

PUYALLUP FAIRFIELD INN COVER SHEET AND HORIZONTAL CONTROL PLAN - ASBULT

A PORTION OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN

CITY OF PUYALLUP, 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 THE ENGINEERING DIVISION TO SCHEDULE THE MEETING (253-841-5587). THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN 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DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").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 (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- 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 STANDARD DETAILS.

- 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 (360-407-6300) PAGE 2 OF 2
- ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES 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.
- NO SURVEY MONUMENT SHALL BE REMOVED OR DESTROYED (THE PHYSICAL DISTURBANCE OR COVERING OF A MONUMENT SUCH THAT THE SURVEY POINT IS NO LONGER VISIBLE OR READILY ACCESSIBLE) BEFORE A PERMIT IS OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES (DNR). WAC 332-120-030(2) STATES "IT SHALL BE THE RESPONSIBILITY OF <THOSE> PERFORMING CONSTRUCTION WORK OR OTHER ACTIVITY (INCLUDING ROAD AND STREET RESURFACING PROJECTS) TO ADEQUATELY SEARCH THE RECORDS AND THE PHYSICAL AREA OF THE PROPOSED CONSTRUCTION WORK OR OTHER ACTIVITY FOR THE PURPOSE OF LOCATING AND REFERENCING ANY KNOWN OR EXISTING SURVEY MONUMENTS." CONSTRUCTION SHALL NOT COMMENCE UNTIL WAC OUTLINED IN CHAPTER 332-120 IS COMPLIED WITH. SURVEY MONUMENTS SUBJECT TO WAC 332-120-030(2) INCLUDE LOCAL CONTROL POINTS AND LAND BOUNDARY SURVEY CORNERS.

GRADING QUANTITIES:

CUT = 38,800 C.Y.
FILL = 1,000 C.Y.
NET = 37,800 C.Y. / CUT

NOTE: QUANTITIES CALCULATED FROM EXISTING GRADE TO FINISH GRADE. STRIPPING OR SOIL SUITABILITY NOT ACCOUNTED FOR.

NOTE: THE ABOVE QUANTITIES ARE ESTIMATES ONLY. THEY ARE INTENDED FOR THE PERMITTING PROCESS. DO NOT USE FOR BID PURPOSES.

LINE	LENGTH	BEARING
L1	122.48'	S67°27'53"E
L2	51.25'	S22°32'07"W
L3	2.02'	S67°27'53"E
L4	33.50'	S22°32'07"W
L5	156.04'	S67°27'53"E

METHODS AND EQUIPMENT

SURVEY PERFORMED WITH A 1" TOTAL STATION, USING TRAVERSE AND RADIAL SURVEY METHODS. SURVEY MEETS OR EXCEEDS ACCURACY REQUIREMENTS IN WAC 332.130.090

EASEMENT NOTES

- SUBJECT TO AN EASEMENT FOR THE CONSTRUCTION AND MAINTENANCE OF A DRAINAGE FACILITY GRANTED TO THE CITY OF PUYALLUP UNDER AFN 9112110436 AS PLOTTED HEREON.
- SUBJECT TO A STORM WATER DETENTION EASEMENT GRANTED TO THE CITY OF PUYALLUP UNDER AFN 8605200319 AS PLOTTED HEREON.

TOPOGRAPHIC SURVEY NOTES

- DATA FOR THIS SURVEY WAS GATHERED BY FIELD TRAVERSE UTILIZING ELECTRONIC DATA COLLECTION.
- CONTOUR INTERVALS ARE TWO FOOT AND ARE COMPUTER GENERATED FROM GROUND FIELD TOPOGRAPHY GATHERED FOR THIS SURVEY UTILIZING ELECTRONIC DATA COLLECTION.
- THE PURPOSE OF THIS SURVEY IS TO PROVIDE A TOPOGRAPHIC BASE-MAP OF THE EXISTING CONDITIONS WITHIN PARCEL C FOR PLANNING, DESIGN AND CONSTRUCTION.
- APEX ENGINEERING ASSUMES NO LIABILITY FOR ANY SUBSURFACE CONDITIONS OR FEATURES THAT MAY EXIST THAT ARE UNDETECTABLE AND/OR NOT VISIBLE.

BOUNDARY NOTE

- THE SUBJECT PARCEL WAS CALCULATED USING BOUNDARY LINE ADJUSTMENT AFN 9905275001 AND HOLDING STATE PLANE COORDINATES ON PIERCE COUNTY PUBLIC WORKS MONUMENTS #2211 AND #2212. THE BEARING BETWEEN SAID MONUMENTS WAS HELD AND ALL RESPECTIVE BEARINGS LISTED ON SAID BOUNDARY LINE ADJUSTMENT WERE ROTATED TO CORRESPOND TO THIS BEARING.

LEGEND

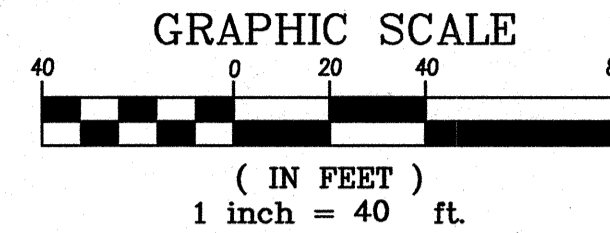
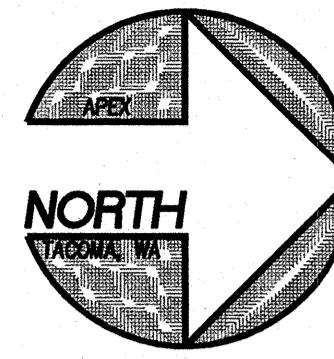
- FOUND MONUMENT AS NOTED
- FOUND REBAR AND CAP/IRON PIPE AS NOTED
- ⊙ SET APEX CONTROL POINT HUB & TACK/ NAIL & FLASHER AS NOTED
- ⊙ SET APEX REBAR & CAP L# 34130
- EXISTING STORMWATER CATCHBASIN
- ⊕ EXISTING WATER VALVE
- ⊕ EXISTING FIRE HYDRANT
- EXISTING MAJOR CONTOUR INTERVAL
- EXISTING MINOR CONTOUR INTERVAL
- ▭ PROPOSED CONCRETE SIDEWALK
- ▭ PROPOSED PAVEMENT
- 62 — PROPOSED 1' CONTOURS
- WETLAND BUFFER
- TFW TOP FACE OF WALL ELEVATION
- BFW BOTTOM FACE OF WALL ELEVATION
- STRUCTURAL WALL TO BE DESIGNED BY OTHERS
- INVERTED CROWN
- SS— SANITARY SEWER LINE
- SD— STORM LINE
- WATER LINE
- F— FIRE LINE
- UE— COMBINED UTILITY TRENCH
- P— POWER LINE
- G— GAS LINE
- T— TELEPHONE LINE

SHEET INDEX

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- SHEET 2 - T.E.S.C. PLAN
- SHEET 3 - T.E.S.C. NOTES AND DETAILS
- SHEET 4 - GRADING PLAN
- SHEET 5 - GRADING DETAILS
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- SHEET 10 - SEWER AND WATER PLAN
- SHEET 11 - OFFSITE SEWER PLAN AND PROFILE
- SHEET 12 - SEWER AND WATER DETAILS
- SHEET 13 - SEWER AND WATER DETAILS
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ONE-CALL NOTE:
#1-800-424-5555

BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORD MAPS FURNISHED BY OTHERS AND VERIFIED WHERE POSSIBLE BY FEATURES LOCATED IN THE FIELD. APEX ENGINEERING ASSUMES NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS, OR FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO THE DESIGN.



PARCEL NUMBER

0420338067
2.73 ACRES
THE PARCEL IS NOT IN A FEMA FLOODPLAIN

LEGAL DESCRIPTION

(AS PER TITLE REPORT FROM CHICAGO TITLE, ORDER NO.: 4333354) REVISED PARCEL C, BOUNDARY LINE ADJUSTMENT RECORDED 9905275001, ACCORDING TO THE MAP THEREOF RECORDED MAY 27, 1999, RECORDS OF PIERCE COUNTY AUDITOR.

ZONING:

CG - GENERAL COMMERCIAL

BASIS OF BEARINGS

HELD NORTH 89°58'10" WEST BETWEEN PIERCE COUNTY MONUMENT #2211 AT THE INTERSECTION OF 15TH AVE. & MERIDIAN AVE. AND PIERCE COUNTY MONUMENT #2212 AT THE INTERSECTION OF 15TH AVE. & 5TH ST.

VERTICAL DATUM

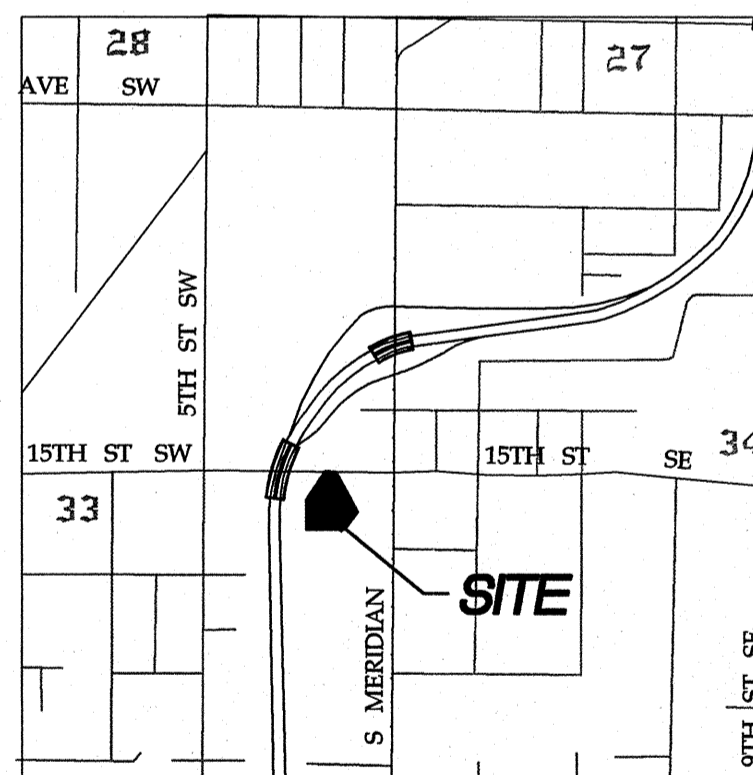
NGVD 29
REFERENCE BENCHMARKS

BM 153-6
PUBLISHED ELEVATION: 81.21'
DESCRIPTION: BRASS MON IN CASE AT THE INTERSECTION OF 15TH AVENUE SW & 9TH STREET

BM 155-1
PUBLISHED ELEVATION: 49.112'
DESCRIPTION: BRASS MON IN CASE AT THE INTERSECTION OF 15TH AVENUE SW & 5TH STREET, P.C.P.W.D. #2212

REFERENCE

- BOUNDARY LINE ADJUSTMENT AFN 9905275001
- BOUNDARY LINE ADJUSTMENT AFN 9909245005
- SHORT PLAT AFN 8607070251



VICINITY MAP

SCALE: 1" = 1/4 MILE

SITE ADDRESS

202 15TH AVENUE SW
PUYALLUP, WA

APPROVED

BY _____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE _____

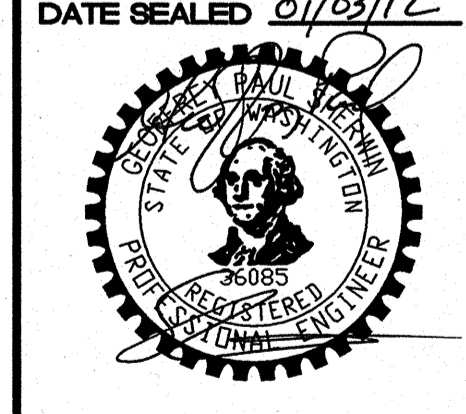
NOTE:

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 CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER

REV NO	REVISION DESCRIPTION	DATE BY



CLIENT
HOLLANDER INVESTMENTS, INC.
119 NORTH COMMERCIAL, SUITE 165
BELLINGHAM, WA 98225
360-647-1916



PROJECT MANAGER
MELVIN GARLAND, PLS

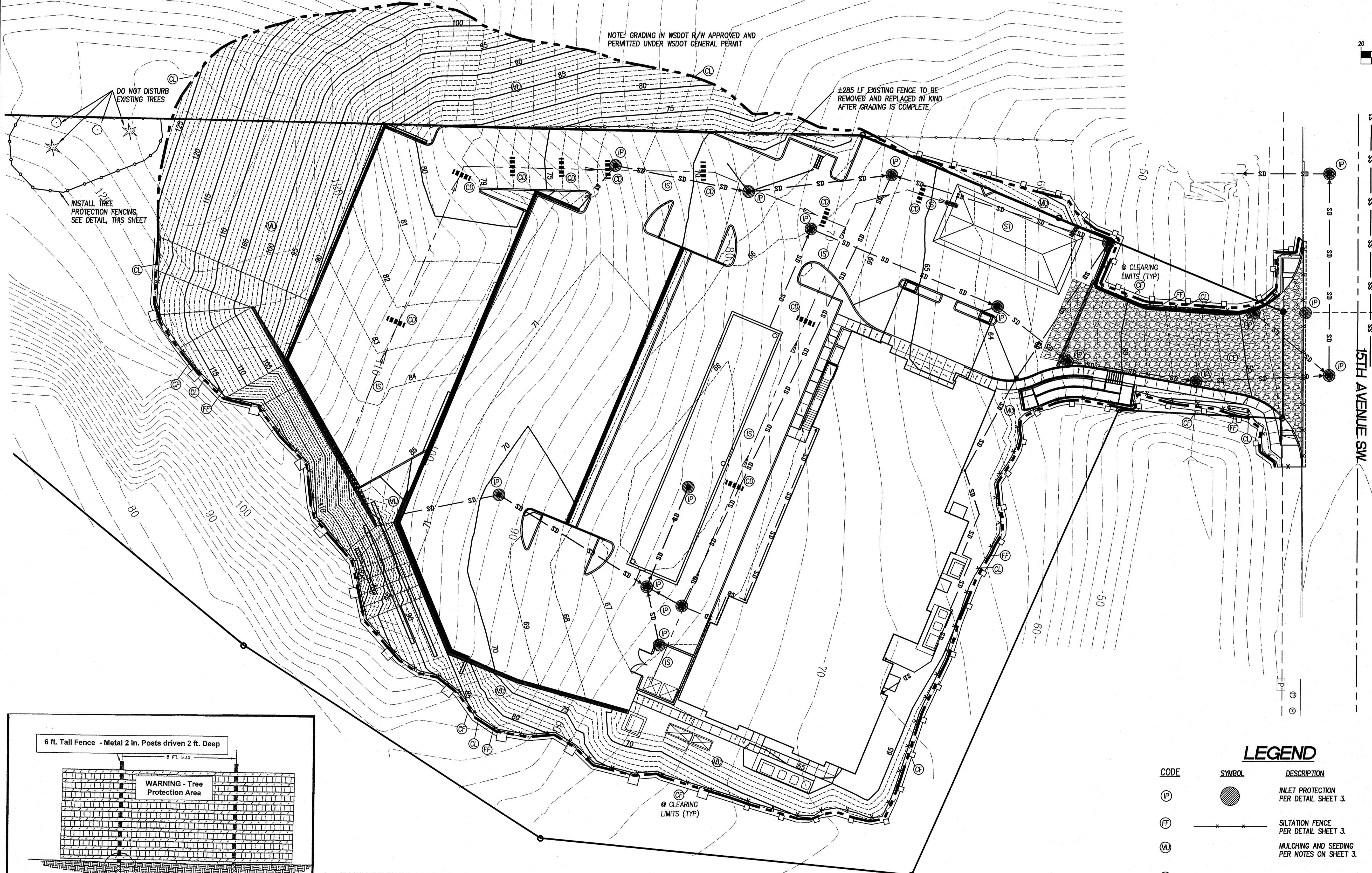
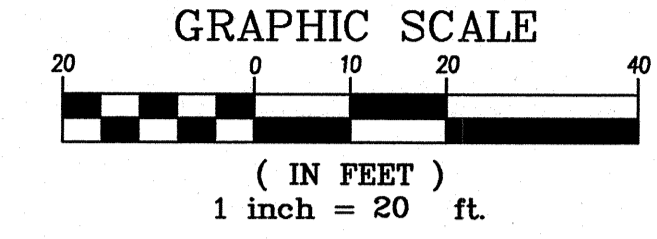
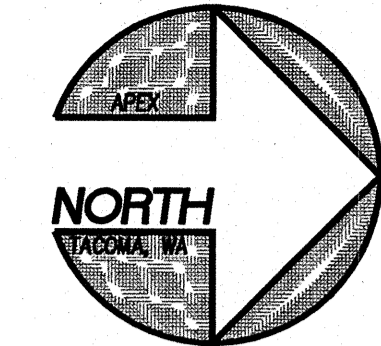
DESIGN F. JACOBS
DRAWN S. JOHNSON
CHECKED _____
SEC 33 T 20N R 4E
FILE NO 31815M/K
DATE 01-08-11
SCALE AS NOTED

SHEET 1 OF 14
FILE NO 31815

PUYALLUP FAIRFIELD INN

T.E.S.C. PLAN - ASBUILT

A PORTION OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



NOTE: GRADING IN WSDOT R/W APPROVED AND PERMITTED UNDER WSDOT GENERAL PERMIT

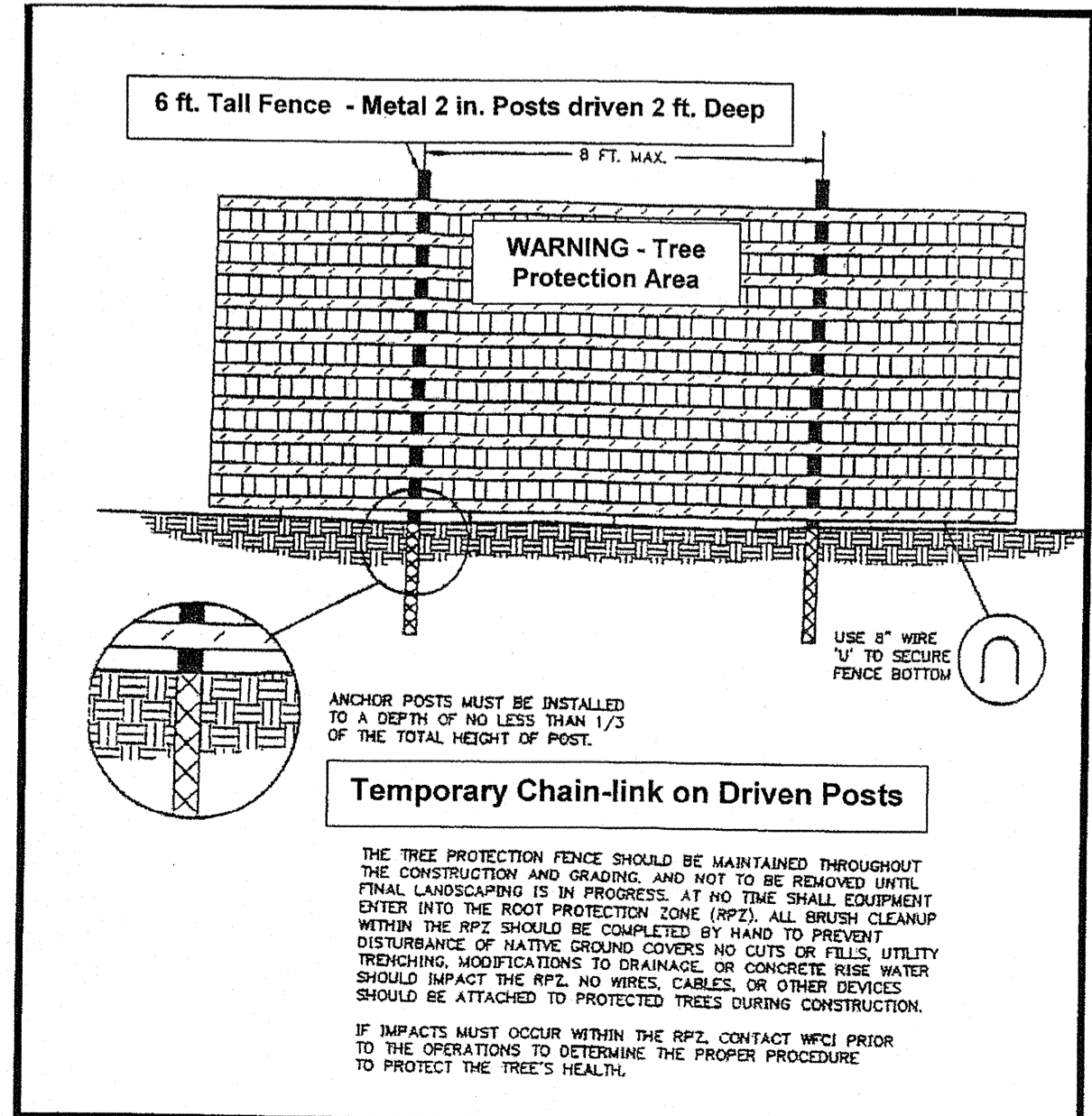
±285 LF EXISTING FENCE TO BE REMOVED AND REPLACED IN KIND AFTER GRADING IS COMPLETE

DO NOT DISTURB EXISTING TREES

INSTALL TREE PROTECTION FENCING. SEE DETAIL, THIS SHEET

CLEARING LIMITS (TYP)

15TH AVENUE SW



- ORANGE MESH FENCING ON METAL T-BAR FENCE POSTS CAN BE USED IN LIEU OF CHAIN LINK FENCE ONLY IF APPROVED BY THE CITY OF PUYALLUP PRIOR TO ANY SITE DISTURBANCE.
- FENCING SHALL NOT BE PLACED CLOSER THAN 5 FEET BEYOND THE DRIPLINE FOR EACH TREE.
- NOXIOUS VEGETATION (BLACKBERRY AND ENGLISH IVY) WITHIN THE FENCED AREA SHOULD BE REMOVED BY HAND OR SELECTIVELY TREATED WITH AN APPROPRIATE HERBICIDE.
- PLACE SIGNAGE NEAR THE TOP OF THE FENCE AT 20 FOOT INTERVALS USING AN APPROVED ALL-WEATHER FORMAT (I.E. LAMINATED). SIGNS SHALL BE A MINIMUM OF 8.5 x 11 INCHES AND CLEARLY STATE: "WARNING - TREE PROTECTION ZONE - THIS FENCE SHALL NOT BE REMOVED, MODIFIED OR ALTERED AND NO PERSON, PIECE OF EQUIPMENT, STORAGE OF MATERIALS OR ANY OTHER ITEM SHALL ENCR OACH BEYOND THE BOUNDARIES OF THIS FENCE AS ESTABLISHED WITHOUT PRIOR APPROVAL FROM THE CITY OF PUYALLUP PLANNING DIVISION. ANY INJURY TO THESE TREES IS SUBJECT TO PENALTY ACCORDING TO PMC 20.95."

