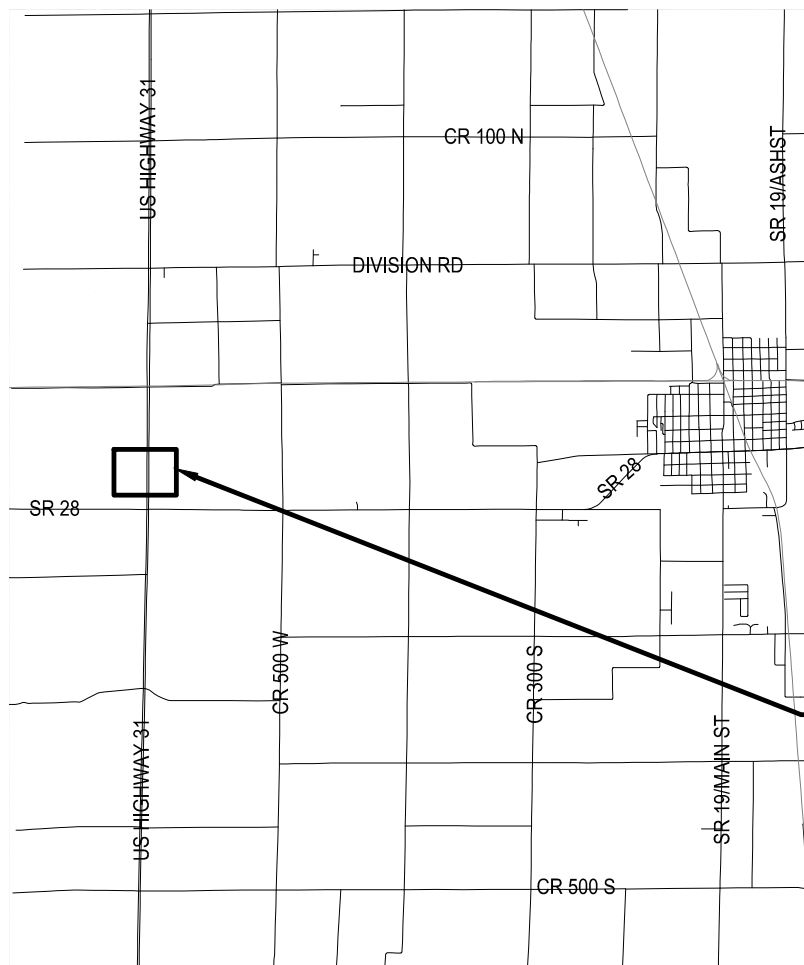
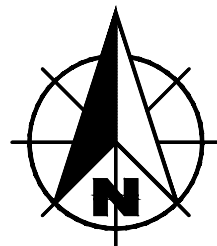


DIVISION A - ELEVATED WATER STORAGE TANK

FOR

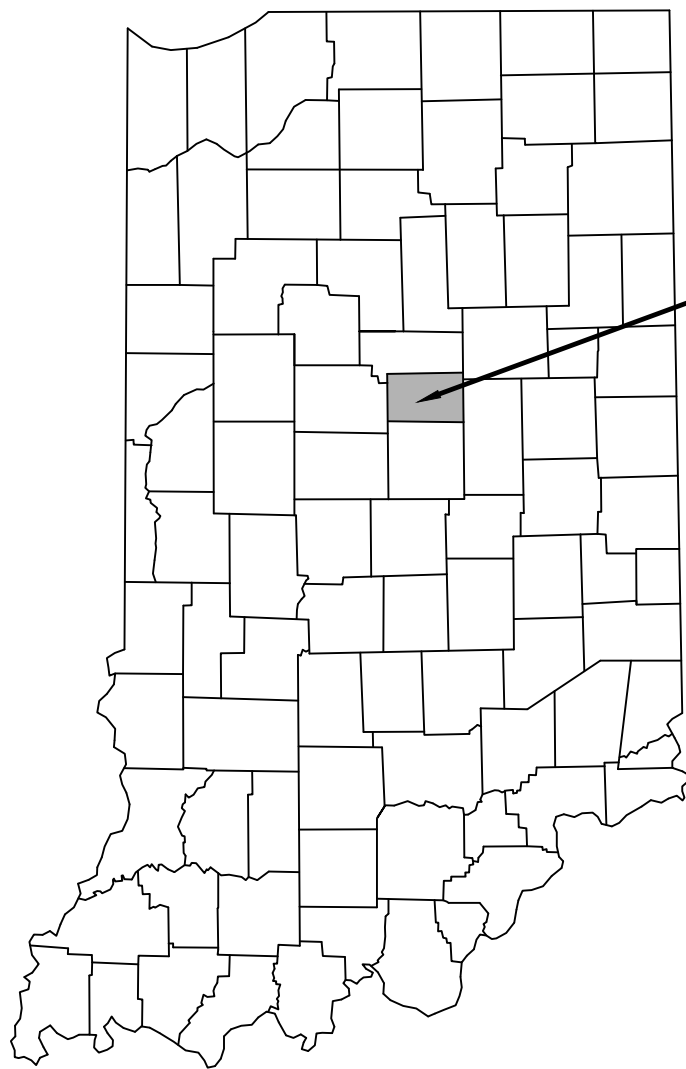
TIPTON MUNICIPAL UTILITIES

TIPTON, INDIANA



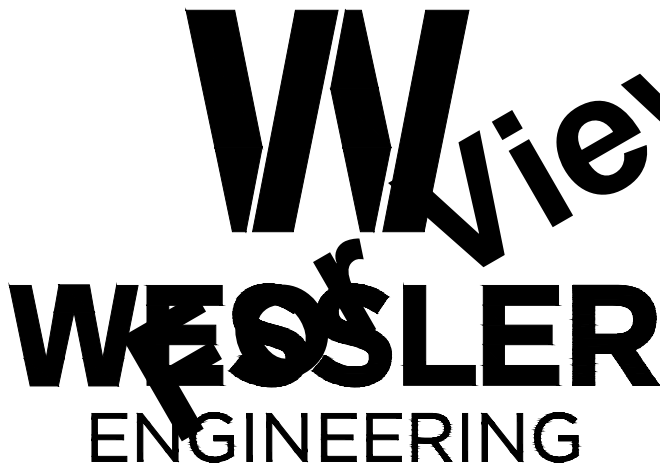
PROJECT
LOCATION

TIPTON COUNTY
VICINITY MAP
SCALE: NONE



TIPTON
COUNTY

STATE LOCATION MAP
SCALE: NONE



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PROJECT NO. 261722-04-001

DRAWINGS PREPARED FOR:
THE HONORABLE THOMAS E. DOLEZAL, MAYOR
TAMERA L. CLARK, CLERK TREASURER

TIPTON UTILITY SERVICE BOARD
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PETER SCHRAM, MEMBER
BARBARA CARDWELL, MEMBER
STEVEN THOMPSON, MEMBER
MARK RAVER, MEMBER
DICK KLEIN, EMERITUS
JIM ANKRUM, UTILITY GENERAL MANAGER

TROY HOOKER, WASTEWATER SUPERINTENDENT
TIM DAVIS, COLLECTIONS SUPERINTENDENT
BRAD COX, ELECTRICAL SUPERINTENDENT
JEFF HEARD, WATER SUPERINTENDENT

JANUARY 2024

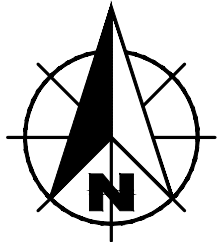
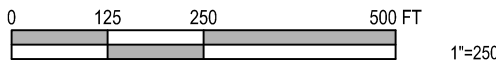
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| | | | |
| | LOYS H. REES REGISTERED ENGINEER STATE OF INDIANA NO. 12000685 | | |
| | WAYNE C. MOORE REGISTERED ENGINEER STATE OF INDIANA NO. 10707476 COVERING ELECTRICAL AND CONTROLS DESIGN | | |



2022 IMAGERY FROM GIS INDIANA STATE MA

LOCATION AND SCOPE OF WORK PLAN



**HORIZONTAL AND VERTICAL
CONTROL INFORMATION**

NOTES:

1. A FIELD SURVEY WAS PERFORMED IN MARCH 2023.
2. COORDINATES (INDIANA STATE PLANE, EAST ZONE, NAD 83) AND ELEVATIONS (NAVD 88) ARE BASED ON INCORS.
3. UNITS ARE U.S. SURVEY FEET.
4. CONTROL POINTS WERE SET USING GPS.
5. A LEVEL LOOP WAS PERFORMED ON THE CONTROL POINTS AND TBMS.

BENCHMARK DESCRIPTION:

6. TBM NO. 108 - CUT X WEST ANCHOR BOLT OF STEEL POWER POLE APPROXIMATELY 30' NORTH OF STATE ROAD 28 AND 34' EAST OF CR 560 WEST.
EL 893.55
7. TBM NO. 109 - CUT X WEST ANCHOR BOLT OF STEEL POWER POLE APPROXIMATELY 1,320' NORTH OF STATE ROAD 28 AND 40' EAST OF CR 560 WEST.
EL 897.70

CONTROL POINTS

| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|------------|-----------|-----------|-------------|
| CP 1 | 1832283.99 | 202224.40 | 894.71 | 5/8" REBAR |
| CP 2 | 1831939.78 | 202217.38 | 892.48 | 5/8" REBAR |
| CP 3 | 1831504.50 | 202136.51 | 893.46 | 5/8" REBAR |
| CP 4 | 1831286.19 | 202386.22 | 892.00 | 5/8" REBAR |
| CP 5 | 1831285.59 | 202931.20 | 891.14 | 5/8" REBAR |
| CP 6 | 1831279.68 | 203287.40 | 891.44 | 5/8" REBAR |

DRAWING INDEX

| SHEET NO. | DESCRIPTION |
|----------------------|--|
| GENERAL | |
| 01 | TITLE SHEET |
| 02 | LOCATION PLAN & DRAWING INDEX |
| 03 | LEGEND, ABBREVIATION, UTILITY CONTACTS AND GENERAL NOTES |
| 04 | ELECTRICAL GENERAL AND GENERAL NOTES |
| SPHEROID TANK | |
| 05 | TANK SITE PLAN |
| 06 | TANK ELEVATION AND DETAILS |
| 07 | TANK ELECTRICAL ELEVATION AND PLANS |
| 08 | TANK ELECTRICAL DIAGRAMS AND SCHEDULES |
| DETAILS AND DIAGRAMS | |
| 09 | MISCELLANEOUS DETAILS |
| 10 - 11 | EROSION CONTROL DETAILS |
| 12 | TANK GROUNDING DIAGRAM |
| 13 | ELECTRICAL DETAILS |

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|--|----------------|-----|-----|------|----------|-----------------------|
| SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING | DRAWN BY | MRE | NO. | DATE | INITIALS | REVISION DESCRIPTIONS |
| | CHECKED BY | ACH | | | | |
| | APPROVED BY | LHR | | | | |
| | ISSUE DATE | | | | | |
| | JANUARY 2024 | | | | | |
| | PROJECT NUMBER | | | | | |
| | 261722-04-001 | | | | | |



DIVISION A - ELEVATED WATER STORAGE TANK
TIPTON MUNICIPAL UTILITIES
TIPTON, INDIANA

LOCATION PLAN & DRAWING INDEX

SHEET NO.

02

TOTAL SHEETS

13

Drawing: X:\Tipton\261722\Tipton West Water & Sewer Improvements\Drawings\Div A - Tower\261722-A-GS.dwg | Layout: 1GS | Plotted: 01/23/24 @ 12:50:12 | LastSavedBy: Michelle

| EXISTING FEATURES LEGEND | | | | | |
|---|--|---|---------------------------------------|---|------------------------------------|
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|  | BENCH MARK |  | CISTERN |  | EASEMENT - CONSTRUCTION/PERMANENT |
|  | TEMPORARY BENCH MARK |  | ELECTRIC METER |  | LOT BOUNDARY |
|  | SOIL BORING LOCATION |  | AIR CONDITIONING UNIT |  | PROPERTY BOUNDARY |
|  | SECTION CORNER |  | UTILITY RISER (DEFINED BY UTILITY) |  | RIGHT-OF-WAY - TEMPORARY/PERMANENT |
|  | DRILL HOLE IN CONCRETE/HARRISON MONUMENT |  | UTILITY PEDESTAL (DEFINED BY UTILITY) |  | SECTION BOUNDARY |
|  | CONTROL POINT (SET/FOUND) |  | UTILITY MARKER (DEFINED BY UTILITY) |  | WETLANDS |
|  | MAGNETIC NAIL (SET/FOUND) |  | JOINT POWER/TELEPHONE POLE |  | CONTOUR - INTERMEDIATE ELEVATION |
|  | BOAT SPIKE (SET/FOUND) |  | LIGHT POLE |  | CONTOUR - INDEX ELEVATION |
|  | PK NAIL (SET/FOUND) |  | LIGHT ON POWER POLE |  | OVERHEAD ELECTRIC |
|  | RAILROAD SPIKE (SET/FOUND) |  | LIGHT ON JOINT POLE |  | OVERHEAD CABLE TV |
|  | R/W MARKER - CONCRETE/GRANITE/STONE |  | POWER POLE |  | OVERHEAD TELEPHONE |
|  | IRON PIPE/IRON PIN/REBAR (WITH DIAMETER) |  | TELEPHONE POLE |  | UNDERGROUND CABLE TV |
|  | BRASS PLUG |  | LAMP POST |  | UNDERGROUND ELECTRIC |
|  | CABLE TV MANHOLE |  | GUY ANCHOR |  | UNDERGROUND FIBER OPTIC |
|  | ELECTRIC MANHOLE |  | GUY POLE OR STUB |  | GAS MAIN |
|  | GAS MANHOLE |  | CONTROLLER CABINET |  | DIGESTER GAS |
|  | OTHER MANHOLE |  | FLAG POLE |  | PETROLEUM MAIN |
|  | TELEPHONE MANHOLE |  | POST |  | UNDERGROUND TELEPHONE |
|  | TELEPHONE VAULT |  | GROUND LIGHT |  | WATER MAIN |
|  | TRAFFIC MANHOLE |  | MAILBOX |  | WATER SERVICE |
|  | TRAFFIC HANDHOLE |  | DOUBLE/MULTIPLE MAILBOX |  | FORCEMAIN |
|  | WATER MANHOLE |  | MAST ARM POLE |  | GRAVITY SEWER PIPE |
|  | AIR RELEASE VALVE |  | TRAFFIC SIGNAL STRAIN POLE |  | PLANT CHLORINE PIPE |
|  | SANITARY SEWER MANHOLE |  | SIGNAL LOOP DETECTOR BOX |  | TOP OF BANK/TOE OF SLOPE |
|  | DRAINAGE/STORM SEWER MANHOLE |  | SIGNAL LOOP DETECTOR LOOP |  | CENTERLINE OF DITCH/SWALE/STREAM |
|  | SANITARY SEWER CLEANOUT |  | SIGN - SINGLE POST |  | FENCE - FIELD |
|  | SEPTIC TANK |  | SIGN - DOUBLE POST |  | FENCE - METAL |
|  | VALVE VAULT |  | SIGN - RAILROAD SIGNAL |  | FENCE - WOOD |
|  | BEEHIVE INLET |  | SIGN - RAILROAD CROSSING |  | GUARDRAIL |
|  | CURB INLET |  | BUSH |  | STREAM |
|  | DROP INLET |  | STUMP |  | TREE/BRUSH LINE |
|  | CATCH BASIN |  | TREE - CONIFEROUS | | |
|  | DOWNSPOUT |  | TREE - DECIDUOUS | | |
|  | GAS METER |  | ROCK OUTCROP | | |
|  | GAS VALVE |  | SATELLITE | | |
|  | GAS SERVICE VALVE |  | SPRINKLER CONTROL VALVE | | |
|  | PETROLEUM VALVE |  | WATER METER | | |
|  | PETROLEUM SHUT OFF VALVE |  | WATER VALVE | | |
|  | GAS STATION MONITORING WELL |  | WATER SERVICE VALVE | | |
|  | GAS STATION FILL CAP |  | WATER WELL | | |
|  | NATURAL GAS WELL/STORAGE WELL |  | WET WELL | | |
|  | SPRINKLER HEAD |  | FUGITIVE GAS HYDRANT | | |
|  | YARD HYDRANT |  | PROCESS VALVE | | |

*NOTE: THIS TABLE IS A LISTING OF TYPICAL ABBREVIATIONS AND SYMBOLS AND MAY NOT INCLUDE ALL EXISTING SYMBOLS FOUND WITHIN THIS PLAN SET. IF A QUESTION ARISES ON THE MEANING OF ANY SYMBOL NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION. THE SYMBOLS ARE NOT TO SCALE.

| TABLE OF ABBREVIATIONS | | | |
|------------------------|---------------------------------------|--------------|---------------------------------|
| ABBREVIATION | DESCRIPTION | ABBREVIATION | DESCRIPTION |
| AFF | ABOVE FINISHED FLOOR | IPS | IRON PIPE SIZE |
| ALUM | ALUMINUM | ISPC | INDIANA STATE PLANE COORDINATE |
| APP | APPARENT | LB | POUND(S) |
| APPROX | APPROXIMATE(LY) | LF | LINEAR FEET |
| ASPH | ASPHALT | LN | LANE |
| ASSOC | ASSOCIATES | LS | LIFT STATION |
| ASTM | AMERICAN SOCIETY OF TESTING MATERIALS | MA EX | MATCH EXISTING |
| AVE | AVENUE | MJ | MECHANICAL JOINT |
| AVG | AVERAGE | MATL | MATERIAL |
| BLDG | BUILDING | MAX | MAXIMUM |
| BLVD | BOULEVARD | MH | MANHOLE |
| BM | BENCHMARK | MIN | MINIMUM |
| CO | CLEANOUT | MISC | MISCELLANEOUS |
| CI | CAST IRON | MNFR | MANUFACTURER |
| CL | CENTER LINE | N | NORTHING, NORTH |
| CMA | COLD MIX ASPHALT | NGS | NATIONAL GEODETIC SURVEY |
| CMP | CORRUGATED METAL PIPE | NO. | NUMBER |
| CMU | CONCRETE MASONRY UNIT | OC | ON CENTER |
| CONC | CONCRETE | OD | OUTSIDE DIAMETER |
| CONT | CONTINUOUS | PC | POINT OF CURVE (BEGIN CURVE) |
| CNR | CORNER | POLY | POLYETHYLENE |
| CP | CONTROL POINT | PI | POINT OF INTERSECTION |
| CPP | CORRUGATED PLASTIC PIPE | POT | POINT ON TANGENT |
| CR STN | CRUSHED STONE | PT | POINT OF TANGENT (END OF CURVE) |
| CYD | CUBIC YARD | PSI | POUNDS PER SQUARE INCH |
| D | DEPTH | PT | POINT |
| DI | DUCTILE IRON | PVC | POLYVINYL CHLORIDE |
| DI MJ | DUCTILE IRON MECHANICAL JOINT | R | RAILROAD |
| DBL | DOUBLE | ROW | RIGHT-OF-WAY |
| DIA | DIAMETER | RCP | REINFORCED CONCRETE PIPE |
| DIP | DUCTILE IRON PIPE | RD | ROAD |
| DIPS | DUCTILE IRON PIPE SIZE | S | SOUTH |
| DR | DRIVE | SR | STATE ROUTE |
| E | EASTING, EAST | SST | STAINLESS STEEL |
| EF | EACH FACE | SVA | SERVICE VALVE ASSEMBLY |
| EW | EACH WAY | SB | SOIL BORING |
| EA | EACH | SCHED | SCHEDULE |
| EJ | EAST JUNCTION IRON WORKS | SDR | STANDARD DIMENSION RATIO |
| EL | ELEVATION | SECT | SECTION |
| EX | EXISTING | SF | SQUARE FEET |
| EXP | EXPANSION | SHT | SHEET |
| FF | FINISH FLOOR ELEVATION | SPECS | SPECIFICATION(S) |
| FM | FORCE MAIN | SQ | SQUARE |
| FND | FOUND | SRF | STATE REVOLVING FUND |
| FT | FEET | ST | STREET |
| FTG | FOOTING | STA | STATION |
| GALV | GALVANIZED | SYD | SQUARE YARD |
| GPS | GLOBAL POSITIONING SYSTEM | TBM | TEMPORARY BENCHMARK |
| HMA | HOT MIX ASPHALT | TC | TOP OF CASTING |
| HDPE | HIGH DENSITY POLYETHYLENE | TYP | TYPICAL |
| HORIZ | HORIZONTAL | UNO | UNLESS NOTED OTHERWISE |
| ID | INSIDE DIAMETER | USGS | US GEOLOGICAL SURVEY |
| IE | INVERT ELEVATION | VERT | VERTICAL |
| INC | INCORPORATED | VLV | VALVE |
| INDOT | INDIANA DEPARTMENT OF TRANSPORTATION | W | WIDTH, WEST |
| INSTR | INSTRUMENT | WSE | WATER SURFACE ELEVATION |
| INV | INVERT | YR | YEAR |

*NOTE: THIS TABLE IS A LISTING OF TYPICAL ABBREVIATIONS AND MAY NOT INCLUDE ALL ABBREVIATIONS FOUND WITHIN THIS PLAN SET. IF A QUESTION ARISES ON THE MEANING OF AN ABBREVIATION NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION.

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(WATER, SEWER, & ELECTRIC)**

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317-695-6824
ATTN: JEFF HEARD, WATER SUPERINTENDENT
765-675-7736
ATTN: TROY HOOKER, WASTEWATER SUPERINTENDENT
765-675-2234
ATTN: TIM DAVIS, COLLECTIONS SYSTEM SUPERINTENDENT
765-210-7755
ATTN: BRAD COX, ELECTRIC SUPERINTENDENT
317-376-2689

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SMITHVILLE TELEPHONE COMMUNICATION, INC.
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812-935-2262
AT&T DISTRIBUTION
ATTN: DAVID SMITH
765-760-4786
COMCAST CABLE INDIANAPOLIS
ATTN: WILLIAM MORRIS
317-710-0602

GAS
CENTERPOINT ENERGY
ATTN: TOM OCHOA
765-702-7386

ELECTRIC
DUKE ENERGY
ATTN: BRAD AMBURGEY,
ENGINEERING TECHNOLOGIST II
317-776-5335

DIVISION A - ELEVATED WATER STORAGE TANK

TIPTON MUNICIPAL UTILITIES
TIPTON, INDIANA

LEGEND, ABBREVIATIONS, UTILITY CONTACTS AND GENERAL NOTES

SHEET NO.

