

UO HOUSING CENTRAL KITCHEN & WOODSHOP

EUGENE, OR

11/7/2014 - GMP CONFORMED SET

GENERAL NOTES

- SURVEY PROVIDED BY FORD & ASSOCIATES, DATED 6/3/13. ELEVATIONS ARE BASED ON EUGENE NGVD29 VERTICAL DATUM ESTABLISHED PER BENCH MARK NO. 44981903 LOCATED AT THE NORTHEAST CORNER OF VILLARD HALL, IN THE NORTH FACE OF THE BUILDING, 2 INCHES BELOW THE DATE 1885 WITH AN ELEVATION OF 449.320.
- CONSTRUCTION LAYOUT (ALL ACTUAL LINES AND GRADES) SHALL BE STAKED BY A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF OREGON, BASED ON COORDINATES, DIMENSIONS, BEARINGS, AND ELEVATIONS, AS SHOWN, ON THE PLANS.
- PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE HORIZONTAL POSITION PRIOR TO BEGINNING CONSTRUCTION LAYOUT. SEE SHEET C2.0 FOR PROJECT CONTROL INFORMATION.
- PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE VERTICAL POSITION BASED ON THE BENCHMARK STATED HEREON, PRIOR TO BEGINNING CONSTRUCTION LAYOUT.
- WHEN DIMENSIONS AND COORDINATE LOCATIONS ARE REPRESENTED - DIMENSIONS SHALL HOLD OVER COORDINATE LOCATION. NOTIFY THE CIVIL ENGINEER OF RECORD IMMEDIATELY UPON DISCOVERY.
- BUILDING SETBACK DIMENSIONS FROM PROPERTY LINES SHALL HOLD OVER ALL OTHER CALLOUTS. PROPERTY LINES AND ASSOCIATED BUILDING SETBACKS SHALL BE VERIFIED PRIOR TO CONSTRUCTION LAYOUT.
- CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING MONUMENTATION DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT OF ANY MONUMENTS DAMAGED OR REMOVED DURING CONSTRUCTION. NEW MONUMENTS SHALL BE REESTABLISHED BY A LICENSED SURVEYOR.
- SOME SITE DEMOLITION AND UTILITY RELOCATION HAS BEEN PERFORMED. SURVEY MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR TO REFERENCE GEOTECHNICAL INVESTIGATION BY GRI DATED JUNE 11, 2013 FOR THE SITE SOILS CONDITIONS.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS, THE PROJECT SPECIFICATIONS AND THE APPLICABLE REQUIREMENTS OF THE 2008 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE 2011 OREGON PLUMBING SPECIALTY CODE, AND REQUIREMENTS OF THE CITY OF EUGENE.
- THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES AND REGULATIONS. ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES FOR THE EXECUTION AND COMPLETION OF WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
- ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987). EXCAVATORS MUST NOTIFY ALL PERTINENT COMPANIES OR AGENCIES WITH UNDERGROUND UTILITIES IN THE PROJECT AREA AT LEAST 48 BUSINESS-DAY HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS PRIOR TO COMMENCING AN EXCAVATION, SO UTILITIES MAY BE ACCURATELY LOCATED.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL VERIFY ELEVATIONS, PIPE SIZE, AND MATERIAL TYPES OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF KPFF CONSULTING ENGINEERS, 72 HOURS PRIOR TO START OF CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS.
- THE ENGINEER OR OWNER IS NOT RESPONSIBLE FOR THE SAFETY OF THE CONTRACTOR OR HIS CREW. ALL O.S.H.A. REGULATIONS SHALL BE STRICTLY ADHERED TO IN THE PERFORMANCE OF THE WORK.
- TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE IMPLEMENTED. THE CONTRACTOR SHALL ADHERE TO CITY OF EUGENE AND 1200-CN PERMIT FOR MINIMUM EROSION CONTROL MEASURES. THE ESC FACILITIES SHOWN IN THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ROADWAYS, KEEPING THEM CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS, AND PROVIDING DUST CONTROL AS REQUIRED.
- TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO CITY OF EUGENE AND UNIVERSITY OF OREGON FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN ALL UTILITIES SERVING THE UNIVERSITY OF OREGON AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH THE OWNER.
- NOTIFY EUGENE INSPECTOR 72 HOURS BEFORE STARTING WORK. A PRECONSTRUCTION MEETING WITH THE OWNER, THE OWNER'S ENGINEER, CONTRACTOR AND THE CITY OF EUGENE REPRESENTATIVE SHALL BE REQUIRED.

CONSTRUCTION NOTES

DEMOLITION

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF EXISTING AC, CURBS, SIDEWALKS AND OTHER SITE ELEMENTS WITHIN THE SITE AREA IDENTIFIED IN THE PLANS.
- EXCEPT FOR MATERIALS INDICATED TO BE STOCKPILED OR TO REMAIN ON OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY, REMOVED FROM THE SITE, AND DISPOSED OF PROPERLY.
- ITEMS INDICATED TO BE SALVAGED SHALL BE CAREFULLY REMOVED AND DELIVERED STORED AT THE PROJECT SITE AS DIRECTED BY THE OWNER.
- ALL LANDSCAPING, PAVEMENT, CURBS AND SIDEWALKS, BEYOND THE IDENTIFIED SITE AREA, DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED TO THEIR ORIGINAL CONDITION OR BETTER.
- CONCRETE SIDEWALKS SHOWN FOR DEMOLITION SHALL BE REMOVED TO THE NEAREST EXISTING CONSTRUCTION JOINT.
- SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING AND NEW PAVEMENT.

UTILITIES

- ADJUST ALL INCIDENTAL STRUCTURES, MANHOLES, VALVE BOXES, CATCH BASINS, FRAMES AND COVERS, ETC. TO FINISHED GRADE.
- CONTRACTOR SHALL ADJUST ALL EXISTING AND/OR NEW FLEXIBLE UTILITIES (WATER, TV, TELEPHONE, ELEC., ETC.) TO CLEAR ANY EXISTING OR NEW GRAVITY DRAIN UTILITIES (STORM DRAIN, SANITARY SEWER, ETC.) IF CONFLICT OCCURS, UNLESS CONFLICT IS WITH NATURAL GAS. CONTACT NWNATURAL TO ADJUST ANY GAS LINES.
- CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR THE INSTALLATION OF OR ADJUSTMENT TO GAS, ELECTRICAL, POWER AND TELEPHONE SERVICE.
- BEFORE BACKFILLING ANY SUBGRADE UTILITY IMPROVEMENTS CONTRACTOR SHALL SURVEY AND RECORD MEASUREMENTS OF EXACT LOCATION AND DEPTH AND SUBMIT TO ENGINEER AND OWNER.

STORM AND SANITARY

- CONNECTIONS TO EXISTING STORM AND SANITARY SEWERS SHALL CONFORM TO THE 2008 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 00490, "WORK ON EXISTING SEWERS AND STRUCTURES".
- BEGIN LAYING STORM DRAIN AND SANITARY SEWER PIPE AT THE LOW POINT OF THE SYSTEM, TRUE TO GRADE AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERT. THE CONTRACTOR SHALL ESTABLISH LINE AND GRADE FOR THE STORM AND SANITARY SEWER PIPE USING A LASER.
- ALL ROOF DRAIN AND CATCH BASIN LEADERS SHALL HAVE A MINIMUM SLOPE OF 2 PERCENT UNLESS NOTED OTHERWISE IN THE PLANS.

WATER

- ALL WATER AND FIRE PROTECTION PIPE SHALL HAVE A MINIMUM 36-INCH COVER TO THE FINISH GRADE.
- ALL WATER AND FIRE PRESSURE FITTINGS SHALL BE PROPERLY RESTRAINED WITH THRUST BLOCKS PER DETAIL.
- ALL WATER MAIN / SANITARY SEWER CROSSINGS SHALL CONFORM TO THE OREGON STATE HEALTH DEPARTMENT REGULATIONS, CHAPTER 333.

EARTHWORKS

- CONTRACTOR SHALL PREVENT SEDIMENTS AND SEDIMENT LADEN WATER FROM ENTERING THE STORM DRAINAGE SYSTEM.
- TRENCH BEDDING AND BACKFILL SHALL BE AS SHOWN ON THE PIPE BEDDING AND BACKFILL DETAIL, THE PROJECT SPECIFICATIONS AND AS REQUIRED IN THE SOILS REPORT. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER WILL NOT BE PERMITTED.

ABBREVIATIONS

AC	ASPHALT CONCRETE	OVH/OH	OVERHEAD
AD	AREA DRAIN	P/L	PROPERTY LINE
APPROX	APPROXIMATE	PC	POINT OF CURVATURE
B	BOLLARD	PCC	POINT OF COMPOUND CURVATURE
BLDG	BUILDING	PCR	POINT OF CURB RETURN
BOW	BACK OF WALK	PED	PEDESTRIAN
BS	BOTTOM OF SWALE	PIV	POST INDICATOR VALVE
	BOTTOM OF STAIR	PM	PARKING METER
BW	BOTTOM OF WALL	POC	POINT ON CURVE
CB	CATCH BASIN	PP	POWER POLE
CL	CENTERLINE	PRC	POINT OF REVERSE CURVATURE
CMP	CORRUGATED METAL PIPE	PT	POINT OF TANGENT
CMU	CONCRETE MASONRY UNIT	P.U.E	PUBLIC UTILITY EASEMENT
CO	CLEANOUT	CO	POLYVINYL CHLORIDE
CONC.	CONCRETE	PVC	PAVEMENT
COTG	CLEANOUT TO GRADE	PVT	PRIVATE
CP	CONTROL POINT	R	RI
Δ	DELTA	RD	ROOF DRAIN
D/W	DRIVEWAY	RD	RIGHT-OF-WAY
DIA., ∅	DIAMETER	S	SLOPE (FT/FT)
DIP	DUCTILE IRON PIPE	SD	STORM DRAIN
E	EASTING	SDMH	STORM DRAIN MANHOLE
EXIST./EX	EXISTING	SHEET	SANITARY SEWER
FDC	FIRE DEPARTMENT CONNECTION	SS	SANITARY SEWER MANHOLE
FF	FINISH FLOOR ELEVATION	SSMH	STREET
FG	FINISH GRADE	ST	STATION
FH	FIRE HYDRANT	STA	STANDARD
FL	FLOWLINE	STD	STANDARD
FND	FOUNDATION	S/W	SIDEWALK
G	GUTTER	TC	TOP OF CURB
GB	GRADE BREAK	TD	TRENCH DRAIN
GL	GAS LINE	TG	TOP OF GROUND
GV	GATE VALVE	TP	TOP OF PAVEMENT
H	HEIGHT	TRANS.	TRANSFORMER
HCP	HANDICAP PARKING SPACE	TS	TOP OF STAIR
HP	HIGH POINT	TW	TOP OF WALL
ID	INSIDE DIAMETER	TY	TYPICAL
IE	INVERT ELEVATION	UG	UNDERGROUND
INV	INVERT	UGE	UNDERGROUND ELECTRIC
IRR.	IRRIGATION	W	WATER
LP	LIGHT POLE	W/	WITH
MH	MANHOLE	WCR	WHEEL CHAIR RAMP
MIN	MINIMUM	WM	WATER METER
N	NORTHING	WM	WATER VALVE
O.D	OUTSIDE DIAMETER		
OF	OUTFALL		

LOCAL UTILITY CONTACTS

UTILITY	COMPANY/CONTACT	PHONE NUMBER
• WATER	EWEB/CHRIS BIGELOW	(541) 685-7353
• SEWER	CITY OF EUGENE	(541) 682-5291
• GAS	NW NATURAL GAS	(541) 342-3661
• ELECTRIC	EWEB/RICH DELUNA	(541) 685-7148
• TELEPHONE	CENTURY LINK/JODY KALDHAL	(541) 484-7796

VEGETATED STORMWATER FACILITY NOTE

SUCCESSFUL CONSTRUCTION OF THE VEGETATED STORMWATER FACILITY DEPEND ON PROPER CONSTRUCTION SEQUENCING, MATERIALS, INSTALLATION, PROTECTION OF SUBGRADE AND EROSION CONTROL.

CONTRACTOR SHALL SETUP A PRE-CONSTRUCTION MEETING WITH CIVIL ENGINEER TO SPECIFICALLY DISCUSS THESE ITEMS. CONTACT ANNA BACKUS WITH KPFF CONSULTING ENGINEERS 541-684-4902.

SUBMITTAL REQUIREMENT: SUBMIT (1) 2 GALLON SAMPLE OF GROWING MEDIUM THAT MEETS THE SOIL SPECIFICATION FOR INFILTRATION TESTING BY KPFF FOR APPROVAL.

CONTRACTOR TO PERFORM INFILTRATION TESTS ON COMPLETED STORMWATER FACILITIES. KPFF TO BE INFORMED OF THE TESTING SO THAT THEY MAY OBSERVE IT. PROVIDE TEST RESULTS TO KPFF PRIOR TO PUNCH-LIST WALKTHROUGH. THE FACILITIES WILL NOT BE ACCEPTED IF THEY DO NOT MEET CITY OF EUGENE AND PROJECT SPECIFICATION REQUIREMENTS. SEE PROJECT SPECIFICATIONS FOR TESTING REQUIREMENTS.

OWNER / CONTRACTOR RESPONSIBILITIES

- OWNER OR CONTRACTOR TO OBTAIN, COMPLETE, AND SUBMIT SERVICE APPLICATIONS FOR EWEB (WATER AND POWER), NORTHWEST NATURAL GAS, AND TELECOM.
- CONTRACTOR TO COORDINATE INSTALLATION OF EWEB SERVICES.
- CONTRACTOR OR OWNER RESPONSIBLE FOR FEES ASSOCIATED WITH SERVICE CONNECTIONS FROM FRANCHISE UTILITIES, INCLUDING EWEB AND NORTHWEST NATURAL.
- CONTRACTOR TO COORDINATE DESIGN AND INSTALLATION OF NORTHWEST NATURAL GAS SERVICE. LOCATIONS OF SERVICE AND METERS SHOWN ON THE PLANS ARE FOR INFORMATION ONLY. NORTHWEST NATURAL WILL DESIGN FINAL LOCATION AND ROUTING.
- CONTRACTOR RESPONSIBLE FOR UNDERGROUND FIRE LINE SUBMITTAL TO THE EUGENE FIRE MARSHAL'S OFFICE. SUBMITTAL SHALL INCLUDE THREE SETS OF SHOP DRAWINGS WITH PIPE MATERIAL, TRENCH DETAIL, VALVES, CONNECTION AND RESTRAINT DETAILS, FIRE DEPARTMENT CONNECTION LOCATION, AND HYDRANT TYPE AND LOCATION (IF APPLICABLE). SUBMITTAL MUST BE APPROVED BY FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION.

NOTICE TO EXCAVATORS:
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(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987).

POTENTIAL UNDERGROUND FACILITY OWNERS
Dig Safely.
Call the Oregon One-Call Center
1-800-332-2344

CIVIL SHEET INDEX

SHEET NO.	SHEET TITLE	SHEET DESCRIPTION
1	C1.0	CIVIL NOTES & ABBREVIATIONS
2	C2.0	UTILITY PLAN
3	C3.0	CIVIL DETAILS
4	C3.1	CIVIL DETAILS



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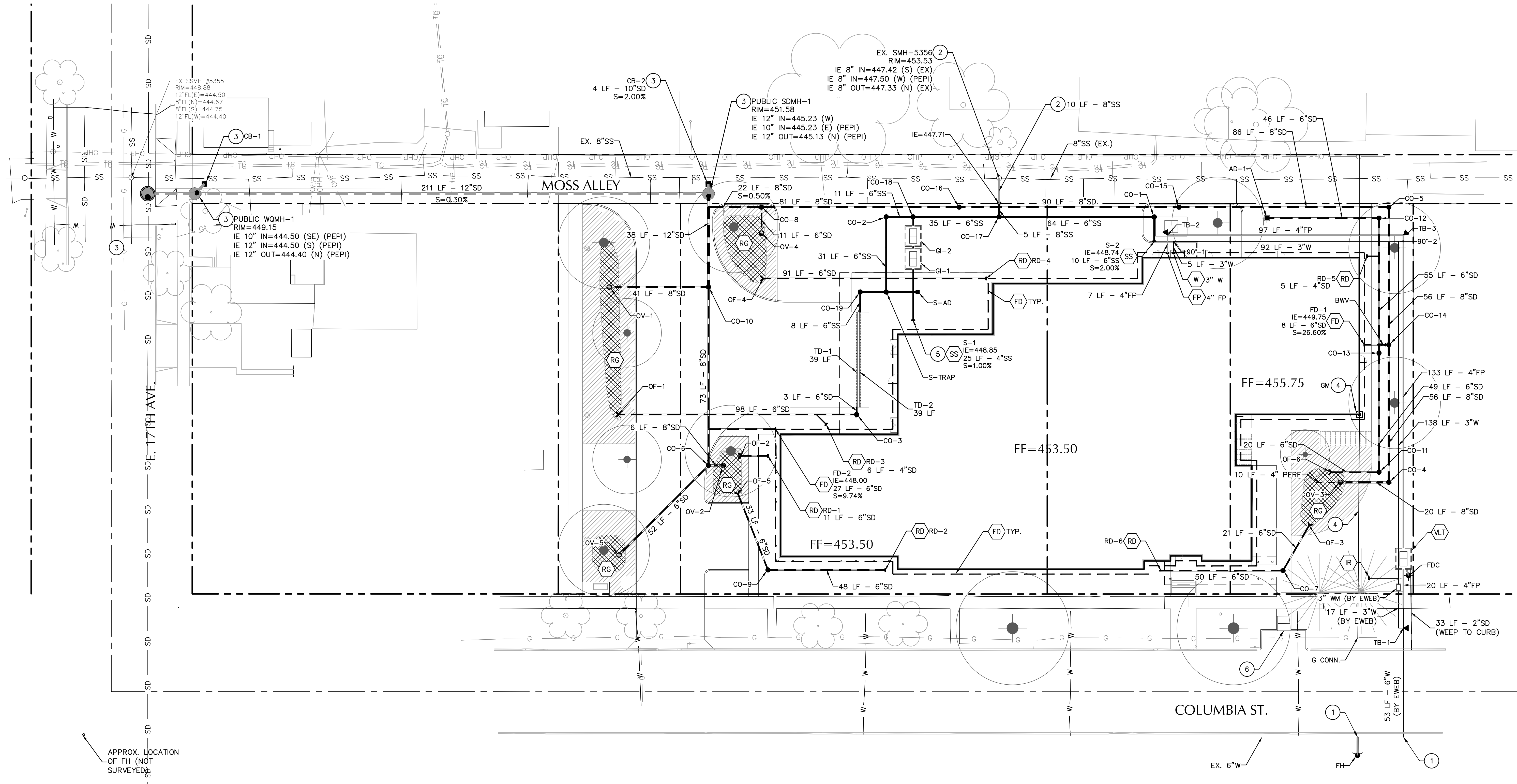
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CIVIL NOTES & ABBREVIATIONS

Drawn By ALB
Checked MK
Date 7 NOV 2014
Project 1407

C1.0

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SHEET NOTES

- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 1/C3.0.
- STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.
- INSTALL THRUST BLOCK ON FIRE AND WATER LINES PER DETAIL 11/C3.0.

KEY NOTES

- COORDINATE WATER SERVICE CONSTRUCTION SCHEDULE AND POINT OF CONNECTION TO EXISTING 8" MAIN WITH EWB. EWB TO INSTALL WATER SERVICE TO METER AND FURNISH AND INSTALL METER AT OWNER'S EXPENSE. EWB TO INSTALL FP SERVICE TO PROPERTY LINE.
- CONNECT TO EXISTING PIPE OR STRUCTURE, IE AS NOTED.
- PIPE OR STRUCTURE TO BE DESIGNED AND INSTALLED UNDER SEPARATE PEPI PERMIT.
- GAS PIPING, VALVES, FITTINGS, AND METER SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE FINAL DESIGN AND LOCATION WITH NW NATURAL.
- CONNECT TO BUILDING VENT AND AUTO-PRIME.
- ADA PARKING WITHIN R.O.W. TO BE DESIGNED AND INSTALLED UNDER SEPARATE PEPI PERMIT.

UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE, SS=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
 STRUCTURE TYPE CALLOUT
 ID NUMBER (WHERE APPLICABLE)

XX XX-XX
 X+XX.X RT X.X' → LOCATION (WHERE APPLICABLE)
 RIM= →
 IE IN = XX.X → STRUCTURE INFO (WHERE APPLICABLE)
 IE OUT = XX.X →

PIPE LABEL

UTILITY LENGTH
 UTILITY SIZE
 UTILITY TYPE

XXLF - XX' XX
 S=X.XXX%
 → SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	2
BWV	BACKWATER VALVE	3
CB	TRAPPED CATCH BASIN	4
CO	CLEANOUT TO GRADE	4
CONN	CONNECTION	
FD	FOUNDATION DRAINAGE CONN.	2
FDC	FIRE DEPARTMENT CONNECTION	4
FH	FIRE HYDRANT (BY EWB)	
GI	GREASE INTERCEPTOR	
OF	OUTFALL	7
OV	OVERFLOW INLET	9
SMH	48" DIA. SANITARY MH	3
SDMH	48" DIA. STORM DRAIN MH	3
TB	THRUST BLOCK	11
TD	TRENCH DRAIN	6
WM	WATER METER	
WQM	WATER QUALITY MANHOLE	

SHEET LEGEND

- (VLT) COMBINATION 4" FIRE AND 3" DOMESTIC WATER BACKFLOW AND VAULT. PROVIDE POWER TO VAULT FOR SUMP PUMP.
- (W) CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.
- (G) CONNECT TO GAS METER. CONTRACTOR TO COORDINATE WITH GAS COMPANY. SEE PLUMBING FOR CONTINUATION.
- (IR) IRRIGATION POINT OF CONNECTION. SEE IRRIGATION PLANS FOR CONTINUATION.
- (FP) CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.
- (FD) PERIMETER FOUNDATION DRAIN. PROTECT WITH SYSTEM. IE AS NOTED.
- (SS) CONNECT TO WASTE LINE. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.
- (SD) CONNECT TO STORM DRAIN/ROOF DRAIN. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AND IE AS NOTED.
- (RG) VEGETATED RAIN GARDEN
- (H) POTHOLE EXISTING UTILITY FOR CROSSING OR CONNECTION PRIOR TO CONSTRUCTION. REPORT ELEVATION, SIZE, AND HORIZONTAL LOCATION TO KPFF. PROVIDE 12" MIN. CLEARANCE FOR CROSSINGS, U.N.O.

GMP CONFORMED SET
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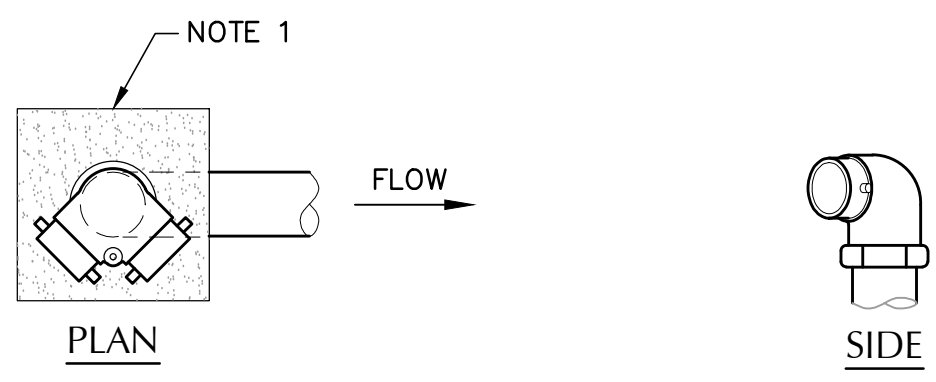
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 220 Oak Street, Suite 100, Eugene, OR 97401
 Phone: 541.345.4302
 Engineers: Eugene, Irvine, Long Beach, Los Angeles, New York, Pasadena, Phoenix, Portland, St. Louis, Sacramento, San Diego, San Francisco, Seattle, Tacoma, Walnut Creek

UTILITY PLAN

Drawn By: ALB
 Checked: MK
 Date: 7 NOV 2014
 Project: 1407



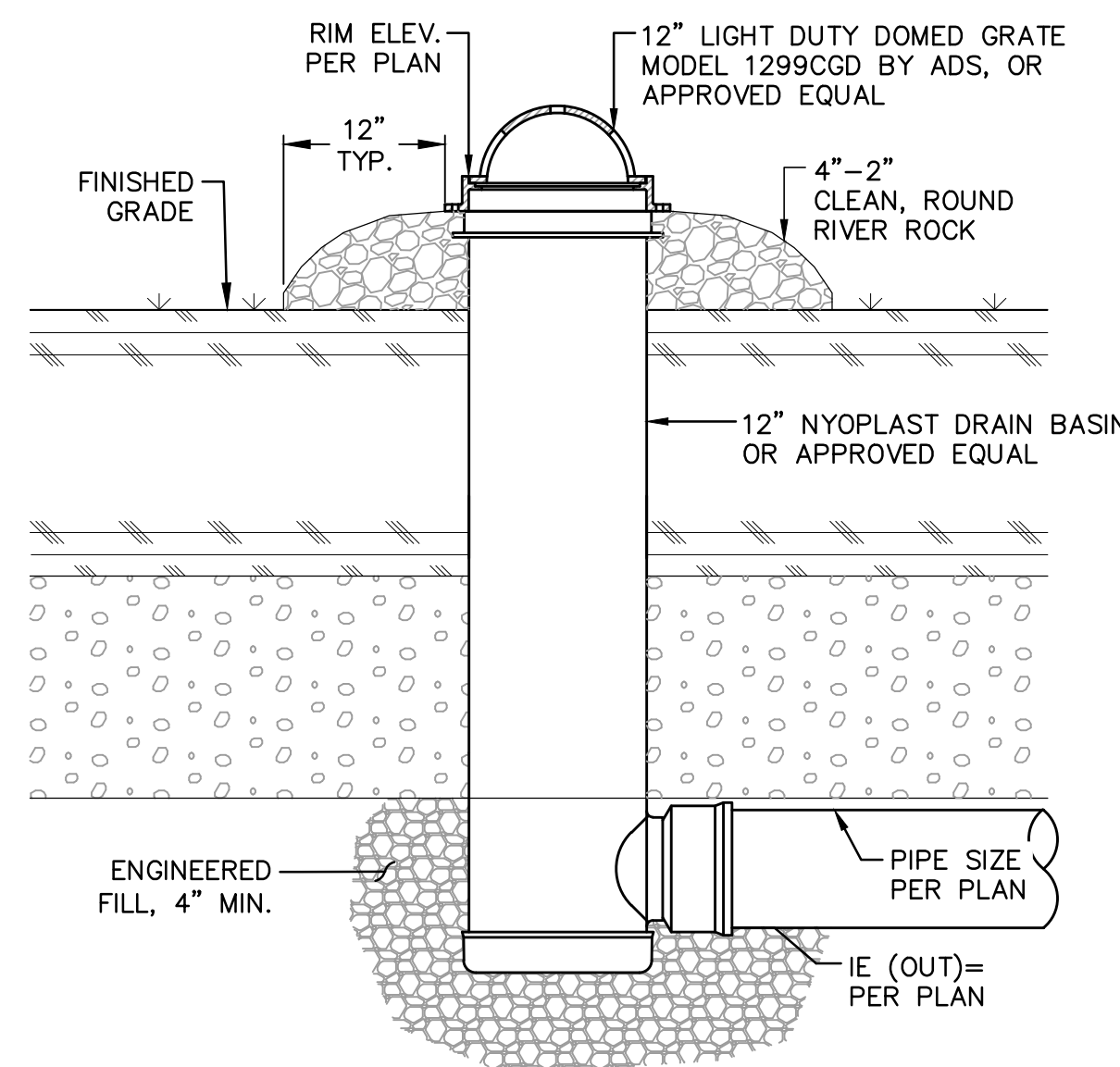
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- NOTES:**
1. CONCRETE ANCHOR PAD TO BE 12"x12"x6" THICK, UNLESS NOTED OTHERWISE. ELIMINATE IF INSTALLED IN CONCRETE PAVED AREA.
 2. USE FLANGE OR THREADED FITTINGS.
 3. CONTRACTOR SHALL PROVIDE SINGLE CHECK VALVE AND BALL DRIP VALVE IN ACCESSIBLE LOCATION INSIDE DDCV VAULT. COORDINATE WITH PLUMBING.

FIRE DEPARTMENT CONNECTION (FDC) DUAL PORT

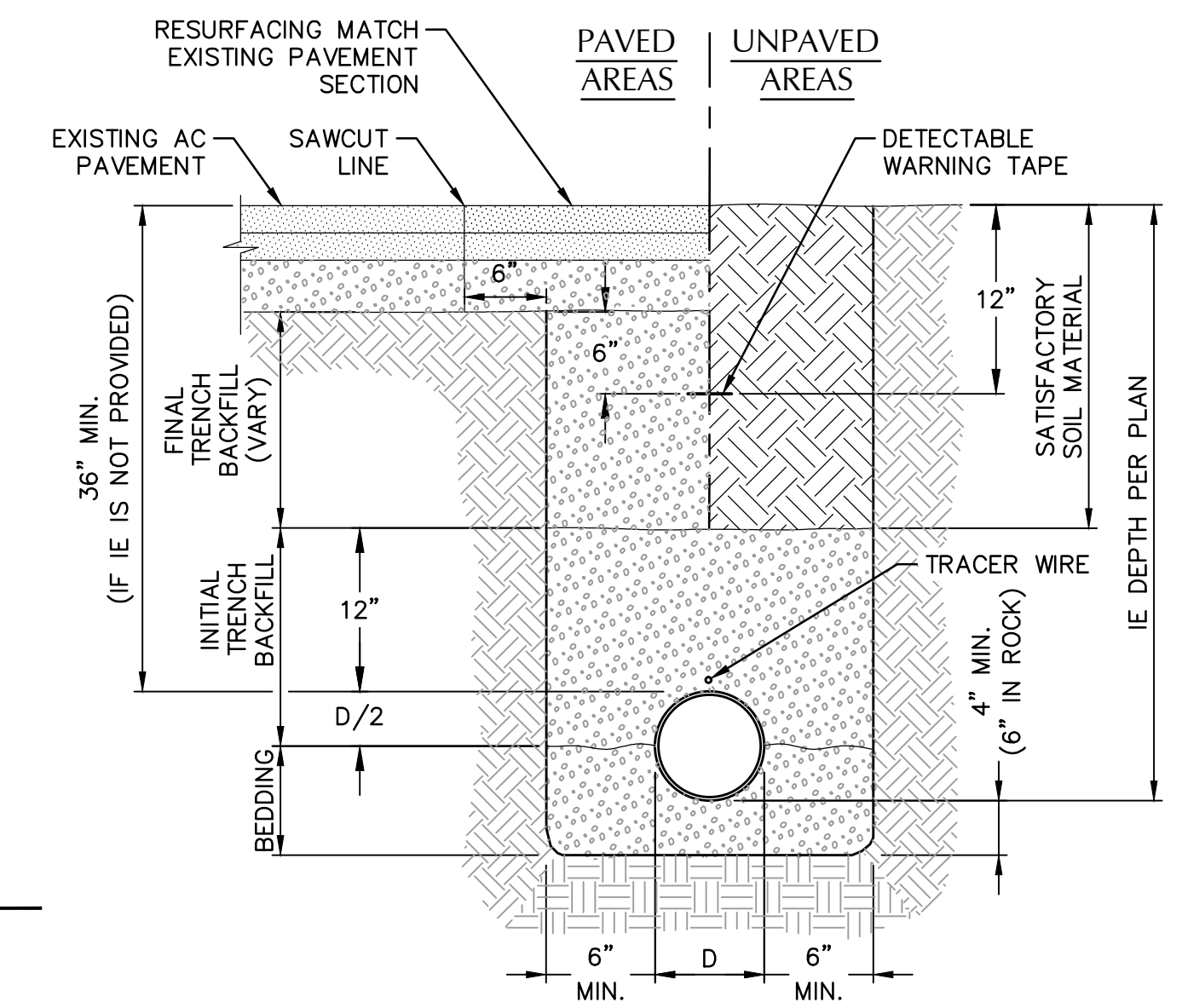
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- NOTES:**
1. LAY PERFORATED DRAIN PIPE ON MIN. 0.5% GRADIENT, WIDENING EXCAVATION AS REQUIRED. MAINTAIN PIPE ABOVE 2:1 SLOPE AS SHOWN.
 2. CONNECT TO FOUNDATION DRAIN SUBTOOT SHOWN ON PLANS.

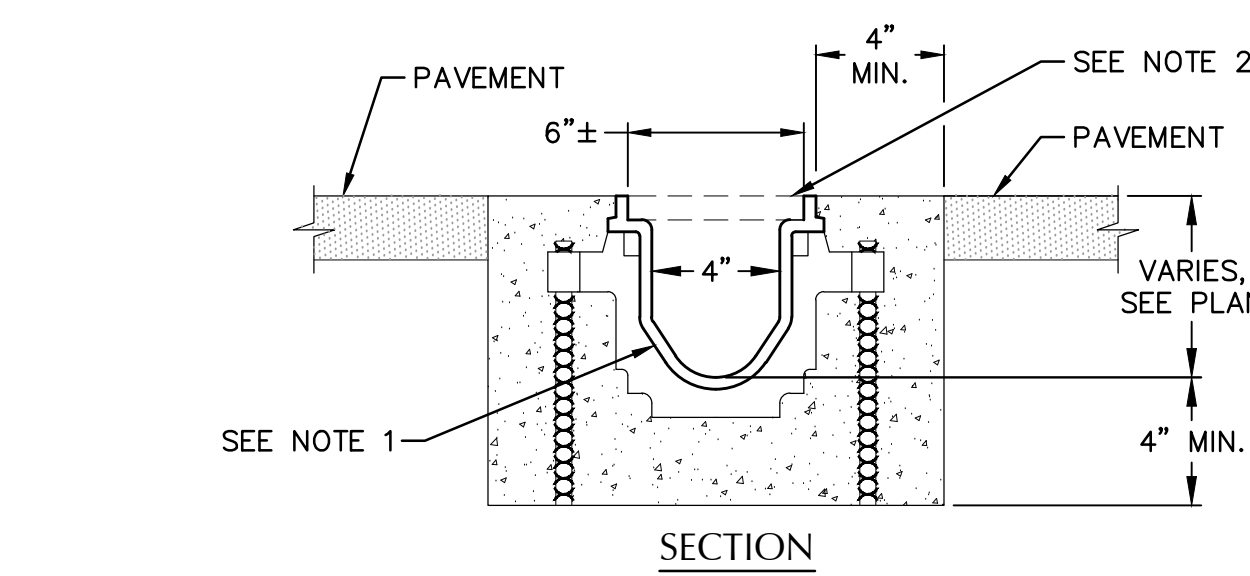
PERIMETER FOUNDATION DRAIN

SCALE: NTS



TYPICAL PIPE BEDDING AND BACKFILL

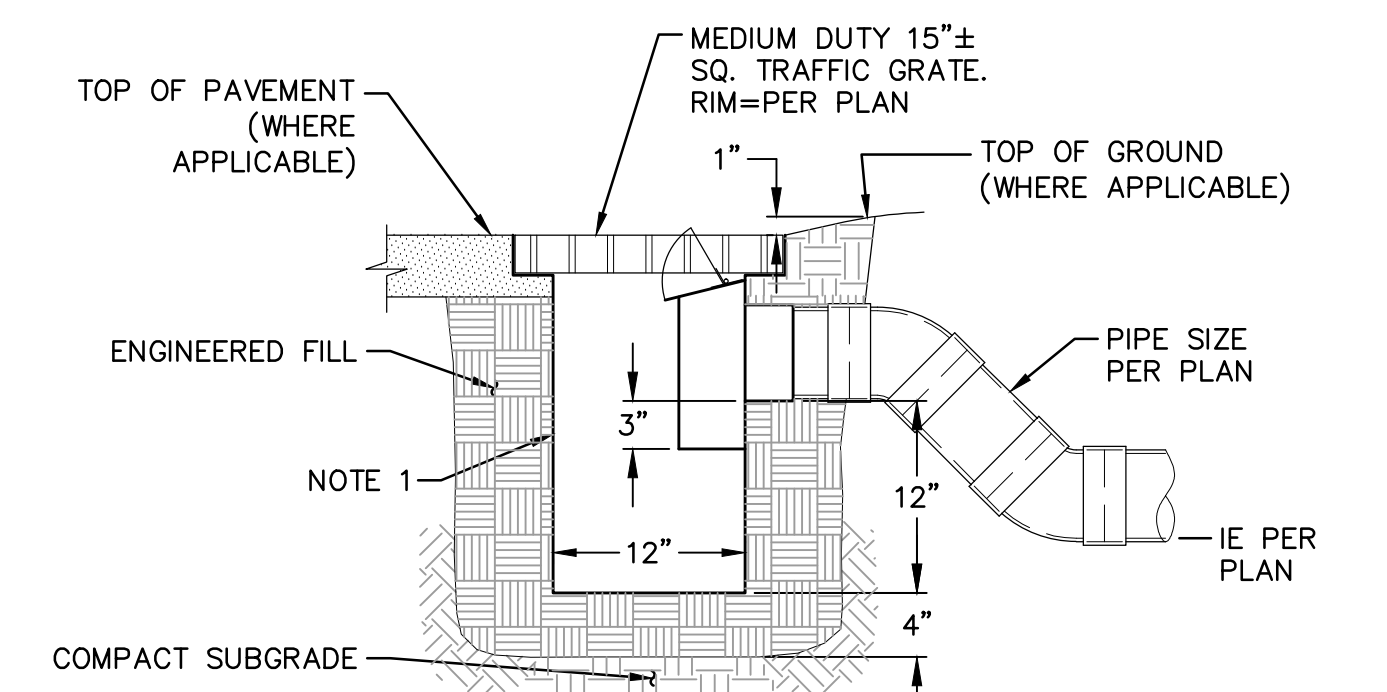
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- NOTES:**
1. TRENCH DRAIN SHALL BE NEUTRAL-SLOPED 6" WIDE ZURN OR ACO TRENCH DRAIN OR APPROVED EQUAL.
 2. TRENCH DRAIN GRATE SHALL BE LOCKABLE HEAVY DUTY TRENCH GRATE - CLASS C.
 3. TRENCH SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

TRENCH DRAIN - 6 INCH WIDE

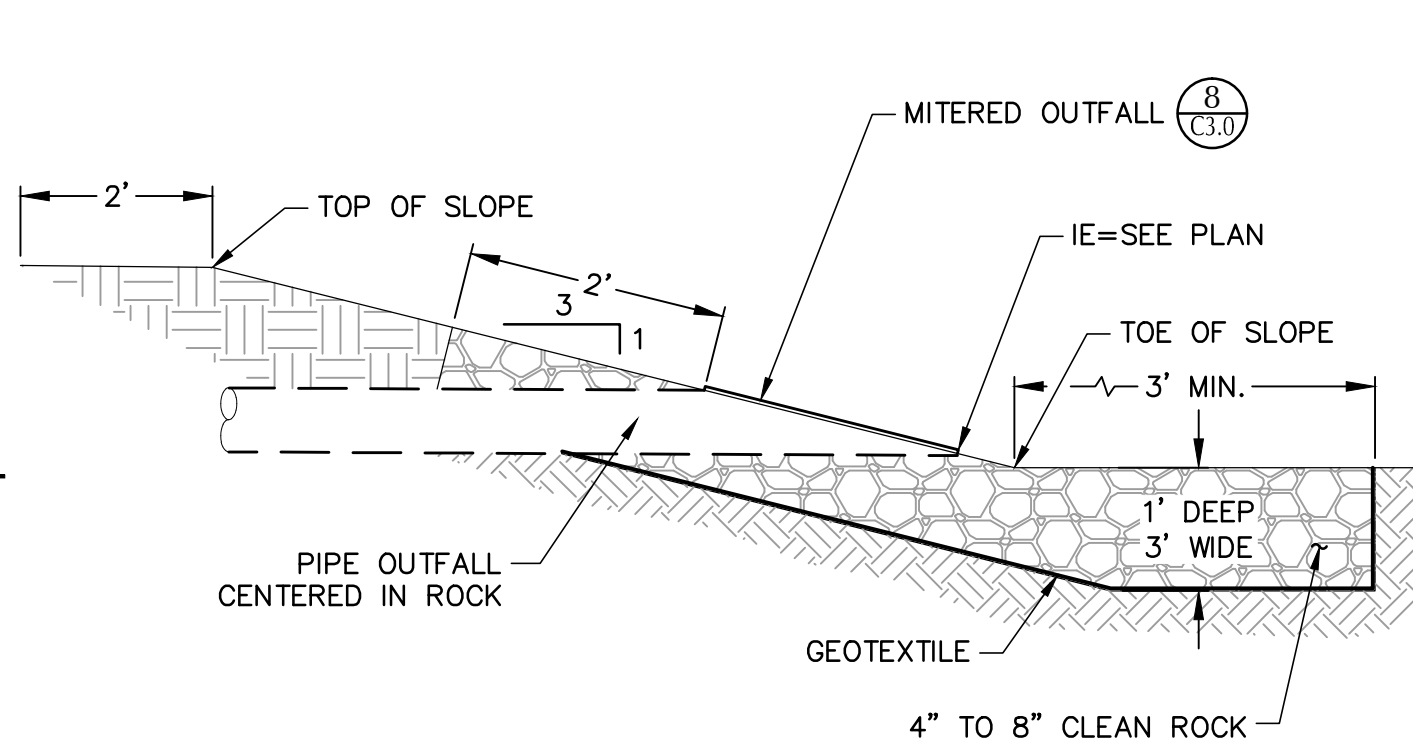
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- NOTE:**
1. TO GAGE STEEL PLATE, BITUMINOUS COATED, AS MANUFACTURED BY GIBSON STEEL BASINS OR APPROVED EQUAL.

TRAPPED AREA DRAIN

SCALE: NTS

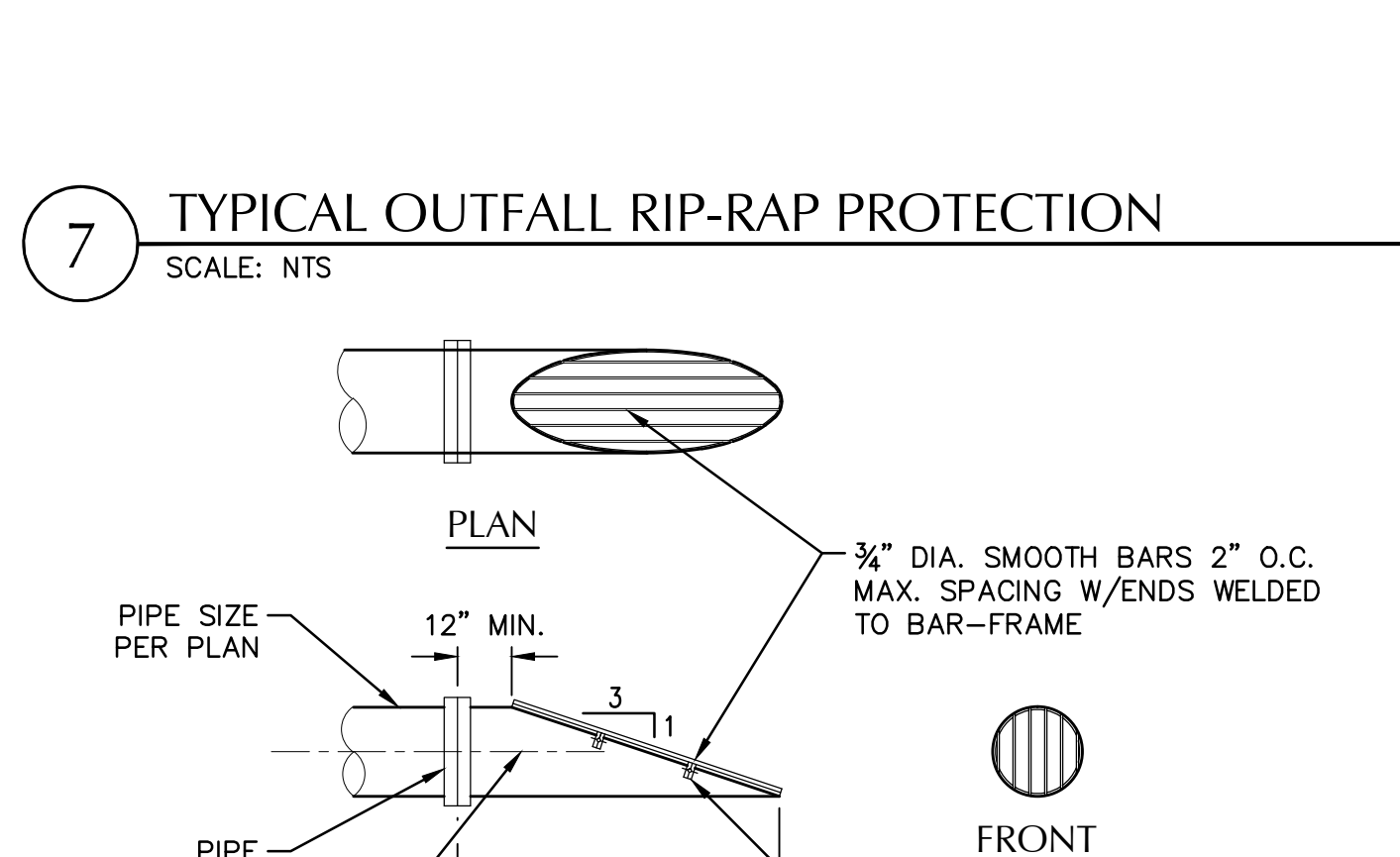


- NOTE:**
1. INSTALL 2" THICK LAYER OF PEA GRAVEL.
 2. PROVIDE 2 GALLON SAMPLE TO KPFF PRIOR TO INSTALLATION.

PRIOR TO PROJECT PUNCH-LIST WALKTHROUGH, CONTRACTOR WILL BE REQUIRED TO PERFORM INFILTRATION TESTS ON THE RAIN GARDENS. TEST RESULTS MUST BE PROVIDED TO KPFF. IF THE INFILTRATION TESTS DO NOT MEET REQUIREMENTS OF CITY OF EUGENE AND PROJECT SPECIFICATIONS, THE STORMWATER FACILITY WILL NOT BE ACCEPTED.

RAIN GARDEN (FILTRATION)

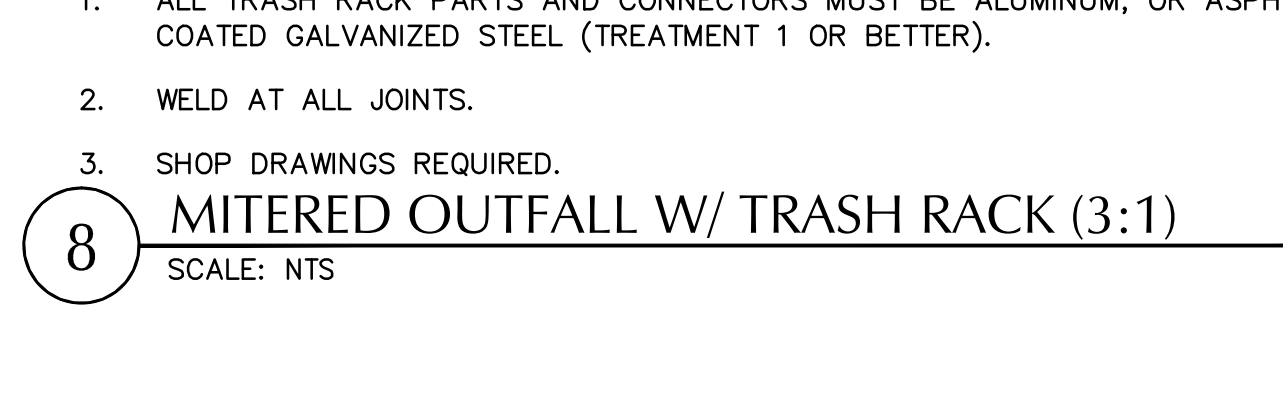
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1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.
3. THE REQUIRED THRUST BEARING AREAS FOR SPECIAL CONNECTIONS ARE SHOWN ENCLOSED ON THE PLAN; E.G. 15 INDICATES 15 SQUARE FEET BEARING AREA REQUIRED.
4. IF NOT SHOWN ON PLANS REQUIRED BEARING AREAS AT FITTING SHALL BE AS INDICATED BELOW, ADJUST IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS (ES) STATED IN THE SPECIAL SPECIFICATIONS.
5. BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS STANDARD DETAIL.

MITERED OUTFALL W/ TRASH RACK (3:1)

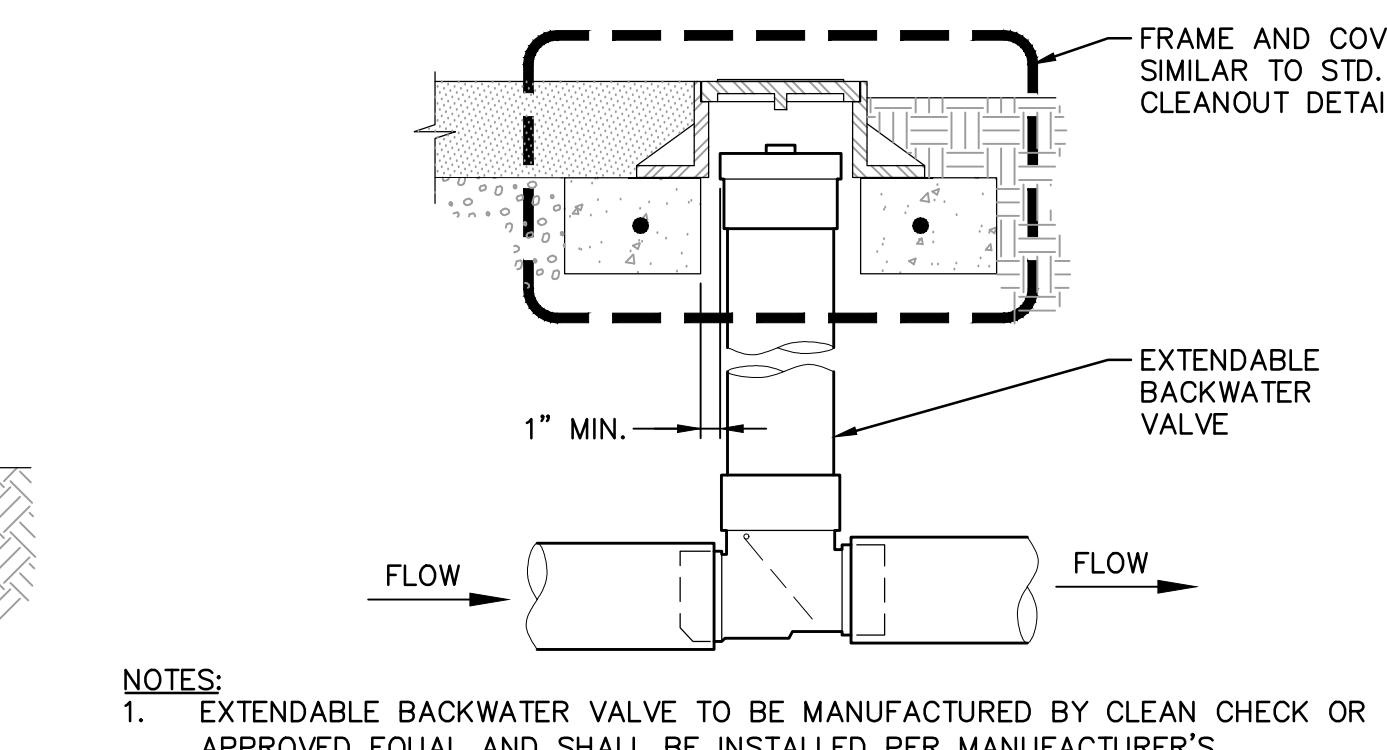
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- NOTES:**
1. ALL TRASH RACK PARTS AND CONNECTORS MUST BE ALUMINUM, OR ASPHALT COATED GALVANIZED STEEL (TREATMENT 1 OR BETTER).
 2. WELD AT ALL JOINTS.
 3. SHOP DRAWINGS REQUIRED.

STANDARD CLEANOUT (COTG)

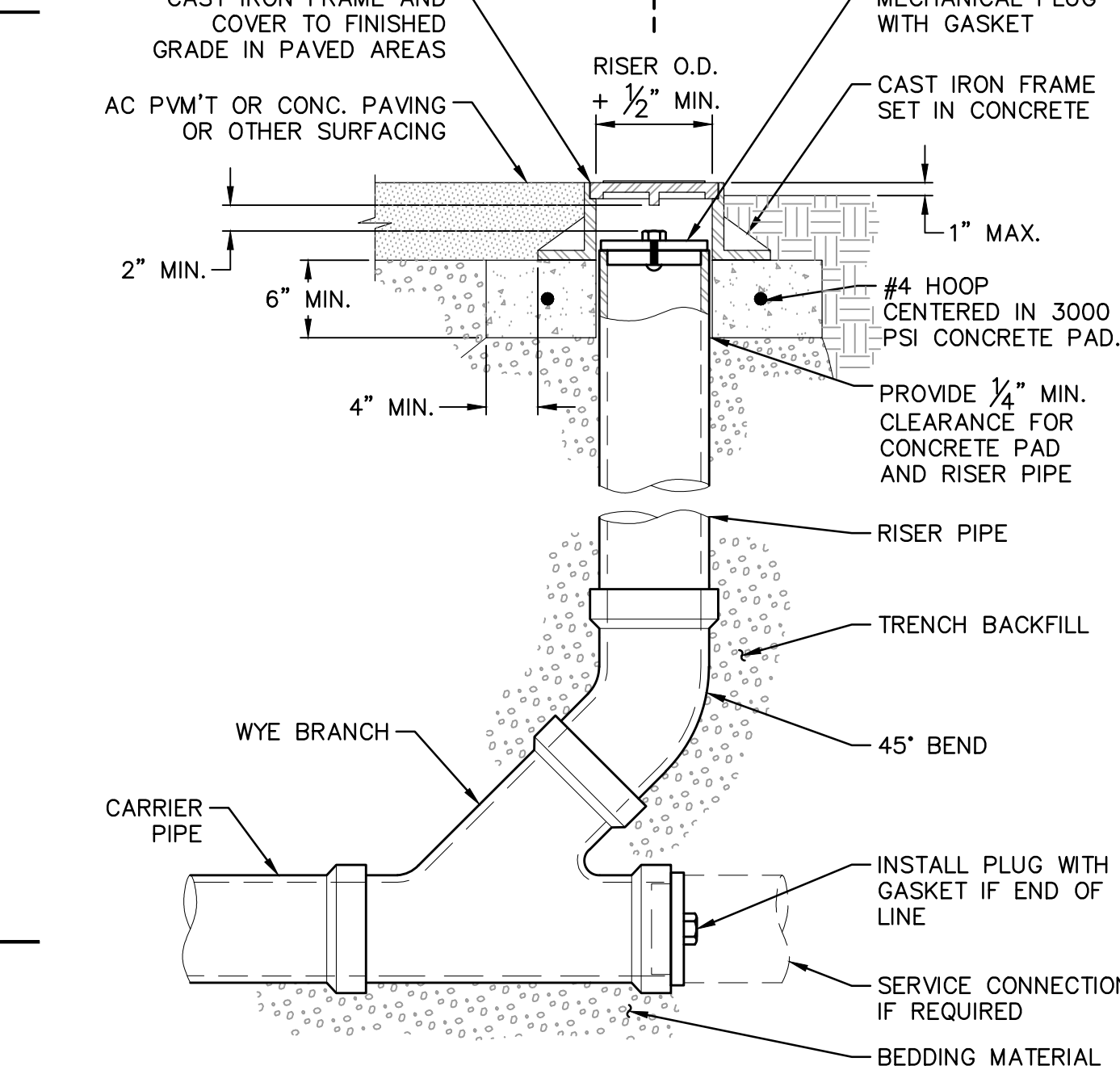
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- NOTES:**
1. EXTENDABLE BACKWATER VALVE TO BE MANUFACTURED BY CLEAN CHECK OR APPROVED EQUAL AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

EXTENDABLE BACKWATER VALVE

SCALE: NTS

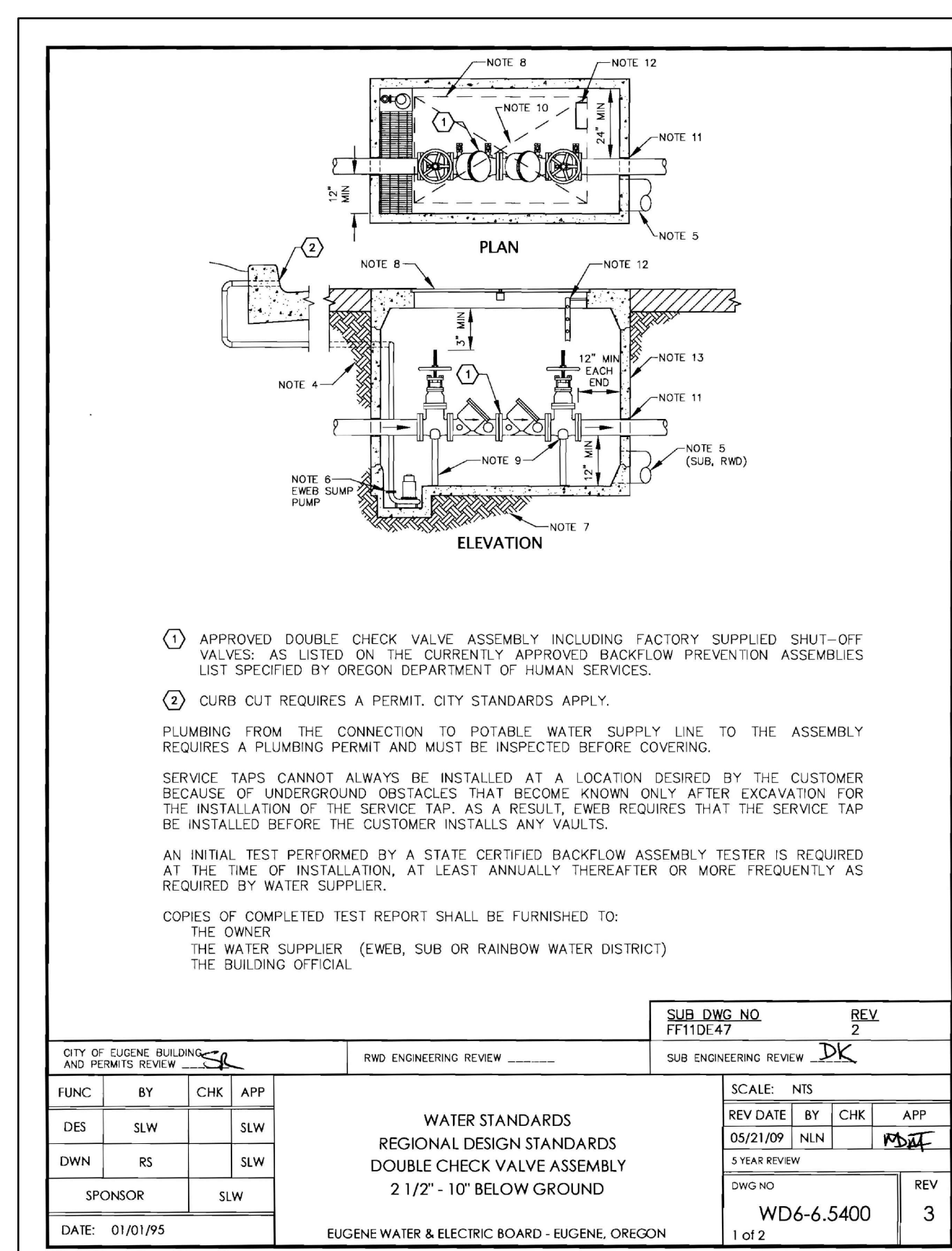


- NOTES:**
1. CAST IRON FRAME AND COVER SHALL MEET H-20 LOAD REQUIREMENT.
 2. FOR CARRIER PIPE SIZE 6" AND LESS, PROVIDE RISER PIPE SIZE TO MATCH CARRIER PIPE.
 3. FOR CARRIER PIPE SIZE 8" AND LARGER, RISER PIPE SHALL BE 6".
 4. RISER PIPE MATERIAL TO MATCH CARRIER PIPE MATERIAL.

STANDARD CLEANOUT (COTG)

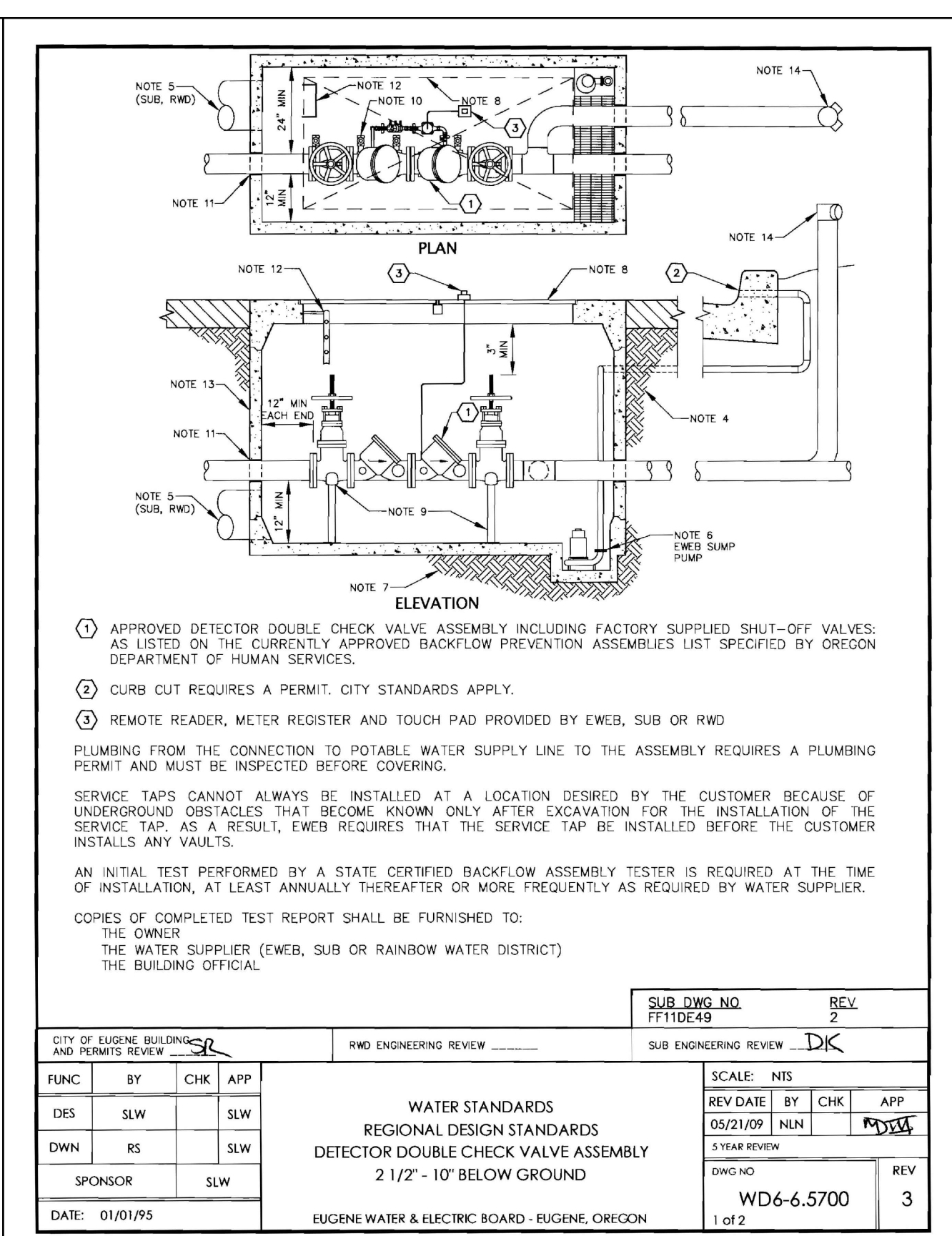
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12



- NOTES:**
1. APPROVED DOUBLE CHECK VALVE ASSEMBLY INCLUDING FACTORY SUPPLIED SHUT-OFF VALVES AS LISTED ON THE CURRENTLY APPROVED BACKFLOW PREVENTION ASSEMBLIES LIST SPECIFIED BY OREGON DEPARTMENT OF HUMAN SERVICES.
 2. CURB CUT REQUIRES A PERMIT. CITY STANDARDS APPLY.
 3. PLUMBING FROM THE CONNECTION TO POTABLE WATER SUPPLY LINE TO THE ASSEMBLY REQUIRES A PLUMBING PERMIT AND MUST BE INSPECTED BEFORE COVERING.
 4. SERVICE TAPS CANNOT ALWAYS BE INSTALLED AT A LOCATION DESIRED BY THE CUSTOMER BECAUSE OF UNDERGROUND OBSTACLES THAT BECOME KNOWN ONLY AFTER EXCAVATION FOR THE INSTALLATION OF THE SERVICE TAP. AS A RESULT, EWB REQUIRES THAT THE SERVICE TAP BE INSTALLED BEFORE THE CUSTOMER INSTALLS ANY VALVES.
 5. AN INITIAL TEST PERFORMED BY A STATE CERTIFIED BACKFLOW ASSEMBLY TESTER IS REQUIRED AT THE TIME OF INSTALLATION, AT LEAST ANNUALLY THEREAFTER OR MORE FREQUENTLY AS REQUIRED BY THE WATER SUPPLIER (EWB, SUB OR RAINBOW WATER DISTRICT).
 6. COPIES OF COMPLETED TEST REPORT SHALL BE FURNISHED TO: THE OWNER, THE WATER SUPPLIER (EWB, SUB OR RAINBOW WATER DISTRICT) AND THE BUILDING OFFICIAL.

FUNC.	BY	CHK	APP	SCALE	REV
DES	SLW	SLW	SLW	1/8" = 1'-0"	1
DWN	RS	SLW	SLW	1/8" = 1'-0"	2
SPONSOR	SLW			1/8" = 1'-0"	3



- NOTES:**
1. APPROVED DETECTOR DOUBLE CHECK VALVE ASSEMBLY INCLUDING FACTORY SUPPLIED SHUT-OFF VALVES AS LISTED ON THE CURRENTLY APPROVED BACKFLOW PREVENTION ASSEMBLIES LIST SPECIFIED BY OREGON DEPARTMENT OF HUMAN SERVICES.
 2. CURB CUT REQUIRES A PERMIT. CITY STANDARDS APPLY.
 3. REMOTE READER, METER REGISTER AND TOUCH PAD PROVIDED BY EWB, SUB OR RWD. PLUMBING FROM THE CONNECTION TO POTABLE WATER SUPPLY LINE TO THE ASSEMBLY REQUIRES A PLUMBING PERMIT AND MUST BE INSPECTED BEFORE COVERING.
 4. SERVICE TAPS CANNOT ALWAYS BE INSTALLED AT A LOCATION DESIRED BY THE CUSTOMER BECAUSE OF UNDERGROUND OBSTACLES THAT BECOME KNOWN ONLY AFTER EXCAVATION FOR THE INSTALLATION OF THE SERVICE TAP. AS A RESULT, EWB REQUIRES THAT THE SERVICE TAP BE INSTALLED BEFORE THE CUSTOMER INSTALLS ANY VALVES.
 5. AN INITIAL TEST PERFORMED BY A STATE CERTIFIED BACKFLOW ASSEMBLY TESTER IS REQUIRED AT THE TIME OF INSTALLATION, AT LEAST ANNUALLY THEREAFTER OR MORE FREQUENTLY AS REQUIRED BY WATER SUPPLIER.
 6. COPIES OF COMPLETED TEST REPORT SHALL BE FURNISHED TO: THE OWNER, THE WATER SUPPLIER (EWB, SUB OR RAINBOW WATER DISTRICT) AND THE BUILDING OFFICIAL.

FUNC.	BY	CHK	APP	SCALE	REV
DES	SLW	SLW	SLW	1/8" = 1'-0"	1
DWN	RS	SLW	SLW	1/8" = 1'-0"	2
SPONSOR	SLW			1/8" = 1'-0"	3

1. PLACE BOTH BACKFLOW DEVICES IN A SINGLE, CONCRETE VAULT. CONTRACTOR TO SIZE VAULT BASED ON CLEARANCES AND REQUIREMENTS SHOWN ABOVE AND SIZE OF BACKFLOW PREVENTERS SELECTED. VAULT SELECTED TO BE SMALLEST SIZE POSSIBLE. SIZE SHOWN ON PLANS FOR REFERENCE ONLY.
2. CONTRACTOR TO DESIGN BALLAST, AS NECESSARY.
3. CONTRACTOR SHALL PROVIDE POWER TO SUMP PUMP AND HIGH WATER DETECTOR IN VAULT.
4. CONTRACTOR TO PROVIDE A HIGH WATER ALARM NEAR THE MAIN ALARM PANEL.
5. VAULT DRAINAGE FROM SUMP PUMP SHALL DAYLIGHT TO CURB.

EWB FIRE SERVICE AND DOMESTIC WATER VAULT

SCALE: NTS

THRUST BLOCK

SCALE: NTS

FITTING SIZE	TEE, WYE, PLUG, OR CAP		90° BEND PLUGGED CROSS		45° BEND		22 1/2° BEND		11 1/4° BEND	
	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2
4	1.0	1.4	1.9	1.4	1.0					
6	2.1	3.0	4.3	3.0	1.6	1.0				
8	3.8	5.3	7.6	5.4	2.9	1.5	1.0			
10	5.9	8.4	11.8	8.4	4.6	2.4	1.2			

NOTE: ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 p.s.i. AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 p.s.i.. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURE AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE/150)X(2000/ SOIL BEARING STRESS)X(TABLE VALUE).

CMP CONFORMED SET
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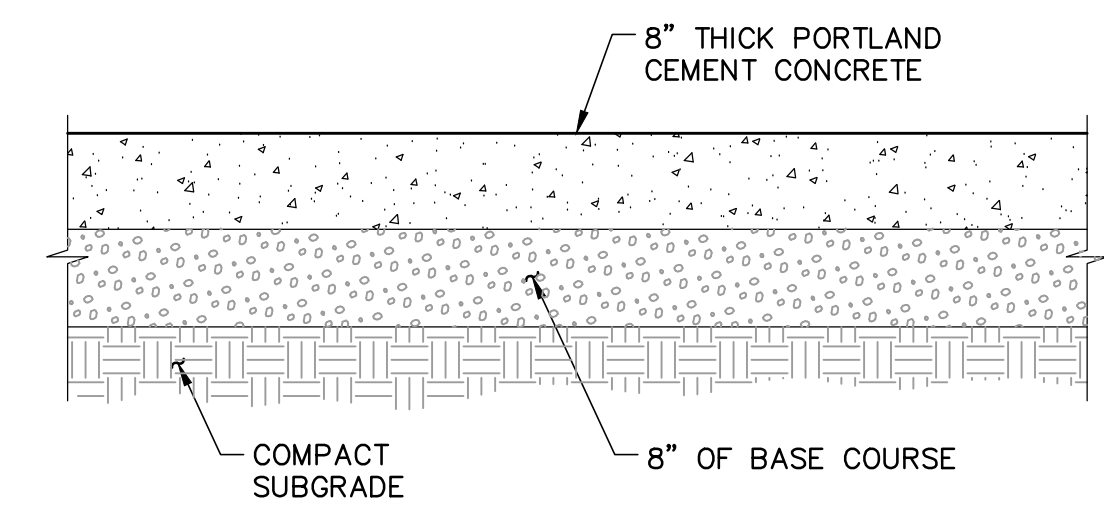
Robertson Sherwood Architects PC
132 East Broadway, Suite 540
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F 541 | 345.4302
www.robertsonsherwood.com
1700 Block of Columbia Street
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Kpff Consulting Engineers
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Eugene - Emvatt - Irvine - Lacey - Long Beach - Los Angeles - New York - Pasadena - Phoenix - Portland - St. Louis - Sacramento - San Diego - San Francisco - Seattle - Tacoma - Walnut Creek

CIVIL DETAILS
Drawn By: ALB
Checked: MK
Date: 7 NOV 2014
Project: 1407

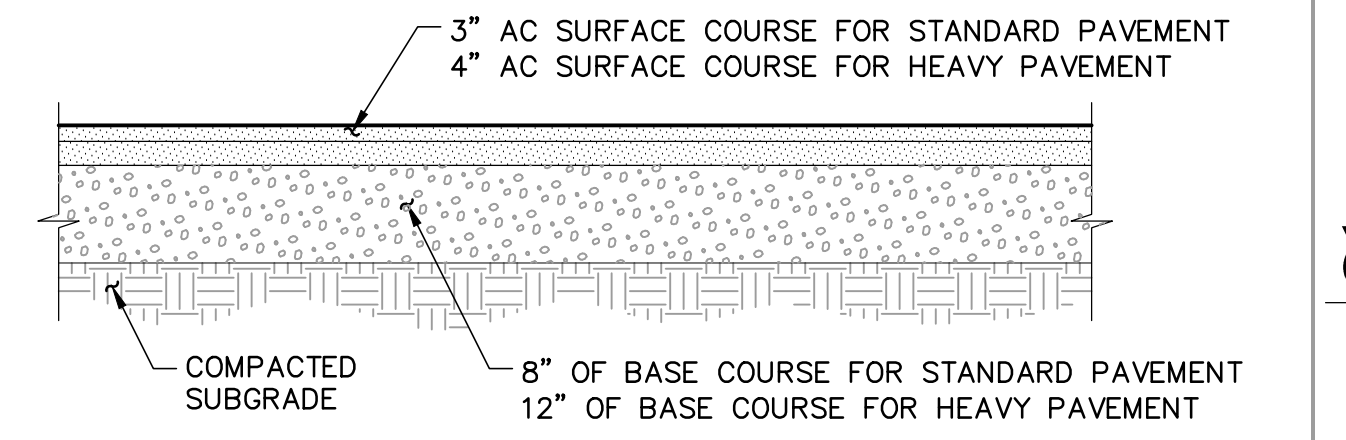
C3.0

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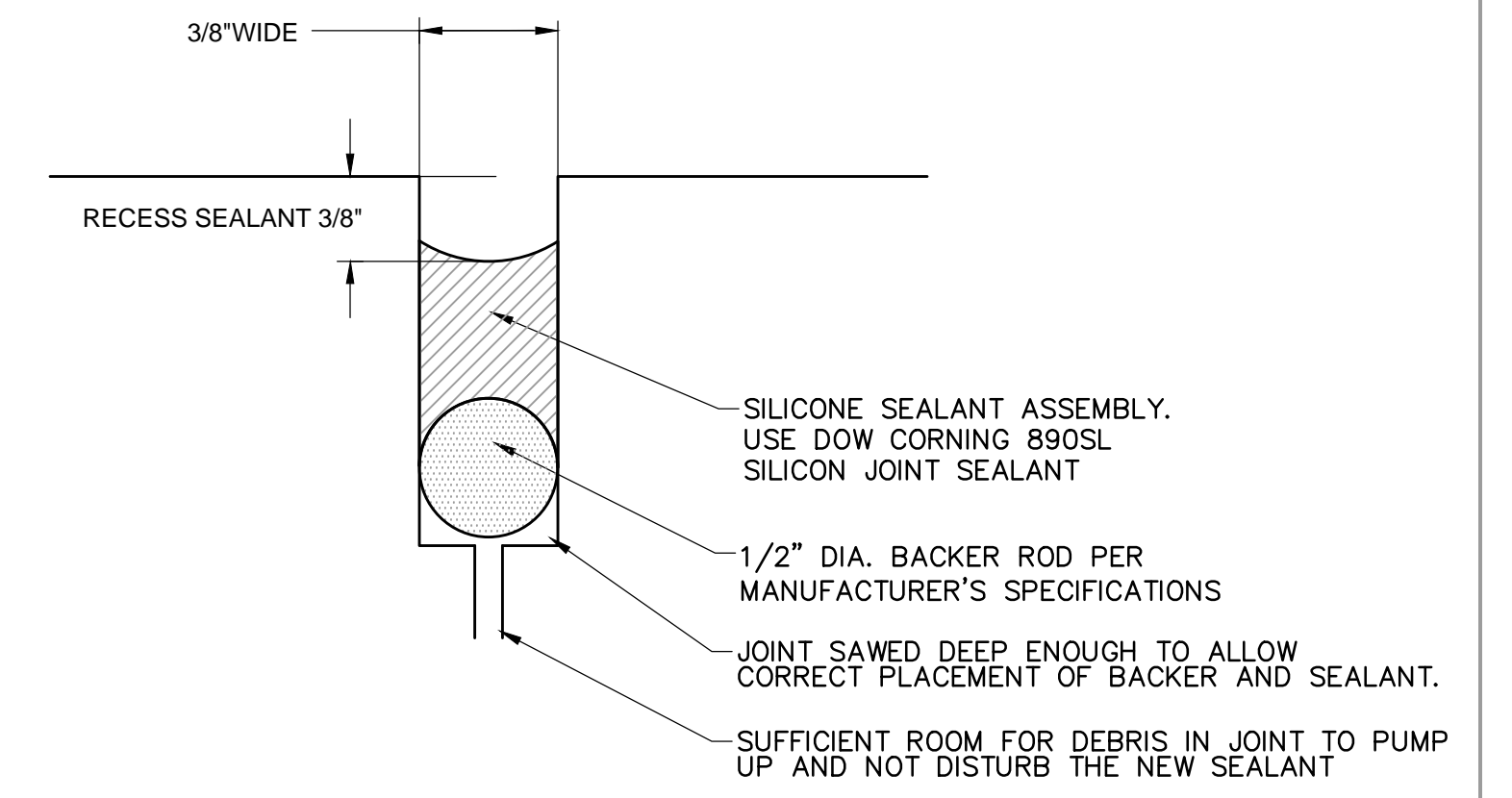


- NOTES:**
1. CONCRETE SHALL BE 4000 PSI.
 2. JOINT SPACING AND LAYOUT TO MATCH EXISTING MAXIMUM. CONTROL JOINT SPACING SHALL BE 15 FEET MAXIMUM.
 3. INSTALL NON-DEFORMED EPOXY-COATED STEEL DOWELS CONFORMING TO ASTM A775 @ MAXIMUM OF 24 INCHES ON CENTER AT ALL JOINTS. DOWELS TO BE A MINIMUM OF 1-1/4 INCHES IN DIAMETER AND 18 INCHES IN LENGTH, CENTERED WITHIN PAVEMENT SECTION.
 4. AT ALL INTERFACES WITH EXISTING PAVING AND AT ALL EXPANSION JOINTS, HALF THE LENGTH OF THE DOWELS SHALL BE EPOXIED INTO EXIST. PAVING. THE EXPOSED END OF THE DOWEL SHALL THEN BE GREASED PRIOR TO PLACEMENT OF THE NEW CONCRETE.
 5. PAVEMENT FINISHING SHALL BE HEAVY BROOM FINISH.
 6. PROVIDE A TIED KEYWAY INTERFACE BETWEEN CURBS AND ADJACENT PAVING.
 7. CONSTRUCT JOINT AND INSTALL JOINT SEALANT PER DETAIL 3/C3.1.

1 HEAVY CONCRETE PAVEMENT
 SCALE: NTS



2 ASPHALT PAVEMENT SECTION
 SCALE: NTS



3 SILICONE JOINT SEALANT RESEVOIR
 SCALE: NTS

CMP CONFORMED SET[™]
 Not For Construction



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 Eugene, Oregon 97401
UO Housing Central Kitchen & Woodshop
 1700 Block of Columbia Street
 Eugene, OR 97403

kpff Consulting Engineers
 220 Oak Street, Suite 100, Eugene, OR 97401
 Eugene, OR 97401
 Eugene: Everett / Irvine / Lacey / Long Beach / Los Angeles
 New York / Pasadena / Phoenix / Portland / St. Louis / Sacramento
 San Diego / San Francisco / Seattle / Tacoma / Walnut Creek

CIVIL DETAILS

Drawn By	ALB
Checked	MK
Date	7 NOV 2014
Project	1407

C3.1

UO HOUSING CENTRAL KITCHEN & WOODSHOP

MOSS ALLEY PEPI

EUGENE, OREGON

GMP CONFORMED SET

GENERAL NOTES

- SURVEY PROVIDED BY FORD & ASSOCIATES, DATED 6/3/13. ELEVATIONS ARE BASED ON EUGENE NGVD29 VERTICAL DATUM ESTABLISHED PER BENCH MARK NO. 449B1903 LOCATED AT THE NORTHEAST CORNER OF VILLARD HALL, IN THE NORTH FACE OF THE BUILDING, 2 INCHES BELOW THE DATE 1885 WITH AN ELEVATION OF 449.320.
- CONSTRUCTION LAYOUT (ALL ACTUAL LINES AND GRADES) SHALL BE STAKED BY A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF OREGON, BASED ON COORDINATES, DIMENSIONS, BEARINGS, AND ELEVATIONS, AS SHOWN, ON THE PLANS.
- PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE HORIZONTAL POSITION PRIOR TO BEGINNING CONSTRUCTION LAYOUT. SEE SHEET C2.0 FOR PROJECT CONTROL INFORMATION.
- PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE VERTICAL POSITION BASED ON THE BENCHMARK STATED HEREON, PRIOR TO BEGINNING CONSTRUCTION LAYOUT.
- WHEN DIMENSIONS AND COORDINATE LOCATIONS ARE REPRESENTED — DIMENSIONS SHALL HOLD OVER COORDINATE LOCATION. NOTIFY THE CIVIL ENGINEER OF RECORD IMMEDIATELY UPON DISCOVERY.
- BUILDING SETBACK DIMENSIONS FROM PROPERTY LINES SHALL HOLD OVER ALL OTHER CALLOUTS. PROPERTY LINES AND ASSOCIATED BUILDING SETBACKS SHALL BE VERIFIED PRIOR TO CONSTRUCTION LAYOUT.
- CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING MONUMENTATION DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT OF ANY MONUMENTS DAMAGED OR REMOVED DURING CONSTRUCTION. NEW MONUMENTS SHALL BE REESTABLISHED BY A LICENSED SURVEYOR.
- SOME SITE DEMOLITION AND UTILITY RELOCATION HAS BEEN PERFORMED. SURVEY MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR TO REFERENCE GEOTECHNICAL INVESTIGATION BY GRI DATED JUNE 11, 2013 FOR THE SITE SOILS CONDITIONS.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS, THE PROJECT SPECIFICATIONS AND THE APPLICABLE REQUIREMENTS OF THE 2008 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE 2011 OREGON PLUMBING SPECIALTY CODE, AND REQUIREMENTS OF THE CITY OF EUGENE.
- THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES AND REGULATIONS. ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES FOR THE EXECUTION AND COMPLETION OF WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
- ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987). EXCAVATORS MUST NOTIFY ALL PERTINENT COMPANIES OR AGENCIES WITH UNDERGROUND UTILITIES IN THE PROJECT AREA AT LEAST 48 BUSINESS-DAY HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS PRIOR TO COMMENCING AN EXCAVATION, SO UTILITIES MAY BE ACCURATELY LOCATED.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL VERIFY ELEVATIONS, PIPE SIZE, AND MATERIAL TYPES OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF KPFF CONSULTING ENGINEERS, 72 HOURS PRIOR TO START OF CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS.
- THE ENGINEER OR OWNER IS NOT RESPONSIBLE FOR THE SAFETY OF THE CONTRACTOR OR HIS CREW. ALL O.S.H.A. REGULATIONS SHALL BE STRICTLY ADHERED TO IN THE PERFORMANCE OF THE WORK.
- TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE IMPLEMENTED. THE CONTRACTOR SHALL ADHERE TO CITY OF EUGENE AND 1200-CN PERMIT FOR MINIMUM EROSION CONTROL MEASURES. THE ESC FACILITIES SHOWN IN THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ROADWAYS, KEEPING THEM CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS, AND PROVIDING DUST CONTROL AS REQUIRED.
- TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO CITY OF EUGENE AND UNIVERSITY OF OREGON FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN ALL UTILITIES SERVING THE UNIVERSITY OF OREGON AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH THE OWNER.
- NOTIFY EUGENE INSPECTOR 72 HOURS BEFORE STARTING WORK. A PRECONSTRUCTION MEETING WITH THE OWNER, THE OWNER'S ENGINEER, CONTRACTOR AND THE CITY OF EUGENE REPRESENTATIVE SHALL BE REQUIRED.

CITY OF EUGENE GENERAL NOTES

- CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL COMPLY WITH THE CITY'S STANDARD SPECIFICATIONS AND DRAWINGS.
- A GRADING AND/OR FILL PERMIT FROM THE CITY BUILDING DIVISION MAY BE REQUIRED FOR ANY CONSTRUCTION ACTIVITY OUTSIDE OF THE RIGHTS-OF-WAY AND PUBLIC EASEMENTS.
- ITEMS OF WORK NOT SHOWN ON THE PLAN BUT NECESSARY FOR SUCCESSFUL COMPLETION OF THIS PROJECT WILL BE REQUIRED BY THE CITY.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AND SECURE APPROVAL OF THE PLAN FROM THE CITY AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL NOT PERFORM WORK WITHOUT CITY INSPECTIONS.
- BEFORE BACK-FILLING THE END OF A MAINLINE PIPE NOT ENDING AT A MANHOLE OR CLEANOUT, THE CONTRACTOR SHALL PERFORM THE TV INSPECTION AS REQUIRED BY THE STANDARD SPECIFICATIONS AND ALLOW THE CONSULTING ENGINEER TO DETERMINE THE EXACT LOCATION AND ELEVATION OF THE END OF THE PIPE.
- WHERE CONNECTING TO AN EXISTING PIPE, THE CONTRACTOR SHALL EXPOSE THE END OF THE EXISTING PIPE AND ALLOW THE ENGINEER TO VERIFY EXACT LOCATION AND ELEVATION BEFORE LAYING ANY NEW PIPE ON THAT SYSTEM.
- WHERE THE CONTRACTOR IS UNABLE TO ACHIEVE SUB-GRADE COMPACTION AND DEFLECTION STANDARDS REQUIRED BY THE SPECIFICATIONS, AS DETERMINED BY FIELD INSPECTION AND TESTING, THE SUB-GRADE SURFACE SHALL BE LOWERED AT LEAST 6 INCHES, FABRIC SHALL BE PLACED, AND THE MATERIAL REMOVED SHALL BE REPLACED WITH 1½"–0 CRUSHED ROCK AND COMPACTED ACCORDING TO THE SPECIFICATIONS. IF THE SUB-GRADE STILL DOES NOT MEET SPECIFICATIONS OVER-EXCAVATE TO A DEEPER SUBBASE DEPTH AS DIRECTED BY PROJECT ENGINEER AND REPEAT THE PROCESS UNTIL THE SUB-GRADE MEETS SPECIFICATIONS.
- ASPHALT SHALL BE FORMULATED FOR THIS PROJECT IN ACCORDANCE WITH SECTION 745 OF THE CITY'S STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY LANE COUNTY DEPARTMENT OF PUBLIC WORKS PERMIT SECTION 24 HOURS BEFORE BEGINNING WORK IN THE COUNTY RIGHT-OF-WAY.
- THE CONTRACTOR SHALL PROTECT THE WORK AREA IN THE COUNTY ROAD IN ACCORDANCE WITH "LANE COUNTY TRAFFIC CONTROL AND SAFETY PROCEDURES."
- REQUESTS BY THE CONTRACTOR FOR CHANGES TO THE PLANS MUST BE APPROVED BY THE CONSULTING ENGINEER AND THE CITY BEFORE THE CHANGES ARE IMPLEMENTED.
- ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 1-800-3322344. IF YOU HAVE ANY QUESTIONS ABOUT THESE RULES, YOU MAY CONTACT THE CALL CENTER.
- AT EACH INTERSECTION AT LEAST ONE POST SHALL BE PLACED DISPLAYING STREET NAME SIGNS FOR BOTH INTERSECTING STREETS. A "SIGN SCHEDULE" INDICATING NAMES AND LOCATIONS OF ALL SIGNS TO BE INSTALLED SHALL BE SUBMITTED TO THE PROJECT INSPECTOR WITHIN 15 DAYS OF THE PUBLIC IMPROVEMENT PERMIT DATE.
- PLACEMENT OR STORAGE OF SPOILS FROM TRENCH CONSTRUCTION IS NOT PERMITTED ON HARD SURFACE STREETS WITHIN PUBLIC RIGHT-OF-WAY. SPOILS STORED IN OTHER RIGHT OF WAY AREAS SHALL BE COVERED TO PREVENT EROSION.
- FORMS OF ADEQUATE SIZE AND CONFIGURATION TO MEET CONCRETE THICKNESS REQUIREMENTS SHALL BE USED AROUND OUTSIDES OF OUTSIDE-DROP MANHOLES.
- CONSTRUCTION SITE SHALL BE MANAGED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION SITE MANAGEMENT PLAN (CSMP). CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING COMPONENTS OF THE CSMP UNTIL PROJECT FINAL ACCEPTANCE IS ISSUED.
- THE CITY INSPECTOR SHALL NOT BE REQUIRED TO LAY OUT ADA RAMPS FOR PRIVATELY-ENGINEERED PROJECTS. THE DEVELOPER/OWNER OR THEIR AGENT SHALL BE RESPONSIBLE FOR RAMP LAYOUT AND SHALL ENSURE COMPLIANCE WITH ADA STANDARDS.
- LOCATIONS OF STREET LIGHTING, SIGNS, AND MARKINGS, ETC. ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE AS DIRECTED BY THE CITY INSPECTOR IN THE FIELD.
- WORK REQUIRES THE ELECTRICAL CONTRACTOR TO SECURE AN ELECTRIC PERMIT AS WELL AS INSPECTION SERVICES FROM THE BUILDING PERMIT SERVICES DIVISION TO ASSURE NATIONAL ELECTRIC CODE COMPLIANCE. IN ADDITION, CONTRACT INSPECTION SERVICES SHALL BE OBTAINED FROM THE PUBLIC WORKS ENGINEERING DIVISION 24 HOURS IN ADVANCE OF WORK COMMENCEMENT BY CALLING 541682-5560.

