYOND POUR JOINTS.
- 6. WELDING OF REINFORCING STEEL, METAL INSERTS AND CONNECTIONS IN REINFORCED CONCRETE OR MASONRY CONSTRUCTION SHALL CONFORM TO ANSI/AWS D1.4-11. USE LOW HYDROGEN E-70 SERIES ELECTRODES FOR WELDING OF REINFORCING BARS. CONTINUOUS INSPECTION IS REQUIRED OF ALL FIELD WELDING IN ACCORDANCE WITH C.B.C. CHAPTER 17.

CONCRETE NOTES

- 1. ALL CONCRETE FOR THE RESERVIR STRUCTURE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS. REFER TO THE PROJECT SPECIFICATIONS FOR THE REQUIREMENTS FOR OTHER CONCRETE. AGGREGATES SHALL CONFORM TO ASTM C33.
- 2. CEMENT FOR CONCRETE SHALL BE TYPE V PORTLAND CEMENT CONFORMING TO A.S.T.M. C150.
- 3. CONCRETE COVER FOR REINFORCING BARS SHALL BE: CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3" EXPOSED TO EARTH OR WEATHER: NO. 6 THROUGH NO. 18 BARS = 2" NO. 5 BARS, W31 OR D31 WIRE, AND SMALLER = 1 1/2" NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: SLABS, WALLS, JOISTS: NO. 14 AND NO. 18 BARS = 1 1/2" NO. 11 BARS AND SMALLER = 3/4" BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS = 1 1/2"
- DRYPACK SHALL BE 1 PART CEMENT AND 3 PARTS SAND (BY VOLUME).
- 5. NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES THROUGH WALLS AND FLOORS.
- 6. THE LOCATION OF ALL CONSTRUCTION JOINTS NOT SPECIFICALLY NOTED OR SHOWN SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
- 7. "ROUGHENED SURFACES". WHERE SPECIFIED ON THE DRAWINGS. SHALL BE MECHANICALLY ROUGHENED SUCH THAT A 1/4" AMPLITUDE (±) IS ACHIEVED BETWEEN HIGH AND LOW SPOTS OF THE ROUGHENED SURFACE. THE SURFACE SHALL BE CLEAN AND FREE OF LAITANCE
- 8. BOTH FACES OF CONCRETE WALLS, EDGES OF CONCRETE FOUNDATIONS, AND OTHER FORMED CONCRETE SURFACES WHERE THE CONCRETE COVER IS SPECIFIED AS LESS THAN 3 INCHES, SHALL BE PLACED AGAINST FORMWORK WHICH COMPLIES WITH THE PROJECT SPECIFICATIONS. CONCRETE FOR THESE ELEMENTS SHALL NOT BE CAST AGAINST EARTH.

STEEL NOTES

- 1. ALL WIDE FLANGE MEMBERS SHALL BE IN ACCORDANCE WITH ASTM A-992. ALL OTHER STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE ASTM A36 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL STRUCTURAL STEEL IN ACCORDANCE WITH CBC SECTION 1705.2.1, UNLESS FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION, IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTION 1704.2.5.2 OF THE 2019 CBC. AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE ENGINEER STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 2. STEEL TUBES SHALL CONFORM TO A.S.T.M. A500, GRADE B OR BETTER, UNLESS NOTED OTHERWISE.
- 3. STEEL PIPES SHALL CONFORM TO ASTM A53, GRADE B.
- BOLTS SHALL CONFORM TO ASTM A307 OR BETTER, UNLESS NOTED OTHERWISE.
- 5. HOLES FOR BOLTS IN STEEL SHALL BE OF SAME DIAMETER AS BOLT +1/16" MAXIMUM.
- 6. ALL WELDING SHALL BE SHIELDED ARC TYPE AND SHALL BE PERFORMED BY A CERTIFIED WELDER IN A FABRICATION SHOP REGISTERED AND APPROVED IN ACCORDANCE WITH NOTE 1 ABOVE. CONTINUOUS INSPECTION IS REQUIRED OF ALL FIELD WELDING IN ACCORDANCE WITH AWS D1.1.
- 7. NO STRUCTURAL STEEL MEMBER SHALL BE CUT FOR PIPES, DUCTS, ETC. UNLESS SPECIFICALLY DETAILED AND APPROVED BY STRUCTURAL ENGINEER.
- 8. STAINLESS STEEL SHALL CONFORM TO A.S.T.M. A276/A.I.S.I. 316. STAINLESS STEEL BOLTS SHALL CONFORM TO A.S.T.M. F593. STAINLESS STEEL NUTS SHALL CONFORM TO A.S.T.M. F594.
- 9. WELDING OF STAINLESS STEEL SHALL CONFORM TO STRUCTURAL WELDING CODE - STAINLESS STEEL, ANSI/AWS D1.6-07.
- 10. WHERE SPECIFIED, USE OF HIGH-STRENGTH BOLTS SHALL CONFORM TO THE PROVISIONS OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING
- A.S.T.M. A325 OR A490 BOLTS" APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS OF THE ENGINEERING FOUNDATION (RCSC). SPECIAL INSPECTION OF HIGH-STRENGTH BOLT CONNECTIONS IS REQUIRED.
- 11. ALL NON-STAINLESS STEEL THAT IS NOT SCHEDULED TO BE PAINTED, SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 OR A153, AS APPLICABLE. REPAIR OF DAMAGED GALVANIZED COATING SHALL BE IN ACCORDANCE WITH ASTM A780. ALL OTHER NON-STAINLESS STEEL SHALL BE COATED WITH TWO COATS OF SHOP APPLIED PRIMER THAT IS COMPATIBLE WITH THE TOP COATS. REFER TO THE PROJECT SPECIFICATIONS.
- 12. WELDING EQUIPMENT SHALL BE CHECKED PRIOR TO WELDING AS REQUIRED BY AISC 360-16 TABLE N5.4-1.
- 13. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED SHALL BE PERFORMED AS REQUIRED BY AISC 360-16 TABLE N5.6-1