03

TOTAL SHEETS

13



SPEED SWITCH



COIL
M DENOTES MOTOR STARTER
CR DENOTES CONTROL RELAY
TR DENOTES TIME DELAY RELAY
LC DENOTES LIGHTING CONTACTOR
PR DENOTES INTERPOSING PILOT RELAY
XXX DENOTES REFERENCE LINE NUMBER

 ETHERNET JACK

| | |
|---------|------------------------|
| — UGC — | UNDERGROUND CONTROL |
| — UGE — | UNDERGROUND ELECTRICAL |
| — UGF — | UNDERGROUND FIBER |

 ETHERNET JACK

| | | | |
|--------|------------------------------------|------|------------------------------------|
| A | AMPERE(S) | MAN | MANUFACTURER SUPPLIED (EX. MAN-CP) |
| ACU | AIR CONDITIONING UNIT | MAU | MAKEUP AIR UNIT |
| AE | ANALYTICAL SENSOR | MCC | MOTOR CONTROL CENTER |
| AF | AMP FRAME | MH | MANHOLE |
| AFF | ABOVE FINISHED FLOOR | MOL | MOTOR OPERATED LOUVER |
| AHU | AIR HANDLING UNIT | MPU | MINI POWER UNIT |
| AIT | ANALYTICAL INDICATOR TRANSMITTER | MV | MEDIUM VOLTAGE |
| AM | AMMETER | N | NEUTRAL |
| AMP | AMPERE(S) | N/A | NOT APPLICABLE |
| AT | AMP TRIP | N/C | NORMALLY CLOSED |
| ATL | ACROSS THE LINE (STARTER) | NES | NATIONAL ELECTRICAL CODE |
| ATS | AUTOMATIC TRANSFER SWITCH | NET | NETWORK (PANEL) |
| AUX | AUXILIARY | NF | NON-FUSED |
| AWG | AMERICAN WIRE GAGE | NFSS | NON-FUSED SAFETY SWITCH |
| BKR | BREAKER | N.O. | NORMALLY OPEN |
| BLDG | BUILDING | NTS | NOT TO SCALE |
| C | CONDUITS | OL | OVERLOAD |
| CB | CIRCUIT BREAKER | PB | PUSHBUTTON |
| CKT | CIRCUIT | PLC | PROGRAMMABLE LOGIC CONTROLLER |
| CP | CONTROL PANEL | PM | POWER METER/MONITOR |
| CR | CORROSION RESISTANT | PNL | PANEL |
| CU | COPPER | PP | POWER PANEL |
| DF | DUCT FAN | RCPT | RECEPTACLE |
| DH | DUCT HEATER | RGS | RIGID GALVANIZED STEEL |
| DISC | DISCONNECT | RIO | REMOTE INPUT/OUTPUT |
| EF | EXHAUST FAN | R/S | RING SWITCH |
| ELEV | ELEVATION | RVSS | REDUCED VOLTAGE SOFT STARTER |
| EMH | ELECTRICAL MANHOLE | RVAT | REDUCED VOLTAGE AUTOTRANSFORMER |
| EMT | ELECTRICAL METALLIC TUBING | SF | SUPPLY FAN |
| EQUIP | EQUIPMENT | SHLD | SHIELDED |
| EWC | ELECTRICAL WATER COOLER | SOL | SOLENOID |
| EXP | EXPLOSION PROOF | SP | SINGLE POLE |
| F | FUSED OR FUSE | SPD | SURGE PROTECTIVE DEVICE |
| FE | FLOW SENSOR | SST | STAINLESS STEEL |
| FIT | FLOW INDICATOR TRANSMITTER | STR | STARTER |
| FLA | FULL LOAD AMPS | SW | SWITCH |
| FOPP | FIBER OPTIC PATCH PANEL | SWBD | SWITCHBOARD |
| FV(N)R | FULL VOLTAGE (NON) REVERSING | SWGR | SWITCHGEAR |
| G | GROUND | TB | TERMINAL BOX |
| GEN | GENERATOR | TPS | TWISTED PAIR SHIELDED |
| GF | GROUND FAULT | TYP | TYPICAL |
| GF(C)I | GROUND FAULT (CIRCUIT) INTERRUPTER | UGE | UNDERGROUND ELECTRICAL |
| HH | HANDHOLE | UGT | UNDERGROUND TELEPHONE |
| HOA | HAND-OFF-AUTOMATIC | UGCC | UNDERGROUND CONTROLS CABLE |
| HOR | HAND-OFF-REMOTE | UGF | UNDERGROUND FIBER |
| HP | HORSEPOWER | UH | UNIT HEATER |
| HPS | HIGH PRESSURE SODIUM | UL | UNDERWRITERS LABORATORIES |
| JB | JUNCTION BOX | UNO | UNLESS NOTED OTHERWISE |
| KV | KILOVOLTS | V | VOLTS |
| KVA | KILOVOLTS AMPS | VFD | VARIABLE FREQUENCY DRIVE |
| KVAR | KILOVAR | VM | VOLTMETER |
| KW | KILOWATTS | VS | VOLTMETER SWITCH |
| LCP | LOCAL CONTROL PANEL | W | WIRE/WATT |
| LCS | LOCAL CONTROL STATION | WH | WATER HEATER |
| LE | LEVEL SENSOR | WP | WEATHERPROOF |
| LIT | LEVEL INDICATING TRANSMITTER | XFMR | TRANSFORMER |
| LOR | LOCAL-OFF-REMOTE | | |
| LP | LIGHTING PANEL | | |
| LTG | LIGHTING | | |
| LV | LOW VOLTAGE | | |

- 1 PROVIDE SPARES AND SPARE EQUIPMENT AS OUTLINED IN SPECIFICATIONS.
- 2 CONTRACTOR RESPONSIBLE FOR WIRING SUCH THAT THE FUNCTIONALITY SHOWN IN THE PROJECTS DOCUMENTS IS INTEGRATED AS WELL AS ANY
ADDITIONAL CONDUIT, WIRE, EQUIPMENT AND SUPPORTING EQUIPMENT NECESSARY TO MAKE THE DEVICE OPERATE AS DEPICTED AND IN
ACCORDANCE WITH THE NEC.
- 3 ALL CONTROL PANELS AND LOCAL STATIONS NOT EXPLICITLY INDICATED TO HAVE A DISCONNECT SWITCH MOUNTED ADJACENT TO THE PANEL
SHALL HAVE A MAIN CIRCUIT BREAKER WITH THRU PANEL OPERATOR WHICH SHALL BE LOCKABLE AND INTERLOCKED WITH THE PANEL DOOR AS
NEEDED TO MEET THE REQUIREMENTS OF THE NEC.
- 4 CONTRACTOR RESPONSIBLE FOR ALL CONDUIT AND WIRE BETWEEN MECHANICAL EQUIPMENT (INCLUDING BUT NOT LIMITED TO UNIT HEATERS,
EXHAUST FANS AND AIR CONDITIONING UNITS) AND CONTROLLERS (INCLUDING BUT NOT LIMITED TO MOTOR STARTERS, THERMOSTATS AND MOTOR
OPERATED LOUVERS). FOR BID PURPOSES THIS IS TO BE 1" C, #14, #14G BETWEEN EACH PIECE OF EQUIPMENT AND CONTROLLER.
- 5 MANUFACTURER EQUIPMENT SHOWN FOR BIDDING PURPOSES ONLY. FINAL WIRING LIST TO BE PROVIDED BY EQUIPMENT SUPPLIER IN SHOP
DRAWING SUBMITTAL. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL WIRING AND CONDUIT BETWEEN THE MANUFACTURER'S CONTROL PANELS
AND THE EQUIPMENT PROVIDED BY THE MANUFACTURER.

 ETHERNET JACK

| | | | | | | |
|--|----------------|-----|-----|------|----------|-----------------------|
| SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING <div style="background-color: black; width: 100px; height: 15px; margin: 5px 0;"></div> | DRAWN BY | MLW | NO. | DATE | INITIALS | REVISION DESCRIPTIONS |
| | CHECKED BY | MLW | | | | |
| | APPROVED BY | WCM | | | | |
| | ISSUE DATE | | | | | |
| | JANUARY 2024 | | | | | |
| | PROJECT NUMBER | | | | | |
| | 261722-04-001 | | | | | |
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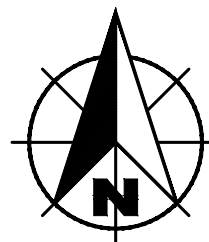
ELECTRICAL LEGEND AND GENERAL NOTES

SHEET NO

04

TOTAL SHEETS

13



0 10 20 40 FT
1" = 20'


GENERAL NOTES

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN OR AS DETERMINED NECESSARY BY CONTRACTOR TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA.

KEYED NOTES

1. EXISTING CONDUIT STUBBED AND MARKED 3' SOUTH WEST OF UGE AND FORCE MAIN CROSSING. CONTINUE CONDUIT TO TANK SITE AND INSTALL WIRE TO POWER EQUIPMENT AS DETAILED ON SHEETS 07 AND 08.
 2. INSTALL CONTROLS HANDHOLE. CONTINUE CONDUIT TO ANTENNA POLE AND INSTALL FACING NORTH WEST PER DETAIL ON SHEET 08.
- X POTENTIAL UTILITY CONFLICT.
F_s SILT FENCE



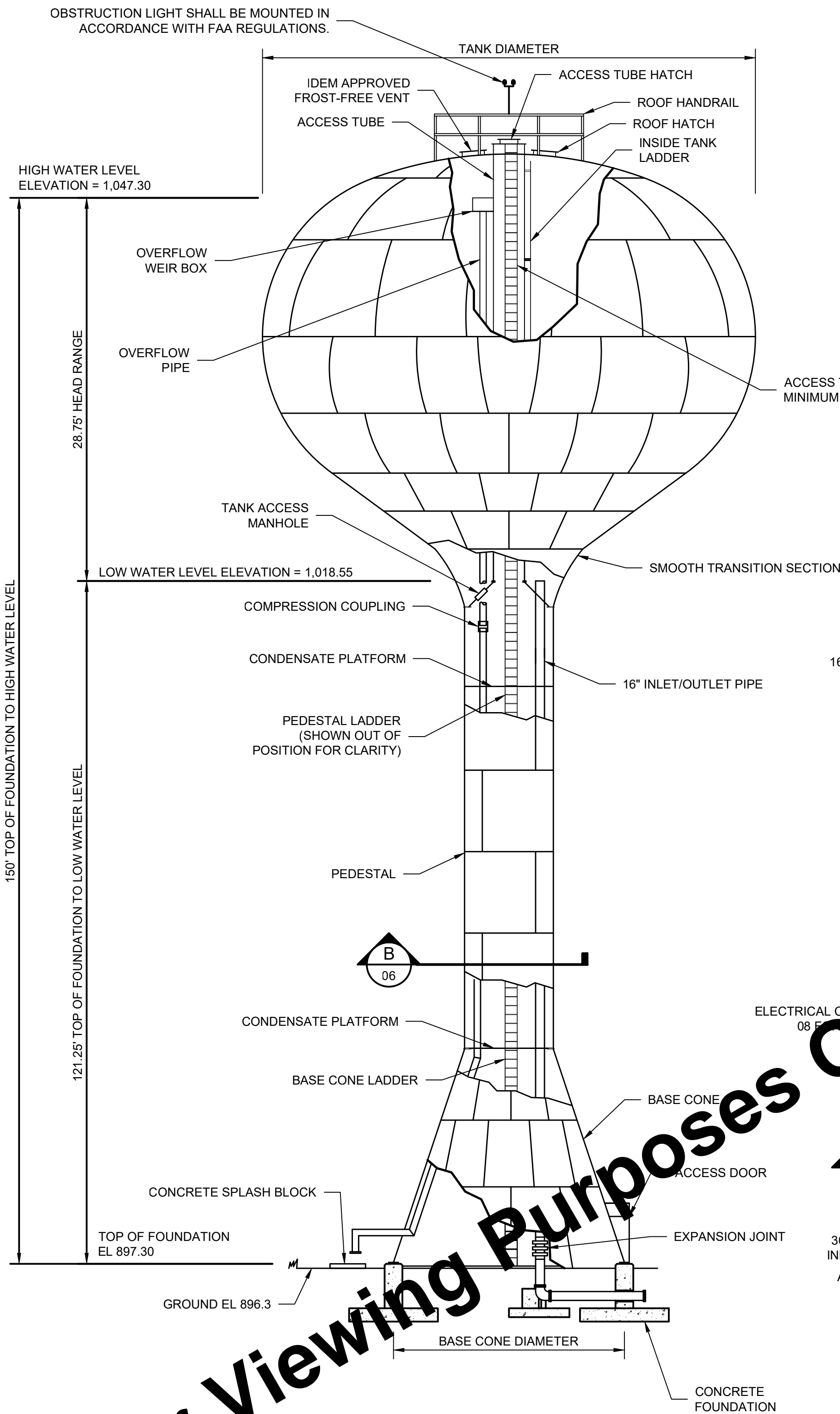
| SCALE VERIFICATION | DRAWN BY | MRE | NO. | DATE | INITIALS | REVISION DESCRIPTIONS |
|---|----------------|-----|-----|------|----------|-----------------------|
| BAR IS ONE INCH LONG ON ORIGINAL DRAWING  | CHECKED BY | ACH | | | | |
| | APPROVED BY | LHR | | | | |
| | ISSUE DATE | | | | | |
| | JANUARY 2024 | | | | | |
| | PROJECT NUMBER | | | | | |
| | 261722-04-001 | | | | | |



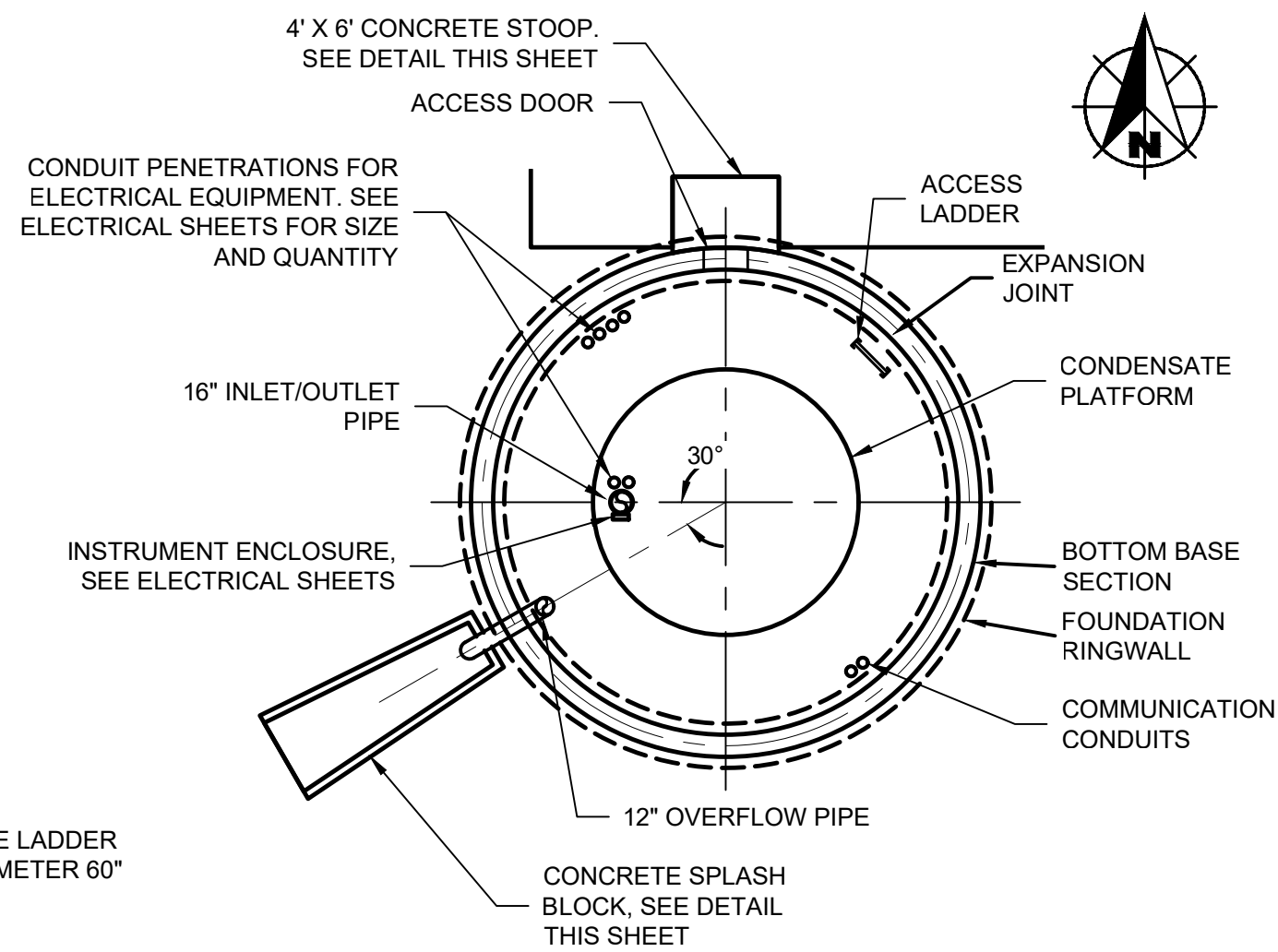
| DIVISION A - ELEVATED WATER STORAGE TANK |
|---|
| TIPTON MUNICIPAL UTILITIES TIPTON, INDIANA |
| TANK SITE PLAN |

| |
|--------------|
| SHEET NO. |
| 05 |
| TOTAL SHEETS |
| 13 |

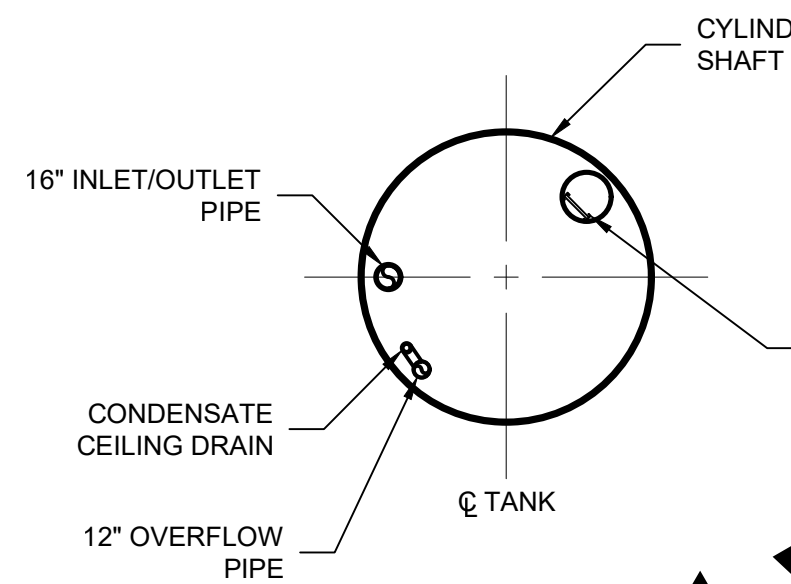
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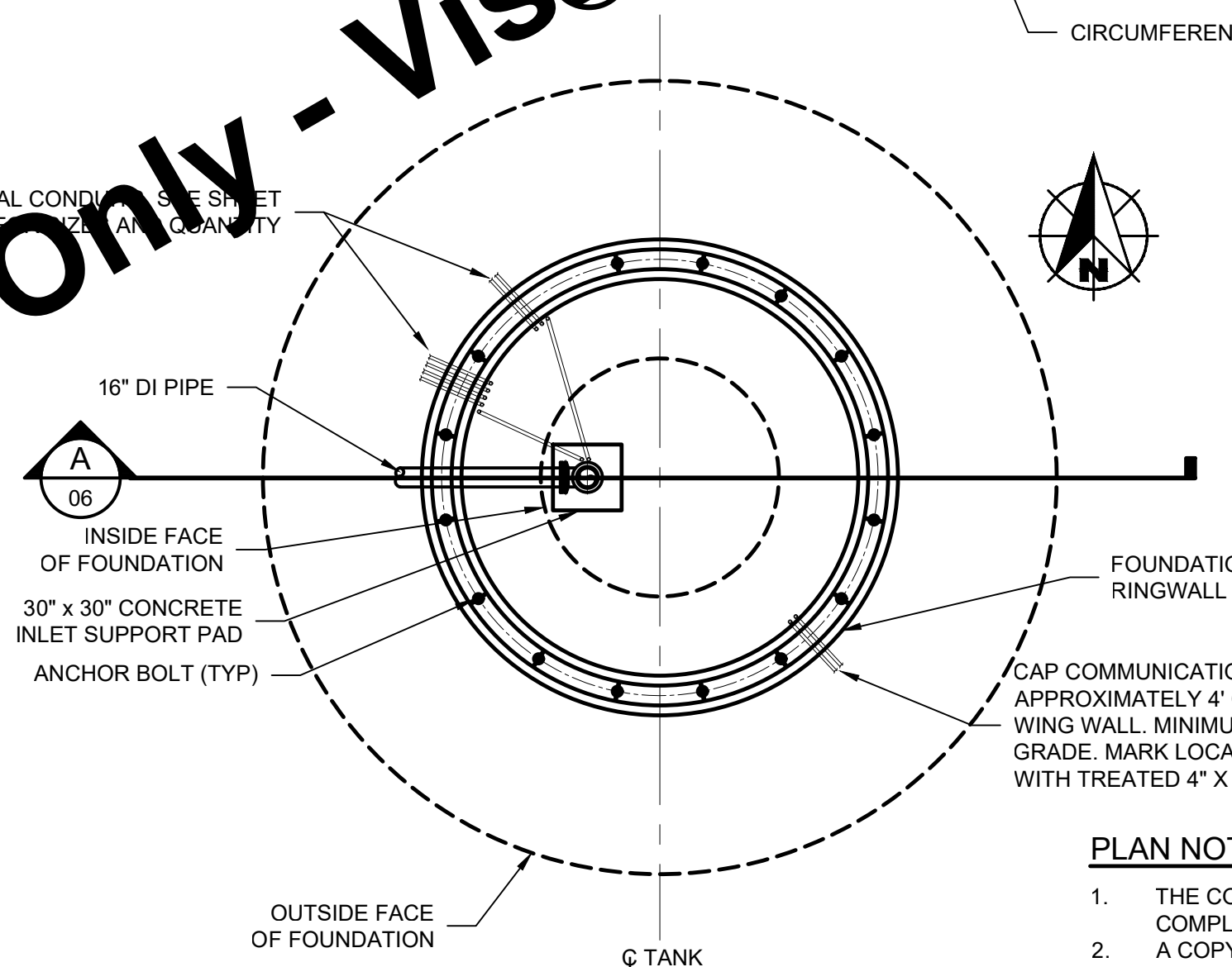
**200,000 GALLON SPHEROID ELEVATED
WATER STORAGE TANK ELEVATION**
SCALE: NONE



