

Korum Mitsubishi Southeast

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington

GENERAL NOTES

- 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 Center to be attended by all major contractors, representatives of involved utilities, and the City of Puyallup. Contact engineering services at 253-864-4165 to schedule the meeting. The contractor is responsible to have their set of plans at the meeting.
- 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.
- 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Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards").
- A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.
- 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.
- The contractor shall have all utilities verified on the ground prior to any construction. Call (1-800-424-5555) at least 48 hours in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.
- Any structure and/or obstruction which 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.
- The contractor shall install, replace, or relocate all signs, as shown on the plans or as affected by construction, per City Standards.
- 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, storm) of 5 feet.
- 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.
- 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.
- Certified record drawings are required prior to project acceptance.
- A NPDES Stormwater General Permit may be required by the Department of Ecology for this project. For information contact the Department of Ecology at (360)407-6900.
- 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.

DATUM

NGVD 29
GPS derived NGVD 29 by using Vertcon conversion.

ONSITE TBM:

Mag nail in concrete sidewalk, south side of 2nd St. NE, 148 feet east of corner of intersection with Meridian. Elev = 39.39

ZONING:

SITE: CG
NORTH: CG
EAST: CG
SOUTH: CG
WEST: CG

PARCEL NUMBERS:

042027-2-170 & -172

PARCEL SIZE:

40,504 sf
0.93 AC

DRAWINGS

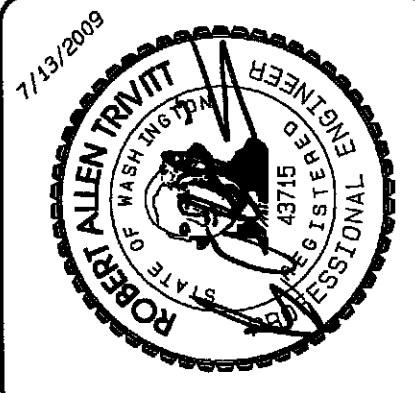
- S1 Cover Sheet
- S2 TESC Notes & Details
- S3 Grading Plan & Cross-Sections
- S4 Paving and Storm Plan, Storm Profile
- S5 Notes & Details

PROJECT DESCRIPTION

Project will consist of the demolition of two existing buildings, then grading and paving the vicinity. A StormFilter catch basin will be used to collect and treat runoff from the area of roof replaced by pavement with a connection to the existing storm conveyance system in 2nd Street NE.

APPROVED
BY *David S. Stedman*
CITY OF PUYALLUP
ENGINEERING SERVICES
DATE: 7-15-2009

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CHANGES MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER.



REVISION	DATE	DESCRIPTION
1	5/11/09	DESIGNED BY: RSD TRIVITT
2		DESIGNED BY: RSD TRIVITT
3		DESIGNED BY: RSD TRIVITT
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7		DESIGNED BY: RSD TRIVITT
8		DESIGNED BY: RSD TRIVITT
9		DESIGNED BY: RSD TRIVITT
10		DESIGNED BY: RSD TRIVITT

DATE	BY	DESCRIPTION
APR 16, 2009	RSD TRIVITT	DESIGNED BY
	RSD TRIVITT	CHECKED BY
	TONY AURUM	APPROVED BY

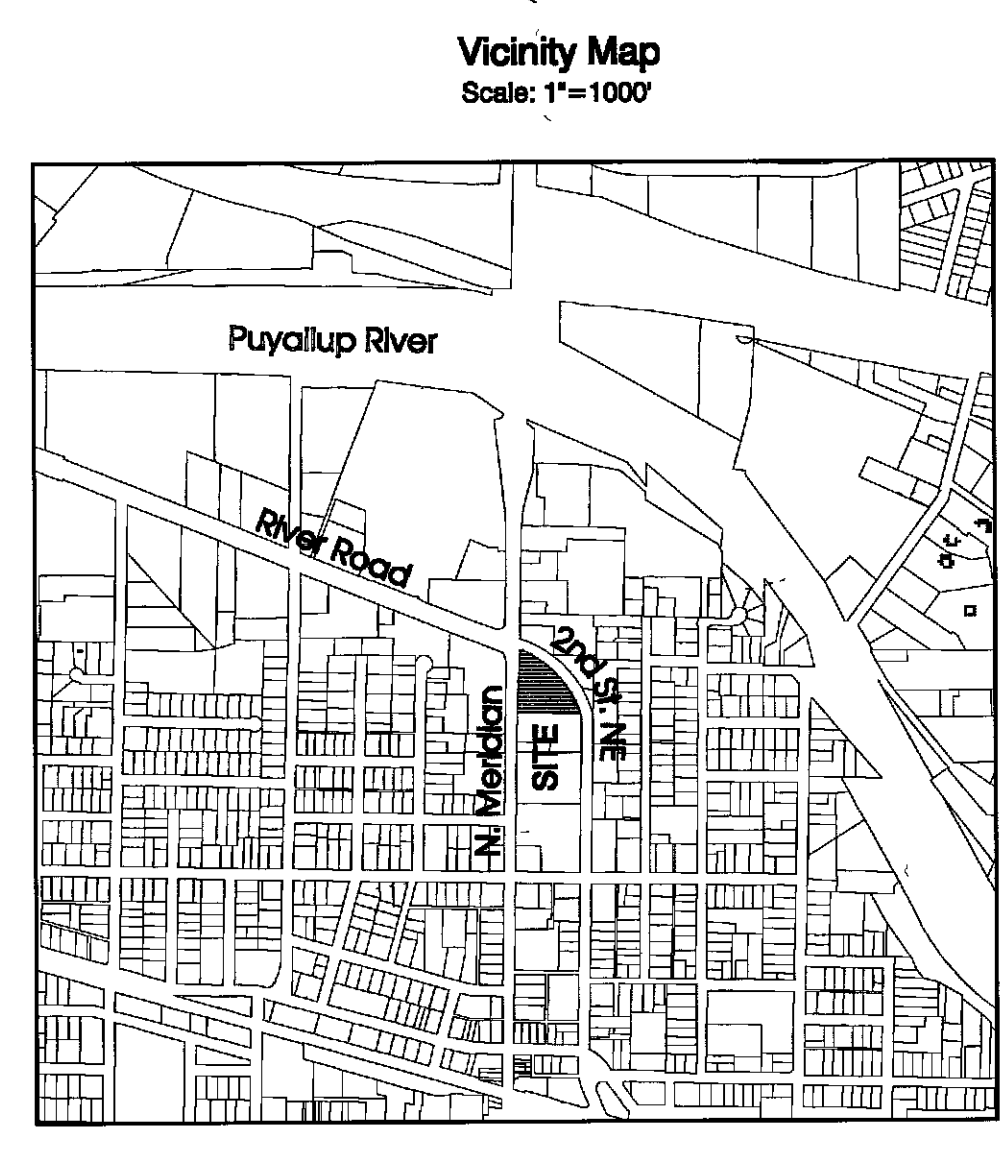
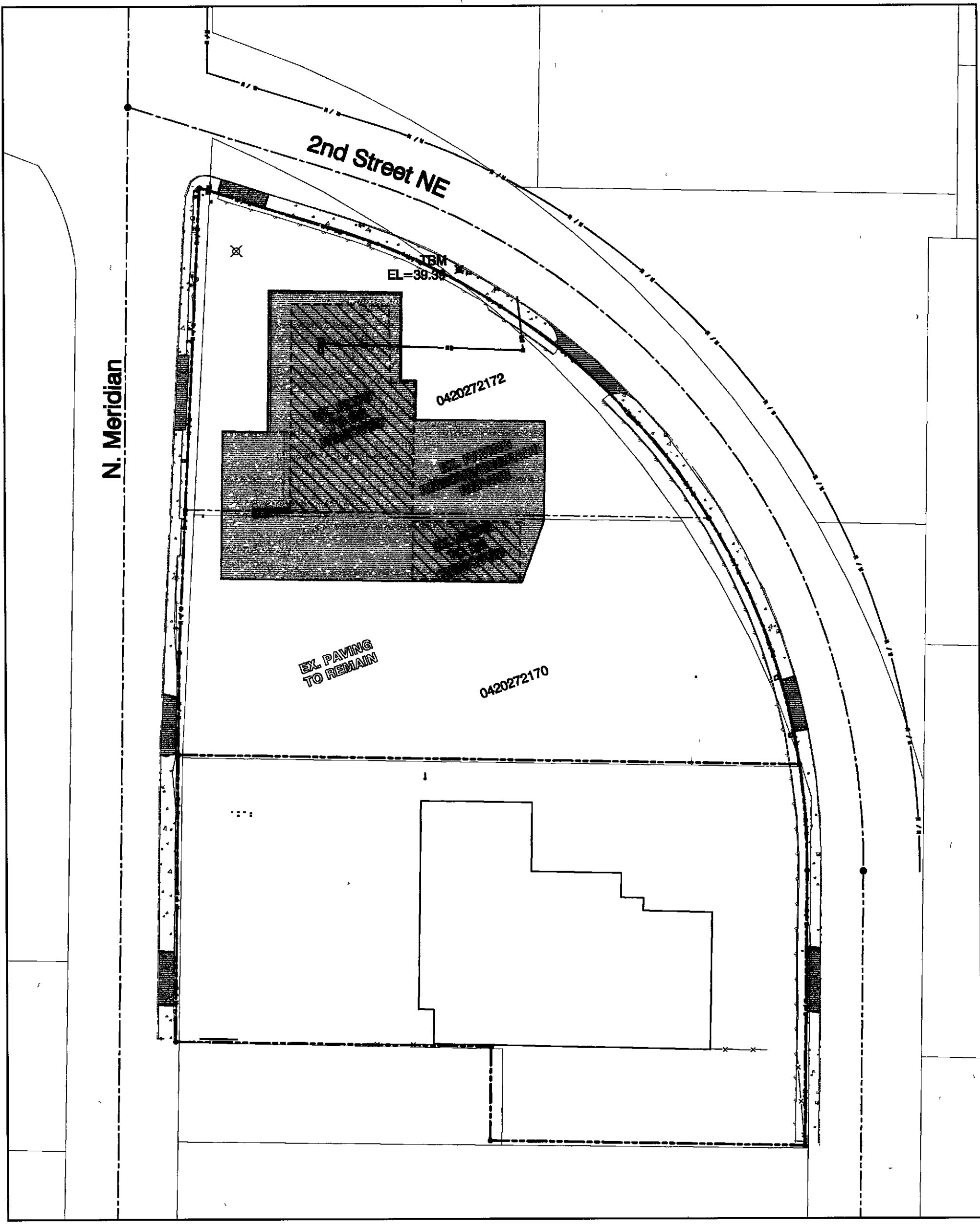
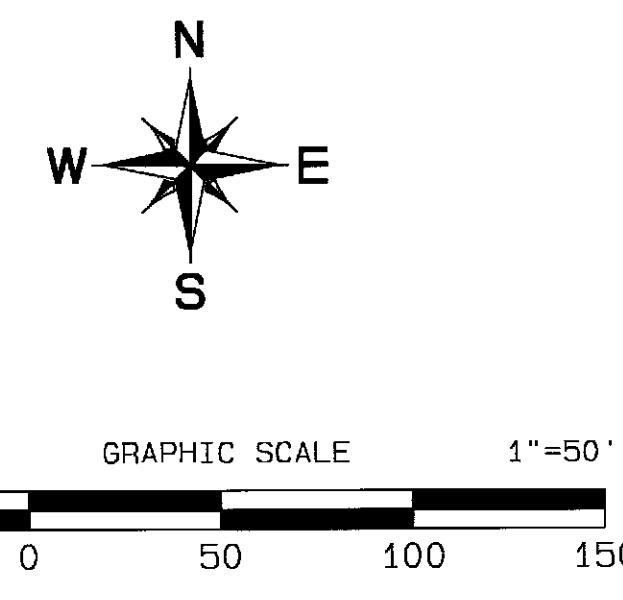
AZURE GREEN
CONSULTANTS

