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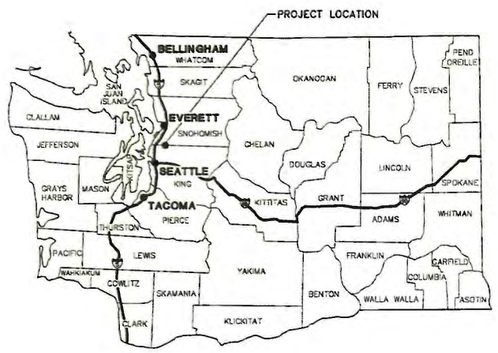
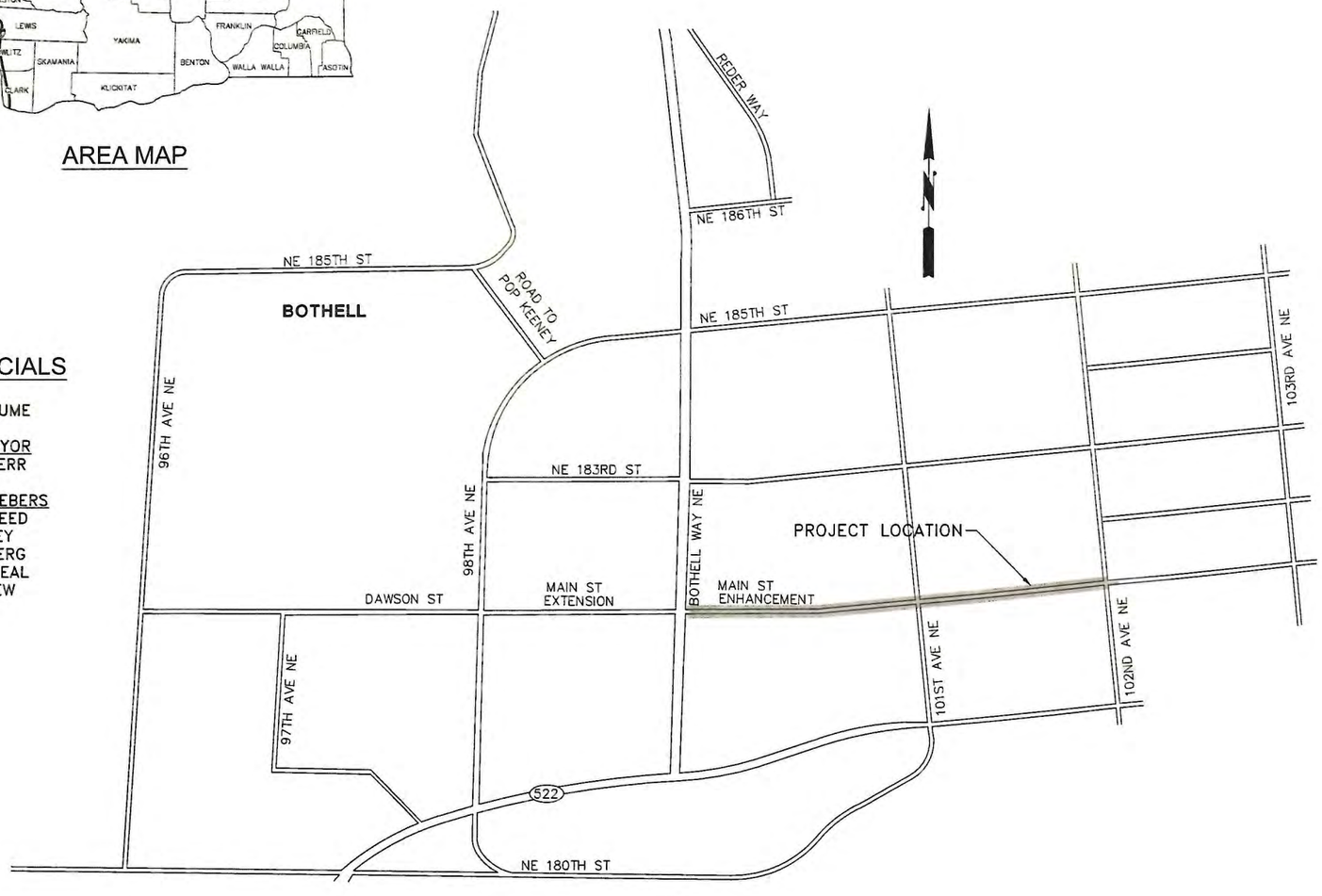
S.07 & 08 T.26N. R.05E. W.M.

CITY OF BOTHELL

MAIN STREET ENHANCEMENT
PHASE 1 PROJECT
PROJECT NO. 80000395



AREA MAP



CITY OFFICIALS

MAYOR
ANDY RHEAUME

DEPUTY MAYOR
DAVINA DUERR

COUNCIL MEMEBERS
JOSHUA FREED
DEL SPIVEY
TRIS SAMBERG
JAMES MCNEAL
TOM AGNEW

DRAWING LIST

SHEET NO.	DRAWING NO.	DRAWING TITLE
1	CV1	COVER SHEET
2	LA1	LEGEND & ABBREVIATIONS
3	GN1	GENERAL NOTES
4	AL1	ALIGNMENT - SHEET 1
5	AL2	ALIGNMENT - SHEET 2
6	SP1	SITE PREPARATION - SHEET 1
7	SP2	SITE PREPARATION - SHEET 2
8	TS1	TYPICAL SECTIONS - SHEET 1
9	TS2	TYPICAL SECTIONS - SHEET 2
10	TS3	TYPICAL SECTIONS - SHEET 3
11	TS4	TYPICAL SECTIONS - SHEET 4
12	PP1	PLAN & PROFILE - SHEET 1
13	PP2	PLAN & PROFILE - SHEET 2
14	PP3	PLAN & PROFILE - SHEET 3
15	GR1	GRADING - SHEET 1
16	GR2	GRADING - SHEET 2
17	GR3	GRADING - SHEET 3
18	GR4	GRADING - SHEET 4
19	GR5	GRADING - SHEET 5
20	GR6	GRADING - SHEET 6
21	GR7	GRADING - SHEET 7
22	SD1	DRAINAGE PROFILES - SHEET 1
23	SD2	DRAINAGE PROFILES - SHEET 2
24	UT1	UTILITIES - SHEET 1
25	UT2	UTILITIES - SHEET 2
26	UT3	UTILITIES - SHEET 3
27	UT4	UTILITY CONNECTION DETAILS
28	UT5	UTILITY CONNECTION DETAILS
29	FR1	FRANCHISE UTILITIES - SHEET 1
30	FR2	FRANCHISE UTILITIES - SHEET 2
31	CH1	CHANNELIZATION - SHEET 1
32	CH2	CHANNELIZATION - SHEET 2
33	CH3	CHANNELIZATION DETAIL
34	S1	STRUCTURAL - SHEET 1
35	S2	STRUCTURAL - SHEET 2
36	TP1	TREE PROTECTION PLAN
37	UD1	URBAN DESIGN PLAN - SHEET 1
38	UD2	URBAN DESIGN PLAN - SHEET 2
39	UD3	URBAN DESIGN PLAN - SHEET 3
40	UD4	URBAN DESIGN PLAN - SHEET 4

SHEET NO.	DRAWING NO.	DRAWING TITLE
41	LO1	LAYOUT PLAN - SHEET 1
42	LO2	LAYOUT PLAN - SHEET 2
43	LO3	LAYOUT PLAN - SHEET 3
44	LO4	LAYOUT PLAN - SHEET 4
45	LO5	LAYOUT POINT TABLES
46	DT1	DETAILS - SHEET 1
47	DT2	DETAILS - SHEET 2
48	DT3	DETAILS - SHEET 3
49	DT4	DETAILS - SHEET 4
50	DT5	DETAILS - SHEET 5
51	DT6	DETAILS - SHEET 6
52	DT7	DETAILS - SHEET 7
53	DT8	DETAILS - SHEET 8
54	DT9	TEMPORARY BUS STOP DETAILS
55	LI1	IRRIGATION PLAN - SHEET 1
56	LI2	IRRIGATION PLAN - SHEET 2
57	LI3	IRRIGATION PLAN - SHEET 3
58	LI4	IRRIGATION DETAILS
59	LI5	IRRIGATION DETAILS
60	LS1	SOILS PLAN - SHEET 1
61	LS2	SOILS PLAN - SHEET 2
62	LS3	SOILS PLAN - SHEET 3
63	LP1	PLANTING SCHEDULE
64	LP2	PLANTING PLAN - SHEET 1
65	LP3	PLANTING PLAN - SHEET 2
66	LP4	PLANTING PLAN - SHEET 3
67	LP5	PLANTING DETAILS
68	IL1	ILLUMINATION PLAN
69	ILD1	ILLUMINATION DETAIL - SHEET 1
70	ILD2	ILLUMINATION DETAIL - SHEET 2
71	ILD3	ILLUMINATION DETAIL - SHEET 3
72	IC1	INTERCONNECT PLAN
73	CB1	BOTHELL STANDARDS - SHEET 1
74	CB2	BOTHELL STANDARDS - SHEET 2
75	CB3	BOTHELL STANDARDS - SHEET 3
76	CB4	BOTHELL STANDARDS - SHEET 4
77	CB5	BOTHELL STANDARDS - SHEET 5
78	CB6	BOTHELL STANDARDS - SHEET 6
79	CB7	BOTHELL STANDARDS - SHEET 7

APPROVED FOR CONSTRUCTION

EDDIE LOW, PE CITY ENGINEER _____ DATE _____

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

3/13/2017

Drawn By	RAV	Date 3/13/17
Designed By	JWA	3/13/17
Checked By	GHG	3/13/17
Approved By	RLF	3/13/17

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
COVER SHEET

Drawing No. CV1
Sheet No. 1 of 79 of Total

Mar 15, 2017 - 4:41pm susann babaei Q:\Seattle\2015\A15.0150\00\CADD\Dwgs\01_CV-01.dwg Layout Name: Layout1

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SYMBOLS

EXIST.	PROP.	
●		SANITARY SEWER MANHOLE
◍		TYPE 2 CATCH BASIN
		TELEPHONE MANHOLE
▦		TYPE I CATCH BASIN
		FIRE DEPARTMENT CONNECTION
		FIRE HYDRANT
		WATER SPIGOT
		WATER METER
		WATER VALVE
		IRRIGATION CONTROL BOX
		MONITORING WELL
		TELEPHONE JUNCTION BOX
		TRAFFIC CONTROL BOX
		POWER METER
		POWER JUNCTION BOX
		GAS VALVE
		HAND HOLE
		LIGHT POLE
		MAILBOX
		MONUMENT
		SIGN
		UTILITY POLE
		GUY WIRE
		UTILITY POLE W/ STREET LAMP
		DECIDUOUS TREE
		EVERGREEN TREE
		SHRUBS / BUSHES / HEDGES
		BOLLARD
		COMMUNICATIONS VAULT
		TELEPHONE VAULT

LINETYPES

EXISTING

- SECTION LINE
- EX RIGHT-OF-WAY LINE
- EX RIGHT-OF-WAY CENTERLINE
- EX EASEMENT LINE
- EX PROPERTY LINE
- OVERHEAD POWER LINE
- UNDERGROUND POWER
- UNDERGROUND POWER
- SANITARY SEWER
- STORM DRAIN
- OVERHEAD TELEPHONE LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND TELEPHONE LINE, PREVIOUSLY ABANDONED
- GAS LINE
- WATER LINE
- CHAIN LINK FENCE
- WOOD FENCE
- ROCKERY
- CONTOURS (MAJOR)
- CONTOURS (MINOR)

PROPOSED

- RIGHT-OF-WAY LINE
- SD — STORM DRAIN (SIZE AS NOTED)
- W — WATER (SIZE AS NOTED)
- CENTER LINE
- SAWCUT FULL DEPTH PAVEMENT
- P — UNDERGROUND POWER
- G — GAS LINE
- xx — CONTOURS (MAJOR)
- xx — CONTOURS (MINOR)

CHANNELIZATION SYMBOLS

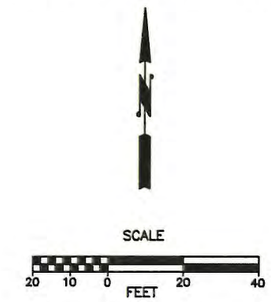
EXISTING	PROPOSED	DESCRIPTION
	↑	LANE CONTROL ARROWS: STRAIGHT ARROW
	↱	RIGHT TURN ARROW
	↑↱	THROUGH/RIGHT TURN ARROW
	—	STOP BAR
	▮▮▮▮	CROSSWALK

HATCH PATTERNS

- REMOVE LANDSCAPE
- REMOVE SIDEWALK
- REMOVE PAVEMENT, CURB AND GUTTER
- CEMENT CONCRETE PAVEMENT
- LANDSCAPE
- CEMENT CONCRETE PAVERS
- CEMENT CONCRETE SIDEWALK
- HOT MIXED ASPHALT PAVEMENT
- TACTILE WARNING STRIP

S.07 T.26N. R.05E. W.M.

REFERENCE SYMBOLS



ABBREVIATIONS

±	–	APPROXIMATE
AP	–	ANGLE POINT
APPROX	–	APPROXIMATE
ATB	–	ASPHALT TREATED BASE
AVE	–	AVENUE
BOC	–	BACK OF CURB
BFE	–	BASE FLOOD ELEVATION
BVC	–	BEGINNING VERTICAL CURVE
CB	–	CATCH BASIN
℄	–	CENTERLINE
CMP	–	CORRUGATED METAL PIPE
CO	–	DRAINAGE CLEAN OUT
CONC.	–	CONCRETE
DI	–	DUCTILE IRON
DW	–	DRIVEWAY
ELEV	–	ELEVATION
EX	–	EXISTING
EXIST	–	EXISTING
EVC	–	END OF VERTICAL CURVE
FG	–	FACE OF GUTTER
FHA	–	FIRE HYDRANT ASSEMBLY
FLEX	–	FLEXIBLE
FL	–	FLOW LINE
FLN	–	FOG LINE
HCR	–	HANDICAP RAMP
IE	–	INVERT
IN	–	INCH
IP	–	IRON PIPE
MH	–	MANHOLE
MON	–	MONUMENT
MWB	–	MULTIWAY BOULEVARD PROJECT
MWB –PH2	–	MULITWAY BOULEVARD PROJECT PHASE 2
NE	–	NORTH EAST
NTS	–	NOT TO SCALE
PC	–	POINT OF CURVATURE
PCC	–	POINT OF COMPOUND CURVATURE
PM	–	POWER METER
PROP	–	PROPOSED
PT	–	POINT OF TANGENCY
PVC	–	POLYVINYL CHLORIDE COATING
PVI	–	POINT OF VERTICAL INTERSECTION
PVMT	–	PAVEMENT
R	–	RADIUS
RCP	–	REINFORCED CONCRETE PIPE
RD	–	ROOF DRAIN
R/W	–	RIGHT OF WAY
SCH A	–	SCHEDULE A
SD	–	STORM DRAIN
SL	–	SLOPE
SR	–	STATE ROAD
SS	–	SANITARY SEWER
ST	–	STREET
STA	–	STATION
STD	–	STANDARD
S/W	–	SIDEWALK
TP	–	TOP OF PAVEMENT
TOW	–	TOP OF SIDEWALK
TYP	–	TYPICAL
WM	–	WATER METER
WSDOT	–	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
WV	–	WATER VALVE
YLS	–	YELLOW LANE STRIPE

3/13/2017

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

ROBERT L. FERNALD — STATE OF WASHINGTON — 19000 — REGISTERED PROFESSIONAL ENGINEER

Drawn By	RAV	Date 3/13/17
Designed By	JWA	3/13/17
Checked By	GHG	3/13/17
Approved By	RLF	3/13/17

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
LEGEND & ABBREVIATIONS

Drawing No. LA1
Sheet No. 2 / 79 of Total

Mar 15, 2017 - 4:42pm susann.babaei O:\Seattle\2015\A15.0150\00\CADD\Dwgs\02_LA-01.dwg Layout Name: Layout1

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TEMPORARY EROSION AND SEDIMENT CONTROL

1. THE IMPLEMENTATION AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
2. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
3. THE ESC FACILITIES MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
4. DURING THE CONSTRUCTION PERIOD, THE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
5. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
6. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.
7. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN.
8. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
9. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
10. PROVIDE STORM INLET PROTECTION PER CITY OF BOTHELL STANDARD T408 FOR ALL STORM DRAIN INLETS IN THE PROJECT AREA AND WITHIN 500 FEET OF A DISTURBED OR CONSTRUCTION AREA. INLETS SHOULD BE INSPECTED WEEKLY AT A MINIMUM, AND DAILY DURING STORM EVENTS. INLET PROTECTION DEVICES SHOULD BE CLEANED, OR REMOVED AND REPLACED, WHEN SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. PROVIDE INLET PROTECTION FOR ALL TRENCH DRAINS IN THE PROJECT AREA.

