

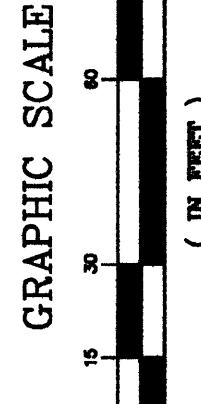
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OCEAN AVENUE ELEMENTARY SCHOOL
 PORTLAND, MAINE
 PROJECT:
SITE UTILITY PLAN

SHEET TITLE: 331610-CS-102
 PROJECT NO.: 331610
 DRAWING SCALE: 1"=30'
 SHEET NO.: 17
 PROJECT MANAGER: AAH
 DRAWN BY: RMC
 CHECKED BY: AAH

- UTILITY LEGEND NOTES:**
- Ⓐ EXISTING OVERHEAD SERVICE TO EXISTING POLE 4A-2
 - Ⓑ PROPOSED UNDERGROUND ELECTRICAL SERVICE, SEE SITE ELECTRICAL DRAWINGS FOR MORE DETAILS.
 - Ⓒ PROPOSED 8" & 4" CLASS 5201 WATER MAIN, SEE TRENCH DETAIL DWG C502
 - Ⓓ PROPOSED GAS MAIN, SEE TRENCH & BACKFILL DETAILS DWG C502
 - Ⓔ HVAC UNIT ON 10'x10' CONCRETE PAD, SEE DETAIL ON DRAWING C501
 - Ⓕ ELECTRICAL TRANSFORMER, SEE SITE ELECTRICAL PLAN AND DETAILS, E501 AND E502, FOR INFORMATION ABOUT SITE ELECTRICAL INFRASTRUCTURE.
 - Ⓖ 12,000 GAL UNDERGROUND FUEL OIL STORAGE TANK, SEE GENERAL UTILITY NOTES NO. 1 AND DETAIL ON DRAWING C502.
 - Ⓗ PROPOSED 6" SANITARY SEWER, SEE TRENCH DETAIL DWG C502
 - Ⓘ 4" CORRUGATED POLYETHYLENE TYPE "B" UNDERDRAN WITH CLEANOUTS, INITIAL INVERT = 56.0 MINIMUM SLOPE = 0.5%
 - Ⓚ SEE DETAILS DWG. C502 AND SCHEMATIC ON C504.



