9. PUBLIC ENGINEER: SERVICE.

THEIR EXISTING MAINS SHALL BE SHOWN IMMEDIATELY.

THEIR EXISTING SEWERS SHALL BE SHOWN IMMEDIATELY.

COORDINATE FINE GRADING WITH THE ENGINEER.

THEIR EXISTING SEWER FACILITIES SHALL BE SHOWN IMMEDIATELY.

WHERE EXISTING SEWER FACILITIES ARE LOCATED OR ON-SITE EXISTING SEWER FACILITIES ARE TO BE EXPANDING WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL BE ADVISED.

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CONTRACTOR TO TEMPORARILY REMOVE ALL WATER MAINS AND FORCE MAINS FROM THE PROPOSED NEW SEWERS AND FORCE MAINS TO BE INSTALLED. CONTRACTOR TO COORDINATE ANY TEMPORARY UTILITY SHUTOFFS WITH PROPERTY OWNERS.

NOTES:
1. CONTRACTOR SHALL COORDINATE ANY TEMPORARY UTILITY SHUTOFFS WITH PROPERTY OWNERS.

2. CONTRACTOR TO INSTALL NEW SEWER SERVICES AND CONNECT TO EXISTING SERVICES AT THE END OF THE MAINLINE TRENCH UNTIL OTHERWISE DIRECTED BY THE ENGINEER.

3. CONTRACTOR TO INSTALL NON-SKID PAD (TYP.) FOR WATER SERVICES, CONTRACTOR WILL COORDINATE WITH WATER UTILITY. PROVIDE DOUBLE LAYER OF INSULATION WHERE DEPTH OF COVER IS 5 FT OR LESS. REFER TO CIVIL DETAILS.

4. CONTRACTOR TO FIELD VERIFY INVERT DEPTHS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

5. CONTRACTOR TO COORDINATE ANY TEMPORARY UTILITY SHUTOFFS WITH PROPERTY OWNERS.
NOTE:
1. IF PAVEMENT IS A COMPACT BETWEEN EXISTING WATER SERVICE AND NEW SANITARY SEWER, THE WATER SERVICE SHALL BE EXCAVATED.
2. FOR WATER SERVICES, CONTRACTOR WILL COORDINATE WITH WATER UTILITY TO PROVIDE 3 FOOT MINIMUM CLEARANCE BETWEEN WATER AND FORCE MAIN OF ALL WATER SERVICES EXISTING. REFER TO CIVIL DETAILS FOR WATER MAIN SPACING.
3. CONTRACTOR SHALL COORDINATE ANY TEMPORARY UTILITY SHUTOFFS WITH PROPERTY OWNERS.
4. PROVIDE COST-REASONABLE PRECAST CURB AND GUTTER SECTIONS AS REQUIRED. REFER TO CIVIL DETAILS FOR CURB AND GUTTER SPACING.
5. CONTRACTOR SHALL INSTALL NEW SEWER SERVICES AND CONNECT TO EXISTING SERVICES AT THE PROPERTY LINE OR PROPERTY LINE TO PROPERTY LINE.
6. CONTRACTOR SHALL INSTALL NEW FORCE MAINS AND CONNECT TO EXISTING SERVICES AT THE PROPERTY LINE OR PROPERTY LINE TO PROPERTY LINE.

NOTES:
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6.

PROVIDE FLOWABLE FILL (TYP).

PROVIDE 2' RIGID INSULATION ABOVE ALL NEW SEWERS AND FORCE MAIN WHERE DEPTH OF COVER IS 5 FT FOR WATER SERVICES, CONTRACTOR WILL COORDINATE WITH WATER UTILITY. PROVIDE 1-FOOT MINIMUM CONCRETE SLAB ABOVE ALL NEW SEWERS AND FORCE MAIN WHERE DEPTH OF COVER IS 5 FT.

CONTRACTOR SHALL INSTALL NEW SEWER SERVICES AND CONNECT TO EXISTING SERVICES AT THE PROPERTY LINE OR PROPERTY LINE TO PROPERTY LINE.

CONTRACTOR SHALL COORDINATE ANY TEMPORARY UTILITY SHUTOFFS WITH PROPERTY OWNERS.

PROVIDE FLOWABLE FILL (TYP).

3. 4.
5.
6.

NOTE:
1. IF PAVEMENT IS A COMPACT BETWEEN EXISTING WATER SERVICE AND NEW SANITARY SEWER, THE WATER SERVICE SHALL BE EXCAVATED.
2. FOR WATER SERVICES, CONTRACTOR WILL COORDINATE WITH WATER UTILITY TO PROVIDE 3 FOOT MINIMUM CLEARANCE BETWEEN WATER AND FORCE MAIN OF ALL WATER SERVICES EXISTING. REFER TO CIVIL DETAILS FOR WATER MAIN SPACING.
3. CONTRACTOR SHALL COORDINATE ANY TEMPORARY UTILITY SHUTOFFS WITH PROPERTY OWNERS.
4. PROVIDE COST-REASONABLE PRECAST CURB AND GUTTER SECTIONS AS REQUIRED. REFER TO CIVIL DETAILS FOR CURB AND GUTTER SPACING.
5. CONTRACTOR SHALL INSTALL NEW SEWER SERVICES AND CONNECT TO EXISTING SERVICES AT THE PROPERTY LINE OR PROPERTY LINE TO PROPERTY LINE.
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NOTE:
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2. FOR WATER SERVICES, CONTRACTOR WILL COORDINATE WITH WATER UTILITY TO PROVIDE 3 FOOT MINIMUM CLEARANCE BETWEEN WATER AND FORCE MAIN OF ALL WATER SERVICES EXISTING. REFER TO CIVIL DETAILS FOR WATER MAIN SPACING.
3. CONTRACTOR SHALL COORDINATE ANY TEMPORARY UTILITY SHUTOFFS WITH PROPERTY OWNERS.
4. PROVIDE COST-REASONABLE PRECAST CURB AND GUTTER SECTIONS AS REQUIRED. REFER TO CIVIL DETAILS FOR CURB AND GUTTER SPACING.
5. CONTRACTOR SHALL INSTALL NEW SEWER SERVICES AND CONNECT TO EXISTING SERVICES AT THE PROPERTY LINE OR PROPERTY LINE TO PROPERTY LINE.
6. CONTRACTOR SHALL INSTALL NEW FORCE MAINS AND CONNECT TO EXISTING SERVICES AT THE PROPERTY LINE OR PROPERTY LINE TO PROPERTY LINE.

NOTE:
1. IF PAVEMENT IS A COMPACT BETWEEN EXISTING WATER SERVICE AND NEW SANITARY SEWER, THE WATER SERVICE SHALL BE EXCAVATED.
2. FOR WATER SERVICES, CONTRACTOR WILL COORDINATE WITH WATER UTILITY TO PROVIDE 3 FOOT MINIMUM CLEARANCE BETWEEN WATER AND FORCE MAIN OF ALL WATER SERVICES EXISTING. REFER TO CIVIL DETAILS FOR WATER MAIN SPACING.
3. CONTRACTOR SHALL COORDINATE ANY TEMPORARY UTILITY SHUTOFFS WITH PROPERTY OWNERS.
4. PROVIDE COST-REASONABLE PRECAST CURB AND GUTTER SECTIONS AS REQUIRED. REFER TO CIVIL DETAILS FOR CURB AND GUTTER SPACING.
5. CONTRACTOR SHALL INSTALL NEW SEWER SERVICES AND CONNECT TO EXISTING SERVICES AT THE PROPERTY LINE OR PROPERTY LINE TO PROPERTY LINE.
6. CONTRACTOR SHALL INSTALL NEW FORCE MAINS AND CONNECT TO EXISTING SERVICES AT THE PROPERTY LINE OR PROPERTY LINE TO PROPERTY LINE.

