

Plot Date: 24-APR-2018 12:19:28 PM User: svcpw Model: Layout1 ColorTable: gahade.ctb DesignScript: Carollo Std Pen\_v0905.pen PlotScale: 2:1 LAST SAVED BY: Jefeve

**GENERAL NOTES:**

- 1. USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH PROJECT DRAWINGS BY OTHER DISCIPLINES AND WITH THE SPECIFICATIONS.
2. UNLESS DETAILED, SPECIFIED, OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE GENERAL NOTES AND TYPICAL DETAILS.
3. PRESENTATION CONVENTIONS FOR STRUCTURAL DRAWINGS:
A. SCREENED LINE WORK INDICATES EXISTING CONDITIONS.
B. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES.
C. PLANS ARE TREATED AS HORIZONTAL SECTIONS. (I.E.: "PLAN AT ELEVATION 110" SHOWS CONSTRUCTION AT AND BELOW ELEVATION 110.)
4. VERIFY DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK. ADVISE ENGINEER IMMEDIATELY OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DIMENSIONS, AND INFORMATION SHOWN ON THESE DRAWINGS. CONFIRM THE FOLLOWING BEFORE PREPARATION AND SUBMITTAL OF SHOP DRAWINGS:
A. DIMENSIONS AND WEIGHTS FOR EQUIPMENT SELECTED.
B. SIZES AND LOCATIONS OF EQUIPMENT PADS FOR EQUIPMENT SELECTED.
5. TYPICAL DETAILS ARE INCLUDED ON THE "TS" DRAWINGS.
A. TYPICAL DETAILS ARE INTENDED TO APPLY AT LOCATIONS DESCRIBED BY THEIR TITLES, EVEN WHEN NOT SPECIFICALLY REFERENCED ON THE DRAWINGS.
B. IN STRUCTURAL TYPICAL DETAILS, ORIENTATION OF BARS IN EACH MAT OF REINFORCEMENT (WHETHER "LINES" OR "DOTS" ARE CLOSER TO THE FACE OF THE CONCRETE) IS GENERALLY ARBITRARY. SEE DRAWINGS OF EACH STRUCTURE FOR ORIENTATION REQUIRED AT THAT STRUCTURE.
6. SEE CIVIL DRAWINGS FOR STRUCTURE COORDINATES. POINTS ON THE STRUCTURES TO WHICH SITE COORDINATES REFER ARE SHOWN ON THE STRUCTURAL PLANS.
7. DRAWINGS PREPARED BY OTHER DISCIPLINES INCLUDE OPENINGS, ANCHORS, PIPES, CONDUITS, AND OTHER ITEMS THAT ARE EMBEDDED INTO OR PASS THROUGH STRUCTURES.
A. CONFIRM SIZE AND LOCATIONS OF OPENINGS, PENETRATIONS AND EMBEDMENT FOR ITEMS AND EQUIPMENT FURNISHED.
B. IN GENERAL, OPENINGS, EMBEDMENTS, AND PENETRATIONS LESS THAN 12 INCHES IN DIAMETER ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.
C. SEE MECHANICAL DRAWINGS FOR DETAILS OF PIPE PENETRATIONS, PIPE SUPPORTS, AND ASSOCIATED STRUCTURAL REQUIREMENTS.
D. SEE MECHANICAL DRAWINGS FOR EQUIPMENT PADS AND PIPE SUPPORTS.
8. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND SIZES OF DOOR AND WINDOW OPENINGS (UNO).

**STRUCTURAL DESIGN CRITERIA - GENERAL:**

SEE DRAWINGS OF INDIVIDUAL STRUCTURES FOR SPECIFIC DESIGN CRITERIA BASED ON THESE OVERALL CRITERIA FOR THE SITE.