TREE PROTECTION FENCING DETAIL

N.T.S.

LEGEND

CODE	SYMBOL	DESCRIPTION
IP		INLET PROTECTION PER DETAIL SHEET 3.
FT		SILTATION FENCE PER DETAIL SHEET 3.
ML		MULCHING AND SEEDING PER NOTES ON SHEET 3.
CL		CLEARING LIMITS
CE		CONSTRUCTION ENTRANCE PER DETAIL SHEET 3
IS		INTERCEPTOR SWALE PER DETAIL SHEET 3
ST		SEDIMENT TRAP PER DETAIL SHEET 3
CD		CHECK DAM PER DETAIL SHEET 3
CF		CONSTRUCTION FENCE PER DETAIL SHEET 3

ONE-CALL NOTE: #1-800-424-5555

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APPROVED

BY _____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE _____

NOTE:
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THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER

REV. NO.	REVISION DESCRIPTION	DATE BY

Apex
Engineering &
2601 South 35th, Suite 200
Tacoma, Washington 98409-7479
(253) 473-4484 FAX: (253) 473-0599

TITLE PUYALLUP FAIRFIELD INN
T.E.S.C. PLAN

CLIENT HOLLANDER INVESTMENTS, INC.
189 NORTH COMMERCIAL, SUITE 605
BELLINGHAM, WA 98225
360-647-8916

DATE SEALED 01/23/12

PROJECT MANAGER
MELVIN GARLAND, PLS

DESIGN F. JACOBS
DRAWN S. JOHNSON
CHECKED S. JOHNSON
SEC 33 T 20N R 4E
FILE NO 31815MRK
DATE 01-09-11
SCALE AS NOTED
SHEET 2 OF 14
FILE NO 31815

T.E.S.C. INSPECTION SCHEDULE

- CONTRACTOR TO INSPECT ALL EROSION CONTROL FACILITIES AFTER EACH STORM EVENT AND REPAIR OR MODIFY AS NECESSARY.
- CONTRACTOR TO INSPECT AFTER T.E.S.C. FACILITIES INSTALLATION PRIOR TO GRADING /CLEARING
- CONTRACTOR TO INSPECT UPON STABILIZATION OF SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE.

MULCHING NOTES:

- MULCH MATERIALS USED SHALL BE HAY OR STRAW, AND SHALL BE APPLIED AT THE RATE OF 75 TO 100 POUNDS PER 1000 SQ FT (APPROX. 2-INCHES THICK).
- MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING OR IN AREAS WHICH CANNOT BE SEEDD BECAUSE OF THE SEASON.
- ALL AREAS NEEDING MULCH SHALL BE COVERED BY NOVEMBER 1.

EROSION CONTROL SEEDING MIX:

- SEEDING - APPLY THE FOLLOWING MIXTURE TO THE PREPARED SEED BED AT A RATE OF 120 LBS/ACRE:

NAME	PROPORTIONS BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
REDTOP (AGROSTIS ALBA)	10%	92	90
ANNUAL RYE (LOLIUM MULTIFLORUM)	40%	98	90
CHEWINGS FESCUE (FESTUCA RUBRA COMMUTATA)	40%	97	80
(JAMESTOWN, BANNER, SHADOW OR KOKET) WHITE DUTCH CLOVER (TRIFOLIUM REPENS)	10%	96	90

- SEED BEDS PLANTED BETWEEN MAY AND OCTOBER 31 WILL REQUIRE IRRIGATION AND OTHER MAINTENANCE AS NECESSARY TO FOSTER AND PROTECT THE ROOT STRUCTURE.

- FOR SEED BEDS PLANTED BETWEEN OCTOBER 31 AND APRIL 30, ARMORING OF THE SEED BED WILL BE NECESSARY. (E.G., GEOTEXTILES, JUTE MAT, CLEAR PLASTIC COVERING).

- BEFORE SEEDING, INSTALL NEEDED SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKES, SWALES, LEVEL SPREADERS AND SEDIMENT BASINS.

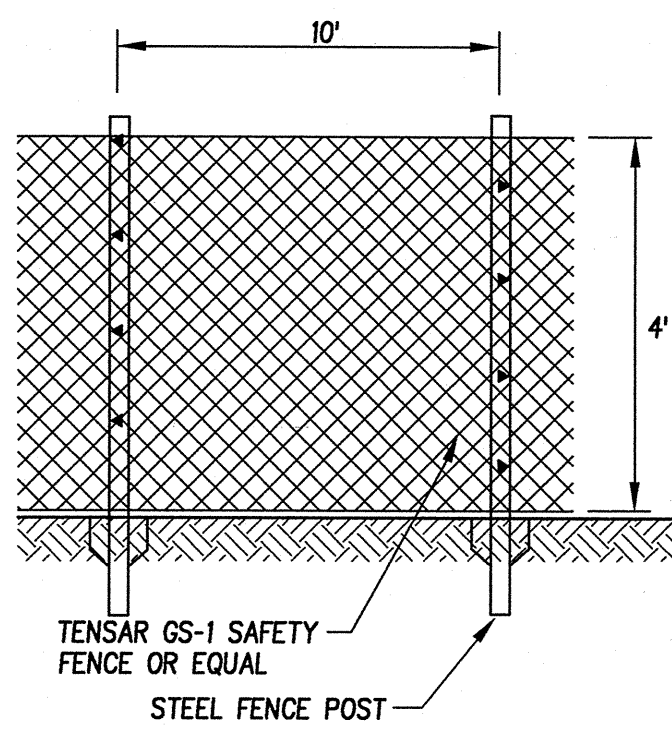
- THE SEEDBED SHALL BE FIRM WITH A FAIRLY FINE SURFACE, FOLLOWING SURFACE ROUGHENING. PERFORM ALL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE.

- FERTILIZERS ARE TO BE USED ACCORDING TO SUPPLIERS RECOMMENDATIONS. AMOUNTS USED SHOULD BE MINIMIZED, ESPECIALLY ADJACENT TO WATER BODIES AND WETLANDS.

- BIOSWALE SEED MIXTURE
- | NAME | BY WEIGHT | PURITY | GERMINATION |
|------------------------------------|-----------|--------|-------------|
| CREeping RED FESCUE | 60 | | |
| RED TOP (AGROSTIS ALBA) (PENNLAWN) | 40 | | |

* APPLY THIS MIXTURE AT A RATE OF 60 LBS/ACRE

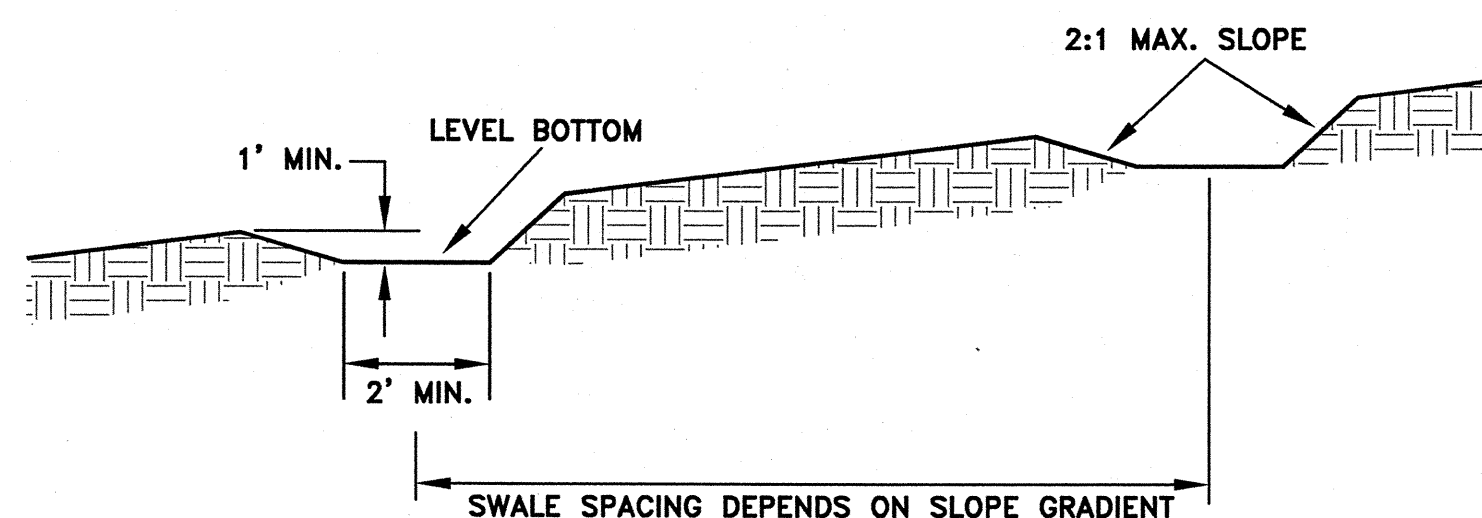
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- NOTE**
- CLIP FENCE TO GALVANIZED WIRE
 - WIRE FENCE TO STEEL FENCE POST
 - REMOVE TENSAR SAFETY FENCE UPON COMPLETION OF SITE IMPROVEMENTS INCLUDING BUILDING.

CONSTRUCTION FENCE DETAIL

N.T.S.

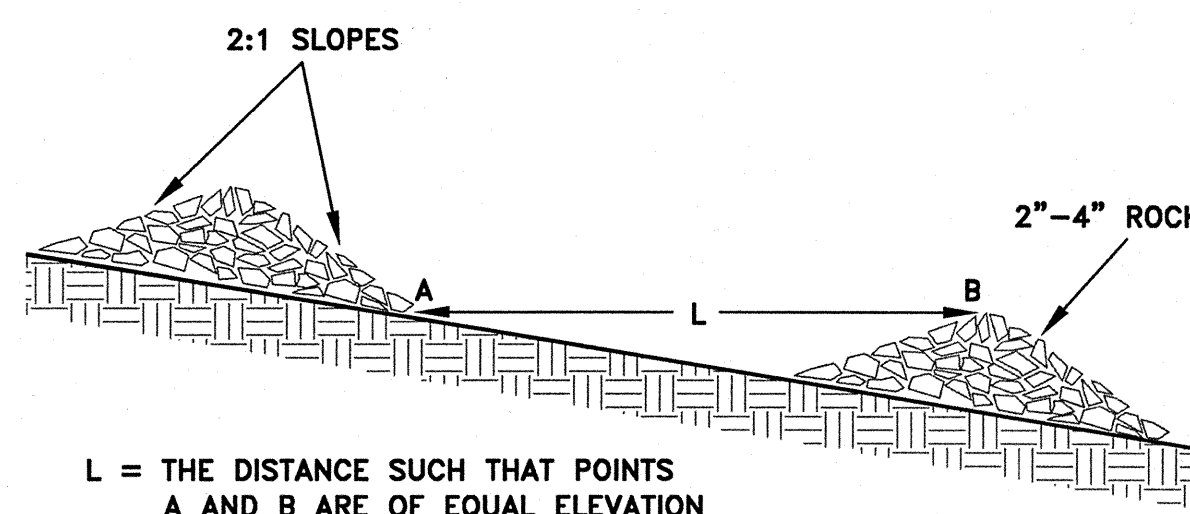


INTERCEPTOR SWALE DETAIL

N.T.S.

GRADING, EROSION AND SEDIMENTATION CONTROL 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 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.
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- 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.



CHECK DAM DETAIL

N.T.S.

EROSION CONTROL CONSTRUCTION SEQUENCE:

- HOLD PRE-CONSTRUCTION CONFERENCE.
- INSTALL CONSTRUCTION FENCING ALONG CAO (CRITICAL AREAS ORDINANCE) LIMITS.
- INSTALL TREE PROTECTION FENCING.
- OBTAIN CITY OF PUYALLUP INSPECTION AND APPROVAL BY THE CITY OF PUYALLUP PLANNING DEPARTMENT.
- INSTALL EROSION CONTROL.
- MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY'S MINIMUM REQUIREMENTS.
- THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL FACILITIES PRIOR TO ALL KNOWN/PREDICTED AND AFTER ALL STORM EVENTS.
- IF ANY SILTATION IS OBSERVED LEAVING THE SITE STRAW, WOOD FIBER, MULCH, PLASTIC SHEETING OR EQUIVALENT MUST BE IMPLEMENTED IMMEDIATELY AND STABILIZED PRIOR TO PROCEEDING.
- STABILIZE SITE.
- REMOVE T.E.S.C. FACILITIES.

NOTES:

ANY CURB, GUTTER OR SIDEWALK BROKEN NOW OR DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR PER CITY STANDARDS AT NO ADDITIONAL COST TO THE CITY.

AT ANY TIME DURING CONSTRUCTION IT IS DETERMINED BY THE CITY THAT MUD AND DEBRIS ARE BEING TRACKED ONTO PUBLIC STREETS WITH INSUFFICIENT CLEANUP, ALL WORK SHALL CEASE ON THE PROJECT UNTIL THIS CONDITION IS CORRECTED. THE CONTRACTOR AND/OR THE OWNER SHALL IMMEDIATELY TAKE ALL STEPS NECESSARY TO PREVENT FUTURE TRACKING OF MUD AND DEBRIS INTO THE PUBLIC ROW, WHICH MAY INCLUDE THE INSTALLATION OF A WHEEL WASH FACILITY ON-SITE.

ALL EXPOSED SOILS AT FINAL GRADE SHALL BE STABILIZED IMMEDIATELY USING PERMANENT OR TEMPORARY MEASURES. EXPOSED SOILS WITH AN AREA GREATER THAN 5,000 SQUARE FEET THAT ARE SCHEDULED TO REMAIN UNWORKED FOR MORE THAN 24 HOURS AND EXPOSED AREAS OF LESS THAN 5,000 SQUARE FEET THAT WILL REMAIN UNWORKED FOR MORE THAN SEVEN (7) DAYS SHALL BE STABILIZED IMMEDIATELY.

- 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.

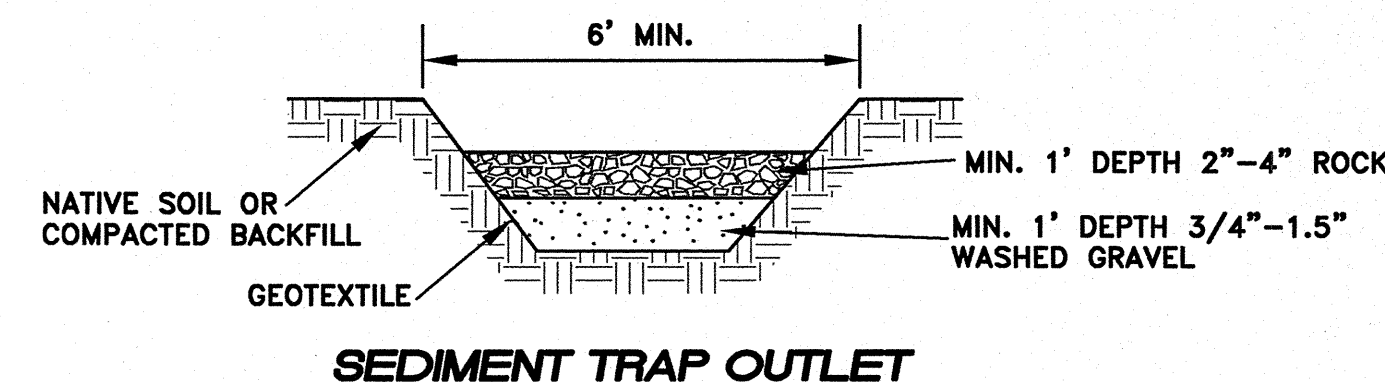
- THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON 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.

- 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.

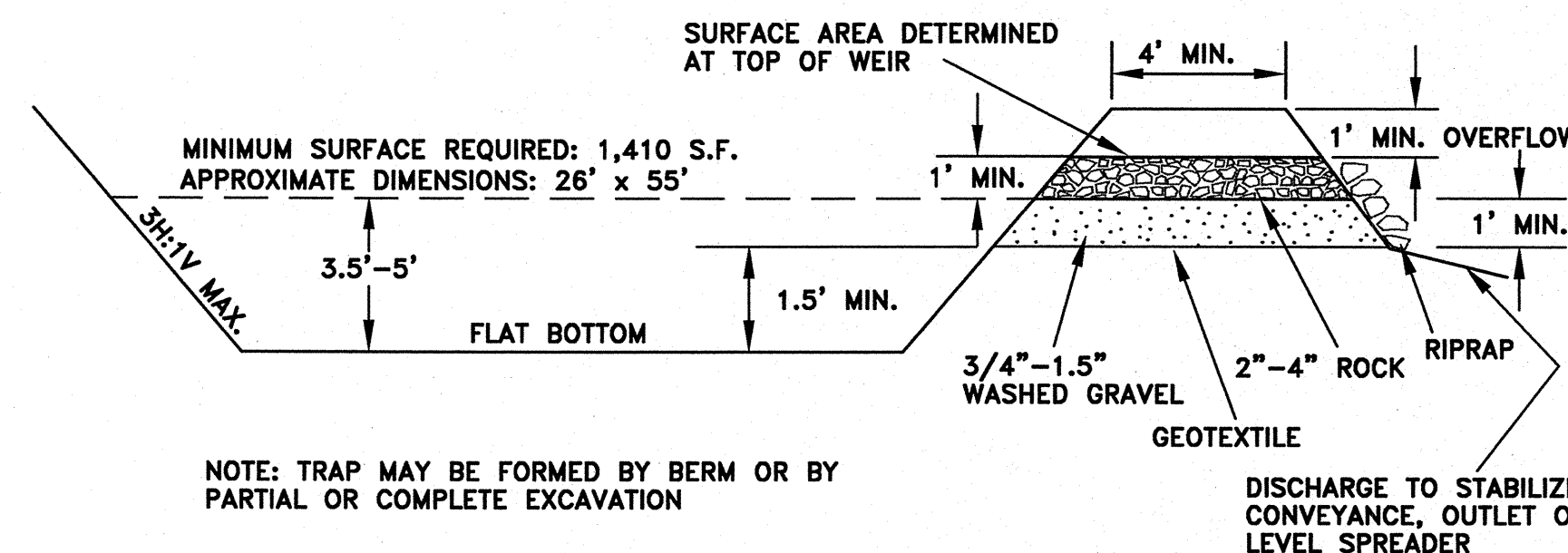
- ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE 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.



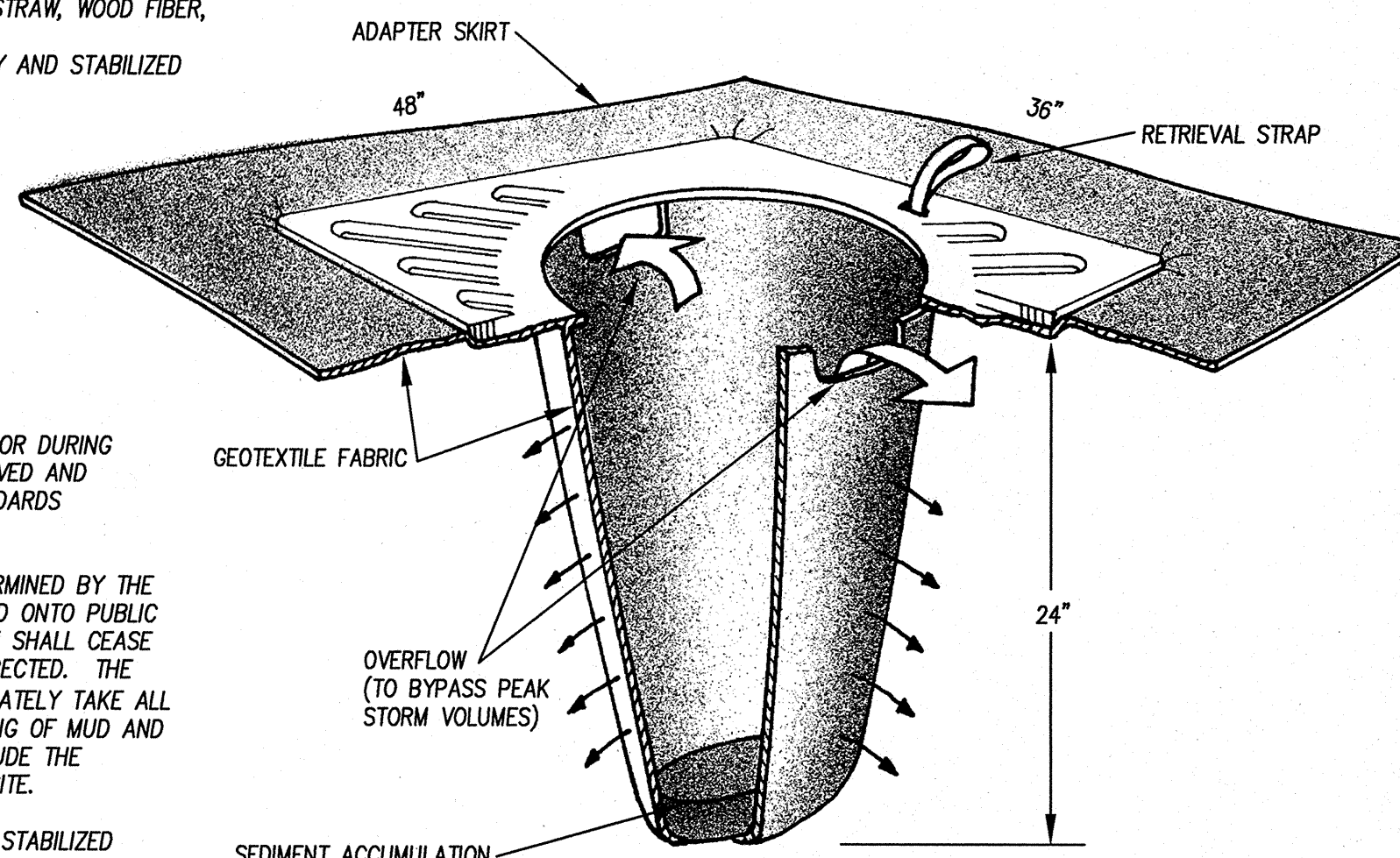
SEDIMENT TRAP OUTLET



SEDIMENT TRAP DETAIL

N.T.S.