409 East Pioneer, Suite A - Puyallup, WA 98372
Phone: 253.770.3144 Fax: 253.770.3143

Korum Mitsubishi Southeast

Forest Contracting, Inc.
27018 233rd Pl. SE, Maple Valley, WA, 98038-8814
Phone 425-432-0437 Fax 425-432-8998

DRAWING
S1
SHEET 1 OF 5



LEGEND

	PROPOSED STORM LINE		EX. PHONE LINE
	EX. STORM LINE		EX. POWER LINE
	PROP. CATCH BASIN		EX. POWER BOX
	EX. CATCH BASIN		EX. STREETLIGHT
	EX. STORM MANHOLE		EX. TRAFFIC SIGNAL BOX
	EX. SEWER LINE		EX. SIGN
	EX. SEWER MANHOLE		EX. FLAGPOLE
	EX. WATER LINE		
	EX. WATER METER		
	EX. WATER VALVE		
	EX. GAS LINE		
	EX. GAS VALVE		
	EX. GAS METER		

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Korum Mitsubishi Southeast

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington

CONSTRUCTION SEQUENCE

- OBTAIN REQUIRED PERMITS AND HOLD A PRECONSTRUCTION MEETING WITH THE CITY. COORDINATE WITH UTILITY COMPANIES TO ABANDON EXISTING UTILITY SERVICES.
- INSTALL CATCH BASIN INSERTS IN EX. BASINS DOWNSTREAM OF CONSTRUCTION.
- DEMOLISH EXISTING BUILDINGS.
- SAW CUT EXISTING PAVEMENT AND REMOVE.
- GRADE TO SUBGRADE, FILL/COMPACT PER GRADING PLAN.
- INSTALL CATCH BASINS AND STORM DRAINAGE PIPES. PROTECT CATCH BASIN INLETS WITH INSERTS.
- INSTALL BASE MATERIAL.
- INSTALL CSTC.
- ADJUST ANY/ALL UTILITIES TO FINISHED GRADE.
- INSTALL ASPHALT PAVING.

TEMPORARY ESC MEASURES REQUIRED

- Plastic Sheeting
- Catch Basin Inserts
- Additional measures may be required.

PERMANENT ESC MEASURES REQUIRED

- Paving

EARTH WORK QUANTITIES

EXCAVATION (CUT) - 115 CY
 EMBANKMENT (FILL) - 339 CY
 ROOF AREA REPLACED WITH PAVEMENT: 9,867 SF
 CLEARING AREA - 19,392 SF
 GRADING AREA - 19,392 SF

MAX CUT: 4 FEET
 MAX FILL: 4 FEET

THESE QUANTITIES ARE FOR THE ESTABLISHMENT OF CLEARING AND GRADING PERMIT ONLY AND SHALL NOT BE CONSTRUED TO INDICATE A BALANCED SITE.

GRADING VOLUMES ARE FROM EXISTING GRADE TO FINISHED GRADE AND MAKE NO ALLOWANCE FOR STRIPPINGS, GRAVEL, OR ROAD SECTION MATERIALS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING HIS OWN QUANTITIES FOR BIDDING PURPOSES AND SHALL NOT HOLD THE ENGINEER OR OWNER/DEVELOPER RESPONSIBLE FOR ANY ERRORS IN HIS BID QUANTITIES FOR EXCAVATION.

MULCHING NOTES

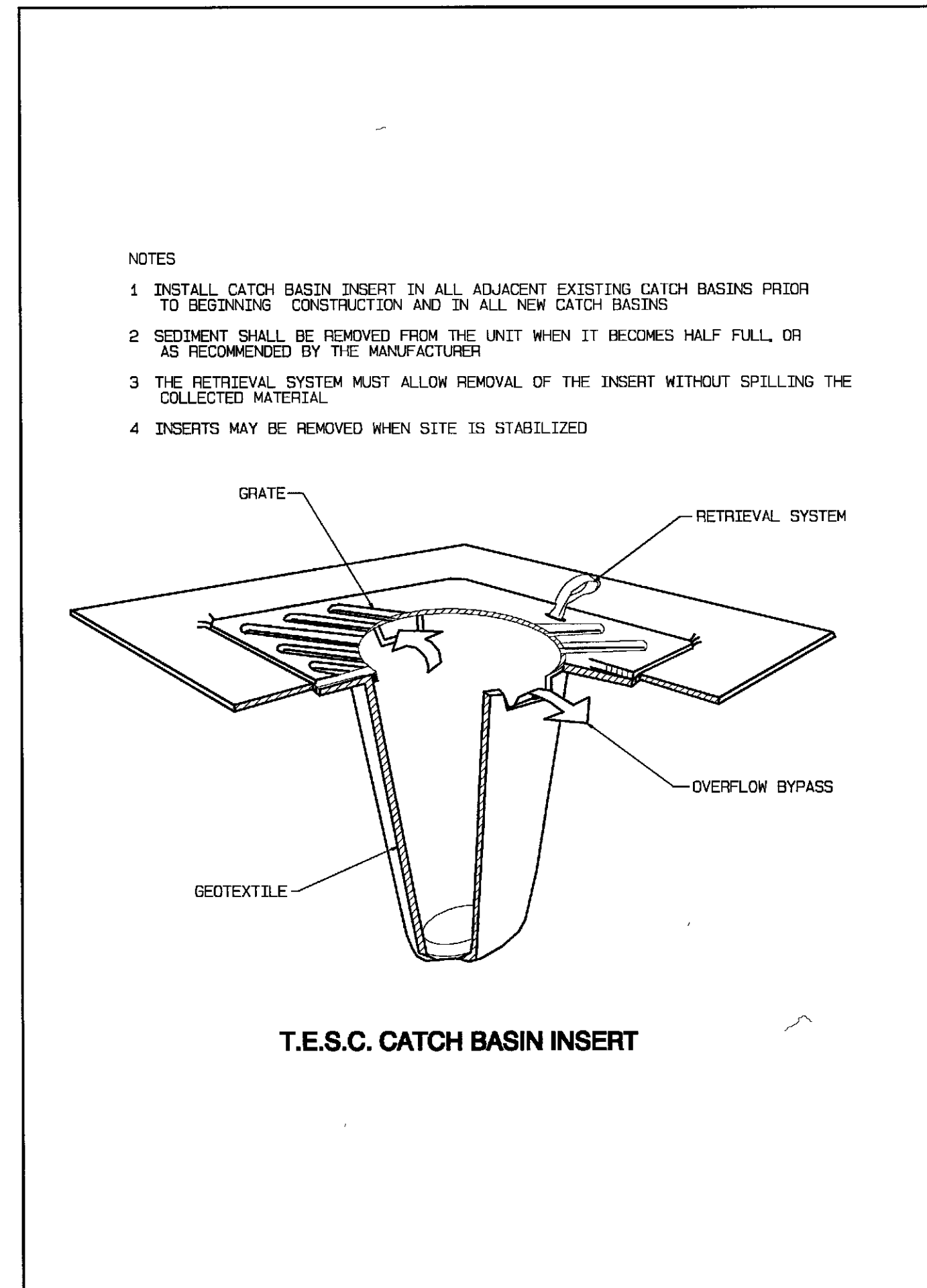
- MULCH MATERIALS USED SHALL BE HAY OR STRAW AND SHALL BE APPLIED AT A RATE OF 75-100 POUNDS PER 1000 SQUARE FEET, OR 90-120 BALES PER ACRE TO A MIN. DEPTH OF 2 INCHES.
- MULCHES SHALL BE APPLIED IN ALL AREAS WITH EXPOSED SLOPES GREATER THAN 2:1.
- MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING OR IN AREAS WHICH CANNOT BE SEEDED BECAUSE OF THE SEASON.
- ALL AREAS NEEDED MULCH SHALL BE COVERED BY NOVEMBER 1.