- GENERAL UTILITY NOTES:**
1. UNDERGROUND ELECTRIC SERVICE, FUEL STORAGE TANK, THE OWNERS AND CONTROLS SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR. EXCAVATION AND BACKFILL SHALL BE BY THE SITE CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE CONCRETE PAD, STEEL MANHOLE FRAME AND COVERS. THE CONSULT SHALL BE SUPPLIED AND PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE ELECTRICAL AND MECHANICAL CONTRACTORS.
 2. THE OWNER SHALL SCHEDULE A UTILITY COMPANY PRE-CONSTRUCTION MEETING PRIOR TO INSTALLATION OF ANY UTILITIES. THOSE IN ATTENDANCE SHALL INCLUDE THE CONTRACTOR, REPRESENTATIVES OF THE OWNER, CENTRAL DISTRICT, THE MUNICIPAL ENGINEER, FIELD INSPECTOR, AND CONSULTING ENGINEER. ANY UTILITY PLAN REVISIONS LISTED ABOVE AND THIS MEETING CAN BE COMBINED WITH THE PRE-CONSTRUCTION MEETING.
 3. UTILITIES SHOWN ON THIS DRAWING ARE BASED ON A COMPILATION OF FIELD OBSERVATIONS AND RECALL AVAILABLE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER NOTIFICATION OF ALL UTILITY COMPANIES IN THE VICINITY OF UNDERGROUND UTILITIES. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 4. THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT GUARANTEED BY THE OWNER. SURVEYOR REPAIR ENGINEERING UTILITIES AS REQUIRED TO COMPLETE THE WORK.
 5. IF UTILITY INSTALLATION REQUIRES EXCAVATION IN WALTON STREET OR OCEAN AVENUE, PERMITS SHALL BE ACQUIRED BY THE SITE CONTRACTOR PRIOR TO CONSTRUCTION.
 6. ALL WATER MAINS, SERVICES, HYDRANT, AND FITTINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING CODE AND APPROVED BY PORTLAND WATER DISTRICT. WATER SERVICE CONNECTION AT THE MAIN IN WALTON STREET SHALL BE SUBJECT TO APPROVAL WITH PORTLAND WATER DISTRICT.
 7. EXISTING 8" WATER LINE TO BE REMOVED IN ENTRANCE DRIVE. NEW CLASS 52 DI PIPE SHALL BE INSTALLED FROM EXISTING 8" WATER MAIN TO NEW 8" WATER MAIN. NEW CLASS 52 DI PIPE SHALL BE INSTALLED FROM POWER COMPANY.
 8. SITE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION AND BACKFILL OF UNDERGROUND POWER TO BUILDING FROM THE ON-SITE POLE AND CONDUIT TO ON-SITE LIGHTS. SEE ELECTRICAL PLAN AND DETAILS.
 9. SEE SITE ELECTRICAL PLANS AND DETAILS FOR MORE INFORMATION. SEE PHOTOGRAPHIC PLANS FOR LUMINAIRES.
 10. APPROVALS FOR ROAD CLOSURES, RESTRICTIONS TO LAKE MOTORS AND/OR ANY MEASURES THAT RESTRICT THE NORMAL TRAFFIC FLOW SHALL BE OBTAINED FROM THE PORTLAND POLICE DEPARTMENT AND STATE AUTHORITIES.
 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE PORTLAND POLICE DEPARTMENT AND STATE AUTHORITIES.
 12. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PORTLAND ZONING ORDINANCE, LATEST EDITION, PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
 13. ALL DISTURBED AREAS IN PUBLIC STREETS AND RIGHT-OF-WAYS SHALL BE RESTORED TO ORIGINAL CONDITION. ALL DISTURBED AREAS IN PRIVATE STREETS AND RIGHT-OF-WAYS SHALL BE RESTORED TO ORIGINAL CONDITION. ALL DISTURBED AREAS IN PUBLIC STREETS AND RIGHT-OF-WAYS SHALL BE RESTORED TO ORIGINAL CONDITION. ALL DISTURBED AREAS IN PRIVATE STREETS AND RIGHT-OF-WAYS SHALL BE RESTORED TO ORIGINAL CONDITION.
 14. ALL CONSTRUCTION AND REPAIR WORK IN STATE OWNED ROADS SHALL CONFORM TO CURRENT MAINE DOT STANDARDS AND SPECIFICATIONS.
 15. IT IS EXPECTED THAT BACKFILL WILL BE CONCENTRATED ON THE SITE. CONTROLLED BLASTING SHALL BE PERFORMED BY A LICENSED BLASTING CONTRACTOR.
 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES, BACKFILL AND COORDINATION WITH UTILITY.
 17. ALL EXISTING & PROPOSED CATCH BASINS SHALL BE EQUIPPED WITH TEMPORARY INLET PROTECTION. SEE GENERAL UTILITY NOTES NO. 17 FOR MORE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES, BACKFILL AND COORDINATION WITH UTILITY.
 18. ALL APURTANCES ASSOCIATED WITH THE TRANSFORMER INCLUDING THE PAD SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES, BACKFILL AND COORDINATION WITH UTILITY.
 19. A CATCH TRAP SHALL BE INSTALLED IN EACH CATCH BASIN ACCORDING TO THE TECHNICAL STANDARDS OF THE CITY OF PORTLAND.

- GENERAL UTILITY NOTES (CONT.):**
20. THE CITY OF PORTLAND IS PREPARING DRAWINGS TO SEPARATE THE COMBINED SEWER ON SITE AS PART OF A COMBINED PROJECT. THE SEWER BUILDING SERVICE WILL BE CONNECTED INTO THE PROPOSED SEWER LINE AT A POINT TO BE DETERMINED BY THE CITY OF PORTLAND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES, BACKFILL AND COORDINATION WITH UTILITY.
 21. REASON VENTING IS REQUIRED IN 3 LOCATIONS WITHIN THE BUILDING FOOTPRINT. SEE DETAIL DWG C502
 22. 12" ROOF DRAIN AND 12" ROOF DRAIN TO DRAINAGE CHANNEL DRAIN. SEE DETAIL DWG. C504
 23. MATERIALS FOR PIPE USE AS FOLLOWS:
 8" & 12" PVC FOR SEWER
 8" & 12" HDPE FOR WATER
 8" & 12" HDPE FOR SANITARY SEWER
 8" & 12" HDPE FOR WATER MAIN
 8" & 12" HDPE FOR UNDERDRAN
 24. TRENCH DRAIN SLOPE = 1% (8% TURNAROUND) 56.23
 INVERT AT EDGE OF PLAZA 26.54
 INVERT TRANSITION TO SOLID PIPE (10" S) BED 2-4) 56.3

LEGEND EXISTING:

- Ⓐ TREELINE
- Ⓑ FENCE LINE METAL
- Ⓒ FENCE LINE WOODEN
- Ⓓ TELEPHONE LINE
- Ⓔ TELEPHONE MANHOLE
- Ⓕ UTILITY POLE
- Ⓖ APPROX. EXIST BUILDING LOCATION
- Ⓗ BUILDING
- Ⓘ EDGE OF PAVEMENT
- Ⓚ EDGE OF CONCRETE
- Ⓛ STURMANS CURB
- Ⓜ GRANITE CURB
- Ⓨ STONEWALL
- Ⓩ PROPERTY LINE
- ⓐ EASEMENT LINE
- ⓑ RIGHT OF WAY LINE
- ⓓ CONSTRUCTION SETBACK
- ⓔ TEST PIT / BORING
- ⓖ 5/8" REBAR WITH CAP
- ⓗ EXISTING MONUMENT FOUND
- Ⓢ INDEX CONTOUR
- Ⓣ INTERMEDIATE CONTOUR
- Ⓤ SURVEY BENCHMARK
- ⓖ STREAM

