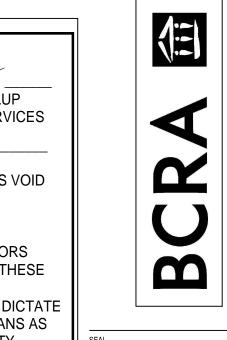
SW 1/4, SECTION 4, TOWNSHIP 19N, RANGE 4E, W.M.

PUYALLUP SCHOOL DISTRICT CTE AND GLAD PORTABLES

1501 39TH AVE SW PUYALLUP, WA 98373



DETERMINED BY THE WATER





CITY OF PUYALLUP CIVIL PERMIT NUMBER E-20-0549

Call 811 two business days

PROJECT INFORMATION:

1501 39TH AVE SW, PUYALLUP, WA 98373

0419043117 (18.93 ACRES) PARCEL NO.

ZONING: PF (PUBLIC FACILITIES)

OWNER CONTACT: PUYALLUP SCHOOL DISTRICT NO. 3 323 12TH ST NW

PUYALLUP, WA 98371 PUYALLUP SCHOOL DISTRICT SUPPORT OPERATIONS LAND USE:

100-YEAR FLOODPLAIN: N/A - ZONE 'X' PER FEMA MAP PANEL NUMBERS 53053C0341E

SCOPE OF WORK: INSTALLATION OF TWO PORTABLE BUILDINGS

(ONE PORTABLE=36'x24' FOOTPRINT, $\pm 38'x26'$ ROOF AREA)

NEW IMPERVIOUS SURFACE:

CONCRETE SIDEWALK - 318 S.F. NEW ASPHALT PAVEMENT - 752 S.F.

EXISTING ASPHALT PAVEMENT - 789 S.F. (PREVIOUSLY CONSTRUCTED)

ESTIMATED EARTHWORK:

(FOR PERMITTING PURPOSES 56 CY FILL ONLY. THE CONTRACTOR SHALL PERFORM INDEPENDENT

CALCULATIONS FOR BIDDING

PREPARED FOR:

PUYALLUP SCHOOL DISTRICT NO. 3

323 12TH ST NW

PUYALLUP, WA 98371

CONTACT: MR. FRANKIE TOPASNA, (253) 435-6646

PREPARED BY:

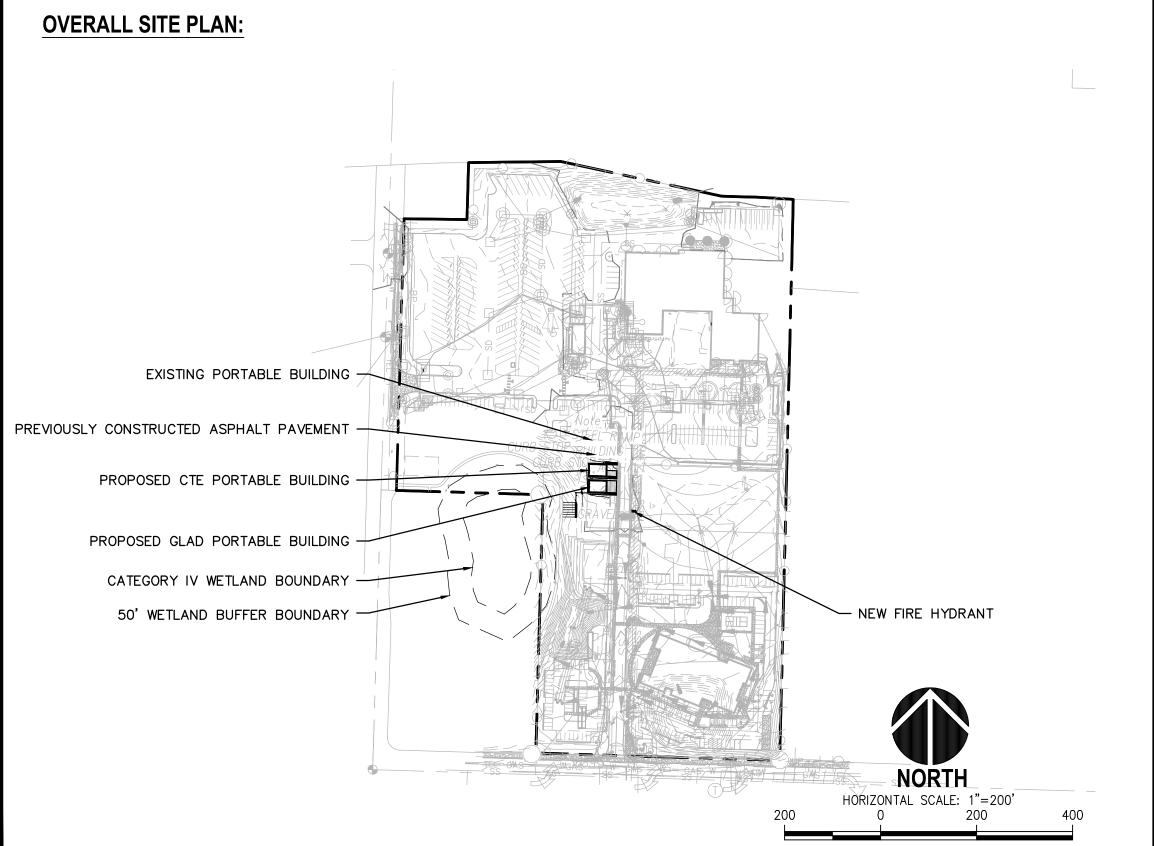
SITTS & HILL ENGINEERS, INC.

CIVIL - STRUCTURAL - SURVEYING

4815 CENTER STREET. TACOMA, WA. 98409 (253) 474-9449 FAX (253) 474-0153 CONTACT: RICK HAND, P.E.

INDEX OF DRAWINGS:

DRAWING No.	SHEET No.	TITLE - DESCRIPTION
C0.0	SHEET 01 OF 09	COVER SHEET
C0.1	SHEET 02 OF 09	GENERAL NOTES
C1.0	SHEET 03 OF 09	DEMOLITION AND TESC PLAN
C1.1	SHEET 04 OF 09	DEMOLITION AND TESC PLAN
C2.0	SHEET 05 OF 09	SURFACING, LAYOUT, GRADING AND DRAINAGE PLAN
C2.1	SHEET 06 OF 09	SURFACING, LAYOUT, GRADING AND DRAINAGE PLAN
C3.0	SHEET 07 OF 09	WATER UTILITY PLAN
C4.0	SHEET 08 OF 09	DETAILS
C4.1	SHEET 09 OF 09	DETAILS





COVER SHEET

11-02-2020 PERMIT SET

01-14-2021 REVISED PERMIT SET

BCRA 圙

PERMIT DRAWING

IF SHEET MEASURES LESS THAN 24"X36", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

CITY OF PUYALLUP GENERAL NOTES

- 1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING. THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES AT (253-841-5568) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF APPROVED PLANS AT THE MEETING.
- 2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL OBTAIN A PUNCH LIST PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- 3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- 4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- 7. ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.
- 9. THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
- 10. POWER, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, AND STORM) OF 5
- 11. ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER.
- 12. DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
- 13. CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
- 14. A NPDES STORMWATER GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY, SOUTHWEST REGION OFFICE AT (360)407-6300.
- 15. ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS. OR SIGNIFICANT TREES DESIGNATED FOR PRESERVATION AND PROTECTION SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE CITY'S PLANNING DIVISION. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.

POLLUTION PREVENTION NOTES

- EQUIPMENT LUBRICATION AND FUELING OPERATIONS SHALL OCCUR AT EXISTING PAVED AREAS.
- 2. PREVENT OILS AND FUELS FROM ENTERING THE STORM DRAINAGE SYSTEM WITH PROPER CONTAINMENT
- ACCESS TO CONSTRUCTION IS VIA ADJACENT EXISTING PAVED STREETS. SWEEP DIRT FROM PAVING DAILY OR AS NEEDED. THE INTENT IS TO PREVENT DIRT AND DEBRIS FROM VEHICLES AND EQUIPMENT FROM BEING DEPOSITED ON CITY STREET PAVEMENT.

PLASTIC COVERING NOTES

- 1. PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MILS AND SHALL MEET THE REQUIREMENTS OF THE STATE STANDARD SPECIFICATIONS SECTION 9-14.6(3).
- 2. COVERING SHALL BE INSTALLED AND MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10-FOOT GRID SPACING IN ALL DIRECTIONS. ALL SEAMS SHALL BE TAPED OR WEIGHTED DOWN FULL LENGTH AND THERE SHALL BE AT LEAST A 12-INCH OVERLAP OF ALL SEAMS.
- CLEAR PLASTIC COVERING SHALL BE INSTALLED IMMEDIATELY ON AREAS SEEDED BETWEEN OCTOBER 1 AND APRIL 30 AND REMAIN UNTIL VEGETATION IS FIRMLY ESTABLISHED.
- 4. WHEN THE COVERING IS USED ON UN-SEEDED SLOPES, IT SHALL BE KEPT IN PLACE UNTIL THE NEXT SEEDING PERIOD.
- PLASTIC COVERING SHEETS SHALL BE BURIED TWO FEET AT THE TOP OF SLOPES IN ORDER TO PREVENT SURFACE WATER FLOW BENEATH SHEETS.
- 6. PROPER MAINTENANCE INCLUDES REGULAR CHECKS FOR RIPS AND DISLODGED ENDS.

CATCH BASIN PROTECTION NOTES

- 1. CATCH BASIN INSERTS SHALL BE PROVIDED IN THE CATCH BASINS NOTED ON THE PLANS.
- 2. AT ALL PROPOSED CATCH BASINS, CATCH BASIN PROTECTION SHALL BE INSTALLED IMMEDIATELY UPON CATCH BASIN INSTALLATION AND SHALL REMAIN UNTIL FINAL SITE STABILIZATION.
- 3. CATCH BASIN INSERT SHALL BE BOWHEAD STREAMGUARD CATCH BASIN INSERT #3003, ADVANCED ENVIRONMENTAL SOLUTIONS DRAINGUARD CATCH BASIN FILTER INSERT #11091U, OR APPROVED EQUAL.
- 4. CATCH BASIN INSERTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- CATCH BASIN INSERTS WILL BE REMOVED FOLLOWING COMPLETION OF CONSTRUCTION AND STABILIZATION OF ALL CLEARED AREAS.