TANK FLOOR PLAN
SCALE: NONE



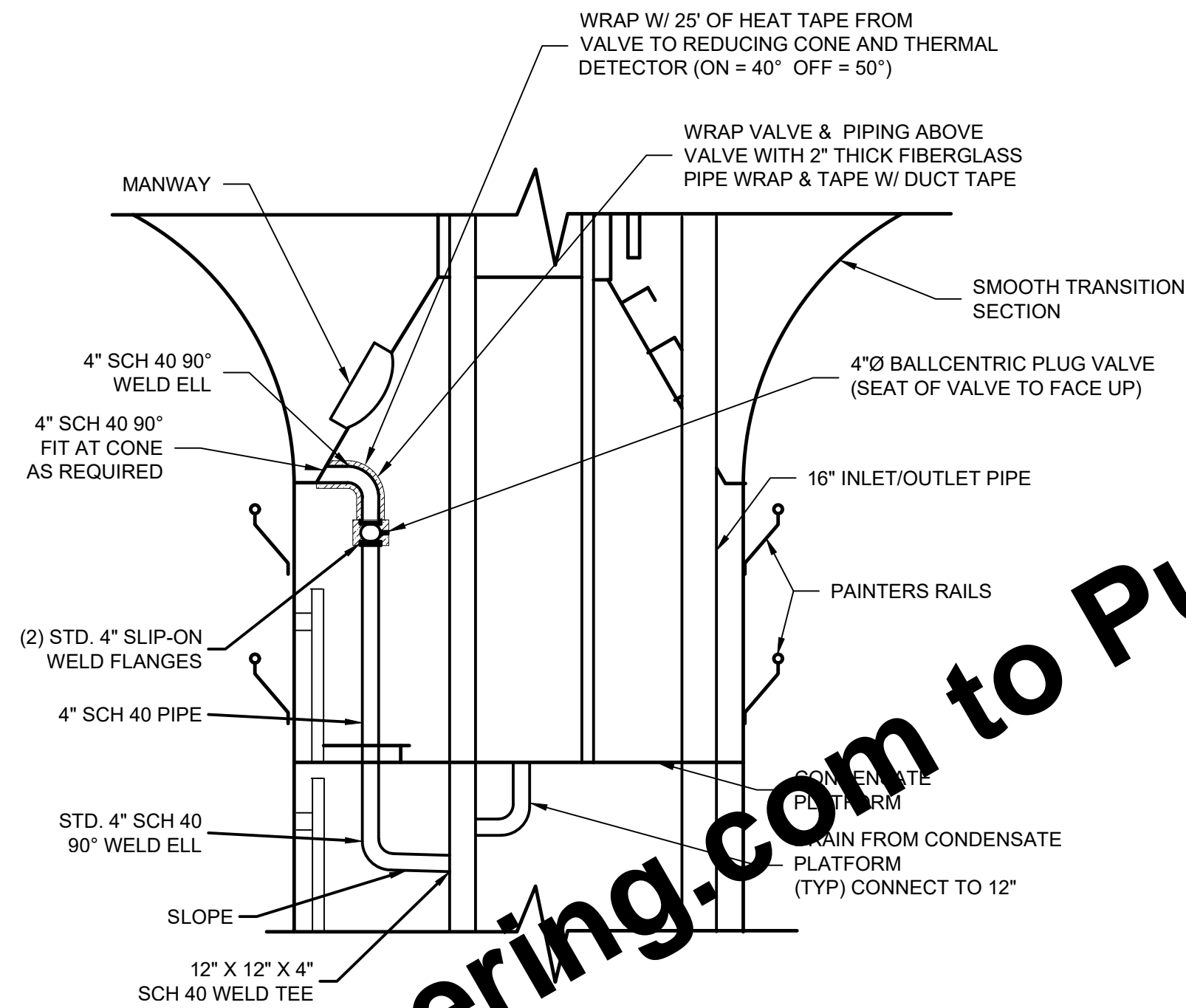
SECTION
SCALE: NONE



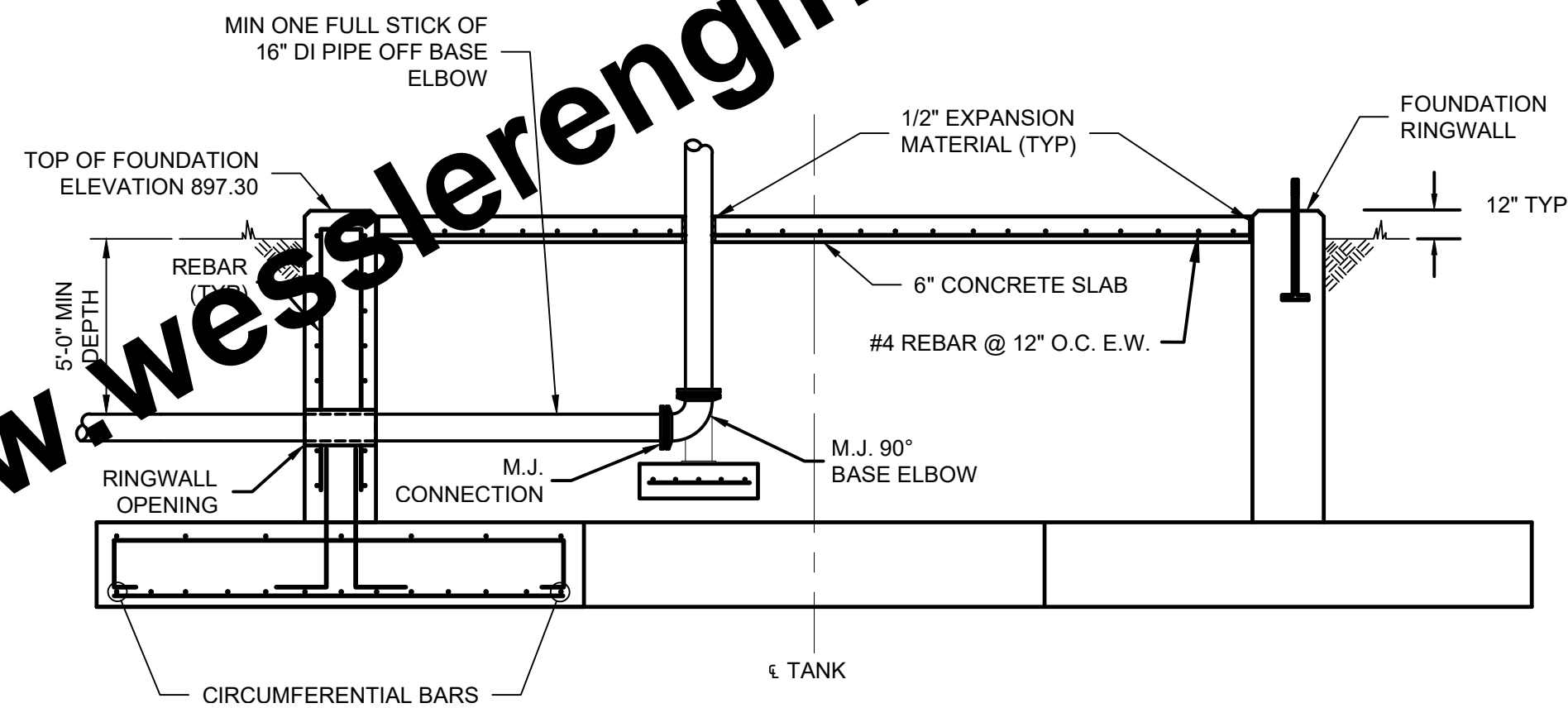
TANK FOUNDATION PLAN
SCALE: NONE

PLAN NOTES:

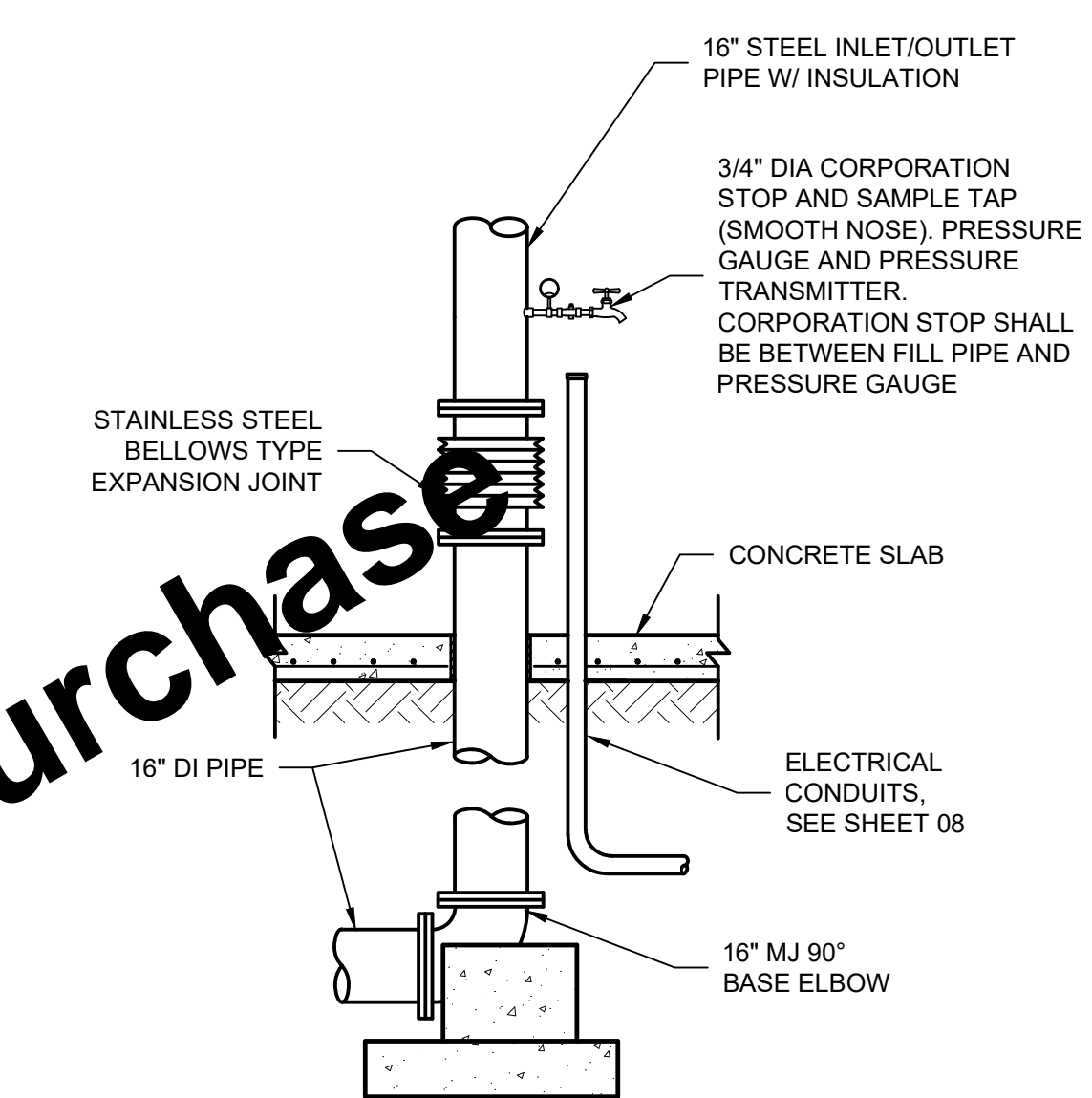
1. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESIGN OF THE TANK AND FOUNDATION.
2. A COPY OF THE GEOTECHNICAL EVALUATION IS INCLUDED IN THE PROJECT MANUAL.
3. FINISH GRADE AROUND PERIMETER OF TANK TO BE 896.30 TYP.



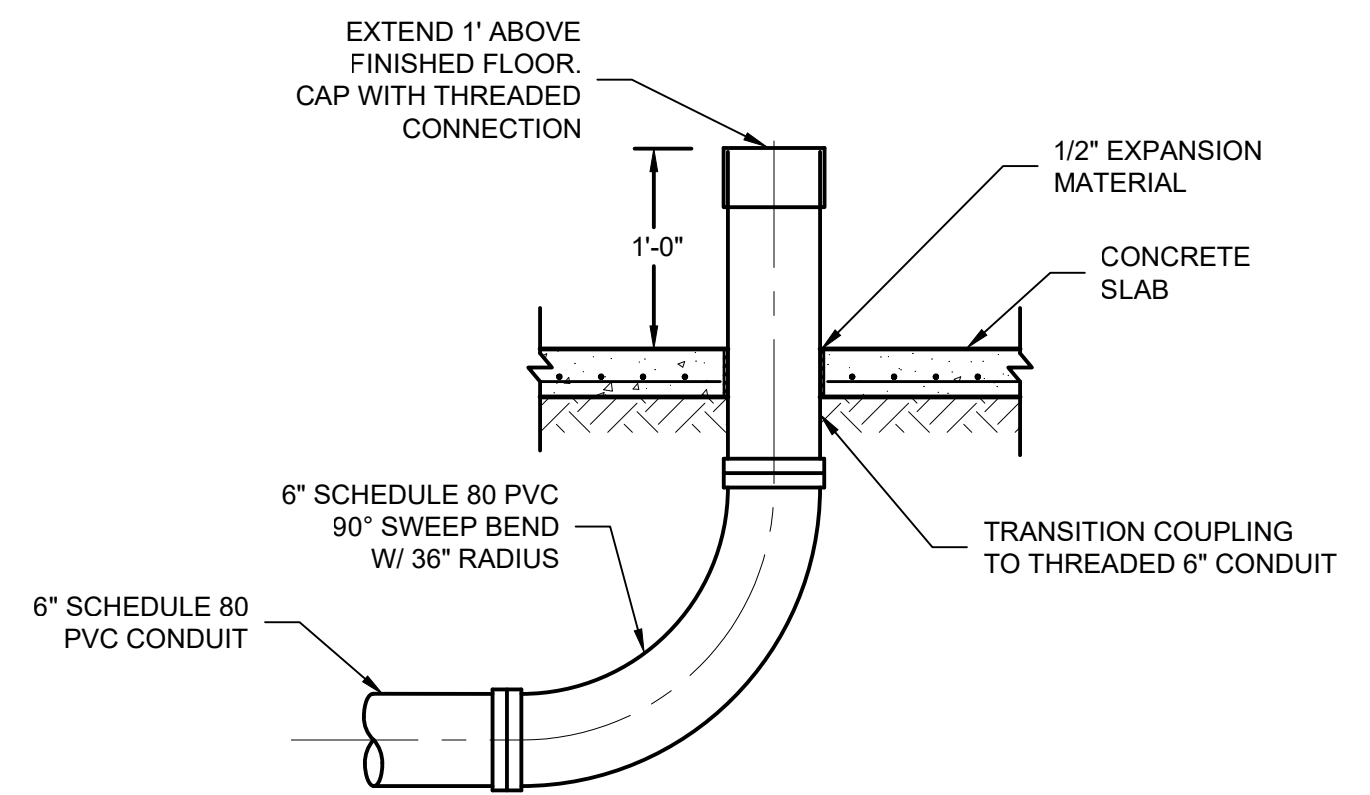
INLET VALVE DETAIL
SCALE: NONE



SECTION
SCALE: NONE

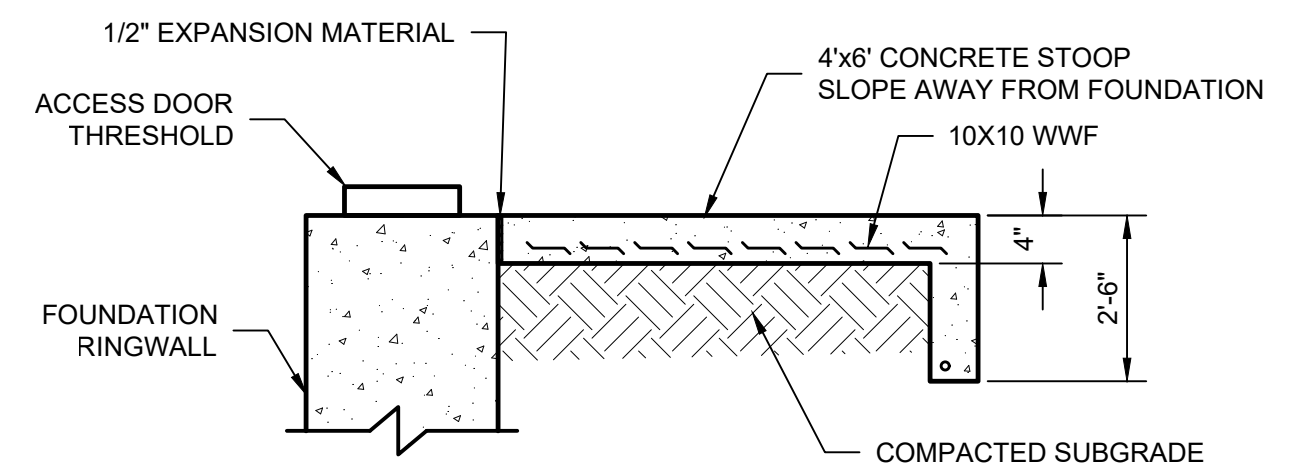


INLET/OUTLET TAP DETAIL
SCALE: NONE

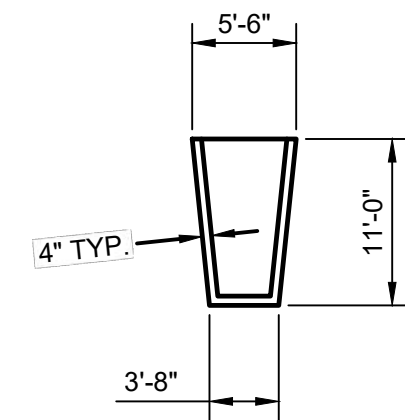


- NOTE:**
1. (2) 6" COMMUNICATION CONDUITS TO BE INSTALLED.

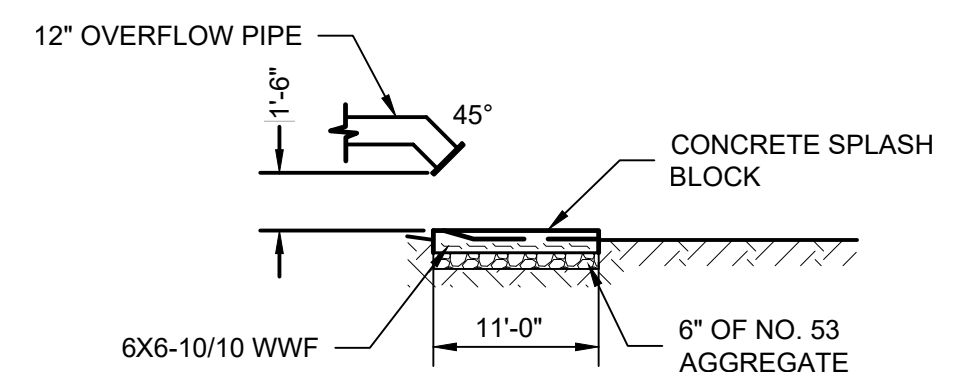
COMMUNICATION CONDUIT DETAIL
SCALE: NONE




STOOP DETAIL
SCALE: NONE



SPLASH BLOCK PLAN
SCALE: NONE



SPLASH BLOCK DETAIL
SCALE: NONE

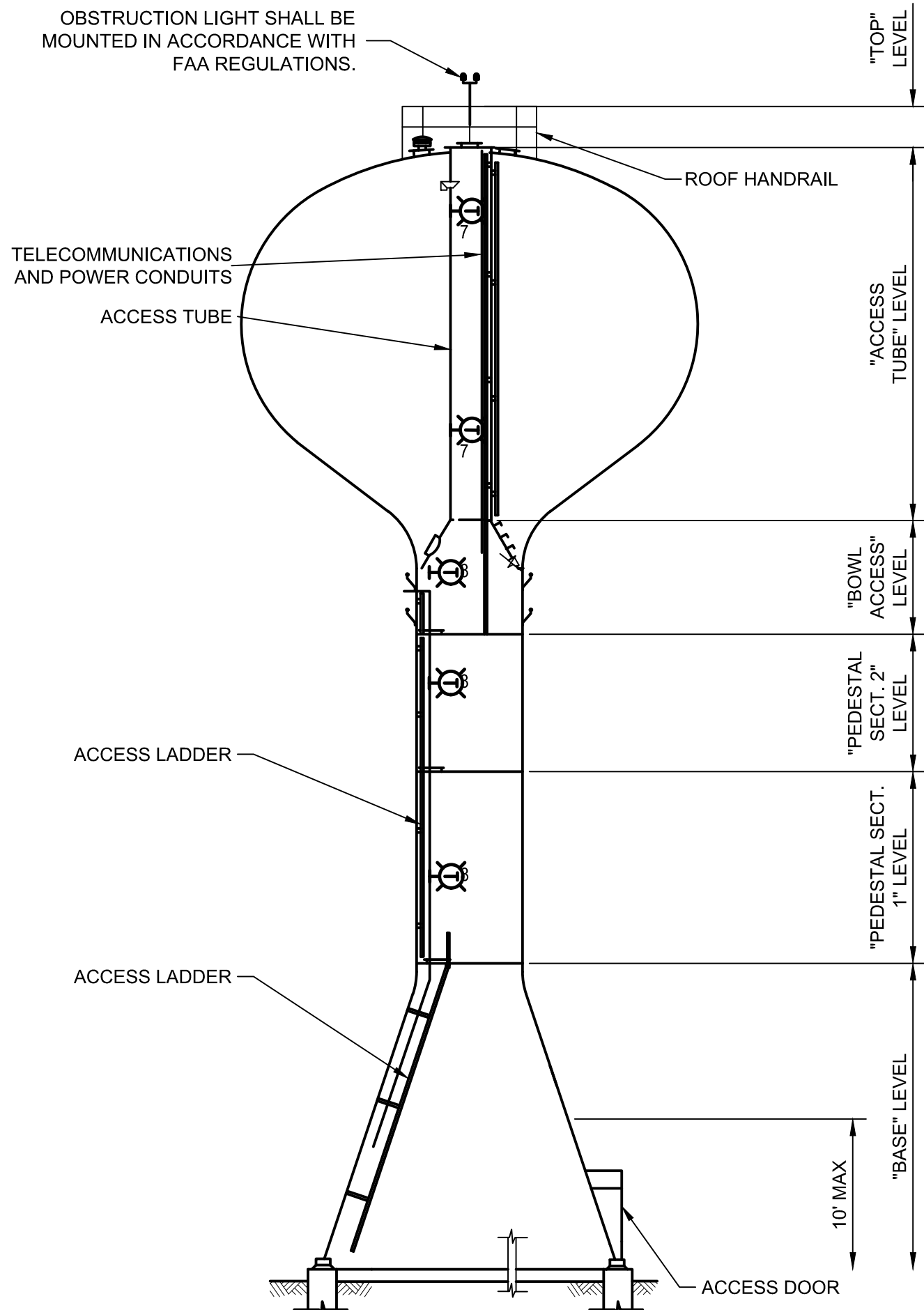
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| BAR IS ONE INCH LONG ON ORIGINAL DRAWING  | CHECKED BY | ACH | | | | |
| | APPROVED BY | LHR | | | | |
| | ISSUE DATE | | | | | |
| | JANUARY 2024 | | | | | |
| | PROJECT NUMBER | | | | | |
| | 261722-04-001 | | | | | |