NOTE:
1. IF PAVEMENT IS A COMPACT BETWEEN EXISTING WATER SERVICE AND NEW SANITARY SEWER, THE WATER SERVICE SHALL BE EXCAVATED.
2. FOR WATER SERVICES, CONTRACTOR WILL COORDINATE WITH WATER UTILITY TO PROVIDE 3 FOOT MINIMUM CLEARANCE BETWEEN WATER AND FORCE MAIN OF ALL WATER SERVICES EXISTING. REFER TO CIVIL DETAILS FOR WATER MAIN SPACING.
3. CONTRACTOR SHALL COORDINATE ANY TEMPORARY UTILITY SHUTOFFS WITH PROPERTY OWNERS.
4. PROVIDE COST-REASONABLE PRECAST CURB AND GUTTER SECTIONS AS REQUIRED. REFER TO CIVIL DETAILS FOR CURB AND GUTTER SPACING.
5. CONTRACTOR SHALL INSTALL NEW SEWER SERVICES AND CONNECT TO EXISTING SERVICES AT THE PROPERTY LINE OR PROPERTY LINE TO PROPERTY LINE.
6. CONTRACTOR SHALL INSTALL NEW FORCE MAINS AND CONNECT TO EXISTING SERVICES AT THE PROPERTY LINE OR PROPERTY LINE TO PROPERTY LINE.
NOTES:
1. THERE IS A CONFLICT BETWEEN EXISTING WATER SERVICE AND NEW SANITARY SEWER. THE WATER SERVICE SHALL BE RELOCATED.
2. FOR WATER SERVICES, CONTRACTOR SHALL COORDINATE WITH WATER UTILITY. PROVIDE LID/DET Replies VERTICAL SPACING BETWEEN SEWER OR DRAIN MAN HOLE AND ALL WATER SERVICE EXCAVATIONS. REFER TO CIVIL DETAILS FOR WATER MAIN SPACING.
3. CONTRACTOR SHALL COORDINATE ANY PERMANENT UTILITY SHUTOFFS WITH PROPERTY OWNERS.
4. PROVIDE 2" BRICK INSCRIPTION ABOVE ALL MANHOLE COVER AND MARK WHERE DEPTH OF COVER IS 6" LT OR LT, REFER TO CIVIL DETAILS.
5. CONTRACTOR SHALL PRODUCE WRITING DEPTH AND MARK ANY DISCREPANCIES TO THE ENGINEER.
6. CONTRACTOR SHALL INSTALL NEW SEWER SERVICES AND CONNECT TO EXISTING SERVICES AT THE PROPERTY LINE AND CONNECT TO BRICKING DETAILS.

DESIGNED:
CAD:
APPROVED:
SUBMISSION: 2/11/2022
1. **NOTES:**

4. **FOR WATER SERVICES, CONTRACTOR WILL COORDINATE WITH WATER UTILITY. PROVIDE IF THERE IS A CONFLICT BETWEEN EXISTING WATER SERVICE AND NEW SANITARY SEWER, CONTRACTOR SHALL INSTALL NEW SEWER SERVICES AND CONNECT TO EXISTING SERVICES AT CONTRACTOR SHALL FIELD VERIFY INVERT DEPTHS AND REPORT ANY DISCREPANCIES TO THE SERVICE CROSSINGS. REFER TO CIVIL DETAILS FOR WATER MAIN SPACING. THE WATER SERVICE SHALL BE RELOCATED.

2. **WATER MAIN AS NEEDED DURING EXTEND SS SERVICE TO NEW MAIN**

3. **CULVERT REPLACEMENT**

5. **STOCKADE FENCE**

6. **APPROX SAN SERVICE**

7. **APPROX SAN SERVICE**
NOTES:
1. IF THERE IS A CONFLICT BETWEEN EXISTING WATER SERVICE AND NEW SANITARY SEWER, THE WATER SERVICE SHALL BE DISCONNECTED.
2. THE CONTRACTOR SHALL COORDINATE WITH WATER UTILITY PROVIDE 2' INSULATION AROUND EXISTING WATER SERVICE FROM BASE OF ALL WATER SERVICE CROSSINGS, REFER TO CIVIL DETAILS FOR WATER MAIN SPACING.
3. PROVIDE 2' RIGID INSULATION ABOVE ALL NEW SEWERS AND FORCE MAIN WHERE DEPTH OF COVER IS 1 FT OR LESS. REFER TO CIVIL DETAILS.
4. IF THERE IS A CONFLICT BETWEEN EXISTING WATER SERVICE AND NEW SANITARY SEWER, CONTRACTOR SHALL INSTALL NEW SEWER SERVICES AND CONNECT TO EXISTING SERVICES AT THE PROPERTY LINE AND RECONNECT TO EXISTING SERVICE.
5. CONTRACTOR SHALL FIELD VERIFY INVERT DEPTHS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
6. CONTRACTOR SHALL INSTALL NEW WATER SERVICES AND CONSTRUCT TO WATER SERVICES AT THE PROPERTY LINE AND RECONNECT TO EXISTING SERVICES.
1. GENERAL NOTES:

- REPLACEMENT WITH WATER UTILITY. NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL COORDINATE THRUST BLOCKING OF EXISTING WATER MAIN SI AN APPROPRIATE TIME.

- LANDSCAPING TO THE SATISFACTION OF THE PROPERTY OWNER.

- REFER TO CIVIL DETAILS FOR WATER MAIN SPACING.

- FOR WATER SERVICES, CONTRACTOR WILL COORDINATE WITH WATER UTILITY. PROVIDE 1-FOOT CLEARANCE FROM PROPERTY LINE. ACTUALLY REQUIRED TO VERIFY LOCATION OF EXISTING FM AND SEWER. CONTRACTOR TO TAKE CARE TO AVOID DISTURBING WATER MAIN THRUST BLOCKING AT HYDRANT.

- CONTRACTOR TO COORDINATE UTILITY SERVICE CROSSINGS WITH PROPERTY OWNERS.

- CONTRACTOR SHALL TAKE CARE TO AVOID DISTURBING WATER MAIN THRUST BLOCKING AT HYDRANT. CONTRACTOR TO INSTALL NEW FM WITH DETENTION BASIN.

- CONTRACTOR SHALL INSTALL SEWER SERVICE LOCATION IS APPROXIMATE EXISTING GRADE.

- SCALE: 1"=40' PLAN AND PROFILE

- APPROPRIATE TIME SINCE WATER MAIN REPLACEMENT WITH WATER UTILITY.

- CONTRACTOR SHALL INSTALL SEWER SERVICE LOCATION IS APPROXIMATE EXISTING GRADE.

- APPROPRIATE TIME SINCE WATER MAIN REPLACEMENT WITH WATER UTILITY.

- CONTRACTOR SHALL INSTALL SEWER SERVICE LOCATION IS APPROXIMATE EXISTING GRADE.

- APPROPRIATE TIME SINCE WATER MAIN REPLACEMENT WITH WATER UTILITY.
5. CONSTRUCTION CAUTION: DURING EXCAVATION, TAKE EXTRA CAUTION TO EXPOSE UNDERGROUND ELECTRICAL, GAS, WATER, OR SEWER LINES OR OTHER UTILITY LINES. CONTRACTOR IS TO WORK WITH WATER UTILITY. CONTRACTOR TO SUPPORT CULVERTS (TYP) UNLESS SPECIFIED OTHERWISE. CONTRACTOR TO SUPPORT CULVERTS (TYP) UNLESS SPECIFIED OTHERWISE.

