

GENERAL NOTES

- ALL CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL CONFORM TO THE LATEST STANDARDS AND PRACTICES OF MULTNOMAH COUNTY, THE OREGON STRUCTURAL SPECIALTY CODE (BUILDING CODE), OREGON PLUMBING SPECIALTY CODE (PLUMBING CODE), AND THE OREGON FIRE CODE (FIRE CODE), LATEST EDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH THE OWNER.
- ALL PERMITS AND LICENSES NECESSARY FOR THE EXECUTION AND COMPLETION OF THE WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
- THE ENGINEER OR OWNER IS NOT RESPONSIBLE FOR THE SAFETY OF THE CONTRACTOR OR THE CREW. ALL O.S.H.A. REGULATIONS SHALL BE STRICTLY ADHERED TO IN THE PERFORMANCE OF THE WORK.
- HUMBER DESIGN GROUP, INC. ASSUMES NO RESPONSIBILITY FOR ANY DISCREPANCIES ENCOUNTERED BETWEEN THE CURRENT FIELD CONDITIONS AND THE INFORMATION SHOWN ON THE SURVEY MAP. THE CONTRACTOR IS RESPONSIBLE FOR REPORTING ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
- WORK IN THE RIGHT-OF-WAY TO BE PERFORMED TO THE PUBLIC STANDARDS, SPECIFICATIONS, AND DETAILS OF THE JURISDICTION HAVING AUTHORITY.
- CONTRACTOR SHALL HAVE AN APPROVED SET OF PERMIT PLANS ON SITE AT ALL TIMES.
- CONTRACTOR SHALL SCHEDULE, REQUEST, AND COORDINATE ALL REQUIRED INSPECTIONS REQUIRED BY THE CONTRACT, ENGINEERS, OR PERMITTING JURISDICTIONS.

EARTHWORK, EXCAVATION, AND GRADING NOTES

- GENERAL:
- ALL EXCAVATORS MUST COMPLY WITH THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER, INCLUDING NOTIFICATION OF ALL OWNERS OF UNDERGROUND UTILITIES AT LEAST 48 BUSINESS DAY HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090 AND ORS 757.541 TO 757.57. THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503-232-1987 AND THE LOCAL "CALL 48 HOURS BEFORE YOU DIG NUMBER" IS 503-246-6699.
 - THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS IS FOR INFORMATION ONLY AND IS NOT GUARANTEED TO BE ACCURATE. CONTRACTOR SHALL VERIFY ELEVATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF HUMBER DESIGN GROUP, INC. POTHOLE ALL CROSSINGS AS NECESSARY BEFORE CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS
 - CONTRACTOR SHALL EXERCISE CARE IN ALL OPERATIONS TO PROTECT EXISTING UTILITIES, POLES, AND STRUCTURES. ANY DAMAGE RESULTING FROM THIS WORK MUST BE RESTORED AT THE CONTRACTOR'S EXPENSE TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
 - CONTRACTOR SHALL REPLACE AND RESTORE AREAS NOT SCHEDULED FOR CONSTRUCTION TO THEIR ORIGINAL CONDITION AND TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
 - ACTUAL LINES AND GRADES OF EXCAVATION SHALL BE STAKED BY QUALIFIED SURVEYOR, BASED ON DIMENSIONS AND BEARINGS AS SHOWN ON THE PLANS. CONTRACTOR SHALL RETAIN A SURVEYOR LICENSED IN OREGON.

ADDITIONAL GEOTECHNICAL RECOMMENDATIONS:
6. ALL EARTHWORK ACTIVITIES SHALL BE COMPLETED PER RECOMMENDATIONS IN THE SOILS REPORT PREPARED BY XXXGEOTECHNAMEXXX. DATED XXXGEODATEXXX.

- TREES:
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS ADJACENT TO EXISTING TREES IN ORDER TO MINIMIZE DISTURBANCES TO TREE ROOTS. CONTRACTOR SHALL INSTALL TREE PROTECTION FENCING AS INDICATED ON PLANS OR AT DRIP-LINE OF EXISTING TREES IF TREE PROTECTION PLANS ARE NOT AVAILABLE.
 - NO PARKING VEHICLES UNDER TREES.
 - ALL EARTH DISTURBING ACTIVITIES ADJACENT TO EXISTING TREES TO REMAIN SHALL BE COMPLETED PER RECOMMENDATIONS IN THE ARBORIST REPORT PREPARED BY XXXARBORNAMEXXX. DATED XXXARBORDATEXXX

- FINAL GRADING:
- CONSTRUCTED SURFACES SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
 - PEDESTRIAN WALKWAYS, 2.0% MAX. CROSS SLOPE PERPENDICULAR TO THE DIRECTION OF TRAVEL
 - ADA PARKING STALLS, 2.0% MAX. SLOPE, ANY DIRECTION
 - ADA PARKING ACCESS AISLES, 2.0% MAX. SLOPE ANY DIRECTION.
 - SIDEWALK OR RAMP LANDINGS, 2.0% MAX. SLOPE, ANY DIRECTION.
 - ASPHALT, 1.0% MIN. TO DRAIN
 - CONCRETE, 0.5% MIN. TO DRAIN
 - CONCRETE GUTTERS, 0.3% MIN. TO DRAIN

*CONTRACTOR SHALL NOTIFY HUMBER DESIGN GROUP, INC. OF ANY DISCREPANCIES ENCOUNTERED TO THE REQUIREMENTS ABOVE PRIOR TO CONSTRUCTION.

- ADJUST ALL INCIDENTAL STRUCTURES, MANHOLE LIDS, VALVE BOXES, ETC. TO FINISH GRADE.

MATERIAL NOTES

- GENERAL:
- MATERIALS SHALL BE NEW, THE USE OF MANUFACTURERS' NAMES, MODELS, AND NUMBERS IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, AND USEFULNESS.

- PROPOSED SUBSTITUTIONS WILL REQUIRE WRITTEN APPROVAL FROM HUMBER DESIGN GROUP, INC. PRIOR TO INSTALLATION.
- ALL ON-SITE WATER, STORM, AND SANITARY SEWER PIPE MATERIALS AND FITTINGS SHALL CONFORM TO THE OREGON STATE PLUMBING SPECIALTY CODE, LATEST EDITION.
- IN GROUND MATERIALS MUST ALSO BE APPROVED FOR UNDER BUILDING APPLICATIONS PER THE PLUMBING CODE IF RUNNING UNDER CANOPIES OR OTHER STRUCTURES.

- GAS:
- CONTRACTOR SHALL CONTACT AND COORDINATE MATERIALS ASSOCIATED WITH NATURAL GAS SERVICE INSTALLATIONS DIRECTLY WITH NATURAL GAS PROVIDER.

- PRIVATE FIRE:
- ON-SITE FIRE SERVICE 4-INCH DIAMETER AND LARGER SHALL BE EITHER DUCTILE IRON PIPE, CLASS 52, CONFORMING TO AWWA C151 OR PVC AWWA PIPE, CLASS 150, CONFORMING TO AWWA C900 UNLESS ONE MATERIAL IS SPECIFICALLY CALLED FOR ON THE PLANS. PIPES MUST BE RESTRAINED WITH APPROVED MECHANICAL RESTRAINTS OR CONCRETE THRUST BLOCKING.

- MATERIALS RELATED TO PUBLIC CONNECTIONS, SERVICE VAULTS, FIRE HYDRANTS AND SERVICE LATERALS IN THE RIGHT-OF-WAY OR PUBLIC EASEMENTS SHALL BE INSTALLED PER THE JURISDICTION HAVING AUTHORITY.

- STORM:
- ON-SITE STORM SEWER PIPE SHALL BE PVC PIPE CONFORMING TO ASTM D3034 SDR 35, OR HDPE PIPE (ADS "N-12" OR APPROVED EQUAL) CONFORMING TO AASHTO M252 W/WATERTIGHT JOINTS, OR APPROVED SUBSTITUTIONS.
 - ON-SITE STORM SEWER PIPE WITH LESS THAN 2-FEET OF COVER SHALL BE HDPE PIPE.
 - ON-SITE AREA DRAINS SHALL BE MANUFACTURED BY LYNCH CO., INC. OR APPROVED EQUAL.

- WATER:
- ON-SITE WATER SERVICES 4-INCH DIAMETER AND LARGER SHALL BE EITHER DUCTILE IRON PIPE, CLASS 52, CONFORMING TO AWWA C151 OR PVC AWWA PIPE, CLASS 150, CONFORMING TO AWWA C900 UNLESS ONE MATERIAL IS SPECIFICALLY CALLED FOR ON THE PLANS. PIPES MUST BE RESTRAINED WITH APPROVED MECHANICAL RESTRAINTS OR CONCRETE THRUST BLOCKING.

- ON-SITE WATER SERVICE SMALLER THAN 4-INCH DIAMETER SHALL BE COPPER TUBING CONFORMING TO ASTM886, SILVER SOLDER, OR APPROVED SUBSTITUTIONS
- MATERIALS RELATED TO PUBLIC CONNECTIONS, WATER METERS, AND BACK FLOW DEVICES AND ASSOCIATED SERVICE LATERALS IN THE RIGHT-OF-WAY OR PUBLIC EASEMENTS SHALL BE INSTALLED PER THE JURISDICTION HAVING AUTHORITY.

UTILITY NOTES

- GENERAL:
- VERIFY ELEVATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF HUMBER DESIGN GROUP, INC. POTHOLE ALL CROSSINGS AS NECESSARY BEFORE CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS

- CONTRACTOR TO ADJUST ALL EXISTING OR NEW FLEXIBLE UTILITIES (WATER, GAS, TV, TELEPHONE, ELECTRICAL, ETC.) TO CLEAR ANY EXISTING OR NEW GRAVITY DRAIN UTILITIES (STORM DRAIN, SANITARY SEWER, ETC.) IF CONFLICT OCCURS.

- CONNECTIONS TO EXISTING UTILITIES SHALL CONFORM WITH THE REQUIREMENTS OF THE JURISDICTION HAVING AUTHORITY

- TRENCHING:
- ALL PRIVATE TRENCH BACKFILL SHALL BE AS SHOWN ON THE PIPE BEDDING AND BACKFILL DETAIL. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER IS NOT PERMITTED.
 - TRENCHING IN THE PUBLIC RIGHT-OF-WAY SHALL BE PER THE JURISDICTION HAVING AUTHORITY.

- SANITARY/SEWER:
- BEGIN LAYING STORM PIPE AT THE LOW POINT OF THE SYSTEM TRUE TO GRADE AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERT. ESTABLISH LINE AND GRADE FOR THE STORM PIPE BY THE USE OF A LASER.

- EXISTING STORM LATERALS TO BE UTILIZED FOR NEW SYSTEM MUST BE VIDEO INSPECTED WITH CITY INSPECTOR PRESENT PRIOR TO CONNECTION.

- ALL NEW DRYWELLS MUST BE ACCESSIBLE PER OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS.

- CONTRACTOR SHALL VACUUM OUT ALL TRAPPED INLETS, MANHOLES, AND DRYWELLS AT END OF PROJECT.

- CONTRACTOR SHALL PREVENT SEDIMENTS FROM ENTERING THE STORM DRAINAGE SYSTEM.

- WATER/FIRE:
- ALL WATER AND FIRE PROTECTION PIPE SHALL HAVE MINIMUM 36-INCH COVER TO FINISHED GRADE.