CITY OF PUYALLUP GRADING, EROSION AND SEDIMENTATION NOTES

- 1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- 2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- 3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD. BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HERINAFTER REFERRED TO AS THE "CITY STANDARDS").
- 4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY ENGINEER PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS HOURS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- 7. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.
- 8. ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ONSITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITTEE.
- 9. THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
- 10. APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.
- 11. ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSIVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITTEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.
- 12. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.
- 13. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

STOCKPILE NOTES

- 1. STOCKPILES SHALL BE STABILIZED (WITH PLASTIC COVERING OR OTHER APPROVED DEVICE) DAILY BETWEEN OCTOBER 1 AND APRIL 30.
- 2. IN ANY SEASON, SEDIMENT LEACHING FROM STOCK PILES MUST BE PREVENTED.
- TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY WET OR WHEN CONDITIONS EXIST THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING.
- 4. PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE APPROVED PLAN.

PROJECT SOURCE CONTROL REQUIREMENTS

- DURING CONTRUCTION THE PROJECT SHALL COMPLY WITH THE FOLLOWING DEPARTMENT OF ECOLOGY BMPs:
- BMP C101 PRESERVING NATURAL VEGETATION BMP C120 TEMPORARY AND PERMANENT SEEDING
- BMP C121 MULCHING
- BMP C123 PLASTIC COVERING
- BMP C125 TOPSOILING/COMPOSTING BMP C140 DUST CONTROL
- BMP C150 MATERIALS ON HAND
- BMP C151 CONCRETE HANDLING BMP C152 SAWCUTTING AND SURFACING POLLUTION PREVENTION
- BMP C153 MATERIAL DELIVERY, STORAGE, AND CONTAINMENT BMP C154 CONCRETE WASHOUT AREA
- BMP C160 CERTIFIED EROSION AND SEDIMENT CONTROL LEAD
- BMP C162 SCHEDULING
- BMP C220 INLET PROTECTION BMP C233 SILT FENCE

CITY OF PUYALLUP STORMWATER NOTES

- 1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
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- 3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD. BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
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- 6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- 7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 8. DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
- 9. ALL STORM MANHOLES SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.01. FLOW CONTROL MANHOLE/OIL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.06 AND
- 10. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL 06.01.02.
- 11. CATCH BASINS TYPE I SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.02 AND 02.01.03 AND SHALL BE USED ONLY FOR DEPTHS LESS THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- 12. CATCH BASINS TYPE II SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.04 AND SHALL BE USED FOR DEPTHS GREATER THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- 13. CAST IRON OR DUCTILE IRON FRAME AND GRATE SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.05. GRATE SHALL BE MARKED WITH "DRAINS TO STREAM". SOLID CATCH BASIN LIDS (SQUARE UNLESS NOTED AS ROUND) SHALL CONFORM TO WSDOT STANDARD PLAN B-30.20-04 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-30.30-03 (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).
- 14. STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE
 - a. THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.
 - b. PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15-INCH AND SMALLER AND F679 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
 - UNDERDRAIN PIPE. MINIMUM COVER ON CONCRETE PIPE SHALL NOT LESS THAN 3.0 FEET.
 - d. DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON
- 15. TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO.
- 16. STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF
- 17. ALL STORM DRAIN MAINS SHALL BE TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN SECTION 406 OF THE CITY OF PUYALLUP SANITARY SEWER SYSTEM STANDARDS.
- 18. ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES. AND PROTECTIVE MEASURES FOR

OUTLINES THE PROPER SEQUENCE AND MAINTENANCE REQUIREMENTS FOR ESC IN CONJUNCTION WITH THE CONSTRUCTION OF THE PROJECT. INCLUDES THE FOLLOWING, AS APPLICABLE:

- 1. HOLD A PRECONSTRUCTION MEETING WITH THE CITY AND OBTAIN REQUIRED PERMITS.
- 2. ESTABLISH CLEARING AND GRADING LIMITS.
- 3. INSTALL TESC BMP'S.
- 4. SCHEDULE AN EROSION CONTROL INSPECTION WITH THE CITY.
- 7. INSTALL ROOF DRAIN PIPING AND DISPERSION TRENCH.
- 8. INSTALL PORTABLE BUILDING, RAMP AND WALKS.
- 10. OBTAIN PROJECT APPROVAL
- 11. REMOVE TESC BMP'S.

- SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS

- - c. CONCRETE PIPE SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS FOR CONCRETE

 - e. POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(1). 12-INCH THROUGH 30-INCH PIPE SHALL MEET OR EXCEED ASTM F2736 AND AASHTO M330, TYPE S, OR TYPE D. 36-INCH THROUGH 60-INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND AASHTO M330, TYPE S, OR TYPE D. TESTING SHALL BE PER ASTM F1417. MINIMUM COVER OVER POLYPROPYLENE PIPE SHALL BE 3

DUCTILE IRON PIPE SHALL BE 1.0 FOOT.

- CRITICAL AREAS AND SIGNIFICANT TREES SHALL BE INSTALLED PRIOR TO INITIATING ANY CONSTRUCTION

CONSTRUCTION SEQUENCE

- 5. LOCATE EXITING UTILITIES.
- 6. INSTALL PORTABLE BUILDING PADS.

- 9. COMPLETE SURFACING RESTORATION.

APPROVED CITY OF PUYALLUP

DEVELOPMENT SERVICES 03/16/2021

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE **RESPONSIBLE FOR ERRORS** AND/OR OMISSIONS ON THESE

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY **ENGINEER**

CITY OF PUYALLUP CIVIL PERMIT NUMBER E-20-0549



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ADMIN

REVISIONS 11-02-2020 PERMIT SET 01-14-2021 REVISED PERMIT SET 03-15-2021 REVISED PERMIT SET 10/09/2020 20115.00.00

BCRA 圙 DPYRIGHT 2019 - BCRA, INC. ALL RIGHTS RESERVE CIVIL 02 OF 09

DRAWN BY:

REVIEWED BY

SHEET TITLE

GENERAL NOTES

PERMIT DRAWING

Proj. Engineer:

Project No.:

CIVIL | STRUCTURAL | SURVEY 4815 CENTER STREET | TACOMA, WA. 98409

http://www.sittshill.com

18,980

FAX: (253) 474-0153

Project Mgr.:

Proj. Drafter:

PHONE: (253) 474-9449

APPROVED

CITY OF PUYALLUP DEVELOPMENT SERVICES

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY **ENGINEER**

CITY OF PUYALLUP CIVIL PERMIT

NUMBER E-20-0549



LIMITS OF WORK

STRIP TOP 6" OF SOIL

GENERAL NOTES

- 1. CONTRACTOR TO INSTALL TEMPORARY FENCING/PLATES TO COVER UTILITY TRENCHES WHEN LEFT OPEN AND UNSUPERVISED.
- 2. CONTRACTOR TO PROTECT EXISTING FEATURES BEYOND THE LIMITS OF WORK AND REPAIR ANY DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
- 3. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE ACCESS AND KEEP CLEAR AT ALL TIMES DURING
- 4. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER IMMEDIATELY IF THERE
- ARE ANY DISCREPANCIES AFFECTING THE NEW CONSTRUCTION.
- 5. SEE SHEET CO.1 FOR APPLICABLE PROJECT NOTES.
- 6. SEE ELECTRICAL PLAN FOR POWER AND LOW VOLTAGE CONNECTION REQUIREMENTS.
- 7. CONTRACTOR SHALL REMOVE ALL IRRIGATION COMPONENTS ENCOUNTERED DURING EXCAVATION. IRRIGATION SUPPLY PIPES AND HEADS SHALL BE REROUTED OR RECONFIGURED AS REQUIRED TO RESTORE IRRIGATION SYSTEM TO WORKING ORDER UPON COMPLETION OF CONSTRUCTION.
- 8. CONTRACTOR SHALL PROVIDE CATCH BASIN PROTECTION PER DETAIL 02/C4.0 AT ALL CATCH BASINS THAT RECEIVE RUNOFF FROM THE PROJECT AREA.
- 1 PROTECT EXISTING FEATURE TO REMAIN, AS NOTED.
- 2 REMOVE EXISTING GRASS AND SOIL FROM WITHIN PROPOSED DISTURBED AREA. EXCAVATE TO PROPOSED SUBGRADE DEPTH PER DETAIL 04/C4.0. DISPOSE OF AT AN APPROVE OFF-SITE FACILITY.
- 3 SUGGESTED TEMPORARY SOIL STOCK PILE LOCATION, COORDINATE ACTUAL LOCATION WITH SCHOOL DISTRICT. CONTRACTOR TO PROTECT ALL STOCKPILES AS NEEDED TO PREVENT EROSION PER DETAIL 01/C4.0, AND EMPLOY EROSION CONTROL BMPS IN ACCORDANCE WITH GENERAL NOTES ON SHEET
- 4 SWEEP EXISTING PAVEMENT AS NECESSARY TO PREVENT ACCUMULATION OF SEDIMENT AND TRACKING OF SEDIMENT ONTO ADJACENT PAVEMENT AREAS.
- 5 DECOMMISSION EXISTING MONITORING WELL. COORDINATE WITH OWNER.
- 6 REMOVE AND REPLACE EXISTING CHAIN LINK FENCING AS NECESSARY FOR INSTALLATION OF ROOF

CIVIL | STRUCTURAL | SURVEY 4815 CENTER STREET TACOMA, WA. 98409 PHONE: (253) 474-9449 FAX: (253) 474-0153

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DE SCHOOL DISTRICT

ADMIN PORTAE

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CITY OF PUYALLUP DEVELOPMENT SERVICES

03/16/2021

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CITY OF PUYALLUP CIVIL PERMIT NUMBER E-20-0549