6. CONTRACTOR TO ADD A MINIMUM 3'-0" HIGH ROUND CURB STRUCTURE AT ALL WATER SERVICE CROSSINGS, WITH ONE DETAIL FOR WATER MAIN BREAKS.

7. CONTRACTOR TO ADD A MINIMUM 3'-0" HIGH ROUND CURB STRUCTURE AT ALL WATER SERVICE CROSSINGS, WITH ONE DETAIL FOR WATER MAIN BREAKS.

8. CONTRACTOR TO ADD A MINIMUM 3'-0" HIGH ROUND CURB STRUCTURE AT ALL WATER SERVICE CROSSINGS, WITH ONE DETAIL FOR WATER MAIN BREAKS.

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16. CONTRACTOR TO ADD A MINIMUM 3'-0" HIGH ROUND CURB STRUCTURE AT ALL WATER SERVICE CROSSINGS, WITH ONE DETAIL FOR WATER MAIN BREAKS.

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18. CONTRACTOR TO ADD A MINIMUM 3'-0" HIGH ROUND CURB STRUCTURE AT ALL WATER SERVICE CROSSINGS, WITH ONE DETAIL FOR WATER MAIN BREAKS.

19. CONTRACTOR TO ADD A MINIMUM 3'-0" HIGH ROUND CURB STRUCTURE AT ALL WATER SERVICE CROSSINGS, WITH ONE DETAIL FOR WATER MAIN BREAKS.

20. CONTRACTOR TO ADD A MINIMUM 3'-0" HIGH ROUND CURB STRUCTURE AT ALL WATER SERVICE CROSSINGS, WITH ONE DETAIL FOR WATER MAIN BREAKS.
2. REFER TO CIVIL DETAILS FOR WATER MAIN SPACING.
3. MINIMUM VERTICAL SPACING BETWEEN SEWER OR FORCE MAIN AT ALL WATER SERVICE CROSSINGS.
4. FOR WATER SERVICES, CONTRACTOR WILL COORDINATE WITH WATER UTILITY. PROVIDE 1-FOOT EXERCISE EXTREME CAUTION DURING EXCAVATION ADJACENT TO UNDERGROUND ELECTRICAL CONDUCTORS.
5. CONTRACTOR SHALL RESTORE ANY TEMPORARILY REMOVED MAILBOXES, YARD LIGHTS AND CONDUITS. COORDINATE WITH WOODLANDS PERSONNEL.
6. CONTRACTOR TO COORDINATE UTILITY SERVICE CROSSINGS WITH PROPERTY OWNERS.
7. REMOVE AND REPLACE IRIGATION WATER LINES AS NECESSARY. CONNECT TO EXISTING UTILITY MAIN WITH FITTINGS AND ADAPTERS AS NECESSARY. COORDINATE WITH WOODLANDS PERSONNEL.
GENERAL NOTES:
1. EXCAVATE STREET EARTHSIDES DURING EXCAVATION ALONG TO UNDERGROUND ELECTRICAL, GAS, AND TELEPHONE LINES. Contacts shall be made with public utilities and electrical current crossings with power utility. All underground electrical and communication lines shall be marked with a test pole prior to excavation.
2. FOR WATER SERVICES, CONTRACTOR WILL COORDINATE WITH WATER UTILITY. PROVIDE 3 FEET MINIMUM CLEARANCE BETWEEN A WATER MAIN AND A SEWER MAIN. PROVIDE 3 FEET MINIMUM CLEARANCE BETWEEN A WATER MAIN AND A FORCE MAIN. PROVIDE 3 FEET MINIMUM CLEARANCE BETWEEN A WATER SERVICE AND A SEWER OR FORCE MAIN AT ALL WATER SERVICE CROSSINGS. FOR WATER SERVICES, CONTRACTOR WILL COORDINATE WITH WATER UTILITY. PROVIDE 1-FOOT CLEARANCE BETWEEN A WATER SERVICE AND A SEWER OR FORCE MAIN. CONTRACTOR TO COORDINATE UTILITY SERVICE CROSSINGS WITH PROPERTY OWNERS.
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5. CONTRACTOR TO COORDINATE UTILITY SERVICE CROSSINGS WITH PROPERTY OWNERS.
6. CONTRACTOR TO COORDINATE UTILITY SERVICE CROSSINGS WITH PROPERTY OWNERS.
7. ALL WORK ON TOWN PROPERTY SHALL BE APPROVED BY THE TOWN. ALL COSTS ASSOCIATED WITH THE INSTALLATION OF WATER MAINS AND SEWER MAINS SHALL BE BURDENED BY THE TOWN.

PLAN AND PROFILE SCALES
VERTICAL: 1" = 40'
HORIZONTAL: 1" = 40'

DRAWING SHEET: C-13
PROJECT NO: 14070-D
CONTRACT DRAWINGS SUBMISSION: 207.725.8721 | www.wright-pierce.com

11 BOWDOIN MILL ISLAND, SUITE 140, TOPSHAM, ME 04086

PLAN SCALE: 1" = 40'
GENERAL NOTES:
1. EXCISE EXTREME CAUTION DURING EXCAVATION ADJACENT TO UNDERGROUND ELECTRICAL CONDUIT. COORDINATE WITH POWER UTILITY. SUPPORT CONDUIT AS NECESSARY.
2. COORDINATE UTILITY SERVICE CROSSINGS WITH PROPERTY OWNERS.
3. CONTRACTOR TO COORDINATE UTILITY SERVICE CROSSINGS WITH PROPERTY OWNERS.
4. CONTRACTOR SHALL RESTORE ANY TEMPORARILY REMOVED MAILBOXES, YARD LIGHTS AND LANDSCAPING TO THE SATISFACTION OF THE PROPERTY OWNER.
5. ALL GRANITE CURB ENCOUNTERED SHALL BE REMOVED AND RESET. ANY CURB DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

GENERAL NOTES:
1. EXCISE EXTREME CAUTION DURING EXCAVATION ADJACENT TO UNDERGROUND ELECTRICAL CONDUIT. COORDINATE WITH POWER UTILITY. SUPPORT CONDUIT AS NECESSARY.
2. COORDINATE UTILITY SERVICE CROSSINGS WITH PROPERTY OWNERS.
3. CONTRACTOR TO COORDINATE UTILITY SERVICE CROSSINGS WITH PROPERTY OWNERS.
4. CONTRACTOR SHALL RESTORE ANY TEMPORARILY REMOVED MAILBOXES, YARD LIGHTS AND LANDSCAPING TO THE SATISFACTION OF THE PROPERTY OWNER.
5. ALL GRANITE CURB ENCOUNTERED SHALL BE REMOVED AND RESET. ANY CURB DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
NOTES:
1. CONTRACTOR SHALL MAINTAIN BASE STREAM FLOW AT ALL TIMES.
2. CONTRACTOR SHALL LIMIT DISTURBANCE TO THE MAXIMUM EXTENT POSSIBLE.
3. LOCATION OF TEMPORARY EROSION CONTROL MEASURES PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO REVIEW EROSION CONTROL MEASURES WITH OWNER AND ENGINEER PRIOR TO IMPLEMENTATION.

SCALE: 1"=10'

APPROXIMATE LOCATION OF PROPOSED SEWER PIPE OR EXISTING WATER MAIN AS APPLICABLE

BACKFILL WITH SELECT FILL (SEE SPEC SECTION 02200)

SANITARY SEWER OR WATER MAIN (AS APPLICABLE)
CAP AND ABANDON EX 8" AC SEWER. PROVIDE FLOWABLE FILL.