SOIL STOCKPILE NOTES:

- Stockpiles shall be stabilized (with plastic covering or other approved device) daily between November 1 and March 31.
- 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.
- Previously established grades on the areas to be topsoiled shall be maintained according to the approved plan.
- Stockpiles must be located more than 50 feet from all drainage features.

PLASTIC COVERING NOTES:

- Plastic sheeting shall have a minimum thickness of 6 mils and shall meet the requirements of the STATE STANDARD SPECIFICATIONS Section 9-14.5.
- Covering shall be installed and maintained tightly in place by using sandbags or tires on ropes with a medium 10-foot grid spacing in all directions. All seams shall be taped or weighted down full length and there shall be a least a 12 inch overlap of all seams.
- Clear plastic covering shall be installed immediately on areas seeded between November 1 and March 31 and remain until vegetation is firmly established.
- 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.
- Proper maintenance includes regular checks for rips and dislodged ends.



NOTES

- INSTALL CATCH BASIN INSERT IN ALL ADJACENT EXISTING CATCH BASINS PRIOR TO BEGINNING CONSTRUCTION AND IN ALL NEW CATCH BASINS.
- SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL OR AS RECOMMENDED BY THE MANUFACTURER.
- THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE INSERT WITHOUT SPILLING THE COLLECTED MATERIAL.
- INSERTS MAY BE REMOVED WHEN SITE IS STABILIZED.

GRADING, EROSION & SEDIMENTATION CONTROL NOTES:

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- The contractor shall have all utilities verified on the ground prior to any construction. Call (1-800-424-5555) at least 48 hours in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.
- 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.
- 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 on-site erosion has passed. The implementation, maintenance, replacement, and additions to the erosion and sedimentation control systems shall be the responsibility of the permittee.
- The erosion and sedimentation control system 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.
- 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.
- 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.
- 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.
- 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.

APPROVED
 BY *David S. ...*
 CITY OF PUYALLUP
 ENGINEERING SERVICES
 DATE 7.15.2009

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DATE	REVISION
07/14/09	1. REVISED PER CITY'S SET REVIEW
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	5.
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	7.
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JOB NO 1424
 DATE APR 18, 2009
 DESIGNED BY RALPH J. ...
 CHECKED BY TORREY AZURE
 APPROVED BY TORREY AZURE

AZURE GREEN
 CONSULTANTS
 + feasibility + planning + engineering + surveying
 409 East Pioneer, Suite A - Puyallup, WA 98372 phone 253-770-3144 fax 253-770-3142

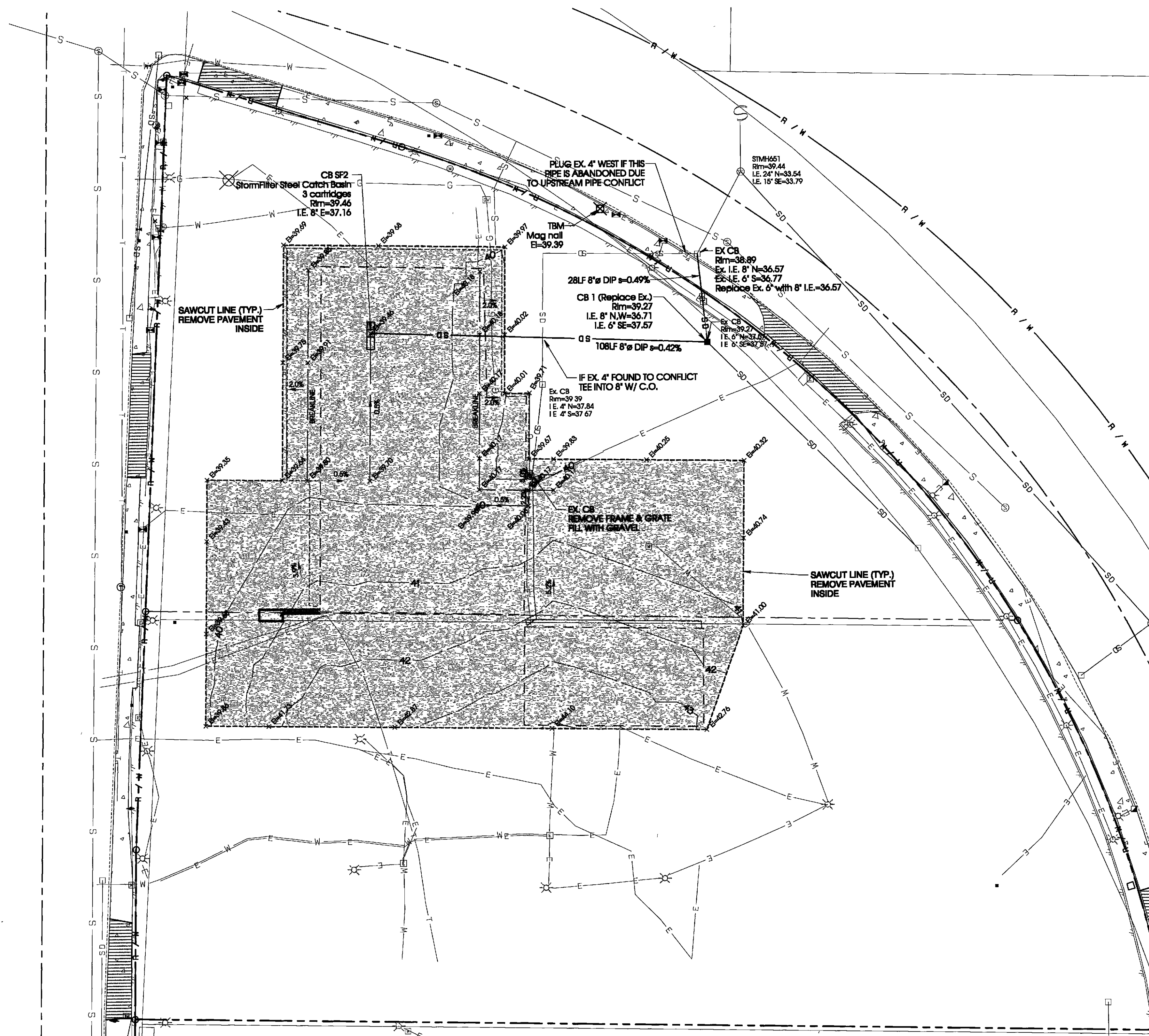
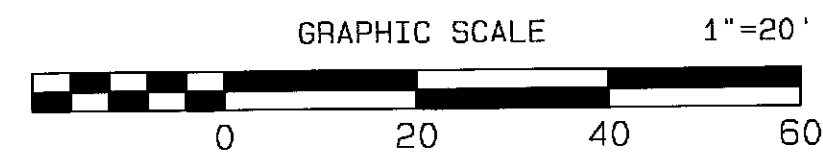
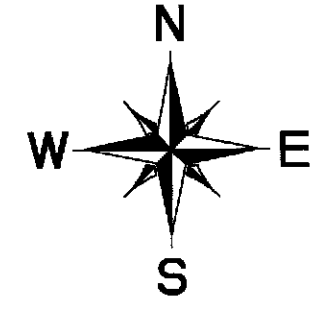
TESC Notes & Detail
 Korum Mitsubishi Southeast
 Forest Contracting, Inc.
 27018 233rd Pl. SE, Maple Valley, WA, 98038-8614
 Phone 425-432-0437 Fax 425-432-0598