---- TEMPORARY SOIL STOCKPILE

LIMITS OF WORK

STRIP TOP 6" OF SOIL SILT FENCE PER DETAIL 05/C4.0

GENERAL NOTES

- CONTRACTOR TO INSTALL TEMPORARY FENCING/PLATES TO COVER UTILITY TRENCHES WHEN LEFT OPEN AND UNSUPERVISED.
- 2. CONTRACTOR TO PROTECT EXISTING FEATURES BEYOND THE LIMITS OF WORK AND REPAIR ANY DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
- 3. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE ACCESS AND KEEP CLEAR AT ALL TIMES DURING
- 4. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER IMMEDIATELY IF THERE ARE ANY DISCREPANCIES AFFECTING THE NEW CONSTRUCTION.
- 5. SEE SHEET CO.1 FOR APPLICABLE PROJECT NOTES.
- 6. SEE ELECTRICAL PLAN FOR POWER AND LOW VOLTAGE CONNECTION REQUIREMENTS.
- CONTRACTOR SHALL REMOVE ALL IRRIGATION COMPONENTS ENCOUNTERED DURING EXCAVATION. IRRIGATION SUPPLY PIPES AND HEADS SHALL BE REROUTED OR RECONFIGURED AS REQUIRED TO RESTORE IRRIGATION SYSTEM TO WORKING ORDER UPON COMPLETION OF CONSTRUCTION.
- 8. CONTRACTOR SHALL PROVIDE CATCH BASIN PROTECTION PER DETAIL 02/C4.0 AT ALL CATCH BASINS THAT RECEIVE RUNOFF FROM THE PROJECT AREA.

PROTECT EXISTING FEATURE TO REMAIN, AS NOTED.

REMOVE EXISTING GRASS AND SOIL FROM WITHIN PROPOSED DISTURBED AREA. EXCAVATE TO PROPOSED SUBGRADE DEPTH PER DETAIL 04/C4.0. DISPOSE OF AT AN APPROVE OFF-SITE FACILITY.

3 SUGGESTED TEMPORARY SOIL STOCK PILE LOCATION, COORDINATE ACTUAL LOCATION WITH SCHOOL DISTRICT. CONTRACTOR TO PROTECT ALL STOCKPILES AS NEEDED TO PREVENT EROSION PER DETAIL 01/C4.0, AND EMPLOY EROSION CONTROL BMPS IN ACCORDANCE WITH GENERAL NOTES ON SHEET

6 REMOVE AND REPLACE EXISTING CHAIN LINK FENCING AS NECESSARY FOR INSTALLATION OF ROOF

REVIEWED BY: SHEET TITLE TESC PLAN



CIVIL | STRUCTURAL | SURVEY 4815 CENTER STREET | TACOMA, WA. 98409 PHONE: (253) 474-9449 FAX: (253) 474-0153

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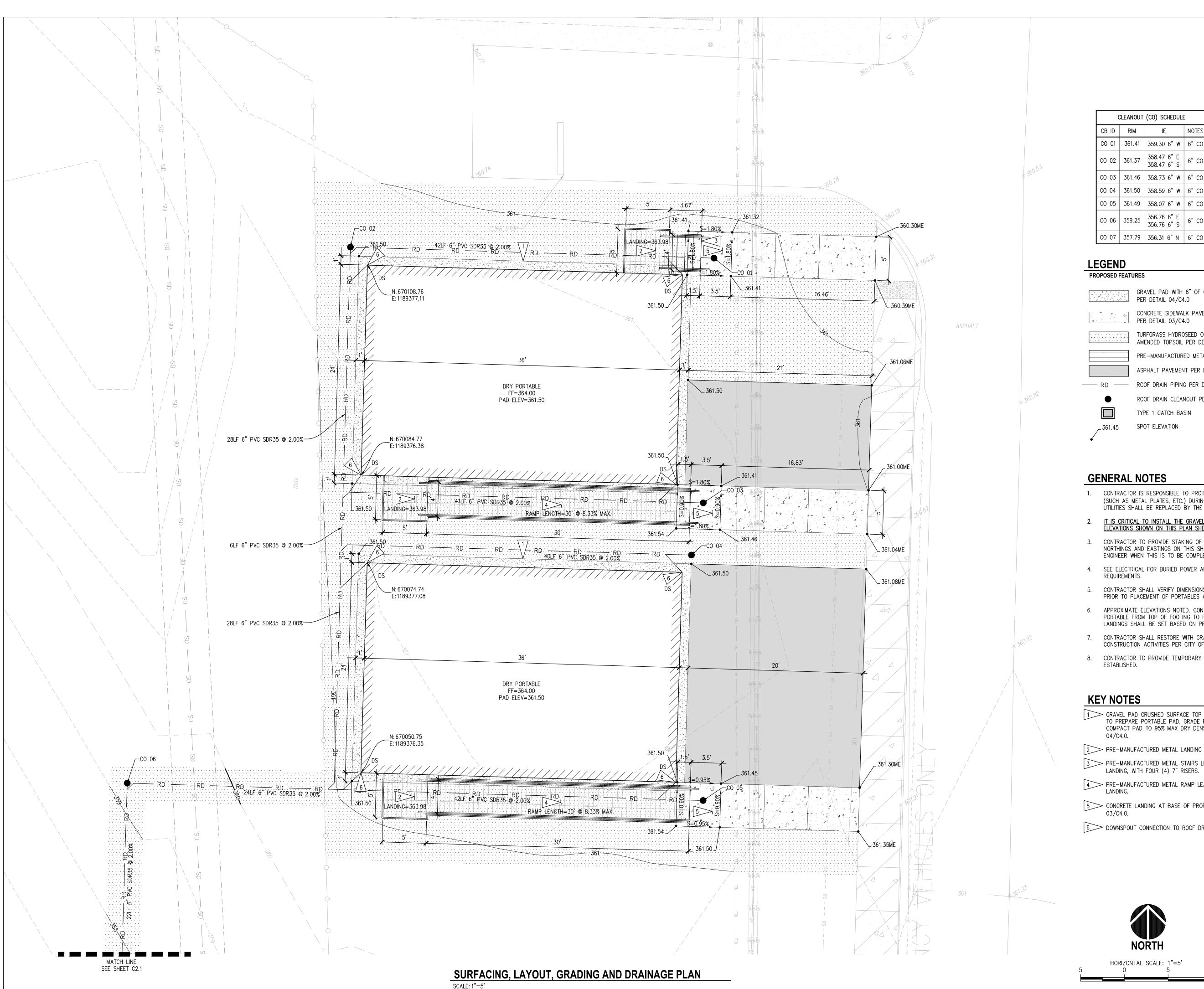
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CITY OF PUYALLUP

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CITY OF PUYALLUP CIVIL PERMIT NUMBER E-20-0549



ABBREVIATIONS

FF FINISHED FLOOR

ME MATCH EXISTING

DS DOWN SPOUT

PROPOSED FEATURES

GRAVEL PAD WITH 6" OF CSTC PER DETAIL 04/C4.0

> CONCRETE SIDEWALK PAVEMENT PER DETAIL 03/C4.0

TURFGRASS HYDROSEED OVER COMPOST AMENDED TOPSOIL PER DETAIL 01.02.08a/C4.0

PRE-MANUFACTURED METAL LANDINGS ASPHALT PAVEMENT PER DETAIL 06/C4.0

---- ROOF DRAIN PIPING PER DETAIL 01/C4.1 ROOF DRAIN CLEANOUT PER DETAIL 02/C4.1

TYPE 1 CATCH BASIN SPOT ELEVATION

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE TO PROTECT EXISTING UTILITY/COVERS BY ANY MEANS NECESSARY (SUCH AS METAL PLATES, ETC.) DURING PORTABLE INSTALLATION. DAMAGED SURFACE FEATURES OR UTILITIES SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 2. <u>IT IS CRITICAL TO INSTALL THE GRAVEL PADS AND PROPOSED PORTABLE FINISHED FLOORS AT THE ELEVATIONS SHOWN ON THIS PLAN SHEET.</u>
- CONTRACTOR TO PROVIDE STAKING OF BUILDING CORNERS FOR PLACEMENT OF PORTABLE. SEE NORTHINGS AND EASTINGS ON THIS SHEET. COORDINATE WITH PUYALLUP SCHOOL DISTRICT AND ENGINEER WHEN THIS IS TO BE COMPLETED.
- 4. SEE ELECTRICAL FOR BURIED POWER AND COMMUNICATION CONDUIT AND TRENCH INSTALLATION REQUIREMENTS.
- CONTRACTOR SHALL VERIFY DIMENSIONS OF ALL PRE-MANUFACTURED METAL STAIRS AND LANDINGS PRIOR TO PLACEMENT OF PORTABLES AND CONCRETE LANDINGS.
- APPROXIMATE ELEVATIONS NOTED. CONTRACTOR SHALL TAKE MEASUREMENT OF RELOCATED PORTABLE FROM TOP OF FOOTING TO FINISH FLOOR. ELEVATION OF GRAVEL PAD AND CONCRETE LANDINGS SHALL BE SET BASED ON PROPOSED FINISH FLOOR ELEVATION MINUS THIS MEASUREMENT.
- 7. CONTRACTOR SHALL RESTORE WITH GRASS ALL SURFACES DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES PER CITY OF PUYALLUP STANDARD DETAIL 01.02.08A ON SHEET C4.0.
- 8. CONTRACTOR TO PROVIDE TEMPORARY IRRIGATION FOR ALL SEEDED SURFACES UNTIL VEGETATION IS ESTABLISHED.