FINAL TRENCH PAVING
MIDDLE RD CULVERT CROSSING

INSTRUMENT SCALE OF 1000' MEASURED

NOTES:
1. INITIAL TRENCH PAVING MAY BE USED AS THE BASE COURSE FOR FINAL PAVING IF IN GOOD REPAIR AND IF THE MINIMUM REQUIRED THICKNESS (MIN 2" OR MATCH EXISTING PAVEMENT, WHICHEVER IS GREATER).
2. 12" HOT MIX ASPHALT SURFACE (12.5 mm)
3. HOT MIX ASPHALT BASE (12.5 mm)
4. HOT MIX ASPHALT BASE (12.5 mm)
5. HOT MIX ASPHALT SURFACE (12.5 mm)
6. HOT MIX ASPHALT SURFACE (12.5 mm)

NOTES:
1. CONTRACTOR SHALL MAINTAIN BASE STREAM FLOW AT ALL TIMES.
2. CONTRACTOR SHALL LIMIT DISTURBANCE TO THE MAXIMUM EXTENT POSSIBLE.
3. LOCATION OF TEMPORARY EROSION CONTROL MEASURES PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO REVIEW EROSION CONTROL MEASURES WITH OWNER AND ENGINEER PRIOR TO IMPLEMENTATION.

SCALE: NTS
20' MIN
12" AGGREGATE BASE (MIN) OR MATCH EXISTING, WHICHEVER IS GREATER
SEE TYPICAL TRENCH DETAIL

NOTES:
1. INITIAL TRENCH PAVING MAY BE USED AS THE BASE COURSE FOR FINAL PAVING IF IN GOOD REPAIR AND IF THE MINIMUM REQUIRED THICKNESS (MIN 2" OR MATCH EXISTING PAVEMENT, WHICHEVER IS GREATER).

25' MIN
TRENCH

NOTES:
1. CONTRACTOR SHALL MAINTAIN BASE STREAM FLOW AT ALL TIMES.
2. CONTRACTOR SHALL LIMIT DISTURBANCE TO THE MAXIMUM EXTENT POSSIBLE.
3. LOCATION OF TEMPORARY EROSION CONTROL MEASURES PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO REVIEW EROSION CONTROL MEASURES WITH OWNER AND ENGINEER PRIOR TO IMPLEMENTATION.

SCALE: NTS
20' MIN
12" AGGREGATE BASE (MIN) OR MATCH EXISTING, WHICHEVER IS GREATER
SEE TYPICAL TRENCH DETAIL

NOTES:
1. INITIAL TRENCH PAVING MAY BE USED AS THE BASE COURSE FOR FINAL PAVING IF IN GOOD REPAIR AND IF THE MINIMUM REQUIRED THICKNESS (MIN 2" OR MATCH EXISTING PAVEMENT, WHICHEVER IS GREATER).
Section A

Section B

Erosion Control Mix Berm

Combination Silt Fence and Hay Bale Barrier

Silt Sack Catch Basin Inlet

Joining Silt Fence Sections

Silt Fence Installation Detail

Erosion Control Matting - Ditches

Stabilized Construction Entrance

Appendix C (6). Specifically, the Department’s approval does not authorize discharges of the following:

- Wastewater from the washout or cleanout of concrete, stucco, paint, form release oils, curing compounds, or similar materials;
- Undercarriage and transmission washing is prohibited); undercarr;
- Uncontaminated groundwater or spring water;
- Uncontaminated air conditioning or compressor condensate;
- Soils must be seeded with winter rye and protected with erosion control blanket if not yet stabilized.

All temporary erosion control measures shall be removed once the site is stabilized.

All areas that have been compacted with heavy equipment or have been cut into will be protected with erosion control blanket if not yet stabilized.

All disturbed areas to be protected with winter rye shall be applied at a rate of 3 lbs per 1000 sq ft. The minimum time required for the growth of vegetation shall be at least 15 days as outlined in the specifications.

All wetland vegetation layers shall be removed and salvaged for restoration of the disturbed areas.

Storage areas that may be contaminated shall be properly protected against spread.

Silt loads and erosion control measures shall be in place prior to commencing construction work or adjacent to wetland areas.

The application frequency for areas being worked on during winter construction shall be after each snow event, otherwise once a week. The Department’s approval does not authorize discharges of the following:

- Wastewater from the washout or cleanout of concrete, stucco, paint, form release oils, curing compounds, or similar materials;
- Undercarriage and transmission washing is prohibited; undercarr;
- Uncontaminated groundwater or spring water;
- Uncontaminated air conditioning or compressor condensate;
- All areas that have been compacted with heavy equipment or have been cut into will be protected with erosion control blanket if not yet stabilized.

All areas that have been compacted with heavy equipment or have been cut into will be protected with erosion control blanket if not yet stabilized.

All disturbed areas to be protected with winter rye shall be applied at a rate of 3 lbs per 1000 sq ft. The minimum time required for the growth of vegetation shall be at least 15 days as outlined in the specifications.

All silt loads and erosion control measures shall be in place prior to commencing construction work or adjacent to wetland areas.

The application frequency for areas being worked on during winter construction shall be after each snow event, otherwise once a week. The Department’s approval does not authorize discharges of the following:

- Wastewater from the washout or cleanout of concrete, stucco, paint, form release oils, curing compounds, or similar materials;
- Undercarriage and transmission washing is prohibited; undercarr;
- Uncontaminated groundwater or spring water;
- Uncontaminated air conditioning or compressor condensate;
- All areas that have been compacted with heavy equipment or have been cut into will be protected with erosion control blanket if not yet stabilized.

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- Uncontaminated groundwater or spring water;
- Uncontaminated air conditioning or compressor condensate;
- All areas that have been compacted with heavy equipment or have been cut into will be protected with erosion control blanket if not yet stabilized.

All areas that have been compacted with heavy equipment or have been cut into will be protected with erosion control blanket if not yet stabilized.

All disturbed areas to be protected with winter rye shall be applied at a rate of 3 lbs per 1000 sq ft. The minimum time required for the growth of vegetation shall be at least 15 days as outlined in the specifications.

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- Undercarriage and transmission washing is prohibited; undercarr;
- Uncontaminated groundwater or spring water;
- Uncontaminated air conditioning or compressor condensate;
- All areas that have been compacted with heavy equipment or have been cut into will be protected with erosion control blanket if not yet stabilized.

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All disturbed areas to be protected with winter rye shall be applied at a rate of 3 lbs per 1000 sq ft. The minimum time required for the growth of vegetation shall be at least 15 days as outlined in the specifications.

All silt loads and erosion control measures shall be in place prior to commencing construction work or adjacent to wetland areas.

The application frequency for areas being worked on during winter construction shall be after each snow event, otherwise once a week. The Department’s approval does not authorize discharges of the following:

- Wastewater from the washout or cleanout of concrete, stucco, paint, form release oils, curing compounds, or similar materials;
- Undercarriage and transmission washing is prohibited; undercarr;
- Uncontaminated groundwater or spring water;
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GENERAL NOTES

1. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL DEFINITIVE CONSTRUCTION PRIOR TO CONSTRUCTION.

2. "DEFINED" MEANS THAT THE GENERAL CONTRACTOR WILL ENSURE CONSTRUCTION.

3. ANY ISSUES NOT RESOLVED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

4. ANY ISSUES NOT RESOLVED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

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REINFORCEMENT AT ROUND OPENING

REINFORCEMENT STEEL AT SLAB CORNERS

EQUIPMENT PAD

TYPE 1 AND TYPE 2 COATINGS

COATING TERMINATION AT PIPE PénéTRATION

REINFORCEMENT STEEL FOR CONCRETE FILL

NOTES:
1. PROVIDE A MINIMUM OF 1" OF CONCRETE SURFACE REPAIR WORK IS IDENTIFIED AS BID ITEM NO. 4. NEW CONCRETE SURFACE IS APPROXIMATELY 1" ABOVE THE TOP OF EXISTING CONCRETE SURFACE.