DIVISION A - ELEVATED WATER STORAGE TANK
TIPTON MUNICIPAL UTILITIES
TIPTON, INDIANA
TANK ELEVATION AND DETAILS

SHEET NO.
06
TOTAL SHEETS
13

Drawing: Xi:Tipton261722 Tipton West Water & Sewer Improv.DWG Sheets:Div A - Tower261722-A_ELE-LEGEND_DET.dwg | Layout: 07 SPHEROID TANK ELECTRICAL ELEVATION AND PLANS (BASE BID) | Plotted: 01/24/24 @ 07:29:44 | LasSaveBy: Michelle

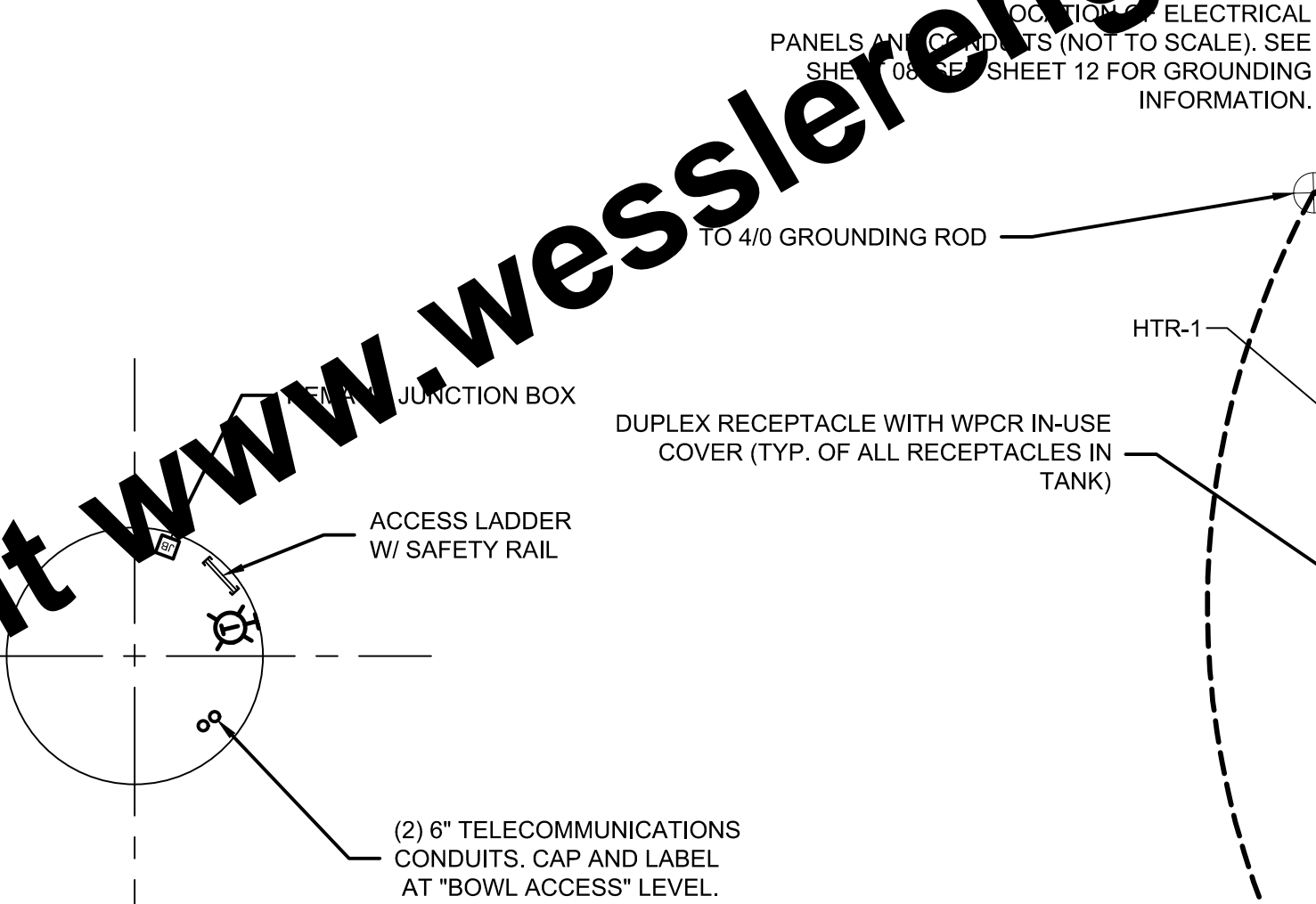


ELEVATED WATER TANK
ELECTRICAL ELEVATION
SCALE: NONE

- NOTES:
- "ACCESS TUBE" LEVEL TO HAVE TWO TYPE T LIGHTS (ONE AT BOTTOM AND ONE AT TOP) WITH SWITCH LOCATED AT ACCESS LADDER BASE.
 - "TOP" LEVEL ELEMENTS ARE LOCATED ON THE HANDRAIL. MOUNT RECEPTACLE ON HAND RAIL AT TOP OF TANK (LP-TNK-7)
 - SEE DETAIL SHEET 13 FOR MOUNTING INFORMATION.
 - INCLUDE NEMA 12 JUNCTION BOX AT BOTTOM OF EACH LEVEL.
 - INCLUDE DEDICATED NEMA 4X JUNCTION BOX FOR MIXER MOUNTED ON HANDRAILS AT TOP OF TANK.
 - INCLUDE DEDICATED NEMA 4X JUNCTION BOX FOR FAA LIGHT MOUNTED ON HANDRAILS AT TOP OF TANK.
 - ELEMENTS IN BASE NOT SHOWN FOR CLARITY. SEE PLAN VIEW THIS SHEET.
 - FAA LIGHT: DOUBLE TYPE, AVIATION RED OBSTRUCTION GLOBES, PHOTOELECTRIC CELL, IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 70/7460-1M. UNIT TO COME WITH CONTROL PANEL FROM MANUFACTURER WITH STATUS OUTPUTS TO CP-TNK-W.

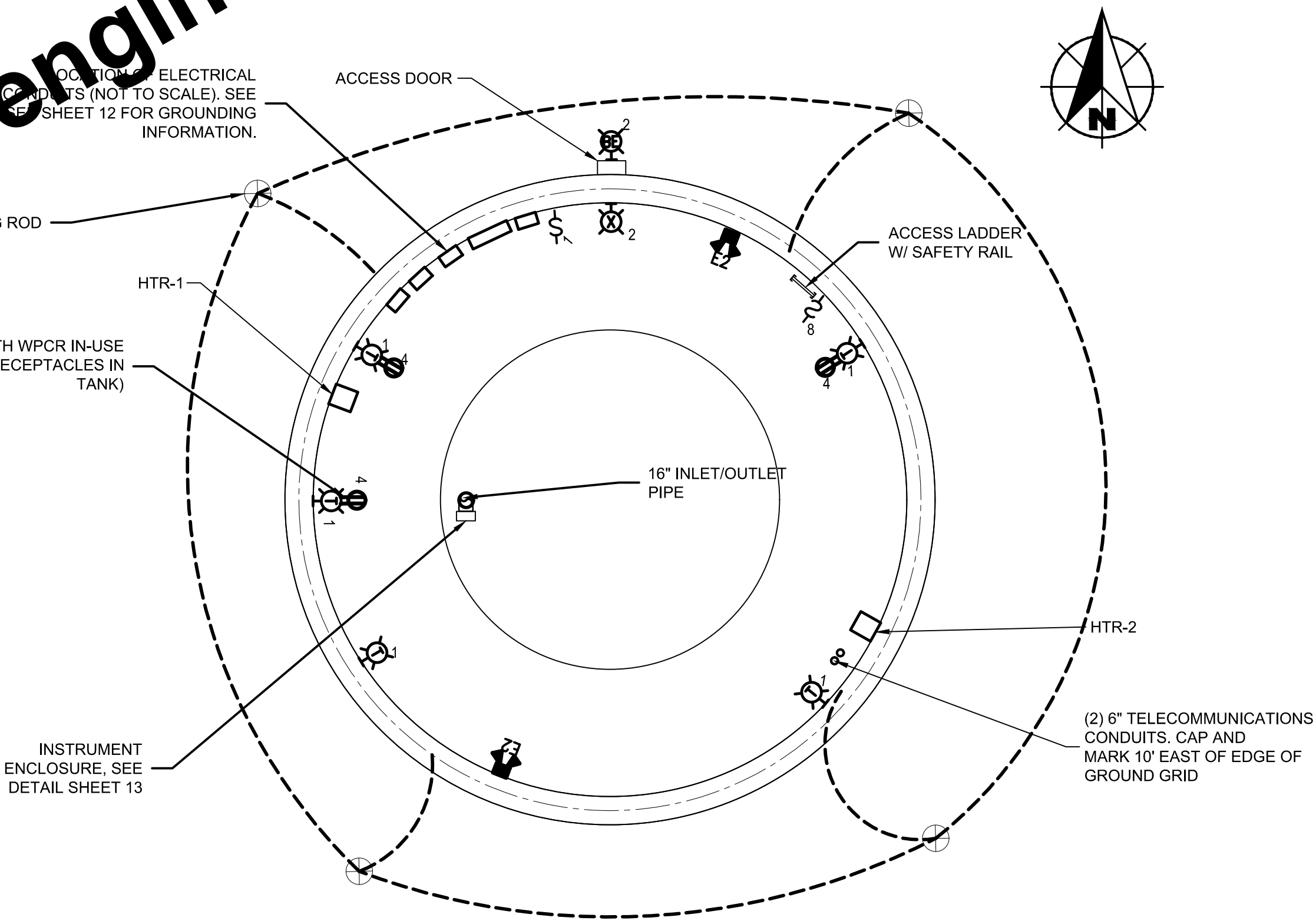
| UNIT HEATER SCHEDULE | | | | | | | | | | | |
|---|----------------------|-----------|-----|--------------|-----------|---------|----------|------------------------------|-----------|--------|------------------|
| NOTES: 1) INTEGRAL THERMOSTAT 2) MANUFACTURER SUPPLIED MOUNTING BRACKETED | | | | | | | | | | | |
| UNIT TAG | TYPE | MBH (MIN) | CFM | HEATING (KW) | MOTOR RPM | VOLTAGE | PHASE(S) | BASIS OF DESIGN MANUFACTURER | MODEL NO. | WEIGHT | APPLICABLE NOTES |
| HTR. 1 | HORIZONTAL PROPELLER | 17 | 270 | 5 | 1400 | 240 | 1 | QMARK | IUH-524 | 25 | ALL |
| HTR. 2 | HORIZONTAL PROPELLER | 17 | 270 | 5 | 1400 | 240 | 1 | QMARK | IUH-524 | 25 | ALL |

| LIGHTING FIXTURE SCHEDULE | | | | | |
|---------------------------|-------|------|---|---|--|
| TYPE | WATTS | LAMP | TYPE LUMINAIRE | MANUFACTURER | COMMENTS |
| BE | 72 | LED | WALLPACK, GREY, ALUMINUM BODY, WET LOCATION, IP65, -40 DEGREE F MINIMUM, 4000K, 80 CRI, SURGE PROTECTION, ACRYLIC OPTICAL SYSTEM TYPE 2 MEDIUM DISTRIBUTION, BUTTON PHOTOCELL, AND 5 YEAR WARRANTY. PROVIDE BATTERY BACKUP. | HOLOPHANE WALLPACK OR EQUAL | WAGLED-20LED-40K-A-S T3M-MV-OLT-PE-GYSDP EMERGENCY BATTERY |
| E | 15 | LED | EMERGENCY LIGHTING FIXTURE, LED, 90 MINUTES ILLUMINATION, THERMOPLASTIC BLACK HOUSING, 2-LED HEADS, UNIVERSAL VOLTAGE, SELF DIAGNOSTIC, 5 YEAR WARRANTY. | HOLOPHANE CORTEZ OR EQUAL | CZA11LT-B-LP06VS-LTP-HO-SD |
| T | 26 | LED | WALL MOUNT LED IN THERMAL SHOCK RESISTANT GLOBE, DIE CAST ALUMINUM HOUSING WITH GUARD, 4000K, 68CRI, 2000LM, 120-277MVOLT DRIVER | RAB VXXVRLD28DG, HOLOPHANE EQUAL OR OTHER EQUAL | MOUNTED EVERY 15' VERTICALLY IN TUBE OF TANK. ON ACCESS LADDER AND/OR AS SHOWN ON DRAWINGS |
| X | 4 | LED | EXIT LIGHTING FIXTURE, LED, THERMOPLASTIC BLACK HOUSING, RED, 10 YEAR LIFE, SELF DIAGNOSTIC, UL LISTED, WET LOCATION LISTED, 3 YEAR WARRANTY. | HOLOPHANE DELEON DLT.L OR EQUAL | DLTL-B-1-R-EL-SD |



TANK SECTION
SCALE: NONE

- NOTES:
- TYPICAL OF "PEDESTAL SECT. 1 & 2" LEVELS.
 - LIGHTING IN "PEDESTAL SECT. 1 & 2" ON SAME CIRCUIT
 - "BOWL ACCESS" LEVEL SAME WITH ADDITION OF:
 - TWO (2) DUPLEX GFCI WPCR RECEPTACLES WITH IN USE COVER LOCATED OFFSET TO BOWL ACCESS MANHOLE (LP-TNK-7).

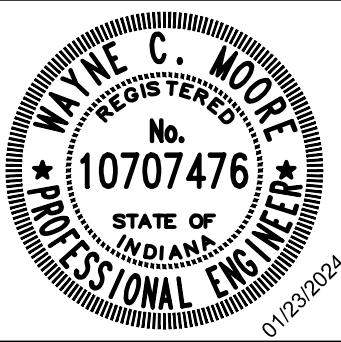


TANK FLOOR PLAN
SCALE: NONE

- NOTE:
- TYPE E AND X LIGHTS NOT ON SWITCH

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| SCALE VERIFICATION | DRAWN BY | MLW | NO. | DATE | INITIALS | REVISION DESCRIPTIONS |
|---|----------------|-----|-----|------|----------|-----------------------|
| BAR IS ONE INCH LONG ON ORIGINAL DRAWING <div></div> | CHECKED BY | MLW | | | | |
| | APPROVED BY | WCM | | | | |
| | ISSUE DATE | | | | | |
| | JANUARY 2024 | | | | | |
| | PROJECT NUMBER | | | | | |
| | 261722-04-001 | | | | | |

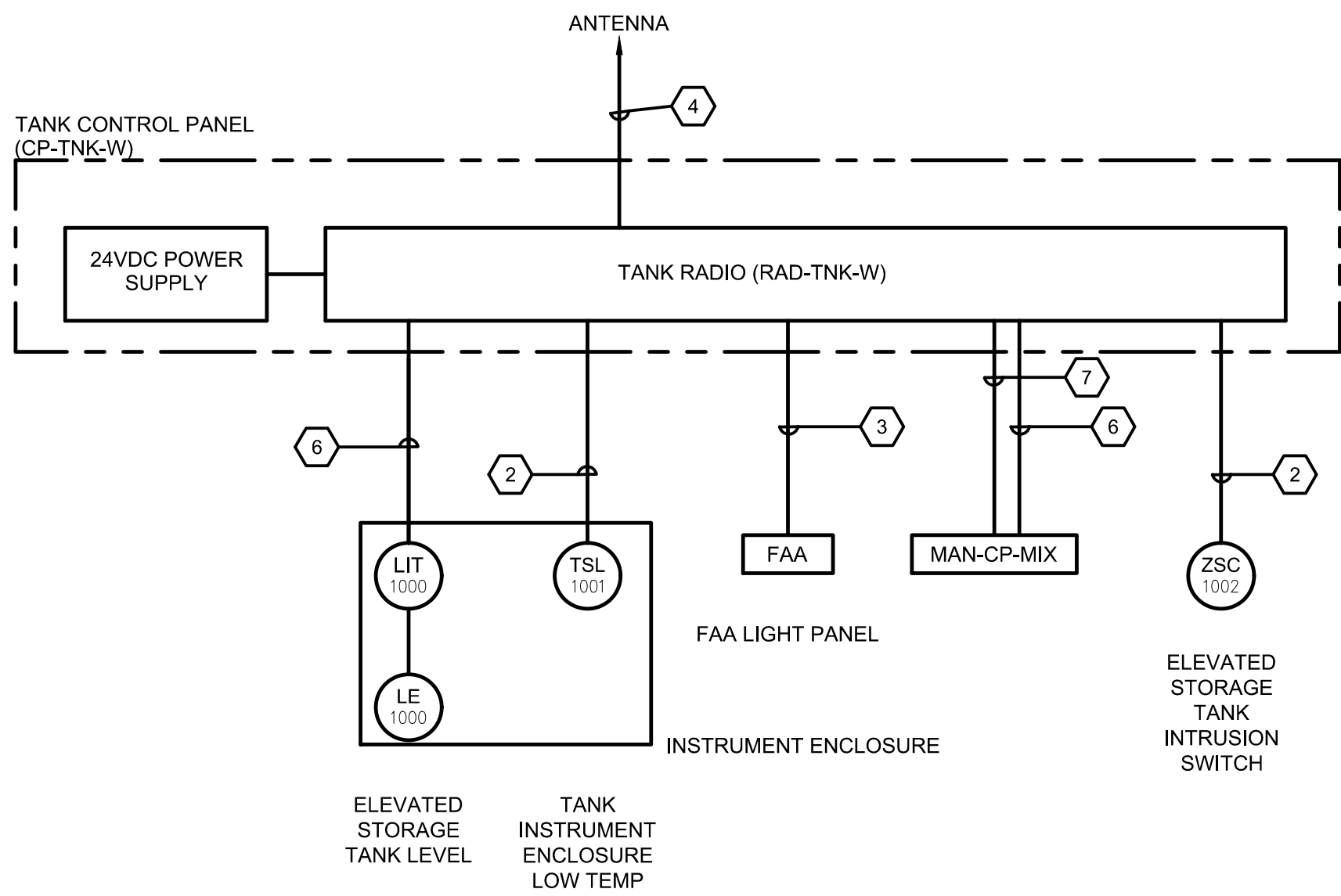


W
WESSLER
ENGINEERING
More than a Project™

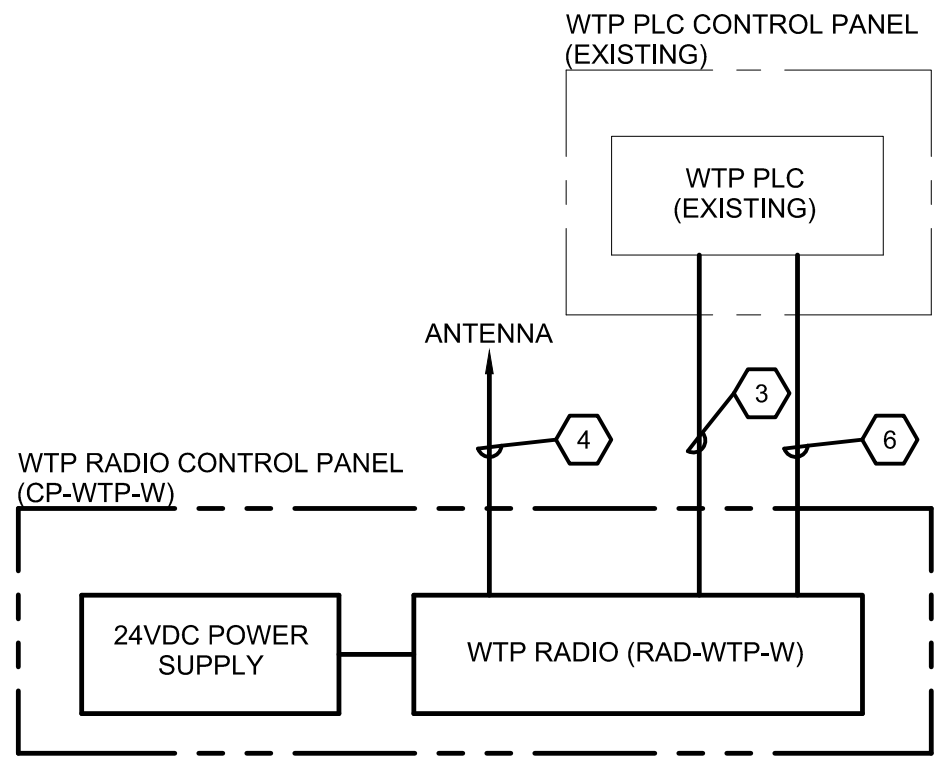
DIVISION A - ELEVATED WATER STORAGE TANK
TIPTON MUNICIPAL UTILITIES
TIPTON, INDIANA
TANK ELECTRICAL ELEVATION AND PLANS