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 OF 5

Project Date: Korum Mitsubishi Southeast - Beth C. Jabaleta - Korum Mitsubishi Southeast 20090514 p09 Plot Date/Time: 7/15/2009 17:22:08

Korum Mitsubishi Southeast

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington



PAVING NOTES:

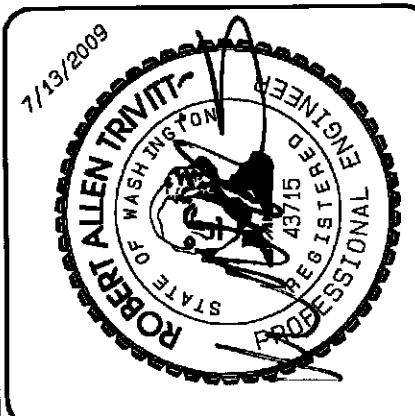
- ALL DEPTHS ARE MINIMUM COMPACTED DEPTHS.
- SUB GRADE PREPARATION SHALL MEET THE REQUIREMENTS OF WSDOT SPEC. SECTION 2-06.3(1). IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MEET THE COMPACTION REQUIREMENTS AND CONTROL ALL WORK. THE CITY OF PUYALLUP RESERVES THE RIGHT TO CONDUCT COMPLIANCE TESTS, AT THE CONTRACTOR'S EXPENSE.
- SUBBASE MATERIAL SHALL BE BANKRUN GRAVEL MEETING THE REQUIREMENTS OF WSDOT SPEC. SECTION 9-03.10 OR CRUSHED BALLAST MEETING THE REQUIREMENTS OF WSDOT SPEC. SECTION 9-03.9(1). CRUSHED SURFACING SHALL MEET THE GRADATION REQUIREMENTS OF WSDOT SPEC. SECTION 9-03.9(2). THE SUBBASE AND BASE MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH WSDOT SPEC. SECTION 4-04.
- SOIL STABILIZATION FABRIC MAY BE REQUIRED BY THE ENGINEER TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE BASE MATERIAL. WHEN REQUIRED, THE CONTRACTOR SHALL PLACE A GEOTEXTILE FABRIC OVER THE PREPARED SUBGRADE WITH A 2 FOOT MINIMUM OVERLAP. THE MATERIAL SHALL BE AMOCO NON-WOVEN CONSTRUCTION FABRIC #663 OR AN APPROVED EQUAL. THE MATERIAL SHALL BE PROPERLY PACKED AND DELIVERED TO THE SITE AS RECOMMENDED BY THE MANUFACTURER.
- ASPHALT CONCRETE PAVEMENT SHALL BE INSTALLED IN ACCORDANCE WITH WSDOT SPEC. SECTION 5-04. THE GRADATION REQUIREMENTS FOR THE CLASS B MIX SHALL BE AS FOLLOWS:

SEIVES	% PASSING (BY WEIGHT)
5/8" SQUARE	100%
1/2" SQUARE	90-100%
3/8" SQUARE	75-90%
1/4" SQUARE	55-75%
US #10	32-45%
US #40	11-24%
US #60	6-15%
US #200	3-7%
ASPHALT CEMENT	5-7.5%

 ASPHALT PAVING SHALL BE AR-4000W.
- THE PROJECT ENGINEER RESERVES THE RIGHT TO MODIFY THE GRADATION OF THE ASPHALT CONCRETE PAVEMENT IF THE CONDITIONS WARRANT IT. THE CONTRACTOR SHALL SUBMIT A JOB MIX FORMULA TO BE REVIEWED BY THE PROJECT ENGINEER PRIOR TO ANY ASPHALT PLACEMENT.
- TEMPERATURE SHALL NOT EXCEED 325°F AT DISCHARGE OF THE PLANT NOR LESS THAN 185°F LEAVING THE SPREADER BOX.
- THE MAXIMUM COMPACTED THICKNESS OF ANY SINGLE LIFT OF PAVEMENT SHALL BE 3". PAVEMENT SECTIONS OF THICKNESS GREATER THAN 3" SHALL BE PLACED IN LIFTS. EACH LIFT SHALL BE COMPACTED IN ACCORDANCE WITH WSDOT SPEC. SECTION 5-04.3(10) TO A MINIMUM AVERAGE COMPACTED DRY DENSITY OF 91 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY WSDOT TEST METHOD 705. PERIODIC COMPLIANCE TESTS SHALL BE MADE BY A CERTIFIED TESTING AGENCY AT THE EXPENSE OF THE CONTRACTOR.
- THE FACE OF THE GUTTER LIP AND EDGES OF EXISTING ASPHALT MEET LINES SHALL BE TACK COATED PRIOR TO PAVEMENT PLACEMENT. WHEN SUCCESSIVE LIFTS OF ASPHALT ARE REQUIRED TACK COAT SHALL BE DISTRIBUTED UNIFORMLY OVER THE PREVIOUS LIFT AT A RATE OF 0.06-0.08 GALLONS PER SQUARE YARD AT A TIME OF PLACEMENT OF THE NEXT LIFT.
- ALL MEET LINES BETWEEN LIFTS OF ASPHALT SHALL BE UNIFORM, WITH EDGES VERTICAL. AND AT THE REQUIRED THICKNESS. IF SUBSEQUENT LIFTS ARE NOT COMPLETED WITHIN 48 HOURS OR THE EDGES HAVE BEEN CONTAMINATED, THE MEET LINES SHALL BE CLEANED AND TACK COATED.
- ALL EXISTING MANHOLE COVERS AND MONUMENT CASES SHALL BE REMOVED AND STORED. THE MANHOLES AND MONUMENTS SHALL BE COVERED TO PREVENT DIRT AND DEBRIS FROM ENTERING DURING PAVING OPERATION. AFTER PAVING, THE CASINGS SHALL BE RE-INSTALLED TO THE PROPER ELEVATION AND PATCHED IN ACCORDANCE WITH THE CITY OF PUYALLUP SPECS.
- ANY CHANGES TO THE PAVEMENT SECTION SHALL REQUIRE APPROVAL OF THE DESIGN ENGINEER.
- ALL MANHOLE FRAMES, VALVE FRAMES AND MONUMENT COVERS SHALL BE INSTALLED AFTER FINAL LIFT OF ASPHALT PAVEMENTS. SEE SPECIFIC DETAILS FOR METHOD OF INSTALLATION.