2. PROVIDE ALL CONCRETE PUMPING HOSES TO BE USED TO PUMP CONCRETE TO SOUND CONCRETE. STOP ALL CONCRETE REMOVAL WHEN CONCRETE IS UNCOVERED.

3. PROVIDE A 1/2" DEEP PERIMETER SAWCUT AROUND THE ENTIRE AREA TO PROVIDE A MINIMUM OF TWO COATS ON THE STEEL REINFORCEMENT. THIS DETAIL IS TO BE USED FOR REPAIRS WHERE THE CONCRETE SURFACE AREA VARIES FROM SOUND TO NON-SOUND CONCRETE.

4. PROVIDE A MINIMUM OF TWO COATS ON THE STEEL REINFORCEMENT. THIS DETAIL IS TO BE USED FOR REPAIRS WHERE SURFACE DETERIORATION IS GREATER THAN 1 1/2" IN DEPTH TO SOUND CONCRETE. PROVIDE A PERIMETER SAWCUT OF 1/2" DEEP AROUND THE ENTIRE AREA TO PROVIDE A MINIMUM OF TWO COATS ON THE STEEL REINFORCEMENT.

5. PROVIDE A MINIMUM OF TWO COATS ON THE STEEL REINFORCEMENT. THIS DETAIL IS TO BE USED FOR REPAIRS WHERE SURFACE DETERIORATION IS GREATER THAN 1 1/2" IN DEPTH TO SOUND CONCRETE. PROVIDE A PERIMETER SAWCUT OF 1/2" DEEP AROUND THE ENTIRE AREA TO PROVIDE A MINIMUM OF TWO COATS ON THE STEEL REINFORCEMENT.

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CONSTRUCTION PIPING PENETRATION DETAILS

NOTES:
1. REFER TO SPECIFICATION SECTION 15092 FOR REQUIREMENTS AND INFORMATION.

2. WALL CASTING CONNECTION SHOWN IS FLG TO MJ. PROVIDE TYPE OF WALL CASTING AS REQUIRED TO SUPPORT PIPE BOTH VERTICALLY AND HORIZONTALLY.

3. TOP HOUSING

4. OIL FILLED SEAL

5. BALL VALVE

6. DIAPHRAGM

7. PRESSURE GAUGE ASSEMBLY

CONSTRUCTION WALL

SILVER OR CONCRETE WALL

LINE COMPRESSION SEAL "TYP"

OIL FILLED SEALS

"NIPPLES (TYP"

"BALL VALVE"

"NPT SNUBBER"

"FLUSH & TEST"

"PRESSURE GAUGE ASSEMBLY"

"TUBE"
EXISING PUMP STATION PLAN

EXISING PUMP STATION SECTION A-A

DEMONLITION NOTES:
1. REMOVE/CLEAR EXISING WET WELL CONCRETE SLAB INCLUDING NUTS.
2. REMOVE/CLEAR EXISING SEWER PIPE IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO PUMP, PUMP SUPPORT, PIPING, PIPING SUPPORT, ELECTRICAL, ELECTRICAL COMPONENTS, AND ALL ASSOCIATED MATERIALS.
3. REMOVE/CLEAR EXISING FOAM BASED SOLUTION.
4. REMOVE/CLEAR EXISING NUTS AND BOLTS INCLUDING BUT NOT LIMITED TO PUMPS WITHNO CONFLICT WITH HATCH. LOCATION SHALL BE SUBJECT TO PRIOR REVIEW AND ACCEPTANCE BY THE ENGINEER.

WET WELL

PUMP STATION MODIFICATION PLAN

NOTES:
1. REFER TO ELECTRICAL DRAWINGS.
2. REFER TO STRUCTURAL DRAWINGS.
3. REFER TO SITE PLAN.
4. REFER TO CIVIL DRAWINGS.
5. REFER TO CIVIL SITE PLAN.

SCALE: NTS
SCALE: NTS

WET WELL CONTROL ELEVATIONS

SEWER INV=30.80
8" PVC INFLUENT

TOP AT 2'-0" O.C., 6" EMBEDMENT
DOWEL SLAB TO WET WELL

4" PVC VENT

FLOOR SLAB AND FROST WALLS TO A DEPTH OF 1' BELOW GRADE REFER TO THE CIVIL DRAWINGS

REMOVE/DEMOLISH EXISTING CONTROL BUILDING IN ITS ENTIRETY INCLUDING BUILDING SUPERSTRUCTURE.

REMOVE/DEMOLISH EXISTING WET WELL CONCRETE FILLET TO THE LIMITS SHOWN.

DEMOLISH EXISTING FORCE MAIN TO THE EXTENTS SHOWN ON THE CIVIL DRAWINGS.

INSTRUMENTATION.

REMOVE/DEMOLISH EXISTING WET WELL CONCRETE TOP SLAB INCLUDING HATCH.

SUPPORTS, PIPING, PIPING SUPPORTS, ELECTRICAL, ASSOCIATED ELECTRICAL COMPONENTS, AND ALL EXISTING PUMP STATION PLAN

10'-0"X 14'-0"
EDGE OF SLAB

10'-0"X 14'-0"
SECURED TO CONCRETE

23"
22.25"
2'X 3' BILCO TYPE HATCH

EL. 19.50
EL. 20.00
EL. 28.50
EL. 35.50

8" HDPE UNDERDRAIN
6" GATE VALVE
4" CHECK VALVE
4" GATE VALVE

7" 4'-0"
36" X 36" HATCH

POWER AND CONTROL (REFER TO ELECTRICAL)

JUNCTION BOXES

HIGH-HIGH LEVEL FLOAT SWITCH
LOW-LOW LEVEL FLOAT SWITCH
ULTRASONIC SENSOR

PRECAST CONCRETE FILTER AS MANUFACTURED BY ORENCO, OR EQUIVALENT WITH SAFETY GRATING

4" VENT 3FT HIGH PROVIDE 4" CARBON ELECTRICAL CABLES COATING AS SPECIFIED, AND IN SURFACES AND APPLY CEMENTITOUS BID ALT-A ACCORDANCE WITH COATING

CONTRACTOR TO ENSURE AFTER REMOVING THE EXISTING WET WELL CONCRETE TOP AS NOTED ON THE DEMOLITION PLAN THAT THE BOTTOM OF WET WELL EL 20.00 CONCRETE IS FREE OF DEBRIS, CLEAN, AND ABLE TO BOND WITH A WATER TIGHT FIT TO THE NEW 10FT DIA TOP SLAB.

CONCRETE IS FREE OF DEBRIS, CLEAN, AND ABLE TO BOND WITH A WATER TIGHT FIT TO THE NEW 10FT DIA TOP SLAB.

ON THE UNDERSIDE OF THE HATCH SPRAY PAINT USING A STENCIL AND SAFETY YELLOW PAINT THE FOLLOWING:

"WARNING HAZARDOUS AREA, ENTER ONLY WITH PROPER EQUIPMENT".

"CONCRETE REPAIR NOTES ON STRUCTURAL DRAWINGS AND SECTION 03930."

CONTRACTOR TO ENSURE THAT ALL EXISTING WET WELL CONCRETE PIPING, SUPPORTS, SUPPORTING STRUCTURES, STANDARD AUTOMATION EQUIPMENT, ELECTRICAL, AND ELECTRICAL EQUIPMENT ARE REMOVED AND REMOVED FROM THE SITE.

