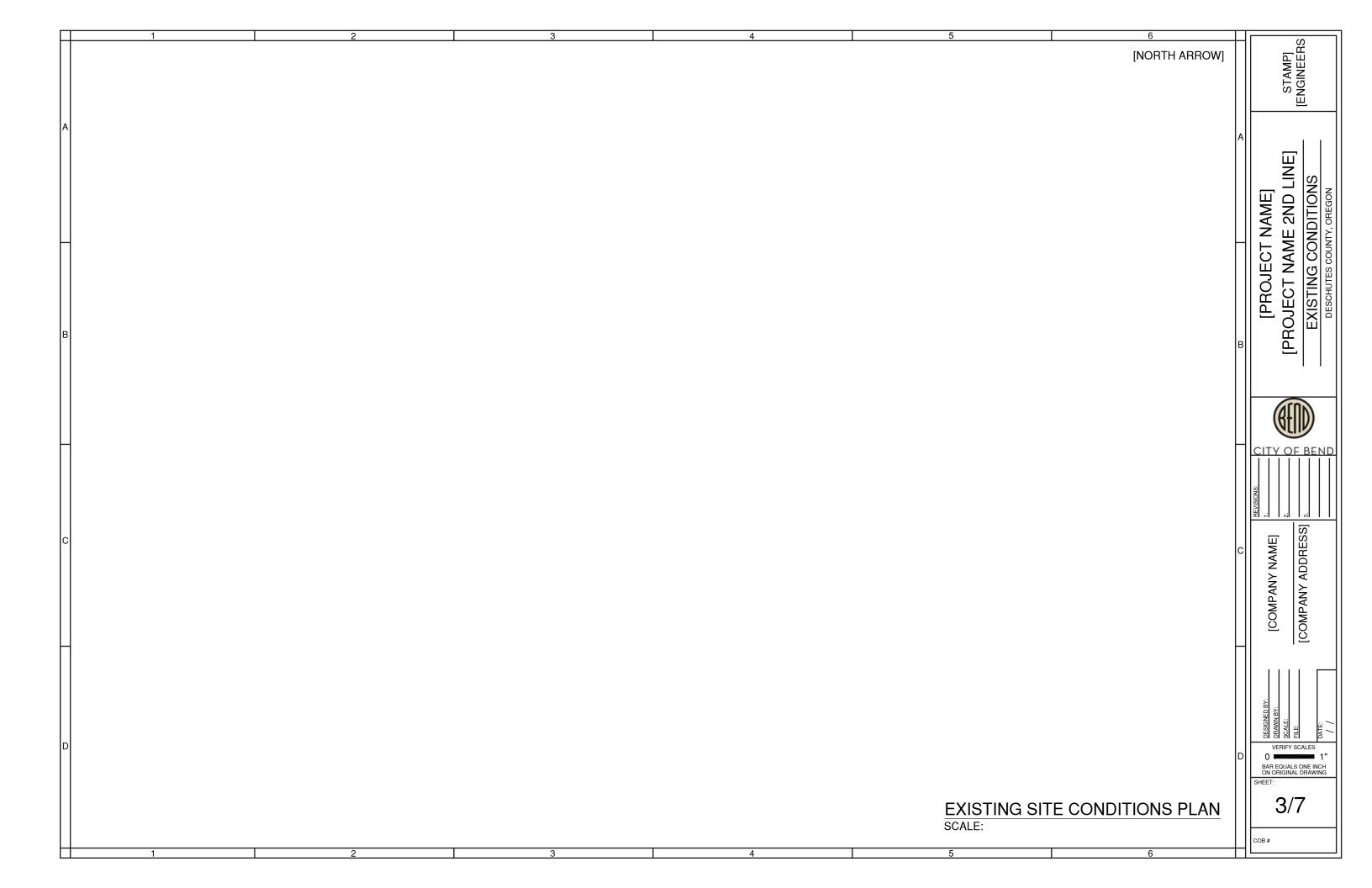
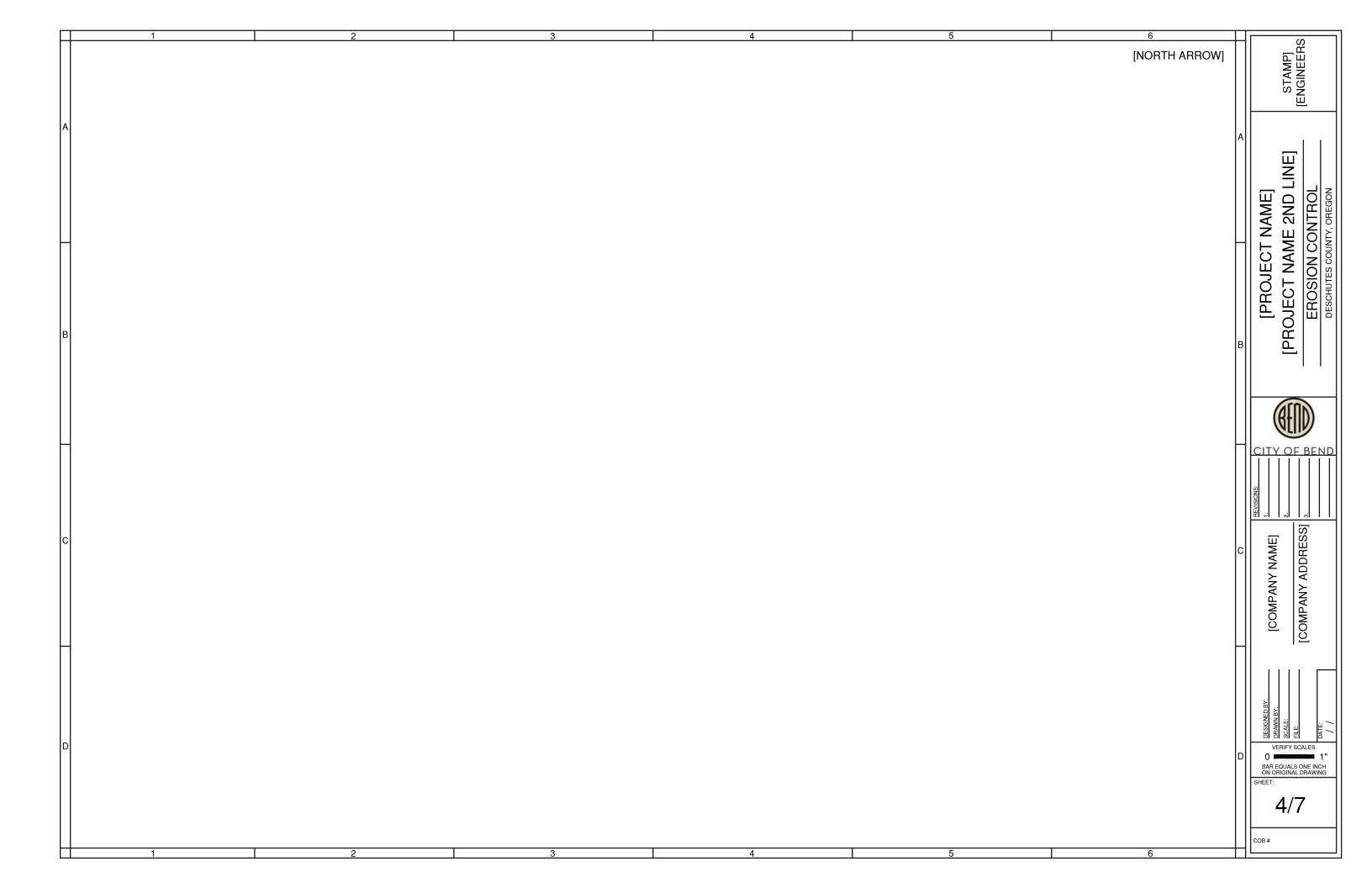
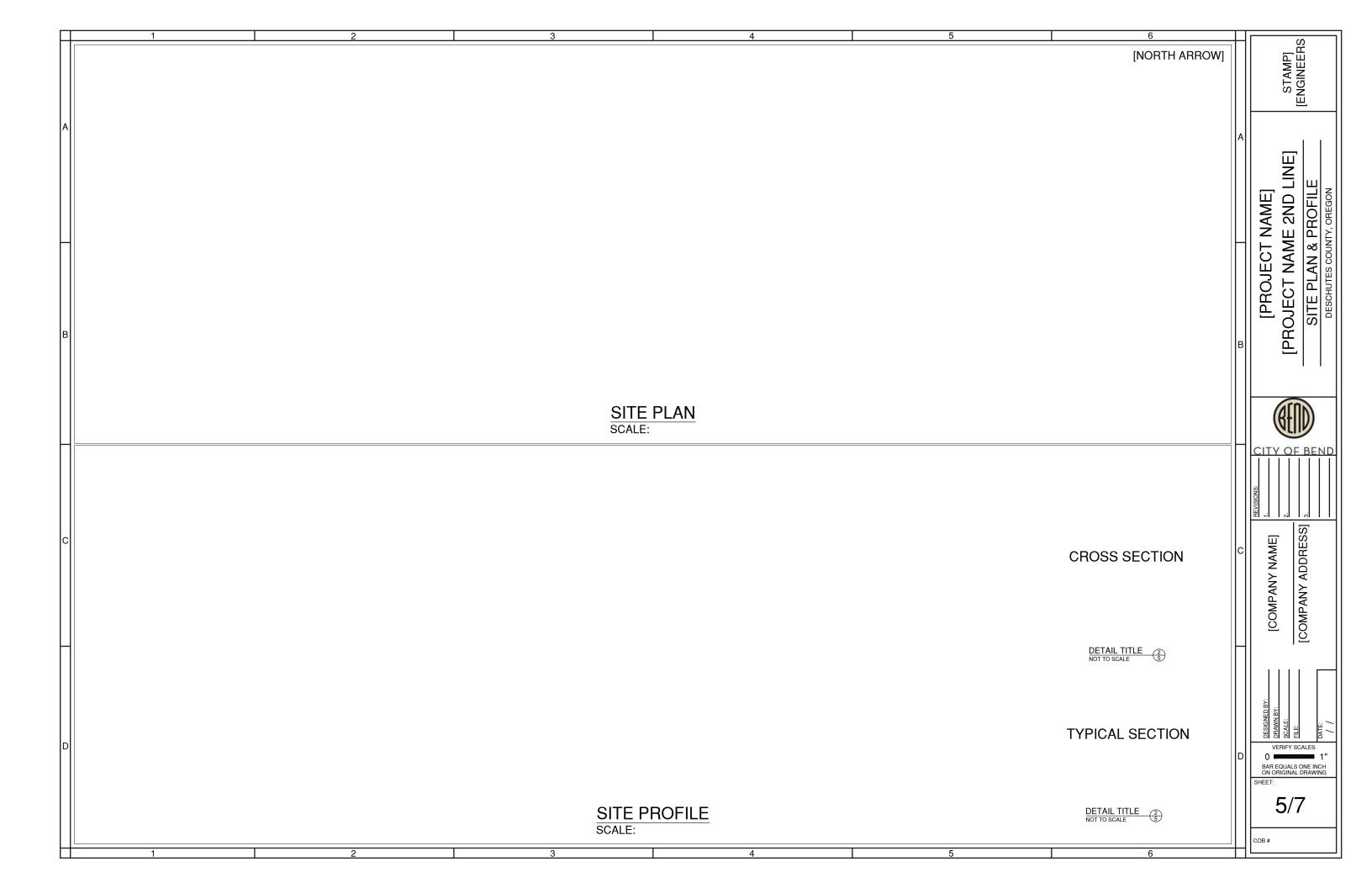
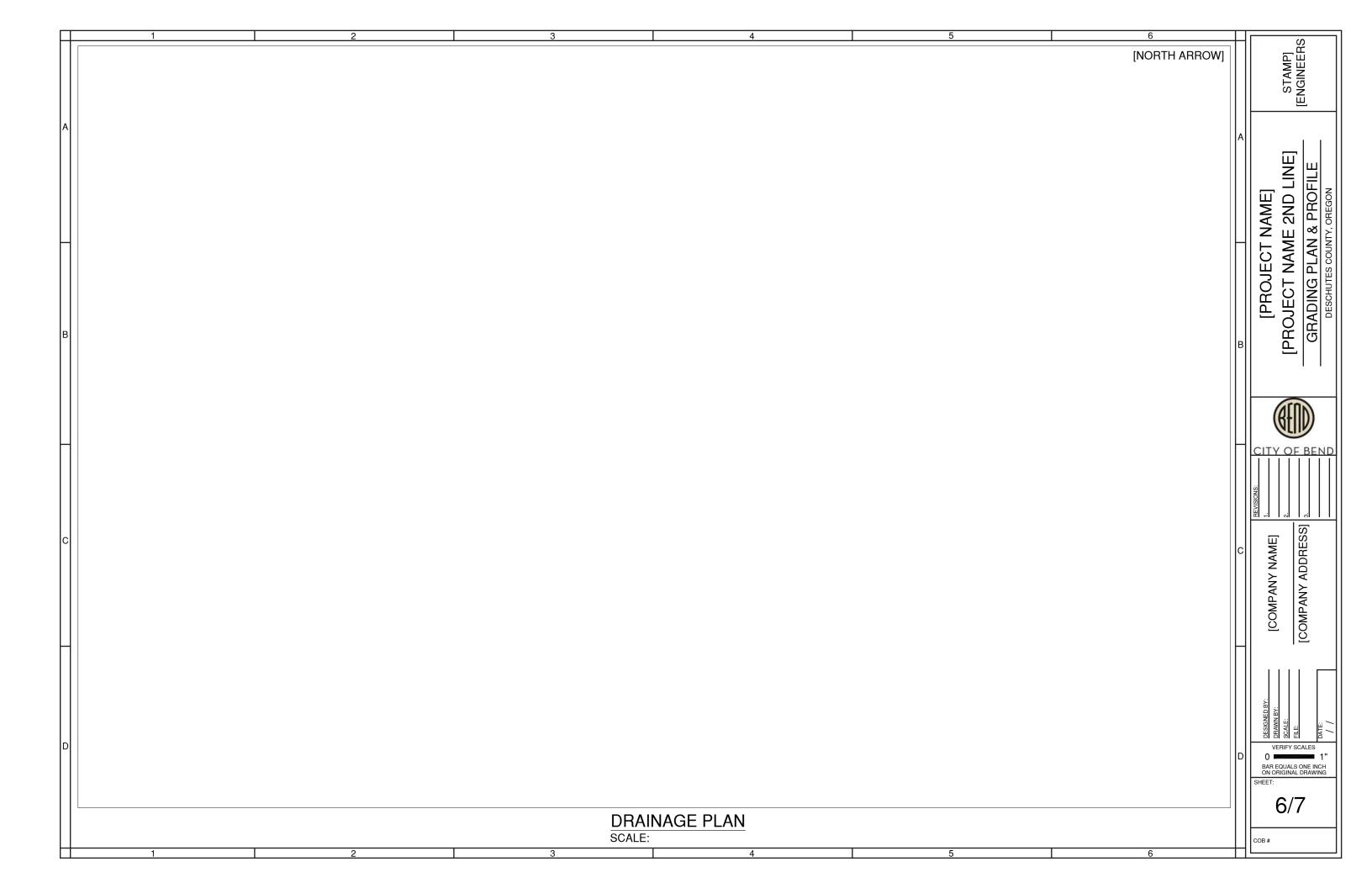