SHEET NO.
07
TOTAL SHEETS
13

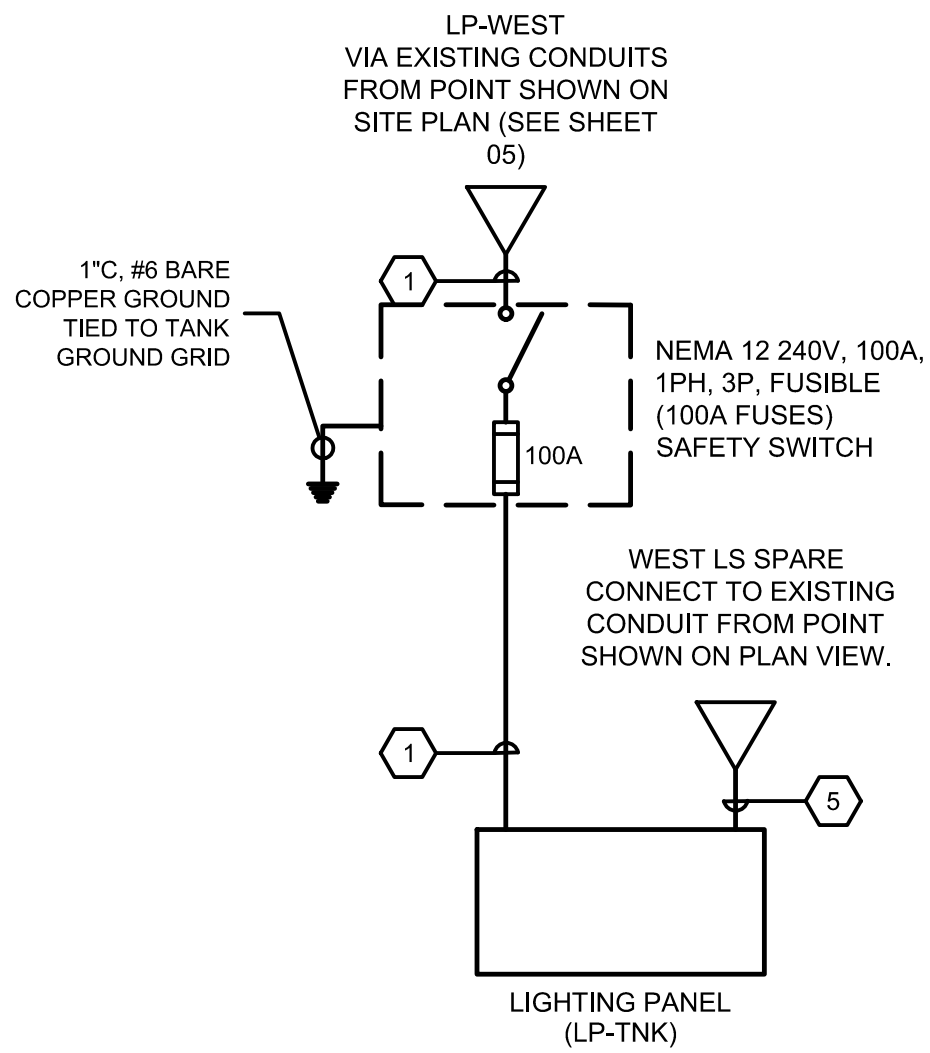
Drawing: X:\Tipton\261722\Tipton West Water & Sewer Improvements\Drawings\Div A - Tank Electrical Diagrams and Schedules (BASE BID) | Plotfile: 01/24/24 @ 07:29:50 | LastSavedBy: Michelle



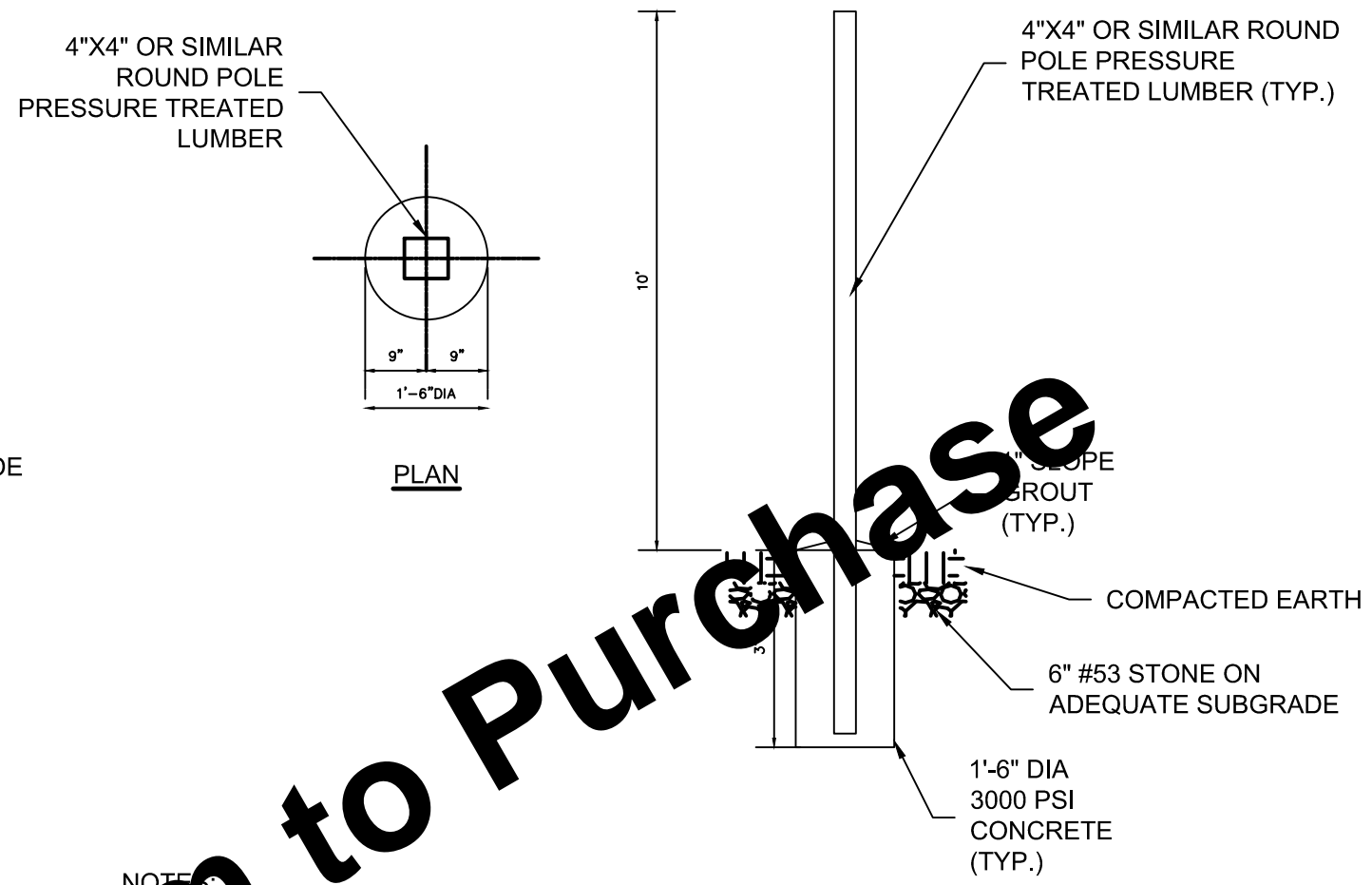
SPHEROID TANK CONTROLS ONE-LINE
SCALE: NONE



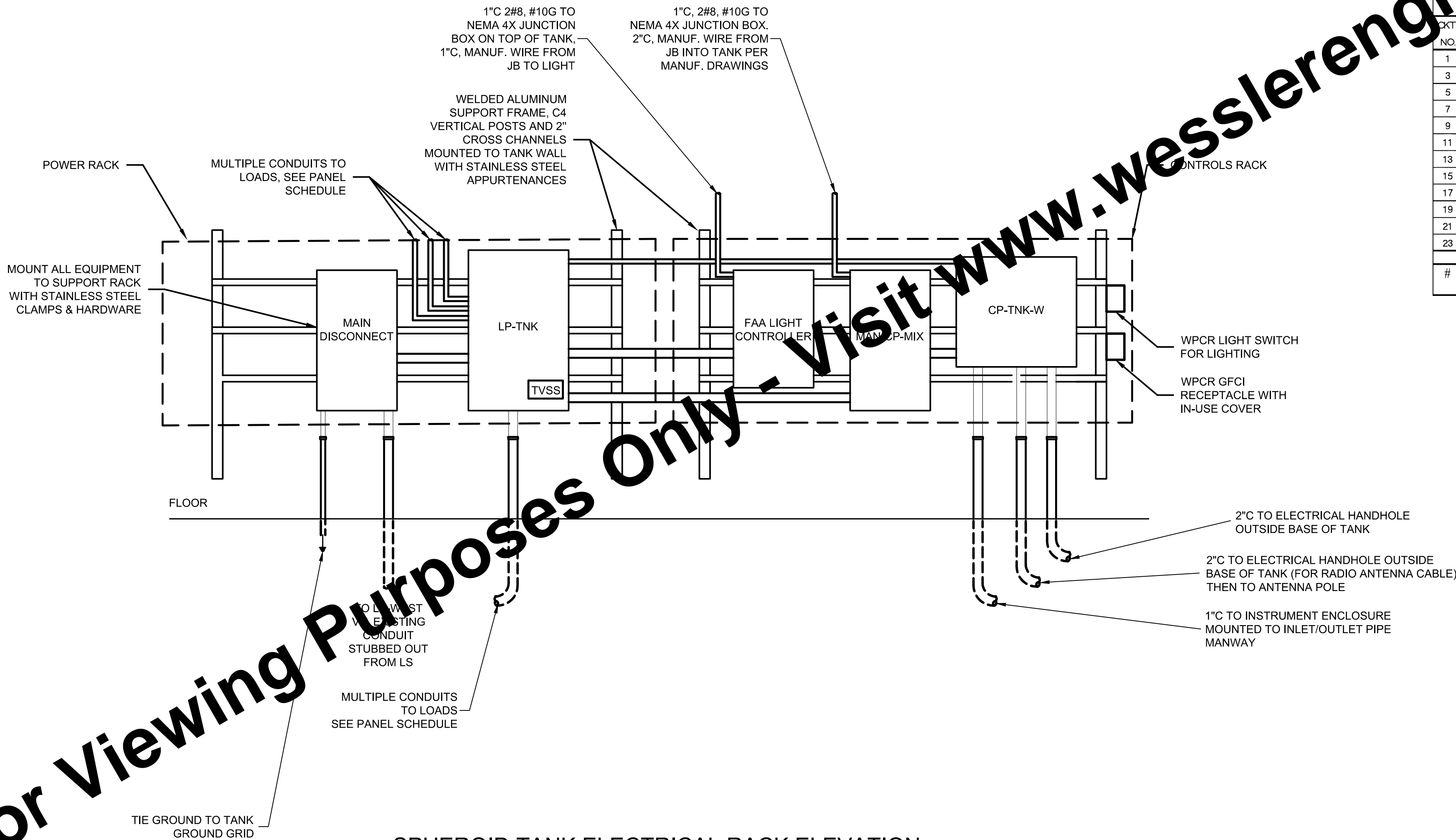
WTP CONTROLS ONE-LINE
SCALE: NONE



SPHEROID TANK POWER ONE-LINE
SCALE: NONE



TYPICAL ANTENNA POLE
SCALE: NONE



SPHEROID TANK ELECTRICAL RACK ELEVATION
SCALE: NONE


| PANEL SCHEDULE | | DESIGNATION: PANEL LP-TNK | | LOCATION: ELEVATED STORAGE TANK BASE | | MAINS: 100 AMP MAIN BREAKER | | BUS SIZE: 125 AMP | | PANEL MOUNTING: RACK IN BASE | | ALL BREAKERS: 10000 A.I.C. (MINIMUM) | |
|--|--------------------------|---------------------------|------|--------------------------------------|------|-----------------------------|------|-------------------|------|------------------------------|-----|--------------------------------------|----------|
| QCT. NO. | LOAD DESCRIPTION | # | KVA | AMPS | POLE | A | B | AMPS | POLE | KVA | # | LOAD DESCRIPTION | QCT. NO. |
| 1 | TNK LTG. BASE MAIN | 1 | 0.26 | 20 | 1 | 0.26 | | 20 | 1 | 0.00 | 1 | TNK LTG. BASE AUX | 2 |
| 3 | INSTRUMENT ENCLOSURE HTR | 1 | 0.50 | 20 | 1 | | 1.00 | 20 | 1 | 0.50 | 1 | RECEPT. BASE | 4 |
| 5 | CP-TNK | 1 | 0.50 | 20 | 1 | 1.00 | | 20 | 1 | 0.50 | 1 | FAA LIGHT PANEL | 6 |
| 7 | RECEPT. TOP | 4 | 0.45 | 20 | 1 | | 0.71 | 20 | 1 | 0.26 | 4 | TNK LTG. LADDER | 8 |
| 9 | SPARE | | 0.00 | 20 | 1 | 0.00 | | 20 | 1 | 0.00 | | SPARE | 10 |
| 11 | SPARE | | 0.00 | 20 | 1 | | 0.00 | 20 | 1 | 0.00 | | SPARE | 12 |
| 13 | SPARE | | 0.00 | 20 | 1 | 0.00 | | 20 | 1 | 0.00 | | SPARE | 14 |
| 15 | SPARE | | 0.00 | 20 | 1 | | 0.00 | 20 | 1 | 0.00 | | SPARE | 16 |
| 17 | HTR. 1 | 3 | 2.50 | 30 | 2 | 5.00 | | 30 | 2 | 2.50 | 3 | HTR. 2 | 18 |
| 19 | | | 2.50 | | | | 5.00 | | | 2.50 | | | 20 |
| 21 | MAN-CP-MIX | 4 | 1.50 | 20 | 1 | 1.50 | | 30 | 2 | 0.00 | 3 | SPD (SEE SPEC) | 22 |
| 23 | SPACE | | | | | | 0.00 | | | 0.00 | | | 24 |
| TOTAL CONNECTED LOAD: | | | | | | 7.76 | 6.71 | TOTAL = | | 14.47 | KVA | | |
| # ONE (1) OR TWO (2) DIGIT NUMBERS REFER TO CONDUIT & WIRE SCHEDULE ON THIS SHEET. | | | | | | | | | | | | | |
| NEMA12 | | | | | | | | | | | | | |

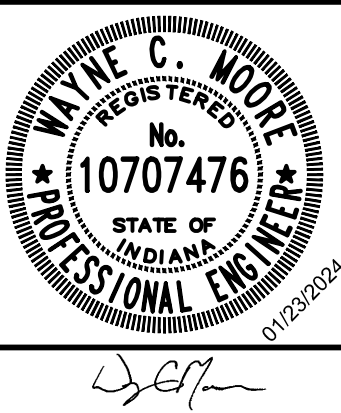
| PANELBOARD BRANCH CIRCUIT CONDUIT & CABLE SCHEDULE | |
|--|--|
| # | DESCRIPTION |
| 1 | 1" CONDUIT WITH 2 #12 CONDUCTORS AND 1 #12 GROUND CONDUCTOR. |
| 2 | 1" CONDUIT WITH 3 #12 CONDUCTORS AND 1 #12 GROUND CONDUCTOR. |
| 3 | 1" CONDUIT WITH 2 #10 CONDUCTORS AND 1 #10 GROUND CONDUCTOR. |
| 4 | 1" CONDUIT WITH 2 #8 CONDUCTORS AND 1 #10 GROUND CONDUCTOR. |

LP-TNK SCHEDULE

- LP-TNK SCHEDULE NOTES:
- COMBINING OF LIGHTING AND RECEPT. CIRCUITS IN CONDUIT IS ACCEPTABLE IN THE TANK WITH ENGINEER APPROVAL. NEC GUIDELINES FOR CONDUIT FILL MUST BE MET AND DERATING FACTORS FOR MULTIPLE CONDUCTORS IN THE SAME CONDUIT SHOULD BE TAKEN INTO ACCOUNT.
 - USE "PANELBOARD BRANCH CIRCUIT CONDUIT & CABLE SCHEDULE" ABOVE FOR DETERMINING CONDUIT AND WIRE SIZE IN LP-TNK, NOT THE "CONDUIT AND WIRE SCHEDULE".

For Viewing Purposes Only - Visit www.wesslerengineering.com to Purchase

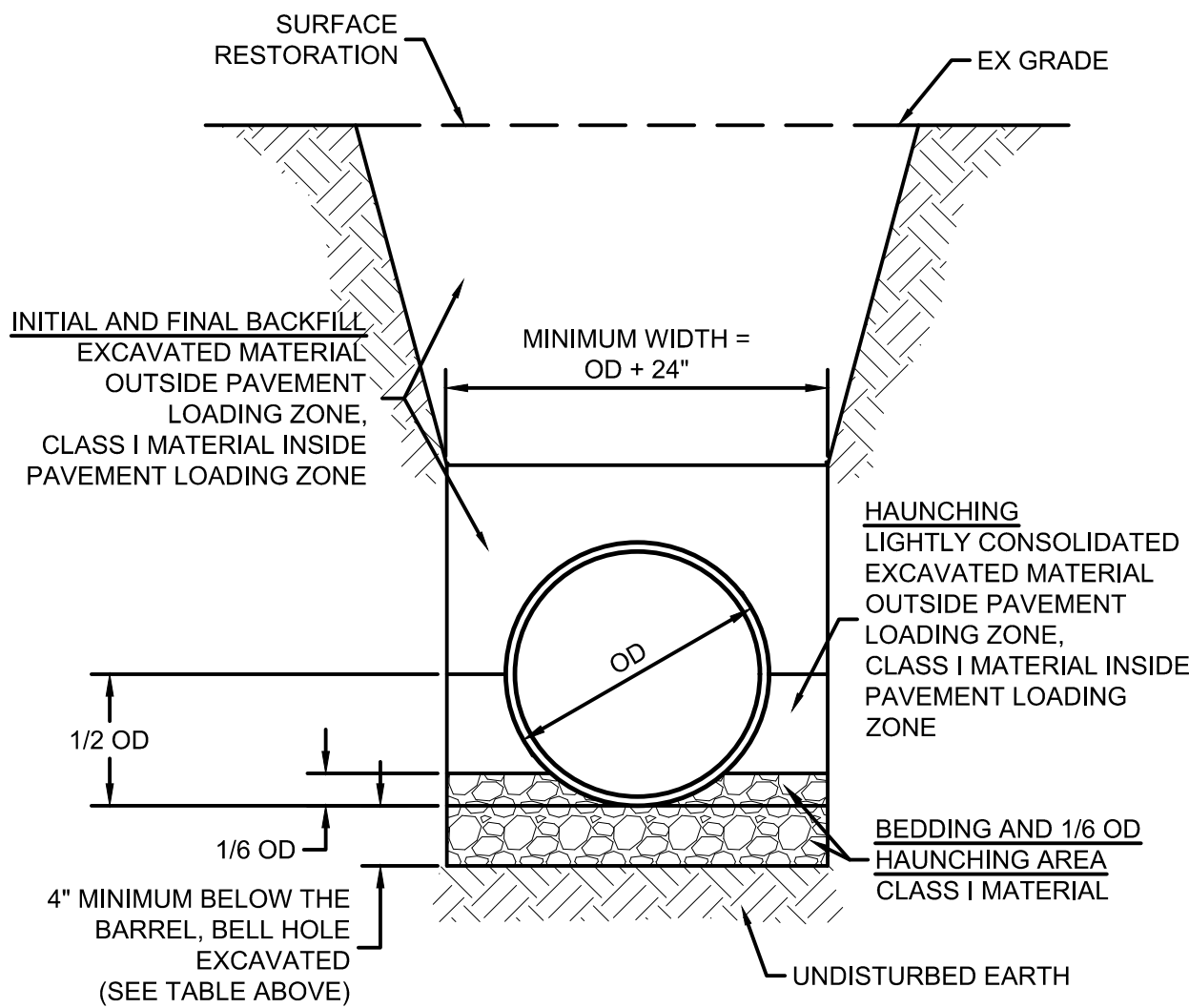
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| | APPROVED BY | WCM | | | | |
| | ISSUE DATE | | | | | |
| | JANUARY 2024 | | | | | |
| | PROJECT NUMBER | | | | | |
| | 261722-04-001 | | | | | |



| DIVISION A - ELEVATED WATER STORAGE TANK | |
|---|--|
| TIPTON MUNICIPAL UTILITIES TIPTON, INDIANA | |
| TANK ELECTRICAL DIAGRAMS AND SCHEDULES | |

| SHEET NO. | 08 |
|--------------|----|
| TOTAL SHEETS | 13 |

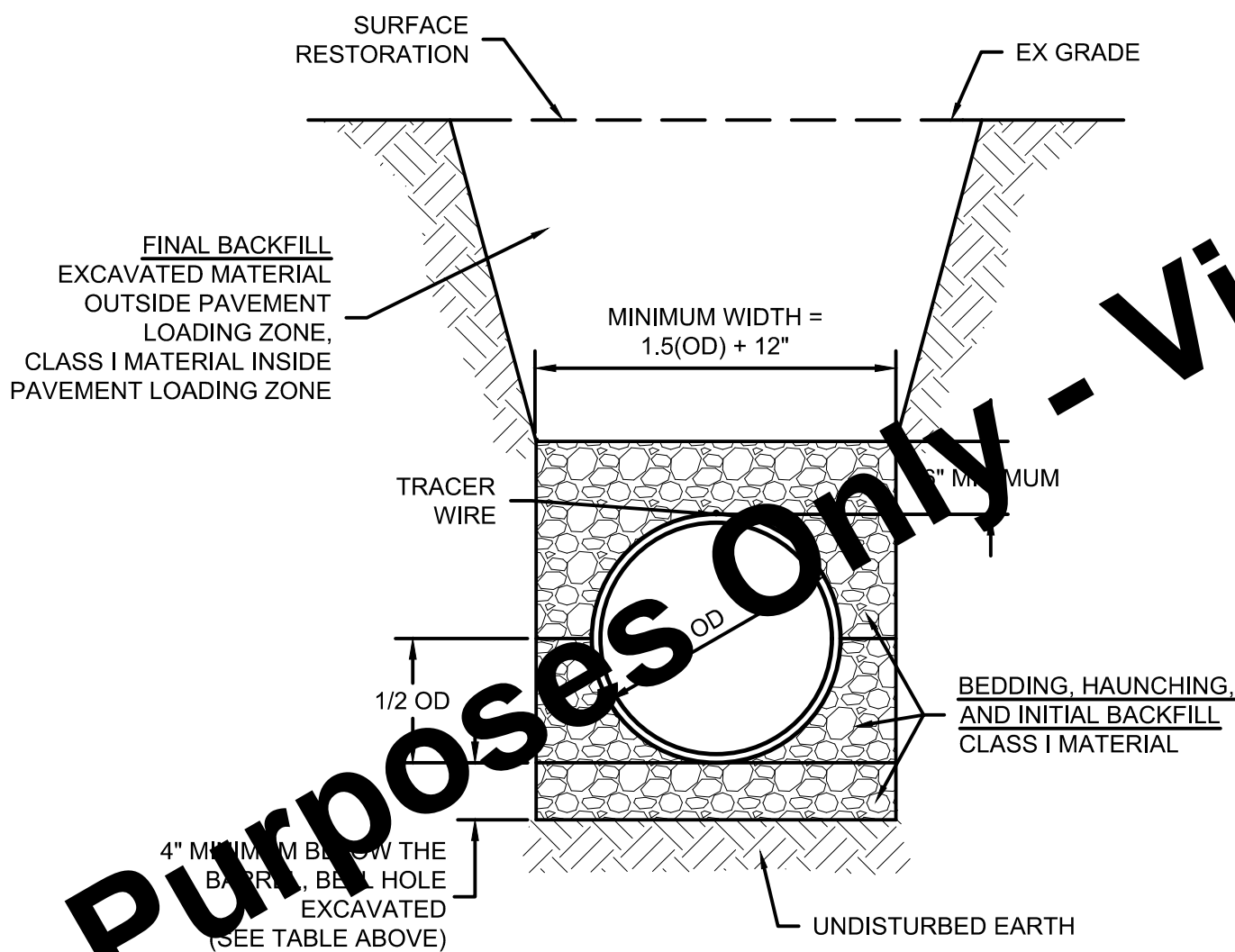
| PIPE SIZE | 3" TO 16" | 18" TO 30" | 32" AND OVER |
|-------------------------------|-----------|------------|--------------|
| BEDDING BELOW THE PIPE BARREL | 4" | OD / 4 | 8" |