- ALL WATER AND FIRE LINES SHALL BE THOROUGHLY FLUSHED, CHLORINATED AND TESTED IN ACCORDANCE WITH THE OREGON STATE HEALTH DEPARTMENT PRIOR TO ANY METER HOOK-UP SERVICE.

- CONTRACTOR SHALL MAINTAIN A MINIMUM 10-FOOT HORIZONTAL AND 18-INCH VERTICAL SEPARATION BETWEEN ALL EXISTING AND PROPOSED WATER AND SEWER LINES.

- FOR CROSSINGS OF WATER LINES AND SANITARY SEWER LINES, THE OREGON STATE HEALTH DEPARTMENT CRITERIA SHALL APPLY.

- DOMESTIC WATER SERVICE BACKFLOW ASSEMBLY SHALL BE INSTALLED PRIOR TO ANY BRANCHES IN THE DOMESTIC PLUMBING SYSTEM.

- BACKFLOW ASSEMBLY(S) TO BE INSTALLED AT THE POINT WHERE THE WATER SERVICE ENTERS THE PROPERTY. IF APPROVED TO BE INSTALLED INSIDE OF BUILDING, ASSEMBLY(S) MUST BE INSTALLED AT THE POINT WHERE SERVICE ENTERS, BETWEEN 1 AND 5-FEET ABOVE THE FLOOR.

- IF THE REDUCE PRESSURE (RP) BACKFLOW ASSEMBLY IS REQUIRED IT MUST BE INSTALLED AT LEAST 12-INCHES ABOVE FINISHED GRADE. RP DEVICE IS REQUIRED IF PROJECT IS HARVESTING RAINWATER.

- LANDSCAPE IRRIGATION POINT-OF-CONNECTION TO DOMESTIC WATER SYSTEM MUST OCCUR DOWNSTREAM OF THE DOMESTIC WATER SERVICE BACKFLOW PROTECTION.

EROSION CONTROL NOTES

- GENERAL:
- EROSION CONTROL MEASURE SHALL BE IN ACCORDANCE WITH ALL OF THE LATEST STATE AND LOCAL JURISDICTIONAL REQUIREMENTS. ADDITIONAL REQUIREMENTS MAY BE LISTED UNDER JURISDICTION SPECIFIC NOTES.

- IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT LEAVE THE WORK SITE. THE CONTRACTOR SHALL USE ALL AVAILABLE MEANS TO ACHIEVE THIS RESULT.

- THE IMPLEMENTATION OF THESE ESC/P AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC/P FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.

- THE ESC/P FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC/P FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.

- LIMITS OF WORK:
- THE BOUNDARY OF THE CLEARING LIMITS SHOWN ON THESE PLANS SHALL BE CLEARLY FLAGGED OR FENCED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED/FENCED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING/FENCING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

- INSTALLATION AND REMOVAL TIMELINE:
- THE ESC/P FACILITIES SHOWN ON THESE PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.

- IN GENERAL, CONSTRUCTION SHALL PROGRESS FROM DOWNSTREAM TO UPSTREAM. THE CONTRACTOR SHALL CONSTRUCT ESC FACILITIES IN CONJUNCTION WITH ALL CLEARING, GRADING AND OTHER LAND ALTERATION ACTIVITIES.

- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

- TEMPORARY EROSION CONTROL MEASURES SHALL REMAIN FUNCTIONAL AND IN PLACE UNTIL PROJECT COMPLETION. THE CONTRACTOR SHALL COMPLETELY RESTORE ALL AREAS DISTURBED BY REMOVAL OF TEMPORARY EROSION CONTROL MEASURES. REMOVED MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR TO BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND JURISDICTIONS.

- SUPPLEMENTARY WET WEATHER MEASURES SHALL BE IN PLACE AND FUNCTIONING BY OCTOBER 1 AND REMAIN OPERATIONAL UNTIL APRIL 30. SUPPLEMENTAL WET WEATHER MEASURES ARE IN ADDITION TO BASE MEASURES.

- SIGNIFICANT AMOUNTS OF SEDIMENT THAT LEAVE THE SITE SHALL BE CLEANED UP WITHIN 24 HOURS AND PLACED BACK ON THE SITE OR PROPERLY DISPOSED.

- ALL EROSION AND SEDIMENT CONTROLS NOT IN THE DIRECT PATH OF WORK SHALL BE INSTALLED BEFORE ANY LAND DISTURBANCE.

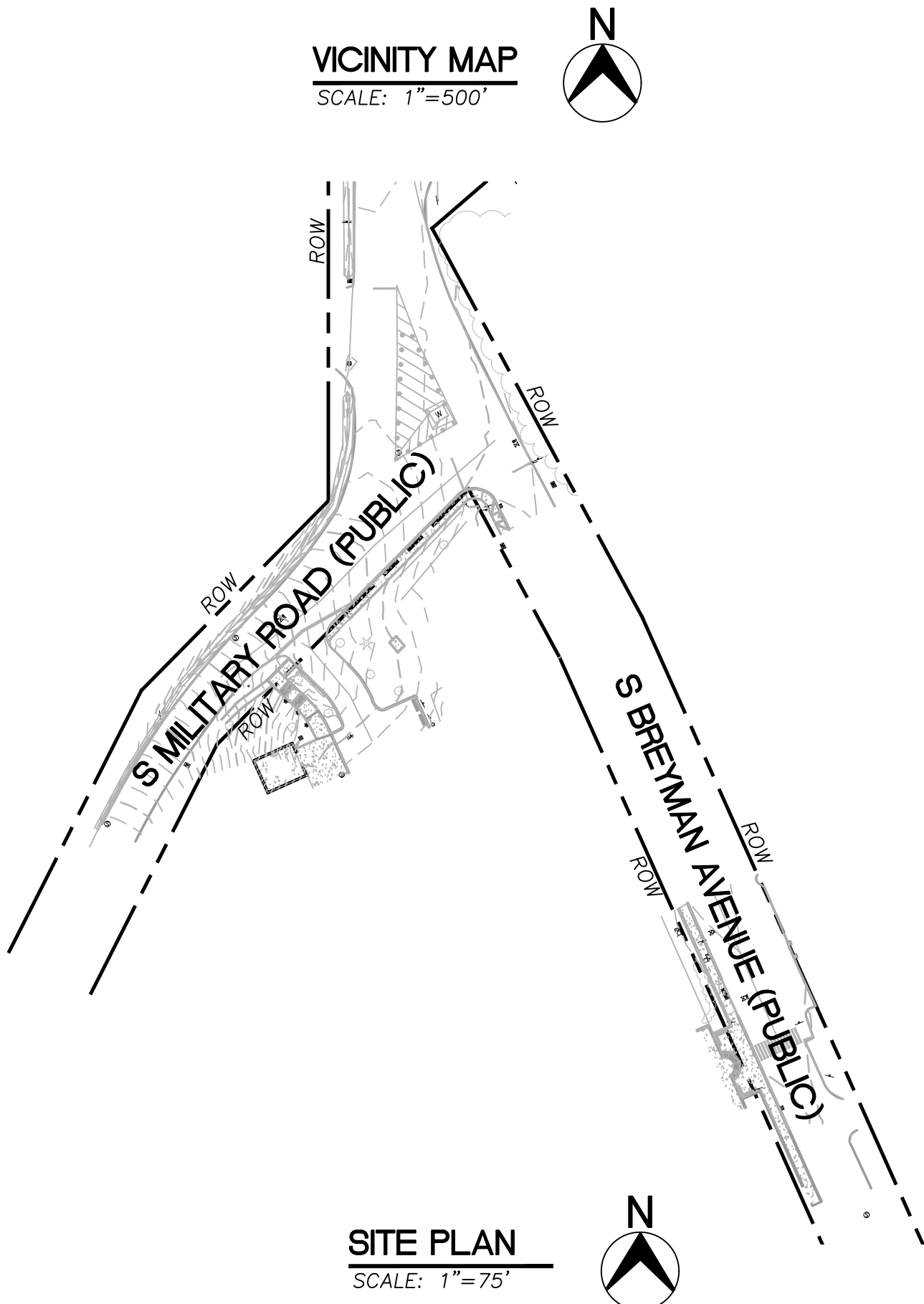
- INSPECTIONS:
- THE ESC/P FACILITIES SHALL BE INSPECTED DAILY BY CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

- THE ESC/P FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITH IN THE 24 HOURS FOLLOWING A STORM EVENT.

- TRANSPORT:
- CONTRACTOR MUST PROVIDE TRUCKS THAT ARE WELL SEALED FOR TRANSPORTATION OF SATURATED SOILS/MATERIAL FROM THE SITE. A TRUCK MUST NOT LEAK LIQUIDS AT ANY RATE GREATER THAN 1 GAL./HR.

- WHEN CONCRETE TRUCKS ARE USED, A SHALLOW PIT SHALL BE DUG OR "ECO-PAN" PROVIDED FOR RESIDUAL CONCRETE, AGGREGATE AND WATER. TRUCKS THAT RECYCLE THIS RESIDUAL BACK INTO THE TRUCK MAY BE USED IN LIEU OF THE PIT OR PAN.

- INLETS:
- ALL STORM INLETS IN THE CLEARING LIMITS AND WITHIN 200 FEET OF THE CLEARING LIMITS SHALL BE PROTECTED TO PREVENT SEDIMENT FROM LEAVING THE PROJECT SITE. CLEANING OF CATCH BASINS SHALL OCCUR WHEN SEDIMENT CONSUMES ONE-THIRD OF THE DEVICE STORAGE AREA. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.



EROSION CONTROL NOTES CONT.

- LANDSCAPING:
- IF FERTILIZERS ARE USED TO ESTABLISH VEGETATION, THE APPLICATION RATES SHALL FOLLOW THE MANUFACTURER'S GUIDELINES AND THE APPLICATION SHALL BE DONE IN SUCH A WAY TO MINIMIZE NUTRIENT-LADEN RUNOFF TO RECEIVING WATERS.

- ALL AREAS DISTURBED BY CONSTRUCTION OF THIS PROJECT, NOT RECEIVING A HARD, DURABLE SURFACE SHALL BE GRASSED AND/OR LANDSCAPED AT EARLIEST PRACTICABLE TIME.

- STOCKPILES:
- STOCKPILES SHALL BE LOCATED AWAY FROM THE CONSTRUCTION ACTIVITY AND SHALL BE STABILIZED OR COVERED AT THE END OF EACH WORKDAY.

- SILT FENCE SHALL BE INSTALLED AROUND STOCEPILES ALONG THE CONTOURS WHERE POSSIBLE PER THE SILT FENCE DETAIL.

- DUST CONTROL:
- DUST SHALL BE MINIMIZED TO THE EXTENT PRACTICABLE, UTILIZING ALL MEASURES NECESSARY, INCLUDING, BUT NOT LIMITED TO:

- SPRINKLER HAUL AND ACCESS ROADS AND OTHER EXPOSED DUST PRODUCING AREAS.
- APPLYING AGENCY-APPROVED DUST PALLIATIVES ON ACCESS AND HAUL ROADS.
- ESTABLISHING TEMPORARY VEGETATIVE COVER.
- PLACING WOOD CHIPS OR OTHER EFFECTIVE MULCHES ON VEHICLE AND PEDESTRIAN USE AREAS.
- MAINTAINING THE PROPER MOISTURE CONDITION ON ALL FILL SURFACES.
- PREWETTING CUT AND BORROW AREA SURFACES.
- USE OF HAUL EQUIPMENT.