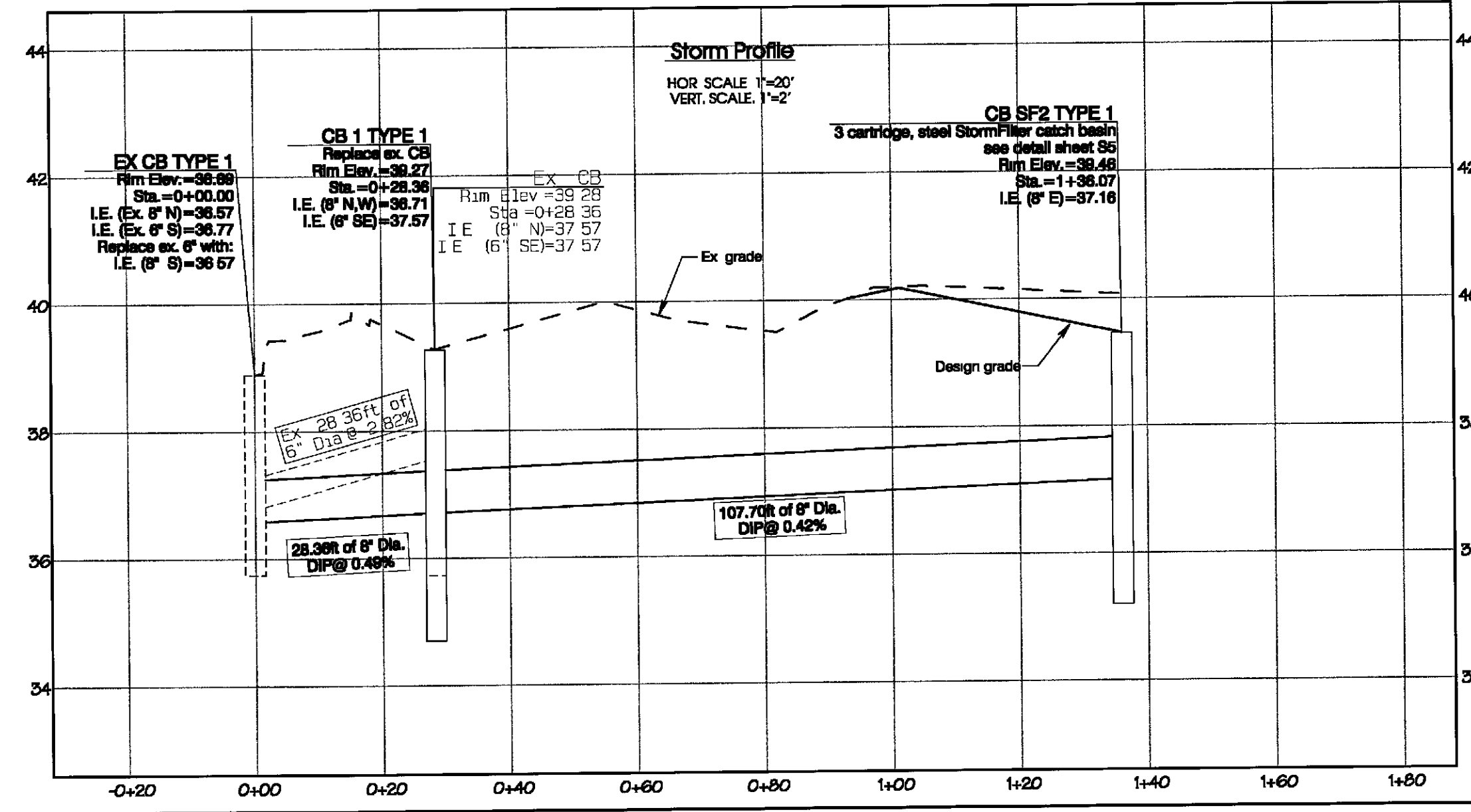
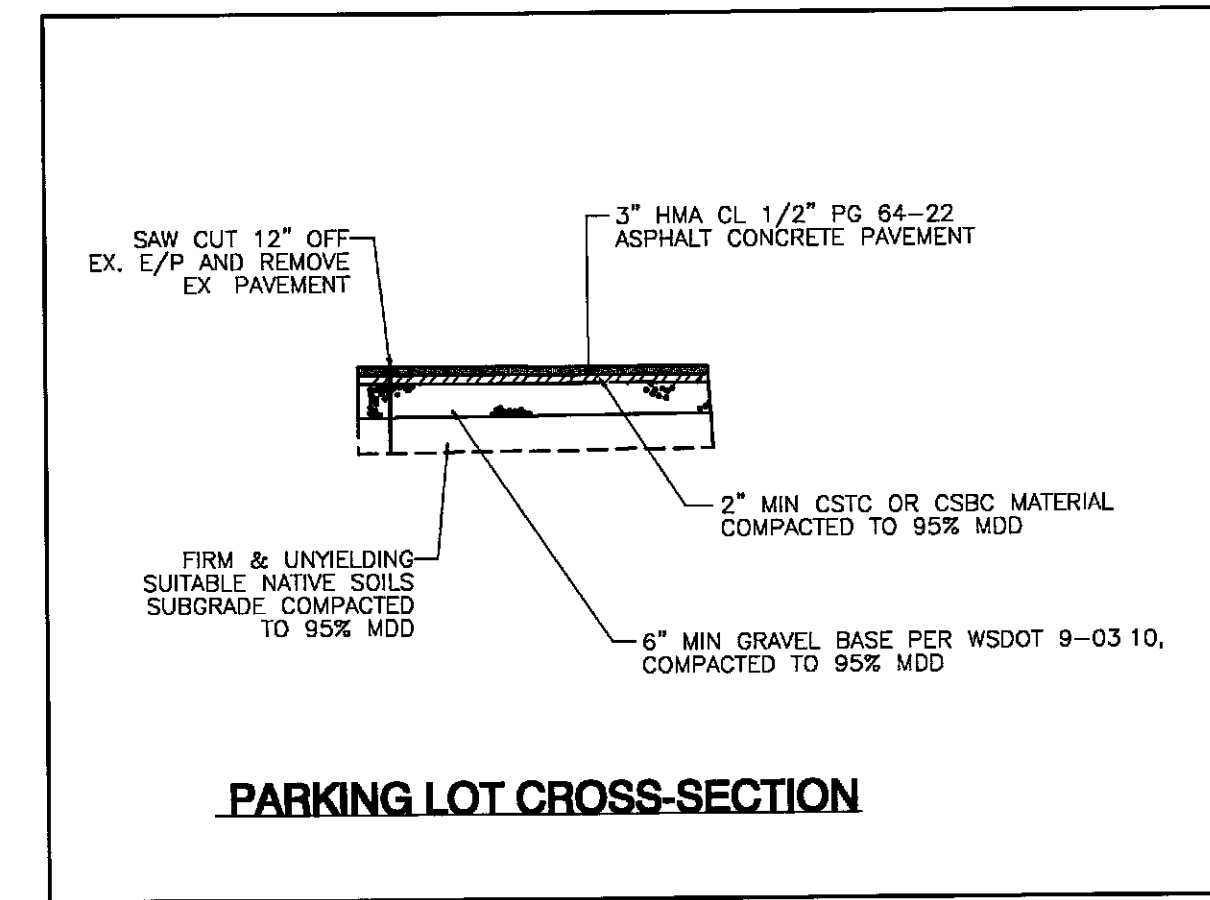
APPROVED
 BY *[Signature]*
 CITY OF PUYALLUP
 ENGINEERING SERVICES
 DATE 7/15/2009

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CHANGES MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER.



NO.	REVISION	DATE
1	REVISION FOR CITY'S USE	5/14/09
2	REVISION FOR CITY'S USE	
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DESIGNED BY: TERRY AZURE
 CHECKED BY: TERRY AZURE
 APPROVED BY: TERRY AZURE



Project Desc: Korum Mitsubishi Southeast; Plot Date/Time: 7/13/2009/4:28:35PM

Paving & Storm Plan, Storm Profile

AZURE GREEN
 CONSULTANTS
 - feasibility - planning - engineering - surveying
 409 East Pioneer, Suite A - Puyallup, WA 98972
 phone: 253.770.3144 fax: 253.770.3142

Korum Mitsubishi Southeast
 Forest Contracting, Inc.
 27018 233rd Pl. SE, Maple Valley, WA 98038-6814
 Phone 425.432.0437 Fax 425.432.6868