ADHESIVE ANCHORS (SIMPSON)

- 1. ADHESIVE ANCHORS SHALL BE "SET-3G" ADHESIVE ANCHORS, MANUFACTURED BY SIMPSON STRONG-TIE.
- 2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH I.C.C. **EVALUATION REPORT No. 4057.**
- 3. SPECIAL INSPECTION PER CHAPTER 17 OF THE CALIFORNIA BUILDING CODE SHALL BE PROVIDED DURING ANCHOR INSTALLATION.
- 4. AN ALTERNATIVE ADHESIVE ANCHOR PRODUCT MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL, PROVIDED THAT IT HAS A CURRENT I.C.C. **EVALUATION REPORT APPROVAL.**
- 5. ALL ABANDONED HOLES SHALL BE FILLED WITH A DRYPACK GROUT A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI. THE FILLED HOLE(S) SHALL BE PREPARED AND CLEANED AS REQUIRED BY THE GROUT MANUFACTURER.
- 6. LOCATE EXISTING REINFORCING USING A NON-DESTRUCTIVE METHOD (PACHOMETER OR OTHER), PRIOR TO STEEL FABRICATION OF THE AFFECTED COMPONENTS ANDPRIOR TO DRILLING HOLES FOR ANCHORS. MAINTAIN A MINIMUM CLEARANCE OF 1" BETWEEN THE REINFORCEMENT AND THE ANCHOR. NOTIFY ENGINEER IF ADHESIVE ANCHORS CANNOT BE INSTALLED DUE TO REBAR INTERFERENCE(S) SO STRUCTURAL STEEL DETAILING SHOWN HEREON CAN BE MODIFIED TO ACOMODATE.

CEMENT SLURRY BACKFILL

- 1. CEMENT SLURRY MAY BE USED IN LIEU OF COMPACTED SOIL BACKFILL ONLY WHERE INDICATED ON THE PLANS.
- 2. CEMENT SLURRY SHALL CONSIST OF TYPE II CEMENT IN ACCORDANCE WITH A.S.T.M. C-150, WATER AND AGGREGATE. AGGREGATE SHALL BE EITHER EXCAVATION MATERIAL FREE OF ORGANIC MATERIAL OR COMMERCIAL QUALITY CONCRETE SAND CONFORMING TO A.S.T.M. C-33 FOR FINE AGGREGATE. IF EXCAVATED MATERIAL IS USED FOR THE SLURRY AGGREGATE, IT SHALL MEET THE FOLLOWING GRADING REQUIREMENTS:

PCT. PASSING SIEVE SIZE 80 - 100 60 - 100 3/8" 50 - 100 No. 4 40 - 80

- 3. THE MINIMUM AMOUNT OF CEMENT SHALL NOT BE LESS THAN 2 SACKS (188 LBS.) PER CUBIC YARD OF SLURRY. ENOUGH WATER SHALL BE ADDED TO PRODUCE A FLUID, WORKABLE MIX THAT WILL FLOW AND CAN BE PUMPED WITHOUT SEGREGATION OF THE AGGREGATE WHILE BEING PLACED.
- 4. THE CEMENT SLURRY SHALL BE PLACED WITHIN ONE HOUR OF BEING MIXED.
- 5. A MINIMUM OF 4 HOURS SHALL ELAPSE PRIOR TO THE PLACEMENT OF BACKFILL ON THE CEMENT SLURRY.