- CONTRACTOR SHALL FURNISH AND INSTALL EQUIPMENT TO HAUL AND PLACE WATER. AN ADEQUATE SUPPLY OF WATER SHALL BE MAINTAINED AT ALL TIMES.

- SILT FENCE/STRAW WATTLES:
- FOR SILT FENCE INSTALLATIONS: THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY OVERLAP 2-INCHX2-INCH POSTS AND ATTACH AS SHOWN IN SEDIMENT FENCE DETAIL.

- SILT FENCE AND STRAW WATTLES SHALL BE INSTALLED TO FOLLOW THE CONTOURS WHERE FEASIBLE.

- IN AREAS OF HEAVY TREE ROOTS OR OTHER OBSTRUCTIONS STRAW WATTLES MAY BE USED IN LIEU OF SILT FENCE WITH JURISDICTIONAL INSPECTOR AND ENGINEERING APPROVAL.

- SILT FENCES AND STRAW WATTLES SHALL BE INSPECTED BY CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS, RELOCATIONS, OR ADDITIONS SHALL BE MADE IMMEDIATELY.

- AT NO TIME SHALL MORE THAN 1/3 OF THE HEIGHT OF THE WATTLE OF SILT FENCE OF SEDIMENT BE ALLOWED TO ACCUMULATE UP SLOPE OF A SILT FENCE. SEDIMENT SHALL BE REMOVED OR RE-GRADED ONTO SLOPES AND THE SILT FENCE OR WATTLE REPAIRED AND REESTABLISHED.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		MANHOLE
		CATCH BASIN
		FIRE DEPARTMENT CONNECTION
		FIRE HYDRANT
		WATER VALVE
		UTILITY POLE
		SIGN
		MAILBOX
		LIGHT POLE
		TREE
		PROPERTY LINE
		CENTERLINE
		CONTOUR
		SAWCUT LINE
		EDGE OF PAVEMENT
		CURB
		STORM DRAIN
		SANITARY SEWER
		WATER
		UNDERGROUND POWER
		OVERHEAD POWER
		GAS

ABBREVIATIONS

AC	ASPHALT CONCRETE	OHP	OVERHEAD POWER
CB	CATCH BASIN	PBOT	PORTLAND BUREAU OF TRANSPORTATION
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
COP	CITY OF PORTLAND	ROW	RIGHT-OF-WAY
CSP	CORRUGATED STEEL PIPES	S=	SLOPE EQUALS
DWG.	DRAWING	SD	STORM DRAIN
EX./(E)	EXISTING	SF	SQUARE FEET
FG	FINISHED GRADE	SHT	SHEET
FF	FIRE HYDRANT	SS	SANITARY SEWER
GB	GRADE BREAK	STD.	STANDARD
H	HEIGHT	STL	STEEL
IE	INVERT ELEVATION	SW	SIDEWALK
LF	LINEAR FEET	TC	TOP OF CURB
L=	LANDSCAPE	TD	TRENCH DRAIN
MAX.	MAXIMUM	TP	TOP OF PAVEMENT
MH	MANHOLE	TW	TOP OF WALL
MIN.	MINIMUM	THP.	TYPICAL
NO.	NUMBER	W	WATER
N/S	NOT TO SCALE	WV	WATER VALVE
ODOT	OREGON DEPARTMENT OF TRANSPORTATION		

ARCHITECT/ENGINEER

OWNER:
RIVERDALE SCHOOL DISTRICT
11733 S BREYMAN AVENUE
PORTLAND, OR 97219
(503)282-4840
CONTACT: CHRIS RUSSO

CIVIL ENGINEER:
HUMBER DESIGN GROUP, INC.
110 SE MAIN ST, SUITE 200
PORTLAND, OR 97214
(503)946-5370
CONTACT: DAVE HUMBER, P.E.

SURVEY

SURVEY PROVIDED BY NORTHWEST SURVEYING, INC., DATED FEBRUARY 17, 2026. ALL ELEVATIONS BASED ON CITY OF PORTLAND BENCHMARK NO. #3509. THE BENCHMARK IS A BRASS DISK LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF S BREYMAN AVENUE AND S MILITARY ROAD, ELEVATION: 274.001'

NORTHWEST SURVEYING, INC.
1815 NW 169TH PLACE, SUITE 2090
BEAVERTON, OR 97006
(503)848-2179
CONTACT: CLINTON H. STUBBS JR.

SHEET INDEX

C000	COVER SHEET
C050	DEMOLITION PLAN
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C200	STANDARD DETAILS
C201	STANDARD DETAILS
C202	STANDARD DETAILS
C203	STANDARD DETAILS

COVER SHEET

RIVERDALE ELEMENTARY SCHOOL

RIVERDALE SCHOOL DISTRICT

11733 S BREYMAN AVENUE, PORTLAND, OR 97219

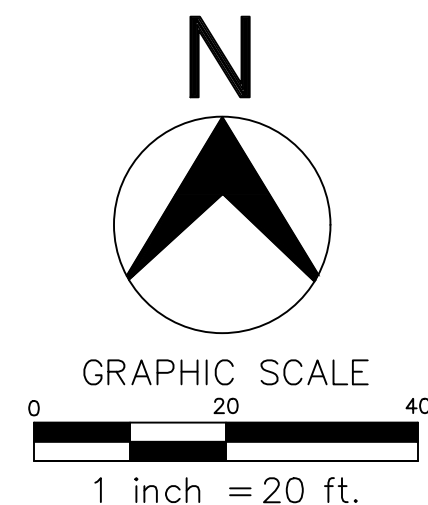
PROJECT NO.	DATE	DESCRIPTION
TB0001	02/27/2026	COVER SHEET
DESIGN BY:		
REVIEWED BY:		
DATE:		

SHEET NO.

C000

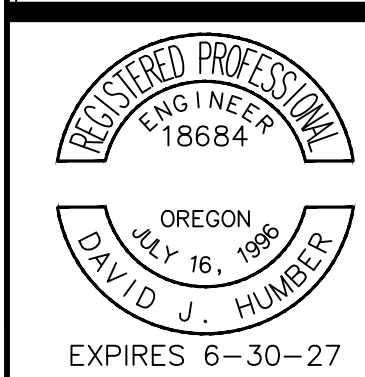
Humber Design Group, Inc.

REGISTERED PROFESSIONAL ENGINEER
18684
OREGON
DIVISION J. HUMBER
EXPIRES 6-30-27



DEMOLITION PLAN
SCALE: 1"=20'

ITEM	DESCRIPTION	REFERENCE
	DEMOLISH A.C. PAVEMENT	
	DEMOLISH CONCRETE PAVEMENT	
---	EXISTING CONTOUR	
- - - - -	SAWCUT	
— — — — —	LIMITS OF WORK	
· X · X · X · X ·	DEMO ASPHALT BERM	



DEMOLITION PLAN

RIVERDALE ELEMENTARY SCHOOL

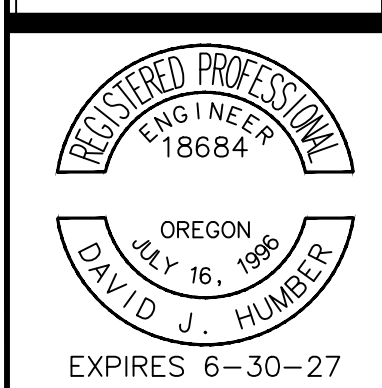
RIVERDALE SCHOOL DISTRICT
11733 S BREYMAN AVENUE, PORTLAND, OR 97219

[illegible]

PROJECT NO.:	TBG001
DRAWN BY:	JKB
DESIGN BY:	AX
REVIEWED BY:	DJH
DATE:	02/27/2026

SHEET NO.

C050



CIVIL SITE PLAN - OVERALL

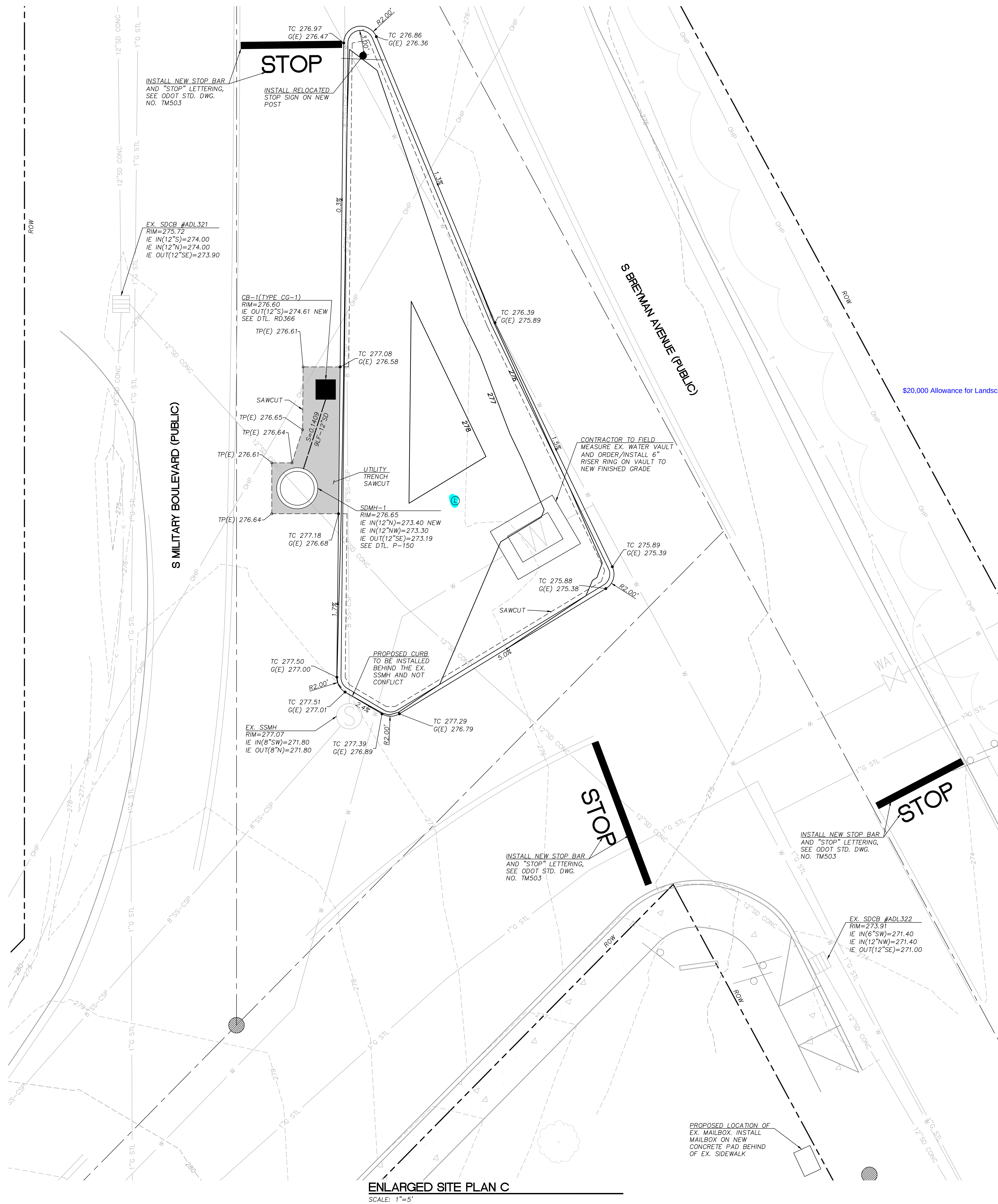
RIVERDALE ELEMENTARY SCHOOL

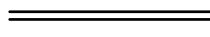
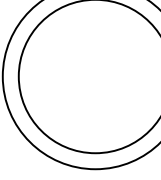
RIVERDALE ELEMENTARY SCHOOL
RIVERDALE SCHOOL DISTRICT
11733 S BREYMAN AVENUE, PORTLAND, OR 97219