#### STAMP] :NGINEERS **GENERAL NOTES:** STREET NOTES: **GRADING AND ESC NOTES:** NO CONSTRUCTION SHALL BE STARTED WITHOUT A NOTICE TO PROCEED BY THE CITY ENGINEERING DEPARTMENT. THE CITY ENGINEERING DEPARTMENT AND THE DESIGN ENGINEER SHALL BE NOTHED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY CONSTRUCTION WORK DONE PRIOR TO NOTICE TO PROCEED BEING SUBUL OR WITHOUT INSPECTION WILL BE REJECTED. IF ANY WORK (NEW CONSTRUCTION OR RECONSTRUCTION) IMPACTS A CURB WHERE THERE IS A PEDESTRIAN WALKWAY (E.G. A SIDEWALK OR TRAILPATH) INTERSECTING A ROADWAY THEN A NEW RAMP OR REPLACEMENT OF AN EXISTING NON-COMPLIANT CURB RAMP MUST BE CONSTRUCTED. THE ENGINEER OF RECORD CAN PROVIDE ADDITIONAL BEST MANAGEMENT PRACTICES (BMP) FROM SECTION 9.4.3 IN THE CENTRAL OREGON STORMWATER MANUAL (COSM) THAT APPLY TO THE PROJECT. IF ANY NEW WORK INCLUDES RESURFACING THROUGH A STREET LEVEL PEDESTRIAN WALKWAY (E.G. MARKED OR UNMARKED CROSSWALK), EVEN IF THE WORK IS NOT THE FULL WIDTH OF THE ROADWAY, CURB RAMPS MUST BE BUILT OR RECONSTRUCTED ON BOTH ENDS OF THE CROSSWALK. 2. HOLD A PRE-CONSTRUCTION MEETING THAT INCLUDES THE CITY OF BEND INSPECTOR, EOR AND CONTRACTOR TO DISCUSS EROSION AND SEDIMENT CONTRACTOR SHALL VERIFY ALL CONDITIONS ON THE JOB SITE INCLUDING BUT NOT LIMITED TO, ALL DIMENSIONS, GRADES, ELEVATIONS, EXTENT AND COMPATIBILITY TO THE EXISTING SITE CONDITIONS, AND WITH THE WORK DESCRIBED ON THE ENGINEER'S DRAWINGS, AND USICKEPANCIES OR UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. CONTRACTOR SHALL NOT PROCEED WITH ANY OF THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, THEN IT IS UNDERSTOOD THAT THE CONTRACTOR IS CHOOSE TO THE CONTRACTOR'S 핕 IF ANY NEW SIDEWALK WORK CONNECTING TO AN EXISTING NON-COMPLIANT RAMP THAT REQUIRES ANY MODIFICATION TO ANY PORTION OF THE RAMP TO MEET CURRENT SIDEWALK DESIGN STANDARDS, THEN THE ENTIRE RAMP SHALL BE RECONSTRUCTED TO CURRENT STANDARDS. 3. THE EROSION AND SEDIMENT CONTROL (ESC) PLAN MUST BE KEPT ONSITE AT ALL TIMES WHEN WORK IS OCCURRING 4. THE ESC MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTIONS PERIOD, THE MEASURES MUST BE UPGRADED AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS. 4. IF ANY UTILITY TRENCH WORK IMPACTS A CURB AT A CROSS WALK, WITH OR WITHOUT A RAMP, THE REPLACEMENT OF AN EXISTING NON-COMPLIANT OWN RISK AND SHALL INCUR ALL COSTS, IF ANY TO RESOLVE THE ISSUES TO THE SATISFACTION OF THE ENGINEER. 3. A CITY INSPECTOR ACTING ON BEHALF OF THE CITY MAY REQUIRE REVISIONS IN PLANS TO SOLVE UNFORESEEN PROBLEMS THAT MAY ARISE IN THE FIELD. IF UTILITY TRENCH WORK DOES NOT IMPACT A CURB RAMP BUT IS "LIMITED TO A PORTION OF THE PAVEMENT, INCLUDING A PORTION OF THE CROSS WALK" REPLACEMENT OF AN EXISTING NON-COMPLIANT CURB RAMP MAY NOT BE REQUIRED (DEPENDENT ON OVERALL PROJECT SCOPE AND REQUIRED PAVEMENT RESTORATION LIMITS). THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION 4. ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THE CITY STANDARDS AND SPECIFICATIONS. AND ALL WORK SHALL BE SUBJECT TO a. FENCE OR FLAG AREAS TO BE PROTECTED OR LEFT UNDISTURBED DURING CONSTRUCTION Ш $b.\ INSTALL\ GRAVELED\ OR\ PAVED\ CONSTRUCTION\ ENTRANCES, EXITS, AND\ PARKING\ AREAS\ TO\ REDUCE\ THE\ TRACKING\ OF\ SEDIMENT\ ONTO\ PUBLIC\ AND\ AND\ AND\ AREAS\ TO\ REDUCE\ THE\ TRACKING\ OF\ SEDIMENT\ ONTO\ PUBLIC\ AND\ AND\ AREAS\ TO\ REDUCE\ THE\ TRACKING\ OF\ SEDIMENT\ ONTO\ PUBLIC\ AND\ AND\ AREAS\ TO\ REDUCE\ THE\ TRACKING\ OF\ SEDIMENT\ ONTO\ PUBLIC\ AND\ AREAS\ TO\ REDUCE\ THE\ TRACKING\ OF\ SEDIMENT\ ONTO\ PUBLIC\ AND\ AREAS\ TO\ REDUCE\ THE\ TRACKING\ OF\ SEDIMENT\ ONTO\ PUBLIC\ AND\ AREAS\ TO\ REDUCE\ THE\ TRACKING\ OF\ SEDIMENT\ ONTO\ PUBLIC\ AND\ AREAS\ TO\ REDUCE\ THE\ TRACKING\ OF\ SEDIMENT\ ONTO\ PUBLIC\ AND\ AREAS\ TO\ REDUCE\ THE\ TRACKING\ OF\ SEDIMENT\ ONTO\ PUBLIC\ AND\ AREAS\ THE\ AREAS\ TH$ ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY THAT DISTURBS A PEDESTRIAN SIDEWALK OR TRAIL REQUIRES THE REPLACEMENT OF THAT FACILITY TO IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT "UNDERGROUND LOCATE SERVICE" AT 1-800-332-2344 AT LEAST 48 BUSINESS-DAY HOURS PRIOR TO THE START OF CONSTRUCTION FOR THE LOCATION OF FOWER, GAS, CABLE TV AND TELEPHONE UNDERGROUND FACILITIES. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE PUBLIC AGENCY FOR THE LOCATION OF UNDERGROUND FACILITIES. PRIVATE ROADS ËS IF ANY ADA RAMPS ARE IDENTIFIED TO BE CONSTRUCTED, THE CONTRACTOR SHALL CONSTRUCT PERPENDICULAR RAMPS PER CITY STANDARDS. DIAGONAL OR PARALLEL RAMPS SHALL ONLY BE USED IF THEIR ARE UNIQUE SITE CONSTRAINTS THAT PROHIBIT CONSTRUCTION OF PERPENDICULAR RAMPS. ALL VARIATIONS FROM PERPENDICULAR RAMPS ARE AT THE DISCRETION OF THE CITY ENGINEER. ALL UTILITIES SHOWN ARE ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. NO POTHOLING TO VERIFY LOCATIONS AND ELEVATIONS d. INSTALL TEMPORARY ESC BMPS, CONSTRUCTING SEDIMENT TRAPPING BMPS AS ONE OF THE FIRST STEPS PRIOR TO GRADING AND ULLIES SHOW ARE ACCESSED TO THE CATACTOR HAS THE COTAL RESPONSIBILITY TO VERIFY THE LOCATION OF EXISTING UNDEREGROUND UTILITIES AND TO OTHER THE CONTROL HE CATACTOR HAS THE CONTROL HE CONTROL THE CONTROL OF EXISTING UNDEREGROUND UTILITIES AND TO OTHEY THE ULLITY COMPANIES WHEN WORKING IN THEIR RADDING THE CONTROL OF EXISTING UTILITIES PRIOR TO COST UNDER CONTROL OF EXISTING UTILITIES PRIOR TO THE CONTROL OF EXISTING UTILITIES WHEN WORKING IN THEIR PROPRIES AND THE OFFICE OF VERIFY THE CATACTOR OF EXISTING UTILITIES PRIOR TO THE OFFICE OF THE OFFICE OFFICE OF THE OFFICE OFF NOT 2ND e. CLEAR, GRUB AND GRADE INDIVIDUAL AND ROUGH GRADE FOR ROADS AND UTILITY LOCATIONS THE CITY PREFERS THAT VACTOR EXCAVATION AND ASPHALT CORE SAW BE USED TO POTHOLE UTILITIES. ALTERNATE METHODS MAY BE ALLOWED, BUT REQUIRE APPROVAL AS A CONDITION OF THE PERMIT NAM f. CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUPS OF LOTS g. TEMPORARILY STABILIZE A LOT OR GROUPS OF LOTS, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPS, WHERE SUBSTANTIAL CUT OR FILL 9. ASPHALT RESTORATION LIMITS WILL BE DETERMINED AFTER PERMIT SCOPE IS COMPLETED. TRUCTION I ALL GRADING SHALL BE IN CONFORMANCE WITH THE CURRENT CITY STANDARDS AND SPECIFICATIONS AND CURRENT GRADING ORDINANCE. ALL SUBGRADE MATERIAL SHALL BE CONSIDERED CLASS A AND COMPACTED TO 95% OF OFTINUM DENSITY. AS SPECIFIED IN THESE PLANS, ALL FILL MATERIAL SHALL BE COMPACTED TO 95% RELATIVE COMPACTION PER THE CITY TESTING REQUIREMENTS. SLOPES ARE RESULT OF SITE GRADING Ш h. CONSTRUCT ROADS, BUILDINGS, PERMANENT STROMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.) NAM CONSTRUCTION, INSPECTION, AND NOTIFICATION NOTES: CT 8. ALL FINAL CUT AND FILL SLOPES SHALL NOT EXCEED A GRADE OF 2 HORIZONTAL TO 1 VERTICAL UNLESS OTHERWISE APPROVED. i. PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPS ALL UNSUITABLE SOILS MATERIALS, RUBBISH AND DEBRIS RESULTING FROM GRADING OPERATIONS SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED 1. PERMITTEE SHALL REQUEST INSPECTIONS A MINIMUM OF 24 HOURS IN ADVANCE. j. REMOVE TEMPORARY ESC CONTROLS WHEN PERMANENT STORMWATER FACILITIES HAVE BEEN INSTALLED, ALL LAND-DISTURBING ACTIVITIES HAVE OVE CEASED, AND VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED ON THE ACCEPTED ESC PLAN(S) DESCHUTES THE CONTRACTOR SHALL EMPLOY ALL LAROR. FOLIPMENT, AND METHODS REQUIRED TO PREVENT DUST IN AMOUNTS DAMAGING TO PROPER 6. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT AND DURATION PRACTICAL. CULTIVATED VEGETATION AND DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM CONSTRUCTION. THE CITY CAN INSPECT ANY PORTION OF THE PROJECT AT ANY TIME. THE INSPECTION SHALL BE PERFORMED BY CITY INSPECTORS AND MAY REQUIRE OJECT INSPECTION BY THE ENGINEER OF RECORD (THIRD PARTY INSPECTORS). PRIOR TO CONSTRUCTION, A PRE-CONSTRUCTION MEETING MAY BE REQUIRED. THE PERMITTEE/CONTRACTOR IS REQUIRED TO CALL IN ALL INSPECTIONS PER THE REQUIREMENTS OF THE PERMIT CONST INSPECT ALL ROADWAYS ADJACENT TO THE CONSTRUCTION ACCESS ROUTE AT THE END OF EACH DAY. SIGNIFICANT AMOUNTS OF SEDIMENT THAT LEAVES THE CONSTRUCTION SITE MUST BE CLEANED UP WITHIN 24 HOURS. VACUUMING OR DBY SWEEPING MUST BE USED TO CLEAN UP RELEASED SEDIMENT AND SEDIMENT MUST NOT BE INTENTIONALLY. WASHED INTO STORM SEVERS, DRAINAGE WAYS, OR WATER BODIES. 11. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE INDUSTRIAL SAFETY REGULATIONS. THE CITY AND DESCRIPTS COUNTY AND THEIR OFFICIALS, THE IPR CONTRACTOR SHALL PROVIDE THE CITY A MINIMUM OF 48 HRS NOTICE PRIOR TO ANY TRAFFIC CONTROL BEING IMPLEMENTED. NOTICE TO THE CITY AND THE INSPECTOR BY EMAIL IS PREFERRED (COMDEVENG@BENDOREGON.GOV) 12. MATERIAL QUANTITIES USED, NOTED, OR PROVIDED IN A SEPARATE ITEMIZED QUANTITY TAKE-OFF ARE AN ENGINEER'S OPINION OF PROBABLE MATERIAL REQUIREMENTS, AND IS AN ESTIMATE ONLY. CONTRACTORS HAVE THE SOLE RESPONSIBILITY OF MAKING THEIR OWN QUANTITY TAKE-OFF AND COST SECONDARY. 5. INSPECTIONS ARE REQUIRED FOR CITY UTILITY CROSSINGS AND FINAL STREET RESTORATION. 8. COVER AND SECURE ALL DUMP TRUCK LOADS LEAVING THE CONSTRUCTION SITE TO MINIMIZE SPILLAGE ON ROADS 6. OUTSTANDING AND INCOMPLETE PERMITS MAY CONSTITUENT RESTRICTED PERMITTING TO THE APPLICANT AND CONTRACTOR(S). 13. ALL WORK IN THE PUBLIC RIGHT OF WAY SHALL BE PERFORMED BY A CITY APPROVED CONTRACTOR (INCLUDING SUBCONTRACTORS). RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY. THE PERMITTEE AND CONTRACTOR ARE RESPONSIBLE FOR ANY DAMAGE TO PUBLIC AND PRIVATE PROPERTY. ALL DAMAGE SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS AND TO THE SATISFACTION OF THE PROPERTY OWNER. 14. UTILITIES SHALL HAVE THE RIGHT TO INSTALL, MAINTAIN, AND OPERATE THEIR EQUIPMENT ABOVE AND BELOW GROUND AND ALL OTHER RELATED FACILITIES WITHIN THE PUBLIC UTILITY EASEMENTS (PUB. IDENTIFIED ON THIS PLAT MAP AS MAY BE NECESSARY OR DESIRABLE IN SERVING THE LOTS IDENTIFIED HEREIN, INCLUDING THE RIGHT OF ACCESS TO SUCH FACILITIES AND THE RIGHT TO REQUIRE REMOVAL, OF ANY OBSTRUCTIONS INCLUDING TREES AND VEGETATION THAT MAY BE PLACED WITH IN THE PUB AT THE LOT OWNERS EXPENSE. AT NO TIME MAY ANY PERMANENT STRUCTURES BE PLACE WITHIN THE PUB OF ANY OTHER OBSTRUCTION WHICH INTERFERS WITH THE USE OF THE PUB WITHOUT PRIOR WRITTEN APPROVAL OF THE UTILITIES AND 10. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT, WITHIN 10 CALENDAR DAYS DURING THE REGIONAL DRY SEASON (ULY 1 THROUGH SEPTEMBER 30) AND WITHIN 5 CALENDAR DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THROUGH JUNE 30). PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE. FACILITIES IN THE PUE. 15. CITY ENGINEER'S SIGNATURE DOES NOT CONSTITUTE APPROVAL OF FACILITIES PROPOSED ON PRIVATE PROPERTY. SEPARATE PERMITS ISSUED BY THE RIHL DING DEPARTMENT ARE REQUIRED AND SHALL BE OBTAINED BY THE DEVELOPER FOR FACILITIES LOCATED OUTSIDE OF THE PUBLIC RIGHT-OF-WAY. 16. ANY WORK WITHIN EXISTING PUBLIC RIGHT-OF-WAY OR DEDICATED CITY EASEMENTS REQUIRES A SEPARATE RIGHT-OF-WAY EXCAVATION PERMIT OBTAINED FROM THE CITY ENGINEERING DIVISION. 13. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS. CLEAN OR REMOVE AND REPLACE INLET PROTECTION DEVICES BEFORE SIX 17. ALL WATER MAIN CONNECTION TO BE DESIGNED AND CONSTRUCTED WITH CROSS CONNECTION PROTECTION 14. INSTALL SEDIMENT CONTROLS ALONG THE SITE PERIMETER ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE BEFORE COMMENCING EARTH DISTURBING ACTIVITIES. 18. CONTRACTOR SHALL OBTAIN HYDRANT METER PERMIT FOR USE OF TESTING WATER MAIN. A MINIMUM OF 48 HOURS ADVANCED NOTICE IS REQUIRED TO THE CITY OF BEND UTILITIES DEPARTMENT. 15. WHENEVER POSSIBLE, CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHOULD BE OPERATIONAL BEFORE THE CONSTRUCTION OR IMPERVIOUS SITE IMPROVEMENTS. 19. ALL RESTORATION TO BE COMPLETED AS SOON AS POSSIBLE UPON COMPLETION AND APPROVAL FROM THE INSPECTOR FOR ON-SITE WORK AND CITY OF BEND 16. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ONSITE MUST BE KEPT OFF OF ROADWAY AND SIDEWALKS. 20. ALL RESTORATION SHALL COMPLY WITH CITY OF BEND STANDARDS AND SPECIFICATIONS AND FOLLOW THE BMP PAVING GUIDELINES ESTABLISHED BY 17. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON-INERT WASTES PRESENT ONSITE FROM VANDALISM. MAINTAIN A SUPPLY OF MATERIALS ON HAND TO ADDRESS AND CONTAIN SPILLS. 21. PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL PLANS, NOTIFICATION AND APPROVAL IS REQUIRED BY THE CITY OF BEND PRIVATE DEVELOPMENT ENGINEERING DEPARTMENT. 18. LOCATE DESIGNATED VEHICLE AND EQUIPMENT SERVICE AREAS, FUEL, AND MATERIALS AWAY FROM DRAINAGE INLETS, WATER COURSES, AND CANALS. PROPERLY CONTAIN AREAS USING BERMS, SAND BAGS, OR OTHER BARRIERS. 22. THESE PLANS WILL EXPIRE ONE YEAR FROM THE "CITY OF BEND ENGINEER" SIGNATURE DATE ON THE COVER. 23. PRIVATE INSPECTIONS WILL BE REQUIRED PER PART V OF THE CITY OF BEND STANDARDS AND SPECIFICATIONS UNLESS SPECIFIED OTHERWISE 19. REGULARLY INSPECT AND MAINTAIN EQUIPMENT, ESPECIALLY FOR DAMAGED HOSES AND LEAKY GASKETS. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES (I.E. OIL CHANGES, FUEL TANK DRAIN DOWN, ETC) THAT MAY RESULT IN DISCHARCE OR SPILLAGE OF POLLUTANTS USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SUPERACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT, PERFORM REPAIRS ONSITE USING TEMPORARY PLASTIC OR OIL ABSORBING BLANKETS BENEATH THE VEHICLE. TRAFFIC CONTROL NOTES: DESIGNATE AN AREA FOR CLEANING PAINTING EQUIPMENT AND TOOLS. NEVER CLEAN BRUSHES OR RINSE CONTAINERS INTO THE STREET, GUTTER, DRAINAGE INLET, OR WATERWAY. $\overline{S}$ THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE APPROVED TRAFFIC CONTROL PLAN (TCP) TO PROVIDE SAFE AND EFFICIENT VEHICULAR BICYCLE AND PEDESTRIAN MOVEMENT IN AND AROUND THE WORK ZONES. CERTIFIED TRAFFIC CONTROL FLAGGERS AND PROFESSIONALS MAY BE REQUIRED PER THE CONDITIONS OF THE PERMIT. THE CITY OF BEND RESERVES THE RIGHT TO MODIFY THE TCP AT ANY TIME BASED ON FIELD CONDITIONS. 21. APPLY LANDSCAPING OR AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATIONS RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. NAM THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS INCLUDING THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND TH REGON TEMPORARY TRAFFIC CONTROL HANDBOOK FOR OPERATIONS OF THREE DAYS OR LESS, DATED DECEMBER 2011 AND PREPARED BY ODOT (ORANGE 22. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPS. [COMPANY 3. UNLESS APPROVED BY THE CITY ENGINEER, ARTERIAL ROADS SHALL HAVE NO LANE RESTRICTIONS FROM 6:30 TO 9:00 AM AND FROM 3:30 TO 6:30 PM. COLLECTORS AND LOCAL NEIGHBORHOOD MAIN ROUTES SHALL HAVE NO LANE RESTRICTIONS FROM 7:00 AM TO 8:30 AM AND FROM 4:00 PM TO 6:00 PM. 23. REMOVE TEMPORARY ESC BMPS WITHIN 30 DAYS AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREAS THAT ARE 4. TCP SHALL BE SUBMITTED TO THE CITY OF BEND A MINIMUM OF 14 DAYS PRIOR TO IMPLEMENTATION FOR REVIEW. 48 HOURS PRIOR TO IMPLANTATION THE CITY OF BEND SHALL BE NOTIFIED IN ORDER TO PROVIDE ADEQUATE PUBLIC NOTIFICATION. 24 KEEP SEDIMENT ON THE PROJECT SITE TO THE MAXIMUM EXTENT PRACTICAL 25. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY. DUST CONTROL MUST BE CONTINUOUS, PARTICULARLY DURING THE DRY SEASON 26. DESIGNATE THE LOCATION OF A SLURRY PIT WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT. SLURRY PITS ARE NOT TO BE LOCATED IN, OR UPSTREAM OF, A SWALE, DRAINAGE AREA, STORMWATER FACILITY, WATER BODY, OR IN AN AREA WHERE A STORMWATER FACILITY EXISTS OR IS **UTILITIES NOTES:** 1. UTILITIES CROSSING SHALL BE PERPENDICULAR (90 DEGREES) TO THE CITY WATER, STORM, AND SEWER LINES 2. UTILITY CROSSINGS SHALL MAINTAIN A MINIMUM VERTICAL SEPARATION OF 12 INCHES FROM ALL WATER AND SEWER MAIN LINES. ANY UTILITY THAT IS LOCATED PARALLEL TO A CITY WATER OR SEWER MAIN LINE SHALL MAINTAIN A MINIMUM OF 10-FT OF HORIZONTAL SEPARATION. THE CITY REQUIRES VISUAL INSPECTION (POT HOLING) OF ALL UTILITY CROSSINGS OF CITY WATER, STORM, AND SEWER LINES. SEWER LINES MAY BE INSPECTED BY CLOSED CIRCUIT CAMERA AT THE APPROVAL OF THE CITY ENGINEER. 5. EXCAVATION AND DIRECTIONAL DRILLING REQUIRES POT HOLING PRIOR TO ANY WORK BEING CONDUCTED AND DURING DRILLING 6. DIRECTIONAL DRILLING REQUIRES ADVANCED PROFILING OF THE CROSSING BEFORE WORK CAN BE PERMITTED. 7. NO EXCAVATION IS PERMITTED WITHIN 10 FT BEHIND A FORCE MAINS, PRESSURE MAINS, FIRE HYDRANT OR WATER MAINS THRUST BLOCK. 9. UTILITY LINES SHALL NOT BE PLACED IN THE ROOT AREAS OF TREES AND SHALL MAINTAIN 5 FT CLEARANCE FROM THE DRIPLINE OF TREES OR AS DIRECTED BY THE CITY ENGINEER. ANY TREES DAMAGED ARE TO BE REPLACED VERIFY SCALES 10. COMPACTION IS REQUIRED AND TESTING PER SECTION 00405.46 (C) OR AT THE DISCRETION OF THE CITY ENGINEER. ALL LIFTS MUST BE MECHANICALLY COMPACTED WITH ADEQUATE COMPACTION EQUIPMENT, WITH A MINIMUM OF 5 PASSES FOR EACH LIFT OR AS DIRECTED BY THE CITY. BAR EQUALS ONE INCH ON ORIGINAL DRAWING SHEET: COB#

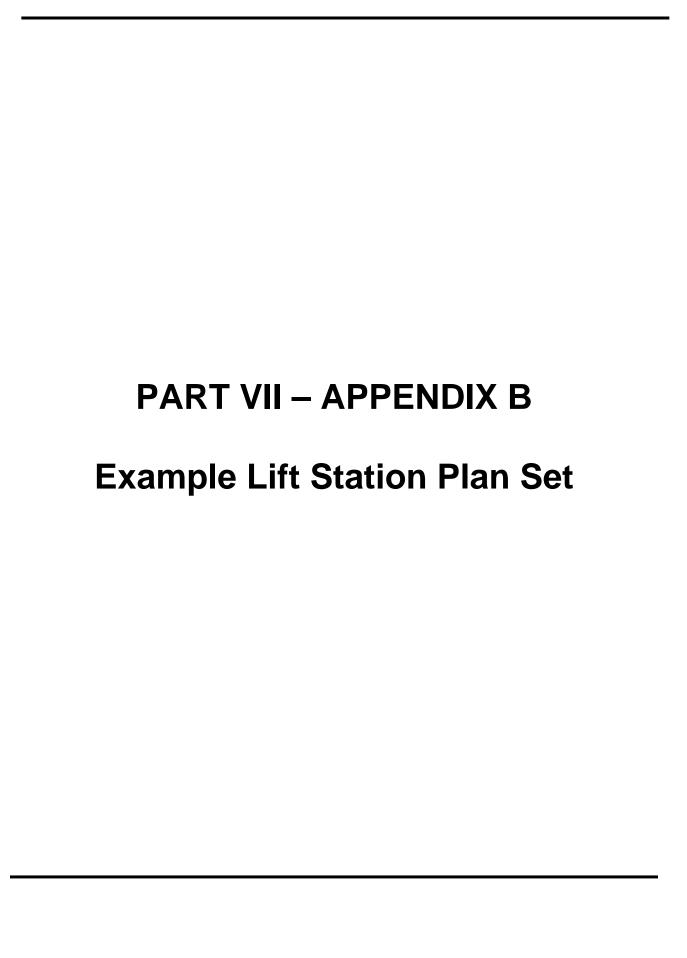


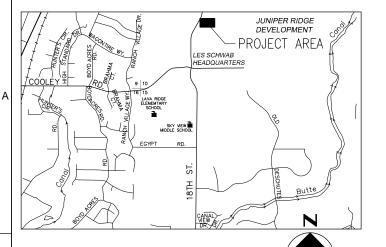






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|   |   |   |                                  | SPECIAL DETAIL                   |  |
| A   |   |   |                                  |                                  |  |
|   |   |   | DETAIL 1<br>NOT TO SCA           | TITLE (5)                        | [PROJECT NAME] [PROJECT NAME 2ND LINE]  DETAILS  DESCHUTES COUNTY, OREGON  |
| В   |   |   | SPECIAL DETAIL                   | SPECIAL DETAIL                   | [PROJE   |
| CITY OF BEND  SV WATSEWISTORM  REV SAME APPR  STANDARDS AND SPECIFICATIONS  TO NW WALLST, BEND, OREGON 9701  DETAIL TITLE  DRW NO |   |   | DETAIL TITLE 2<br>NOT TO SCALE 5 | DETAIL TITLE 3<br>NOT TO SCALE 5 | CITY OF BEND   |
|   |   |   |                                  | SPECIAL DETAIL                   |  |
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| D  ONNON  OV WAT/SFW/STGRM  CITY OF BEND  SCALE NTS   |   |   |                                  | I                                | VERTICAL STATES  VERTIC |
| TOY WATSEWISTORM REV DATE APPR  STANDARDS AND SPECIFICATIONS  TO NW WALLST, BEND, OREGON 97701  DETAIL TITLE  TOWN NO.            | 3 | 4 | DETAIL 1<br>NOT TO SCA           | TITLE 4<br>LE 5                  | COB#   |







# (PROJECT NAME HERE)

# (LIFT STATION NAME HERE)

SITE ADDRESS: (ADDRESS HERE)

DATE: (DATE HERE)

**APPROVALS:** 

CITY PROJECT NUMBER: (IF APPLICABLE)
CITY OF BEND, DESCHUTES COUNTY, OREGON

OWNER:

# CITY OF BEND

UTILITY'S DEPARTMENT 62975 BOYD ACRES ROAD BEND, OR 97701

| SITE PLAN     |  |
|---------------|--|
| SCALE: N.T.S. |  |

**VICINITY MAP** 

SCALE: N.T.S.

CITY OF BEND
ENGINEER:
NOTE: SIGNATURE DOES NOT GRANT APPROVAL TO COMMENCE CONSTRUCTION.

[REQUIRED UTILITY:

[REQUIRED UTILITY:

[REQUIRED UTILITY:

[REQUIRED UTILITY:

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PERMANENT BENCH MARKS USED:

IDENTIFICATION DESCRIPTION
NOT APPLICABLE

### FOR SAMPLE ONLY

RECORD DRAV

REVISIONS DRAWN BY: XX DATE: XX/XX/XX
THESE RECORD DRAWNINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWNINGS

COB# (XXXXXX)