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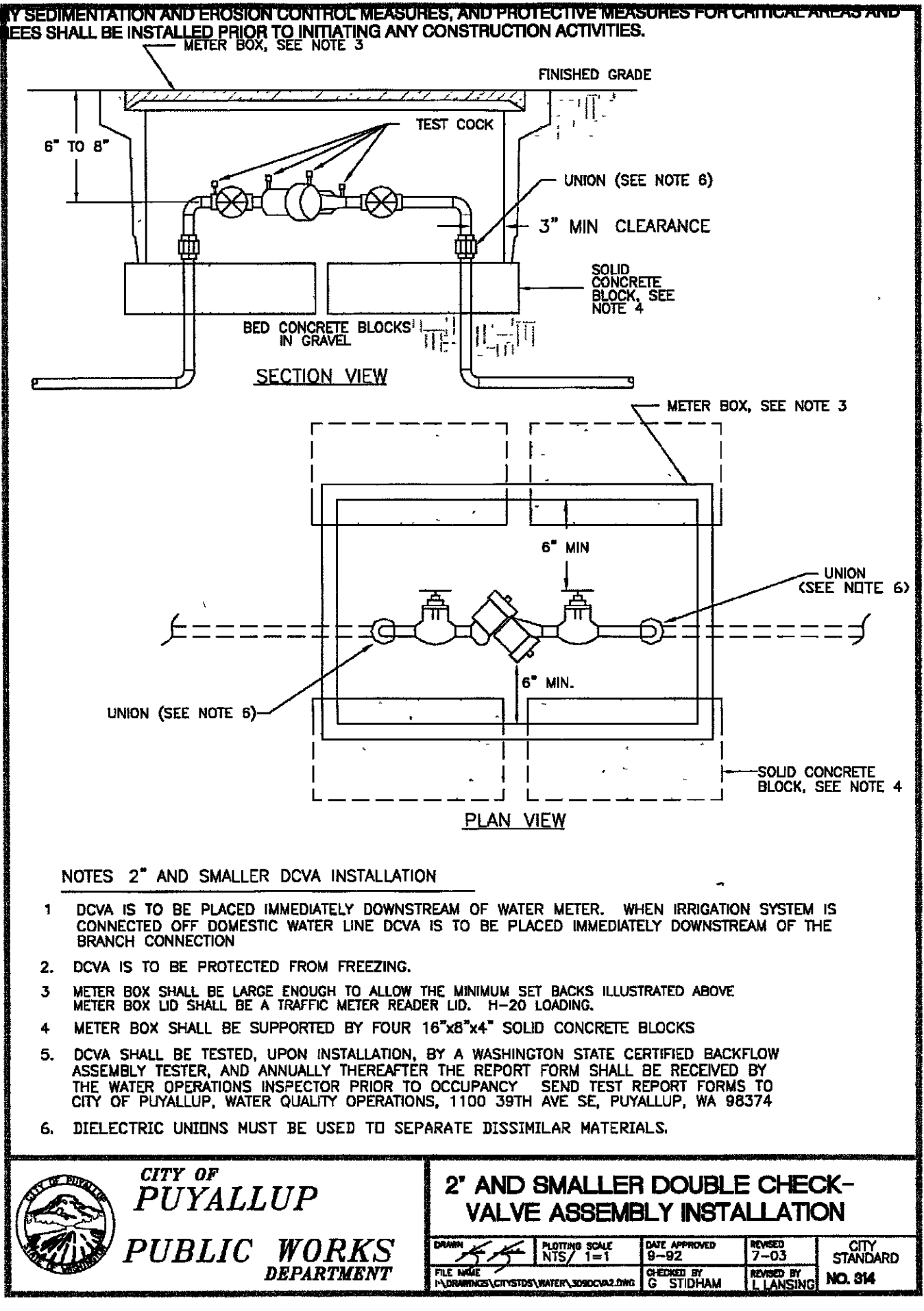
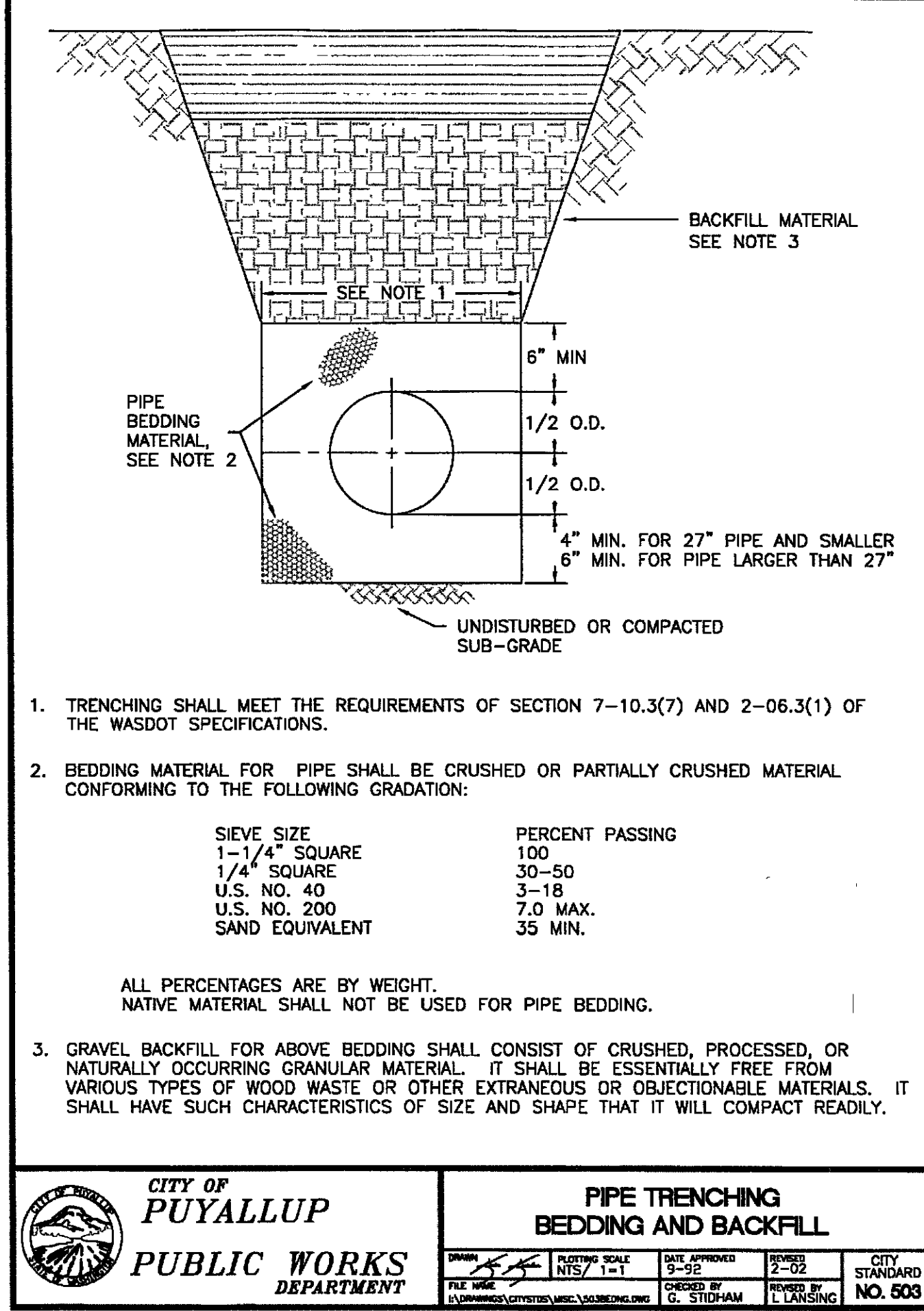
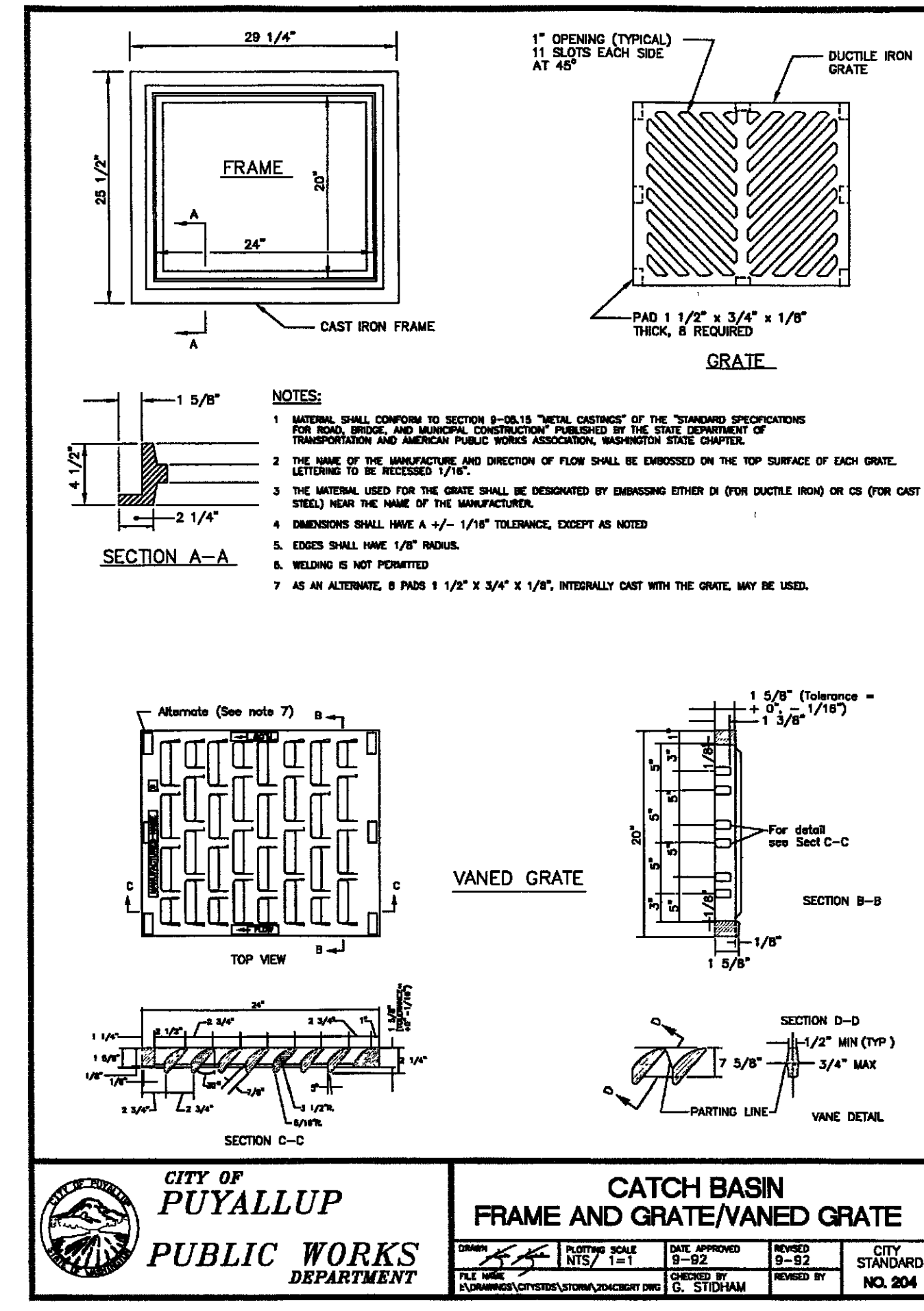