NOTE: TRAP MAY BE FORMED BY BERM OR BY PARTIAL OR COMPLETE EXCAVATION



CATCH BASIN INLET PROTECTION

ONE-CALL NOTE:
#1-800-424-5555

BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORD MAPS FURNISHED BY OTHERS AND VERIFIED WHERE POSSIBLE BY FEATURES LOCATED IN THE FIELD. APEX ENGINEERING ASSUMES NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS, OR FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO THE DESIGN.

APPROVED

BY _____ CITY OF PUYALLUP
 ENGINEERING SERVICES

DATE _____

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 CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

REV NO	REVISION DESCRIPTION	DATE BY

Apex Engineering
 2801 South 35th, Suite 200
 Tacoma, Washington 98409-7479
 (253) 473-4494 FAX: (253) 473-0599

PUYALLUP FAIRFIELD INN
 T.E.S.C. NOTES AND DETAILS

HOLLANDER INVESTMENTS, INC.
 119 NORTH COMMERCIAL, SUITE 165
 BELLINGHAM, WA 98225
 360-647-8916

CLIENT

DATE SEALED 01/03/12

PROJECT MANAGER
 MELVIN GARLAND, PLS

DESIGN F.JACOBS
DRAWN B.JOHNSON
CHECKED _____
SEC 33 T 20N R 4E
FILE NO 31815MRK
DATE 01-03-11
SCALE AS NOTED

SHEET 3 OF 14
FILE NO 31815

CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

TEMPORARY CONSTRUCTION ENTRANCE

DATE: 05.01.01

CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

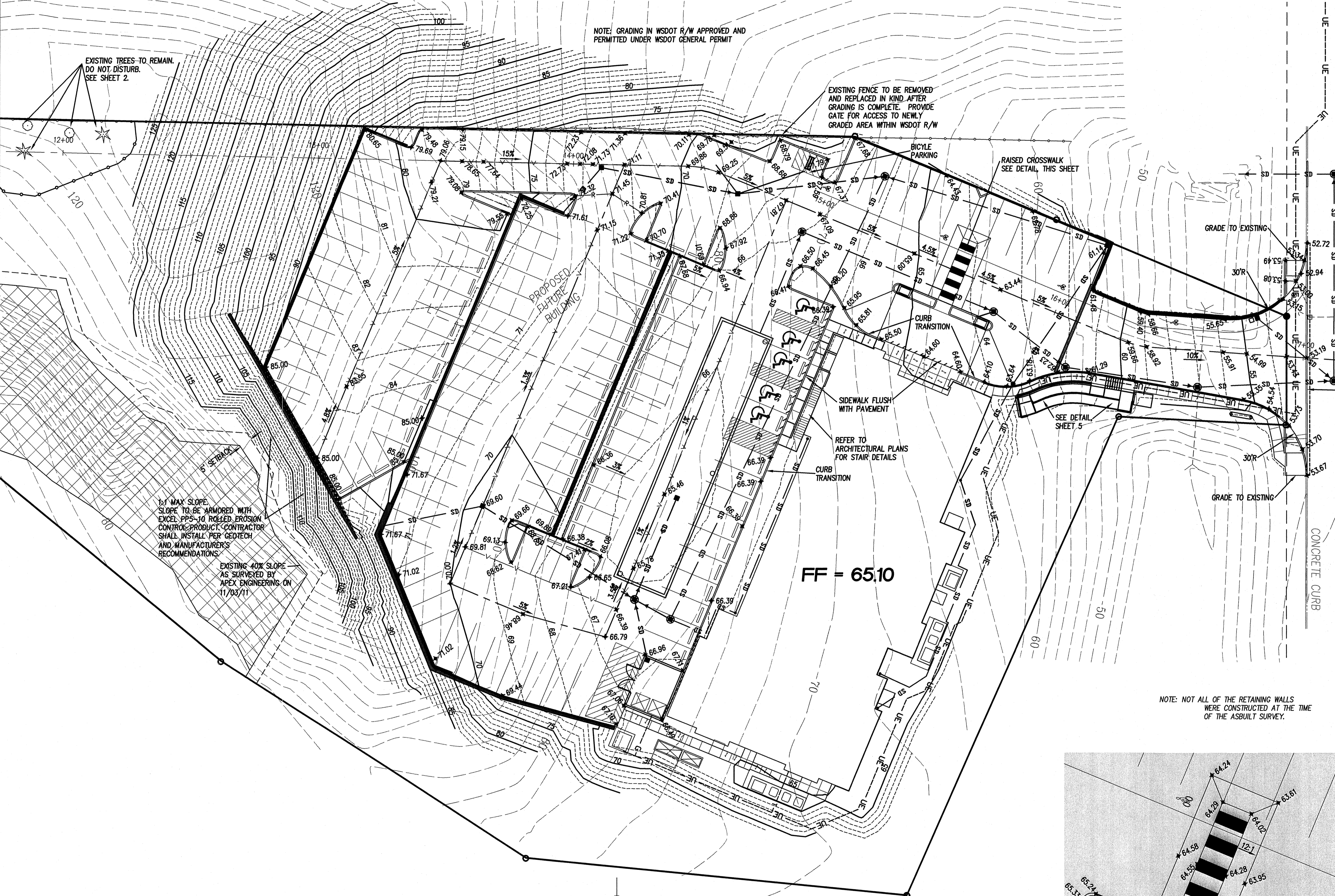
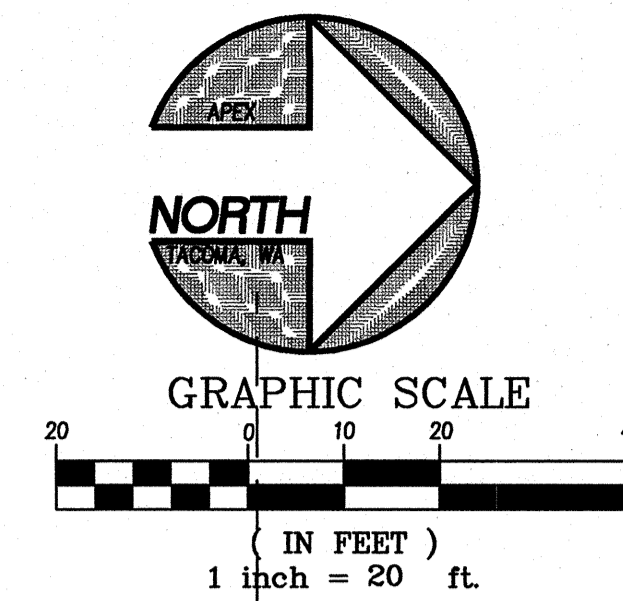
SILTATION FENCE

DATE: 02.03.02

PUYALLUP FAIRFIELD INN

GRADING PLAN - ASBUILT

A PORTION OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



NOTE: GRADING IN WSDOT R/W APPROVED AND PERMITTED UNDER WSDOT GENERAL PERMIT

EXISTING FENCE TO BE REMOVED AND REPLACED IN KIND AFTER GRADING IS COMPLETE. PROVIDE GATE FOR ACCESS TO NEWLY GRADED AREA WITHIN WSDOT R/W

EXISTING TREES TO REMAIN. DO NOT DISTURB. SEE SHEET 2.

1:1 MAX SLOPE TO BE ARMORED WITH EXCEL PPS-10 ROLLED EROSION CONTROL PRODUCT. CONTRACTOR SHALL INSTALL PER GEOTECH AND MANUFACTURER'S RECOMMENDATIONS.
EXISTING 40% SLOPE AS SURVEYED BY APEX ENGINEERING ON 11/03/11

FF = 65.10

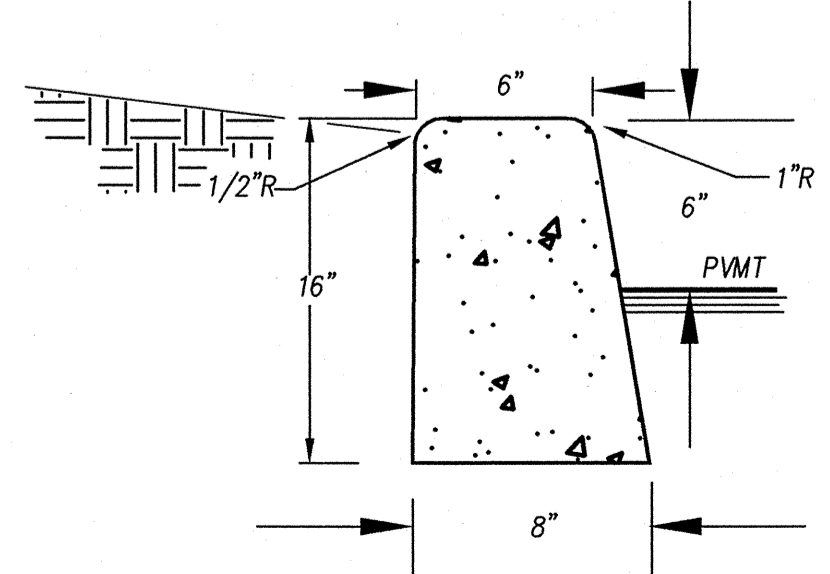
NOTE: NOT ALL OF THE RETAINING WALLS WERE CONSTRUCTED AT THE TIME OF THE ASBUILT SURVEY.

GRADING PLAN NOTES:

1. ALL SPOT ELEVATIONS ARE AT FLOWLINE UNLESS OTHERWISE NOTED.
2. ELEVATIONS ALONG DRIVE AISLES AND PARKING AREA ARE AT FINISH GRADE.
3. SEE SHEET 5 FOR WALL INFORMATION.

ONE-CALL NOTE: #1-800-424-5555

BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORD MAPS FURNISHED BY OTHERS AND VERIFIED WHERE POSSIBLE BY FEATURES LOCATED IN THE FIELD. APEX ENGINEERING ASSUMES NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS, OR FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO THE DESIGN.

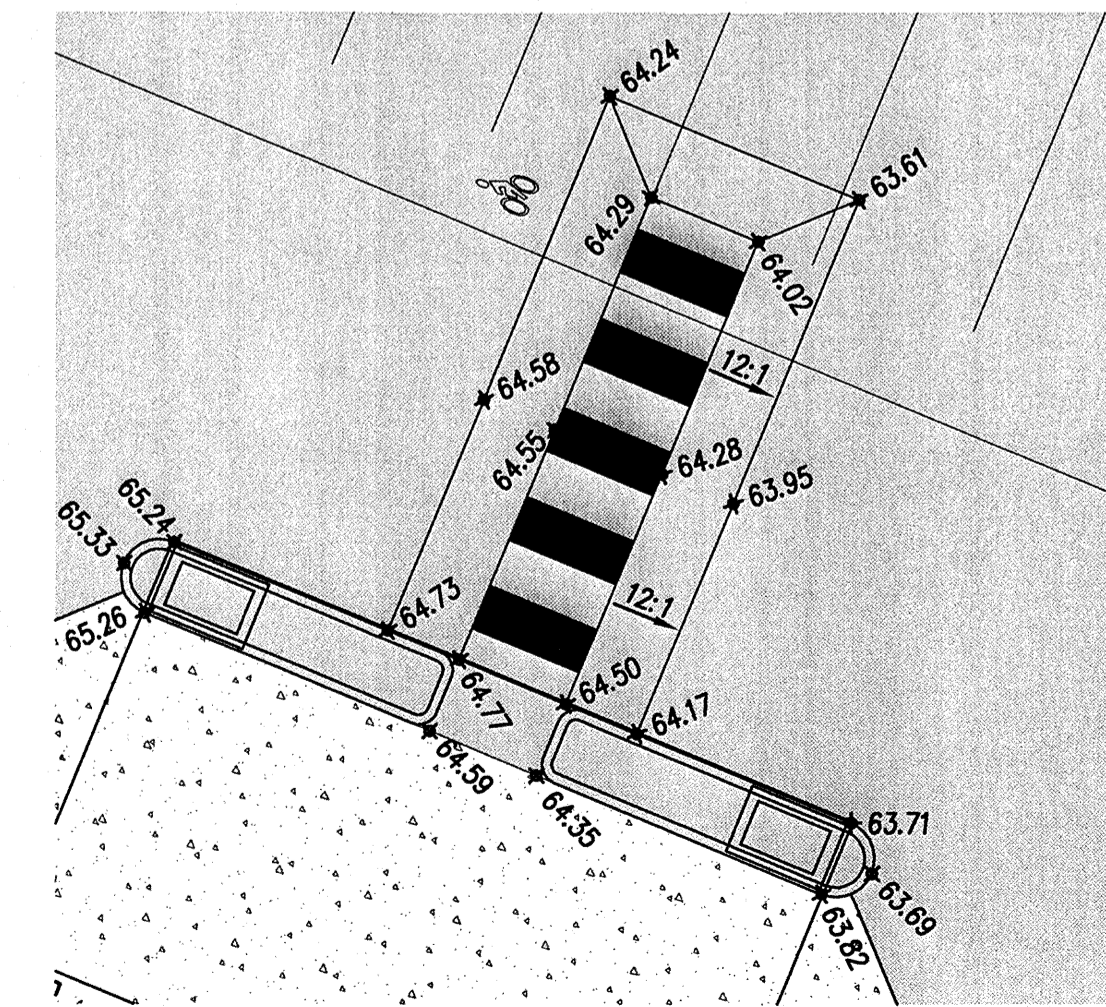


CURB DETAIL
N.T.S.

- GENERAL NOTES:**
- DUMMY JOINTS Shall be placed not to exceed 15' C/C, they shall be not less than 3/16" in thickness and shall extend 2" below the gutter line.
 - THRU JOINTS 3/4" Thru Joints shall be placed at all cold joints or as directed by the engineer and shall extend 1" below bottom of concrete.
 - MATERIALS Shall meet the requirements of these specifications.
 - CONCRETE Shall be cement concrete class 5 (1 1/2) or 5(2/4).

CURB NOTES:

1. ALL CURB IS TO BE PER DETAIL BELOW EXCEPT AS NOTED ON PLANS.



RAISED CROSSWALK DETAIL
1" = 10'

APPROVED

BY: CITY OF PUYALLUP
ENGINEERING SERVICES

DATE:

NOTE:
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FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

REV NO	REVISION DESCRIPTION	DATE BY

Apex Engineering
2601 South 35th, Suite 200
Tacoma, Washington 98409-7479
(253) 473-4484 FAX: (253) 473-0599

CLIENT
HOLLANDER INVESTMENTS, INC.
19 NORTH COMMERCIAL, SUITE 165
BELLINGHAM, WA 98225
360-647-9196

TITLE
PUYALLUP FAIRFIELD INN
GRADING PLAN

DATE SEALED: 01/03/11



PROJECT MANAGER
MELVIN GARLAND, PLS

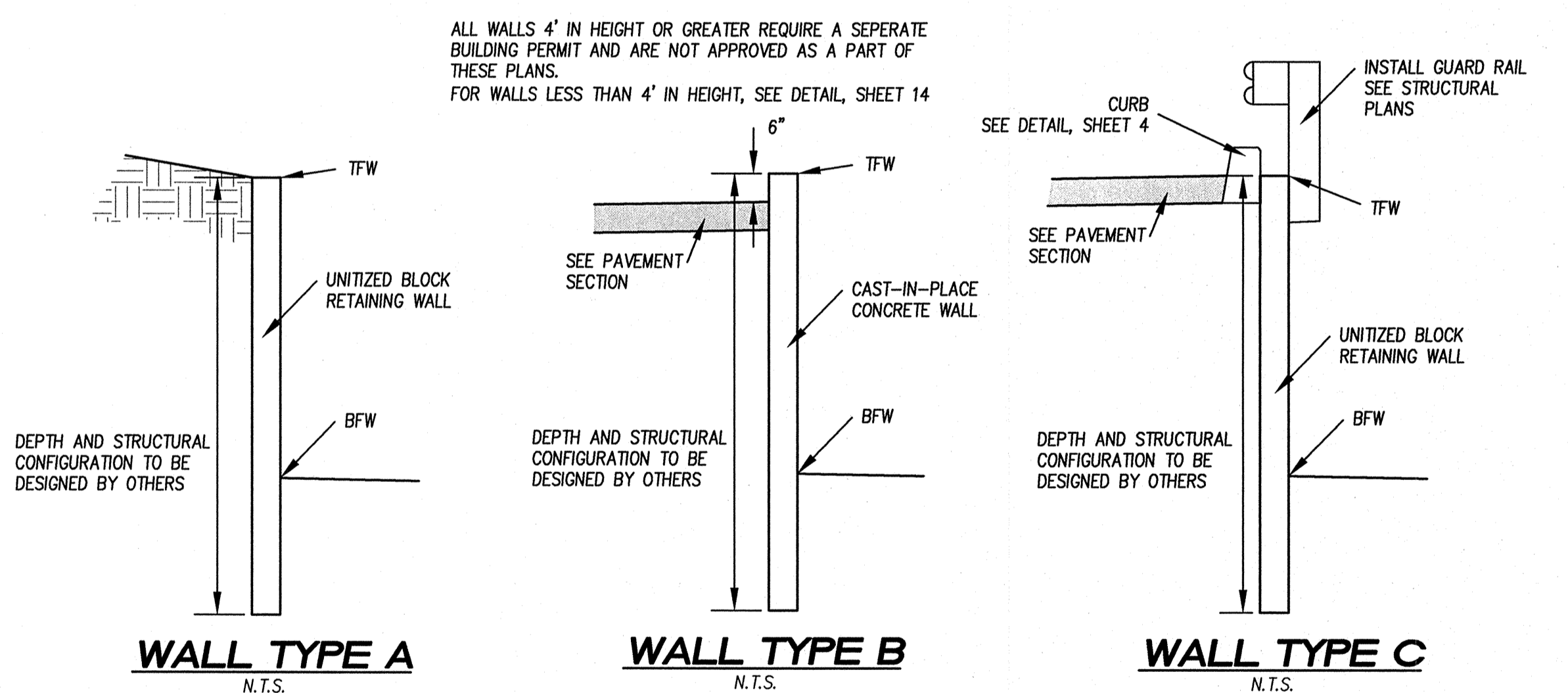
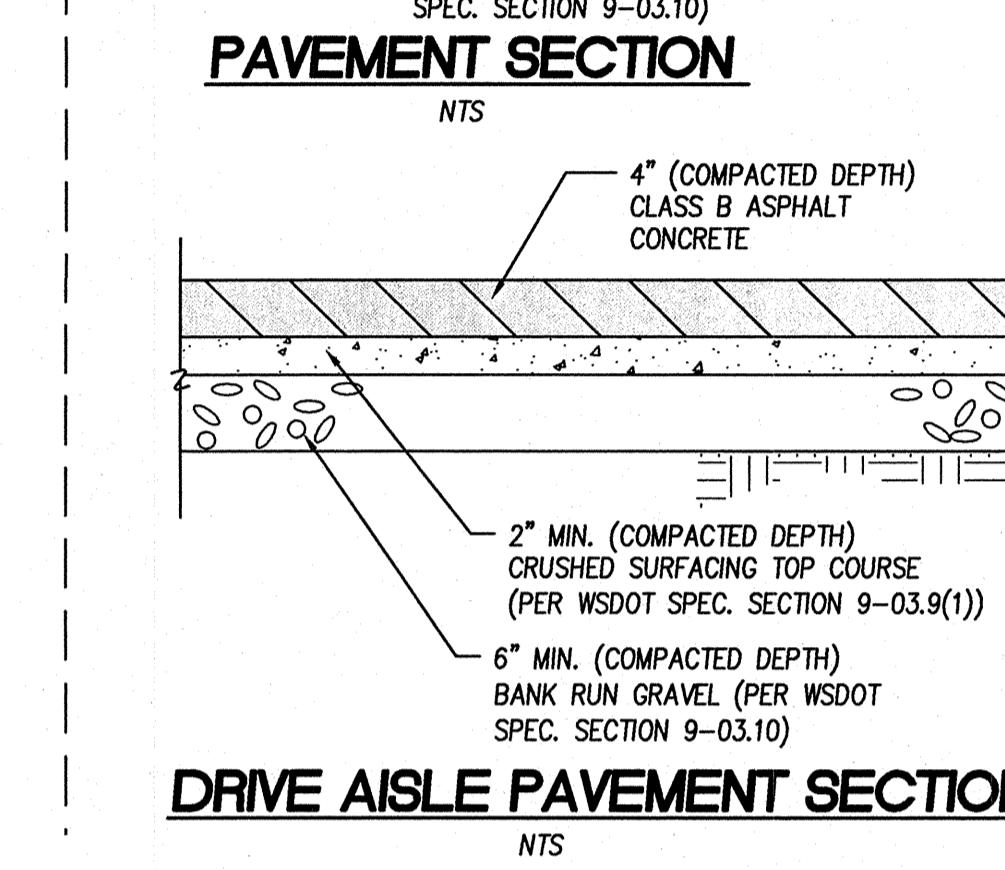
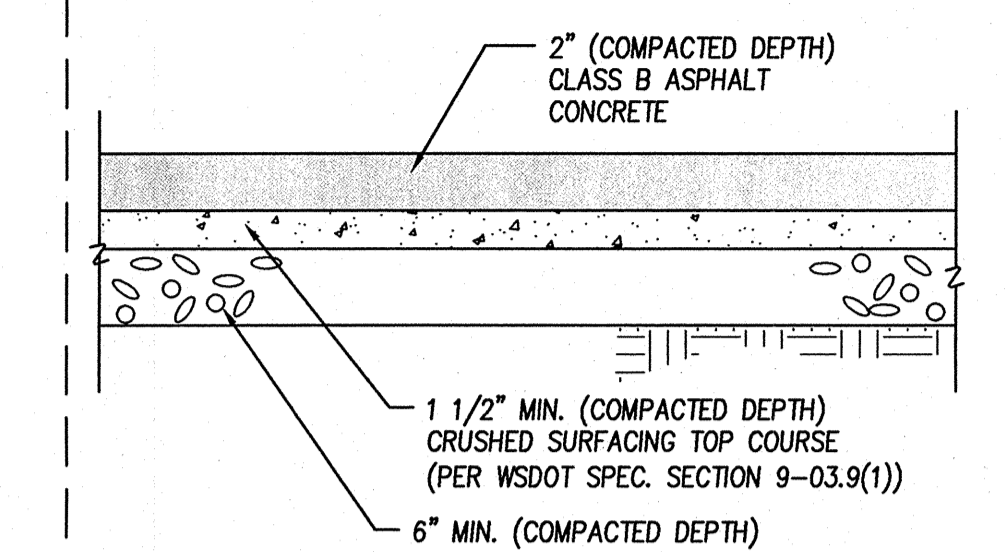
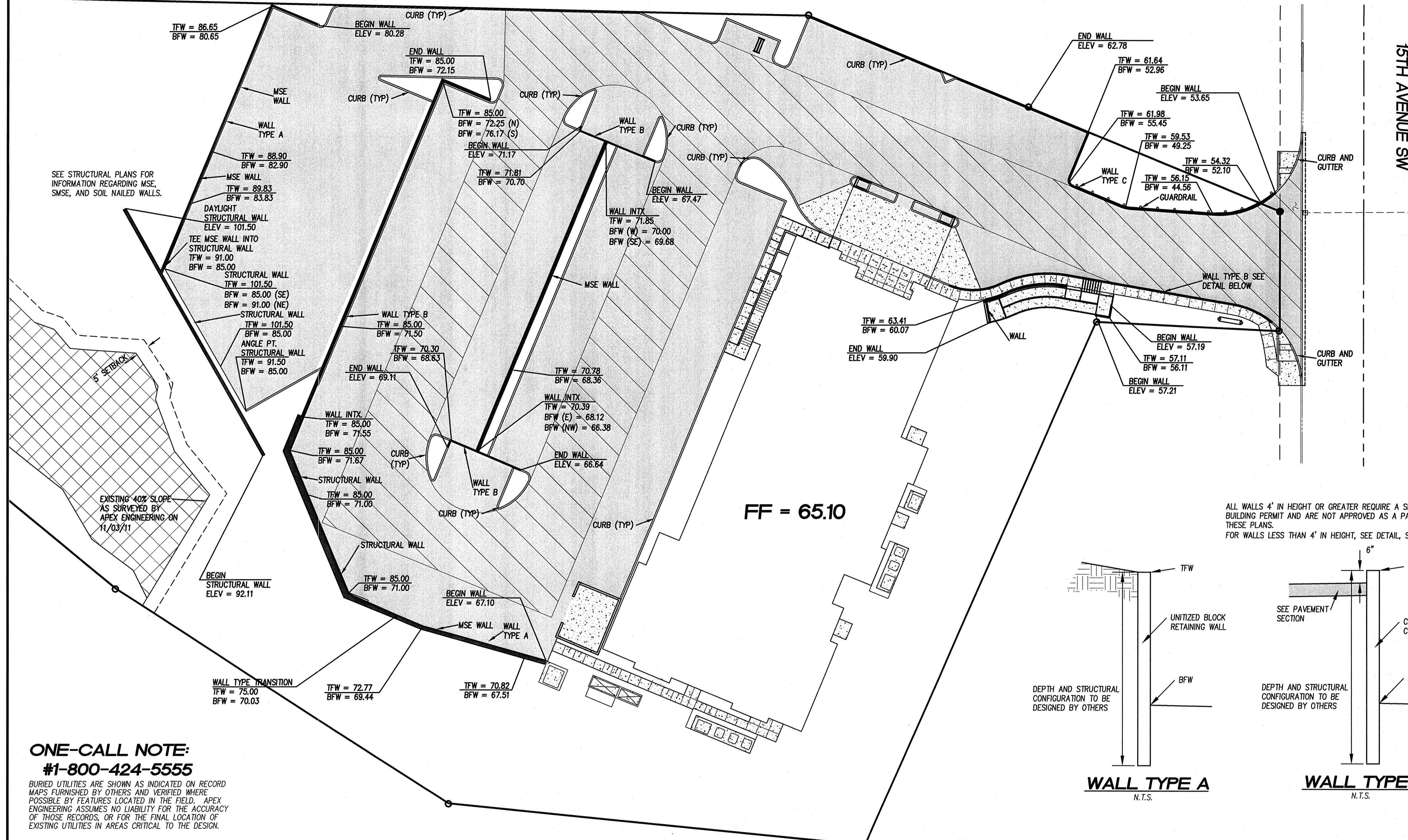
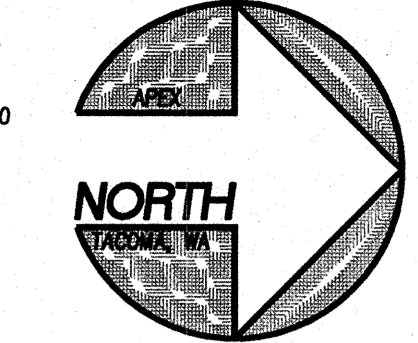
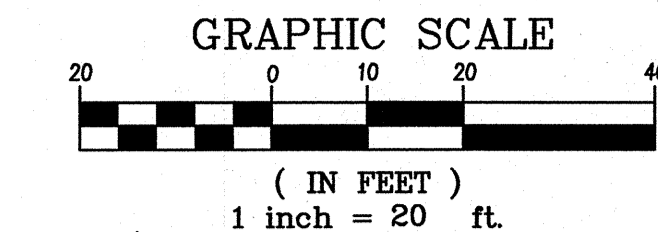
DESIGN F. JACOBS
DRAWN S. JOHNSON
CHECKED
SEC 33 T 20N R 4E
FILE NO 31815WRK
DATE 01-03-11
SCALE AS NOTED