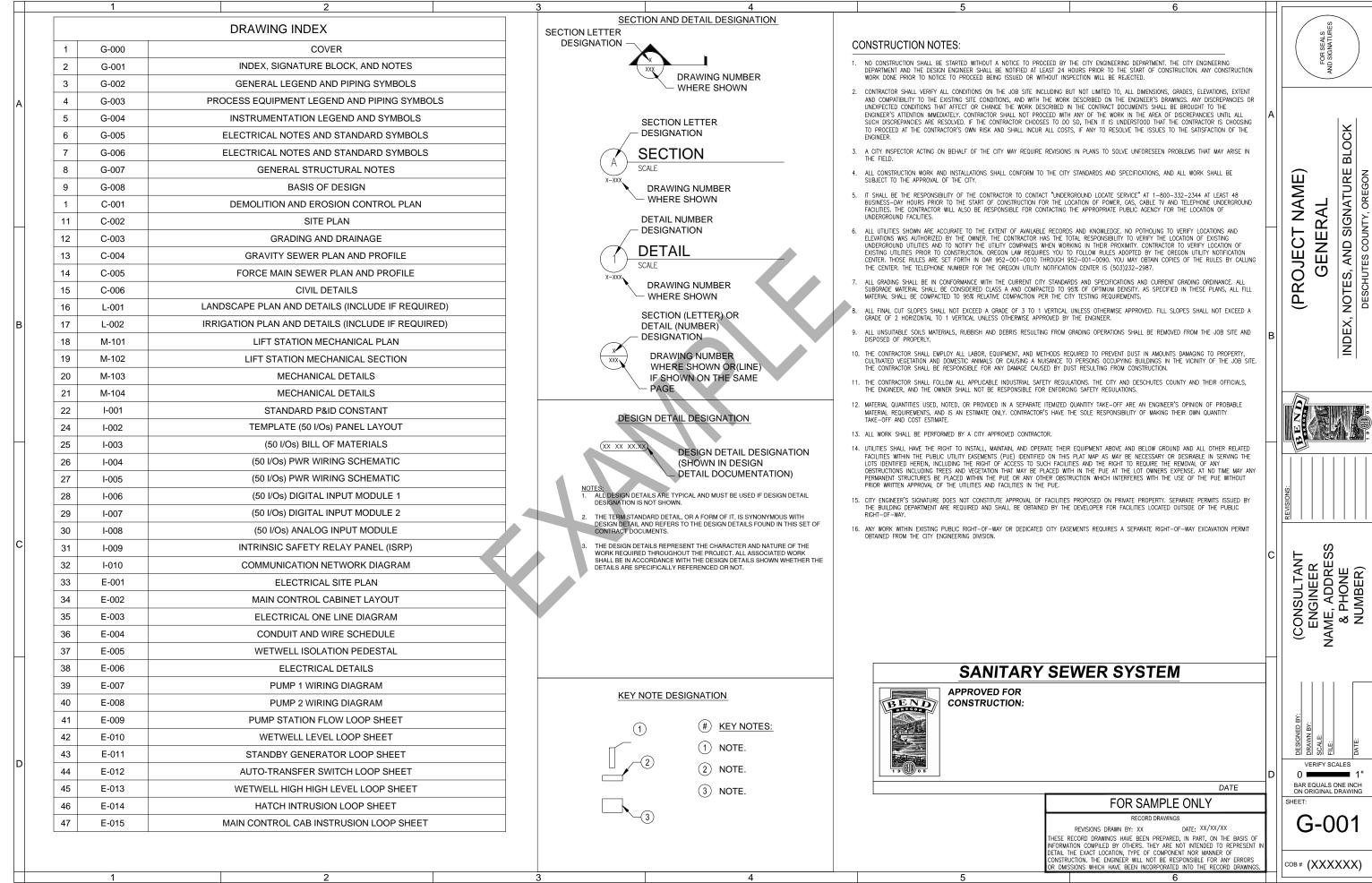
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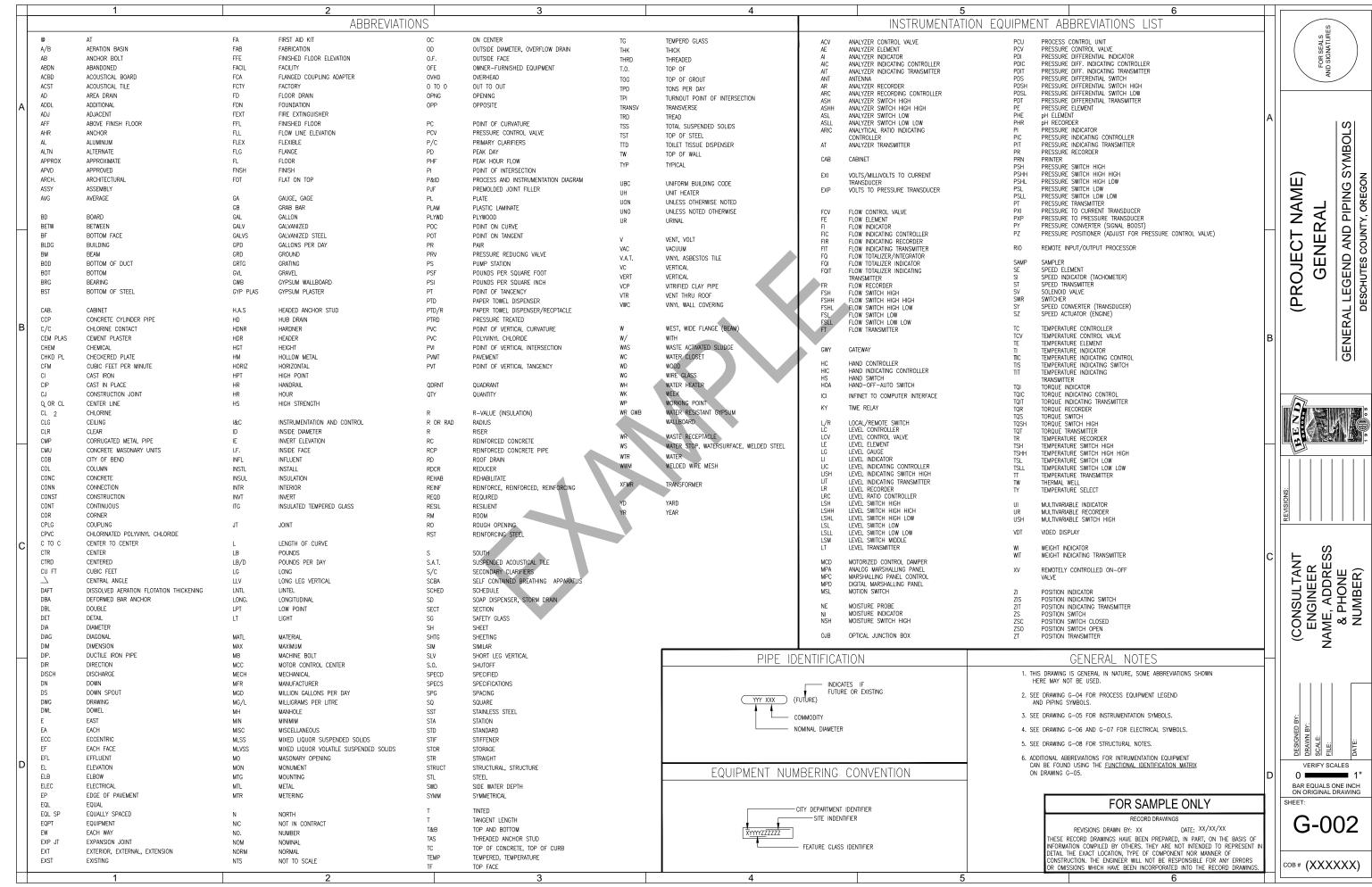
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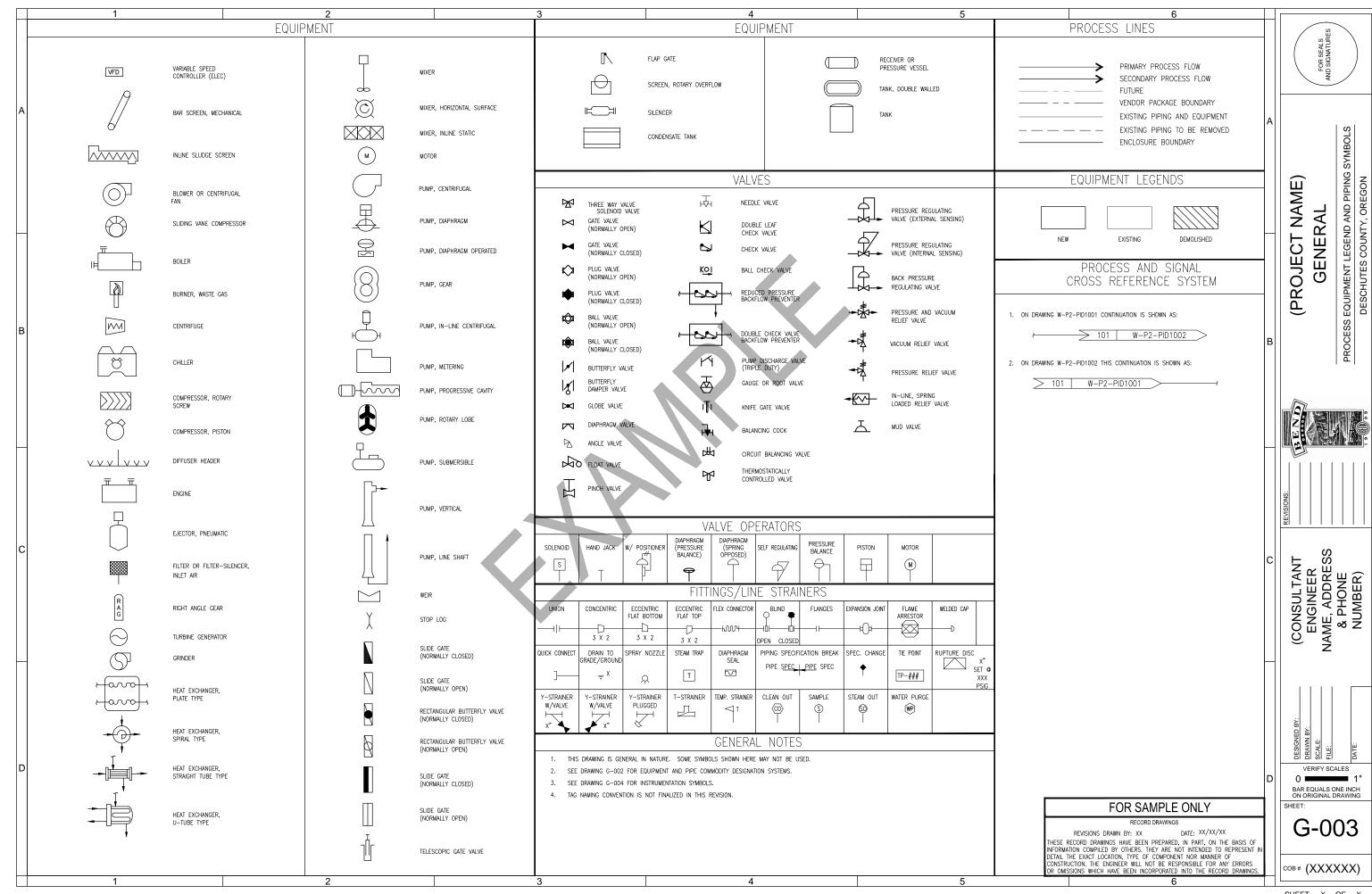
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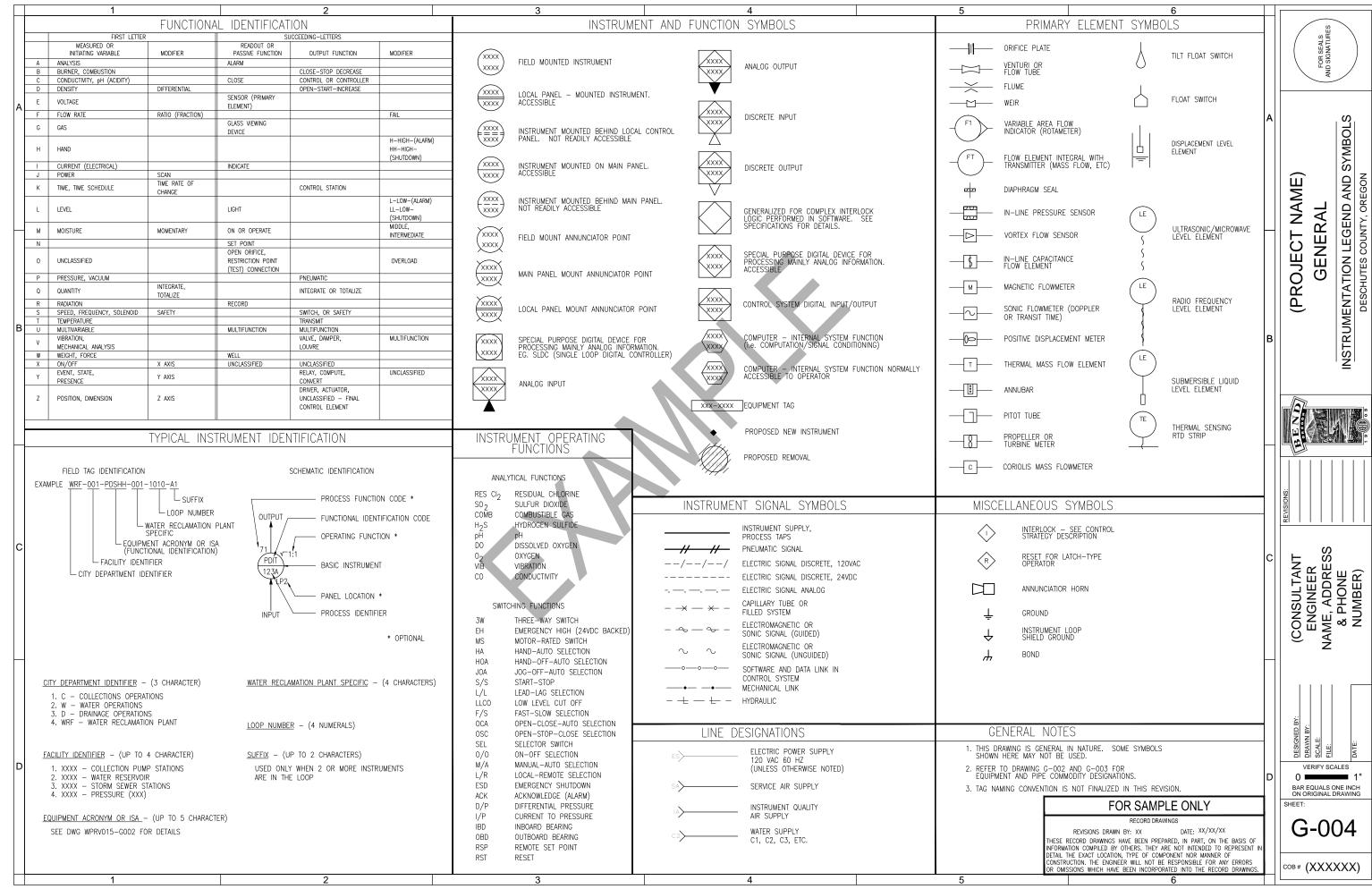
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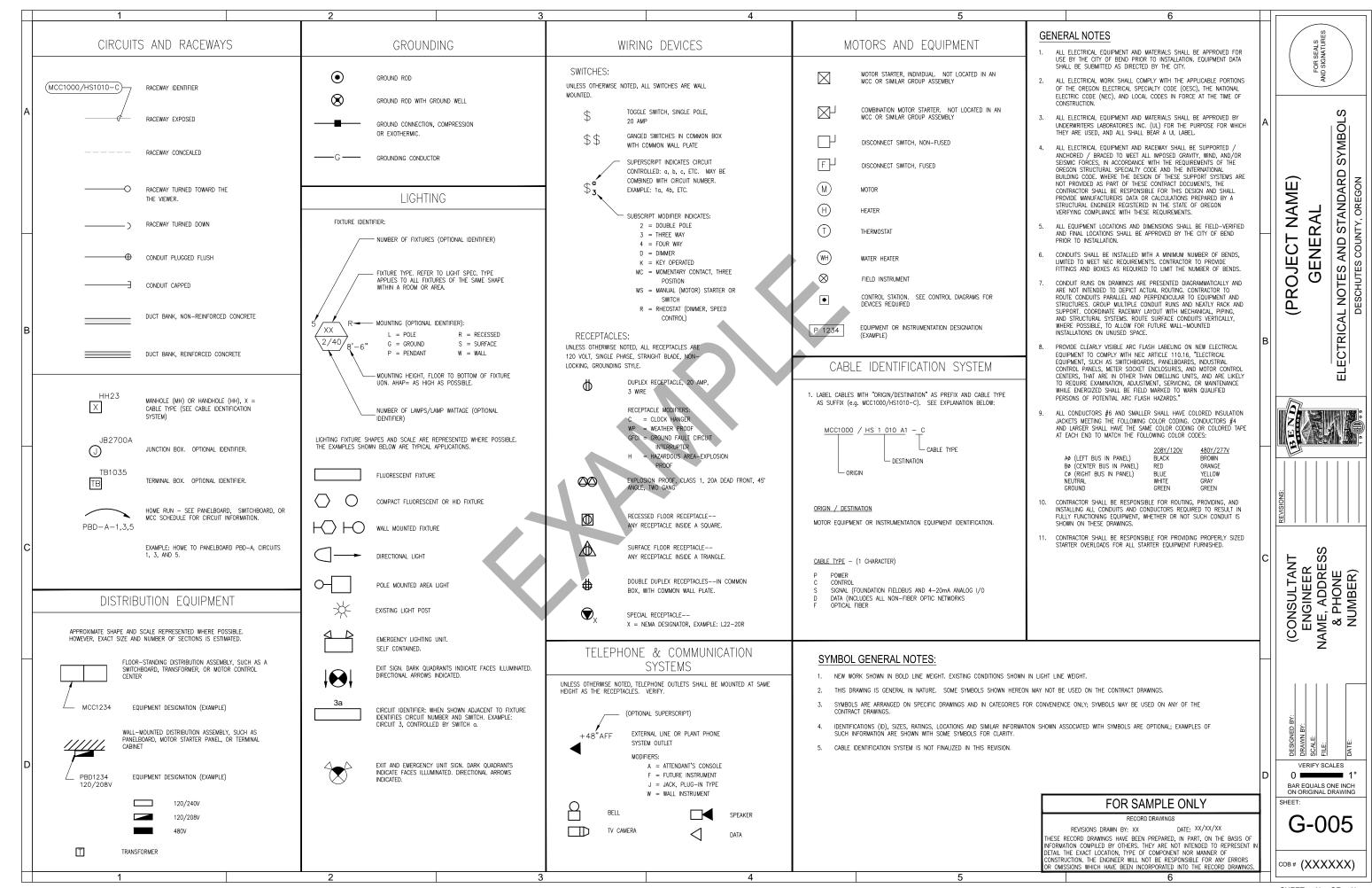
SHEET X OF X

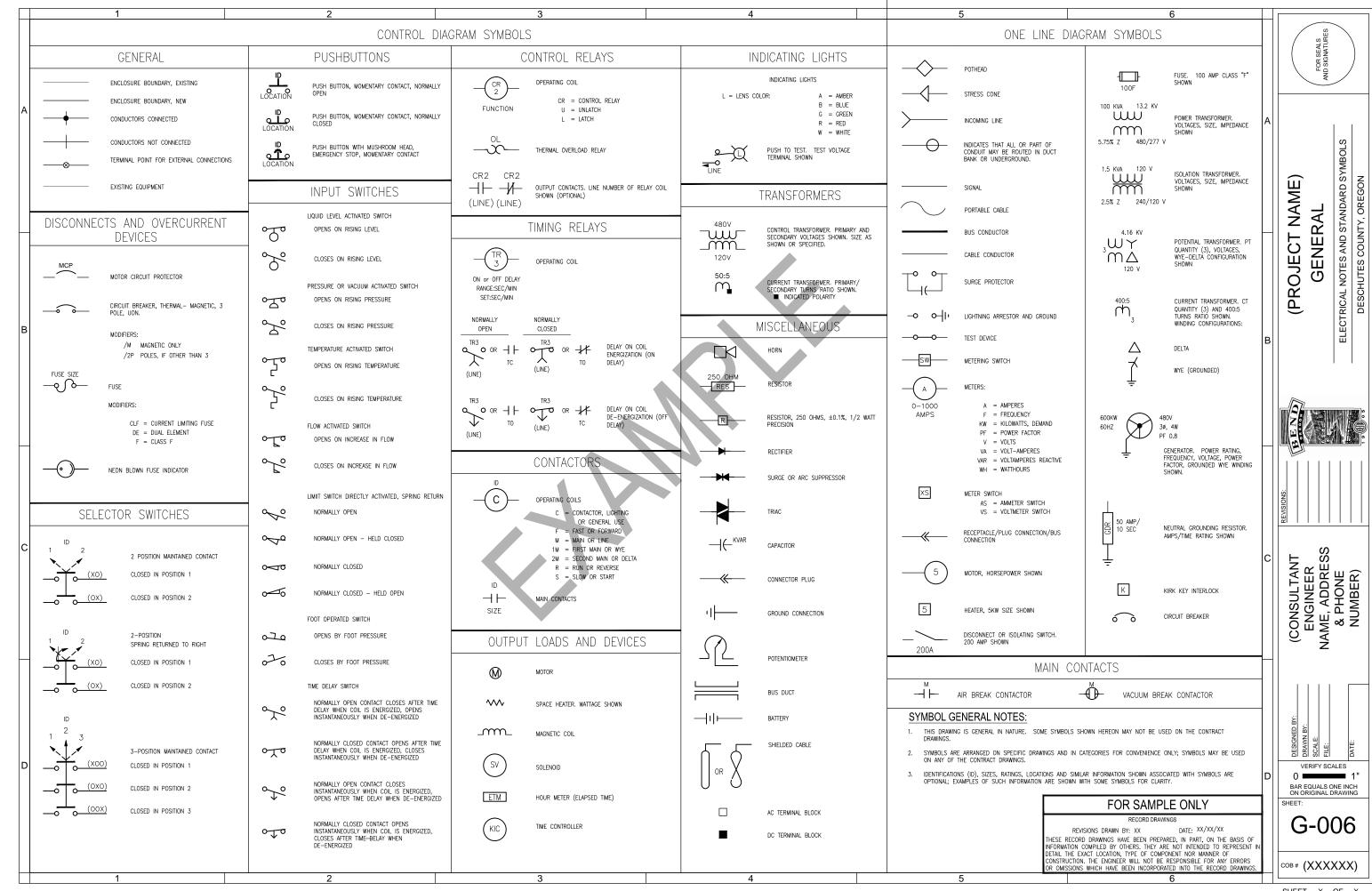












#### GENERAL STRUCTURAL NOTES (GSN CONCRETE (continued) SCOPE THE NOTES ON THIS SHEET AND THE STANDARD STRUCTURAL DETAILS ARE THE NOTES ON THIS SHEET AND THE STANDARD STRUCTURAL DETAILS ARE THE NOTES OF THE STANDARD STRUCTURAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT WHETHER SPECIFICALLY CALLED OUT OR NOT, EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY ON STRUCTURAL SHEETS. IF THERE ARE QUESTIONS, THEY SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ANSWERED IN WRITING PRIOR APPLICABLE SPECIFICATIONS AND CODES A. INTERNATIONAL BUILDING CODE, IBC 2012 WITH APPLICABLE EDITIONS OF G2. THE CODE REFERENCED STANDARDS LOCAL JURISDICTION AMENDMENTS G3. <u>DESIGN CRITERIA</u> 1. APPLIES TO ALL STRUCTURES (UNO) A. DEAD LOAD: C9. ALL CAST IN PLACE AND POST-INSTALLED ANCHORS INDICATED IN THE STRUCTURAL DOCUMENTS SHALL COMPLY WITH APPENDIX D OF ACI 318 AND CHAPTER 19 OF THE IBC. ALL EXPANSION AND ADHESIVE ANCHORS SHALL HAVE THE ICC REPORT SHOWING EQUIVALENT LOAD CAPACITY. SUBMIT AND INSTALL ACTUAL TRIBUTARY STRUCTURE WEIGHT . SUPERIMPOSED DEAD LOAD: X PSF LIVE LOAD: PER THE ICC EVALUATION REPORT ROOF: XX PSF (NOT REDUCIBLE) SNOW LOAD: . GROUND SNOW LOAD: STEEL XX PSF 2 FLAT ROOF SNOW LOAD XX PSF S1. <u>DESIGN STRENGTHS:</u> EXPOSURE FACTOR Co: HSS SECTIONS: Fy=46 KSI ALL OTHER PLATES AND SHAPES: Fy=36 KSI THERMAL FACTOR Co: X.X S2. <u>DIMENSIONS:</u> TO CENTERLINES OF COLUMNS AND BEAMS, TOP SURFACES OF BEAMS AND TUBES AND BACKS OF CHANNELS AND ANGLES UNC. SEISMIC RISK CATEGORY: IMPORTANCE FACTOR SPECTRAL RESPONSE ACCELERATION, Ss: SPECTRAL RESPONSE ACCELERATION, Ss: STE CLASS: SEISMIC DESIGN CATEGORY: X.XXX S3. <u>ELEVATIONS:</u> TOP OF STEEL REFERS TO TOP SURFACE OF MEMBER OR FLANGE UNO. SPECTRAL RESPONSE COEFFICIENT, So:: X.XX SPECTRAL RESPONSE COEFFICIENT, So:: X.XX BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL ORDINARY CANTILEVER S4. <u>FILLET WELDS:</u> WHEN FILLET WELD SIZE IS NOT INDICATED, PROVIDE MAXIMUM WELD SIZE BASED ON MATERIAL THICKNESS IN ACCORDANCE WITH AISC SPECIFICATIONS. COLUMN 10. ANALYSIS PROCEDURE: 11. RESPONSE MODIFICATION FACTOR R: 12. SEISMIC RESPONSE COEFFICIENT Cs: EQUIVALENT LATERAL FORCE S5. <u>BOLTED CONNECTIONS:</u> ALL BOLTED STRUCTURAL CONNECTIONS ARE BEARING TYPE CONNECTIONS UNLESS OTHERWISE SPECIFIED TO BE SLIP—CRITICAL. PROVIDE LOAD INDICATING X.XXX 13. DESIGN BASE SHEAR V: XX.XXXX WASHERS AT SLIP-CRITICAL CONNECTIONS. WIND: BASIC WIND SPEED: S6. <u>STEEL MANUAL:</u> CONFORM TO AISC 360, STEEL CONSTRUCTION MANUAL AND AISC 341, SEISMIC XXX MPH **EXPOSURE** OPEN FNCLOSURE: DESIGN MANUAL. STEEL DECK: G4. GEOTECHNICAL DATA IS ASSUMED: ALLOWABLE [NET] SOIL BEARING: XXXX PSF SD1. THE DESIGN, FABRICATION, AND ERECTION OF METAL DECKING SHALL BE IN G5. <u>SAFETY</u> SAFETY AND STRUCTURE STABILITY DURING CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURES HAVE BEEN DESIGNED TO RESIST THE DESIGN LIVE LOADS ONLY AS A COMPLETED STRUCTURE. ACCORDANCE WITH THE CURRENT EDITION OF THE SDI SPECIFICATIONS AND THE SD2. STEEL ROOF DECK IS 1-1/2 INCH X 18 GAUGE DESIGNED FOR THE DEAD, SNOW AND LIVE LOADS INDICATED. G6. OPENINGS OPENINGS FOR PIPES, DUCTS, CONDUITS, ETC. ARE NOT ALL SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE AND PROVIDE OPENINGS AS REQUIRED TO ACCOMMODATE ALL WORK SHOWN OR SPECIFIED IN THE CONTRACT DOCUMENTS AND OTHERWISE REQUIRED FOR THE FURNISHING OF A FUNCTIONALLY COMPLETE PROJECT. REINFORCE AROUND OPENINGS PER STANDARD STRUCTURAL DETAILS I'NI FSS OTHERWISE SHOWN. SD3 STEEL ROOF DECK IS TO BE A STRUCTURAL DIAPHRAGM AND SHALL BE CONNECTED TO THE STRUCTURE AS INDICATED IN THE METAL DECK SCHEDULE. SD4. THE PLANS INDICATE DECK SPAN DIRECTION. SD5. SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, AND OTHER UTILITIES SHALL BE SUPPORTED FROM THE STEEL DECK. SPECIAL INSPECTIONS SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH CHAPTER 1 AND CHAPTER 17 OF THE IBC. PAYMENT FOR THESE INSPECTIONS IS NOT THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE FOR FULL ACCESS TO THE WORK BY THE SPECIAL INSPECTOR AND SHALL PROVIDE FOR THESE INSPECTIONS IN HIS CONSTRUCTION SCHEDULE IN ACCORDANCE FINISHES: F2. WITH THE SPECIFICATIONS. G8. <u>STANDARD DETAILS:</u> THE STANDARD DETAILS DEPICT TYPICAL DETAILING TO BE USED ON THIS PROJECT: IF CONDITIONS ARE NOT EXPLICITLY SHOWN ON THE DRAWINGS THEY SHALL BE MADE SIMILAR TO THE STANDARD DETAILS. OBTAIN APPROVAL OF ENGINEER IN WRITING FOR SIMILAR CONDITIONS PRIOR TO CONSTRUCTION. G9. EXISTING CONSTRUCTION: THE CONTACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION AS REQUIRED TO COORDINATE NEW CONSTRUCTION. SUBMIT REQUIRED CHANGES FOR APPROVAL. G10. <u>EQUIPMENT LOADING:</u> CONTRACTOR TO SUBMIT FOR REVIEW ALL EQUIPMENT SIZES, OPERATING WEIGHTS, VIBRATION FORCES, SUPPORT LOCATIONS, ALONG WITH ANY FLOOR OPENINGS, NOTCHES, AND RECESSES REQUIRED BY SUCH EQUIPMENT. CONCRETE SUPPORT PADS AND/OR FRAMING REQUIRED TO SUPPORT SAID EQUIPMENT SHALL NOT BE FABRICATED AND PLACED UNTIL THE CONCRETE SUPPORT PADS AND/OR FRAMING IS APPROVED TO SUPPORT THE EQUIPMENT CONCRETE C1. DESIGN STRENGTHS: F'c = 4500 PSIFy = 60,000 PSIC2. CONCRETE COVER UNLESS OTHERWISE NOTED. PROVIDE CONCRETE COVER FOR REINFORCING AS FOLLOWS: CONCRETE DEPOSITED AGAINST EARTH: ALL OTHER: SEE DRAWINGS FOR EXCEPTIONS C3. SEE SPECIFICATIONS FOR REINFORCING PLACEMENT REQUIREMENTS. REFER TO OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION FOR EMBEDDED ITEMS AND PENETRATIONS NOT SHOWN ON STRUCTURAL DRAWINGS... AS REQUIRED TO ACCOMMODATE ALL WORK SHOWN OR SPECIFIED IN THE CONTRACT DOCUMENTS AND OTHERWISE REQUIRED FOR THE FURNISHING OF A FUNCTIONALLY COMPLETE PROJECT. REINFORCE AROUND OPENINGS PER

STANDARD STRUCTURAL DETAILS UNLESS OTHERWISE SHOWN.

CONCRETE SURFACE SHALL BE CLEAN, FREE OF LAITANCE, ROUGHENED TO A 1/4" AMPLITUDE, C5. PROVIDE 3/4" CHAMFERS AT ALL EXPOSED EDGES NOT ALL CHAMFERS MAY BE SHOWN ON DRAWINGS -EQUIP AB & COATED W/BONDING AGENT \_EQUIP C6. FIELD ADJUST REINFORCING AT OPENINGS AND EMBEDDED ITEMS AS INDICATED -#4@12 EW BASE #4 CLOSED TIE ADIMIN CONT @ PERIMETER — ←8" LEG TYP C7. ANCHOR BOLTS NOT SPECIFIED BY ENGINEER SHALL BE DESIGNED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER, RETAINED BY THE CONTRACTOR, IN ACCORDANCE WITH APPLICABLE PROJECT AND CODE REQUIREMENTS. SUBMIT AS A SHOP DRAWING FOR REVIEW AND APPROVAL BY 1/2" 3 1/2" MIN-CLR ENGINEER. COORDINATE LOCATION, SIZE AND EMBEDMENT PRIOR TO AS REQD SEE NOTE 2 BELOW C8. ABSOLUTELY NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED WITHOUT SPECIFIC APPROVAL FROM THE STRUCTURAL ENGINEER. #4@12 TYP PLACE VERT LEG IN 3/4" DIA DRILLED HOLE FILLED W/NON-SHRINK GROUT OR #4@12 HOOKED EE CAST INTO SLAB —

#### NOTES:

PROVIDE ABOVE PAD UNDER ALL STATIC, NON-VIBRATING ELECTRICAL AND MECHANICAL EQUIPMENT SUPPORTED ON STRUCTURAL SLABS. ALSO PROVIDE FOR EQUIPMENT WEIGHING LESS THAN 5000 POUNDS WHICH ARE SUPPORTED ON GRADE OR WHERE SPECIFICALLY NOTED ON PLANS, STRUCTURAL ENGINEER TO REVIEW AND PROVIDE PROJECT SPECIFIC DESIGN FOR ALL EQUIPMENT PADS.

-3/4" CHAMFER TYP

-3" CLR @ SLAB ON

GRADE 1 1/2" CLR

© ELEVATED SLABS

SEE PLAN FOR SLAB THICKNESS

PAD THICKNESS SHALL BE THE LARGER OF SLAB THICKNESS PLUS 3 1/2" OR MINIMUM PAD THICKNESS FROM TABLE. PROVIDE AN ADDITIONAL LAYER OF #4012 EACH WAY WITH 1 1/2" CLEAR TOP AND BOTTOM FOR EACH 8" ADDITIONAL PAD THICKNESS EXCEPTING THE 3 1/2" MINIMUM THICKNESS. ALTERNATIVELY, THICKEN SLAB ON GRADE BELOW EQUIPMENT PAD AS REQD TO MAINTAIN MIN 3" COVER ON ANCHOR BOLTS

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### PAD NOTES:

COLOR OF ROOF.

HOOK LENGTH

HW

#9 1'-7" 11 3/4" 10 1/2" 9 1/2"

#11 2'-0" 1'-2 3/4" 1'-1" 12"

\* COMPLYING WITH MINIMUM COVER REQUIREMENTS OF

HI

1'-2"

1'-10"

#8 1'-4"

COVER

BAR SIZE

GRADE 60

#3

#4 8"

#5 10"

#6

#7

#10

COLOR OF SUPPORT STEEL

- CONCRETE JOINT

90 DEG STD HOOK 180 DEG STD HOOK

3 3/4"

4 1/2

5 1/4"

6"

REINFORCING HOOK SCHEDULE

TI

4 1/2"

5"

7"

8"

1'-1 1/4" 11 1/2" 10 3/4"

ACI 318, 12.5.3, OTHERWISE Ldh MUST BE RE-CALCULATED

HOOK WIDTH

f'c=4.0 OR 4.5 KSI

Ldh \*

12"

14"

15"

ABOVE PAD DETAILS APPLY FOR SUPPORT OF STATIC, NON-VIBRATING EQUIPMENT UNLESS INDICATED OTHERWISE ON THE DRAWINGS. STRUCTURAL ENGINEER TO REVIEW AND PROVIDE PROJECT SPECIFIC DESIGN FOR EQUIPMENT

2. BEFORE EQUIPMENT SUPPORT PADS ARE CAST, THE PAD SIZES AND REINFORCING SHALL BE APPROVED BY THE ENGINEER AS BEING CAPABLE OF SUPPORTING EQUIPMENT TO BE PLACED THEREON. EQUIPMENT BASE DIMENSIONS SHALL BE THE LARGER OF AS DETERMINED BY THE EQUIPMENT MANUFACTURER OR AS INDICATED ON THE DRAWINGS. SUBMIT ALL EQUIPMENT DIMENSIONS AND LOADS TO ENGINEER. THE SIZE, NUMBER, TYPE, LOCATION AND THREAD PROJECTION OF THE ANCHOR BOLTS (AB) SHALL BE AS DETERMINED BY THE EQUIPMENT MANUFACTURER AND SHALL BE AS APPROVED BY THE ENGINEER. AS SHALL BE HELD IN POSITION WITH A TEMPLIATE WHILE FOLIPMENT BAD IS CAST SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE FOLIPMENT PAD IS CAST

\*3. 6" MINIMUM PAD EDGE DIMENSION TO EQUIPMENT AB APPLIES FOR ALL

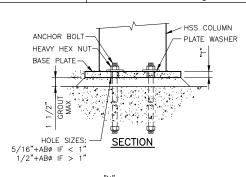
#### TYPICAL EQUIPMENT SUPPORT PAD 2

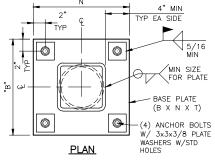
LAP SPLICE AND EMDEDMENT LENGTHS f'c = 4.0 ksi fy = 60 ksi

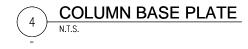
| f'c =4.5 ksi |                                   |   |  |  |  |  |
|--------------|-----------------------------------|---|--|--|--|--|
| BAR          | BARS SPACED<br>GREATER THAN<br>4" | BARS SPACEI<br>LESS THAN<br>OR EQUAL TO<br>4" |  |  |  |  |
| #3           | 14"                               | 20"   |  |  |  |  |
| #4           | 19"                               | 32"   |  |  |  |  |
| #5           | 29"                               | 46"   |  |  |  |  |
| #6           | 39"                               | 62"   |  |  |  |  |
| #7           | 55"                               | 87"   |  |  |  |  |
| #8           | 69"                               | 107"  |  |  |  |  |
| #9           | 76"                               | 116"  |  |  |  |  |
| #10          | 97"                               | 140"  |  |  |  |  |
| #11          | 120"                              | 146"  |  |  |  |  |

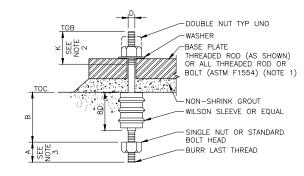
#### NOTES:

- PROVIDE MINIMUM LAP SPLICE LENGTHS AND EMBEDMENTS PER TARLE LINLESS NOTED OTHERWISE. EMBEDMENT LENGTH EQUALS THE LAP SPLICE LENGTH UNLESS OTHERWISE NOTED.
- BAR SPACING AT LAP SPLICE IS THE MINIMUM CLEAR DISTANCE RETWEEN LAPPED BARS PLUS ONE BAR DIAMETER.
- ALL SPLICES TO BE CONTACT SPLICES AND WIRED TOGETHER UNLESS OTHERWISE APPROVED BY ENGINEER.







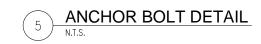


| SCHEDULE-ANCHOR BOLT TYPE A |        |     |        |         |  |  |  |  |  |
|-----------------------------|--------|-----|--------|---------|--|--|--|--|--|
| D A                         |        | В   | K      | REMARKS |  |  |  |  |  |
| 3/8"                        | 1"     | 6"  | 2 3/4" |         |  |  |  |  |  |
| 1/2"                        | 1 1/4" | 8"  | 3"     |         |  |  |  |  |  |
| 5/8"                        | 1 1/2" | 10" | 3 1/4" |         |  |  |  |  |  |
| 3/4"                        | 1 3/4" | 12" | 3 1/2" |         |  |  |  |  |  |
| 7/8"                        | 2"     | 14" | 3 3/4" |         |  |  |  |  |  |
| 1"                          | 2 1/4" | 16" | 4"     |         |  |  |  |  |  |
| 1 1/8"                      | 2 1/2" | 18" | 4 1/4" |         |  |  |  |  |  |
| 1 1/4"                      | 2 3/4" | 20" | 4 1/2" |         |  |  |  |  |  |
| 1 3/8"                      | 3"     | 22" | 4 3/4" |         |  |  |  |  |  |
| 1 1/2"                      | 3 1/4" | 24" | 5"     |         |  |  |  |  |  |
| 1 3/4"                      | 3 3/4" | 28" | 5 1/2" |         |  |  |  |  |  |
| 2"                          | 4 1/4" | 32" | 6"     |         |  |  |  |  |  |
| 2 1/2"                      | 5 1/2" | 48" | 7"     |         |  |  |  |  |  |
| 3"                          | 6 1/4" | 66" | 8"     |         |  |  |  |  |  |

## NOTES: PROVIDE SST ANCHOR BOLTS WHERE INDICATED IN SECTIONS AND DETAILS.

STANDARD BOLT THREAD LENGTH MAY BE USED WHERE APPLICABLE.

3. DIMENSION IN SCHEDULE OR STANDARD BOLT HEAD



## FOR SAMPLE ONLY

RECORD DRAWINGS

DATE: XX/XX/XX REVISIONS DRAWN BY: XX

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWING

COB # (XXXXXX) SHEET X OF X

VERIFY SCALES

BAR EQUALS ONE INCH ON ORIGINAL DRAWING

G-007

0

SHEET

NOTE

STRUCTURAL

GENERAL

ENERAL

G

SS

(CONSULTANT ENGINEER NAME, ADDRESS & PHONE NUMBER)

OREGON

DESCHUTES COUNTY,

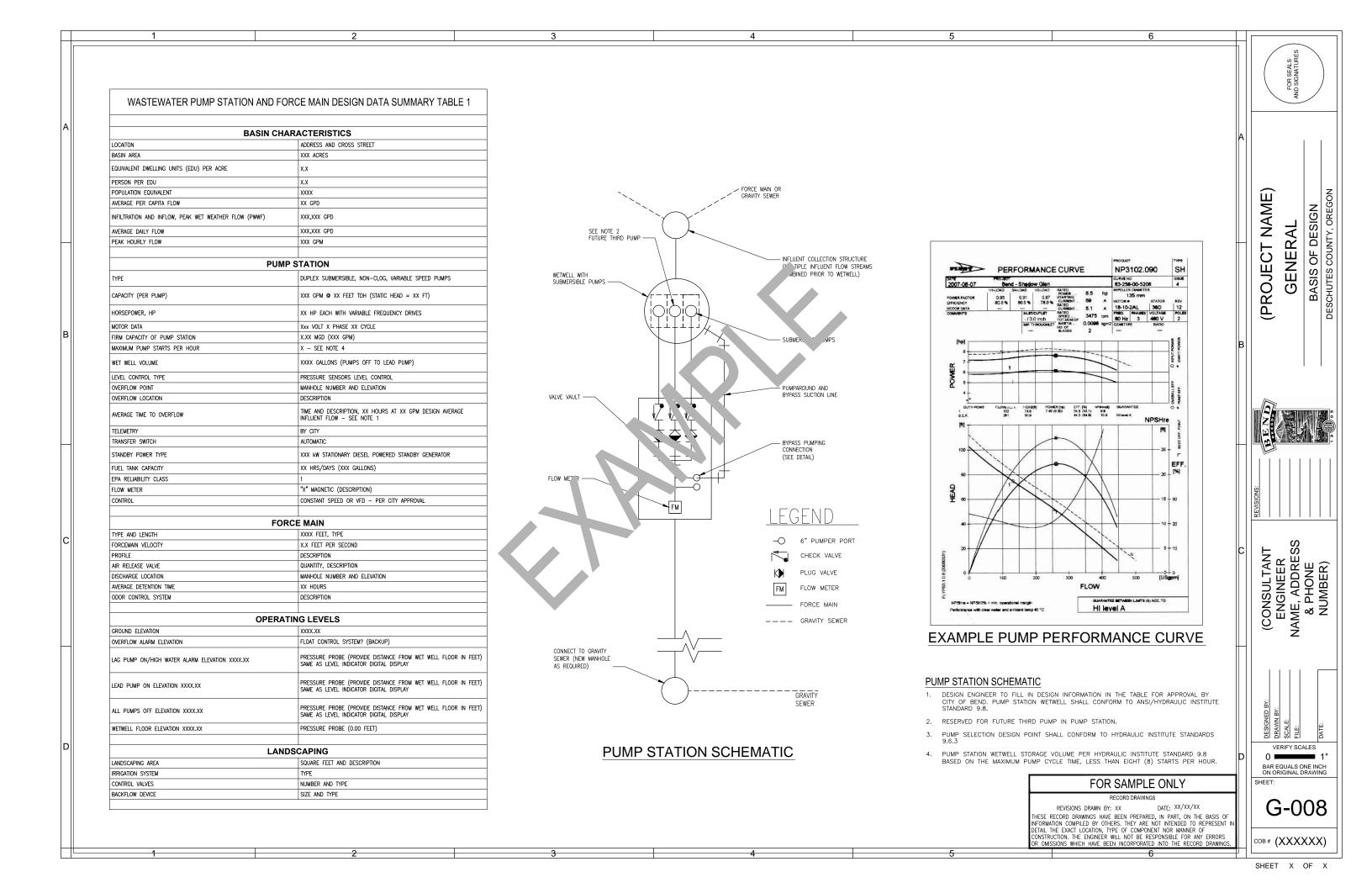
NAME)

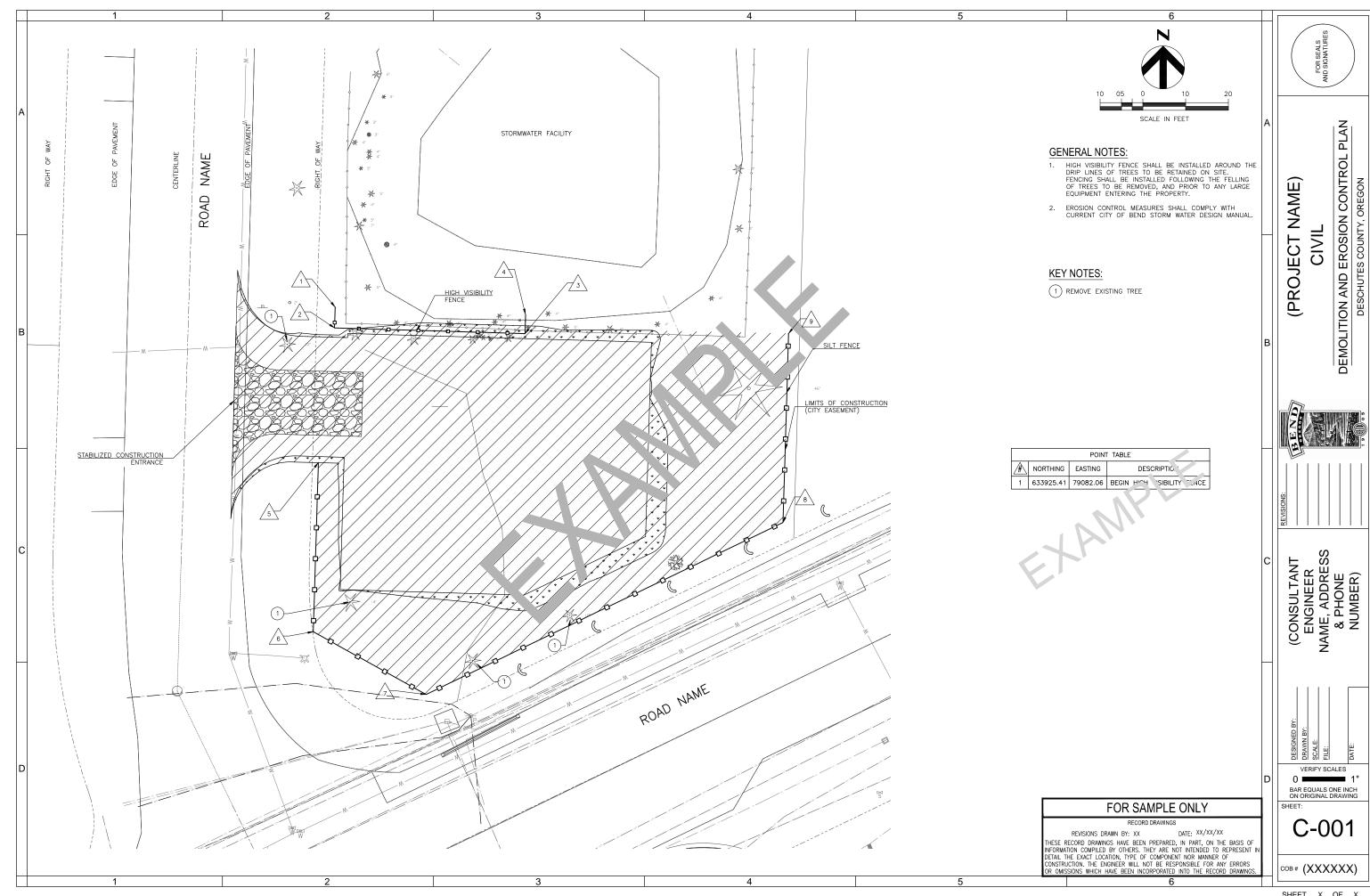
CT

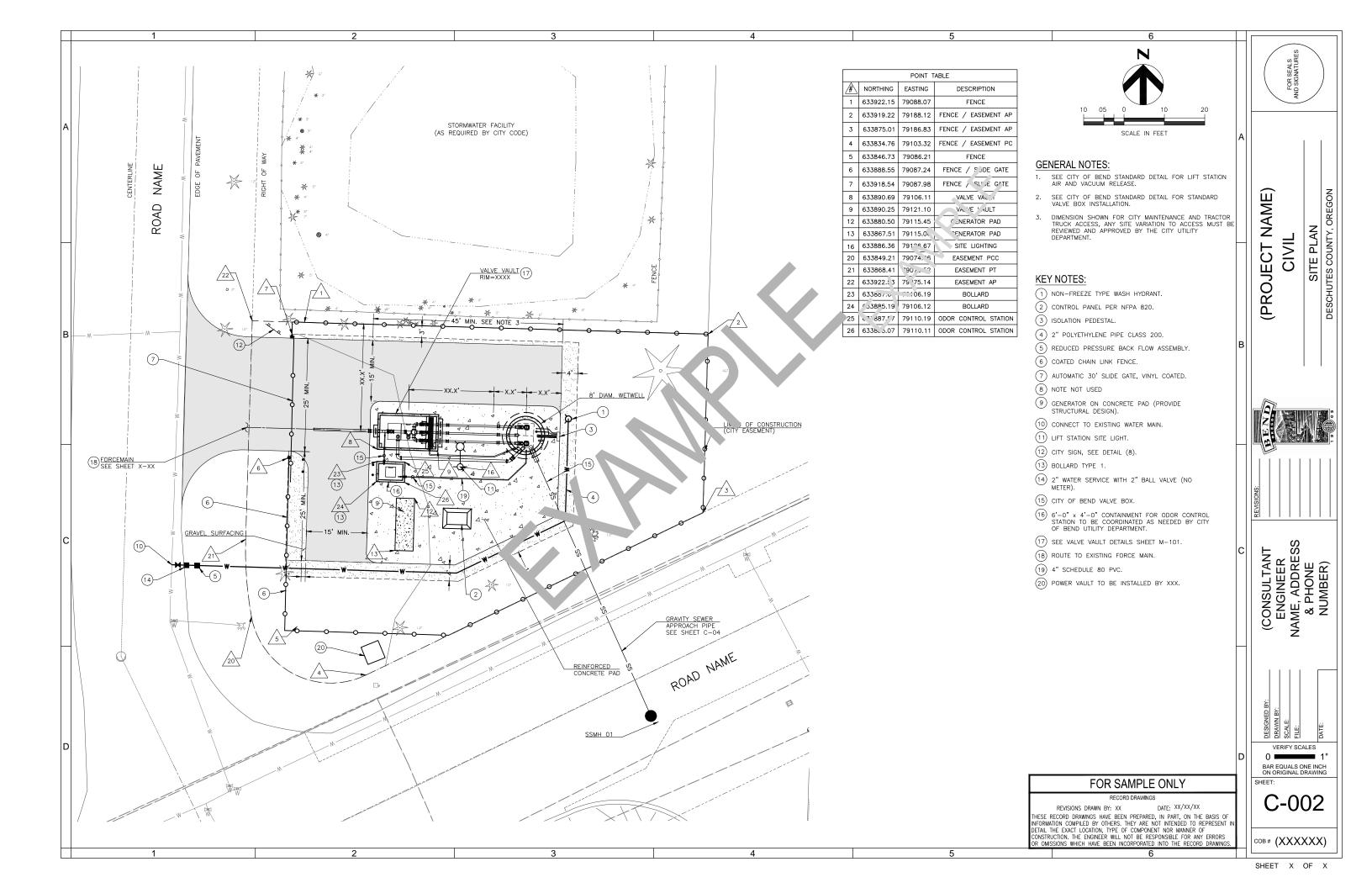
(PROJE

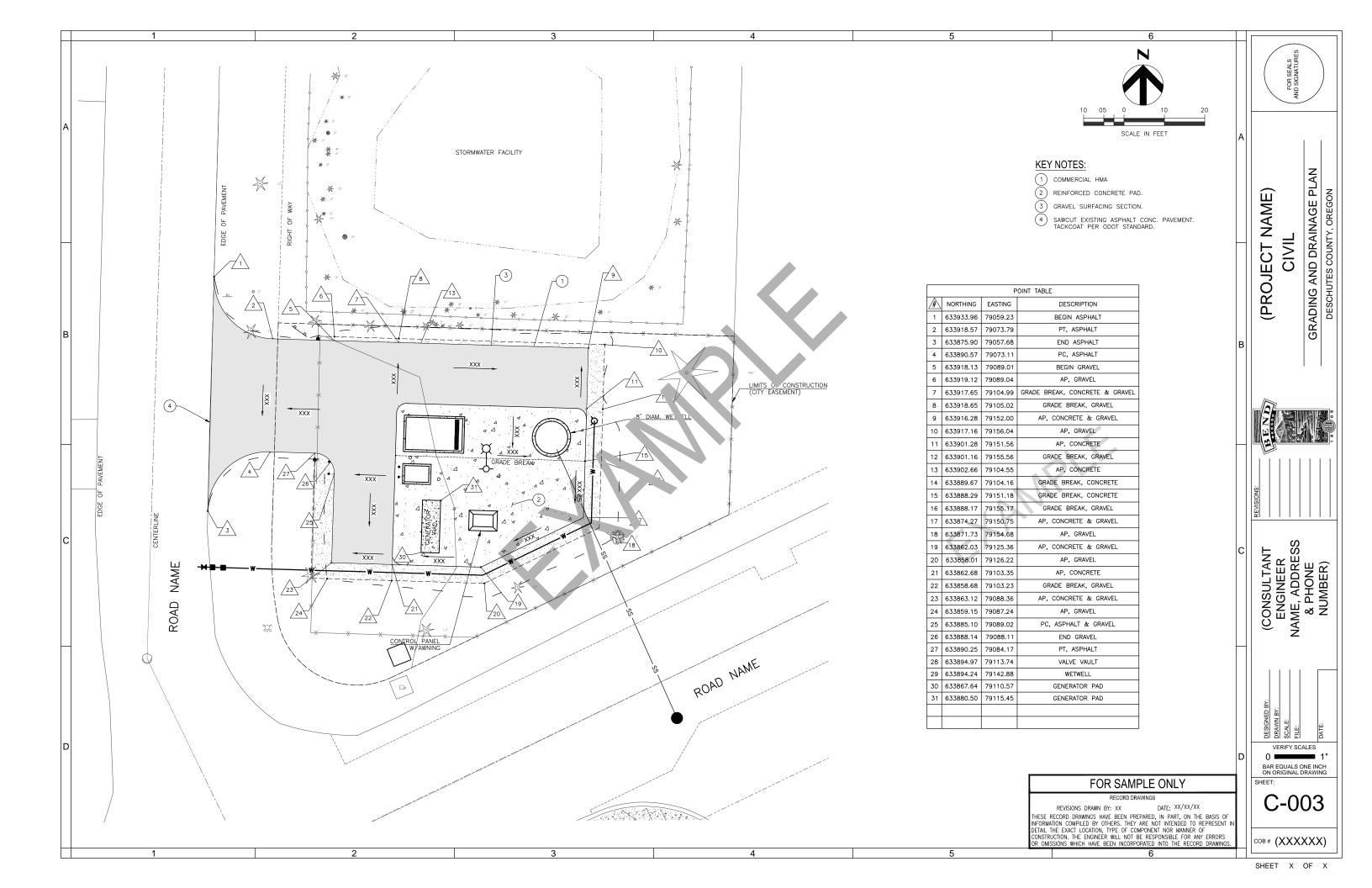
CONCRETE REINFORCING LAP AND

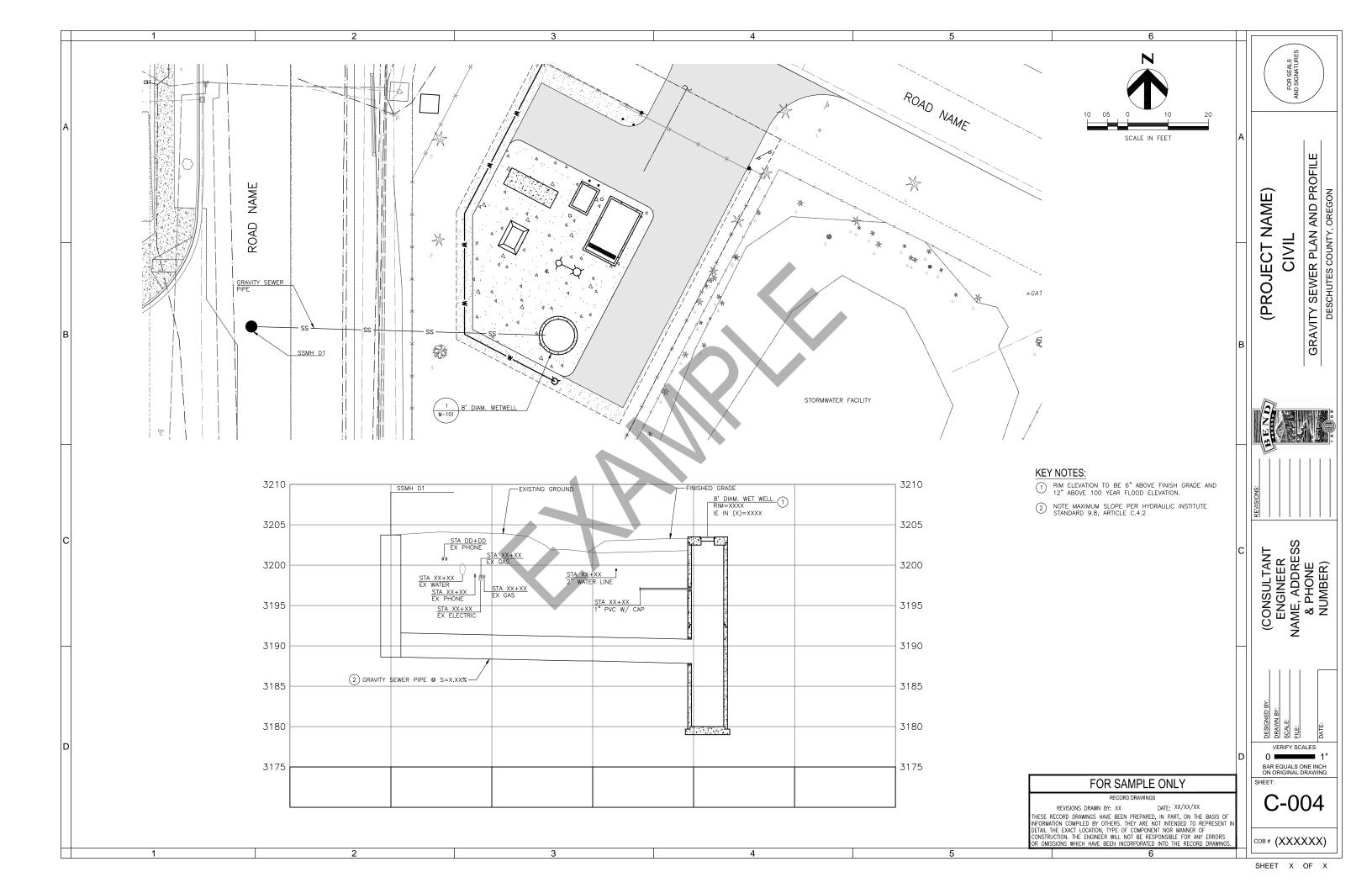
**EMBEDMENT SCHEDULE** 

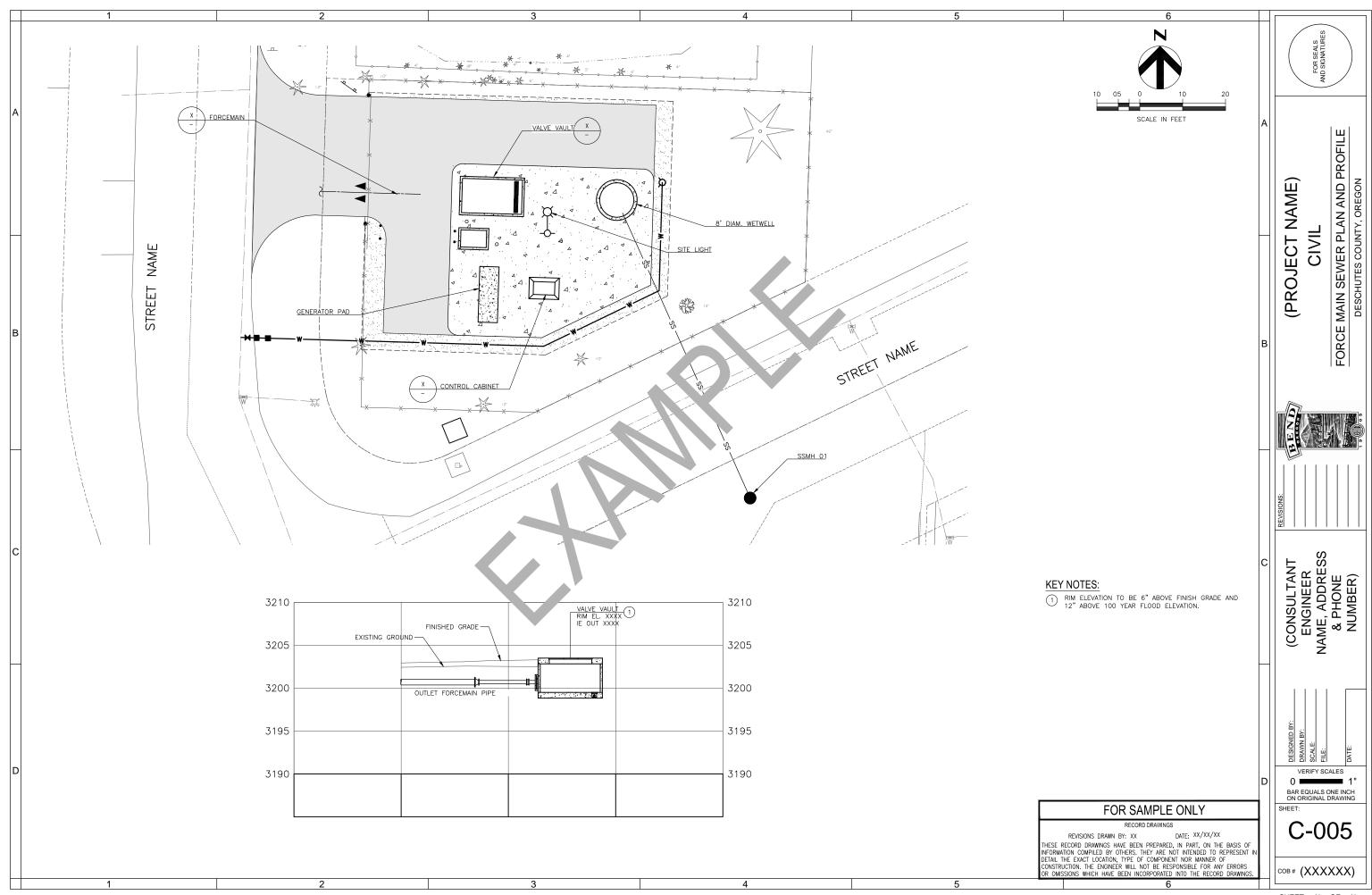


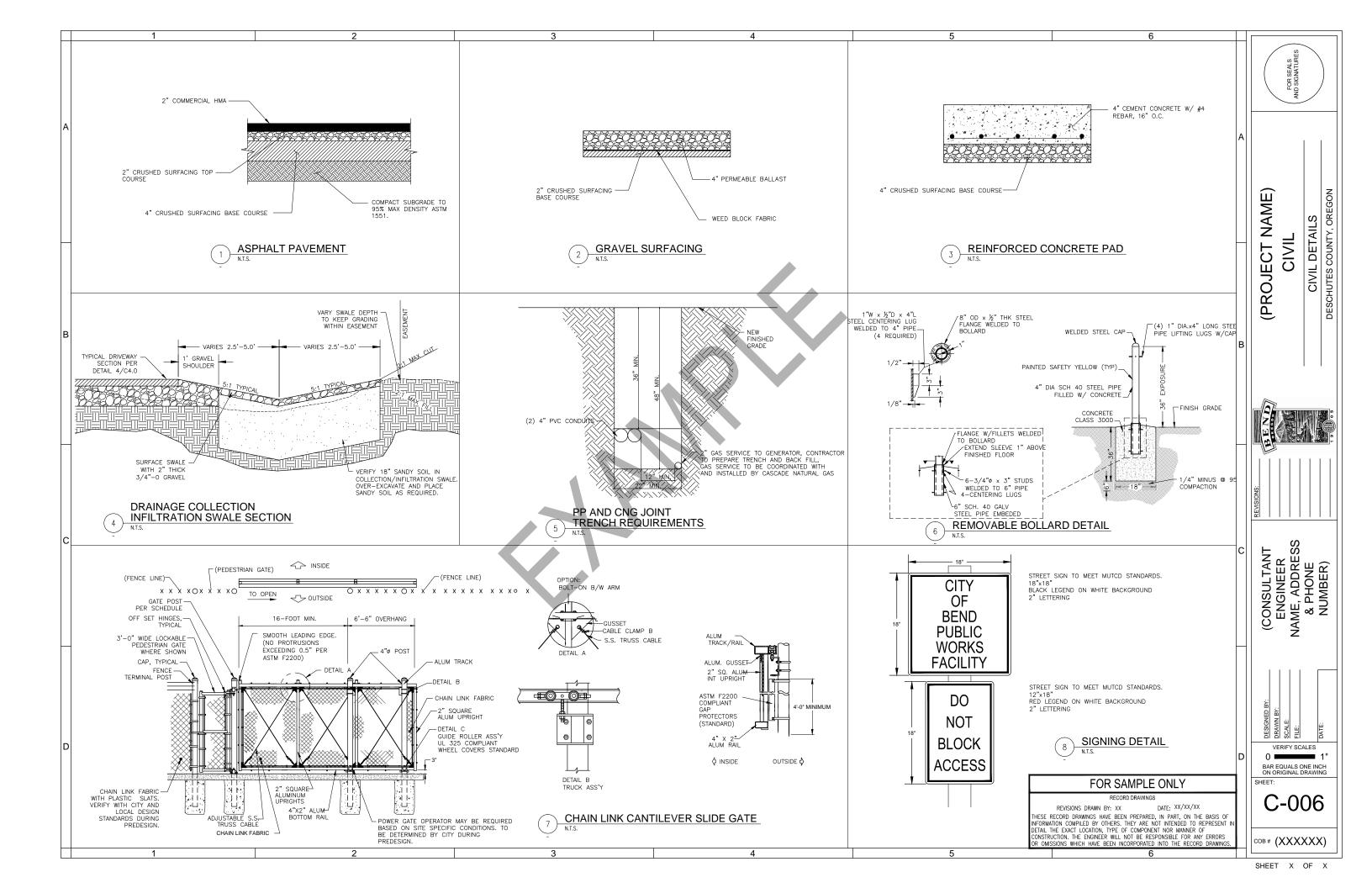


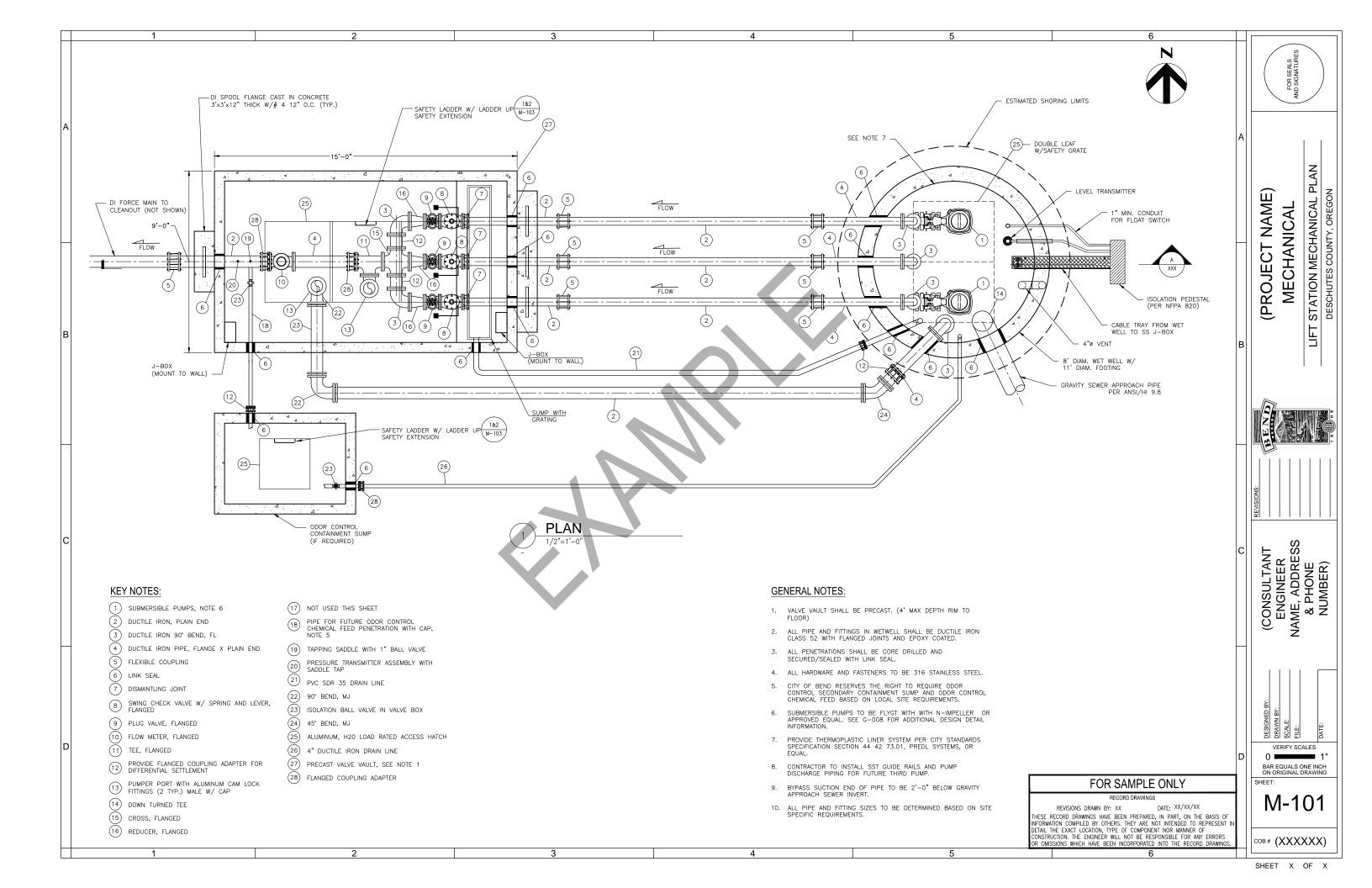


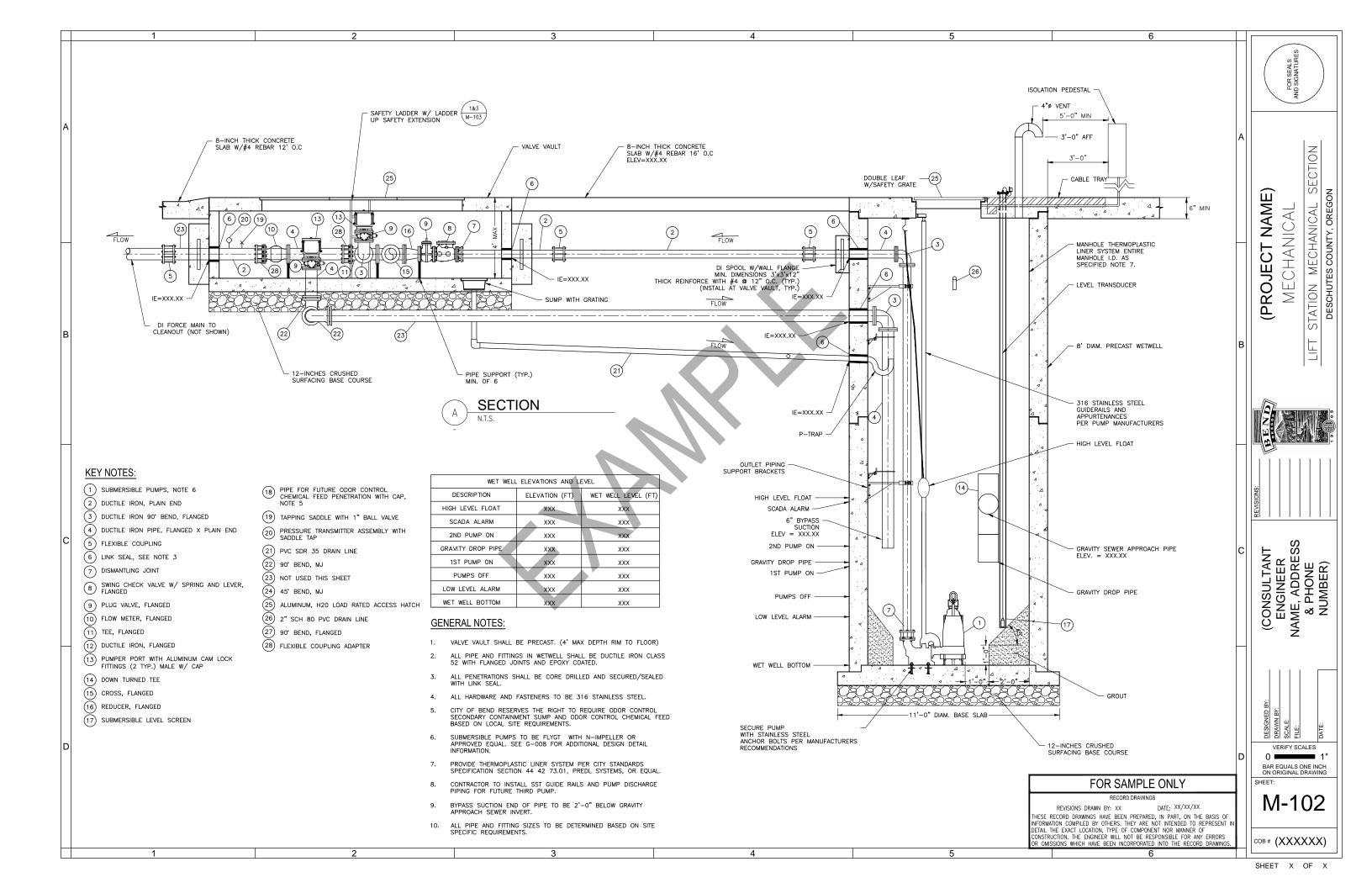


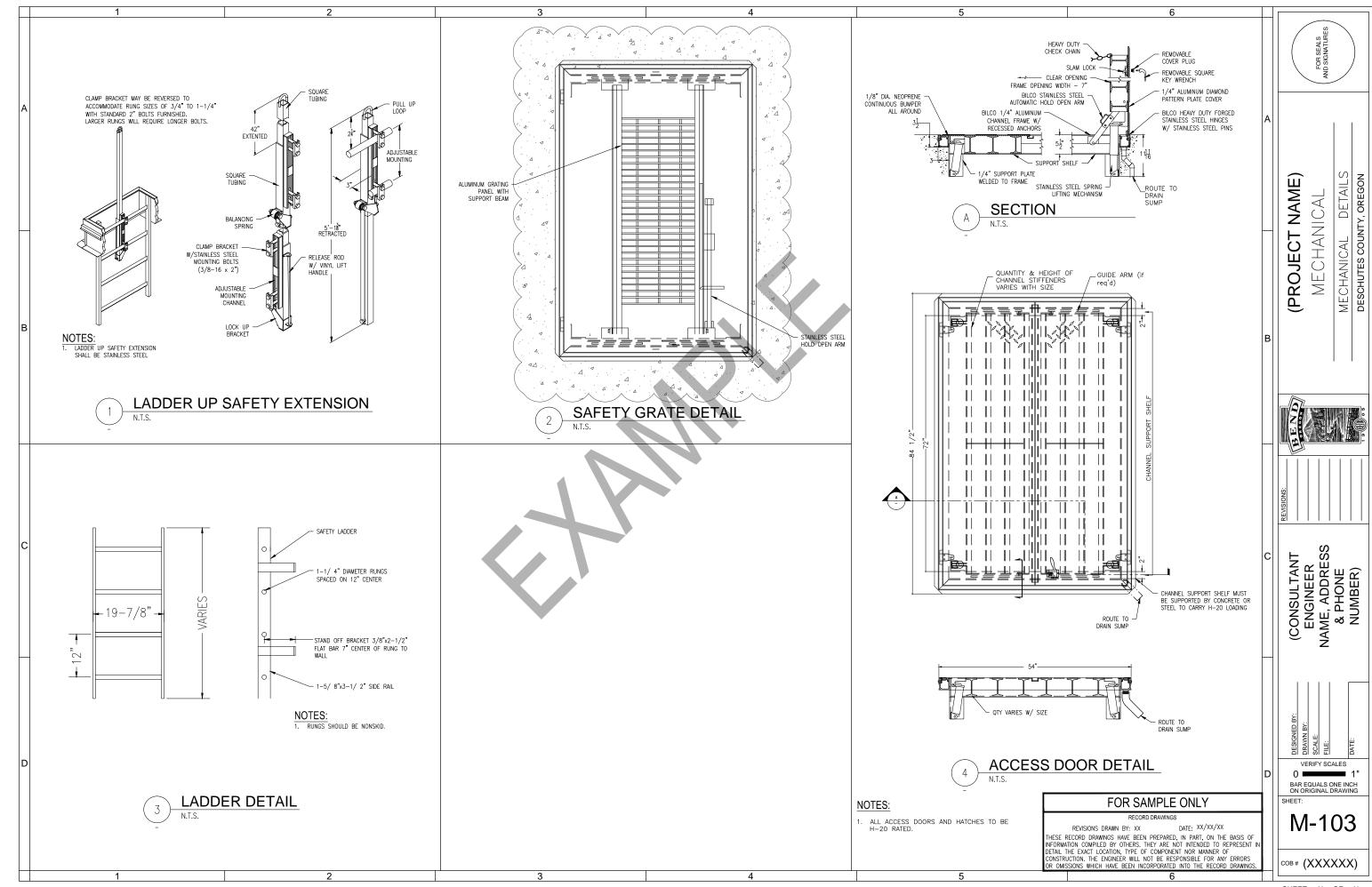


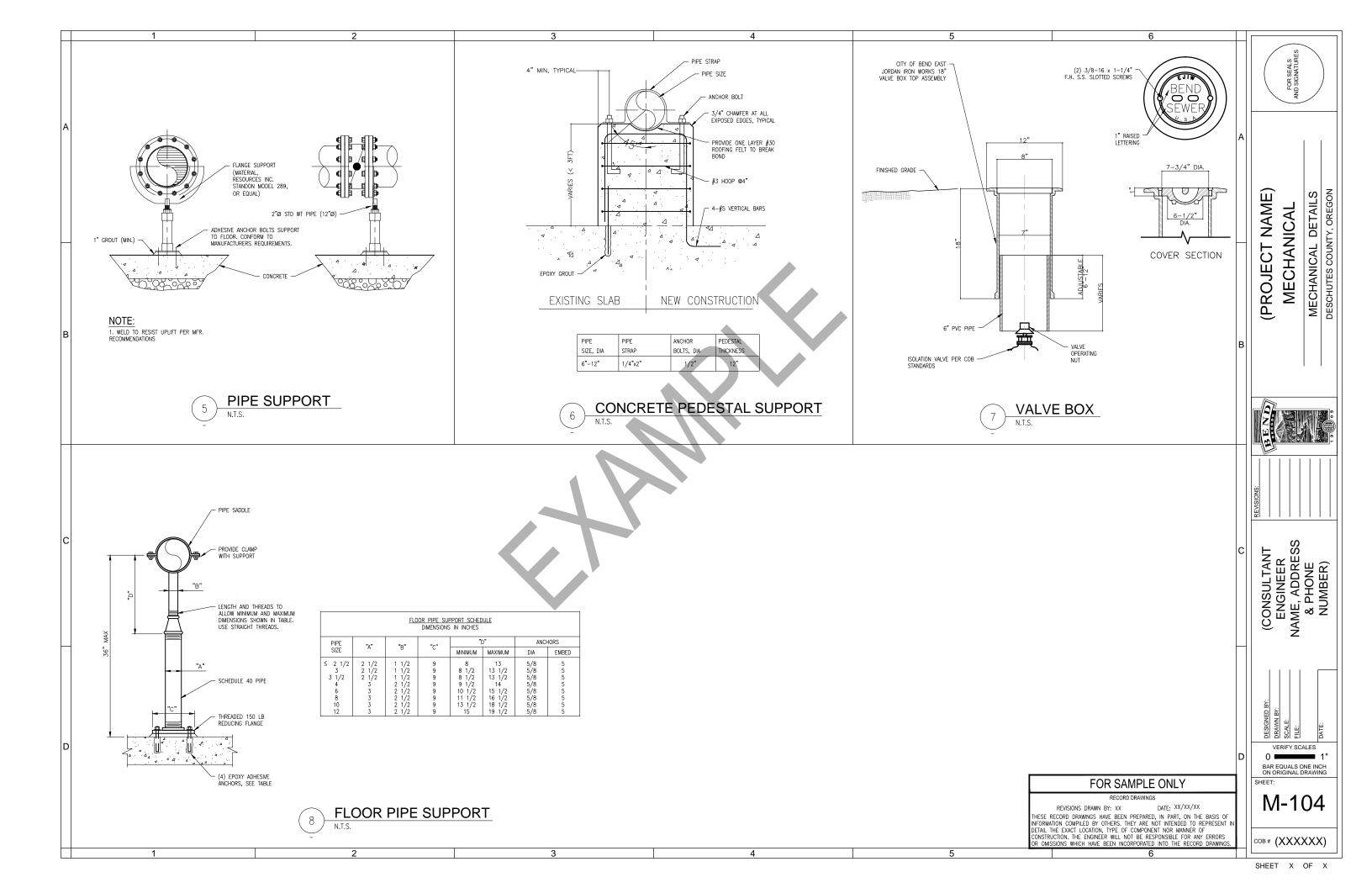


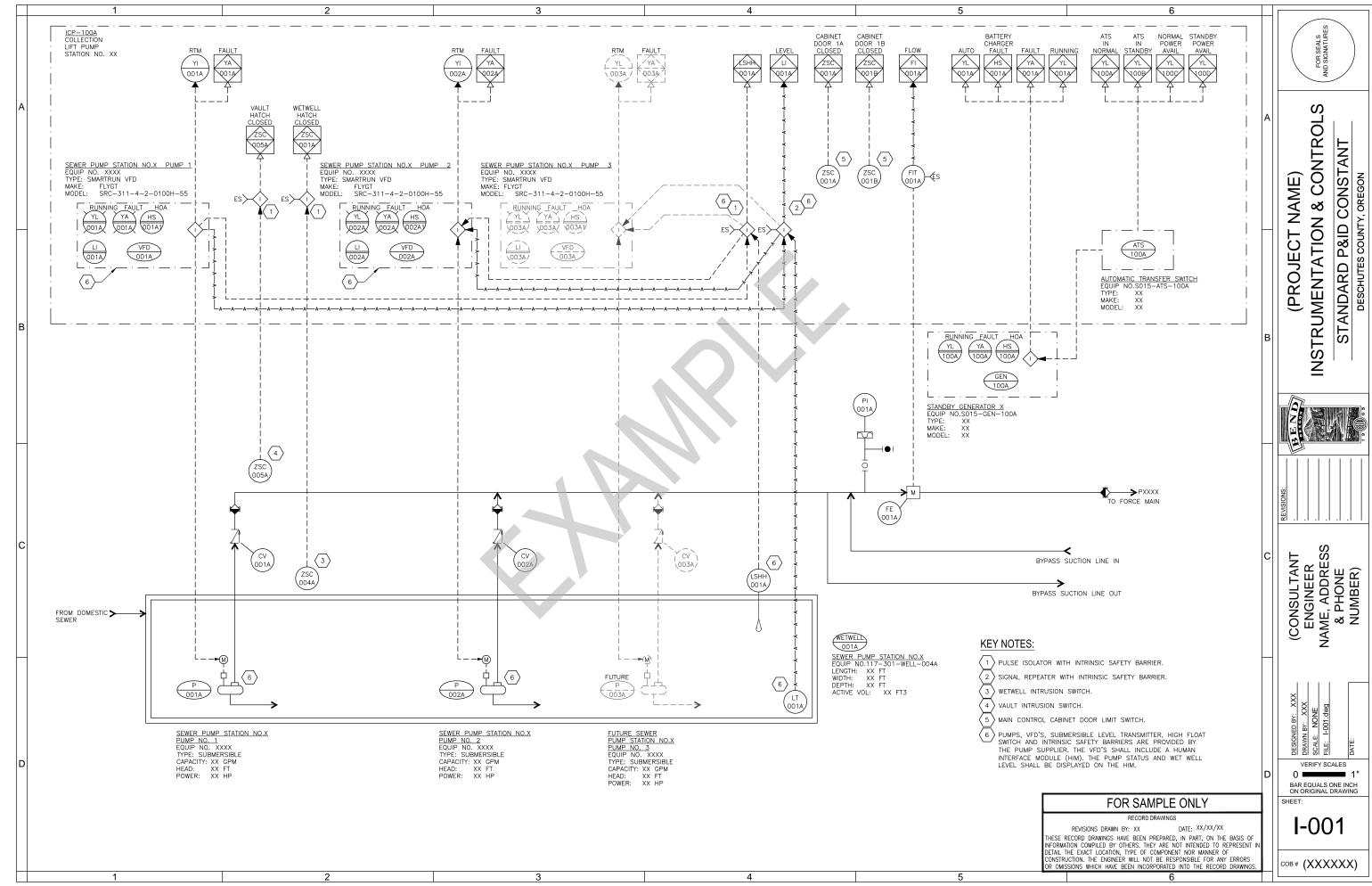


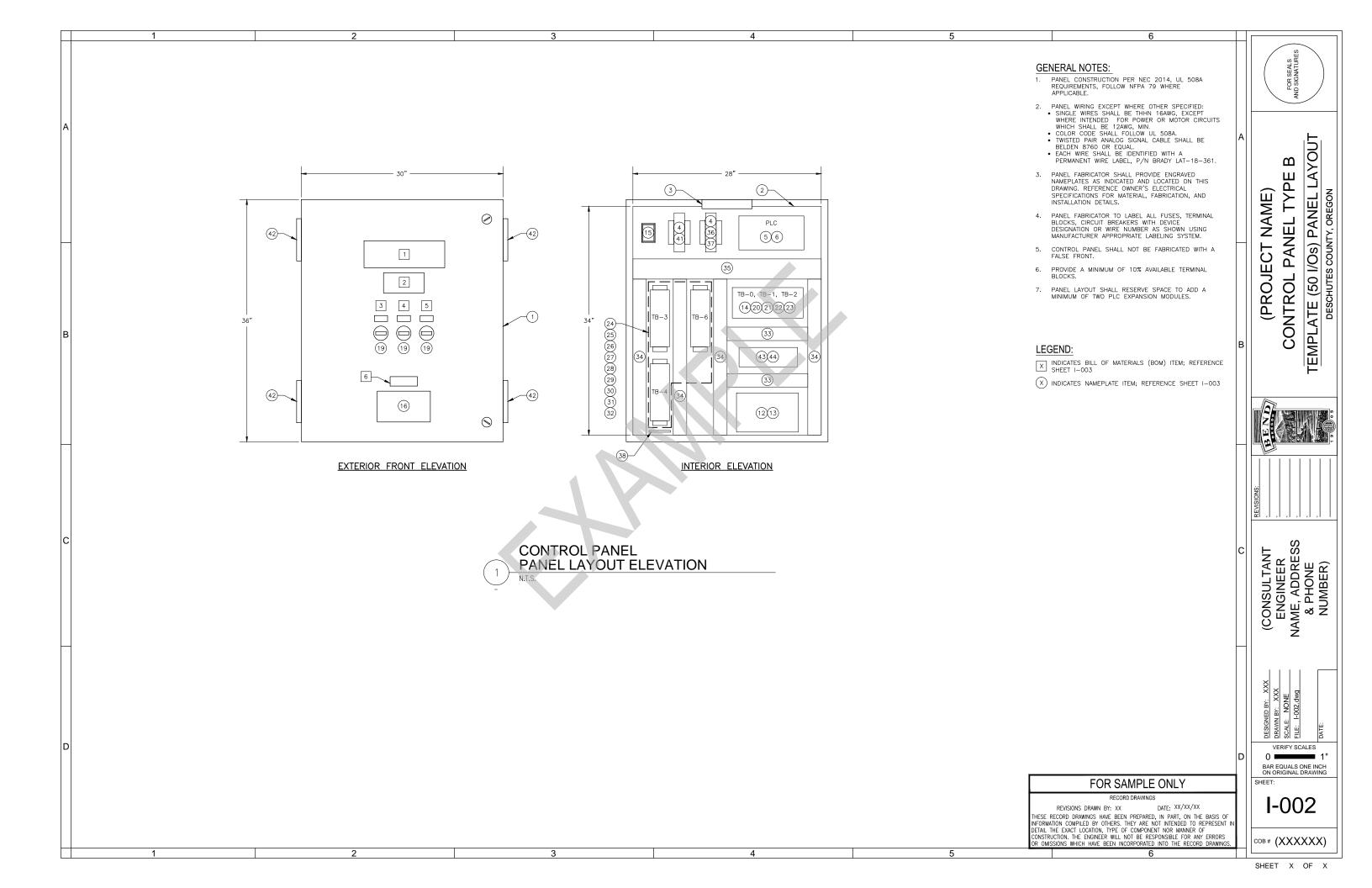




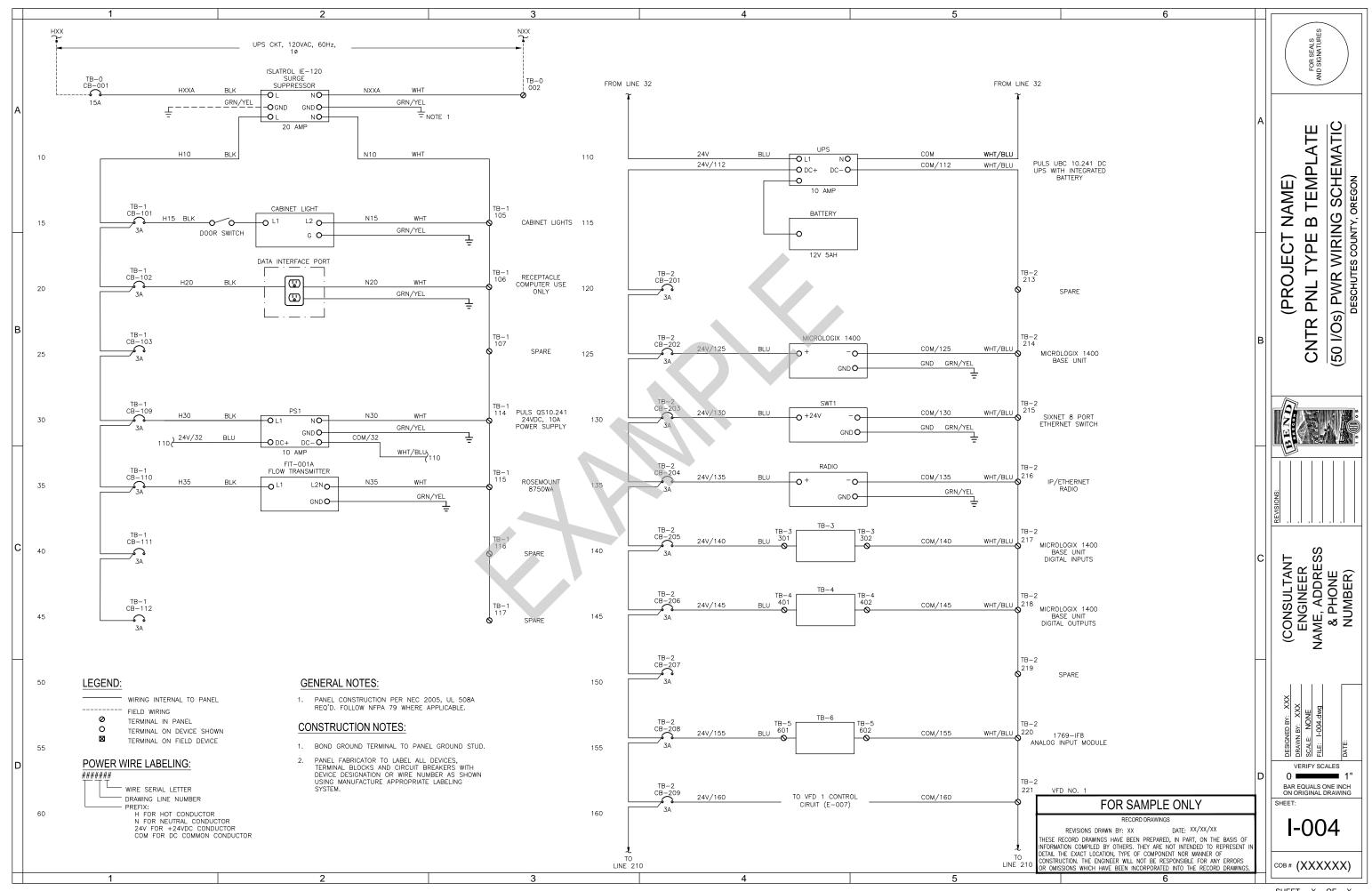


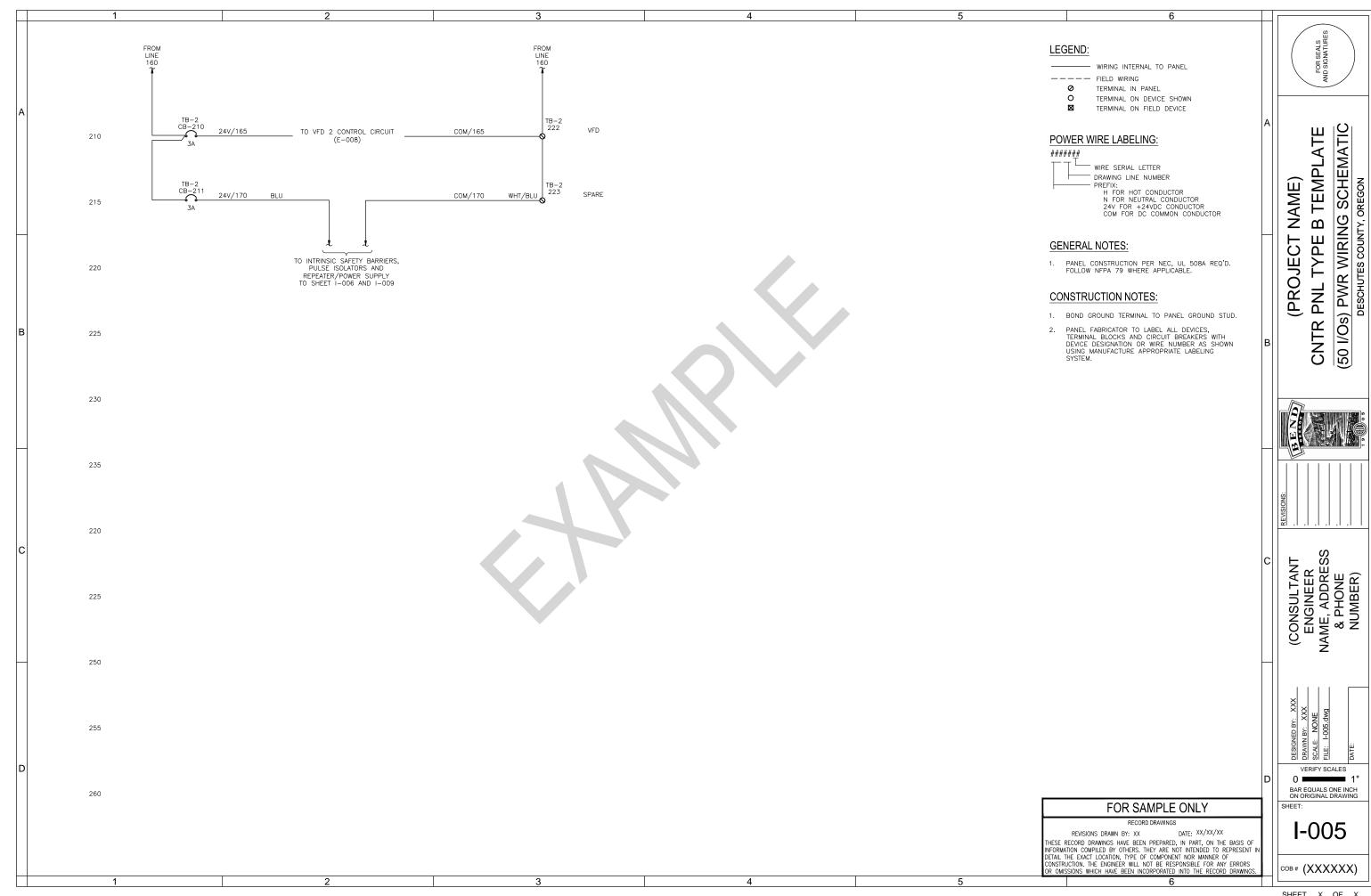


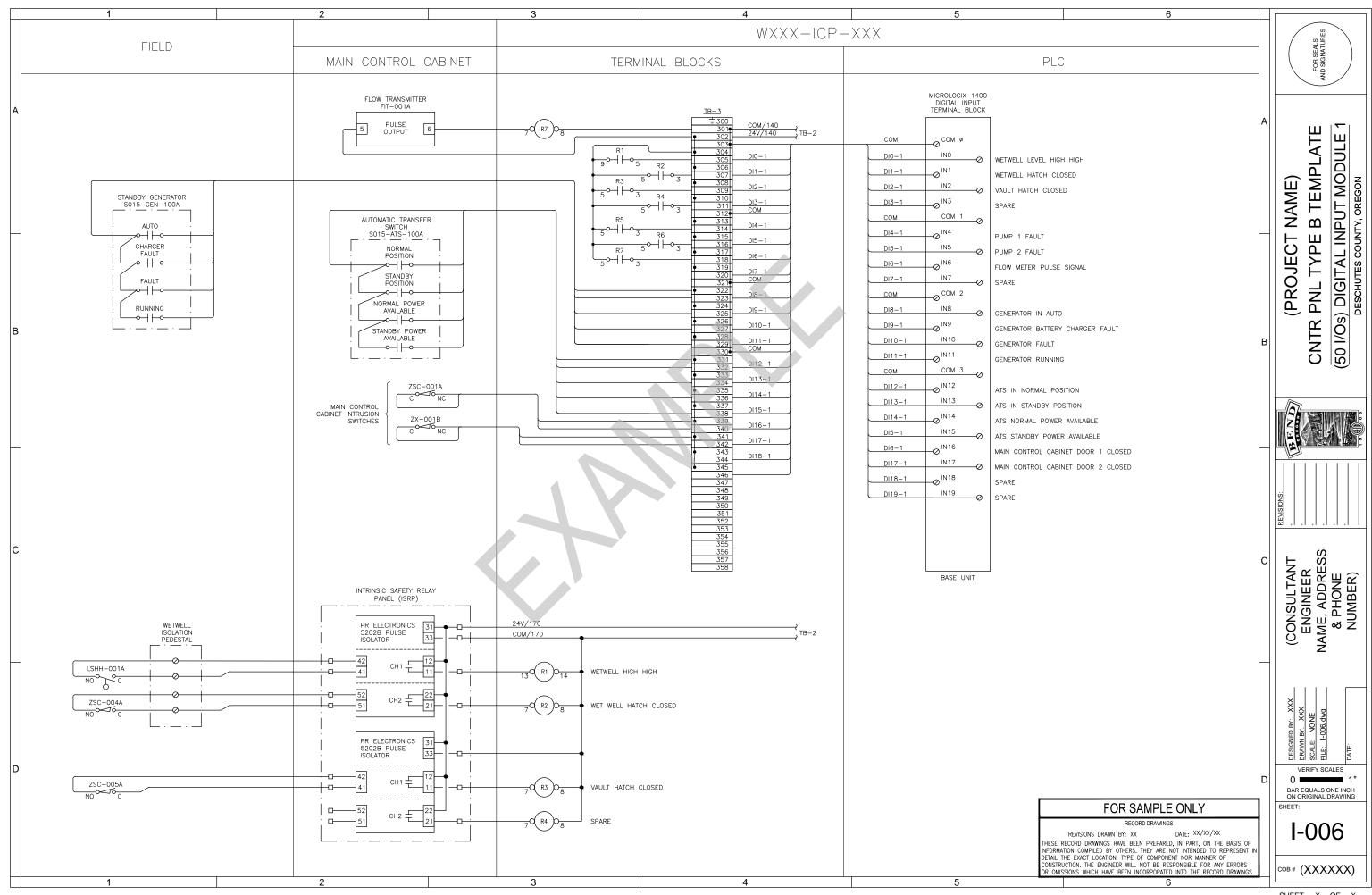


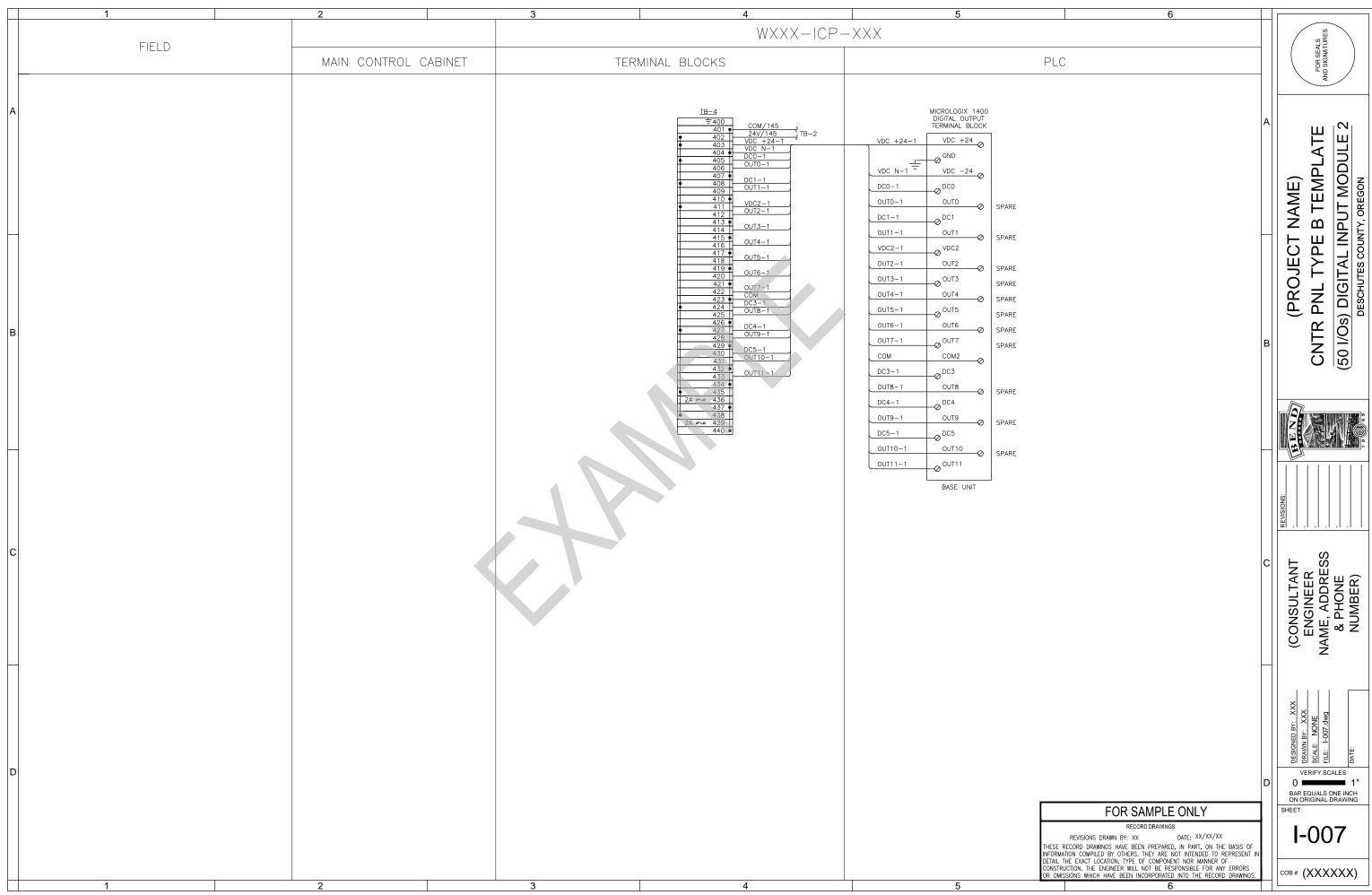


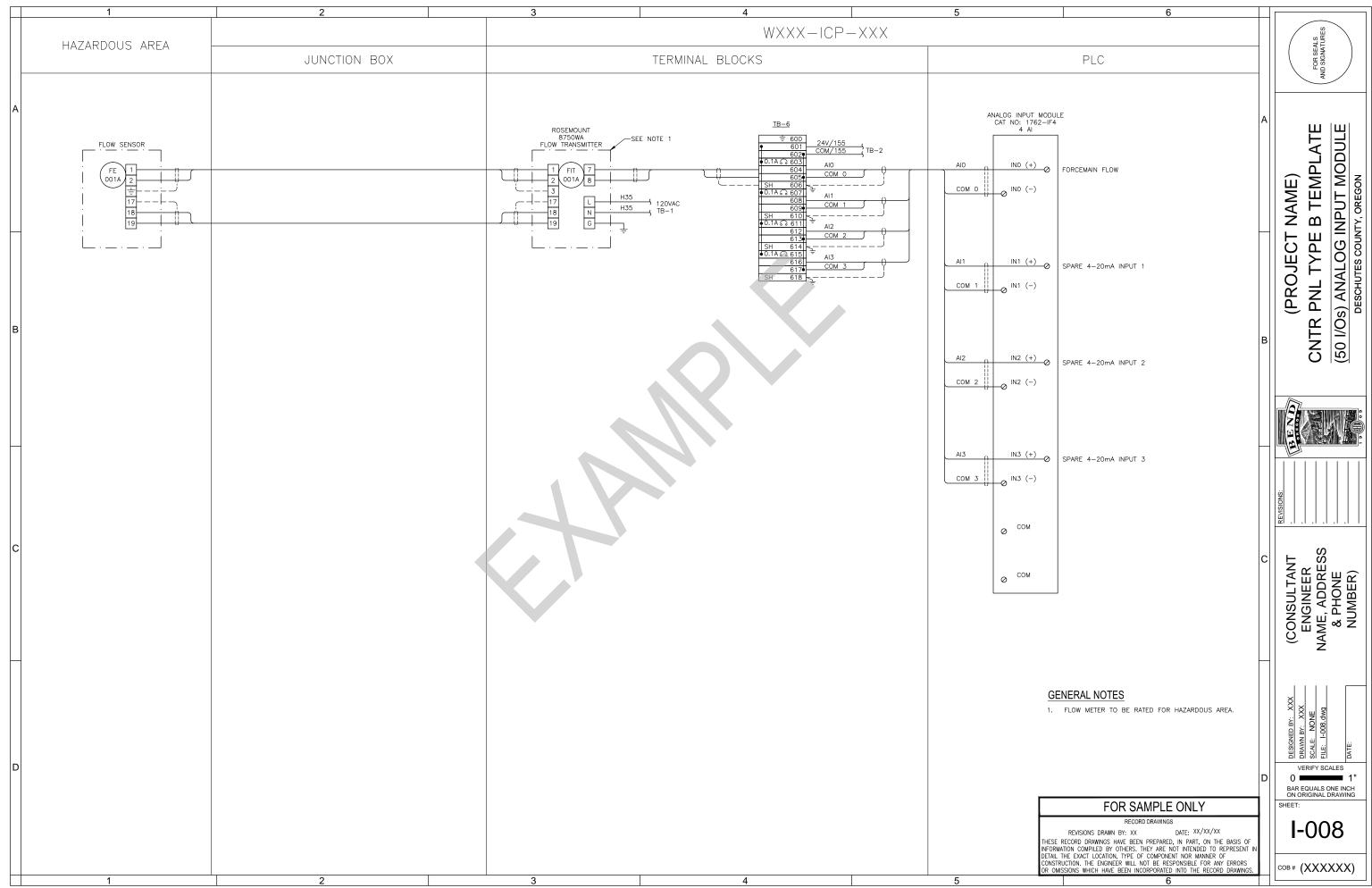
|                                       |   | BILL OF MATER              | IAI S                                      |          |              |      | NAMEPLATE SCHEDULE                  | <u> </u>                                       |   |             |
|---------------------------------------|---|----------------------------|--|----------|--------------|------|-------------------------------------|--|---|-------------|
| ITEM QTY                              | DESCRIPTION   | MANUFACTURE                | MODEL/CAT #                                | SUPPLIER | NAMEPLATE    | LINE | NAMEPLATE                           |  | LETTERING SIZE  |             |
|                                       | ENCLOSURE   | HOFFMAN                    | CSD363010 OR APPROVED EQUAL                | PF       | TO WILL EXTE | 1    | LIFT STATION XX LOCAL CONTROL PANEL | 12112 3122                                     | 1/2"  |             |
| <del></del>                           | BACK PANEL  | HOFFMAN                    | CP3630                                     | PF       | 1            | 2    | WXXX-ICP-XXXB                       | 4" X 10"                                       | 1"  |             |
| (3) 1                                 | LIGHTING KIT  | HOFFMAN                    | ALF16D12R                                  | PF       |              | _    | _                                   |  | -   |             |
| (4) AR                                | MOUNTING ALUMINUM BRACKETS  | SHOP SUPPLY                | SHOP SUPPLY                                | PF       |              | 1    | 120VAC POWER                        |  | 1/4"  |             |
| (5) 1                                 | MICROLOGIX 1400 WITH ETHERNET PORT  | ALLEN-BRADLEY              | 1766-L32BXB                                | PF       | 2            | 2    | FROM PANELS                         | 3" X 6"  | 1/4"  |             |
| 6 1                                   | 1762 AI MODULE  | ALLEN-BRADLEY              | 1762-IF4                                   | PF       |              | 3    | XXXXXX & XXXXXX                     |  | 1/4"  |             |
| (7)   -                               | _   | -                          | -  | -        |              | 1    | PUMP 1 RTM                          |  | 3/16"   |             |
| (8) -                                 | _   | -                          | =  | =        | 3            | -    | -                                   | 1/2" X 1"                                      | -   | ,           |
| (9) -                                 |   | -                          | -  | -        |              | -    | -                                   |  | -   |             |
| (10) -                                |   | -                          | -  | -        |              | 1    | PUMP 2 RTM                          |  | 3/16"   |             |
| (11) -                                | -   | -                          | -  | _        | 4            | -    | -                                   | 1/2" X 1"                                      | -   |             |
| $\rightarrow$                         | 24VDC POWER SUPPLY  | PULS                       | QS10.241                                   | PF       |              | -    | -                                   |  | -   |             |
| $\rightarrow$                         | 24VDC UPS WITH INTEGRATED BATTERY   | PULS                       | UBC10-241                                  | PF PF    |              | 1    | PUMP 3 RTM                          | 4 /0" \/ 4"                                    | 3/16"   |             |
| $\rightarrow$                         | 15A CIRCUIT BREAKER SURGE SUPPRESSOR  | ALLEN-BRADLEY              | 1492-SP1C150                               | PF PF    | 5            | -    | _                                   | 1/2" X 1"                                      | -   |             |
|                                       | DATA INTERFACE PORT   | CONTROL CONCEPTS           | ISLATROL IE-120                            | PF       |              | -    | PODTADLE DECCRANNING                |  | 7/46"   |             |
| (16) 1                                |   | HOFFMAN                    | HGF5CN                                     | _ Fr     | 6            |      | PORTABLE PROGRAMMING TERMINAL POWER | 1" X 3"  | 3/16"<br>3/16"  |             |
| (18) -                                | _   | -                          | _  | _        |              | 3    | ONLY ONLY                           |  | 3/16"   |             |
|                                       | ELECTROMECHANICAL HOUR METER  | REDINGTON                  | 732-0014                                   | PF       |              |      | ONE                                 |  | 3/10  |             |
|                                       | 10A CB4200 SERIES CIRCUIT BREAKER   | WEIDMULLER                 | 910 190 3500                               | PF       |              |      |                                     |  |   |             |
| $\rightarrow$                         | 0.5A CB4200 SERIES CIRCUIT BREAKER  | WEIDMULLER                 | 910 100 3500                               | PF       |              |      |                                     |  |   |             |
| $\rightarrow$                         | 3A CB4200 SERIES CIRCUIT BREAKER  | WEIDMULLER                 | 910 170 3500                               | PF       |              |      |                                     |  |   |             |
| (23) AR                               | 2A CB4200 SERIES CIRCUIT BREAKER  | WEIDMULLER                 | 910 150 3500                               | PF       |              |      |                                     |  |   |             |
| (24) AR                               | 0.1A CB4200 SERIES CIRCUIT BREAKER  | WEIDMULLER                 | 910 417 3500                               | PF       |              |      |                                     |  |   |             |
| (25) AR                               | FEED THROUGH TERMINAL WDU 2.5 (BEIGE)   | WEIDMULLER                 | -  | PF       |              |      |                                     |  |   |             |
| $\rightarrow$                         | FEED THROUGH TERMINAL WDU 2.5 BL (BLUE)   | WEIDMULLER                 | -  | PF       |              |      |                                     |  |   |             |
| (27) AR                               | GROUNDING TERMINAL WPE 2.5  | WEIDMULLER                 | -  | PF       |              |      |                                     |  |   |             |
| (28) AR                               | END PLATE WAP 2.5-10 (BEIGE)  | WEIDMULLER                 | -  | PF       |              |      |                                     |  |   |             |
| $\rightarrow$                         | END PLATE WAP 2.5-10 BL (BLUE)  | WEIDMULLER                 | -  | PF       |              |      |                                     |  |   |             |
| $\rightarrow$                         | PARTITION WTW EN (DARK BEIGE)   | WEIDMULLER                 | -  | PF       |              |      |                                     |  |   |             |
| $\rightarrow$                         | END BRACKET WEW 35/2 (DARK BEIGE)   | WEIDMULLER                 | -  | PF       |              |      |                                     |  |   |             |
| $\rightarrow$                         | ZINC PLATED YELLOW-CHROMATE STEEL T-35 DIN RAIL                                       | SHOP SUPPLY                | SHOP SUPPLY                                | PF PF    |              |      |                                     |  |   |             |
|                                       | 1.5" W X 3" D WIREWAY W/ COVER 2" W X 3" D WIREWAY W/ COVER                           | PANDUIT                    | F1.5X3LG6 & C1.5LG6                        | PF PF    |              |      |                                     |  |   |             |
|                                       | 3" W X 3" D WIREWAY W/ COVER  | PANDUIT<br>PANDUIT         | F2X3LG6 & C2LG6 F3X3LG6 & C3LG6            | PF       |              |      |                                     |  |   |             |
| $\rightarrow$                         | 8 PORT NETWORK SWITCH   | SIXNET                     | SLX-8MS                                    | PF       |              |      |                                     |  |   |             |
|                                       | 6FT CAT6 PATCH CABLE  | SHOP SUPPLY                | SHOP SUPPLY                                | PF       |              |      |                                     |  |   |             |
|                                       | GROUND BUS  | SHOP SUPPLY                | SHOP SUPPLY                                | PF       |              |      |                                     |  |   |             |
| (39) -                                | _   | =                          | -  | -        |              |      |                                     |  |   |             |
| (40) -                                | -   | -                          | -  | -        |              |      |                                     |  |   |             |
|                                       | LONG RANGE IP/ETHERNET RADIO  | GE MDS                     | TO BE DETERMINED BY CITY STAFF             | PF       |              |      |                                     |  |   |             |
| (42) 4                                | LOUVER WITH FILTER  | HOFFMAN                    | AVK44 / AFLT44                             | PF       |              |      |                                     |  |   |             |
| (43) 1                                | 4-POLE ICE CUBE RELAY / SOCKET  | ALLEN-BRADLEY              | 700-HF34Z24-4 / 700-HN139                  | PF       |              |      |                                     |  |   |             |
| (44) 5                                | 2-POLE ICE CUBE RELAY / SOCKET  | ALLEN-BRADLEY              | 700-HF32Z24-4 / 700-HN116                  | PF       |              |      |                                     |  |   |             |
| NOTE: ALL MA<br>BE REVIEWED<br>DESIGN | ATERIALS SHOWN ARE THE MINIMUM REQUIREMENT<br>AND APPROVED BY THE CITY OF BEND DURING | S AND SHALL<br>PRELIMINARY | PF = PANEL FABRICATO<br>COB = CITY OF BEND | OR       |              |      |                                     |  |   |             |
|                                       |   |                            |  |          |              |      |                                     |  |   |             |
|                                       |   |                            |  |          |              |      |                                     |  |   |             |
|                                       |   |                            |  |          |              |      |                                     |  |   |             |
|                                       |   |                            |  |          |              |      |                                     |  |   |             |
|                                       |   |                            |  |          |              |      |                                     |  |   |             |
|                                       |   |                            |  |          |              |      |                                     |  |   |             |
|                                       |   |                            |  |          |              |      |                                     |  | FOR SAMPLE ONLY   |             |
|                                       |   |                            |  |          |              |      |                                     | REVIS  | RECORD DRAWINGS<br>SIONS DRAWN BY: XX DATE: XX/XX/XX  |             |
|                                       |   |                            |  |          |              |      |                                     | THESE RECORD<br>INFORMATION C<br>DETAIL THE EX | D DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS<br>COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESE<br>ACT LOCATION, TYPE OF COMPONENT NOR MANNER OF | OF<br>NT II |