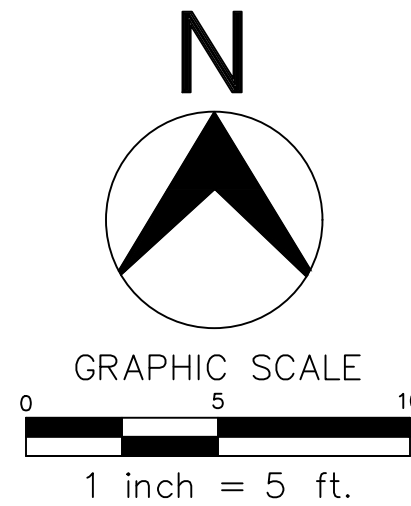
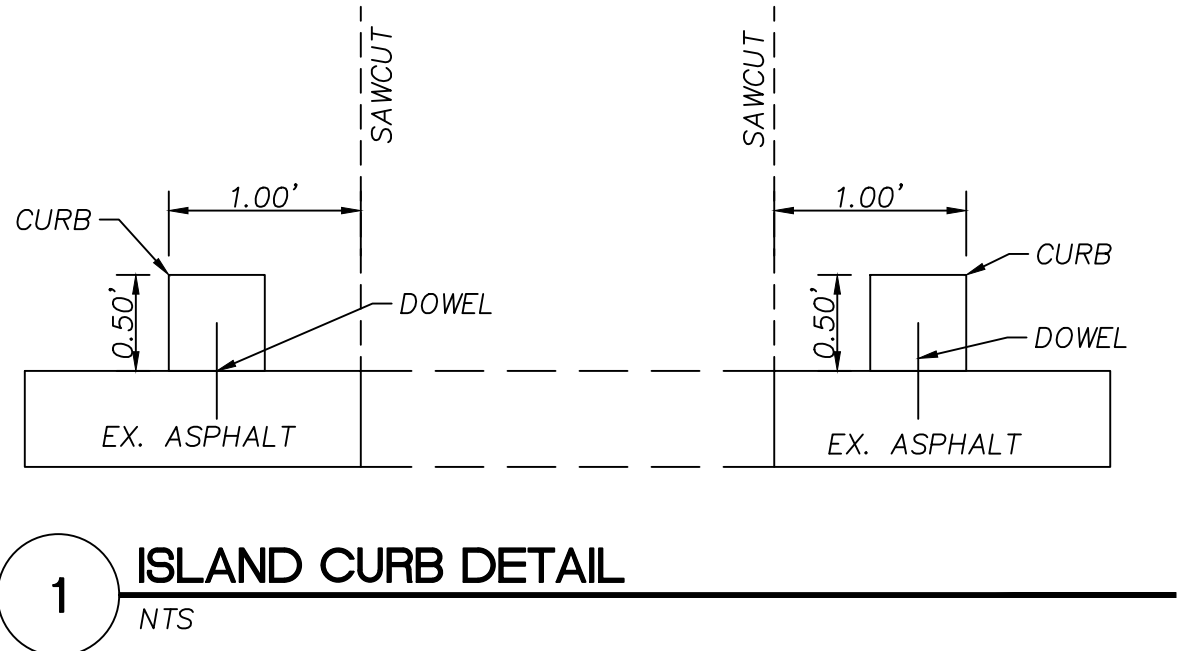
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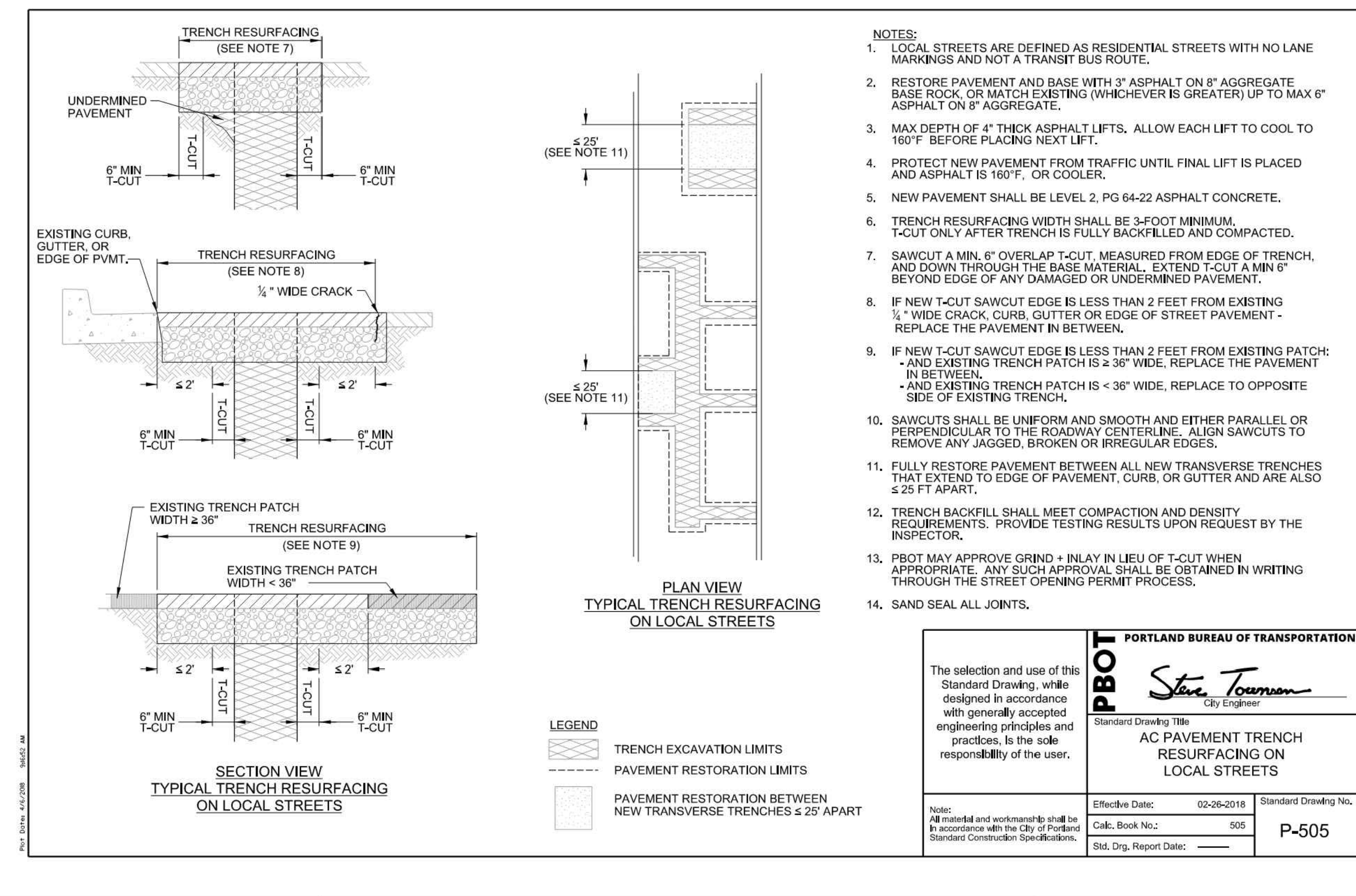
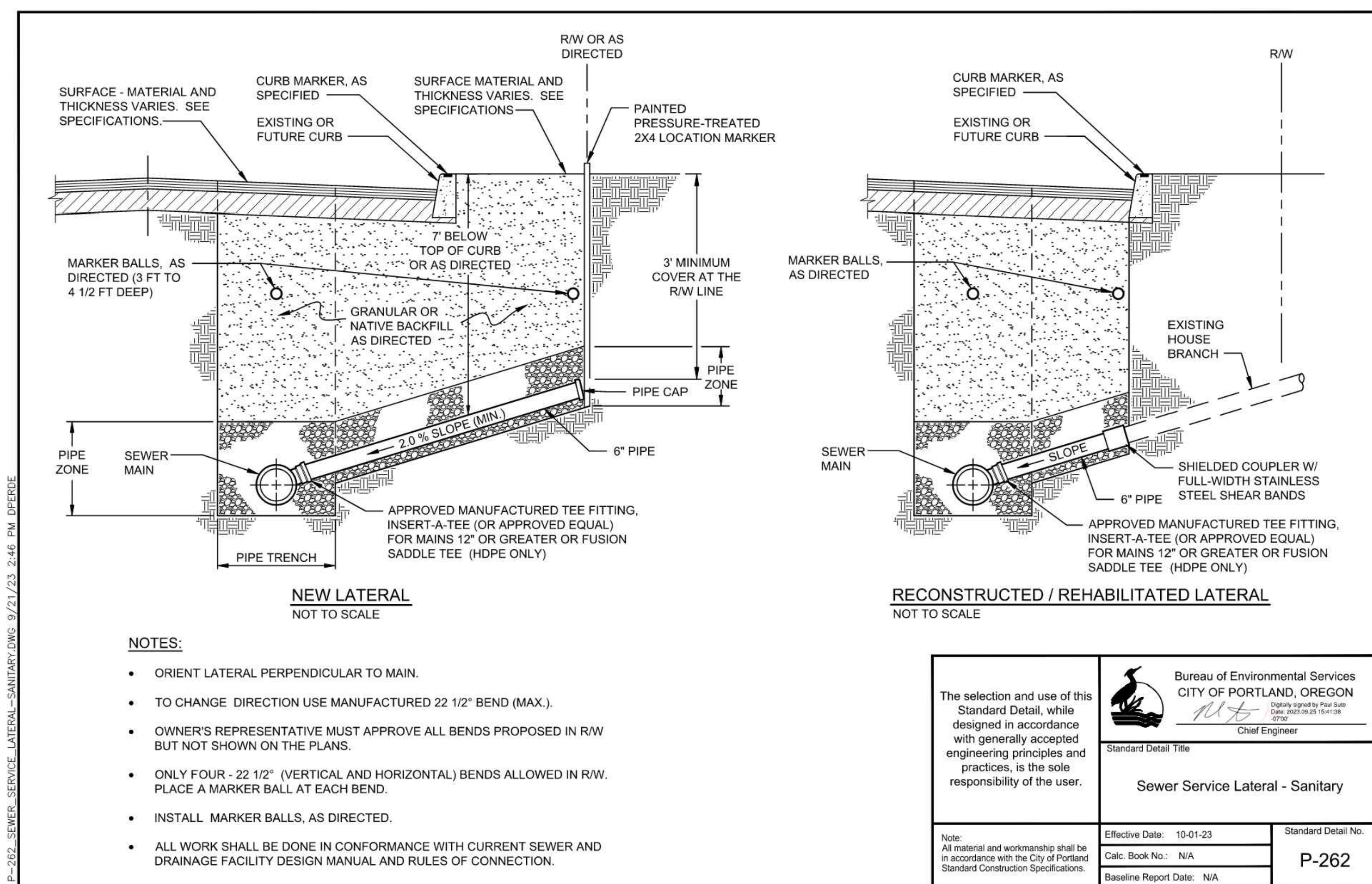
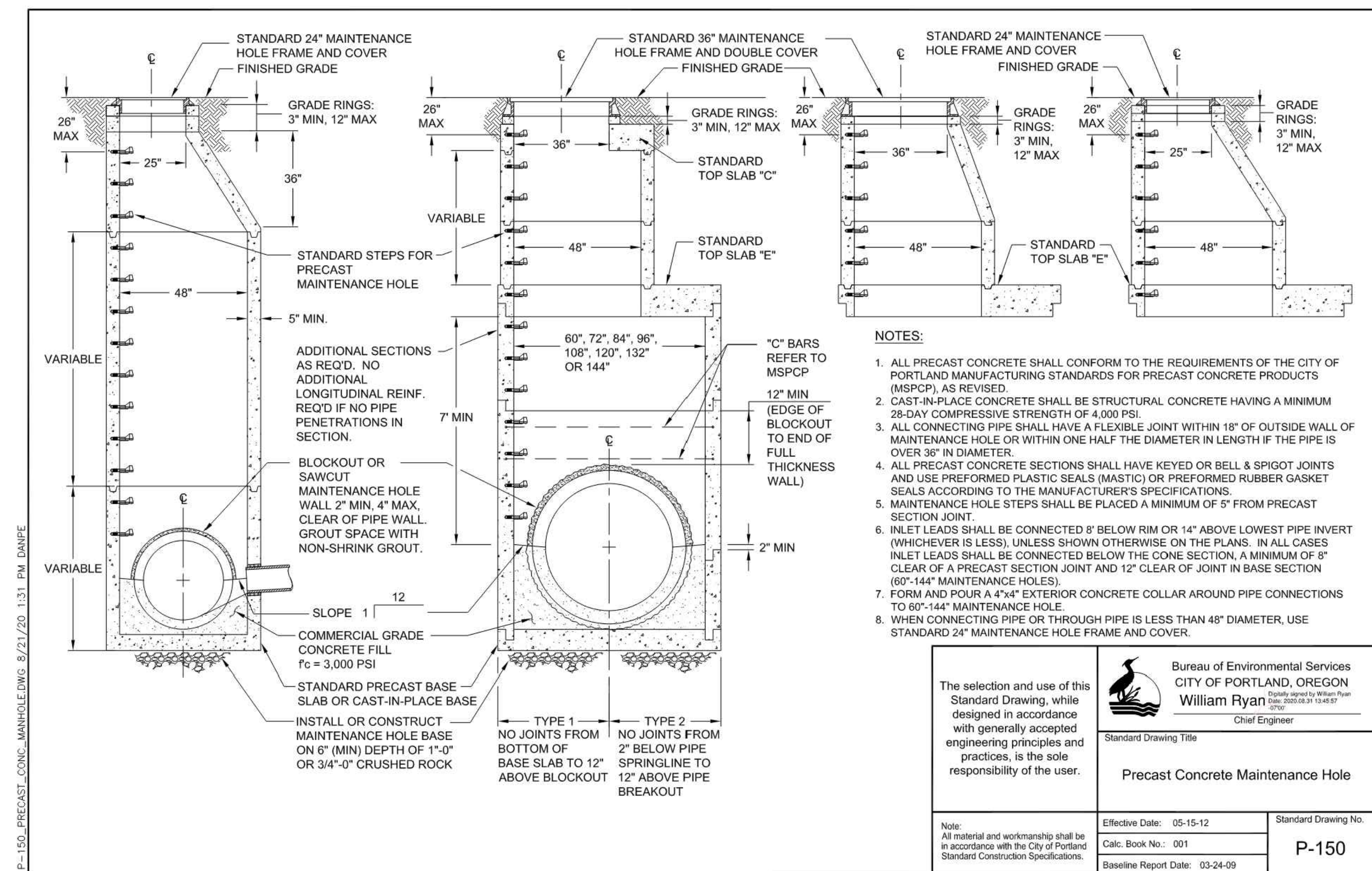
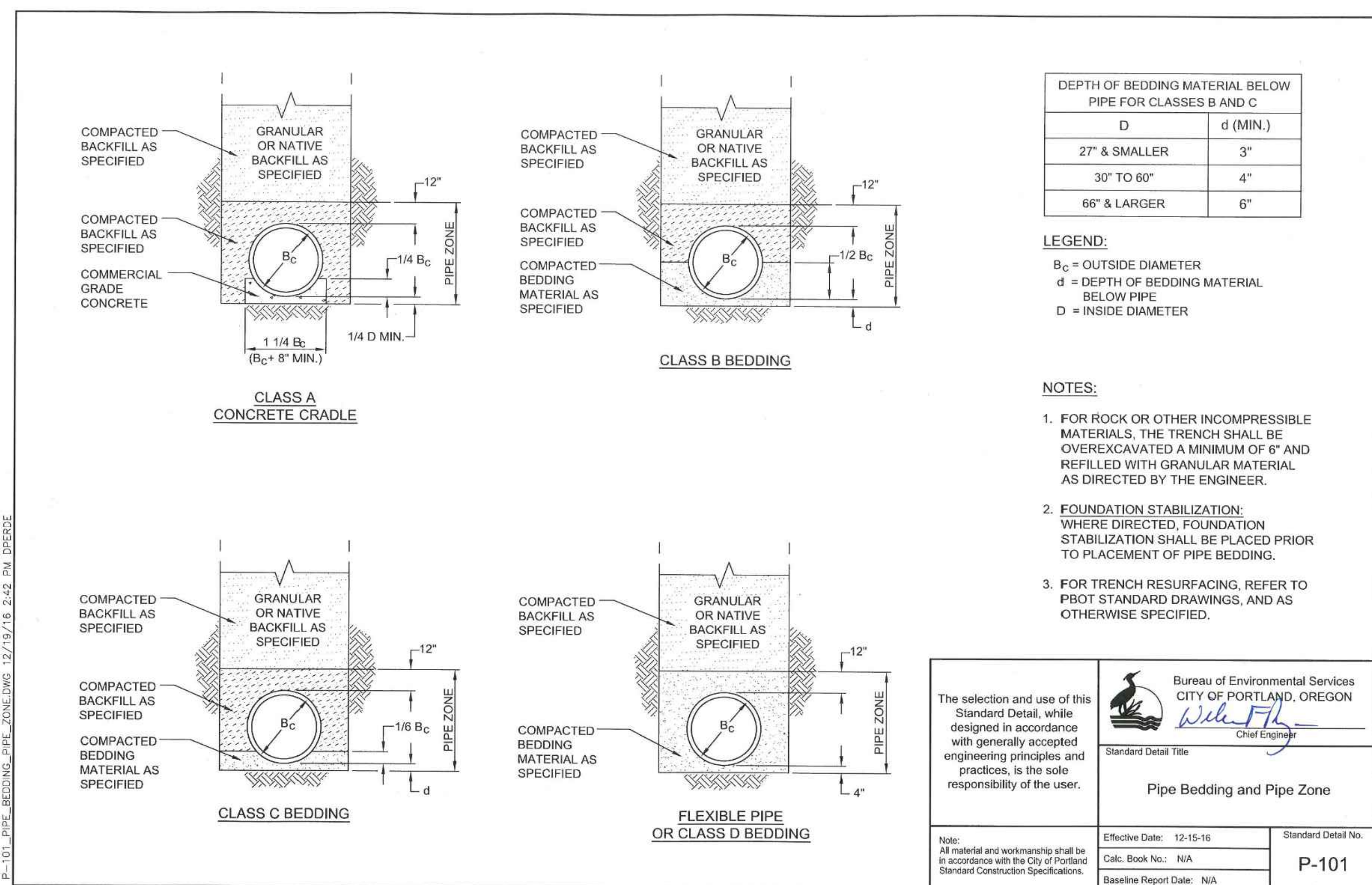
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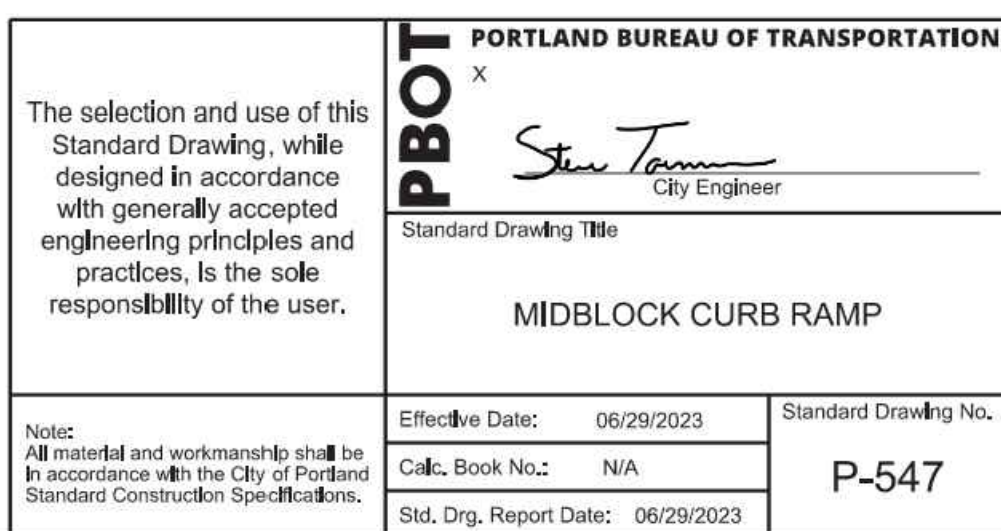
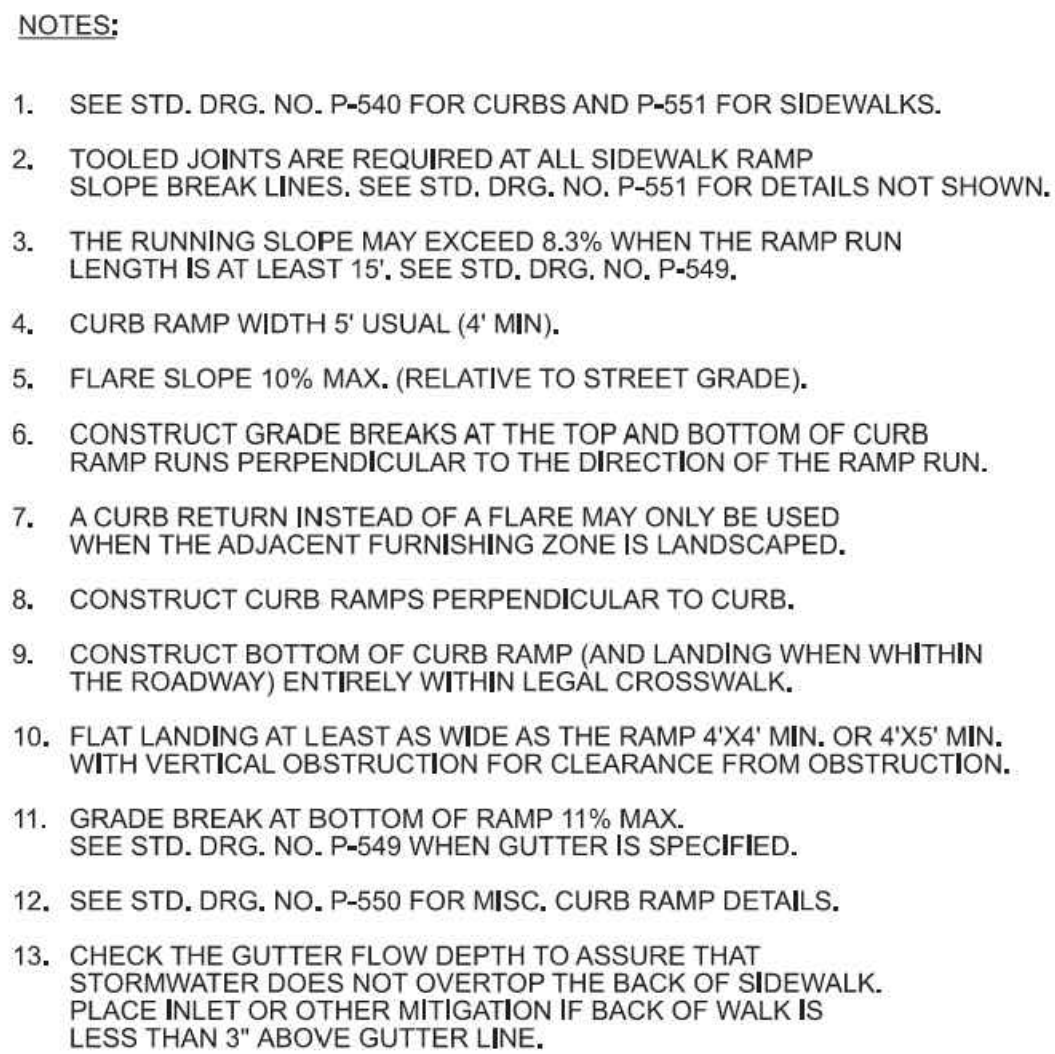