DUCTILE IRON (DI) PIPE TRENCH

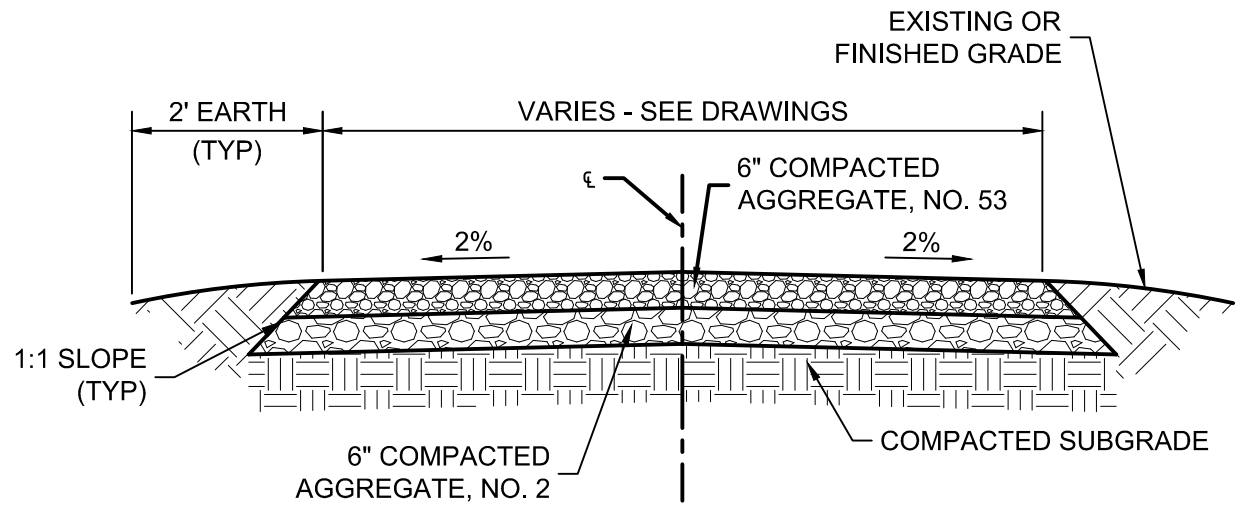
SCALE: NONE

| PIPE SIZE | 3" TO 15" | 18" TO 30" | 33" AND OVER |
|-------------------------------|-----------|------------|--------------|
| BEDDING BELOW THE PIPE BARREL | 4" | OD / 4 | 8" |



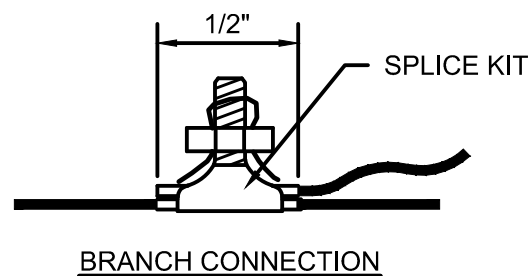
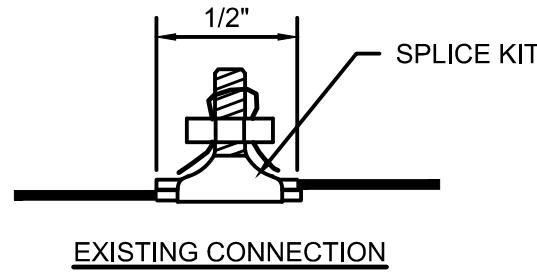
PLASTIC PIPE TRENCH (PRESSURE)

SCALE: NONE



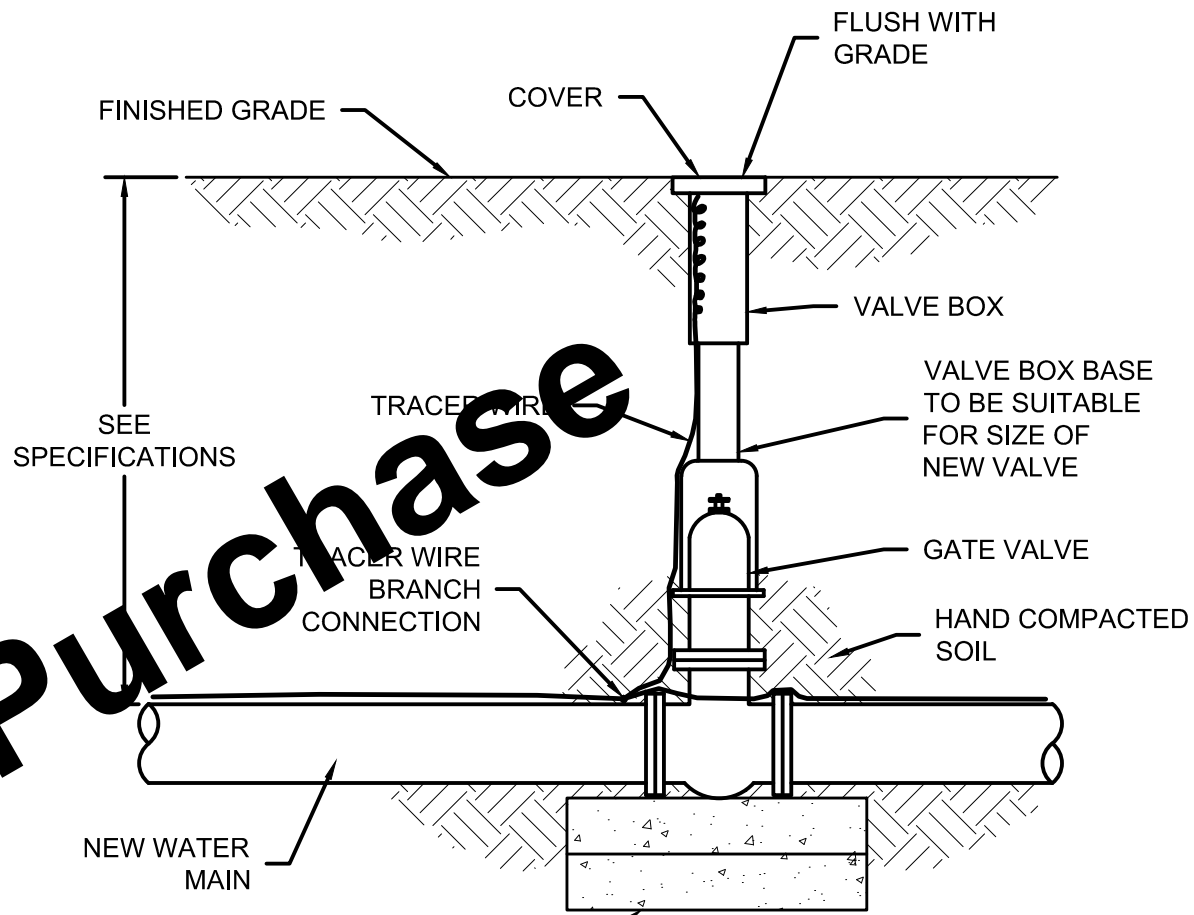
CRUSHED STONE DRIVE

SCALE: NONE



TRACER WIRE
BOLTED CONNECTION

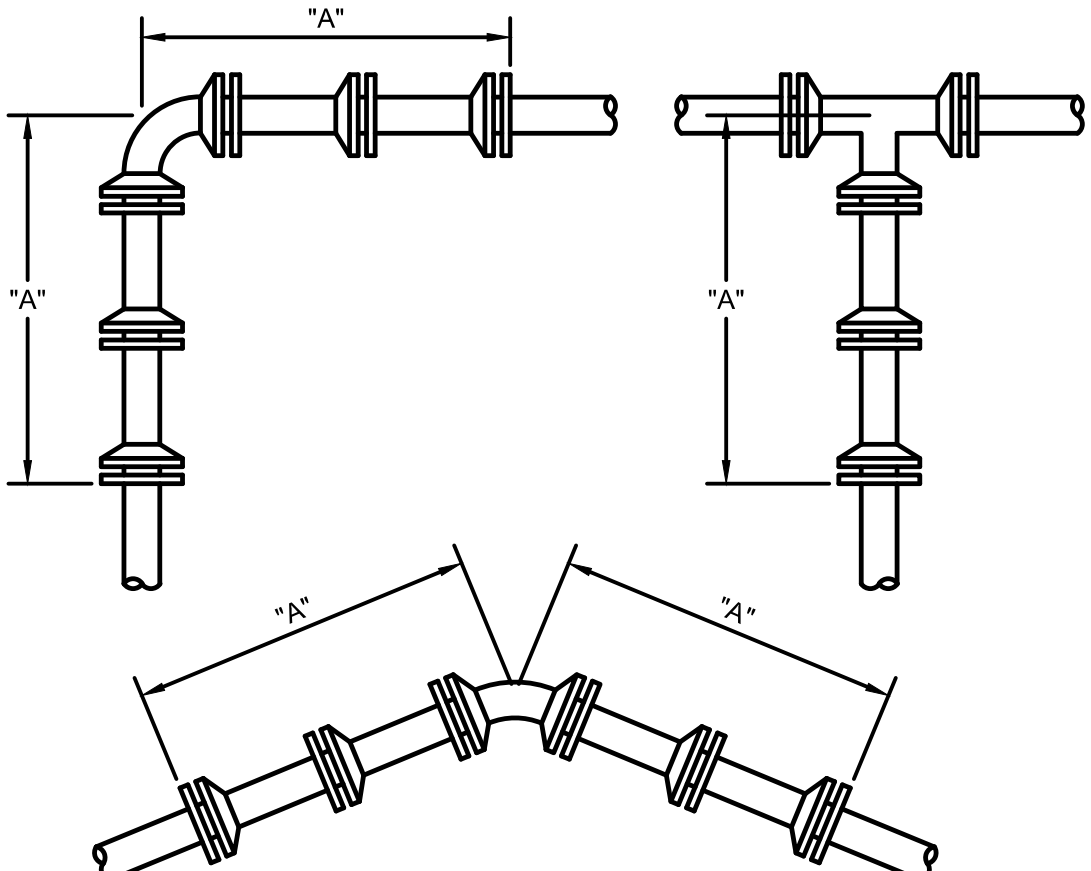
SCALE: NONE



GATE VALVE

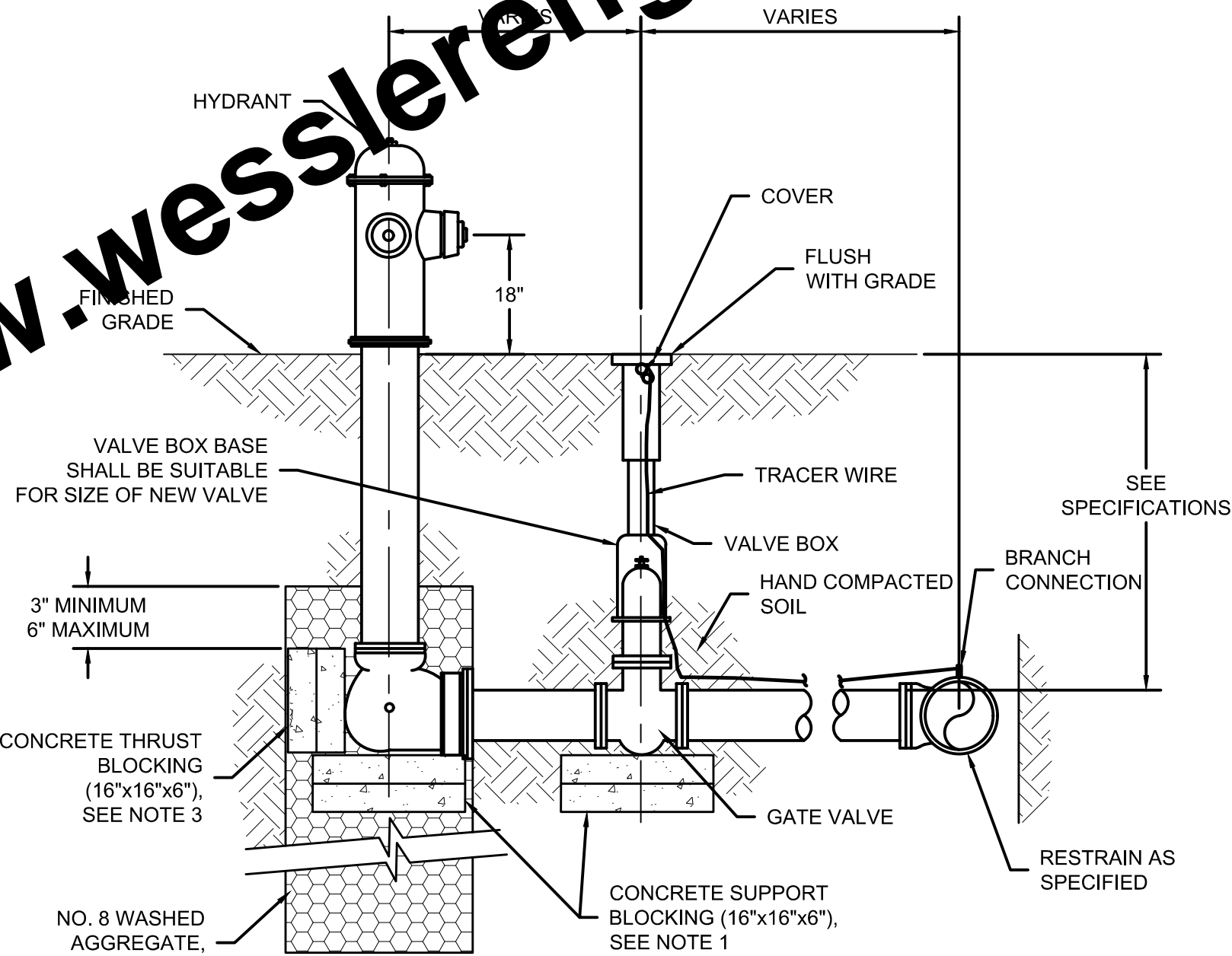
SCALE: NONE

| FEET OF RESTRAINED PIPE @ 150 PSI (A) ON EACH SIDE OF FITTING | |
|--|-----------------|
| FITTING TYPE | WATER MAIN SIZE |
| 11 1/4° HORIZ BEND | 6' |
| 22 1/2° HORIZ BEND | 11' |
| 45° HORIZ BEND | 22' |
| 90° HORIZ BEND | 52' |
| 11 1/4° VERT BEND | 10' |
| 22 1/2° VERT BEND | 20' |
| 45° VERT BEND | 41' |
| 90° VERT BEND | 98' |
| TEE OUTLET | 41' |
| VALVES AND PLUGS | 49' |
| DEAD END | 49' |



WATER MAIN RESTRAINED PIPING

SCALE: NONE



HYDRANT ASSEMBLY

SCALE: NONE

- NOTES:
1. SET HYDRANT AND VALVE ON CONCRETE SUPPORT BLOCKING.
 2. PLACE 2'x3' DEEP DRAINAGE PIT. EXTEND A MINIMUM OF 3", AND MAXIMUM OF 6", ABOVE HYDRANT BOOT.
 3. RESTRAINED FITTINGS SHALL BE USED IN ADDITION TO CONCRETE THRUST BLOCKING. RESTRAINTS MUST BE USED FROM THE DISTRIBUTION MAIN TO THE HYDRANT. PLACE CONCRETE BLOCKS BEHIND HYDRANT TO UNDISTURBED EARTH.
 4. VALVE BOX SHALL BE CENTERED AND PLUMB OVER VALVE OPERATING NUT.

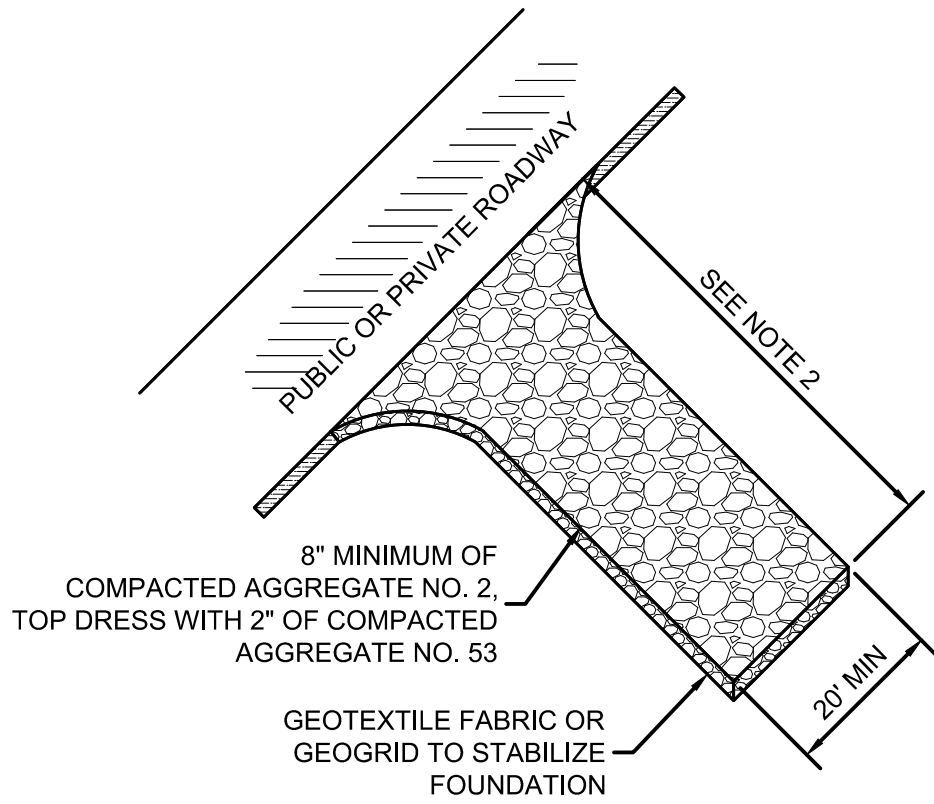
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| BAR IS ONE INCH LONG ON ORIGINAL DRAWING | CHECKED BY | ACH | | | | |
| | APPROVED BY | LHR | | | | |
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| | 261722-04-001 | | | | | |



| DIVISION A - ELEVATED WATER STORAGE TANK | |
|---|--|
| TIPTON MUNICIPAL UTILITIES TIPTON, INDIANA | |
| MISCELLANEOUS DETAILS | |

| SHEET NO. |
|--------------|
| 09 |
| TOTAL SHEETS |
| 13 |

Drawing: X:\Tipton\261722 Tipton West Water & Sewer Improvements\Drawings\Div A - Tower\EROSION CONTROL DETAILS.dwg | Layout: 10 EROSION CONTROL DETAILS | Plotted: 01/23/24 @ 12:52:14 | LastSavedBy: CurtisG



- NOTES:**
1. PLACE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS AND AT ALL TEMPORARY CONSTRUCTION DRIVES THAT ARE INSTALLED.
 2. FOR LARGE SITES (2 ACRES OR LARGER) THE MINIMUM LENGTH IS 150'. FOR SMALLER SITES (LESS THAN 2 ACRES) THE MINIMUM LENGTH IS 50'.
 3. PROVIDE CULVERT OR OTHER METHODS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- MAINTENANCE:**
1. INSPECT DAILY AND REPLACE DISPLACED STONE.
 2. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED ONTO ADJACENT ROADWAY.
 3. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
 4. AT COMPLETION OF PROJECT COMPLETELY REMOVE AND RESTORE SITE TO ORIGINAL CONDITIONS, OR AS APPLICABLE USE FOR BASE OF NEW PERMANENT DRIVE, MAINTAINING DESIGN ELEVATIONS AND SECTION.