KEY NOTES

1 GRAVEL PAD CRUSHED SURFACE TOP COURSE PER WSDOT 9-03.9(3) AS NECESSARY, ASSUME 6", TO PREPARE PORTABLE PAD. GRADE PRIOR TO PLACEMENT OF PORTABLE TO ENSURE FLAT PAD. COMPACT PAD TO 95% MAX DRY DENSITY PRIOR TO AND AFTER PLACING CSTC. SEE DETAIL

PRE-MANUFACTURED METAL LANDING AT PRIMARY BUILDING DOORS, PER ARCHITECTURAL PLANS. PRE-MANUFACTURED METAL STAIRS LEADING FROM METAL LANDING TO PROPOSED CONCRETE

LANDING, WITH FOUR (4) 7" RISERS. PRE-MANUFACTURED METAL RAMP LEADING FROM METAL LANDING TO PROPOSED CONCRETE

5 CONCRETE LANDING AT BASE OF PROPOSED PRE-MANUFACTURED METAL STAIRS/RAMP, SEE DETAIL

6 DOWNSPOUT CONNECTION TO ROOF DRAIN LINES PER DETAIL 03/C4.1.



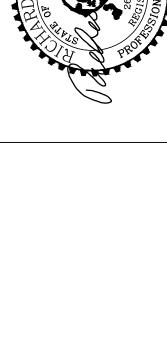
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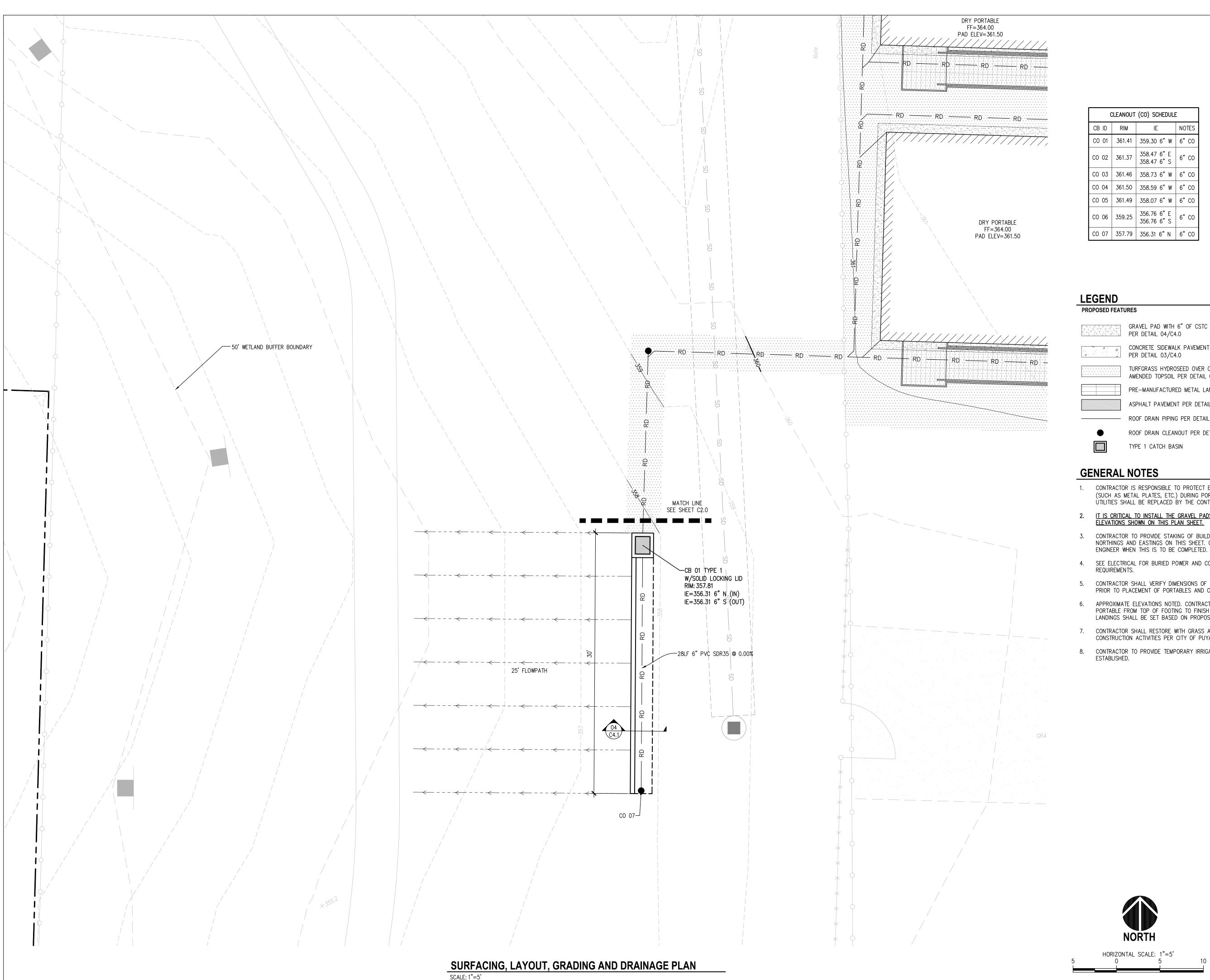
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SHEET TITLE SURFACING, LAYOUT, **GRADING AND** DRAINAGE PLAN

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CITY OF PUYALLUP

DEVELOPMENT SERVICES 03/16/2021

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CITY OF PUYALLUP CIVIL PERMIT NUMBER E-20-0549



ABBREVIATIONS

FF FINISHED FLOOR

ME MATCH EXISTING

DS DOWN SPOUT

PROPOSED FEATURES

GRAVEL PAD WITH 6" OF CSTC PER DETAIL 04/C4.0

CONCRETE SIDEWALK PAVEMENT PER DETAIL 03/C4.0

TURFGRASS HYDROSEED OVER COMPOST

AMENDED TOPSOIL PER DETAIL 01.02.08a/C4.0 PRE-MANUFACTURED METAL LANDINGS

ASPHALT PAVEMENT PER DETAIL 06/C4.0 ROOF DRAIN PIPING PER DETAIL 01/C4.1

ROOF DRAIN CLEANOUT PER DETAIL 02/C4.1 TYPE 1 CATCH BASIN

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE TO PROTECT EXISTING UTILITY/COVERS BY ANY MEANS NECESSARY (SUCH AS METAL PLATES, ETC.) DURING PORTABLE INSTALLATION. DAMAGED SURFACE FEATURES OR UTILITIES SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
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- 4. SEE ELECTRICAL FOR BURIED POWER AND COMMUNICATION CONDUIT AND TRENCH INSTALLATION
- 5. CONTRACTOR SHALL VERIFY DIMENSIONS OF ALL PRE-MANUFACTURED METAL STAIRS AND LANDINGS PRIOR TO PLACEMENT OF PORTABLES AND CONCRETE LANDINGS.
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- 8. CONTRACTOR TO PROVIDE TEMPORARY IRRIGATION FOR ALL SEEDED SURFACES UNTIL VEGETATION IS

UP SCHOOL DISTRICT

ADMIN PORTAE

TH AVE SW, PUYALLUP, WA 9837

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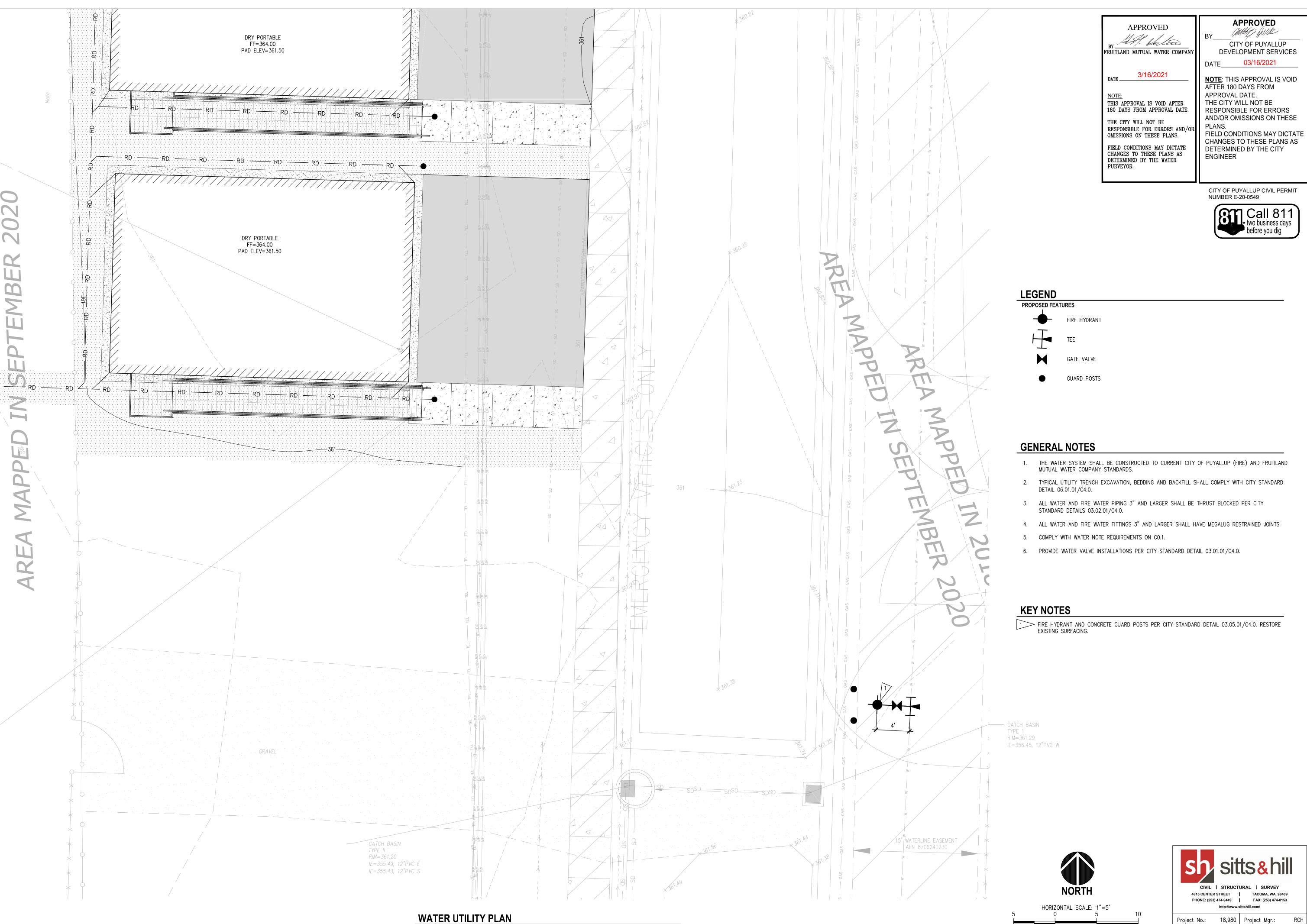
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Proj. Engineer:



SCALE: 1"=5'



BLE PROJECT
PUYALLUP SCHOOL DISTRICT
PSD ADMIN PORTAB
1501 39TH AVE SW, PUYALLUP, WA 98373

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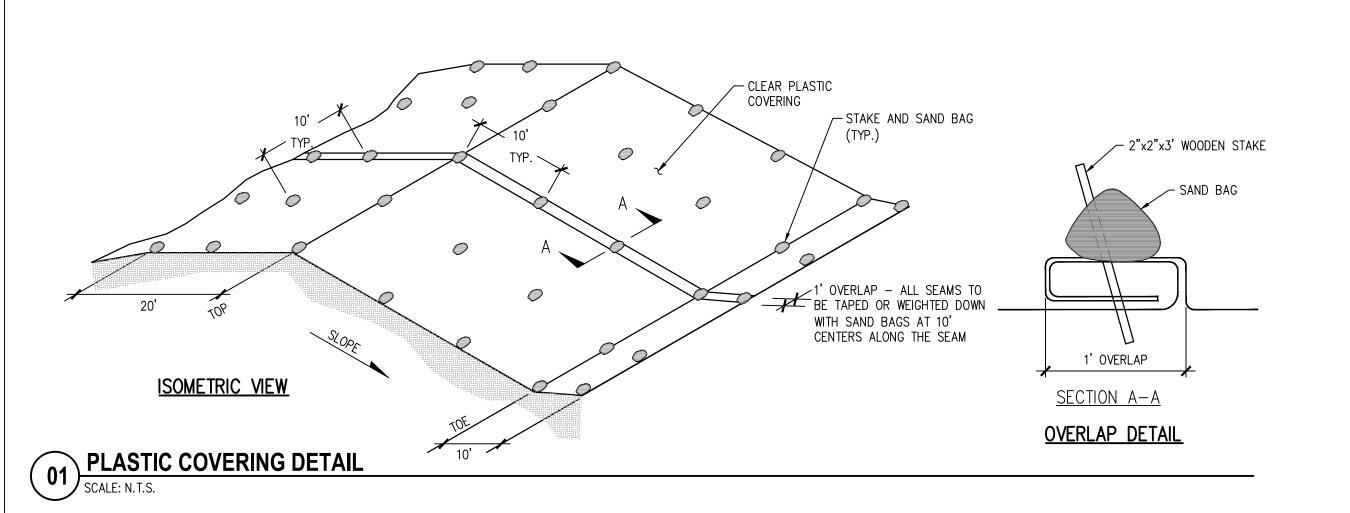
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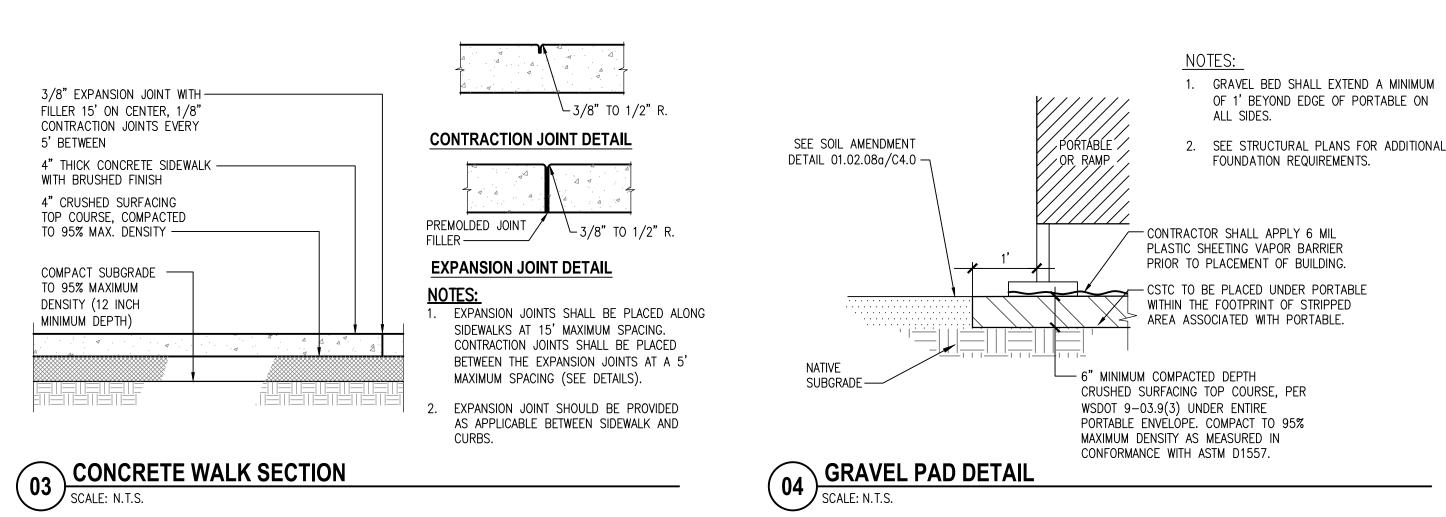
WATER UTILITY PLAN

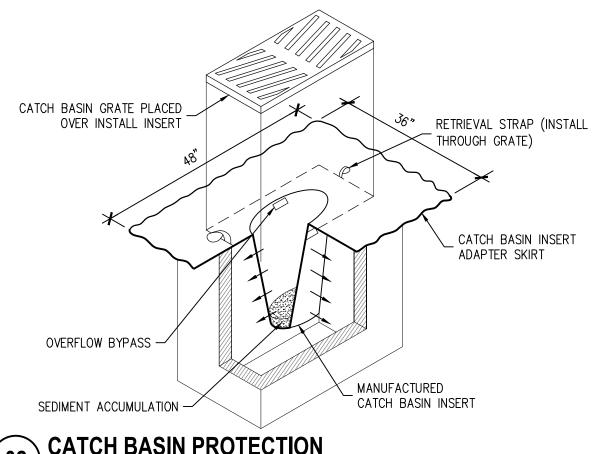
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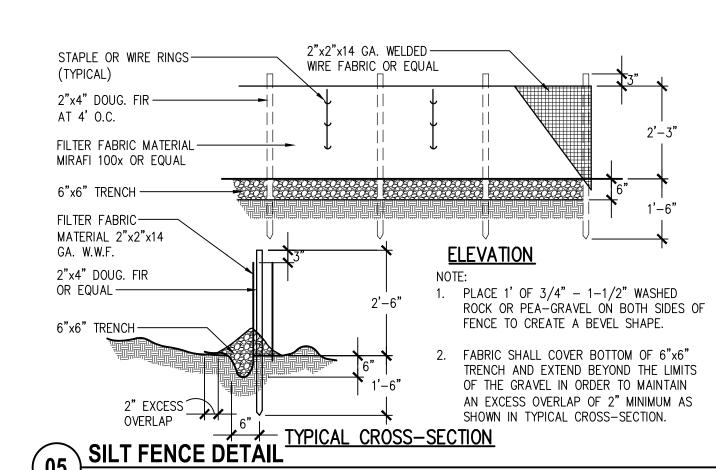
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CATCH BASIN PROTECTION





3/16/2021

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APPROVED CITY OF PUYALLUP DEVELOPMENT SERVICES 03/16/2021

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ADMIN POF

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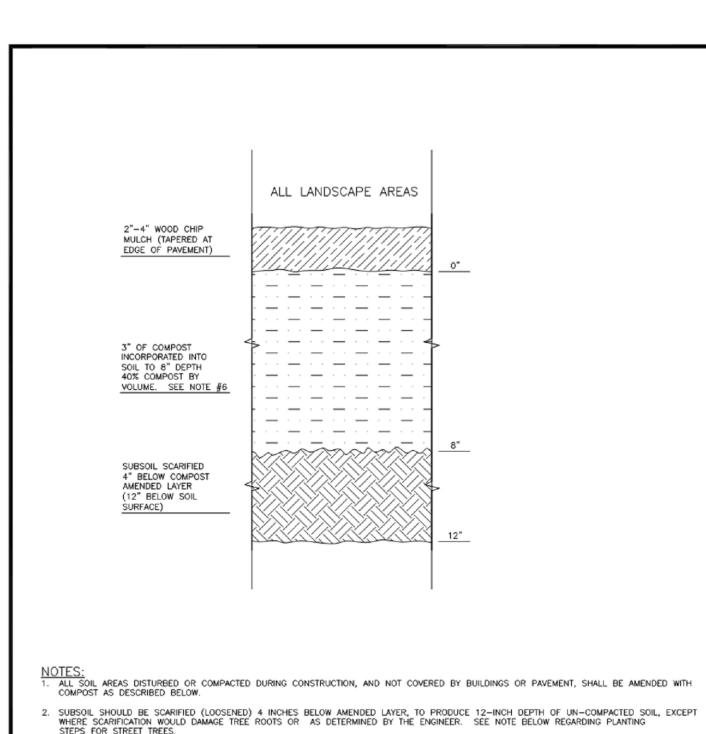
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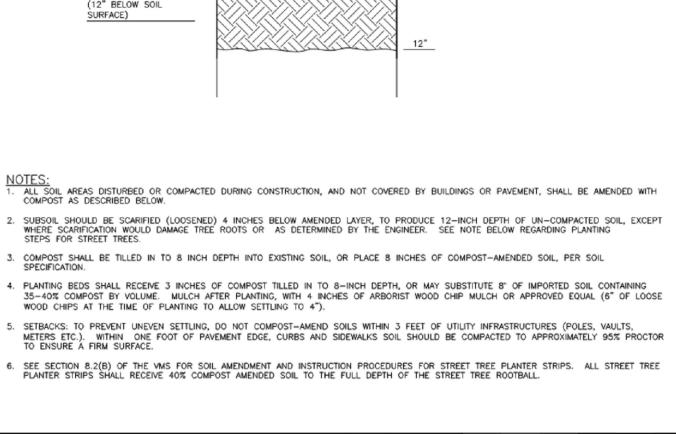
CITY OF PUYALLUP CIVIL PERMIT NUMBER E-20-0549



SILT FENCE NOTES

- FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6 INCH OVERLAP, AND SECURELY FASTENED AT BOTH ENDS TO POSTS.
- 2. POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30
- 3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER. THIS TRENCH SHALL BE BACKFILLED WITH WASHED GRAVEL.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISION OF ABOVE NOTES APPLYING.
- 7. FILTER FABRIC FENCES SHALL NOT BE REMOVED BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- 9. SILT FENCES WILL BE INSTALLED PARALLEL TO ANY SLOPE CONTOURS.