LEGEND PROPOSED:

- Ⓐ STORM DRAIN MANHOLE
- Ⓑ STORM DRAIN CATCH BASIN
- Ⓒ STORM DRAIN CULVERT
- Ⓓ UNDERDRAN CLEANOUT
- Ⓔ 4" DIA. FOUNDATION UNDERDRAN
- Ⓕ SANITARY SEWER MANHOLE
- Ⓖ SANITARY SEWER MAIN
- Ⓗ WATERLINE
- Ⓘ GAS MAIN
- Ⓚ WATER LINE METER PIT
- Ⓛ WATER LINE GATE VALVE
- Ⓜ WATER LINE SHUT-OFF VALVE
- Ⓨ WATER LINE MANHOLE
- Ⓩ OVERHEAD UTILITY LINES
- ⓐ TRANSFORMER/PAD
- ⓑ ELECTRIC BOX
- ⓓ ELECTRIC MANHOLE
- ⓔ LIGHT POLE
- ⓖ 5/8" REBAR WITH CAP
- ⓗ EXISTING MONUMENT FOUND
- Ⓢ INDEX CONTOUR
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SURVEY BENCHMARK:

- Ⓐ TREELINE
- Ⓑ FENCE LINE METAL
- Ⓒ FENCE LINE WOODEN
- Ⓓ LIGHT POLE
- Ⓔ TELEPHONE LINE
- Ⓕ TELEPHONE MANHOLE
- Ⓖ UTILITY POLE
- Ⓗ APPROX. EXIST BUILDING LOCATION
- Ⓘ BUILDING
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- Ⓛ EDGE OF CONCRETE
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NOTE: SCHOOL DISTRICT HAS AN INET SYSTEM WHICH UTILIZES DARK FIBER THAT LINKS ALL OF THE SCHOOLS, INCLUDING THE BAXTER SCHOOL. THIS FIBER ORIGINATES AT THE PORTLAND ARTS AND TECHNICAL HIGH SCHOOL (PATHS) ON SIEVENS AVENUE. THE EXACT LOCATION AND BUILDING OF THE FIBER WHEN THE BAXTER SCHOOL IS DEMOLISHED, SO THAT IT MAY BE RUN INTO THE NEW BUILDING. SEE SITE ELECTRICAL PLAN FOR MORE INFORMATION ON THE ROUTING OF THE FIBER INTO THE NORTHEAST CORNER OF THE NEW BUILDING.

PROPOSED CATCH BASIN NO. 1
 RIM ELEV. 57.80
 12" INV IN 54.8 FROM BED 2-2
 18" INV IN 54.3 FROM BED 1-2
 SEE GENERAL UTILITY NOTE 17

PROPOSED 4" TYPE "F" CATCH BASIN
 RIM ELEV. 55.5
 12" INV IN 55.5
 18" INV OUT (AT BED 2-4) 55.0
 SEE GENERAL UTILITY NOTE 17

PROPOSED 6" ID CATCH BASIN NO. 2
 RIM ELEV. 56.1
 12" INV IN 50.0 FROM DMH NO. 2
 18" INV IN 51.2 FROM BED 2-5
 18" INV OUT 48.9
 SEE GENERAL UTILITY NOTE 17

PROPOSED CATCH BASIN TYPE "F"
 RIM ELEV. 55.1
 12" INV OUT 53.0
 SEE GENERAL UTILITY NOTE 17

NEW FIRE HYDRANT, SEE NOTE 6.

SEE WATER MAIN LAYOUT DETAIL DWG C502

NEW 12" INV INTO EXISTING CATCH BASIN, 52.5

NEW 4" FIRE PROTECTION WATER MAIN, SEE GENERAL UTILITY NOTES 6 & 7 BELOW.

NEW 4" DOMESTIC WATER MAIN, SEE GENERAL UTILITY NOTES 6 & 7 BELOW.

PROPOSED UNDERGROUND UTILITY INSTALLATION SHALL BE COORDINATED WITH CENTRAL MAINE POWER COMPANY

APPROXIMATE LOCATION OF TRENCH EXCAVATION WITH MECHANICAL CONTRACTOR

12" ROOF DRAIN TO DRAINAGE CHANNEL DRAIN
 INV AT BLDG = 56.0
 INV AT OUTLET = 55.0
 SEE DETAIL DWG. C504

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