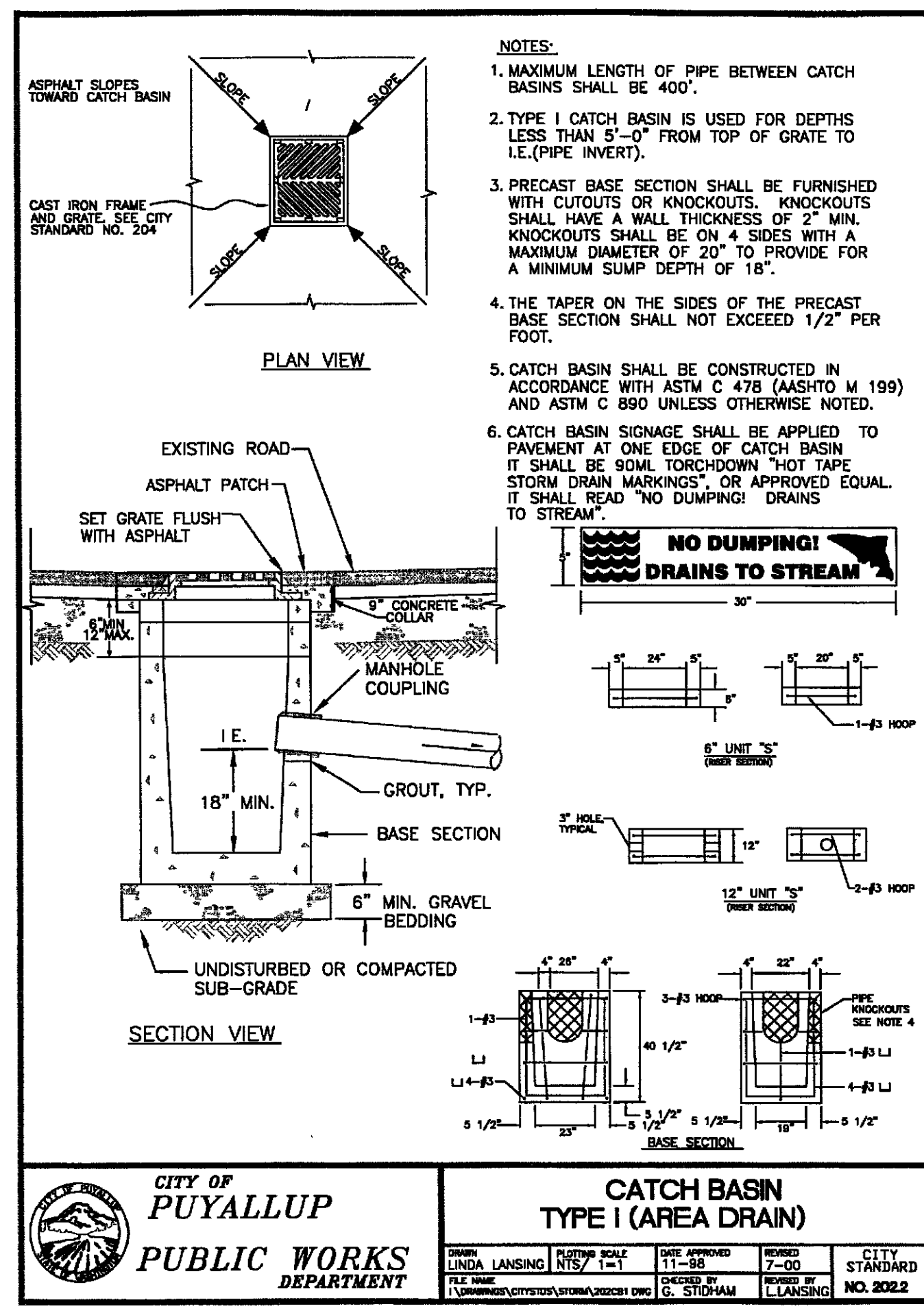
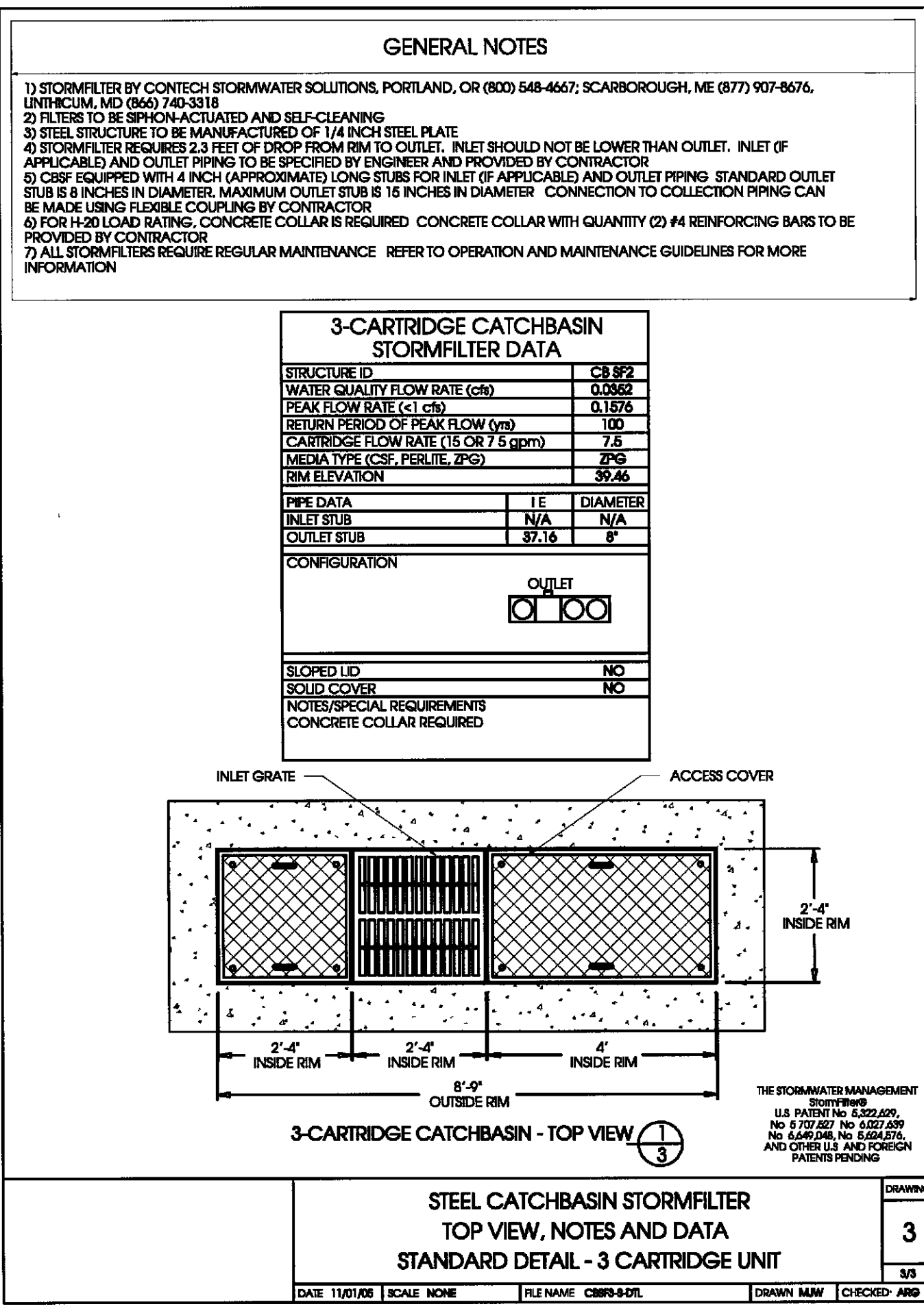
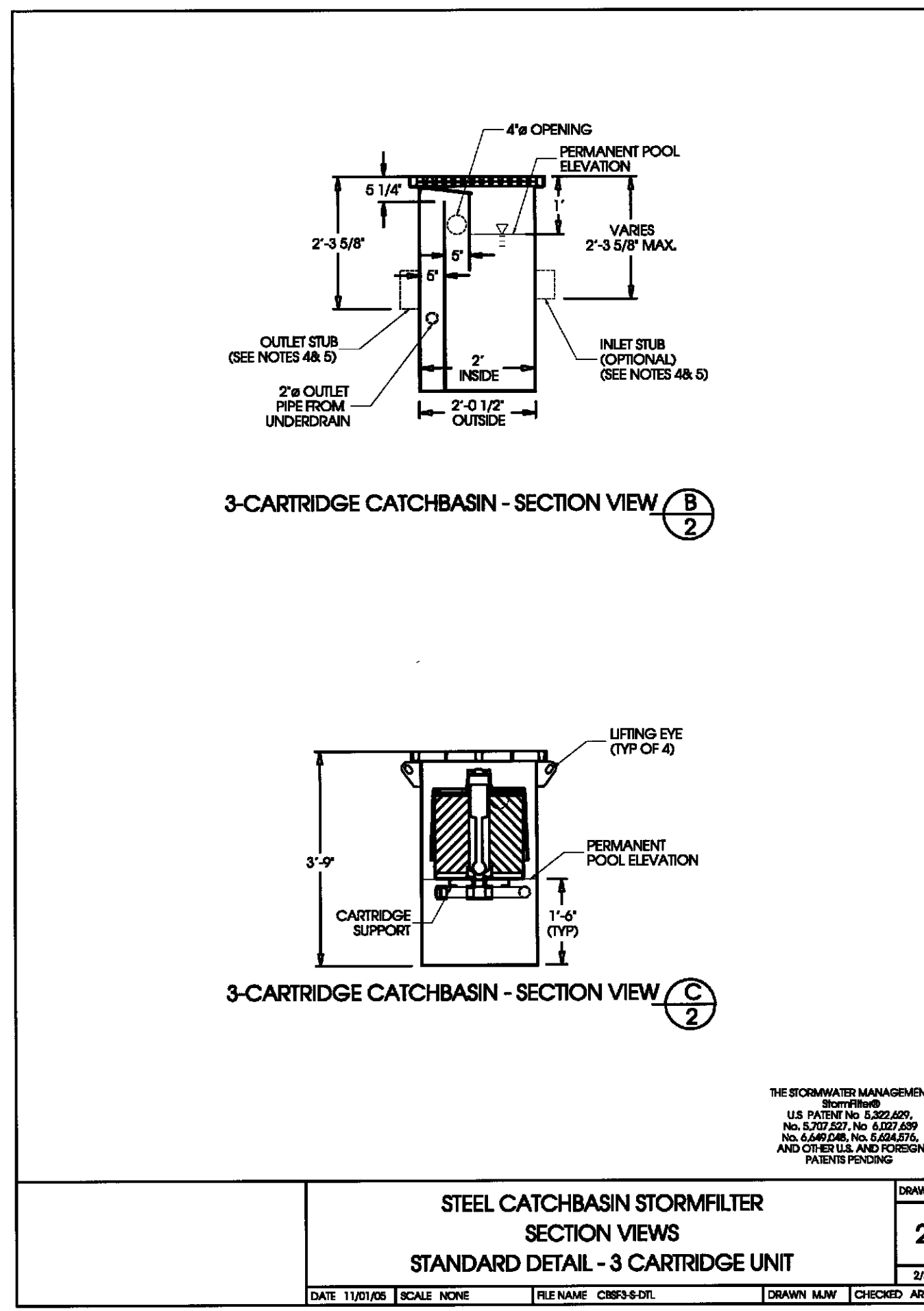
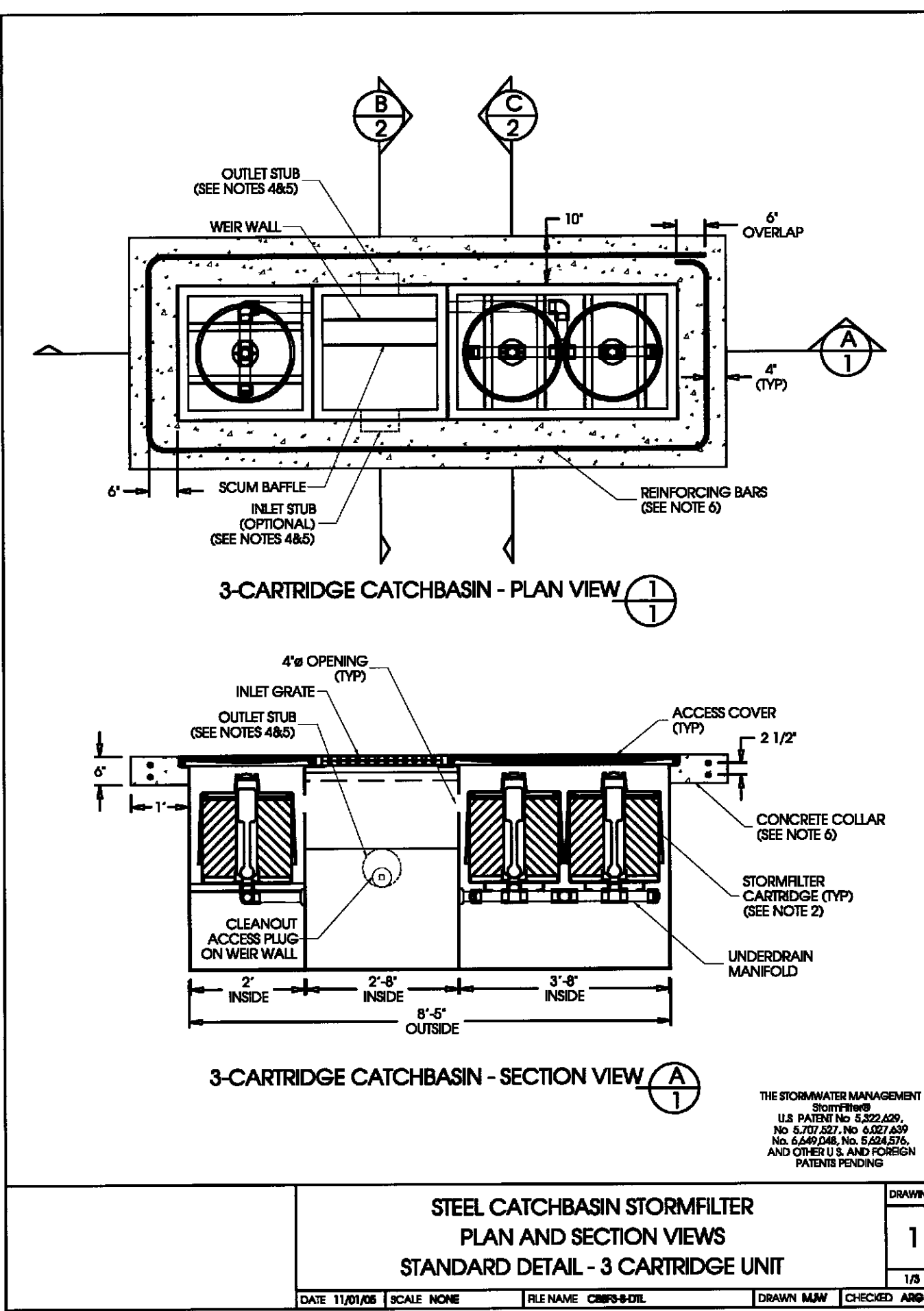
Korum Mitsubishi Southeast

