

**VICINITY MAP**  
SCALE: NTS

# BEND SOUTHEAST INTERCEPTOR

SEPTEMBER 2015  
SW0707

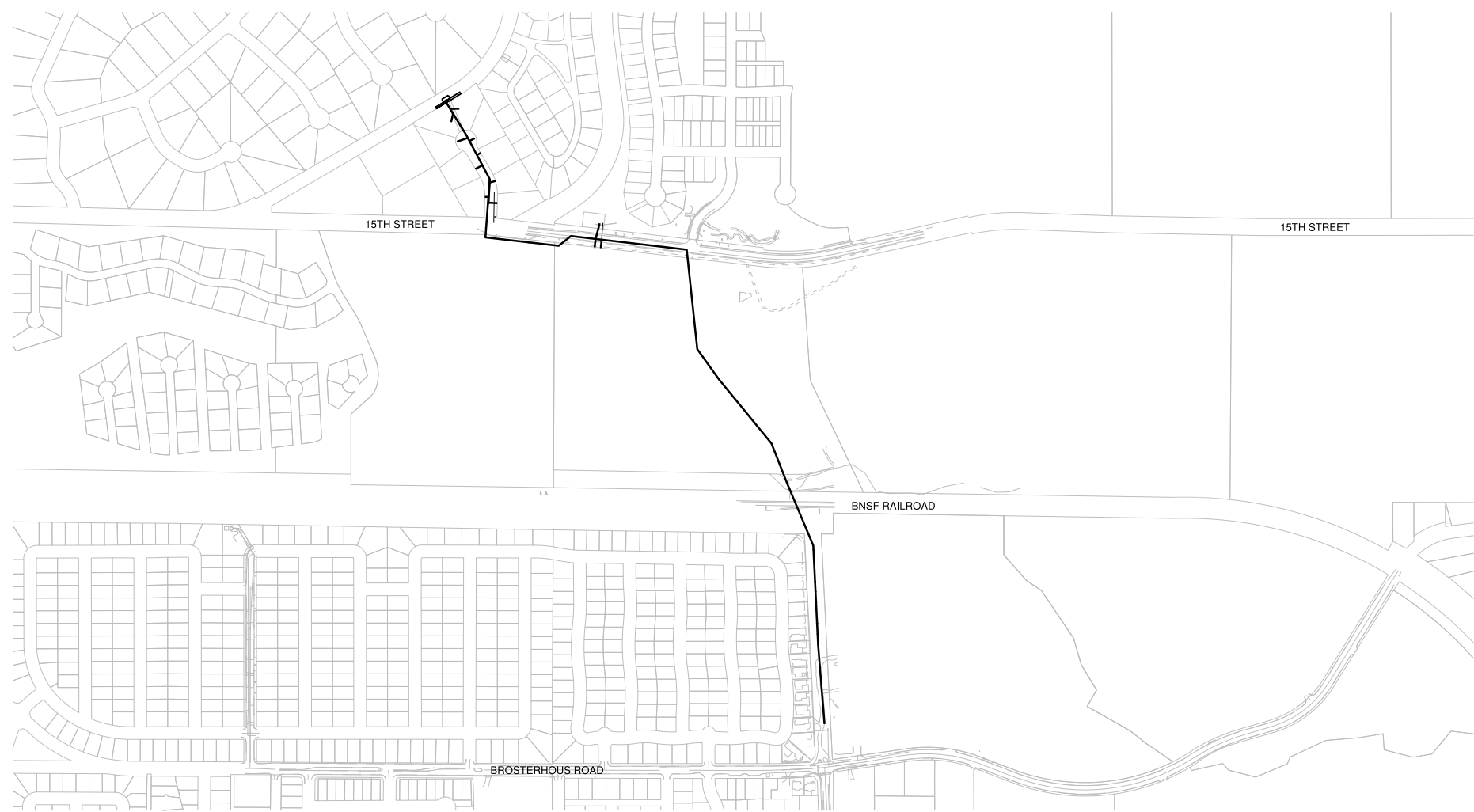
CITY OF BEND  
DESCHUTES COUNTY, OREGON

## CONTRACT DOCUMENTS FOR SCHEDULES F AND G

OWNER:  
**CITY OF BEND  
PUBLIC WORKS  
UTILITIES DIVISION**  
62975 BOYD ACRES ROAD  
BEND, OREGON 97701  
541-317-3000

FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR**  
COVER  
SCHEDULES F AND G  
DESCHUTES COUNTY, OREGON



**SITE PLAN**  
SCALE: 1"=30'

APPROVALS: \_\_\_\_\_

CITY OF BEND ENGINEER: \_\_\_\_\_ FOR SIGNATURE REFER TO ORIGINAL DRAWINGS, DATED JULY 2014

NOTE: SIGNATURE DOES NOT GRANT APPROVAL TO COMMENCE CONSTRUCTION.

**RECORD DRAWINGS**

Revisions Drawn By O. VEGVARY Date 9/15/15  
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

**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 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).



REVISIONS:	RECORD DWG 2015

**CH2MHILL**  
1000 NE CIRCLE BLVD,  
BLDG 10, SUITE 10350  
CORVALLIS, OR 97330

DESIGNED BY: T. LANEY  
CHECKED BY: B. SIMONDS  
APPROVED BY: B. FULLER  
SCALE: NTS  
FILE: 01-G-0001-SW0707  
DATE: **SEPT 2015**

VERIFY SCALES  
0 \_\_\_\_\_ 1"  
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: **01-G-0001A**

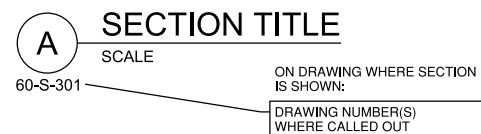
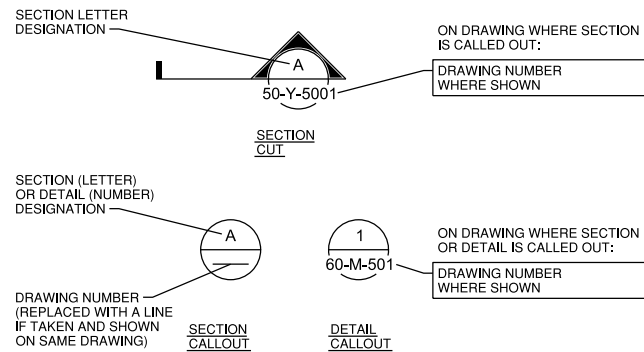
SHEET: **1**

COB # **SW0707**



# SECTION AND DETAIL IDENTIFICATION

## SECTION AND DETAIL DESIGNATIONS

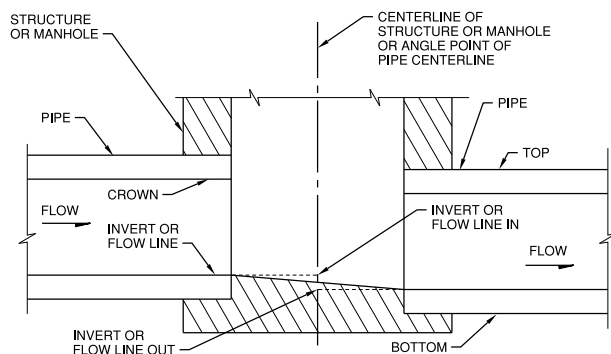


## DESIGN DETAIL DESIGNATION



### NOTES:

- ALL DESIGN DETAILS ARE TYPICAL AND MUST BE USED IF DESIGN DETAIL DESIGNATION IS NOT SHOWN.
- THE TERM STANDARD DETAIL, OR A FORM OF IT, IS SYNONYMOUS WITH DESIGN DETAIL AND REFERS TO THE DESIGN DETAILS FOUND IN THIS SET OF CONTRACT DOCUMENTS.
- THE DESIGN DETAILS REPRESENT THE CHARACTER AND NATURE OF THE WORK REQUIRED THROUGHOUT THE PROJECT. ALL ASSOCIATED WORK SHALL BE IN ACCORDANCE WITH THE DESIGN DETAILS SHOWN WHETHER THE DETAILS ARE SPECIFICALLY REFERENCED OR NOT.



### MANHOLE TERM DEFINITIONS:

- PIPE LENGTHS SHOWN ON DRAWINGS ARE FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
- PIPE SLOPES ARE COMPUTED FROM PIPE LENGTHS AND INVERTS AT CENTER OF MANHOLE PIPE SLOPE IN FT/FT UNLESS SHOWN AS %.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF MANHOLES WITH INVERTS CALCULATED WITH THESE MANHOLE TERM DEFINITIONS.

# MAPPING NOTES

- SOURCE OF TOPOGRAPHY AND PLANIMETRICS FOR ROAD FEATURES FROM CURB TO CURB ON EDGE OF PAVEMENT, SHOWN ON THE CIVIL PLANS ARE BASE MAPS PROVIDED BY otak, Inc. ORIGINAL SURVEY DATED JUNE 2010 WITH UPDATES THRU APRIL 2011. ADDITIONAL MAPPING HAS BEEN ADDED FROM GIS DATA FROM THE CITY OF BEND, OREGON. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADJUST WORK PLAN ACCORDINGLY PRIOR TO BEGINNING CONSTRUCTION.
- EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
- HORIZONTAL DATUM: CENTRAL OREGON COORDINATE SYSTEM
- VERTICAL DATUM: NGVD 29, EXISTING GRADE OBTAINED FROM GPS SURVEY AND HAS A VERTICAL ACCURACY OF +/- 0.2 FEET.
- MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
- TAX LOTS AND PROPERTY LINES ARE APPROXIMATE. FIELD VERIFY PROPERTY CORNERS AND BOUNDARIES AS NECESSARY IN AREAS WHERE CONSTRUCTION MAY ENCRoACH ONTO PRIVATE PROPERTY.

# GENERAL CIVIL SITE NOTES

- COORDINATES AND DIMENSIONS SHOWN FOR ROADWAY IMPROVEMENTS ARE TO FACE OF CURB OR EDGE OF PAVEMENT.
- ALL CALLOUTS AND NOTES ARE DIRECTED TO CONTRACTOR UNLESS SPECIFICALLY STATED OTHERWISE.
- DRAWING SCALES ARE SHOWN FOR REFERENCE ONLY. DIMENSIONS ON THE DRAWINGS SHALL BE USED FOR CONSTRUCTION AND SHALL TAKE PRECEDENCE OVER SCALED MEASUREMENTS.
- IN GENERAL, EXISTING STRUCTURES AND FACILITIES ARE NOTED AS EXISTING AND SHOWN IN LIGHT LINE WEIGHTS OR AS SCREENED BACKGROUND. NEW FEATURES ARE SHOWN IN HEAVY LINE WEIGHT.
- HORIZONTAL DIMENSIONS ON PLAN AND PROFILE DRAWINGS TO PIPELINES, MANHOLES, AND OTHER FACILITIES, ARE TO THE CENTERLINES OF THOSE FACILITIES UNLESS SPECIFICALLY NOTED OTHERWISE. PIPELINE LENGTHS ARE MEASURED HORIZONTALLY. (I.E. PLANAR - NOT CORRECTED FOR SLOPE)
- THE ABBREVIATIONS AND SYMBOLS IN THESE PLANS TAKE PRIORITY OVER THOSE IN THE STANDARD SPECIFICATIONS.
- MANHOLES AND STRUCTURES ARE SHOWN ON PLAN AND PROFILE DRAWINGS SYMBOLICALLY. CONSTRUCT MANHOLES AND OTHER STRUCTURES AS SHOWN ON DETAIL DRAWINGS AND AS REQUIRED BASED ON ACTUAL DIMENSIONS.
- DAMAGE TO EXISTING FEATURES ASSOCIATED WITH CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT CONTRACTOR'S SOLE EXPENSE.
- PROTECT PUBLIC AND PRIVATE PROPERTY IN ACCORDANCE WITH SECTION 00170 OF THE ODOT STANDARD SPECIFICATIONS.
- PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY AT ALL TIMES. FOLLOW OWNER'S REQUIREMENTS FOR SECURITY.
- ELEVATIONS FOR NEW CONSTRUCTION ARE TO FINISH GRADE UNLESS SHOWN OTHERWISE.
- SLOPE UNIFORMLY BETWEEN NEW AND EXISTING CONTOURS AND SPOT ELEVATIONS IN NEW GRADING AREAS WITH NO LOW POINTS OR SAGS THAT WOULD CREATE "BIRD BATHS".
- UNLESS SHOWN ON THE PLANS, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE RESTORED PER SPECIFICATIONS.
- ALL WORK SHALL CONFORM TO THESE DRAWINGS AND SPECIFICATIONS.

# TRAFFIC CONTROL NOTES

- PROVIDE TRAFFIC CONTROL PLANS FOR RELOCATION OF UTILITIES IF NEGOTIATED WITH UTILITY PURVEYORS, AND PAVEMENT OVERLAY ACTIVITIES. SUBMIT TRAFFIC CONTROL PLANS TO THE CITY OF BEND FOR APPROVAL 2 WEEKS PRIOR TO CONSTRUCTION ACTIVITIES REQUIRING TRAFFIC CONTROL. DO NOT CONSTRUCT UNTIL APPROVAL IS RECEIVED.
- TEMPORARY WORK ZONE FENCING SHALL BE CONSTRUCTED AROUND ALL WORK AREAS DURING NON-WORKING HOURS OR IF UNSUPERVISED/UNMONITORED BY CONTRACTOR. WORK AREAS TO INCLUDE, BUT NOT LIMITED TO, OPEN TRENCHES, STOCKPILE AREAS, MATERIALS, EQUIPMENT, AND ANY OTHER POTENTIAL HAZARDS THAT SHOULD BE FENCED OFF FROM THE PUBLIC. IF NECESSARY, INSTALL GATES AND FENCED CORRIDORS TO ALLOW PUBLIC ACCESS ACROSS CONTROLLED AREAS OF THE WORK ZONE.
- FOR WORK HOURS, SEE CONTRACT SPECIFICATIONS.
- TRAFFIC CONTROL DEVICES AND PROTECTIVE FENCING (IF NECESSARY) ARE TO BE MAINTAINED 24 HOURS A DAY, 7 DAYS A WEEK.

# RECORD DRAWINGS

Revisions Drawn By O. VEGVARY Date 9/15/15  
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# GENERAL CONSTRUCTION NOTES

- CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS, INVERT ELEVATIONS, AND MATERIAL OF ALL EXISTING SEWER PIPES OR MANHOLES AT THE POINTS OF TIE-IN PRIOR TO COMMENCING ANY NEW SEWER CONSTRUCTION OR ORDERING ANY NEW MANHOLES OR COMPONENTS THAT WOULD BE AFFECTED. SHOULD ANY LOCATION, ELEVATION OR MATERIAL DIFFER FROM THAT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR DIRECTION.
- ALL MATERIALS USED FOR CONSTRUCTION SHALL BE NEW AND UNDATED AND SHALL BE AVAILABLE FOR INSPECTION AND APPROVAL BY THE CITY OF BEND PRIOR TO INSTALLATION.
- DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THE PROJECT SHALL BE KEPT CLEAN OF MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED.
- THE CONTRACTOR SHALL COMPLY WITH ALL OTHER PERMITS AND OTHER REQUIREMENTS BY THE CITY OF BEND OR OTHER GOVERNING AUTHORITY OR AGENCY AS MAY BE APPLICABLE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES TO PRIVATE PROPERTY AND COSTS ASSOCIATED WITH RESTORING PROPERTY TO ORIGINAL OR BETTER CONDITION.
- NO LIVE SEWER SERVICE CONNECTIONS TO THE SEI ARE ALLOWED UNDER THIS CONTRACT.
- ALL CONSTRUCTION WORK SHOWN HEREIN IS SUBJECT TO SEQUENCING AND SCHEDULING REQUIREMENTS AS SPECIFIED IN SECTION 00150 CONTROL OF WORK. PLAN AND EXECUTE ALL WORK ACCORDINGLY.
- COORDINATE ALL BLASTING ACTIVITIES WITH TRAFFIC CONTROL.
- SET ALL INVERTS TO MATCH EXISTING PIPES AT CONNECTION POINTS WITH THE NEW SANITARY SEWER PIPING AND MATCH THE SLOPE OF THE EXISTING PIPING WITH NO LOW POINTS OR SAGS. ADJUST INVERTS OF NEW MANHOLES AND PIPING AS NECESSARY AND AS APPROVED BY THE ENGINEER.
- PROVIDE TEMP FENCE AROUND ENTIRE WORK ZONE PERIMETER DURING NON-WORK HOURS.

# GENERAL UTILITY NOTES

- COMPLY WITH THE RULES OF THE OREGON UTILITY NOTIFICATION CENTER. THE UTILITIES NOTIFICATION CENTER TELEPHONE NUMBER IS 1-800-332-2344.
- LOCATIONS SHOWN FOR EXISTING SUBSURFACE UTILITIES WERE OBTAINED FROM EXISTING RECORDS, SURFACE FEATURES, UTILITY DESIGNATING, AND LIMITED POTHOLES. SUBSURFACE UTILITY MAPPING GENERALLY MEETS QUALITY LEVEL B (QL-B) AS DEFINED BY "ASCE STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA", UNLESS INDICATED OTHERWISE. POTHOLE LOCATIONS MEET QL-A AT THE POTHOLE LOCATION ONLY. SEE POTHOLES TABLE ON DWG 01-G-0007.
- ALL LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE EXCEPT AT POTHOLES LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE CORRECT AND TRUE LOCATION IN ALL AREAS THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES TO AVOID DAMAGE, DISTURBANCE, OR INTERRUPTION OF SERVICE TO UTILITY CUSTOMERS.
- NOT ALL OVERHEAD UTILITIES INCLUDING ELECTRICAL POWER, TELEPHONE, CABLE TV, AND OTHER OVERHEAD LINES ARE SHOWN. THE LINES THAT ARE SHOWN ARE LOCATED BY POINT-TO-POINT OR POLE OR TOWER TO POLE OR TOWER. DETERMINE THE EXTENT OF HAZARDS OR IMPACTS ON CONSTRUCTION ACTIVITIES CREATED BY OVERHEAD OR UNDERGROUND ELECTRICAL POWER, TELEPHONE, CABLE TV, AND OTHER LINES IN ALL AREAS, AND FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY ALL STATE, LOCAL, AND FEDERAL LAW AND REGULATIONS. PRIOR TO CONSTRUCTION, MEET WITH UTILITY OWNERS TO DETERMINE THE EXTENT OF HAZARDS AND TAKE WHATEVER PRECAUTIONS AND REMEDIAL MEASURES THAT MAY BE REQUIRED TO PROTECT PERSONS AND PROPERTY AND TO AVOID DISRUPTION OF SERVICE.
- MAINTAIN MINIMUM SEPARATION BETWEEN SANITARY SEWER AND EXISTING POTABLE WATER LINES. FIELD VERIFY LOCATIONS OF ALL EXISTING POTABLE WATER LINES WITHIN THE MINIMUM SEPARATION DISTANCE REQUIREMENTS BETWEEN POTABLE WATER AND SANITARY SEWER PER OAR 333. RELOCATE POTABLE WATER TO PROVIDE MIN SEPARATION OR MODIFY POTABLE WATER AND/OR SANITARY SEWER AS REQUIRED. SEE (3305-701).
- PRESERVE AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. MAINTAIN SERVICE TO ALL CUSTOMERS WHO MAY BE AFFECTED BY TEMPORARY DISTURBANCES AND/OR TEMPORARY RELOCATIONS DURING CONSTRUCTION. PRESERVING AND PROTECTING UTILITIES IS CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ANY NATURAL GAS PIPELINES TO BE RELOCATED BY CASCADE NATURAL GAS AS SHOWN ON THE PLANS, REQUIRE NOTIFICATION TO CASCADE NATURAL GAS A MINIMUM TWO WEEKS IN ADVANCE OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE ALL WORK WITH CASCADE NATURAL GAS.
- ANY WATER LINES TO BE RELOCATED BY CONTRACTOR AS SHOWN ON THE PLANS REQUIRE NOTIFICATION A MINIMUM TWO WEEKS IN ADVANCE OF CONSTRUCTION. CONTRACTOR TO COORDINATE WITH AVION WATER, AND CITY OF BEND.
- ANY TELEPHONE OR CABLE TO BE RELOCATED AS SHOWN ON THE PLANS REQUIRES NOTIFICATION MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION. CONTRACTOR TO COORDINATE WITH CENTURYLINK, BEND BROADBAND OR THE AFFECTED UTILITY.
- CONDUITS AND DIRECT BURY WIRES, IF PRESENT, FOR TRAFFIC CONTROL AND LUMINAIRES ARE NOT SHOWN. FIELD LOCATE AND PRESERVE AND PROTECT OR RELOCATE AS REQUIRED.
- MAINTAIN MINIMUM CLEARANCE TO OVERHEAD UTILITIES AS REQUIRED BY THE UTILITY OWNER. COORDINATE ALL ACTIVITIES NEAR OVERHEAD UTILITIES WITH THE OWNER.
- THE DRAWINGS DO NOT SHOW THE NEW LOCATION OF ANY UTILITIES RELOCATED BY THE UTILITY OWNERS PRIOR TO CONSTRUCTION. COORDINATE WITH UTILITY OWNERS FOR ALL REVISED UTILITY LOCATIONS. SEE SPECIFICATION SECTION 00150 CONTROL OF WORK. UTILITY OWNERS ARE RESPONSIBLE FOR MOVING UTILITIES WITHIN THE CITY'S RIGHT OF WAY.
- EXISTING THRUST BLOCKING ON EXISTING WATERLINES IS NOT SHOWN, BUT MAY BE ENCOUNTERED DURING CONSTRUCTION OF SEI. FIELD VERIFY THE ABSENCE OF THRUST BLOCKING AT ALL EXISTING TEES AND ANGLES IN THE EXISTING WATER LINE. FIELD VERIFY AT LEAST 1 WEEK IN ADVANCE OF ENCOUNTERING POTENTIAL THRUST BLOCKING. IMMEDIATELY NOTIFY WATER UTILITY IF THRUST BLOCKING IS ENCOUNTERED AND CEASE ALL EXCAVATION AROUND EXISTING THRUST BLOCKING UNTIL WATER UTILITY EVALUATES EXISTING CONDITIONS AND DEVELOPS A PLAN FOR PROTECTING THE EXISTING WATERLINE. ALLOW 1 WEEK FOR THE WATER UTILITY TO PROVIDE A PLAN FOR FURTHER WORK AROUND THE AFFECTED WATERLINE. IN AREAS OF WATERLINE REMOVAL, REMOVE ALL THRUST BLOCKING AND DISPOSE OFFSITE.

FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

BEND SE INTERCEPTOR  
 DETAIL LEGEND AND  
 CONSTRUCTIONS NOTES  
 DESCHUTES COUNTY, OREGON



REVISIONS:	RECORD DWG 2015
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**CH2MHILL**

1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
 CORVALLIS, OR 97330

DESIGNED BY: T. LANEY  
 CHECKED BY: B. SIMONDS  
 APPROVED BY: B. FULLER  
 SCALE: NTS  
 FILE: 01-G-0003-SW0707  
 DATE: SEPT 2015

VERIFY SCALES  
 0 1"  
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 01-G-0003

SHEET: 3

COB # SW0707

# ABBREVIATIONS

24/7	24 HOURS PER DAY/ 7 DAYS PER WEEK	N	NORTH
@	AT	NCP	NONREINFORCED CONCRETE PIPE
A/C	ASPHALT CONCRETE	NE	NORTHEAST
AHD	AHEAD	NO	NUMBER
ALUM	ALUMINUM	NTS	NOT TO SCALE
AVE	AVENUE	NUID	NORTH UNIT IRRIGATION DISTRICT
AVION	AVION WATER UTILITY	NW	NORTHWEST
BK	BACK	OC	ON CENTER
BOT	BOTTOM	OD	OUTSIDE DIAMETER
CASCADE, CNG	CASCADE NATURAL GAS UTILITY	OH/OHP	OVERHEAD POWER
CATV	TELEVISION	OWM	WATER METER
CIP	CAST IRON PIPE	P	POWER
CL	CENTERLINE	PE	PERMANENT EASEMENT
CLSMD	CONTROLLED LOW STRENGTH MATERIAL	PK/WSHR	PK NAIL WITH WASHER
COB	CITY OF BEND	PL	PROPERTY LINE
COID	CENTRAL OREGON IRRIGATION DISTRICT	P.S., PS	PRESSURE SEWER; PUMP STATION
CMP	CORRUGATED METAL PIPE	PP	POWER POLE
CONC	CONCRETE	PRDWAG	PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES
CTRL	CONTROL	PUE	PUBLIC UTILITY EASEMENT
DIA	DIAMETER	PVC	POLYVINYLCHLORIDE
DWG	DRAWING	PVMT	PAVEMENT
DIP	DUCTILE IRON PIPE	QWEST	CENTURY LINK COMMUNICATIONS UTILITY
DR	DRIVE OR DIMENSION RATIO	QL-A	QUALITY LEVEL A
DRW	DRAWING	QL-D	QUALITY LEVEL D
D/W	DRIVEWAY	QPL	QUALIFIED PRODUCTS LIST
DTM	DIGITAL TERRAIN MODEL	RCP	REINFORCED CONCRETE PIPE
E	EAST	RD	ROAD
EB	EAST BOUND	REQD, REQ'D	REQUIRED
EC	EDGE OF CURB	RJ	RESTRAINED JOINT
EL, ELEV	ELEVATION	RT	RIGHT
EXST	EXISTING	RR	RAILROAD
EW	EACH WAY	R/W, ROW	RIGHT OF WAY
FL	FLOW LINE	S	SLOPE OR SOUTH
FM	FORCE MAIN	SD	STORM DRAIN
FO	FIBER OPTIC	SDR	STANDARD DIMENSION RATIO
FT	FEET	SE	SOUTHEAST
G	GAS	SEI	SOUTHEAST INTERCEPTOR
GM	GRAVITY MAIN	SFM	SEWER FORCE MAIN
HDPE	HIGH DENSITY POLYETHYLENE	SHT	SHEET
HORIZ	HORIZONTAL	SHY	DISTANCE BETWEEN THE EDGE OF TRAVELED WAY AND THE EDGE OF SHOULDER OR ROADSIDE BARRIER
HP	HIGH PRESSURE	SIG	OVERHEAD SIGNAL
ICV	IRRIGATION CONTROL VALVE	SPEC'D	SPECIFIED
I&C	INSTRUMENTATION AND CONTROL	SS	SANITARY SEWER
IE, I.E.	INVERT ELEVATION	SSS	SANITARY SIDE SEWER
INVT	INVERT	SST	STAINLESS STEEL
IP	IRON POST	STA	STATION
IR	IRON ROD	STL	STEEL
JB	JUNCTION BOX	SW	SOUTHWEST
IRR	IRRIGATION	T, TEL	TELEPHONE
L	LENGTH	TE	TEMPORARY EASEMENT
LT	LEFT	TEMP	TEMPORARY
MANUF	MANUFACTURER	THK	THICK, THICKNESS
MAX	MAXIMUM	TOP	TOP OF PIPE
MH	MANHOLE	TYP	TYPICAL
MIN	MINIMUM	UE	UNDERGROUND ELECTRICAL
MJ	MECHANICAL JOINT	UGP	UNDERGROUND POWER
MKT	MARKET	UT	UNDERGROUND TELECOM
MON	MONUMENT	UW	UNDERGROUND WATER
		VAR	VARIES
		VERT	VERTICAL
		W	WATER, WEST
		W/	WITH
		WB	WEST BOUND
		WT	WEIGHT
		YPC	YELLOW PLASTIC CAP

# CIVIL LEGEND\*

EXISTING	THIS CONTRACT	EXISTING	THIS CONTRACT

\*NOTE:  
FEATURES DISPLAYED WITH DASHED LINETYPES ARE FROM GIS/PHOTOGRAMMETRY DATA AND/OR SKETCHED IN FROM A FIELD WALK-THROUGH. THESE FEATURES WERE NOT SURVEYED. THEIR LOCATIONS ARE APPROXIMATE (+/- 5') ONLY.

**RECORD DRAWINGS**  
 Revisions Drawn By O. VEGVARY Date 9/15/15  
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FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR**  
**ABBREVIATIONS AND CIVIL LEGEND**  
 DESCHUTES COUNTY, OREGON



REVISIONS:


RECORD DWG 2015

**CH2MHILL**  
 1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
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DESIGNED BY: T. LANEY  
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 SHEET: **4**  
 COB # **SW0707**





# SURVEY CONTROL TABLE

## NORTH SURVEY CONTROL

POINT NO.	NORTHING	EASTING	ELEVATION	CODE
20003	372898.86	3301182.04	3707.80	BCPKW
20023	372519.64	3300056.84	3718.93	BCPKW
20025	372448.65	3299697.83	3716.50	BCROCC
20029	372990.48	3300675.59	3701.38	BCPKW
20064	371508.83	3297802.83	3755.27	BCROCC
20065	371446.62	3297208.92	3746.81	BCPKW
20067	371693.83	3298833.70	3746.25	BCROCC

**SURVEY CONTROL CODES:**

ROCC: 5/8" x 30" IRON ROD W/ 1-1/4" RED PLASTIC CAP STAMPED "OTAK CONTROL"  
 PKW: PK NAIL W/ 1-1/2" BRASS WASHER STAMPED "OTAK CONTROL"  
 BC: 1-1/8" BRASS CAP STAMPED "OTAK CONTROL"  
 HTP: PLASTIC HUB AND TACK

**SURVEY CONTROL NOTES:**

- HORIZONTAL COORDINATES ARE CENTRAL OREGON COORDINATE SYSTEM  
 VERTICAL DATUM IS NGVD29
- ELEVATIONS ON NORTH SURVEY CONTROL WERE ESTABLISHED BY OTAK  
 HOLDING DESCHUTES COUNTY BENCHMARKS 349, 351, AND 354.
  - BENCHMARK 349  
 NAME: 18121000  
 ELEVATION: 3718.16  
 DESC: 2" BRASS CAP
  - BENCHMARK 351  
 NAME: 18121040  
 ELEVATION: 3709.93  
 DESC: 2-1/2" BRASS CAP
  - BENCHMARK 354  
 NAME: 18121140  
 ELEVATION: 3705.54  
 DESC: 2" BRASS CAP
- CONTRACTOR SHALL VERIFY CONTROL ELEVATIONS AT BEGINNING OF  
 CONSTRUCTION AND NOTIFY ENGINEER OF ANY DIFFERENCES.

FOR SEALS AND  
 SIGNATURES,  
 SEE ORIGINAL  
 DRAWINGS DATED  
 JULY 2014

**BEND SE INTERCEPTOR**  
**SURVEY CONTROL**  
**TABLE**  
 DESCHUTES COUNTY, OREGON



REVISIONS:


RECORD DWG. 2015  
 WCD 1

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Revisions Drawn By     O. VEGVARY     Date     9/15/15    

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 BAR EQUALS ONE INCH  
 ON ORIGINAL DRAWING

DWG: **01-G-0007**  
 SHEET: **6**  
 COB # **SW0707**

## DESIGN CRITERIA

1. APPLICABLE CODE: 2009 INTERNATIONAL BUILDING CODE (IBC), AS AMENDED BY THE STATE OF OREGON AND ALL OTHER APPLICABLE LOCAL AGENCIES.
2. REFER TO THE DRAWINGS FOR ADDITIONAL AND SPECIFIC STRUCTURE LOADINGS AND REQUIREMENTS.
3. MH ROOF LOADS  
GROUND SNOW LOAD 25 PSF  
LIVE LOAD H2O LOADING PLUS BACKFILL ABOVE ROOF SLAB
4. SOIL DESIGN PARAMETERS:  
A. NET ALLOWABLE SOIL BEARING PRESSURES:  
1500 PSF  
B. EARTH PRESSURE COEFFICIENT:  $K_0 = .50$ ,  $K_a = .27$   
C. VERTICAL SURCHARGE 250 PSF  
D. SOIL UNIT WEIGHT: 130 PSF  
E. ASSUMED GROUND WATER ELEVATION IS LOCATED 10' ABOVE BOTTOM INVERT OF MH
5. FROST DEPTH: 18 IN
6. SEISMIC DESIGN CRITERIA:  
IBC SEISMIC, USGS 2008 MAPPED VALUES:  
MAPPED SPECTRAL RESPONSE ACCELERATIONS  
 $S_s = .386g$   
 $S_1 = .161g$   
SPECTRAL RESPONSE COEFFICIENTS  
 $S_{ds} = .257g$   
 $S_{d1} = .107g$   
 $I_e = 1.0$   
SITE SOIL CLASS B

## FOUNDATIONS

1. REFER TO GEOTECHNICAL DATA REPORT BY CH2M HILL, DATED JANUARY 2012.
2. EXCAVATIONS SHALL BE SHORED TO PREVENT SUBSIDENCE OR DAMAGE TO ADJACENT EXISTING STRUCTURES, STREETS, UTILITIES, ETC.
3. ALL FOUNDATION SLABS SHALL BEAR ON 12 INCHES OF AGGREGATE BASE ROCK.
4. ALL FOUNDATION BEARING SURFACES SHALL BE OBSERVED BY A GEOTECHNICAL ENGINEER OR HIS DESIGNEE PRIOR TO PLACEMENT OF FORMING OR REINFORCING STEEL. THE OBSERVATION SHALL VERIFY THAT THE ACTUAL EXPOSED SUBGRADE IS AS ANTICIPATED BY THE SITE SPECIFIC BORINGS, TEST PITS, TESTING AND DATA REPORTS.
5. NO BACKFILL SHALL BE PLACED BEHIND WALLS UNTIL THE WALLS HAVE ATTAINED 100 PERCENT OF THEIR SPECIFIED COMPRESSIVE STRENGTH AND TOP SUPPORTING SLAB'S CONCRETE HAVE ATTAINED 80 PERCENT OF THEIR SPECIFIED COMPRESSIVE STRENGTH.

## FORMWORK, SHORING AND BRACING

1. STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. DESIGN SHOWN DOES NOT INCLUDE NECESSARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE STRUCTURES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.
2. TEMPORARY SHORING SHALL REMAIN IN PLACE UNTIL ELEVATED SLABS AND BELOW GRADE CONCRETE WALLS HAVE REACHED 80 PERCENT OF THE 28 DAY DESIGN STRENGTH AS DETERMINED BY CYLINDER BREAKS.

## CONCRETE REINFORCING

1. CLEARANCE FOR REINFORCEMENT BARS, UNLESS SHOWN OTHERWISE, SHALL BE:  
WHEN PLACED ON GROUND: 3"  
ALL OTHER CONCRETE SURFACES 2"
2. 90 DEGREE BENDS, UNLESS OTHERWISE SHOWN, SHALL BE ACI 318 STANDARD HOOKS.
3. REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:

CONCRETE DESIGN STRENGTH = 4,000 PSI						
GRADE 60 REINFORCING STEEL						
BAR SIZE	#3	#4	#5	#6	#7	#8
LAP SPLICE LENGTH						
SPACING $\leq 6"$	TOP BAR *	1'-4"	2'-0"	3'-0"	4'-0"	5'-10"
	OTHER BAR	1'-4"	1'-7"	2'-4"	3'-1"	4'-6"
SPACING $\geq 6"$	TOP BAR *	1'-4"	1'-6"	2'-0"	2'-5"	3'-6"
	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	2'-9"
EMBEDMENT LENGTH						
SPACING $\leq 6"$	TOP BAR *	1'-0"	1'-7"	2'-4"	3'-1"	4'-6"
	OTHER BAR	1'-0"	1'-3"	1'-9"	2'-5"	3'-6"
SPACING $\geq 6"$	TOP BAR *	1'-0"	1'-3"	1'-7"	1'-10"	2'-9"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-1"

\* TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.

## CONCRETE

1. 28-DAY CAST-IN-PLACE CONCRETE STRENGTHS:  
TYPICAL: 4000 PSI  
CONCRETE FILL: 4000 PSI  
CURBS AND SIDEWALKS: 3000 PSI  
CONDUIT ENCASEMENTS: 3000 PSI  
PIPE ENCASEMENTS NOT INTEGRAL WITH FOUNDATIONS: 3000 PSI
2. REINFORCING STEEL: ASTM A615, GRADE 60  
WELDING OF REINFORCING IS PROHIBITED.
3. FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MSP-1 'MANUAL OF STANDARD PRACTICE' AND ACI 301 'SPECIFICATIONS FOR STRUCTURAL CONCRETE'.
4. CONTINUOUS HYDROPHILIC WATERSTOP AS SPECIFIED SHALL BE INSTALLED IN CONSTRUCTION JOINT BETWEEN EXISTING CONCRETE AND NEW CONCRETE.
5. ROUGHEN AND CLEAN CONSTRUCTION JOINTS IN WALLS AND SLABS AS SPECIFIED PRIOR TO PLACING ADJACENT CONCRETE.
6. NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.

## GENERAL INFORMATION

1. FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 'ABBREVIATIONS AND ACRONYMS: PUBLICATION AS DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).
2. DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.
3. EXISTING STRUCTURES SHOWN ARE BASED ON AS-BUILT DRAWINGS, AND DO NOT NECESSARILY REPRESENT THE AS-CONSTRUCTED CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND DETAILING OF THE EXISTING STRUCTURES PRIOR TO CONSTRUCTION.
4. VERIFY FINAL OPENING DIMENSIONS AND OPENING LOCATIONS IN WALLS AND SLABS WITH OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION OF THESE ELEMENTS.
5. STRUCTURAL MEMBERS SHALL NOT BE CUT OR MODIFIED FOR PIPES, DUCTS, ETC. UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.
6. VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS GUARANTOR OF CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE.

## WELDING

1. WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS), LATEST EDITION:  
D1.1, STRUCTURAL WELDING CODE - STEEL
2. REPAIR WELDS FOUND DEFECTIVE IN ACCORDANCE WITH AWS D1.1 SECTION 5.26.
3. BUTT JOINT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) UNLESS INDICATED OTHERWISE.

## RECORD DRAWINGS

Revisions Drawn By O. VEGVARY Date 9/15/15  
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FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

BEND SE INTERCEPTOR  
STRUCTURAL  
GENERAL NOTES  
DESCHUTES COUNTY, OREGON



REVISIONS:  
RECORD DWG 2015

**CH2MHILL**  
1000 NE CIRCLE BLVD,  
BLDG 10, SUITE 10350  
CORVALLIS, OR 97330

DESIGNED BY: T. LANEY  
CHECKED BY: L. KORBUS  
APPROVED BY: B. FULLER  
SCALE: NTS  
FILE: 01-G-0008 SW0707  
DATE: SEPT 2015

VERIFY SCALES  
0 1"  
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 01-G-0008

SHEET: 7

COB # SW0707

FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR  
KEY MAP SOUTH, EROSION AND  
TRAFFIC CTRL - SCHED. F AND G**  
DESCHUTES COUNTY, OREGON



REVISIONS:


RECORD DWG 2015

**CH2MHILL**  
1000 NE CIRCLE BLVD,  
BLDG 10, SUITE 10350  
CORVALLIS, OR 97330

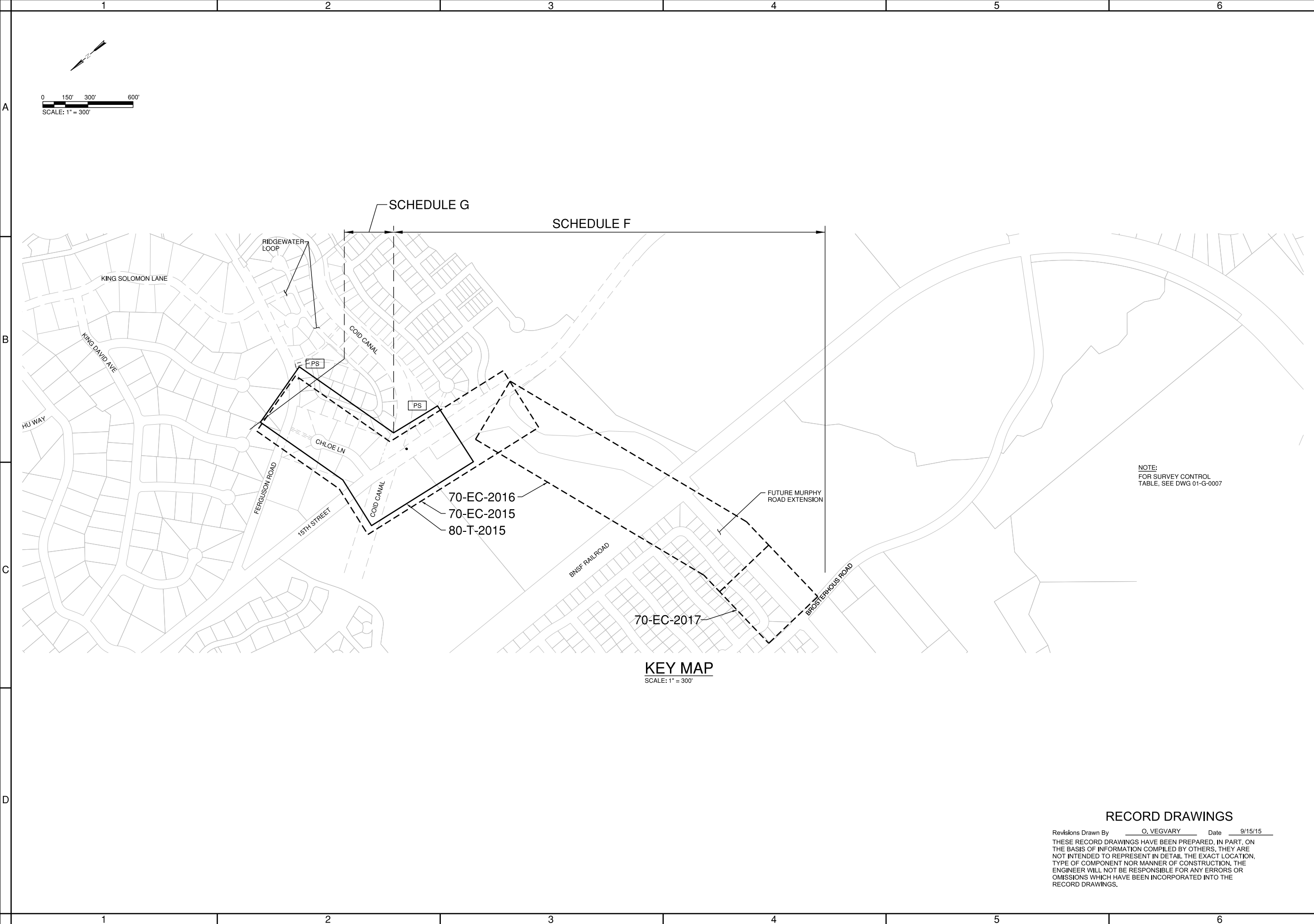
DESIGNED BY: T. LANEY  
CHECKED BY: B. SIMONDS  
APPROVED BY: B. FULLER  
SCALE: AS SHOWN  
FILE: 01-G-0011\_SW0707  
DATE: **SEPT 2015**

VERIFY SCALES  
0 1"  
BAR EQUALS ONE INCH  
ON ORIGINAL DRAWING

DWG: **01-G-0011A**

SHEET: **8**

COB # **SW0707**

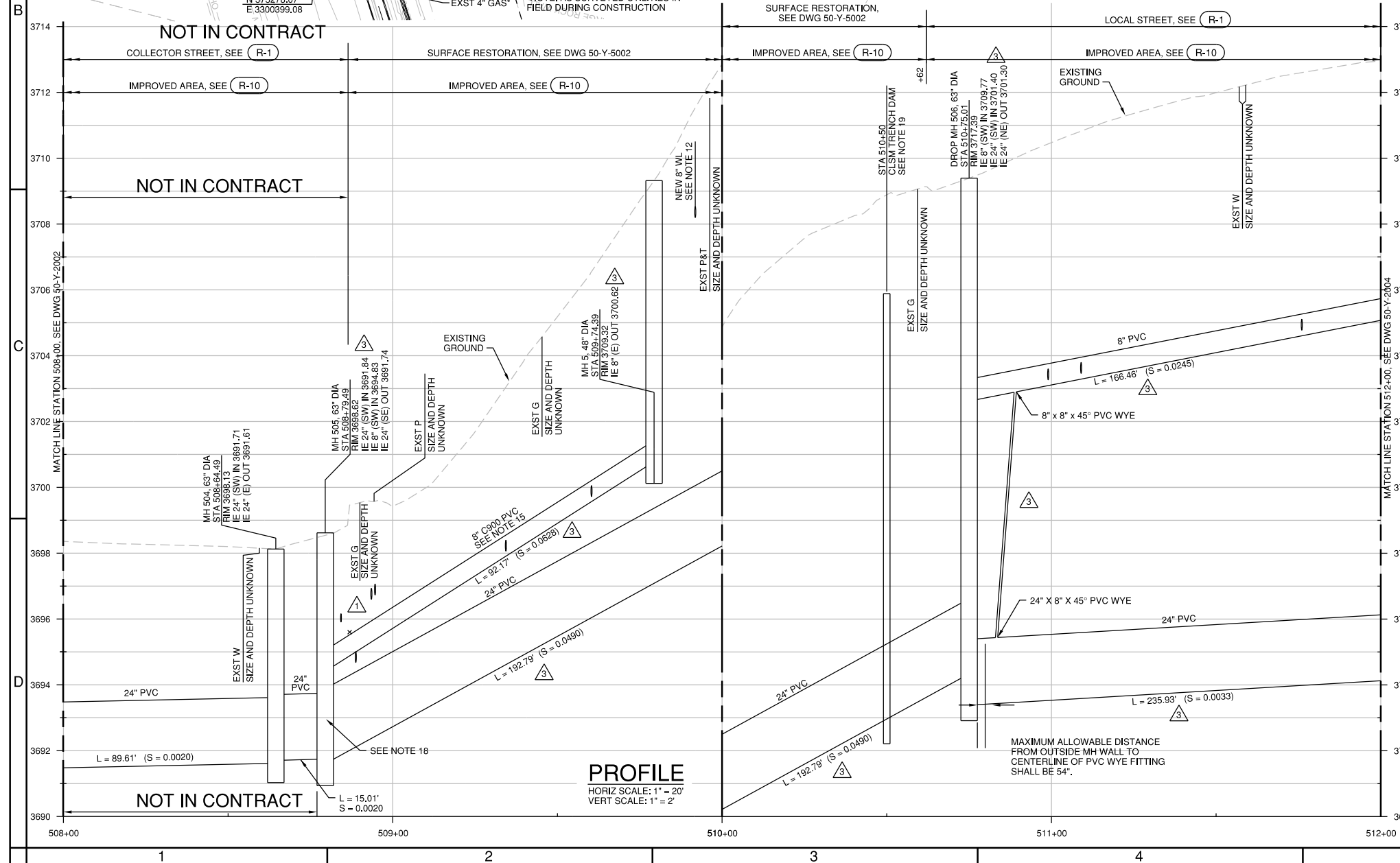
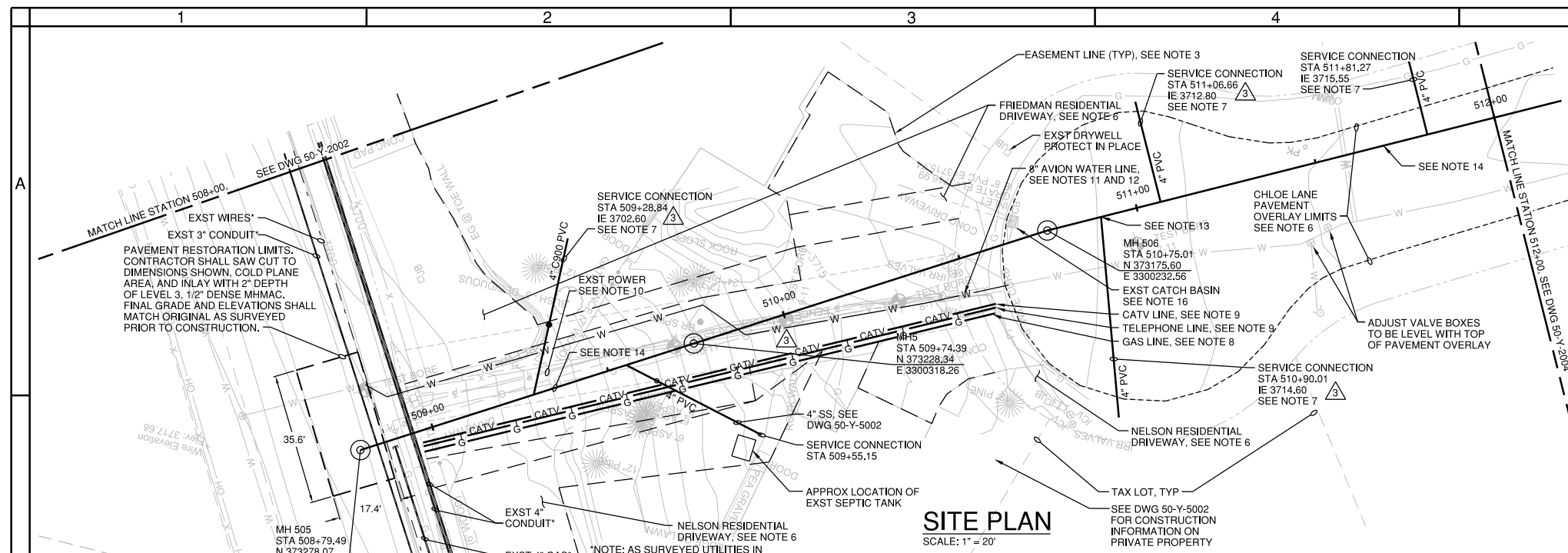


**KEY MAP**  
SCALE: 1" = 300'

NOTE:  
FOR SURVEY CONTROL  
TABLE, SEE DWG 01-G-0007

**RECORD DRAWINGS**

Revisions Drawn By     O. VEGVARY     Date     9/15/15      
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**GENERAL NOTES:**

- A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003, 01-G-0004, AND 01-G-0008.
- B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS AND SPECIFICATION SECTION 00220.
- C. ALL 48" MANHOLES ARE CONCRETE. FOR DETAIL SEE (S-4) TYP. MANHOLES GREATER THAN 48" ARE HDPE UNLESS SHOWN OTHERWISE. SEE DETAIL (3305-714) TYP. ALL CONC MHS SHALL RECEIVE THERMOPLASTIC LINING PER SPECIFICATION SECTION 00470. FOR HDPE DROP MANHOLES, SEE DETAIL (3305-714) SIMILAR, EXCLUSIVE OF 90° BOTTOM BEN, TOP TEE, AND DROP LEG.
- D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

**CONSTRUCTION NOTES:**

- 1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
- 2. NO BLASTING SHALL BE ALLOWED WITHIN PERMANENT OR TEMPORARY CHLOE LANE EASEMENT AREAS. BLASTING SHALL BE ALLOWED ONLY WITHIN PUBLIC RIGHT OF WAY AREAS ON THIS DWG. CONTRACTOR SHALL PERFORM A PREBLAST SURVEY 30 DAYS PRIOR TO CONSTRUCTION CONSISTENT WITH CITY STANDARD SPECIFICATIONS AND AS DESIRED BY PRIVATE PROPERTY OWNERS. A POST CONSTRUCTION SURVEY SHALL ALSO BE COMPLETED. ANY DAMAGE ATTRIBUTED TO CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR.
- 3. FOR EASEMENT INFORMATION SEE DWG 50-Y-5002.
- 4. HOURS OF CONSTRUCTION IN THE CHLOE LN EASEMENT AREA SHALL BE 7:30 AM TO 7:00 PM DAILY. HOURS OF CONSTRUCTION FOR WORK WITHIN THE PUBLIC R/W SHALL BE CONSISTENT WITH CURRENT COB STANDARDS AS DEFINED IN THE SPECIFICATIONS.
- 5. FOR CONSTRAINTS REGARDING REMOVAL AND INSTALLATION OF ALL UTILITIES WITHIN CHLOE LANE PUE, SEE PROJECT SPECIAL CONDITIONS SECTION 00150.
- 6. LIMITS OF PAVEMENT OVERLAY ARE SHOWN. PROVIDE 2" MIN OVERLAY THICKNESS. MHMAC SHALL BE LEVEL 2, 1/2" DENSE. SEE DWG 50-Y-5006 FOR TAPER DETAILS.
- 7. FOR SERVICE LATERAL, SEE (S-2). CLEANOUTS SHALL BE 5' DEEP AT PROPERTY LINE.
- 8. GAS LINE TO BE INSTALLED BY CASCADE NATURAL GAS. SEE PROJECT SPECIAL CONDITIONS 00150 FOR SEQUENCING CONSTRAINTS. PROVIDE NEW GAS SERVICE LINE TO METER IF INTERRUPTED OR DAMAGED BY CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH CNG.
- 9. INSTALL ONE RIGID PVC 4" CONDUIT WITH 30-INCH SWEEP BENDS FOR CENTURY LINK TELEPHONE. INSTALL ONE 2" CLASS 200 PVC CONDUIT WITH 30-INCH SWEEP BENDS FOR BEND BROADBAND CATV. MAINTAIN 6" BETWEEN TELEPHONE AND CATV CONDUITS. PROVIDE TWO SPARE 2" CONDUITS AND TERMINATE WITH CAPS ON EACH END. MARK ALL CONDUITS WITH LOCATING TAPE PER SPECIFICATIONS. MAINTAIN PHONE AND CATV SERVICE DURING CONSTRUCTION AND RESTORE SERVICE FOLLOWING CONSTRUCTION.
- 10. POWER LINE TO BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION.
- 11. CONTRACTOR SHALL INSTALL WATER SERVICE, METER, AND IRRIGATION SERVICE ON BOTH THE NELSON AND FRIEDMAN PROPERTIES. INSTALLATION SHALL BE PER AVION WATER DESIGN STANDARDS. THIS INCLUDES PREMISE ISOLATION, METER, METER BOXES; IRRIGATION BRANCH SERVICE, IRRIGATION BACKFLOW PREVENTER AND ALL VALVES REQUIRED. EACH IRRIGATION SYSTEM WILL BE VALVED AND CAPPED BY CONTRACTOR DOWNSTREAM OF THE BACKFLOW PREVENTER FOR FUTURE EXTENSION BY EACH PROPERTY OWNER. ONE 4-INCH SCHEDULE 40 PVC PIPE SLEEVE SHALL BE INSTALLED FROM THE BACKFLOW PREVENTER UNDER CONCRETE DRIVEWAY ON EACH PROPERTY TO ALLOW FUTURE INSTALLATION OF IRRIGATION LINES UNDER PAVED AREAS BY OTHERS. CONTRACTOR SHALL COORDINATE THE LOCATION OF VALVE BOXES AND SLEEVES WITH HOMEOWNERS. SEE AVION STANDARD DETAIL IN VOLUME 2.
- 12. INSTALL 8" AWWA C-900 PVC DR-19. USE DUCTILE IRON MJ BENDS, WITH MEGALUG RESTRAINT SUITABLE FOR PVC APPLICATION, PROVIDED PAINTED STEEL BELL RESTRAINTS FOR EACH JOINT. WITH STAINLESS STEEL HARDWARE, TIE INTO EXISTING WATER MAIN AT END OF NEW LINE USING DUCTILE IRON GASKETED TRANSITION COUPLING. CONTRACTOR TO DESIGN RESTRAINT ON EXISTING LINE 10 FEET FROM NEW COUPLINGS. REMOVE EXISTING THRUST BLOCKS AT EXISTING BENDS. INSTALL STRADDLE BLOCK STYLE RESTRAINT. COORDINATE SHUTDOWN WITH AVION TO TIE IN EACH END AFTER DISINFECTION OF THE NEW LINE. MAINTAIN 3 FT. MINIMUM COVER OVER PIPE EXCEPT WHERE PIPE CROSSES 4" SS SERVICE LATERAL. WATER LINE SHALL BE LOCATED 2 FT. DEEP AT THIS LOCATION. SEE DETAIL (3305-701) FOR CROSSING REQUIREMENTS.
- 13. CONTRACTOR SHALL UNIFORMLY DEFLECT SERVICE LATERAL APPROX 9-DEGREES SO LATERAL ENTERS SEWER AT 90-DEGREE ANGLE.
- 14. 8" SANITARY SEWER LOCATED OVER CENTERLINE OF 24" SEI.
- 15. CONTRACTOR SHALL INSTALL 6" CONCRETE CAP OVER THE TOP OF PIPE APPROX 4-FT UNTIL MINIMUM 3-FT OF COVER OVER TOP OF PIPE IS ACHIEVED.
- 16. REMOVE EXST AND REPLACE WITH NEW DOUBLE CATCH BASIN. SEE DETAILS (R-14) AND (R-17). CONTRACTOR SHALL LOCATE DISCHARGE LOCATION OF CATCH BASIN.
- 17. UTILITIES SHALL REMAIN IN SERVICE AT ALL TIMES.
- 18. CAP HDPE PIPE STUB OUT SIMILAR TO (3305-765).
- 19. PIPE BEDDING, PIPE ZONE, AND TRENCH BACKFILL SHALL BE CLSM AND SHALL EXTEND TO WITHIN 3' BELOW GRADE. CLSM WALL SHALL BE 18" WIDE MIN, ALONG AXIS OF PIPE.
- 20. BIDDERS SHALL NOT TRESPASS ON THE PUBLIC UTILITY EASEMENT DURING OR AFTER BID PERIOD. SEE INVITATION TO BID FOR INFORMATION ON DESIGNATED SITE TOUR OPPORTUNITY.

**RECORD DRAWINGS**

Revisions Drawn By O. VEGVARY Date 9/15/15  
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FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

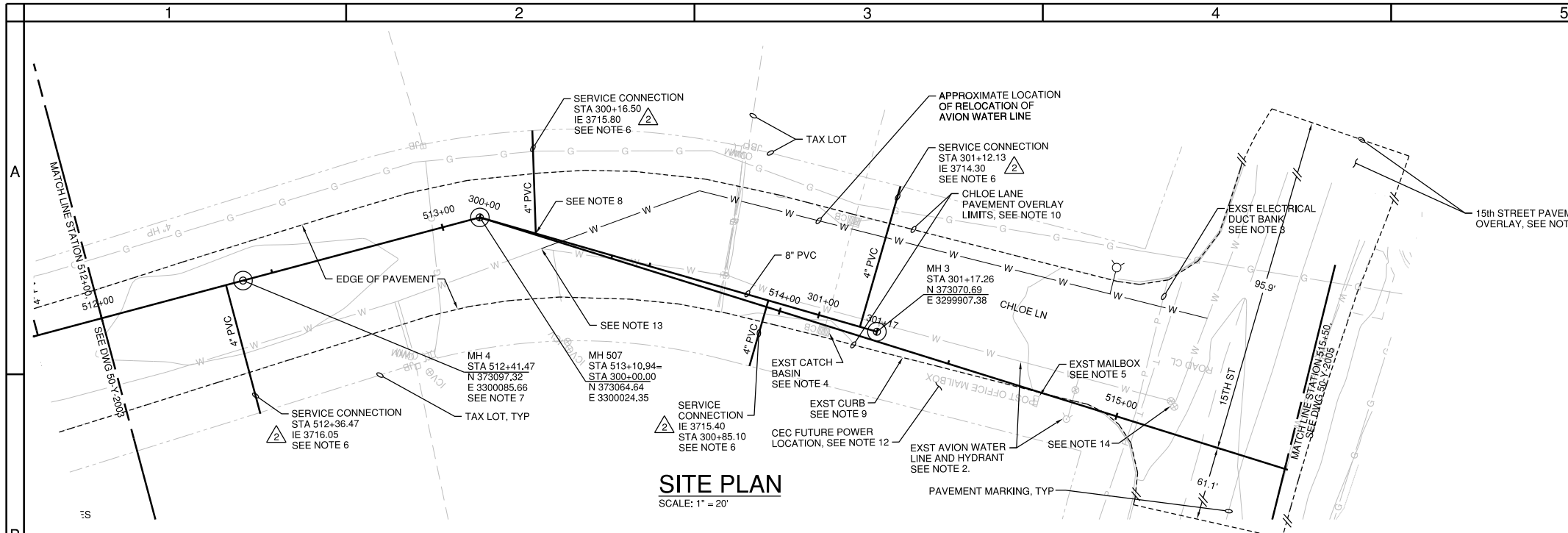
**BEND SE INTERCEPTOR**  
**SITE PLAN AND PROFILE**  
**STATION 508+00 TO 512+00**  
 DESCHUTES COUNTY, OREGON



DESIGNED BY: T. LANEY	RECORD DWG 2015
CHECKED BY: B. SIMONDS	DCVR 15
APPROVED BY: B. FULLER	DCVR 14
SCALE: AS SHOWN	
FILE: 50-Y-2003 SW0707	
DATE: SEPT 2015	

**CH2MHILL**  
 1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
 CORVALLIS, OR 97330

DESIGNED BY: T. LANEY	VERIFY SCALES
CHECKED BY: B. SIMONDS	0 1"
APPROVED BY: B. FULLER	BAR EQUALS ONE INCH ON ORIGINAL DRAWING
SCALE: AS SHOWN	DWG: 50-Y-2003
FILE: 50-Y-2003 SW0707	SHEET: 9
DATE: SEPT 2015	COB # SW0707



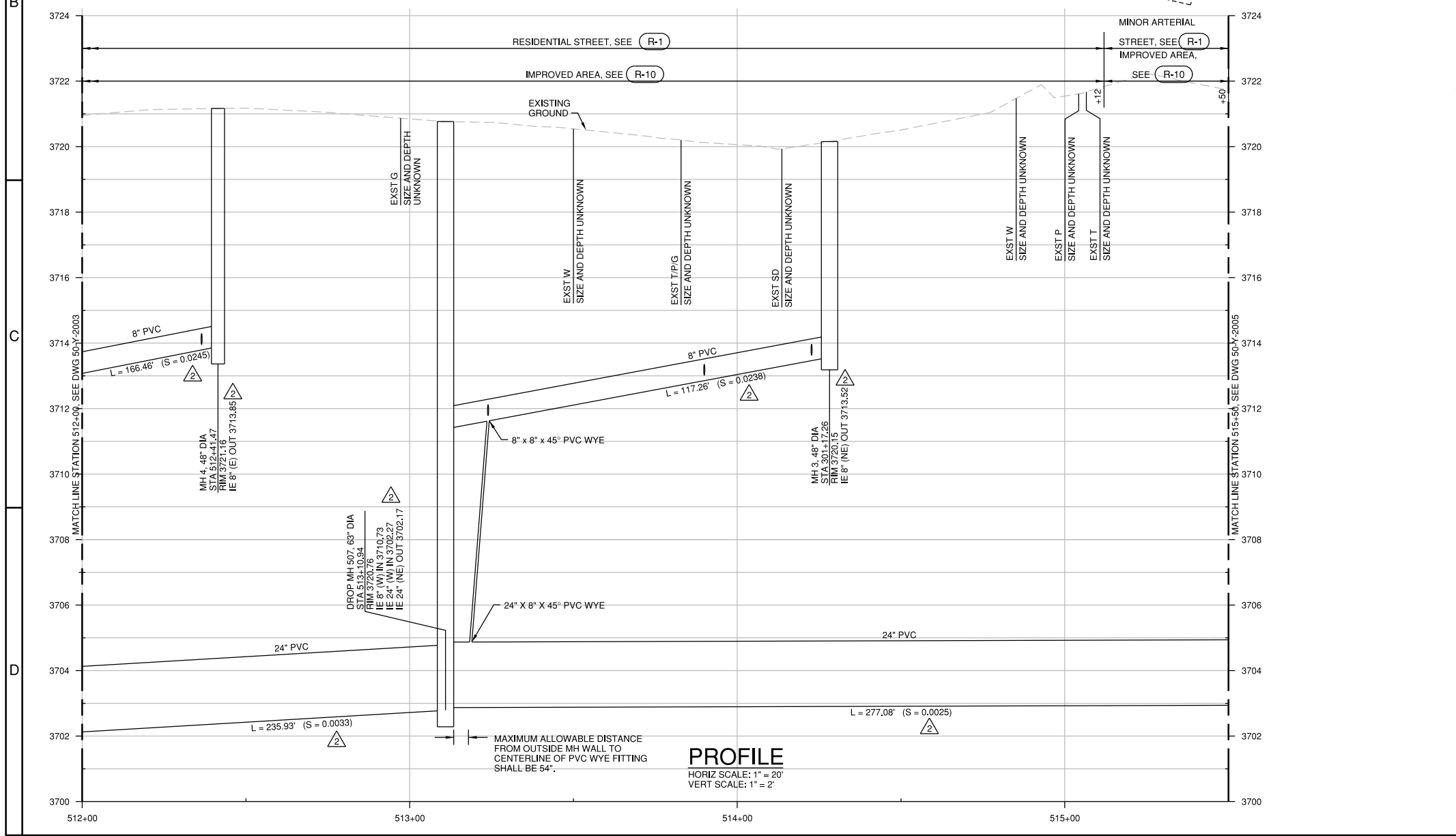
**SITE PLAN**  
SCALE: 1" = 20'

**GENERAL NOTES:**

- A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003, 01-G-0004, AND 01-G-0008.
- B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS AND SPECIFICATION SECTION 00220.
- C. ALL 48" MANHOLES ARE CONCRETE. FOR DETAIL SEE (S-4) TYP. MANHOLES GREATER THAN 48" ARE HDPE UNLESS SHOWN OTHERWISE, SEE DETAIL (3305-714) TYP. ALL CONC MH'S SHALL RECEIVE THERMOPLASTIC LINING PER SPECIFICATION SECTION 00470. FOR HDPE DROP MANHOLES, SEE DETAIL (3305-714) SIMILAR.
- D. EXCLUSIVE OF 90° BOTTOM BEN, TOP TEE, AND DROP LEG. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

**CONSTRUCTION NOTES:**

- 1. SEE DWG 01-G-0003 FOR GENERAL CONSTRUCTION NOTES.
- 2. REMOVE EXISTING AVION WATER LINE AND HYDRANT (IF REMAINING) BETWEEN STA 513+30 AND STA 515+20.
- 3. MAJOR ELECTRIC CONDUIT DUCT BANK. ANTICIPATE GREATER THAN 5' WIDE.
- 4. REMOVE EXST AND REPLACE WITH NEW DOUBLE CATCH BASIN. SEE DETAILS (R-14) AND (R-17).
- 5. REMOVE AND TEMPORARILY RELOCATE MAILBOX TO MAINTAIN MAIL SERVICE AS NEEDED DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH POSTAL SERVICE.
- 6. FOR SERVICE LATERAL, SEE (S-2). CLEAN OUTS SHALL BE 5' DEEP AT PROPERTY LINE.
- 7. 48" MH FOR 8" SANITARY SEWER LOCATED OVER CENTERLINE OF 24" SEI.
- 8. CONTRACTOR SHALL INSTALL 11.25-DEGREE BEND IMMEDIATELY DOWNSTREAM OF CLEANOUT AT PROPERTY LINE. CONTRACTOR SHALL UNIFORMLY DEFLECT SERVICE LATERAL APPROX 7 DEGREES SUCH THAT LATERAL IS ORIENTED TO COLLECTOR AT 90 DEGREES IMMEDIATELY.
- 9. EXST CURB WILL BE IMPACTED DURING PIPE INSTALLATION. REPLACE TO MATCH EXISTING CURB.
- 10. LIMITS OF PAVEMENT OVERLAY ARE SHOWN. PROVIDE 2" MINIMUM OVERLAY THICKNESS. MHMAC SHALL BE LEVEL 2, 1/2" DENSE. SEE DWG 50-Y-5006 FOR TAPER DETAILS.
- 11. LIMITS OF PAVEMENT OVERLAY ARE SHOWN. PROVIDE 2" MINIMUM OVERLAY THICKNESS. MHMAC SHALL BE LEVEL 3, 1/2" DENSE. SEE DWG 50-Y-5006 FOR TAPER DETAILS.
- 12. CEC POWER LOCATION UNKNOWN. COORDINATE WITH CEC TO DETERMINE LOCATION. PROTECT IN PLACE AS REQUIRED.
- 13. CONTRACTOR MAY ENCOUNTER STRADDLE THRUST BLOCK NEAR THIS LOCATION.
- 14. CONTRACTOR MAY ENCOUNTER THRUST BLOCK AT THIS LOCATION.
- 15. PAVEMENT CORES ON CHLOEE LANE SHOW A 2" EXST ASPHALT SECTION WITH 8" AGGREGATE BASE.



**PROFILE**  
HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 2'

**RECORD DRAWINGS**

Revisions Drawn By O. VEGVARY Date 9/15/15  
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FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR**  
**SITE PLAN AND PROFILE**  
**STATION 512+00 TO 515+50**  
 DESCHUTES COUNTY, OREGON

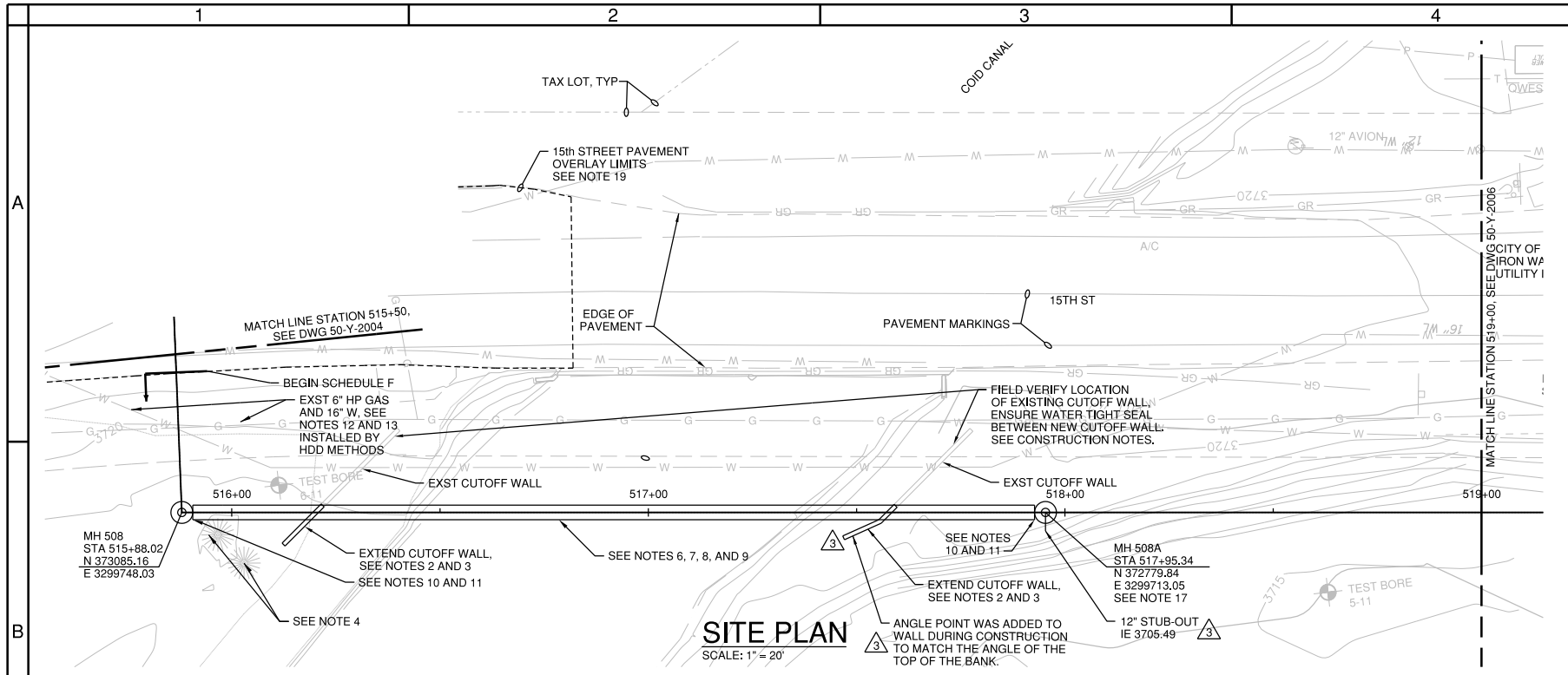


REVISIONS:

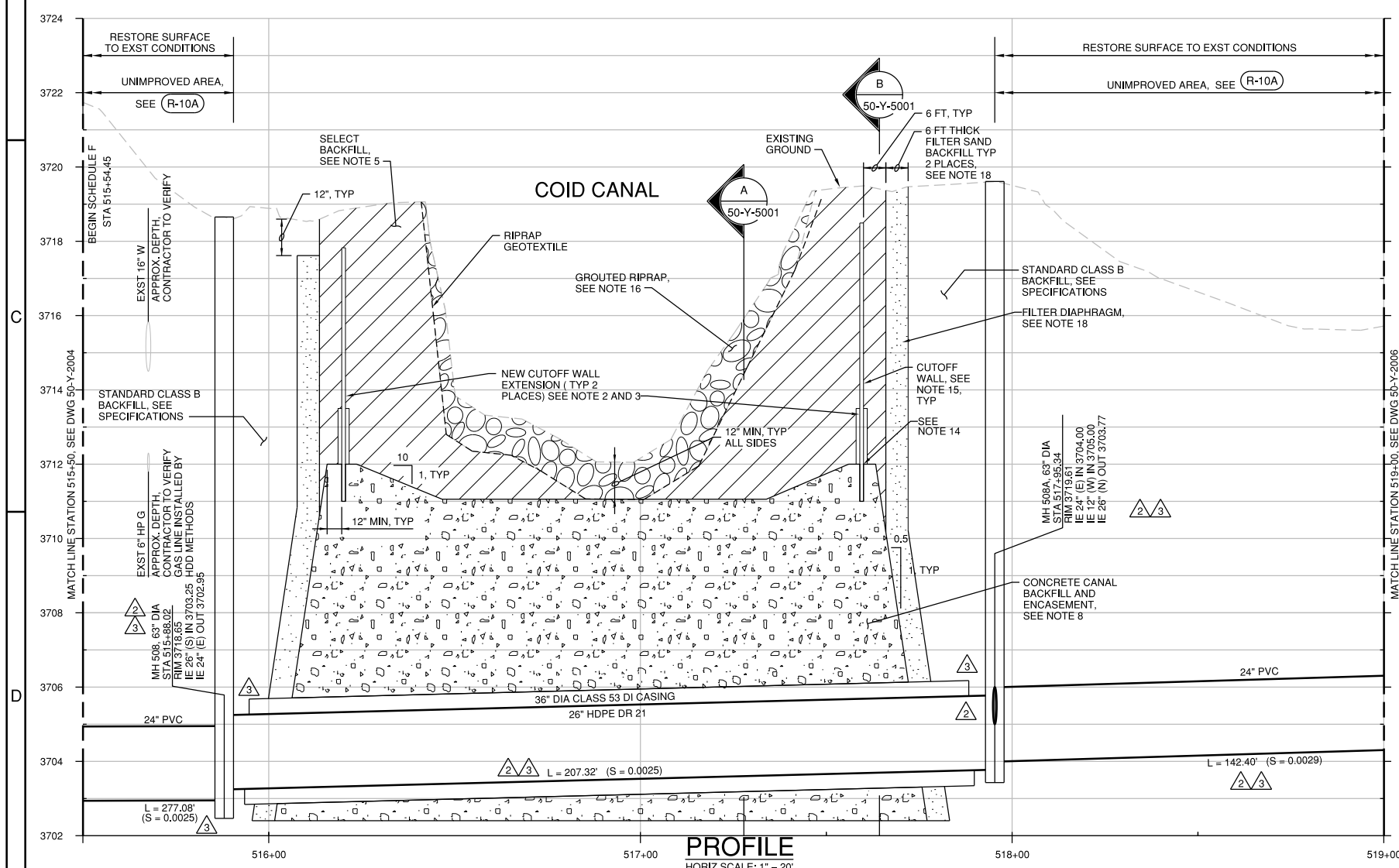

**CH2MHILL**  
 1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
 CORVALLIS, OR 97330

DESIGNED BY: T. LANEY  
 CHECKED BY: B. SIMMONS  
 APPROVED BY: B. FULLER  
 SCALE: AS SHOWN  
 FILE: 50-Y-2004-SW0707  
 DATE: **SEPT 2015**

VERIFY SCALES  
 0 1"  
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING  
 DWG: **50-Y-2004**  
 SHEET: **10**  
 COB # **SW0707**



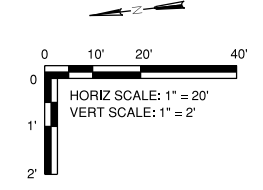
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SCALE: 1" = 20'



**PROFILE**  
HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 2'

**RECORD DRAWINGS**

Revisions Drawn By O. VEGVARY Date 9/15/15  
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**GENERAL NOTES:**

- A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003, 01-G-0004, AND 01-G-0008.
- B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.
- C. ALL 48" MANHOLES ARE CONCRETE, FOR DETAIL SEE (S-4), TYP. MANHOLES GREATER THAN 48" ARE HDPE UNLESS SHOWN OTHERWISE, SEE DETAIL (3305-714), TYP. ALL CONC MH'S SHALL RECEIVE THERMOPLASTIC LINING PER SPECIFICATION SECTION 00470. FOR HDPE DROP MANHOLES, SEE DETAIL (3305-714) SIMILAR, EXCLUSIVE OF 90° BOTTOM BEN, TOP TEE, AND DROP LEG.
- D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

**CONSTRUCTION NOTES:**

- 1. SEE DWG 01-G-0003 FOR GENERAL CONSTRUCTION NOTES.
- 2. EXST CONCRETE CUTOFF WALLS FOR WATER LINE AT NORTH AND SOUTH SIDES OF COID CANAL. DETAIL FOR EXST REINFORCED CONCRETE WALL CONFIGURATION ARE SHOWN IN SECTIONS 1 AND 2 OF TYPICAL (A) LARGE CANAL CROSSINGS AS SET FORTH ON PG. 41 OF "COID DEVELOPMENT HANDBOOK" DATED 2/8/2010.
- 3. ENDS OF EXST CONCRETE CUTOFF WALL FOOTING AND END OF EXST CONC BACKFILL FOUNDATION ADJACENT SEI SHALL BE EXPOSED BY CONTRACTOR TO VERIFY EXACT LOCATION ON BOTH NORTH AND SOUTH SIDES OF CANAL, AS WELL AS VERIFY EXACT ALIGNMENT FOR SEI TRENCH EXCAVATION AND INSTALLATION ACROSS COID. SEI INSTALLATION, CUTOFF WALL, WALL FOOTING, WALL FOUNDATION AND CANAL BACKFILL SHALL BE CONSTRUCTED AS SHOWN ON THIS SHEET AND (A), (B), AND (4) 50-Y-5001 (3) 50-Y-5001 (5) 50-Y-5001
- AND IN GENERAL ACCORDANCE WITH COID DEVELOPMENT HANDBOOK LARGE CANAL CROSSING DETAILS, WALL AND FOOTING DIMENSIONS/REINFORCING SHALL BE AS SHOWN ON (3) 50-Y-5001
- CUTOFF WALL EXTENSION SHALL BE CONNECTED TO EXST CUTOFF WALL BY ADHESIVE DOWELS AS SHOWN ON DETAIL (5) 50-Y-5001
- TERMINATE A MIN. OF 8.5 FT PAST SEI CENTERLINE AS MEASURED ALONG EXST WALL ALIGNMENT. WALL EXTENSION SHALL BE CAST-IN-PLACE CONC.
- 4. CONTRACTOR TO REMOVE EXST TREES, COORDINATE PERMITS AND REMOVAL TO BE COMPLETED AT THE SAME TIME AS TREE REMOVAL AT STA 541+50 AND 542+50.
- 5. SELECT BACKFILL SHALL CONSIST OF SANDY SILT OR SILTY SAND WITH A MINIMUM OF 25 PERCENT FINES WITH A MAXIMUM PLASTICITY INDEX OF 20. MATERIAL SHALL BE WELL GRADED FROM COARSE TO FINE. COMPACT AS SHOWN WITH BENCHED SLOPES TO 95% RELATIVE COMPACTION AS DETERMINED BY ASTM D1557 SUBMITTAL REQUIRED.
- 6. PIPE SHALL BE INSTALLED IN CASING BETWEEN MH 508 AND MH 508A. CONSTRUCTION IS TO BE PERFORMED WHEN COID CANAL IS DRY. SEE SECTIONS 00150, 330502, AND 330501.
- 7. INSTALL CARRIER PIPE IN CASING PER DETAIL (3305-760), MAXIMUM SPACE ALLOWED BETWEEN OUTSIDE EDGE OF MH WALL AND END OF CASING SHALL BE 5 FT.
- 8. BACKFILL TRENCH AND AREA AROUND AND BETWEEN MH508 AND MH 508A WITH 2000 PSI CONC BACKFILL PER COID DETAIL, AND SAND BACKFILL AS SHOWN. SEE SECTION 00442. CASING BACKFILL ACROSS CANAL SHALL BE IN ACCORDANCE WITH COID HANDBOOK SECTIONS PER NOTE 2 ABOVE
- 9. PROVIDE SPACERS FOR PIPE IN CASING. SEE SECTION 330502 FOR INSTALLATION OF CARRIER PIPE IN STEEL CASING.
- 10. INSTALL WATER TIGHT END SEALS ON EACH END OF CASING.
- 11. INSTALL 2 ANODES (EACH SIDE OF CASING), SEE (2642-869) AND (2642-910), PROVIDE 2" OF SAND BACKFILL IN ALL DIRECTIONS OF ANODES. ANODES SHALL BE LOCATED 2 FT FROM EACH END OF CASING.
- 12. PER SPECIFICATION SECTION 00498.20 UTILITY FIELD EXPLORATIONS, LOCATE DEPTH OF EXST 6" HP GAS AND 16" WATER A MIN. 20 DAYS PRIOR TO TRENCH EXCAVATION ACROSS COID CANAL. DETERMINE TOP OF EXST PIPES ELEV AT THE INTERSECTION OF SEI AND PROVIDE TO ENGINEER.
- 13. EXCAVATE TO TOP OF EXISTING WATER MAIN PIPE WITHIN TRENCH LIMITS OF SEI SEWER. FOLLOW FIELD EXPLORATION REQUIREMENTS ACCORDING TO SPECIFICATION SECTION 01140.20 FIELD EXPLORATION. RESTRAIN ANY JOINTS FOUND WITH MEGALUG SERIES 1100HD AND 1100SD JOINT RESTRAINTS. FULLY SUPPORT AND PROTECT EXISTING WATER LINE DURING SEI CONSTRUCTION.
- 14. FOOTING FOR CUTOFF WALL EXTENSION SHALL CONNECT TO EXST CUTOFF WALL PER NOTE 3 ABOVE. IF FOOTING EXTENSION REQUIRES VERTICAL TRANSITION TO ACHIEVE FOOTING FOUNDATION ON CLEAN ROCK PER COID DETAIL, FOOTING TRANSITION SHALL BE FORMED AT NO GREATER THAN 2:1 HORIZ TO VERTICAL SLOPE. FOOTING TRANSITION SECTION SHALL BE FOUND ON CONC BACKFILL POURED AGAINST CLEAN ROCK. FOOTING POURED ON TOP OF ROCK OUTSIDE LIMITS OF TRENCH, SEE DETAIL (3) 50-Y-5001
- 15. CUTOFF WALLS TO BE BACKFILLED UNIFORMLY ON EACH SIDE TO PREVENT UNEVEN LOADING
- 16. GROUTED RIPRAP SHALL CONSIST OF CLASS 100 RIPRAP AS SPECIFIED IN SECTION 00390.11 AND 00390.12 OF THE STANDARD SPECIFICATIONS. INSTALL AND CONSTRUCT IN ACCORDANCE WITH 00390.44 (d) GROUTED RIPRAP.
- 17. INSTALL CAP ON 12" HDPE STUB OUT TO WEST SIMILAR TO
- 18. FILTER SAND IN ACCORDANCE WITH ODOT SPEC SECTION 02690.30 - FINE AGGREGATE.
- 19. LIMITS OF PAVEMENT OVERLAY ARE SHOWN. PROVIDE 2" MINIMUM OVERLAY THICKNESS. MHMAC SHALL BE LEVEL 3, 1/2" DENSE. SEE DWG 50-Y-5006 FOR TAPER DETAILS.

FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR**  
**SITE PLAN AND PROFILE**  
 STATION 515+50 TO 519+00  
 DESCHUTES COUNTY, OREGON



REVISIONS:

3	RECORD DWG 2015
2	WCD 1
1	ADDENDUM 1

**CH2MHILL**  
 1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
 CORVALLIS, OR 97330

DESIGNED BY: T. LANEY  
 CHECKED BY: B. SIMMONS  
 APPROVED BY: B. FULLER  
 SCALE: AS SHOWN  
 FILE: 50-Y-2005-SW0707  
 DATE: SEPT 2015

VERIFY SCALES  
 0 1"  
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING  
 DWG: 50-Y-2005  
 SHEET: 11  
 COB # SW0707



FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**RECORD DRAWINGS**

Revisions Drawn By Q. VEGVARY Date 9/15/15

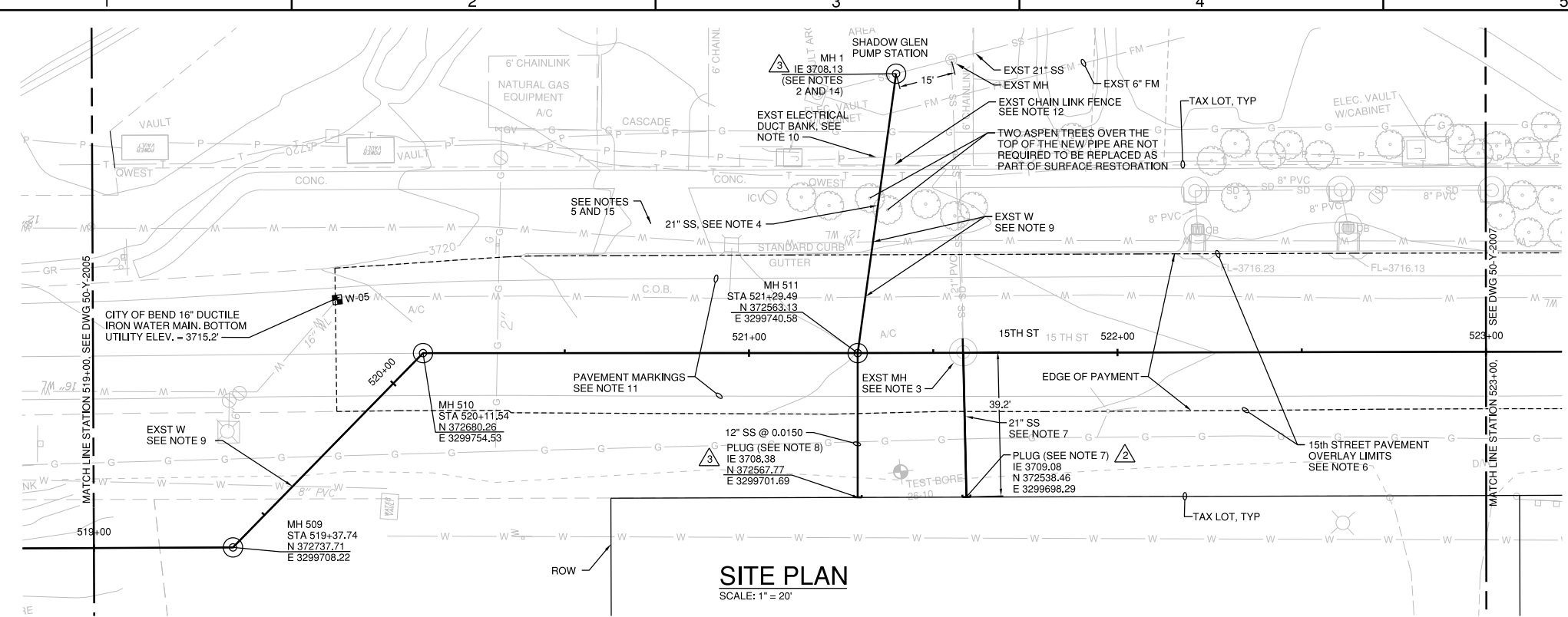
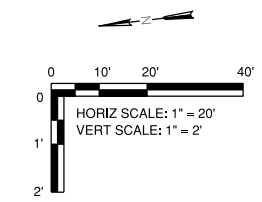
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

**GENERAL NOTES:**

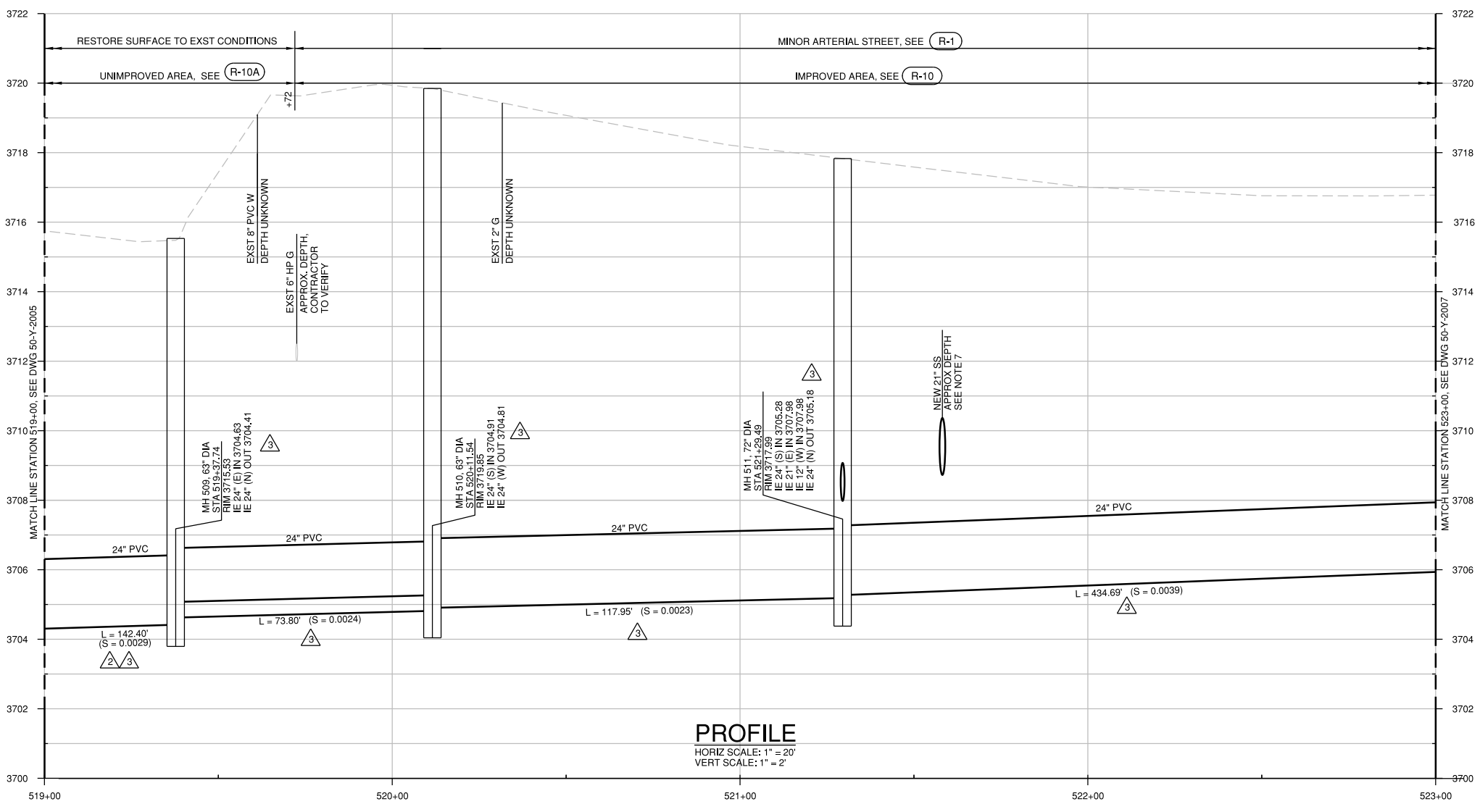
- A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003, 01-G-0004, AND 01-G-0008.
- B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.
- C. ALL 48" MANHOLES ARE CONCRETE, FOR DETAIL SEE (S-4) TYP. MANHOLES GREATER THAN 48" ARE HDPE UNLESS SHOWN OTHERWISE, SEE DETAIL (3305-714) TYP. ALL CONC MH'S SHALL RECEIVE THERMOPLASTIC LINING PER SPECIFICATION SECTION 00470. FOR HDPE DROP MANHOLES, SEE DETAIL (3305-714) SIMILAR, EXCLUSIVE OF 90° BOTTOM BEN, TOP TEE, AND DROP LEG.
- D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

**CONSTRUCTION NOTES:**

- 1. SEE DWG 01-G-0003 FOR GENERAL CONSTRUCTION NOTES.
- 2. INSTALL NEW 72" CONC MH 1 OVER EXST SHADOW GLEN PUMP STATION 21" GRAVITY SEWER AT LOCATION SHOWN (APPROX. 15' OFF EXST MH) PER SPEC SECTION 00490, MAINTAIN OPERATION OF EXST GRAVITY SEWER AT ALL TIMES NEW MH INVERT OUT TO SEI TO MATCH EXST GRAVITY SEWER IE OF APPROXIMATELY 3708.5. CONTRACTOR TO VERIFY EXST IE. OUT AT THIS LOCATION PRIOR TO NEW MH 1 AND LATERAL INSTALLATION OF APPROX. 80'. CONTRACTOR SHALL NOT BREAK OPEN EXST 21" SEWER.
- 3. REMOVE EXST CONC MH TO ENABLE INSTALLATION OF SEI. EXST CONC MH IS NOT CURRENTLY ACTIVE.
- 4. LANDSCAPING SHALL BE PRESERVED OR REPLACED IF DAMAGED PER SECTION 01040. RESTORE TO MATCH EXST CONDITIONS.
- 5. PROVIDE DRIVEWAY ACCESS TO COB AT ALL TIMES FOR COB VECTOR TRUCK.
- 6. LIMITS OF PAVEMENT OVERLAY ARE SHOWN. PROVIDE 2" MINIMUM OVERLAY THICKNESS. MHMAC SHALL BE LEVEL 3, 1/2" DENSE. SEE DWG 50-Y-5006 FOR TAPER DETAILS.
- 7. INSTALL NEW 21" PVC SS AS SHOWN. CONTRACTOR TO VERIFY EXST IE AT THIS LOCATION PRIOR TO 21" SS INSTALLATION. AFTER REMOVING EXST MH, CONNECT NEW 21" SS TO EXST 21" SS AND INSTALL NEW 21" SS TO THE WEST. MATCH EXISTING 21" SS SLOPE. PLUG END OF 21" SS PER DETAIL (3305-702).
- 8. CONNECT TO MH 511 WITH 12" PVC SS. EXTEND APPROXIMATELY 40' WEST. PLUG END OF 12" SS PER DETAIL (3305-702).
- 9. EXCAVATE TO TOP OF EXISTING WATER MAIN PIPE WITHIN TRENCH LIMITS OF SEI SEWER. FOLLOW UTILITY FIELD EXPLORATION REQUIREMENTS ACCORDING TO SPECIFICATION SECTION 00498.20. RESTRAIN ANY JOINTS FOUND WITH MEGALUG SERIES 1100HD AND 1100SD JOINT RESTRAINTS. FULLY SUPPORT AND PROTECT EXISTING WATERLINE DURING SEI CONSTRUCTION.
- 10. PER SPECIFICATION SECTION 00498.20 UTILITY FIELD EXPLORATIONS, LOCATE EXISTING DUCT BANK TO DETERMINE TOP AND BOTTOM ELEVATION AND LATERAL EXTENT OF DUCT BANK WITHIN 60 DAYS OF NOTICE TO PROCEED. SUBMIT INFORMATION TO CITY AND ALLOW MINIMUM 30 DAYS FOR ENGINEER REVIEW PRIOR TO INSTALLING SEWER UNDER DUCT BANK.
- 11. CONTRACTOR SHALL REPLACE PAVEMENT MARKINGS TO MATCH PRECONSTRUCTION MARKINGS.
- 12. CONTRACTOR SHALL RECONSTRUCT 6 FT CHAINLINK FENCE TO MATCH EXISTING CONDITIONS.
- 13. PAVEMENT CORES ON 15th STREET SHOW AN ASPHALT THICKNESS BETWEEN 3.5" AND 5", AND A 6" CINDER ROAD BASE.
- 14. PER SPECIFICATION SECTION 00498.20 UTILITY FIELD EXPLORATIONS, LOCATE INERT OF EXISTING 21" PIPE AT CONNECTION POINT. SUBMIT INFORMATION TO CITY AND ALLOW MIN 30 DAYS FOR ENGINEER TO REVIEW PRIOR TO CONSTRUCTION IN THIS AREA.
- 15. DEMOLISH SECTION OF EXISTING DRIVEWAY APRON TO FIRST EXPANSION JOINT APPROX. 8 FEET BEHIND EXST CURB. REMOVE AND REPLACE EXST CURB AND DRIVEWAY APRON SIMILAR TO DETAIL (R-5A) SUCH THAT FACE OF CURB AT THE DRIVEWAY ENTRANCE AND 2" PAVEMENT OVERLAY ARE AT THE SAME ELEVATION. MATCH NEW CURB INTO EXST CURB TO THE NORTH AND SOUTH. MATCH NEW DRIVEWAY APRON INTO EXST DRIVEWAY APRON. EXPANSION JOINTS AND PLACEMENT IN NEW DRIVEWAY APRON SHALL MATCH EXISTING. NEW SECTION OF DRIVEWAY APRON SHALL BE REPLACED WITH 6" THICK REINFORCED CONC USING ODOT 3000 PSI OR BETTER COMMERCIAL GRADE CONC AND 6x6 SIZE 6/6 GAUGE WELDED WIRE MESH. PROVIDE LIGHT BROOM FINISH.
- 16. CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION TO KEEP ALL EXISTING IRRIGATION IN SERVICE DURING CONSTRUCTION ON EAST SIDE OF SE 15th STREET.



**SITE PLAN**  
SCALE: 1" = 20'



**PROFILE**  
HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 2'

**BEND SE INTERCEPTOR**  
**SITE PLAN AND PROFILE**  
**STATION 519+00 TO 523+00**  
DESCHUTES COUNTY, OREGON



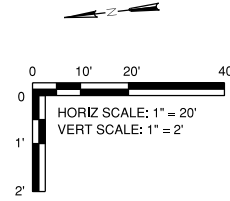
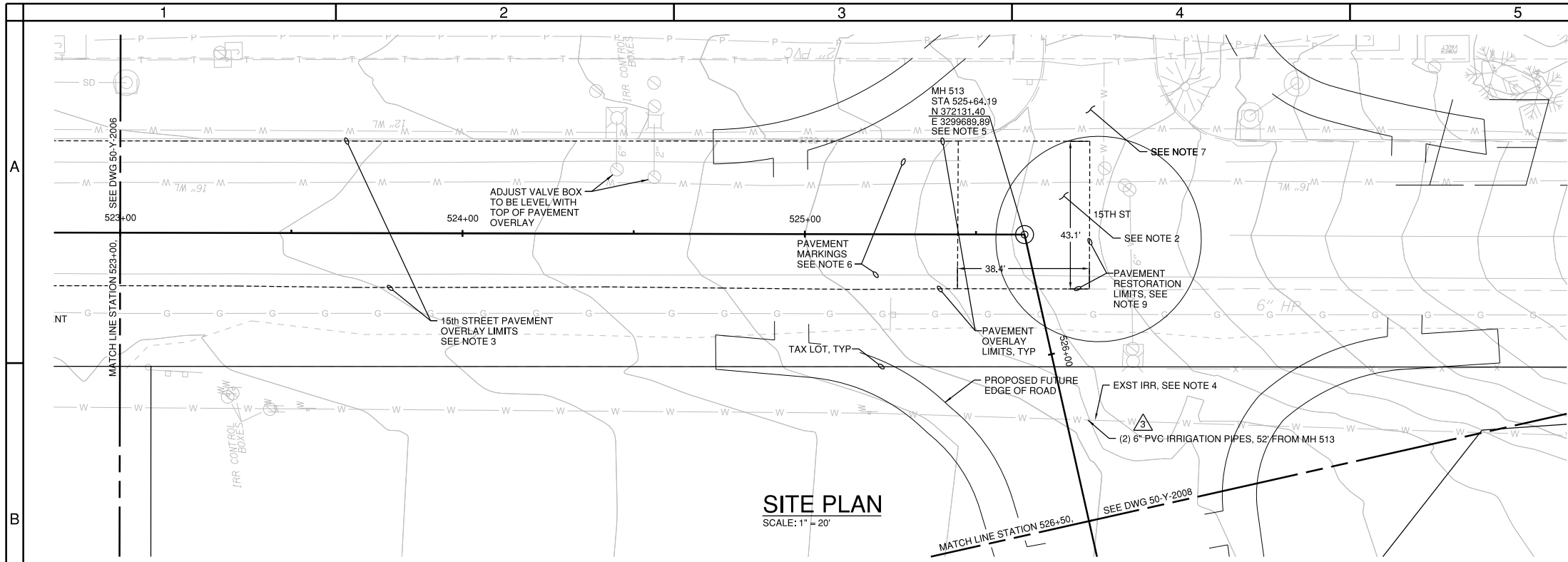
REVISIONS:

1	RECORD DWG 2015
2	WCD 1
3	ADDENDUM 2

**CH2MHILL**  
1000 NE CIRCLE BLVD,  
BLDG 10, SUITE 10350  
CORVALLIS, OR 97330

DESIGNED BY: T. LANEY  
CHECKED BY: B. SIMMONS  
APPROVED BY: B. FULLER  
SCALE: AS SHOWN  
FILE: 50-Y-2006-SW0707  
DATE: SEPT 2015

VERIFY SCALES  
0 1"  
BAR EQUALS ONE INCH ON ORIGINAL DRAWING  
DWG: 50-Y-2006  
SHEET: 12  
COB # SW0707

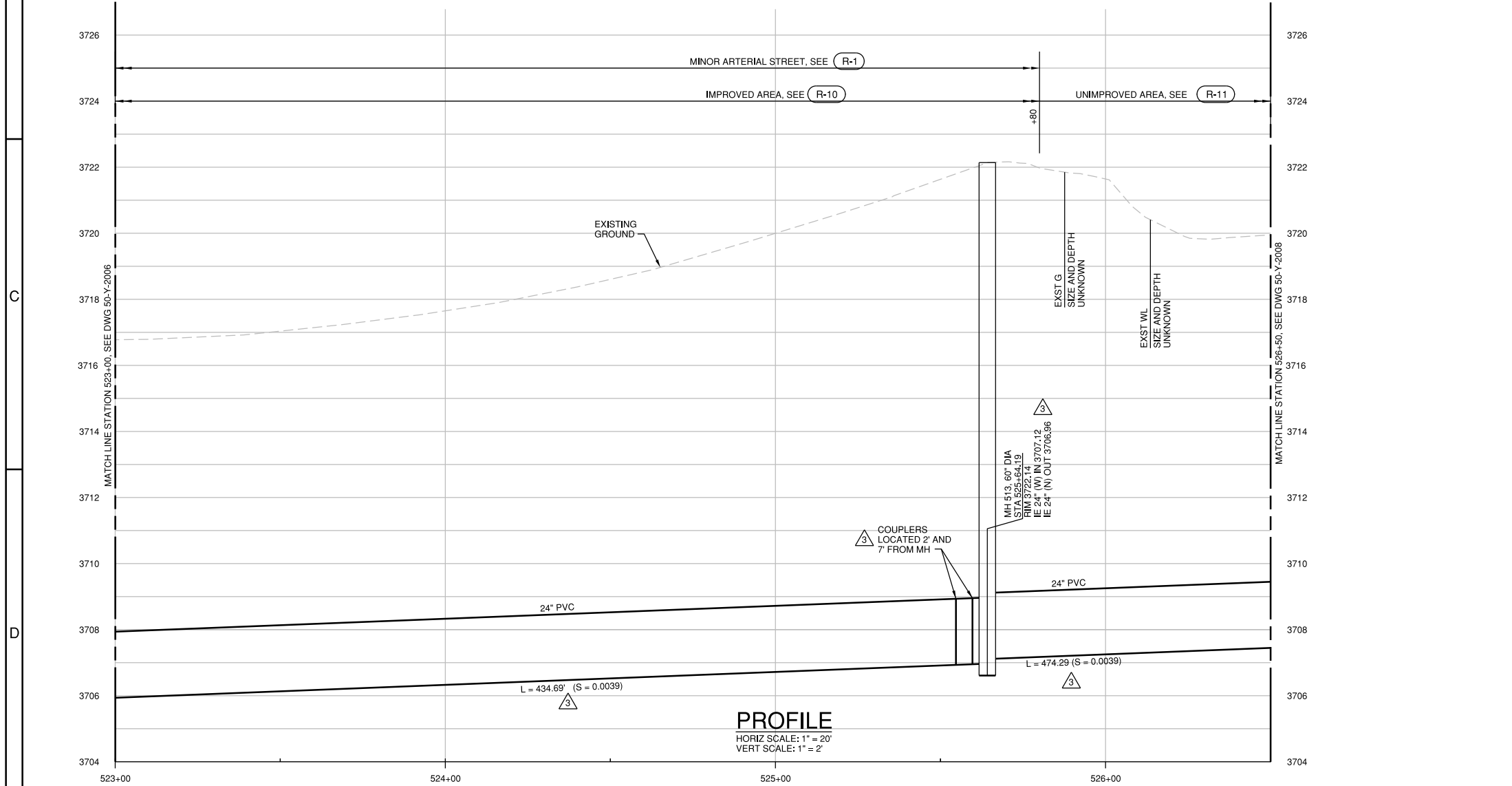


**GENERAL NOTES:**

- A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003, 01-G-0004, AND 01-G-0008.
- B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS AND SPECIFICATION SECTION 00220.
- C. ALL 48" MANHOLES ARE CONCRETE. FOR DETAIL SEE (S-4) TYP. MANHOLES GREATER THAN 48" ARE HDPE UNLESS SHOWN OTHERWISE. SEE DETAIL (3305-714) TYP. ALL CONC MHS SHALL RECEIVE THERMOPLASTIC LINING PER SPECIFICATION SECTION 00470. FOR HDPE DROP MANHOLES, SEE DETAIL (3305-714) SIMILAR, EXCLUSIVE OF 90° BOTTOM BEN, TOP TEE, AND DROP LEG.
- D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

**CONSTRUCTION NOTES:**

1. SEE DWG 01-G-0003 FOR GENERAL CONSTRUCTION NOTES.
2. MAPPING QUALITY LEVEL QL-D. EXISTING IRRIGATION PIPES NOT SHOWN. PIPES CROSS 15th STREET. IF EXPOSED DURING CONSTRUCTION, CUT AND CAP IRRIGATION LINES AT EDGE OF TRENCH.
3. LIMITS OF PAVEMENT OVERLAY ARE SHOWN. PROVIDE 2" MINIMUM OVERLAY THICKNESS. MHMAC SHALL BE LEVEL 3, 1/2" DENSE. SEE DWG 50-Y-5006 FOR TAPER DETAILS.
4. EXST SHALLOW COVER IRRIGATION PIPE AND DOMESTIC WATERLINE ARE LOCATED IN SAME TRENCH. IRRIGATION LINE MUST REMAIN IN SERVICE BETWEEN APRIL 15 THROUGH OCTOBER 15. PROTECT PIPES DURING CONSTRUCTION. CONTRACTOR TO GIVE CITY 5 DAYS ADVANCED NOTICE. CITY WILL IDENTIFY WATER VS. IRRIGATION LINE. REPLACE MN 60" WHERE REMOVED WITH AWWA C900 AND MATCH SIZE. PROVIDE COUPLING FOR RECONNECT. RESTRAIN AS NECESSARY. REPLACE OTHER PIPE DAMAGED FROM VEHICULAR TRAFFIC BY MARCH 15. ASSUME 8" PIPE SIZE.
5. MH 513 IS 60" CONC MANHOLE. SEE (S-4).
6. CONTRACTOR SHALL REPLACE PAVEMENT MARKINGS TO MATCH PRECONSTRUCTION MARKINGS.
7. ACCESS IN AND OUT OF GOLDEN GATE PLACE SHALL BE MAINTAINED AT ALL TIMES.
8. PAVEMENT CORES ON 15th STREET SHOW AN ASPHALT THICKNESS BETWEEN 3.5" AND 5" AND A 6" CINDER ROAD BASE.
9. PAVEMENT RESTORATION LIMITS. CONTRACTOR SHALL SAW CUT TO DIMENSIONS SHOWN, COLD PLANE AREA, AND INLAY WITH 2" DEPTH OF LEVEL 3, 1/2" DENSE MHMAC. FINAL GRADE AND ELEVATIONS SHALL MATCH ORIGINAL AS SURVEYED PRIOR TO CONSTRUCTION.
10. PROPOSED FUTURE EDGE OF ROAD IS PROVIDED FOR CONTRACTOR'S INFORMATION ONLY.
11. CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION TO KEEP ALL EXISTING IRRIGATION IN SERVICE DURING CONSTRUCTION ON EAST SIDE OF SE 15th STREET.



**RECORD DRAWINGS**

Revisions Drawn By O. VEGVARY Date 9/15/15  
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR**  
**SITE PLAN AND PROFILE**  
**STATION 523+00 TO 526+50**  
 DESCHUTES COUNTY, OREGON



REVISIONS:

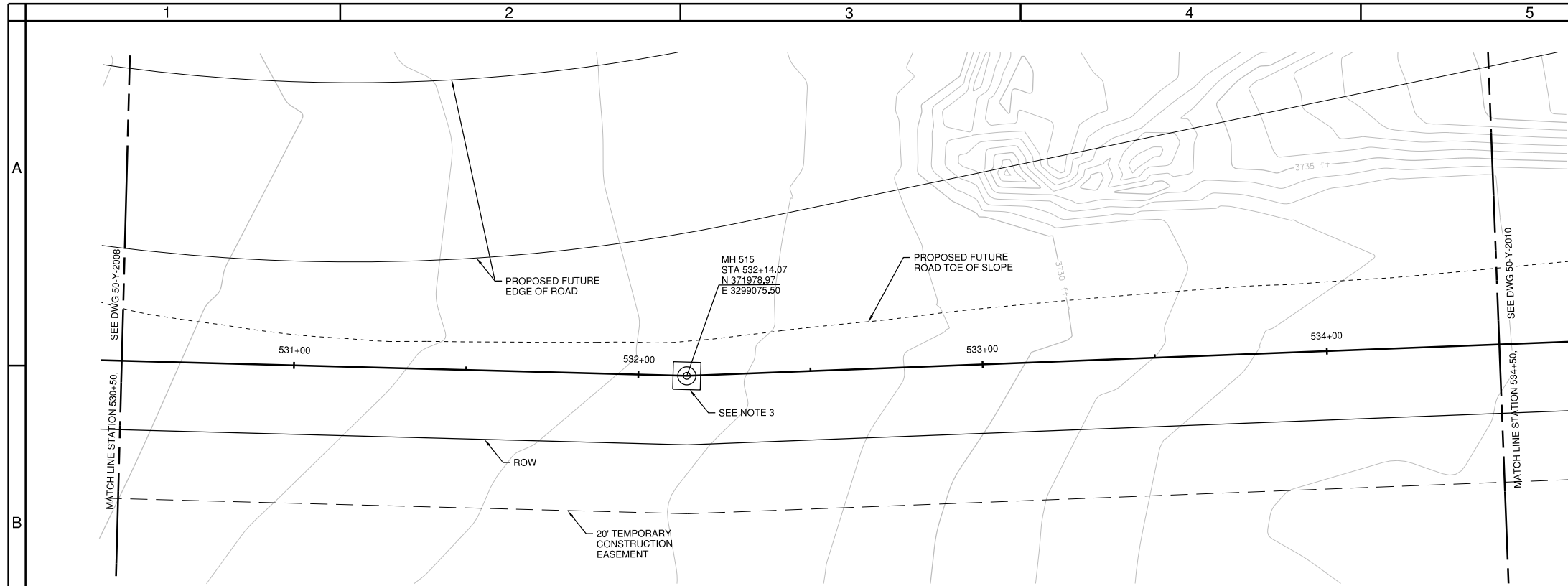
3	RECORD DWG 2015
2	ADDENDUM 2
1	ADDENDUM 1

**CH2MHILL**  
 1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
 CORVALLIS, OR 97330

DESIGNED BY: T. LANEY  
 CHECKED BY: B. SIMMONS  
 APPROVED BY: B. FULLER  
 SCALE: AS SHOWN  
 FILE: 50-Y-2007-SW0707  
 DATE: SEPT 2015

VERIFY SCALES  
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 BAR EQUALS ONE INCH ON ORIGINAL DRAWING  
 DWG: 50-Y-2007  
 SHEET: 13  
 COB # SW0707





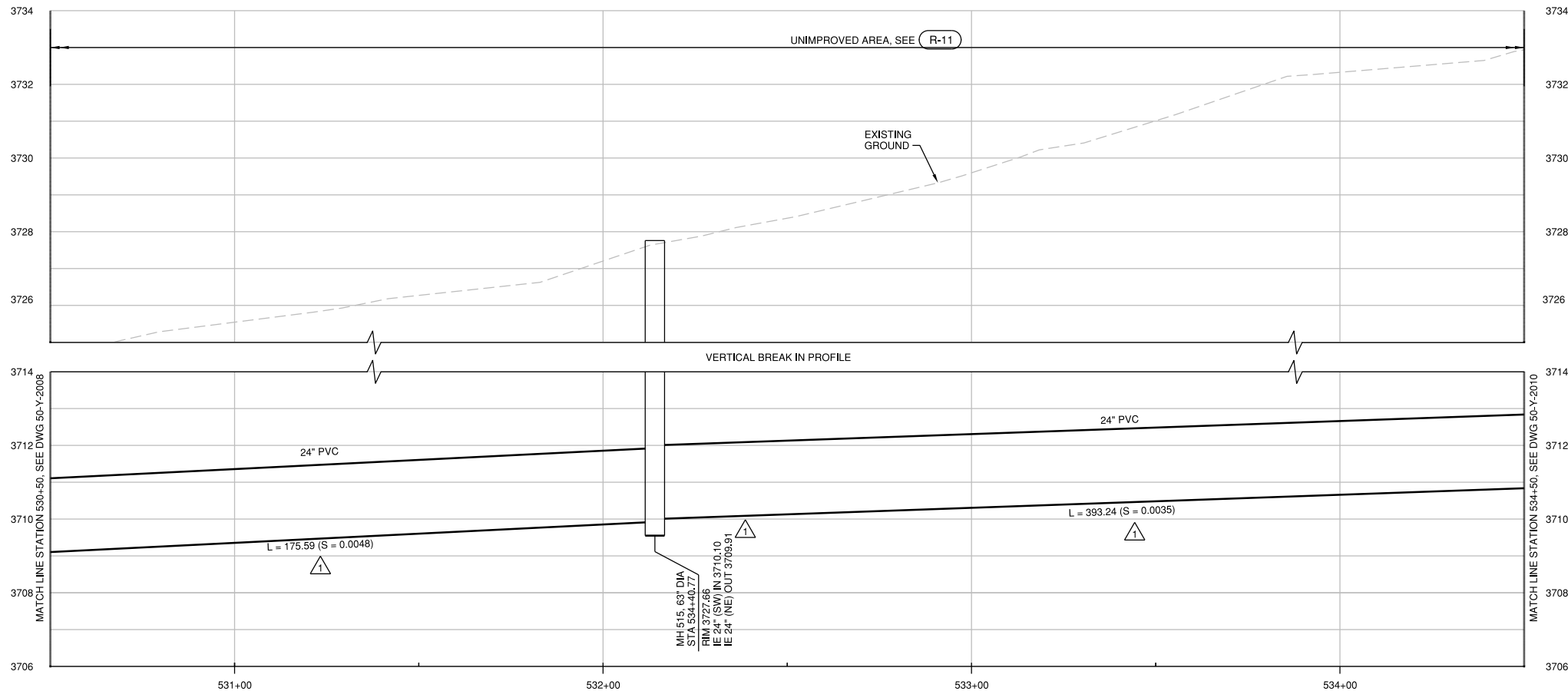
**SITE PLAN**  
SCALE: 1" = 20'

**GENERAL NOTES:**

- A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003, 01-G-0004, AND 01-G-0008.
- B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS AND SPECIFICATION SECTION 00220.
- C. ALL 48" MANHOLES ARE CONCRETE, FOR DETAIL SEE (S-4), TYP. MANHOLES GREATER THAN 48" ARE HDPE UNLESS SHOWN OTHERWISE, SEE DETAIL (3305-714), TYP. ALL CONC MH'S SHALL RECEIVE THERMOPLASTIC LINING PER SPECIFICATION SECTION 00470. FOR HDPE DROP MANHOLES, SEE DETAIL (3305-714) SIMILAR, EXCLUSIVE OF 90° BOTTOM BEN, TOP TEE, AND DROP LEG.
- D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

**CONSTRUCTION NOTES:**

- 1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
- 2. ALL WORK AND STORAGE OF MATERIALS AND EQUIPMENT SHALL BE WITHIN THE RIGHT-OF-WAY AND TEMPORARY EASEMENTS AS SHOWN ON THE PLANS.
- 3. MANHOLE PER (3305-714), DO NOT INSTALL CONCRETE BEARING PAD. INSTALL SURFACE 8'x8' CONCRETE PAD IN NONPAVED AREA SIMILAR TO (S-4).
- 4. WORK WITHIN CONSTRUCTION EASEMENT ON PRIVATE PROPERTY.



**PROFILE**  
HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 2'

**RECORD DRAWINGS**

Revisions Drawn By O. VEGVARY Date 9/15/15  
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR**  
**SITE PLAN AND PROFILE**  
**STATION 530+50 TO 534+50**  
 DESCHUTES COUNTY, OREGON



REVISIONS:	RECORD DWG 2015
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**CH2MHILL**  
 1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
 CORVALLIS, OR 97330

DESIGNED BY: T. LANEY  
 CHECKED BY: B. SIMMONS  
 APPROVED BY: B. FULLER  
 SCALE: AS SHOWN  
 FILE: 50-Y-2009 SW0707  
 DATE: SEPT 2015

VERIFY SCALES  
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 BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: **50-Y-2009**

SHEET: **15**

COB # **SW0707**



FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR**  
**SITE PLAN AND PROFILE**  
**STATION 538+00 TO 542+00**  
 DESCHUTES COUNTY, OREGON



REVISIONS:  
 1. RECORD DWG 2015  
 2. WCD 003  
 3. ADDENDUM 2  
 4. ADDENDUM 1

**CH2MHILL**  
 1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
 CORVALLIS, OR 97330

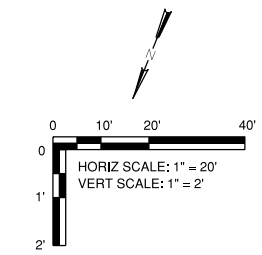
DESIGNED BY: T. LANEY  
 CHECKED BY: B. SIMMONS  
 APPROVED BY: B. FULLER  
 SCALE: AS SHOWN  
 FILE: 50-Y-2011-SW0707  
 DATE: SEPT 2015

VERIFY SCALES  
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 BAR EQUALS ONE INCH  
 ON ORIGINAL DRAWING

DWG: **50-Y-2011**

SHEET: **17**

COB # **SW0707**



**GENERAL NOTES:**

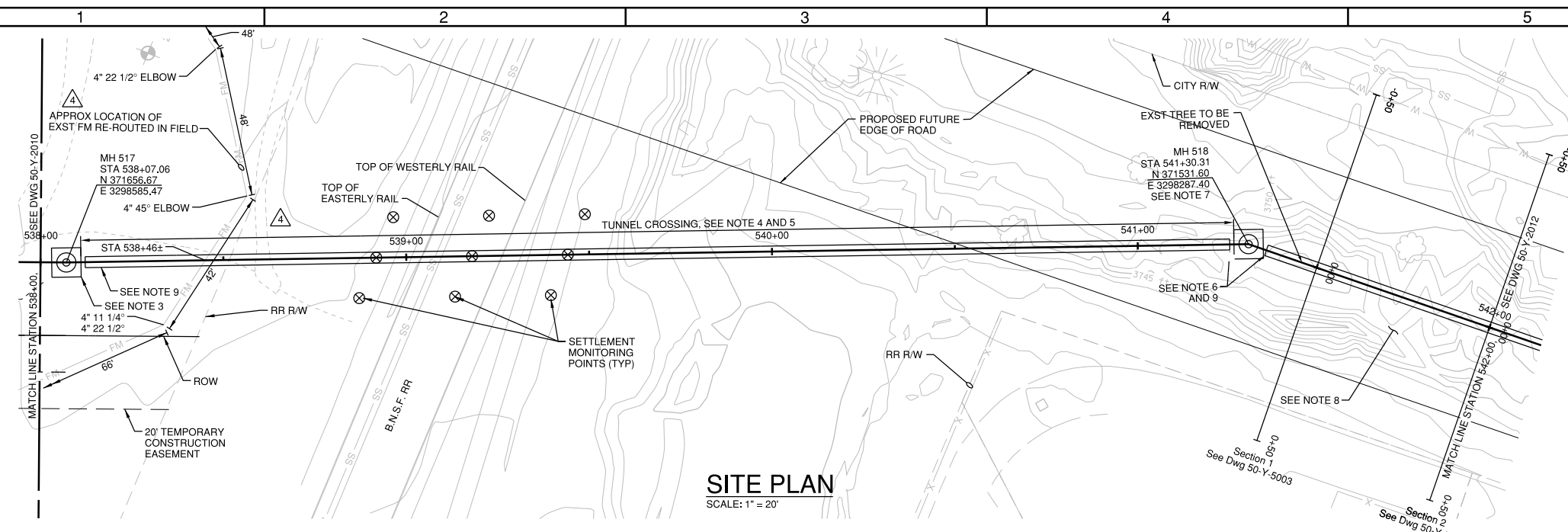
- A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003, 01-G-0004, AND 01-G-0008.
- B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS AND SPECIFICATION SECTION 00220.
- C. ALL 48" MANHOLES ARE CONCRETE, FOR DETAIL SEE (S-4), TYP. MANHOLES GREATER THAN 48" ARE HDPE UNLESS SHOWN OTHERWISE, SEE DETAIL (3305-714), TYP. ALL CONC MHS SHALL RECEIVE THERMOPLASTIC LINING PER SPECIFICATION SECTION 00470. FOR HDPE DROP MANHOLES, SEE DETAIL (3305-714) SIMILAR, EXCLUSIVE OF 90° BOTTOM BEN, TOP TEE, AND DROP LEG.
- D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

**CONSTRUCTION NOTES:**

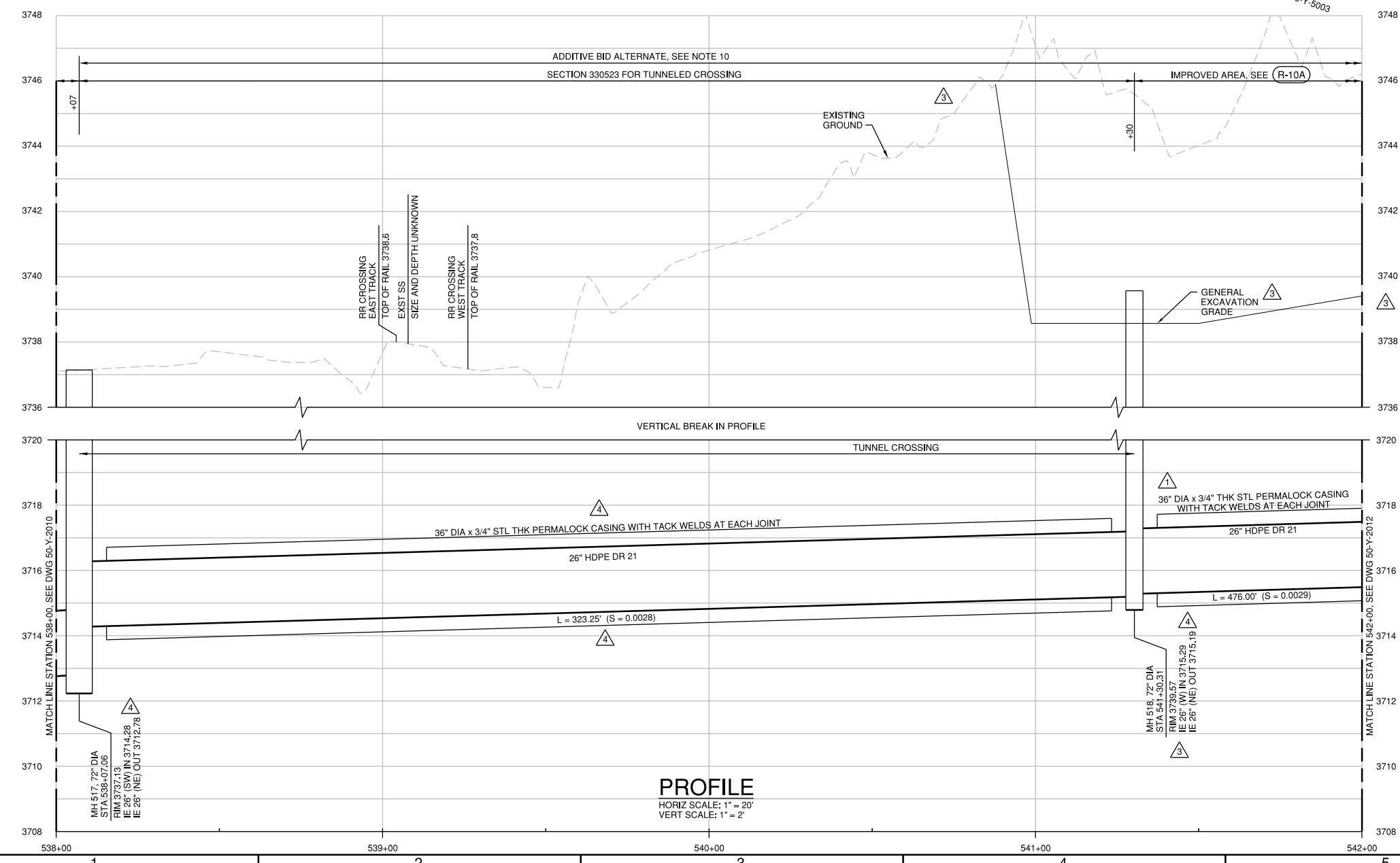
- 1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
- 2. ALL WORK AND STORAGE OF MATERIALS AND EQUIPMENT SHALL BE WITHIN THE RIGHT-OF-WAY AND TEMPORARY EASEMENTS AS SHOWN ON THE PLANS.
- 3. SEE (2) AND (S-5), MH 517 IS A 72-INCH CONCRETE MANHOLE, 50-Y-5001.
- 4. PIPE IN CASING BETWEEN MH517 AND MH518 SHALL BE INSTALLED WITH TUNNELING METHODS, CONSTRUCTION IS TO BE PERFORMED WITHIN BNSF PERMIT CONDITIONS. SEE SECTIONS 00150, 31636, 330501, 330502 AND 330523. CONTRACTOR SHALL COORDINATE WITH COB TO ALLOW COB TO TV CASING, PRIOR TO INSTALLATION OF CARRIER PIPE.
- 5. PROVIDE SPACERS FOR PIPE IN CASING. SEE SECTION 330502 FOR INSTALLATION OF CARRIER PIPE IN STEEL CASING.
- 6. CONCRETE MANHOLE, SEE (1) 50-Y-5001.
- 7. PIPE IN CASING BETWEEN MH518 AND MH519 IS NOT REQUIRED TO BE INSTALLED WITH TUNNELING METHODS.
- 8. VARIOUS DEBRIS IS LOCATED WITHIN THE MURPHY ROAD RIGHT-OF-WAY EAST OF BROSTERHOUS ROAD AND WEST OF THE BNSF RAILROAD RIGHT OF WAY. DEBRIS MATERIAL MAY INCLUDE, BUT IS NOT LIMITED TO, CONCRETE BLOCK AND RUBBLE, ASPHALT PAVEMENT AND PAVEMENT DEBRIS, METAL SCRAPS, TREE BRANCHES, ROOT BALLS, CONSTRUCTION DEBRIS, TIRES AND WHEELS, WOOD CHIPS, SOD, AND OTHER SOLID WASTE MATERIAL. WORK AREA APPEARS TO HAVE BEEN USED HISTORICALLY AS AN UNCONTROLLED DUMP SITE. CONTRACTOR SHALL DETERMINE NATURE, REMOVE, AND DISPOSE OF ALL SUCH SOLID WASTE MATERIAL ONLY WITHIN LIMITS OF RIGHT-OF-WAY AND ONLY AS NECESSARY FOR SET INSTALLATION. NO HAZARDOUS WASTE CHARACTERIZATION HAS BEEN PERFORMED. DISCOVERY OF HAZARDOUS MATERIALS IMPACTING CONSTRUCTION SHALL BE CONSIDERED A TYPE 2 DIFFERING SITE CONDITION PER SECTION 00140.40.
- 9. INSTALL 2 ANODES (EACH SIDE OF CASING), SEE (2642-910) AND (2642-889). PROVIDE 2' OF SAND BACKFILL IN ALL DIRECTIONS OF ANODES. ANODES SHALL BE LOCATED 2 FT FROM EACH END OF CASING.
- 10. ALL WORK UPSTREAM OF AND INCLUDING MH517 SHALL BE PER ADDITIVE BID ALTERNATE.

**RECORD DRAWINGS**

Revisions Drawn By O. VEGVARY Date 9/15/15  
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**SITE PLAN**  
 SCALE: 1" = 20'



**PROFILE**  
 HORIZ SCALE: 1" = 20'  
 VERT SCALE: 1" = 2'

FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR**  
**SITE PLAN AND PROFILE**  
**STATION 542+00 TO 546+00**  
 DESCHUTES COUNTY, OREGON

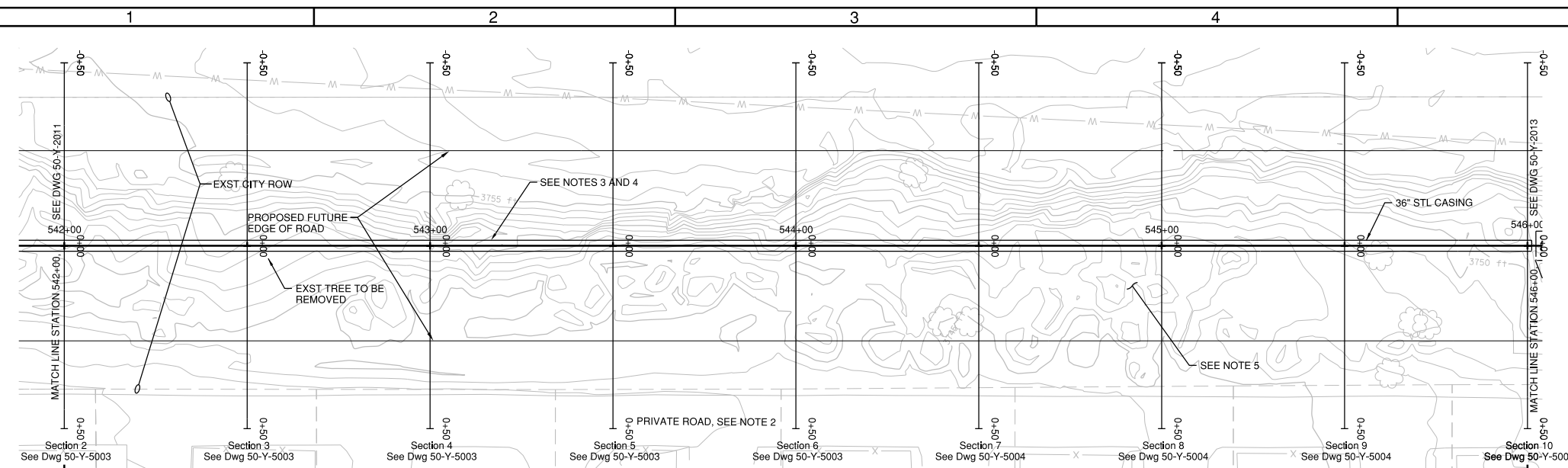
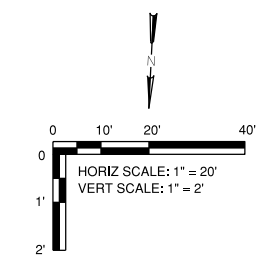


REVISIONS:  
 1. RECORD DWG 2015  
 2. WCD 003  
 3. ADDENDUM 1

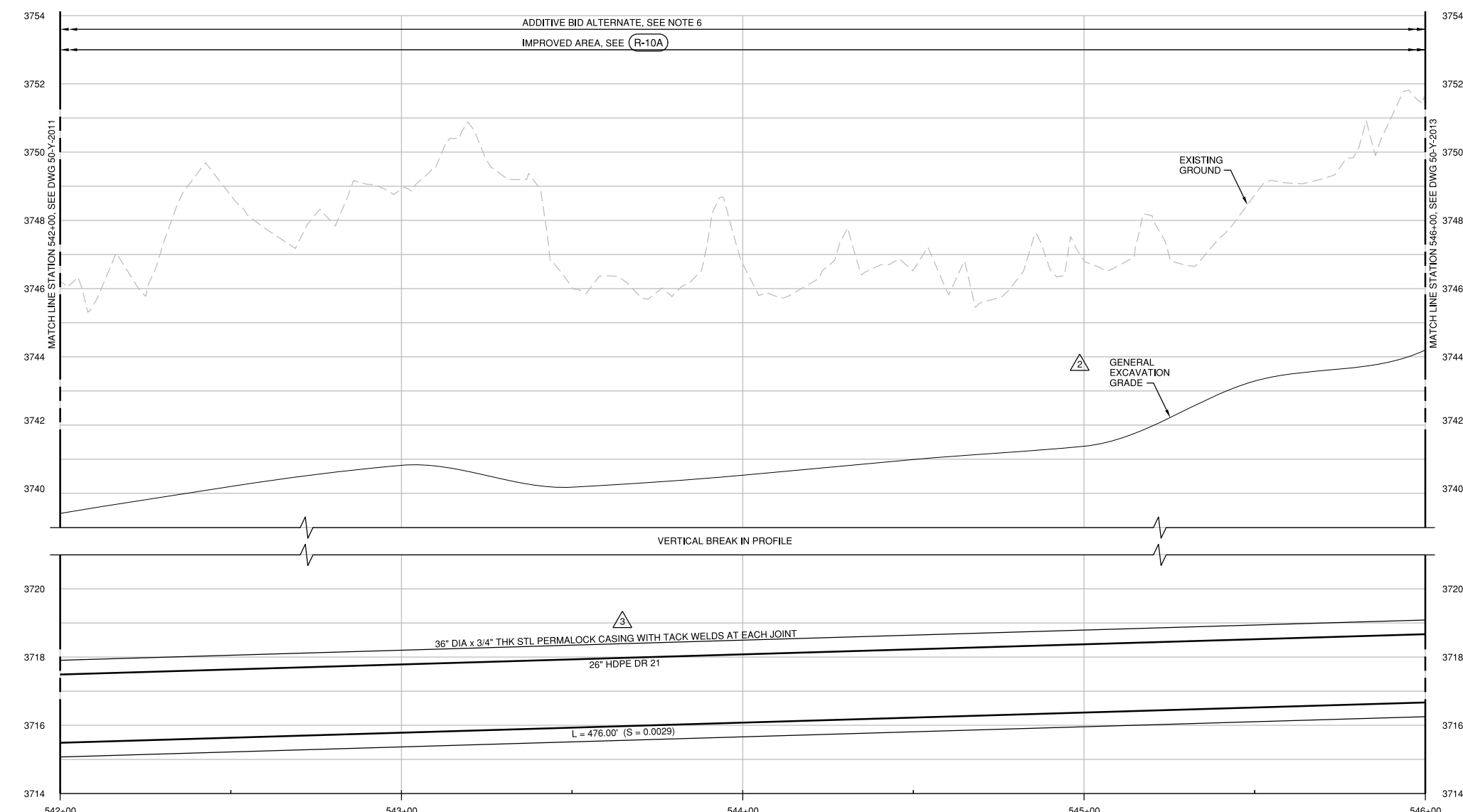
**CH2MHILL**  
 1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
 CORVALLIS, OR 97330

DESIGNED BY: T. LANEY  
 CHECKED BY: B. SIMONDS  
 APPROVED BY: B. FULLER  
 SCALE: AS SHOWN  
 FILE: 50-Y-2012-SW0707  
 DATE: SEPT 2015

VERIFY SCALES  
 0 1"  
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING  
 DWG: 50-Y-2012  
 SHEET: 18  
 COB # SW0707



**SITE PLAN**  
 SCALE: 1" = 20'



**PROFILE**  
 HORIZ SCALE: 1" = 20'  
 VERT SCALE: 1" = 2'

**GENERAL NOTES:**

- A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003, 01-G-0004, AND 01-G-0008.
- B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS AND SPECIFICATION SECTION 00220.
- C. ALL 48" MANHOLES ARE CONCRETE, FOR DETAIL SEE (S-4) TYP. MANHOLES GREATER THAN 48" ARE HDPE UNLESS SHOWN OTHERWISE, SEE DETAIL (3305-714) TYP. ALL CONC MHS SHALL RECEIVE THERMOPLASTIC LINING PER SPECIFICATION SECTION 00470. FOR HDPE DROP MANHOLES, SEE DETAIL (3305-714) SIMILAR, EXCLUSIVE OF 90" BOTTOM BEN, TOP TEE, AND DROP LEG.
- D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

**CONSTRUCTION NOTES:**

- 1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
- 2. CONTRACTOR SHALL NOT USE LARKSPUR VILLAGE PRIVATE ROAD DURING CONSTRUCTION.
- 3. PROVIDE SPACERS FOR PIPING IN CASING. SEE SECTION 330502 FOR INSTALLATION OF CARRIER PIPE IN STEEL CASING.
- 4. PIPE IN CASING BETWEEN MH518 AND MH519 IS NOT REQUIRED TO BE INSTALLED WITH TUNNELING METHODS.
- 5. VARIOUS DEBRIS IS LOCATED WITHIN THE MURPHY ROAD RIGHT-OF-WAY EAST OF BROSTERHOUS ROAD AND WEST OF THE BNSF RAILROAD RIGHT OF WAY. DEBRIS MATERIAL MAY INCLUDE, BUT IS NOT LIMITED TO, CONCRETE BLOCK AND RUBBLE, ASPHALT PAVEMENT AND PAVEMENT DEBRIS, METAL SCRAPS, TREE BRANCHES, ROOT BALLS, CONSTRUCTION DEBRIS, TIRES AND WHEELS, WOOD CHIPS, SOD, AND OTHER SOLID WASTE MATERIAL. WORK AREA APPEARS TO HAVE BEEN USED HISTORICALLY AS AN UNCONTROLLED DUMP SITE. CONTRACTOR SHALL DETERMINE NATURE, REMOVE, AND DISPOSE OF ALL SUCH SOLID WASTE MATERIAL ONLY WITHIN LIMITS OF RIGHT-OF-WAY AND ONLY AS NECESSARY FOR SEI INSTALLATION. NO HAZARDOUS WASTE CHARACTERIZATION HAS BEEN PERFORMED. DISCOVERY OF HAZARDOUS MATERIALS IMPACTING CONSTRUCTION SHALL BE CONSIDERED A TYPE 2 DIFFERING SITE CONDITION PER SECTION 00140.40.
- 6. ALL WORK UPSTREAM AND INCLUDING MH517 SHALL BE PER ADDITIVE BID ALTERNATE.

**RECORD DRAWINGS**

Revisions Drawn By O. VEGVARY Date 9/15/15  
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.



FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR**  
**SITE PLAN AND PROFILE**  
**STATION 546+00 TO 549+50**  
 DESCHUTES COUNTY, OREGON

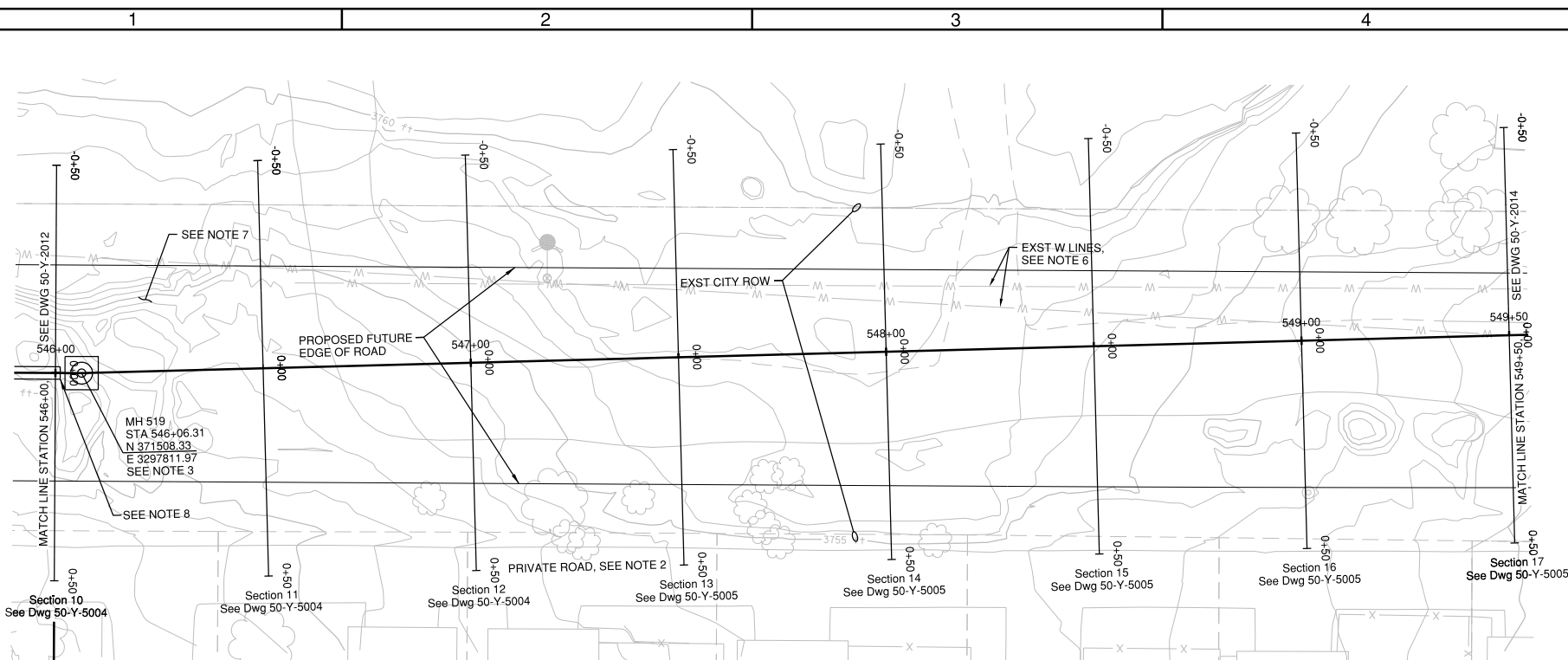
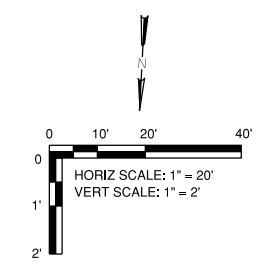


REVISIONS:	3. RECORD DWG 2015
	2. WCD 003
	1. ADDENDUM 1

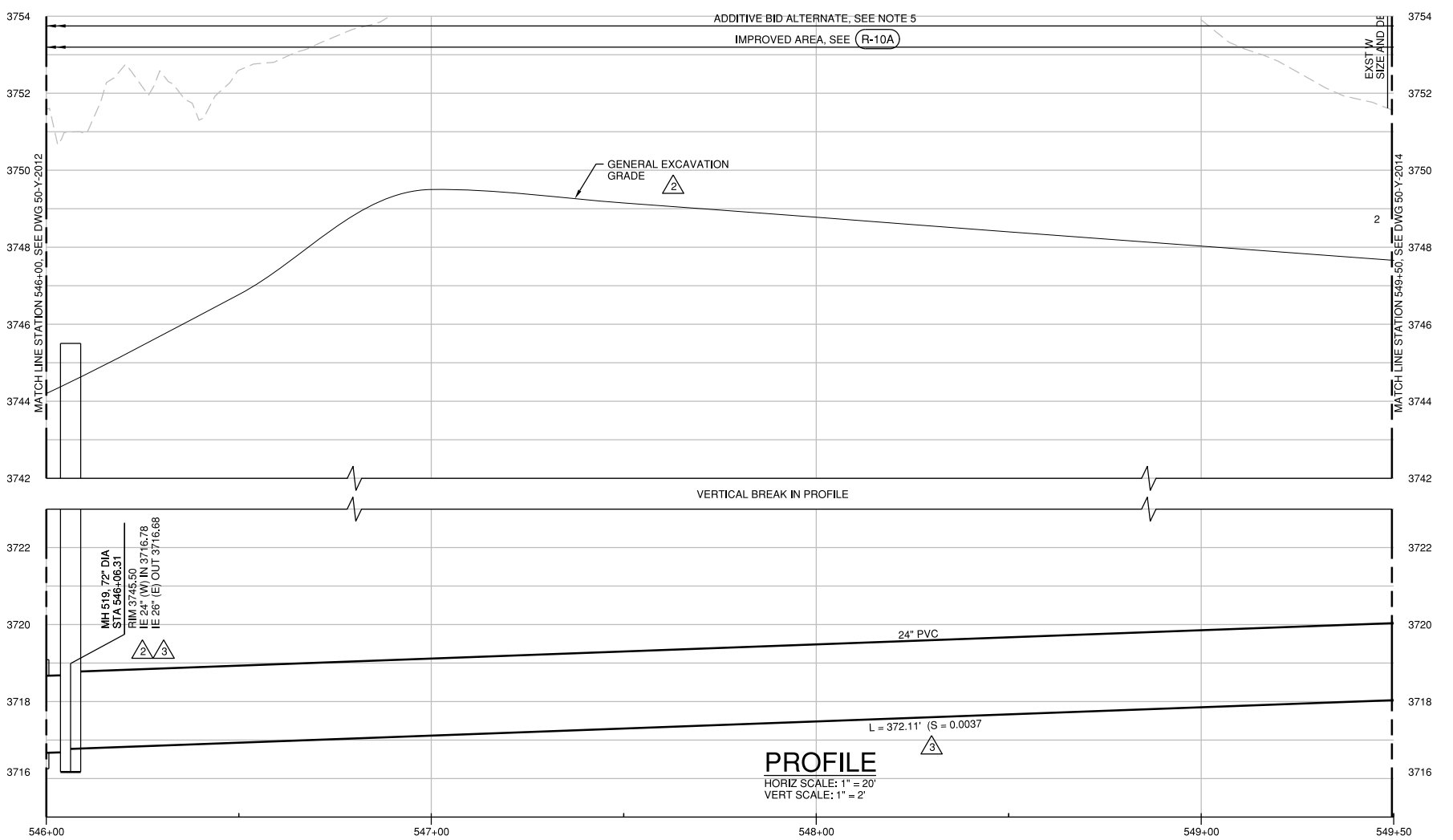
**CH2MHILL**  
 1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
 CORVALLIS, OR 97330

DESIGNED BY: T. LANEY  
 CHECKED BY: B. SIMMONS  
 APPROVED BY: B. FULLER  
 SCALE: AS SHOWN  
 FILE: 50-Y-2013-SW0707  
 DATE: SEPT 2015

VERIFY SCALES  
 0 1"  
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING  
 DWG: 50-Y-2013  
 SHEET: 19  
 COB # SW0707



**SITE PLAN**  
 SCALE: 1" = 20'



**PROFILE**  
 HORIZ SCALE: 1" = 20'  
 VERT SCALE: 1" = 2'

**GENERAL NOTES:**

- A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003, 01-G-0004, AND 01-G-0008.
- B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS AND SPECIFICATION SECTION 00220.
- C. ALL 48" MANHOLES ARE CONCRETE, FOR DETAIL SEE (S-4) TYP. MANHOLES GREATER THAN 48" ARE HDPE UNLESS SHOWN OTHERWISE, SEE DETAIL (3305-714) TYP. ALL CONC MH'S SHALL RECEIVE THERMOPLASTIC LINING PER SPECIFICATION SECTION 00470. FOR HDPE DROP MANHOLES, SEE DETAIL (3305-714) SIMILAR, EXCLUSIVE OF 90° BOTTOM BEN, TOP TEE, AND DROP LEG.
- D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

**CONSTRUCTION NOTES:**

- 1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
- 2. CONTRACTOR SHALL NOT USE LARKSPUR VILLAGE PRIVATE ROAD DURING CONSTRUCTION.
- 3. CONCRETE MANHOLE, SEE (1) MAXIMUM SPACE ALLOWED BETWEEN OUTSIDE EDGE OF MH WALL AND CASING SHALL BE 5". SEE DETAIL (3305-760).
- 4. PIPE IN CASING BETWEEN MH518 AND MH519 IS NOT REQUIRED TO BE INSTALLED WITH TUNNELING METHODS.
- 5. ALL WORK UPSTREAM AND INCLUDING MH517 SHALL BE PER ADDITIVE BID ALTERNATE.
- 6. EXST WATER LINES IN VICINITY OF TRENCH EXCAVATION ARE ABANDONED AND SHALL BE REMOVED IF EXPOSED BY EXCAVATION. REMOVE WATERLINES EXPOSED WITHIN TRENCH AND CAP REMAINING SECTIONS AT EDGE OF TRENCH.
- 7. VARIOUS DEBRIS IS LOCATED WITHIN THE MURPHY ROAD RIGHT-OF-WAY EAST OF BROSTERHOU ROAD AND WEST OF THE BNSF RAILROAD RIGHT OF WAY. DEBRIS MATERIAL MAY INCLUDE, BUT IS NOT LIMITED TO, CONCRETE BLOCK AND RUBBLE, ASPHALT PAVEMENT AND PAVEMENT DEBRIS, METAL SCRAPS, TREE BRANCHES, ROOT BALLS, CONSTRUCTION DEBRIS, TIRES AND WHEELS, WOOD CHIPS, SOIL, AND OTHER SOLID WASTE MATERIAL. WORK AREA APPEARS TO HAVE BEEN USED HISTORICALLY AS AN UNCONTROLLED DUMP SITE. CONTRACTOR SHALL DETERMINE NATURE, REMOVE, AND DISPOSE OF ALL SUCH SOLID WASTE MATERIAL ONLY WITHIN LIMITS OF RIGHT-OF-WAY AND ONLY AS NECESSARY FOR SEI INSTALLATION. NO HAZARDOUS WASTE CHARACTERIZATION HAS BEEN PERFORMED. DISCOVERY OF HAZARDOUS MATERIALS IMPACTING CONSTRUCTION SHALL BE CONSIDERED A TYPE 2 DIFFERING SITE CONDITION PER SECTION 00140.40.
- 8. INSTALL 2 ANODES (EACH SIDE OF CASING), SEE (2642-910) AND (2642-869). PROVIDE 2' OF SAND BACKFILL IN ALL DIRECTIONS OF ANODES. ANODES SHALL BE LOCATED 2 FT FROM EACH END OF CASING.

**RECORD DRAWINGS**

Revisions Drawn By Q. VEGVARY Date 9/15/15  
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FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR**  
**SITE PLAN AND PROFILE**  
**STATION 549+50 TO 550+71**  
 DESCHUTES COUNTY, OREGON



REVISIONS:	4. RECORD DWG 2015
	3. WCD 002
	2. ADDENDUM 2
	1. ADDENDUM 1

**CH2MHILL**  
 1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
 CORVALLIS, OR 97330

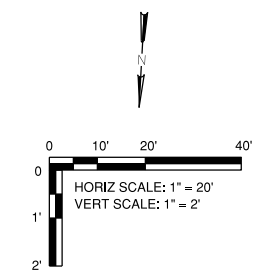
DESIGNED BY: T. LANEY  
 CHECKED BY: B. SIMONDS  
 APPROVED BY: B. FULLER  
 SCALE: AS SHOWN  
 FILE: 50-Y-2014 SW0707  
 DATE: SEPT 2015

VERIFY SCALES  
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 BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 50-Y-2014

SHEET: 20

COB # SW0707



**GENERAL NOTES:**

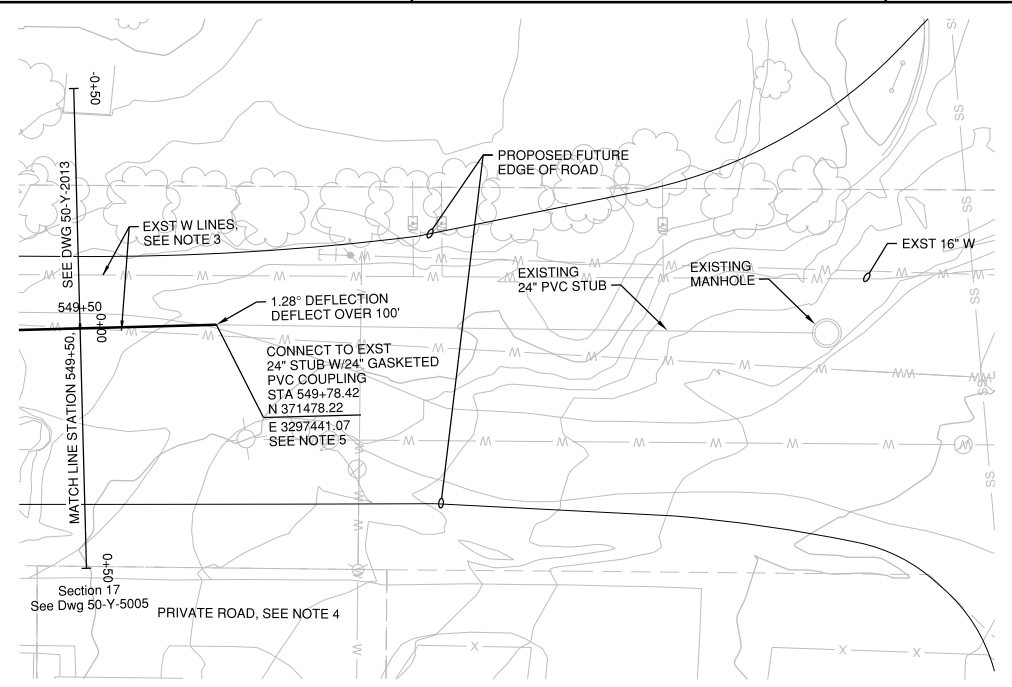
- A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003, 01-G-0004, AND 01-G-0008.
- B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS AND SPECIFICATION SECTION 00220.
- C. ALL 48" MANHOLES ARE CONCRETE, FOR DETAIL SEE (S-4), TYP. MANHOLES GREATER THAN 48" ARE HDPE UNLESS SHOWN OTHERWISE, SEE DETAIL (3305-714), TYP. ALL CONC MH'S SHALL RECEIVE THERMOPLASTIC LINING PER SPECIFICATION SECTION 00470. FOR HDPE DROP MANHOLES, SEE DETAIL (3305-714) SIMILAR, EXCLUSIVE OF 90° BOTTOM BEN, TOP TEE, AND DROP LEG.
- D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

**CONSTRUCTION NOTES:**

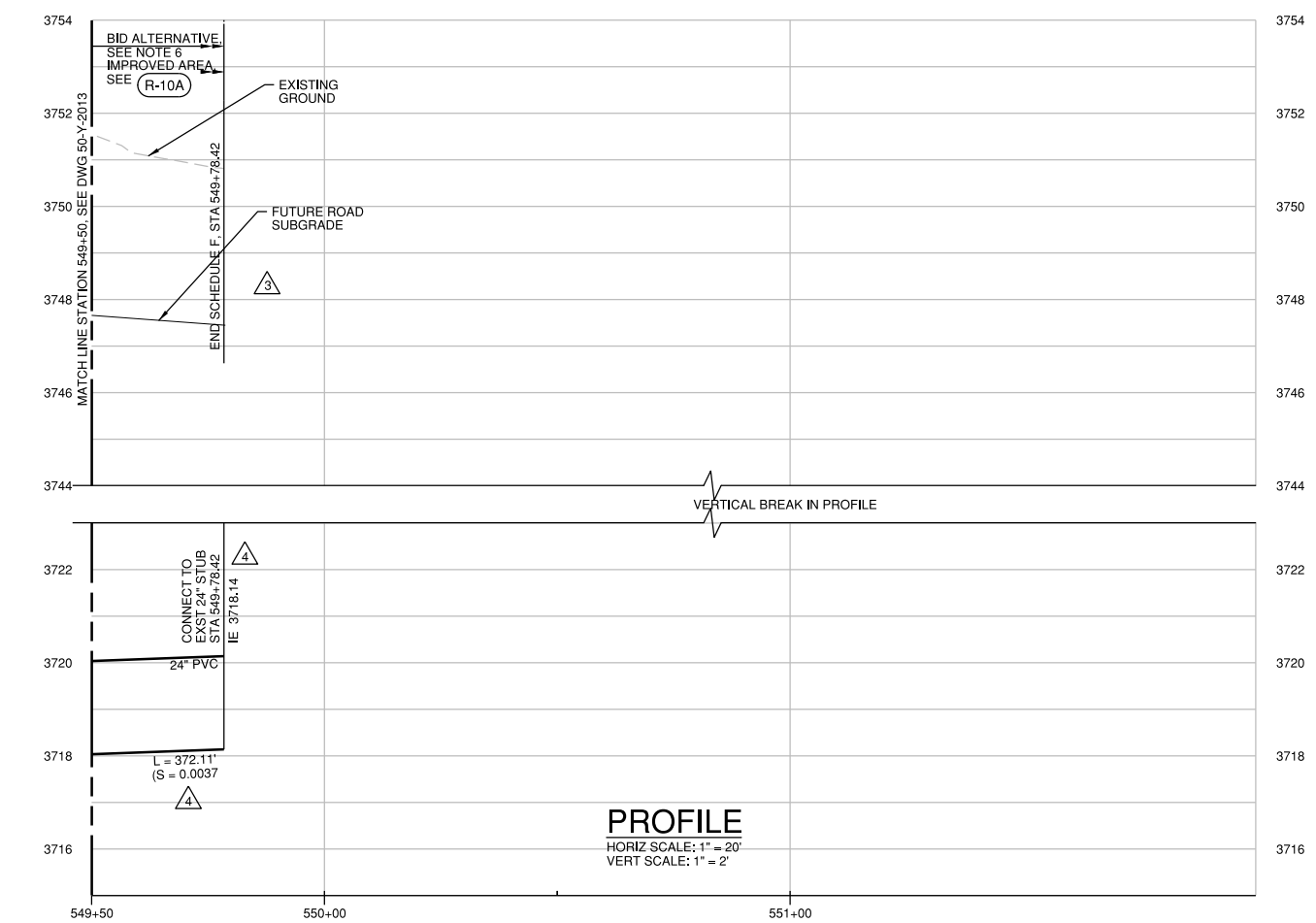
- 1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
- 2. VARIOUS DEBRIS IS LOCATED WITHIN THE MURPHY ROAD RIGHT-OF-WAY EAST OF BROSTERHUIS ROAD AND WEST OF THE BNSF RAILROAD RIGHT OF WAY. DEBRIS MATERIAL MAY INCLUDE, BUT IS NOT LIMITED TO, CONCRETE BLOCK AND RUBBLE, ASPHALT PAVEMENT AND PAVEMENT DEBRIS, METAL SCRAPS, TREE BRANCHES, ROOT BALLS, CONSTRUCTION DEBRIS, TIRES AND WHEELS, WOOD CHIPS, SOIL, AND OTHER SOLID WASTE MATERIAL. WORK AREA APPEARS TO HAVE BEEN USED HISTORICALLY AS AN UNCONTROLLED DUMP SITE. CONTRACTOR SHALL DETERMINE NATURE, REMOVE, AND DISPOSE OF ALL SUCH SOLID WASTE MATERIAL ONLY WITHIN LIMITS OF RIGHT-OF-WAY AND ONLY AS NECESSARY FOR SEI INSTALLATION. NO HAZARDOUS WASTE CHARACTERIZATION HAS BEEN PERFORMED. DISCOVERY OF HAZARDOUS MATERIALS IMPACTING CONSTRUCTION SHALL BE CONSIDERED A TYPE 2 DIFFERING SITE CONDITION PER SECTION 00140.40.
- 3. EXST WATERLINES IN VICINITY OF TRENCH EXCAVATION ARE ABANDONED AND SHALL BE REMOVED IF EXPOSED BY EXCAVATION, REMOVE WATERLINES EXPOSED WITHIN TRENCH AND CAP REMAINING SECTIONS AT EDGE OF TRENCH.
- 4. CONTRACTOR SHALL NOT USE LARKSPUR VILLAGE PRIVATE ROAD DURING CONSTRUCTION.
- 5. CONTRACTOR TO COMPLETE FIELD EXPLORATION PER SPECIFICATION SECTION 00498.20 AND REPORT INVERT ELEVATION OF EXISTING STUB PRIOR TO START OF CONSTRUCTION OF SEI.
- 6. ALL WORK UPSTREAM OF AND INCLUDING MH517 SHALL BE PER ADDITIVE BID ALTERNATE.
- 7. CONTRACTOR MAY USE INTERSECTION OF MURPHY ROAD AND BROSTERHUIS ROAD AS A CONSTRUCTION ENTRANCE TO DEBRIS CORRIDOR. CONTRACTOR SHALL MAINTAIN SAFE PEDESTRIAN ACCESS VIA THE EXISTING SIDEWALK THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL REMOVE THE EXISTING CURB AND INSTALL AN ASPHALT RAMP FROM THE ROAD TO THE EXISTING CONCRETE SIDEWALK. ON THE EAST SIDE OF THE SIDEWALK, THE CONTRACTOR SHALL INSTALL AN ADDITIONAL ASPHALT DRIVE 5 FEET TO THE EAST PRIOR TO INSTALLATION OF CONSTRUCTION ENTRANCE DETAIL SHOWN ON DRAWING 70-EC-5001. UPON COMPLETION OF ALL WORK IN THE MURPHY ROAD RIGHT-OF-WAY, THE CONTRACTOR SHALL RESTORE ALL FEATURES, INCLUDING BUT NOT LIMITED TO, CURBS, SIDEWALKS, ETC. TO PRE-CONSTRUCTION CONDITION.

**RECORD DRAWINGS**

Revisions Drawn By O. VEGVARY Date 9/15/15  
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS; THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

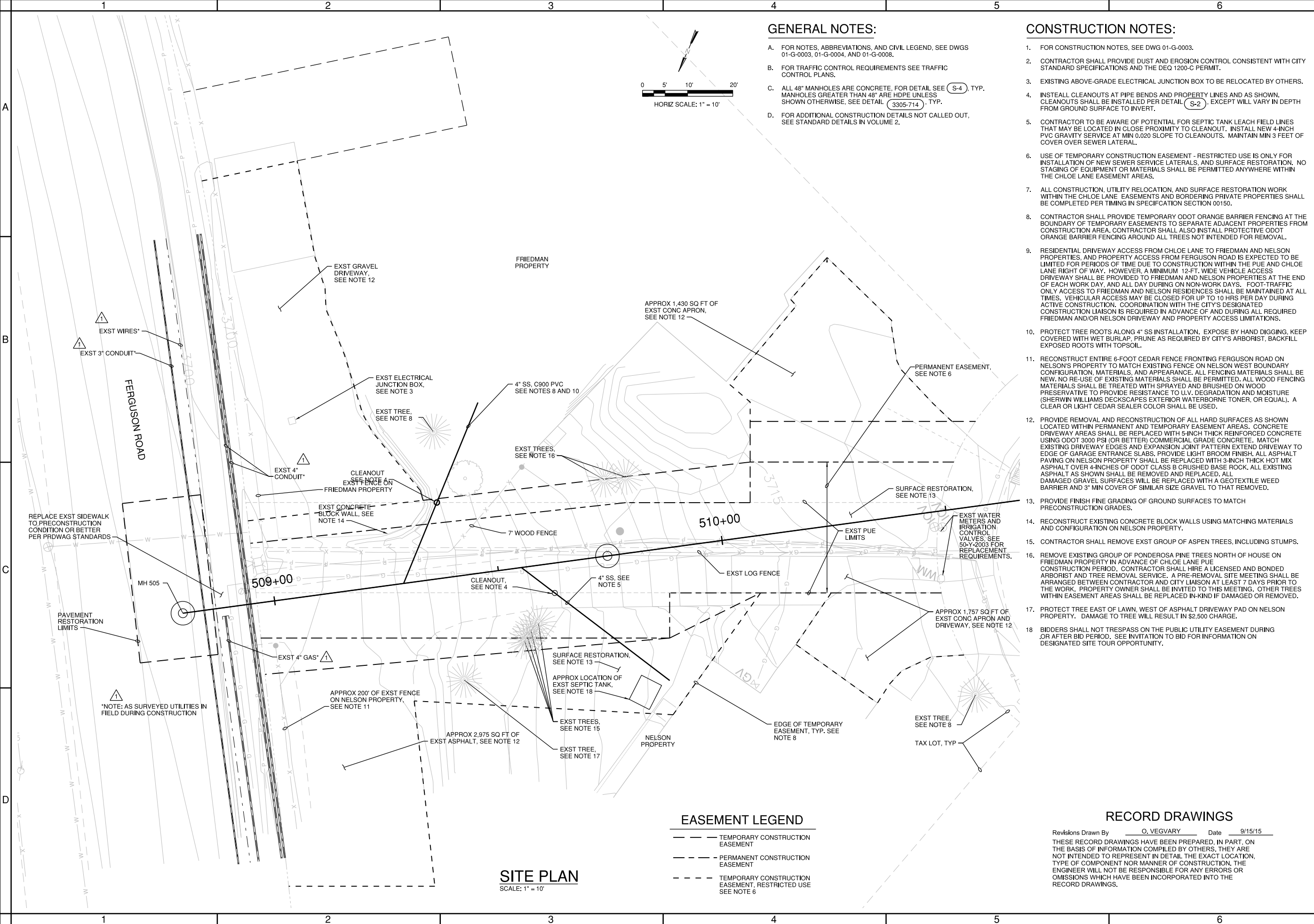


**SITE PLAN**  
 SCALE: 1" = 20'



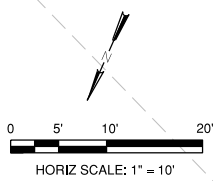
**PROFILE**  
 HORIZ SCALE: 1" = 20'  
 VERT SCALE: 1" = 2'





**GENERAL NOTES:**

- A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003, 01-G-0004, AND 01-G-0008.
- B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.
- C. ALL 48" MANHOLES ARE CONCRETE, FOR DETAIL SEE (S-4) TYP. MANHOLES GREATER THAN 48" ARE HDPE UNLESS SHOWN OTHERWISE, SEE DETAIL (3305-714) TYP.
- D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.



**CONSTRUCTION NOTES:**

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. CONTRACTOR SHALL PROVIDE DUST AND EROSION CONTROL CONSISTENT WITH CITY STANDARD SPECIFICATIONS AND THE DEQ 1200-C PERMIT.
3. EXISTING ABOVE-GRADE ELECTRICAL JUNCTION BOX TO BE RELOCATED BY OTHERS.
4. INSTALL CLEANOUTS AT PIPE BENDS AND PROPERTY LINES AND AS SHOWN. CLEANOUTS SHALL BE INSTALLED PER DETAIL (S-2), EXCEPT WILL VARY IN DEPTH FROM GROUND SURFACE TO INVERT.
5. CONTRACTOR TO BE AWARE OF POTENTIAL FOR SEPTIC TANK LEACH FIELD LINES THAT MAY BE LOCATED IN CLOSE PROXIMITY TO CLEANOUT. INSTALL NEW 4-INCH PVC GRAVITY SERVICE AT MIN 0.020 SLOPE TO CLEANOUTS. MAINTAIN MIN 3 FEET OF COVER OVER SEWER LATERAL.
6. USE OF TEMPORARY CONSTRUCTION EASEMENT - RESTRICTED USE IS ONLY FOR INSTALLATION OF NEW SEWER SERVICE LATERALS AND SURFACE RESTORATION. NO STAGING OF EQUIPMENT OR MATERIALS SHALL BE PERMITTED ANYWHERE WITHIN THE CHLOE LANE EASEMENT AREAS.
7. ALL CONSTRUCTION, UTILITY RELOCATION, AND SURFACE RESTORATION WORK WITHIN THE CHLOE LANE EASEMENTS AND BORDERING PRIVATE PROPERTIES SHALL BE COMPLETED PER TIMING IN SPECIFICATION SECTION 00150.
8. CONTRACTOR SHALL PROVIDE TEMPORARY ODOT ORANGE BARRIER FENCING AT THE BOUNDARY OF TEMPORARY EASEMENTS TO SEPARATE ADJACENT PROPERTIES FROM CONSTRUCTION AREA. CONTRACTOR SHALL ALSO INSTALL PROTECTIVE ODOT ORANGE BARRIER FENCING AROUND ALL TREES NOT INTENDED FOR REMOVAL.
9. RESIDENTIAL DRIVEWAY ACCESS FROM CHLOE LANE TO FRIEDMAN AND NELSON PROPERTIES AND PROPERTY ACCESS FROM FERGUSON ROAD IS EXPECTED TO BE LIMITED FOR PERIODS OF TIME DUE TO CONSTRUCTION WITHIN THE PUE AND CHLOE LANE RIGHT OF WAY. HOWEVER, A MINIMUM 12-FT. WIDE VEHICLE ACCESS DRIVEWAY SHALL BE PROVIDED TO FRIEDMAN AND NELSON PROPERTIES AT THE END OF EACH WORK DAY, AND ALL DAY DURING ON-NON-WORK DAYS. FOOT-TRAFFIC ONLY ACCESS TO FRIEDMAN AND NELSON RESIDENCES SHALL BE MAINTAINED AT ALL TIMES. VEHICULAR ACCESS MAY BE CLOSED FOR UP TO 10 HRS PER DAY DURING ACTIVE CONSTRUCTION. COORDINATION WITH THE CITY'S DESIGNATED CONSTRUCTION LIAISON IS REQUIRED IN ADVANCE OF AND DURING ALL REQUIRED FRIEDMAN AND/OR NELSON DRIVEWAY AND PROPERTY ACCESS LIMITATIONS.
10. PROTECT TREE ROOTS ALONG 4" SS INSTALLATION. EXPOSE BY HAND DIGGING, KEEP COVERED WITH WET BURLAP. PRUNE AS REQUIRED BY CITY'S ARBORIST, BACKFILL EXPOSED ROOTS WITH TOPSOIL.
11. RECONSTRUCT ENTIRE 6-FOOT CEDAR FENCE FRONTING FERGUSON ROAD ON NELSON'S PROPERTY TO MATCH EXISTING FENCE ON NELSON WEST BOUNDARY CONFIGURATION, MATERIALS, AND APPEARANCE. ALL FENCING MATERIALS SHALL BE NEW. NO RE-USE OF EXISTING MATERIALS SHALL BE PERMITTED. ALL WOOD FENCING MATERIALS SHALL BE TREATED WITH SPRAYED AND BRUSHED ON WOOD PRESERVATIVE TO PROVIDE RESISTANCE TO U.V. DEGRADATION AND MOISTURE (SHERWIN WILLIAMS DECKSCAPES EXTERIOR WATERBORNE TONER, OR EQUAL). A CLEAR OR LIGHT CEDAR SEALER COLOR SHALL BE USED.
12. PROVIDE REMOVAL AND RECONSTRUCTION OF ALL HARD SURFACES AS SHOWN LOCATED WITHIN PERMANENT AND TEMPORARY EASEMENT AREAS. CONCRETE DRIVEWAY AREAS SHALL BE REPLACED WITH 5-INCH THICK REINFORCED CONCRETE USING ODOT 3000 PSI (OR BETTER) COMMERCIAL GRADE CONCRETE. MATCH EXISTING DRIVEWAY EDGES AND EXPANSION JOINT PATTERN EXTEND DRIVEWAY TO EDGE OF GARAGE ENTRANCE SLABS. PROVIDE LIGHT BROOM FINISH. ALL ASPHALT PAVING ON NELSON PROPERTY SHALL BE REPLACED WITH 3-INCH THICK HOT MIX ASPHALT OVER 4-INCHES OF ODOT CLASS B CRUSHED BASE ROCK. ALL EXISTING ASPHALT AS SHOWN SHALL BE REMOVED AND REPLACED. ALL DAMAGED GRAVEL SURFACES WILL BE REPLACED WITH A GEOTEXTILE WEED BARRIER AND 3" MIN COVER OF SIMILAR SIZE GRAVEL TO THAT REMOVED.
13. PROVIDE FINISH FINE GRADING OF GROUND SURFACES TO MATCH PRECONSTRUCTION GRADES.
14. RECONSTRUCT EXISTING CONCRETE BLOCK WALLS USING MATCHING MATERIALS AND CONFIGURATION ON NELSON PROPERTY.
15. CONTRACTOR SHALL REMOVE EXST GROUP OF ASPEN TREES, INCLUDING STUMPS.
16. REMOVE EXISTING GROUP OF PONDEROSA PINE TREES NORTH OF HOUSE ON FRIEDMAN PROPERTY IN ADVANCE OF CHLOE LANE PUE CONSTRUCTION PERIOD. CONTRACTOR SHALL HIRE A LICENSED AND BONDED ARBORIST AND TREE REMOVAL SERVICE. A PRE-REMOVAL SITE MEETING SHALL BE ARRANGED BETWEEN CONTRACTOR AND CITY LIAISON AT LEAST 7 DAYS PRIOR TO THE WORK. PROPERTY OWNER SHALL BE INVITED TO THIS MEETING. OTHER TREES WITHIN EASEMENT AREAS SHALL BE REPLACED IN-KIND IF DAMAGED OR REMOVED.
17. PROTECT TREE EAST OF LAWN, WEST OF ASPHALT DRIVEWAY PAD ON NELSON PROPERTY. DAMAGE TO TREE WILL RESULT IN \$2,500 CHARGE.
18. BIDDERS SHALL NOT TRESPASS ON THE PUBLIC UTILITY EASEMENT DURING OR AFTER BID PERIOD. SEE INVITATION TO BID FOR INFORMATION ON DESIGNATED SITE TOUR OPPORTUNITY.

**EASEMENT LEGEND**

- TEMPORARY CONSTRUCTION EASEMENT
- PERMANENT CONSTRUCTION EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT, RESTRICTED USE SEE NOTE 6

**SITE PLAN**  
SCALE: 1" = 10'

**RECORD DRAWINGS**

Revisions Drawn By O. VEGVARY Date 9/15/15  
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FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR**  
**SITE PLAN FOR CHLOE LN PUE**  
**STATION 507+50 TO 510+50**  
 DESCHUTES COUNTY, OREGON



REVISIONS:


**CH2MHILL**  
 1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
 CORVALLIS, OR 97330

DESIGNED BY: T. LANEY  
 CHECKED BY: B. SIMMONS  
 APPROVED BY: B. FULLER  
 SCALE: AS SHOWN  
 FILE: 50-Y-5002-SW0707  
 DATE: SEPT 2015

VERIFY SCALES  
 0 1"  
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: **50-Y-5002**

SHEET: **22**

COB # **SW0707**



**CONSTRUCTION NOTES:**

- EXCAVATE EXISTING SURFACE EARTHEN MATERIAL TO ELEVATIONS SHOWN BY "GENERAL EXCAVATION GRADE" (COMPETENT GROUND ELEVATION PER SPEC 00150.11(C)). THIS EXCAVATED MATERIAL IS DEFINED AS "GENERAL EXCAVATION" IN BID SCHEDULE.
- PROVIDE TRENCH BACKFILL TO PROPOSED ROAD SUBGRADE OR TO GENERAL EXCAVATION GRADE, WHICH EVER IS AT THE LOWER ELEVATION.
- GENERAL EXCAVATION GRADES AND PROPOSED ROAD SUBGRADES SHALL BE LINEARLY INTERPOLATED AT ALL POINTS BETWEEN CROSS SECTIONS.
- FINAL GRADED SLOPES BETWEEN STA 541+00 AND STA 549+78 SHALL BE NO GREATER THAN 1-1/2:1. FINAL GRADED SLOPES INCLUDE SLOPES REMAINING AFTER GENERAL EXCAVATION IS COMPLETED AND SLOPES REMAINING AFTER THE COMPLETION OF PIPE INSTALLATION AND BACKFILL OF PIPE TRENCH.

FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR  
CROSS-SECTIONS SHEET 2**

DESCHUTES COUNTY, OREGON



REVISIONS:	3 RECORD DWG 2015
	2 WCD 003
	1 ADDENDUM 1

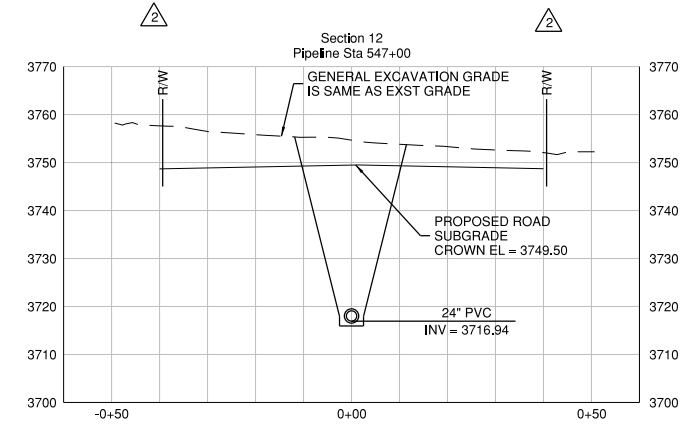
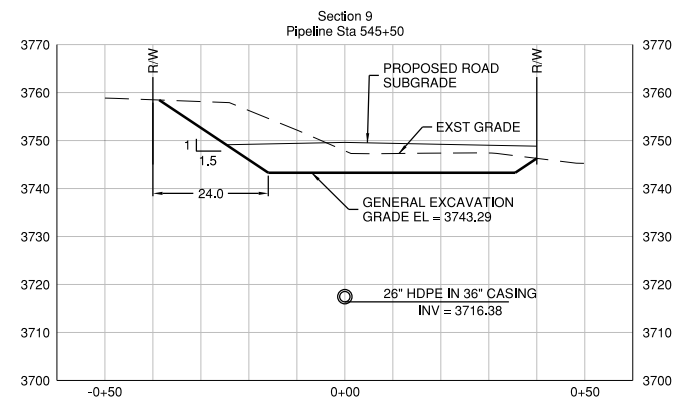
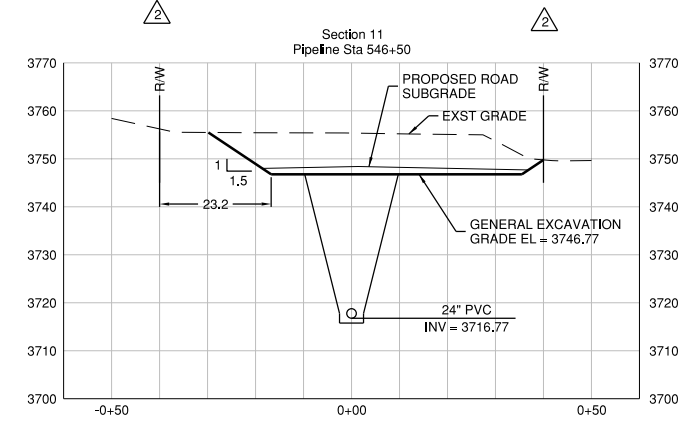
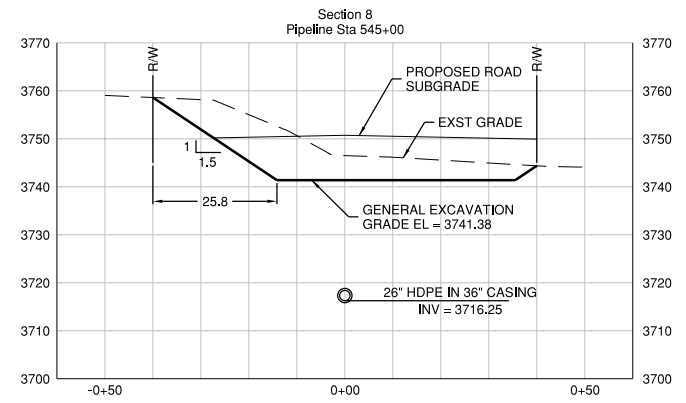
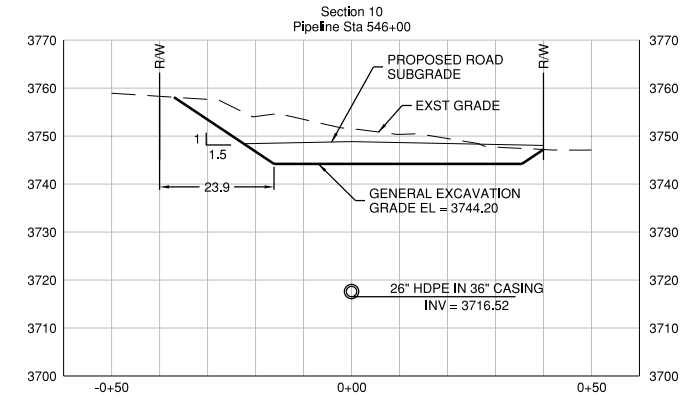
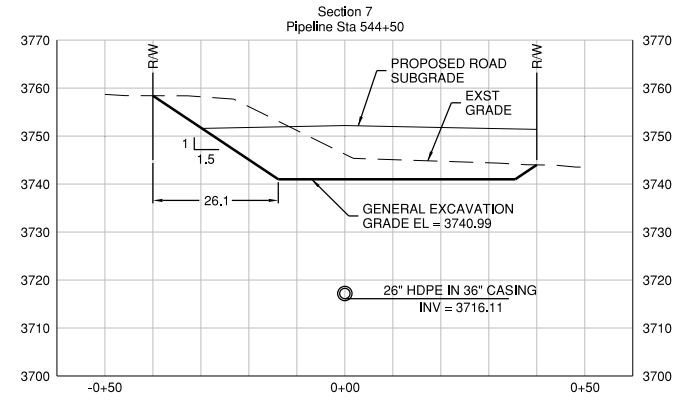
**CH2MHILL**  
 1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
 CORVALLIS, OR 97330

DESIGNED BY: T. LANEY  
 CHECKED BY: B. SIMONDS  
 APPROVED BY: B. FULLER  
 SCALE: AS SHOWN  
 FILE: 50-Y-5003-SW0707  
 DATE: SEPT 2015

VERIFY SCALES  
 0 1"  
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 50-Y-5004  
 SHEET: 24  
 COB # SW0707

**RECORD DRAWINGS**  
 Revisions Drawn By O. VEGVARY Date 9/15/15  
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**CONSTRUCTION NOTES:**

- EXCAVATE EXISTING SURFACE EARTHEN MATERIAL TO ELEVATIONS SHOWN BY "GENERAL EXCAVATION GRADE" (COMPETENT GROUND ELEVATION PER SPEC 00150.11(C)). THIS EXCAVATED MATERIAL IS DEFINED AS "GENERAL EXCAVATION" IN BID SCHEDULE.
- PROVIDE TRENCH BACKFILL TO PROPOSED ROAD SUBGRADE OR TO GENERAL EXCAVATION GRADE, WHICH EVER IS AT THE LOWER ELEVATION.
- GENERAL EXCAVATION GRADES AND PROPOSED ROAD SUBGRADES SHALL BE LINEARLY INTERPOLATED AT ALL POINTS BETWEEN CROSS SECTIONS.
- FINAL GRADED SLOPES BETWEEN STA 541+00 AND STA 549+78 SHALL BE NO GREATER THAN 1-1/2:1. FINAL GRADED SLOPES INCLUDE SLOPES REMAINING AFTER GENERAL EXCAVATION IS COMPLETED AND SLOPES REMAINING AFTER THE COMPLETION OF PIPE INSTALLATION AND BACKFILL OF PIPE TRENCH.

FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

**BEND SE INTERCEPTOR  
CROSS-SECTIONS SHEET 3**

DESCHUTES COUNTY, OREGON



REVISIONS:	
1	RECORD DWG 2015
2	WCD 003
3	ADDENDUM 1

**CH2MHILL**  
 1000 NE CIRCLE BLVD,  
 BLDG 10, SUITE 10350  
 CORVALLIS, OR 97330

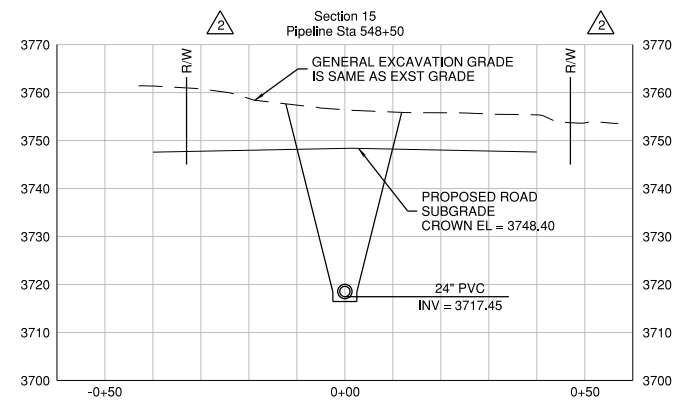
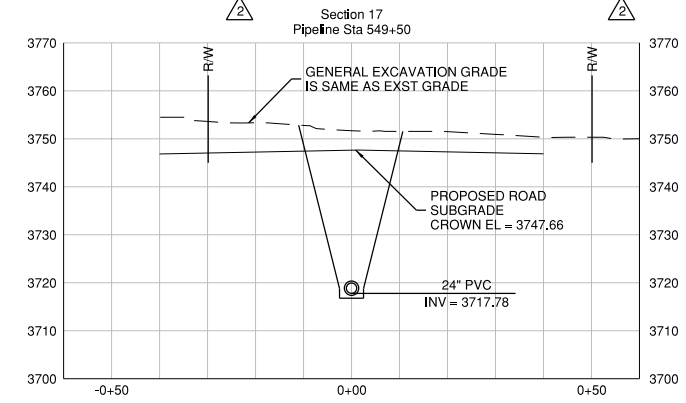
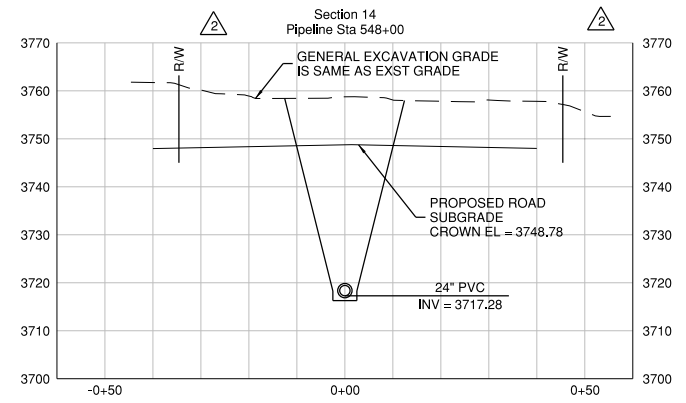
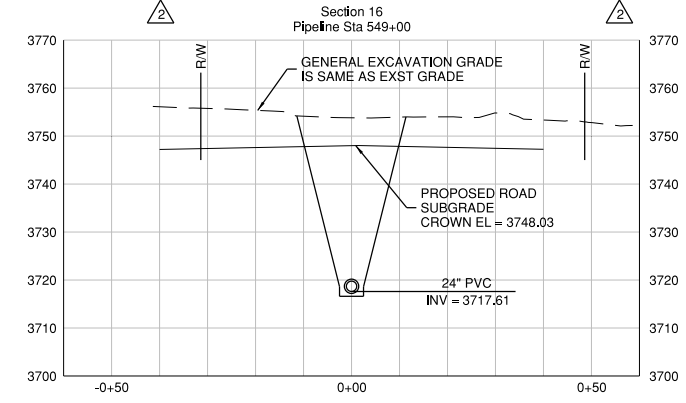
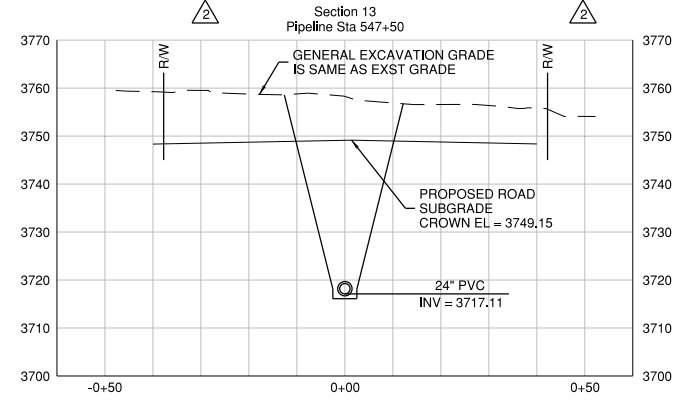
DESIGNED BY: T. LANEY  
 CHECKED BY: B. SIMONDS  
 APPROVED BY: B. FULLER  
 SCALE: AS SHOWN  
 FILE: 50-Y-5003-SW0707  
 DATE: **SEPT 2015**

VERIFY SCALES  
 0 1"  
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: **50-Y-5003**  
 SHEET: **25**  
 COB # **SW0707**

**RECORD DRAWINGS**

Revisions Drawn By O. VEGVARY Date 9/15/15  
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.



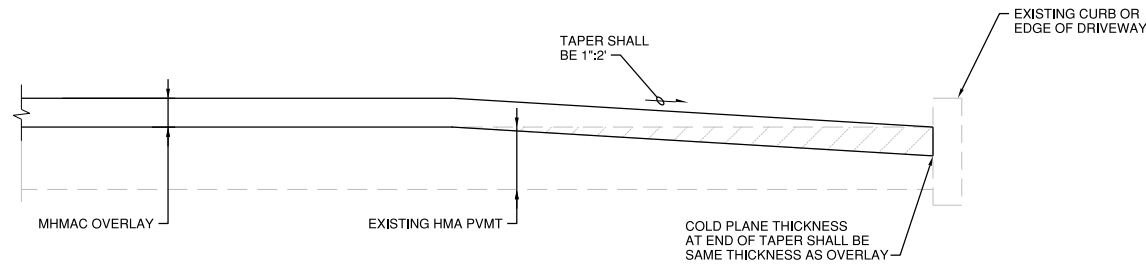


FOR SEALS AND SIGNATURES, SEE ORIGINAL DRAWINGS DATED JULY 2014

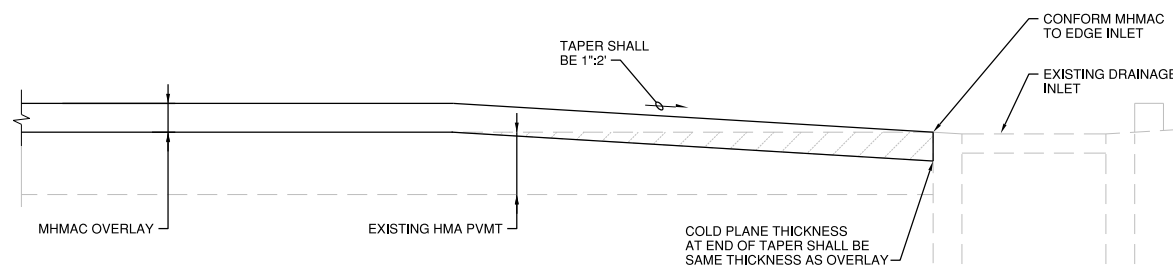
**RECORD DRAWINGS**

Revisions Drawn By O. VEGVARY Date 9/15/15

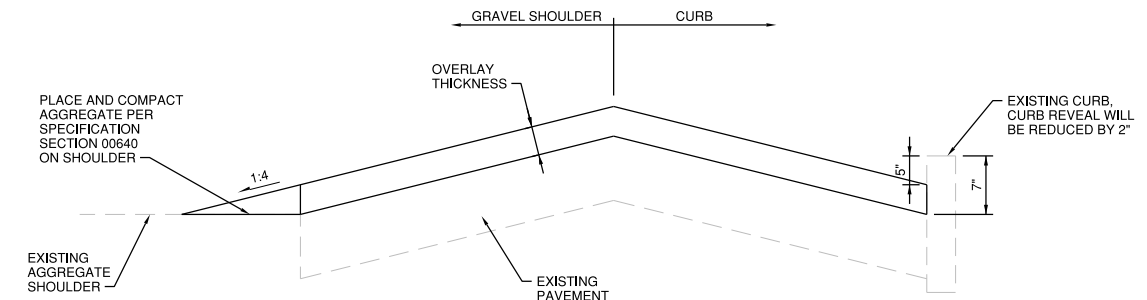
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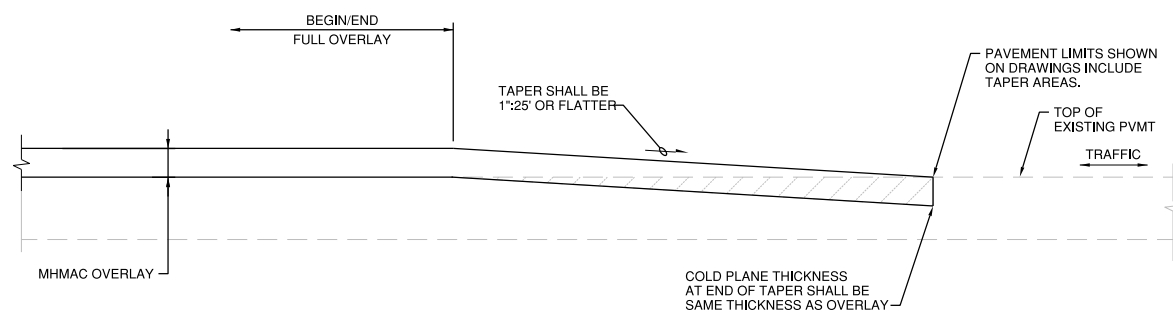
**1 TAPER TO EXISTING CURB ON CHLOE LANE**  
NTS



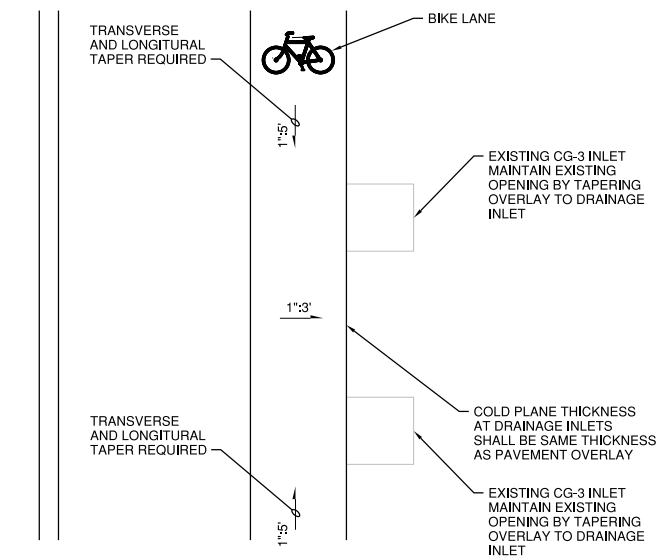
**2 TAPER TO EXISTING DRAINAGE ON CHLOE LANE**  
NTS



**4 SE 15TH STREET OVERLAY CROSS SECTION**  
NTS



**3 LONGITUDINAL MHMAC TAPER TO EXISTING PAVEMENT**  
NTS



**5 TAPER FOR CG-3 INLETS IN BIKE LANE ON SE 15TH ST**  
NTS

**BEND SE INTERCEPTOR  
PAVEMENT TAPER DETAILS**

DESCHUTES COUNTY, OREGON



REVISIONS:	RECORD DWG 2015

**CH2MHILL**  
1000 NE CIRCLE BLVD,  
BLDG 10, SUITE 10350  
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DESIGNED BY: T. LANEY  
CHECKED BY: B. SIMONDS  
APPROVED BY: B. FULLER  
SCALE: AS SHOWN  
FILE: 50-Y-5003 SW0707  
DATE: **SEPT 2015**

VERIFY SCALES  
0 1"  
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: **50-Y-5006**

SHEET: **26**

COB # **SW0707**