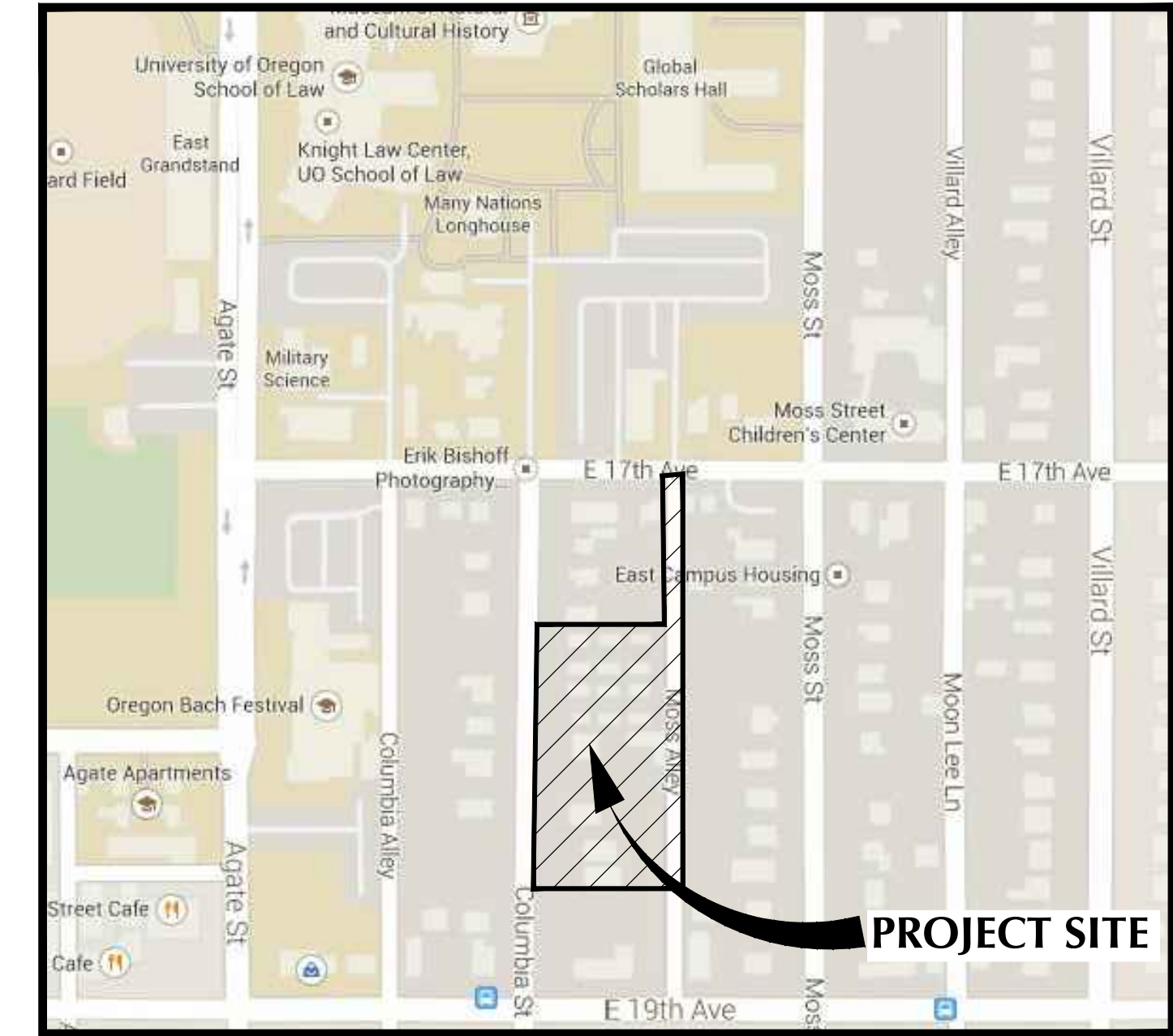
CONSTRUCTION NOTES

DEMOLITION

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF EXISTING A.C., CURBS, SIDEWALKS AND OTHER SITE ELEMENTS WITHIN THE SITE AREA IDENTIFIED IN THE PLANS.
- EXCEPT FOR MATERIALS INDICATED TO BE STOCKPILED OR TO REMAIN ON OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY, REMOVED FROM THE SITE, AND DISPOSED OF PROPERLY.
- ITEMS INDICATED TO BE SALVAGED SHALL BE CAREFULLY REMOVED, DELIVERED, AND STORED AT THE PROJECT SITE AS DIRECTED BY THE OWNER.
- ALL LANDSCAPING, PAVEMENT, CURBS AND SIDEWALKS, BEYOND THE IDENTIFIED SITE AREA, DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED TO THEIR ORIGINAL CONDITION OR BETTER.
- SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING AND NEW PAVEMENT.

UTILITIES

- ADJUST ALL INCIDENTAL STRUCTURES, MANHOLES, VALVE BOXES, CATCH BASINS, FRAMES AND COVERS, ETC. TO FINISHED GRADE.
- CONTRACTOR SHALL ADJUST ALL EXISTING AND/OR NEW FLEXIBLE UTILITIES (WATER, TV, TELEPHONE, ELEC., ETC.) TO CLEAR ANY EXISTING OR NEW GRAVITY DRAIN UTILITIES (STORM DRAIN, SANITARY SEWER, ETC.) IF CONFLICT OCCURS, WITH THE EXCEPTION OF NATURAL GAS. CONTACT NW NATURAL IF A GAS LINE IS ENCOUNTERED.
- CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR THE INSTALLATION OR REMOVAL OF GAS, ELECTRICAL, POWER AND TELEPHONE SERVICE.
- BEFORE BACKFILLING ANY SUBGRADE UTILITY IMPROVEMENTS CONTRACTOR SHALL SURVEY AND RECORD MEASUREMENTS OF EXACT LOCATION AND DEPTH AND SUBMIT TO ENGINEER AND OWNER.



LOCAL UTILITY CONTACTS

UTILITY	COMPANY/CONTACT	PHONE NUMBER
• WATER	EWEB/CHRIS BIGELOW	(541) 685-7353
• SEWER	CITY OF EUGENE	(541) 682-5291
• GAS	NW NATURAL GAS	(541) 342-3661
• ELECTRIC	EWEB/RICH DELUNA	(541) 685-7148
• TELEPHONE	CENTURY LINK/JODY KALDHAL	(541) 484-7796

PROJECT CONTACTS

DEVELOPER/OWNER: UNIVERSITY OF OREGON 1595 E. 15TH AVE EUGENE, OR 97403 TEL: 541-346-8801 CONTACT: DAVID OPP-BECKMAN	SURVEYING: FORD & ASSOCIATES 399 E. 10TH AVE. EUGENE, OREGON 97401 TEL: 541-344-1852 CONTACT: RYAN SISSON, LSIT
CIVIL ENGINEER: KPFF CONSULTING ENGINEERS 1201 OAK STREET, SUITE 100 EUGENE, OREGON 97401 TEL: 541-684-4902 CONTACT: MATT KEENAN, PE	CONTRACTOR: CHAMBERS CONSTRUCTION 3028 JUDKINS RD. EUGENE, OR 97403 TEL: 541-687-9445 CONTACT: BRIAN ERICKSON

SHEET INDEX

SHEET NO.	SHEET TITLE	SHEET DESCRIPTION
1	C100	COVER SHEET
2	C101	KEY PLAN AND HORIZONTAL CONTROL
3	C200	N-S PLAN & PROFILE — STA 9+70 TO STA 12+50
4	C201	N-S PLAN & PROFILE — STA 12+50 TO STA 15+50
5	C300	CIVIL DETAILS

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	POB	POINT OF BEGINNING
APPROX.	APPROXIMATE	POE	POINT OF ENDING
ARCH.	ARCHITECT	PROP	PROPOSED
CB	CATCH BASIN	PVM/T	PAVEMENT
	CENTERLINE	R	RADIUS
C.O.E.	CITY OF EUGENE	R.O.W.	RIGHT-OF-WAY
CONC.	CONCRETE	RT	RIGHT
CONST.	CONSTRUCT	S	SLOPE (FT./FT.)
DWG	DRAWING	SHT.	SHEET
D/W	DRIVEWAY	SPECS.	SPECIFICATIONS
E	EAST	SD	STORM DRAIN
ELEC.	ELECTRICAL	SDMH	STORM DRAIN MANHOLE
ELEV.	ELEVATION	SS	SANITARY SEWER
EWEB	EUGENE WATER & ELECTRIC BOARD	STD.	STANDARD
EXIST./EX.	EXISTING	S/W	SIDEWALK
HGL	HYDRAULIC GRADE LINE	TC	TOP OF CURB
IE	INVERT ELEVATION	TP	TOP OF PAVEMENT
LF	LINEAR FEET	TYP.	TYPICAL
LT	LEFT	W	WATER/WEST
MIN.	MINIMUM	W/	WITH
MH	MANHOLE	WQMH	WATER QUALITY MANHOLE
NTS	NOT TO SCALE		
N	NORTH		
PEPI	PRIVATELY ENGINEERED PUBLIC IMPROVEMENTS		

NOTICE TO EXCAVATORS:
ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.
(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987).

POTENTIAL UNDERGROUND FACILITY OWNERS
Dig Safely.
Call the Oregon One-Call Center
1-800-332-2344

NO.	DATE	REVISION

DESIGNED BY	AB
DRAWN BY	AMF / AS
CHECKED BY	MWK
DATE APPD.	

kpff
Consulting Engineers
807 Oak Street
Suite 100
Eugene, Oregon 97401
(541) 684-4902
Fax (541) 684-4929

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**MOSS ALLEY PEPI
COVER SHEET**

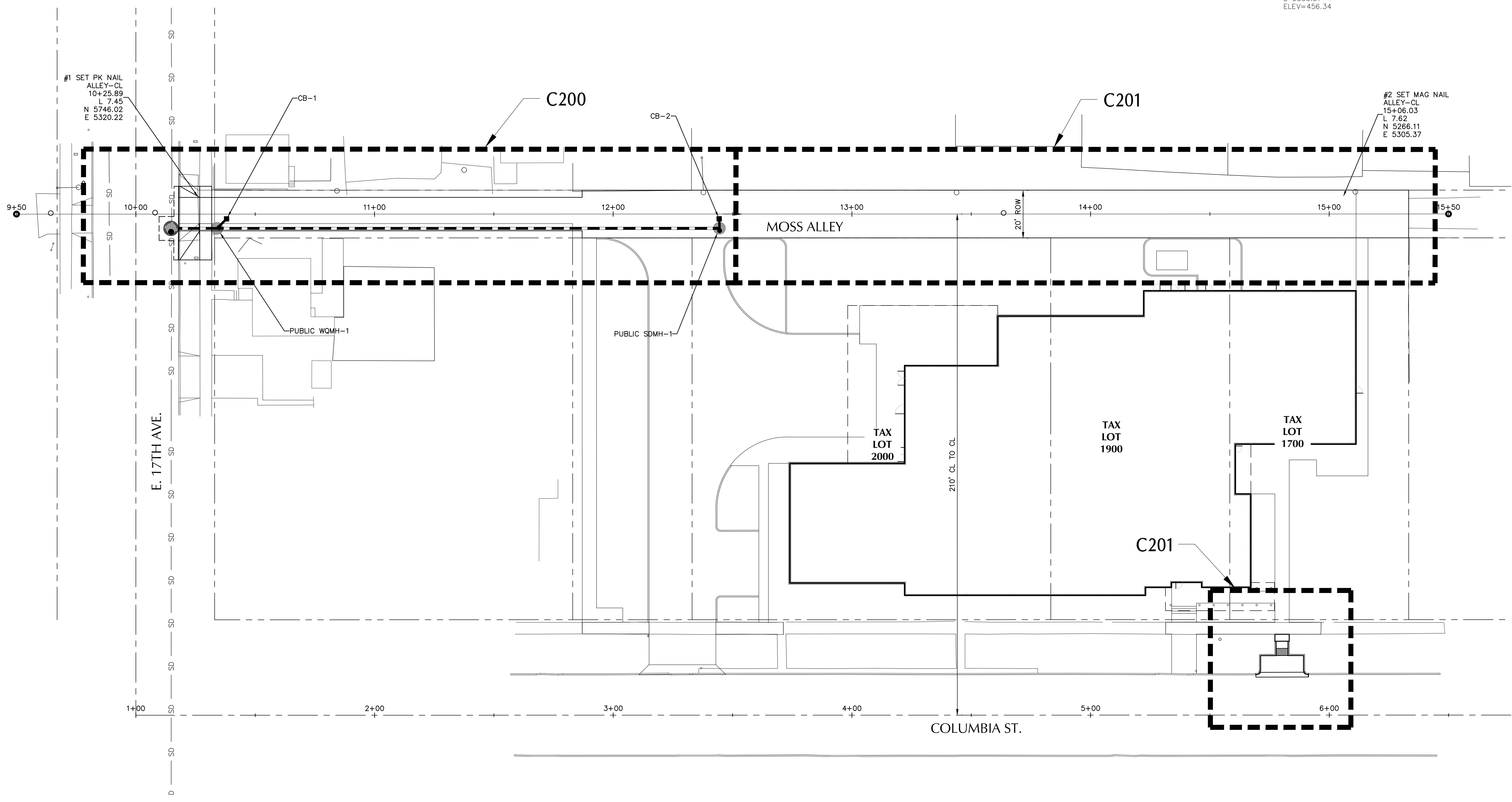
SHEET NO.
C100

1 OF 5

CITY OF EUGENE PROJECT NO. xxxx

Plotted: 11/5/14 at 8:44am
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NOTES:
 1) THE BASIS OF ELEVATION IS THE NGVD29 DATUM. THE REFERENCE BENCHMARK IS LOCATED AT THE "NORTHEAST CORNER OF VILLARD HALL, IN THE NORTH FACE OF THE BUILDING, 2 INCHES BELOW THE DATE "1885" AND STAMPED "449B1903" ELEVATION 449.320, FROM CITY OF EUGENE, OREGON BENCH MARK SYSTEM, NOV. 2002.
 2) HORIZONTAL CONTROL FOR THIS PROJECT SITE IS BASED ON POINTS #1, #2 LOCATED ALONG MOSS ALLEY.
 #1 (SET PK NAIL)
 N 5746.02
 E 5320.22
 ELEV=449.12
 #2 (SET MAG NAIL)
 N 5266.11
 E 5305.37
 ELEV=456.34



NO.	DATE	DESCRIPTION	REVISION

DESIGNED BY: AB
 DRAWN BY: AMF / AB
 CHECKED BY: MKK
 DATE APPD.:

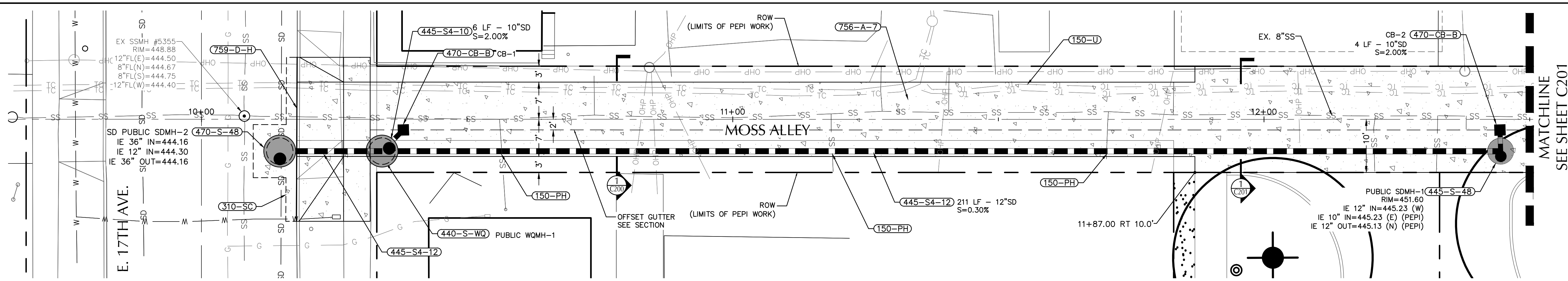
207 Oak Street
 Suite 100
 Eugene, Oregon 97401
 (541) 684-6822
 FAX (541) 684-4929