- 1. BUILDING CODE:
A. 2015 INTERNATIONAL BUILDING CODE ("IBC 2015") WITH ASCE 7-10.
B. LOCAL AMENDMENTS: NONE.
2. STRUCTURE RISK CATEGORY: III
3. DEAD LOADS: CALCULATED FOR STRUCTURE SELF-WEIGHT.
4. LIVE LOADS: (REDUCTIONS NOT USED)
A. FLOOR LIVE LOAD: SEE PLANS.
B. GRATING AND CHECKERED PLATE: 100 PSF (UNO).
C. ROOF LIVE LOAD: SEE PLANS.
D. EQUIPMENT LOADS: SEE PLANS.
E. CONCENTRATED AND IMPACT LOADS: SEE PLANS.
5. FLUID PRESSURE LOADS: 62.4 PSF/FT (UNO).
6. SNOW LOAD DATA:
A. GROUND SNOW LOAD, Pg = 55 PSF.
B. SNOW EXPOSURE FACTOR, Ce = 1.0.
C. FLAT ROOF SNOW LOAD: 44 PSF (MINIMUM).
D. IMPORTANCE FACTOR: 1.10
7. WIND DESIGN DATA:
A. SPECIAL WIND REGION: NO
B. WIND-BORNE DEBRIS REGION: NO
C. ULTIMATE DESIGN WIND SPEED (3 SEC GUST, 33 FEET ABOVE GROUND): 120 MPH.
D. WIND EXPOSURE CATEGORY: C
8a. EARTHQUAKE DESIGN DATA - MAIN PLANT:
A. SITE CLASS: E.
B. MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss = 1.012 g S1 = 0.317 g
C. SITE COEFFICIENTS: Fa = 0.90 Fv = 2.73
D. MAXIMUM CONSIDERED ACCELERATIONS: Sms = 0.913 g Sm1 = 0.866 g
E. DESIGN SPECTRAL RESPONSE ACCELERATIONS: Sds = 0.609 g Sd1 = 0.579 g (\* 5% DAMPED)
F. IMPORTANCE FACTOR: 1.25
8b. EARTHQUAKE DESIGN DATA - EXISTING HEADWORKS:
A. SITE CLASS: E.
B. MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss = 1.002 g S1 = 0.315 g
C. SITE COEFFICIENTS: Fa = 0.90 Fv = 2.74
D. MAXIMUM CONSIDERED ACCELERATIONS: Sms = 0.902 g Sm1 = 0.864 g
E. DESIGN SPECTRAL RESPONSE ACCELERATIONS: Sds = 0.601 g Sd1 = 0.575 g (\* 5% DAMPED)
F. IMPORTANCE FACTOR: 1.25
9. FLOOD LOADS:
A. FLOOD HAZARD AREA: YES / NO
10. RAIN LOADS:
A. DESIGN RAINFALL INTENSITY: i = 0.0 INCHES / HOUR. (100 YEAR/1 HOUR EVENT)

**11. ICE LOADS:**

A. NOT APPLICABLE.

**12. CONSTRUCTION LOADS:**

STRUCTURES HAVE BEEN DESIGNED FOR OPERATING LOADS ON COMPLETED FACILITIES. UNTIL CONSTRUCTION IS COMPLETE AND MEMBERS HAVE ACHIEVED THEIR DESIGN STRENGTH, PROTECT STRUCTURES AS REQUIRED BY SHORING, BRACING, AND BALANCING.

**GEOTECHNICAL REPORT / FOUNDATION DESIGN CRITERIA:**

**1. GEOTECHNICAL INVESTIGATION REPORT:**

TITLE: GEOTECHNICAL INVESTIGATION LOGAN WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT

PREPARED BY: IGES. REPORT NO: 00823-017 DATED: JUNE 9, 2017.

**2. FOUNDATION DESIGNS ARE BASED ON RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION REPORT.**

- A. NET ALLOWABLE BEARING PRESSURE SEE PLANS.
B. LATERAL EARTH PRESSURE (UNO): SURCHARGE: EQUIVALENT TO 2 FEET OF SOIL ABOVE FINISHED GRADE.

Table with 4 columns: CONDITION, LOADING PROFILE, HT OF ACTION, NATIVE SOILS (7 sat, 115 PCF, LATERAL PRESSURE COEFFICIENT, EQUIVALENT FLUID DENSITY (PCF)). Rows include STATIC AT-REST, ACTIVE, PASSIVE, and SEISMIC conditions.