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington

STORMWATER NOTES:

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- 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 WORKS 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.
- 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").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPERS 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.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (1-800-424-6565) AT LEAST 48 HOURS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATION TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPERS EXPENSE.
- DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
- ALL STORM MANHOLES SHALL CONFORM TO CITY STANDARD DETAILS. FLOW CONTROL MANHOLE/OIL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD DETAILS.
- MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAILS. THE COVER SHALL BE MARKED WITH "STORM" OR "DRAIN" IN 2-INCH RAISED LETTERS. MINIMUM WEIGHT OF THE FRAME SHALL BE 210 POUNDS. MINIMUM WEIGHT OF THE COVER SHALL BE 150 POUNDS.
- CATCH BASINS TYPE I SHALL CONFORM TO CITY STANDARD DETAILS AND SHALL BE USED ONLY FOR DEPTHS LESS THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- CATCH BASINS TYPE II SHALL CONFORM TO CITY STANDARD DETAILS AND SHALL BE USED FOR DEPTHS GREATER THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- CAST IRON, OR DUCTILE IRON FRAME AND GRATE SHALL CONFORM TO CITY STANDARD DETAILS. GRATE SHALL BE MARKED WITH "DRAINS TO STREAM". SOLID CATCH BASIN LIDS (SQUARE UNLESS NOTED AS ROUND) SHALL CONFORM TO WSDOT STANDARD PLAN B-30-30-01 (OLYMPIC FOUNDRY NO.5M80 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-30-30-02 (OLYMPIC FOUNDRY NO.5M80V OR EQUAL).
- STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, OR DUCTILE IRON PIPE.
 - THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.
 - PVC PIPE SHALL BE PER ASTM D-3034, SDR 35 FOR PIPE SIZES 15-INCH AND SMALLER AND F679 FOR PIPE SIZES 18- TO 27-INCH MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
 - CONCRETE PIPE SHALL CONFORM TO THE W S D O T. STANDARD SPECIFICATIONS FOR CONCRETE UNDERDRAIN PIPE MINIMUM COVER ON CONCRETE PIPE SHALL BE NOT LESS THAN 3.0 FEET.
 - DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
- TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAILS.
- STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- ALL STORM DRAIN MAINS SHALL BE TELEVISION INSPECTED PRIOR TO FINAL ACCEPTANCE BY THE CITY. A COPY OF THE TAPE SHALL BE PROVIDED TO THE CITY.
- AFTER ALL OTHER UTILITIES ARE INSTALLED AND PRIOR TO ASPHALT WORK, ALL STORM PIPE SHALL PASS A LOW PRESSURE AIR TEST IN ACCORDANCE WITH SECTION 7-04.3(4)(d) OF THE STANDARD SPECIFICATIONS. PRODUCTS USED TO SEAL THE INSIDE OF THE PIPE ARE NOT TO BE USED TO OBTAIN THE AIR TEST.
- ALL STORM DRAIN MAINS SHALL BE MANDRELLED.
- ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES, AND PROTECTIVE MEASURES FOR CRITICAL AREAS AND SIGNIFICANT TREES SHALL BE INSTALLED PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES.

APPROVED
 BY *[Signature]*
 DATE 7.15.2009
 NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CHANGES MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER.



CITY OF PUYALLUP
 PUBLIC WORKS DEPARTMENT

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DATE 7/15/09
 DRAWN BY TORI ASHUR
 CHECKED BY TORI ASHUR
 APPROVED BY TORI ASHUR

Notes & Details

Korum Mitsubishi Southeast

Azure Green Consultants
 +feasibility +planning +engineering +surveying

409 East Pioneer, Suite A - Puyallup, WA 98772 phone: 253.770.3144 fax: 253.770.3142

Forest Contracting, Inc.
 Everett, WA 98203
 Phone: 425.452.0487 Fax: 425.432.6688

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