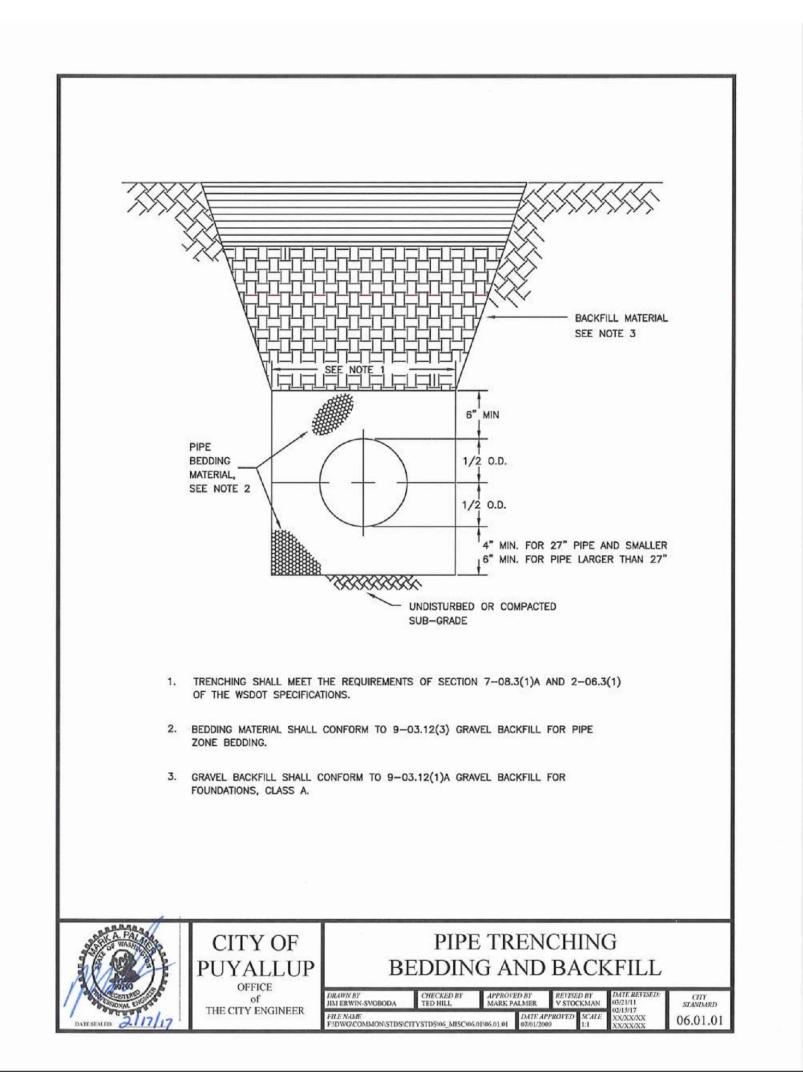


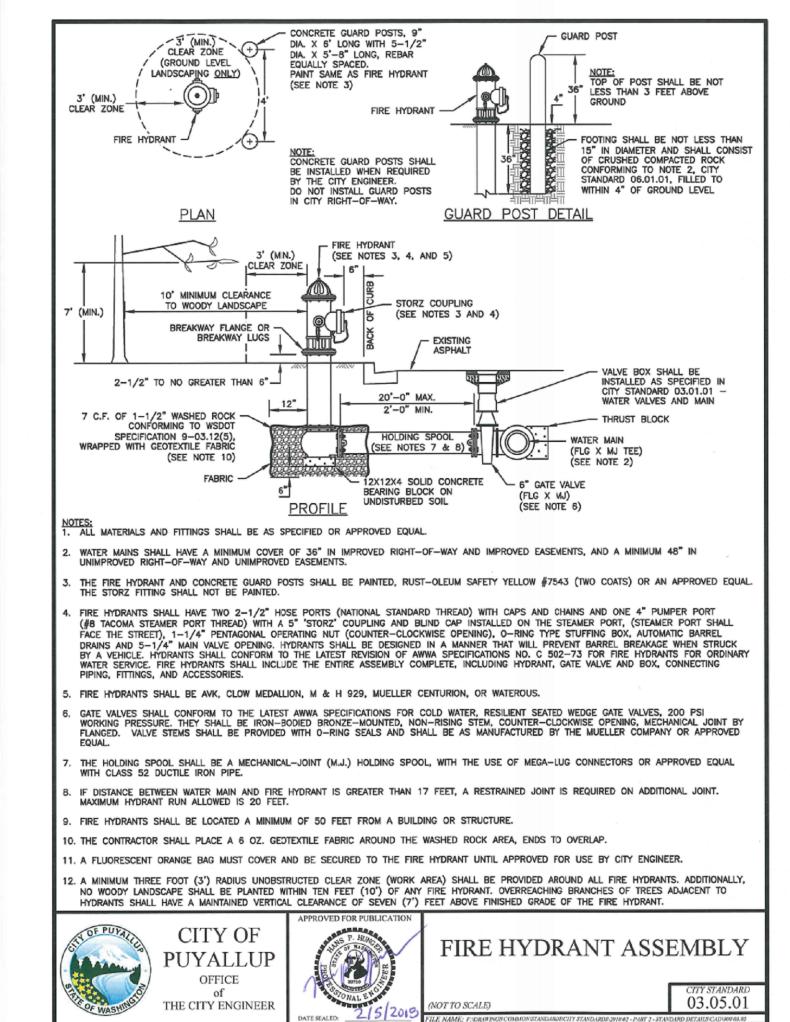
DEVELOPMENT ENGINEERING and

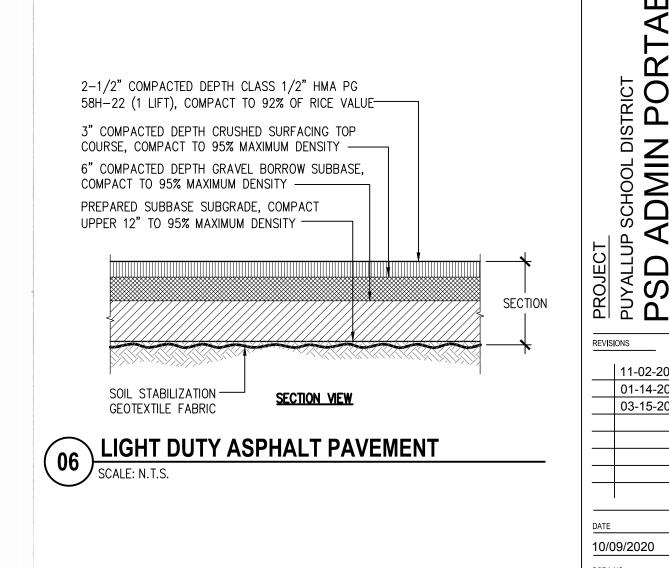
PUBLIC WORKS DEPARTMENTS

SOIL AMENDMENT

AND DEPTH









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http://www.sittshill.com/

18,980 | Project Mgr.:

WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM O 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.

VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN FIVE (5) FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF TWO (2) FEET LONG, ONLY ONE EXTENSION TO BE USED PER VALVE. TOP OF EXTENSION SHALL BE 2 FEET 6 INCHES TO 3 FEET BELOW FINISHED GRADE.

ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT.

VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE VANRICH #940 SEATTLE OF APPROVED FOLIAL THE WORD "WATER" SHALL BE CAST IN RELIEF ON THE VALVE BOX COVER, VALVE BOX TOPS INSTALLED IN ARTERIAL ROADWAYS SHALL B MANUFACTURED BY EAST JORDAN (EJ) IRONWORKS MODEL 8555 WITH VALVE BOX COVER MODEL 6800 OR APPROVED EQUAL. NEAT LINE CUTS SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.

WATER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH DIVISION 7 OF THE WSDOT STANDARD SPECIFICATIONS SUPPLEMENTED WITH THE A. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C 151, THICKNESS CLASS 52, AND THE EXTERIOR SHALL BE COATED WITH COAL TAR VARNISH. PIPE AND FITTINGS SHALL BE MORTOR LINED AND SHALL CONFORM TO AWWA C 104. THE THICKNESS OF THE LINING SHALL BE NOT LESS THAN 1/16" THICK FOR 3" TO 12" PIPE, 3/32" THICK FOR 14" TO 24" PIPE, AND 1/8" THICK FOR 30" TO 54" PIPE. THE CEMENT LINING SHALL CONFORM TO THE DEPURE OF ASTRONOMY.

JOINTS SHALL BE TYTON PUSH-ON JOINTS, OR APPROVED EQUAL, OR MECHANICAL JOINT TYPE PER AWWA C 111 EXCEPT WHERE FLANGED JOINTS ARE

BOLTS AND NUTS FOR BURIED FLANGES LOCATED OUTDOORS, ABOVE GROUND, OR IN OPEN VAULTS IN STRUCTURES SHALL BE TYPE 316 STAINLESS STEEL COMFORMING TO ASTM A 193, GRADE BBM FOR BOLTS, AND ASTM A 194, GRADE BM FOR NUTS. BOLTS AND NUTS LARGER THAN ONE AND ONE-QUARTER (1-1/4) INCHES SHALL BE STEEL, ASTM A 307, GRADE B, WITH CADMIUM PLATING, ASTM A 165, TYPE NS.