IN PLAN STEM, SEE NOTE

VALVE EXTENSION

VALVE VAULT

SEE DETAIL

GAUGE ASSEMBLY TAP (TYP), SEE NOTE 4

VALVE VAULT

BRACE TO WALL (TYP), SEE NOTE 4

4" 45° BEND (TYP)

BRACING TO WALL (TYP)

M
1'-3"

10' DIA STRUCTURE

BOTTOM OF WET WELL
LOW LOW FLOAT SWITCH
LOW LEVEL ALARM

LAG PUMP OFF
LAG PUMP ON
HIGH LEVEL ALARM

LEAD PUMP ON
PUMP MAX SPEED
LAG PUMP OFF
PUMP MAX SPEED
LEAD PUMP ON

HIGH LEVEL ALARM

PUMP SHOWN BEING REMOVED FOR REFERENCE ONLY

VALVE VAULT

CONTRACTOR TO ENSURE THAT ALL EXISTING WET WELL CONCRETE PIPING, SUPPORTS, SUPPORTING STRUCTURES, STANDARD AUTOMATION EQUIPMENT, ELECTRICAL, AND ELECTRICAL EQUIPMENT ARE REMOVED AND REMOVED FROM THE SITE.

IN PLAN STEM, SEE NOTE

VALVE EXTENSION

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LAG PUMP OFF
PUMP MAX SPEED
LEAD PUMP ON

HIGH LEVEL ALARM

PUMP SHOWN BEING REMOVED FOR REFERENCE ONLY

VALVE VAULT

CONTRACTOR TO ENSURE THAT ALL EXISTING WET WELL CONCRETE PIPING, SUPPORTS, SUPPORTING STRUCTURES, STANDARD AUTOMATION EQUIPMENT, ELECTRICAL, AND ELECTRICAL EQUIPMENT ARE REMOVED AND REMOVED FROM THE SITE.
**ABBREVIATIONS LEGEND**

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**VALVES AND FITTINGS**

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**FIELD INSTRUMENTS**

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**TYPICAL INSTRUMENTATION SYMBOL**

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**TYPICAL SIGNAL CONVERTER SYMBOL**

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**NOTES:**

1. **NOTE TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.**
2. **PROCESS SIMILAR TO PROJECT/ASSIGNMENT PIPES OR OTHER EQUIPMENT DECORATIVE COATING.**
3. **REFERENCE PROCESS AND ELECTRICAL DESIGNER FOR LOCATION OF PANELS AND FIELD INSTRUMENTATION.**
4. **REPLACE Padlock with MOUNTABLE LOCKABLE.**
5. **CONTRACTOR TO PROVIDE COORDINATE HOLES FOR LOCKABLE PANELS.**
6. **ALL FLOOR MOUNTED CONDUIT PANELS SHALL BE INSTALLED ON 4" HIGH CONCRETE EQUIPMENT PADS.**
7. **MACHINES SHALL HAVE INPUT SIGNALS TO PLC AS REQUIRED, PROVIDE PROPER TYPE AND QUANTITY OF INPUT/OUTPUT MODULES (I/O).**
8. **CONTRACTOR TO COORDINATE THE TYPE OF ANALOG SIGNAL PROCESSED BY THE EQUIPMENT OR FIELD DEVICES WITH THE APPROPRIATE PLC FUC.**
9. **ALL ANALOG SIGNALS SHALL BE USED.**
10. **CONTRACTOR TO PROVIDE COORDINATE HOLES FOR LOCKABLE PANELS.**
11. **ALL LOCAL CONTROL SYSTEMS ARE PROCESSED BY SYSTEMS OTHER THAN STANDARD.**

**DRAWING**

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**APPROVED:**

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<td>Q. SNYDER</td>
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**DESIGNED:**

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<td>Q. SNYDER</td>
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**CAD:**

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<td>P. DENIS</td>
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**SUBMISSION:**

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<tbody>
<tr>
<td>02/2022</td>
<td>D. SAVAGE</td>
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This page contains an electrical schematic diagram with various symbols and notes. The diagram includes labeled components such as transformers, control panels, lights, switches, and conduits, among others. The notes provide details on the installation and use of these components, including specifications and instructions for proper connections and terminations.

The general notes section outlines the principles of electrical and instrument installation, referencing the use of abbreviations, symbols, and standards. Specific instructions are given for grounding, bonding, and the use of conduit types.

The classification section details the use of electrical equipment and materials, with specific notes on the use of conductors, cables, and the use of metallic conduit in hazardous locations.

The installation schedule provides a timeline for the completion of various electrical and instrument installations, with specific dates for the start and completion of each task.

The abbreviations section includes a list of symbols and abbreviations used in the diagram, such as "SLG" for single line graph, "SL" for single line, and "W" for wire.

The designations section includes various codes and designations for the equipment, such as "ELECTRICAL PANEL" and "ELECTRICAL METER."
NOTES:
1. FOR ELECTRICAL LEGENDS, AMENDMENTS AND NOTES, REFER TO DRAWING E-2.
2. FOR INFORMATION REGARDING CONDUCT AND WIRING REQUIREMENTS, REFER TO ORIGINAL NOTE 14 THE REMAINING 14 ON DRAWING E-2.
3. THIS DRAWING UTILIZES COMMON AND ADDITIONAL INFORMATION FOR ELECTRICAL EQUIPMENT.
4. THE PROPOSED TESTING, CONTROL PANEL AND CONTROL ELECTRICAL PANEL ARE INDICATED ON THE CONTRACT DRAWINGS.
5. REFER TO DRAWING E-2 FOR ADDITIONAL INFORMATION.
6. THE CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION AND CIRCUITRY PART FROM EXISTING PLANT ELECTRICAL DRAWINGS, SITE CONDITIONS AND SHOP INFORMATION CONTAINED IN THESE PLANS AND DIAGRAMS HAS BEEN OBTAINED IN ITS ENTIRETY FOR A COMPLETE DEMOLITION, UNLESS OTHERWISE NOTED. ALL REMOVED ALONG WITH ALL ASSOCIATED CONDUIT, WIRE, PULLBOXES, ETC. IN ELECTRICAL EQUIPMENT INDICATED WITH SHADING SHALL BE DISCONNECTED AND DE-ENERGIZED AS THEY ARE TO BE REMOVED FROM THE HUB OR TRANSFORMER OR PRIOR TO INSTALLING.
7. SUBMERSIBLE SEWAGE PUMP P-1 (LE/TE-109) AND SUBMERSIBLE SEWAGE PUMP P-2 (LE/TE-110) ARE TO BE RELOCATED - SEE NOTE 4 - TO BE REMOVED - SEE NOTE 4 - TO BE RELOCATED - SEE NOTE 4.
8. SEE NOTE 3 - SEE NOTE 3 - SEE NOTE 3.
10. LIGHT FIXTURE - SEE NOTE 3 - HANDHOLE - SEE NOTES 5 AND 6 - ELECTRICAL EQUIPMENT BACK酅 TOWN OF FALMOUTH, MAINE SEWER IMPROVEMENTS PHASE I
EQUIPMENT LEGEND:
1. PROJ. DESIGNED: TOWN OF FALMOUTH, MAINE
2. ENG: TOWN OF FALMOUTH, MAINE
3. CHECKED: TOWN OF FALMOUTH, MAINE
4. APPROVED: TOWN OF FALMOUTH, MAINE
5. DRAWING NO: 14070D
6. PROJECT NO: 14070B
7. NETWORK MANAGER: J. ENG ME FALMOUTH 14070-SEWER IMPROVEMENTS PHASE I DRAWINGS ELE 14070B-ES-SITEPLAN.DWG
8. DRAWN BY: CHRISTOPHER N. ABELL
9. NO. 13021
10. DATE: 02/2022
11. CONTRACT DRAWINGS
12. SUBMISSION: 02/2022
13. DESIGNED: A. ROBERT
14. CHECKED: C. ABELL
15. APPROVED: C. ABELL
16. CAD: 207.725.8721 | www.wright-pierce.com
17. CAD COORD: 11 BOWDOIN MILL ISLAND, SUITE 140, TOPSHAM, ME 04086
18. DATE: 02/2022
19. CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION AND CIRCUITRY PART FROM EXISTING PLANT ELECTRICAL DRAWINGS, SITE CONDITIONS AND SHOP INFORMATION CONTAINED IN THESE PLANS AND DIAGRAMS HAS BEEN OBTAINED IN ITS ENTIRETY FOR A COMPLETE DEMOLITION, UNLESS OTHERWISE NOTED. ALL REMOVED ALONG WITH ALL ASSOCIATED CONDUIT, WIRE, PULLBOXES, ETC. IN ELECTRICAL EQUIPMENT INDICATED WITH SHADING SHALL BE DISCONNECTED AND DE-ENERGIZED AS THEY ARE TO BE REMOVED FROM THE HUB OR TRANSFORMER OR PRIOR TO INSTALLING.
20. THE CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION AND CIRCUITRY PART FROM EXISTING PLANT ELECTRICAL DRAWINGS, SITE CONDITIONS AND SHOP INFORMATION CONTAINED IN THESE PLANS AND DIAGRAMS HAS BEEN OBTAINED IN ITS ENTIRETY FOR A COMPLETE DEMOLITION, UNLESS OTHERWISE NOTED. ALL REMOVED ALONG WITH ALL ASSOCIATED CONDUIT, WIRE, PULLBOXES, ETC. IN ELECTRICAL EQUIPMENT INDICATED WITH SHADING SHALL BE DISCONNECTED AND DE-ENERGIZED AS THEY ARE TO BE REMOVED FROM THE HUB OR TRANSFORMER OR PRIOR TO INSTALLING.
22. LIGHT FIXTURE - SEE NOTE 3 - HANDHOLE - SEE NOTES 5 AND 6 - ELECTRICAL EQUIPMENT BACK.
**SINGLE LINE DIAGRAM MODIFICATION**