SHEET 4 OF 14
FILE NO 31815

PUYALLUP FAIRFIELD INN

GRADING DETAILS - ASBUILT

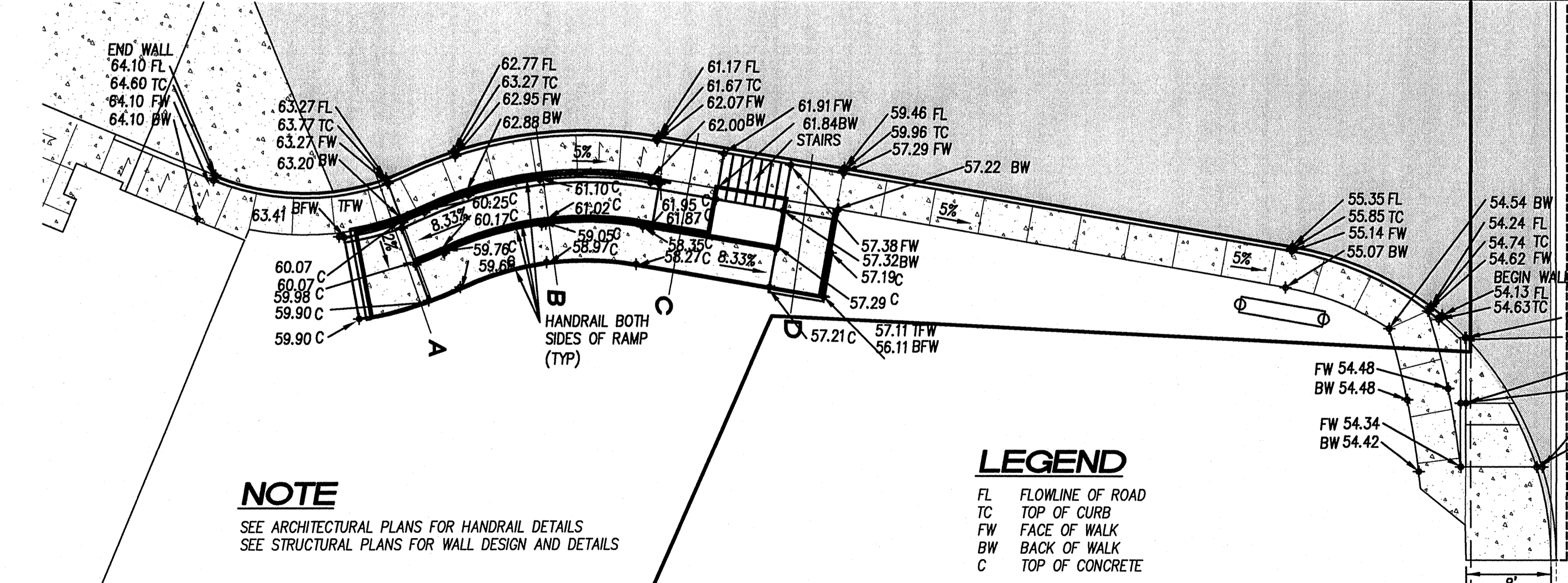
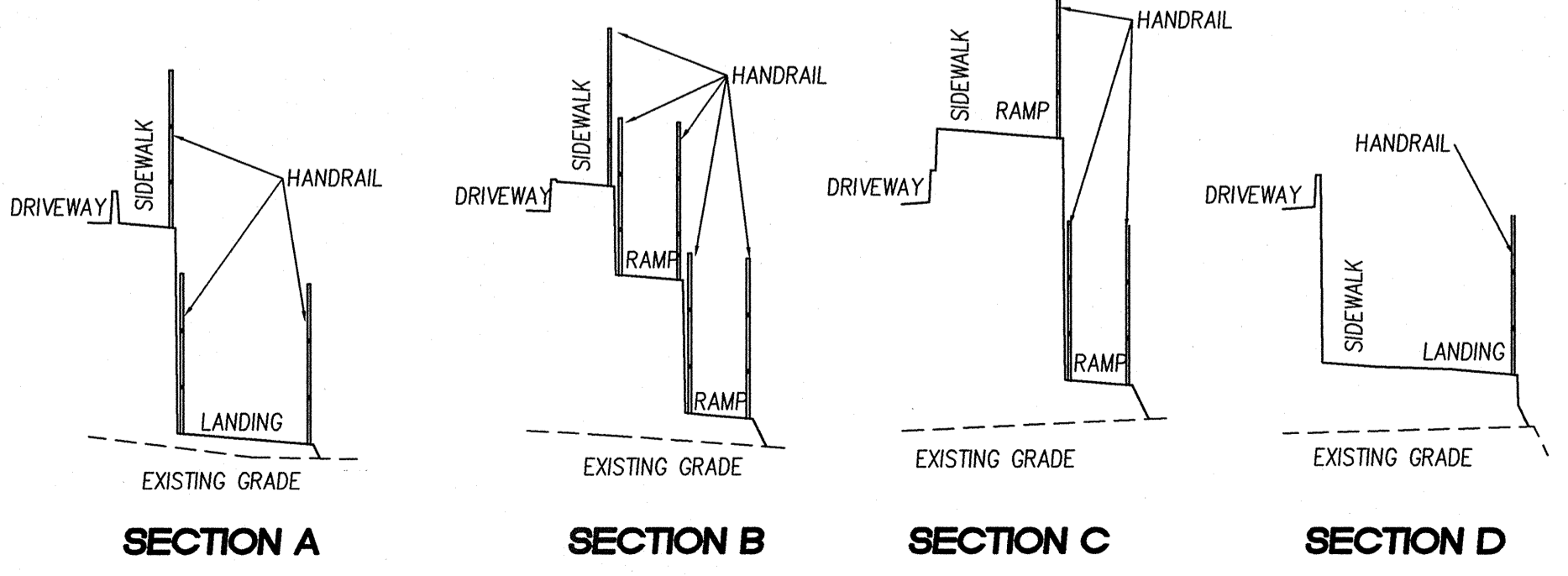
A PORTION OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



ALL WALLS 4' IN HEIGHT OR GREATER REQUIRE A SEPARATE BUILDING PERMIT AND ARE NOT APPROVED AS A PART OF THESE PLANS.
FOR WALLS LESS THAN 4' IN HEIGHT, SEE DETAIL, SHEET 14

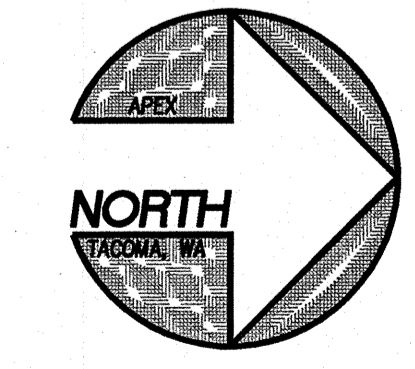
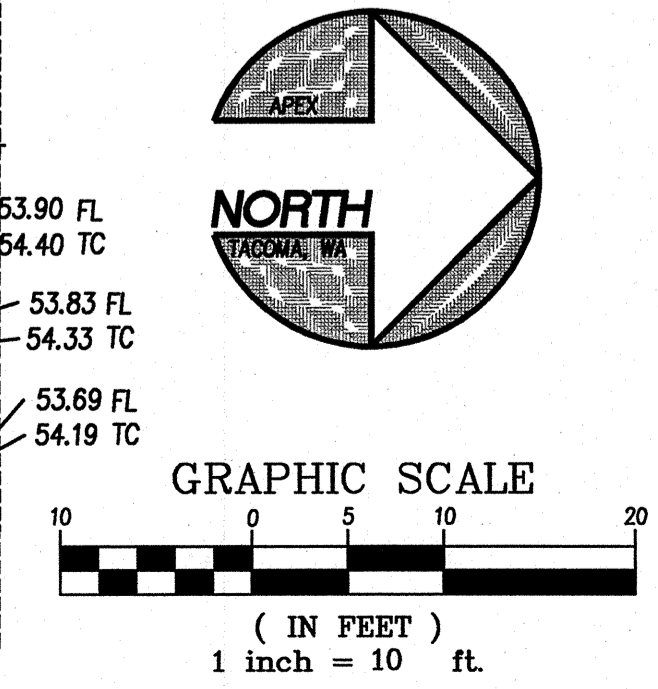
ONE-CALL NOTE:
#1-800-424-5555

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NOTE
SEE ARCHITECTURAL PLANS FOR HANDRAIL DETAILS
SEE STRUCTURAL PLANS FOR WALL DESIGN AND DETAILS

LEGEND
FL FLOWLINE OF ROAD
TC TOP OF CURB
FW FACE OF WALK
BW BACK OF WALK
C TOP OF CONCRETE



NOTE: NOT ALL OF THE RETAINING WALLS WERE CONSTRUCTED AT THE TIME OF THE ASBUILT SURVEY.

APPROVED
BY _____
CITY OF PUYALLUP
ENGINEERING SERVICES
DATE _____

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 CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER

REV NO	REVISION DESCRIPTION	DATE	BY

Apex Engineering
2601 South 35th, Suite 200
Tacoma, Washington 98409-7679
(253) 473-4464 FAX: (253) 473-0598