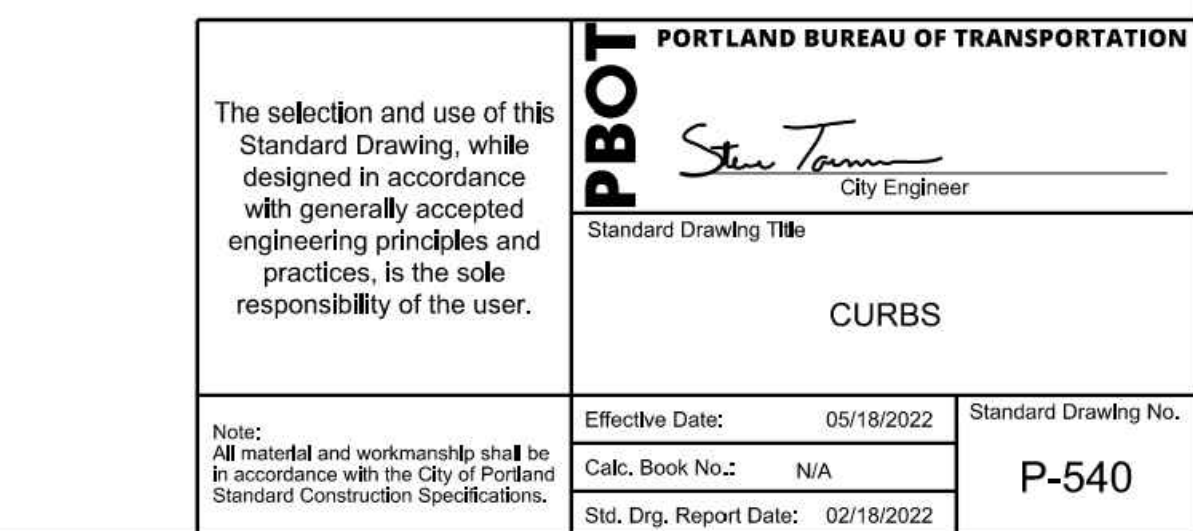
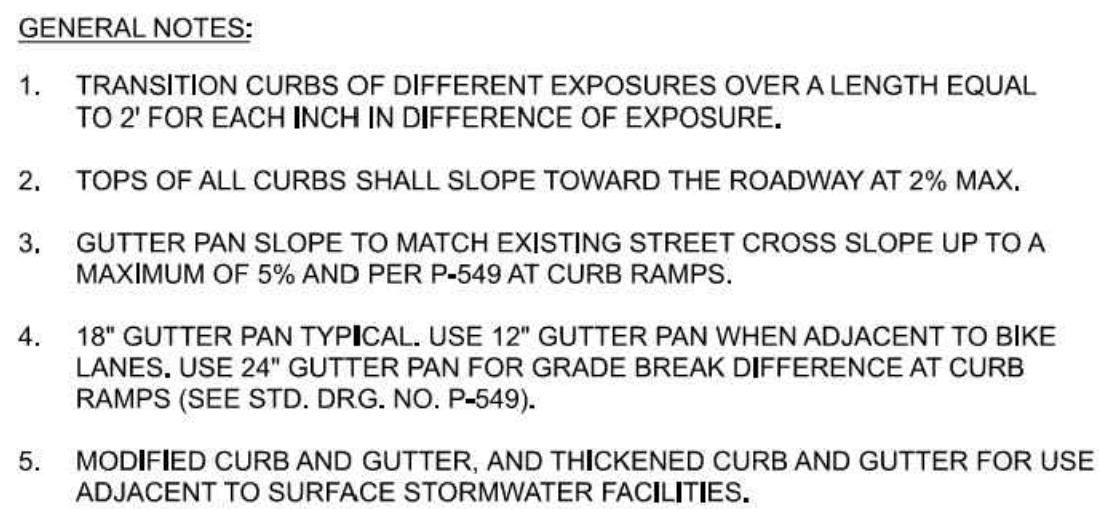
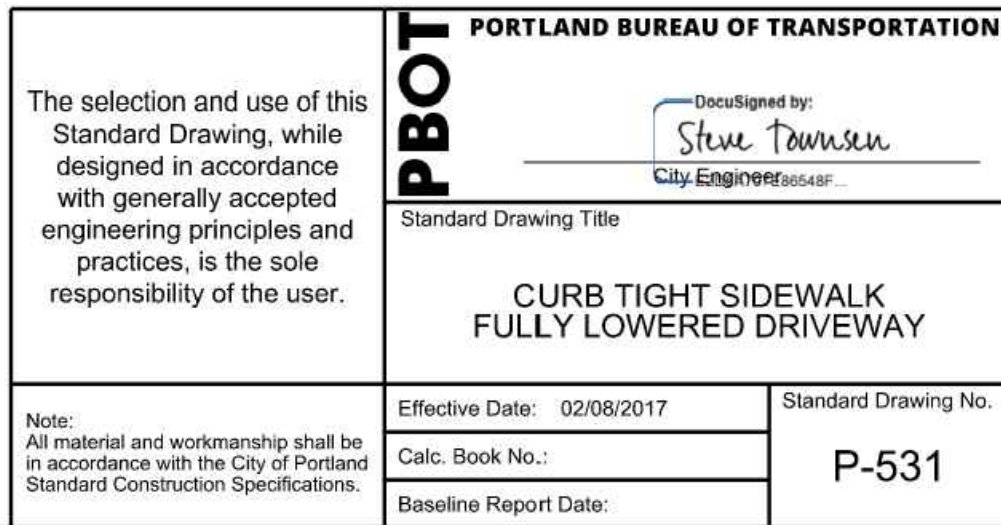
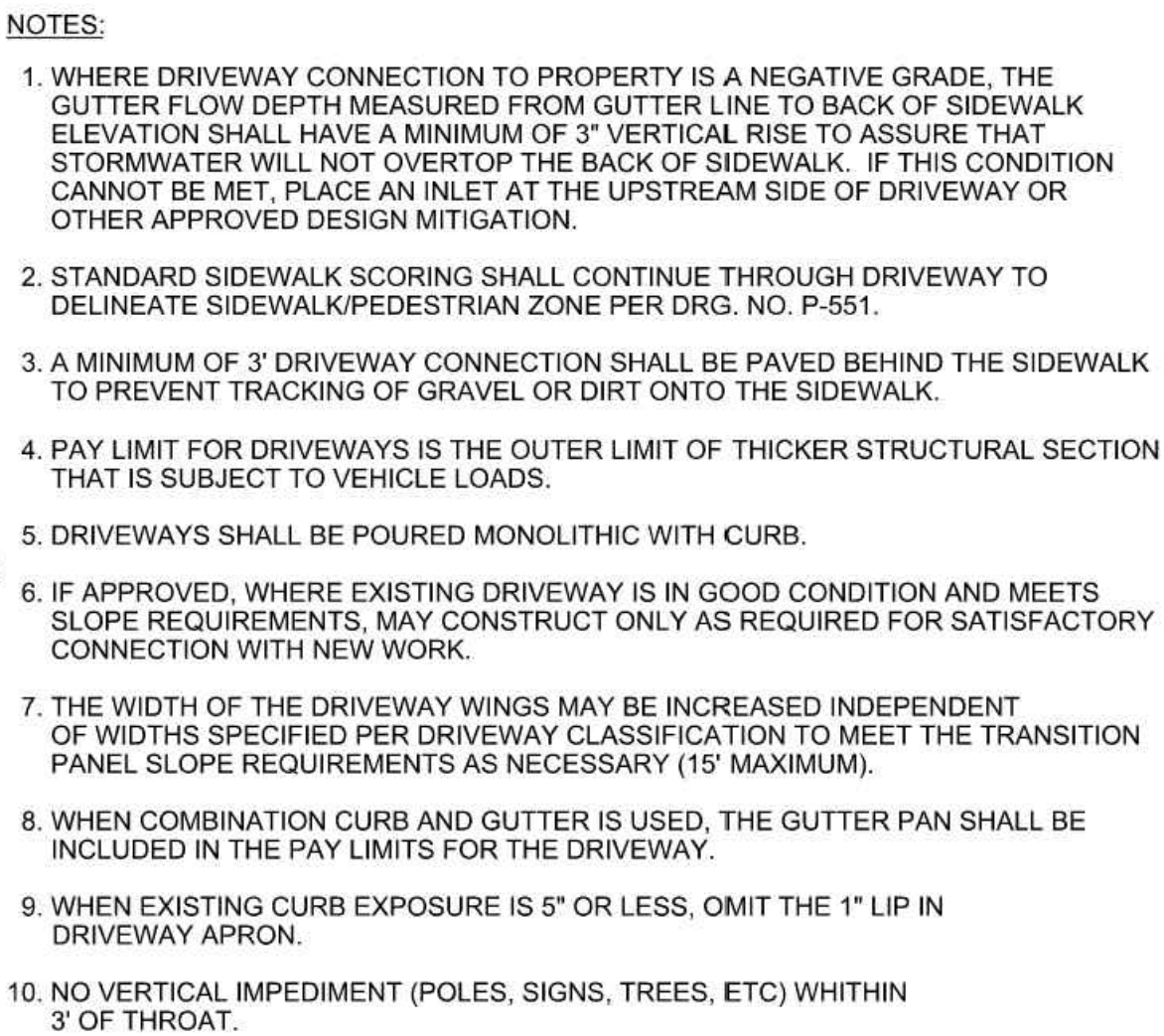
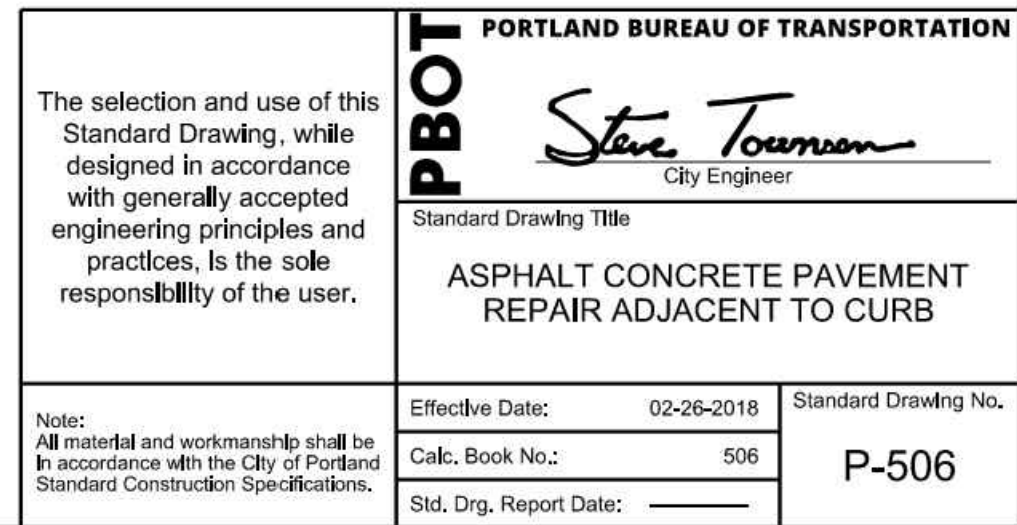
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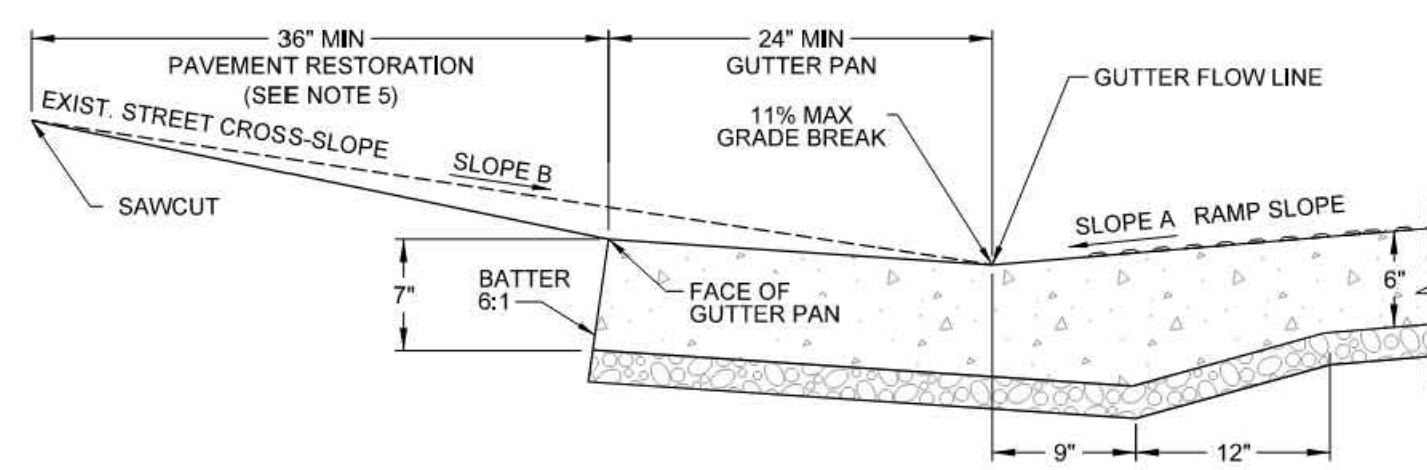
SHEET LEGEND		
ITEM	DESCRIPTION	REFERENCE
	ONSITE ASPHALT PAVEMENT	SEE PBOT STD. DWG. NO. P-506
	~~CONCRETE~~ STANDARD CURB	SEE DTL 1, SHT C102
	STORM DRAIN (SD)	SEE PBOT STD. DWG. NO. P-262
	CATCH BASIN (CB)	SEE ODOT STD. DWG. NO. RD366
	STORM DRAIN MANHOLE (SDMH)	SEE PBOT STD. DWG. NO. P-150
	LANDSCAPE	SEE L-SHTS
	SIGN	
	PROPOSED CONTOUR	
	EXISTING CONTOUR	
TC XXX.XX FG XXX.XX TP XXX.XX BW XXX.XX TW XXX.XX G XXX.XX (E)  X.X% GB	GRADE AT TOP OF CURB FINISH GRADE GRADE AT TOP OF PAVEMENT GRADE AT BOTTOM OF WALL GRADE AT TOP OF WALL GRADE AT GUTTER EXISTING SLOPE ARROW GRADE BREAK	