<u>DESIGN CRITERIA:</u>

DESIGN CODES AND REFERENCES:

-CALIFORNIA BUILDING CODE, 2019 EDITION -ASCE/SEI 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES

-ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE -ACI 350 CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE

STRUCTURES -ACI 350.3 SEISMIC DESIGN OF LIQUID CONTAINING CONCRETE STRUCTURES

ROOF LOADING:

DEAD LOAD = 5 PSF (SOLAR PANEL ALLOWANCE)

SELF WEIGHT OF CONCRETE DEAD LOAD = 113 PSF (9 INCH CONCRETE SLAB) LIVE LOAD = 100 PSF (ROOF SLAB DESIGN ONLY)

LIVE LOAD = 40 PSF (COLUMN AND WALL DESIGN ONLY)

SEISMIC DESIGN PARAMETERS:

ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE

LOCATION: LAT. 34.447750 N, LONG. 119.617518 W

RISK CATEGORY: IV SITE CLASS: D (DEFAULT)

Ss = 2.089SDS = 1.671 Fa = 1.200 Fv = 1.700SD1 = 0.773Ss = 2.089

Sai = 1.671 Ri = 2.00Cs = 1.253Rc = 1.00Sac = 0.023Cs = 0.034

IE = 1.50

GEOTECHNICAL PARAMETERS:

BASED GEOTECHNICAL DESIGN ON TABLE 1806.2 IN CBC 2019 CLASS 3 ALLOWABLE BEARING PRESSURE = 3000 PSF

(INCREASED BY ONE-THIRD FOR SEISMIC LOADING CONDITION)

SOIL LATERAL LOAD

- AT-REST PRESSURE = 60 PSF/FT (SANDY / GRAVELY SOIL PER ASCE 7-16 TABLE 3.2-1
- FOOTNOTE B.) SOIL SEISMIC PRESSURE = 30.5 PSF/FT (ASSUMED - UNIFORMLY DISTRIBUTED LOAD)

TETRA TECH

www.tetratech.com

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Phone: (909) 305-2930 Fax: (909) 305-2959



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MONTECITO WATER DISTRICT RESERVOIR SEISMIC RETROFIT AND REPLACEMENT PROJECT FOR PARK LANE RESERVOIR

GENERAL STRUCTURAL NOTES

Checked By:

Project No.: 200-106490-2100

Designed By

Drawn By:

THE SPECIAL INSPECTOR SHALL BE CERTIFIED BY THE INTERNATIONAL CODE COUNCIL (I.C.C.) TO PERFORM INSPECTION FOR THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.

THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND/OR THE ENGINEER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE STRUCTURAL ENGINEER AND TO THE BUILDING OFFICIAL.

THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE. IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THIS CODE.

IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE AT LEAST 48 HOURS ADVANCE NOTICE TO THE OWNER/OWNER'S REPRESENTATIVE WHEN HIS WORK IS READY FOR ANY REQUIRED SPECIAL INSPECTIONS.

SHOP INSPECTION OF STEEL CONSTRUCTION IS NOT REQUIRED WHEN THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

CONTRACTOR RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

OWNER OR OWNER'S REPRESENTATIVE SHALL BE SYNONYMOUS WITH 'BUILDING OFFICIAL' IN THE FOREGOING IF THE PROJECT IS NOT UNDER THE JURISDICTION OF A BUILDING DEPARTMENT

SPECIAL INSPECTION SHALL BE PROVIDED FOR THE FOLLOWING TYPES OF WORK PERFORMED IN THE FIELD, OR NOT PERFORMED IN AN APPROVED FABRICATION SHOP AS DEFINED ABOVE. UNLESS NOTED AS "N/A".

> SPECIAL INSPECTIONS REQUIRED (■ YES □ N0)

CONT PERIODIC N/A

| REQUIRED VERIFICATION AND INSPECTION OF SOILS (TO BE PERFORMED BY A LICENSED | | | | |
|---|--|--|--|--|
| THE COURSE OF THE PROPERTY OF | | | | |
| GEOTECHNICAL ENGINEER): | | | | |
| 1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE | | | | |

| • • | VERMI THINKIES BELOW STINEEOUT CONDITIONS THE REGION ETC. | | |
|-----|---|--|--|
| | THE DESIGN BEARING CAPACITY | | |
| 2. | VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND | | |
| | HAVE REACHED PROPER MATERIAL. | | |
| 3. | PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL | | |
| | MATERIALS | | |
| 4. | PERFORM CLASSIFICATION AND TESTING OF NATIVE SOILS TO | | |
| | VERIFY ANY SOIL PROPERTIES ASSUMED AS PART OF DESIGN | | |
| | FOR THIS PROJECT IN THE ABSENCE OF A SOILS REPORT | | |
| | (SEE SOIL PROPERTIES ON THIS DRAWING). THIS TESTING | | |
| | | | |