PUYALLUP FAIRFIELD INN GRADING DETAILS

CLIENT
HOLLANDER INVESTMENTS, INC.
119 NORTH COMMERCIAL, SUITE 165
BELLINGHAM, WA 98225
360-647-916

DATE SEALED 01/03/12

APPROVED

PROJECT MANAGER
MELVIN GARLAND, PLS

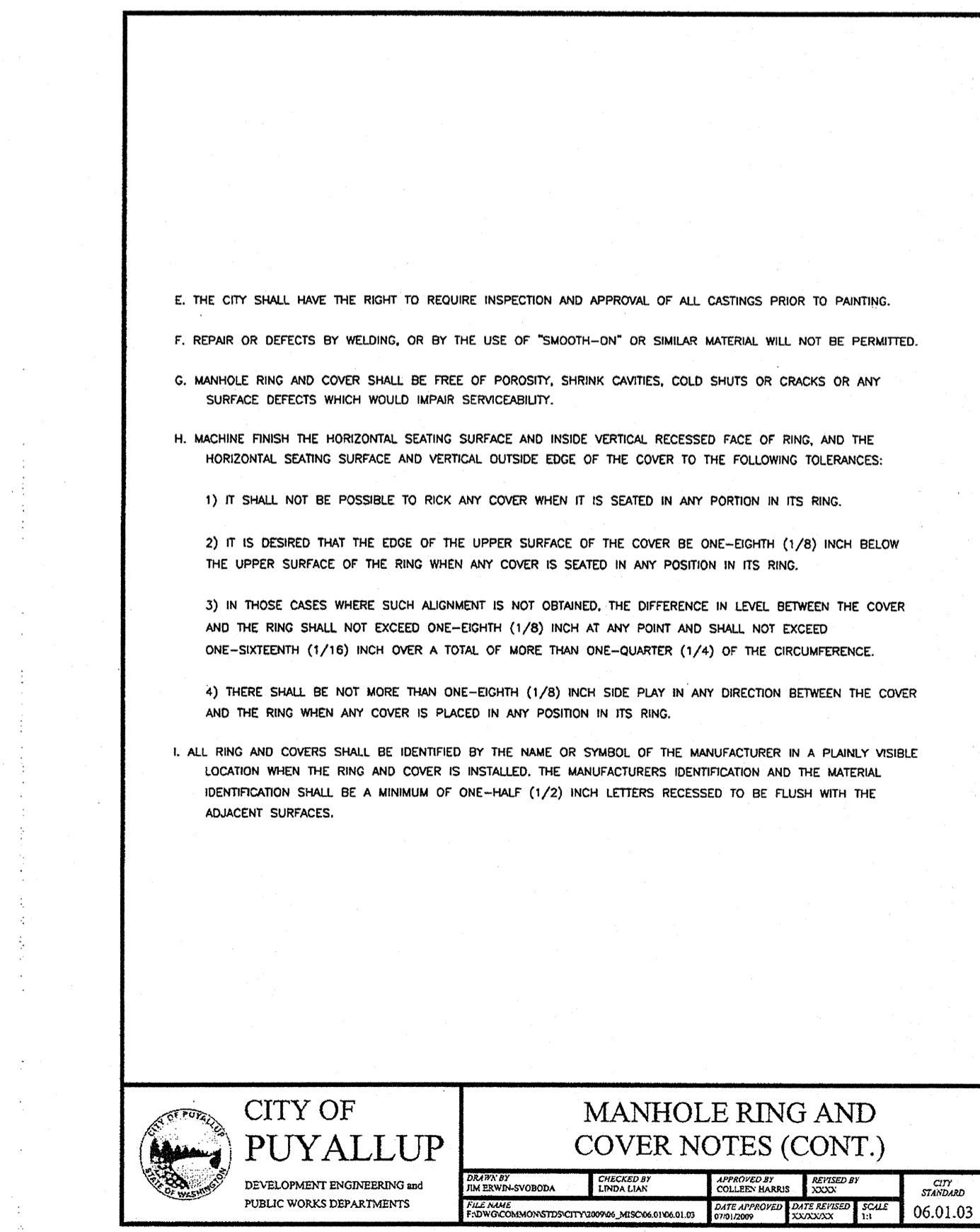
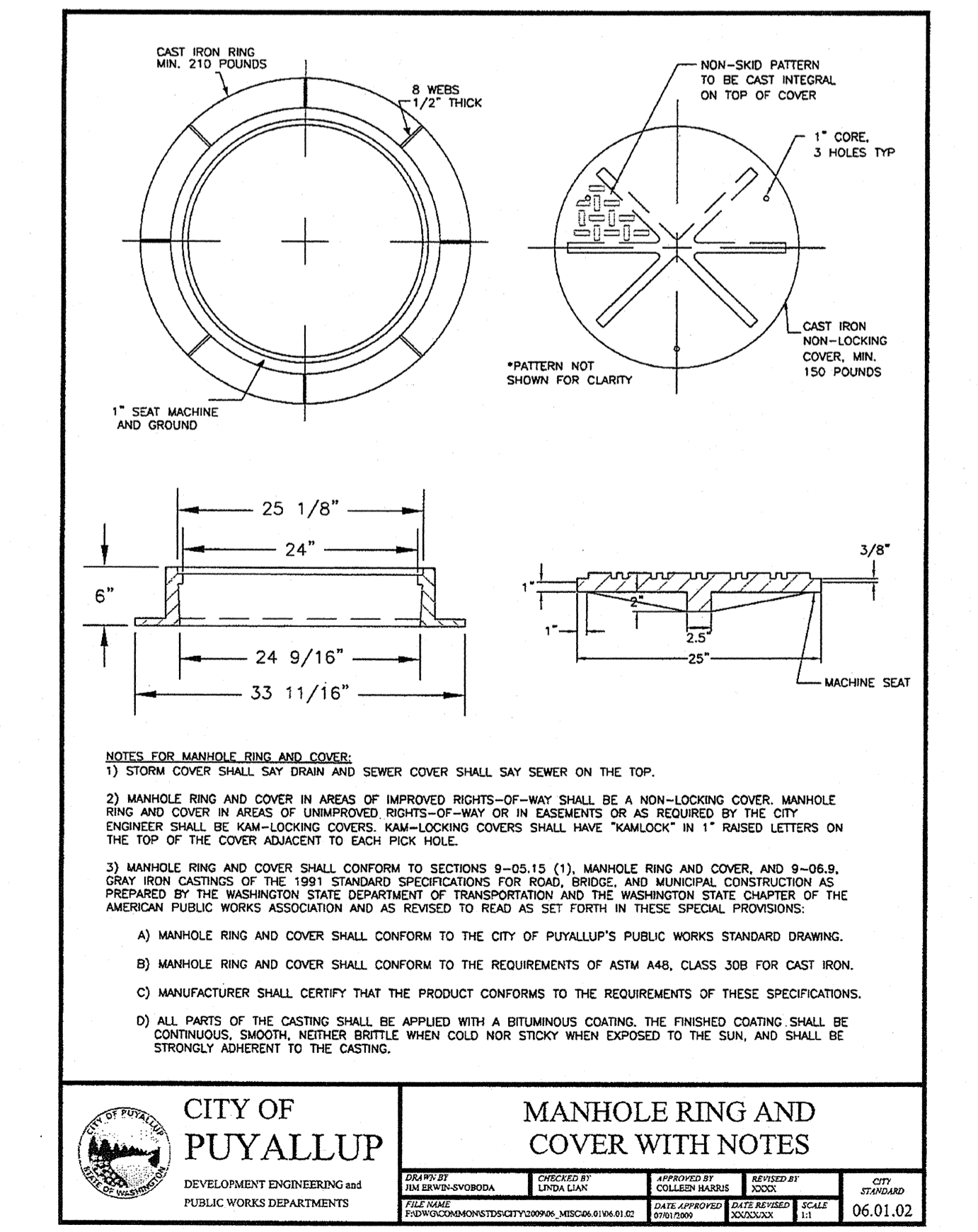
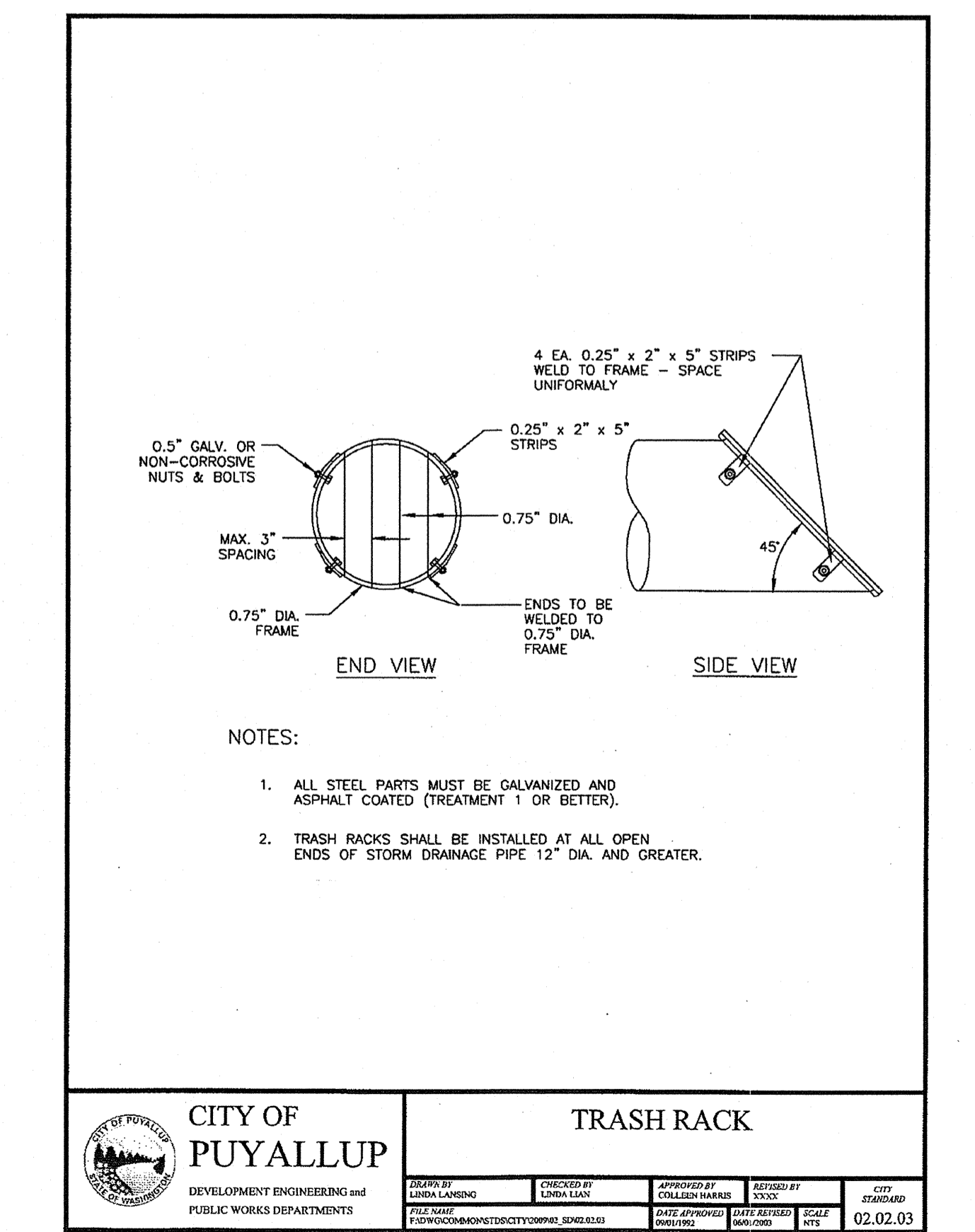
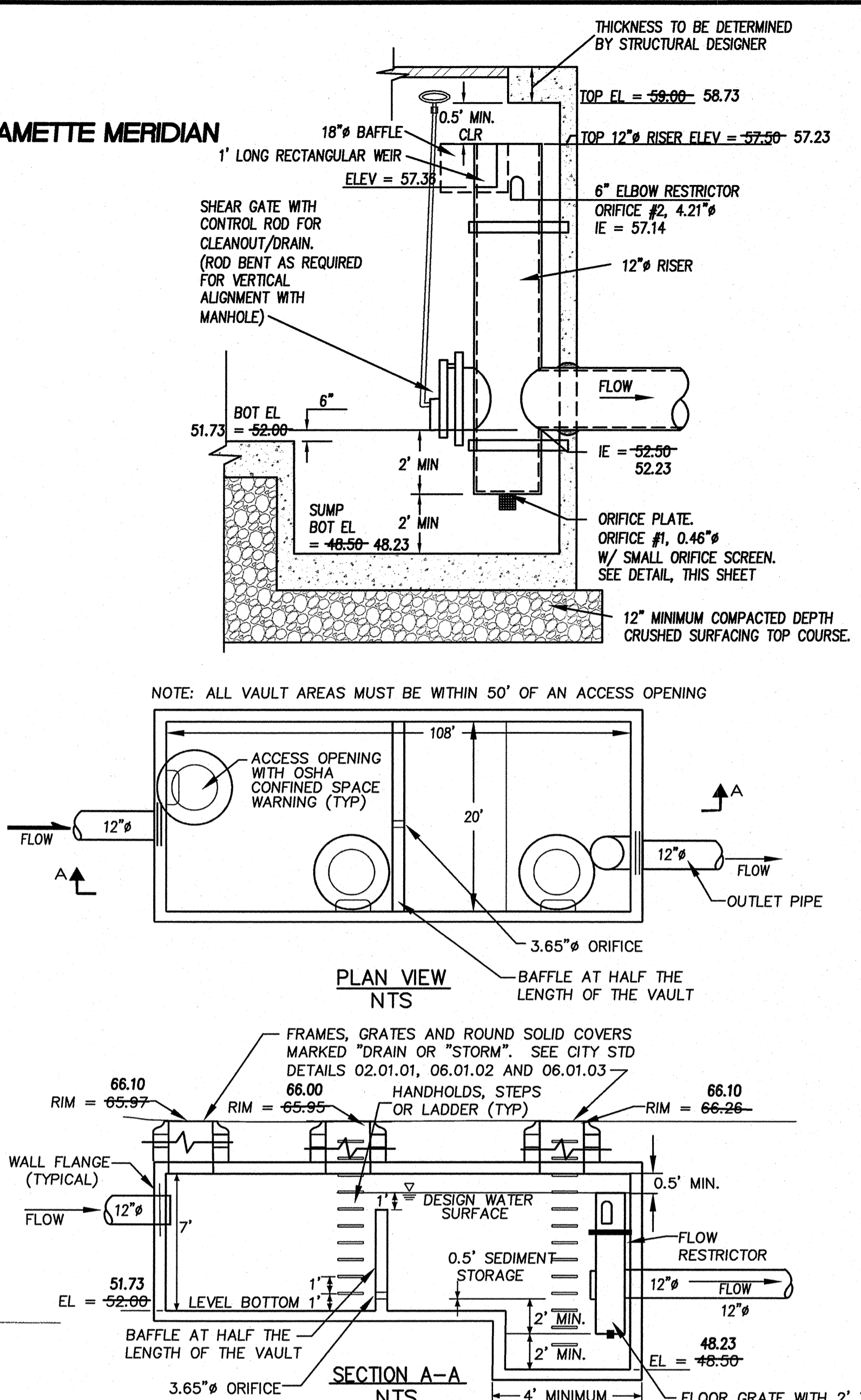
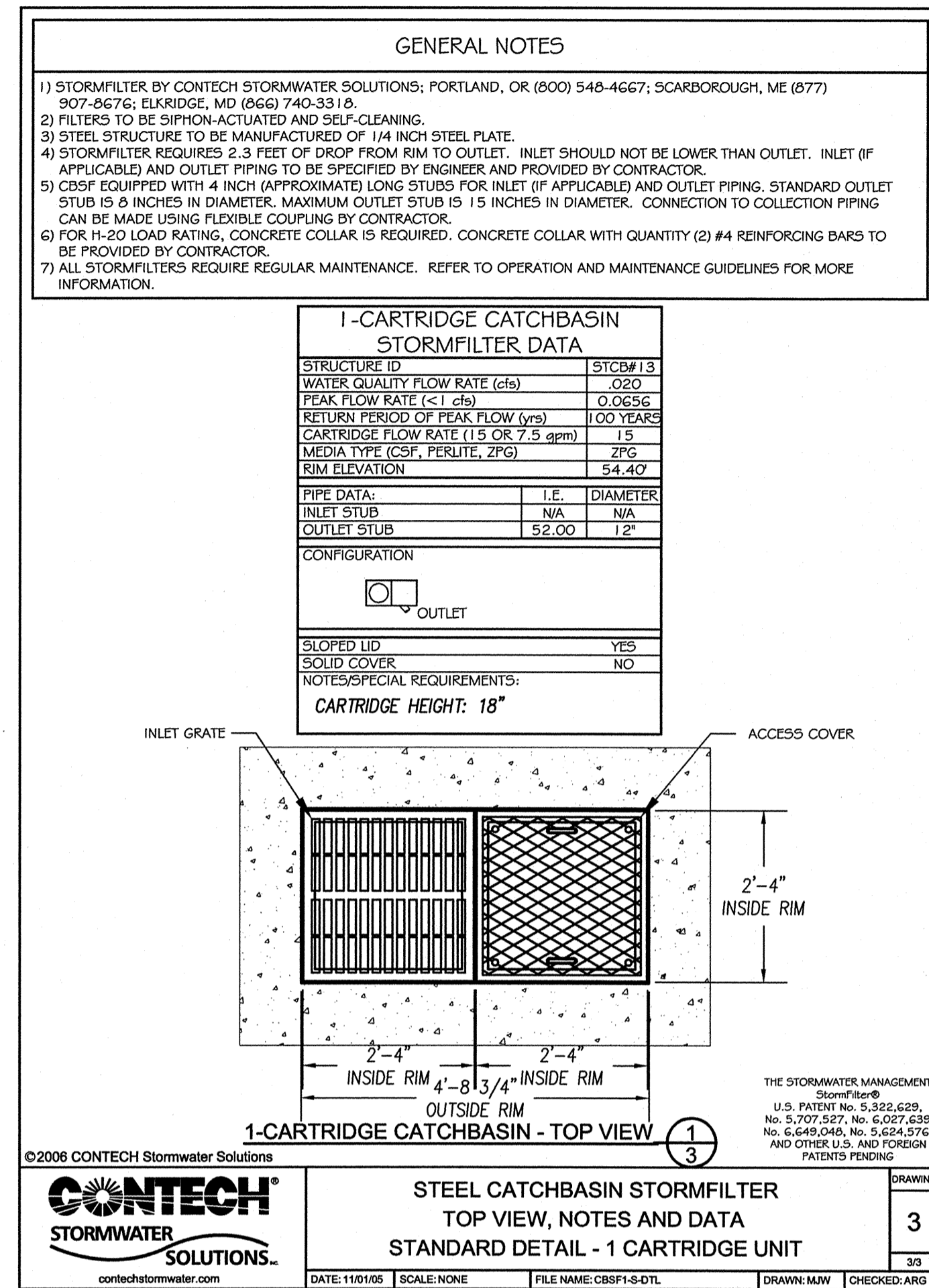
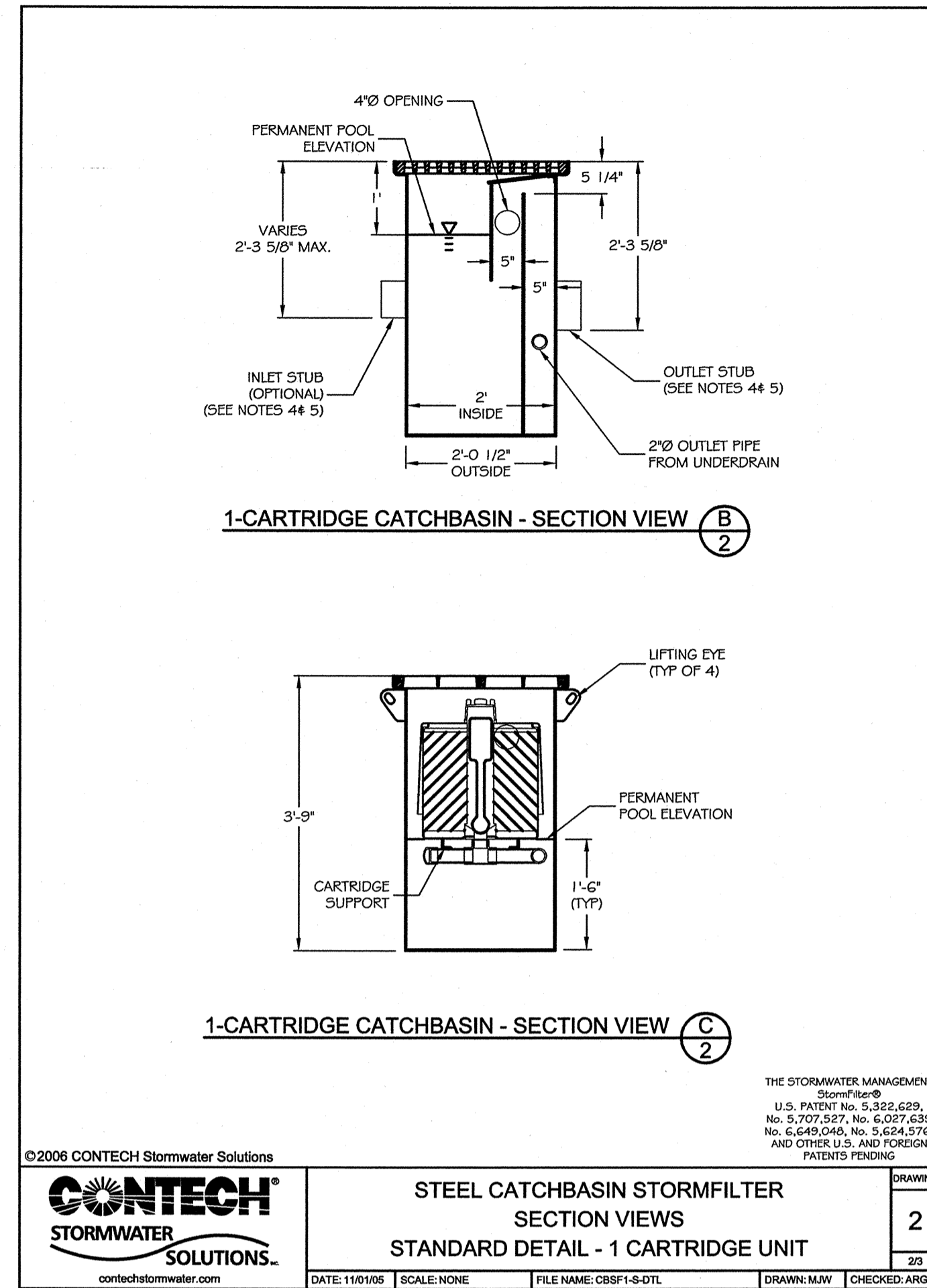
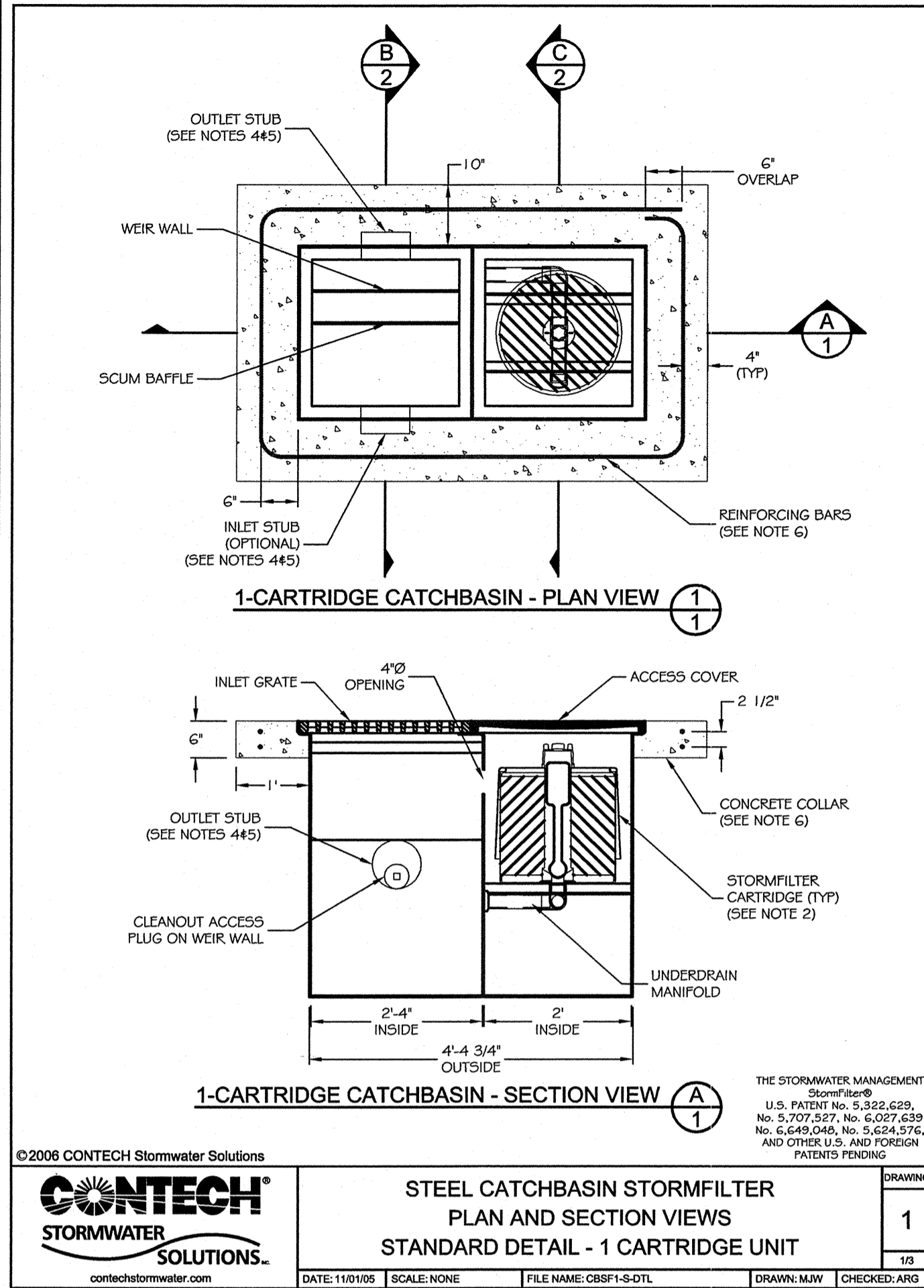
DESIGN **F.JACOBS**
DRAWN **S.JOHNSON**
CHECKED _____
SEC **33** T **20N** R **4E**
FILE NO **31815WK**
DATE **01-03-11**
SCALE **AS NOTED**

SHEET 5 OF 14
FILE NO **31815**

PUYALLUP FAIRFIELD INN

STORM DRAINAGE NOTES AND DETAILS - ASBUILT

A PORTION OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



DATE BY

REVISION DESCRIPTION

REV NO

Apex Engineering
2801 South 35th, Suite 200
Tacoma, Washington 98409-7479
(252) 473-4484 FAX: (252) 473-0589

PUYALLUP FAIRFIELD INN
STORM DRAINAGE NOTES AND DETAILS

CLIENT
HOLLANDER INVESTMENTS, INC.
119 NORTH COMMERCIAL, SUITE 165
BELLINGHAM, WA 98225
360-647-8916

DATE SEALED 01/03/12

APPROVED

BY: _____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE: _____

NOTE:
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FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER

PROJECT MANAGER
MELVIN GARLAND, PLS

DESIGN **F.JACOBS**

DRAWN **S.JOHNSON**

CHECKED _____

SEC 33 T 20N R 4E

FILE NO 318159K

DATE 01-09-11

SCALE AS NOTED

SHEET 8 OF 14

FILE NO 31815

PUYALLUP FAIRFIELD INN

STORM DRAINAGE NOTES AND DETAILS - ASBULT

A PORTION OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN

CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON

MANHOLE RING AND COVER: THE COVER SHALL BE MARKED WITH "STORM" OR "DRAIN" IN 2" RAISED LETTERS. SEE CITY STANDARD DETAIL NO. 505 FOR ADDITIONAL INFORMATION.