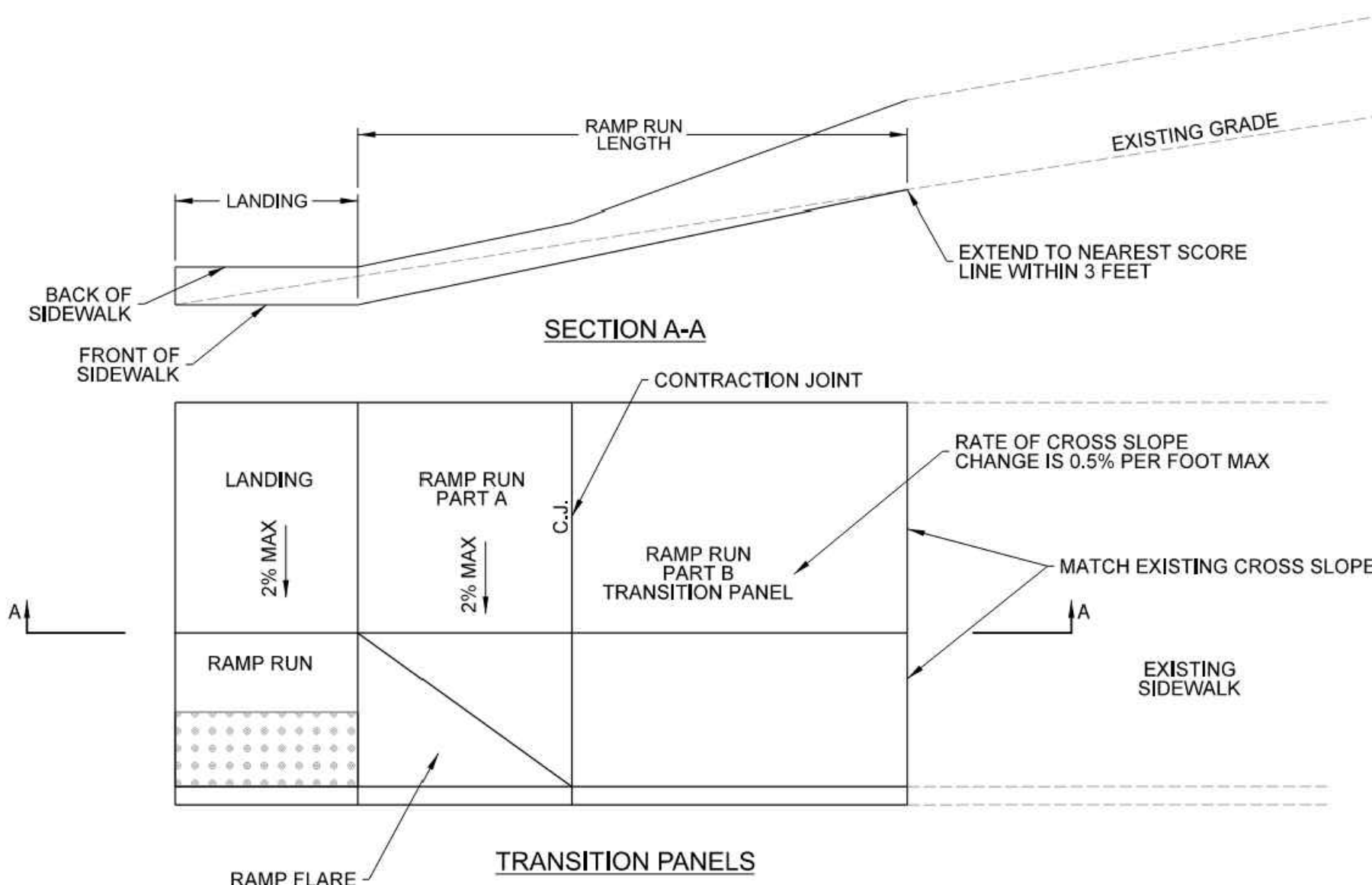




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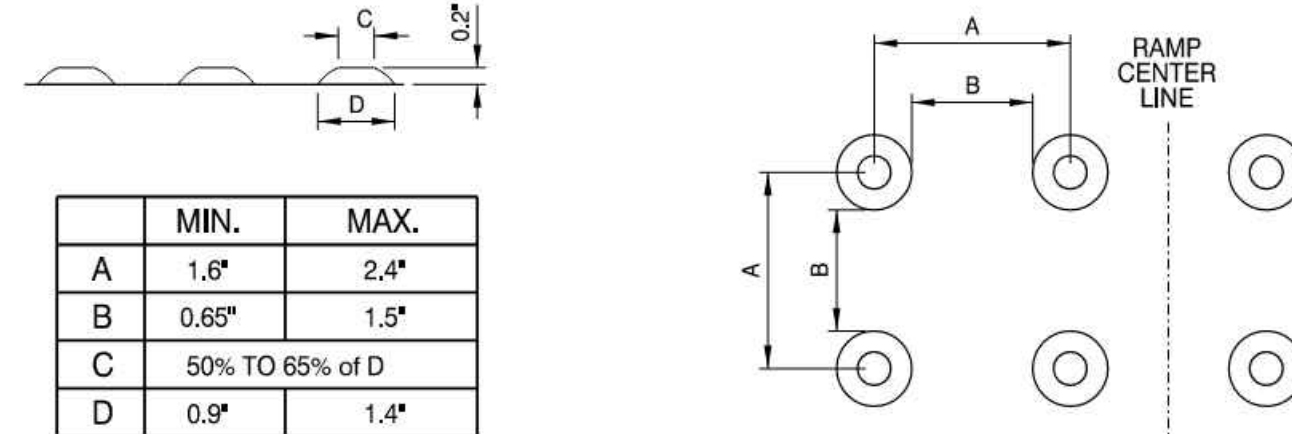
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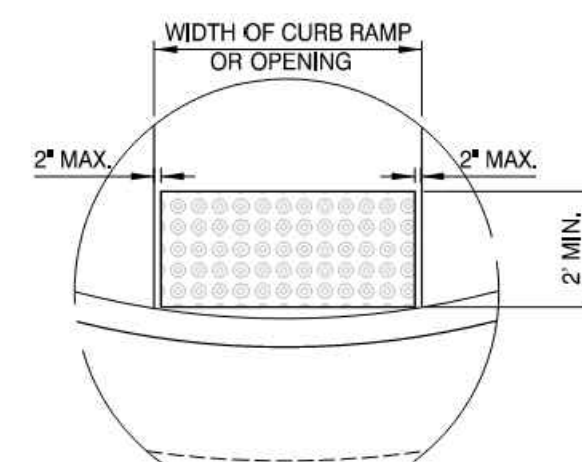
- NOTES:
- 24\"/>
 - SEE STD. DRG. NO. P-547 AND P-548 FOR SIDEWALK RAMP DETAILS NOT SHOWN.
 - SEE STD. DRG. P-506 FOR PAVEMENT RESTORATION DETAILS. INCREASE PAVEMENT RESTORATION WITHIN THE SCOPE OF THE PROJECT TO MINIMIZE GRADE BREAKS IN THE PEDESTRIAN CROSSING.
 - GUTTER PAN SLOPE TO BE 2% NORMAL UP TO 5% MAX
 - SEE STD. DRG. NO. P-540 FOR CURB AND GUTTER DETAILS NOT SHOWN.
 - THE RUNNING SLOPE MAY EXCEED 8.3% WHEN THE RAMP RUN LENGTH IS AT LEAST 15'.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.	
Note: All material and workmanship shall be in accordance with the City of Portland Standard Construction Specifications.	
Effective Date: 09/15/2022	Standard Drawing No.
Calc. Book No.: N/A	P-549
Std. Drg. Report Date: 03/29/2022	