| SHALL BE PERFORMED IN ADVANCE OF ANY CONSTRUCTION. THE | |
|---|--|
| STRUCTURAL ENGINEER SHALL BE NOTIFIED IF THE ASSUMED | |
| VALUES ARE NOT VALID | |
| 5. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT | |
| THICKNESSES DURING PLACEMENT AND COMPACTION OF | |
| COMPACTED FILL | |
| 6. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE | |
| AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY | |
| | |

| NCRETE CONSTRUCTION: | |
|----------------------|----|
| INSPECT REINFORCMENT | IN |

| 1 | I. INSPECT REINFORCMENT, INCLUDING PRESTRESSING | | | |
|---|--|----------------|---|--|
| | TENDONS, AND PLACEMENT. | | | |
| , | , | Ш | _ | |
| 4 | 2. REINFORCING BAR WELDING: | | | |
| | A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 | \square | | |
| | B. INSPECT SINGLE-PASS FILLET WELD, MAXIMUM 5/16"; AND | \square | | |
| | C. INSPECT ALL OTHER WELDS. | \blacksquare | | |
| 3 | B. INSPECTION OF ANCHORS CAST IN CONCRETE | 🗆 | | |
| 4 | 4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS | | | |
| | A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED | | | |
| | ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS | | | |

| | ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS |
|----|---|
| | B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A |
| 5. | VERIFYING USE OF REQUIRED DESIGN MIX |
| 6. | PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, |
| | PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF |
| | THE CONCRETE |
| 7. | INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION |
| | TECHNIQUES |
| _ | VEDIEV MAINTENANCE OF OPERIFIED OURING TEMPERATURE AND TEXTIFICATION |

| | INOI LOT CONCILIE AND CHOTCHETE LACEMENT FOR THOSE LIVAL FLOATION | |
|----|--|--|
| | TECHNIQUES | |
| | VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES | |
| | INSPECT PRESTRESSED CONCRETE FOR: | |
| | A. APPLICATION OF PRESTRESSING FORCES; AND | |
| | B. GROUTING OF BONDED PRESTRESSING TENDONS. | |
|). | INSPECT ERECTION OF PRECAST CONCRETE MEMBERS | |
| ١. | VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN | |
| | | |

| VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN |
|--|
| POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS |
| FROM BEAMS AND STRUCTURAL SLABS |
| INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE |
| MEMBER BEING FORMED |

| NSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE | |
|--|--|
| MEMBER BEING FORMED | |
| | |

STEEL CONSTRUCTION (STRUCTURAL STEEL): R - INSPECT THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS

| THOI EOT THESE TEMS ON A SONTHING GOOD BASIS | С | |
|---|---|-----|
| INSPECTION TASKS PRIOR TO WELDING | | |
| A. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS | | ſ |
| B. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE | | Ī |
| C. MANUFACTURERS CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE | | [|
| D. MATERIAL IDENTIFICATION (TYPE/GRADE) | | ľ |
| E. WELDER IDENTIFICATION SYSTEM | | - 1 |

- F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY). - JOINT PREPARATION - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)
- CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION)
- BACKING TYPE AND FIT (IF APPLICABLE) G. FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K- JOINTS WITHOUT BACKING
- (INCLUDING JOINT GEOMETRY) - JOINT PREPARATIONS
- DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES)
- TACKING (TACK WELD QUALITY AND LOCATION) H. CONFIGURATION AND FINISH OF ACCESS HOLES
- I. FIT-UP OF FILLET WELDS - DIMENSIONS (ALIGNMENT, GAPS AT ROOT)
- CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION)
- 2. INSPECTION TASKS DURING WELDING
- A. CONTROL AND HANDLING OF WELDING CONSUMABLES...... - PACKAGING
- EXPOSURE CONTROL

C - INSPECT THESE ITEMS ON A CONTINUOUS BASIS

- - WIND SPEED WITHIN LIMITS

- PRECIPITATION AND TEMPERATURE
- D. WPS FOLLOWED.
- SETTINGS ON WELDING EQUIPMENT - TRAVEL SPEED
- SELECTED WELDING MATERIALS - SHIELDING GAS TYPE/FLOW RATE
- PREHEAT APPLIED
- INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)
- PROPER POSITION (F, V, H, OH)
- INTERPASS AND FINAL CLEANING
- EACH PASS WITHIN PROFILE LIMITATIONS
- EACH PASS MEETS QUALITY REQUIREMENTS
- 3. INSPECTION TASKS AFTER WELDING A. WELDS CLEANED .
- CRACK PROHIBITION - WELD/BASE-METAL FUSION
- CRATER CROSS SECTION
- WELD PROFILES
- WELD SIZE - UNDERCUT
- POROSITY
- WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA. VISUALLY INSPECT THE WEB K-AREA
- FOR CRACKS WITHIN 3 IN. (75 MM) OF THE WELD F. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES □ - AFTER ROLLED HEAVY SHAPES (SEE AISC SECTION A3.1C) AND BUILT-UP SHAPES (SEE AISC SECTION A3.1D) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE
- FOR CRACKS G. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED). I. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER J. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR

4. INSPECTION TASKS PRIOR TO BOLTING A. MANUFACTURER'S CERTIFICATION AVAILABLE FOR FASTENER MATERIALS.... B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS. C. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE. BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FORM SHEAR PLANE) D. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS G. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER 5. INSPECTION TASKS DURING BOLTING A. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS ARE POSITIONED AS REQUIRED B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FOR D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID

STEEL CONSTRUCTION (STRUCTURAL STEEL CONT.):

6. INSPECTION TASKS AFTER BOLTING A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONECTIONS 7. INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT A. PLACEMENT AND INSTALLATION OF STEEL DECK B. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS C. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS

| | CONT | PERIODIC | ١ |
|---|------|----------|---|
| ADHESIVE ANCHORS: 1. VERIFY ANCHOR TYPE: | 🗆 | • | |
| 2. VERIFY ADHESIVE IDENTIFICATION AND | 🗆 | • | |
| 3. VERIFY ANCHOR DIMENSIONS: | 🗆 | • | |
| 4. VERIFY CONCRETE TYPE: | 🗆 | | |
| | | | |

- 6. VERIFY HOLE DRILLING METHOD.

 - 10. VERIFY EDGE DISTANCES 11. VERIFY CONCRETE THICKNESS......
 - 12. VERIFY ANCHOR EMBEDMENT.
 - PRINTED INSTALLATION INSTRUCTIONS THE SPECIAL INSPECTOR MUST VERIFY THE INITIAL INSTALLATIONS OF EACH TYPE AND SIZE OF ADHESIVE

ANCHOR INSTALLED BY THE CONSTRUCTION PERSONNEL ON SITE. SUBSEQUENT INSTALLATIONS OF THE SAME ANCHOR TYPE AND SIZE BY THE SAME CONSTRUCTION PERSONNEL MAY BE PERMITTED, WITH THE APPROVAL OF THE ENGINEER AND THE SPECIAL INSPECTOR, TO BE PERFORMED IN THE ABSENCE OF THE SPECIAL INSPECTOR. ANY CHANGE IN THE ANCHOR PRODUCT BEING INSTALLED OR THE PERSONNEL PERFORMING THE INSTALLATION REQUIRES AN INITIAL INSPECTION. FOR ONGOING INSTALLATIONS OVER AN EXTENDED PERIOD, THE SPECIAL INSPECTOR MUST MAKE REGULAR INSPECTIONS TO CONFIRM CORRECT HANDLING AND INSTALLATION OF THE PRODUCT. THE SPECIAL INSPECTOR SHALL INFORM THE ENGINEER OF THE FREQUENCY OF THE PERIODIC ANCHOR INSPECTIONS. THE ENGINEER MAY REQUEST ADDITIONAL INSPECTIONS AT ANY

STRUCTURAL OBSERVATION

THE STRUCTURAL ENGINEER, OR ANOTHER ENGINEER DESIGNATED BY THE STRUCTURAL ENGINEER SHALL BE RETAINED BY THE OWNER TO PERFORM STRUCTURAL OBSERVATION AS REQUIRED BY C.B.C. CHAPTER 17. STRUCTURAL OBSERVATION SHALL BE PROVIDED DURING THE STAGES OF CONSTRUCTION LISTED BELOW. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AT LEAST 48 HOURS ADVANCE NOTICE TO THE STRUCTURAL ENGINEER WHEN HIS WORK IS READY FOR STRUCTURAL OBSERVATION FOR EACH OF THESE STAGES.

| REINFORCING STEEL AND EMBEDDED STRUCTURAL ANCHORAGES PRIOR TO PLACEMENT OF CONCRETE FOR THE FOLLOWING: |
|--|
| A. FOUNDATIONS B. SLABS-ON-GRADE (EXCEPT SITE PAVING AND |
| FLATWORK) |
| C. WALLS |
| D. STRUCTURAL FLOOR SLABS AND BEAMS NOT |
| SUPPORTED ON-GRADE |
| E. ROOF SLABS AND BEAMS |

STRUCTURAL OBSERVATIONS

REQUIRED (■ YES □ N0)

. □ N/A

2. STRUCTURAL STEEL:

CONCRETE:

A. ERECTED COLUMN, BEAMS AND GIRDERS, PRIOR TO INSTALLATION OF ROOF AND FLOOR JOISTS,

DEFERRED SUBMITTALS/CERTIFICATIONS

| 1. | OFF-SITE FABRICATION: FABRICATORS SHALL BE CITY, COUNTY AND/OR C.B.C. APPROVED FABRICATORS. FABRICATORS | SUBMITTALS REQUIRED (■ YES | □ NO |
|----|---|-------------------------------|-------------------------|
| | FOR ALL OFFSITE FABRICATION OF THE ITEMS LISTED BELOW: | | |
| | A. TRUSSES B. GLU-LAMINATED MEMBERS C. PRECAST CONCRETE D. STRUCTURAL STEEL (MILL REPORTS AND IDENTIFI OF STEEL, AFFIDAVIT OF COMPLIANCE) E. OTHER: | [| □ N/A □ N/A □ N/A |
| 2. | DEFERRED SUBMITTALS: | | |

SUBMITTAL DOCUMENTS FOR THE DEFERRED SUBMITTAL ITEMS LISTED BELOW SHALL BE DESIGNED BY A LICENSED PE OR SE AND SUBMITTED BY THE CONTRACTOR TO THE BUILDING DEPARTMENT/APPROVAL AGENCY AND STRUCTURAL ENGINEER

| FOR REVIEW AND APPROVAL. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. | |
|--|---|
| A. PREFABRICATED TRUSSES | N |

| A. PREFABRICATED TRUSSES | | | | | |
|-------------------------------|------|------|--|---|--|
| B. PRECAST VAULTS | | | | | |
| C. OTHER: PRECAST CONC. PILES | | | | ٠ | |

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MONTECITO WATER DISTRICT RESERVOIR SEISMIC RETROFIT AND REPLACEMENT PROJECT FOR PARK LANE RESERVOIR

SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATIONS

| | S- | 002 |
|---|--------------|------------------|
| | Checked By: | VMR |
| | Drawn By: | EJH |
| _ | Designed By | : GH |
| | Project No.: | 200-106490-21001 |

S-102 FOUNDATION DEMOLITION PLAN SCALE: 1/8"=1'-0" NOTE: THE DIMENSIONS SHOWN ON THESE PLAN ARE BASED RECORD DRAWINGS AND SURVEY

INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

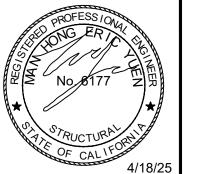
KEYNOTES:

- 1. CONCRETE FLOOR SLAB, PROTECT IN PLACE. (POWER WASH AND REMOVE ALL SILL ON FLOOR SLAB).
- 2. REMOVE AND DISPOSE OF EXISTING 3 1/2" DIAMETER CONCRETE FILLED STEEL COLUMNS AND CONCRETE PEDESTALS, TYPICAL OF 48.
- 3. EXISTING CONCRETE WALL, PROTECT IN PLACE. PROVIDE TEMPORARY SHORNING, BRACING, UNDERPINNING, ETC. AS REQUIRED TO MAINTAIN THE ALIGNMENT, POSITION AND INTEGRITY OF THE EXISTING WALLS.
- CUT OFF EXISTING LADDER RUNGS FLUSH WITH FACE OF EXISTING WALL, REMOVE AND DISPOSE. TYPICAL AT FOUR LOCATIONS.
- 5. REMOVE AND DISPOSE OF EXISTING 2x8 WOOD ROOF JOISTS @ 46" ON
- 6. REMOVE AND DISPOSE OF EXISTING DOUBLE 2x10 WOOD GIRDERS.
- 7. REMOVE AND DISPOSE OF EXISTING CORRUGATED GALVANIZED STEEL ROOFING PANELS.

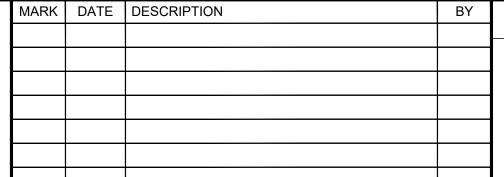


Phone: (909) 305-2930 Fax: (909) 305-2959

San Dimas, California, 91773







SCALE: 3/16"=1'-0"