D. BOLTS USED IN FLANGE INSTALLATION SETS SHALL CONFORM TO ASTM B 193, GRADE B7. NUTS SHALL COMPLY WITH ASTM A 194, GRADE 2H.

E. PROVIDE A WASHER FOR EACH NUT, WHERE NEEDED. WASHERS SHALL BE OF THE SAME MATERIAL AS THE NUTS.

F. ALL FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C 110 AND AWWA C 111.

G. RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR TEN (10) INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN TEN (10) INCHES.

1) RESILIENT SEATED WEDGE GATE VALVE: GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, DOUBLE-DISK GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE IRON-BODIED, BRONZE MOUNTED, NON-RISING STEM, WITH TWO (2) INCH SQUARE NUT. COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT AND / OR FLANGED ENDS (6" VALVES ON FIRE HYDRANT LINES WHICH SHALL BE MECHANICAL JOINTS BY FLANGED). VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY OR

2) BUTTERFLY VALVES: BUTTERFLY VALVES CONFORMING WITH AWWA C 504, CLASS 150 AND SHALL HAVE STANDARD AWWA TWO (2) INCH SQUARE NUT. DETECTABLE MARKING TAPE SHALL BE INSTALLED 18" ABOVE PIPE, BE BLUE IN COLOR, AND READ "CAUTION WATER LINE BELOW" MEETING WSDOT SPEC



PUYALLUI OFFICE THE CITY ENGINEER



OT TO SCALE)

WATER VALVES AND MAINS

03.01.01

TABLE 2: THRUST AT FITTINGS AT 200 PSI

		THRUST FITTINGS AT 200 PSI				
	TEST	A	В	С	D	E
SIZE	PRESSURE (PSI)	TEE AND DEAD ENDS	90° BEND	45° BEND	22.5° BEND	11.25* BEND
4"	200	3,140	4,440	2,405	1,225	615
6"	200	7,070	9,995	5,410	2,760	1,385
8"	200	12,565	17,770	9,620	4,905	2,465
10"	200	19,635	27,770	15,030	7,660	3,850
12*	200	28,275	39,985	21,640	11,030	5,545
14"	200	38,485	54,425	29,455	15,015	7,545
16"	200	50,265	71,085	38,470	19,615	9,855

TABLE 3: BEARING VALUE OF SOIL

SOIL TYPE	SAFE BEARING LOAD LBS/SF	
MUCK, PEAT, ETC.	0	
SOFT CLAY/ALLUVIAL SOIL	1,000	
SAND	2,000	
SAND AND GRAVEL	3,000	
SAND AND GRAVEL CEMENTED WITH CLAY	4,000	
HARD SHALE	10,000	

SEE CITY STANDARDS 03.02.01-1 AND 03.02.01-2 FOR ADDITIONAL INFORMATION.

) TO DETERMINE THRUST AT PRESSURES OTHER THAN PSI SHOWN, MULTIPLY THE THRUST OBTAINED IN TABLE 2 BY THE RATIO OF THE PRESSURE

EXAMPLE: THE THRUST ON A 12 INCH, 90° BEND AT 300 PSI.

 $39,985 \times \frac{300 \text{ PS}}{200 \text{ PS}} = 59,978 \text{ LBS}$

TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (SF):

SEE TABLE 3, BEARING VALUE OF SOIL

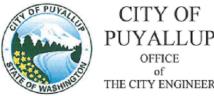
FOR SAND AND GRAVEL BEARING VALUE FROM TABLE 3 IS 3,000 LBS/SF

59,978 LBS + 3000 LB/SF = 20 SF OF AREA

CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE

AREAS SHALL BE ADJUSTED FOR OTHER PRESSURE CONDITIONS.

NO WATER MAIN SHALL DEAD END AGAINST A MAIN LINE VALVE. DEAD END WATER MAINS SHALL BE BLOCKED AGAINST A RESTRAINED MECHANICAL



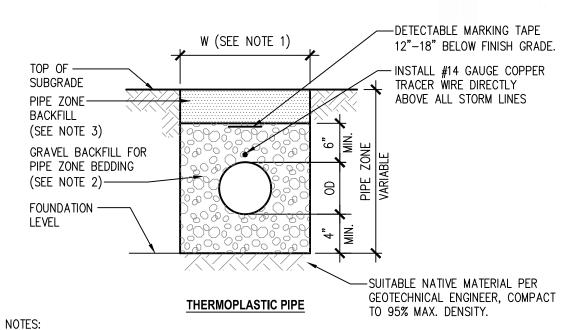


THRUST BLOCKING TABLE

DEAD END 90° BEND (COLUMN C) (COLUMN A) (COLUMNS B TO E) THRU LINE DIRECTION CHANGE CONNECTION, TEE TEE USED AS ELBOW CONNECTION, TEE (COLUMN A) (COLUMN B) (COLUMN C) THRU LINE CONNECTION, DIRECTION CHANGE CROSS USED AS ELBOW CROSS USED AS TEE (COLUMN B) (COLUMN A) UNBALANCED CROSS PLUGGED CROSS (COLUMN A) THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN CONSTRUCTING THRUST BLOCKS: A. BLOCKS MUST BE POURED OR PLACED AGAINST UNDISTURBED SOIL. B. THE PIPE FITTING(S) AND BOLTS MUST BE ACCESSIBLE. WRAP IN PLASTIC BEFORE POURING CONCRETE BLOCKING. C. CONCRETE SHOULD BE CURED FOR AT LEAST 5 DAYS AND SHOULD HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AT 28 D. RESTRAINED JOINTS SHALL BE INSTALLED, IN ADDITION TO CONCRETE THRUST BLOCKING. E. BLOCKS MUST BE POSITIONED TO COUNTERACT THE DIRECTION OF THE RESULTANT THRUST FORCE. ALL PIPE SHALL BE PROPERLY BEDDED, SEE CITY OF PUYALLUP STANDARD BEDDING DETAIL NO. 06.01.01. CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE. DIVIDE THRUST BY SAFE BEARING LOAD TO DETERMINE REQUIRED AREA (IN SQUARE FEET) OF CONCRETE TO DISTRIBUTE LOAD. BEARING SURFACE AREAS TO BE ADJUSTED BY THE ENGINEER FOR OTHER PRESSURE AND/OR SOIL CONDITIONS. HORIZONTAL THRUST **BLOCKING** OFFICE 03.02.01-THE CITY ENGINEER NOT TO SCALE)

NOTE: DRAWINGS DEPICT BLOCK LOCATION, NOT SIZE.

FOR SIZE SEE NOTES 3, 4, 5, AND CITY STD. 03.02.01-3

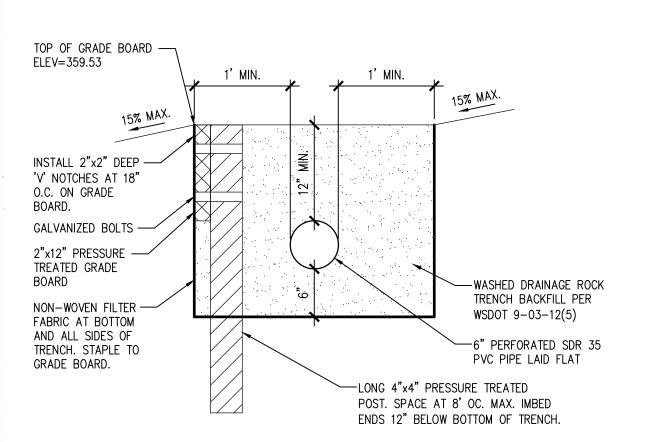


1) TRENCH WIDTH SHALL BE AS SPECIFIED IN SECTION 2-09.4 OF THE WSDOT STANDARD SPECIFICATIONS. EXCAVATIONS SHALL COMPLY WITH WAC 296-155, PART N REQUIREMENTS

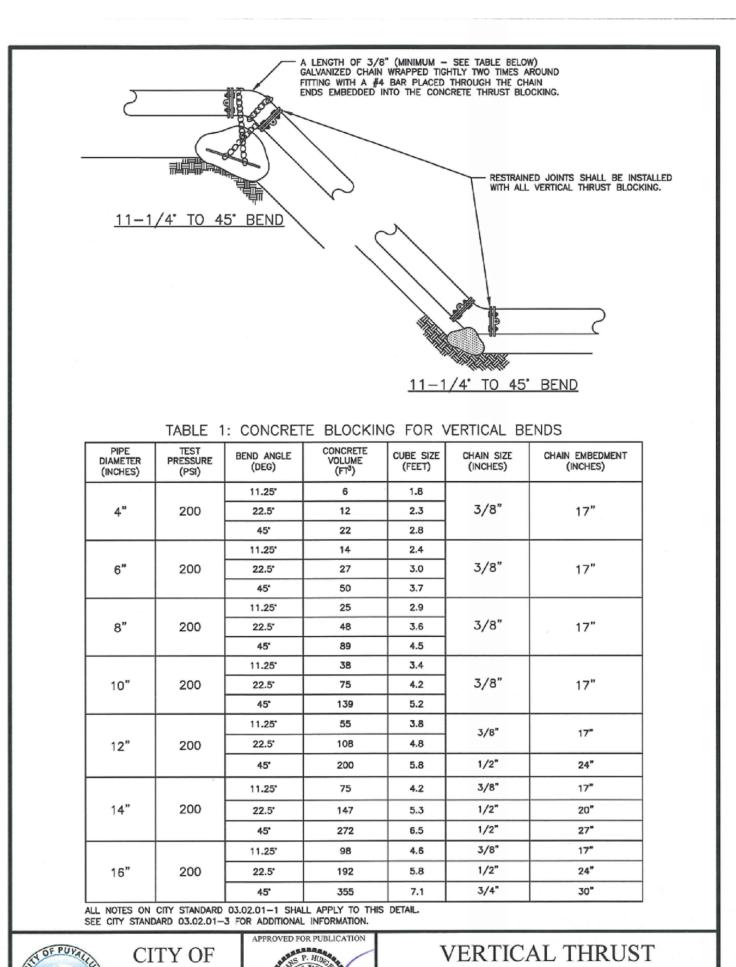
2) GRAVEL BACKFILL FOR PIPE ZONE BEDDING SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 9-03.12 (3). FOR DUCTILE IRON AND PEA GRAVEL FOR THERMOPLASTIC PIPE EXCEPT FOR FOOTING DRAIN PIPE.