**PRELIMINARY
 NOT FOR
 CONSTRUCTION**

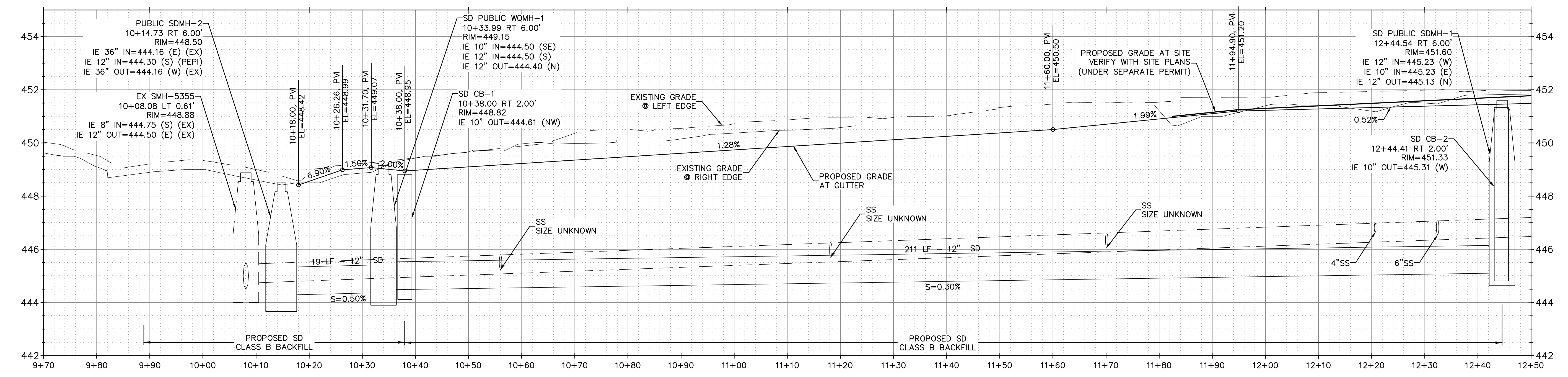
MOSS ALLEY PEP
 KEY PLAN AND HORIZONTAL CONTROL

SHEET NO.
C101
 2 OF 5

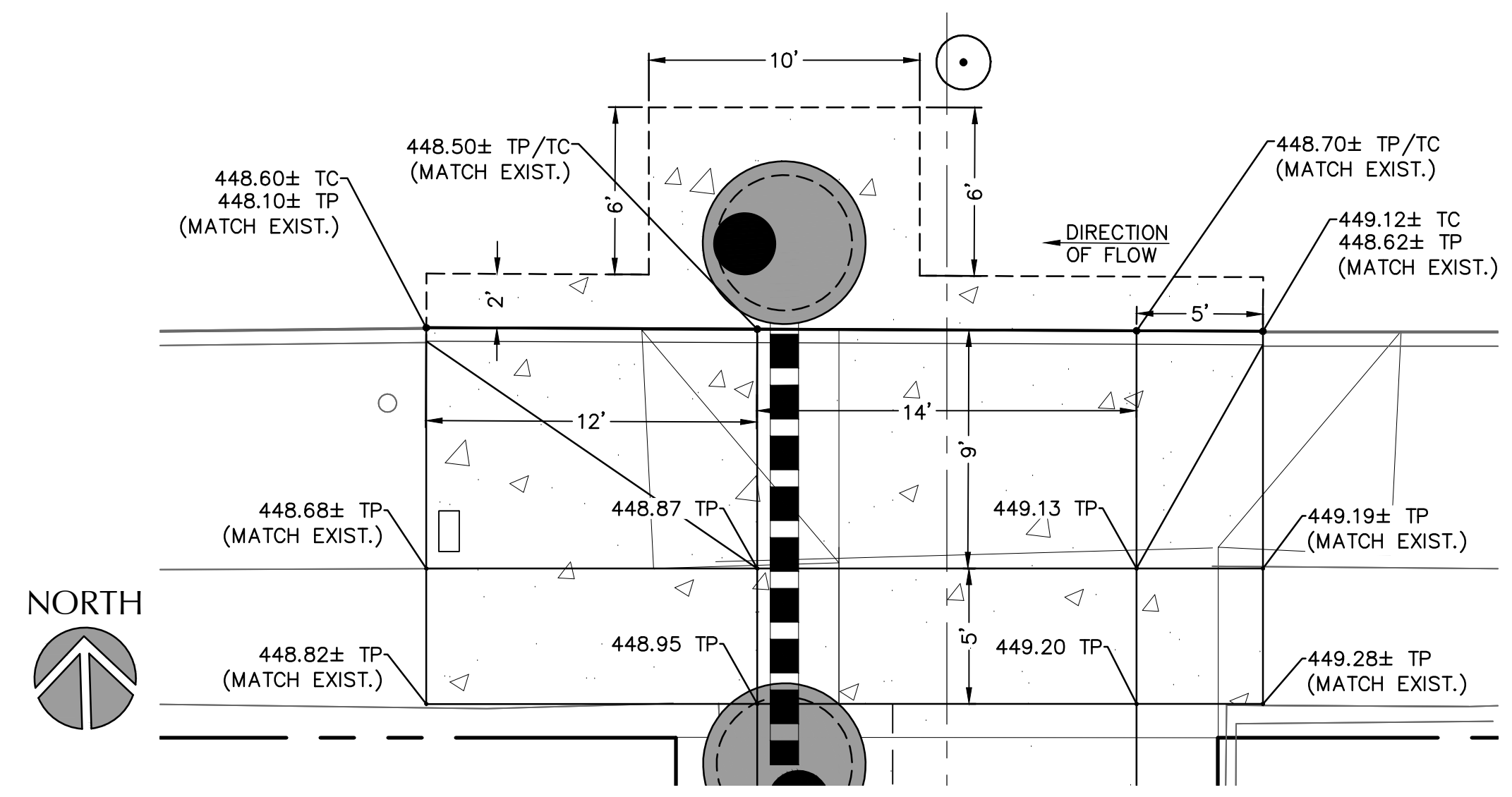
11/07/2014 - GMP CONFORMED SET



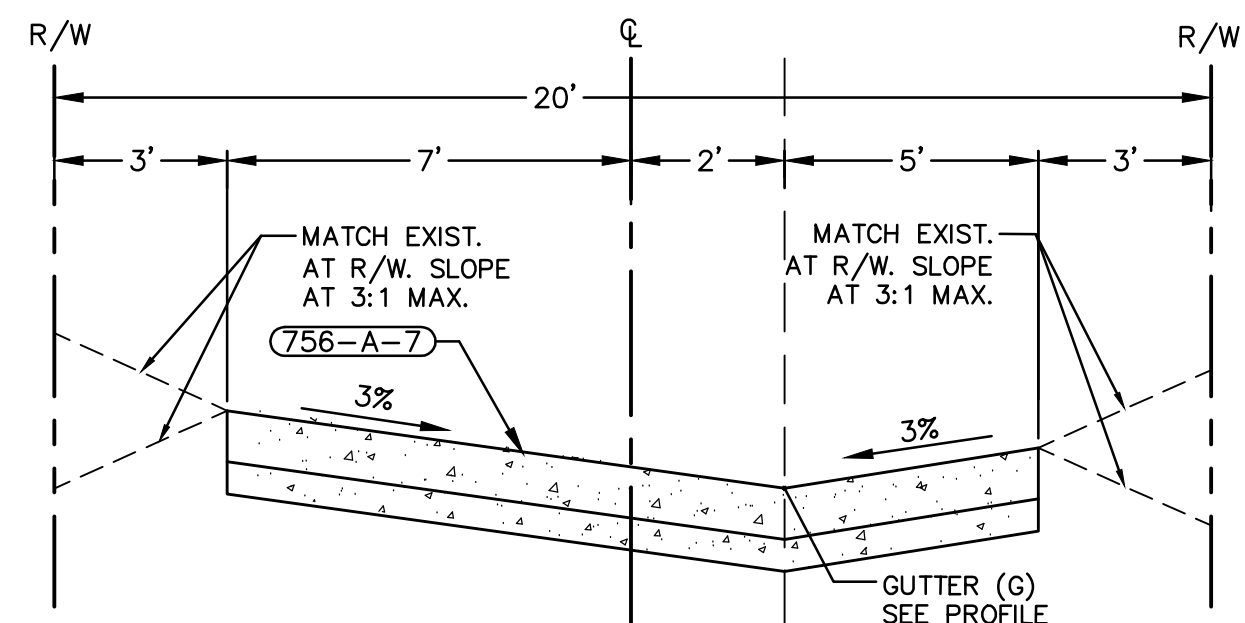
PLAN VIEW



PROFILE VIEW



2 DRIVEWAY APRON
SCALE: 1" = 5'



1 ALLEY SECTION
STA 10+26.76 TO STA. 11+87.00
N.T.S.

CONSTRUCTION NOTES

- (150-PH) POTHOLE TO VERIFY UTILITY SIZE AND DEPTH. REPORT RESULTS TO KPFF.
- (150-U) PROTECT EXISTING UTILITIES
- (310-SC) SAWCUT
- (445-S4-10) INSTALL 10" PVC WASTEWATER PIPE PER CITY OF EUGENE STANDARD DRAWINGS RD300 & RD300(A)
- (445-S4-12) INSTALL 12" PVC STORM DRAIN PIPE PER CITY OF EUGENE STANDARD DRAWINGS RD300 & RD300(A)
- (445-WI-8) INSTALL 8" PVC WASTEWATER PIPE PER CITY OF EUGENE STANDARD DRAWINGS RD300 & RD300(A)
- (470-CB-B) INSTALL CATCH BASIN WITH BIKE PROOF GRATE PER CITY OF EUGENE STANDARD DRAWINGS CRD366-1 & CRD366-2
- (470-S-48) INSTALL 48" PRECAST CONCRETE STORMWATER MANHOLE PER CITY OF EUGENE STANDARD DRAWINGS RD336 & RD336(A). USE SHALLOW CONE OR FLAT TOP MANHOLE WHERE NEEDED.
- (470-S-WQ) INSTALL CDS 2015-4 WATER QUALITY MANHOLE PER 1/C301.
- (490-MJ) MAJOR ADJUSTMENT OF MANHOLE. INSTALL COVER AND FRAME AT PROPOSED GRADE PER CITY OF EUGENE STANDARD DRAWINGS RD360 & RD360(A)
- (490-ST) CONNECT TO EXISTING MANHOLE. CORE NEW CONNECTION.
- (756-A-7) CONSTRUCT 7" CONCRETE ALLEY ON 3" CRUSHED ROCK. SEE ALLEY SECTION AND PROFILE ON SHEET C200 & C201.
- (759-D-H) CONSTRUCT CONCRETE DRIVEWAY, OPTION H PER CITY OF EUGENE STANDARD DRAWING RD740 & RD740(A).
- (748-CG) CURB AND GUTTER DAMAGED DURING CONSTRUCTION MUST BE REPLACED.
- (759-CG) CONSTRUCT CONCRETE CURB AND GUTTER, PER CITY OF EUGENE STANDARD DRAWINGS RD750 & RD750(A)
- (759-CS-B) CONSTRUCT CONCRETE CURB, 6" HEIGHT UNLESS NOTED OTHERWISE, PER CITY OF EUGENE STANDARD DRAWINGS RD750 & RD750(A)
- (759-VG) CONSTRUCT CONCRETE VALLEY GUTTER, PER CITY OF EUGENE STANDARD DRAWING RD750(A)

NOTES:
1. EXISTING ELEVATIONS ARE BASED ON TOPOGRAPHIC SURVEY AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR TO VERIFY IN FIELD. MAINTAIN DIRECTION OF FLOW AS SHOWN AT CURB LINE. CONTACT ENGINEER IF LOW POINTS ARE ENCOUNTERED.



NO.	DATE	DESCRIPTION	REVISION

DESIGNED BY: AB
DRAWN BY: AMF/AB
CHECKED BY: MKK
DATE APPD. DATE APPD.
NO. DATE

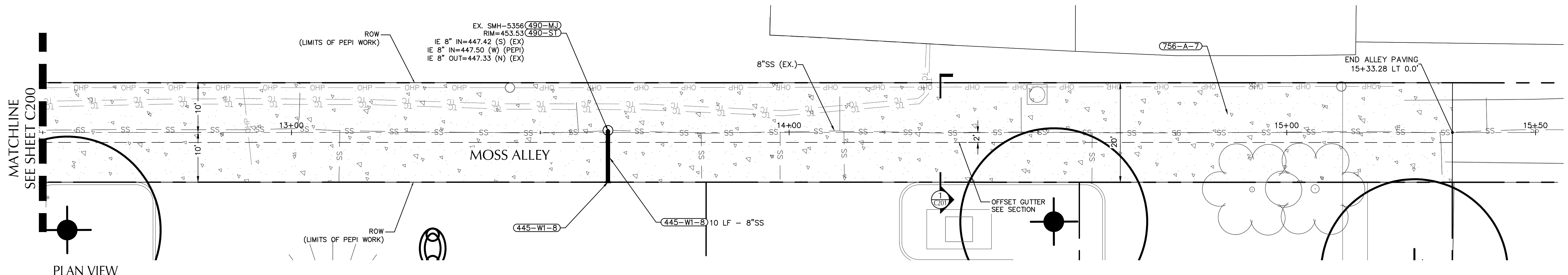
kpff
Consulting Engineers
207 Oak Street
Suite 200
Eugene, Oregon 97401
(541) 684-6882
Fax (541) 684-4929

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CONSTRUCTION

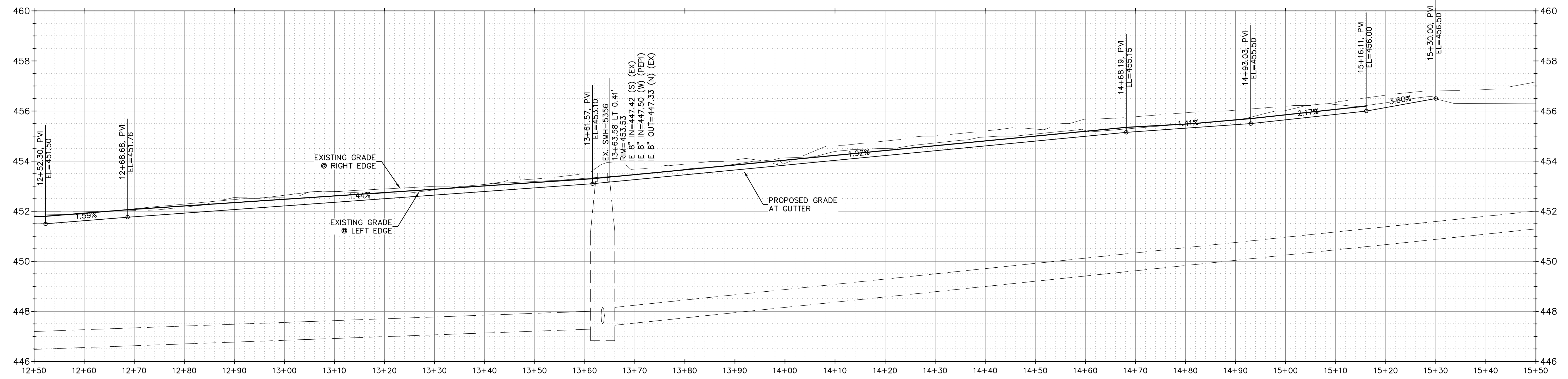
MOSS ALLEY PEP
N-S PLAN & PROFILE
STA 9+70 TO STA 12+50

SHEET NO.
C200
3 OF 5

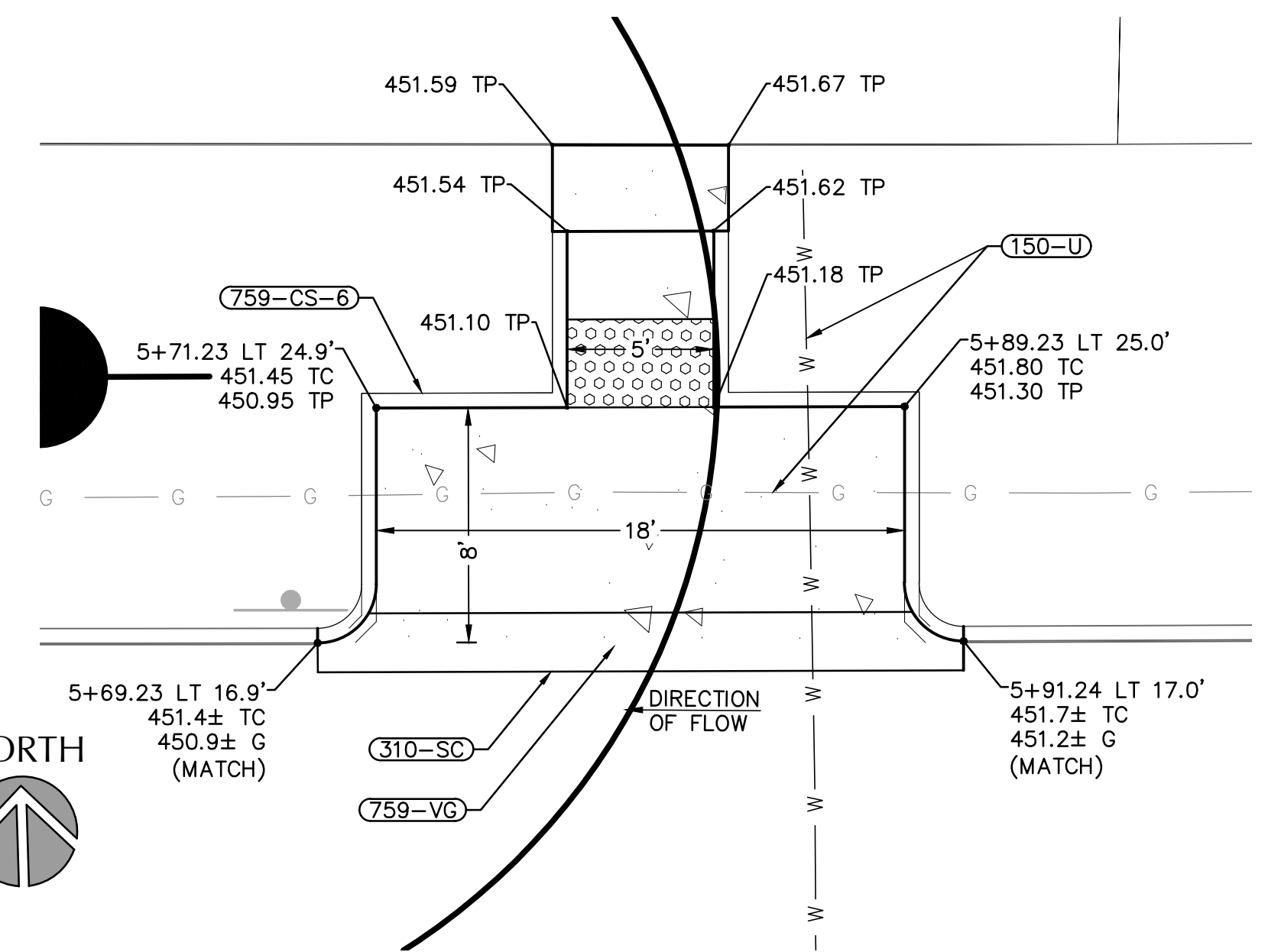
11/07/2014 - GMP CONFORMED SET



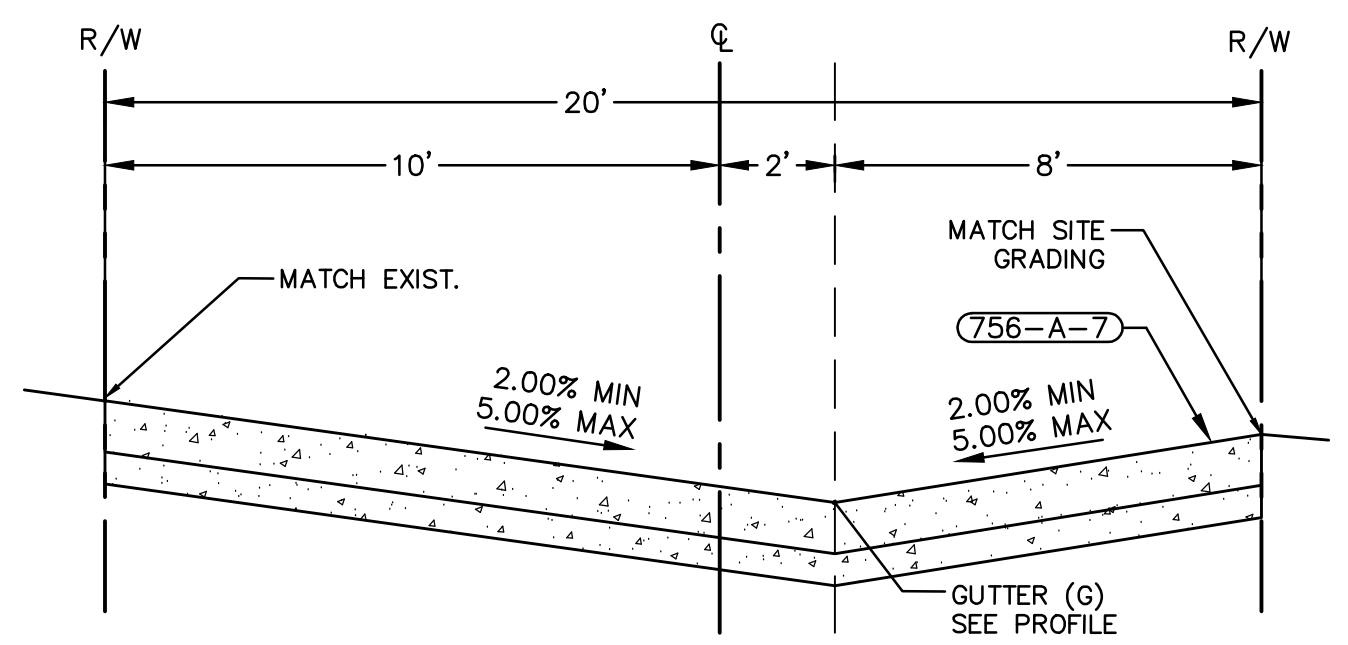
PLAN VIEW



PROFILE VIEW



COLUMBIA STREET ACCESSIBLE ON-STREET PARKING
SCALE: 1" = 5'



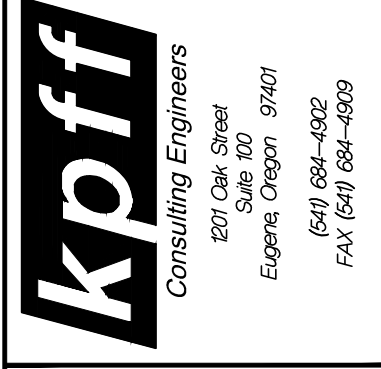
ALLEY SECTION
STA 11+87.00 TO STA. 15+33.28
N.T.S.

CONSTRUCTION NOTES

- (150-PH) POT HOLE TO VERIFY UTILITY SIZE AND DEPTH. REPORT RESULTS TO KPFF.
- (150-U) PROTECT EXISTING UTILITIES
- (310-SC) SAWCUT
- (445-S4-10) INSTALL 10" PVC WASTEWATER PIPE PER CITY OF EUGENE STANDARD DRAWINGS RD300 & RD300(A)
- (445-S4-12) INSTALL 12" PVC STORM DRAIN PIPE PER CITY OF EUGENE STANDARD DRAWINGS RD300 & RD300(A)
- (445-W1-8) INSTALL 8" PVC WASTEWATER PIPE PER CITY OF EUGENE STANDARD DRAWINGS RD300 & RD300(A)
- (470-CB-B) INSTALL CATCH BASIN WITH BIKE PROOF GRATE PER CITY OF EUGENE STANDARD DRAWINGS CRD366-1 & CRD366-2
- (470-S-48) INSTALL 48" PRECAST CONCRETE STORMWATER MANHOLE PER CITY OF EUGENE STANDARD DRAWINGS RD336 & RD336(A). USE SHALLOW CONE OR FLAT TOP MANHOLE WHERE NEEDED.
- (470-S-WQ) INSTALL CDS 2015-4 WATER QUALITY MANHOLE PER 1/C301.
- (490-MJ) MAJOR ADJUSTMENT OF MANHOLE. INSTALL COVER AND FRAME AT PROPOSED GRADE PER CITY OF EUGENE STANDARD DRAWINGS RD360 & RD360(A)
- (490-ST) CONNECT TO EXISTING MANHOLE. CORE NEW CONNECTION.
- (756-A-7) CONSTRUCT 7" CONCRETE ALLEY ON 3" CRUSHED ROCK. SEE ALLEY SECTION AND PROFILE ON SHEET C200 & C201.
- (759-D-H) CONSTRUCT CONCRETE DRIVEWAY, OPTION H PER CITY OF EUGENE STANDARD DRAWING RD740 & RD740(A).
- (748-CG) CURB AND GUTTER DAMAGED DURING CONSTRUCTION MUST BE REPLACED.
- (759-CG) CONSTRUCT CONCRETE CURB AND GUTTER, PER CITY OF EUGENE STANDARD DRAWINGS RD750 & RD750(A)
- (759-CS-6) CONSTRUCT CONCRETE CURB, 6" HEIGHT UNLESS NOTED OTHERWISE, PER CITY OF EUGENE STANDARD DRAWINGS RD750 & RD750(A)
- (759-VG) CONSTRUCT CONCRETE VALLEY GUTTER, PER CITY OF EUGENE STANDARD DRAWING RD750(A)



DESIGNED BY	AB
DRAWN BY	AMF / AS
CHECKED BY	MMK
DATE APPD.	
NO.	DATE
DESCRIPTION	REVISION



PRELIMINARY
NOT FOR
CONSTRUCTION

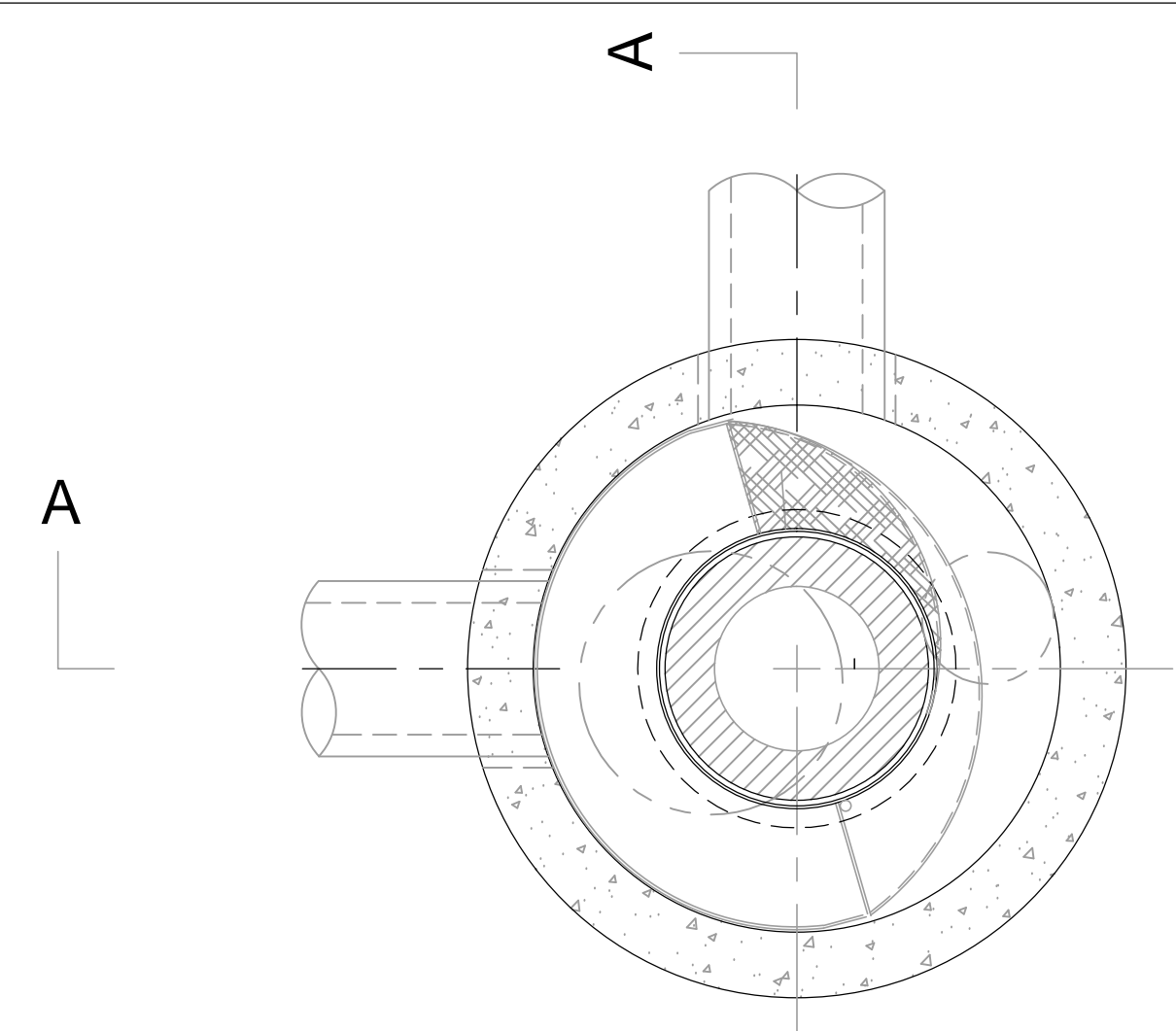
11/07/2014 - GMP CONFORMED SET

MOSS ALLEY PEP
N-S PLAN & PROFILE
STA 12+50 to STA 15+50

SHEET NO.
C201
4 OF 5

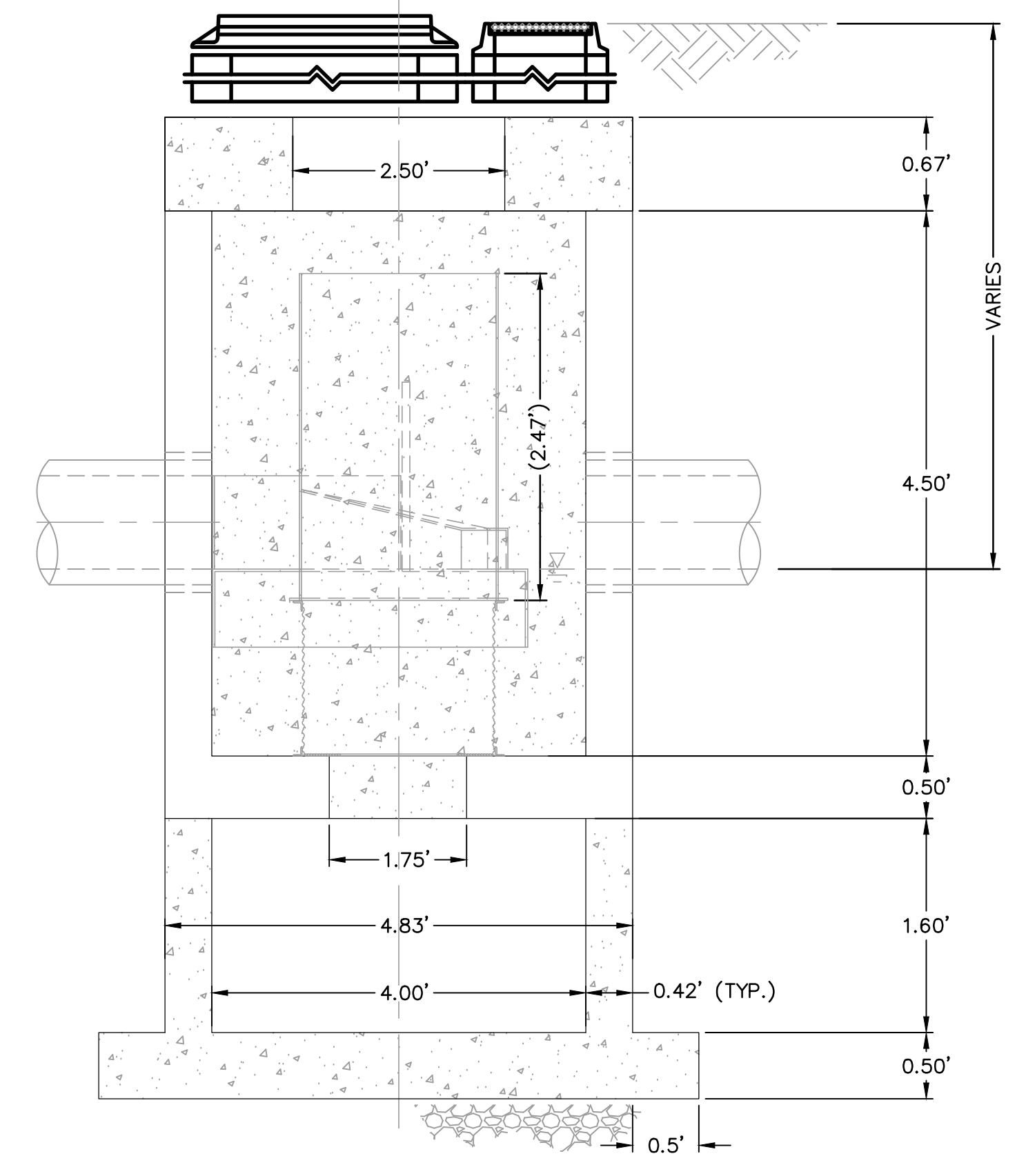
Plotted: 11/5/14 at 8:49am
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Plotted: 11/5/14 at 8:50am
 File: C:\s\p\2014\314805-UO-Housing-Kitchen-onid-Woodshop\CAD\PILOT\PEPI\4805-03DT.dwg TAB: C300



PRELIMINARY

PEPI WQMh



GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH STORMWATER SOLUTIONS REPRESENTATIVE. www.contechstormwater.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE AND CASTINGS SHALL MEET AASHTO HS20 LOAD RATING.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
2. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
3. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
4. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,788,848; 6,641,720; 6,511,595; 6,581,783; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.



**CDS2015-4
 PRECAST CONCRETE WATER QUALITY SYSTEM
 STANDARD DETAIL**

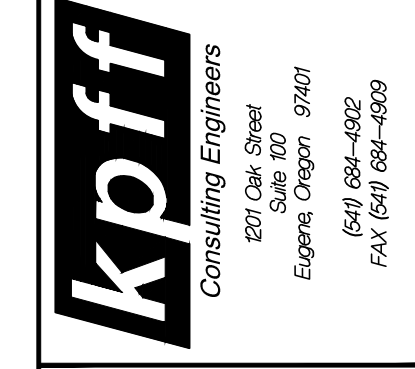
NOTE:

1. DETAIL IS FOR REFERENCE ONLY, WQMh TO BE CONSTRUCTED FROM SHOP DRAWINGS.
2. CONTRACTOR TO PROVIDE CONCRETE BALLAST PER MANUFACTURER'S RECOMMENDATION ASSUMING FULLY SATURATED SOIL CONDITION.
3. SEE CITY OF EUGENE STORMWATER MANAGEMENT MANUAL FOR A COMPLETE LIST OF THE CITY OF EUGENE PRODUCTS.
4. ANY PRODUCT SUBSTITUTION CHOSEN MUST BE SIZED BY KPFF.

1 WATER QUALITY MANHOLE
 SCALE: NTS

NO.	DATE	DESCRIPTION	APPD.

DESIGNED BY: AB
 DRAWN BY: AMF / AS
 CHECKED BY: MMK
 DATE APPD.:



**PRELIMINARY
 NOT FOR
 CONSTRUCTION**

**MOSS ALLEY PEPI
 CIVIL DETAILS**

SHEET NO.
C300
 5 OF 5

08/08/2014 - 100% DD SET