NOTES:

1. THE CONSTRUCTION AND INSTALLATION OF STORM SEWER MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF WSDOT SPEC. SECTION 7-05 AND ASTM C 478.
2. THE FACE OF NEAT LINE CUTS IN EXISTING ASPHALT PAVEMENT SHALL BE TACK COATED AND THE TOP OF THE JOINT SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT.
3. PRECAST RISER SECTION OR PRECAST BASE WITH INTERNAL RISER SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS WITH A MINIMUM WALL THICKNESS OF 2". THE SIZE OF THE KNOCKOUT SHALL BE EQUAL TO THE PIPE OUTER DIAMETER PLUS THE MANHOLE WALL THICKNESS. THE MAXIMUM HOLE SIZE IS 36" FOR A 48" MANHOLE, 42" FOR A 54" MANHOLE, 60" FOR A 72" MANHOLE, AND 84" FOR A 96" MANHOLE.
4. A FLEXIBLE GASKETED JOINT SHALL BE INSTALLED WITHIN 12" OF EACH CONNECTION TO A MANHOLE. THE CONNECTION OF CONCRETE OR DUCTILE IRON PIPE TO A MANHOLE SHALL BE GEMENT MORTARED. DUCTILE IRON PIPE SHALL BE SEALED WITH MASTIC AT THE CONNECTION POINT PRIOR TO BEING MORTARED. THE CONNECTION OF PVC PIPE TO A MANHOLE SHALL UTILIZE A MANHOLE COUPLING (SAND COLLAR) WITH A RUBBER GASKET.
5. THE MANHOLE COVER SHALL BE MARKED WITH "STORM" OR "DRAIN" IN 2" RAISED LETTERS. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.03.
6. MANHOLE STEP AND LADDER SHALL CONFORM TO CITY STANDARD DETAILS NO. 06.01.04 AND 06.01.05.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STORM SEWER MANHOLE

DATE: 02.01.05

NOTES:

1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
2. TYPE 1 CATCH BASIN IS USED FOR DEPTHS LESS THAN 5'-0" FROM TOP OF GRATE TO I.E. (PIPE INVERT).
3. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. KNOCKOUTS SHALL BE ON 4 SIDES WITH A MINIMUM DIAMETER OF 20" TO PROVIDE FOR A MINIMUM SUMP DEPTH OF 18".
4. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION SHALL NOT EXCEED 1/2" PER FOOT.
5. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (ASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.
6. CATCH BASIN MARKER WILL BE AFFIXED WITH MANUFACTURER'S EPOXY IN DRY WEATHER, 40 DEGREES OR WARMER. IF CURB EXISTS MARKER IS PLACED ON TOP OF CURB. IF A RAISED EDGE PLACE MARKER ON THE WEDGE. IF NO CURB PLACE ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC.
7. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (ASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.
8. THE APRON SHALL BE 8" IN DEPTH.
9. CATCH BASIN MARKER WILL BE AFFIXED WITH MANUFACTURER'S EPOXY IN DRY WEATHER, 40 DEGREES OR WARMER. IF CURB EXIST MARKER IS PLACED ON TOP OF CURB. IF A RAISED EDGE PLACE MARKER ON THE WEDGE. IF NO CURB PLACE ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN TYPE 1 (AREA DRAIN)

DATE: 02.01.05

NOTES:

1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
2. MAXIMUM GUTTER LINE FLOW LENGTH SHALL BE 300'.
3. TYPE 1 CATCH BASIN IS USED FOR DEPTHS LESS THAN 5'-0" FROM TOP OF GRATE TO I.E. (PIPE INVERT).
4. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. KNOCKOUTS SHALL BE ON 4 SIDES WITH A MINIMUM DIAMETER OF 20" TO PROVIDE FOR A MINIMUM SUMP DEPTH OF 18".
5. REINFORCING BARS SHALL BE CUT OR BENT AS REQUIRED TO CLEAR CUTOUTS.
6. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION SHALL NOT EXCEED 1/2" PER FOOT.
7. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (ASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.
8. THE APRON SHALL BE 8" IN DEPTH.
9. CATCH BASIN MARKER WILL BE AFFIXED WITH MANUFACTURER'S EPOXY IN DRY WEATHER, 40 DEGREES OR WARMER. IF CURB EXIST MARKER IS PLACED ON TOP OF CURB. IF A RAISED EDGE PLACE MARKER ON THE WEDGE. IF NO CURB PLACE ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN TYPE 1 (GUTTER DRAIN)

DATE: 02.01.05

NOTES:

1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
2. MAXIMUM GUTTER LINE FLOW LENGTH SHALL BE 300'.
3. TYPE 1 CATCH BASIN IS USED FOR DEPTHS GREATER THAN 5'-0" FROM TOP OF GRATE TO I.E. (PIPE INVERT).
4. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. KNOCKOUT OR CUTOUT HOLE SIZE SHALL EQUAL THE PIPE OUTER DIAMETER PLUS THE MANHOLE WALL THICKNESS.
5. SEE CITY STANDARD DETAIL NO. 02.01.01 FOR ADDITIONAL INFORMATION REGARDING INSTALLATION OF MANHOLE SECTION.
6. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (ASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.
7. CATCH BASIN MARKER WILL BE AFFIXED WITH MANUFACTURER'S EPOXY IN DRY WEATHER, 40 DEGREES OR WARMER. IF CURB EXIST MARKER IS PLACED ON TOP OF CURB. IF A RAISED EDGE PLACE MARKER ON THE WEDGE. IF NO CURB PLACE ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN TYPE II

DATE: 02.01.04

NOTES:

1. MANHOLE SHALL CONFORM TO SECTION 6-05.15 "WELL CARTRIDGE" OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND AIRPORT CONSTRUCTION. JOINTS SHALL BE SEALED WITH MASTIC.
2. THE MAKE OF THE MANHOLE AND SECTION OF PIPE SHALL BE INDICATED BY ENGINEER EITHER ON (FOR DUCTILE IRON OR CS (FOR CAST STEEL)) NEAR THE NAME OF THE MANUFACTURER.
3. MANHOLES SHALL HAVE A +/- 1/16" TOLERANCE, EXCEPT AS NOTED.
4. WELDING SHALL BE 1/8" MIN.
5. WELDING IS NOT PERMITTED.
6. AS AN ALTERNATE, 8 PADS 1 1/2" x 3/4" x 1/8", INTERNALLY CAST WITH THE GRATE, MAY BE USED.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN FRAME AND GRATE/VANED GRATE

DATE: 02.01.05

GENERAL NOTES:

- 1) STORMFILTER BY CONTECH STORMWATER SOLUTIONS; PORTLAND, OR (800) 548-4667; SCARBOROUGH, ME (877) 907-8676; LINTHICUM, MD (866) 740-3314.
- 2) FILTER CARTRIDGE(S) TO BE SIPHON-ACTUATED AND SELF-CLEANING. STANDARD DETAIL SHOWS MAXIMUM NUMBER OF CARTRIDGES. ACTUAL NUMBER REQUIRED TO BE SPECIFIED ON SITE PLANS OR IN DATA TABLE BELOW.
- 3) PRECAST MANHOLE STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478. DETAIL REFLECTS DESIGN INTENT ONLY. ACTUAL DIMENSIONS AND CONFIGURATION OF STRUCTURE WILL BE SHOWN ON PRODUCTION SHOP DRAWING.
- 4) STRUCTURE AND ACCESS COVERS TO MEET ASHTO H-20 LOAD RATING.
- 5) FOR LOW DROP CARTRIDGE, DROP REQUIRED IS 1.8'. FOR 18" CARTRIDGE, DROP REQUIRED IS 2.3'. FOR 27" CARTRIDGE DROP REQUIRED IS 3.05'. MINIMUM ANGLE BETWEEN INLET AND OUTLET IS 45°.
- 6) INLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR. PRECAST MANHOLE STORMFILTER EQUIPPED WITH A DUAL DIAMETER HOPE OUTLET STUB AND SAND COLLAR. EIGHT INCH DIAMETER OUTLET SECTION MAY BE SEPARATED FROM OUTLET STUB AT MOLDED-IN CUT LINE TO ACCOMMODATE A 12 INCH OUTLET PIPE. CONNECTION TO DOWNSTREAM PIPING TO BE MADE USING A FLEXIBLE COUPLING OR ECCENTRIC REDUCER, AS REQUIRED. COUPLING BY FERROCO OR EQUAL AND PROVIDED BY CONTRACTOR.
- 7) PROVIDE MINIMUM CLEARANCE FOR MAINTENANCE ACCESS. IF A SHALLOWER SYSTEM IS REQUIRED, CONTACT CONTECH STORMWATER SOLUTIONS FOR OTHER OPTIONS.
- 8) ANTI-FLOTTATION BALLAST TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR, IF REQUIRED. BALLAST TO BE SET AROUND THE PERIPHERY OF THE STRUCTURE.
- 9) ALL STORMFILTERS REQUIRE REGULAR MAINTENANCE. REFER TO OPERATION AND MAINTENANCE GUIDELINES FOR MORE INFORMATION.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

PRECAST 72" MANHOLE STORMFILTER PLAN AND SECTION VIEWS STANDARD DETAIL

DATE: 08/26/05

PRECAST MANHOLE STORMFILTER DATA

STRUCTURE ID	STCMB3
WATER QUALITY FLOW RATE (cfs)	0.019
PEAK FLOW RATE (<1.5 cfs)	0.4334
RETURN PERIOD OF PEAK FLOW (yrs)	100
# OF CARTRIDGES REQUIRED	6
CARTRIDGE FLOW RATE	7.5
MEDIA TYPE (SIF, PERLITE, ZPIC)	ZPIC
RIM ELEVATION	67.01

MANHOLE STORMFILTER - OUTLET DETAIL

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

PRECAST 72" MANHOLE STORMFILTER TOP AND SECTION VIEWS, NOTES AND DATA STANDARD DETAIL

DATE: 08/26/05

REV NO	REVISION DESCRIPTION	DATE BY

Apex Engineering
2601 South 35th, Suite 200
Tacoma, Washington 98409-7479
(253) 473-4464 FAX: (253) 473-0388

PUYALLUP FAIRFIELD INN
STORM DRAINAGE NOTES AND DETAILS

HOLLANDER INVESTMENTS, INC.
119 NORTH COMMERCIAL, SUITE 165
BELLINGHAM, WA 98225
360-647-9196

CLIENT

DATE SEALED 2/10/12



ONE-CALL NOTE:
#1-800-424-5555

BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORD MAPS FURNISHED BY OTHERS AND VERIFIED WHERE POSSIBLE BY FEATURES LOCATED IN THE FIELD. APEX ENGINEERING ASSUMES NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS, OR FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO THE DESIGN.

APPROVED

BY: CITY OF PUYALLUP ENGINEERING SERVICES

DATE: _____

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 CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER

PROJECT MANAGER
MELVIN GARLAND, PLS

DESIGN F.JACOBS
DRAWN S.JOHNSON
CHECKED _____
SEC 33 T 20N R 4E
FILE NO 31815WRK
DATE 01-03-11
SCALE AS NOTED

SHEET 9 OF 14
FILE NO 31815

PUYALLUP FAIRFIELD INN

SEWER AND WATER PLAN - ASBUILT

A PORTION OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON

WATER SYSTEM 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 THE ENGINEERING DIVISION TO SCHEDULE THE MEETING (253-841-5587). THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN 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"), OR AS DIRECTED BY FRUITLAND MUTUAL WATER COMPANY, VALLEY WATER OR TACOMA CITY WATER WHEN SERVED BY ONE OF THOSE PURVEYORS.
- 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 ENGINEER. THE CITY ENGINEER, AND FRUITLAND MUTUAL WATER, VALLEY WATER OR TACOMA CITY WATER WHEN SERVED BY ONE OF THOSE PURVEYORS, 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 (811) AT LEAST TWO WORKING DAYS 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.
- BIOLOGICAL TEST SAMPLES WILL BE TAKEN BY THE CITY (OR FRUITLAND WATER, VALLEY WATER OR TACOMA CITY WATER WHEN SERVED BY ONE OF THOSE PURVEYORS) AND PAID FOR BY THE CONTRACTOR.
- WATER MAINS SHALL HAVE A MINIMUM COVER OF 42 INCHES IN IMPROVED RIGHT-OF-WAY AND A MINIMUM OF 48 INCHES IN UNIMPROVED RIGHT-OF-WAY AND EASEMENTS.
- PIPE FOR WATER MAINS SHALL BE DUCTILE IRON CONFORMING TO SECTION 7-09 OF THE STANDARD SPECIFICATIONS AND AS OF JULY 1, 1993, SHALL BE THICKNESS CLASS 52 OR GREATER, WITH TYTON OR APPROVED EQUAL JOINTS. PIPE SHALL BE CEMENT LINED IN ACCORDANCE WITH A.S.A. SPECIFICATION A 214-1984.
- CONNECTIONS TO EXISTING WATER MAINS SHALL BE WET TAPS THROUGH A TAPPING "TEE" AND TAPPING VALVE AND SHALL BE MADE BY A CITY APPROVED CONTRACTOR. THE TAPPING SLEEVE SHALL BE EPOXY COATED OR DUCTILE IRON. STAINLESS SLEEVES SHALL ONLY BE USED ON AC PIPE. THE CITY (OR FRUITLAND WATER, VALLEY WATER OR TACOMA CITY WATER WHEN SERVED BY ONE OF THOSE PURVEYORS) SHALL APPROVE THE TIME AND LOCATION FOR THESE CONNECTIONS.
- ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI IN ACCORDANCE WITH CITY STANDARD DETAIL 03.01.01.
- FIRE HYDRANTS SHALL BE INSTALLED CONFORMING TO CITY STANDARD DETAIL 03.05.01.
- VALVE MARKER POSTS SHALL BE INSTALLED WHERE VALVE BOXES ARE HIDDEN FROM VIEW OR IN UNPAVED AREAS. THE INSTALLATION SHALL CONFORM TO CITY STANDARD DETAIL 03.01.02.
- RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR 8-INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN 8 INCHES.
- PIPE FITTING FOR WATER MAINS SHALL BE DUCTILE IRON AND SHALL BE MECHANICAL JOINT CONFORMING TO AWWA SPECIFICATION C111-72.
- WATER MAIN PIPE AND SERVICE CONNECTIONS SHALL BE 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- WHERE A WATER MAIN CROSSES NORTHWEST PIPELINE GASMAIN, THE WATER LINE SHALL BE CASED WITH PVC PIPE A MINIMUM OF 10 FEET BEYOND EACH SIDE OF THE GAS LINE EASEMENT. CONTACT NORTHWEST PIPELINE BEFORE THE CROSSING IS MADE.
- TRENCHING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL 06.01.01. 20. ALL COMMERCIAL DEVELOPMENTS, IRRIGATION SYSTEMS, AND MULTI-FAMILY WATER SERVICE CONNECTIONS SHALL BE PROTECTED BY A DOUBLE CHECK VALVE ASSEMBLY OR A REDUCED PRESSURE BACKFLOW ASSEMBLY AS DIRECTED BY THE CITY (OR FRUITLAND MUTUAL WATER COMPANY, VALLEY WATER OR TACOMA CITY WATER WHEN SERVED BY ONE OF THOSE PURVEYORS) CONFORMING TO CITY STANDARD DETAILS.

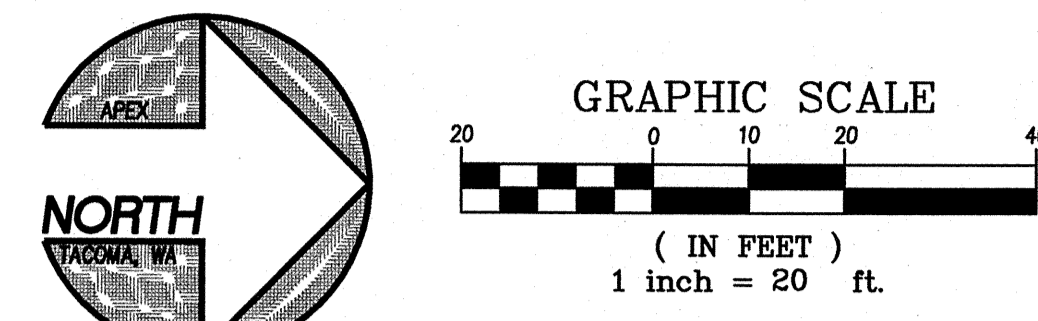
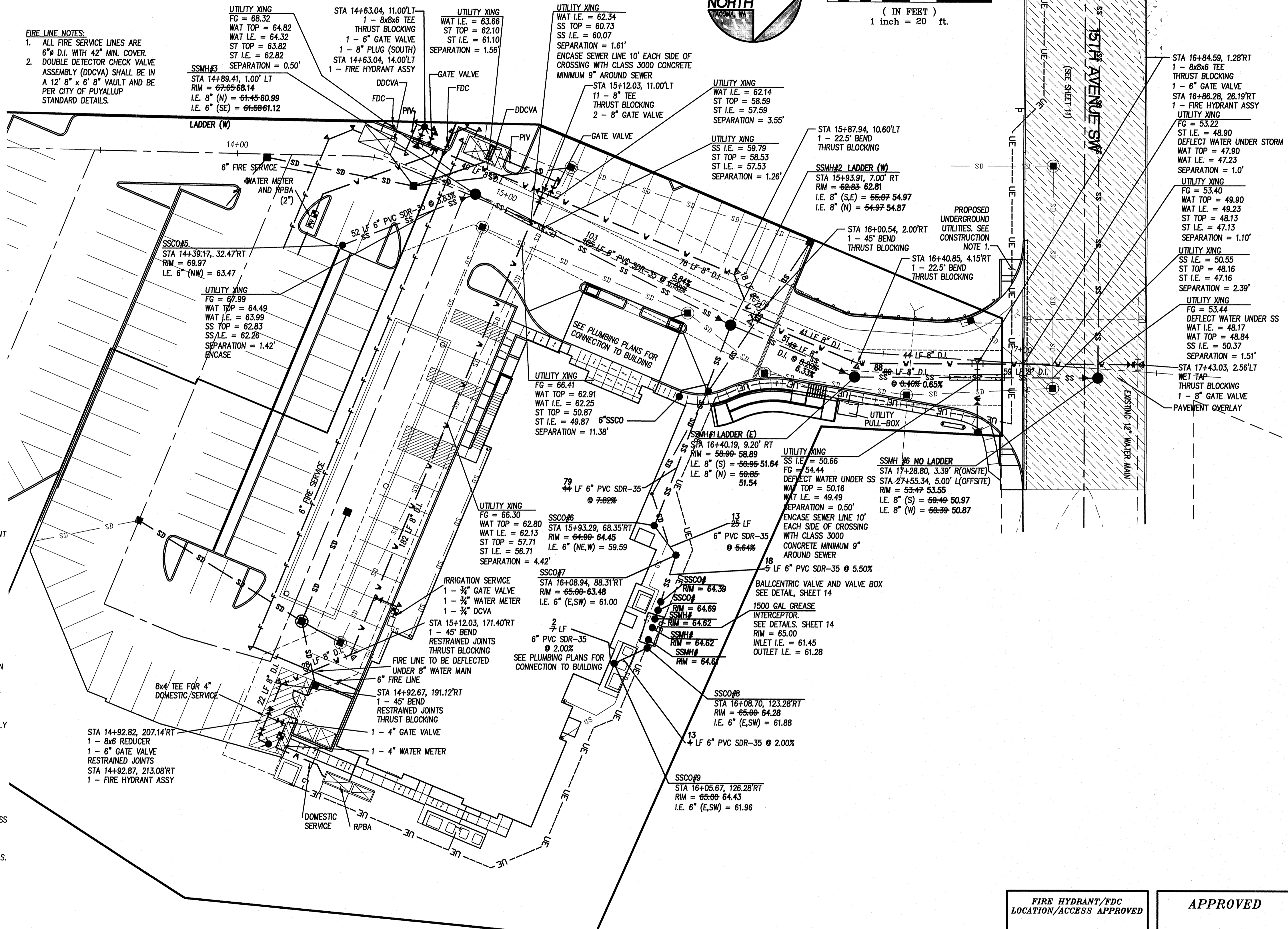
SANITARY SEWER NOTES:

- 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 THE ENGINEERING DIVISION AT THE CITY OF PUYALLUP TO SCHEDULE THE MEETING (253-841-5587). THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN 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 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 (811) AT LEAST TWO WORKING DAYS 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.
- MINIMUM GRADE ON ALL 4 INCH RESIDENTIAL SIDE SEWERS SHALL BE 2 PERCENT AND 6 INCH COMMERCIAL SIDE SEWERS SHALL BE 1 PERCENT; MAXIMUM SHALL BE 8 PERCENT.
- SIDE SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 04.03.01 AND 04.03.02. SIDE SEWER INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (WISHA).
- ALL SEWER PIPE SHALL BE PVC SEWER PIPE CONFORMING TO ASTM D-3034, SDR35 FOR PIPE SIZES 15-INCH AND SMALLER AND ASTM F189 FOR PIPE SIZES 18- TO 27-INCH, DUCTILE IRON PIPE CLASS 51 OR GREATER, UNLESS OTHERWISE NOTED. TRENCHING, BEDDING, AND BACKFILL SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAILS. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
- SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL CONFORM TO CITY STANDARD DETAIL 06.01.01. COVERS SHALL BE MARKED "SEWER," WITH 2-INCH RAISED LETTERS. MINIMUM WEIGHT OF THE FRAME SHALL BE 210 POUNDS. MINIMUM WEIGHT OF THE COVER SHALL BE 150 POUNDS.
- SANITARY SEWER MANHOLES SHALL CONFORM TO CITY STANDARD DETAILS 04.01.01 AND 04.01.02. ALL MANHOLES SHALL BE CHANNELLED FOR FUTURE LINES AS SPECIFIED ON THESE PLANS. MANHOLE STEPS AND LADDER SHALL CONFORM TO CITY STANDARD DETAIL 06.01.04.
- SANITARY SEWER PIPE AND SIDE SEWERS SHALL BE 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- NO SIDE SEWERS SHALL BE CONNECTED TO ANY HOUSE OR BUILDING UNTIL ALL MANHOLES ARE ADJUSTED TO THE FINISHED GRADE OF THE COMPLETED ASPHALT ROADWAY AND THE ASPHALT PATCH AND SEAL AROUND THE RING ARE ACCEPTED.
- ALL PUBLIC SANITARY SEWER MAINS SHALL BE VIDEO INSPECTED PRIOR TO ACCEPTANCE BY THE CITY OF PUYALLUP'S WATER COLLECTION DIVISION.
- AFTER ALL OTHER UTILITIES ARE INSTALLED AND PRIOR TO ASPHALT WORK, ALL SANITARY PIPES SHALL PASS A LOW PRESSURE AIR TEST IN ACCORDANCE WITH SECTION 7-17 OF THE STANDARD SPECIFICATIONS. PRODUCTS USED TO SEAL THE INSIDE OF THE PIPE ARE NOT TO BE USED TO OBTAIN THE AIR TEST.
- FOR COMMERCIAL DEVELOPMENTS IN WHICH SOURCES OF GREASE AND/OR OILS MAY BE INTRODUCED TO THE CITY SANITARY SEWER SYSTEM, A CITY-APPROVED GREASE INTERCEPTOR SHALL BE INSTALLED DOWNSTREAM FROM THE SOURCE.
- ALL SANITARY SEWER MAINS SHALL BE MANDRELLED.

CONSTRUCTION NOTES:

- PROPOSED UNDERGROUND UTILITIES TO BE LOCATED BY THE APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE UTILITY LOCATIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONFLICTS.

FIRE LINE NOTES:
1. ALL FIRE SERVICE LINES ARE 6" D.I. WITH 42" MIN. COVER.
2. DOUBLE DETECTOR CHECK VALVE ASSEMBLY (DDCVA) SHALL BE IN A 12' 8" x 6' 8" VAULT AND BE PER CITY OF PUYALLUP STANDARD DETAILS.



REV. NO.	REVISION DESCRIPTION	DATE BY

Apex Engineering
2601 South 35th, Suite 200
Tacoma, Washington 98409-7479
(253) 473-4484 FAX (253) 473-0389

PUYALLUP FAIRFIELD INN
SEWER AND WATER PLAN

HOLLANDER INVESTMENTS, INC.
119 NORTH COMMERCIAL, SUITE 165
BELLINGHAM, WA 98225
360-647-9916

TITLE CLIENT

DATE SEALED 2/16/12

PROJECT MANAGER
MELVIN GARLAND, PLS

DESIGN F. JACOBS
DRAWN S. JOHNSON
CHECKED
SEC 33 T 20N R 4E
FILE NO 31815WPK
DATE 01-03-11
SCALE AS NOTED

SHEET 10 OF 14
FILE NO 31815

FIRE HYDRANT/FDC LOCATION/ACCESS APPROVED

BY CITY OF PUYALLUP
FIRE CODE OFFICIAL

DATE

APPROVED

BY CITY OF PUYALLUP
ENGINEERING SERVICES

DATE

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 CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE FIRE CODE OFFICIAL.