GENERAL

1. THE CONTRACTOR MUST HAVE A SET OF CITY-APPROVED PLANS ON SITE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION.
2. BEFORE ANY CONSTRUCTION MAY OCCUR, THE CONTRACTOR SHALL HAVE CITY-APPROVED SIGNED PLANS, ALL CITY, COUNTY, STATE, FEDERAL, AND OTHER REQUIRED PERMITS, AND SHALL HAVE POSTED ALL REQUIRED BONDS.
3. THE CONTRACTOR SHALL CALL THE UTILITY NOTIFICATION CENTER AT 1-800-424-5555 AT LEAST 48 HOURS BEFORE DIGGING OR GRADING OPERATIONS OCCUR.
4. THE CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS, WHETHER OR NOT THESE UTILITIES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXERCISE ALL CARE TO AVOID DAMAGE TO ANY UTILITIES. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY CONSTRUCTION INSPECTOR AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ON THE PROJECT. ALL REQUESTS FOR INSPECTIONS AND FOR WITNESSING TESTS SHALL BE SCHEDULED WITH THE CITY CONSTRUCTION INSPECTOR AT LEAST 24 HOURS IN ADVANCE, AND NO MORE THAN 7 DAYS IN ADVANCE. FAILURE TO GIVE ADEQUATE NOTICE MAY RESULT IN DELAYS TO THE WORK FOR REQUIRED INSPECTIONS.
5. LOCATIONS OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE AND MAY NOT BE COMPLETE. ACTUAL UTILITY LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD.

3/13/2017

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

Drawn By	RAV
Designed By	JWA
Checked By	GHG
Approved By	RLF
Date	3/13/17
Date	3/13/17
Date	3/13/17
Date	3/13/17
SCALE	
Horiz	
Vert	
Project Number	A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
GENERAL NOTES

Drawing No. GN1
Sheet No. 3 of 79 of Total

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S.07 T.26N. R.05E. W.M.

S.08 T.26N. R.05E. W.M.

* DENOTES BUSINESS IDENTIFIED AS HAVING A BASEMENT IN THE THRESHOLD ASSESSMENT. CONTRACTOR TO CONFIRM.

ALIGNMENT COORDINATES

REFERENCE STATION	NORTHING	EASTING
STA "M" 15+00.00	280235.88	1302406.96

HORIZONTAL CURVE DATA

X	PI STA	LENGTH	RADIUS	TANGENT	DELTA
C1	STA "M" 16+28.27	106.60'	1000.00'	53.35'	06°06'27"

SCALE
20 10 0 FEET 20 40

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 1983/91, U.S. SURVEY FEET

BASIS OF BEARINGS

NORTH 85°08'19" EAST ALONG THE CENTER LINE OF MAIN STREET FROM THE FOUND MONUMENT AT INTERSECTION WITH 101ST AVE NE TO THE FOUND MONUMENT AT THE INTERSECTION WITH 102ND AVE NE.

NOTES

MAIN STREET ENHANCEMENT PROJECT IS ON A DIFFERENT BASIS OF BEARING AND VERTICAL DATUM THAN MULTIWAY PROJECT (BOTHELL WAY NE)

OWNERSHIPS

TAX PARCEL NO.	OWNER NAME	TOTAL AREA	R/W TAKE	REMAINDER	TEMPORARY CONSTRUCTION EASEMENT
0726059401	HARTSOOK CHERYL	11,642 SF	0 SF	11,642 SF	404 SF
0826059040	HILLCREST III LLC	5,802 SF	0 SF	5,802 SF	183 SF
0826059216	PHILLPS JAMES R	10,332 SF	0 SF	10,332 SF	152 SF
0826059374	LIMESTONE COURT OF BELLEVUE, LLC	8,688 SF	0 SF	8,688 SF	135 SF
0826059128	LIMESTONE COURT OF BELLEVUE, LLC	5,646 SF	0 SF	5,646 SF	68 SF
0826059111	MBA PARKER BOTHELL LLC	12,800 SF	0 SF	12,800 SF	604 SF
0967000251	BERG EDITH	10,800 SF	0 SF	10,800 SF	562 SF
0967000250	SWANSON JAMES L & SANDRA L	3,600 SF	0 SF	3,600 SF	174 SF
0967000246	MCAULIFFE PROPERTIES LLC	2,400 SF	0 SF	2,400 SF	90 SF

LEGEND:

PROPERTY LINE

EXISTING RIGHT-OF-WAY

TEMPORARY CONSTRUCTION EASEMENT

NOTE:
SEE APPENDIX C IN THE SPECIAL PROVISIONS FOR TCE DIMENSIONS

SCALE
20 10 0 FEET 20 40

3/13/2017

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

Drawn By RAV	Date 3/13/17	SCALE Horiz
Designed By JWA	3/13/17	Vert
Checked By GHG	3/13/17	Project Number A15.0150
Approved By RLF	3/13/17	

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
ALIGNMENT – SHEET 1

Drawing No. AL1
Sheet No. 4 of Total 79

Mar 15, 2017 - 4:44pm susan.babael O:\Seattle\2015\A15.0150\00\CADD\Dwgs\04_AL-01.dwg Layout Name: Layout1

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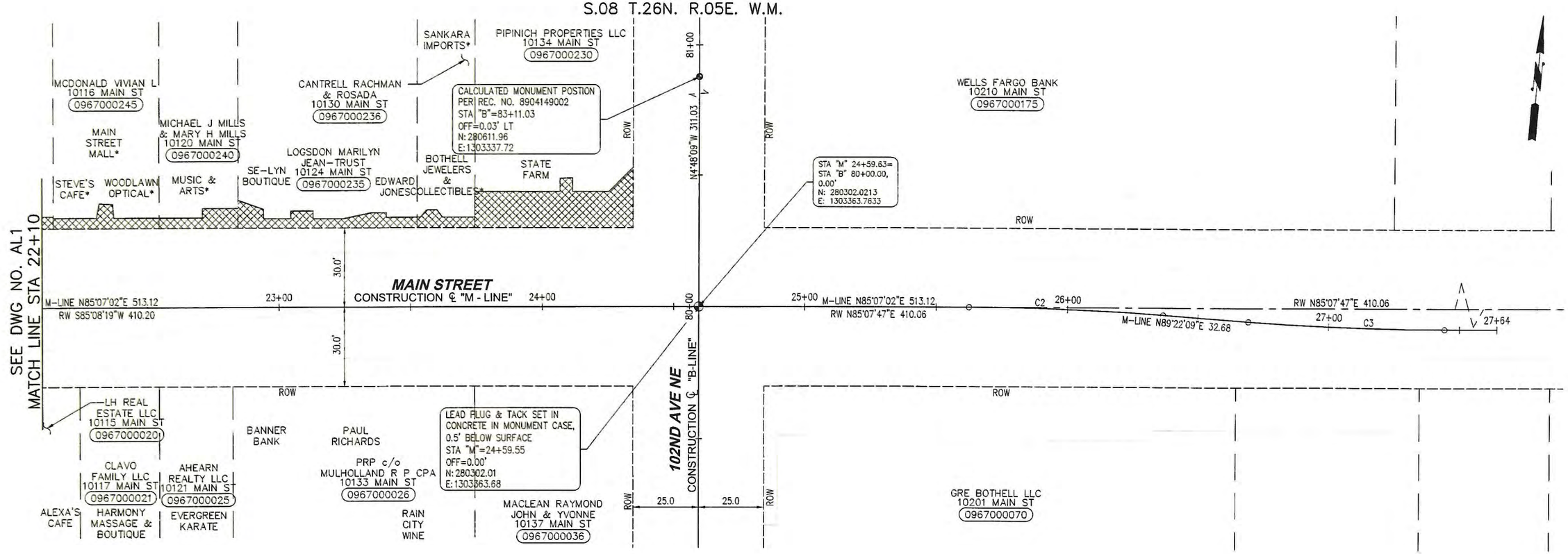

NOTE:
SEE APPENDIX C IN THE SPECIAL PROVISIONS FOR TCE DIMENSIONS

* DENOTES BUSINESS IDENTIFIED AS HAVING A BASEMENT IN THE THRESHOLD ASSESSMENT. CONTRACTOR TO CONFIRM

LEGEND:

—— – – —— PROPERTY LINE

———————— EXISTING RIGHT-OF-WAY

TEMPORARY CONSTRUCTION EASEMENT

SCALE
20 10 0 20 40
FEET

ALIGNMENT COORDINATES

REFERENCE STATION	NORTHING	EASTING
STA "M" 27+64.41	280320.05	1303667.88

HORIZONTAL CURVE DATA

X	PI STA	LENGTH	RADIUS	TANGENT	DELTA
C2	STA "M" 25+99.59	74.2'	1000'	37.12	04°15'07"
C3	STA "M" 27+06.79	74.8'	1000'	37.43	04°17'14"

OWNERSHIPS

TAX PARCEL NO.	OWNER NAME	TOTAL AREA	R/W TAKE	REMAINDER	TEMPORARY CONSTRUCTION EASEMENT
0967000245	MCDONALD VIVIAN L	4,800 SF	0 SF	4,800 SF	191 SF
0967000240	MILLS MICHAEL J	3,600 SF	0 SF	3,600 SF	168 SF
0967000235	LOGSDON MARILYN JEAN – TRUST	8,160 SF	0 SF	8,160 SF	347 SF
0967000236	CANTRELL RACHMAN + ROSADA	2,640 SF	0 SF	2,640 SF	105 SF
1967000005	HARKONEN DAVID L	6,269 SF	0 SF	6,269 SF	68 SF
0967000230	PIPINICH PROPERTIES LLC	7,200 SF	0 SF	7,200 SF	890 SF

No.	Date	Revision	By	Appr.

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1301 Fifth Avenue, Suite 1200
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(206) 357-5600 FAX: (206) 357-5601

City of Bothell

3/13/2017

Drawn By	RAV	Date 3/13/17
Designed By	JWA	3/13/17
Checked By	QHG	3/13/17
Approved By	RLF	3/13/17

SCALE
Horiz
Vert
Project Number A15.0150

CONFORMED PLANS

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
ALIGNMENT – SHEET 2

Drawing No. AL2
Sheet No. 5 of Total 79

Mar 15, 2017 - 4:45pm susann.babael Q:\Seattle\2015\A15.0150\00\CADD\Dwgs\004_AL-02.dwg Layout Name: Layout1

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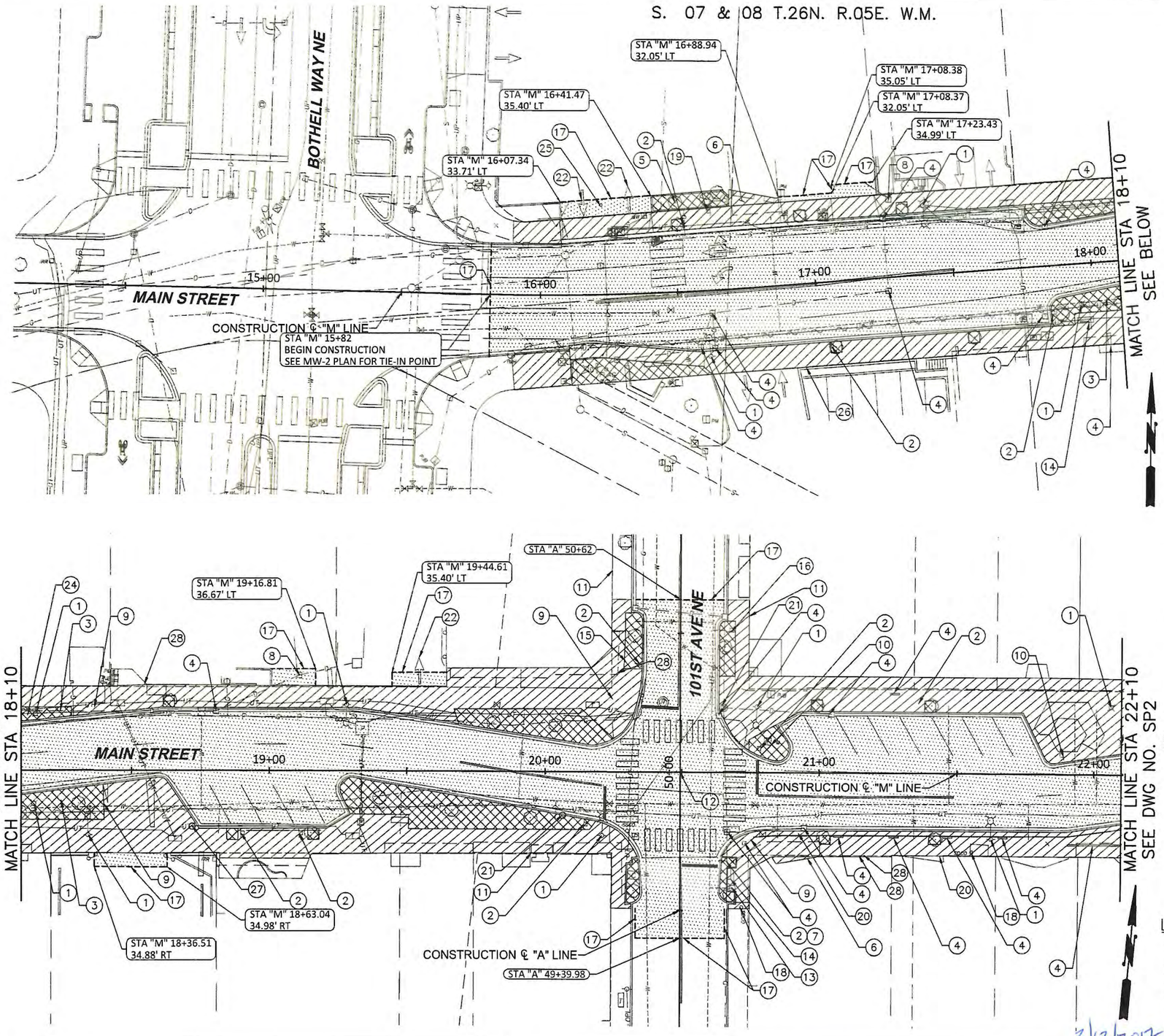

CONSTRUCTION NOTES

1. REMOVE LIGHT POLE, FOUNDATION, AND ASSOCIATED WIRING, CONDUIT, & JUNCTION BOXES. COORDINATE WITH PSE FOR DISCONNECTION OF POWER. SEE SPEC.
2. REMOVE SIGN POST AND FOUNDATION
3. REMOVE POST AND CONCRETE FOUNDATION
4. REMOVE DRAINAGE STRUCTURE AND PIPE AS NEEDED
5. REMOVE RAISED PLANTER ON PRIVATE PROPERTY. PROTECT LIGHT.
6. REMOVE CONCRETE PAVEMENT (THRESHOLD). SEE SPECIAL PROVISIONS FOR COORDINATION INFORMATION.
7. SALVAGE ART OR HISTORIC MARKER AND RETURN TO CITY. SEE SPECIAL PROVISIONS.
8. ADJUST CATCH BASIN
9. REMOVE BURIED CONCRETE FOUNDATION
10. DE-ENERGIZE POWER LINE IN POWER BOX, REMOVE ASSOCIATED POST, BOX, LINES AND CONDUIT.
11. PROTECT MURAL/ART PANEL IN PLACE
12. REMOVE AND RESET MONUMENT
13. REMOVE HYDRANT & SALVAGE TO CITY, SEE SPECIFICATIONS
14. REMOVE STREET FURNITURE AND SALVAGE TO CITY
15. RELOCATE MAILBOX, SEE SHEET UD4 FOR PROPOSED LOCATION
16. RELOCATE EXISTING POST & ART 5' NORTH (CORE INTO S/W CONCRETE)
17. SAWCUT EXISTING PAVEMENT
18. ADJUST STORM CLEANOUT
19. REMOVE WAYFINDING SIGN AND FOUNDATION AS NEEDED, REINSTALL ON NEW POLE PER CH PLAN
20. PROTECT EXISTING RPBA & SERVICE LINE
21. REMOVAL OF EXISTING DRAINAGE MANHOLE
22. REMOVE PLASTIC TRAFFIC MARKING
23. PROTECT EXISTING MONUMENT IN PLACE
24. SALVAGE SHOP STONE TO CITY
25. SANITARY SEWER CLEANOUT TO BE PROTECTED AND RAISED AFTER PAVING
26. PROTECT RETAINING WALL
27. RELOCATE TOWN GOWN LOOP MARKER TO LOCATION PER CITY ENGINEER
28. PROTECT EXISTING MAILBOX

GENERAL NOTES

1. SEE SHEET TP-1 FOR TREE PROTECTION LOCATION AND DETAILS.
2. CONTRACTOR SHALL REMOVE ALL PLANTERS, TRASH CANS, AND OTHER UNFIXED STREET FURNITURE AND SALVAGE TO CITY.
3. REMOVAL OF PRIVATELY OWNED STREET FURNITURE, PLANTERS, SIGNS, MATS, AND NEWSPAPER DISPENSERS IS TO BE COORDINATED BY CONTRACTOR WITH THE PROPERTY OWNERS.
4. PROTECT EXISTING WATER METERS, RPBS AND VALVES UNTIL SWITCHOVER TO NEW LINES IS PERFORMED.
5. CONTRACTOR TO PROTECT ADJACENT BUILDING FACADES FOR DURATION OF PROJECT.
6. SEE UT SHEETS FOR REMOVAL LIMITS OF AC WATER MAIN.
7. PROTECT MONITORING WELLS WITHIN PROJECT LIMITS AND ADJUST TO GRADE.