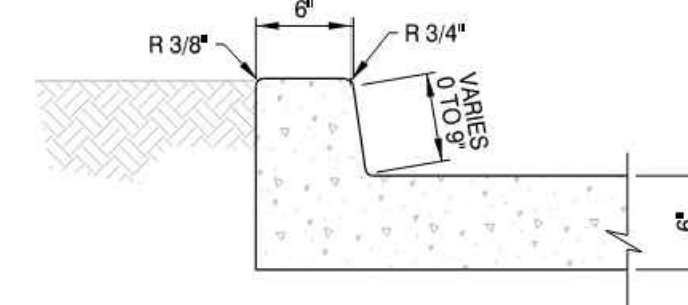
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DETECTABLE WARNING TRUNCATED DOMES PATTERN
N.T.S.



DETECTABLE WARNING SURFACE DETAIL
N.T.S.

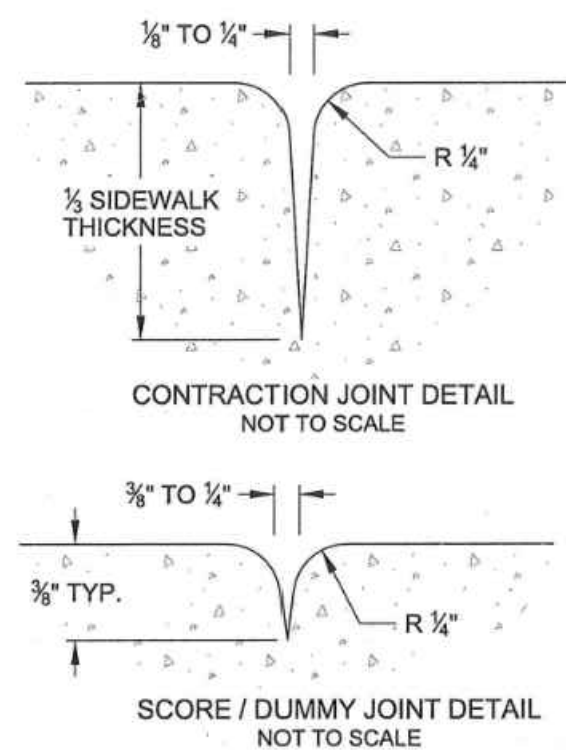


BACK OR SIDE CURB DETAIL
N.T.S.

- NOTES:
- DETECTABLE WARNINGS SHALL BE PROVIDED AT CURB RAMP AND AT LOCATIONS WHERE THE SIDEWALK AND ROADWAY ARE FLUSH.
 - THE DETECTABLE WARNING SURFACE SHALL HAVE A TRUNCATED DOME PATTERN AS SHOWN AND EXTEND 2' DEEP MEASURED FROM THE BACK OF THE CURB.
 - DETECTABLE WARNINGS SHALL MATCH THE WIDTH OF THE RAMP RUN OR THE OPENING WHERE THE SIDEWALK AND ROADWAY ARE FLUSH.
 - DETECTABLE WARNING COLOR SHALL BE "FEDERAL SAFETY YELLOW."
 - ANY ALTERATIONS TO THE DETECTABLE WARNINGS MUST BE MADE PER THE MANUFACTURER'S SPECIFICATIONS. LEAVE NO OPEN SPACE BETWEEN ADJACENT PANELS SO THAT DOME SPACING ADHERES TO THE DETAIL SHOWN.
 - USE CAST-IN-PLACE DETECTABLE WARNINGS UNLESS OTHERWISE SHOWN.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.	
Note: All material and workmanship shall be in accordance with the City of Portland Standard Construction Specifications.	
Effective Date: 09/15/2022	Standard Drawing No.
Calc. Book No.: N/A	P-550
Std. Drg. Report Date: 03/29/2022	

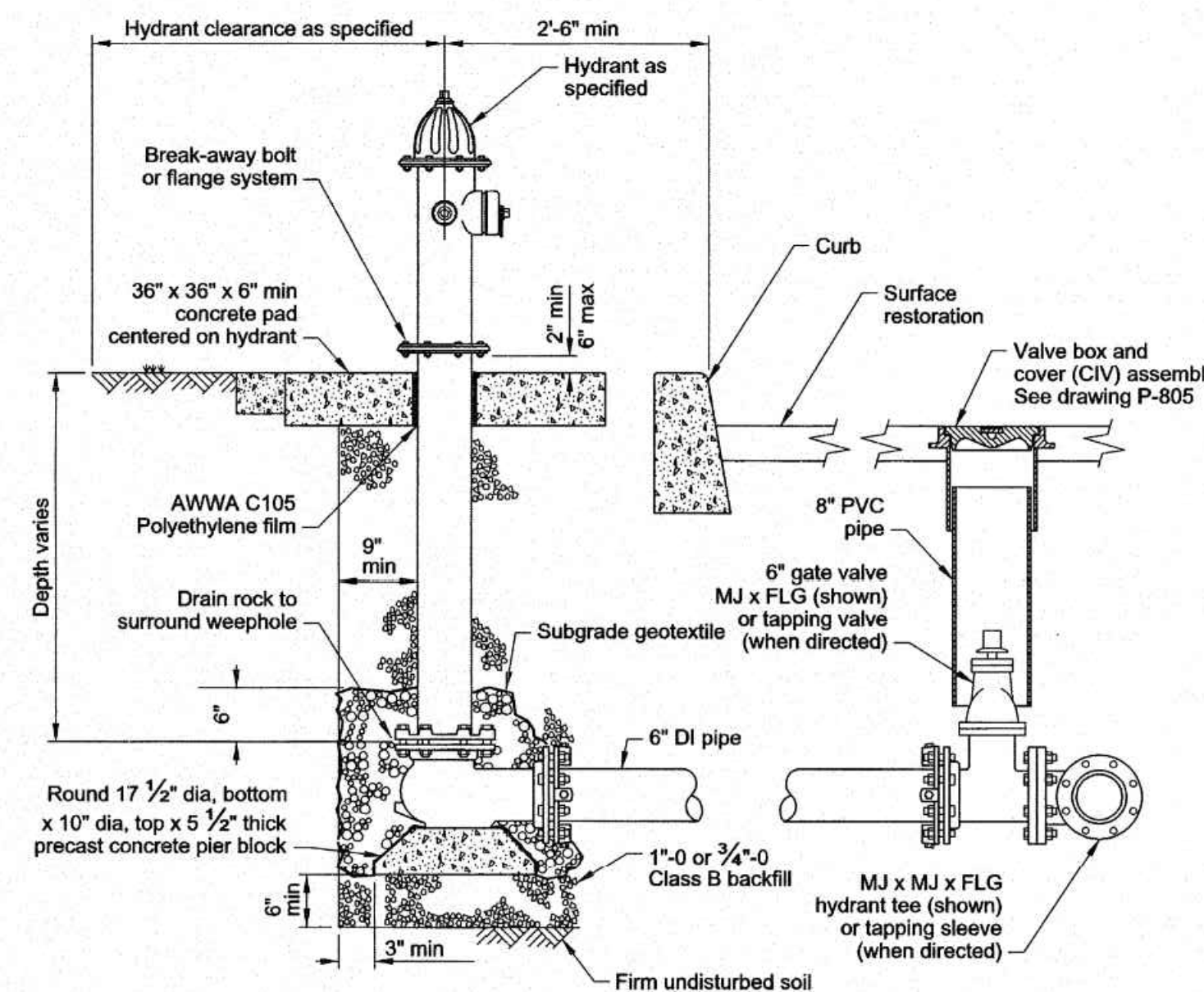
- GENERAL NOTES:
- FOR CURB DETAILS SEE DRAWING P-540. ALL CURB FACE TO HAVE A 6:1 BATTER.
 - CONSTRUCT CONTRACTION JOINTS AT 15' MAXIMUM SPACING, AND AT ENDS OF EACH DRIVEWAY RAMP.
 - CONSTRUCT EXPANSION JOINTS ADJACENT TO BUILDINGS AND AT WOOD POLES.
 - NO SEPARATE PAYMENT MADE FOR FACE OF CURB UNLESS SPECIFIED.
 - PROVIDE LIGHT BROOM FINISH TRANSVERSE TO THE LINE OF TRAFFIC.
 - "SHINERS" OR SMOOTH TROWELED JOINTS SHALL NOT BE USED UNLESS MATCHING INTO EXISTING CONDITIONS.
 - MATCH SCORING PATTERN WHEN ABUTTING EXISTING SIDEWALK UNLESS OTHERWISE DIRECTED.
 - SAWOUT CONTRACTION JOINTS WHEN SIDEWALK IS A DESIGNATED OR SHARED BICYCLE PATH. SEE PLANS FOR SAWOUT LAYOUT AND DETAILS.



ZONE WIDTH	SCORING GRID
5'	5' x 5'
6'	3' x 3'
7'	3.5' x 3.5'
8'	4' x 4'
10'	5' x 5'
12'	4' x 4'
15'	5' x 5'

* MODIFY SCORING AT CORNERS TO MEET ADA REQUIREMENTS.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.	
Note: All material and workmanship shall be in accordance with the City of Portland Standard Construction Specifications.	
Effective Date: 04-17-2019	Standard Drawing No.
Calc. Book No.: N/A	P-551
Std. Drg. Report Date:	



- Notes:
- All joints to be restrained.
 - Hydrant to be painted as specified.
 - Concrete pad and sidewalk replacement as needed to match existing scoring pattern.
 - Extend concrete pad to curb or sidewalk when the distance between the concrete pad and the curb or sidewalk is 1' or less.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.	
Note: All material and workmanship shall be in accordance with City of Portland Standard Construction Specifications.	
Effective Date: February 20 2013	Standard Drawing No.
Calc. Book No.: PWB 1	P-700
Baseline Report Date: April 6 2009	