ONE-CALL NOTE:
#1-800-424-5555

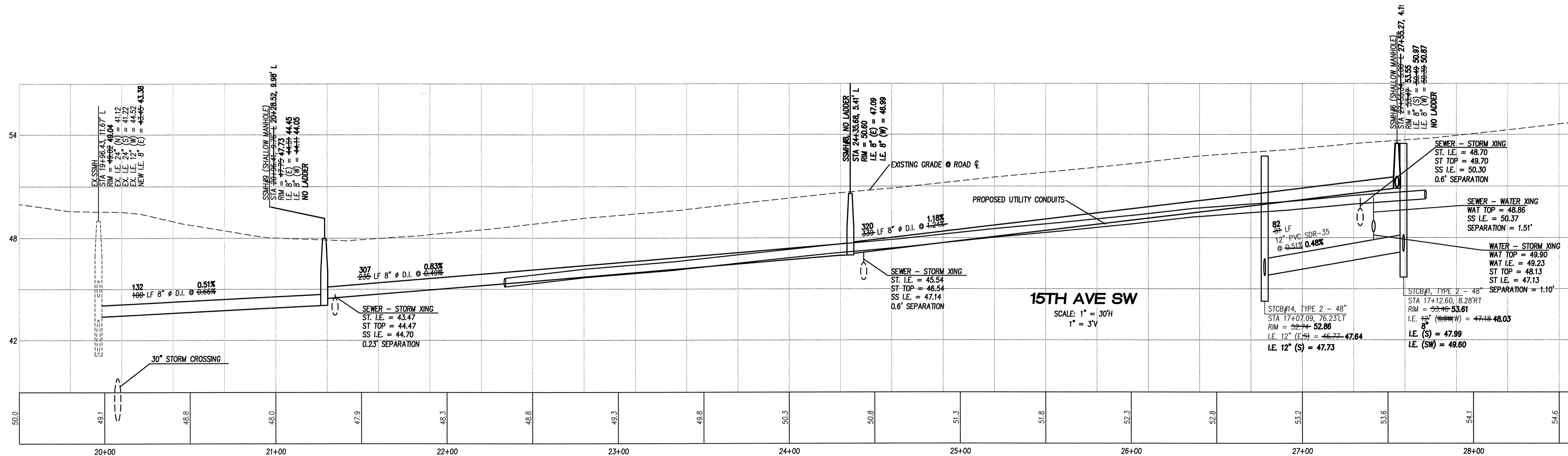
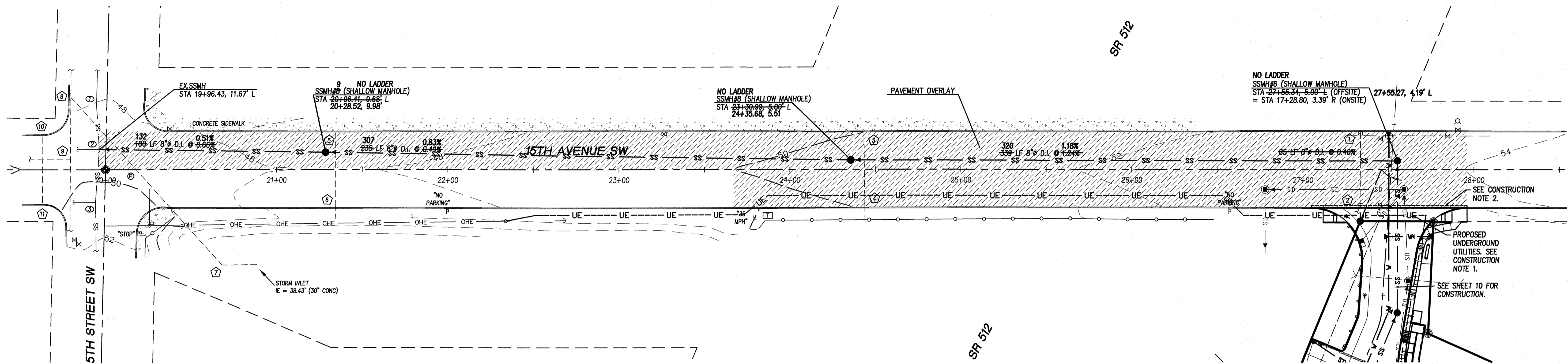
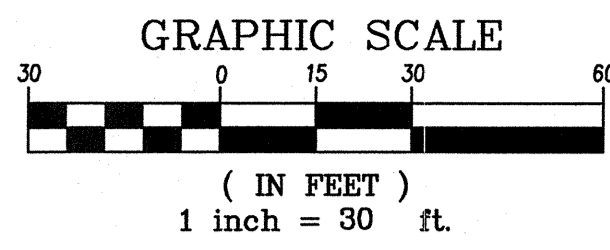
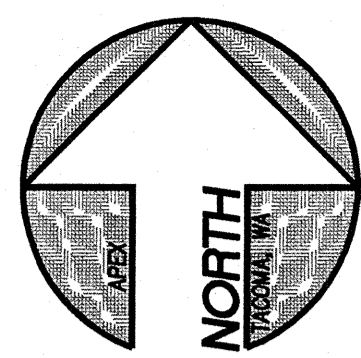
BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORD MAPS FURNISHED BY OTHERS AND VERIFIED WHERE POSSIBLE BY FEATURES LOCATED IN THE FIELD. APEX ENGINEERING ASSUMES NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS, OR FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO THE DESIGN.

PUYALLUP FAIRFIELD INN

OFFSITE SEWER PLAN AND PROFILE - ASBUILT

A PORTION OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN

CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



EXISTING SANITARY SEWER STRUCTURE TABLE

- ① SANITARY MANHOLE #5880
RIM = 48.08'
IE = 40.28' (24" PVC-N)
IE = 40.38' (24" PVC-S)
LADDER EAST
- ② SANITARY MANHOLE #5591
RIM = 49.02'
IE = 41.12' (24" PVC-N)
IE = 41.22' (24" PVC-S)
IE = 44.52' (12" PVC-W)
LADDER EAST
- ③ SANITARY MANHOLE #5593
RIM = 50.42'
IE = 42.62' (24" PVC-N)
IE = 42.72' (24" PVC-S)
IE = 44.32' (12" PVC-W)
LADDER SW

EXISTING STORM STRUCTURE TABLE

- ① STORM CATCH BASIN
RIM = 52.60'
IE = 48.75' (12" CMP-S)
- ② STORM CATCH BASIN
RIM = 53.02'
IE = 48.62' (12" CMP-N&S)
- ③ STORM CATCH BASIN
RIM = 49.91'
IE = 45.61' (12" CONC-S)
- ④ STORM CATCH BASIN
RIM = 50.12'
IE = 45.42' (12" CONC-N)
IE = 45.22' (12" CONC-S)
- ⑤ STORM CATCH BASIN
RIM = 47.08'
IE = 43.48' (12" CONC-S)
- ⑥ STORM CATCH BASIN
RIM = 47.20'
IE = 42.70' (12" CONC-N&S)
- ⑦ STORM MANHOLE
RIM = 43.68'
IE = 38.23' (30" CONC-F)
IE = 38.03' (30" CONC-W)
LADDER SW
- ⑧ STORM CATCH BASIN-TYPE II
RIM = 47.78'
IE = 36.38' (48" CONC-N)
IE = 36.98' (30" CONC-SE)
IE = 38.93' (42" CONC-S)
LADDER EAST
- ⑨ STORM MANHOLE
RIM = 49.31'
IE = 40.51' (42" CONC-N)
IE = 43.91' (12" CONC-S)
IE = 41.36' (42" CONC-W)
LADDER SE
- ⑩ STORM CATCH BASIN
RIM = 49.14'
IE = 46.74' (8" PVC-S)
- ⑪ STORM CATCH BASIN
RIM = 49.34'
IE = 46.94' (8" PVC-N)

CONSTRUCTION NOTES:

- PROPOSED UNDERGROUND UTILITIES TO BE LOCATED BY THE APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE UTILITY LOCATIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONFLICTS.
- REMOVE EXISTING CURB ALONG PROJECT ENTRY. SAWCUT EXISTING PAVEMENT ONE FOOT FROM EDGE OF GUTTER.
- STARTING AT STA 19+96.43, TO STA: 26+73.03, 1/2 STREET NORTH SIDE OVERLAY, FROM EDGE OF PAVEMENT TO CROWN. STA: 26+73.03, TO STA: 27+96, FULL WIDTH OVERLAY, EDGE OF PAVEMENT TO EDGE OF PAVEMENT.

ONE-CALL NOTE: #1-800-424-5555

BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORD MAPS FURNISHED BY OTHERS AND VERIFIED WHERE POSSIBLE BY FEATURES LOCATED IN THE FIELD. APEX ENGINEERING ASSUMES NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS OR FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO THE DESIGN.

APPROVED

BY _____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE _____

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 CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER

REV NO	REVISION DESCRIPTION	DATE BY

Apex Engineering
2601 South 35th, Suite 200
Tacoma, Washington 98409-7479
(253) 473-4484 FAX: (253) 473-0589

TITLE
PUYALLUP FAIRFIELD INN
OFFSITE SEWER PLAN AND PROFILE

CLIENT
HOLLANDER INVESTMENTS, INC.
19 NORTH COMMERCIAL, SUITE 165
BELLINGHAM, WA 98225
360-647-1916

DATE SEALED 01/03/12

PROJECT MANAGER
MELVIN GARLAND, PLS

DESIGN F. JACOBS
DRAWN S. JOHNSON

CHECKED _____
SEC 33 **T** 20 **R** 4E
FILE NO 31815MRK
DATE 01-03-11
SCALE AS NOTED

SHEET 11 OF 14
FILE NO 31815

ONE-CALL NOTE:
#1-800-424-5555

BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORD MAPS FURNISHED BY OTHERS AND VERIFIED WHERE POSSIBLE BY FEATURES LOCATED IN THE FIELD. APEX ENGINEERING ASSUMES NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS, OR FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO THE DESIGN.

PUYALLUP FAIRFIELD INN
SEWER AND WATER DETAILS - ASBUILT
A PORTION OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON

NOTES:
1. NEAT LINE CUTS SHALL BE SEALED AT TOP WITH A HOT PAVING GRADE AND FACE OF CUT TACKED.
2. TOP OF SHELVE SLOPE 1/2" PER FOOT. CONSTRUCT IN FIELD CHANNEL AND SHELVE TO THE CROWN OF PIPE.

MANHOLE COVER SHALL BE MARKED WITH "SEWER" IN 2" RAISED LETTERS. SEE CITY STANDARD DETAILS NO. 06.01.02 & 06.01.03 FOR ADDITIONAL INFORMATION.

CITY OF PUYALLUP
SANITARY SEWER MANHOLE
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS
04.01.01

NOTES:
1. NEAT LINE CUTS SHALL BE SEALED AT TOP WITH A HOT PAVING GRADE AND FACE OF CUT TACKED.
2. TOP OF SHELVE SLOPE 1/2" PER FOOT. CONSTRUCT IN FIELD CHANNEL AND SHELVE TO THE CROWN OF PIPE.
3. MANHOLE COVER SHALL BE MARKED WITH "SEWER" IN 2" RAISED LETTERS. SEE CITY STANDARD DETAIL NO. 06.01.02 & 06.01.03 FOR ADDITIONAL INFORMATION.

CITY OF PUYALLUP
SHALLOW SANITARY SEWER MANHOLE
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS
04.01.04

NOTES:
1. SAMPLING CONNECTION SHALL BE INSTALLED OUT SIDE WITH UNOBSTRUCTED ACCESS AT ALL TIMES.
2. A SAMPLING CONNECTION SHALL BE INSTALLED FOR EACH COMMERCIAL / RETAIL UNIT OR SPACE.
3. CLEAN OUT AND SAMPLING CONNECTION COVERS:
A) FOR NON-VEHICULAR TRAFFIC INSTALLATIONS USE "CARSON" MODEL 910 GREEN YARD BOX WITH BOLT DOWN LID MARKED SEWER OR APPROVED EQUAL.
B) FOR ASPHALT, GRAVEL, OR TRAFFIC INSTALLATIONS SEE CITY STANDARD DETAIL NO. 04.01.05 FRAME AND COVER SECTION.
4. EACH CLEANOUT ASSEMBLY SHALL CONSIST OF ONE CLEANOUT ADAPTER, HUB & FEMALE, FIT, PVC SI AND ONE CLEANOUT PLUG, MORT WITH RAISED NUT, PVC SDR35.

CITY OF PUYALLUP
COMMERCIAL SIDE SEWER CONNECTION WITH SAMPLING CONNECTION
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS
04.03.04

NOTES:
1. ALL MATERIALS AND FITTINGS SHALL BE AS SPECIFIED OR APPROVED EQUAL.
2. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" IN IMPROVED RIGHT-OF-WAY, AND A MINIMUM 48" IN UNIMPROVED RIGHT-OF-WAY AND EASEMENTS.
3. THE FIRE HYDRANT AND CONCRETE GUARD POSTS SHALL BE PAINTED, MUST-OLEUM SAFETY YELLOW (#743 (TWO COATS)) OR AN APPROVED EQUAL. THE STEEL FITTING SHALL NOT BE PAINTED.
4. FIRE HYDRANTS SHALL HAVE TWO 2-1/2" HOSE PORTS (NATIONAL STANDARD THREAD) WITH CAPS AND CHAINS AND ONE 4" PLUMBER PORT (NATIONAL STANDARD THREAD) WITH A 5" STEEL COUPLING AND BOLT CAP INSTALLED ON THE STEAMER PORT. STEAMER PORT SHALL FACE THE STREET. 1-1/4" PORTING, OPERATING NUT (CONCRETE-CLOSURE OPERATOR), 2" BUNG TYPE STEERING BALL, AUTOMATIC BARREL CHAINS AND 2-1/4" BALL VALVE OPERATOR. HYDRANTS SHALL BE DESIGNED IN A MANNER THAT REQUIRES BARREL BRIDGEMAN WHEN STRUCK BY A VEHICLE. HYDRANTS SHALL CONFORM TO THE LATEST REVISION OF ANNA SPECIFICATIONS NO. C-602-73 FOR FIRE HYDRANTS FOR GROUND WATER SERVICE. FIRE HYDRANTS SHALL INCLUDE THE ENTIRE ASSEMBLY COMPLETE, INCLUDING HYDRANT, GATE VALVE AND BOX, CONNECTING FITTINGS, AND ACCESSORIES.
5. FIRE HYDRANTS SHALL BE AVAL, CLOW MEDALLION, M & H 923, MUELLER CENTURION, OR WATERLOO.
6. GATE VALVES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE WENRICH #140 SEATTLE OR APPROVED EQUAL. THE BODY "WATER" SHALL BE CAST IN RELIEF IN THE TOP.
7. GATE VALVES SHALL CONFORM TO THE LATEST ANNA SPECIFICATIONS FOR COLD WATER, RESILIENT SEATED WEDGE GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE IRON-BODIED BRONZE-MOUNTED, NON-RISING STEEL COUNTER-CLOSURE, OPERATING MECHANICAL, JOINT BE FLANGED. VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE AS MANUFACTURED BY THE HOLLANDER COMPANY OR APPROVED EQUAL.
8. THE HOLDING SPOOL SHALL BE A MECHANICAL-JOINT (M.J.) HOLDING SPOOL, WITH THE USE OF MEGA-LUG CONNECTORS OR APPROVED EQUAL WITH CLASS 52 DUCTILE IRON PIPE.
9. IF DISTANCE BETWEEN WATER MAIN AND FIRE HYDRANT IS GREATER THAN 17 FEET, RESTRAINED JOINTS ARE REQUIRED FOR EACH ADDITIONAL 10 FEET.
10. THE CONTRACTOR SHALL PLACE A 6 OZ. GEOTEXTILE FABRIC AROUND THE WASHED ROCK AREA ENDS TO OVERLAP.
11. A FLUORESCENT ORANGE BAG MUST COVER AND BE SECURED TO THE FIRE HYDRANT UNTIL APPROVED FOR USE BY CITY ENGINEER.

CITY OF PUYALLUP
FIRE HYDRANT ASSEMBLY
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS
03.05.01

NOTES:
1. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" IN IMPROVED RIGHT-OF-WAY, AND A MINIMUM OF 48" IN UNIMPROVED RIGHT-OF-WAY AND EASEMENTS.
2. VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN 10" (10 FEET BELOW FINISHED GRADE). EXTENSION ARE TO BE A MINIMUM OF TWO (2) FEET (24 INCHES) OF EXTENSION TO BE PROVIDED TO THE VALVE. TOP OF EXTENSION SHALL BE 2 FEET BELOW FINISHED GRADE.
3. ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT.
4. VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE WENRICH #140 SEATTLE OR APPROVED EQUAL. THE BODY "WATER" SHALL BE CAST IN RELIEF IN THE TOP.
5. NEAT LINE CUTS SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT OR APPROVED EQUAL.
6. WATER MAINS SHALL BE CONCRETE AND TESTED IN ACCORDANCE WITH DIVISION 7 OF THE 2002 ANNA SPECIFICATIONS SUPPLEMENTED WITH THE FOLLOWING:
A. DUCTILE IRON PIPE SHALL CONFORM TO ANNA C 153, THICKNESS CLASS 52, AND THE EXTERIOR SHALL BE COATED WITH COPE. COPE COATING AND FITTINGS SHALL BE MINIMUM 1/8" THICK AND SHALL CONFORM TO ANNA C 154. COPE SHALL BE 1/8" THICK. COPE SHALL BE HOT DIPPED IN 30" TO 34" PIPE. THE COPE LAMING SHALL CONFORM TO THE REQUIREMENTS OF ANNA C 154.
B. JOINTS SHALL BE TYPICAL FROM JOINTS OR APPROVED EQUAL OR MECHANICAL JOINT TYPE FROM ANNA C 151. EXCEPT WHERE FLANGED JOINTS ARE REQUIRED TO CONNECT TO VALVES OR OTHER EQUIPMENT.
C. BOLTS AND NUTS FOR BURIED FLANGES LOCATED OUTDOORS ABOVE GROUND OR IN OPEN VALVES SHALL BE GALVANIZED. GALVANIZED COATING SHALL BE 1/2" MINIMUM THICKNESS. GALVANIZED COATING SHALL BE 1/2" MINIMUM THICKNESS. GALVANIZED COATING SHALL BE 1/2" MINIMUM THICKNESS. GALVANIZED COATING SHALL BE 1/2" MINIMUM THICKNESS. GALVANIZED COATING SHALL BE 1/2" MINIMUM THICKNESS.
D. BOLTS SHALL BE IN PLACE INSTANTLY SETS SHALL CONFORM TO ANNA C 153, GRADE 57. NUTS SHALL CONFORM WITH ANNA C 154, GRADE 57.
E. FITTINGS A HUBNER FOR EACH NUT, WHERE NEEDED. WASHERS SHALL BE OF THE SAME MATERIAL AS THE NUTS.
F. ALL FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF ANNA C 110 AND ANNA C 111.
G. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN TEN (10) INCHES. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN TEN (10) INCHES.
1. RESTRAINED JOINTS SHALL BE INSTALLED, SEE CITY OF PUYALLUP STANDARD BEDDING DETAIL NO. 06.01.01
2. CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
3. DIVIDE THRUST BY SAFE BEARING LOAD TO DETERMINE REQUIRED AREA (IN SQUARE FEET) OF CONCRETE TO DISTRIBUTE LOAD.
4. BEARING SURFACE AREAS TO BE ADJUSTED BY THE ENGINEER FOR OTHER PRESSURE AND/OR SOIL CONDITIONS.

CITY OF PUYALLUP
WATER VALVES AND MAINS
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS
03.01.01

NOTES:
1. THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN CONSTRUCTING THRUST BLOCKS:
A. BLOCKS MUST BE POURED AGAINST UNDISTURBED SOIL.
B. THE PIPE FITTINGS 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 2,000 PSI AT 28 DAYS.
D. RESTRAINED JOINTS SHALL BE INSTALLED, IN ADDITION TO CONCRETE THRUST BLOCKING, WHEN THRUST BLOCKING TIME IS LIMITED.
E. BLOCKS MUST BE POSITIONED TO COUNTERACT THE DIRECTION OF THE RESULTANT THRUST FORCE.
2. ALL PIPE SHALL BE PROPERLY BEDDED, SEE CITY OF PUYALLUP STANDARD BEDDING DETAIL NO. 06.01.01
3. CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
4. DIVIDE THRUST BY SAFE BEARING LOAD TO DETERMINE REQUIRED AREA (IN SQUARE FEET) OF CONCRETE TO DISTRIBUTE LOAD.
5. BEARING SURFACE AREAS TO BE ADJUSTED BY THE ENGINEER FOR OTHER PRESSURE AND/OR SOIL CONDITIONS.

CITY OF PUYALLUP
HORIZONTAL THRUST BLOCKING
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS
03.02.01-1

NOTES:
1. A LENGTH OF 3/8" (MINIMUM - SEE TABLE BELOW) GALVANIZED CHAIN WRAPPED TIGHTLY TWO TIMES AROUND FITTING WITH A #4 BARS PLACED THROUGH THE CHAIN ENDS EMBEDDED INTO THE CONCRETE THRUST BLOCKING.
2. RESTRAINED JOINTS SHALL BE INSTALLED WITH ALL VERTICAL THRUST BLOCKING.

TABLE 1: CONCRETE BLOCKING FOR VERTICAL BENDS

PIPE DIA.	PIPE PRESSURE (PSI)	BEND ANGLE	CONCRETE WIDTH (IN)	CONCRETE HEIGHT (IN)	CHAIN SIZE	CHAIN EMBEDMENT (IN)
4"	200	45°	12.5"	12.5"	3/8"	12"
		90°	12.5"	12.5"	3/8"	12"
6"	200	45°	18.5"	18.5"	3/8"	12"
		90°	18.5"	18.5"	3/8"	12"
8"	200	45°	24.5"	24.5"	3/8"	12"
		90°	24.5"	24.5"	3/8"	12"
10"	200	45°	30.5"	30.5"	3/8"	12"
		90°	30.5"	30.5"	3/8"	12"
12"	200	45°	36.5"	36.5"	3/8"	12"
		90°	36.5"	36.5"	3/8"	12"
14"	200	45°	42.5"	42.5"	3/8"	12"
		90°	42.5"	42.5"	3/8"	12"
16"	200	45°	48.5"	48.5"	3/8"	12"
		90°	48.5"	48.5"	3/8"	12"

CITY OF PUYALLUP
VERTICAL THRUST BLOCKING
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS
03.02.01-2

TABLE 2: THRUST AT FITTINGS AT 200 PSI

SIZE	TEST PRESSURE (PSI)	THRUST AT FITTINGS IN POUNDS				
		A	B	C	D	E
4"	200	3,140	4,440	2,405	1,225	615
	200	7,070	9,995	5,410	2,760	1,385
6"	200	12,565	17,770	9,620	4,905	2,485
	200	19,635	27,770	15,030	7,680	3,850
8"	200	28,275	39,985	21,640	11,030	5,545
	200	38,485	54,425	29,455	15,015	7,545
10"	200	50,265	71,085	38,470	19,615	9,855
	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.