**NOTES:**
1. THE FOLLOWING SYMBOLS SHOWN ON THE AUTOMATIC TRANSFER SWITCH DIAGRAMS SHALL BE NOTED AS FOLLOWS:
   - TRANSFER SWITCH
   - AUTOMATIC TRANSFER SWITCH
   - TRANSFER SWITCH

**SINGLE LINE DIAGRAM DEMOLITION**

**NOTES:**
- PROVIDE 3/4"C, 12#14 CRP
- PROVIDE 3/4"C, 2#12 & 1#12 GND (POWER SUPPLY)
- PROVIDE 1"C, 16#14
- PROVIDE 3/4"C, 14#14
- PROVIDE 3/4"C, 10#14
- PROVIDE 3/4"C, 4#14

**DEMOLITION NOTES:**
- PROVIDE FINAL CONNECTIONS TO ALL EXISTING PUMPS USING HEAVY-DUTY, EXTRA-FLEXIBLE, WATER AND PUMP SEALING MATERIAL. CONNECTIONS SHALL BE MARKED AND IDENTIFIED TO ENSURE CORRECT INTERFACE.
- PROVIDE FINAL CONNECTIONS TO ALL EXISTING PUMPS USING HEAVY-DUTY, EXTRA-FLEXIBLE, WATER AND PUMP SEALING MATERIAL. CONNECTIONS SHALL BE MARKED AND IDENTIFIED TO ENSURE CORRECT INTERFACE.

**GENERAL NOTES:**
- CONDITIONAL, SHOP DRAWS. THE CONTRACTOR SHALL FIELD VERIFY ALL CIRCUIT INFORMATION CONTAINED IN THESE PLANS AND DIAGRAMS HAS BEEN ACCURATELY REPRESENTED.
NOTES:
1. REFER TO NOTES BELOW FOR ADDITIONAL REQUIREMENTS.
2. INSTALL MARKER TAPE THE ENTIRE LENGTH OF EACH DUCT BANK.
3. BETWEEN ALL POWER CONDUITS AND ALL SIGNAL AND/OR CONTROL CONDUITS IN ORDER TO IT SHALL BE REQUIRED THAT A MINIMUM OF 1'-0" CLEARANCE BE PROVIDED AT ALL TIMES REFER TO CIVIL DRAWINGS FOR DIMENSIONS AND ADDITIONAL REQUIREMENTS.

NOTES:
1. REFER TO PANELBOARD SYSTEM GROUNDING CONDUCTOR SIZE AS SHOWN ON DRAWINGS.
2. INSTALL FIXTURE ON GABLE END OF STRUCTURE TO ILLUMINATE AREA AT EQUIPMENT CANOPY. ONE CENTERED ABOVE FRONT SIDE EQUIPMENT AND MOUNT LIGHT FIXTURES TO COLLAR TIES ON THE UNDERSIDE OF THE LP-1, UNLESS OTHERWISE NOTED.
3. REFER TO NOTES BELOW FOR ADDITIONAL REQUIREMENTS.

NOTES:
1. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. INSTALL LIGHT FIXTURES TO COLLAR TIES ON THE UNDERSIDE OF THE LP-1, UNLESS OTHERWISE NOTED.

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2. INSTALL FIXTURE ON GABLE END OF STRUCTURE TO ILLUMINATE AREA AT EQUIPMENT CANOPY. ONE CENTERED ABOVE FRONT SIDE EQUIPMENT AND MOUNT LIGHT FIXTURES TO COLLAR TIES ON THE UNDERSIDE OF THE LP-1, UNLESS OTHERWISE NOTED.
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TYPICAL FLOAT SWITCH
SUPPORT AND INSTALLATION DETAIL

POWER JUNCTION BOX
LOCATION OF 2.5" DIA. HOLE WITH 8" SHANK MUST BE A MINIMUM OF 36" ABOVE WET WELL WATER LINE SEAL - TYP

MARK FINAL LOCATION AFTER SET WITH 8" TO 10" (TYP)
PLASTIC STRAIN RELIEF CONNECTORS FOR CABLE (TYP)
NOTES FOR STRAIN RELIEFS AND LINING REMOVAL
WEIGHTED FLOAT SWITCH ATTACH PVC COATED CABLE TO A 1/4" BOLT PASSED THROUGH HOLE IN CONCRETE (TYP)
12" LONG SERIES SCREW SUPPRESSED WITH TRANSLATION POLES AND TWO HOLLOW WASHERS REQUIRED. HOLLOW WASHER TO BE USED WHERE OPENING CLEARS SEWER DRAIN, FLOOR JOISTS, WALLS OR OTHER OBSTACLES WHICH MAY AFFECT THE FLOAT SWITCH. POLYURETHANE TUBE TO THE LOCATION FOR TRANSLATION POLES TO EXIT (TYP).

TYPICAL POWER AND CONTROL WET WELL JUNCTION BOX DETAIL - PLAN AND SECTION VIEW

POWER JUNCTION BOX
LOCATION OF 2.5" DIA. HOLE WITH 8" SHANK MUST BE A MINIMUM OF 36" ABOVE WET WELL WATER LINE SEAL - TYP

MARK FINAL LOCATION AFTER SET WITH 8" TO 10" (TYP)
PLASTIC STRAIN RELIEF CONNECTORS FOR CABLE (TYP)
NOTES FOR STRAIN RELIEFS AND LINING REMOVAL
WEIGHTED FLOAT SWITCH ATTACH PVC COATED CABLE TO A 1/4" BOLT PASSED THROUGH HOLE IN CONCRETE (TYP)
12" LONG SERIES SCREW SUPPRESSED WITH TRANSLATION POLES AND TWO HOLLOW WASHERS REQUIRED. HOLLOW WASHER TO BE USED WHERE OPENING CLEARS SEWER DRAIN, FLOOR JOISTS, WALLS OR OTHER OBSTACLES WHICH MAY AFFECT THE FLOAT SWITCH. POLYURETHANE TUBE TO THE LOCATION FOR TRANSLATION POLES TO EXIT (TYP).