CONSTRUCTION ENTRANCE

SCALE: NONE



- PRODUCT:**
1. NORTH AMERICAN GREEN SC150, OR EQUAL.
- NOTES:**
1. PROTECT THE SLOPES WITH AN EROSION CONTROL BLANKET WHERE CONSTRUCTION DISTURBS SLOPES EQUAL OR STEEPER THAN 3:1.
- MAINTENANCE:**
1. INSPECT FOR EROSION AFTER EACH STORM EVENT DURING VEGETATION ESTABLISHMENT, AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
 2. IF ANY AREAS SHOW EROSION, PULL BACK THAT PORTION OF THE BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE THE BLANKET.
 3. CHECK AREAS PERIODICALLY AFTER VEGETATION ESTABLISHMENT.

EROSION CONTROL BLANKET

SCALE: NONE

| SEASONAL SOIL PROTECTION CHART | | | | | | | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| STABILIZATION PRACTICE | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| PERMANENT SEEDING | | | A | | | | | | | | | | |
| DORMANT SEEDING | B | | | | | | | | | | B | | |
| TEMPORARY SEEDING | | | C | | | | | E | | D | | | |
| SODDING | | | F | | | | | | | | | | |
| MULCHING | | | | | | G | | | | | | | |


- A. = KENTUCKY BLUEGRASS 40 LB/ACRE
B. = KENTUCKY BLUEGRASS 210 LB/ACRE
C. = SPRING OATS 100 LB/ACRE (1\"/>

- NOTES:**
1. IRRIGATION NEEDED DURING MAY THROUGH SEPTEMBER.
 2. IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOIL MIXTURE.
 3. ANCHORED MULCH IS REQUIRED FOR PERMANENT, DORMANT, AND TEMPORARY SEEDING.
 4. OPTIMUM SEEDING DATES PROVIDED. DATES MAY BE EXTENDED OR SHORTENED BASED ON PROJECT LOCATION.
 5. SEED MIXTURES PROVIDED FOR LAWNS AND GREEN MAINTENANCE AREAS.
- MAINTENANCE:**
1. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
 2. CHECK FOR EROSION AND MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
 3. MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (70% DENSITY).
 4. RESEED, FERTILIZE OR APPLY MULCH WHERE NECESSARY.

| EROSION CONTROL SCHEDULE | |
|--|--|
| CONSTRUCTION ACTIVITY | SCHEDULE CONSIDERATION |
| REVIEW THE EROSION CONTROL SCHEDULE ON THE DRAWINGS AND REVISE AS NEEDED TO PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE THE FOOTPRINT OF DISTURBED UNSTABLE AREAS. SUBMIT A REVISED EROSION CONTROL SCHEDULE AS NEEDED FOR TEMPORARY AND PERMANENT EROSION CONTROL WORK AS APPLICABLE. | COMPLETE BEFORE CONSTRUCTION BEGINS. |
| CONSTRUCTION ACCESS - ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR EQUIPMENT PARKING, MATERIALS STAGING, AND WASTE HANDLING | THIS IS THE FIRST LAND-DISTURBING ACTIVITY. AS SOON AS CONSTRUCTION BEGINS, STABILIZE ANY BARE AREAS WITH AGGREGATE AND TEMPORARY VEGETATION. |
| SEDIMENT TRAPS AND BARRIERS - BASIN TRAPS, SILT FENCE, AND PERIMETER PROTECTION. | AFTER CONSTRUCTION IS ACCESSED, BASINS SHALL BE INSTALLED, WITH THE ADDITION OF MORE TRAPS AND BARRIERS AS NEEDED DURING GRADING. SET UP PROTECTION FOR NATURAL FEATURES, TREES AND BUFFERS. |
| RUNOFF CONTROL - DIVERSIONS, PERIMETER PROTECTION, CHECK DAMS, OUTLET PROTECTION. | RUNOFF CONTROL PRACTICES SHALL BE INSTALLED AFTER THE INSTALLATION OF SEDIMENT TRAPS AND BEFORE LAND GRADING. ADDITIONAL RUNOFF CONTROL MEASURES MAY BE INSTALLED DURING GRADING. |
| RUNOFF CONVEYANCE SYSTEM - STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS. | AS NECESSARY, STABILIZE STREAM BANKS AND SIDE SLOPES OF RUNOFF SYSTEMS AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKETS OR SLOPE DRAINS TO PREVENT EROSION. INSTALL INLET PROTECTION TO PREVENT SEDIMENTS FROM ENTERING STORM DRAINAGE SYSTEMS. PROTECT STORM OUTLETS TO PREVENT EROSION. |
| LAND CLEARING AND GRADING - SITE PREPARATION (CUTTING, FILLING, AND GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING). | IMPLEMENT CLEARING AND GRADING AFTER INSTALLATION OF SEDIMENT TRAPS AND RUNOFF CONTROL MEASURES, AND INSTALL ADDITIONAL CONTROL MEASURES AS GRADING CONTINUES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED. |
| SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET. | APPLY TEMPORARY OR PERMANENT STABILIZING MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED. |
| CONSTRUCTION - STRUCTURES, UTILITIES, PAVING, CONCRETE WASHOUT, AND CONSTRUCTION ENTRANCES. | DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED. |
| LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP. | THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE ALL TEMPORARY CONTROL MEASURES WHEN A UNIFORM DENSITY OF 70% VEGETATION COVER IS MET. PROVIDE NOTIFICATION TO THE OWNER WHEN THE ENTIRE SITE HAS BEEN STABILIZED AND ALL CONSTRUCTION MATERIALS, WASTES, AND EQUIPMENT HAVE BEEN REMOVED. |

EROSION CONTROL SCHEDULE

SCALE: NONE

| SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING  | DRAWN BY | MRE | NO. | DATE | INITIALS | REVISION DESCRIPTIONS |
|---|----------------|---------------|-----|------|----------|-----------------------|
| | CHECKED BY | ACH | | | | |
| | APPROVED BY | LHR | | | | |
| | ISSUE DATE | JANUARY 2024 | | | | |
| | PROJECT NUMBER | 261722-04-001 | | | | |
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DIVISION A - ELEVATED WATER STORAGE TANK

TIPTON MUNICIPAL UTILITIES
TIPTON, INDIANA

EROSION CONTROL DETAILS

SHEET NO.

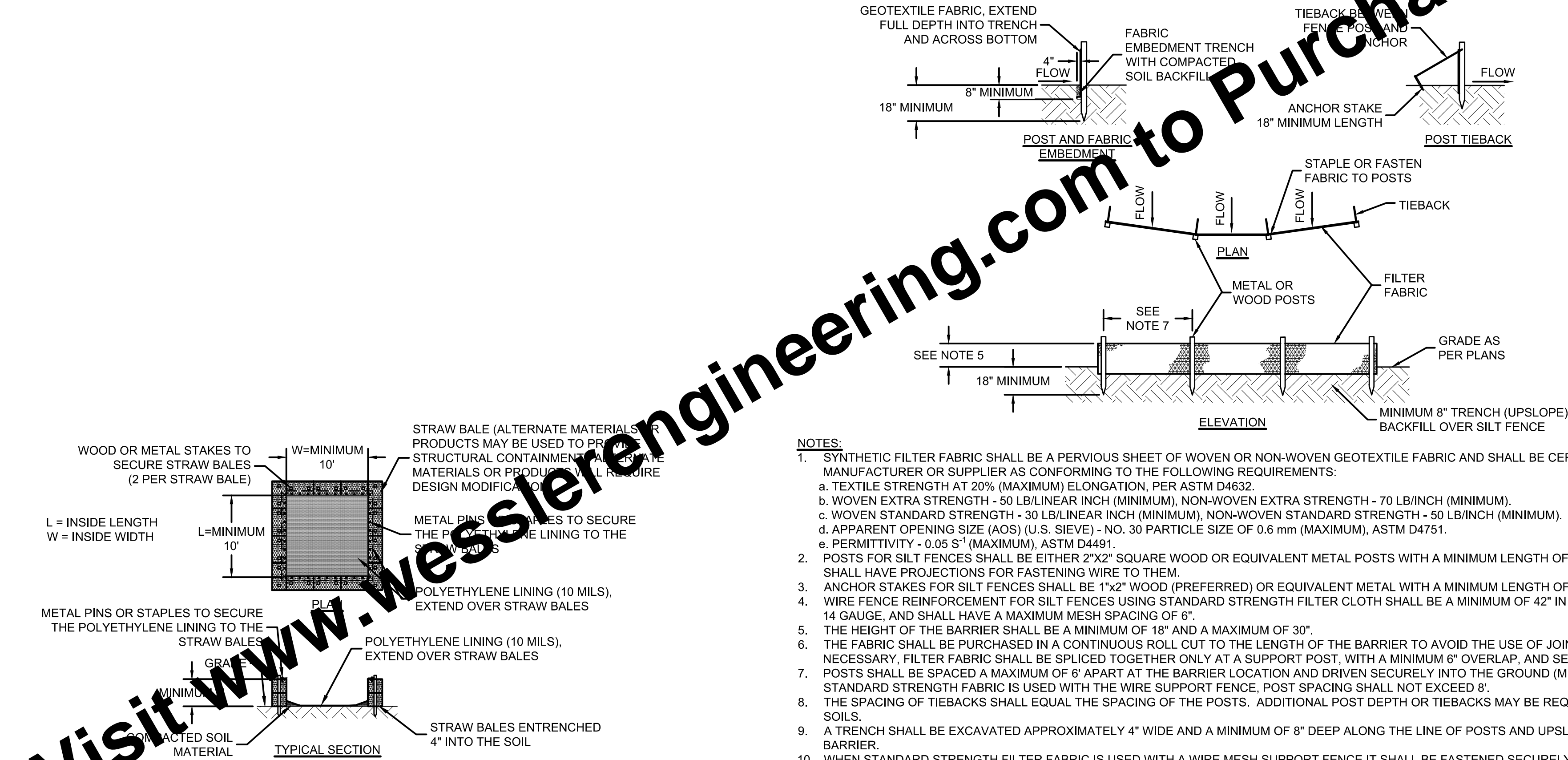
10

TOTAL SHEETS

13

Drawing: X:\Tipton\261722 Tipton West Water & Sewer Improv\DWG\Sheets\Div A - Tower\EROSION CONTROL DETAILS.dwg | Layout: 11 EROSION CONTROL DETAILS | Plotted: 01/23/24 @ 12:52:19 | LastSavedBy: CurtisG

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NOTES:
1. LOCATE WASHOUTS AT LEAST 50' FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES, OR STORM DRAIN/CONVEYANCES.




WASHOUT PROCEDURES:
1. DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER POURING CONCRETE. MAKE EVERY EFFORT TO EMPTY THE CHUTE AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT FLOW TO AN AREA THAT IS TO BE PROTECTED.
2. SCRAPE AS MUCH MATERIAL FROM THE CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
3. STOP WASHING OUT IN AN AREA IF YOU OBSERVE WATER RUNNING OFF THE DESIGNATED AREA OR IF THE WATER IS NOT BEING CONTAINED WITHIN THE WASHOUT AREA.
4. DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE.
5. DO NOT USE ADDITIVES WITH WASH WATER.
6. DO NOT WASH OUT OR DRAIN WASTE WATERS TO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES OR STREETS.

MAINTENANCE:
1. MAINTENANCE REQUIREMENTS PROVIDED IN SPECIFICATIONS.

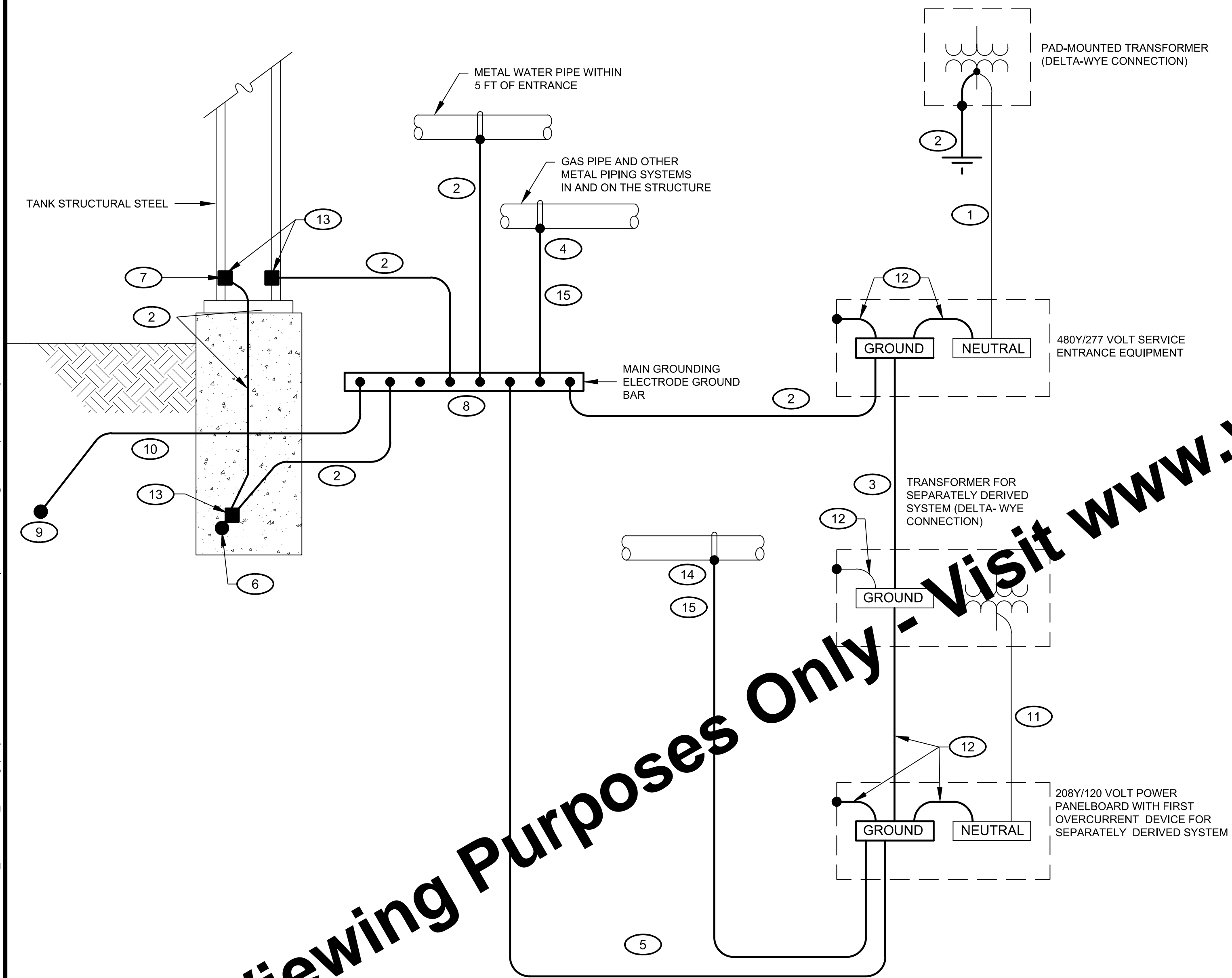
CONCRETE WASHOUT
SCALE: NONE

- NOTES:**
1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
 - a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632.
 - b. WOVEN EXTRA STRENGTH - 50 LB/LINEAR INCH (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/INCH (MINIMUM).
 - c. WOVEN STANDARD STRENGTH - 30 LB/LINEAR INCH (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/INCH (MINIMUM).
 - d. APPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), ASTM D4751.
 - e. PERMITTIVITY - 0.05 S⁻¹ (MAXIMUM), ASTM D4491.
 2. POSTS FOR SILT FENCES SHALL BE EITHER 2"x2" SQUARE WOOD OR EQUIVALENT METAL POSTS WITH A MINIMUM LENGTH OF 5'. METAL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
 3. ANCHOR STAKES FOR SILT FENCES SHALL BE 1"x2" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 18".
 4. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42" IN HEIGHT, A MINIMUM OF 14 GAUGE, AND SHALL HAVE A MAXIMUM MESH SPACING OF 6".
 5. THE HEIGHT OF THE BARRIER SHALL BE A MINIMUM OF 18" AND A MAXIMUM OF 30".
 6. THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPliced TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALED.
 7. POSTS SHALL BE SPACED A MAXIMUM OF 6' APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 18"). WHEN STANDARD STRENGTH FABRIC IS USED WITH THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 8'.
 8. THE SPACING OF TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED IN UNSTABLE SOILS.
 9. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND A MINIMUM OF 8" DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
 10. WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE IT SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1" WIRE STAPLES, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.
 11. THE STANDARD STRENGTH FILTER FABRIC, WITHOUT A WIRE MESH SUPPORT FENCE, SHALL BE STAPLED OR WIRED TO THE FENCE, AND A MINIMUM 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE. DO NOT STAPLE FILTER FABRIC TO EXISTING TREES.
 12. WHEN EXTRA STRENGTH FILTER FABRIC OR BURLAP AND POST SPACING IS LESS THAN THE MAXIMUM SPECIFIED SPACING OF 6', THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED.
 13. BACKFILL THE TRENCH AND COMPACT THE SOIL OVER THE FILTER FABRIC.
 14. REMOVE SILT FENCES WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
 15. SILT FENCE SHALL NOT BE USED AS A DIVERSION AND SHALL NOT BE INSTALLED ACROSS A STREAM, CHANNEL, DITCH, SWALE, ETC.
- MAINTENANCE:**
1. INSPECT AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
 2. REPLACE OR REPAIR FABRIC IMMEDIATELY IF IT DECOMPOSES OR IS INEFFECTIVE.
 3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
 4. SPREAD ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED AND DRESS TO CONFORM WITH THE FINISHED GRADING.

SILT FENCE
SCALE: NONE

| | | | | | | | | | | | | |
|--|---|----------------|-----|-----|------|----------|-------------------------|---|--|---|----|-----------|
| | SCALE VERIFICATION | DRAWN BY | MRE | NO. | DATE | INITIALS | REVISION DESCRIPTIONS |  <div><p>WESSLER ENGINEERING <i>More than a Project™</i></p></div> | DIVISION A - ELEVATED WATER STORAGE TANK | | | SHEET NO. |
| | BAR IS ONE INCH LONG ON ORIGINAL DRAWING  | CHECKED BY | ACH | | | | | | | TIPTON MUNICIPAL UTILITIES TIPTON, INDIANA | 11 | |
| | | APPROVED BY | LHR | | | | | | | | | |
| | | ISSUE DATE | | | | | | | | | | |
| | | JANUARY 2024 | | | | | | | | | | |
| | | PROJECT NUMBER | | | | | | | | | | |
| | | 261722-04-001 | | | | | | | | | | |
| | | | | | | | EROSION CONTROL DETAILS | | TOTAL SHEETS 13 | | | |

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GROUND SYSTEM DIAGRAM
SCALE: NONE

KEYED NOTES

1. INSTALL GROUNDED (NEUTRAL) CONDUCTOR SAME SIZE AS THE LARGEST PHASE CONDUCTOR IF THE LINE-TO-NEUTRAL LOAD EXCEEDS 5% OF THE CONNECTED LOAD. IF NEUTRAL LOAD IS SMALLER, INSTALL THE NEC MINIMUM GROUNDED CONDUCTOR.
2. INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN 4 AWG.
3. INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
4. BOND TO GAS PIPE ON THE BUILDING SIDE OF THE GAS METER.
5. INSTALL GROUNDING ELECTRODE CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR SIZE.
6. INSTALL A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATE ELECTRODE IN THE BOTTOM ONE-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER OF THE FOLLOWING MATERIALS FOR THE ELECTRODE:

BARE COPPER CABLE NOT SMALLER THAN THE GROUNDING ELECTRODE CONDUCTOR REQUIRED BY THE NEC AND NOT SMALLER THAN 4 AWG.

BARE OR GALVANIZED REBARS THAT ARE MADE ELECTRICALLY CONTINUOUS USING COPPER JUMPERS NOT SMALLER THAN THE NEC REQUIRED GROUNDING ELECTRODE CONDUCTOR AND NOT SMALLER THAN 4 AWG. USE REINFORCING BARS NOT SMALLER THAN THE FOLLOWING BASED ON THE TOTAL LENGTH OF THE INTERCONNECTED AND PARALLELED REBARS:

| TOTAL LENGTH | MINIMUM REBAR SIZE |
|--------------|--------------------|
| 112 FT | 1 3/8" (#11 BAR) |
| 150 FT | 1" (#8 BAR) |
| 192 FT | 3/4" (#6 BAR) |
| 223 FT | 5/8" (#5 BAR) |
| 268 FT | 1/2" (#4 BAR) |

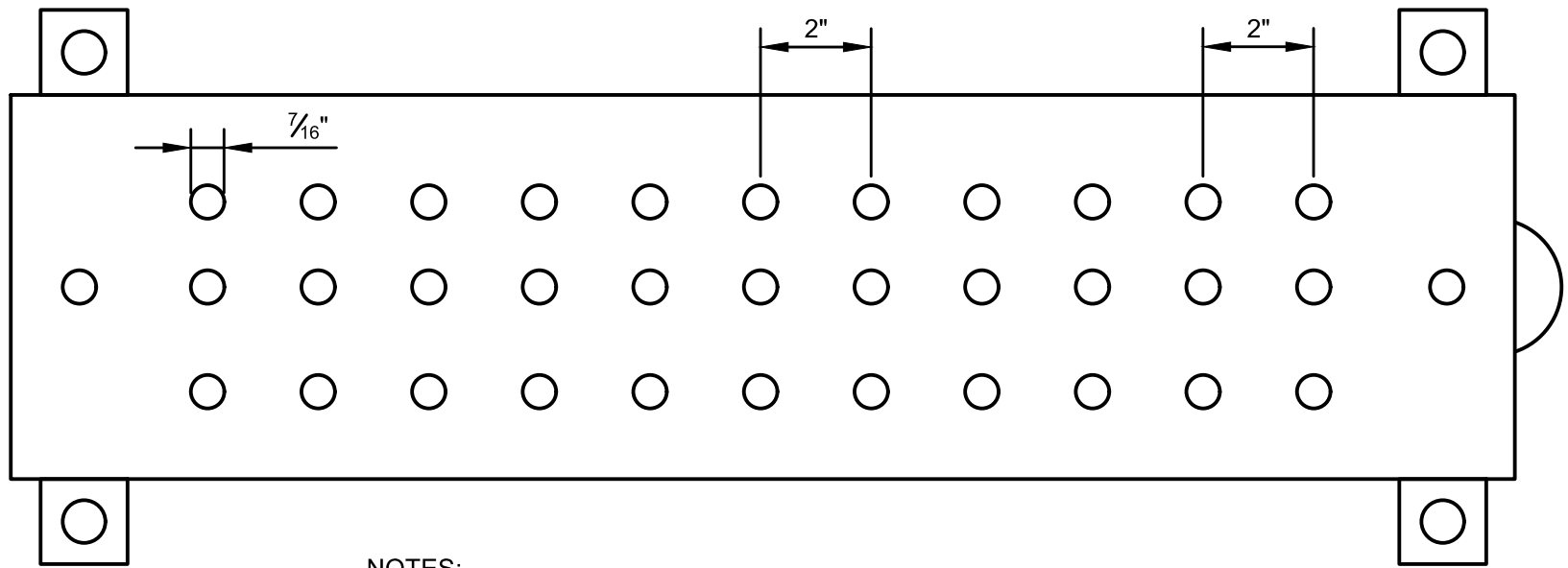
7. BOND EACH PERIMETER REBAR TO THE STEEL COLUMN TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE USING TWO-HOLE COMPRESSION CONNECTORS THAT MEET IEEE 837 REQUIREMENTS. USE EXOTHERMIC WELDS.
8. INSTALL A "GROUND ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE AND VISIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.
9. LIGHTNING PROTECTION GROUNDING COUNTERPOISE - 4/0 AWG COPPER.
10. BOND THE LIGHTNING PROTECTION SYSTEM GROUNDING COUNTERPOISE TO THE MAIN GROUND ELECTRODE GROUND BAR. USE 4/0 AWG COPPER CABLE WITH 600 VOLT INSULATION. AT THE UNDERGROUND CONNECTION USE A COMPRESSION CONNECTOR THAT MEETS IEEE 837 REQUIREMENTS OR USE AN EXOTHERMIC WELD.

KEYED NOTES (CONTINUED)

11. INSTALL GROUNDED (NEUTRAL) CONDUCTOR THAT IS NOT LESS THAN THE PHASE CONDUCTOR AMPACITY. IF HIGH-HARMONICS ARE PRESENT MAKE NEUTRAL AMPACITY 200% OF THE PHASE CONDUCTOR.
12. INSTALL BONDING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE CONDUCTOR SIZE.
13. INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER-PROOF HARDWARE OR INSTALL EXOTHERMIC WELD.
14. BOND TO METAL PIPING SYSTEMS IN THE AREA SERVED BY THE SEPARATELY DERIVED SYSTEM.
15. INSTALL BONDING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE LARGEST SERVICE OR SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR.

GENERAL NOTES

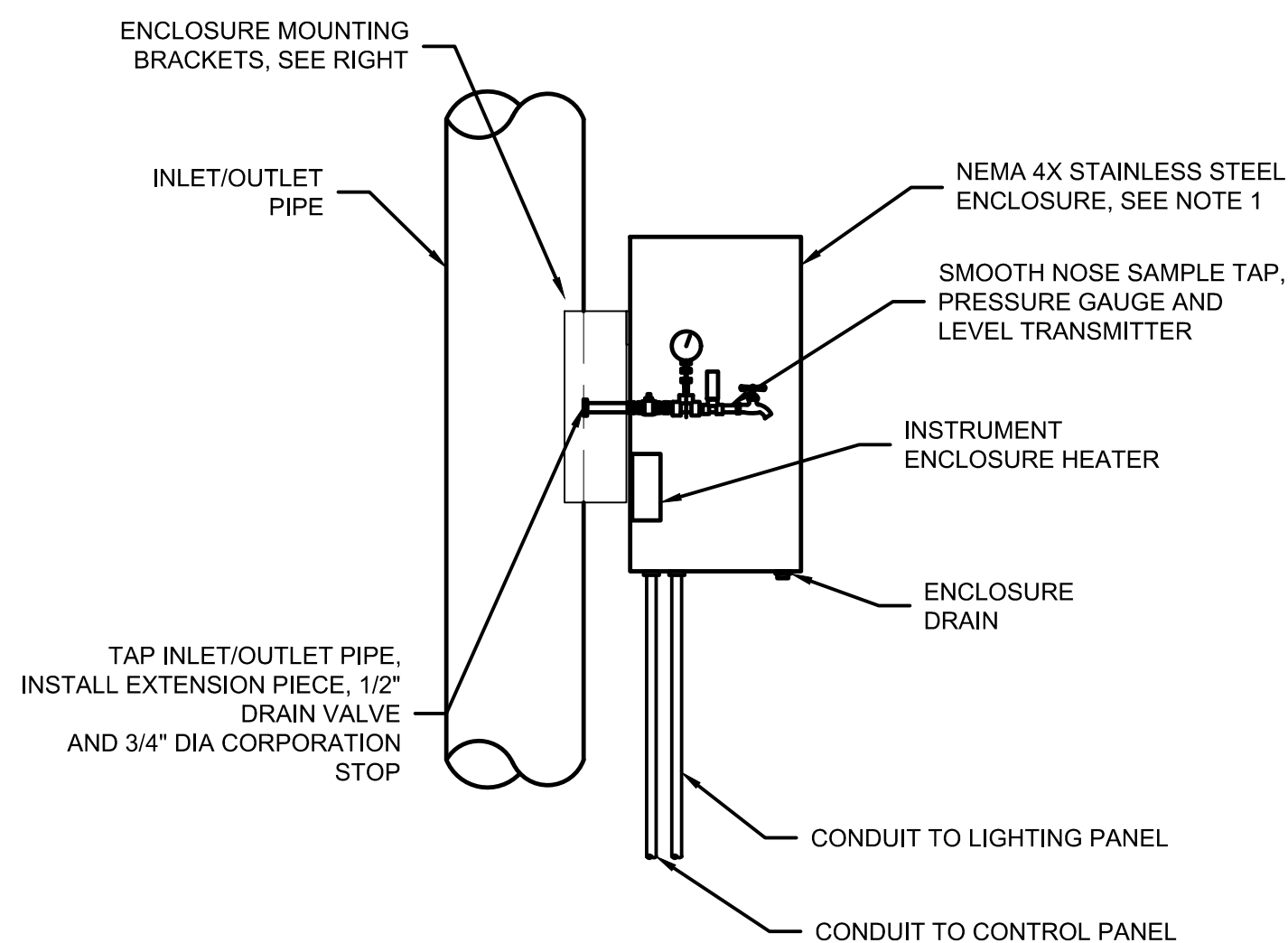
1. CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
2. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
3. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE.
4. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.
5. BOND HOT AND COLD WATER PIPING SYSTEMS.



- NOTES:
1. PROVIDE 1/4"DEEP X 4" HIGH X 2'-0" LONG COPPER GROUND BUS BAR WITH INSULATED WALL BRACKET ASSEMBLY, ERICO EGB-A-14-4-24-CC OR APPROVED EQUAL AS SPECIFIED. PRE DRILLED NEMA BOLT CONFIGURATION AS INDICATED. PROVIDE BRASS METAL NAME TAGS ON EACH GROUNDING CABLE INDICATING IDENTIFYING TAG OF EQUIPMENT BEING GROUNDED. TERMINATE GROUNDING CABLE WITH NEMA TWO-HOLE BOLTED LUG.
 2. REFER TO EQUIPMENT PLANS FOR GROUNDING CABLE SIZES, QUANTITIES AND EQUIPMENT DESCRIPTIONS.

GROUND BUS BAR DETAIL
SCALE: NONE

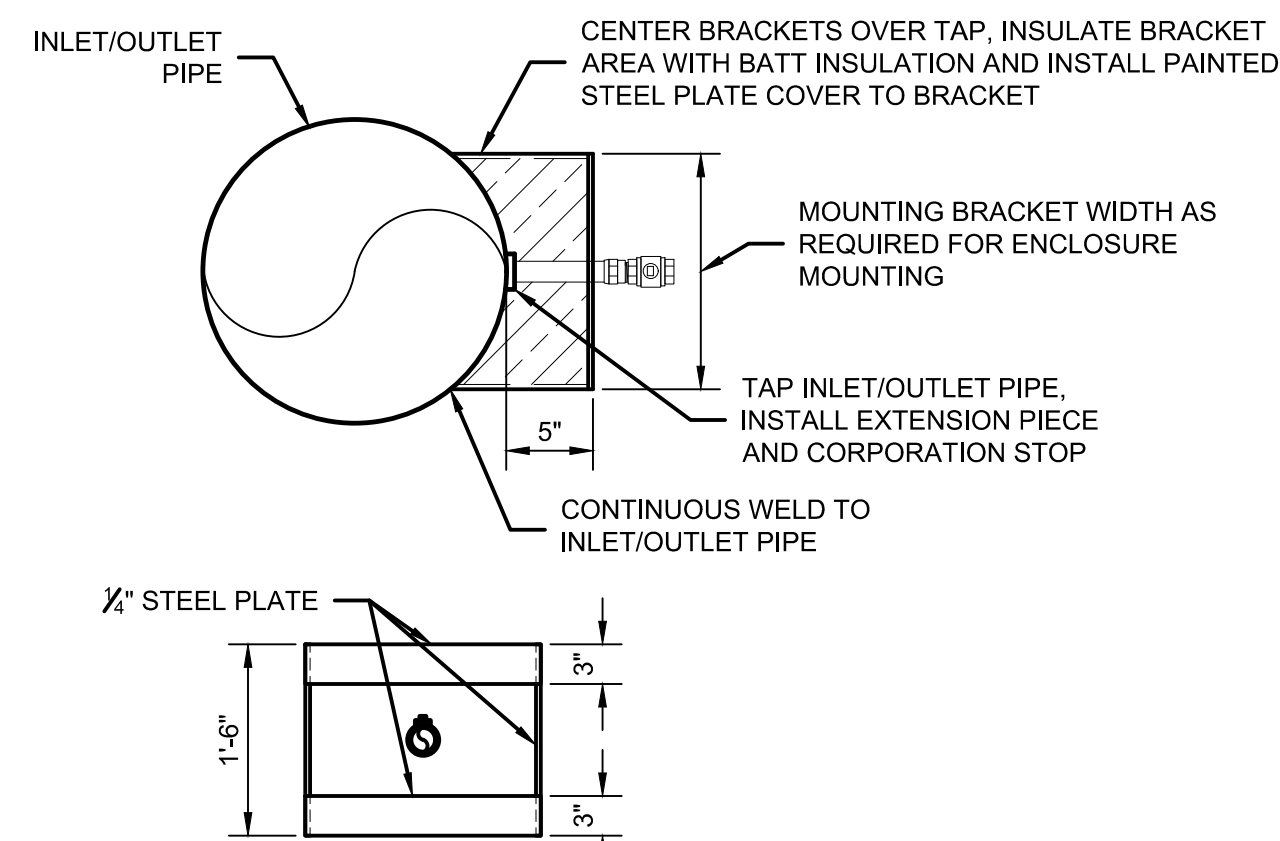
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| <div>SCALE VERIFICATION</div> <div>BAR IS ONE INCH LONG ON ORIGINAL DRAWING</div> <div><div></div></div> | <div>DRAWN BY</div> <div>MLW</div> | <div>NO.</div> <div></div> | <div>DATE</div> <div></div> | <div>INITIALS</div> <div></div> | <div>REVISION DESCRIPTIONS</div> <div></div> | <div><div><div>REGISTERED</div><div>PROFESSIONAL ENGINEER</div><div>STATE OF INDIANA</div><div>01/23/2024</div></div><div>WAYNE C. MOORE</div><div>No. 10707476</div><div>WESSLER ENGINEERING</div><div>More than a Project™</div></div> | <div>DIVISION A - ELEVATED WATER STORAGE TANK</div> | | | <div>SHEET NO.</div> <div>12</div> |
| | <div>CHECKED BY</div> <div>MLW</div> | <div></div> <div></div> | <div></div> <div></div> | <div></div> <div></div> | <div></div> <div></div> | | <div>TIPTON MUNICIPAL UTILITIES</div> <div>TIPTON, INDIANA</div> | <div>TOTAL SHEETS</div> <div>13</div> | | |
| | <div>APPROVED BY</div> <div>WCM</div> | <div></div> <div></div> | <div></div> <div></div> | <div></div> <div></div> | <div></div> <div></div> | | <div>TANK GROUNDING DIAGRAM</div> | | | |
| | <div>ISSUE DATE</div> <div>JANUARY 2024</div> | <div></div> <div></div> | <div></div> <div></div> | <div></div> <div></div> | <div></div> <div></div> | | | | | |
| | <div>PROJECT NUMBER</div> <div>261722-04-001</div> | <div></div> <div></div> | <div></div> <div></div> | <div></div> <div></div> | <div></div> <div></div> | | | | | |
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ELEVATED STORAGE TANK LEVEL TRANSMITTER MOUNTING

NOTE:

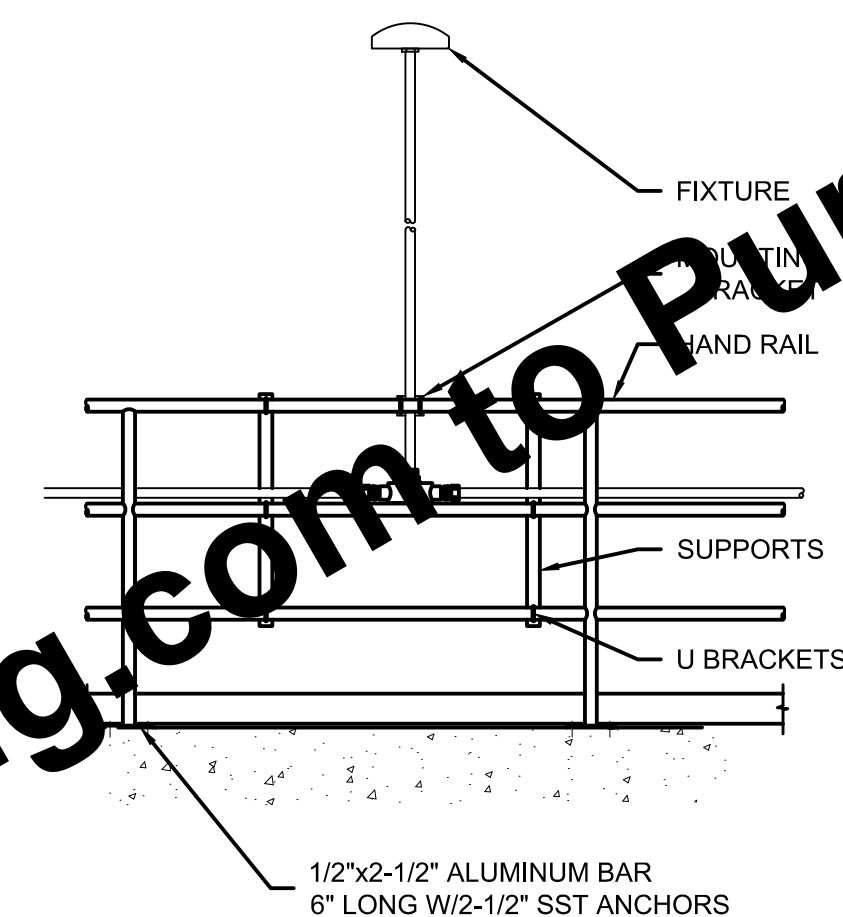
1. LEVEL TRANSMITTER SHALL BE MOUNTED IN A NEMA 4X STAINLESS STEEL INSULATED ENCLOSURE WITH A PANEL HEATER WITH INTEGRAL THERMOSTAT TO MAINTAIN A TEMPERATURE OF 50 DEGREES F. PANEL SHALL BE 30"W X 30"T X 16"D.



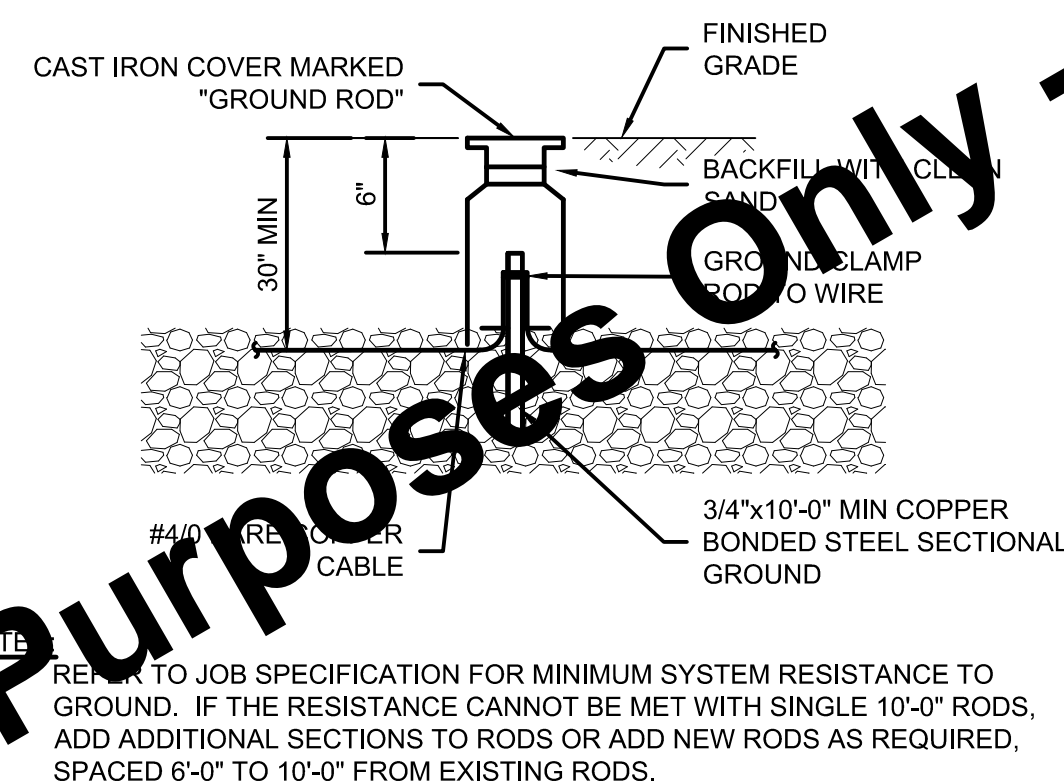
ELEVATED STORAGE TANK
LEVEL TRANSMITTER "INSTRUMENT ENCLOSURE
MOUNTING BRACKET

NOTE:

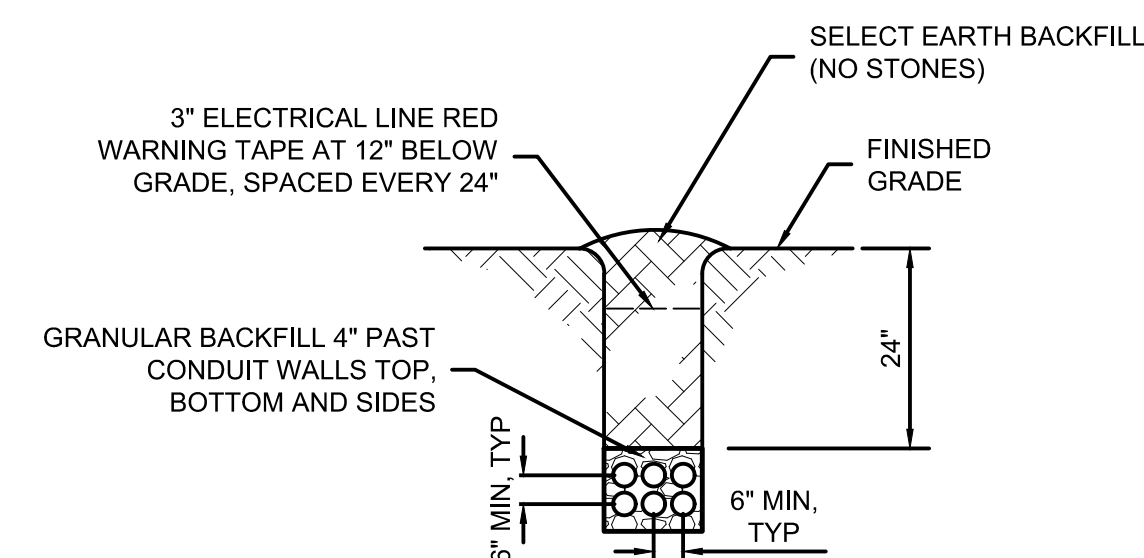
1. FIELD LOCATE MOUNTING BRACKETS WITH ENGINEER PRIOR TO INSTALLATION.



HANDRAIL MOUNTED POLE LIGHT

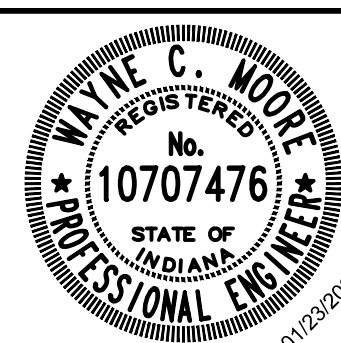


ELECTRICAL INSTALLATION
AND GROUND ROD ASSEMBLY
SCALE: NONE



CONDUIT TRENCH
SCALE: NONE

| | | | | | | |
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| SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING <div style="background-color: black; width: 100px; height: 15px; margin: 5px 0;"></div> | DRAWN BY | MLW | NO. | DATE | INITIALS | REVISION DESCRIPTIONS |
| | CHECKED BY | MLW | | | | |
| | APPROVED BY | WCM | | | | |
| | ISSUE DATE | | | | | |
| | JANUARY 2024 | | | | | |
| | PROJECT NUMBER | | | | | |
| | 261722-04-001 | | | | | |



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DIVISION A - ELEVATED WATER STORAGE TANK

TIPTON MUNICIPAL UTILITIES
TIPTON, INDIANA

ELECTRICAL DETAILS

SHEET NO.

13

TOTAL SHEETS

13