LEGEND

REMOVE LANDSCAPE, TREES, AND SHRUBS

REMOVE SIDEWALK

REMOVE PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER

SCALE
20 10 0 20 40
FEET

3/13/2017

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

Drawn By RAV	Date 3/13/17	
Designed By JWA	3/13/17	
Checked By GHG	3/13/17	
Approved By RLF	3/13/17	

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
SITE PREPARATION – SHEET 1

Drawing No. SP1
Sheet No. 6 of Total 79

Mar 16, 2017 - 9:38am susann babaei Q:\Seattle\2015\A15.015000\CADD\Dwgs\05_SP-01.dwg Layout Name: Layout1

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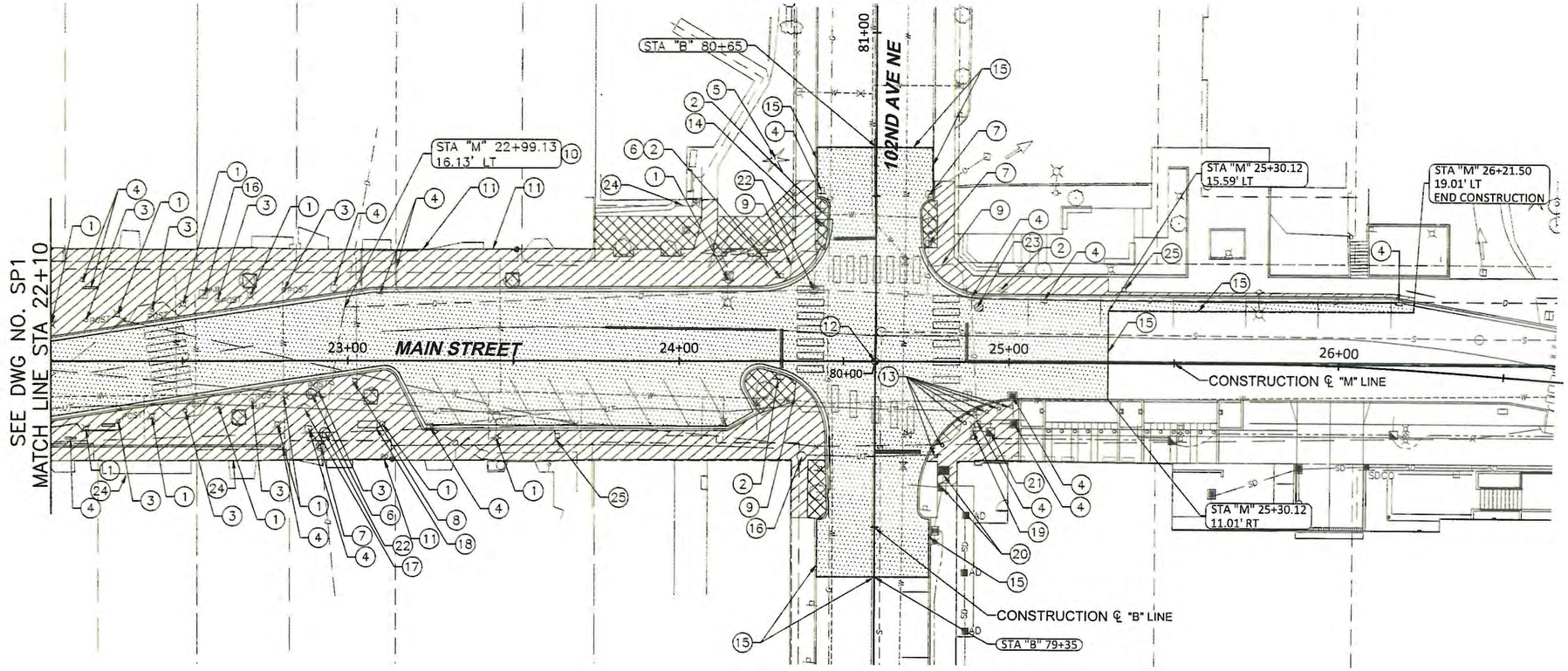
S.08 T.26N. R.05E. W.M.



CONSTRUCTION NOTES

1. REMOVE LIGHT POLE, FOUNDATION, AND ASSOCIATED WIRING, CONDUIT, & JUNCTION BOXES. COORDINATE WITH PSE FOR DISCONNECTION OF POWER. SEE SPECIFICATIONS.
2. REMOVE SIGN POST AND CONCRETE FOUNDATION
3. REMOVE POST AND CONCRETE FOUNDATION
4. REMOVE DRAINAGE STRUCTURE AND PIPE AS NEEDED
5. PROTECT TREE, SEE SHEET TP1
6. SALVAGE ART OR HISTORIC MARKER. REINSTALL SALVAGED ART ON NEW POST. SEE SPECIAL PROVISIONS. RELOCATE TOWN GOWN LOOP BOULDER/PLAQUE TO LOCATION PER CITY ENGINEER
7. ADJUST CATCH BASIN
8. COORDINATE WITH METRO TRANSIT FOR BUS STOP CLOSURE & RELOCATION
9. REMOVE BURIED CONCRETE FOUNDATION
10. REMOVAL OF EXISTING PIPE AND CUT AND CAP PIPE FROM THE EAST
11. PROTECT MURAL/ART PANEL IN PLACE
12. REMOVE AND RESET MONUMENT
13. REMOVE BOLLARD AND SALVAGE TO CITY
14. TEMPORARILY RELOCATE MAILBOX, SEE SHEET UD4 FOR FINAL LOCATION. COORDINATE WITH USPS.
15. SAWCUT EXISTING PAVEMENT
16. ADJUST COM VAULT. CONDUIT RELOCATION BY OTHERS
17. RELOCATE DECORATIVE BIKE RACK TO WEST SIDE OF 102ND AVE NE. SEE SHEET L04 FOR FINAL LOCATION.
18. RELOCATE DECORATIVE BENCH TO NORTH EAST SIDE OF 102ND AVE NE. SEE SHEET L04 FOR FINAL LOCATION.
19. REMOVE LIGHT POLE
20. PROTECT INTERCONNECT & JUNCTION BOX.
21. REMOVE & RESET JUNCTION BOX PER ILLUMINATION PLANS.
22. REMOVAL OF EXISTING DRAINAGE MANHOLE
23. ADJUST OR PROTECT LID
24. PROTECT EXISTING MAILBOX
25. REMOVE WAYFINDING SIGN AND FOUNDATION AS NEEDED, REINSTALL ON NEW POLE PER CH PLAN

GENERAL NOTES

1. SEE SHEET TP-1 TREE PROTECTION LOCATIONS AND DETAILS.
2. CONTRACTOR SHALL REMOVE ALL PLANTERS, TRASH CANS, AND OTHER UNFIXED STREET FURNITURE AND SALVAGE TO CITY.
3. REMOVAL OF PRIVATELY OWNED STREET FURNITURE, PLANTERS, SIGNS, MATS, AND NEWSPAPER DISPENSERS IN EASEMENT (ICE) AREA IS TO BE COORDINATED BY CONTRACTOR WITH THE PROPERTY OWNERS. SEE SPECIAL PROVISIONS.
4. PROTECT EXISTING WATER METERS UNTIL SWITCHOVER TO NEW LINES IS PERFORMED.
5. CONTRACTOR TO PROTECT ADJACENT BUILDING FACADES FOR DURATION OF PROJECT.
6. SEE UT SHEETS FOR REMOVAL LIMITS OF AC WATER MAIN.
7. PROTECT MONITORING WELLS WITHIN PROJECT LIMITS.

LEGEND

- REMOVE LANDSCAPE, TREES, AND SHRUBS
- REMOVE SIDEWALK
- REMOVE PAVEMENT, CURB AND GUTTER

SCALE
20 10 0 FEET 20 40

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

3/13/2017

ROBERT L. FERNANDES — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON

Drawn By	RAV	Date 3/13/17
Designed By	JWA	3/13/17
Checked By	GHG	3/13/17
Approved By	RLF	3/13/17

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
SITE PREPARATION – SHEET 2

Drawing No. SP2
Sheet No. 7 / 79 of Total

Mar 15, 2017 - 4:47pm susann.babael Q:\Seattle\2015\A15.0150\00\CADD\Dwgs\05_SP-02.dwg Layout Name: Layout1

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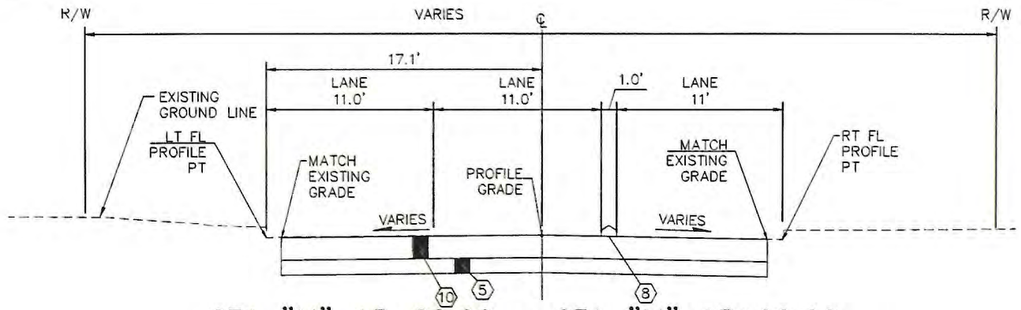
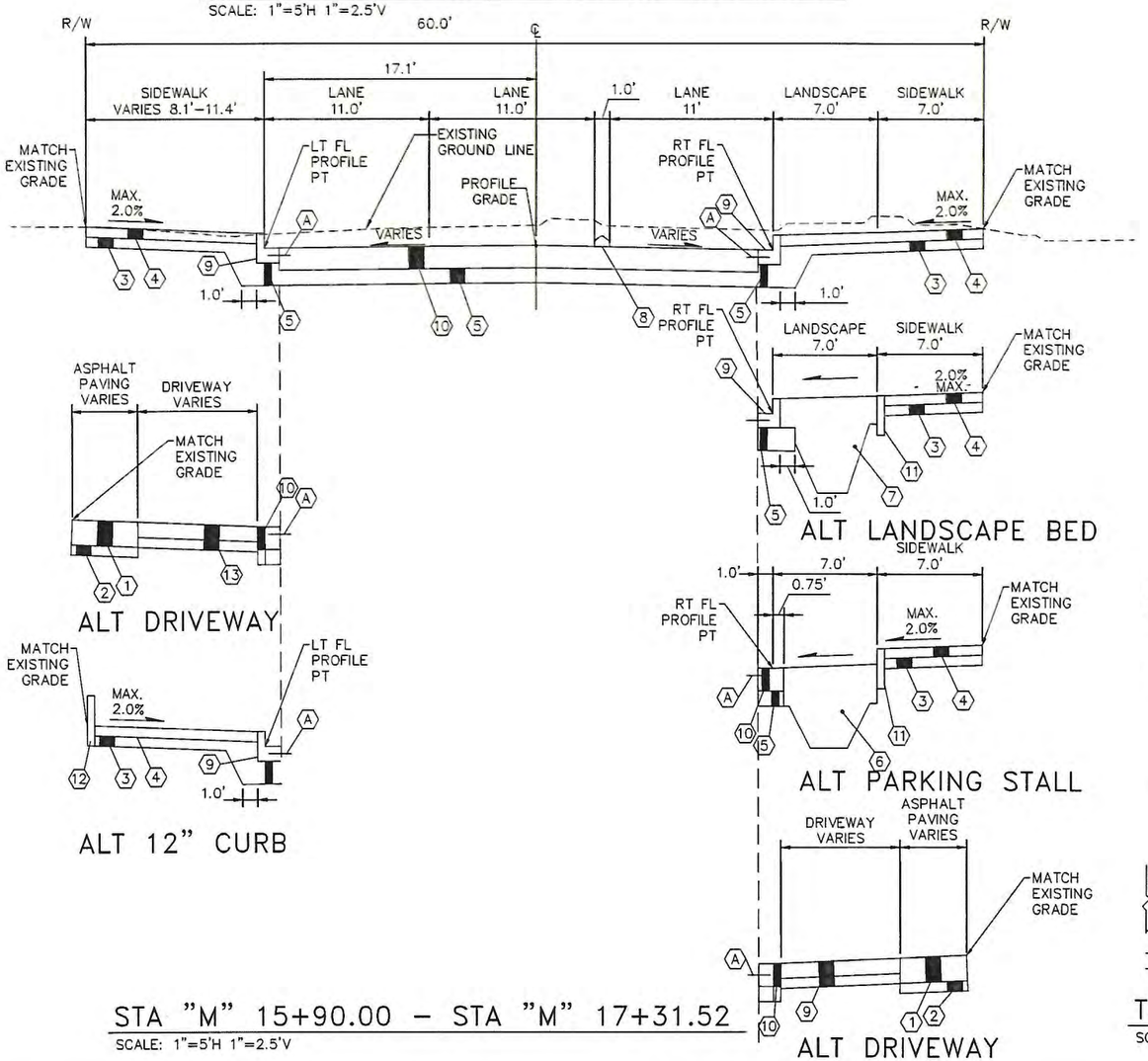
S.08 T.26N.
R.05E. W.M.



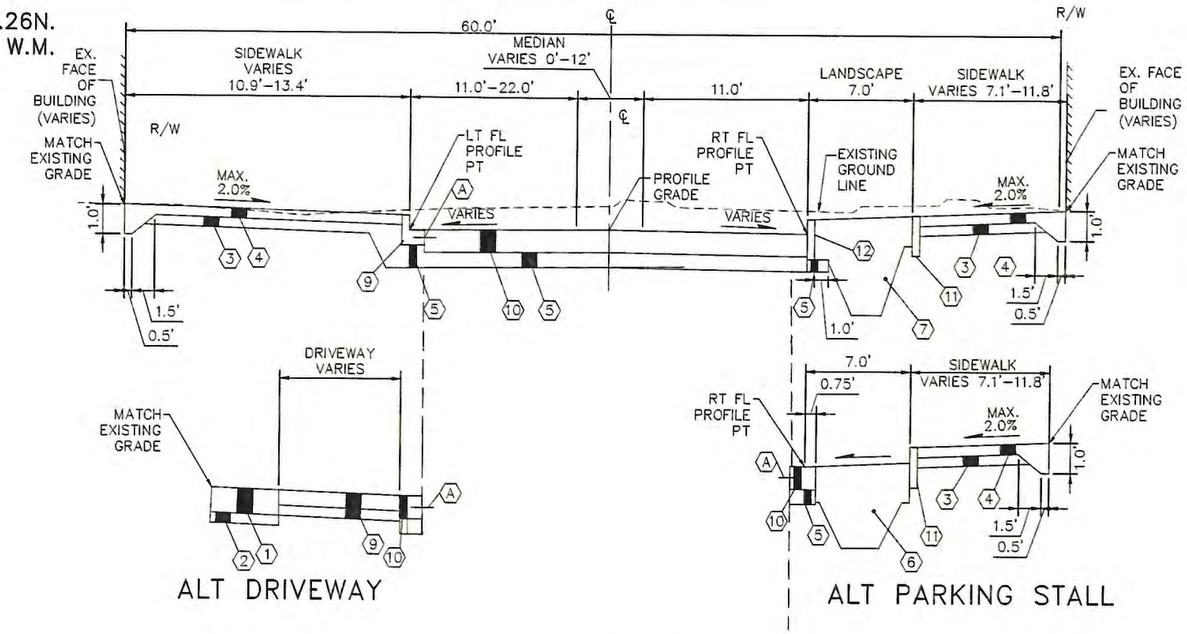
STA "M" 15+82.00 – STA "M" 15+90.00

SCALE: 1"=5'H 1"=2.5'V



STA "M" 15+90.00 – STA "M" 17+31.52

SCALE: 1"=5'H 1"=2.5'V

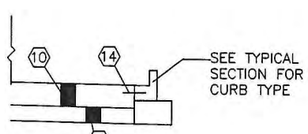


STA "M" 17+31.52 – STA "M" 18+06.89

SCALE: 1"=5'H 1"=2.5'V

GENERAL NOTES

1. SEE GRADING PLANS FOR SLOPES AND SPOT ELEVATIONS.
2. SEE SHEETS UD1–UD4, LO1–LO4 AND DT1–DT8 FOR LOCATIONS AND DIMENSIONS OF ALL TREE GRATES, LANDSCAPE AREAS, STREET FURNITURE, PAVER LOCATIONS, CONCRETE SCORING, PARKING STALLS, NON–STANDARD CURB WIDTHS, ETC. PRIOR TO CONSTRUCTION OF SIDEWALK AND CURB AND GUTTER.
3. SIDEWALK REMOVAL LIMITS EXTEND TO FACE OF BUILDING UNLESS OTHERWISE NOTED ON THE PLANS.



TIED CURB & GUTTER DETAIL A

SCALE: 1"=5'H 1"=2.5'V

CONSTRUCTION NOTES

1. HMA CL 1/2 IN PG 64–22 0.83' COMPACTED DEPTH
2. CRUSHED SURFACING BASE COURSE 0.33' COMPACTED DEPTH
3. CRUSHED SURFACING TOP COURSE 0.33' COMPACTED DEPTH
4. CEMENT CONCRETE SIDEWALK 0.33' COMPACTED DEPTH PER CITY OF BOTHELL STANDARD PLAN 344 FINISH PER UD PLANS
5. CRUSHED SURFACING BASE COURSE 0.50' UNDER ROAD, 0.42' UNDER LANDSCAPE CURB, 0.75' UNDER CURB AND GUTTER, COMPACTED DEPTH
6. SEE PARKING STALL SECTION ON DETAIL SHEET DT3
7. SEE SHEETS LS–1 THROUGH LS–3 FOR SOIL TYPES AND DEPTHS
8. PRECAST DUAL FACED SLOPED MOUNTABLE CURB PER WSDOT STANDARD PLAN F–10.64–03
9. 6 INCH CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER CITY OF BOTHELL STANDARD PLAN 340 FINISH PER UD PLANS
10. CEMENT CONCRETE PAVEMENT 0.75' DEPTH
11. CONCRETE CURB TYPE E–2 PER CITY OF BOTHELL STANDARD PLAN 341 FINISH PER UD PLANS
12. SEE LANDSCAPING DETAILS FOR PLANTER CURBS
13. SEE BOTHELL STD CEMENT CONCRETE DRIVEWAY 347
14. EPOXY COATED #5 TIE BARS 30" LONG ON 36" CENTERS. TIE BARS SHALL NOT BE PLACED WITHIN 18" OF A TRANSVERSE JOINT.

A. SEE TIED CURB AND GUTTER DETAIL A

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

3/13/2017
ROBERT L. FERNANDES
REGISTERED PROFESSIONAL ENGINEER
STATE OF WASHINGTON

Drawn By RAV	Date 3/13/17	SCALE
Designed By JWA	3/13/17	Horiz
Checked By GHG	3/13/17	Vert
Approved By RLF	3/13/17	Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
TYPICAL SECTIONS – SHEET 1

Drawing No. TS1
Sheet No. 8 of 79 Total

Mar 15, 2017 - 4:46pm susann.babael O:\Seattle\2015\A15.0150\00\CAD\Dwgs\06_TS-01.dwg Layout Name: Layout1

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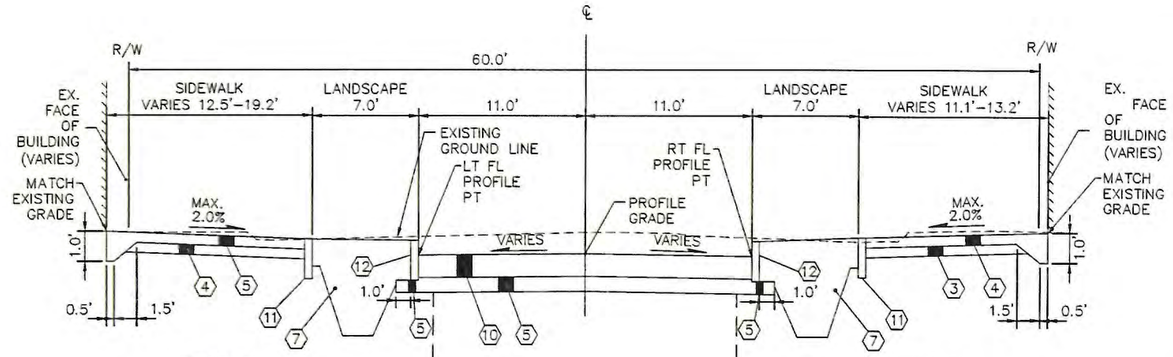
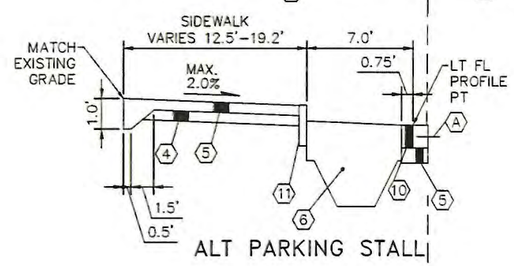
S.08 T.26N. R.05E. W.M.





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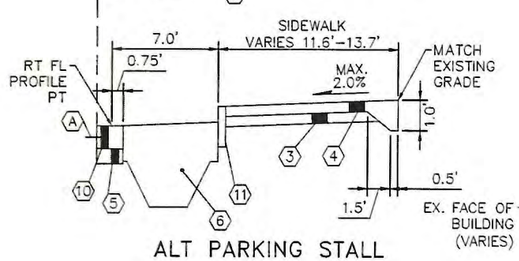

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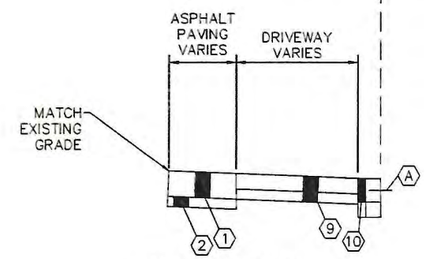
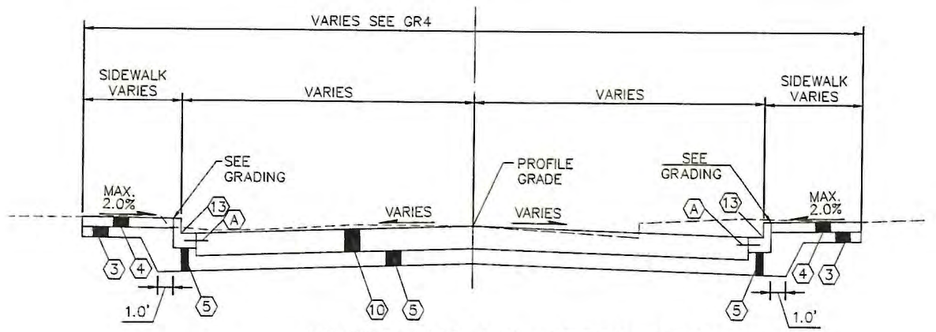


ALT DRIVEWAY

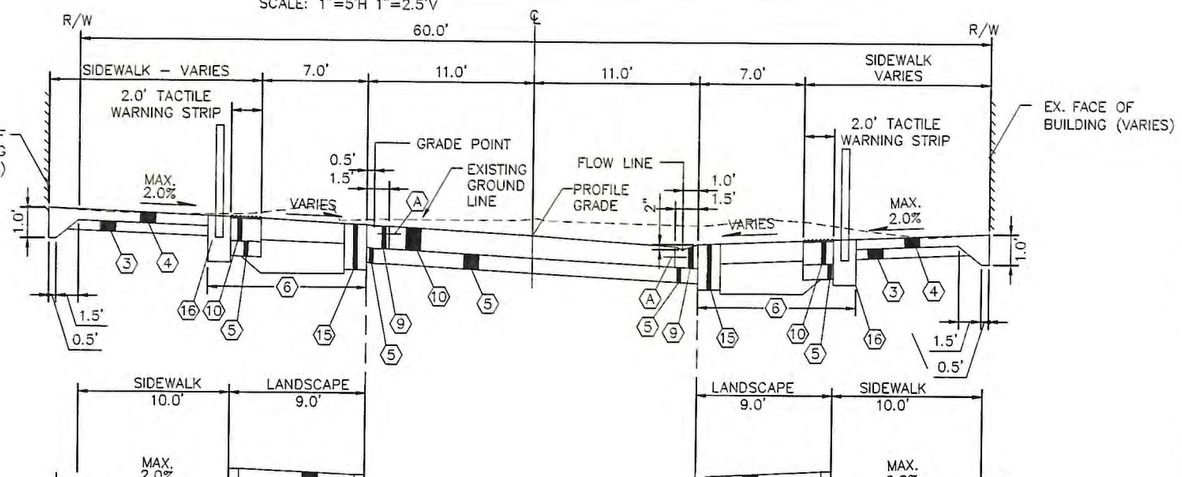
STA "M" 18+06.89 – STA "M" 20+09+97

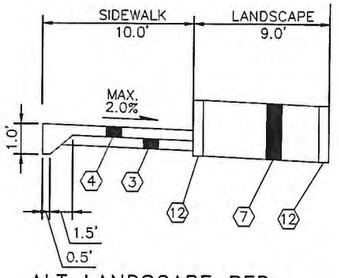
SCALE: 1"=5'H 1"=2.5'V



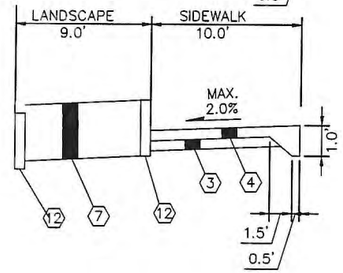
101ST AVE NE INTERSECTION
STA "M" 20.09.97 – STA "M" 21+02.45

SCALE: 1"=5'H 1"=2.5'V





ALT LANDSCAPE BED

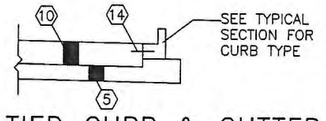


STA "M" 21+02.45 – STA "M" 22+29.86
STA "M" 22+82.03 – STA "M" 24+09.45

SCALE: 1"=5'H 1"=2.5'V

CONSTRUCTION NOTES

1. HMA CL 1/2 IN PG 64–22 0.83' COMPACTED DEPTH
2. CRUSHED SURFACING BASE COURSE 0.33' COMPACTED DEPTH
3. CRUSHED SURFACING TOP COURSE 0.33' COMPACTED DEPTH
4. CEMENT CONCRETE SIDEWALK 0.33' COMPACTED DEPTH PER CITY OF BOTHELL STANDARD PLAN 344 FINISH PER UD PLANS
5. CRUSHED SURFACING BASE COURSE 0.50' UNDER ROAD, 0.42' UNDER LANDSCAPE CURB, 0.75' UNDER CURB AND GUTTER, COMPACTED DEPTH
6. SEE DETAIL 3 ON SHEET DT–3 FOR PAVER SECTION
7. SEE SHEETS LS–1 THROUGH LS–3 FOR SOIL TYPES AND DEPTHS
8. PRECAST DUAL FACED SLOPED MOUNTABLE CURB PER WSDOT STANDARD PLAN F–10.64–03
9. SEE BOTHELL STD CEMENT CONCRETE DRIVEWAY 347
10. CEMENT CONCRETE PAVEMENT 0.75' DEPTH
11. CEMENT CONCRETE TRAFFIC CURB PER CITY OF BOTHELL STANDARD PLAN 340 FINISH PER UD PLAN
12. SEE LANDSCAPING DETAILS FOR PLANTER CURBS
13. 3 INCH CEMENT CONCRETE CURB AND GUTTER PER CITY OF BOTHELL STANDARD PLAN 340, DEPRESSED CURB. FINISH PER UD PLAN
14. EPOXY COATED #5 TIE BARS 30" LONG ON 36" CENTERS. TIE BARS SHALL NOT BE PLACED WITHIN 18" OF A TRANSVERSE JOINT.
- A. SEE TIED CURB AND GUTTER DETAIL A



TIED CURB & GUTTER DETAIL A

SCALE: 1"=5'H 1"=2.5'V

GENERAL NOTES

1. SEE GRADING PLANS FOR SLOPES AND SPOT ELEVATIONS.
2. SEE SHEETS UD1–UD4, L01–L04 AND DT1–DT8 FOR LOCATIONS AND DIMENSIONS OF ALL TREE GRATES, LANDSCAPE AREAS, STREET FURNITURE, PAVER LOCATIONS, CONCRETE SCORING, PARKING STALLS, NON–STANDARD CURB WIDTHS, ETC. PRIOR TO CONSTRUCTION OF SIDEWALK AND CURB AND GUTTER.
3. SIDEWALK REMOVAL LIMITS EXTEND TO FACE OF BUILDING UNLESS OTHERWISE NOTED ON THE PLANS.

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

3/13/2017

Drawn By RAV	Date 3/13/17	SCALE
Designed By JWA	3/13/17	Horiz
Checked By GHG	3/13/17	Vert
Approved By RLF	3/13/17	Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
TYPICAL SECTIONS – SHEET 2

Drawing No. TS2
Sheet No. 9 of 79 Total

Mar 15, 2017 - 4:48pm susann.babaei O:\Seattle\2015\A15.0150\00\CADD\Dwgs\05_TS-02.dwg Layout Name: Layout1

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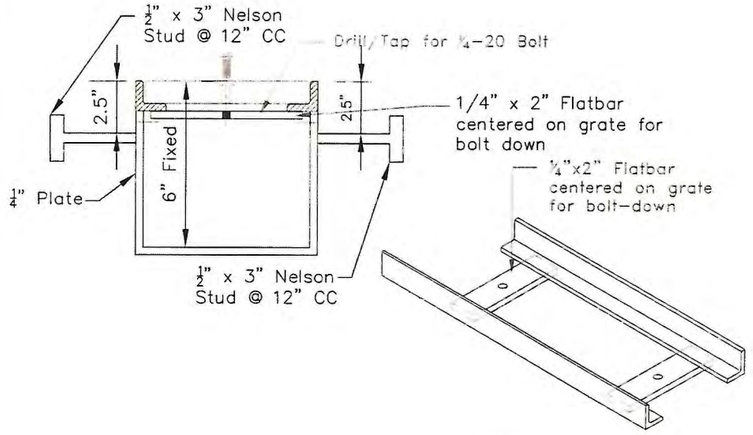
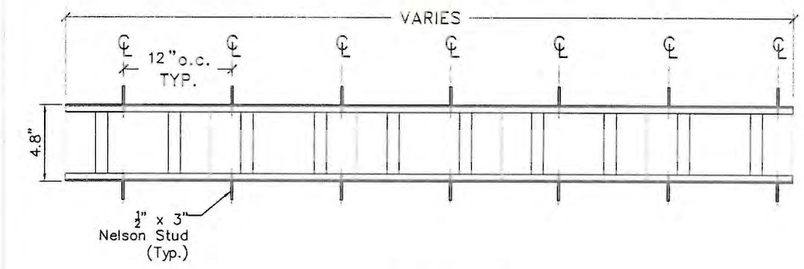


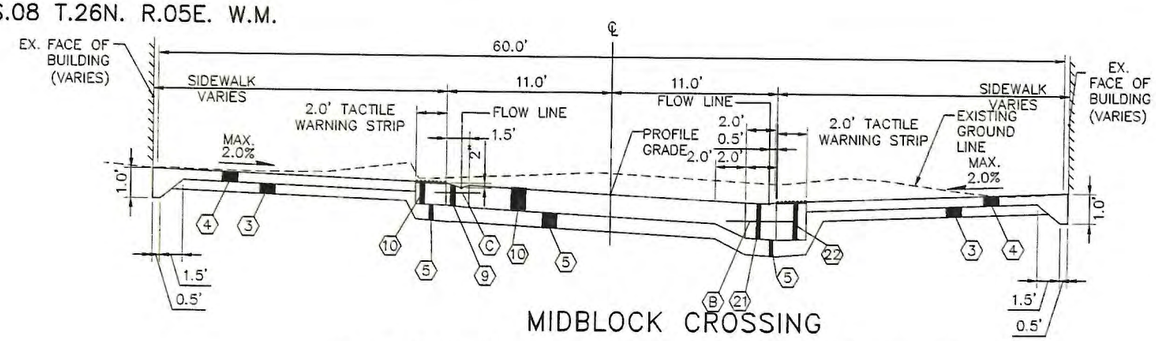
NOTES:
1. Material: Mild Steel
2. Finish: Powder Coat
3. All welds to be kept outside of grate bearing surfaces and away from outside edges of fabricated piece. Any welds made of surfaces that touch trough or grate to be ground smooth.



NOTES:
1. Material: Mild Steel
2. Powder Coat
3. All welds on bearing surfaces will be ground smooth

VEHICULAR TRENCH DRAIN FRAME DETAILS
N.T.S

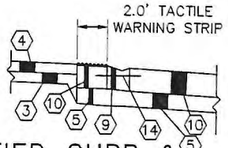
S.08 T.26N. R.05E. W.M.



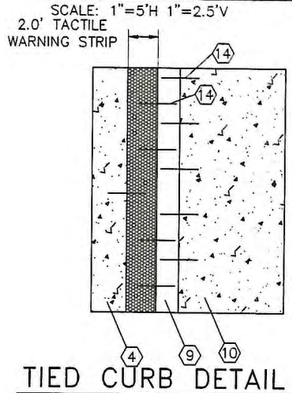
MIDBLOCK CROSSING
STA "M" 22+29.86 – STA "M" 22+82.03
SCALE: 1"=5'H 1"=2.5'V

GENERAL NOTES

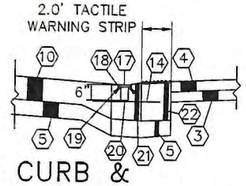
1. SEE INTERSECTION GRADING PLANS FOR STA. M 20+05.00 TO STA M 20+93.02. SEE LANDSCAPE PLANS FOR PAVER LOCATIONS.
2. SEE GRADING PLANS FOR SLOPES AND SPOT ELEVATIONS.
3. SEE SHEETS UD1–UD4, L01–L04 AND DT1–DT8 FOR LOCATIONS AND DIMENSIONS OF ALL TREE GRATES, LANDSCAPE AREAS, STREET FURNITURE, PAVER LOCATIONS, CONCRETE SCORING, PARKING STALLS, NON–STANDARD CURB WIDTHS, ETC. PRIOR TO CONSTRUCTION OF SIDEWALK AND CURB AND GUTTER.
4. SIDEWALK REMOVAL LIMITS TO FACE OF BUILDING UNLESS OTHERWISE NOTED ON PLANS



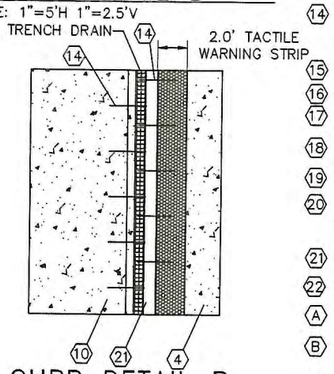
TIED CURB & GUTTER DETAIL C
SCALE: 1"=5'H 1"=2.5'V



TIED CURB DETAIL C
PLAN VIEW SCALE: 1" = 5' H



TIED CURB & GUTTER DETAIL B
SCALE: 1"=5'H 1"=2.5'V



TIED CURB DETAIL B
PLAN VIEW SCALE: 1" = 5' H

CONSTRUCTION NOTES

1. HMA CL 1/2 IN PG 64–22 0.83' COMPACTED DEPTH
2. CRUSHED SURFACING BASE COURSE 0.33' COMPACTED DEPTH
3. CRUSHED SURFACING TOP COURSE 0.33' COMPACTED DEPTH
4. CEMENT CONCRETE SIDEWALK 0.33' COMPACTED DEPTH PER CITY OF BOTHELL STANDARD PLAN 344 FINISH PER UD PLAN
5. CRUSHED SURFACING BASE COURSE 0.50' UNDER ROAD, 0.75' UNDER CURB AND GUTTER, COMPACTED DEPTH
6. SEE DETAIL 1 ON SHEET DT–3 FOR FLEX ZONE SECTION
7. SEE SHEETS LS–1 THROUGH LS–3 FOR SOIL TYPES AND DEPTHS
8. PRECAST DUAL FACED SLOPED MOUNTABLE CURB PER WSDOT STANDARD PLAN F–10.64–03
9. PIGMENTED CEMENT CONCRETE PAVEMENT 0.75' DEPTH
10. CEMENT CONCRETE PAVEMENT 0.75' DEPTH
11. CEMENT CONCRETE TRAFFIC CURB PER CITY OF BOTHELL STANDARD PLAN 340
12. 12" CURB WALL, SEE DETAILS ON SHEET DT–4
13. 3 INCH CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER CITY OF BOTHELL STANDARD PLAN 340, DEPRESSED CURB SECTION. FINISH PER UD PLAN
14. EPOXY COATED #5 TIE BARS 30" LONG ON 36" CENTERS. TIE BARS SHALL NOT BE PLACED WITHIN 18" OF A TRANSVERSE JOINT.
15. 1'–7" BOLLARD FOOTING SEE SHEET S1 FOR DETAILS
16. 2.0' BOLLARD FOOTING SEE SHEET S1 FOR DETAILS
17. TRENCH GRATE PER MANUFACTURER SIZED TO FIT. SEE SHEET DT6 FOR DETAILS.
18. CURVED STEEL STOCK BASE, SEE TRENCH DRAIN FRAME DETAILS, THIS SHEET.
19. STUD ANCHOR, SEE TRENCH DRAIN FRAME DETAILS, THIS SHEET.
20. 6 ⅛" WIDE. BOTTOM OF TRENCH DRAIN TO MATCH ROAD SLOPE AT 1% TO STORM CONNECTION, 4" EXIT PIPE TO CONNECT TO NEAREST CATCH BASIN.
21. PIGMENTED CEMENT CONCRETE PAVEMENT 15" DEPTH
22. CEMENT CONCRETE PAVEMENT 15" DEPTH
- (A) SEE TIED CURB AND GUTTER DETAIL A
- (B) SEE TIED CURB AND GUTTER DETAIL B. TIE TACTILE STRIP TO (9) THEN TIE (9) TO (10)
- (C) SEE TIED CURB AND GUTTER DETAIL C. TIE TACTILE STRIP TO (21) THEN TIE (21) TO (10)

CONFORMED PLANS

No.	Date	Revision	By	Appr.
2/2		Revised Detail Title	SB	NAS

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

3/13/2017

Drawn By	Date
RAV	3/13/17
Designed By JWA	3/13/17
Checked By GHG	3/13/17
Approved By RLF	3/13/17

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
TYPICAL SECTIONS – SHEET 3

Drawing No. TS3
Sheet No. 10 of Total 79

Mar 16, 2017 - 9:04am susann.babinet O:\Seattle\2015\A15.0150\00\CAD\Dwgs\06_TS-03.dwg Layout Name: Layout1

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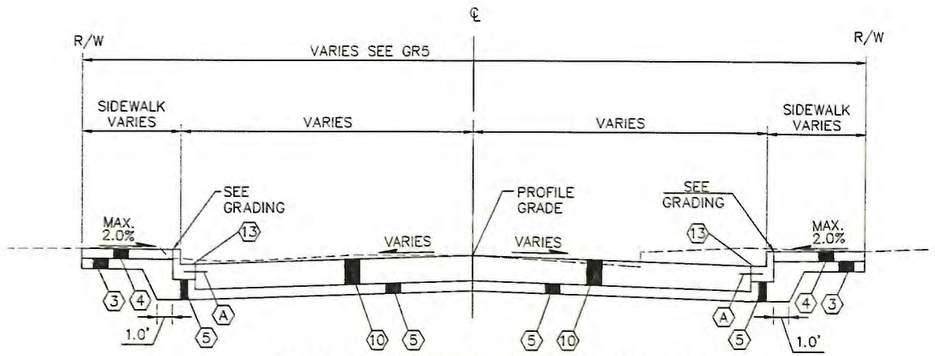
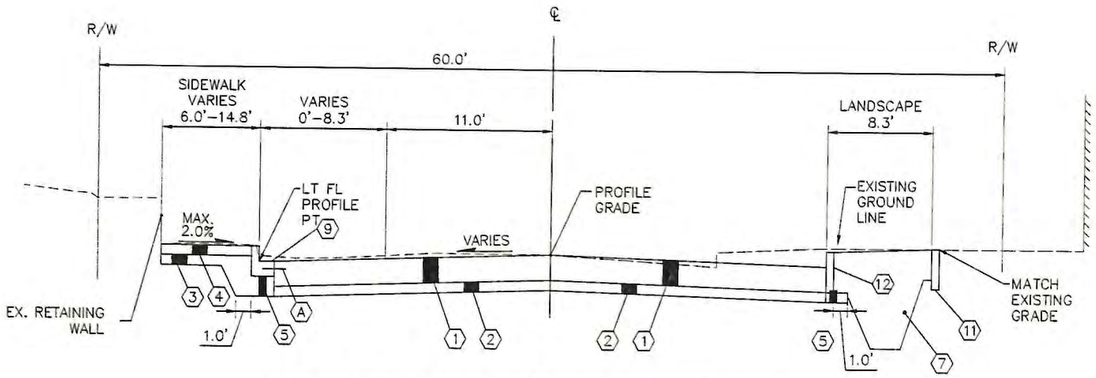
S.08 T.26N. R.05E. W.M.



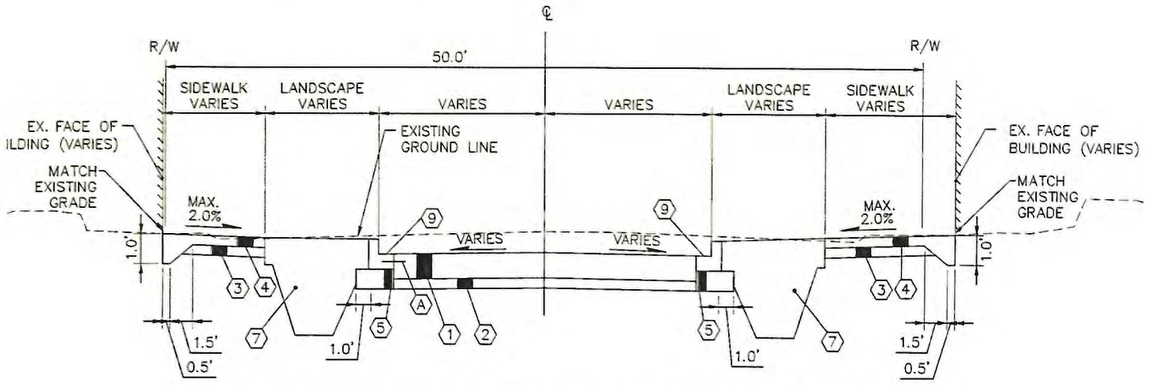
102ND AVE NE INTERSECTION
STA "M" 24+09.45 – STA "M" 24+97.38

SCALE: 1"=5'H 1"=2.5'V



STA "M" 25+97.38 – STA "M" 25+30.12

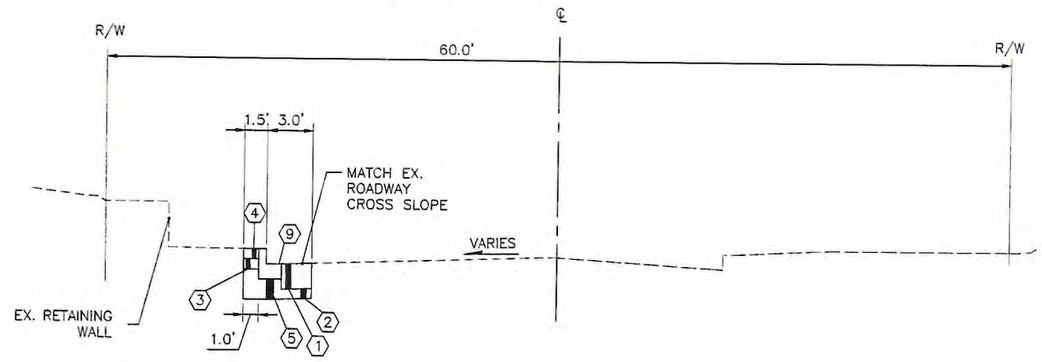
SCALE: 1"=5'H 1"=2.5'V



101ST AVE AND 102ND AVE TYPICAL SECTION AFTER 3" CURB TRANSITION

SCALE: 1"=5'H 1"=2.5'V

SEE GRADING PLANS FOR DIMENSIONS AND ELEVATIONS



STA "M" 25+30.12 – STA "M" 26+21.50

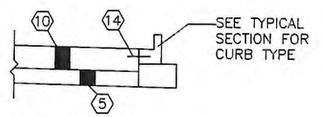
SCALE: 1"=5'H 1"=2.5'V

CONSTRUCTION NOTES

1. HMA CL 1/2 IN PG 64–22 0.83' COMPACTED DEPTH
2. CRUSHED SURFACING BASE COURSE 0.33' COMPACTED DEPTH
3. CRUSHED SURFACING TOP COURSE 0.33' COMPACTED DEPTH
4. CEMENT CONCRETE SIDEWALK 0.33' COMPACTED DEPTH PER CITY OF BOTHELL STANDARD PLAN 344 FINISH PER UD PLAN
5. CRUSHED SURFACING BASE COURSE 0.50' UNDER ROAD, 0.75' UNDER CURB AND GUTTER, COMPACTED DEPTH
6. SEE DETAIL 1 ON SHEET DT–3 FOR FLEX ZONE SECTION
7. SEE SHEETS LS–1 THROUGH LS–3 FOR SOIL TYPES AND DEPTHS
8. DUAL–FACED PRECAST SLOPED MOUNTABLE CURB PER WSDOT STANDARD PLAN F–10.64–03
9. 6 INCH CEMENT CONCRETE CURB AND GUTTER PER CITY OF BOTHELL STANDARD PLAN 340 FINISH PER UD PLAN
10. CEMENT CONCRETE PAVEMENT 0.75' DEPTH
11. CEMENT CONCRETE TRAFFIC CURB PER CITY OF BOTHELL STANDARD PLAN 340 FINISH PER UD PLAN
12. 12" CURB WALL, SEE DETAILS ON SHEET DT–4
13. 3 INCH CEMENT CONCRETE CURB AND GUTTER PER CITY OF BOTHELL STANDARD PLAN 340, DEPRESSED CURB. FINISH PER UD PLAN
14. EPOXY COATED #5 TIE BARS 30" LONG ON 36" CENTERS. TIE BARS SHALL NOT BE PLACED WITHIN 18" OF A TRANSVERSE JOINT.
- A. SEE TIED CURB AND GUTTER DETAIL A

GENERAL NOTES

1. SEE INTERSECTION GRADING PLANS FOR STA. M 24+15.76 TO STA M 25+04.05.
2. SEE GRADING PLANS FOR SLOPES AND SPOT ELEVATIONS.
3. SEE SHEETS UD1–UD4, LO1–LO4 AND DT1–DT8 FOR LOCATIONS AND DIMENSIONS OF ALL TREE GRATES, LANDSCAPE AREAS, CONCRETE SCORING, STREET FURNITURE, PAVER LOCATIONS, PARKING STALLS, NON–STANDARD CURB WIDTHS, ETC. PRIOR TO CONSTRUCTION OF SIDEWALK AND CURB AND GUTTER.
4. SIDEWALK REMOVAL LIMITS EXTEND TO FACE OF BUILDING UNLESS OTHERWISE NOTED ON THE PLANS.



TIED CURB & GUTTER DETAIL A

SCALE: 1"=5'H 1"=2.5'V

3/13/2017

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

Drawn By RAV	Date 3/13/17	SCALE Horiz	CITY OF BOTHELL
Designed By JWA	3/13/17	Vert	MAIN STREET ENHANCEMENT
Checked By GHG	3/13/17	Project Number A15.0150	TYPICAL SECTIONS – SHEET 4
Approved By RLF	3/13/17		Drawing No. TS4
			Sheet No. 11 of Total 79

Mar 15, 2017 - 4:50pm susann.babael Q:\Seattle\2015\A15.0150\00\CADD\Dwgs\06_TS-04.dwg Layout Name: Layout1

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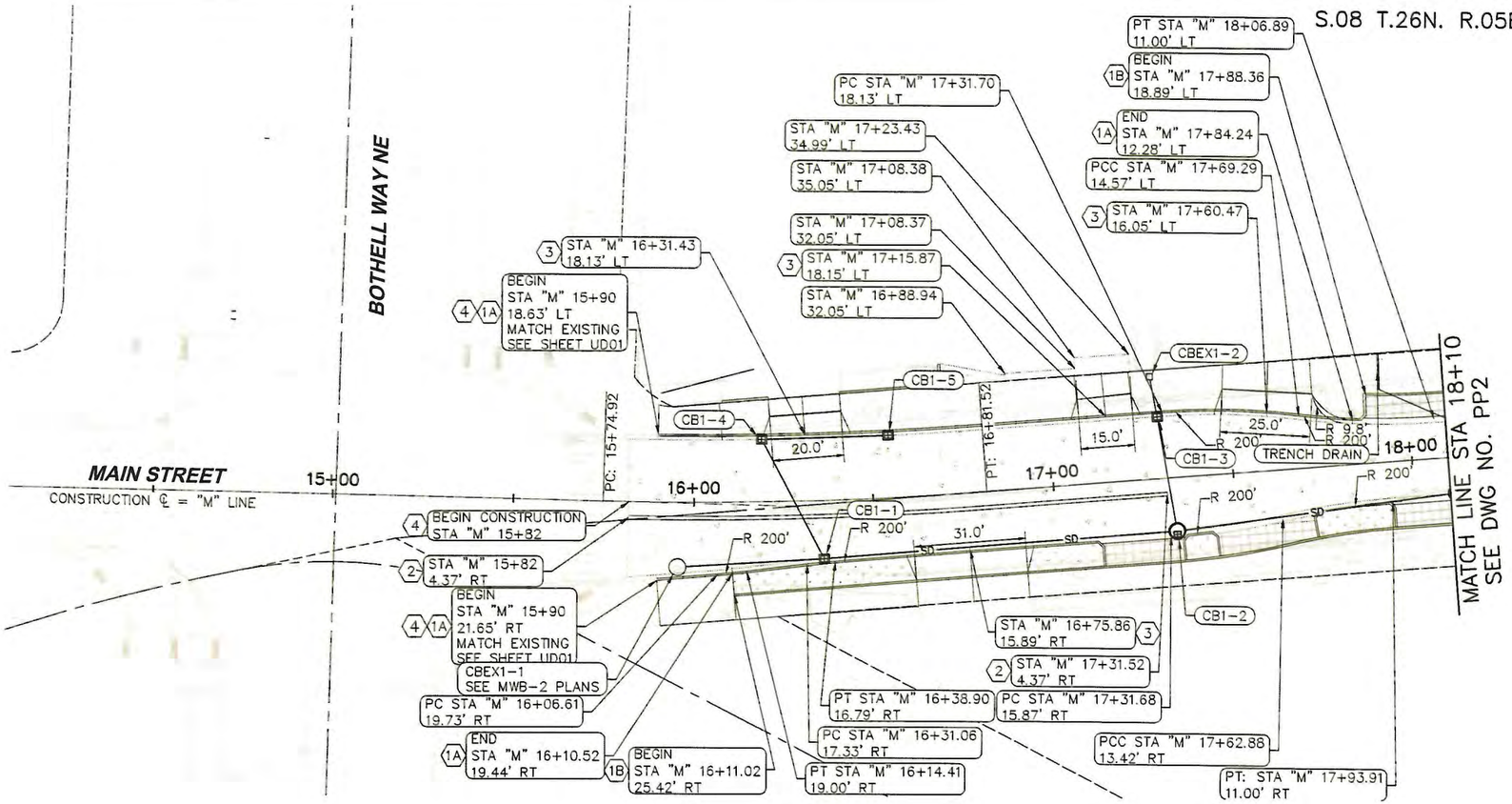


CONSTRUCTION NOTES

1A CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER CITY OF BOTHELL STD PLAN 340

1B CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER CITY OF BOTHELL STD PLAN 341

2 CONSTRUCT PRECAST DUAL FACED SLOPED MOUNTABLE CURB PER WSDOT STANDARD PLAN F-10.64-03

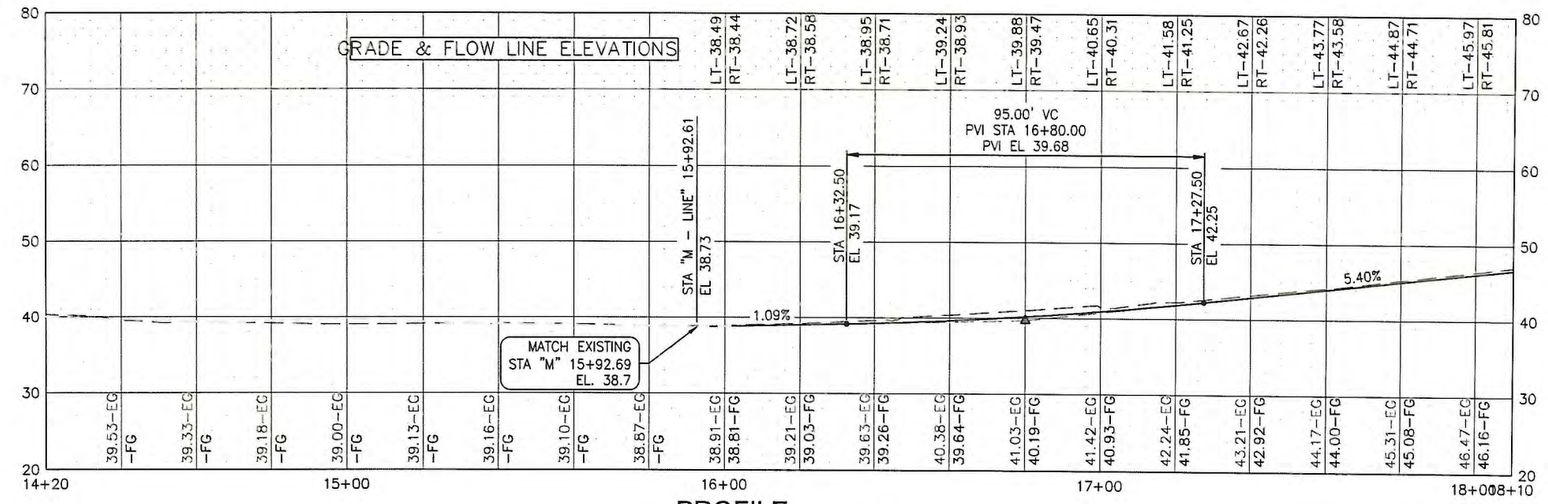
3 CONSTRUCT CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 2 PER CITY OF BOTHELL STD PLAN 347, STATION AND OFFSET MEASURED AT CENTERLINE OF DRIVEWAY AT FACE OF CURB

4 SEE ALIGNMENT SHEETS FOR NOTES REGARDING VERTICAL DATUM DIFFERENCES WITH ADJACENT PROJECT.

SCALE
20 10 0 20 40
FEET

LEGEND

- CEMENT CONCRETE PAVEMENT
- LANDSCAPE
- CEMENT CONCRETE PAVERS
- CEMENT CONCRETE SIDEWALK
- HOT MIXED ASPHALT PAVEMENT
- TACTILE WARNING STRIP
- PAVEMENT PLANING AND OVERLAY PER CITY OF BOTHELL STD PLAN 318
- PERPENDICULAR CURB RAMP, TYPE A PER CITY OF BOTHELL STD PLAN 350



PROFILE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)

GENERAL NOTES

1. SEE GRADING PLANS FOR CURB RETURN DATA.
2. SEE STORM DRAINAGE PROFILES FOR CATCH BASIN LOCATIONS AND PIPING PROFILES.
3. SEE SHEETS LO1-LO5 AND DT1-DT2 FOR CURB LAYOUT
4. SEE SHEETS UD1-UD4, LO1-LO4 AND DT1-DT8 FOR LOCATIONS AND DIMENSIONS OF ALL TREE GRATES, LANDSCAPE AREAS, STREET FURNITURE, PAVER LOCATIONS, PARKING STALLS, ETC. PRIOR TO CONSTRUCTION OF SIDEWALK AND CURB AND GUTTER.
5. ADA RAMPS SHALL BE CONSTRUCTED TO COMPLY WITH THE SLOPES SHOWN ON THE STANDARD PLAN. IF THE RAMPS ARE CONSTRUCTED STEEPER THAN THE REQUIRED SLOPES, THEY MUST BE REMOVED AND REPOURED AT THE CONTRACTORS OWN COST. CONTRACTOR SHALL ENSURE THAT ALL RAMPS ARE IN COMPLIANCE WITH THE MOST CURRENT PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG).

No.	Date	Revision	By	Appr.

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City of Bothell

3/13/2017

Drawn By RAV	Date 3/13/17	SCALE Horiz	CITY OF BOTHELL
Designed By JWA	3/13/17	Vert	MAIN STREET ENHANCEMENT
Checked By GHG	3/13/17	Project Number A15.0150	PLAN & PROFILE – SHEET 1
Approved By RLF	3/13/17		

Drawing No. PP1
Sheet No. 12 of Total 79

CONFORMED PLANS

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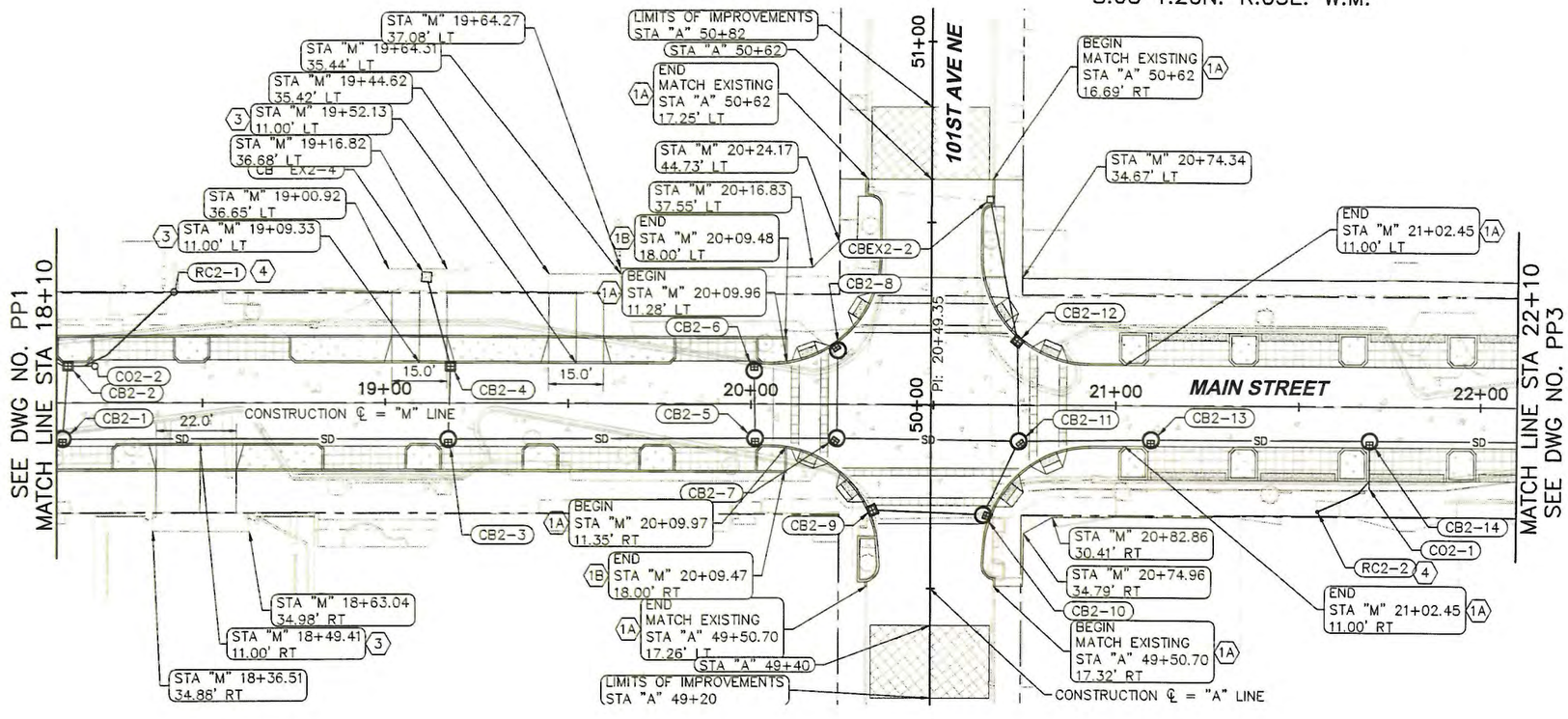

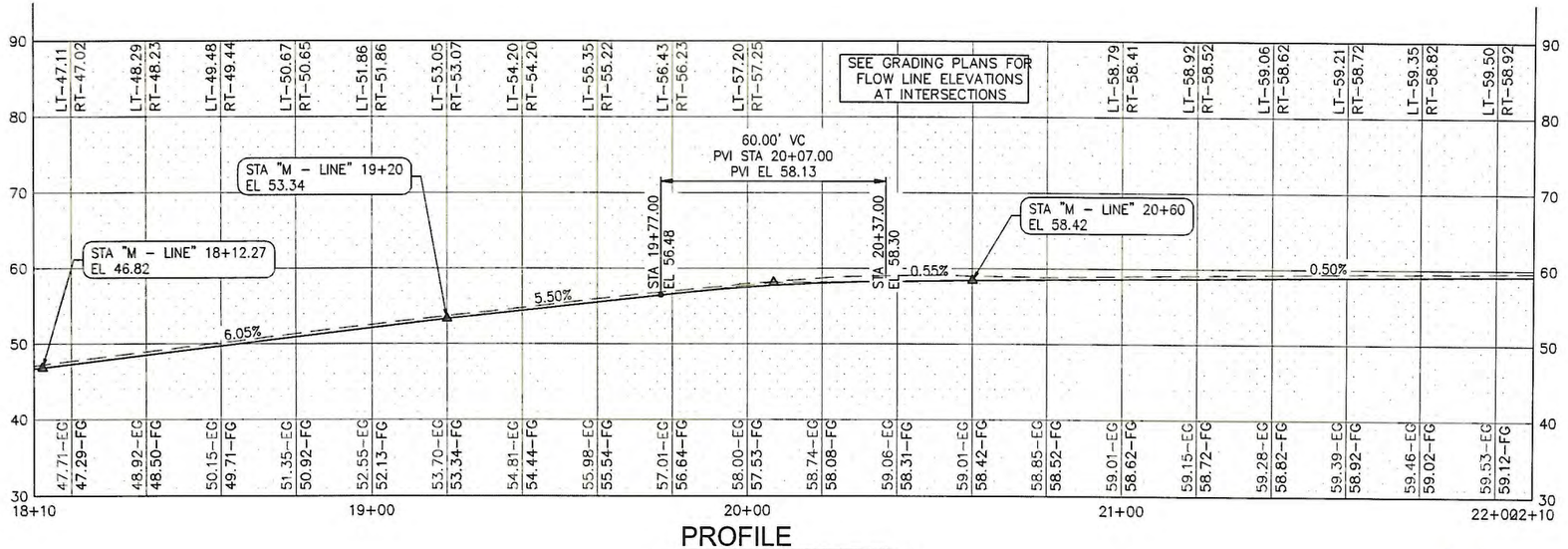

PROFILE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)

CONSTRUCTION NOTES

1A CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER CITY OF BOTHELL STD PLAN 340

1B CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER CITY OF BOTHELL STD PLAN 341

2 CONSTRUCT PRECAST DUAL FACED SLOPED MOUNTABLE CURB PER WSDOT STANDARD PLAN F-10.64-03

3 CONSTRUCT CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 2 PER CITY OF BOTHELL STD PLAN 347, STATION AND OFFSET MEASURED TO CENTERLINE OF DRIVEWAY AT FACE OF CURB

4 CONNECT ROOF DRAIN DOWNSPOUT TO STORM DRAIN. SEE SHEET SD-2 FOR DETAILS.

SCALE
20 10 0 FEET 20 40

LEGEND

- CEMENT CONCRETE PAVEMENT
- LANDSCAPE
- CEMENT CONCRETE PAVERS
- CEMENT CONCRETE SIDEWALK
- HOT MIXED ASPHALT PAVEMENT
- TACTILE WARNING STRIP
- PAVEMENT PLANING AND OVERLAY PER CITY OF BOTHELL STD PLAN 318
- PERPENDICULAR CURB RAMP, TYPE A PER CITY OF BOTHELL STD PLAN 350

GENERAL NOTES

1. SEE GRADING PLANS FOR CURB RETURN DATA.
2. SEE STORM DRAINAGE PROFILES FOR CATCH BASIN LOCATIONS AND PIPING PROFILES.
3. SEE SHEETS LO1-LO5 AND DT1-DT2 FOR CURB LAYOUT
4. SEE SHEETS UD1-UD4, LO1-LO4 AND DT1-DT8 FOR LOCATIONS AND DIMENSIONS OF ALL TREE GRATES, LANDSCAPE AREAS, STREET FURNITURE, PAVER LOCATIONS, PARKING STALLS, ETC. PRIOR TO CONSTRUCTION OF SIDEWALK AND CURB AND GUTTER.
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No.	Date	Revision	By	Appr.

BergerABAM
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(206) 357-5600 FAX: (206) 357-5601

City of Bothell

3/13/2017

ROBERT L. FERNANDES — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

Drawn By SB	Date 3/13/17	SCALE Horiz	
Designed By JWA	3/13/17	Vert	
Checked By GHG	3/13/17	Project Number A15.0150	
Approved By RLF	3/13/17		

CONFORMED PLANS

CITY OF BOTHELL

MAIN STREET ENHANCEMENT

PLAN & PROFILE – SHEET 2

Drawing No. PP2

Sheet No. 13 of Total 79

Mar 15, 2017 - 4:56pm susann.babaei O:\Seattle\2015\A15.0150\00\CADD\dwgs\07_PP-02.dwg Layout Name: Layout1

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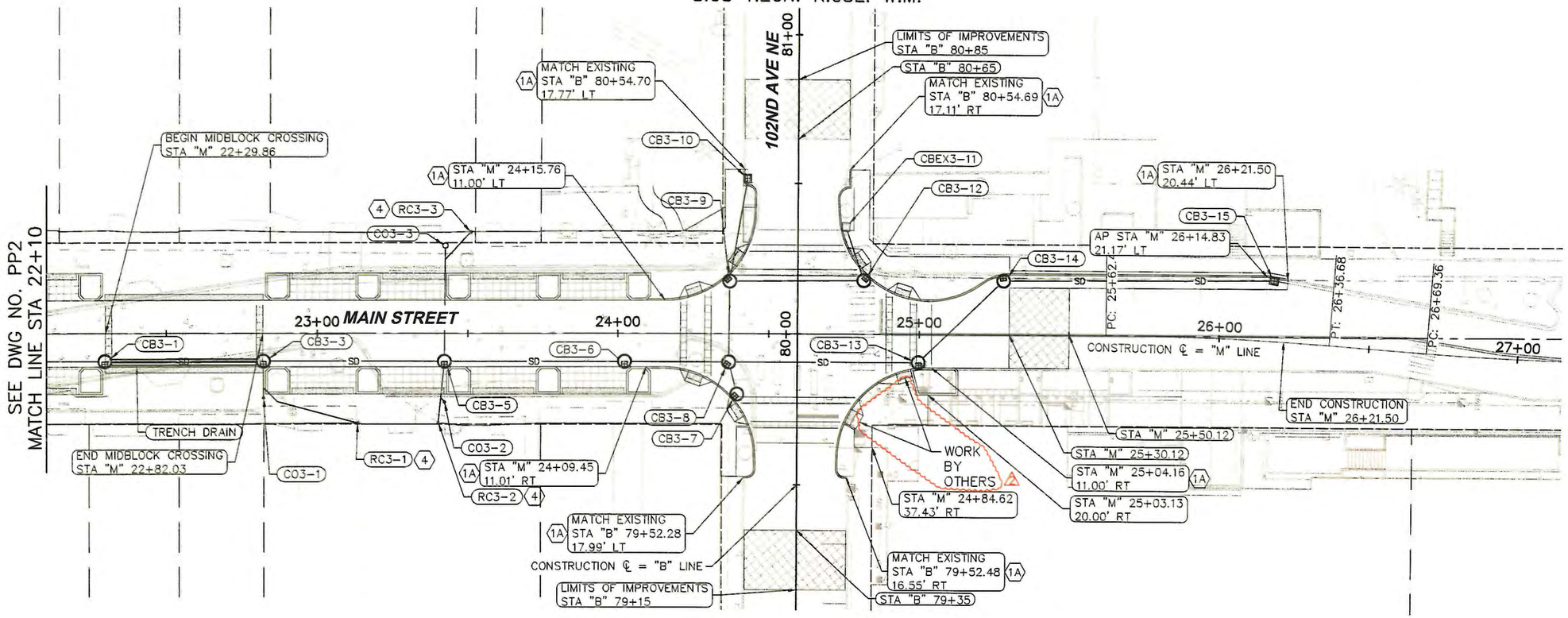

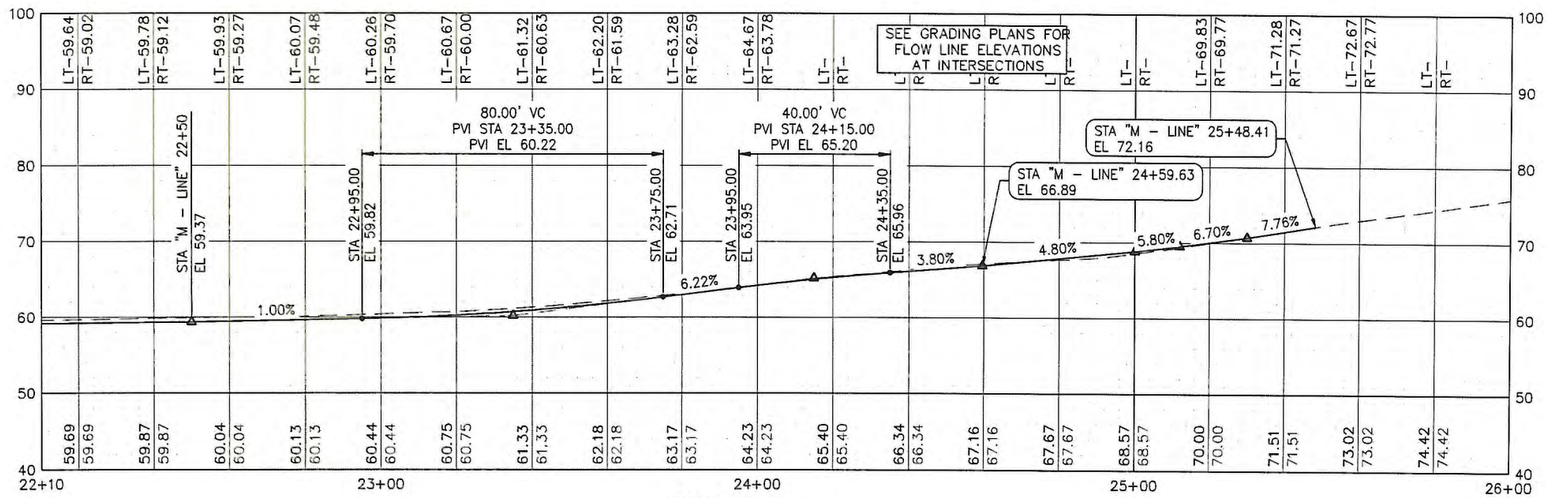

PROFILE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)

SCALE

20 10 0 20 40
FEET

CONSTRUCTION NOTES

1A CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER CITY OF BOTHELL STD PLAN 340

1B CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER CITY OF BOTHELL STD PLAN 341

2 CONSTRUCT PRECAST DUAL FACED SLOPED MOUNTABLE CURB PER WSDOT STANDARD PLAN F-10.64-03

3 CONSTRUCT CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 2 PER CITY OF BOTHELL STD PLAN 347, STATION AND OFFSET MEASURED AT CENTERLINE OF DRIVEWAY AT FACE OF CURB

4 CONNECT ROOF DRAIN DOWNSPOUT TO STORM DRAIN. SEE SHEET SD-2 FOR DETAILS.

LEGEND

- CEMENT CONCRETE PAVEMENT
- LANDSCAPE
- CEMENT CONCRETE PAVERS
- CEMENT CONCRETE SIDEWALK
- HOT MIXED ASPHALT PAVEMENT
- TACTILE WARNING STRIP
- PAVEMENT PLANING AND OVERLAY PER CITY OF BOTHELL STD PLAN 318
- PERPENDICULAR CURB RAMP, TYPE A PER CITY OF BOTHELL STD PLAN 350

GENERAL NOTES

1. SEE GRADING PLANS FOR CURB RETURN DATA.
2. SEE STORM DRAINAGE PROFILES FOR CATCH BASIN LOCATIONS AND PIPING PROFILES.
3. SEE SHEETS LO1–LO5 AND DT1–DT2 FOR CURB LAYOUT
4. SEE SHEETS UD1–UD4, LO1–LO4 AND DT1–DT8 FOR LOCATIONS AND DIMENSIONS OF ALL TREE GRATES, LANDSCAPE AREAS, STREET FURNITURE, PAVER LOCATIONS, PARKING STALLS, ETC. PRIOR TO CONSTRUCTION OF SIDEWALK AND CURB AND GUTTER.
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No.	Date	Revision	By	Appr.
2	2/2	Revised ADA Ramps	SB	NAS

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City of Bothell

3/13/2017

ROBERT L. FERNANDES — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

Drawn By RAV	Date 3/13/17	SCALE
Designed By JWA	3/13/17	Horiz
Checked By GHG	3/13/17	Vert
Approved By RLF	3/13/17	Project Number A15.0150

CONFORMED PLANS

CITY OF BOTHELL

MAIN STREET ENHANCEMENT

PLAN & PROFILE – SHEET 3

Drawing No. PP3

Sheet No. 14 of 79 Total

Mar 16, 2017 - 9:07am susann.babaei O:\Seattle\2015\A15.0150\00\CADD\Dwgs\07_PP-03.dwg Layout Name: Layout1

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S.07 & 08 T.26N. R.05E. W.M.

BOTHELL WAY NE

SEE GRADING DETAIL A BELOW

MAIN STREET

CONSTRUCTION ℄ = "M" LINE

15+00 16+00 17+00 18+00

MATCH LINE STA 18+10
SEE DWG NO. GR2

BEGIN CONSTRUCTION
STA "M" 15+82

STA "M" 16+11.06, 25.92' RT
BOC: 39.03

STA "M" 16+60.75, 23.59' RT
BOC: 39.46

STA "M" 16+91.27, 23.37' RT
BOC: 40.46

STA "M" 17+12.91, 23.37' RT
BOC: 41.44

STA "M" 17+35.67, 23.25' RT
BOC: 42.54

STA "M" 17+44.78, 22.96' RT
TOW: 43.10

STA "M" 17+72.25, 19.72' RT
TOW: 44.80

STA "M" 17+94.16, 18.50' RT
BOC: 46.04

STA "M" 17+87.72, 19.46' LT
BOC: 45.87

STA "M" 17+73.43, 20.30' LT
TOW: 45.08

STA "M" 17+48.60, 23.51' LT
TOW: 43.73

STA "M" 17+23.15, 24.05' LT
TOW: 42.33

STA "M" 17+08.16, 23.46' LT
TOW: 41.59

DW1 DW2 DW3 DW4

STA "M" 16+07.85, 28.06' LT MATCH EXISTING

STA "M" 16+07.90 27.39' LT MATCH EXISTING

STA "M" 16+10.93, 28.28' LT TOW: 39.63

STA "M" 16+10.98, 27.61' LT TOW: 39.13

STA "M" 16+17.97, 28.74' LT TOW: 40.23'

STA "M" 16+21.05, 28.92' LT TOW: 40.27

STA "M" 16+21.09, 28.25' LT TOW: 39.27

STA "M" 16+18.01, 28.07' LT TOW: 39.23

STA "M" 16+21.39, 23.46' LT TOW: 39.22

STA "M" 16+41.64 29.86' LT BOC: 49.56

STA "M" 16+70.02 35.98' LT MATCH EXISTING

STA "M" 16+70.07 30.58' LT BOC: 41.17

STA "M" 16+41.66, 29.26' LT TOW: 39.56

STA "M" 16+70.08 29.98' LT TOW: 40.17

STA "M" 16+70.71 35.99' LT MATCH EXISTING

STA "M" 16+70.77 29.99' LT TOW: 40.20

STA "M" 16+41.86, 24.46' LT TOW: 39.49

GRADING DETAIL A*

SCALE: 1" = 5', SEE ABOVE

*SEE NOTE REGARDING VERTICAL DATUM DIFFERENCES WITH MWB ON SHEET AL1

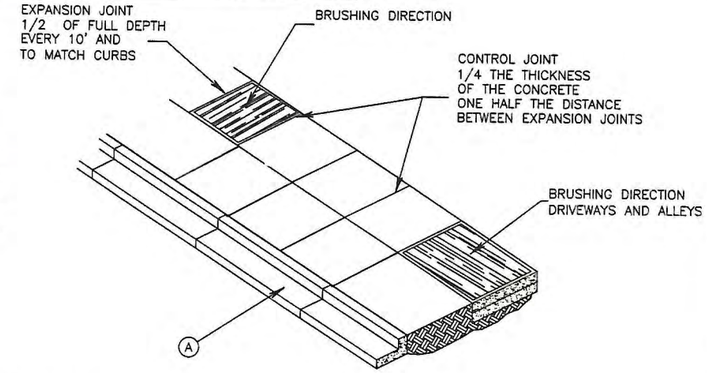
LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR

N

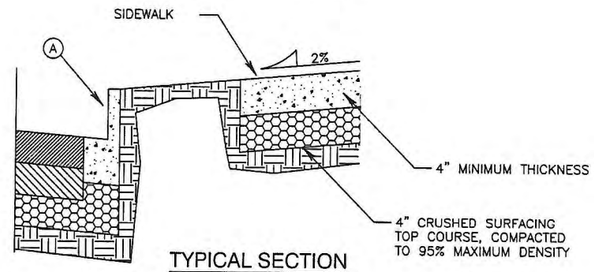
SCALE
20 10 0 20 40
FEET

DRIVEWAY ENTRANCE SLOPES		
ID	RAMP SLOPE	SIDEWALK SLOPE
DW1	9.40%	1.10%
DW2	10.10%	1.20%
DW3	10.00%	2.00%
DW4	8.80%	1.70%



(A) CONCRETE CURB AND GUTTER
SEE STD DETAIL 340

ISOMETRIC VIEW



TYPICAL SECTION

NOTES

1. SEE TYPICAL SECTIONS FOR SIDEWALK DIMENSIONS.
2. THE SIDEWALK AREA THROUGH THE DRIVEWAY SHALL BE 6" THICK. SEE DETAILS 346 AND 347 FOR THIS AREA.
3. SIDEWALKS SHALL ALL BE CLASS 3000 CEMENT CONCRETE, WITH AIR ENTRAINMENT (MIN. 4%, MAX. 8%).
4. SUB GRADE SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY.
5. SIDEWALK JOINTS SHALL BE EDGED WITH A 1/4" INCH RADIUS EDGER. SIDEWALK EDGES SHALL BE TOOLED WITH A 1/2" INCH RADIUS EDGER.
6. THE FINISHED SURFACE SHALL BE BRUSHED IN A TRANSVERSE DIRECTION EXCEPT THAT AREA AT DRIVEWAYS AND ALLEY CROSSINGS, WHERE IT SHALL BE BRUSHED LONGITUDINALLY.
7. THE FINISHED SIDEWALK SHALL BE SPRAYED WITH A TRANSPARENT CURING COMPOUND COVERED BY WATERPROOF PAPER OR PLASTIC SHEETING IN THE EVENT OF RAIN OR OTHER INCLEMENT WEATHER. CURING TIME SHALL BE FOR A MINIMUM OF 72 HOURS.