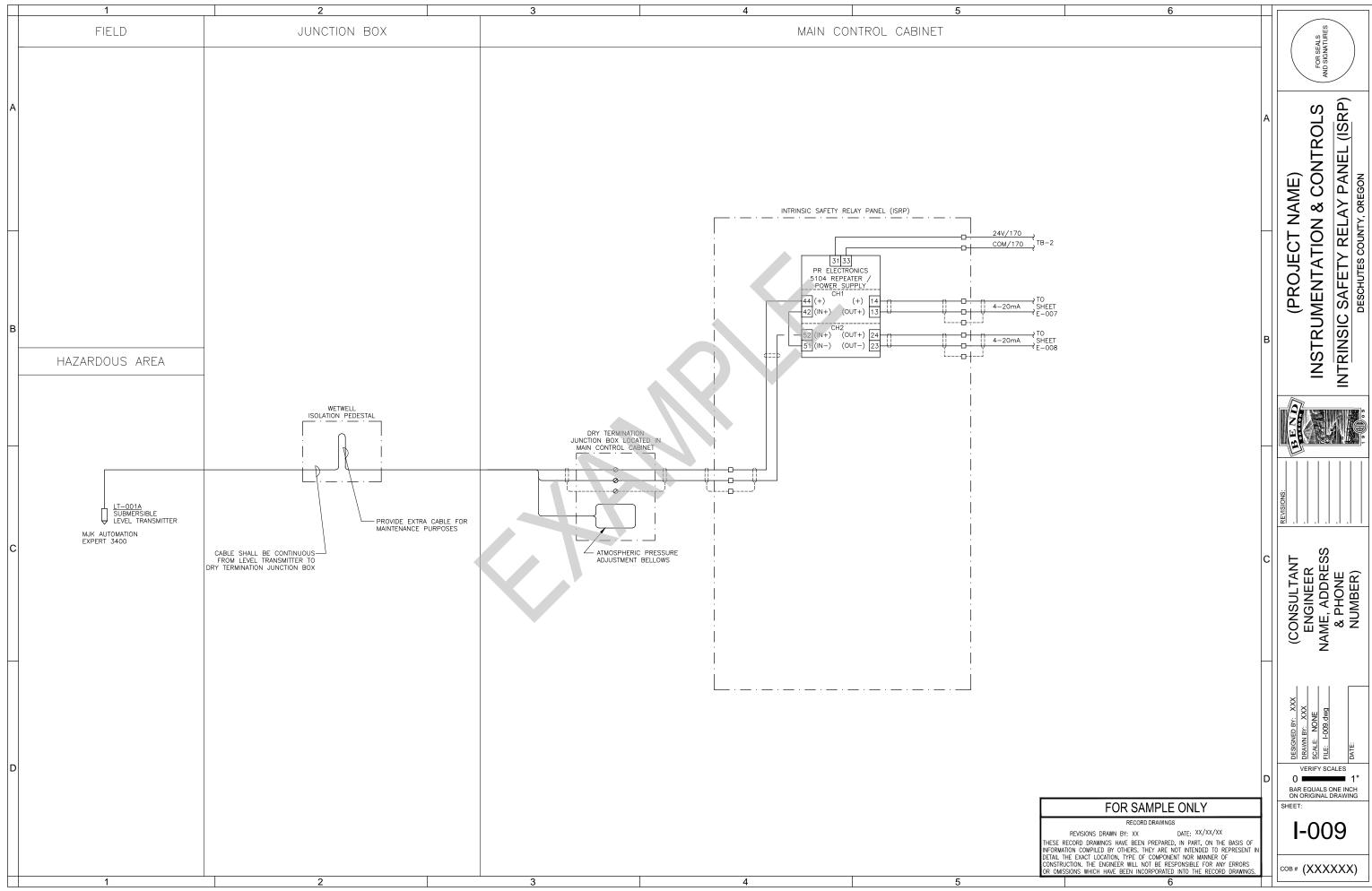


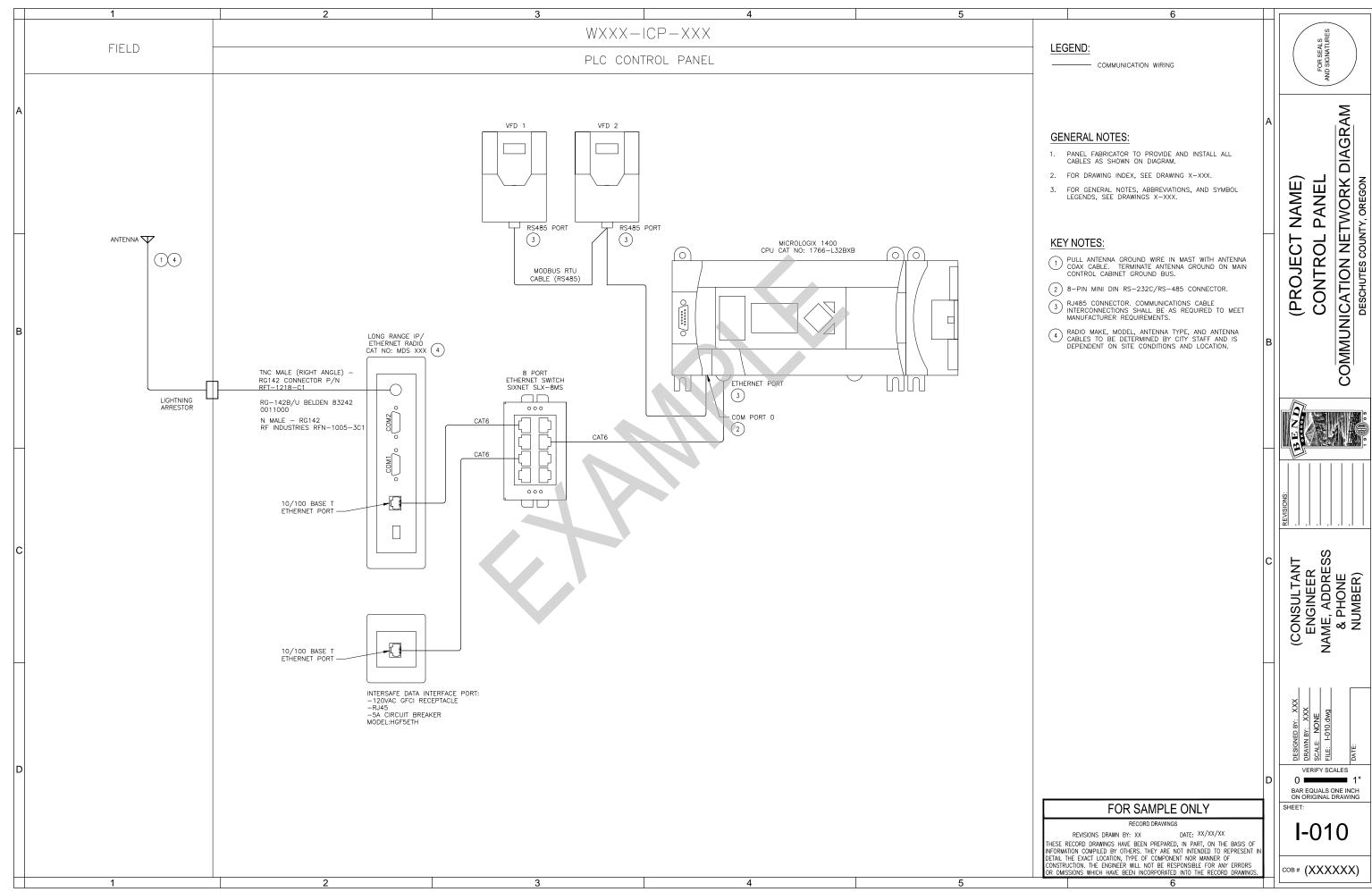


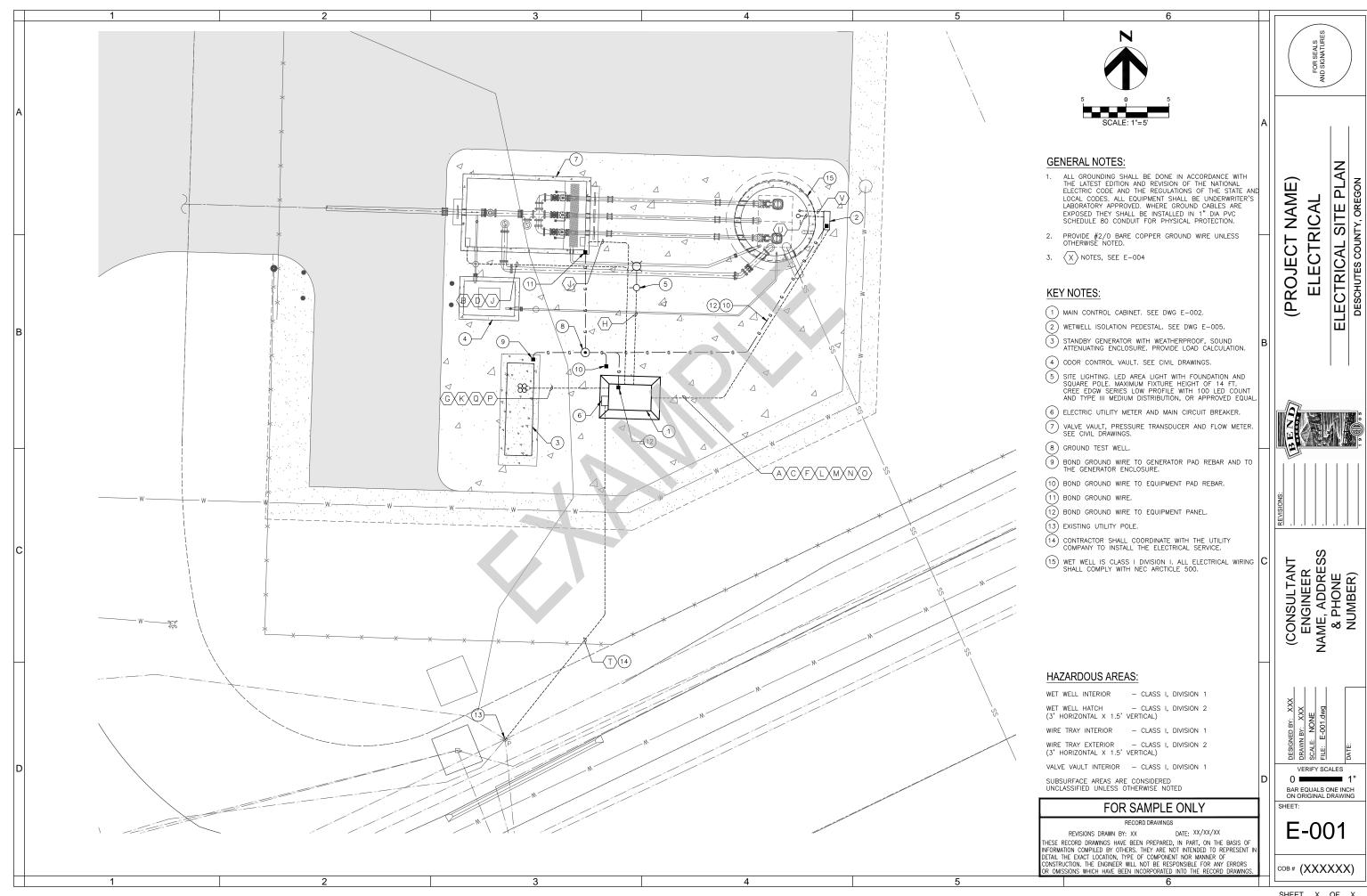


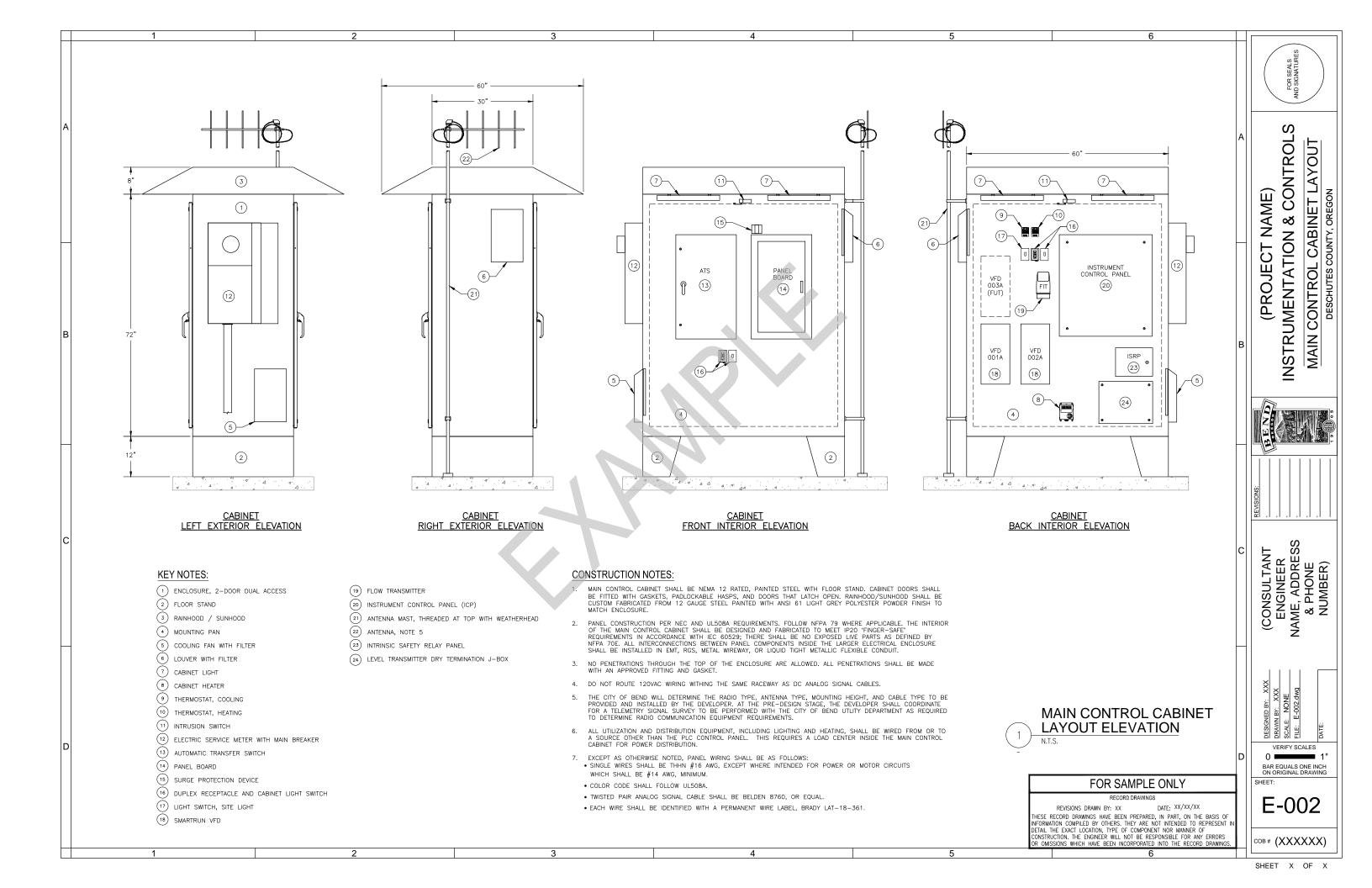


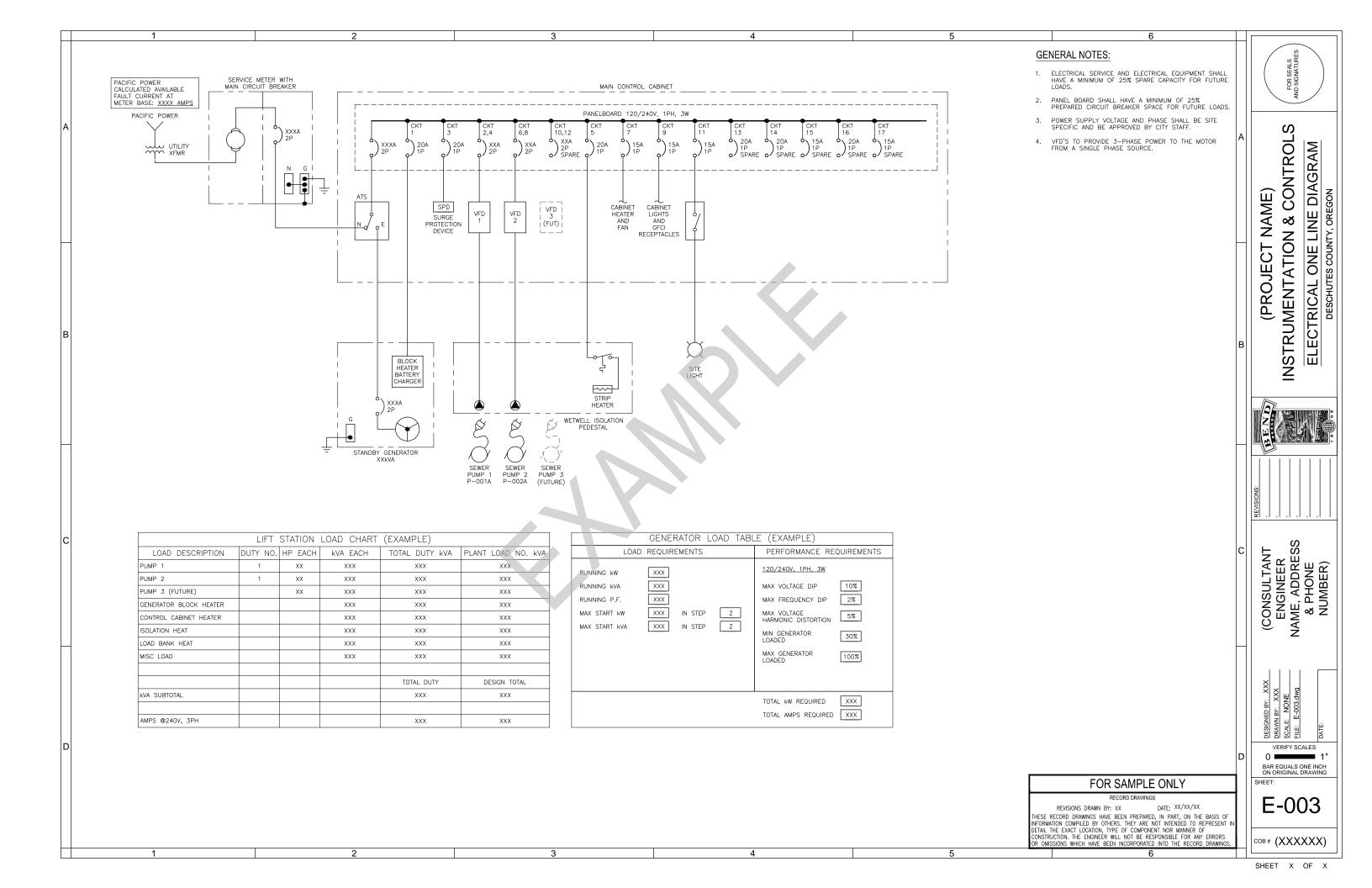












| 1   | 2 |   | 3               |                   |   | 4                        | 5  | 6   |  |
|-----|---|---|-----------------|-------------------|---|--------------------------|--|---|--|
|     |   |   |                 |                   |   |                          |  |   | LS UNRES   |
|     |   |   |                 |                   |   |                          | GENERAL NOTES: (CONDUIT INSTALLATION)  1. ALL STRUT AND MOUNTING HARDWARE MUST BE STAINLESS STEEL. | FOR SEA   |  |
|     |   | CONDUIT AND WIRE SCHEDULE                       |                 |                   |   |                          |  | P P P P P P P P P P P P P P P P P P P   |  |
| A   |   | CONDUIT USE                                     | CONDUIT CONDUIT | SIZE CONDUIT TYPE | CONDUCTOR SIZE AND NUMBER OF CONDUCTORS | CONDUIT FROM             | CONDUIT TO   | 2. MYERS HUB FITTING MUST BE USED ON ALL CONDUIT PENETRATIONS. 3. ALL CONDUIT MUST BE SCHEDULE 80 PVC.  | N O  |
|     |   | FLOAT SWITCH LSHH<br>WETWELL HATCH LIMIT SWITCH | A 1 INC         | H PVC             | 6#14                                    | THE MAIN CONTROL CABINET | THE ISOLATION PEDESTAL   | THE PROPER TOOLS MUST BE USED WHILE CUTTING, THREADING, BENDING, AND TIGHTENING ANY PVC COATED CONDUIT.   | ابتا کے الل  |
|     |   | FLOW SENSOR                                     | B 1 INC         | H PVC             | MANUFACTURER<br>CABLE                   | THE MAIN CONTROL CABINET | THE FLOW METER VAULT   | 5. THE PVE COATING MUST REMAIN INTACT ONLY 1 INCH   | ME) CONTRO   |
|     |   | SUBMERSIBLE<br>LEVEL TRANSMITTER                | ⟨C⟩ 3/4 IN      | ICH PVC           | MANUFACTURER<br>CABLE                   | THE MAIN CONTROL CABINET | THE ISOLATION PEDESTAL   | OF THE COATING MAY BE REMOVED AT THE END OF THE CONDUIT TO ALLOW FOR THE THREAD.  |  |
|     |   | VALVE VAULT<br>HATCH LIMIT SWITCH               | D 1 INC         | H PVC             | 3#14                                    | THE MAIN CONTROL CABINET | THE FLOW METER VAULT   | 6. ANY CONDUIT WITH THE DAMAGED COATING MUST BE REPLACED.   |  |
|     |   | SEAL<br>FAIL / OVER TEMP                        | E 1 INC         | H PVC             | 8#14                                    | THE MAIN CONTROL CABINET | THE ISOLATION PEDESTAL   | 7. THE COATING TOUCH UP PAINT IS ONLY TO BE USED FOR COSMETIC BLEMISHES.  | NAME<br>N & CC<br>RE SCH   |
|     |   | GENERATOR<br>CONTROL SIGNALS (ATS)              | F 1 INC         | H PVC             | 8#14                                    | THE MAIN CONTROL CABINET | THE GENERATOR  | 8. ALL THREADED CONNECTIONS MUST BE COPPER  |  |
|     |   | OUTSIDE AREA LIGHT                              | G 1 INC         | H PVC             | 2#12, 1#12G                             | THE MAIN CONTROL CABINET | THE LIGHT POLE   | COATED AND TIGHTENED APPROPRIATELY.   |  |
|     |   | VALVE VAULT SPARE                               | H 1 INC         | H PVC             | PULL CORD                               | THE MAIN CONTROL CABINET | THE VALVE VAULT  | ALL UNDERGROUND CONDUIT RUNS MUST BE INSPECTED PRIOR TO BACKFILL.   |  |
|     |   | GENERATOR BATTERY CHARGER /<br>BLOCK HEATER     | 1 INC           | H PVC             | 4#10, 2#10G                             | THE MAIN CONTROL CABINET | THE GENERATOR  |   | (PROJECTED (PROJECTED) |
|     |   | ISOLATION PEDESTAL HEATER                       | J 1 INC         | H PVC             | 2#12, 1#12G                             | THE MAIN CONTROL CABINET | THE ISOLATION PEDESTAL   |   | \( \rangle \) \( \rangle \)  \( \rangle \)   |
|     |   | PUMP #1   | K 1 INC         | H PVC             | 3#8, 1#10G                              | THE MAIN CONTROL CABINET | THE ISOLATION PEDESTAL   |   | (PRO)  |
| B   |   | PUMP #2   | (L) 1 INC       | H PVC             | 3#8, 1#10G                              | THE MAIN CONTROL CABINET | THE ISOLATION PEDESTAL   |   |  |
| B   |   | PUMP #3 (FUTURE)                                | M 1 INC         | H PVC             | 3#8, 1#10G                              | THE MAIN CONTROL CABINET | THE ISOLATION PEDESTAL   |   |  |
|     |   | GENERATOR MONITORING SIGNALS (PLC)              | N 1 INC         | H PVC             | 8#14                                    | THE MAIN CONTROL CABINET | THE GENERATOR  |   |  |
|     |   | GENERATOR POWER                                 | (O) 2 INC       | H PVC             | 3#1/0, 1#6G                             | THE MAIN CONTROL CABINET | THE GENERATOR  |   |  |
|     |   | UNDERGROUND SERVICE                             | P 3 INC         | H PVC             | PULL ROPE                               | UNDERGROUND SERVICE      | MAIN CONTROL ENCLOSURE PAD   |   |  |
|     |   | SUBMERSIBLE<br>LEVEL TRANSMITTER                | Q 1 INC         | H PGRC            | MANUFACTURER<br>CABLE                   | THE WET WELL             | THE ISOLATION PEDESTAL   |   |  |
|     |   | FLOAT SWITCH LSHH                               | R 3/4 IN        | ICH PGRC          | MANUFACTURER<br>CABLE                   | THE WET WELL             | THE ISOLATION PEDESTAL   |   | ZÉ   |
|     |   | ANTENNA SUPPORT                                 | W 2 INC         | H PGRC            | MANUFACTURER<br>CABLE                   | THE MAIN CONTROL CABINET | WEATHER HEAD   |   |  |
|     |   |   |                 |                   |   |                          |  |   |  |
|     |   |   |                 |                   |   |                          |  |   |  |
|     |   |   |                 |                   |   |                          |  |   |  |
|     |   |   |                 |                   |   |                          |  |   | OISIA  |
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| c   |   |   |                 |                   |   |                          |  |   |  |
|     |   |   |                 |                   |   |                          |  |   | (CONSULTANT<br>ENGINEER<br>NAME, ADDRESS<br>& PHONE  |
|     |   |   |                 |                   |   |                          |  |   | \frac{1}{2} \text{E} E         |
|     |   |   |                 |                   |   |                          |  |   |  |
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|     |   |   |                 |                   |   |                          |  |   |  |
|     |   |   |                 |                   |   |                          |  |   |  |
|     |   |   |                 |                   |   |                          |  |   | BY: X IONE   |
|     |   |   |                 |                   |   |                          |  |   | NC BY:   |
|     |   |   |                 |                   |   |                          |  |   | DESIGI<br>DRAWI<br>SCALE   |
| 1 1 |   |   |                 |                   |   |                          |  |   | VERIFY SCALES  |
| D   |   |   |                 |                   |   |                          |  |   | D BAR EQUALS ONE IN  |
| D   |   |   |                 |                   |   |                          |  | FOR SAMPLE ONLY   | BAR EQUALS ONE INC<br>ON ORIGINAL DRAWII<br>SHEET:   |
| D   |   |   |                 |                   |   |                          |  |   |  |
| D   |   |   |                 |                   |   |                          |  | RECORD DRAWINGS   |  |
| D   |   |   |                 |                   |   |                          |  | REVISIONS DRAWN BY: XX DATE: XX/XX/XX   | E-004  |
| D   |   |   |                 |                   |   |                          |  | REVISIONS DRAWN BY: XX DATE: XX/XX/XX THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF | E-004  |
|     | 2 |   | 3               |                   |   | 4                        | 5  | REVISIONS DRAWN BY: XX DATE: XX/XX/XX  THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN   | E-004  |