A. VALUES REFLECT SUBMERGED SOIL PRESSURE ONLY, CONTRIBUTION OF WATER MUST BE ADDED
B. WHERE APPLICABLE, TRAFFIC SURCHARGE = 250 psf \* Ka. SHOULD BE ADDED UNIFORMLY, HEIGHT OF ACTION = HEIGHT \* 0.5
C. BASED ON 7sat, COMBINED WEIGHT OF WATER AND SOIL. DO NOT ADD CONTRIBUTION OF WATER

**NOTES:**

LOADING PROFILE - NOTE 1=TRIANGULAR, 2=INVERTED TRIANGLE
HEIGHT OF ACTION - NOTE 3=HEIGHT \* 1/3, NOTE 4=HEIGHT \* 2/3

**TYPICAL STRUCTURAL MATERIALS:**

- 1. MATERIALS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
2. SEE PROJECT SPECIFICATIONS AND NOTES ON DRAWINGS OF SPECIFIC STRUCTURES FOR DETAILED AND LOCATION-SPECIFIC REQUIREMENTS.

**REINFORCING STEEL (FOR CONCRETE AND MASONRY):**

- 1. DEFORMED BARS:
A. TYPICAL: ASTM A 615, GRADE 60.
B. WHERE INDICATED ON THE DRAWINGS: ASTM A 706.
2. WELDED WIRE FABRIC: ASTM A 185.
3. PRESTRESSING STRANDS: ASTM A 416, 270 KSI YIELD STRENGTH, 7-WIRE.
4. HORIZ JOINT REINF TYPICAL ASTM A 615 GRADE 60.

**CONCRETE:**

- 1. NORMAL DENSITY.
2. MINIMUM SPECIFIED CONCRETE COMPRESSIVE STRENGTH, fc (AT 28 DAYS UNO).

A. STRUCTURES: "CLASS A" OR "CLASS B" fc = 4500 PSI.
B. FILL, THRUST BLOCKS, PIPE ENCASEMENT: "CLASS C" fc = 2500 PSI.
C. ELECTRICAL DUCT ENCASEMENT: "CLASS CE" fc = 2500 PSI.
D. PRECAST AND PRECAST-PRESTRESSED MEMBERS: "CLASS D" fc = 5000 PSI.

**MASONRY:**

- 1. CONCRETE MASONRY
A. UNITS: ASTM C 90, NORMAL WEIGHT.
B. MORTAR: ASTM C 270, MINIMUM 28-DAY COMPRESSIVE STRENGTH = 1900 PSI.
C. GROUT: ASTM C 476. MINIMUM 28-DAY COMPRESSIVE STRENGTH = 2000 PSI.
D. MINIMUM SPECIFIED COMPRESSIVE STRENGTH, fm (AT 28 DAYS).
1) SOLID GROUTED: fm = 2000 PSI.

**STRUCTURAL STEEL:**

**1. SECTIONS**

- A. SHAPES W, WT: ASTM A 992 (Fy = 50 KSI)
B. SHAPES S, ST, M, MT, HP, C, MC, L: ASTM A 36 (Fy = 36 KSI)
C. PLATES AND BARS: ASTM A 36 (Fy = 36 KSI)
D. PIPES: ASTM A 53, GRADE B (Fy = 35 KSI)
E. HOLLOW STRUCTURAL SECTIONS:
ROUND: ASTM A 500, GRADE B (Fy = 42 KSI)
SQUARE AND RECTANGULAR: ASTM A 500, GRADE B (Fy = 46 KSI)

**2. CONNECTIONS:**

- A. BOLTS - STEEL TO-STEEL:
ASTM A 325 HIGH-STRENGTH BOLTS, WITH LOAD INDICATOR WASHERS.
B. BOLTS - STEEL TO CONCRETE OR MASONRY:
ANCHOR BOLTS WITH HEX FORGED HEAD.
ASTM A193, STAINLESS TYPE 316 (304)
ASTM F 1554, GRADE 36 GALVANIZED.
C. WELDS - SHIELDED METAL ARC PROCESS USING E70-XX ELECTRODES.

**STAINLESS STEEL:**

- 1. ANSI TYPE 316/316L EXCEPT WHERE TYPE 304/304L IS INDICATED ON THE DRAWINGS.
2. SECTIONS: SHAPES AND BARS: ASTM A 276.
3. BOLTED CONNECTIONS - BOLTS AND ANCHOR BOLTS:
A. MATCH ALLOY OF THE STRUCTURAL MEMBERS CONNECTED.
B. TYPE 316/316L: ASTM A 193, GRADE B8M, CLASS 1, HEAVY HEX.
C. TYPE 304/304L: ASTM A 193, GRADE B8, CLASS 1, HEAVY HEX.
4. WELDED CONNECTIONS:
A. TYPE 316L: E316L-15 ELECTRODES.
B. TYPE 304L: E304L-15 ELECTRODES.