NOTES:
1. TO DETERMINE THRUST AT PRESSURES OTHER THAN PSI SHOWN, MULTIPLY THE THRUST OBTAINED IN TABLE 2 BY THE RATIO OF THE PRESSURE TO 200 PSI.
EXAMPLE, THE THRUST ON A 12 INCH, 90° BEND AT 300 PSI.
38,485 x 300 PSI / 200 PSI = 59,978 LBS
2. TO DETERMINE THE VOLUME OF THE THRUST BLOCK:
EXAMPLE, (150 LBS/CF UNIT WEIGHT OF CONCRETE)
59,978 LBS ÷ 150 LB/CF = 399.85 CF
399.85 CF ÷ 27 CF/CY = 14.81 CY OF CONCRETE
3. TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (SF) SEE TABLE 3, BEARING VALUE OF SOIL.
EXAMPLE, FOR SAND AND GRAVEL BEARING VALUE FROM TABLE 3 IS 3,000 LBS/SF
59,978 LBS ÷ 3,000 LB/SF = 20 SF OF AREA
4. CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
5. AREAS TO BE ADJUSTED FOR OTHER PRESSURE CONDITIONS
6. NO WATER MAIN SHALL DEAD END AGAINST A MAIN LINE VALVE. DEAD END WATER MAINS SHALL BE BLOCKED AGAINST A RESTRAINED MECHANICAL-JOINT (M.J.) PLUG OR CAP.

CITY OF PUYALLUP
THRUST BLOCKING TABLE
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS
03.02.01-3

REV NO	REVISION DESCRIPTION	DATE BY

Apex Engineering
2601 South 35th, Suite 200
Tacoma, Washington 98409-7479
(253) 473-4464 FAX: (253) 473-0398

PUYALLUP FAIRFIELD INN
SEWER AND WATER DETAILS
HOLLANDER INVESTMENTS, INC.
189 NORTH COMMERCIAL, SUITE 165
BELLINGHAM, WA 98225
360-647-9196

CLIENT
APPROVED
DATE SEALED 01/03/12
PROJECT MANAGER
MELVIN GARLAND, PLS
DESIGN F.JACOBS
DRAWN S.JOHNSON
CHECKED SEC 33 T 20N R 4E
FILE NO 31815MRK
DATE 01-03-11
SCALE AS NOTED
SHEET 12 OF 14
FILE NO 31815

APPROVED
BY _____
CITY OF PUYALLUP
ENGINEERING SERVICES
DATE _____
NOTES:
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 CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER

PUYALLUP FAIRFIELD INN

SEWER AND WATER DETAILS - ASBUILT

A PORTION OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN

CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON

GENERAL NOTES

- ALL PIPE, VALVES, FITTINGS AND OTHER MATERIAL USED SHALL CONFORM TO AWWA STANDARDS (LATEST EDITION).
- ALL CONSTRUCTION SHALL CONFORM TO WSDOT/APWA STANDARDS SPECIFICATIONS, CURRENT EDITION, AND CITY OF PUYALLUP STANDARDS.

① VALVE WITH SUMP PUMP OR DRAIN TO DAYLIGHT, UTILITY VALVE OR APPROVED EQUAL, SIZED TO MAINTAIN CLEARANCES. SEE CITY STANDARD 03.10.01.

② SENSUS FLANGED C2 0MM METER WITH BUILT-IN STRAINER WITH TRPL READING IN 1 CUBIC FEET.

③ FLEX NET TRANSMITTER 520X SINGLE PORT COUPLE WITH LEAK DETECTION. MOUNTED ON METER VALVE LD.

④ FLANGED COUPLING ADAPTOR.

⑤ FLANGE x MECHANICAL JOINT ADAPTOR.

⑥ FLANGED TEE.

⑦ RESILIENT SEATED WEDGE GATE VALVE (FLOAM) WITH 2" SQUARE OPERATING NUT.

⑧ TWO-PIECE, ADJUSTABLE, CAST IRON VALVE BOX AS MANUFACTURED BY THE VANRICH #940 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN THE TOP.

⑨ FLANGED SPOOL LENGTH AS REQUIRED.

⑩ FLANGE x PLAIN END SPOOL LENGTH AS REQUIRED.

⑪ 2" x 2" DOUBLE STRAP SADDLE, FORD FS202 OR APPROVED EQUAL.

⑫ 2" x 4" BRASS NIPPLE, 2" BALL VALVE FORD B11-777 OR APPROVED EQUAL, 2-1/2" MALE (N) x 2" FEMALE (F) THREADED BRASS FIRE HOSE ADAPTOR, 2-1/2" (N) x 1/2" (N) BRASS NOZZLE CAP.

⑬ BLIND FLANGE WITH 2" THREADED OUTLET.

⑭ 2" LOCKING BALL VALVE FORD B11-777R OR APPROVED EQUAL.

⑮ 2" GALVANIZED UNION.

⑯ 2" GALVANIZED ELL.

⑰ 2" THREADED GALVANIZED PIPE - CUT TO LENGTH AS REQUIRED.

⑱ 2" ADJUSTABLE GALVANIZED PIPE SUPPORT.

⑳ MEGA LUG RING SECURED AGAINST VAULT WALL. MASTIC AND MORTAR SEAL WHERE PIPE PASSES THROUGH VAULT WALL.

NOTE: * = 3", 4", OR 6" DEPENDING ON SERVICE LINE SIZE.

CITY OF PUYALLUP	1-1/2" AND 2" WATER SERVICE CONNECTION
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	03.03.02

GENERAL NOTES

- ALL PIPE, VALVES, FITTINGS AND OTHER MATERIAL USED SHALL CONFORM TO AWWA STANDARDS (LATEST EDITION).
- ALL CONSTRUCTION SHALL CONFORM TO WSDOT/APWA STANDARDS SPECIFICATIONS, CURRENT EDITION, AND CITY OF PUYALLUP STANDARDS.

① VALVE WITH SUMP PUMP OR DRAIN TO DAYLIGHT, UTILITY VALVE OR APPROVED EQUAL, SIZED TO MAINTAIN CLEARANCES. SEE CITY STANDARD 03.10.01.

② SENSUS FLANGED C2 0MM METER WITH BUILT-IN STRAINER WITH TRPL READING IN 1 CUBIC FEET.

③ FLEX NET TRANSMITTER 520X SINGLE PORT COUPLE WITH LEAK DETECTION. MOUNTED ON METER VALVE LD.

④ FLANGED COUPLING ADAPTOR.

⑤ FLANGE x MECHANICAL JOINT ADAPTOR.

⑥ FLANGED TEE.

⑦ RESILIENT SEATED WEDGE GATE VALVE (FLOAM) WITH 2" SQUARE OPERATING NUT.

⑧ TWO-PIECE, ADJUSTABLE, CAST IRON VALVE BOX AS MANUFACTURED BY THE VANRICH #940 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN THE TOP.

⑨ FLANGED SPOOL LENGTH AS REQUIRED.

⑩ FLANGE x PLAIN END SPOOL LENGTH AS REQUIRED.

⑪ 2" x 2" DOUBLE STRAP SADDLE, FORD FS202 OR APPROVED EQUAL.

⑫ 2" x 4" BRASS NIPPLE, 2" BALL VALVE FORD B11-777 OR APPROVED EQUAL, 2-1/2" MALE (N) x 2" FEMALE (F) THREADED BRASS FIRE HOSE ADAPTOR, 2-1/2" (N) x 1/2" (N) BRASS NOZZLE CAP.

⑬ BLIND FLANGE WITH 2" THREADED OUTLET.

⑭ 2" LOCKING BALL VALVE FORD B11-777R OR APPROVED EQUAL.

⑮ 2" GALVANIZED UNION.

⑯ 2" GALVANIZED ELL.

⑰ 2" THREADED GALVANIZED PIPE - CUT TO LENGTH AS REQUIRED.

⑱ 2" ADJUSTABLE GALVANIZED PIPE SUPPORT.

⑳ MEGA LUG RING SECURED AGAINST VAULT WALL. MASTIC AND MORTAR SEAL WHERE PIPE PASSES THROUGH VAULT WALL.

NOTE: * = 3", 4", OR 6" DEPENDING ON SERVICE LINE SIZE.

CITY OF PUYALLUP	3"-4"-6" WATER SERVICE
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	03.03.03

GENERAL NOTES

- ALL PIPE, VALVES, FITTINGS AND OTHER MATERIAL USED SHALL CONFORM TO AWWA STANDARDS (LATEST EDITION).
- ALL CONSTRUCTION SHALL CONFORM TO WSDOT/APWA STANDARDS SPECIFICATIONS, CURRENT EDITION, AND CITY OF PUYALLUP STANDARDS.

① VALVE WITH SUMP PUMP OR DRAIN TO DAYLIGHT, UTILITY VALVE OR APPROVED EQUAL, SIZED TO MAINTAIN CLEARANCES. SEE CITY STANDARD 03.10.01.

② SENSUS FLANGED C2 0MM METER WITH BUILT-IN STRAINER WITH TRPL READING IN 1 CUBIC FEET.

③ FLEX NET TRANSMITTER 520X SINGLE PORT COUPLE WITH LEAK DETECTION. MOUNTED ON METER VALVE LD.

④ FLANGED COUPLING ADAPTOR.

⑤ FLANGE x MECHANICAL JOINT ADAPTOR.

⑥ FLANGED TEE.

⑦ RESILIENT SEATED WEDGE GATE VALVE (FLOAM) WITH 2" SQUARE OPERATING NUT.

⑧ TWO-PIECE, ADJUSTABLE, CAST IRON VALVE BOX AS MANUFACTURED BY THE VANRICH #940 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN THE TOP.

⑨ FLANGED SPOOL LENGTH AS REQUIRED.

⑩ FLANGE x PLAIN END SPOOL LENGTH AS REQUIRED.

⑪ 2" x 2" DOUBLE STRAP SADDLE, FORD FS202 OR APPROVED EQUAL.

⑫ 2" x 4" BRASS NIPPLE, 2" BALL VALVE FORD B11-777 OR APPROVED EQUAL, 2-1/2" MALE (N) x 2" FEMALE (F) THREADED BRASS FIRE HOSE ADAPTOR, 2-1/2" (N) x 1/2" (N) BRASS NOZZLE CAP.

⑬ BLIND FLANGE WITH 2" THREADED OUTLET.

⑭ 2" LOCKING BALL VALVE FORD B11-777R OR APPROVED EQUAL.

⑮ 2" GALVANIZED UNION.

⑯ 2" GALVANIZED ELL.

⑰ 2" THREADED GALVANIZED PIPE - CUT TO LENGTH AS REQUIRED.

⑱ 2" ADJUSTABLE GALVANIZED PIPE SUPPORT.

⑳ MEGA LUG RING SECURED AGAINST VAULT WALL. MASTIC AND MORTAR SEAL WHERE PIPE PASSES THROUGH VAULT WALL.

NOTE: * = 3", 4", OR 6" DEPENDING ON SERVICE LINE SIZE.

CITY OF PUYALLUP	2" AND SMALLER REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLATION
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	03.04.02-1

NOTES FOR 2" AND SMALLER REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA) INSTALLATION

- BACKFLOW ASSEMBLY MUST BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S LIST OF BACKFLOW PREVENTION ASSEMBLIES APPROVED FOR INSTALLATION IN WASHINGTON STATE, LATEST EDITION.
- THE RPBA SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING. IT SHALL BE TESTED AFTER INSTALLATION, BY A WASHINGTON STATE CERTIFIED BACK-FLOW ASSEMBLY TESTER, TO INSURE ITS SATISFACTORY OPERATION BEFORE OCCUPANCY, AND ANNUALLY THEREAFTER. SEND TEST RESULTS TO: CITY OF PUYALLUP, WATER QUALITY OPERATIONS, 1100 39TH AVE SE, PUYALLUP, WA 98374.
- THE RPBA MUST BE PURCHASED AS A UNIT. NO MODIFICATIONS TO THE ASSEMBLY ARE ALLOWED.
- THE RPBA SHALL NOT BE INSTALLED IN A PIT BELOW GROUND LEVEL.
- THE PROTECTIVE COVERING FOR THE RPBA, WHICH PROTECTS THE ASSEMBLY FROM FREEZING, MUST INCLUDE A DAYLIGHT DRAIN. THE DRAIN MUST BE INSTALLED ABOVE GROUND OR ABOVE THE MAXIMUM FLOOD LEVEL, WHICHEVER IS HIGHER. THE DRAIN MUST BE A MINIMUM OF TWICE THE SIZE OF THE RPBA, TO BE ABLE TO HANDLE THE VOLUME OF WATER THAT POTENTIALLY COULD BE DISCHARGED FROM THE RELIEF VALVE PORT.
- THE RPBA SHALL BE SIZED EQUAL OR COMPARABLE TO THE METER SIZE.
- USE ONLY BRASS OR COPPER BETWEEN THE METER AND RPBA.
- DIELECTRIC UNIONS MUST BE USED TO SEPARATE DISSIMILAR MATERIALS.
- THE RPBA SHOULD BE LOCATED IMMEDIATELY DOWNSTREAM OF THE METER, AND SHOULD NOT BE INSTALLED INSIDE A BUILDING. IF THE RPBA IS LOCATED INSIDE A BUILDING IT SHALL BE INSTALLED IN A LOCATION WHERE BOTH THE OCCASIONAL SPITTING FROM THE RELIEF VALVE PORT AND THE POSSIBLE CONSTANT DISCHARGE DURING A FOULLED CHECK VALVE SITUATION WILL NOT BE OBJECTIONABLE. AN APPROVED AIR GAP FUNNEL ASSEMBLY PROVIDED BY THE MANUFACTURER, MAY BE INSTALLED TO HANDLE THE OCCASIONAL SPITTING OF THE RELIEF VALVE DUE TO PRESSURE FLUCTUATIONS. A LINE FROM THIS FUNNEL ASSEMBLY MAY THEN BE RUN TO AN ADEQUATELY-SIZED FLOOR DRAIN. THE FLOOR DRAIN MUST BE A MINIMUM OF TWICE THE SIZE OF THE RPBA, TO BE ABLE TO HANDLE THE VOLUME OF WATER THAT POTENTIALLY COULD BE DISCHARGED FROM THE RELIEF VALVE PORT. IT MUST BE EMPHASIZED THAT THE AIR GAP FUNNEL ASSEMBLY WILL HANDLE ONLY THE OCCASIONAL SPITTING AND WILL NOT CONTROL FLOW IN A CONTINUOUS RELIEF SITUATION.
- AN RPBA INSTALLED MORE THAN FIVE (5) FEET ABOVE FLOOR LEVEL MUST HAVE A PLATFORM UNDER IT FOR THE TESTER OR MAINTENANCE PERSON TO STAND ON. THE PLATFORM MUST BE OSHA APPROVED AND MEET ALL APPLICABLE SAFETY STANDARDS AND CODES.

CITY OF PUYALLUP	2" AND SMALLER REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLATION (NOTES)
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	03.04.02-2

GENERAL NOTES

- ALL PIPE, VALVES, FITTINGS AND OTHER MATERIAL USED SHALL CONFORM TO AWWA STANDARDS (LATEST EDITION).
- ALL CONSTRUCTION SHALL CONFORM TO WSDOT/APWA STANDARDS SPECIFICATIONS, CURRENT EDITION, AND CITY OF PUYALLUP STANDARDS.

① VALVE WITH SUMP PUMP OR DRAIN TO DAYLIGHT, UTILITY VALVE OR APPROVED EQUAL, SIZED TO MAINTAIN CLEARANCES. SEE CITY STANDARD 03.10.01.

② SENSUS FLANGED C2 0MM METER WITH BUILT-IN STRAINER WITH TRPL READING IN 1 CUBIC FEET.

③ FLEX NET TRANSMITTER 520X SINGLE PORT COUPLE WITH LEAK DETECTION. MOUNTED ON METER VALVE LD.

④ FLANGED COUPLING ADAPTOR.

⑤ FLANGE x MECHANICAL JOINT ADAPTOR.

⑥ FLANGED TEE.

⑦ RESILIENT SEATED WEDGE GATE VALVE (FLOAM) WITH 2" SQUARE OPERATING NUT.

⑧ TWO-PIECE, ADJUSTABLE, CAST IRON VALVE BOX AS MANUFACTURED BY THE VANRICH #940 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN THE TOP.

⑨ FLANGED SPOOL LENGTH AS REQUIRED.

⑩ FLANGE x PLAIN END SPOOL LENGTH AS REQUIRED.

⑪ 2" x 2" DOUBLE STRAP SADDLE, FORD FS202 OR APPROVED EQUAL.

⑫ 2" x 4" BRASS NIPPLE, 2" BALL VALVE FORD B11-777 OR APPROVED EQUAL, 2-1/2" MALE (N) x 2" FEMALE (F) THREADED BRASS FIRE HOSE ADAPTOR, 2-1/2" (N) x 1/2" (N) BRASS NOZZLE CAP.

⑬ BLIND FLANGE WITH 2" THREADED OUTLET.

⑭ 2" LOCKING BALL VALVE FORD B11-777R OR APPROVED EQUAL.

⑮ 2" GALVANIZED UNION.

⑯ 2" GALVANIZED ELL.

⑰ 2" THREADED GALVANIZED PIPE - CUT TO LENGTH AS REQUIRED.

⑱ 2" ADJUSTABLE GALVANIZED PIPE SUPPORT.

⑳ MEGA LUG RING SECURED AGAINST VAULT WALL. MASTIC AND MORTAR SEAL WHERE PIPE PASSES THROUGH VAULT WALL.

NOTE: * = 3", 4", OR 6" DEPENDING ON SERVICE LINE SIZE.

CITY OF PUYALLUP	3" AND ABOVE REDUCED PRESSURE BACKFLOW ASSEMBLY
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	03.04.03

GENERAL NOTES

- ALL PIPE, VALVES, FITTINGS AND OTHER MATERIAL USED SHALL CONFORM TO AWWA STANDARDS (LATEST EDITION).
- ALL CONSTRUCTION SHALL CONFORM TO WSDOT/APWA STANDARDS SPECIFICATIONS, CURRENT EDITION, AND CITY OF PUYALLUP STANDARDS.

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CITY OF PUYALLUP	DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	03.10.01-1

NOTES FOR: DOUBLE DETECTOR CHECK VALVE ASSEMBLY (DDCVA) INSTALLATION

- BACKFLOW ASSEMBLY MUST BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S LIST OF BACKFLOW PREVENTION ASSEMBLIES APPROVED FOR INSTALLATION IN WASHINGTON STATE, LATEST EDITION.
- THE DDCVA SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING. IT SHALL BE TESTED AFTER INSTALLATION, BY A WASHINGTON STATE CERTIFIED BACK-FLOW ASSEMBLY TESTER, TO INSURE ITS SATISFACTORY OPERATION BEFORE OCCUPANCY, AND ANNUALLY THEREAFTER. SEND TEST RESULTS TO: CITY OF PUYALLUP, WATER QUALITY OPERATIONS, 1100 39TH AVE SE, PUYALLUP, WA 98374.
- DDCVA MUST BE PURCHASED AS A UNIT. NO MODIFICATIONS TO THE ASSEMBLY ARE ALLOWED.
- APPROVAL BY THE CITY OF PUYALLUP MUST BE OBTAINED BEFORE THE DDCVA IS ALLOWED TO BE LOCATED WITHIN A BUILDING. WHEN THE DDCVA IS LOCATED WITHIN A BUILDING, THE FIRE DEPARTMENT CONNECTION (FDC) BALL DRIP SHALL DRAIN TO THE NEAREST APPROVED ON-SITE STORM DRAINAGE STRUCTURE.
- IF VAULT CANNOT BE DRAINED TO DAYLIGHT, A 1/4 HP SUMP PUMP SHALL BE INSTALLED IN THE SUMP PIT OF THE VAULT. IT SHALL BE WIRED PER WASHINGTON STATE ELECTRICAL CODE, AND INSPECTED BY A STATE ELECTRICAL INSPECTOR. THE DISCHARGE PIPE SHALL BE CONNECTED TO THE NEAREST APPROVED ON-SITE STORM DRAINAGE STRUCTURE.
- DDCVA OUTSIDE STEM AND YOKE (OS&Y) GATE VALVES, AND THE POST INDICATOR VALVE (PIV), SHALL HAVE SUPERVISED TAMPER SWITCHES.
- ALL ELECTRICAL SHALL BE INSPECTED BY A WASHINGTON STATE ELECTRICAL INSPECTOR.
- RUN TWO 3/4" SCHEDULE 80 P.V.C. CONDUITS TO THE VAULT. ONE WILL BE USED FOR A GFCI PROTECTED OUTLET, AND ONE WILL BE FOR LOW VOLTAGE COMING FROM THE FIRE ALARM PANEL. INSTALL AN APPLETON FSCA OR FDCA CAST DEVICE BOX OR APPROVED EQUAL ON THE VAULT WALL AT THE CONDUIT PENETRATION.
- WATER METER SHALL BE A SENSUS SRII TRPL READING IN 1 CUBIC FEET.
- PIPE SUPPORTS SHALL BE RUST-PROTECTED WITH ALUMINUM PAINT.
- THE FDC SHALL BE LOCATED WITHIN 15 FEET OF A FIRE HYDRANT, BUT NOT LESS THAN 10 FEET.
- THE PIV SHALL BE A MINIMUM OF 40 FEET FROM A BUILDING, UNLESS APPROVED BY THE CITY OF PUYALLUP FIRE CODE OFFICIAL.

CITY OF PUYALLUP	DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION (NOTES)
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	03.10.01-2

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CITY OF PUYALLUP	2" AND SMALLER DOUBLE CHECK VALVE ASSEMBLY INSTALLATION
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	03.04.01

APPROVED

BY: CITY OF PUYALLUP ENGINEERING SERVICES

DATE: _____

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 CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER

REV NO	REVISION DESCRIPTION	DATE BY

Apex Engineering
2601 South 35th, Suite 200
Tacoma, Washington 98409-7479
(253) 473-4484 FAX: (253) 473-0589

PUYALLUP FAIRFIELD INN
SEWER AND WATER DETAILS

HOLLANDER INVESTMENTS, INC.
119 NORTH COMMERCIAL, SUITE 605
BELLINGHAM, WA 98225
360-647-916

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

3" AND ABOVE REDUCED PRESSURE BACKFLOW ASSEMBLY

03.04.03

DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION

03.10.01-1

2" AND SMALLER DOUBLE CHECK VALVE ASSEMBLY INSTALLATION

03.04.01

DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION (NOTES)

03.10.01-2

2" AND SMALLER REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLATION (NOTES)

03.04.02-2

3"-4"-6" WATER SERVICE

03.03.03

1-1/2" AND 2" WATER SERVICE CONNECTION

03.03.02

DATE SEALED 01/03/12

PROJECT MANAGER
MELVIN GARLAND, PLS

DESIGN
FJACOBSON

DRAWN
SJOHNSON

CHECKED
SEC 33 T 20N R 4E

FILE NO
31815MRK

DATE
01-03-11

SCALE
AS NOTED

SHEET 13 OF 14

FILE NO
31815