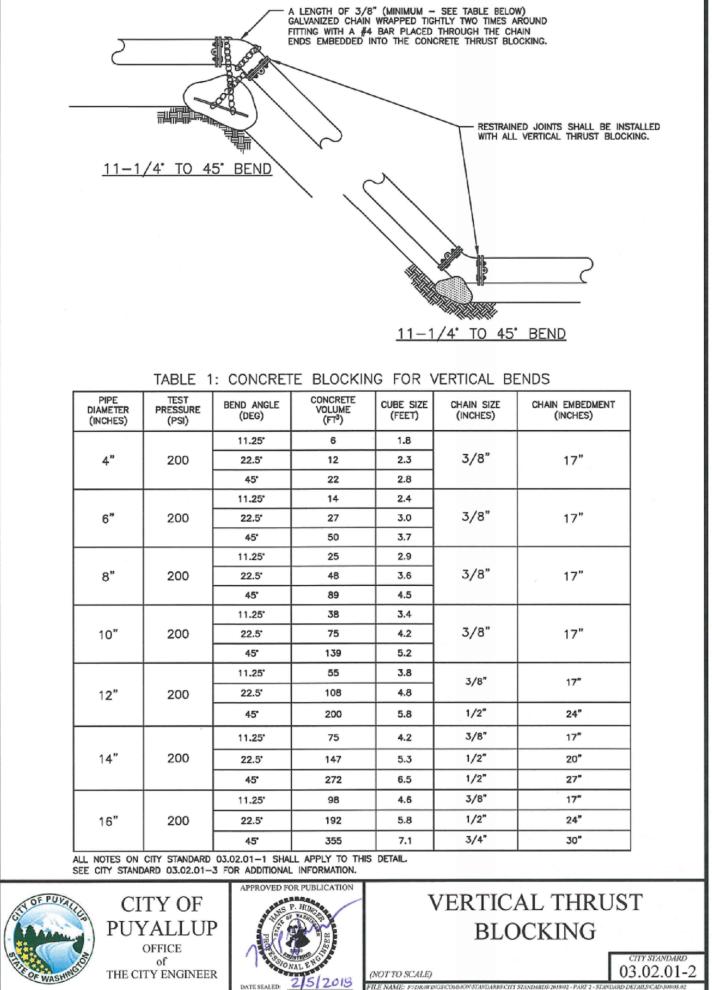
3) PIPE ZONE BACKFILL SHALL BE NATIVE SOIL IN ACCORDANCE WITH SPECIFICATION

NOTITIES PIPE ZONE BEDDING AND BACKFILL



SECTION AT DISPERSION TRENCH





-LOOP END OF TRACER WIRE

IN CLEANOUT CASTING

FLOW

H-20 RATED, LOCKING SOLID

COVER W/ STAINLESS STEEL

SET SCREW. COVER SHALL

BE STAMPED: "CO". OFCO

M1007 D/T OR EQUAL.—

PROVIDE 12" RADIUS OR

SQUARE CONCRETE COLLAR

FLUSH W/ FINISH GRADE —

FIBER JOINT PACKING -

√ 6" STORM DRAIN CLEAN-OUT

6" Ø P.V.C. PIPE -

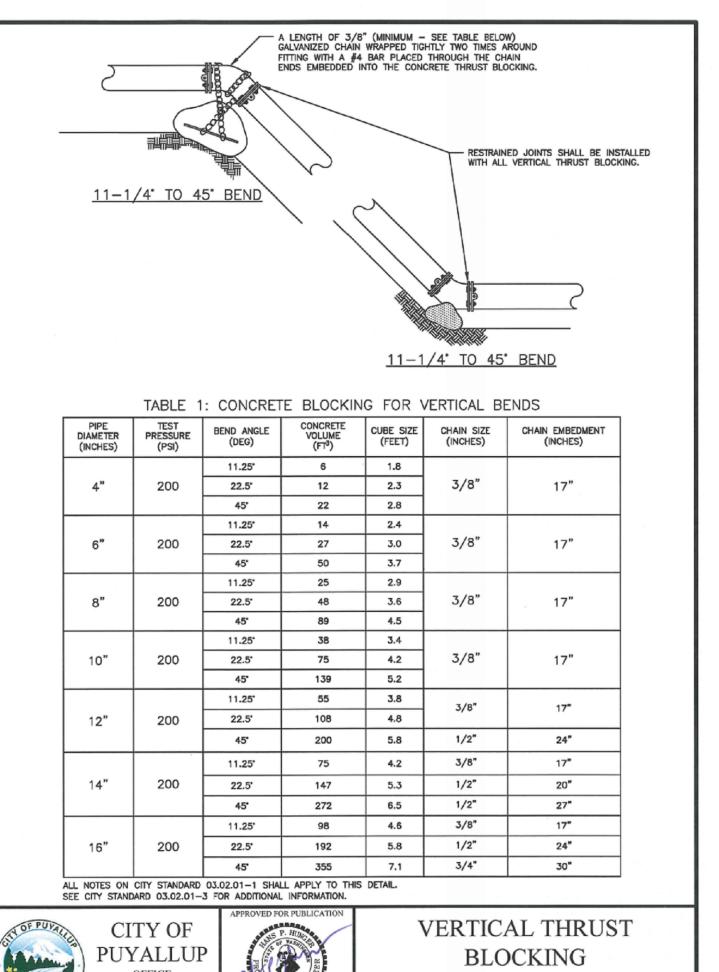
1/8 BEND ---

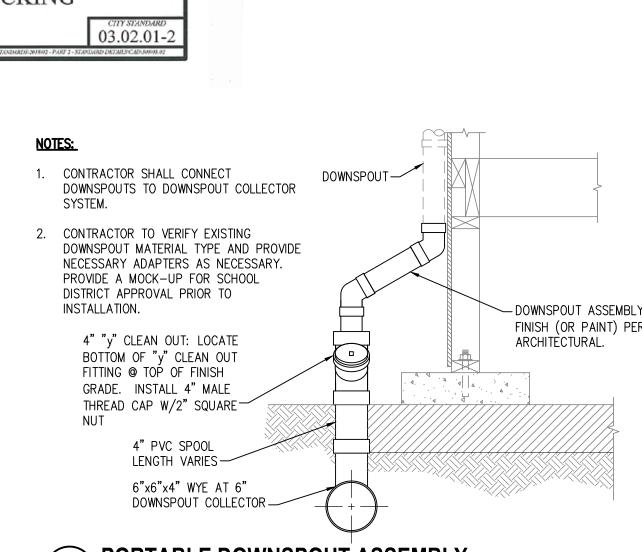
6" P.V.C. WYE —

#14 TRACER WIRE -

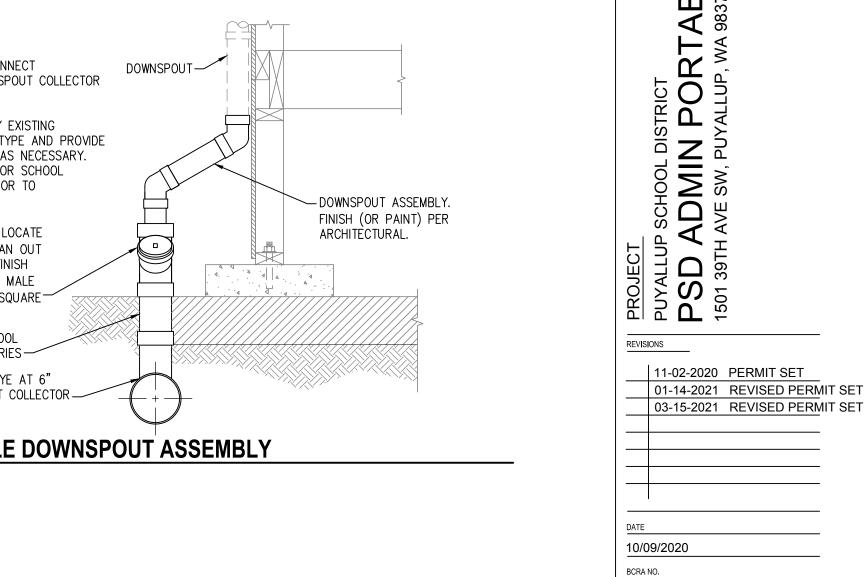
8" Ø PIPE —

IN LANDSCAPE AREAS ONLY





PORTABLE DOWNSPOUT ASSEMBLY



APPROVED

CITY OF PUYALLUP

DEVELOPMENT SERVICES

NOTE: THIS APPROVAL IS VOID

RESPONSIBLE FOR ERRORS

AND/OR OMISSIONS ON THESE

FIELD CONDITIONS MAY DICTATE

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Call 811 two business days

before you dig

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THE CITY WILL NOT BE

APPROVAL DATE.

ENGINEER

APPROVED

FRUITLAND MUTUAL WATER COMPANY

3/16/2021

THIS APPROVAL IS VOID AFTER

THE CITY WILL NOT BE

180 DAYS FROM APPROVAL DATE.

RESPONSIBLE FOR ERRORS AND/O

FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

DETERMINED BY THE WATER

PURVEYOR.

OMISSIONS ON THESE PLANS.

CIVIL | STRUCTURAL | SURVEY 4815 CENTER STREET | TACOMA, WA. 98409 PHONE: (253) 474-9449 FAX: (253) 474-0153

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REVIEWED BY: SHEET TITLE

DETAILS

3

IF SHEET MEASURES LESS THAN 24"X36", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

Project No.: 18,980 | Project Mgr.: