

UNITY CARE NW - FERNDALE

6044 PORTAL WAY
FERNDALE, WA

LIST OF CONTACTS:

APPROVAL AGENCY:
CITY OF FERNDALE
2095 MAIN STREET
FERNDALE, WA. 98248

ENGINEERING FIRM:
2020 ENGINEERING, INC.
814 DUPONT STREET
BELLINGHAM, WA. 98225
ENGINEER: MARK BUEHRER, PE
PHONE: (360) 671-2020

OWNER:
UNITY CARE NW - FERNDALE
220 UNITY STREET
BELLINGHAM, WA. 98225

SERVICES:

WATER / SEWER:
CITY OF FERNDALE
2095 MAIN STREET
FERNDAL, WA. 98248

SURVEYOR:
CHRISTIE AND CHRISTIE
222 GRAND AVE, SUITE D
BELLINGHAM, WA. 98225
(360) 671-8855
CONTACT: BRIAN CHRISTIE

NATURAL GAS:
CASCADE NATURAL GAS
1600 IOWA STREET
BELLINGHAM, WA. 98229

ELECTRICITY:
PUGET SOUND ENERGY
10885 NE 4TH STREET
P.O. BOX 97034
BELLEVUE, WA. 98009
PH: (888) 321-7779

FIRE PROTECTION:
WHATCOM COUNTY FIRE
DISTRICT #7
P.O. BOX 1599
FERNDAL, WA. 98248

HORIZONTAL DATUM:

CITY OF FERNDAL (NAD 83/91)
BASIS OF BEARINGS AND COORDINATES:
HELD POSITION OF 'FERN 6', WITH RECORD INVERSE
TO 'FERN 3', BEARING: N01°53'08"E, 4672.29'(4672.35')

VERTICAL DATUM:

CITY OF FERNDAL (NGVD 29)
HELD RECORD ELEVATION OF 'FERN 6'
ELEVATION=48.96'
TBM ON-SITE: TBM NO. 150.03-18, AS SHOWN
T.B.M. ELEV.=37.51'

LEGAL DESCRIPTION:

THAT PORTION OF CROWN COURT CONDOMINIUM, A CONDOMINIUM, ACCORDING TO THE DECLARATION THEREOF, RECORDED UNDER AUDITOR'S FILE NO. 2081002940, AND ANY AMENDMENTS THERETO, RECORDS OF WHATCOM COUNTY, WASHINGTON, LYING WITHIN LOT B, CROWN COURT LOT LINE ADJUSTMENT, AS PER THE PLAT RECORDED UNDER AUDITOR'S FILE NO. 2071001917, RECORDS OF WHATCOM COUNTY, WASHINGTON. SITUATE IN WHATCOM COUNTY, WASHINGTON.

SITE INFORMATION:

PROPERTY ADDRESSES:
6044 PORTAL WA
FERNDAL, WA. 98248

PROPERTY ZONING:
HIGHWAY COMMERCIAL

TAX PARCEL NUMBER:
390220 310470 0000 PID 95587

SHEET LIST:

SHT#	TITLE
C100	COVER SHEET
C110	GENERAL NOTES
C200	EXISTING SITE PLAN
C300	DEMO PLAN
C400	T.E.S.C. PLAN
C410	T.E.S.C. DETAILS
C500	SITE PLAN
C510	SITE DETAILS
C600	GRADING & DRAINAGE PLAN
C610	DRAINAGE SECTIONS & DETAILS
C700	UTILITY PLAN
C710	UTILITY DETAILS
C711	UTILITY DETAILS (CONT.)

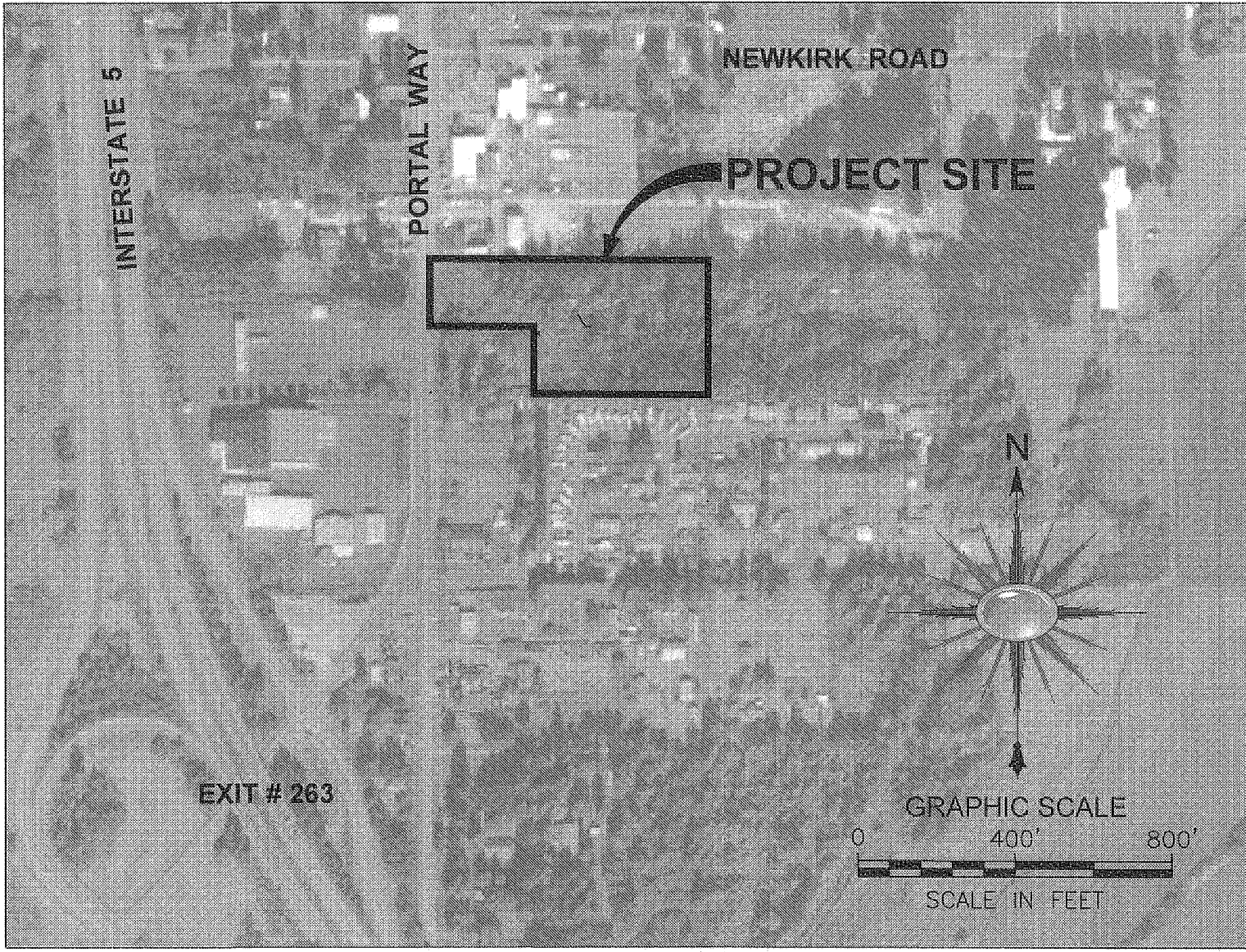
ABBREVIATIONS:

AC	ACRE(S)	R	CURVE RADIUS (TYPICAL)
ADD'L	ADDITIONAL	ROW	RIGHT-OF-WAY
BLDG	BUILDING	SD	STORM DRAIN (PIPE)
BMP	BEST MANAGEMENT PRACTICES	SHLD	SHOULDER
BOT	BOTTOM	SS	SANITARY SEWER
BS	BOTTOM OF STEP	SO	SOUTH
BW	BOTTOM OF WALL	STA	STATION (ALONG ROAD ALIGNMENT)
CL	CENTER LINE OR CLEARING LIMITS	TB	THRUST BLOCK
COF	CITY OF FERNDAL	TC	TOP OF CURB
CO	CLEANOUT	TP	TOP OF STEP
CONC	CONCRETE	TS	SURVEY MARK (TURNING POINT)
Ø	DIAMETER	TW	TOP OF WALL
DS	DOWNSPOUT	TYP	TYPICAL
DI	DUCTILE IRON	(V)	VERTICAL (SCALE VALUE)
E	EAST	WA	WATER
EP	EDGE OF PAVEMENT		
EL	ELEVATION		
EX	EXISTING		
FF	FINISHED FLOOR		
FG	FINISHED GRADE		
FL	FLOWLINE		
IE	INVERT ELEVATION		
INV	INVERT		
FF	FINISHED FLOOR (ELEVATION)		
(H)	HORIZONTAL (SCALE VALUE)		
LF	LINEAR FEET		
LS	LANDSCAPE / LANDSCAPING		
MAX	MAXIMUM		
MIN	MINIMUM		
N	NORTH		
NTS	NOT TO SCALE		
PERF	PERFORATED		
PC	POINT OF CURVATURE		
PCC	POINT OF COMPOUND CURVATURE		
PL	PROPERTY LINE		
POC	POINT OF CONNECTION		
PRC	POINT OF REVERSE CURVATURE		
PRKG	PARKING		
PT	POINT OF TANGENCY (TO CURVE)		
PVMT	PAVEMENT		

SECTION 20, T. 39 N., R. 2 E., W.M., WHATCOM CO. WA.



VICINITY MAP
NTS



LOCATION MAP

APPROVED

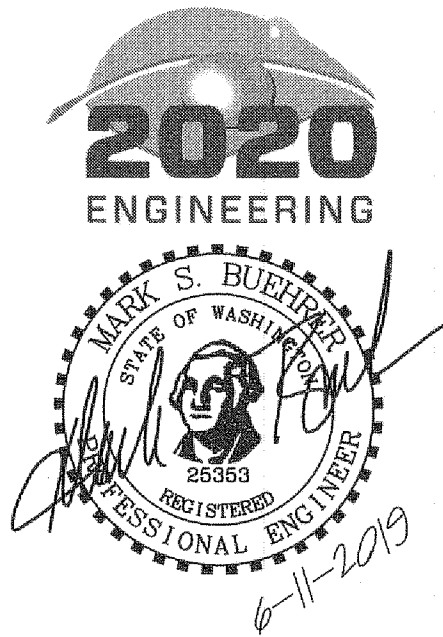
JUN 11 2019
Mark S. Buehrer
PUBLIC WORKS DEPARTMENT

ENGINEER'S CERTIFICATION:

I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR THE UNITY CARE NW - FERNDAL PROJECT HAVE BEEN INSPECTED BY MARK BUEHRER AND HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDAL DEVELOPMENT STANDARDS, THE CITY OF FERNDAL MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE.

811
Know what's below.
Call before you dig.

RMC ARCHITECTS



Unity Care NW
Unity Care NW - Ferndale
6044 Portal Way
Ferndale, WA

Job No:	Date:
File No:	2019-4-12
Drawn By:	B. GIBSON
Checked By:	H. CRUISE
Issued For:	M. BUEHRER
PROJECT RECORD	
1 BID SET	2017-03-01
2 CONSTRUCTION SET	2018-01-15
3 BID CLARIFICATIONS	2018-02-05
4 AS BUILT SET	2019-06-11

COVER

C100

GENERAL NOTES:

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE CITY OF FERNDALE STANDARDS AND SPECIFICATIONS, WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, AND THE WSDOT HYDRAULICS MANUAL.
- ALL WORK WITHIN THE SITE AND CITY RIGHT-OF-WAY SHALL BE SUBJECT TO THE INSPECTION OF THE CITY INSPECTOR OR ITS DESIGNATED REPRESENTATIVE.
- THE DEVELOPER/PROJECT ENGINEER IS RESPONSIBLE FOR WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM ESTABLISHED BY THE PROJECT ENGINEER AND THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT DIRECTOR.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING ARE COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- ALL BACKFILL IN THE RIGHT OF WAY SHALL BE IMPORTED BANK RUN GRAVEL. TRENCH BACKFILL OF NEW UTILITIES AND STORM DRAINAGE FACILITIES SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY (MODIFIED PROCTOR) UNDER ROADWAYS AND 90% OF MAXIMUM DENSITY (MODIFIED PROCTOR) OFF ROADWAYS, AS SPECIFIED IN 1991 WSDOT STANDARD SPECIFICATIONS, SECTION 2-03.3(14)C COMPACTING EARTH EMBANKMENTS METHOD 'B'.
- NON-COMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS OR CLEARING LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL AND/OR BOND FORECLOSURES.
- ALL POTENTIAL POLLUTANTS, INCLUDING BUT NOT LIMITED TO WASH WATER, HUMAN WASTES, CHEMICALS, OILS, FUELS, VEHICULAR LUBRICATION AND COOLING FLUIDS, MISCELLANEOUS TRASH AND WASTE MATERIALS, DEMOLITION DEBRIS, PESTICIDES, HERBICIDES, AND FERTILIZERS SHALL BE HANDLED IN SUCH A MANNER TO PREVENT CONTAMINATION OF STORMWATER. STORED HAZARDOUS MATERIALS SHALL BE PROTECTED FROM VANDALISM, COVERED, AND HAVE SPILL CONTAINMENT IN PLACE, INCLUDING PLASTIC OR OTHER GROUND COVER TO MINIMIZE THE OPPORTUNITY FOR ANY SPILLED MATERIALS TO INFILTRATE INTO THE SOILS.
- ANY SPILLAGE OF HAZARDOUS MATERIALS INTO SURFACE WATERS OR INTO THE GROUND SHALL BE IMMEDIATELY CONTAINED AND REPORTED TO WHATCOM COUNTY, THE CITY OF FERNDALE, THE WASHINGTON STATE DEPARTMENT OF ECOLOGY, AND OTHER APPROPRIATE STATE OR FEDERAL AUTHORITIES, AND IMMEDIATELY CONTAINED. PESTICIDES, HERBICIDES OR FERTILIZERS SHALL NOT BE APPLIED DURING OR IMMEDIATELY PRIOR TO EXPECTED PRECIPITATION EVENTS, AND APPLICATION SHALL FOLLOW THE MANUFACTURER'S RECOMMENDATIONS.
- ALL MITIGATION MEASURES IDENTIFIED IN THE CITY'S 01/29/2009 SEPA MITIGATED DETERMINATION OF NON-SIGNIFICANCE (MDNS) SHALL BE MADE CONDITIONS OF THIS APPROVAL.
- ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE IBC AND ALL OTHER APPLICABLE STATE AND LOCAL CODES AND REQUIREMENTS TO THE SATISFACTION OF THE BUILDING DEPARTMENT.
- SHOULD ARCHAEOLOGICAL MATERIALS (e.g. SHELL MIDDEN, FAUNAL REMAINS, STONE TOOLS OR HUMAN REMAINS) BE OBSERVED DURING PROJECT ACTIVITIES, ALL WORK IN THE IMMEDIATE VICINITY SHALL STOP AND THE AREA SHALL BE SECURED. THE STATE OFFICE OF ARCHAEOLOGY AND HISTORIC PRESERVATION (360-586-3065) AND THE LUMMI NATION TRIBAL HISTORIC PRESERVATION OFFICE (360-384-2298) SHALL BE CONTACTED IMMEDIATELY IN ORDER TO HELP ASSESS THE SITUATION AND DETERMINE HOW TO PRESERVE THE RESOURCE(S). COMPLIANCE WITH ALL APPLICABLE LAWS PERTAINING TO ARCHAEOLOGICAL RESOURCES IS REQUIRED.
- CONTRACTOR TO VERIFY DRY UTILITY CONNECTIONS AND NEEDS WITH UTILITY PROVIDERS.

GENERAL REQUIREMENTS:

- ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE "STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION" (WSDOT SPECS.), THE CITY OF FERNDALE DEVELOPMENT STANDARDS (COFDS) AND THE 2005 VERSION OF THE DEPARTMENT OF ECOLOGY STORM WATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (DOE MANUAL). IN CASE OF A CONFLICT BETWEEN PLANS, REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER CONSTRUCTION DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. THROUGHOUT THE PERIOD OF CONSTRUCTION, CONTRACTOR SHALL COMPLY WITH THE TERMS OF ALL PERMITS.
- THE CONTRACTOR MUST HAVE A FULL SET OF CITY CONTRACT DOCUMENTS ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- CONSTRUCTION NOISE SHALL BE LIMITED TO BETWEEN 7 a.m. TO 8 p.m., MONDAY THROUGH SATURDAY.
- THE CONTRACTOR SHALL CONTACT THE UTILITIES UNDERGROUND LOCATION CENTER AT LEAST 72 HOURS PRIOR TO STARTING CONSTRUCTION. PHONE: 1-800-424-5555. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL OF THE VARIOUS UTILITY COMPANIES TO ARRANGE FOR FIELD LOCATIONS OF ALL EXISTING UTILITY FACILITIES. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR COSTS INCURRED BECAUSE OF DAMAGE DONE TO EXISTING FACILITIES BY THE CONTRACTOR'S WORK FORCE, INCLUDING COSTS FOR REPAIRS, WHICH WILL BE CONTRACTOR'S SOLE RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EXISTING UTILITIES AND TO NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT BETWEEN THE APPROVED PLANS AND THE LOCATION OF ANY EXISTING UTILITIES.
- THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE RESULTING FROM THE WORK. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISRUPTED BY THE PROJECT IMMEDIATELY AFTER CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING OR GRADING IN CONFORMANCE WITH THE EROSION & SEDIMENTATION CONTROL PLAN AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHALL BE ONSITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
- SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL ABOVE GROUND AND BURIED DEBRIS AND WASTE THAT MAY BE PRESENT.
- THE CONTRACTOR SHALL OBTAIN REVOCABLE ENCROACHMENT PERMITS FROM THE CITY OF FERNDALE AND/OR WHATCOM COUNTY PRIOR TO COMMENCING WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH REPRESENTATIVES OF THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT AND THE PROJECT ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CITY WILL SCHEDULE THE MEETING.
- ALL WORK AND MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT, REPRESENTATIVES FROM THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT MUST INSPECT ALL WORK IDENTIFIED ON THE PLANS, BOTH PUBLIC AND PRIVATE. THE CONTRACTOR SHALL CALL AT LEAST 24 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS AS FOLLOW:

- PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES.
- CONSTRICTION OF STORMWATER MANAGEMENT FACILITIES.
- PLACEMENT OF WATER MAIN AND BACKFILLING OF WATER MAIN TRENCH WITHIN ROAD RIGHTS OF WAY OR IN WATERLINE EASEMENT TO BE DEDICATED TO THE CITY OF FERNDALE.
- PLACING OR BACKFILLING OF UNDERGROUND UTILITIES, STORM SEWER AND SANITARY SEWER WITHIN ROAD RIGHTS-OF-WAY, IN EASEMENTS TO BE DEDICATED TO THE CITY OF FERNDALE, OR OTHER PUBLICLY SHARED FACILITIES.
- GRADING OF PUBLIC OR PRIVATE ROADWAY AT:
 - COMPLETION OF EXCAVATION TO SUBGRADE.
 - COMPLETION OF BALLAST COURSE PLACEMENT
 - COMPLETION OF CRUSHED SURFACING COURSE PLACEMENT
- POURING OF CURB AND GUTTER AND SIDEWALK IN PUBLIC ROADWAY.
- ASPHALT PAVING IN PROGRESS IN PUBLIC ROADWAY.
- OVERALL INSPECTION FOR FINISHED SHOULDERS, DITCHES, PERMANENT SEEDING AND MONUMENT PLACEMENT.
- END OF MAINTENANCE PERIOD

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO PERFORMING THE WORK. ALL SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS 1-07.23- TRAFFIC CONTROL, SHALL APPLY.
- THE CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF ANY PROPOSED DEVIATION FROM THE APPROVED PLANS PRIOR TO CONSTRUCTION OF THE REVISED IMPROVEMENTS. THE CONTRACTOR SHALL KEEP RECORDS OF ALL DEVIATIONS AND SHALL FORWARD THEM TO THE ENGINEER AND TO THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT.
- AS-BUILT DATA SHALL BE PROVIDED TO THE CITY OF FERNDALE UPON COMPLETION OF CONSTRUCTION AND PROVIDED IN CITY OF FERNDALE DATUM - VERTICAL (NGVD 29) AND HORIZONTAL (NAD 83/91). CONTACT THE CITY FOR MORE INFORMATION ON SUBMITTAL REQUIREMENTS.

UNDERGROUND UTILITIES CONSTRUCTION:

- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO ASSURE ACCURATE AND TIMELY COLLECTION OF ALL REQUIRED AS-BUILT DATA. THIS DATA MUST ACCURATELY REFLECT THE LOCATIONS OF ALL UNDERGROUND UTILITIES, BOTTOM OF PIPE ELEVATIONS, INVERT ELEVATIONS, MANHOLE LOCATIONS, WATER SERVICE TAPS, BLOW-OFF LOCATIONS AND INVERTS OF SERVICE CONNECTIONS (BOTH AT PIPE AND AT PROPERTY LINE), VERTICAL AND HORIZONTAL BENDS, SERVICE BOXES AND METERS, VALVES AND HYDRANTS. CALL THE PROJECT ENGINEER AT LEAST 48-HOURS BEFORE BURYING UNDERGROUND PIPE TO ASSURE AND FACILITATE REQUIRED AS-BUILT SURVEY.
- THE CONSTRUCTION OF UNDERGROUND UTILITY LINES SHALL BE SUBJECT TO THE FOLLOWING CRITERIA:
 - NO MORE THAN 500 FEET OF TRENCH SHALL BE OPENED AT ONE TIME.
 - WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF DITCHES.
 - TRENCH DEWATERING DEVICES SHALL DISCHARGE INTO SEDIMENT TRAPS OR SEDIMENT PONDS.
 - WHERE PRACTICAL, INSTALL GRAVITY PIPE UTILITIES PRIOR TO INSTALLATION OF OTHER UTILITIES.
- UTILITY CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS.
- ALL UTILITY TRENCHES IN THE RIGHT OF WAY SHALL BE BACKFILLED WITH ¾-INCH MINUS OR 5/8-INCH MINUS WELL GRADED CRUSHED ROCK.
- TESTING OF NEW WATER LINES, STORM SEWER SYSTEMS SHALL NOT BE PERFORMED UNTIL ALL OTHER ADJACENT UTILITIES HAVE BEEN INSTALLED.
- ALL UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 95% DENSITY IN LIFTS NOT TO EXCEED 24 INCHES WITH A "HOE PACK, OR 8 INCHES WITH HAND-OPERATED COMPACTION."
- OPEN CUTTING OF EXISTING ROADWAYS IS ONLY ALLOWED AS APPROVED AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH THE FERNDALE STANDARD TRENCH DETAIL(S). ALL UTILITY TRENCHES UNDERNEATH AN EXISTING ROADWAY SHALL BE BACKFILLED WITH 150 PSI CONTROLLED DENSITY FILL.
- NO PART OF THE DRAINAGE SYSTEM MAY BE COVERED, CONCEALED, OR PUT INTO USE UNTIL IT HAS BEEN INSPECTED, TESTED, AND ACCEPTED BY THE CITY INSPECTOR.

EARTHWORK:

- THE CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING UN-COMPACTED OR POORLY COMPACTED FILL SOILS WITHIN THE ROAD PRISM AT THE DIRECTION OF THE ENGINEER.
- THE CONTRACTOR SHALL EXCAVATE AND GRADE TO THE ALIGNMENT, GRADE AND CROSS-SECTIONS SHOWN IN THE PLANS OR ESTABLISHED BY THE ENGINEER.
- UNSATURABLE MATERIAL FOUND AND NOT FIT FOR USE AS A SUB-GRADE SHALL BE EXCAVATED TO THE BOUNDARIES SET BY THE ENGINEER AND REPLACED WITH A SUITABLE BACKFILL MATERIAL.
- THE ENGINEER IS REQUIRED TO CERTIFY SUBGRADE, IN WRITING, PRIOR TO PAVING.

BASE COURSES & CRUSHED SURFACING:

- GRAVEL BASES AND BALLAST MATERIAL GRADATION SHALL MEET WSDOT STANDARD SPECIFICATIONS.
- BALLAST, GRAVEL BASE AND CRUSHED SURFACING SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY.
- THE GRADED AND COMPACTED SURFACE OF THE CRUSHED SURFACING TOP COURSE SHALL BE WITHIN ¼ INCH OF FINISHED GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIAL AND COMPACTION TESTING. PRIOR TO IMPORTING OF MATERIAL FOR BASE AND CRUSHED SURFACING TOP COURSE THE CONTRACTOR SHALL PROVIDE EVIDENCE OF SATISFACTORY PASSING GRADING AND DEGRADATION TEST RESULTS TO THE ENGINEER.

STORM DRAINAGE:

- THE FOLLOWING STANDARD DETAILS SHALL BE USED FOR CONSTRUCTION OF STORM DRAIN IMPROVEMENTS:

CATCH BASINS TYPE 1, 1L OR 2	WSDOT STD. DETAILS B-5.20, B-5.40 OR B-10.20
"RESIDENTIAL SERVICE LINE"	COFSD ST-7 (CITY OF FERNDALE STD DETAIL)
CATCH BASINS	
- STORM SEWER PIPE HAVING DIAMETERS GREATER THAN 8" SHALL BE CORRUGATED POLYETHYLENE PIPE (CPEP). ALL OTHER STORM SEWER PIPE SHALL BE PVC.
- ALL CATCH BASIN GRATES SHALL INCLUDE THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS".
- CONTROL DENSITY FILL SHALL BE USED IN AREAS WHERE LESS THAN 18" OF COVER IS MAINTAINED OVER THE PROPOSED STORM PIPES (PIPE IS IN ROAD BASE SECTION), AS SHOWN IN THE PLANS. DUCTILE IRON PIPE MAY BE USED FOR STORM PIPES WITH LESS THAN 18" OF COVER IF APPROVED BY THE CITY.
- COVER OVER PIPES SHALL BE MAINTAINED DURING CONSTRUCTION. DEPTH OF COVER REQUIRED SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS AND WILL VARY WITH THE VEHICLE LOADS TRAVELING OVER THE PIPE. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR DAMAGE TO PIPE DURING CONSTRUCTION ACTIVITIES.
- AT THE END OF ALL SITE CONSTRUCTION, THE CONTRACTOR SHALL CLEAN ALL DEBRIS FROM CATCH BASINS AND STORMWATER CONVEYANCES. DEBRIS SHALL NOT BE ALLOWED TO ENTER STREAMS OR OTHER WATER BODIES.

WATER:

- THE FOLLOWING STANDARD DETAILS SHALL BE USED IN CONSTRUCTING WATER SUPPLY SYSTEM IMPROVEMENTS:

PIPE BEDDING	COFSD W-11
TRENCH BACKFILL	COFSD W-11
FIRE HYDRANT ASSEMBLY	COFSD W-1
THRUST BLOCKING	COFSD W-2, W-3 & W-4
WATER SERVICE	COFSD W-5

- ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS, SECTIONS 702 AND 705 AND THE MOST RECENT VERSION OF WSDOT STANDARD SPECIFICATIONS.
- ALL WATER MAIN PIPE SHALL BE DUCTILE IRON, MINIMUM THICKNESS CLASS 50, PER AWWA STANDARDS H3-71 AND C151-71, WITH CEMENT LINING PER AWWA STANDARD C104-71.
- MATERIAL FOR FITTINGS SUCH AS CROSSES, TEES, BENDS, REDUCERS AND SLEEVES SHALL BE DUCTILE IRON. JOINTS SHALL BE M.J., FLANGED OR PUSH-ON JOINTS AND SHALL CONFORM TO AWWA SPECIFICATIONS C-110-71 AND C-104-71.
- CONCRETE BLOCKING SHALL BE AS SPECIFIED IN CITY OF FERNDALE STANDARD DETAILS W-2, W-3 AND W-4, OR AS DIRECTED BY THE PROJECT ENGINEER. BLOCKS SHALL BE INSTALLED AS SPECIFIED IN SECTION 7-09.3(21) OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE OR MUNICIPAL CONSTRUCTION. NO PRE-CAST BLOCKS ARE ALLOWED.
- CONNECTIONS TO EXISTING WATER MAINS - THE CONTRACTOR MUST NOTIFY THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF A PROPOSED CONNECTION AT LEAST FOUR WORKING DAYS IN ADVANCE.
- ALL HYDROSTATIC TESTING AND DISINFECTION OF WATER MAINS SHALL CONFORM TO SECTION 7-09.3(23) AND SECTION 7-09.3(24) OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE OR MUNICIPAL CONSTRUCTION - CURRENT EDITION. HYDROSTATIC TEST PRESSURE FOR WATER MAIN ACCEPTANCE SHALL BE 250 PSI AND SHALL BE DONE ACCORDING TO CITY OF FERNDALE REQUIREMENTS. THE CITY OF FERNDALE LABORATORY SHALL CONDUCT ALL DISINFECTION TESTS AND BACTERIOLOGICAL TESTS. THE PIPE WILL NOT PASS TESTING UNLESS A ZERO BACTERIAL COUNT IS MEASURED ON TWO CONSECUTIVE TESTS, CONDUCTED 24 HOURS APART.
- BACKFILL SHALL BE GRAVEL BASE, CLASS B, IN ALL STREET RIGHTS-OF-WAY, COMPACTED TO MINIMUM 95% OPTIMUM DENSITY. IN UNIMPROVED AREAS, MINIMUM COMPACTION SHALL BE 90% OF OPTIMUM DENSITY.
- ALL PIPE SHALL HAVE A MINIMUM COVER OF 36".
- ALL VALVES SHALL BE EITHER GATE OR BUTTERFLY TYPE VALVES AND SHALL BE INSTALLED WITH SLIP TYPE CAST IRON VALVE BOXES. GATE VALVES SHALL BE USED FOR LINES 2 INCHES THROUGH 10 INCHES IN DIAMETER. SHORT-BODY VALVES SUITABLE FOR A NON-SHOCK SHUT-OFF PRESSURE OF 130 PSI AND SUITABLE FOR DIRECT BURIAL ARE SPECIFIED. GATE VALVES SHALL BE RESILIENT SEATED IRON-BODY, FULL-BRONZE MOUNTED VALVES CONFORMING TO AWWA C509 AND SUITABLE FOR SERVICE WITH THE TYPE AND CLASS OF PIPE USED. ALL VALVES SHALL HAVE NON-RISING STEMS AND SHALL OPEN COUNTERCLOCKWISE AND SHALL BE EQUIPPED WITH A 2 INCH SQUARE OPERATING NUT. VALVES WILL BE FLANGE OR M.J. JOINTS. VALVE MARKERS SHALL BE LOCATED OUTSIDE OF PAVEMENT SECTIONS.
- WATER SERVICE TAP INSTALLATIONS SHALL MEET THE REQUIREMENTS OF THE COFDS W-5.
- FIRE HYDRANTS AND FIRE MAINS MUST CONFORM TO COFDS- SD W-1 (WSDOT B-19) AND THE FOLLOWING STANDARDS:
 - A FIRE HYDRANTS SHALL HAVE TWO INDIVIDUALLY VALVED 2-1/2" PORTS AND ONE 5-1/4" MAIN VALVE OPENING. A 4-1/2" NST PUMPER NOZZLE AND A 5" STORZ PORT WITH CAP AND AIRCRAFT CABLE SHALL BE SUPPLIED. HYDRANTS SHALL BE M.H. 929T HYDRANTS.
 - FIRE HYDRANTS SHALL HAVE THE STORZ PORT FACING THE REQUIRED ACCESS AND THE BASE FLANGE OF THE HYDRANT MUST NOT VARY MORE THAN 1 FOOT IN ELEVATION FROM THE GRADE LEVEL OF THE REQUIRED ACCESS. THE LOWEST STEM SHALL BE A MINIMUM OF 14" ABOVE THE GROUND.
 - IF THE PUBLIC WORKS DIRECTOR DETERMINES THAT FIRE HYDRANTS ARE VULNERABLE TO VEHICULAR DAMAGE, APPROPRIATE CRASH POSTS SHALL BE PROVIDED. NO OBSTRUCTIONS SHALL EXIST WITHIN A 3-FOOT WORKING AREA OF EACH REQUIRED ACCESS. CRASH POSTS SHALL BE 4" CEMENT-FILLED PIPE A MIN. OF 3' IN HEIGHT WITH A MIN. OF 2" OF PIPE BELOW GRADE. HYDRANT SHUT-OFF VALVES SHALL BE LOCATED BETWEEN 5' AND 20' FROM THE HYDRANT.
 - UNDERGROUND SUPPLIES TO FIRE HYDRANTS MUST BE INSPECTED. SUCH INSPECTION SHALL INCLUDE VISUAL INSPECTION OF PIPING AND HYDROSTATIC PRESSURE TESTING TO A MIN. OF 250 PSI. A FLOW TEST WILL BE REQUIRED WHEN INSTALLATION IS COMPLETE.
 - FIRE HYDRANTS MUST BE MAINTAINED IN AN OPERABLE CONDITION AT ALL TIMES AND MUST BE REPAIRED OR REPLACED WHEN DEFECTIVE. HYDRANTS SHALL BE FULLY OPERABLE BEFORE CONSTRUCTION COMMENCES ABOVE GRADE LEVEL.

ROAD:

- THE FOLLOWING STANDARD DETAILS SHALL BE USED FOR CONSTRUCTION OF THE STANDARD STREET SECTION:

TYPICAL STREET SECTION (PER PROJECT)	
PCC CURB AND GUTTER	COFSD R-9
PCC SIDEWALKS	COFSD R-12 (SEE CONSTRUCTION DOCUMENTS TYPICAL SECTION)
PCC CURB RAMPS	WSDOT STD. DETAIL F-40.
- ROADWAY EXCAVATION WITHIN THE ROADWAY PRISM SHALL BE CUT TO A UNIFORM GRADE. THE COMPLETED SUBGRADE SURFACE SHALL NOT VARY MORE THAN 0.10-FOOT FROM THE LOWER EDGE OF A 16-FOOT STRAIGHTEDGE PLACED ON THE SUBGRADE PARALLEL TO THE CENTERLINE UNLESS APPROVED BY THE ENGINEER.
- THE OWNER SHALL PROVIDE TO THE ENGINEER A REPORT FROM A QUALIFIED GEOTECHNICAL FIRM CERTIFYING THE COMPACTION OF THE GRAVEL BASE UNDER ALL PAVING AREAS.
- ASPHALT CONCRETE PAVEMENT SHALL BE CLASS "B" MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SECTION 5-04, EXCEPT AS MODIFIED HEREIN. CONNECTION TO EXISTING PAVEMENT SHALL BE TO A STRAIGHT NEATLY-TRIMMED LINE.
- CRUSHED ROCK SURFACING FOR PAVEMENT SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION, SECTION 9-03.9(3); BALLAST PER SECTION 9-03.9(1).
- CEMENT CONCRETE SHALL BE CLASS 3000 (WITH AIR ENTRAINMENT) IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION, SECTION 6-02.3(2)B.
- CEMENT CONCRETE SIDEWALK SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS DESIGNATED BY THE ENGINEER IN ACCORDANCE WITH CITY STANDARDS, DRAWING NO. R-12.
- CEMENT CONCRETE DRIVEWAYS SHALL BE 6 INCHES THICK AND CONSTRUCTED WHERE SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER IN ACCORDANCE WITH THE CITY STANDARDS, DRAWING NO. R-15. A 2- INCH LATER OF ¾ INCH DRAIN ROCK SHALL BE USED FOR DRIVEWAY BEDDING.
- CEMENT CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED WHERE SHOWN ON THE PLANS OR AS DESIGNED BY THE ENGINEER, IN ACCORDANCE WITH WSDOT STANDARDS SPECIFICATIONS, SECTION 8-04 AND CITY OF FERNDALE STANDARDS, DRAWING R-8 AND R-9. HANDICAP RAMPS SHALL BE CONSTRUCTED PER WSDOT STANDARD PLANS F-40. WHERE NEW CEMENT CONCRETE CURB AND GUTTER IS CONNECT TO EXISTING CURB AND GUTTER, ASSURE THAT NO ABRUPT OFFSETS IN LINE OR GRADE SHALL BE CONSTRUCTED WHICH WILL BE UNSIGHTLY OR IMPEDE FLOW IN THE GUTTER LINE.
- PAVEMENT:
 - SOIL RESIDUAL HERBICIDE SHALL BE PLACED WITHIN 24 HOURS OF PAVING.
 - A TACK COAT OF ASPHALT SHALL BE APPLIED BETWEEN ALL COURSES OF ASPHALT.
 - ALL PAVEMENT REPAIR SHALL BE SAW-CUT BEFORE REMOVAL. AR-4000W SHALL BE APPLIED TO ALL EDGES OF EXISTING PAVEMENT. WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE APPLICANT SHALL PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. CONTRACTOR SHALL COLD PLANE PER DIMENSIONS SPECIFIED ON THE PLANS, AND INSTALL A MINIMUM 2-FOOT WIDE PETROTAC PAVING FABRIC, OR EQUIVALENT, OVER JOINT BETWEEN PAVING LIFTS.
- THRU-CURB BASINS AND THRU-CURB INLETS CONFORMING TO THE WSDOT STANDARD SPECIFICATIONS, SECTION 7-05 SHALL BE CONSTRUCTED AT THE LOW POINT OF THE CURB FLOW LINES AND TO THE LOCATIONS, DIMENSIONS, AND DETAILS AS SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER AND CITY STANDARDS, DRAWING NO. R-8.
- TRENCH EXCAVATIONS, BEDDING AND PIPE FOR STORMWATER PIPE LAYING SHALL BE IN ACCORDANCE WITH THE WSDOT STANDARD SPECIFICATIONS, SECTION 7-08.
- STORM SEWER PIPE CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION, SECTION 7-04. MATERIAL SHALL BE HANCOR SURE-LOK F477 PIPE OR CITY APPROVED EQUAL. LOTS' STORM DRAIN SERVICE LINE SHALL BE 6" PVC PER WSDOT STANDARD SPECIFICATION, SECTION 9-05.1(5)
- PERFORATED UNDERDRAIN PIPE SHALL MEET THE WSDOT STANDARD SPECIFICATION 7-01.3(2).

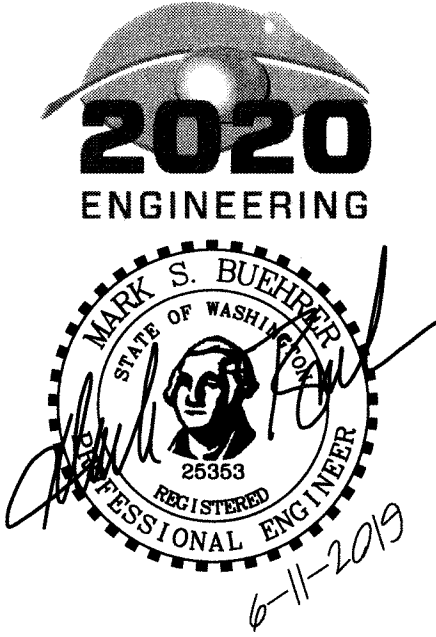
SANITARY SEWER SYSTEMS:

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE STANDARD SPECIFICATIONS AND DETAILS, A.P.W.A. STANDARD SPECIFICATIONS, AND WSDOT STANDARD SPECIFICATIONS, MOST RECENT EDITIONS. SANITARY SEWER SYSTEM INSTALLATION, BOTH PUBLIC AND PRIVATE, IS SUBJECT TO CITY REVIEW AND APPROVAL.
- ALL WORK MUST BE INSPECTED TO THE SATISFACTION OF THE CITY OF FERNDALE. 24 HOUR NOTICE MUST BE GIVEN PRIOR TO STARTING WORK. TESTING OF THE SEWER SYSTEM AND ALL CONNECTIONS TO EXISTING MAINS SHALL BE PERFORMED IN THE PRESENCE AND UNDER THE SUPERVISION OF A CITY OF FERNDALE REPRESENTATIVE.
- SANITARY SEWER MAINS SHALL BE A MINIMUM 8 INCH DIAMETER PVC PIPE (SDR-35) CONFORMING TO THE PROVISIONS OF ASTM D 3034 AND INSTALLED TO CITY SPECIFICATIONS.
- SANITARY SEWER PIPE BEDDING SHALL BE PEA GRAVEL PER COFSD SS-1. ALL TRENCHES SHALL BE BACKFILLED WITH CLASS B BANK RUN GRAVEL WITHIN CITY RIGHT OF WAY AND TRAVELED WAYS OUTSIDE OF RIGHT OF WAY (ACCESS EASEMENTS) AND SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% MODIFIED PROCTOR. USE OF SUITABLE NATIVE BACKFILL OUTSIDE OF TRAVELED WAY SHALL BE SUBJECT TO APPROVAL BY THE CITY.
- ALL MANHOLES SHALL BE INSTALLED PER CITY OF FERNDALE STANDARD DETAILS AND SHALL BE PRE-CHANNELED. MANHOLE CONES ARE TO BE OFFSET SUCH THAT LADDER RUNGS ARE PARALLEL TO THE FLOW.
- ALL SIDE SEWERS SHALL BE INSTALLED PER CITY OF FERNDALE STANDARD DETAILS SS-6, SS-8 OR SS-13, EXCEPT THAT SINGLE SIDE SEWERS SHALL HAVE A MINIMUM DIAMETER OF 4".
- CONTRACTOR SHALL EXTEND SEWER STUBS 5 FT BEYOND UTILITY CORRIDOR OR 15 FEET BEYOND RIGHT-OF-WAY LINE.
- EACH SIDE SEWER STUB SHALL BE CAPPED WITH A WATERTIGHT PLUG. EACH STUB SHALL BE MARKED FOR LOCATION WITH A 2" DIA. PVC PIPE (MIN. SCHEDULE 40) WITH THE TOP 18" GREEN AND STENCILED WITH THE WORD "SEWER" AND THE PIPE INVERT INDICATED. THE LOCATION MARKER SHALL BE CONNECTED TO THE SERVICE STUB BY A #12 COPPER WIRE.

ENGINEER'S CERTIFICATION:

I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR THE UNITY CARE NW - FERNDALE PROJECT HAVE BEEN INSPECTED BY MARK BUEHRER AND HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE.

RMC ARCHITECTS



Unity Care NW
Unity Care NW - Ferndale
6044 Portal Way
Ferndale, WA

Job No: --	Date: 2019-4-12
File No:	
Drawn By:	B. GIBSON
	H. CRUISE
Checked By:	M. BUEHRER
Issued For:	PROJECT RECORD
1 BID SET	2017-03-01
2 CONSTRUCTION SET	2018-01-15
3 BID CLARIFICATIONS	2018-02-06
4 AS BUILT SET	2019-06-11

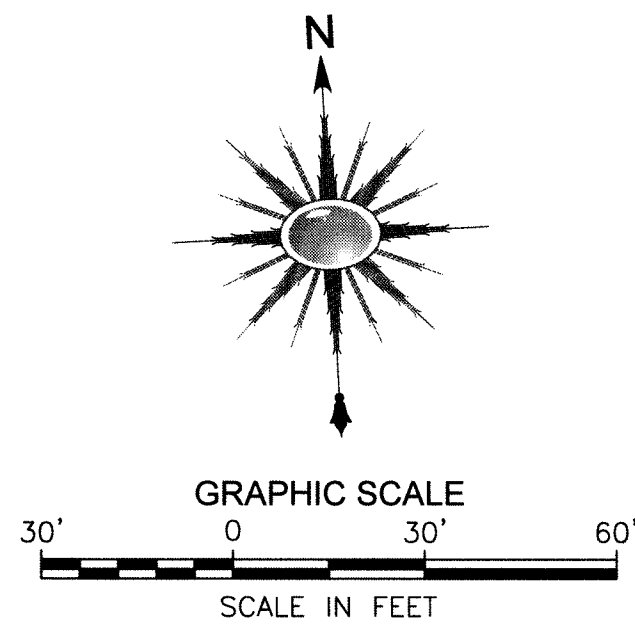
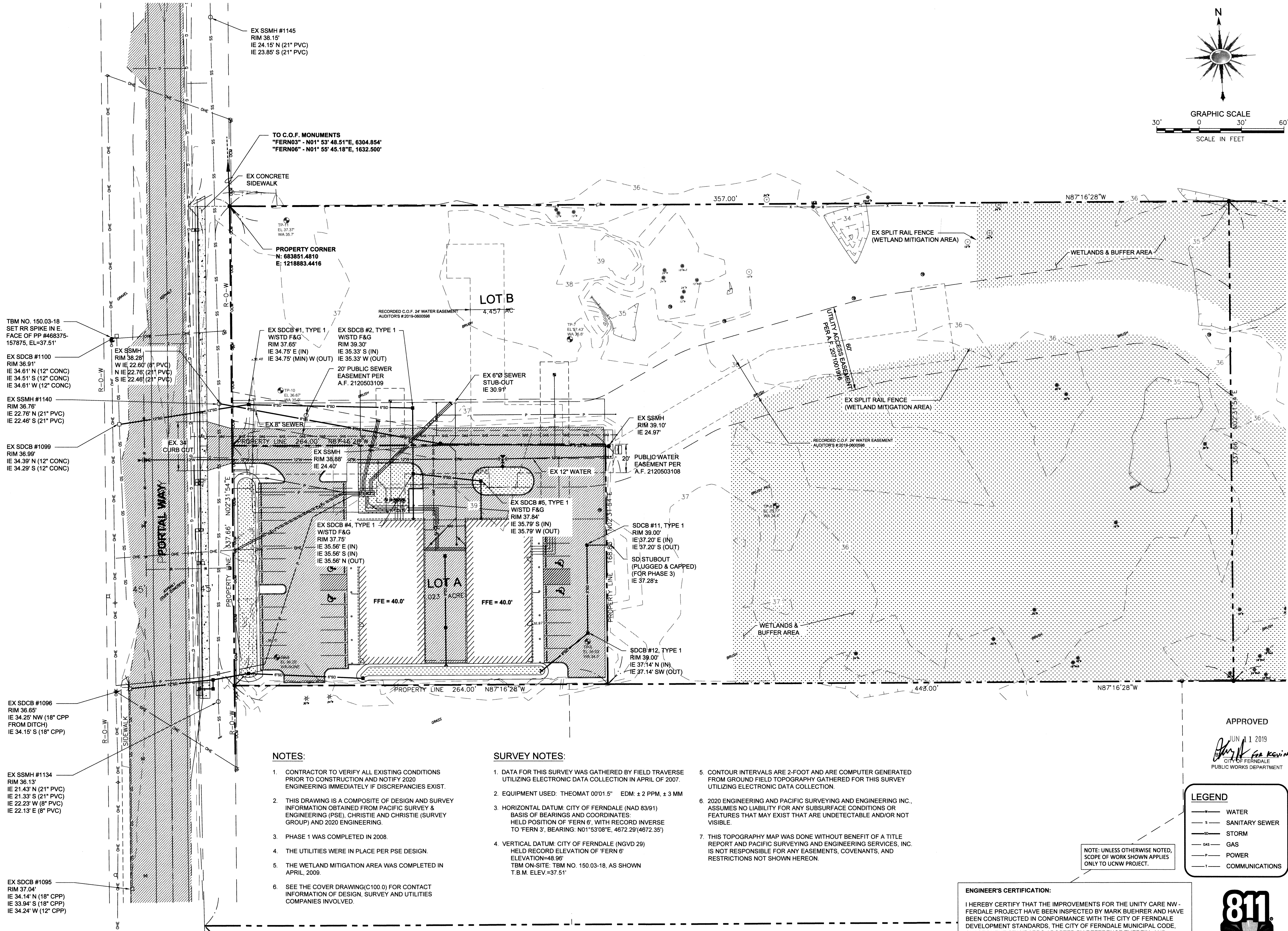
GENERAL NOTES

C110

APPROVED
11 2019
Mark Buehrer
CITY OF FERNDALE
PUBLIC WORKS DEPARTMENT



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NOTES:

- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY 2020 ENGINEERING IMMEDIATELY IF DISCREPANCIES EXIST.
- THIS DRAWING IS A COMPOSITE OF DESIGN AND SURVEY INFORMATION OBTAINED FROM PACIFIC SURVEY & ENGINEERING (PSE), CHRISTIE AND CHRISTIE (SURVEY GROUP) AND 2020 ENGINEERING.
- PHASE 1 WAS COMPLETED IN 2008.
- THE UTILITIES WERE IN PLACE PER PSE DESIGN.
- THE WETLAND MITIGATION AREA WAS COMPLETED IN APRIL, 2009.
- SEE THE COVER DRAWING(C100.0) FOR CONTACT INFORMATION OF DESIGN, SURVEY AND UTILITIES COMPANIES INVOLVED.

SURVEY NOTES:

- DATA FOR THIS SURVEY WAS GATHERED BY FIELD TRAVERSE UTILIZING ELECTRONIC DATA COLLECTION IN APRIL OF 2007.
- EQUIPMENT USED: THEOMAT 00'01.5" EDM: ± 2 PPM, ± 3 MM
- HORIZONTAL DATUM: CITY OF FERDALE (NAD 83/91) BASIS OF BEARINGS AND COORDINATES: HELD POSITION OF 'FERN 6', WITH RECORD INVERSE TO 'FERN 3', BEARING: N01°53'08"E, 4672.29/(4672.35')
- VERTICAL DATUM: CITY OF FERDALE (NGVD 29) HELD RECORD ELEVATION OF 'FERN 6' ELEVATION=48.96' TBM ON-SITE: TBM NO. 150.03-18, AS SHOWN T.B.M. ELEV.=37.51'
- CONTOUR INTERVALS ARE 2-FOOT AND ARE COMPUTER GENERATED FROM GROUND FIELD TOPOGRAPHY GATHERED FOR THIS SURVEY UTILIZING ELECTRONIC DATA COLLECTION.
- 2020 ENGINEERING AND PACIFIC SURVEYING AND ENGINEERING INC., ASSUMES NO LIABILITY FOR ANY SUBSURFACE CONDITIONS OR FEATURES THAT MAY EXIST THAT ARE UNDETECTABLE AND/OR NOT VISIBLE.
- THIS TOPOGRAPHY MAP WAS DONE WITHOUT BENEFIT OF A TITLE REPORT AND PACIFIC SURVEYING AND ENGINEERING SERVICES, INC. IS NOT RESPONSIBLE FOR ANY EASEMENTS, COVENANTS, AND RESTRICTIONS NOT SHOWN HEREON.

APPROVED

JUN 11 2019
Mark S. Buehrer
CITY OF FERDALE
PUBLIC WORKS DEPARTMENT

LEGEND

- WATER
- SANITARY SEWER
- STORM
- GAS
- POWER
- COMMUNICATIONS

NOTE: UNLESS OTHERWISE NOTED, SCOPE OF WORK SHOWN APPLIES ONLY TO UCNW PROJECT.

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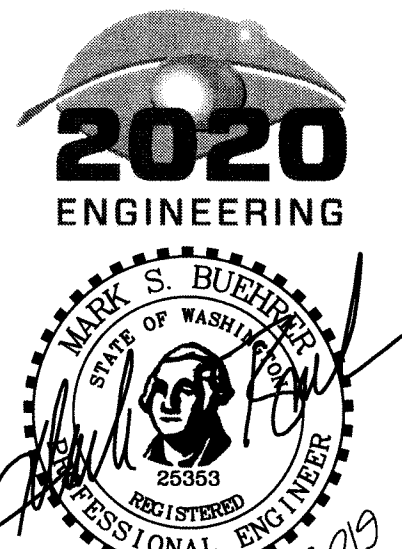


Unity Care NW
Unity Care NW - Ferndale
6044 Portal Way
Ferndale, WA

Job No:	Date:
File No:	2019-4-12
Drawn By:	B. GIBSON
Checked By:	H. CRUISE
Issued For:	M. BUEHRER
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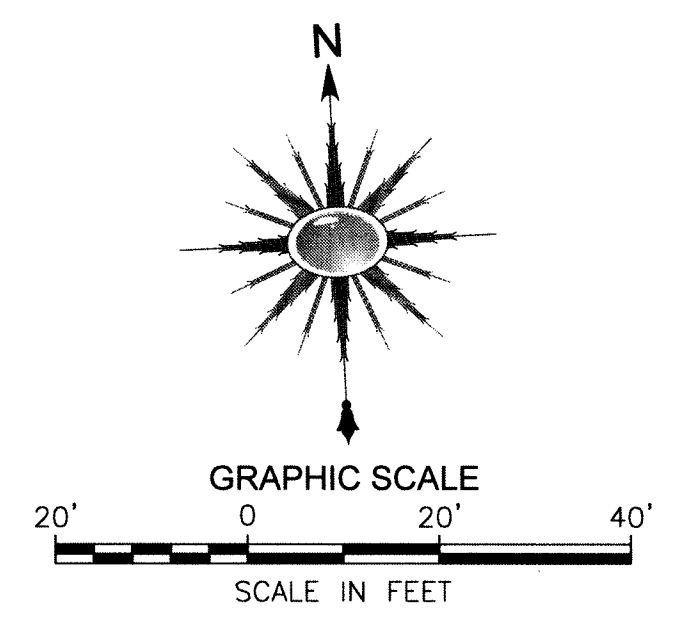
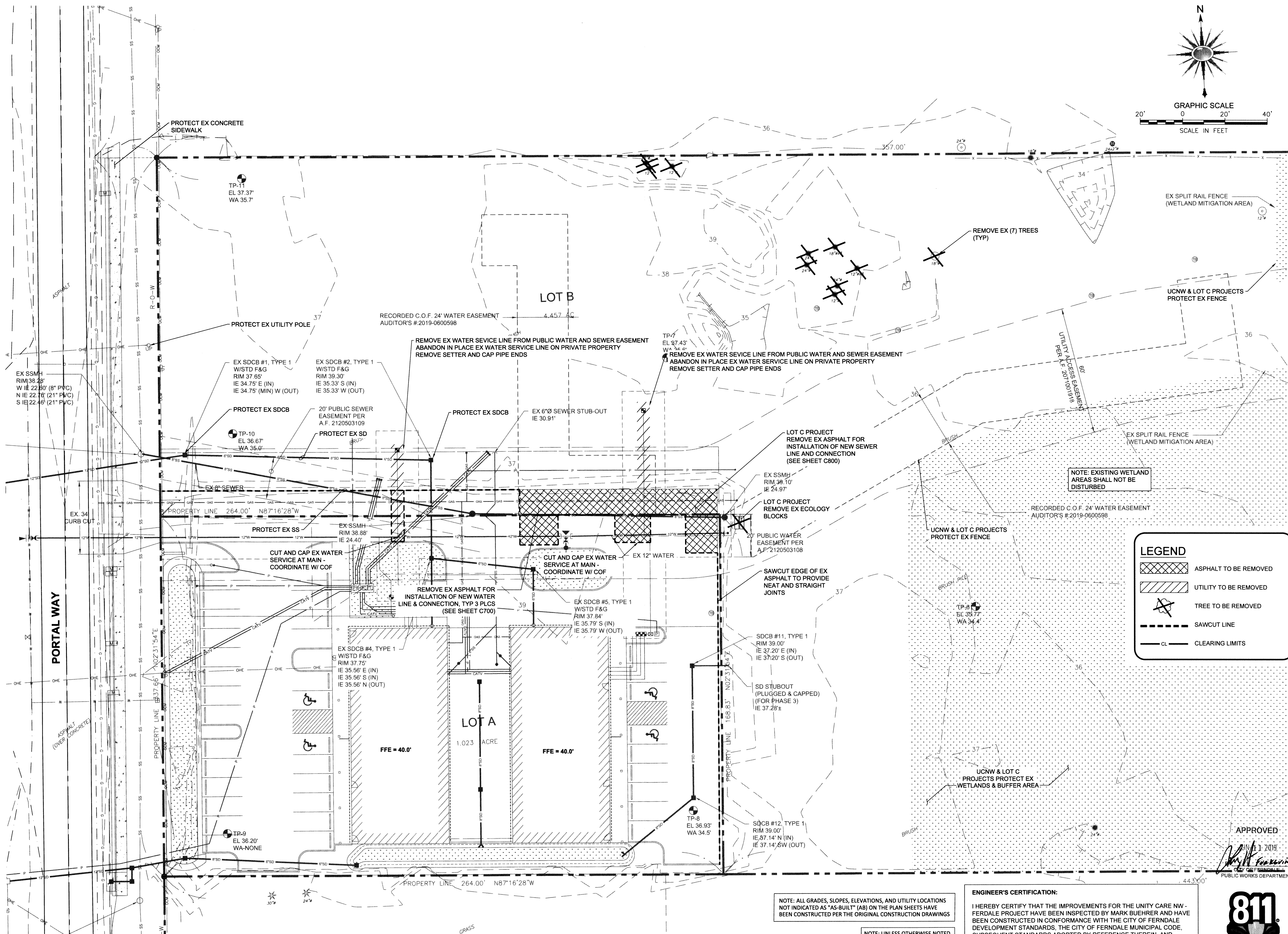
EXISTING
SITE PLAN

C200



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LEGEND

- ASPHALT TO BE REMOVED
- UTILITY TO BE REMOVED
- TREE TO BE REMOVED
- SAWCUT LINE
- CLEARING LIMITS

NOTE: ALL GRADES, SLOPES, ELEVATIONS, AND UTILITY LOCATIONS NOT INDICATED AS "AS-BUILT" (AB) ON THE PLAN SHEETS HAVE BEEN CONSTRUCTED PER THE ORIGINAL CONSTRUCTION DRAWINGS

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APPROVED

Mark S. Buehrer
Professional Engineer
No. 20353
6-11-2019

811
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2020 ENGINEERING

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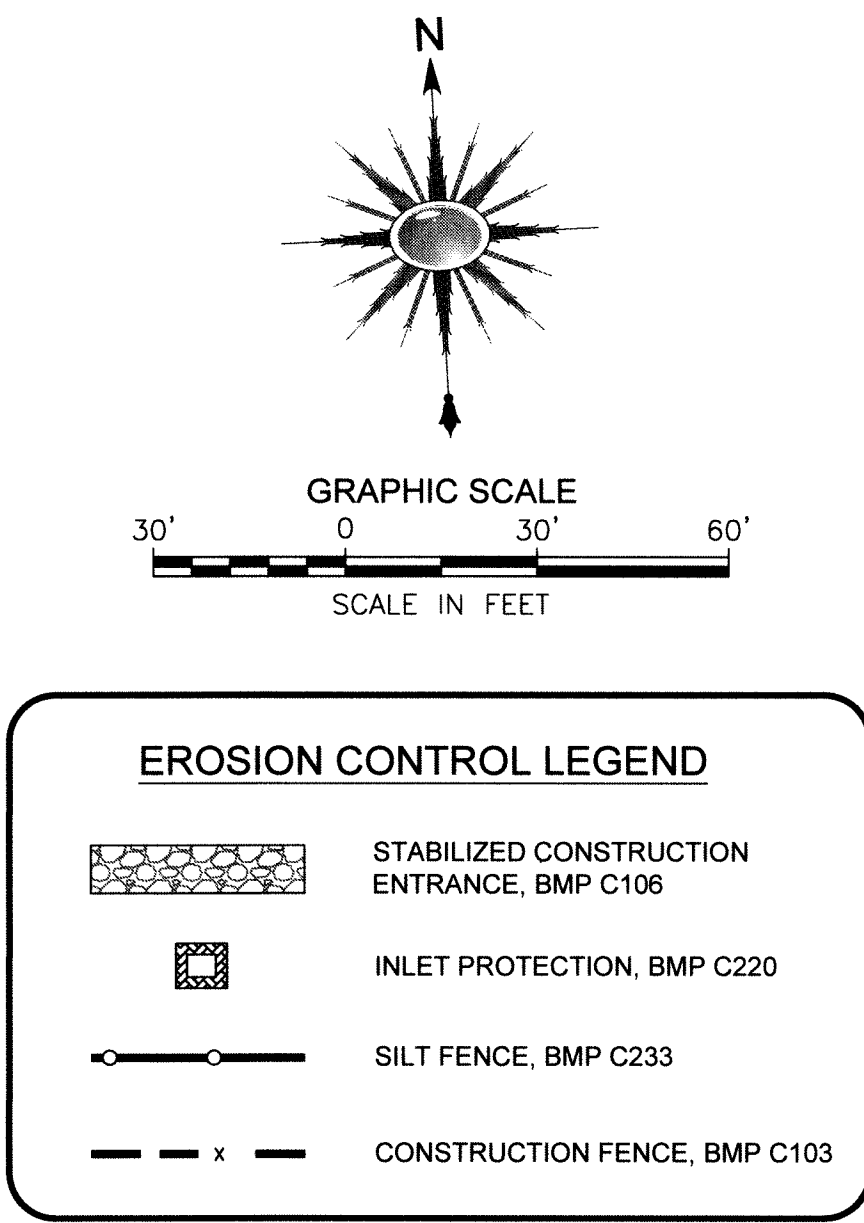
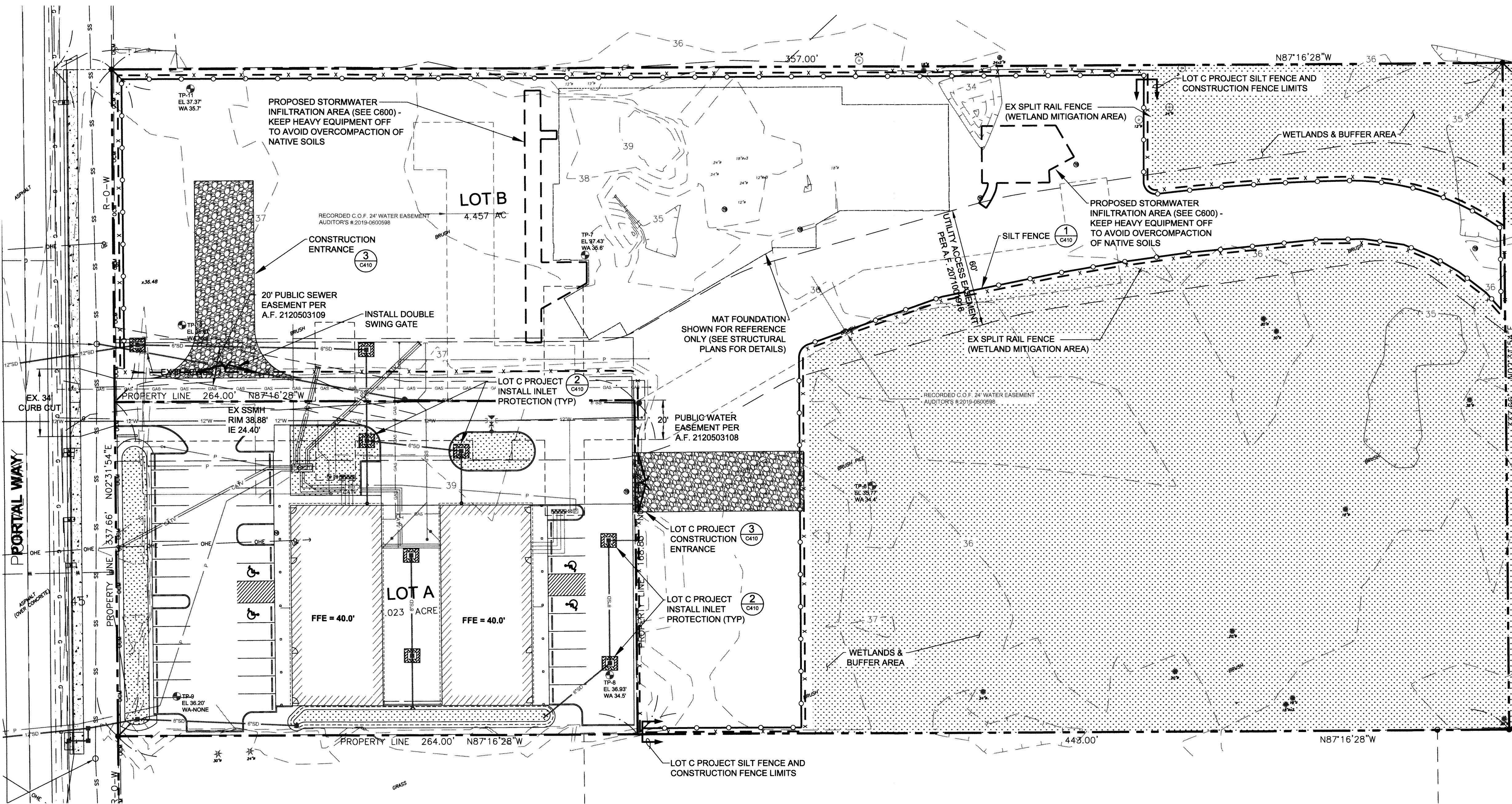
Job No: _____ Date: 2019-4-12
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Drawn By: B. GIBSON
Checked By: H. CRUISE
M. BUEHRER
Issued For: PROJECT RECORD

1	BID SET	2017-03-01
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3	BID CLARIFICATIONS	2018-02-06
4	AS BUILT SET	2019-06-11

DEMO PLAN

C300

00669.004 06/21/19 KB



EROSION AND SEDIMENT CONTROL NOTES:

- FROM OCTOBER 1 THROUGH APRIL 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN TWO DAYS. FROM MAY 1 THROUGH SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN SEVEN DAYS.
- SOIL SHALL BE MANAGED IN A MANNER THAT DOES NOT PERMANENTLY COMPACT OR DETERIORATE THE FINAL SOIL AND LANDSCAPE SYSTEM. IF DISTURBANCE AND/OR COMPACTION OCCUR THE IMPACT MUST BE CORRECTED AT THE END OF THE CONSTRUCTION ACTIVITY. THIS SHALL INCLUDE THE RESTORATION OF SOIL DEPTH, SOIL QUALITY, PERMEABILITY, AND PERCENT ORGANIC MATTER. CONSTRUCTION PRACTICES MUST NOT CAUSE DAMAGE TO OR COMPROMISE THE DESIGN OF PERMANENT LANDSCAPE OR INFILTRATION AREAS.
- LOCATE ANY SOIL PILES AWAY FROM DRAINAGE SYSTEMS. SOIL PILES SHOULD BE TARPED OR MULCHED UNTIL THE SOIL IS EITHER USED OR REMOVED. PILES SHOULD BE SITUATED SO THAT SEDIMENT DOES NOT RUN INTO THE STREET OR ADJOINING YARDS.
- REMOVE EXCESS SOIL FROM THE SITE AS SOON AS POSSIBLE AFTER BACKFILLING. THIS WILL ELIMINATE ANY SEDIMENT LOSS FROM SURPLUS FILL.
- THE CONSTRUCTION ENTRANCE SHALL BE STABILIZED WHERE TRAFFIC WILL BE LEAVING THE CONSTRUCTION SITE AND TRAVELING ON PAVED ROADS OR OTHER PAVED SURFACES.
- PROVIDE FOR PERIODIC STREET CLEANING TO REMOVE ANY SEDIMENT THAT MAY HAVE BEEN TRACKED OUT. SEDIMENT SHOULD BE REMOVED BY SHOVELING OR SWEEPING AND CAREFULLY REMOVED TO A SUITABLE DISPOSAL AREA WHERE IT WILL NOT BE RE-ERODED. STREET WASHING IS PROHIBITED WITHOUT SPECIAL PERMISSION FROM CITY OF FERNDALE PUBLIC WORKS DEPARTMENT.
- SAWCUTTING SLURRY, CUTTINGS, AND PROCESS WATER SHALL NOT DRAIN TO ANY NATURAL OR CONSTRUCTED DRAINAGE CONVEYANCE. COLLECTED SLURRY AND CUTTINGS SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS. CLEANING WASTE MATERIAL AND DEMOLITION DEBRIS SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF WATER. IF THE AREA IS SWEEPED WITH A PICK-UP SWEEPER, THE MATERIAL MUST BE HAULED OUT OF THE AREA TO AN APPROPRIATE DISPOSAL SITE.
- CONCRETE TRUCK CHUTES, PUMPS, AND INTERNALS SHALL BE WASHED OUT ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE OR ASPHALT. UNUSED CONCRETE REMAINING IN THE TRUCK AND PUMP SHALL BE RETURNED TO THE ORIGINAL BATCH PLANT FOR RECYCLING. HAND TOOLS SHALL BE WASHED OFF ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE OR ASPHALT. WHEN NO FORMED AREAS ARE AVAILABLE, WASHWATER AND LEFTOVER PRODUCT SHALL BE CONTAINED IN A LINED CONTAINER. CONTAINED CONCRETE SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.
- OPERATIONAL SOURCE CONTROL BMPs:
 - ASSIGN ONE OR MORE INDIVIDUALS TO BE RESPONSIBLE FOR STORMWATER POLLUTION CONTROL. HOLD REGULAR MEETINGS TO REVIEW THE OVERALL OPERATION OF THE BMPs. ESTABLISH RESPONSIBILITIES FOR INSPECTIONS, OPERATION AND MAINTENANCE, AND AVAILABILITY FOR EMERGENCY SITUATIONS. TRAIN ALL TEAM MEMBERS IN THE OPERATION, MAINTENANCE AND INSPECTIONS OF BMPs, AND REPORTING PROCEDURES.
 - PROMPTLY CONTAIN AND CLEAN UP SOLID AND LIQUID POLLUTANT LEAKS AND SPILLS INCLUDING OILS, SOLVENTS, FUELS, AND DUST FROM MANUFACTURING OPERATIONS ON ANY EXPOSED SOIL, VEGETATION, OR PAVED AREA.
 - SWEEP PAVED MATERIAL HANDLING AND STORAGE AREAS REGULARLY AS NEEDED, FOR THE COLLECTION AND DISPOSAL OF DUST AND DEBRIS THAT COULD CONTAMINATE STORMWATER. DO NOT HOSE DOWN POLLUTANTS FROM ANY AREA TO THE GROUND, STORM DRAIN, CONVEYANCE DITCH, OR RECEIVING WATER UNLESS NECESSARY FOR DUST CONTROL PURPOSES TO MEET AIR QUALITY REGULATIONS AND UNLESS THE POLLUTANTS ARE CONVEYED TO A TREATMENT SYSTEM APPROVED BY THE LOCAL JURISDICTION.
 - PROMPTLY REPAIR OR REPLACE ALL LEAKING CONNECTIONS, PIPES, HOSES, VALVES, ETC. WHICH CAN CONTAMINATE STORMWATER.
- ALL DISTURBED AREAS SHALL BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS (BMP REFERENCES MADE TO THE 2005 DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON):
 - STABILIZED CONSTRUCTION ENTRANCE (BMP C105) INCLUDING SIGNS (AS NEEDED) TO PROHIBIT MUDDY TIRE TRAFFIC OVER NEW PAVEMENTS WHICH MAY REMAIN IN PLACE AS DEEMED NECESSARY TO PROTECT POROUS PAVEMENTS.
 - TEMPORARY AND PERMANENT SEEDING (BMP C120).
 - PLASTIC COVERING (BMP C123).
 - APPLICATION OF 12" (MIN.) OF CLEAN, FREE DRAINING SOILS -- FREE FROM SILTS AND CLAYS.

CONSTRUCTION SEQUENCING:

- INSTALL STABILIZED CONSTRUCTION ENTRANCE, INLET PROTECTION, SILT FENCING, AND CONSTRUCTION FENCING BMPs.
- MAINTAIN ALL TEMPORARY EROSION CONTROL BMPs AND IMPLEMENT DUST CONTROL BMPs AS NECESSARY THROUGH ENTIRE DURATION OF ALL CONSTRUCTION ACTIVITIES.
- CONSTRUCT TEMPORARY LEVEL SPREADER BMP AT PROPOSED LOCATION.
- CONSTRUCT ROADWAYS, UTILITIES, AND ASSOCIATED IMPROVEMENTS WHILE DIRECTING STORMWATER RUNOFF FROM DEVELOPMENT TO FLOW SPREADER.
- STABILIZE ALL DISTURBED SOILS WITH APPLICABLE BMPs AND MAINTAIN UNTIL VEGETATION IS FULLY ESTABLISHED.
- REMOVE REMAINING INLET PROTECTION, SILT FENCING, FLOW SPREADER AND CONSTRUCTION FENCING BMPs UPON FINAL SITE STABILIZATION.

NOTE: ALL GRADES, SLOPES, ELEVATIONS, AND UTILITY LOCATIONS NOT INDICATED AS "AS-BUILT" (AB) ON THE PLAN SHEETS HAVE BEEN CONSTRUCTED PER THE ORIGINAL CONSTRUCTION DRAWINGS

NOTE: UNLESS OTHERWISE NOTED, SCOPE OF WORK SHOWN APPLIES ONLY TO UCNW PROJECT.

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APPROVED

JUN 11 2019
Mark S. Buehrer
Professional Engineer
City of Ferndale
Public Works Department



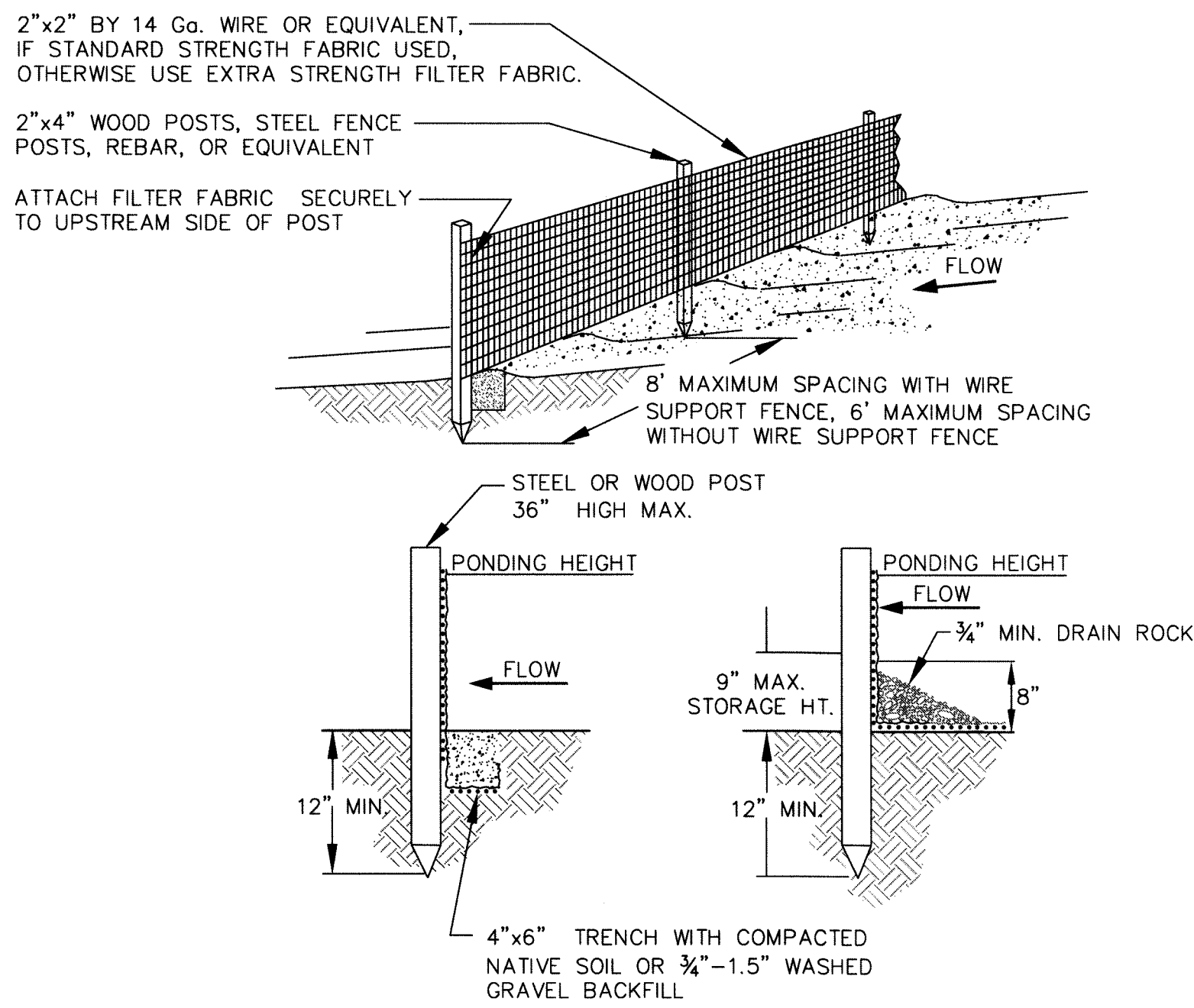
Unity Care NW
Unity Care NW - Ferndale
6044 Portal Way
Ferndale, WA

T.E.S.C.
PLAN

C400

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2020 ENGINEERING
Mark S. Buehrer
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6-11-2019

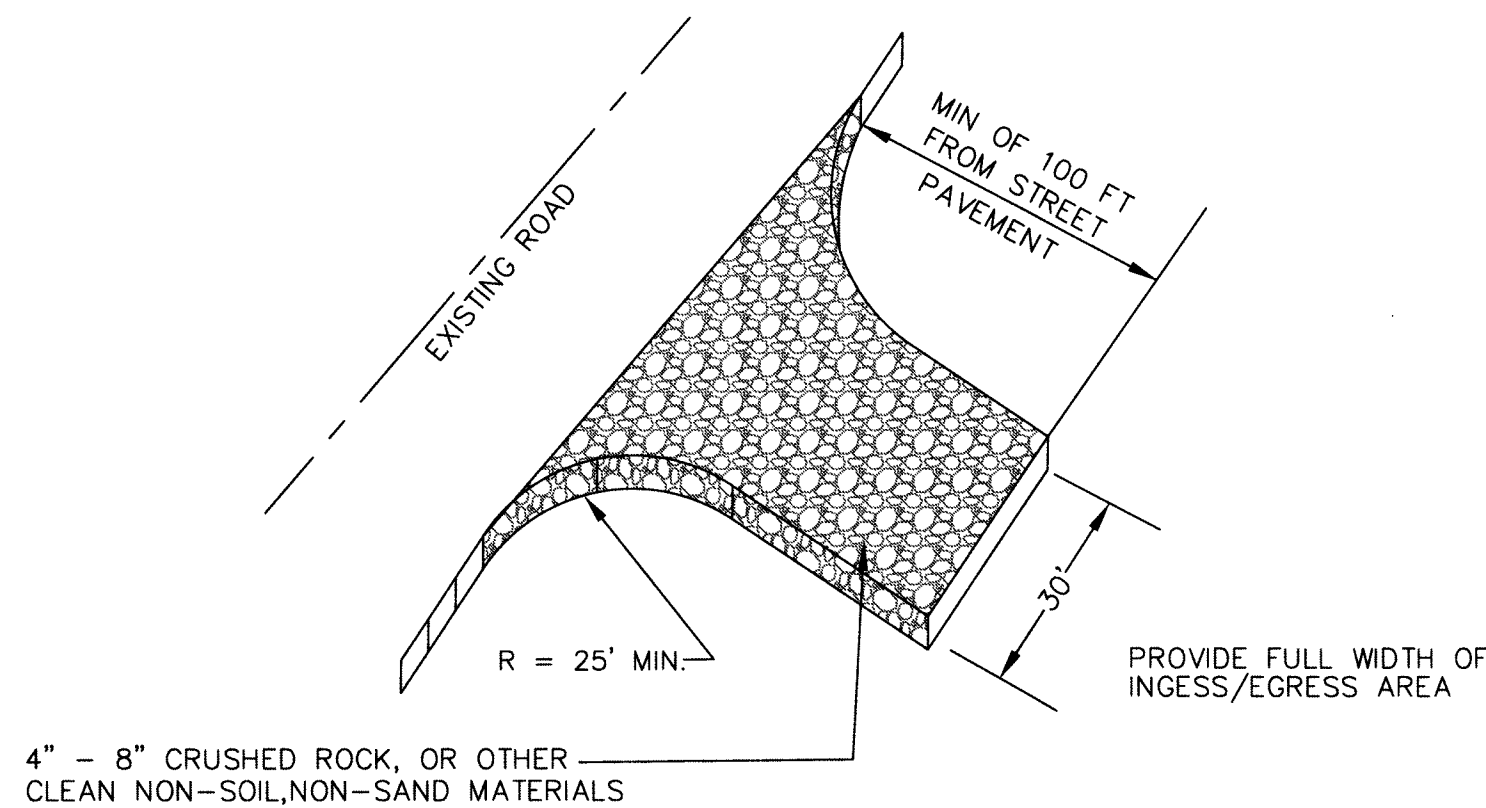


TRENCH DETAIL **INSTALLATION WITHOUT TRENCHING**

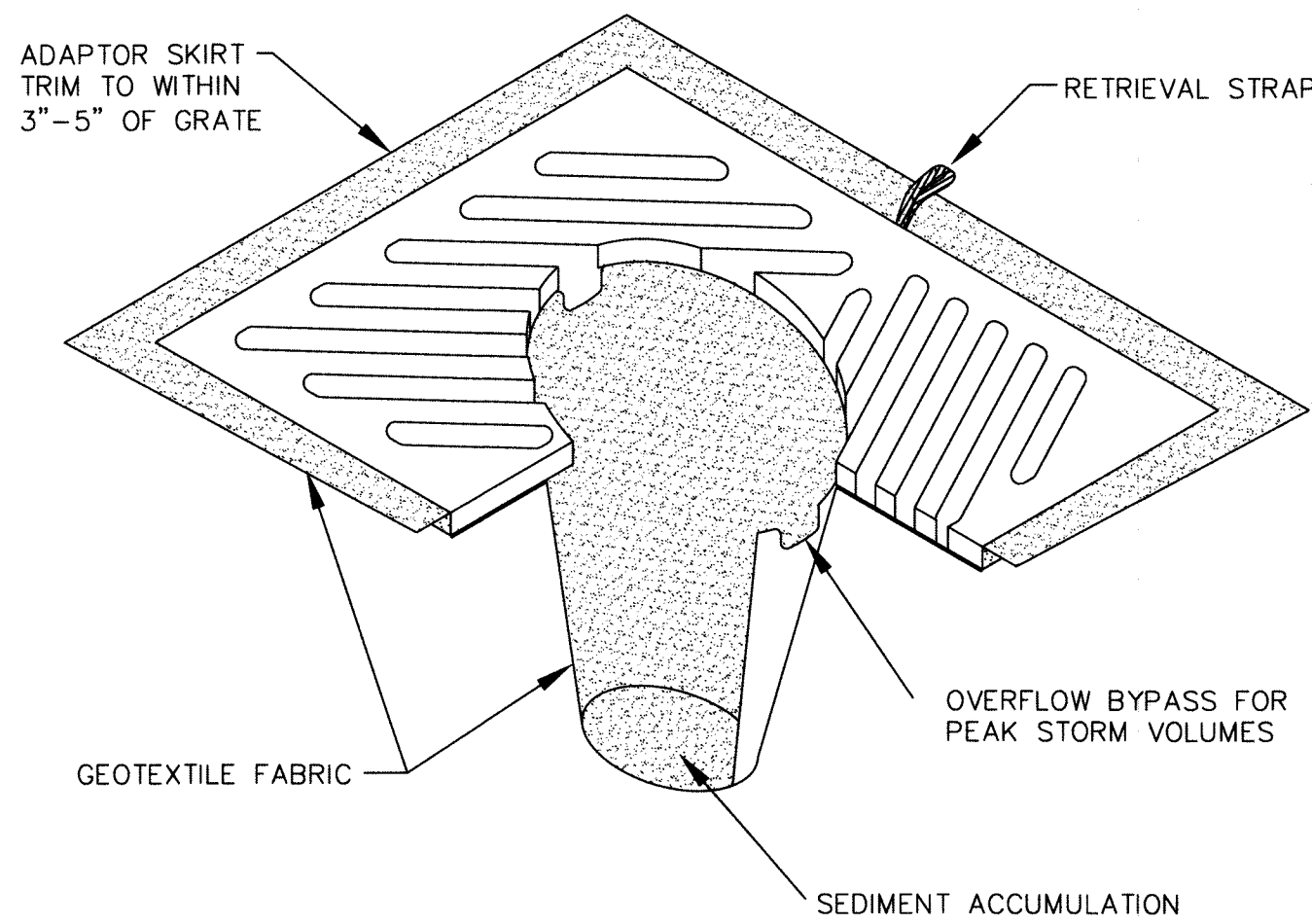
NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
4. JOINTS IN FILTER FABRIC SHALL BE SPLICED AT POSTS. USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO POSTS.

1 EROSION CONTROL SILT FENCE DETAIL
C400 NTS



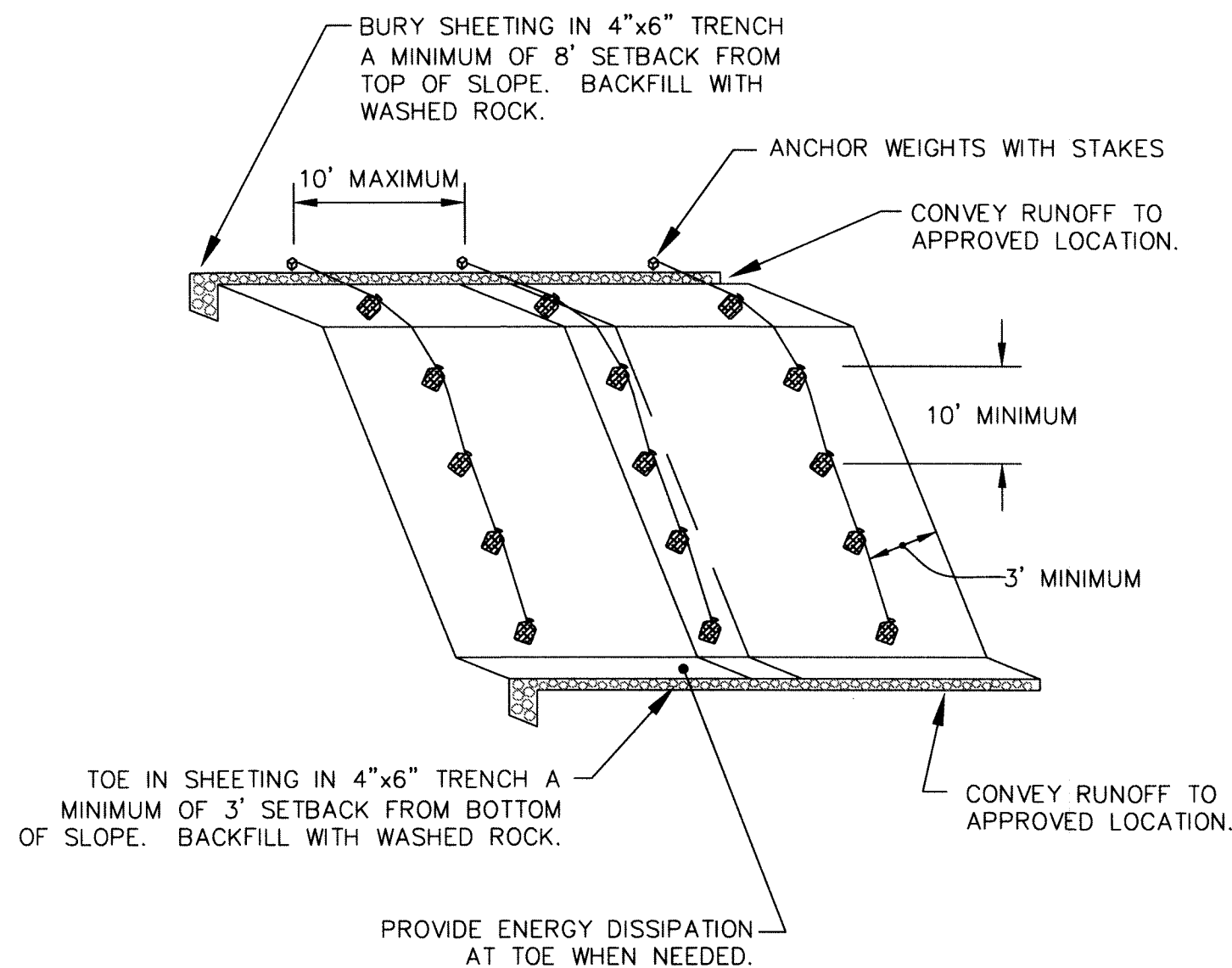
3 CONSTRUCTION ENTRANCE
C400 NTS NTS



NOTES:

1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

2 CATCH BASIN INSERT
C400 NTS



NOTES:

1. TIRES, SANDBAGS, OR EQUIVALENT MAY BE USED TO WEIGH DOWN PLASTIC SHEETING.
2. SEAMS BETWEEN SHEETS MUST OVERLAP A MINIMUM OF 12" AND BE WEIGHTED OR TAPED.
3. PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MIL.
4. DUE TO RAPID RUNOFF CAUSED BY PLASTIC SHEETING, THIS METHOD SHALL NOT BE USED UPSLOPE OF AREAS THAT MIGHT BE ADVERSELY IMPACTED BY CONCENTRATED RUNOFF.
5. CONSTRUCT BERM OR SWALE AT TOP OF SLOPE AS DIRECTED BY THE CLEARING AND GRADING INSPECTOR.
6. CONSTRUCT DITCH AT BASE OF SLOPE AS REQUIRED BY CITY, AND DISCHARGE TO APPROVED LOCATION.

4 PLASTIC COVERING
C400 NTS

TEMPORARY EROSION/SEDIMENTATION CONTROL:

1. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
2. APPROVAL OF THESE TEMPORARY EROSION/SEDIMENTATION CONTROL (TESC) PLANS DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
3. THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
4. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
5. THE TESC FACILITIES SHOWN ON THE PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
6. THE TESC FACILITIES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.
7. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
8. ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 7 DAYS, SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED TESC METHODS (E.G., SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.).
9. ANY AREA NEEDING TESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
10. THE TESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
11. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
12. STABILIZED CONSTRUCTION ENTRANCES AND WASH PADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
13. DURING THE TIME PERIOD OF OCTOBER 1 THROUGH APRIL 30, ALL PROJECT DISTURBED AREAS GREATER THAN 5,000 SQUARE FEET, THAT ARE TO BE LEFT UNWORKED FOR MORE THAN 12 HOURS, SHALL BE COVERED BY ONE OF THE FOLLOWING COVER MEASURES: MULCH, SODDING OR PLASTIC COVERING.
14. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN.
15. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (E.G. ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
16. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO INCHES.
17. ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6 INCHES MUST HAVE SLOPES NOT STEEPER THAN 3H:1V.
18. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
19. EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS IN THESE PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CITY INSPECTOR.

NPDES AND CESCL NOTES:

1. THE CONTRACTOR SHALL KEEP A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE IMPLEMENTED.
2. ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED BY A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) AND/OR NPDES INSPECTOR, MAINTAINED AND REPAIRED BY THE CONTRACTOR AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL ON SITE EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD. AN INSPECTION REPORT FILE SHALL BE MAINTAINED BY THE CONTRACTOR AND THE CESCL.

FILTER FENCE NOTES:

1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.
2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED AT A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
3. A TRENCH SHALL BE EXCAVATED, ROUGHLY 8 INCHES WIDE AND 12 INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED.
4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG. TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE 5 APPLYING.
7. THE TRENCH SHALL BE BACKFILLED WITH 3/4-INCH MINIMUM DIAMETER WASHED GRAVEL.
8. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
9. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SEEDING NOTES:

1. SEEDBED PREPARATION MAY INCLUDE THE FOLLOWING:
 - A. IF INFERTILE OR COARSE TEXTURED SUBSOIL WILL BE EXPOSED DURING GRADING, STOCKPILE TOPSOIL AND RE-SPREAD IT OVER THE FINISHED SLOPE AND ROLL IT TO PROVIDE A FIRM BASE.
 - B. IF CONSTRUCTION FILLS HAVE LEFT SOIL EXPOSED WITH A LOOSE, ROUGH OR IRREGULAR SURFACE, TRACK WALK UP SLOPE.
 - C. IF CUTS OR CONSTRUCTION EQUIPMENT HAVE LEFT A TIGHTLY COMPACTED SURFACE, BREAK WITH CHISEL PLOW OR OTHER SUITABLE EQUIPMENT.
 - D. PERFORM ALL CULTURAL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPES (CONTOURED), THE SEEDBED SHOULD BE FIRM WITH A FAIRLY FINE SURFACE AFTER ROUGHENING.
2. FERTILIZATION - AS PER SUPPLIER'S RECOMMENDATIONS. DEVELOPMENTS ADJACENT TO WATER BODIES MUST USE NON-PHOSPHOROUS FERTILIZER.
3. HYDROSEEDING APPLICATIONS WITH APPROVED SEED-MULCH-FERTILIZER MIXTURES MAY ALSO BE USED.
4. SEEDING - APPLY APPROPRIATE MIXTURE TO THE PREPARED SEEDBED AT A RATE OF 120 LBS/ACRE. COVER THE SEED WITH TOPSOIL OR MULCH NO DEEPER THAN ONE-HALF INCH.

TEMPORARY EROSION CONTROL SEED MIX	PROPORTIONS BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
CHEWINGS OR RED FESCUE	40%	98	90
ANNUAL OR PERENNIAL RYE	40%	98	90
REDTOP OR COLONIAL BENTGRASS	10%	92	85
WHITE DUTCH CLOVER	10%	98	90

APPROVED

1 2019
T.E.S.C.
DETAILS
PUBLIC WORKS DEPARTMENT

811
Know what's below.
Call before you dig.

ENGINEER'S CERTIFICATION:

I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR THE UNITY CARE NW - FERDALE PROJECT HAVE BEEN INSPECTED BY MARK BUEHRER AND HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERDALE DEVELOPMENT STANDARDS, THE CITY OF FERDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE.

RMC ARCHITECTS

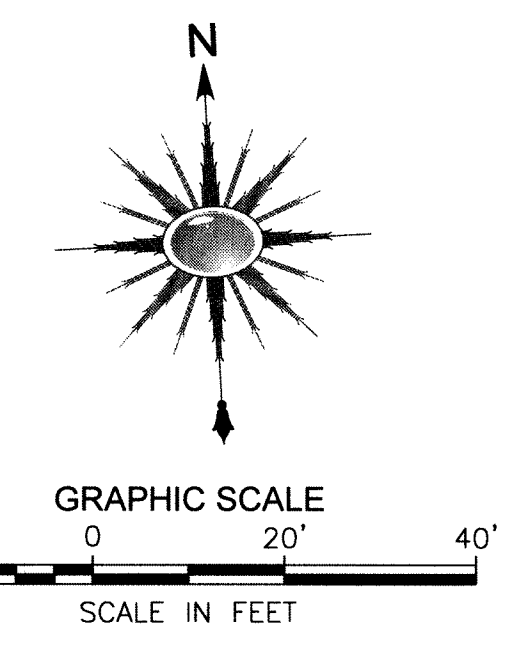
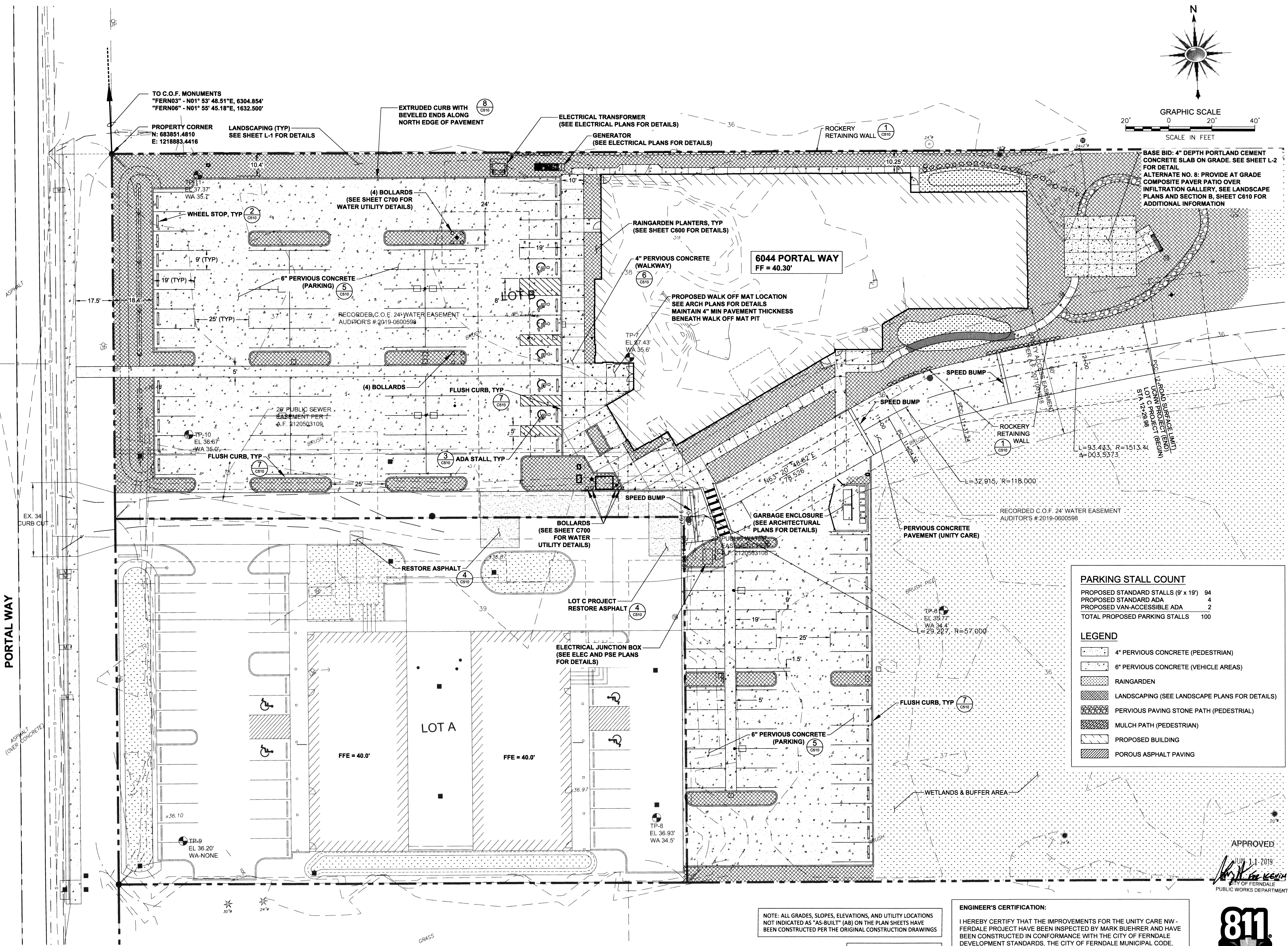
2020 ENGINEERING
MARK S. BUEHRER
STATE OF WASHINGTON
203553
PROFESSIONAL ENGINEER
6-11-2019

Unity Care NW
Unity Care NW - Ferndale
6044 Portal Way
Ferndale, WA

Job No: _	Date: 2019-4-12
File No:	
Drawn By: B. GIBSON	
Checked By: H. CRUISE	
Issued For: PROJECT RECORD	
1 BID SET	2017-03-01
2 CONSTRUCTION SET	2018-01-15
3 BID CLARIFICATIONS	2018-02-08
4 AS BUILT SET	2019-06-11

T.E.S.C.
DETAILS

C410



PARKING STALL COUNT

PROPOSED STANDARD STALLS (9' x 19')	94
PROPOSED STANDARD ADA	4
PROPOSED VAN-ACCESSIBLE ADA	2
TOTAL PROPOSED PARKING STALLS	100

LEGEND

	4' PERVIOUS CONCRETE (PEDESTRIAN)
	6' PERVIOUS CONCRETE (VEHICLE AREAS)
	RAINGARDEN
	LANDSCAPING (SEE LANDSCAPE PLANS FOR DETAILS)
	PERVIOUS PAVING STONE PATH (PEDESTRIAL)
	MULCH PATH (PEDESTRIAN)
	PROPOSED BUILDING
	POROUS ASPHALT PAVING

RMC ARCHITECTS

RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P: 360.676.7733 • F: 360.736.0445 • www.rmcarchitects.com

2020 ENGINEERING

MARK S. BUEHRER
PROFESSIONAL ENGINEER
6-11-2019

Unity Care NW
Unity Care NW - Ferndale
6044 Portal Way
Ferndale, WA

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C500

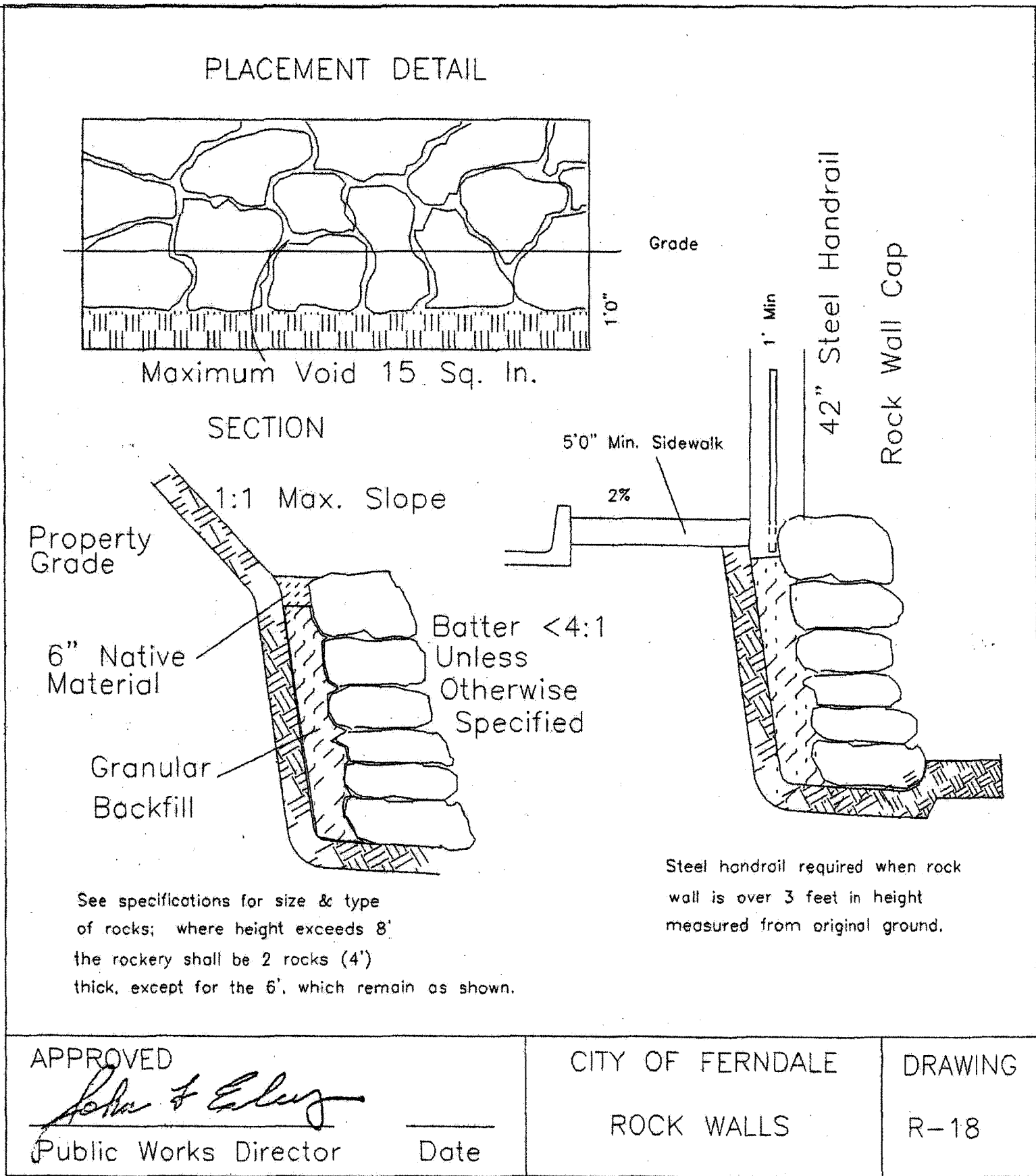
NOTE: ALL GRADES, SLOPES, ELEVATIONS, AND UTILITY LOCATIONS NOT INDICATED AS "AS-BUILT" (AB) ON THE PLAN SHEETS HAVE BEEN CONSTRUCTED PER THE ORIGINAL CONSTRUCTION DRAWINGS

NOTE: UNLESS OTHERWISE NOTED, SCOPE OF WORK SHOWN APPLIES ONLY TO UCNW PROJECT.

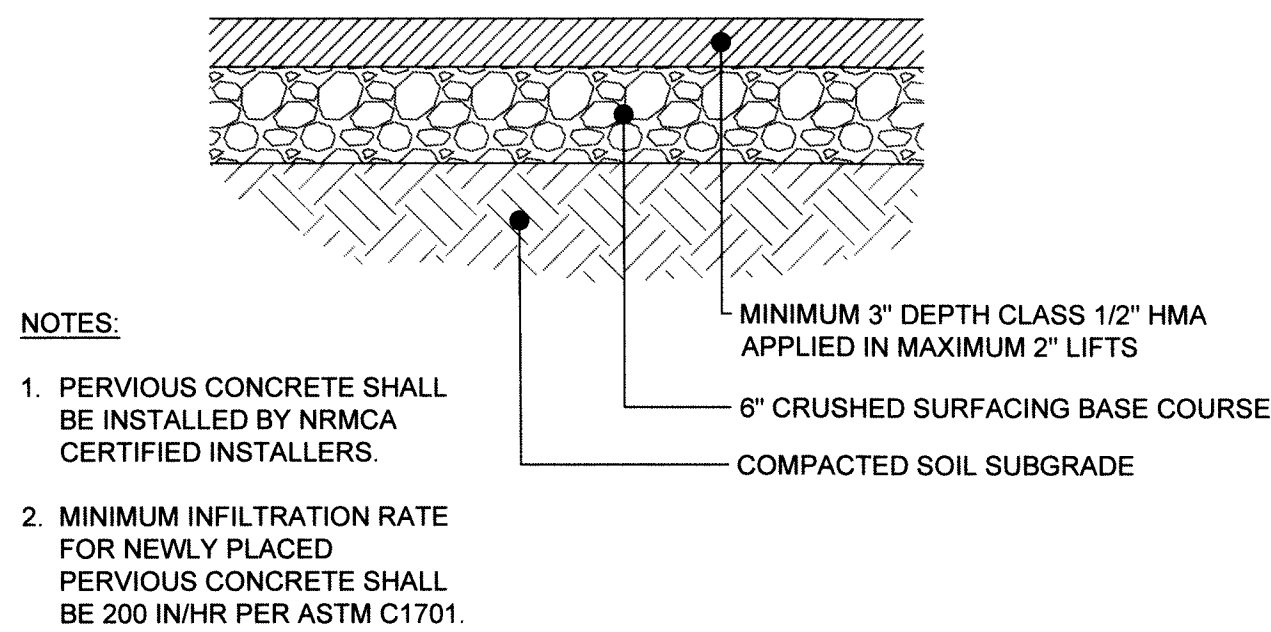
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APPROVED
JUL 11 2019
CITY OF FERDALE
PUBLIC WORKS DEPARTMENT

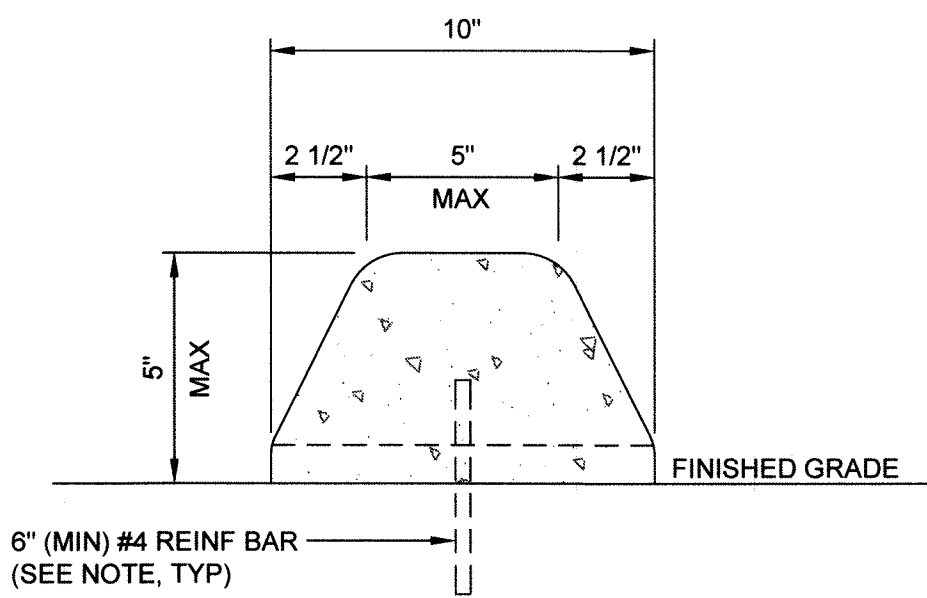
SITE PLAN



1 ROCK WALL DETAIL
C500 N.T.S.

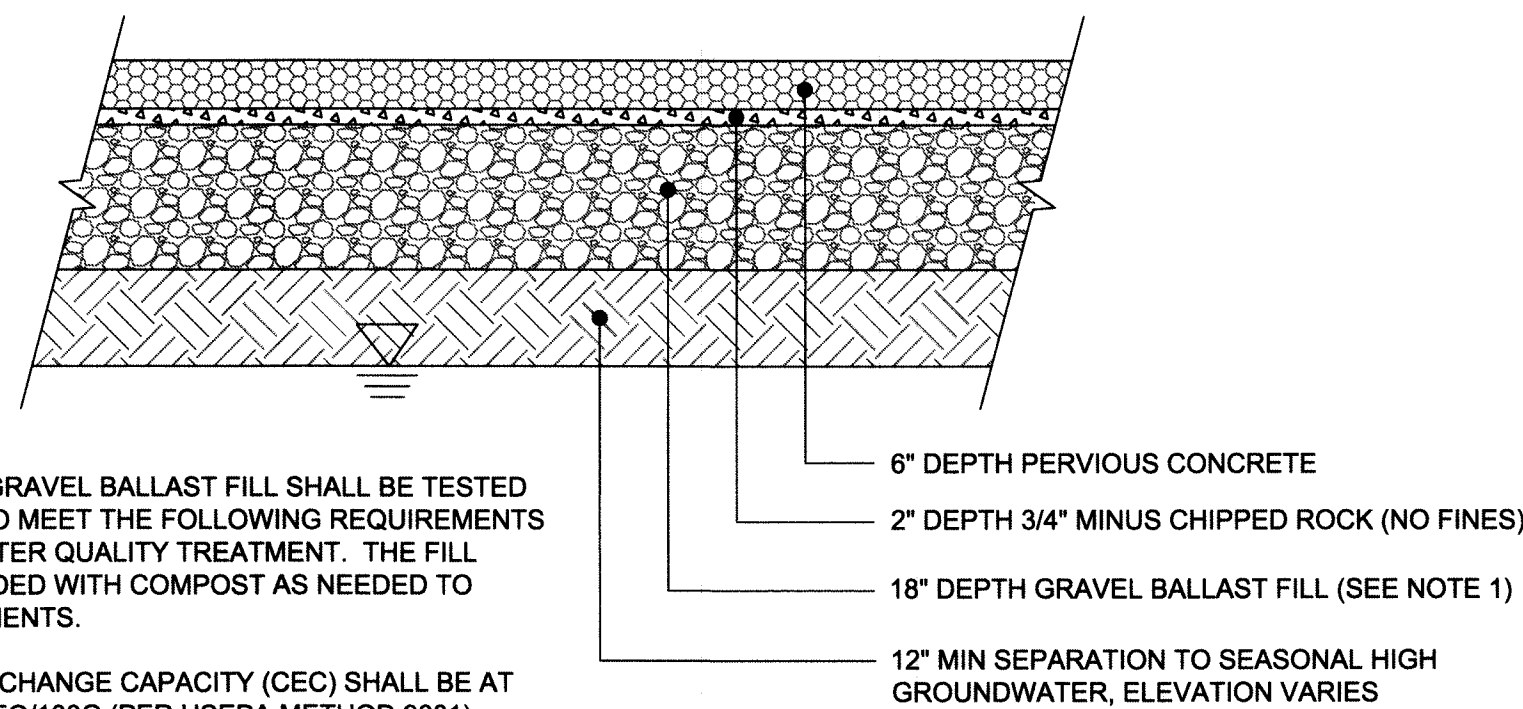


4 ASPHALT PAVEMENT SECTION
C500 N.T.S.



- NOTES:
1. REINFORCING BARS SHALL HAVE A MINIMUM LENGTH OF 6'.
 2. WHEEL STOPS SHALL BE A MINIMUM OF 6' LONG.
 3. WHEEL STOP SIZE MAY VARY, SUBMIT FOR ENGINEER'S APPROVAL.

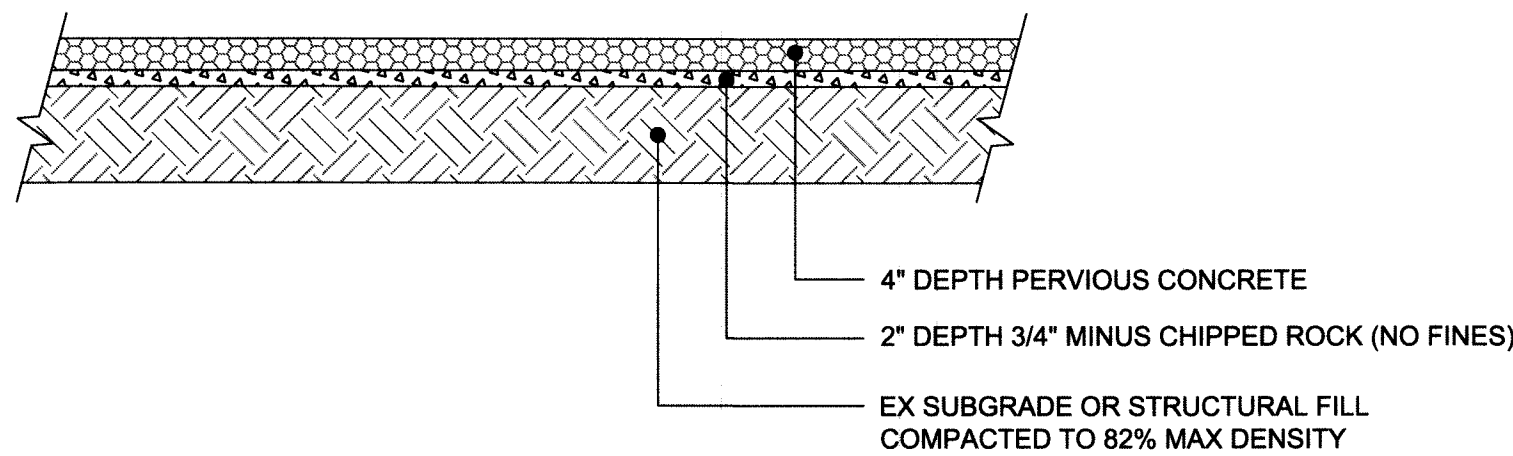
2 WHEEL STOP DETAIL
C500 N.T.S.



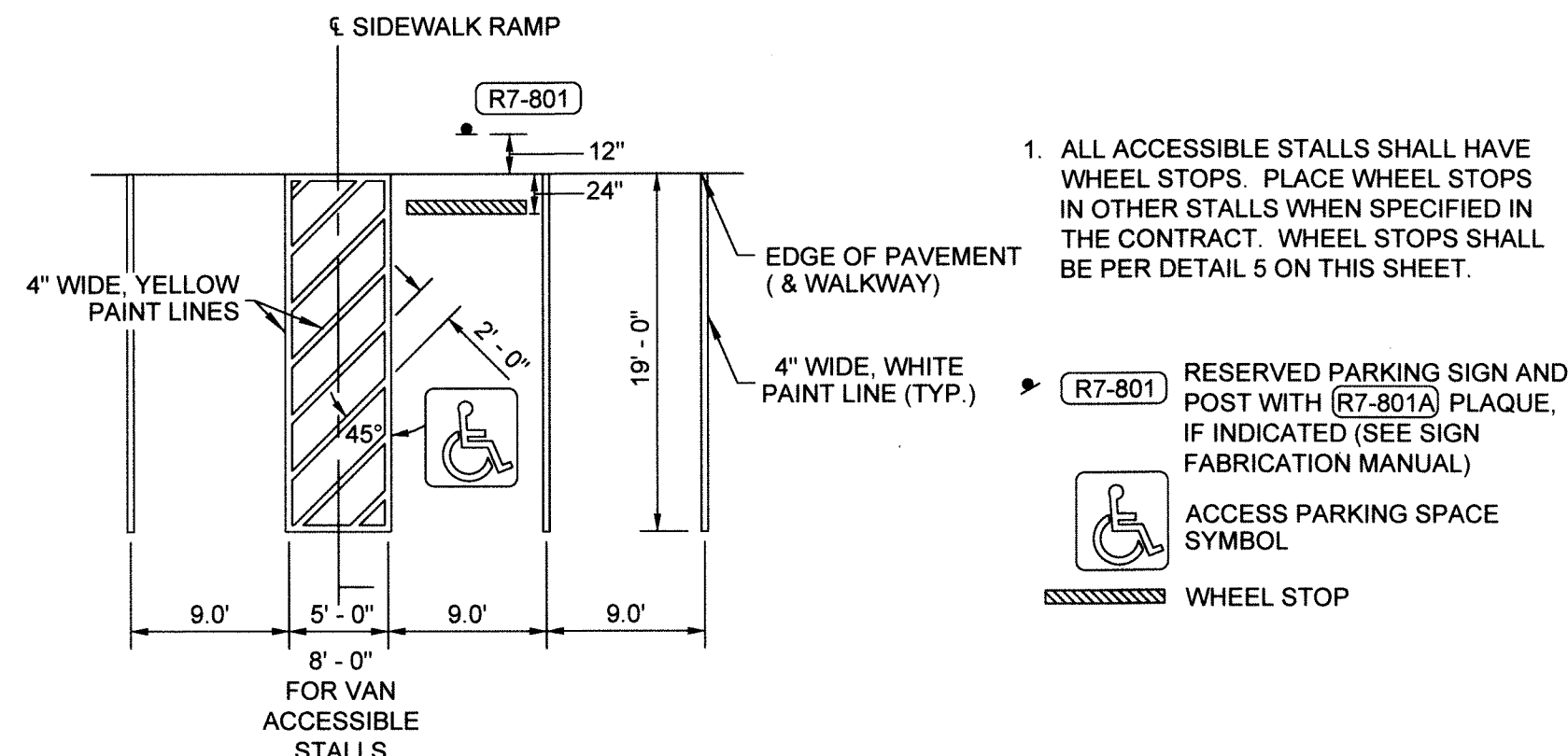
NOTES:

1. THE 18" DEPTH GRAVEL BALLAST FILL SHALL BE TESTED AND VERIFIED TO MEET THE FOLLOWING REQUIREMENTS TO PROVIDE WATER QUALITY TREATMENT. THE FILL SHALL BE AMENDED WITH COMPOST AS NEEDED TO MEET REQUIREMENTS.
 - A. CATION EXCHANGE CAPACITY (CEC) SHALL BE AT LEAST 5 MEQ/100G (PER USEPA METHOD 9081)
 - B. ORGANIC CONTENT SHALL BE AT LEAST 1% (PER ASTM D2974)
 - C. INFILTRATION RATE SHALL BE AT LEAST 2 INCHES/HOUR.
2. "PIT RUN" FILL MAY BE ACCEPTABLE PROVIDED IT MEETS THE ABOVE SPECIFICATIONS.
3. PERVIOUS CONCRETE SHALL BE INSTALLED BY NRMCA CERTIFIED INSTALLERS.
4. MINIMUM INFILTRATION RATE FOR NEWLY PLACED PERVIOUS CONCRETE SHALL BE 200 IN/HR PER ASTM C1701.
5. CONCRETE AND AGGREGATE FOR ALL PERVIOUS CONCRETE SHALL BE 3/8" MIX PER ACI 522, OR APPROVED EQUAL.
6. CONTRACTOR SHALL REFER TO PROJECT SPECIFICATION SECTION 32 13 43 FOR COMPREHENSIVE PERVIOUS CONCRETE PRODUCT SPECIFICATIONS AND INSTALLATION REQUIREMENTS.

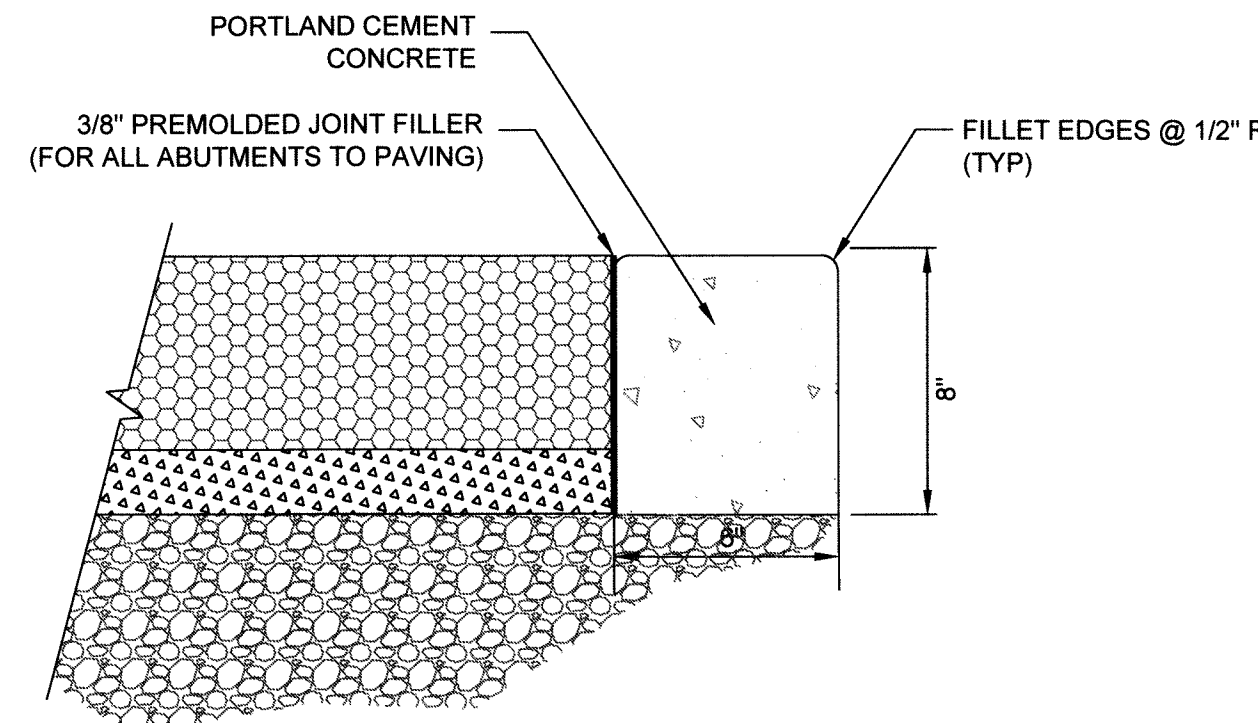
5 6" PERVIOUS CONCRETE PAVEMENT DETAIL
C500 N.T.S.



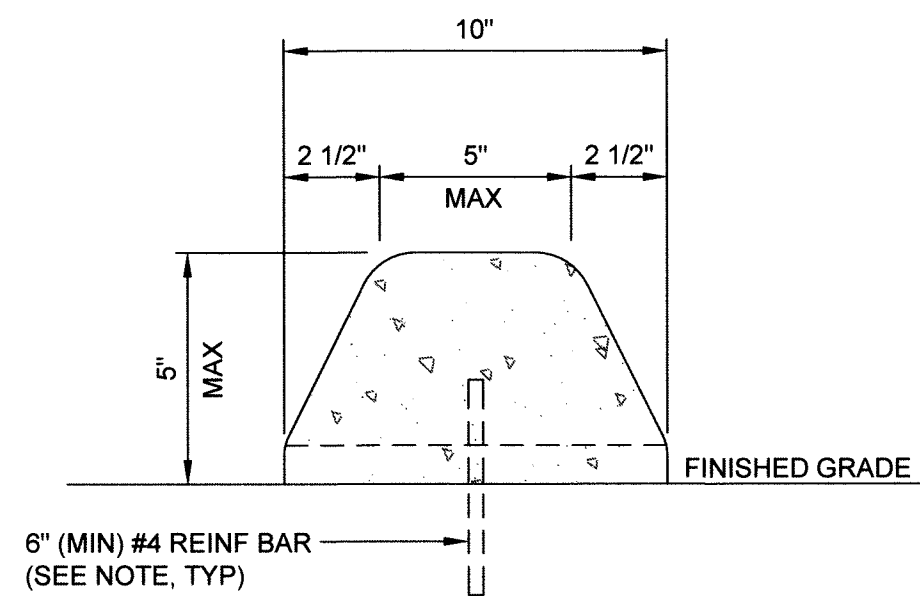
6 4" PERVIOUS CONCRETE WALKWAY DETAIL
C500 N.T.S.



3 ADA PARKING/ STRIPING DETAIL
C500 N.T.S.



7 FLUSH CURB DETAIL
C500 N.T.S.



NOTE: REINFORCING BARS SHALL HAVE A MINIMUM LENGTH OF 6' ON 10' CENTERS WITH NO BAR CLOSER THAN 12" FROM A CURB END OR JOINT

8 EXTRUDED CURB
C500 N.T.S.

ENGINEER'S CERTIFICATION:

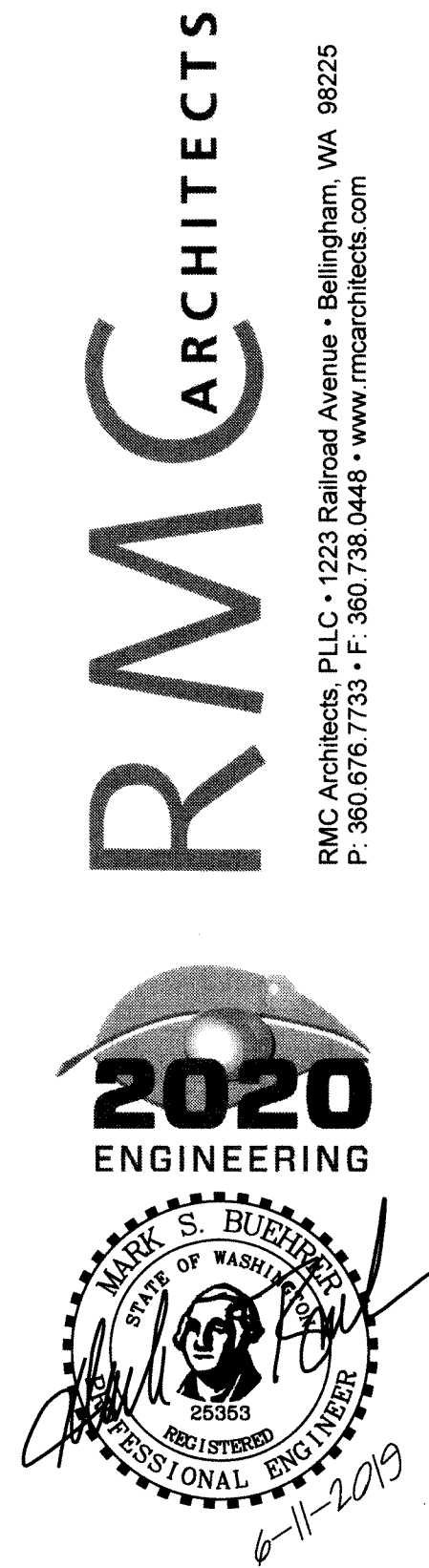
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APPROVED

JUN 11 2019
Mark S. Buehrer
CITY OF FERDALE
PUBLIC WORKS DEPARTMENT



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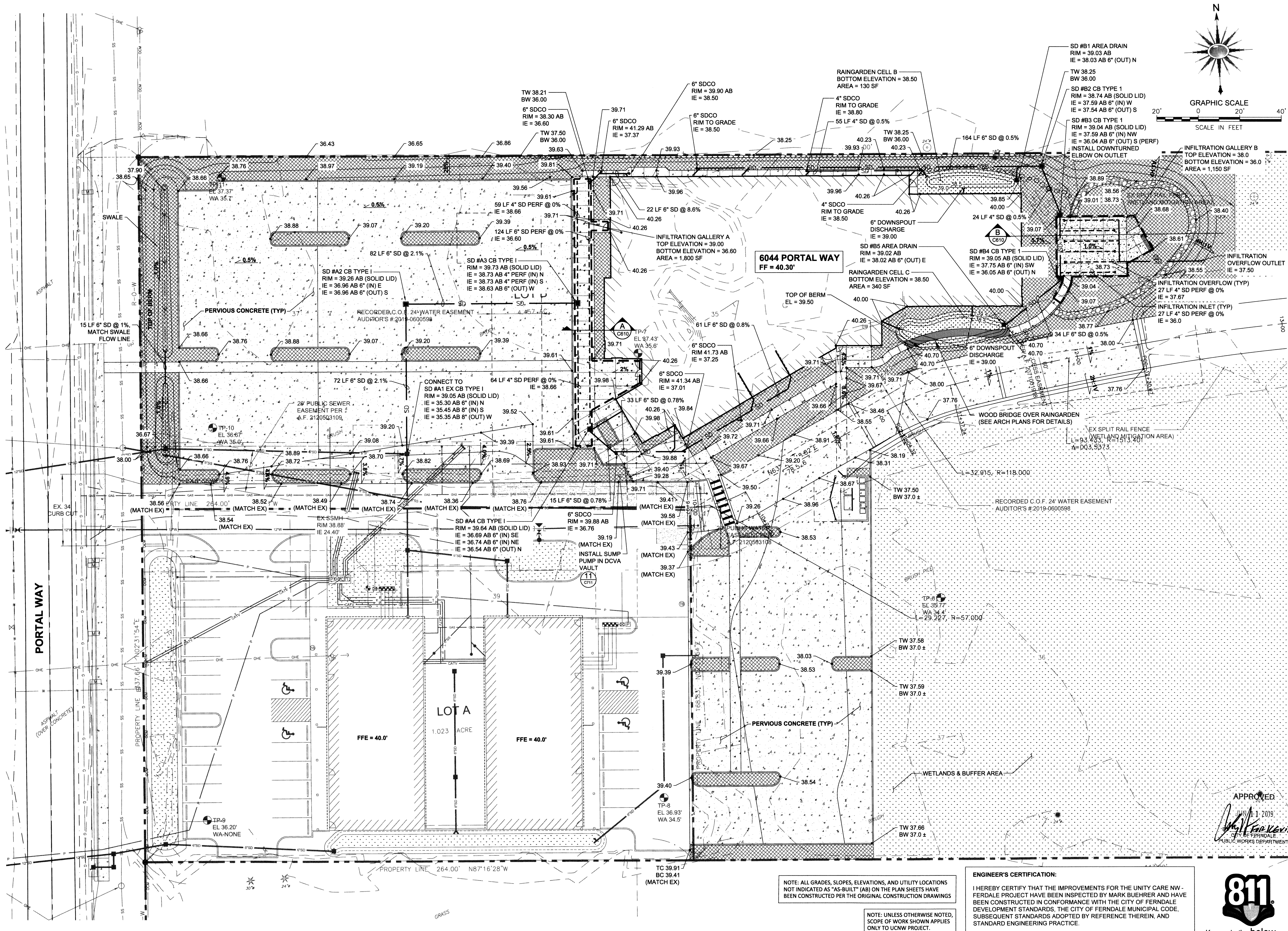


Unity Care NW - Ferndale
Unity Care NW
6044 Portal Way
Ferndale, WA

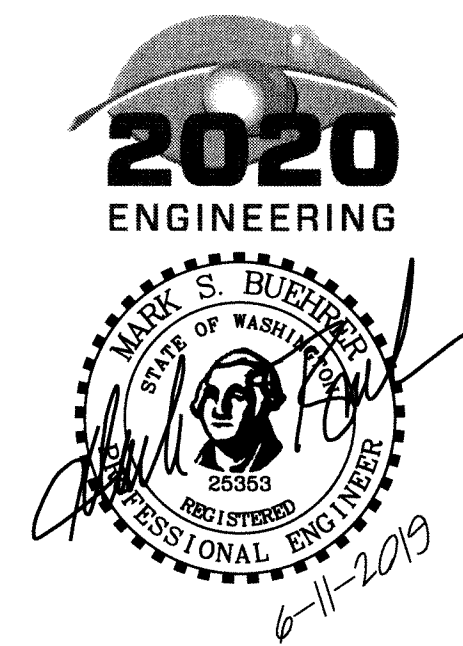
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File No:	
Drawn By:	B. GIBSON
Checked By:	H. CRUISE
Issued For:	M. BUEHRER
	PROJECT RECORD
1	BID SET 2017-03-01
2	CONSTRUCTION SET 2018-01-15
3	BID CLARIFICATIONS 2018-02-06
4	AS BUILT SET 2019-06-11

SITE DETAILS

C510



RMC ARCHITECTS



Unity Care NW
Unity Care NW - Ferndale
6044 Portal Way
Ferndale, WA

Job No:	Date:
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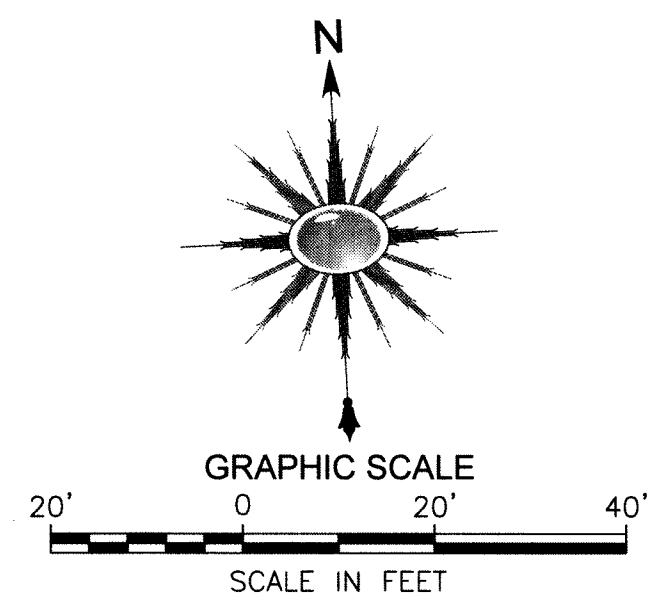
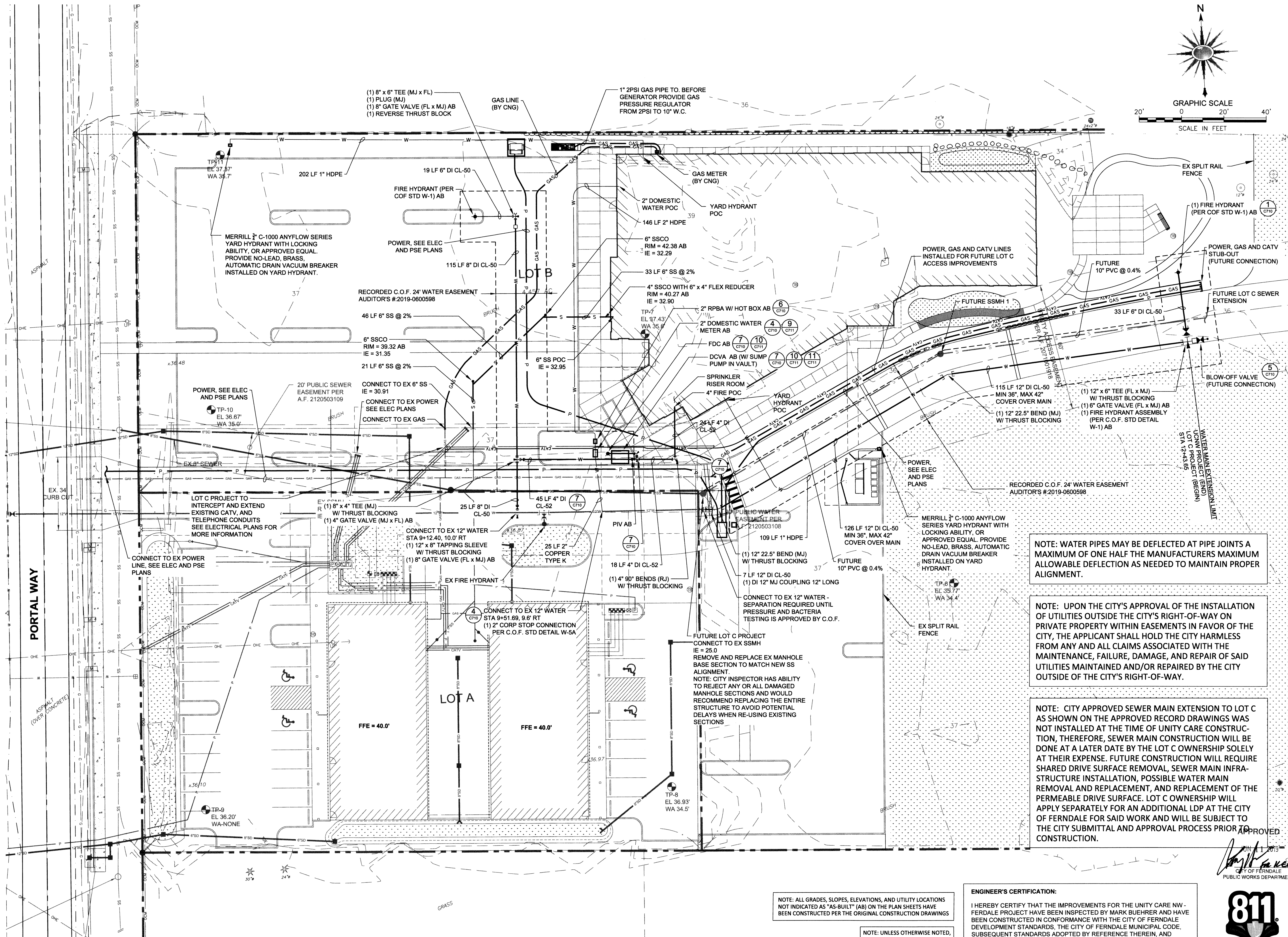
GRADING &
DRAINAGE
PLAN

C600

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00669.009 06/21/19 KB



NOTE: WATER PIPES MAY BE DEFLECTED AT PIPE JOINTS A MAXIMUM OF ONE HALF THE MANUFACTURERS MAXIMUM ALLOWABLE DEFLECTION AS NEEDED TO MAINTAIN PROPER ALIGNMENT.

NOTE: UPON THE CITY'S APPROVAL OF THE INSTALLATION OF UTILITIES OUTSIDE THE CITY'S RIGHT-OF-WAY ON PRIVATE PROPERTY WITHIN EASEMENTS IN FAVOR OF THE CITY, THE APPLICANT SHALL HOLD THE CITY HARMLESS FROM ANY AND ALL CLAIMS ASSOCIATED WITH THE MAINTENANCE, FAILURE, DAMAGE, AND REPAIR OF SAID UTILITIES MAINTAINED AND/OR REPAIRED BY THE CITY OUTSIDE OF THE CITY'S RIGHT-OF-WAY.

NOTE: CITY APPROVED SEWER MAIN EXTENSION TO LOT C AS SHOWN ON THE APPROVED RECORD DRAWINGS WAS NOT INSTALLED AT THE TIME OF UNITY CARE CONSTRUCTION, THEREFORE, SEWER MAIN CONSTRUCTION WILL BE DONE AT A LATER DATE BY THE LOT C OWNERSHIP SOLELY AT THEIR EXPENSE. FUTURE CONSTRUCTION WILL REQUIRE SHARED DRIVE SURFACE REMOVAL, SEWER MAIN INFRA-STRUCTURE INSTALLATION, POSSIBLE WATER MAIN REMOVAL AND REPLACEMENT, AND REPLACEMENT OF THE PERMEABLE DRIVE SURFACE. LOT C OWNERSHIP WILL APPLY SEPARATELY FOR AN ADDITIONAL LDP AT THE CITY OF FERNDAL FOR SAID WORK AND WILL BE SUBJECT TO THE CITY SUBMITTAL AND APPROVAL PROCESS PRIOR TO CONSTRUCTION.

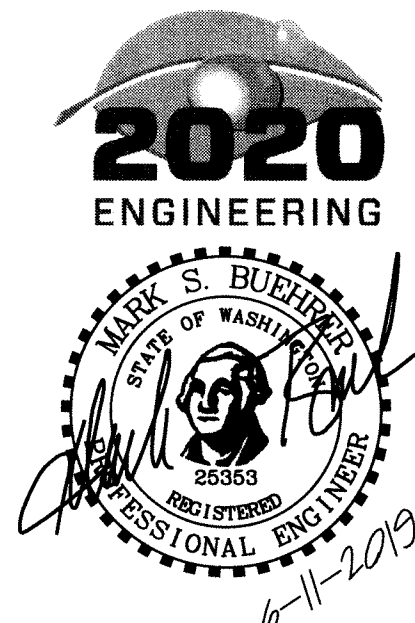
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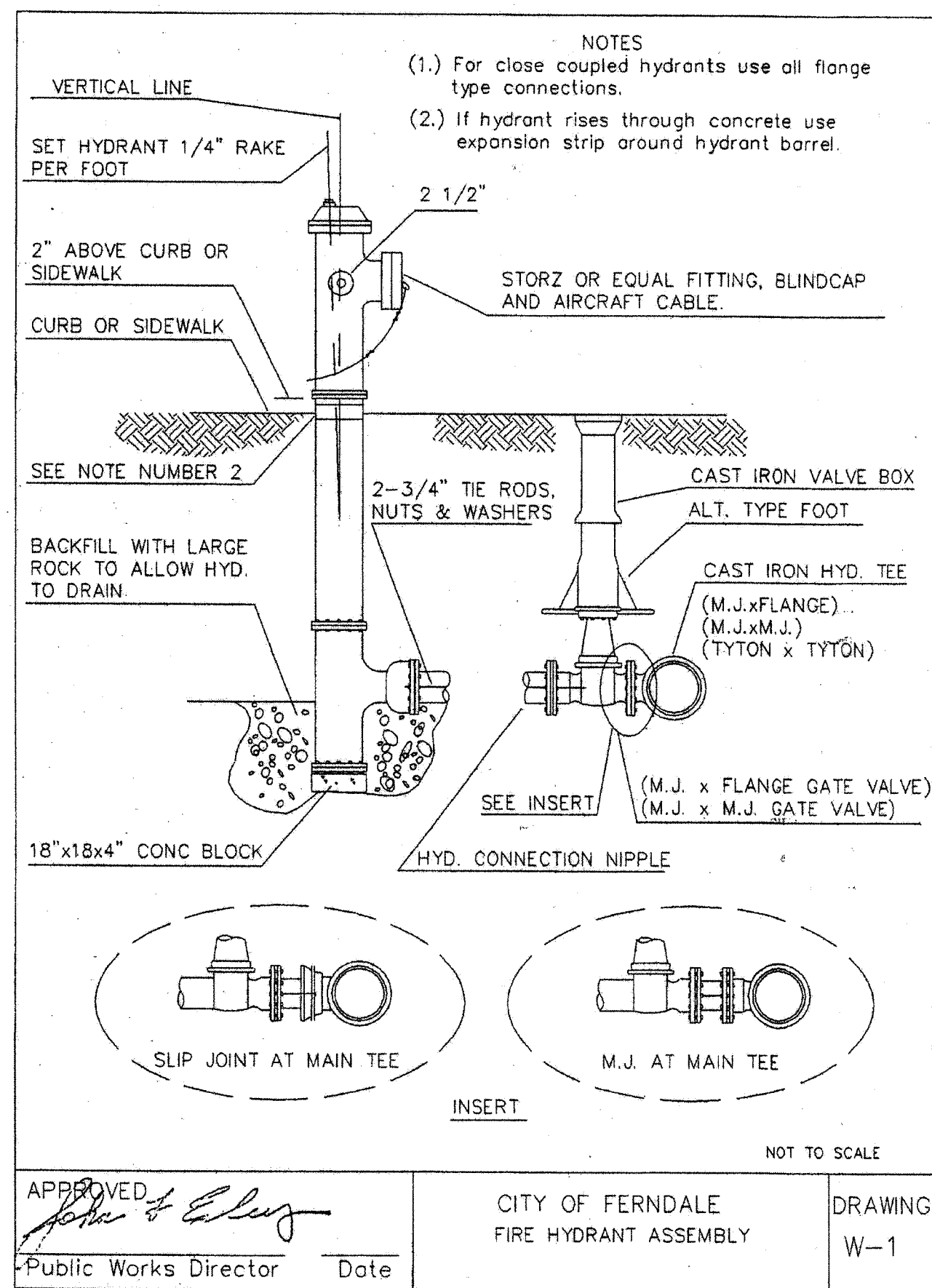
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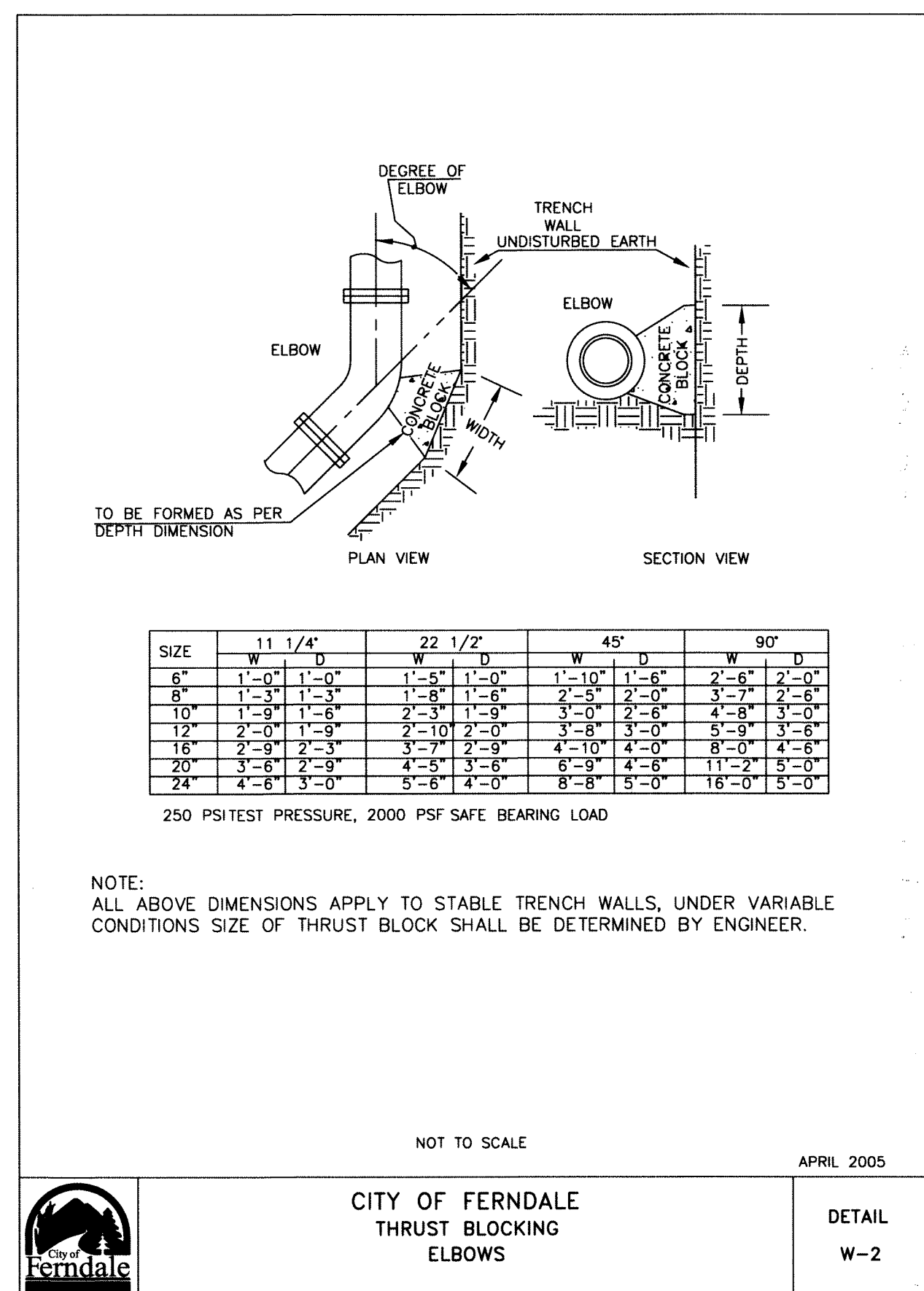
APPROVED
Mark S. Buehrer
CITY OF FERNDAL
PUBLIC WORKS DEPARTMENT



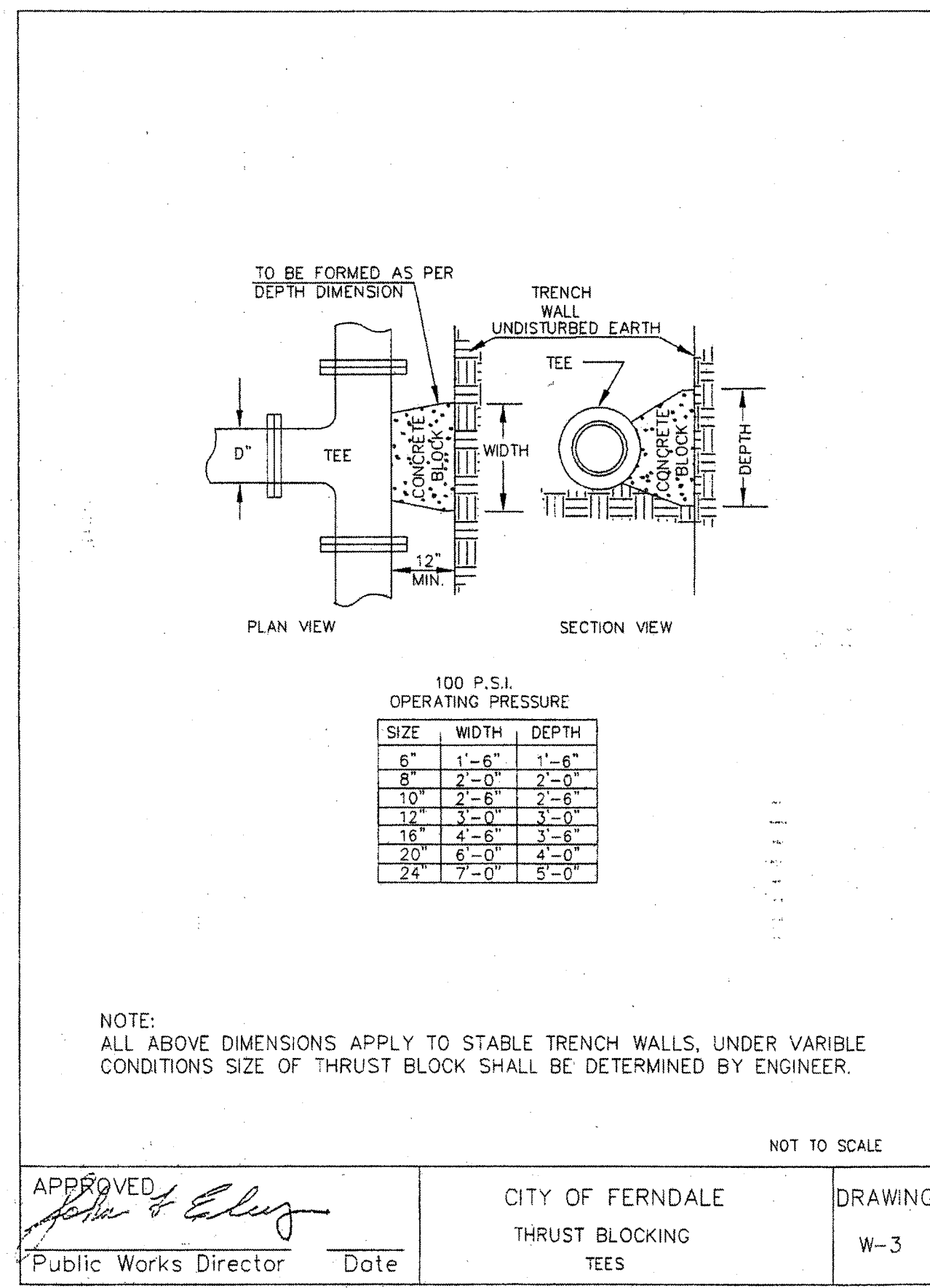
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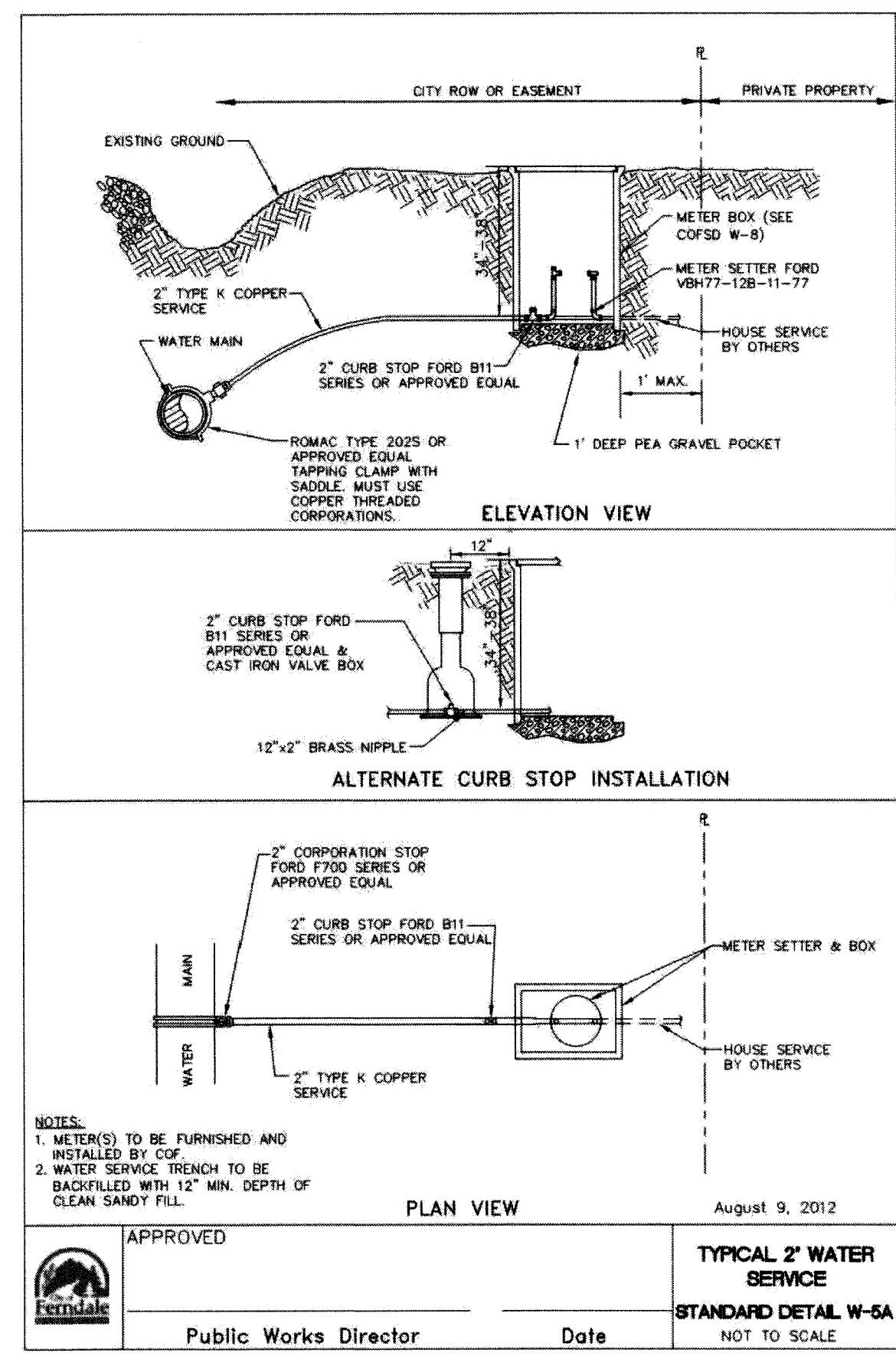
1 FIRE HYDRANT ASSEMBLY DETAIL
C700 N.T.S.



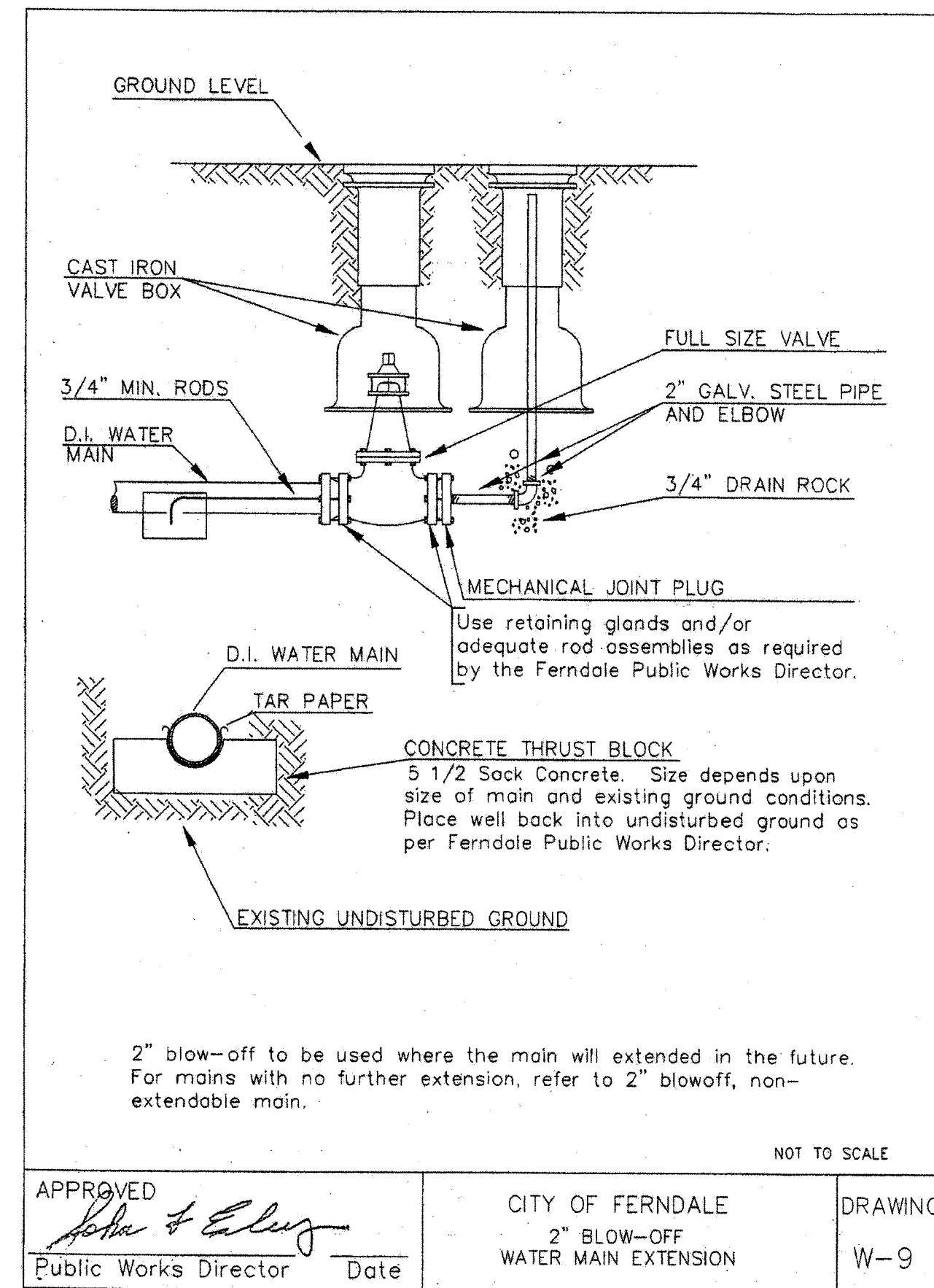
2 THRUST BLOCK DETAILS
C700 N.T.S.



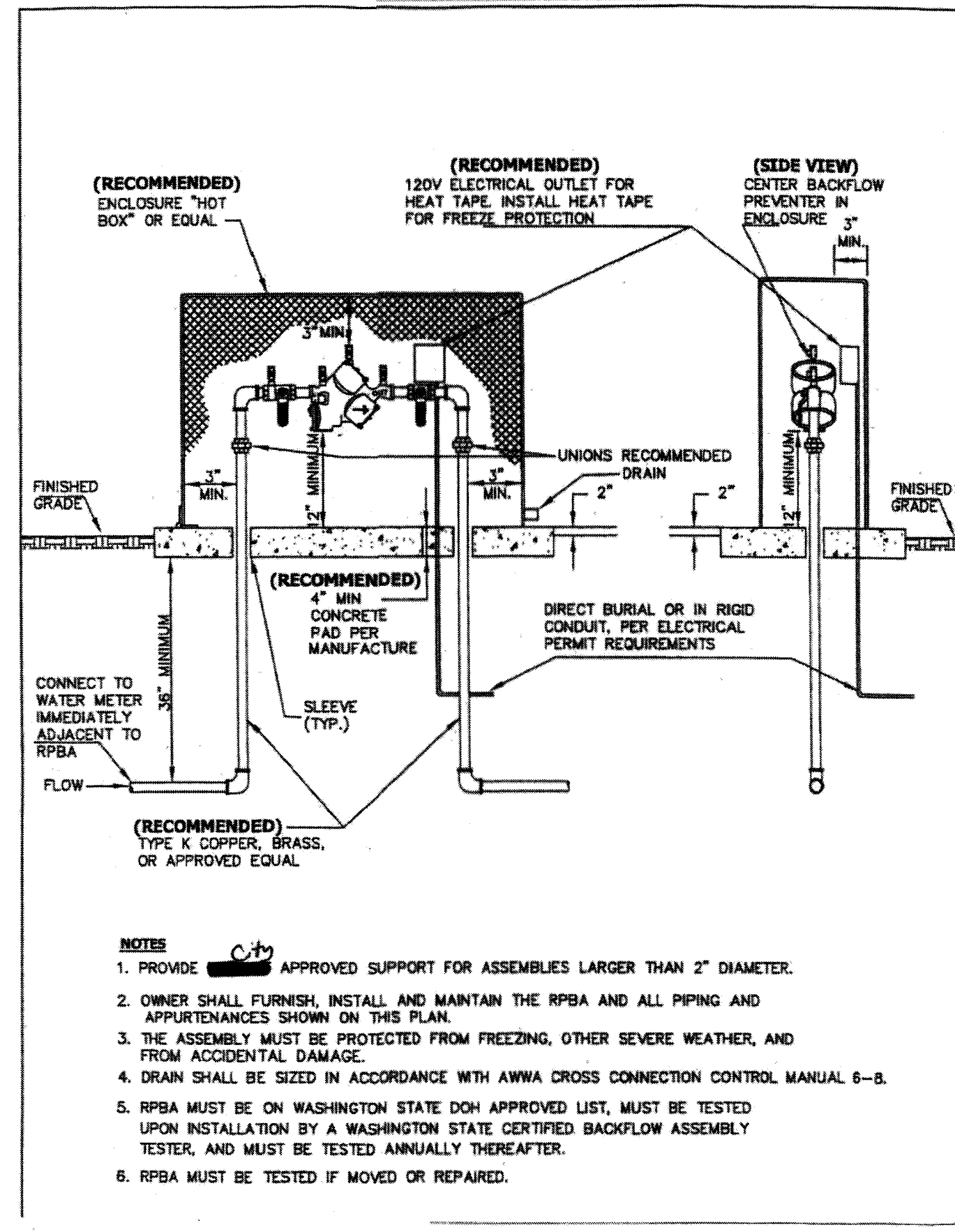
3 THRUST BLOCK DETAILS
C700 N.T.S.



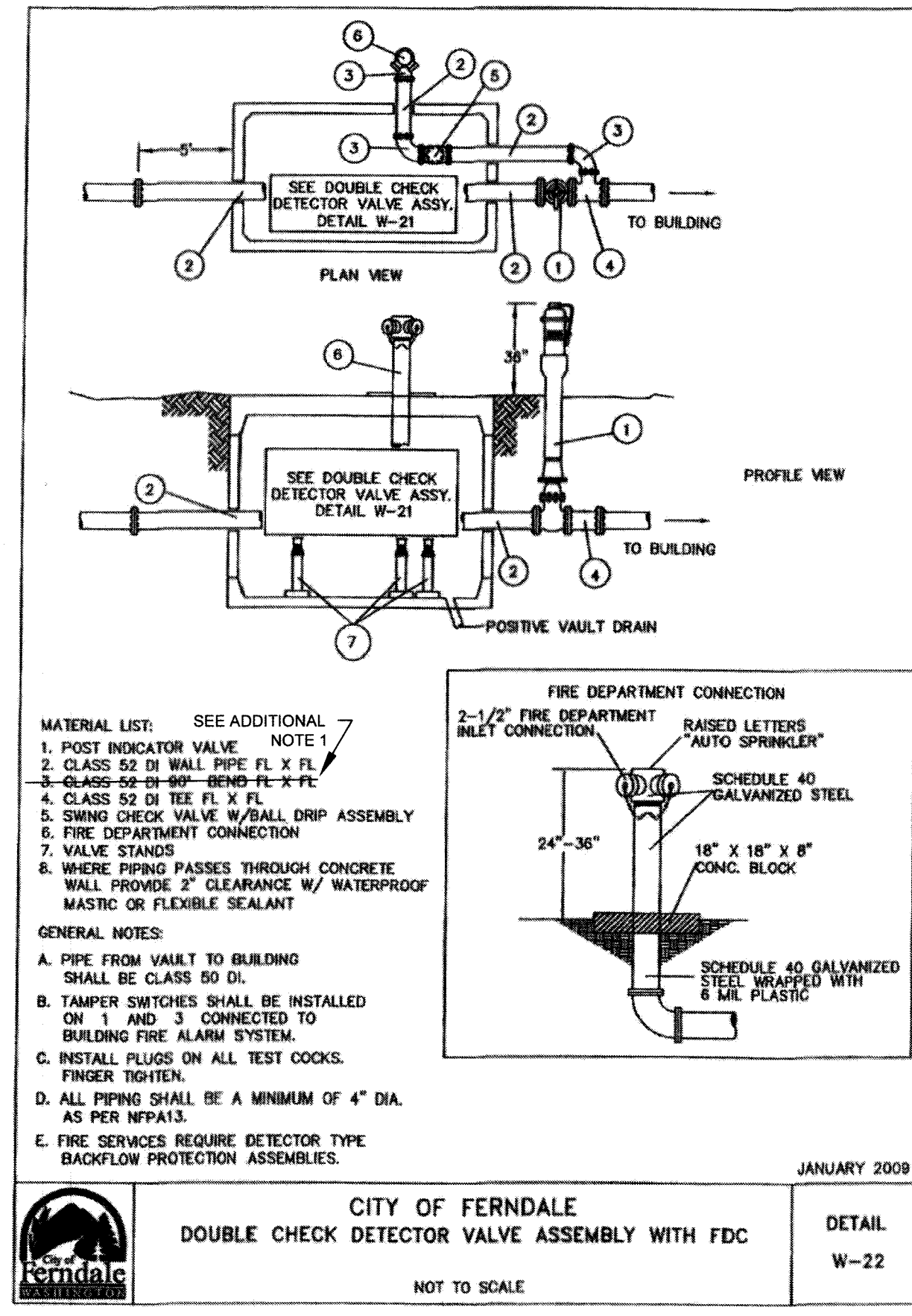
4 WATER SERVICE DETAIL
C700 N.T.S.



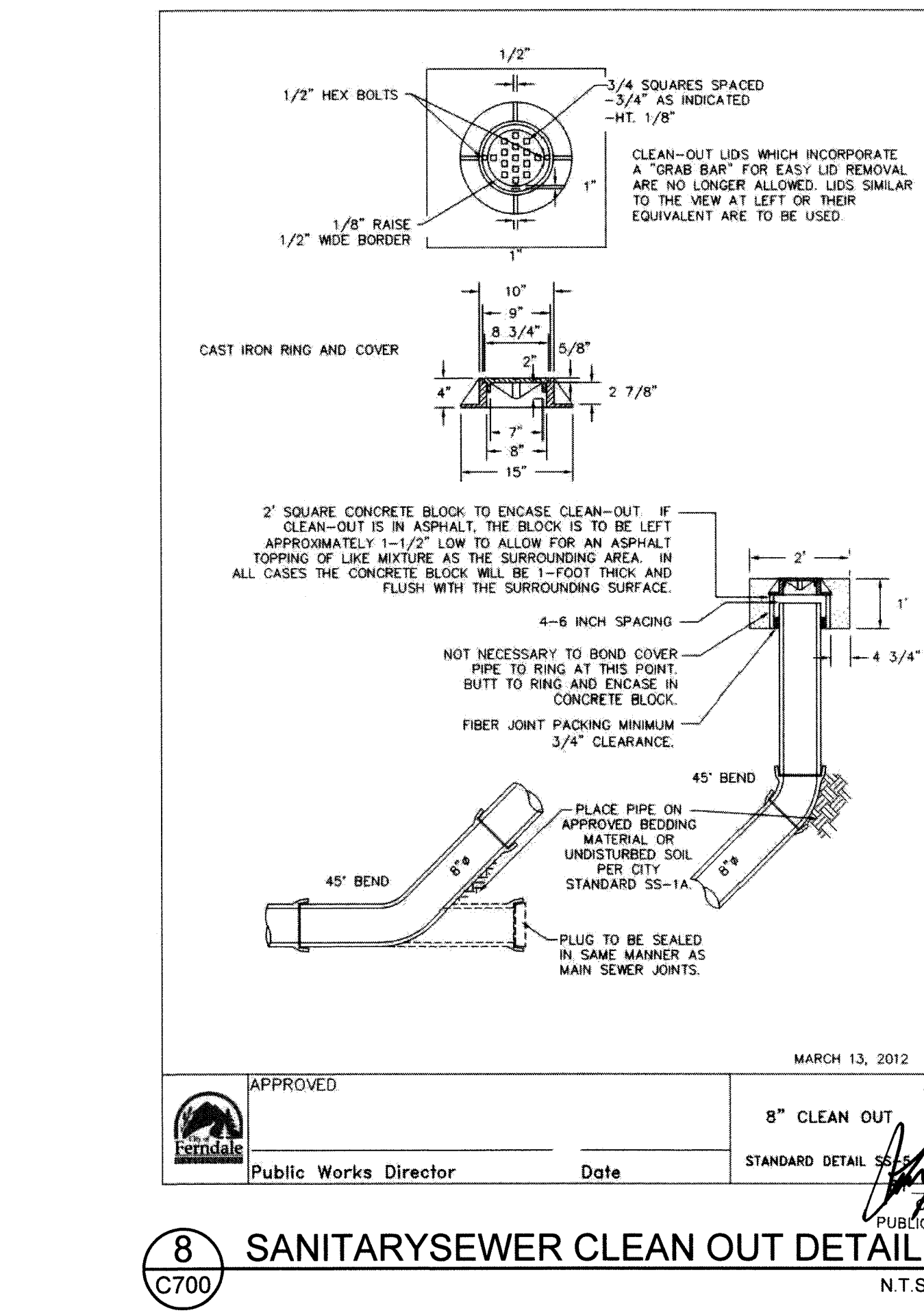
5 BLOW-OFF VALVE DETAIL
C700 N.T.S.



6 REDUCED PRESSURE BACKFLOW ASSEMBLY DETAIL
C700 N.T.S.



7 FIRE DEPARTMENT CONNECTION DETAIL
C700 N.T.S.



8 SANITARY SEWER CLEAN OUT DETAIL
C700 N.T.S.

ENGINEER'S CERTIFICATION:
I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR THE UNITY CARE NW - FERDALE PROJECT HAVE BEEN INSPECTED BY MARK BUEHRER AND HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERDALE DEVELOPMENT STANDARDS, THE CITY OF FERDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE.



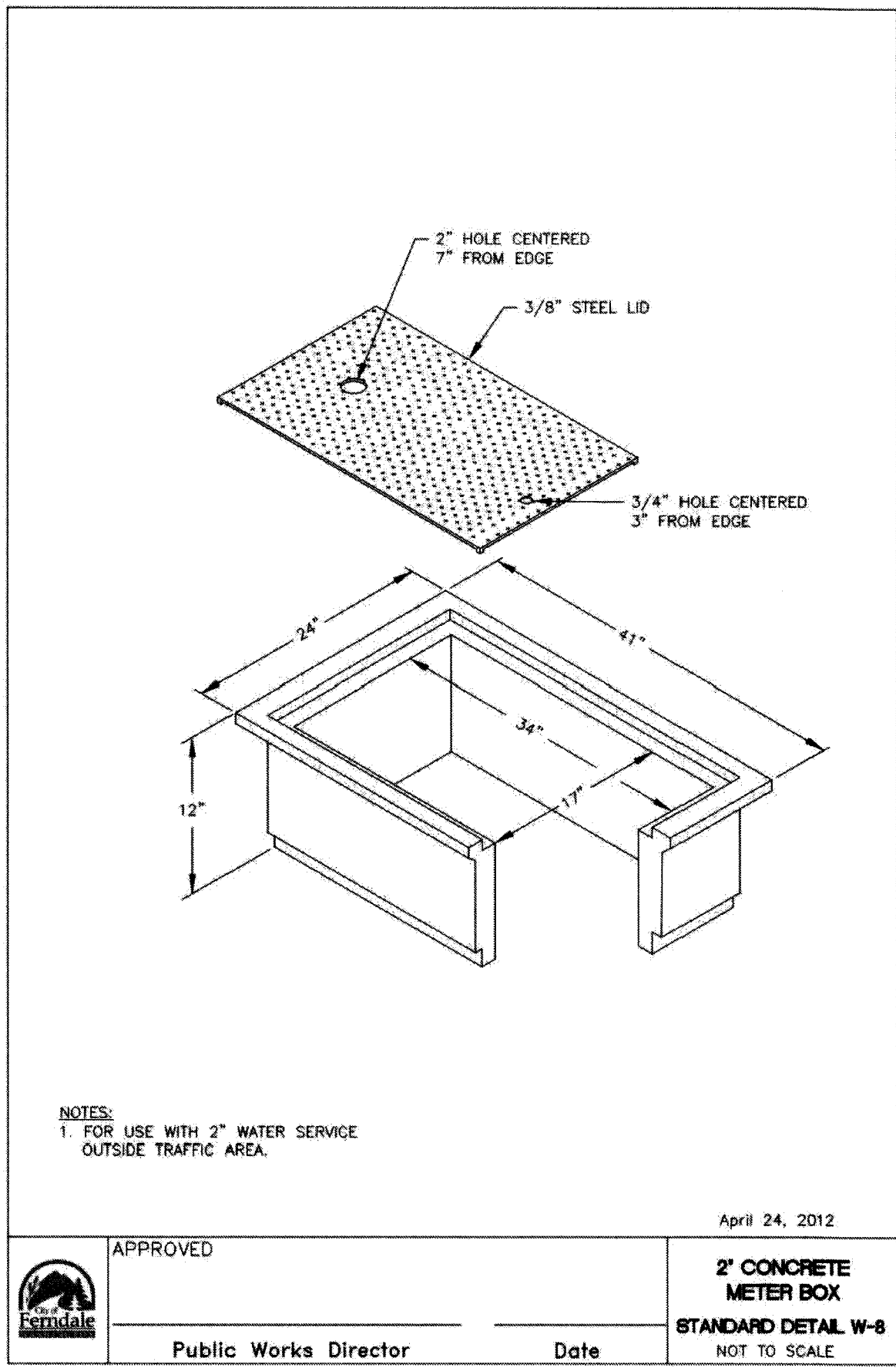
RMC ARCHITECTS
RMC Architects, PLLC - 1923 Railroad Avenue - Bellingham, WA 98225
P: 360.676.7733 F: 360.735.0448 www.rmcarchitects.com

2020 ENGINEERING
MARK S. BUEHRER
STATE OF WASHINGTON
20553
REGISTERED PROFESSIONAL ENGINEER
6-11-2019

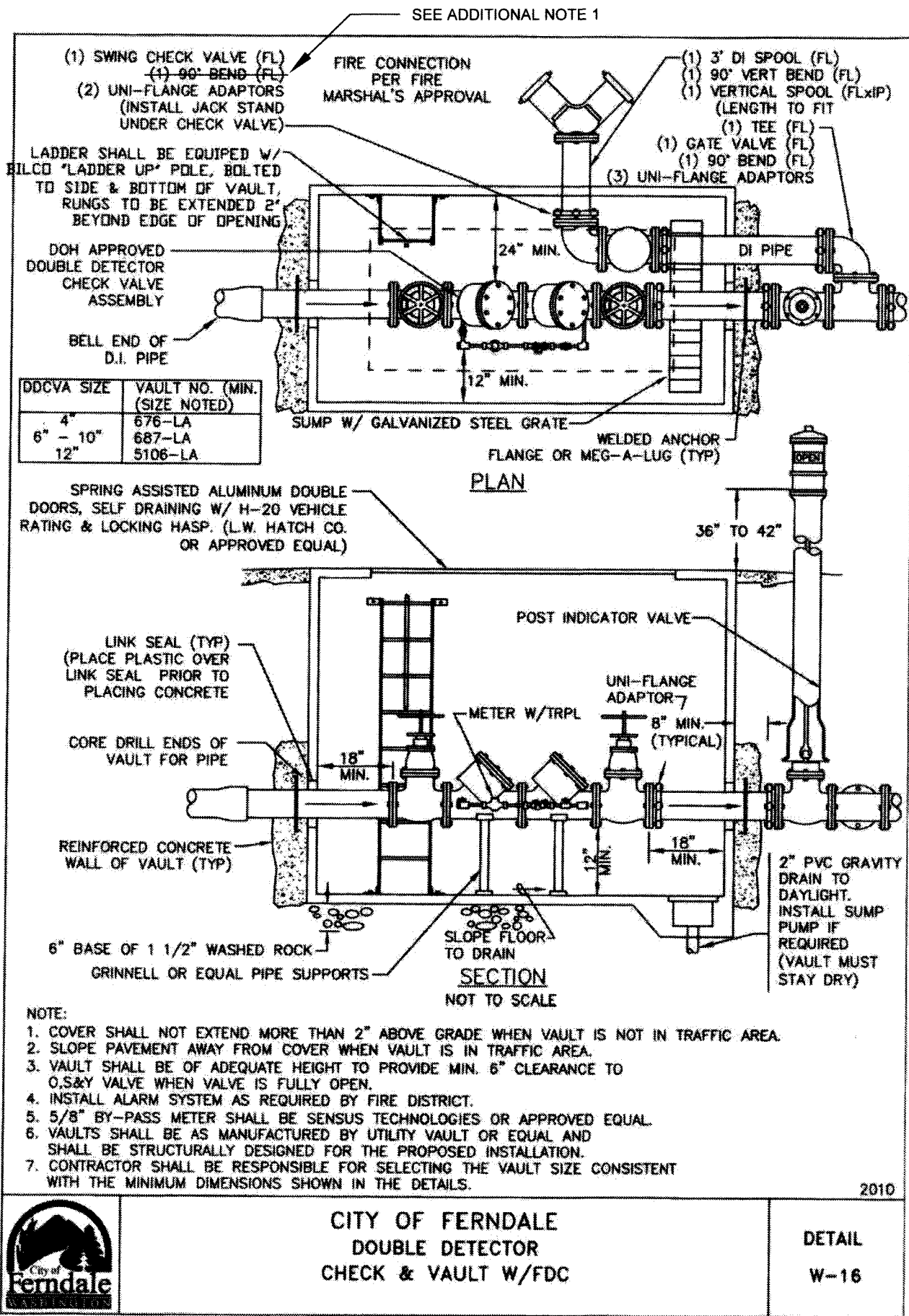
Unity Care NW
Unity Care NW - Ferndale
6044 Portal Way
Ferndale, WA

Job No: _____ Date: 2019-4-12
File No: _____
Drawn By: B. GIBSON
Checked By: H. CRUISE
Issued For: PROJECT RECORD
1. BID SET 2017-03-01
2. CONSTRUCTION SET 2018-01-15
3. BID CLARIFICATIONS 2018-02-06
4. SET 2019-06-11

UTILITY DETAILS
C710



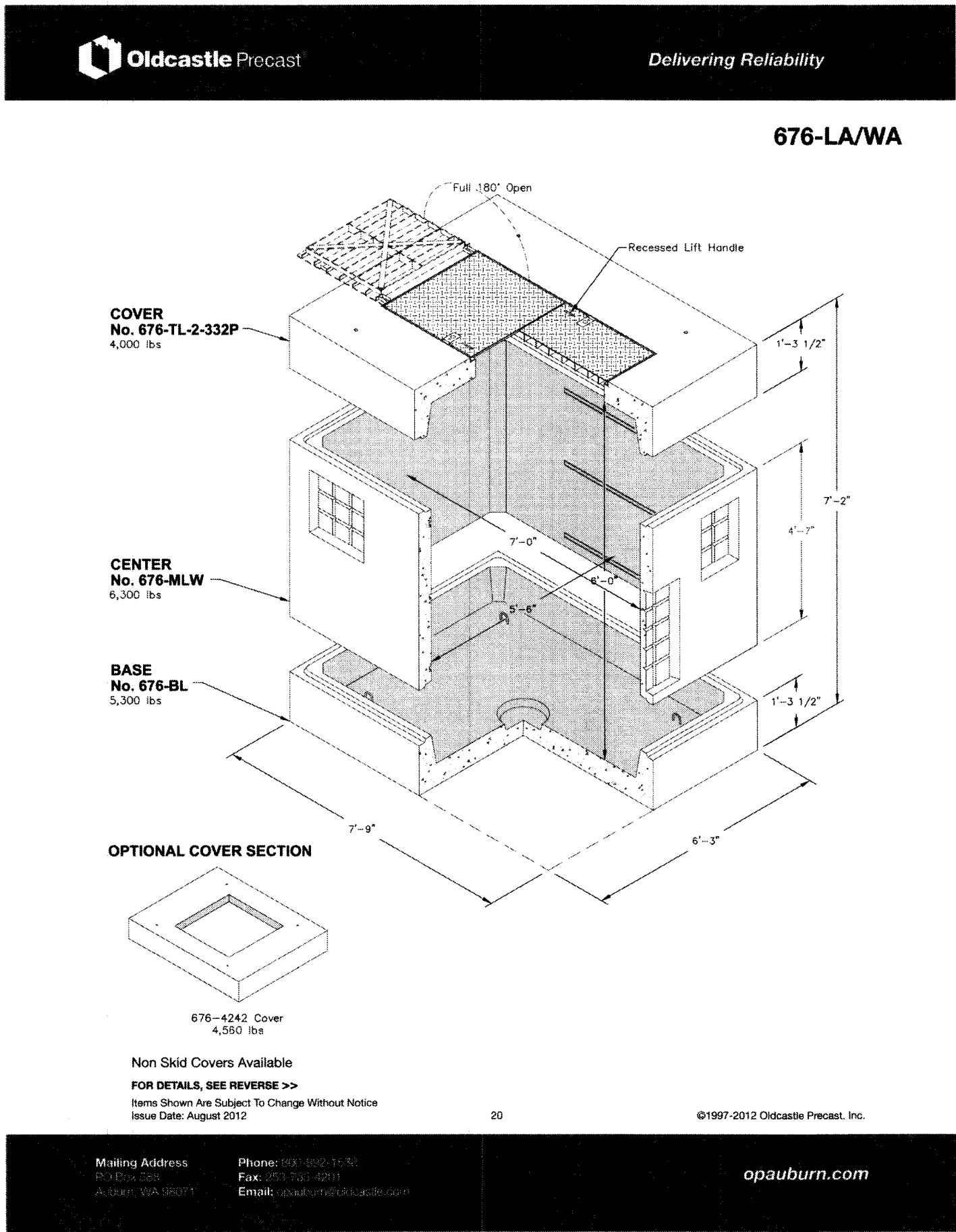
9 WATER METER BOX DETAIL
C700 N.T.S.



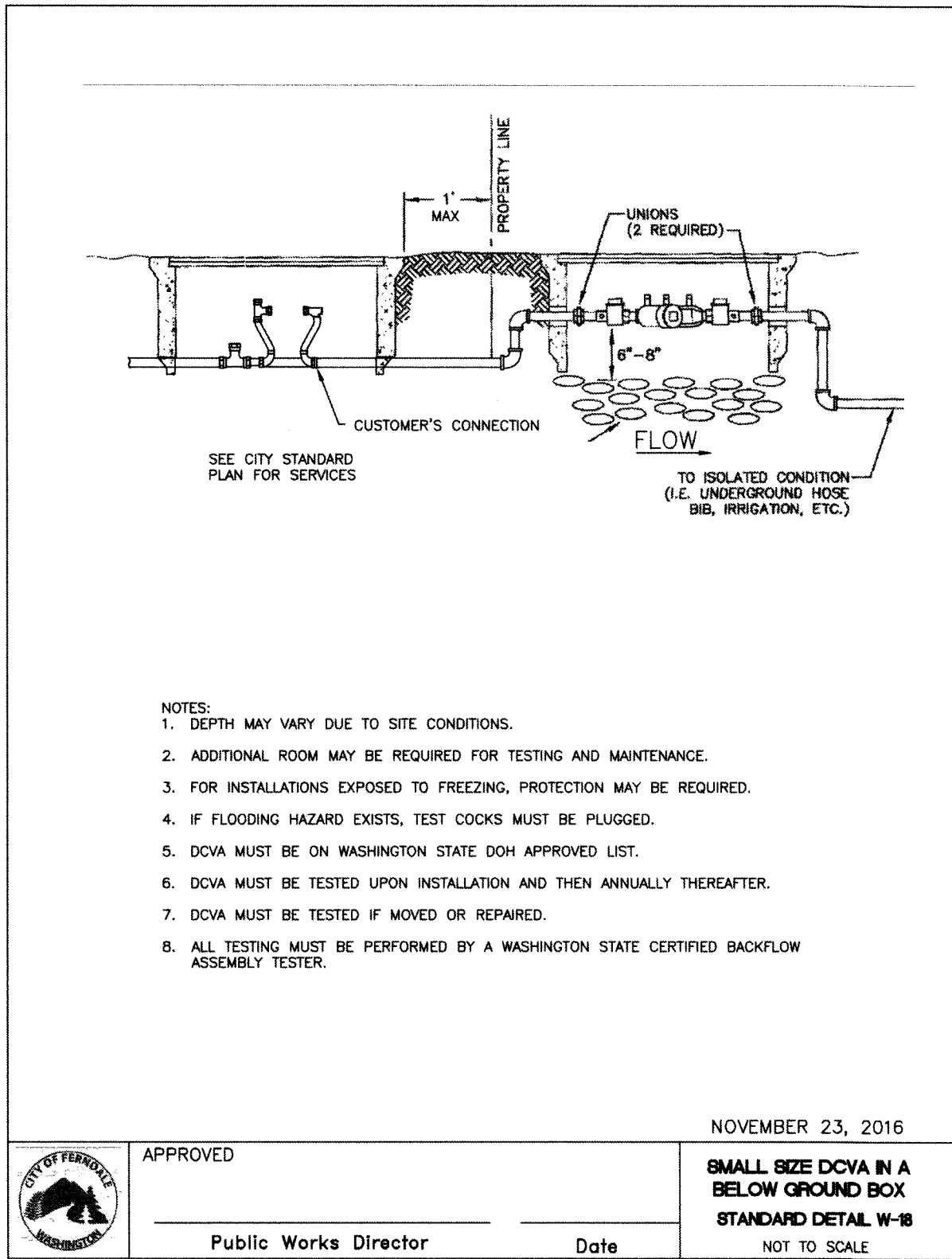
ADDITIONAL NOTES:

1. FDC PIPE SHALL PASS STRAIGHT THROUGH VAULT AS SHOWN ON SHEET C700.

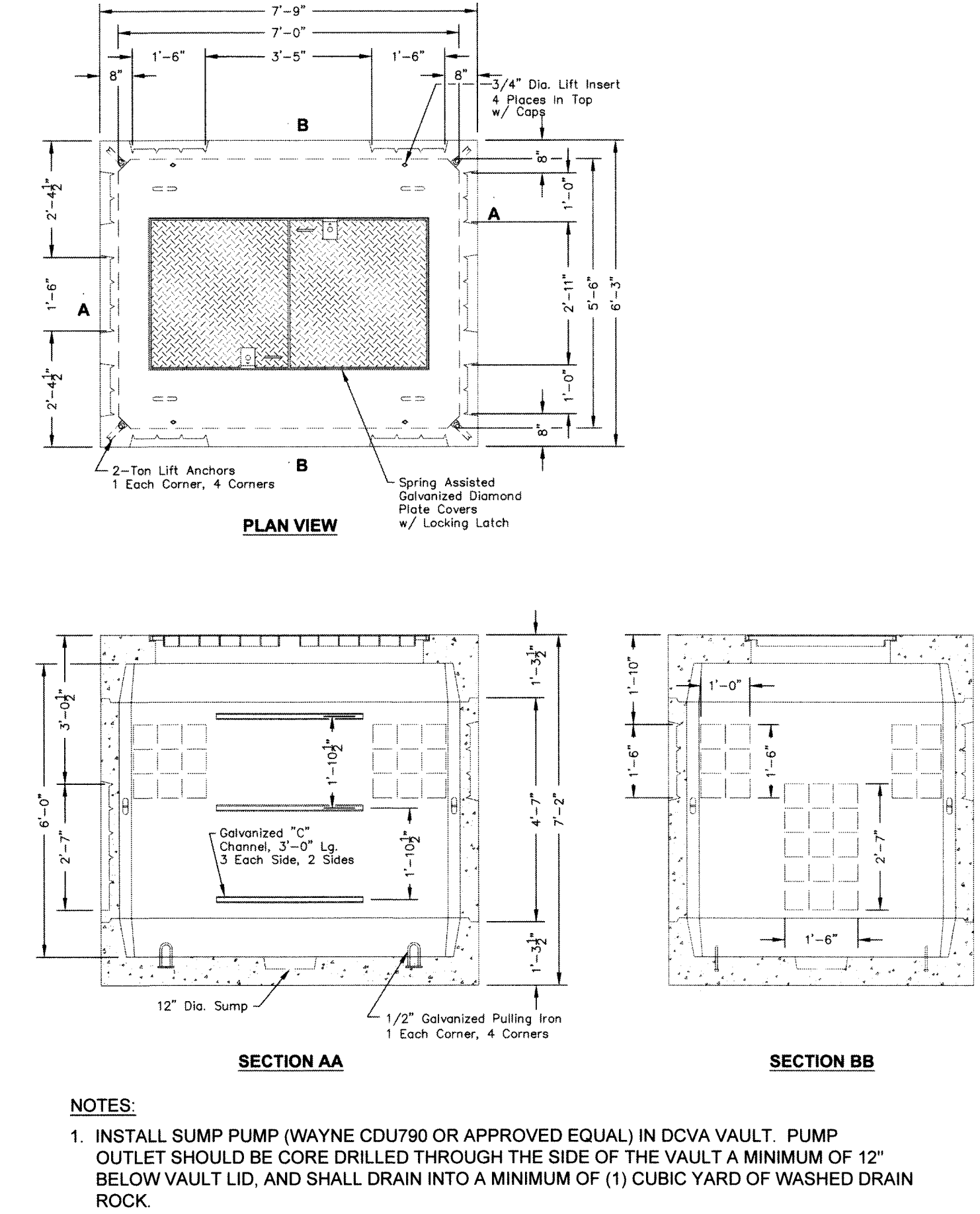
10 DOUBLE CHECK VALVE ASSEMBLY DETAIL
C700 N.T.S.



11 DOUBLE CHECK VALVE ASSEMBLY VAULT DETAIL
C700 N.T.S.



12 WATER METER BOX DETAIL
C700 N.T.S.



ENGINEER'S CERTIFICATION:

I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR THE UNITY CARE NW - FERDALE PROJECT HAVE BEEN INSPECTED BY MARK BUEHRER AND HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERDALE DEVELOPMENT STANDARDS, THE CITY OF FERDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE.

APPROVED

JUN 1 2019

MARK BUEHRER

CITY OF FERDALE

PUBLIC WORKS DEPARTMENT

811

Know what's below.
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RMC ARCHITECTS

2020 ENGINEERING

MARK S. BUEHRER

STATE OF WASHINGTON

203553

REGISTERED PROFESSIONAL ENGINEER

6-11-2019

RMC Architects PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P: 360.676.7733 • F: 360.738.0448 • www.rmcarchitects.com

Unity Care NW - Ferndale

Unity Care NW - Ferndale

6044 Portal Way

Ferndale, WA

Job No.:	2019-4-12
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4	AS BUILT SET 2019-06-11

UTILITY DETAILS (CONT.)

C711