**STRUCTURAL ALUMINUM:**

- 1. SECTIONS
A. SHAPES: ASTM B 308, ALLOY 6061-T6.
B. SHEET AND PLATE: ASTM B 209, ALLOY 6061-T6.
2. BOLTED CONNECTIONS - BOLTS AND ANCHOR BOLTS:
A. STAINLESS STEEL - TYPE 316, ASTM A 193, GRADE B8M, CLASS 1, HEAVY HEX.
3. WELDED CONNECTIONS:
A. GAS METAL ARC (MIG) OR GAS TUNGSTEN ARC (TIG) PROCESS USING FILLER ALLOY 4043 ELECTRODES.

**CONSTRUCTION:**

CONFORM TO THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

**EXCAVATION AND BACKFILLING:**

- 1. EXPOSE AND PREPARE SUBGRADE AS SHOWN ON THE DRAWINGS AND SPECIFIED. OBTAIN ENGINEER'S OBSERVATION OF SUBGRADE SURFACES, AS EXPOSED AND AS PREPARED, BEFORE PROCEEDING WITH FOUNDATION CONSTRUCTION.
2. DO NOT PLACE BACKFILL AGAINST WALLS UNTIL STRUCTURES SUPPORTING THE TOP OF THE WALL ARE IN PLACE, ARE COMPLETE, AND (IN THE CASE OF CONCRETE) HAVE CURED TO THEIR MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
3. WHERE BACKFILL MUST BE PLACED AGAINST WALLS BEFORE STRUCTURES ABOVE ARE COMPLETE, PROVIDE BRACING FOR WALLS. KEEP BRACING IN PLACE UNTIL THE STRUCTURE ABOVE IS COMPLETE AND (IN THE CASE OF CONCRETE) HAS CURED TO ITS MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH.

**CONCRETE:**

- 1. SEE S101/TYP FOR CONCRETE NOTES, INCLUDING CLEAR COVER AND LAP SPLICE LENGTH REQUIREMENTS FOR REINFORCING.
2. SUBMIT LOCATIONS OF CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS FOR ACCEPTANCE BY THE ENGINEER BEFORE FORM LAYOUT.
3. PROVIDE CHAMFER AT EXPOSED EDGES OF CAST-IN-PLACE CONCRETE. SEE SPECIFICATION 03102 FOR CHAMFERS.
4. PROVIDE REINFORCING:
A. AT CORNERS AND JUNCTIONS - AS INDICATED IN S144/TYP, SUPPLEMENT WITH ADDED BARS WHERE INDICATED ON THE DRAWINGS.
B. AT OPENINGS - AS INDICATED IN S189/TYP.
5. WELDING OF REINFORCING IS NOT PERMITTED UNLESS DETAILED ON THE DRAWINGS OR ACCEPTED IN ADVANCE BY THE ENGINEER.
6. MAINTAIN MINIMUM 3 INCHES CLEAR CONCRETE COVER BETWEEN REINFORCING AND EMBEDMENTS.
7. FINISH CONCRETE AS SPECIFIED IN SECTION 03366.

**MASONRY:**

- 1. SEE S400 SERIES DETAILS FOR MASONRY NOTES, INCLUDING LAP SPLICE LENGTHS.
2. PROVIDE REINFORCING:
A. AT CORNERS AND JUNCTIONS AS INDICATED IN S412/TYP.
B. AT OPENINGS AS INDICATED IN S410/TYP.
C. AT PIERS AS INDICATED IN S435/TYP.
3. WELDING OF REINFORCING IS NOT PERMITTED UNLESS DETAILED ON THE DRAWINGS OR ACCEPTED IN ADVANCE BY THE ENGINEER.
4. GROUTING:
A. FULLY GROUTED.

**STEEL, STAINLESS STEEL, AND ALUMINUM - CONNECTIONS:**

**1. BOLTED:**

- A. MADE USING 3/4-INCH DIAMETER BOLTS.
B. HAVING A MINIMUM OF 2 BOLTS, SPACED NOT CLOSER THAN 3 INCHES ON CENTER.
C. WITH A DISTANCE OF AT LEAST 1 1/2 INCHES FROM CENTER OF BOLT TO ANY EDGE OF A PLATE OR STRUCTURAL ELEMENT.

**2. WELDED:**

- A. FILLET WELDS: PER AWS CODE BASED ON THE THICKNESS OF THE MATERIALS BEING JOINED, AND FULL LENGTH OF THE JOINT.
3. INTERFACE BETWEEN MATERIALS:
A. AT BOLTED CONNECTIONS THAT INCLUDE DIFFERENT METALS (E.G.: STEEL AND STAINLESS STEEL, OR ALUMINUM AND STAINLESS STEEL) PROVIDE ISOLATING SLEEVES AND WASHERS AS SPECIFIED IN SECTION 05190.
B. WHERE ALUMINUM IS IN CONTACT WITH MASONRY OR CONCRETE, COAT ALUMINUM SURFACES AS SPECIFIED IN SECTION 08960.
4. POST-INSTALLED ANCHORS IN CONCRETE AND MASONRY:
A. INSTALL IN FULL COMPLIANCE WITH ACCEPTED BUILDING CODE EVALUATION REPORT AND MANUFACTURER'S INSTRUCTIONS.
B. DO NOT CUT, DAMAGE, OR INTERRUPT EXISTING REINFORCEMENT TO INSTALL ANCHORS. USE NON-DESTRUCTIVE TESTING EQUIPMENT TO IDENTIFY LOCATIONS OF REINFORCEMENT IN MEMBERS BEFORE DRILLING HOLES FOR ANCHORS.

**METAL FABRICATIONS:**

**1. HANDRAILS AND GUARDRAILS:**

- A. ALUMINUM, EXCEPT WHERE OTHER MATERIALS ARE NOTED.

**2. GRATING:**

- A. ALUMINUM WITH TYPE 316 STAINLESS STEEL FASTENERS, UNLESS OTHERWISE NOTED.
B. GRATING AND ITS SEATS OR SUPPORTS SHALL BE OF THE SAME MATERIAL.
C. UNLESS INDICATED ON THE DRAWINGS AS "REMOVABLE GRATING", SECURELY FASTEN GRATING TO SUPPORTS AS INDICATED IN A414/TYP.

**3. COVER PLATES:**

- A. ALUMINUM WITH TYPE 316 STAINLESS STEEL FASTENERS, UNLESS OTHERWISE NOTED.
B. COVER PLATE AND ITS SEATS OR SUPPORTS SHALL BE OF THE SAME MATERIAL.

**SPECIAL INSPECTION:**

- 1. SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING STRUCTURAL MATERIALS AND CONSTRUCTION. SEE SPECIFICATION SECTION 01455 FOR DETAILS.
2. DIVISION 2 SITE CONSTRUCTION (EARTHWORK)
A. EXCAVATION DEPTH.
B. ADEQUACY OF EXPOSED SURFACE TO PROVIDE REQUIRED SUPPORT.
C. PREPARATION OF SOILS/SURFACES SUPPORTING CONSTRUCTION.
D. FILL AND BACKFILL.
E. DEEP FOUNDATIONS PILES.
3. DIVISION 3 CONCRETE:
A. LOCATIONS.
B. FORMWORK AND MEMBER SIZES.
C. REINFORCING STEEL.
D. ANCHORS: CAST-IN AND POST-INSTALLED.
E. CONCRETE MIX AND PLACEMENT.
F. PROTECTION AND CURING PROCEDURES.
4. DIVISION 4 MASONRY
A. LOCATIONS.
B. MEMBER SIZES.
C. REINFORCING STEEL.
D. ANCHORS: BUILT-IN AND POST-INSTALLED.
E. MORTAR AND JOINTS.
F. GROUT AND GROUTING.
G. PROTECTION AND CURING PROCEDURES.
5. DIVISION 5 METALS
A. GENERAL ALL METALS:
1) MEMBER LOCATIONS.
2) MEMBER SIZES/TYPES.
3) ANCHORS - CAST-IN AND BUILT-IN ANCHOR BOLTS.
4) ANCHORS - POST-INSTALLED MECHANICAL AND ADHESIVE.
B. STRUCTURAL STEEL (CARBON AND STAINLESS).
1) HIGH-STRENGTH BOLTING.
2) WELDING.
C. STRUCTURAL ALUMINUM.
1) BOLTING.
2) WELDING.
D. STEEL JOISTS AND JOIST GIRDERS.
1) CONNECTIONS.
2) BRACING.
E. STEEL DECKING.
1) CONNECTIONS TO SUPPORTS.
2) SIDE CONNECTIONS BETWEEN ADJACENT SHEETS.
F. COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION.
6. DIVISION 6 WOOD, PLASTICS AND COMPOSITES.

**STRUCTURAL SYMBOLS:**

- 1. SEE SHEET G07 FOR KEY TO DRAWING TITLES AND SECTION CUTS, AND FOR DEFINITION OF MATERIALS SHADING PATTERNS.
2. WELDING: SYMBOLS: IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) A2.4.

**STRUCTURAL ABBREVIATIONS:**

- 1. SEE SHEET G08 FOR GENERAL LIST OF ABBREVIATIONS USED ON DRAWINGS.
2. ABBREVIATIONS FOR NAMES OF TECHNICAL GROUPS MAY BE FOUND IN THE PROJECT SPECIFICATIONS.
3. STRUCTURAL MEMBERS:
A. STEEL: ABBREVIATIONS AND DESIGNATIONS ARE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S STEEL CONSTRUCTION MANUAL, CURRENT EDITION.
B. ALUMINUM: ABBREVIATIONS AND DESIGNATIONS ARE IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION'S ALUMINUM DESIGN MANUAL, CURRENT EDITION.
4. ABBREVIATIONS FOR STRUCTURAL DRAWINGS:
WHEN USED ON THE STRUCTURAL DRAWINGS, THE FOLLOWING ABBREVIATIONS HAVE THE MEANINGS LISTED.

Table mapping abbreviations to meanings: BO BOTTOM OF, EF EACH FACE, I.F. INSIDE FACE, O.F. OUTSIDE FACE, T.O. TOP OF, # NUMBER (REINFORCING BAR SIZE), EW EACH WAY, OTHER: L ANGLE, PL PLATE.

**DEFERRED DESIGN SUBMITTALS**

AS DEFINED IN THE BUILDING CODE, DEFERRED DESIGN SUBMITTALS ARE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION, AND THAT ARE TO BE REVIEWED BY THE REGISTERED DESIGN PROFESSIONAL AND SUBSEQUENTLY SUBMITTED TO THE BUILDING OFFICIAL.

DEFERRED DESIGN SUBMITTALS FOR THIS PROJECT INCLUDE:

- 1. DIVISION 2(31) SITE CONSTRUCTION (EARTHWORK).
A. 02457C STEEL PIPE PILES
2. DIVISION 3(03) CONCRETE.
A. NONE
3. DIVISION 4(04) MASONRY.
A. NONE
4. DIVISION 5(05) METALS.
A. 05216 OPEN WEB STEEL JOIST FRAMING.
B. 05410 STRUCTURAL METAL STUD FRAMING.
C. 05500 HANDRAILS AND GUARDRAILS.
D. 055500 GRATING.

- 5. DIVISION 6(06) WOOD AND PLASTICS.
A. NONE
6. DIVISION 13 SPECIAL CONSTRUCTION.
A. NONE

- 7. LIFTING EYES: SUBMIT DETAILS WITH CALCULATIONS DEMONSTRATING THE SPECIFIED LOAD CAPACITY TO ENGINEER. DELIVER REMOVABLE EYES TO OWNER AFTER INSTALLATION OF REMOVABLE PANELS.

Revision table with columns: REV, DATE, BY, DESCRIPTION.

Design status table with columns: DESIGNED, DRAWN, CHECKED, DATE.



Digitally signed by Todd W. Petrik, Contact Info: Carollo Engineers, Inc., Date: 2018.04.25 10:04:59-0500.



CITY OF LOGAN REGIONAL WASTEWATER TREATMENT FACILITY STRUCTURAL NOTES

Verify scales table: BAR IS ONE INCH ON ORIGINAL DRAWING, 0 1" scale bar, SHEET NO. 82 OF 227.