MONTECITO WATER DISTRICT RESERVOIR SEISMIC RETROFIT AND REPLACEMENT PROJECT FOR PARK LANE RESERVOIR

ROOF FRAMING DEMOLITION PLAN

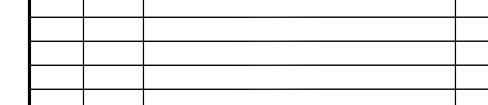
DEMOLITION PLAN

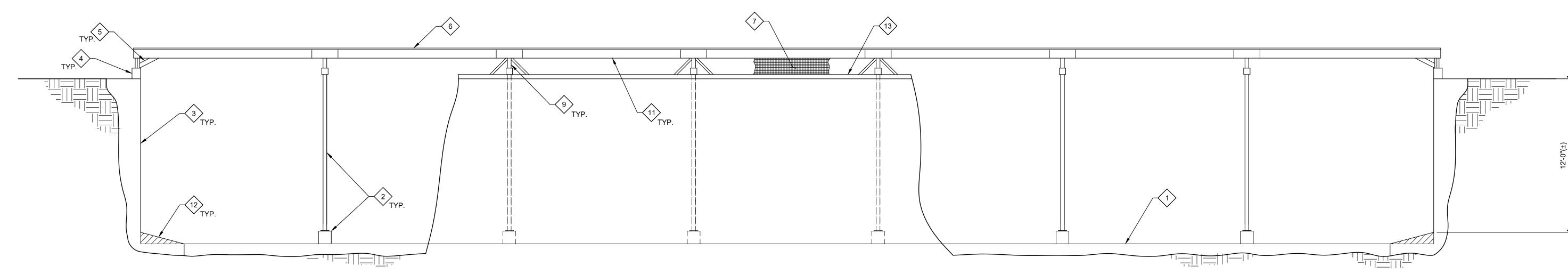
Checked By:

Project No.: 200-106490-2100

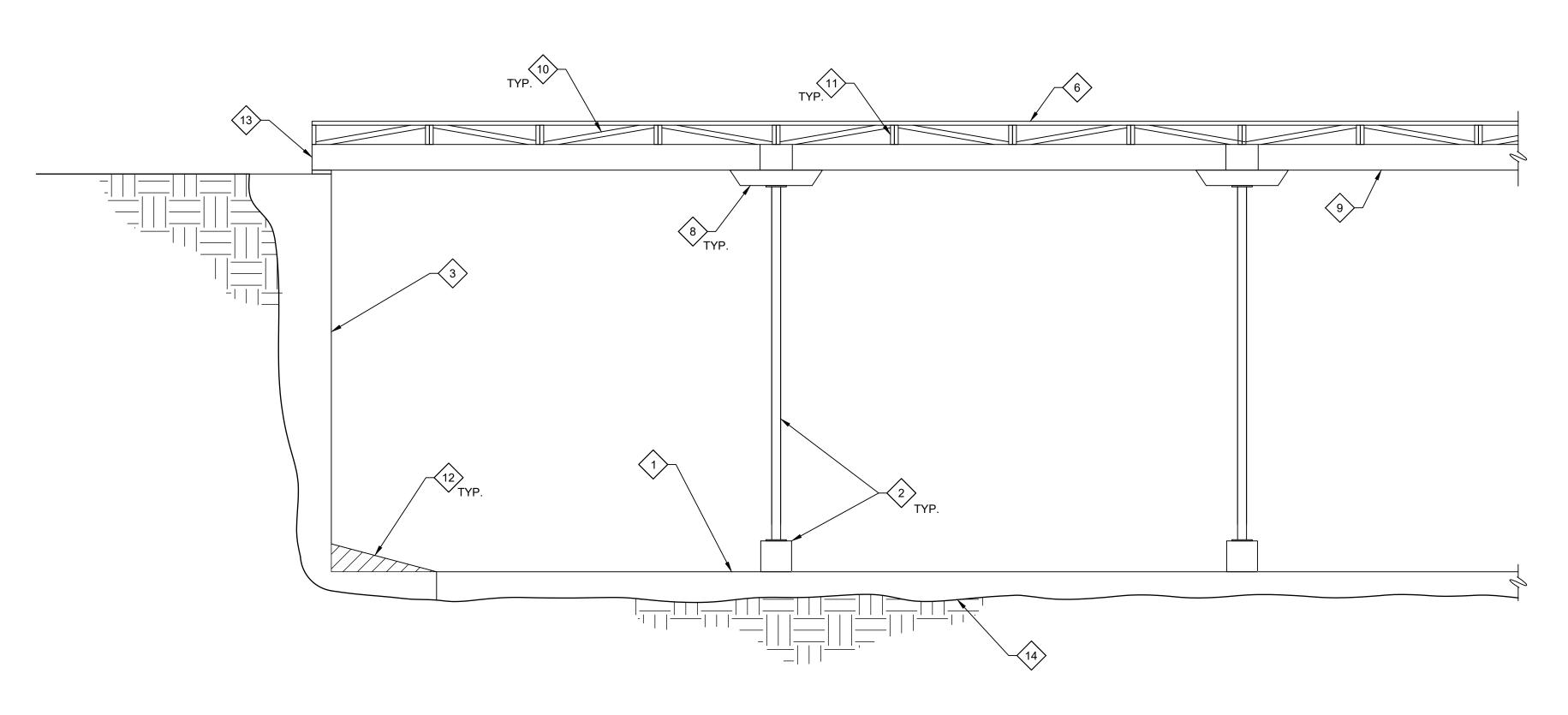
Designed By:

Drawn By:

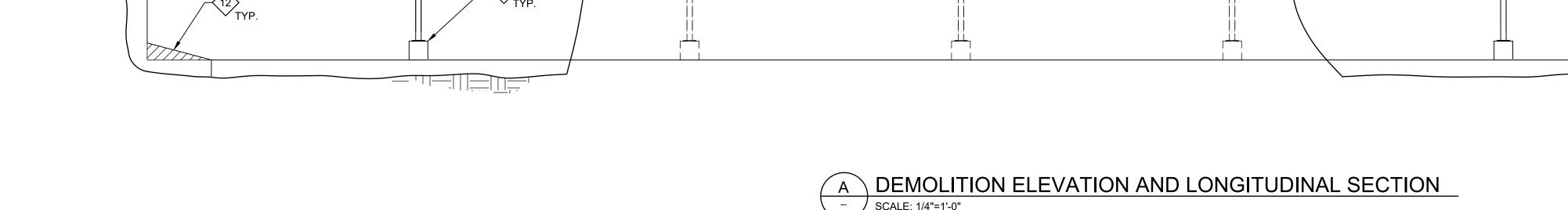




- SCALE: 1/4"=1'-0"



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



KEYNOTES:

- CONCRETE FLOOR SLAB, PROTECT IN PLACE. (POWER WASH AND REMOVE ALL SILL ON THE FLOOR SLAB).
- REMOVE AND DISPOSE OF EXISTING 3 1/2" DIAMETER CONCRETE FILLED STEEL COLUMNS AND CONCRETE PEDESTALS (CUT PEDESTAL FLUSH WITH TOP OF CONCRETE FLOOR SLAB), TYPICAL OF 48.
- 3. EXISTING CONCRETE WALL, PROTECT IN PLACE.
- 4. REMOVE AND DISPOSE OF EXISTING CONCRETE CURB.
- 5. REMOVE AND DISPOSE OF EXISTING 2x4 WOOD BRACES.
- REMOVE AND DISPOSE OF EXISTING CORRUGATED GALVANIZED STEEL
- REMOVE AND DISPOSE OF EXISTING GALVANIZED STEEL SCREEN ON ALL FOUR SIDES OF RESERVOIR.
- 8. REMOVE AND DISPOSE OF EXISTING 3'-0" LONG 6x6 WOOD CORBEL AT TOPS OF COLUMNS.
- 9. REMOVE AND DISPOSE OF EXISTING DOUBLE 2x10 WOOD GIRDERS.
- 10. REMOVE AND DISPOSE OF EXISTING 2x4 WOOD BRACES.
- 11. REMOVE AND DISPOSE OF EXISTING 2x8 WOOD ROOF JOISTS @ 46" ON CENTER.
- 12. SHAVE OFF AND LEVEL TOP OF EXISTING WALL FOOTING FOR NEW WALL FOOTING CONSTRUCTION.
- 13. REMOVE AND DISPOSE OF EXISTING SILL PLATE.
- 14. G.C. TO PERFORM GROUND PENETRATING RADAR (GPR) SCAN TO THE EXISTING FLOOR SLAB TO CONFIRM THERE ARE NO VOID SPACE UNDER THE EXISTING SLAB. IF VOID IS DETECTED, PROVIDE A HEAT MAP SHOWING THE LOCATION OF THE VOID AND REMEDIATE THE VOID AS OUTLINED BELOW. IF THE AREA OF THE VOID IS LESS THAN 25 SQFT, REMEDIATE BY POLYURETHANE FOAM INJECTION. POLYURETHANE FOAM USED FOR INJECTION SHALL HAVE A MINIMUM DENSITY OF 4 PCF PER ASTM D1622 AND A MINIMUM PEAK COMPRESSIVE STRENGTH OF 100 PSI PER ASTM D1621. IF THE AREA OF THE VOID IS LARGER THAN 25 SQFT, REMEDIATE BY SAW CUT AND REMOVE THE EXISTING SLAB, THEN OVER EXCAVATE 2 FT OF SOIL, AND BACK FILL WITH A 2 SACK SLURRY.







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MONTECITO WATER DISTRICT RESERVOIR SEISMIC RETROFIT AND REPLACEMENT PROJECT FOR PARK LANE RESERVOIR

DEMOLITION SECTIONS AND ELEVATION

Checked By:

Project No.: 200-106490-2100

Designed By:

Drawn By:

