

Approval is for work  
within the Right-of-Way  
ONLY

# MCI metro ACCESS TRANSMISSION SERVICES, LLC



OUTSIDE PLANT CONSTRUCTION



ENGINEERING SERVICES

## BH\_CROSSROADS\_TO\_REDMOND\_RIDGE\_MSC

REDMOND, WASHINGTON

UNDERGROUND FIBER INSTALLATION  
RIGHT-OF-WAY CONSTRUCTION PERMIT

2057' OF DIRECTIONAL BORE, 37' OF TRENCH, AND 858' EXISTING


CITY OF REDMOND CONDUIT AND 2 NEW VAULTS

MCI PERMIT NUMBER: 1807BDIO.18\_UG\_RED\_90187

SITE SPAN NFID: 1807BDIO.18

CAPITAL PROJECT: 072443-001

07/06/2020



**City of Redmond**  
WASHINGTON

City of Redmond  
Public Works - Right-of-Way

X

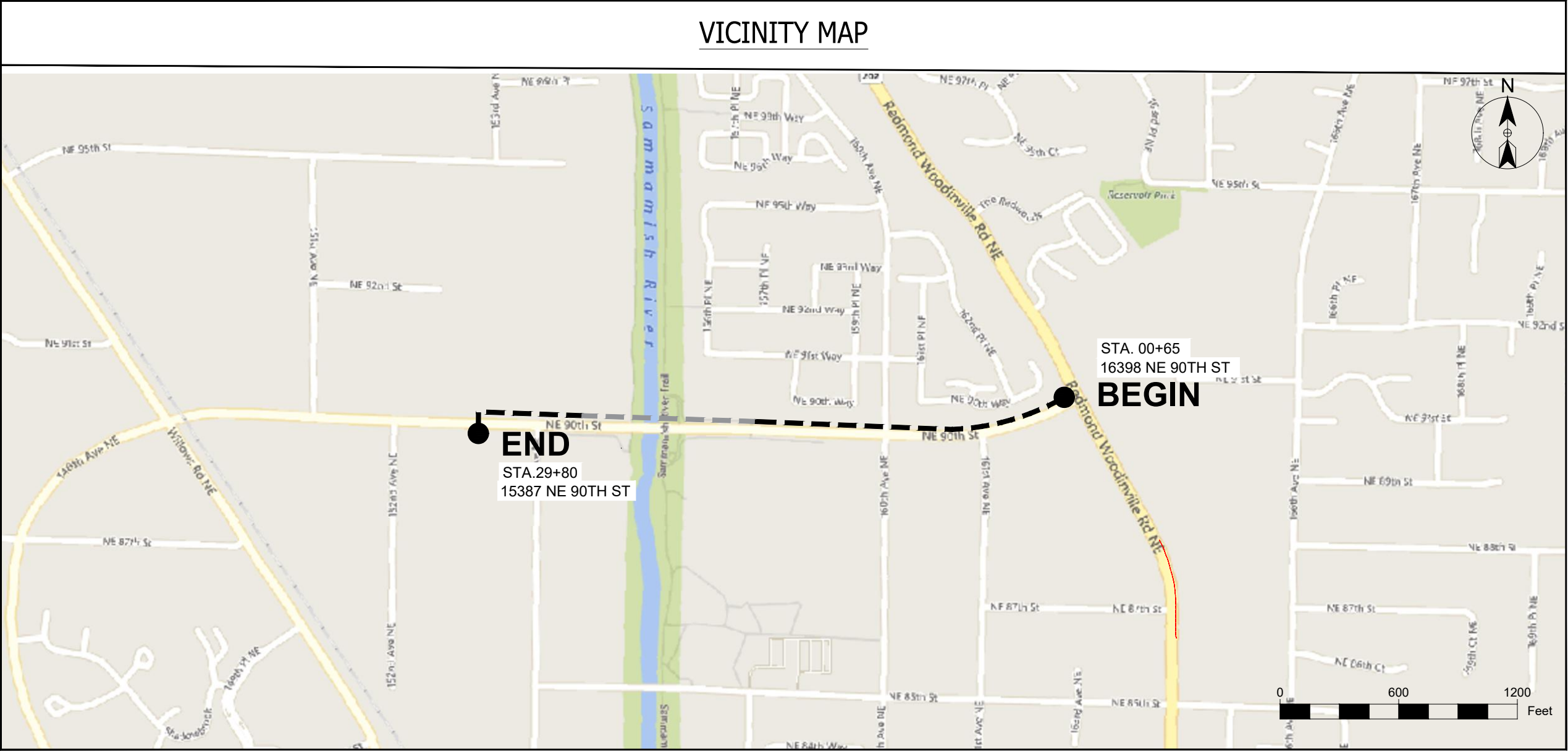
Approved  
Approved with Corrections noted  
Revision Required

Signature: Yuri Bergeron

06/14/2022 10:49:36 AM

**Field Pre-Construction Meeting Required**  
**Request minimum 72 hours in advance**  
Online: [Redmond.gov/REPS](https://redmond.gov/REPS) using your registered login or  
Phone IVR System at (425)556-2435 using the pin # provided on your permit.

The city is in talks to arrange  
an agreement for utilizing city  
conduit crossing NE 90 St.  
This current review is for  
boring only at this time due to  
incoming roadway  
improvements this summer.



SEFNCO  
COMMUNICATIONS

MasTec

verizon

MCI METRO  ACCESS TRANSMISSION SERVICES, CORP.  OUTSIDE PLANT CONSTRUCTION  RED UNDERGROUND FIBER INSTALLATION	SITE NAME:  BH_CROSSROADS_TO REDMOND_RIDGE_MSC
	LOCATION ADDRESS:  16210 NE 90TH ST REDMOND, WA 98052
	MASTEC ID NUMBER:  1807BDIO.18_UG_RED_90187

ENGINEER: D.V.

CONTACTS

ENGINEERING CONTRACTOR

NAME OF FIRM: MASTEC NORTH AMERICA  
PROJECT MANAGER: RICHARD FENTON  
PHONE: 541-490-3497  
EMAIL: RICHARD.FENTON@MASTEC.COM  
ENGINEERING MANAGER: MICHAEL KINNEY  
PHONE: (253) 569-2964  
EMAIL: MKINNEY@SEFNCO.COM

OWNERS

MCI METRO ACCESS TRANSMISSION SERVICES, CORP.  
COMPANY REP: BRAD LANDIS  
3245 158TH AVE SE  
BELLEVUE, WA 98009

CONSTRUCTION CONTRACTOR

NAME OF FIRM: MASTEC NORTH AMERICA  
CONSTRUCTION MANAGER: CASEY CHRISTLIEB  
PHONE: 509-823-0965  
EMAIL: CASEY.CHRISTLIEB@MASTEC.COM  
CONSTRUCTION MANAGER

JURISDICTION

CITY OF REDMOND  
PHONE: 425-556-2494  
15670 NE 85TH STREET  
REDMOND, WA 98052

SHEET INDEX

- 01 COVER SHEET
- 02 VICINITY MAP, CONTACTS & SHEET INDEX
- 03 GENERAL NOTES
- 04 LEGEND
- 05 SHEET OVERVIEW
- 06-11 SITE PLAN
- 12-17 TYPICALS

P.E. STAMP		DATE
DRAWN BY: N.T.		
DATE: 07/06/2020		
REVISIONS		
DATE	DESCRIPTION	INITIAL
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SCALE	HORZ:	N/A
	VERT:	N/A
SHEET	02	OF 17

GENERAL NOTES

THE LOCATIONS OF UTILITIES SHOWN ON THESE DRAWING ARE ONLY APPROXIMATE. SEFNCO HEREBY DISCLAIMS ANY RESPONSIBILITY TO THIRD PARTIES FOR THE ACCURACY OF THIS INFORMATION. PERSONS WORKING IN THE AREA COVERED BY THIS DRAWING MUST CONTACT THE STATEWIDE CALL-BEFORE-YOU-DIG SYSTEM TO ASCERTAIN THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO PERFORMING ANY EXCAVATION.

1.

ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF UTILITY IMPROVEMENTS SHALL MEET OR EXCEED SITE WORK STANDARDS AND THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE LOCAL JURISDICTION REGULATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS MAY REQUIRE INSPECTED AND APPROVED BY THE LOCAL JURISDICTION INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY DESIGNEE OF PROJECT SPONSOR/OWNER.
2.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
3.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS IF REQUIRED.
4.

THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE LOCAL JURISDICTION AND ALL UTILITY COMPANIES WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION, TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION, AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
5.

THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND ONE (1) COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.
6.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO: EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
7.

IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
8.

ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
9.

FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY THE LOCAL JURISDICTION, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND PHASING PLAN IN ACCORDANCE WITH M.U.T.C.D. FOR APPROVAL. PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY SAID PLANS. PRIOR TO INSTALLATION A PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH LOCAL JURISDICTION.

10.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED OR RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.
11.

PER AGENCY STANDARDS THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
12.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO THE LOCAL JURISDICTION INSPECTOR AT ALL TIMES.
13.

DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. FOR ADDITIONAL INFORMATION CONTACT THE ENGINEER FOR CLARIFICATION AND NOTE ON THE RECORD DRAWINGS.
14.

ALL EROSION AND SEDIMENT CONTROL (E.S.C.) MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION PRIOR TO GROUND DISTURBING ACTIVITY. ALL E.S.C. MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.
15.

ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE LOCAL JURISDICTION ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.
16.

ALL CONSTRUCTION OPERATIONS, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE TIME PERIOD APPROVED BY THE LOCAL JURISDICTION.
17.

CALL THE "CALL BEFORE YOU DIG" NUMBER 48HRS IN ADVANCE AT 1-800-424-5555 PRIOR TO DIGGING.

REDMOND

GENERAL NOTES

1.

ALL METHODS AND MATERIALS SPECIFICATION SHALL MEET ALL CITY OF REDMOND 2020 STANDARD SPECIFICATIONS AND WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
2.

THE CITY OF REDMOND 2020 STANDARD SPECIFICATIONS AND DETAILS SUPPLEMENTS AND IN SOME CASES SUPERSEDES THE WSDOT/APWA STANDARD SPECIFICATION FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
3.

ALL REDMOND STANDARD DETAIL DRAWINGS CAN BE FOUND AT THE FOLLOWING WEBSITE:  
<https://www.redmond.gov/709/Standard-Specifications-Details>
4.

ALL WSDOT STANDARD PLANS CAN BE FOUND AT THE FOLLOWING WEBSITE:  
<https://www.wsdot.wa.gov/Design/Standards/#StdPlans>
5.

ALL ASPHALT REPAIR TO BE DONE IN ACCORDANCE WITH REDMOND STANDARD DETAILS. SEE REDMOND STANDARD DETAILS 201, 202, AND 203.
6.

ALL SIDEWALK REPAIR TO BE DONE IN ACCORDANCE WITH REDMOND STANDARD DETAILS. SEE REDMOND STANDARD DETAILS 303, 303A, and 303B.
7.

ALL CURB AND GUTTER REPAIR TO BE DONE IN ACCORDANCE WITH REDMOND STANDARD DETAILS. SEE REDMOND STANDARD DETAIL 304.
8.

UTILITY LOCATIONS SHOWN ON THIS PLAN ARE BASED ON DOCUMENT RESEARCH AND FIELD EVALUATION. THE INFORMATION MAY NOT BE ACCURATE OR COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PHYSICALLY LOCATE AND VERIFY LOCATION AND DEPTH OF ALL UTILITIES WITHIN THE CONSTRUCTION PATH. ALL INSTALLATIONS MUST COMPLY WITH MINIMUM HORIZONTAL AND VERTICAL CLEARANCES FROM UTILITIES.



MCI METRO  ACCESS TRANSMISSION SERVICES, CORP.  OUTSIDE PLANT CONSTRUCTION	SITE NAME:  BH CROSSROADS TO REDMOND_RIDGE_MSC
	LOCATION ADDRESS:  16210 NE 90TH ST REDMOND, WA 98052
	MASTEC ID NUMBER:  1807BDIO.18_UG_RED_90187

ENGINEER: D.V.

P.E. STAMP

DATE

DRAWN BY: N.T.

DATE: 07/06/2020

REVISIONS

DATE	DESCRIPTION	INITIAL

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SCALE

HORIZ: N/A

VERT: N/A

SHEET 03 OF 17

PROPOSED

PROPOSED AERIAL STRAND



DIRECTIONAL BORE



TRENCH



EXISTING VERIZON

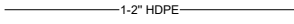
EXISTING AERIAL STRAND



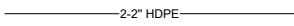
EXISTING UNDERGROUND



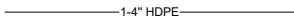
1\_2" HDPE



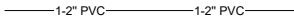
2\_2" HDPE



1\_4" HDPE



1\_2" PVC



2\_2" PVC



1\_4" PVC

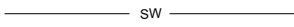


INNERDUCT



BASE LAYERS

SIDEWALK



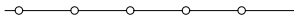
EDGE OF PAVEMENT



FACE OF CURB



FENCE



GUARDRAIL



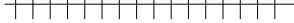
LIP OF GUTTER



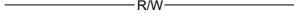
PROPERTY LINE



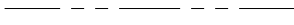
RAILROAD



RIGHT OF WAY



CENTER LINE



EXISTING UTILITIES

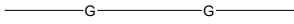
TELECOMMUNICATION



ELECTRICAL



GAS LINE



RECYCLED WATER



SANITARY SEWER



STORM DRAIN



WATER



LEGEND

PROPOSED SYMBOLS

- PROPOSED MANHOLE
- PROPOSED VAULT
- PROPOSED ANCHOR
- PROPOSED GUY
- PROPOSED SIDEWALK ANCHOR & GUY
- PROPOSED RISER
- POTHOLE
- BORE PIT

EXISTING MCI SYMBOLS

- EXISTING MCI MANHOLE
- EXISTING MCI VAULT
- EXISTING MCI SPLICE
- EXISTING MCI ANCHOR
- EXISTING MCI GUY
- EXISTING MCI SIDEWALK ANCHOR & GUY

EXISTING UTILITIES SYMBOLS

- POWER PEDESTAL
- POWER HANDHOLE
- POWER MANHOLE
- POWER CABINET
- POWER VAULT
- POWER UNKNOWN
- POWER POLE
- STREET LIGHT POLE
- STREET LIGHT HANDHOLE
- TRAFFIC SIGNAL HANDHOLE
- TRAFFIC SIGNAL VAULT
- TRAFFIC SIGNAL MANHOLE
- TRAFFIC CABINET
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL PEDESTAL
- CATV MANHOLE
- CATV HANDHOLE
- CATV PEDESTAL
- TELECOM MANHOLE
- TELECOM HANDHOLE
- TELECOM CABINET
- POWER ANCHOR
- POWER GUY
- POWER SIDEWALK GUY
- PEDESTAL  
(UNKNOWN UTILITY)
- WATER SAMPLING STATION
- OTHER UNKNOWN
- SEWER VALVE
- SEWER VAULT
- SEWER UNKNOWN
- STORM DRAIN VAULT
- STORM ACCESS POINT
- TELECOM PEDESTAL
- TELECOM POLE
- SEWER MANHOLE
- SEWER CLEANOUT
- SEWER CATCH BASIN
- STORM CATCH BASIN
- STORM MANHOLE
- STORM DRAIN UNKNOWN
- STORM CLEANOUT
- STORM DRAIN VALVE
- WATER VALVE
- WATER METER
- WATER RESERVOIR
- WATER MANHOLE
- WATER VAULT
- WATER UNKNOWN
- WATER WELL
- MANHOLE  
(UNKNOWN UTILITY)
- WATER PUMP
- TEST VALVE
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- GAS MANHOLE
- GAS TEST POINT
- TRAFFIC LOOP DETECTOR
- TRAFFIC DETECTOR
- BOLLARD
- SIGN POST
- PARKING METER
- CULVERT
- ADA RAMP
- ADA RAMP COMPLIANCE
- SUB STATION
- TRANSIT STOP
- TREE



SITE NAME:	BH_CROSSROADS_TO_REDMOND_RIDGE_MSC	LOCATION ADDRESS:	16210 NE 90TH ST REDMOND, WA 98052	MASTEC ID NUMBER:	1807BDIO.18_UG_RED_90187

MCI METRO ACCESS TRANSMISSION SERVICES, CORP. OUTSIDE PLANT CONSTRUCTION RED UNDERGROUND FIBER INSTALLATION	

ENGINEER: D.V.

P.E. STAMP		DATE
DRAWN BY:	N.T.	
DATE:	07/06/2020	

REVISIONS		
DATE	DESCRIPTION	INITIAL

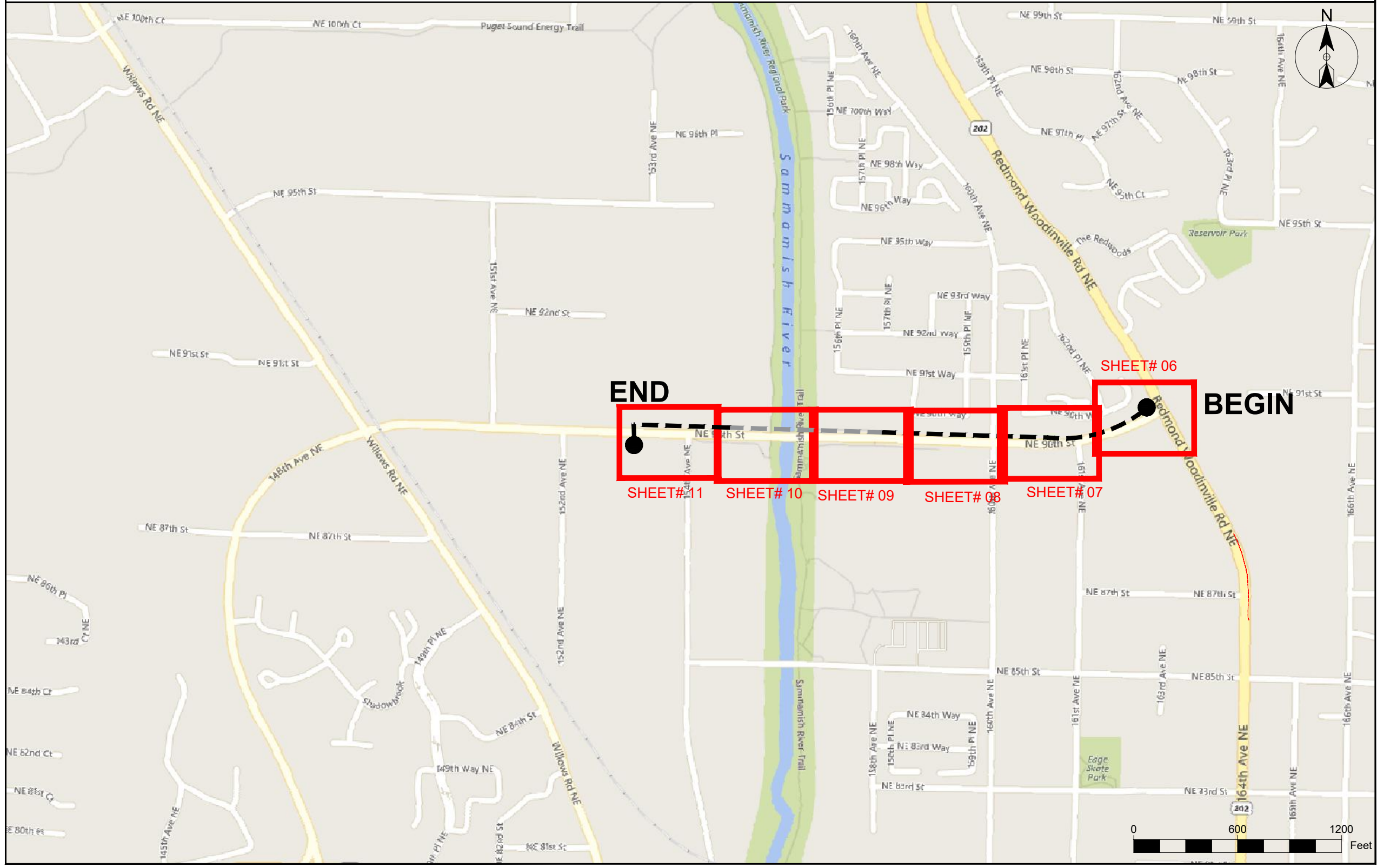
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SCALE  
HORIZ: N/A  
VERT: N/A

SHEET 04 OF 17



LOCATION OVERVIEW



SITE NAME:	BH CROSSROADS TO REDMOND RIDGE_MSC
	LOCATION ADDRESS: 16210 NE 90TH ST REDMOND, WA 98052
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SCALE  
HORIZ: N/A  
VERT: N/A  
SHEET 05 OF 17

Approval is for work within the Right-of-Way ONLY

PERMIT 1807BDIO.18\_UG\_RED\_90188

Full concrete panel replacement required at potholes, borepits, and vault locations



**City of Redmond**  
WASHINGTON

City of Redmond  
Public Works - Right-of-Way

X

Approved  
Approved with Corrections noted  
Revision Required

Signature: Yuri Bergeron  
06/14/2022 10:22:17 AM



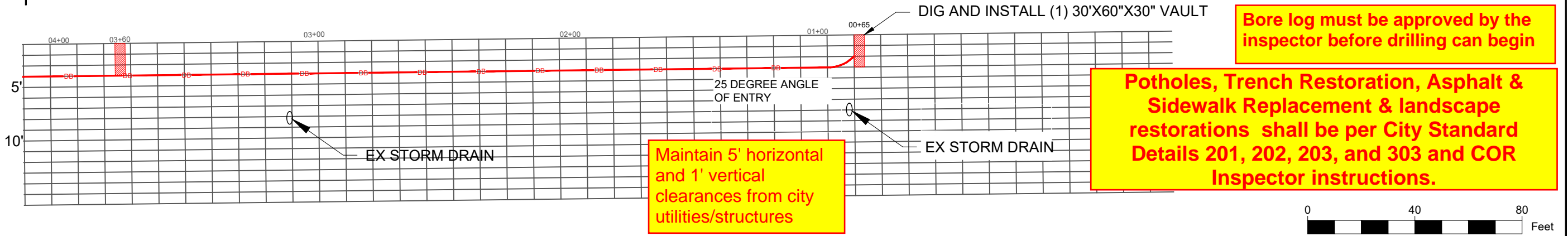
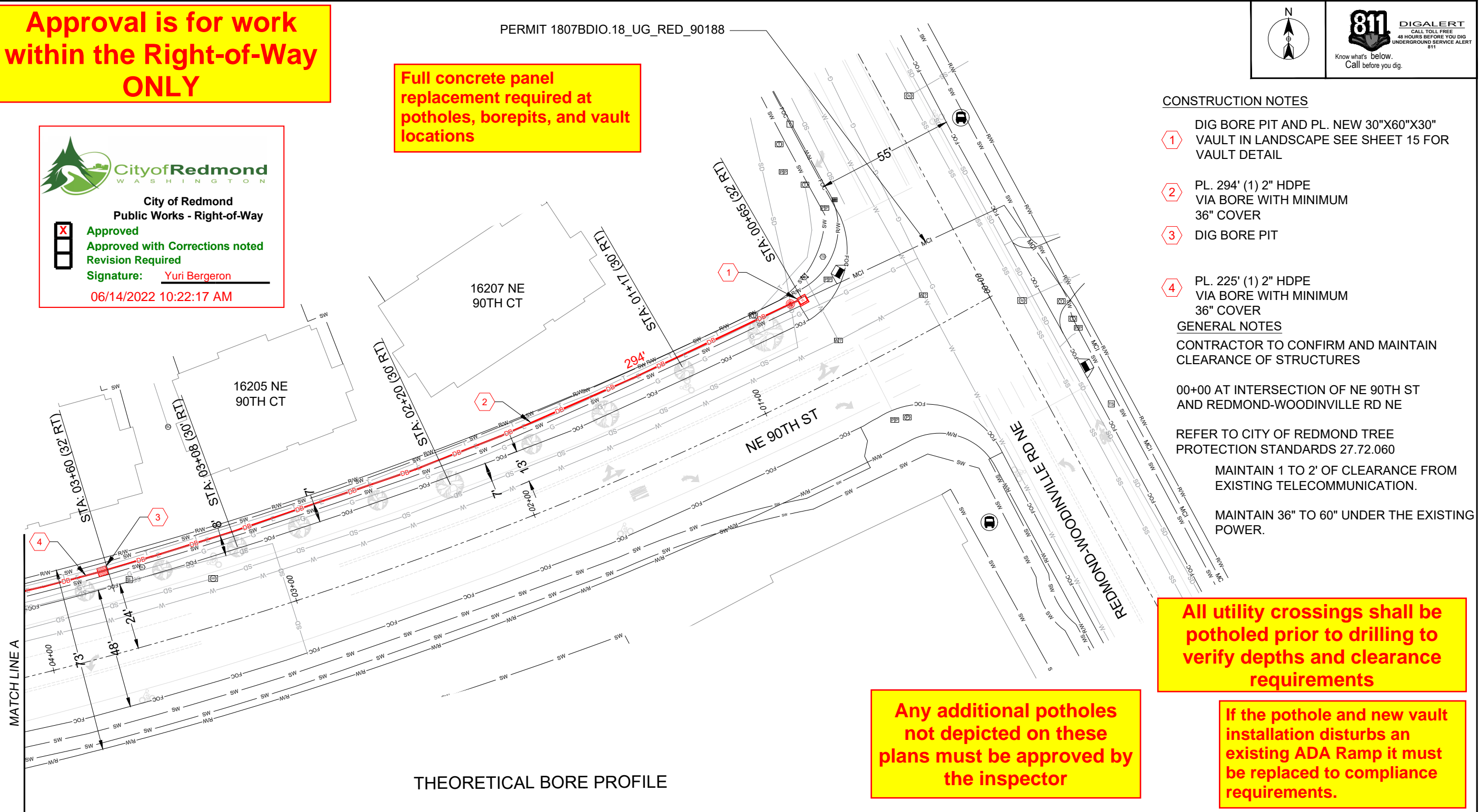
**811**  
Know what's below.  
Call before you dig.

**DIGALERT**  
CALL TOLL FREE  
48 HOURS BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT  
811



**MasTec**

**verizon**

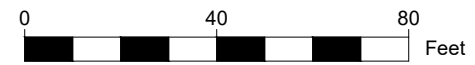


- CONSTRUCTION NOTES
- 1 DIG BORE PIT AND PL. NEW 30"x60"x30" VAULT IN LANDSCAPE SEE SHEET 15 FOR VAULT DETAIL
  - 2 PL. 294' (1) 2" HDPE VIA BORE WITH MINIMUM 36" COVER
  - 3 DIG BORE PIT
  - 4 PL. 225' (1) 2" HDPE VIA BORE WITH MINIMUM 36" COVER
- GENERAL NOTES
- CONTRACTOR TO CONFIRM AND MAINTAIN CLEARANCE OF STRUCTURES
- 00+00 AT INTERSECTION OF NE 90TH ST AND REDMOND-WOODINVILLE RD NE
- REFER TO CITY OF REDMOND TREE PROTECTION STANDARDS 27.72.060
- MAINTAIN 1 TO 2' OF CLEARANCE FROM EXISTING TELECOMMUNICATION.
- MAINTAIN 36" TO 60" UNDER THE EXISTING POWER.

- All utility crossings shall be potholed prior to drilling to verify depths and clearance requirements
- If the pothole and new vault installation disturbs an existing ADA Ramp it must be replaced to compliance requirements.
- Bore log must be approved by the inspector before drilling can begin

Maintain 5' horizontal and 1' vertical clearances from city utilities/structures

Potholes, Trench Restoration, Asphalt & Sidewalk Replacement & landscape restorations shall be per City Standard Details 201, 202, 203, and 303 and COR Inspector instructions.



SITE NAME:  
BH CROSSROADS TO  
REDMOND RIDGE\_MSC

LOCATION ADDRESS:  
16210 NE 90TH ST  
REDMOND, WA 98052

MASDEC ID NUMBER:  
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**MCI METRO**  
ACCESS TRANSMISSION SERVICES, CORP.

OUTSIDE PLANT CONSTRUCTION  
RED UNDERGROUND FIBER INSTALLATION

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SCALE  
HORIZ: SEE SCALE  
VERT: 1:10

SHEET 06 OF 17



# CONSTRUCTION NOTES

- 1 DIG BORE PIT
- 2 PL. 350' (1) 2" HDPE VIA BORE WITH MINIMUM 36" COVER
- 3 PL. 37' (1) 2" HDPE VIA TRENCH WITH MINIMUM 36" COVER

# GENERAL NOTES

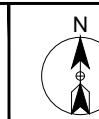
CONTRACTOR TO CONFIRM AND MAINTAIN CLEARANCE OF STRUCTURES

00+00 AT INTERSECTION OF NE 90TH ST AND REDMOND-WOODINVILLE RD NE

REFER TO CITY OF REDMOND TREE PROTECTION STANDARDS 27.72.060

MAINTAIN 1 TO 2' OF CLEARANCE FROM EXISTING TELECOMMUNICATION.

MAINTAIN 36" TO 60" UNDER THE EXISTING POWER.



DIGALERT  
CALL TOLL FREE  
48 HOURS BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT  
811



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SCALE  
HORIZ: SEE SCALE  
VERT: 1:10  
SHEET 07 OF 17

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Full concrete panel replacement required at potholes, borepits, and vault locations

Maintain 5' horizontal and 1' vertical clearances from city utilities/structures

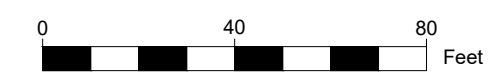
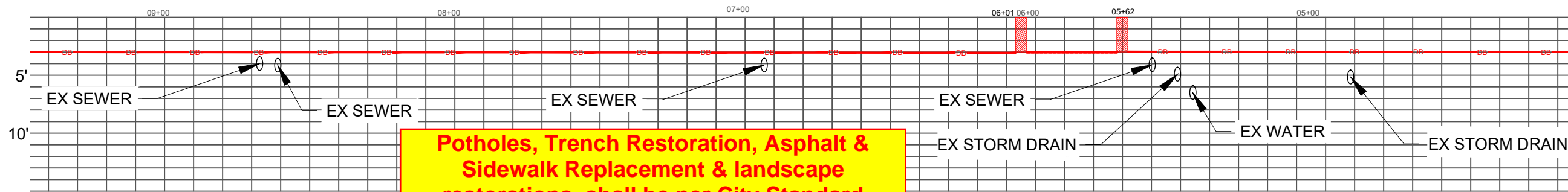
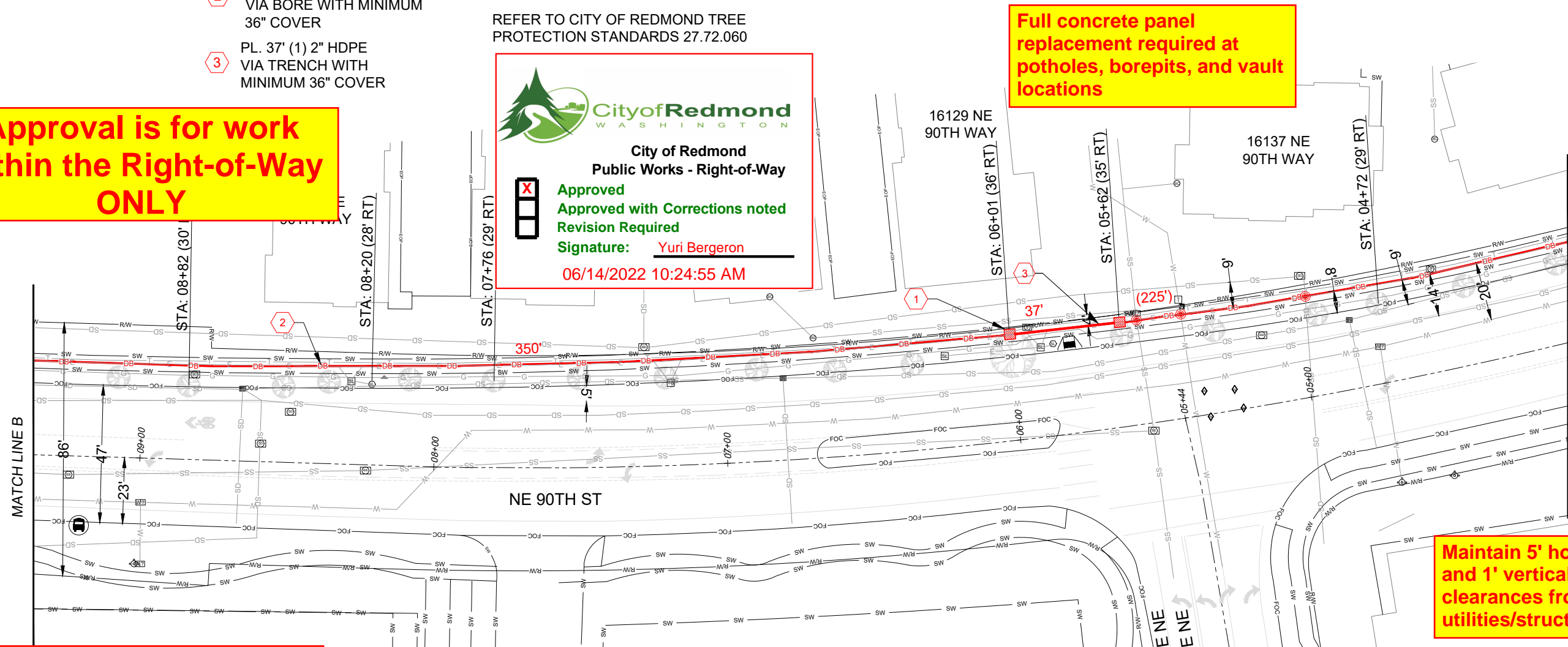
Any additional potholes not depicted on these plans must be approved by the inspector

Bore log must be approved by the inspector before drilling can begin

If the pothole and new vault installation disturbs an existing ADA Ramp it must be replaced to compliance requirements.

All utility crossings shall be potholed prior to drilling to verify depths and clearance requirements

Potholes, Trench Restoration, Asphalt & Sidewalk Replacement & landscape restorations shall be per City Standard Details 201, 202, 203, and 303 and COR Inspector instructions.





City of Redmond  
Public Works - Right-of-Way

**Approved**  
**Approved with Corrections noted**  
**Revision Required**  
Signature: Yuri Bergeron  
06/14/2022 10:25:57 AM

**Approval is for work  
within the Right-of-Way  
ONLY**

#### CONSTRUCTION NOTES

- 1 DIG BORE PIT AND PL. NEW 30"X60"X30" VAULT IN LANDSCAPE SEE SHEET 15 FOR VAULT DETAIL
- 2 PL. 300' (1) 2" HDPE VIA BORE WITH MINIMUM 36" COVER
- 3 DIG BORE PIT

#### GENERAL NOTES

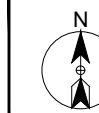
CONTRACTOR TO CONFIRM AND MAINTAIN CLEARANCE OF STRUCTURES

00+00 AT INTERSECTION OF NE 90TH ST AND REDMOND-WOODINVILLE RD NE

REFER TO CITY OF REDMOND TREE PROTECTION STANDARDS 27.72.060

MAINTAIN 1 TO 2' OF CLEARANCE FROM EXISTING TELECOMMUNICATION.

MAINTAIN 36" TO 60" UNDER THE EXISTING POWER.



DIGALERT  
CALL TOLL FREE  
48 HOURS BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT  
811

**SEFNCO**  
COMMUNICATIONS

**MasTec**

**verizon**

**SITE NAME:** BH CROSSROADS TO REDMOND RIDGE MSC  
**LOCATION ADDRESS:** 16210 NE 90TH ST, REDMOND, WA 98052  
**MASITEC ID NUMBER:** 1807BDIO.18\_UG\_RED\_90187

**MCI METRO**  
ACCESS TRANSMISSION SERVICES, CORP.  
**OUTSIDE PLANT CONSTRUCTION**  
RED UNDERGROUND FIBER INSTALLATION

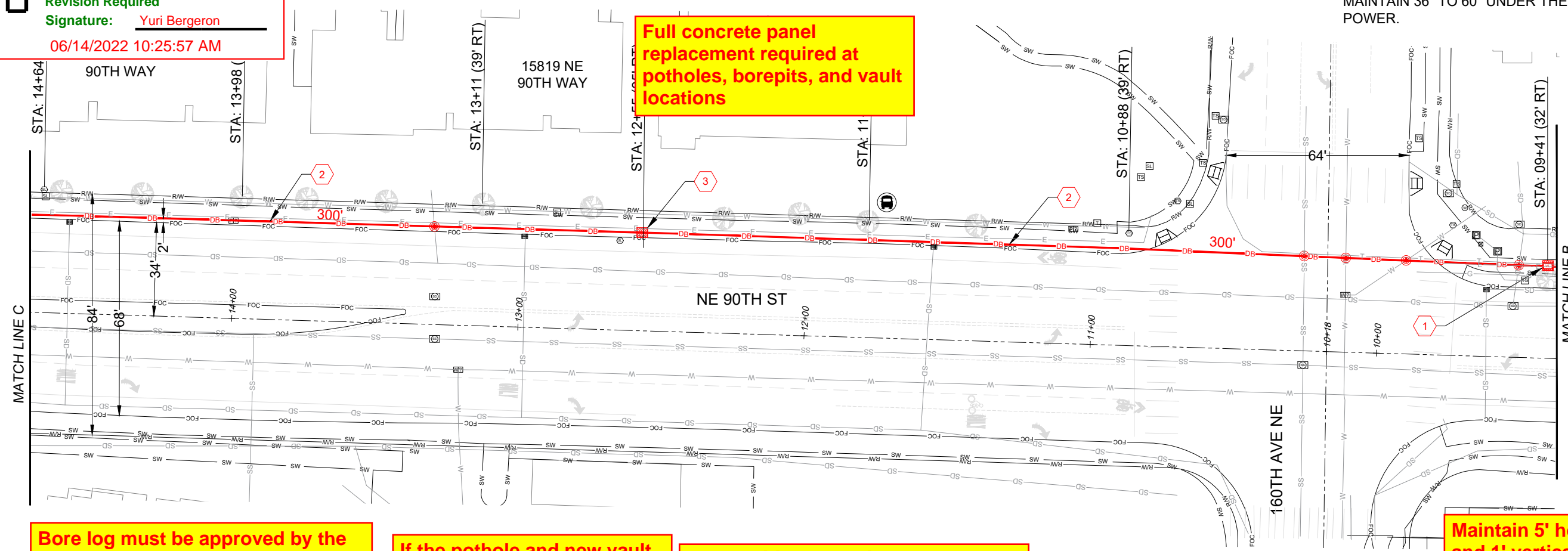
**ENGINEER:** D.V.

**P.E. STAMP** DATE  
**DRAWN BY:** N.T.  
**DATE:** 07/06/2020

REVISIONS		
DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATIONS SERVICES, INC. BOTH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

**SCALE** HORZ: SEE SCALE  
VERT: 1:10  
**SHEET** 08 OF 17

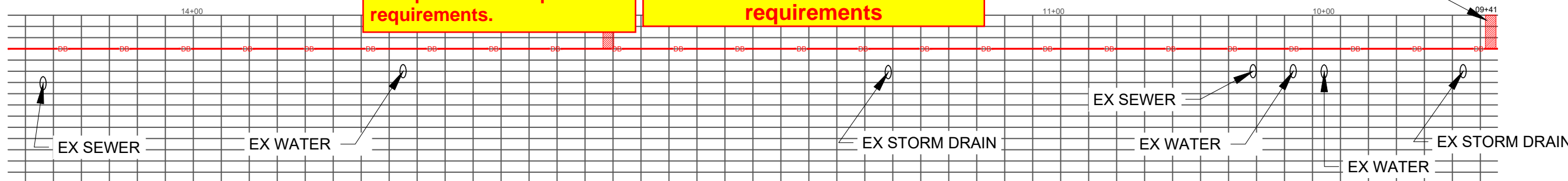


Bore log must be approved by the inspector before drilling can begin

If the pothole and new vault installation disturbs an existing ADA Ramp it must be replaced to compliance requirements.

All utility crossings shall be potholed prior to drilling to verify depths and clearance requirements

Maintain 5' horizontal and 1' vertical clearances from city utilities/structures



Potholes, Trench Restoration, Asphalt & Sidewalk Replacement & landscape restorations shall be per City Standard Details 201, 202, 203, and 303 and COR Inspector instructions.

THEORETICAL BORE PROFILE

Any additional potholes not depicted on these plans must be approved by the inspector





CONSTRUCTION NOTES

- 1

DIG BORE PIT AND PL. NEW TA-25 VAULT IN LANDSCAPE SEE SHEET 16 FOR VAULT DETAIL. REPLACE THE CITY OWNED HANDHOLE.
- 2

PL. 183' (1) 2" HDPE WITH MAXELL VIA BORE WITH MINIMUM 36" COVER
- 3

EXISTING CITY OF REDMOND CONDUIT. CONTRACTOR TO VERIFY CORRECT CONDUIT PRIOR TO CONSTRUCTION. PULL FIBER CABLE THROUGH. INSTALL (2) PACKS (6 SLEEVES) OF MAXCELL IN ONE 4" CITY OF REDMOND CONDUIT - MCI SHALL HAVE THE USE OF 2 SLEEVES.
- 4

DIG BORE PIT AND PL. NEW 36"X60"X30" VAULT IN LANDSCAPE SEE SHEET 15 FOR VAULT DETAIL
- 5

PROPOSED CITY OF REDMOND (2) 4" CONDUIT
- 6

PROPOSED CITY OF REDMOND TA-25 VAULT



City of Redmond

WASHINGTON

City of Redmond

Public Works - Right-of-Way

X

Approved

Approved with Corrections noted

Revision Required

Signature: Yuri Bergeron

06/14/2022 10:44:32 AM


The city is in talks to arrange an agreement for utilizing city conduit crossing NE 90 St. This approval is for boring only at this time due to incoming roadway improvements this summer.

GENERAL NOTES

- CONTRACTOR TO CONFIRM AND MAINTAIN CLEARANCE OF STRUCTURES
- 00+00 AT INTERSECTION OF NE 90TH ST AND REDMOND-WOODINVILLE RD NE
- REFER TO CITY OF REDMOND TREE PROTECTION STANDARDS 27.72.060
- MAINTAIN 1 TO 2' OF CLEARANCE FROM EXISTING TELECOMMUNICATION.
- MAINTAIN 36" TO 60" UNDER THE EXISTING POWER.



N



811

Know what's below. Call before you dig.

DIGALERT

CALL TOLL FREE

48 HOURS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT

811

Full concrete panel replacement required at potholes, borepits, and vault locations

Approval is for work within the Right-of-Way ONLY

The plan shows NE 90TH ST running horizontally. Stationing is marked from 19+00 on the left to 15+00 on the right. Key features include: STA: 18+02 (33' RT), STA: 17+39 (32' RT), STA: 16+92 (44' RT), STA: 16+42 (41' RT), STA: 15+57 (40' RT), and STA: 14+92 (41' RT). Callouts 1 through 6 indicate specific construction points. A red line represents the proposed boring path. Existing utilities shown include EX WATER, EX SEWER, and EX STORM DRAIN. A 'THEORETICAL BORE PATH' is indicated at the bottom. Match lines D and C are shown at the ends.

Bore log must be approved by the inspector before drilling can begin


If the pothole and new vault installation disturbs an existing ADA Ramp it must be replaced to compliance requirements.

All utility crossings shall be potholed prior to drilling to verify depths and clearance requirements

Maintain 5' horizontal and 1' vertical clearances from city utilities/structures


Potholes, Trench Restoration, Asphalt & Sidewalk Replacement & landscape restorations shall be per City Standard Details 201, 202, 203, and 303 and COR Inspector instructions.

Any additional potholes not depicted on these plans must be approved by the inspector



SEFNCO

COMMUNICATIONS



MasTec



verizon

SITE NAME:

BH CROSSROADS TO REDMOND\_RIDGE\_MSC

LOCATION ADDRESS:

16210 NE 90TH ST  
REDMOND, WA 98052

MASTEID NUMBER:

1807BDIO.18\_UG\_RED\_90187

MCI METRO

ACCESS TRANSMISSION SERVICES, CORP.

OUTSIDE PLANT CONSTRUCTION

RED UNDERGROUND FIBER INSTALLATION

ENGINEER:

D.V.

P.E. STAMP

DATE

DRAWN BY:

N.T.

DATE:

07/06/2020

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATION SERVICES, INC. BOTH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZ: SEE SCALE

VERT: 1:10

SHEET

09

OF

17

The city is in talks to arrange an agreement for utilizing city conduit crossing NE 90 St. This current review is for boring only at this time due to incoming roadway improvements this summer.

CONSTRUCTION NOTES

- 1 EXISTING CITY OF REDMOND CONDUIT. CONTRACTOR TO VERIFY CORRECT CONDUIT PRIOR TO CONSTRUCTION. PULL FIBER CABLE THROUGH.

GENERAL NOTES

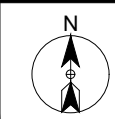
CONTRACTOR TO CONFIRM AND MAINTAIN CLEARANCE OF STRUCTURES

00+00 AT INTERSECTION OF NE 90TH ST AND REDMOND-WOODINVILLE RD NE

REFER TO CITY OF REDMOND TREE PROTECTION STANDARDS 27.72.060

MAINTAIN 1 TO 2' OF CLEARANCE FROM EXISTING TELECOMMUNICATION.

MAINTAIN 36" TO 60" UNDER THE EXISTING POWER.



DIGALERT  
CALL TOLL FREE  
48 HOURS BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT  
811



SITE NAME:

BH CROSSROADS TO  
REDMOND\_RIDGE\_MSC

LOCATION ADDRESS:

16210 NE 90TH ST  
REDMOND, WA 98052

MASSTEC ID NUMBER:

1807BDIO.18\_UG\_RED\_90187

MCI METRO

ACCESS TRANSMISSION SERVICES, CORP.

OUTSIDE PLANT CONSTRUCTION

RED UNDERGROUND FIBER INSTALLATION

ENGINEER: D.V.

P.E. STAMP

DATE

DRAWN BY: N.T.

DATE: 07/06/2020

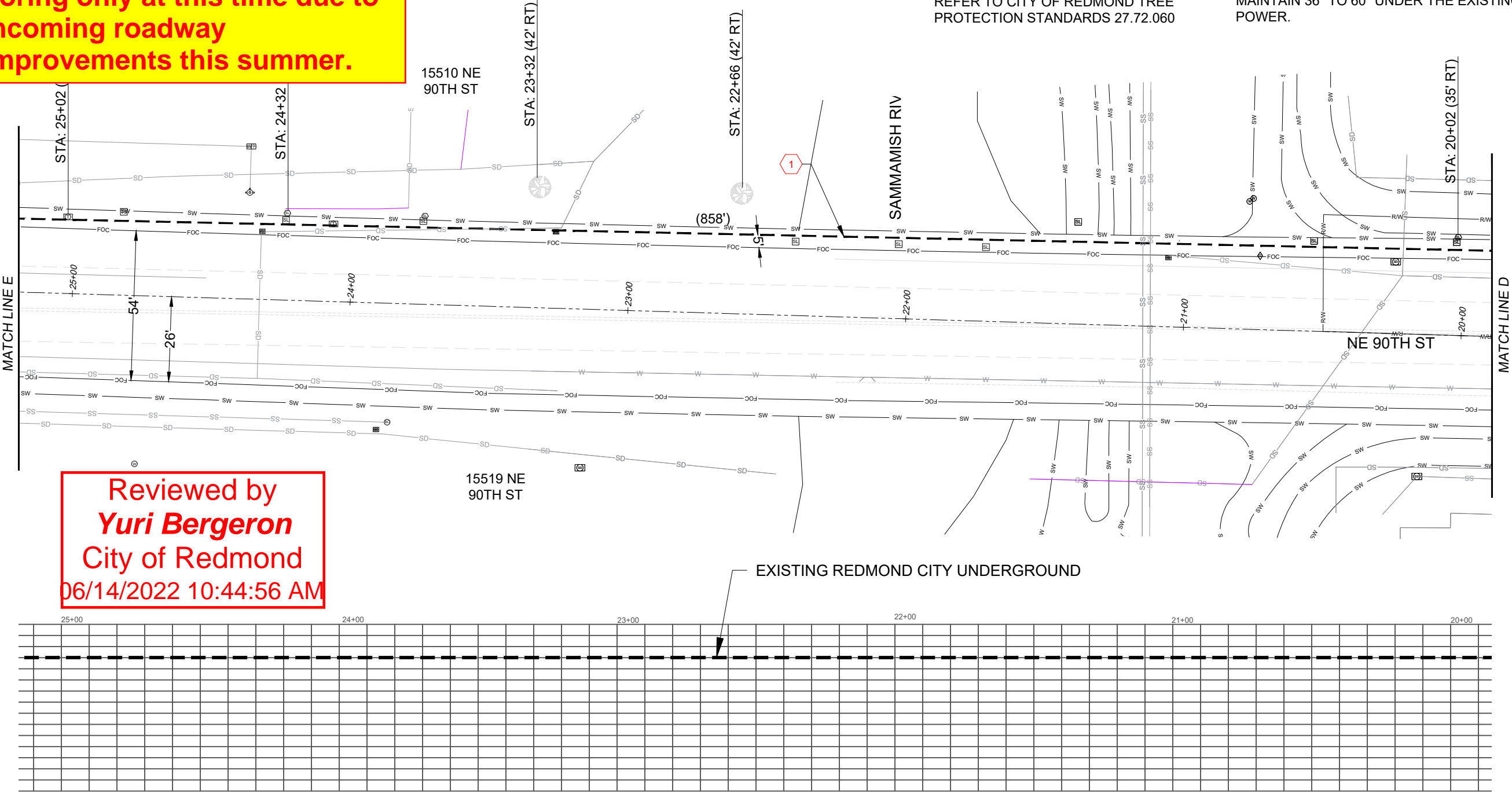
REVISIONS

DATE	DESCRIPTION	INITIAL

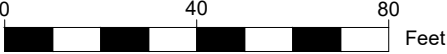
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SCALE  
HORIZ: SEE SCALE  
VERT: 1:10

SHEET 10 OF 17



Reviewed by  
**Yuri Bergeron**  
City of Redmond  
06/14/2022 10:44:56 AM



1. DIG BORE PIT AND PL. NEW TA-25 VAULT IN LANDSCAPE  
SEE SHEET 16 FOR VAULT DETAIL.  
REPLACE THE CITY OWNED HANDHOLE.
2. DIG BORE PIT AND PL. NEW 4'X4'X4' COMMON MANHOLE IN  
ROAD SURFACE SEE SHEET 17 FOR VAULT DETAIL.
3. PL. 377' (1) 2" HDPE  
VIA BORE WITH MINIMUM  
36" COVER
4. DIG BORE PIT

**Approval is for**

- 5 PL. 65' (1) 2" HDPE  
VIA BORE WITH MINIMUM  
36" COVER
- 6 DIG BORE PIT
- 7 EXISTING XO MH . CONTRACTOR TO VERIFY  
CORRECT MH PRIOR TO CONSTRUCTION.
- 8 PL. 27' (2) 4" HDPE WITH MAXELL  
VIA BORE WITH MINIMUM 36"  
COVER; (1) 2" HDPE

CONTRACTOR TO CONFIRM AND MAINTAIN  
CLEARANCE OF STRUCTURES

REFER TO CITY OF REDMOND TREE  
PROTECTION STANDARDS 27.72.060

MAINTAIN 36" TO 60" UNDER THE EXISTING POWER.



<b>SITE NAME:</b>	BH CROSSROADS TO REDMOND_RIDGE_MSC
<b>LOCATION ADDRESS:</b>	16210 NE 90TH ST REDMOND, WA 98052
<b>MASTEC ID NUMBER:</b>	1807BDIO.18_UG_RED.

**MCI METRO**  
ACCESS TRANSMISSION SERVICES, CORP.  
**OUTSIDE PLANT CONSTRUCTION**  
**RED UNDERGROUND FIBER INSTALLATION**

ENGINEER: D.V.

DATE	
P.E. STAMP	
DRAWN BY:	N.T.
DATE:	07/06/2020

[illegible]

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SCALE	HORZ: SEE SCALE
	VERT: 1:10

SHEET 11 OF 17

**Approval is for work  
within the Right-of-Way  
ONLY**

**Maintain 5' horizontal and 1' vertical clearances from city utilities/structures**

**All utility crossings shall be potholed prior to drilling to verify depths and clearance requirements**

## DIG AND INSTALL (1) TA-25 VAULT

DIG AND INSTALL (1)  
4'X4'X4' MANHOLE

— EXISTING REDMOND  
CITY UNDERGROUND

PL NEW 4" HDPE

### EX STORM DRAIN

EX SEWER

EX STORM DRAIN

EX WATER

EX WATER

EX SEWER


FY WATER

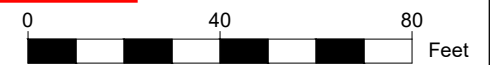
EX WATER

**Potholes, Trench Restoration, Asphalt & Sidewalk Replacement & landscape restorations shall be per City Standard Details 201, 202, 203, and 303 and COR Inspector instructions.**

**Any additional potholes not depicted on these plans must be approved by the inspector**

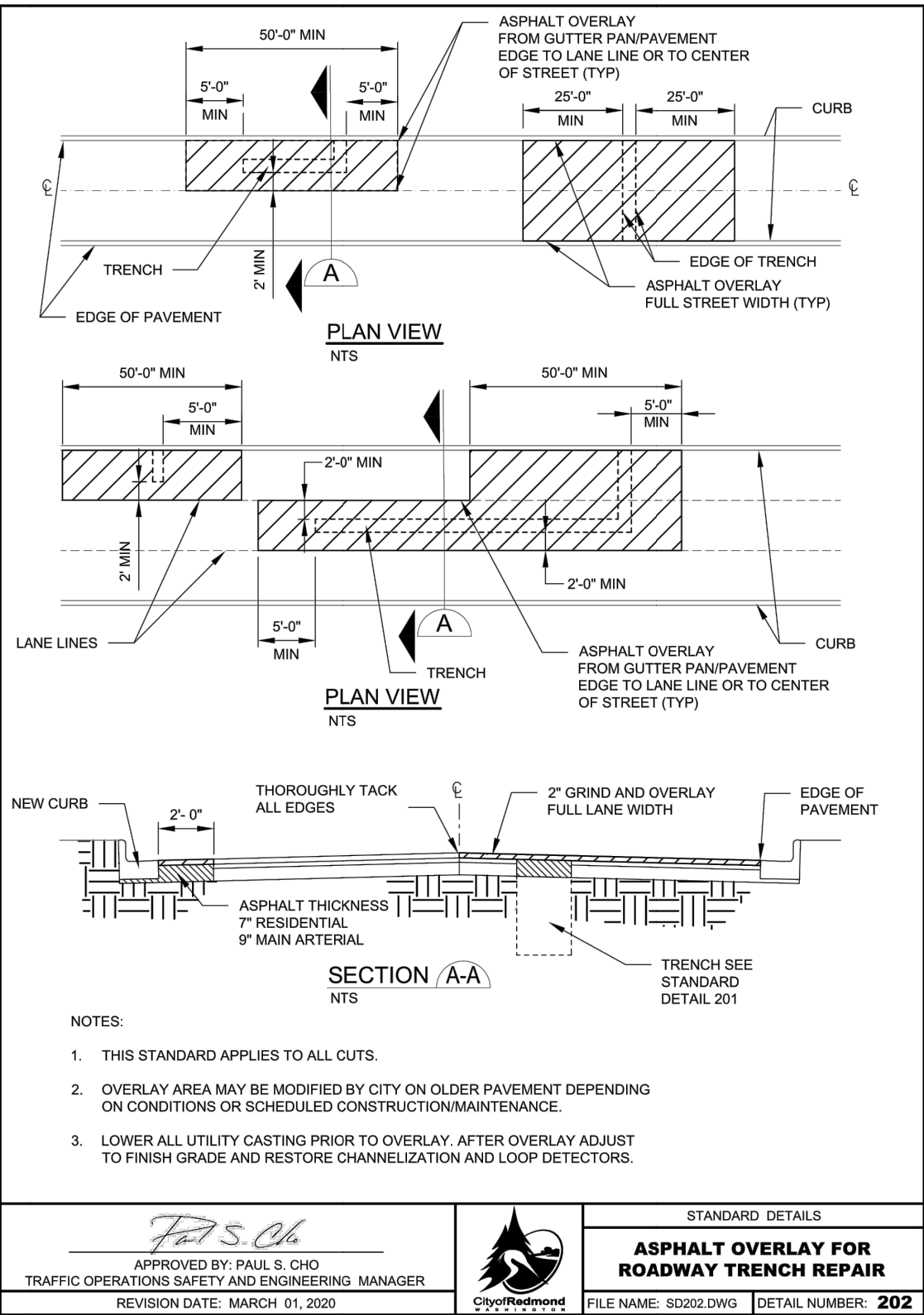
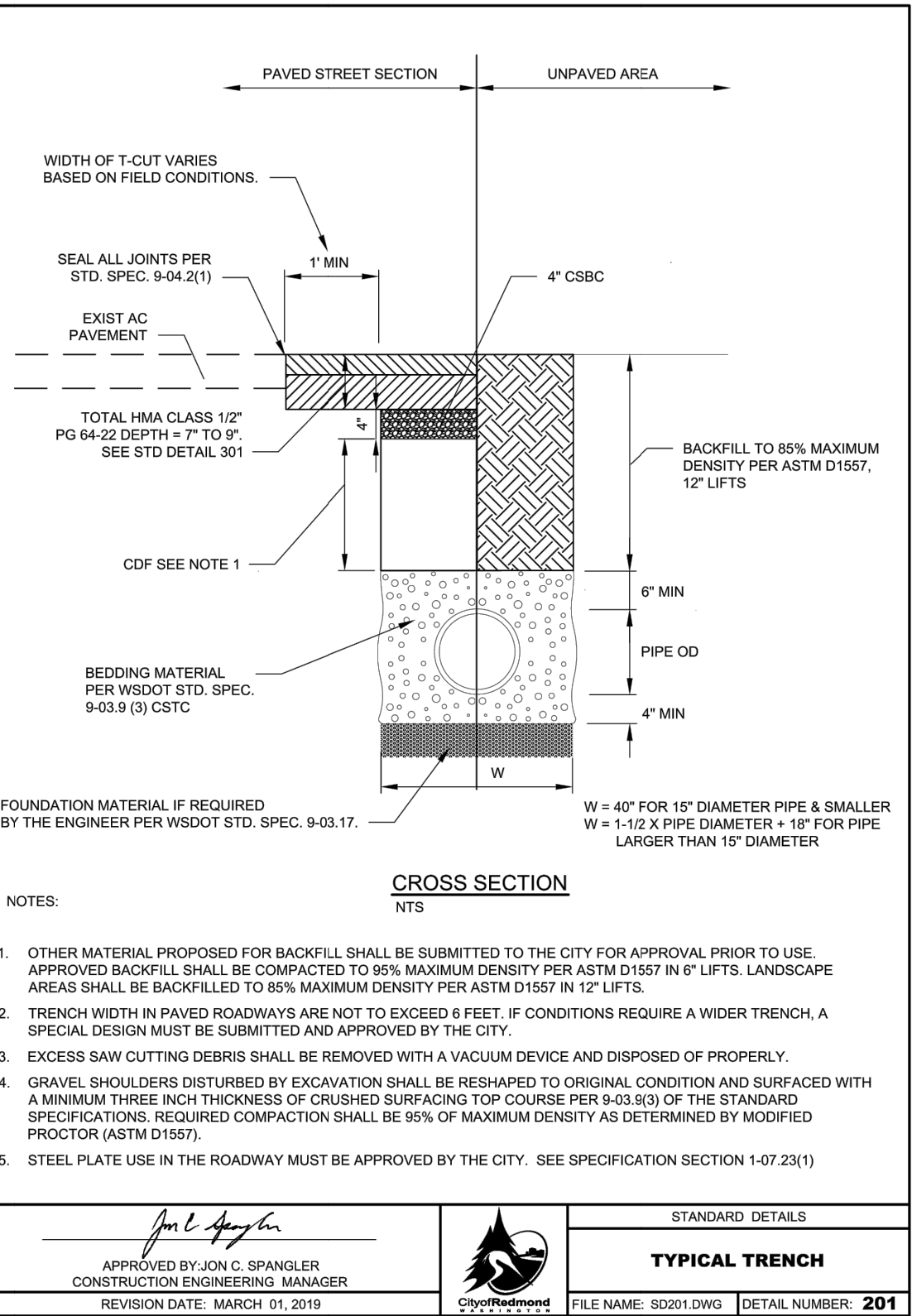
**Full concrete panel replacement required at potholes, borepits, and vault locations**

**Bore log must be approved by the inspector before drilling can begin**





DETAILS



SEFNCO  
COMMUNICATIONS

MasTec

verizon

SITE NAME:  
BH CROSSROADS TO  
REDMOND RIDGE\_MSC

LOCATION ADDRESS:  
16210 NE 90TH ST  
REDMOND, WA 98052

MASTEC ID NUMBER:  
1807BDIO.18\_UG\_RED\_90187

MCI METRO  
ACCESS TRANSMISSION SERVICES, CORP.

OUTSIDE PLANT CONSTRUCTION

RED UNDERGROUND FIBER INSTALLATION

ENGINEER: D.V.

P.E. STAMP

DATE

DRAWN BY: N.T.

DATE: 07/06/2020

REVISIONS

DATE	DESCRIPTION	INITIAL

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SCALE

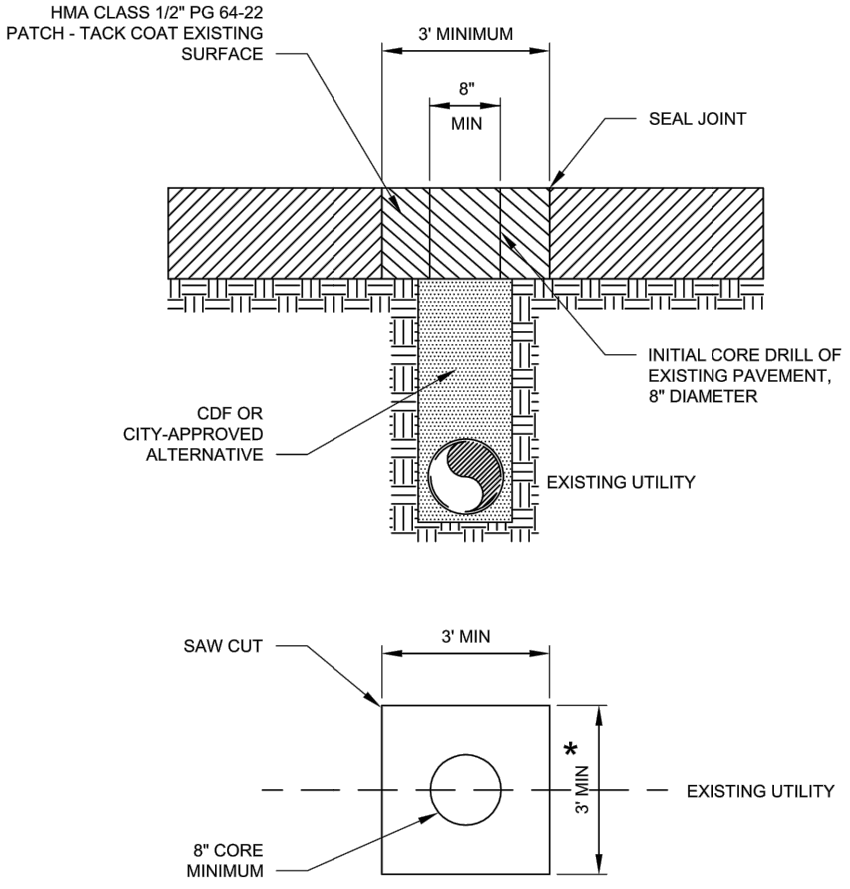
HORZ: N/A  
VERT: N/A

SHEET

12 OF 17



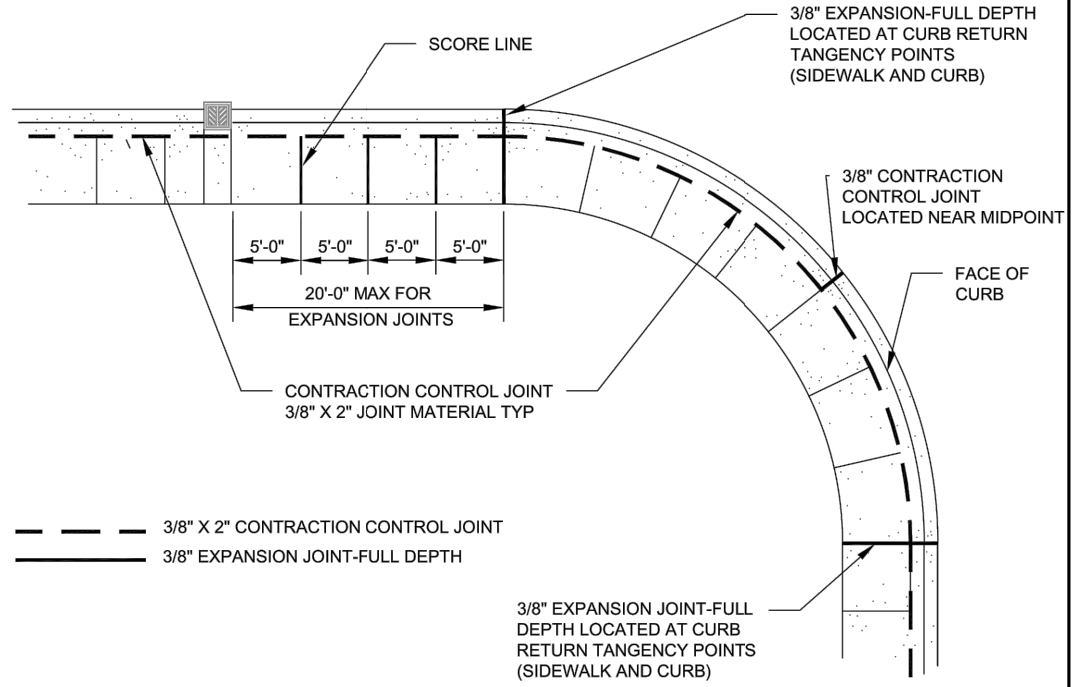
DETAILS



- NOTES:
- 1. THE EXISTING PAVEMENT SHALL BE CUT FULL DEPTH WITH A MINIMUM EIGHT INCH DIAMETER CORE DRILL. THE SUB-BASE MATERIAL SHALL BE REMOVED USING A VACUUM EXCAVATOR, KEEPING THE EXCAVATION AS MINIMAL AS POSSIBLE.
  - 2. BACKFILL THE EXCAVATION WITH CONTROLLED DENSITY FILL (CDF) OR CITY-APPROVED ALTERNATIVE.
  - 3. REPAIR THE PAVEMENT SECTION WITH HMA CLASS 1/2" PG 64-22 AND SEAL THE JOINT. ASPHALT DEPTHS SHOULD BE 7" ON LOCAL ACCESS STREETS, 9" ON ARTERIALS OR MATCH EXISTING, WHICHEVER IS GREATER.
  - 4. FOR MORE THAN 3 CORES WITHIN 50 FEET EDGE TO EDGE OF EACH OTHER IN ANY DIRECTION, OR 12 OR MORE CORES WITHIN A BLOCK, PAVEMENT REPAIR WILL BE CONSIDERED A TRENCH AND SUBJECT TO THE REPAIR DETAIL IN SD202.
- \* EXTEND TO EDGE OF GUTTER PAN OR NEAREST LANE LINE AS DIRECTED BY CITY INSPECTOR.

APPROVED BY: PAUL S. CHO  
TRAFFIC OPERATIONS SAFETY AND ENGINEERING MANAGER  
REVISION DATE: MARCH 01, 2020

STANDARD DETAILS  
**PAVEMENT RESTORATION FOR WINDOW CUTS**  
FILE NAME: SD203.DWG | DETAIL NUMBER: **203**



PLAN VIEW  
NTS

- NOTES:
- 1. SCORE LINE SHALL BE 1/4 INCH DEEP V-GROVE.
  - 2. JOINTS SHALL MATCH THE CURB.
  - 3. SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 8-14 OF THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE STANDARD DETAILS
  - 4. SIDEWALK SHALL BE 6 INCH MINIMUM THICKNESS WHERE ADJACENT TO ROLLED CURB SECTION, OTHERWISE MINIMUM THICKNESS SHALL BE 4 INCH.
  - 5. THE CONCRETE MIX FOR SIDEWALKS SHALL BE AIR ENTRAINED CONCRETE CLASS 3000 IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 6-02.
  - 6. PLACING AND FINISHING OF SIDEWALKS SHALL BE PER SECTION 8-14 OF THE STANDARD SPECIFICATION. THE SURFACES ARE TO BE STRUCK OFF, TROWELED, LIGHTLY BRUSHED IN TRANSVERSE DIRECTION, THEN JOINED AND EDGED. THE FINISH REQUIREMENTS INCLUDE:
    - A. JOINTS SHALL BE TOOLED WITH 1/4 INCH RADIUS EDGER.
    - B. SIDEWALK EDGES TOOLED WITH A 1/2 INCH EDGER.
    - C. WHEN REPLACING SECTIONS OF EXISTING SIDEWALK OR WHEN NEW SIDEWALK ADJOINS EXISTING, NEW CONCRETE SHALL BE FINISHED TO MATCH THE EXISTING CONCRETE OR AS DIRECTED BY THE CITY ENGINEER. COLORING AGENT SHALL BE USED IN NEW CONCRETE TO MATCH EXISTING.
    - D. WHEN CASTINGS ARE LOCATED IN THE SIDEWALK, JOINTS SHALL BE INSTALLED TO CONTROL CRACKING. REBAR SHALL BE INSTALLED AS DIRECTED BY THE CITY TO STRENGTHEN SIDEWALK TO PREVENT CRACKING AT CORNERS OF CASTINGS AND OTHER BLOCKOUTS.

APPROVED BY: DONALD CAIRNS  
TRANSPORTATION PLANNING AND ENGINEERING MANAGER  
REVISION DATE: MARCH 01, 2018

STANDARD DETAILS  
**CURB AND SIDEWALK JOINTS**  
FILE NAME: SD303.DWG | DETAIL NUMBER: **303**

**SITE NAME:** BH CROSSROADS TO REDMOND\_RIDGE\_MSC

**LOCATION ADDRESS:** 16210 NE 90TH ST  
REDMOND, WA 98052

**MASTEC ID NUMBER:** 1807BDIO.18\_UG\_RED\_90187

**MCI METRO**  
ACCESS TRANSMISSION SERVICES, CORP.

**OUTSIDE PLANT CONSTRUCTION**

RED UNDERGROUND FIBER INSTALLATION

**ENGINEER:** D.V.

**P.E. STAMP** DATE

**DRAWN BY:** N.T.

**DATE:** 07/06/2020

REVISIONS		
DATE	DESCRIPTION	INITIAL

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**SCALE** **HORZ:** N/A  
**VERT:** N/A

**SHEET** 13 **OF** 17

DETAILS



SITE NAME:	BH CROSSROADS TO REDMOND RIDGE_MSC	LOCATION ADDRESS:	16210 NE 90TH ST REDMOND, WA 98052	MASTEC ID NUMBER:	1807BDIO.18_UG_RED_90187

MCI METRO	
ACCESS TRANSMISSION SERVICES, CORP.	
OUTSIDE PLANT CONSTRUCTION	
RED UNDERGROUND FIBER INSTALLATION	

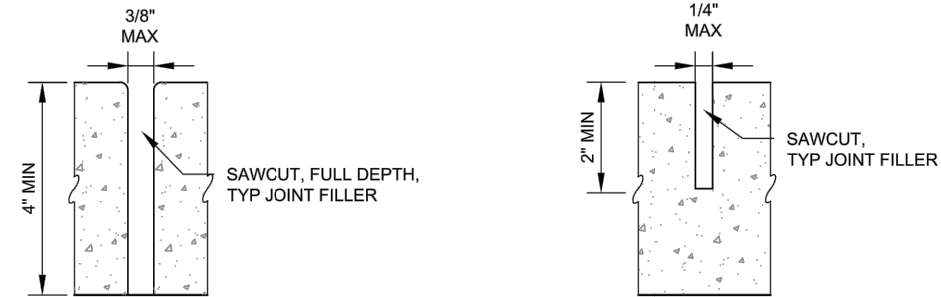
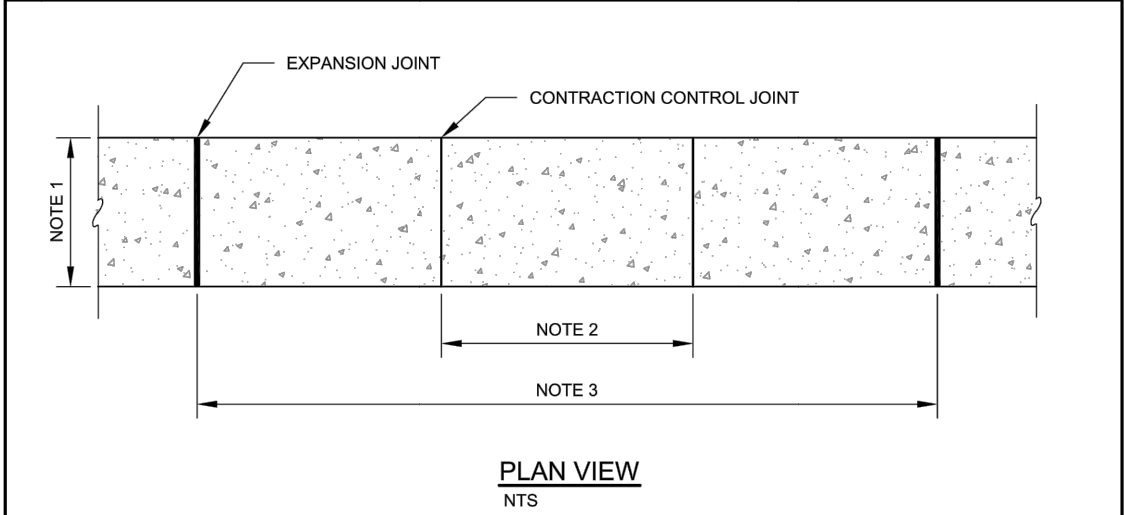
ENGINEER: D.V.

P.E. STAMP		DATE
DRAWN BY: N.T.		
DATE:		07/06/2020

REVISIONS		
DATE	DESCRIPTION	INITIAL

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SCALE	HORZ:	N/A
	VERT:	N/A
SHEET	14	OF 17



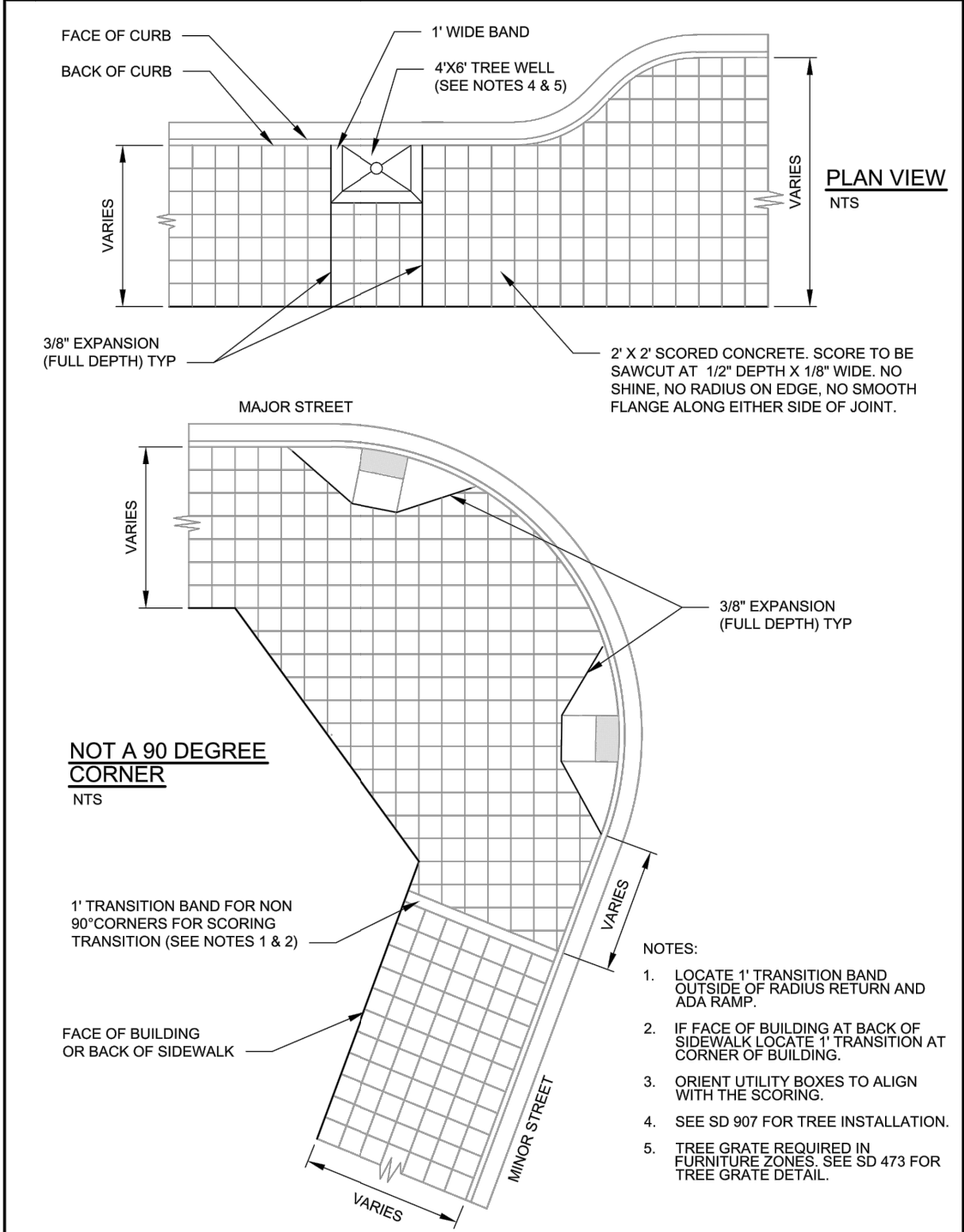
EXPANSION JOINT SECTION NTS

CONTRACTION CONTROL JOINT SECTION NTS

- NOTES:
- 1. SHARED USE PATH WIDTH SHALL BE IN ACCORDANCE WITH DESIGN MANUAL M-22-01.09 CHAPTER 1515 AS DIRECTED BY CITY ENGINEER. MINIMUM VERTICAL CLEARANCE OF PATH SHALL BE 12 FEET.
  - 2. CONTRACTION JOINTS SHALL BE AT 5-FOOT INTERVALS OR INTERVALS EQUAL TO SHARED USE PATH WIDTH AS DIRECTED BY CITY ENGINEER.
  - 3. EXPANSION JOINTS SHALL BE INSTALLED AT 200-FOOT MAXIMUM INTERVALS AS DIRECTED BY CITY ENGINEER. EXPANSION JOINTS SHALL ALSO BE INSTALLED AT CURB RAMPS AND FIXED STRUCTURES AS PER STANDARD SPECIFICATIONS SECTION 8-14.
  - 4. LONGITUDINAL JOINTS ARE NOT ALLOWED.
  - 5. IF SHARED USE PATH IS ADJACENT TO CURB, JOINTS SHALL MATCH THE CURB.
  - 6. SHARED USE PATH SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 8-14 OF STANDARD SPECIFICATIONS, EXCEPT THAT ALL JOINTS SHALL BE SAWCUT.

APPROVED BY: DONALD CAIRNS  
TRANSPORTATION PLANNING AND ENGINEERING MANAGER  
REVISION DATE: MARCH 01, 2018

STANDARD DETAILS  
**CONCRETE SHARED USE PATH**  
FILE NAME: SD303A.DWG | DETAIL NUMBER: **303A**



APPROVED BY: DONALD CAIRNS  
TRANSPORTATION PLANNING AND ENGINEERING MANAGER  
REVISION DATE: MARCH 01, 2020

STANDARD DETAILS  
**DOWNTOWN AND OVERLAKE PEDESTRIAN SIDEWALK**  
FILE NAME: SD303B.DWG | DETAIL NUMBER: **303B**

30"X60"X30" VAULT TYPICAL OLDCASTLE

MATERIAL PROPERTIES

THE FOLLOWING MATERIAL PROPERTIES FOR POLYMER CONCRETE PRODUCTS WERE ESTABLISHED THROUGH INDEPENDENT THIRD PARTY TESTING:

COMPRESSIVE STRENGTH	ASTM C 579	> 12,500 PSI
FLEXURAL STRENGTH (REINFORCED)	ASTM D 790	> 7,500 PSI
FLEXURAL STRENGTH (NON-REINFORCED)	ASTM D 790	> 3,000 PSI
MODULUS OF RUPTURE	ASTM C 99	≥ 3,000 PSI
WATER ABSORPTION	ASTM C 97	≤ 0.25%
IMPACT RESISTANCE	ASTM D 2444	> 70 FT-LB
FRICTION COEFFICIENT	ASTM C 1028	> 0.5
CHEMICAL RESISTANCE	ASTM D 543	RESISTANT, > 75% RETENTION
		PHYSICAL PROPERTIES

THIS UNIT (BODY & LID) MEETS OR EXCEEDS THE REQUIREMENTS OF ANSI/SCTE 77-2010, TIER-22 PERFORMANCE (DESIGN LOAD: 22,000 LBS / TEST LOAD: 45,000 LBS)

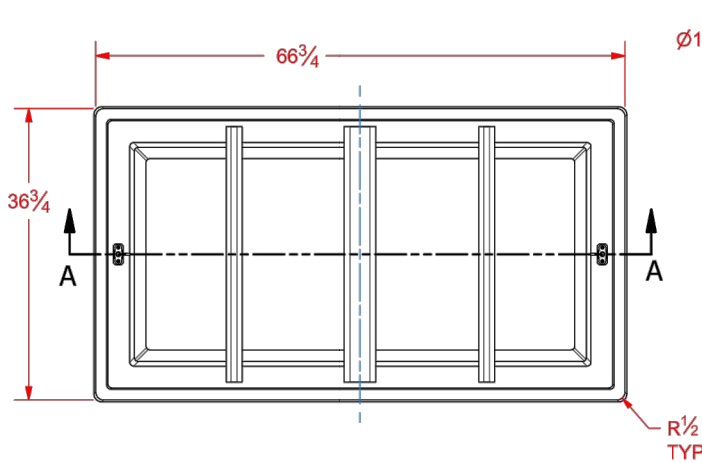
UPDATED: 6/29/2017

CUSTOMER APPROVAL

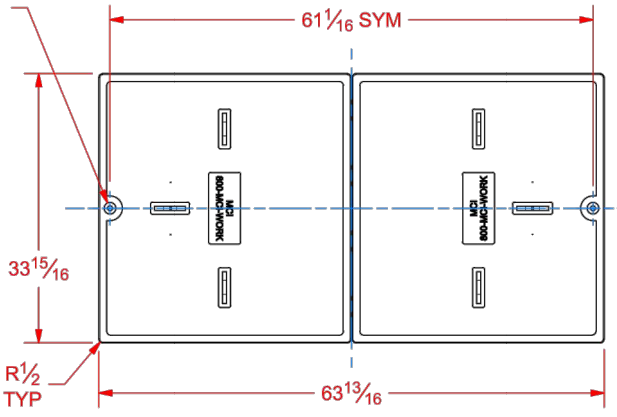
PRODUCT IS APPROVED IN ACCORDANCE WITH THE SPECIFICATIONS DESCRIBED ON THIS SHEET.

SIGNATURE

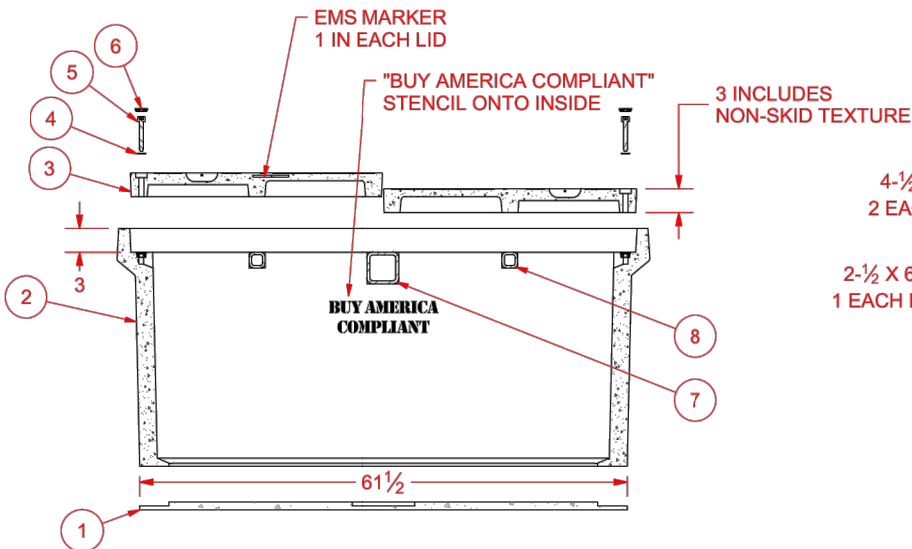
DATE



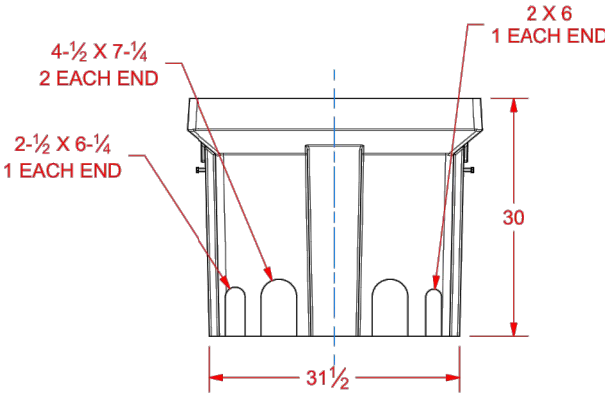
BOX - TOP VIEW



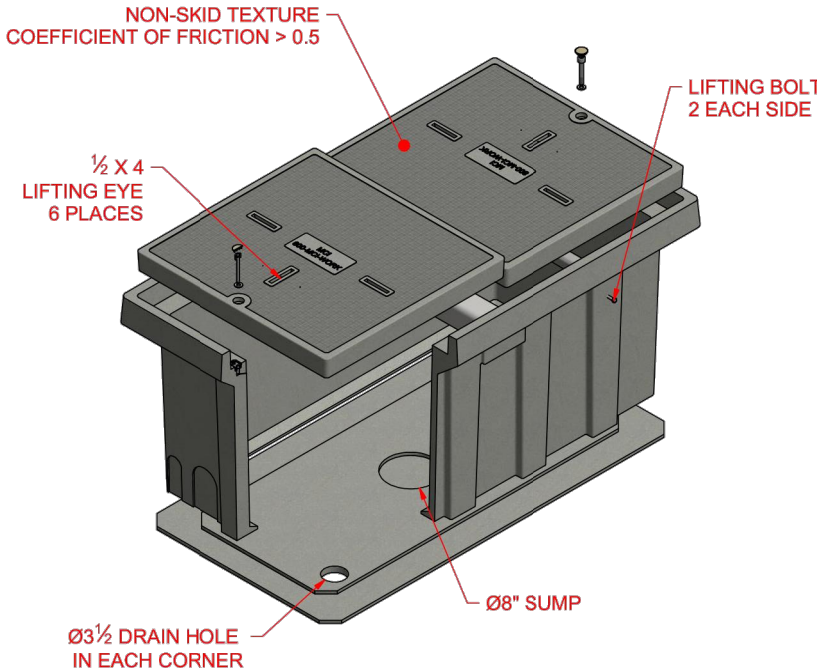
LID - TOP VIEW



SECTION A-A  
WITH LID AND HARDWARE SHOWN



END VIEW



ITEM	QTY	SKU	DESCRIPTION
8	2	0700554	SQUARE TUBE 2X2X.313 (CUT TO 32-1/4)
7	1	0700567	SQUARE TUBE 4X4X.375 (CUT TO 32-1/4)
6	2	3011200	Dome Plug for R-Series Lids
5	2	05823400	BOLT, JOHNNY, SS, 1/2-6 ACME X 3-3/4 LONG HEX PIN
4	2	HWH-F11	WASHER, FLAT SST .531 ID x 1.062 OD .095 THICK
3	2	30605015	LID, PC3060 T22 - MCI
2	1	30602030	PC3060-30 BODY
1	1	MN02735	FLOOR, PC3060-30

Parts List

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**Oldcastle** Enclosure Solutions  
801 S PINE ST  
MADERA, CA 93637  
1-800-486-7070

DRAWN: RNUNES  
CHECKED: MOLLINS  
QA: MFG: APPROVED: 4/2/2015  
5/3/2015

TITLE: UNIT, PC3060-30 TIER 22 - MCI 800-MCI-WORK - CONDUIT KNOCKOUTS AND POLYMER FLOOR

SIZE: C  
SCALE: DWG NO: 30606100  
REV: SHEET 1 OF 1

CUSTOMER FORMAT DRAWING

TOTAL EST. UNIT WEIGHT: 941 LBS  
EST. LID WEIGHT: 131 LBS (EA HALF) | EST. BODY WITH FLOOR WEIGHT: 679 LBS

UNLESS OTHERWISE SPECIFIED  
ALL DIMENSIONS ARE IN INCHES  
TOLERANCE:  
.XXX = ±.005  
.XX = ±.010  
.X = ±.030

FRACTION = ±1/8  
ANGLE = ±1°

RELEASED FOR SUBMITTAL

LAST PLOT: 4/2/2015 @ 15:16

SEFNCO  
COMMUNICATIONS

MasTec

verizon

SITE NAME: BH CROSSROADS TO REDMOND\_RIDGE\_MSC

LOCATION ADDRESS: 16210 NE 90TH ST  
REDMOND, WA 98052

MASTEID NUMBER: 1807BDIO.18\_UG\_RED\_90187

MCI METRO  
ACCESS TRANSMISSION SERVICES, CORP.  
OUTSIDE PLANT CONSTRUCTION  
RED UNDERGROUND FIBER INSTALLATION

ENGINEER: D.V.

P.E. STAMP  
DRAWN BY: N.T.  
DATE: 07/06/2020

DATE	DESCRIPTION	INITIAL

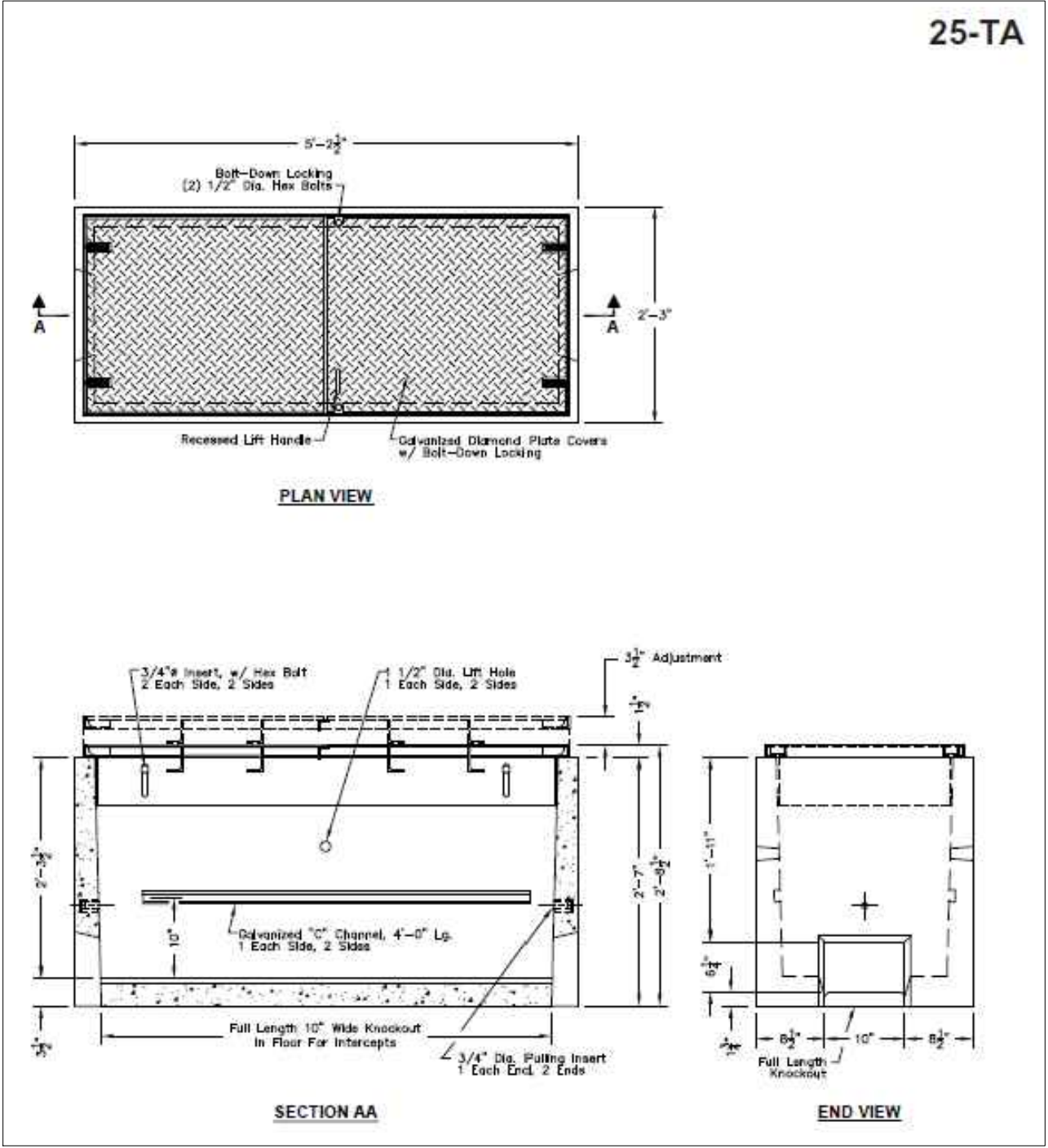
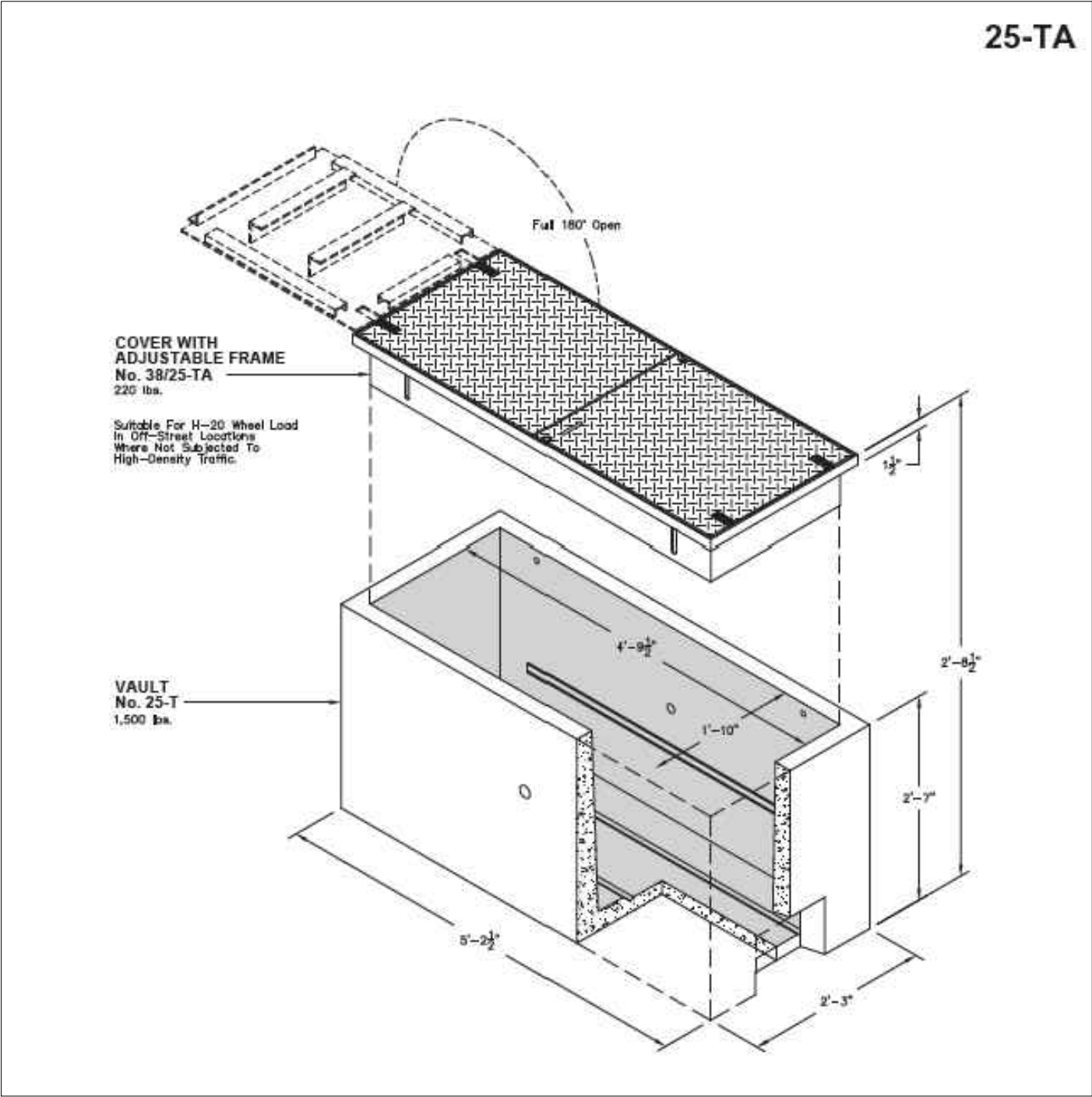
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SCALE: HORZ: N/A  
VERT: N/A

SHEET 15 OF 17



TA-25 VAULT TYPICAL



ENGINEER:	D.V.	MCI METRO	SITE NAME: BH CROSSROADS TO REDMOND_RIDGE_MSC
		ACCESS TRANSMISSION SERVICES, CORP.	
		OUTSIDE PLANT CONSTRUCTION	LOCATION ADDRESS: 16210 NE 90TH ST REDMOND, WA 98052
		RED UNDERGROUND FIBER INSTALLATION	
			MASTEC ID NUMBER: 1807BDIO.18_UG_RED_90187

ENGINEER: D.V.

P.E. STAMP  
DRAWN BY: N.T.  
DATE: 07/06/2020

REVISIONS		
DATE	DESCRIPTION	INITIAL

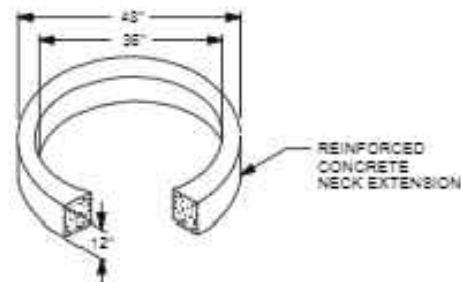
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4'X4'X4' MANHOLE TYPICAL

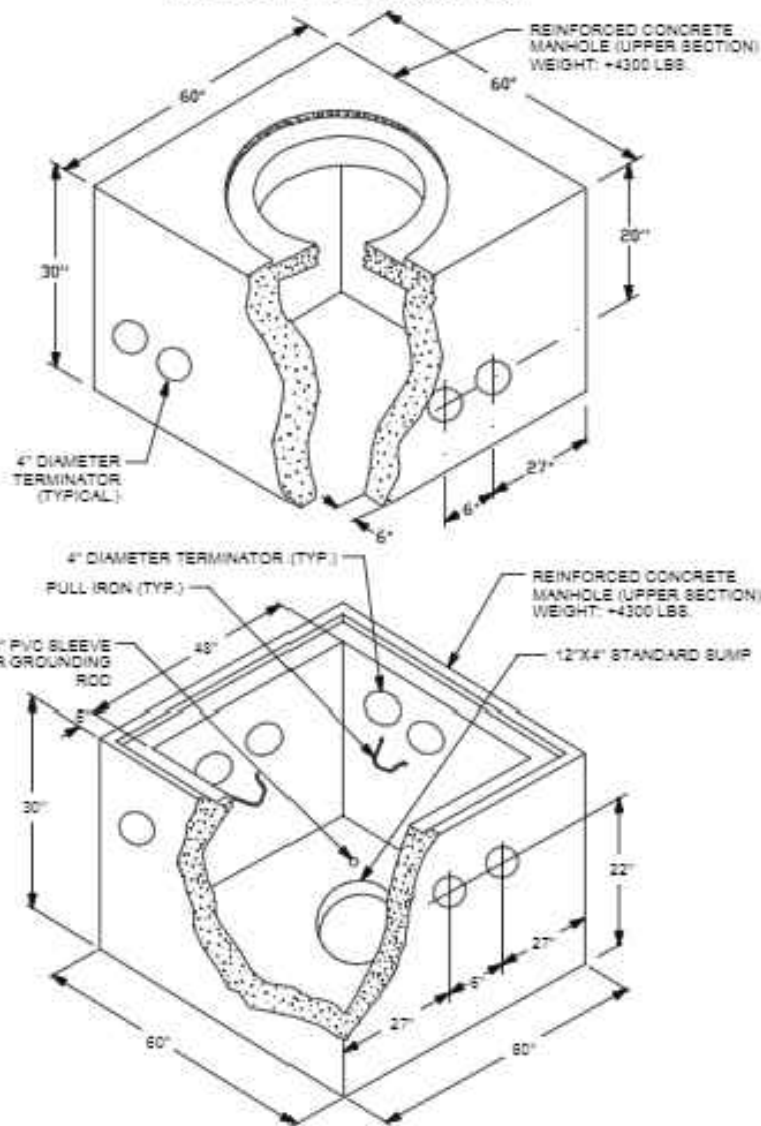
4'x4'x4' OR 4'x4'x2' MANHOLE DETAILS

TYPICAL DETAIL "A"  
TYPICAL NECK EXTENSION DETAIL



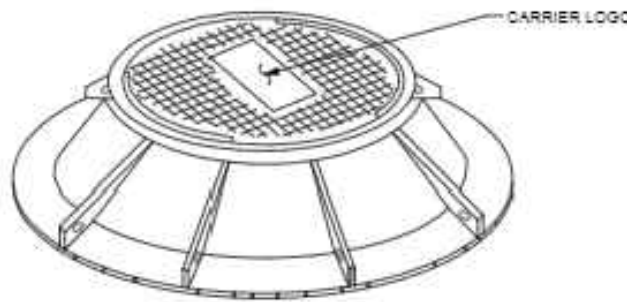
TYPICAL DETAIL "D"

DALWORTH QUICKSET MANHOLE  
WALLS: 6in. HEADROOM: 48in.



TYPICAL DETAIL "B"

MANHOLE COVER IRONWORKS #B-30

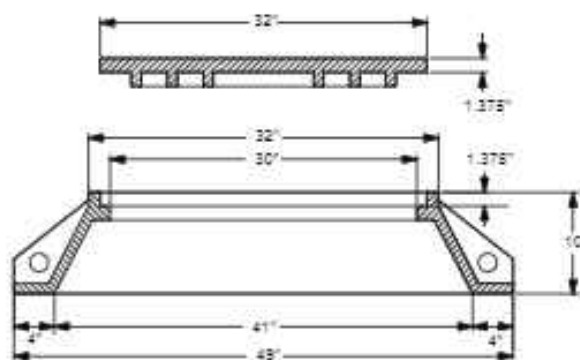


NOTES:

1. EACH COVER TO HAVE (4) PICK SLOTS FOR REMOVING.
2. STAMP CARRIER'S ID IN COVER.
3. ACCESS HOLE: 30"

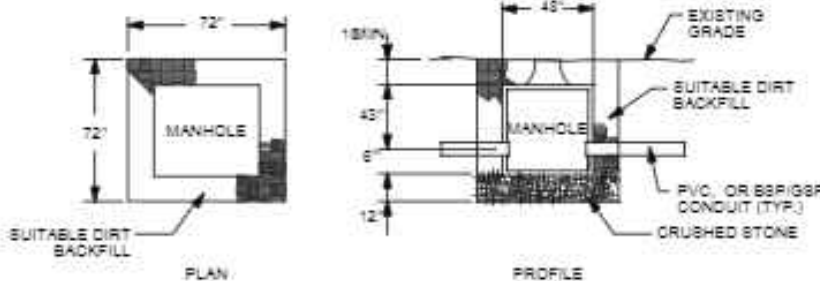
TYPICAL DETAIL "E"

RING AND COVER DETAIL  
RING: 390lbs. COVER: 300lbs.



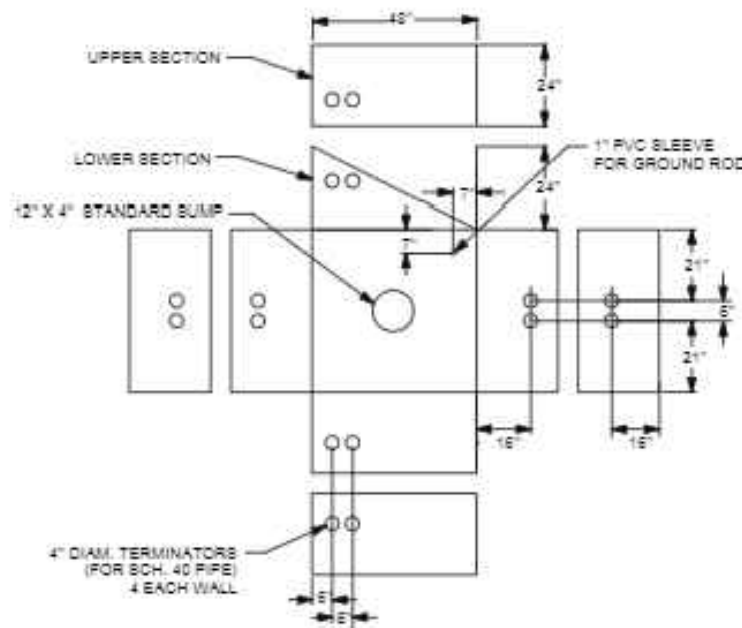
TYPICAL DETAIL "G"

TYPICAL MANHOLE EXCAVATION PIT



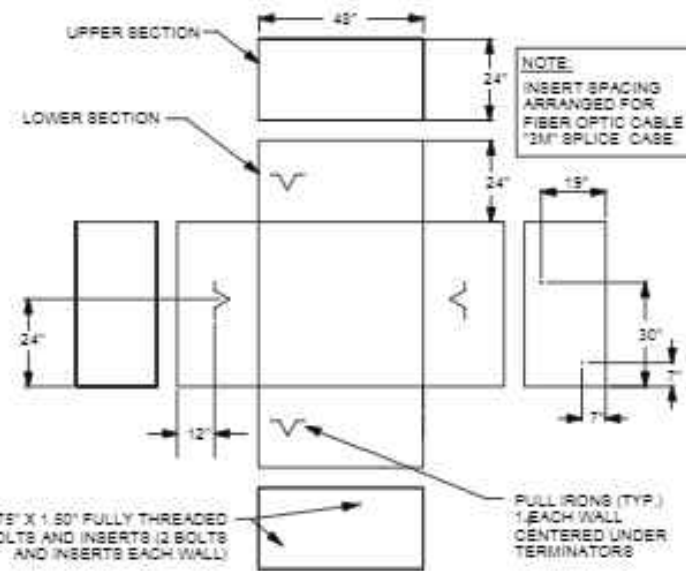
TYPICAL DETAIL "C"

TERMINATORS, SUMP, & GROUND ROD SLEEVE  
2 SECTIONS



TYPICAL DETAIL "F"

BOLT INSERTS AND PULL IRONS  
2 SECTIONS



NOTES:

1. VOID IN EXCAVATED AREAS TO BE BACKFILLED WITH SELECT MATERIAL.
2. BOTTOM OF EXCAVATED PIT TO BE BACKFILLED WITH 12" OF CRUSHED STONE (3/4" GRADE).
3. SHORING WILL BE REQUIRED.
4. ALL MANHOLES SHALL BE PLACED WITH COVER FLUSH WITH EXISTING GRADE.

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SCALE  
HORIZ: N/A  
VERT: N/A

SHEET 17 OF 17