NOTES:
1. FOR ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES, REFER TO DRAWINGS E-1.
2. FOR INFORMATION REGARDING CONDUIT AND WIRING REQUIREMENTS, REFER TO GENERAL NOTES 27 AND 28 ON DRAWING E-1.
3. CIRCUIT NUMBERS INDICATED ON THIS DRAWING REFER TO PANELBOARD LP-1, UNLESS OTHERWISE NOTED.

CONCRETE

BOTTOM OF JUNCTION BOX SHALL BE A MINIMUM OF 20" ABOVE WET WELL HATCH
BACK FILL WITH CONCRETE AND PIN TO WET WELL STRUCTURE
WITH 6" GRID OF #4 REBAR AROUND CONDUIT.
CORD CONNECTOR - TYP
EXPLOSION PROOF JUNCTION BOX - SIZED AS REQUIRED
CIRCUIT BREAKER - SIZED AS REQUIRED

PVC COATED 18/8SS CABLE WITH EYE SPLICE
ATTACH PVC COATED CABLE TO 1/4" BOLT PASSED THROUGH HOLE IN CONCRETE (TYP)
ATTACH PVC COATED CABLE TO 1/4" BOLT PASSED THROUGH HOLE IN CONCRETE (TYP)
ATTACH PVC COATED CABLE TO 1/4" BOLT PASSED THROUGH HOLE IN CONCRETE (TYP)
ATTACH PVC COATED CABLE TO 1/4" BOLT PASSED THROUGH HOLE IN CONCRETE (TYP)
ATTACH PVC COATED CABLE TO 1/4" BOLT PASSED THROUGH HOLE IN CONCRETE (TYP)
ATTACH PVC COATED CABLE TO 1/4" BOLT PASSED THROUGH HOLE IN CONCRETE (TYP)
**WIRE AND CONDUIT SCHEDULE**

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<tr>
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<th>CONDUCTOR</th>
<th>AREA</th>
<th>DESTINATION</th>
<th>TO</th>
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<tbody>
<tr>
<td>P1</td>
<td>4 1/2&quot; FULL STR</td>
<td>SERVICE METER POLE</td>
<td>ONE-HALF INCH</td>
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<tr>
<td>P2</td>
<td>2&quot; 4G BRAKE COPPER</td>
<td>MAIN CIRCUIT BREAKER</td>
<td>SERVICE COUPLING SYSTEM</td>
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<tr>
<td>P3</td>
<td>2&quot; 4G BRAKE COPPER</td>
<td>MAIN CIRCUIT BREAKER</td>
<td>AUTOMATIC TRANSFER SWITCH</td>
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<td>MAIN CIRCUIT BREAKER</td>
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<td>P5</td>
<td>2&quot; 4G BRAKE COPPER</td>
<td>AUTOMATIC TRANSFER SWITCH</td>
<td>GENERATOR</td>
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<tr>
<td>P6</td>
<td>2&quot; 4G BRAKE COPPER</td>
<td>AUTOMATIC TRANSFER SWITCH</td>
<td>POWER DISTRIBUTION PANEL</td>
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<tr>
<td>P7</td>
<td>2&quot; 4G BRAKE COPPER</td>
<td>AUTOMATIC TRANSFER SWITCH</td>
<td>POWER DISTRIBUTION PANEL</td>
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<td>P8</td>
<td>2&quot; 4G BRAKE COPPER</td>
<td>TRANSFORMER</td>
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<tr>
<td>P9</td>
<td>2&quot; 4G BRAKE COPPER</td>
<td>POWER DISTRIBUTION PANEL</td>
<td>P-I VFD CONTROL PANEL</td>
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<td>P10</td>
<td>2&quot; 4G BRAKE COPPER</td>
<td>POWER DISTRIBUTION PANEL</td>
<td>MILC PUMP P-1</td>
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<td>POWER DISTRIBUTION PANEL</td>
<td>P-I VFD CONTROL PANEL</td>
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<td>P12</td>
<td>2&quot; 4G BRAKE COPPER</td>
<td>P-I VFD CONTROL PANEL</td>
<td>MILL PUMP P-2</td>
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<td>P13</td>
<td>2&quot; 4G BRAKE COPPER</td>
<td>LIGHTING PANEL</td>
<td>BLOCK HEATER BATTERY CHARGER</td>
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<td>P14</td>
<td>2&quot; 4G BRAKE COPPER</td>
<td>POLE MOUNTED TRANSFORMER</td>
<td>MAIN CIRCUIT BREAKER</td>
<td>MILLER CABINET</td>
<td></td>
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<td>POLE MOUNTED TRANSFORMER</td>
<td>MAIN CIRCUIT BREAKER</td>
<td>MILLER CABINET</td>
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<tr>
<td>P16</td>
<td>3/4&quot; 3G 3W-12V</td>
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<td>TRANSFORMER</td>
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<tr>
<td>P17</td>
<td>3/4&quot; 3G 3W-12V</td>
<td>LIGHTING PANEL</td>
<td>32 LIGHT Fixtures</td>
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<tr>
<td>P18</td>
<td>3/4&quot; 3G 3W-12V</td>
<td>LIGHTING PANEL</td>
<td>T LIGHT FIXTURE</td>
<td></td>
<td></td>
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<tr>
<td>P19</td>
<td>3/4&quot; 3G 3W-12V</td>
<td>LIGHTING PANEL</td>
<td>PANELBOARD-RECEPTACLE</td>
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<tr>
<td>P20</td>
<td>3/4&quot; 3G 3W-12V</td>
<td>LIGHTING PANEL</td>
<td>PANELBOARD-RECEPTACLE</td>
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**NOTES:**
1. FOR ELECTRICAL LEGENDS, ABBREVIATIONS AND NOTES, REFER TO DRAWINGS E-1.
2. FOR INFORMATION REGARDING CONDUIT AND WIRING REQUIREMENTS, REFER TO GENERAL NOTES 19 AND 20 ON DRAWING E-1.
3. CIRCUIT NUMBERS INDICATED ON THIS DRAWING REFER TO PANELBOARD (A) ENGINEER'S CONTINUOUS NOTES.

**LIGHTING FIXTURE SCHEDULE**

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<th>CATALOG NO</th>
<th>VOLT</th>
<th>DESCRIPTION</th>
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<tr>
<td>D3</td>
<td>LED</td>
<td>27W</td>
<td>CEILING OR FORumont. SIDE</td>
<td>COOPER METALS &amp; ELECT.</td>
<td>SV85-610-05</td>
<td>120</td>
<td>2 FT. ONCL. &amp; POLYURETHANE GASKETED, LED, WET LOCATION, CLEAR LENS BRIGHTNESS ACRYLIC LENS, 1000 LUMENS, 70%</td>
</tr>
<tr>
<td>T</td>
<td>LED</td>
<td>40W</td>
<td>WALL</td>
<td>COOPER LUMARK &amp; ELECT.</td>
<td>LWN-40-40</td>
<td>120</td>
<td>LED QUIXPACK, DL, WET LOCATION, BRUSH FINISH, BESPOKE GLASS SHADE, 350 LUMENS</td>
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