SIDEWALK CONSTRUCTION DETAIL

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
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(206) 357-5600 FAX: (206) 357-5601

City of Bothell

3/13/2017

ROBERT L. FERNANDES — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON — 23705

Drawn By RAV	Date 3/13/17	SCALE	
Designed By JWA	3/13/17	Horiz	
Checked By GHG	3/13/17	Vert	
Approved By RLF	3/13/17	Project Number A15.0150	

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
GRADING – SHEET 1

Drawing No. GR1
Sheet No. 15 of Total 79

Mar 15, 2017 - 5:00pm susann.babaei O:\Seattle\2015\A15.0150\00\CADD\Dwgs\08_GR-01.dwg Layout Name: Layout1

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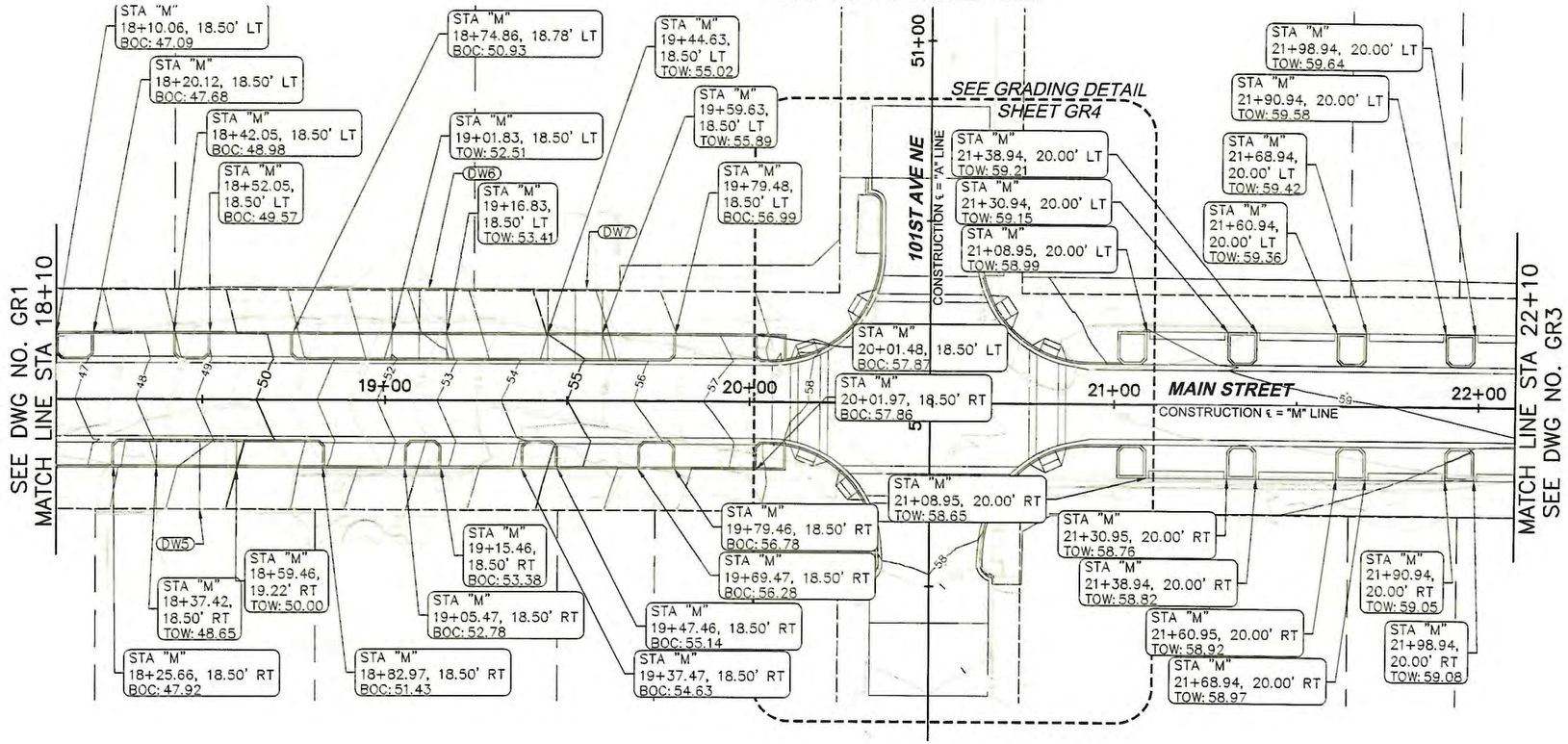
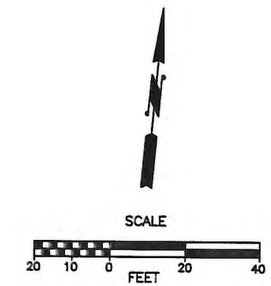
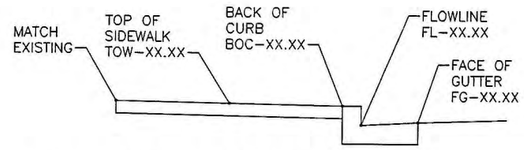




LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR

DRIVEWAY ENTRANCE SLOPES		
ID	RAMP SLOPE	SIDEWALK SLOPE
DW5	8.20%	1.70%
DW6	8.00%	1.90%
DW7	8.60%	1.90%



1 WORK POINT DETAIL
SCALE: NTS

No.	Date	Revision	By	Appr.

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City of Bothell

3/13/2017

Drawn By RAV	Date 3/13/17	SCALE	
Designed By JWA	3/13/17	Horiz	
Checked By GHG	3/13/17	Vert	
Approved By RLF	3/13/17	Project Number A15.0150	

CONFORMED PLANS

CITY OF BOTHELL

MAIN STREET ENHANCEMENT

GRADING – SHEET 2

Drawing No. GR2

Sheet No. 16 of Total 79

Mar 15, 2017 - 5:01pm susann.babael O:\Seattle\2015\A15.0150\00\CADD\Dwgs\08_GR-02.dwg Layout Name: Layout1

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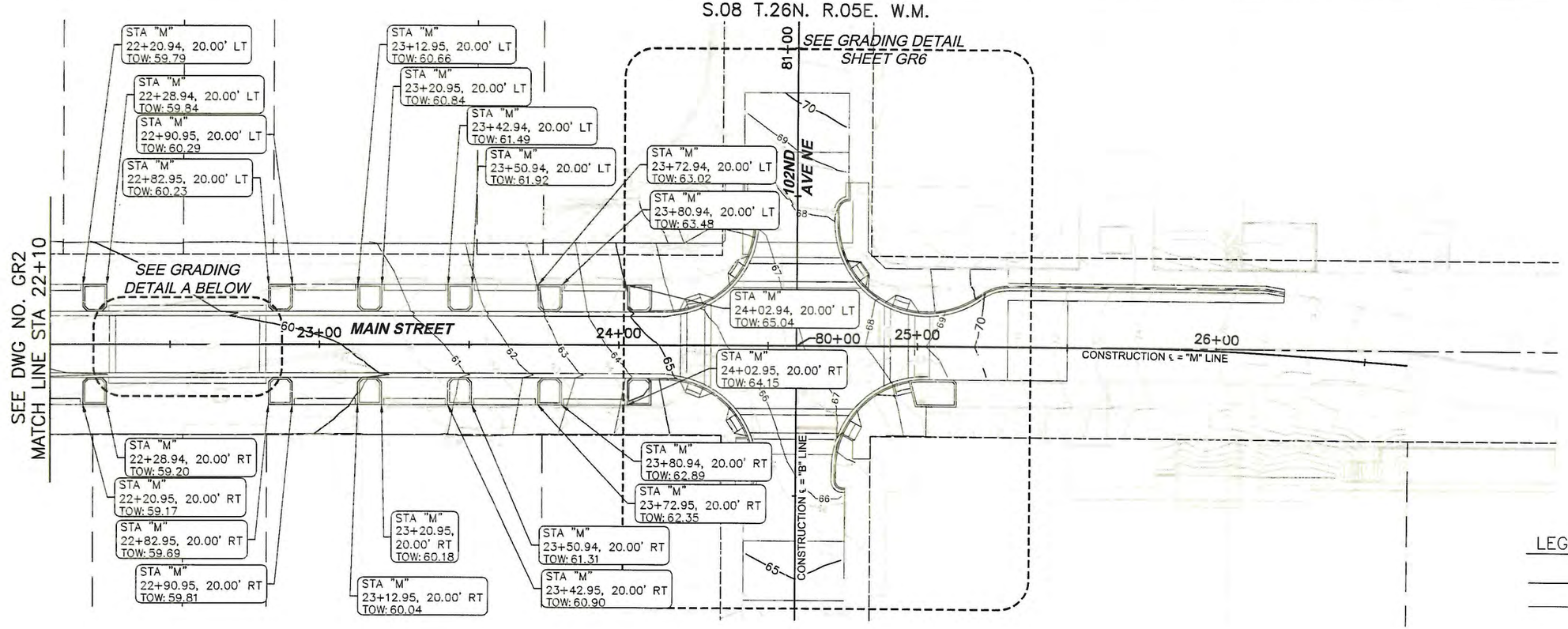
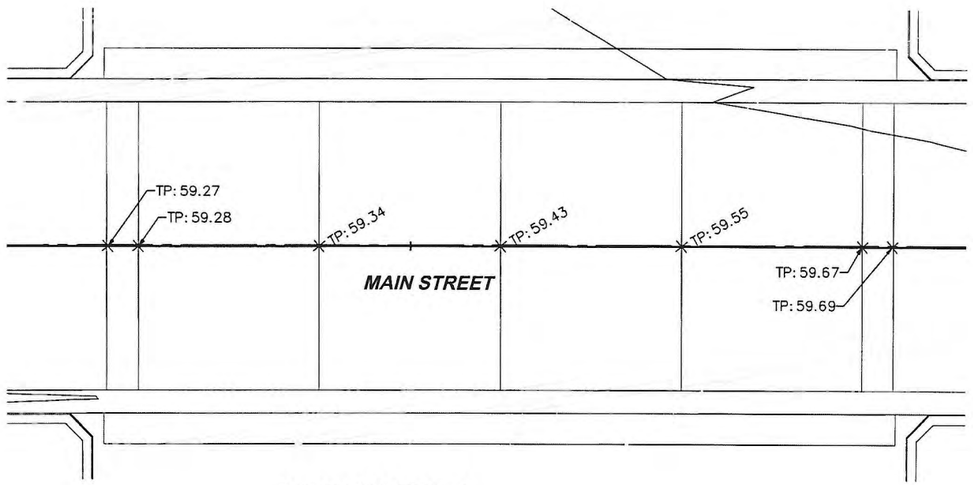
S.08 T.26N. R.05E. W.M.



SCALE
20 10 0 20 40
FEET

LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- +TP:XX.XX SPOT ELEVATION



GRADING DETAIL A
SCALE: 1" = 5', SEE ABOVE

3/13/2017

CONFORMED PLANS

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City of Bothell

Drawn By RAV	Date 3/13/17	SCALE Horiz	CITY OF BOTHELL
Designed By JWA	3/13/17	Vert	MAIN STREET ENHANCEMENT
Checked By GHG	3/13/17	Project Number A15.0150	GRADING – SHEET 3
Approved By RLF	3/13/17		

Drawing No. GR3
Sheet No. 17 of Total 79

Mar 15, 2017 - 5:03pm susann.babaei Q:\Seattle\2015\A15.015000\CADD\Dwgs\08_GR-03.dwg Layout Name: Layout1

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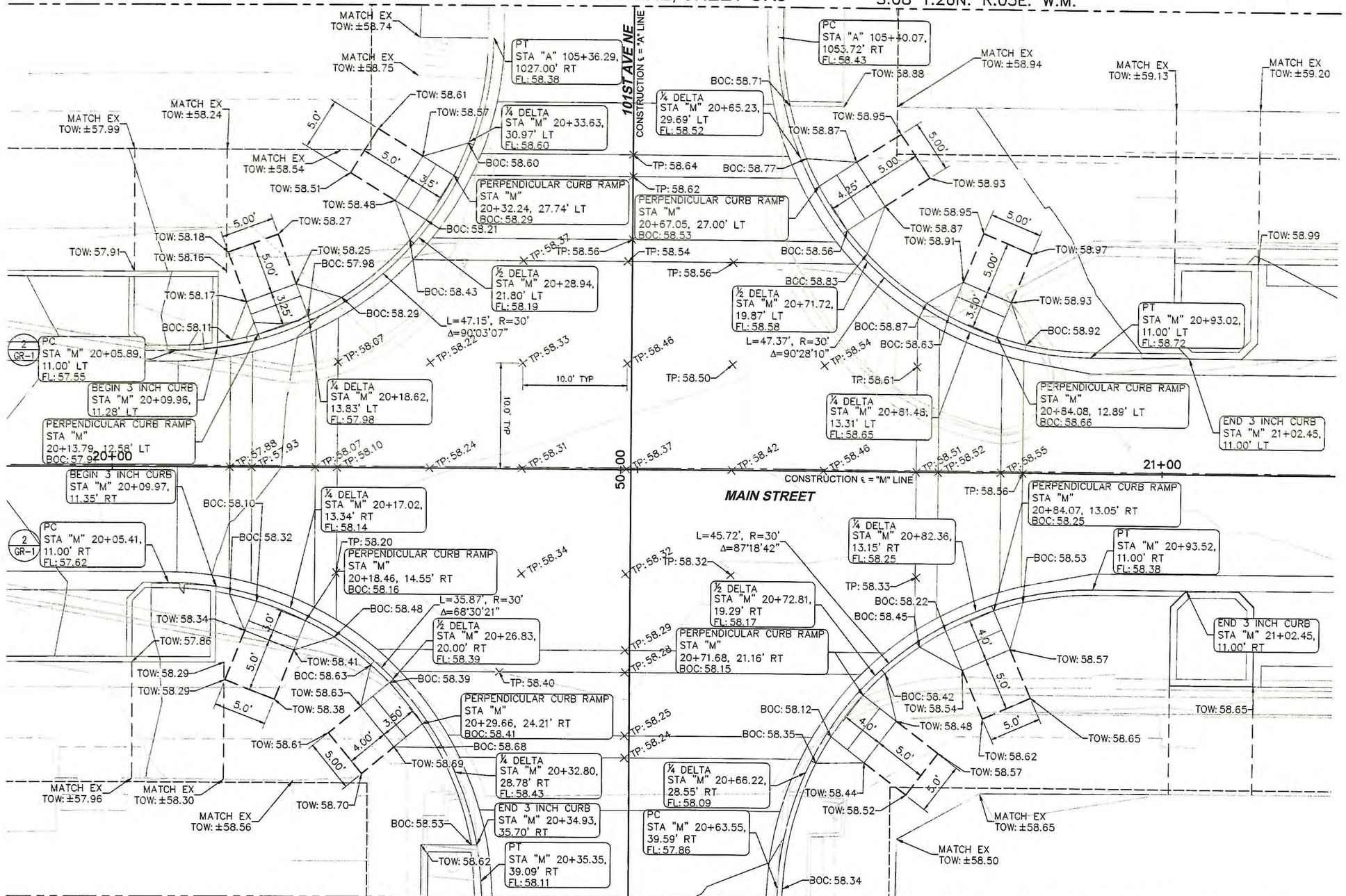
MATCH LINE, SHEET GR5 S.08 T.26N. R.05E. W.M.



MATCH LINE, SEE SHEET GR5

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City of Bothell

Drawn By RAV	Date 3/13/17	SCALE Horiz	CITY OF BOTHELL
Designed By JWA	3/13/17	Vert	MAIN STREET ENHANCEMENT
Checked By GHG	3/13/17	Project Number A15.0150	GRADING – SHEET 4
Approved By RLF	3/13/17		Drawing No. GR4
			Sheet No. 18 of 79

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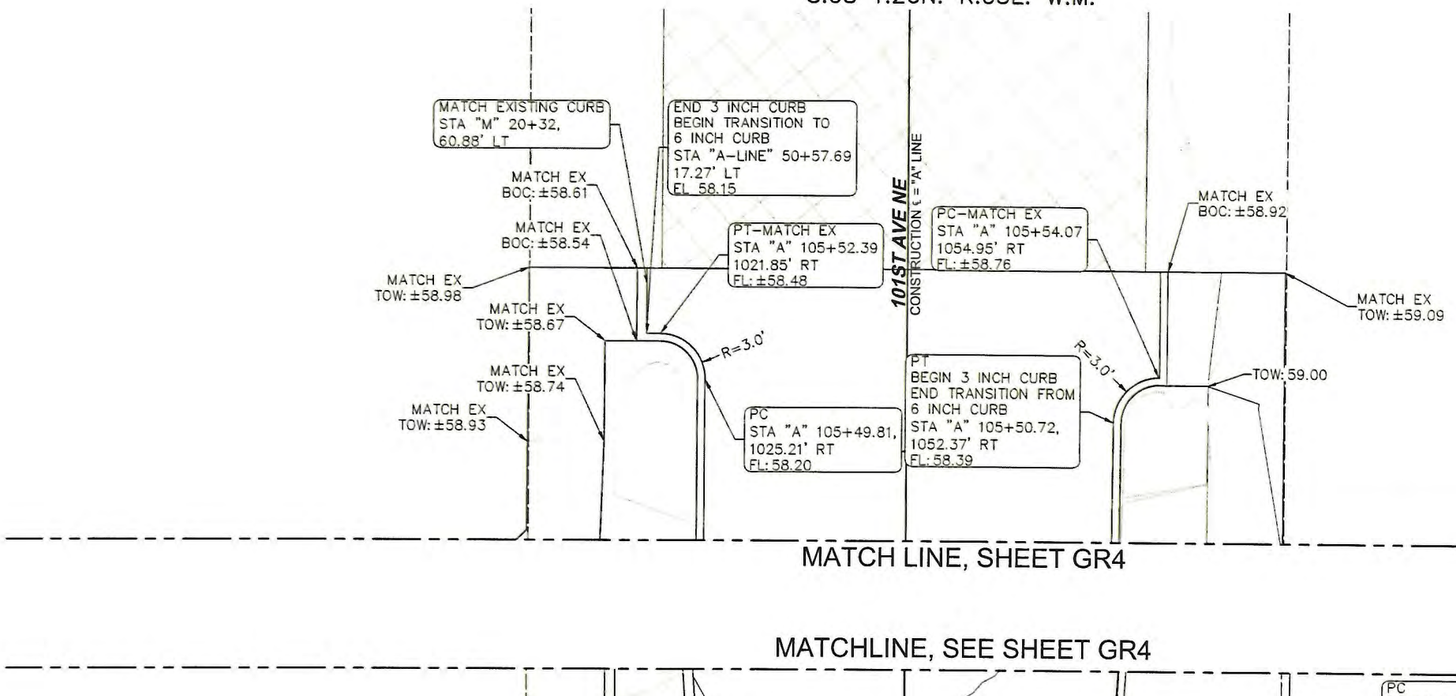
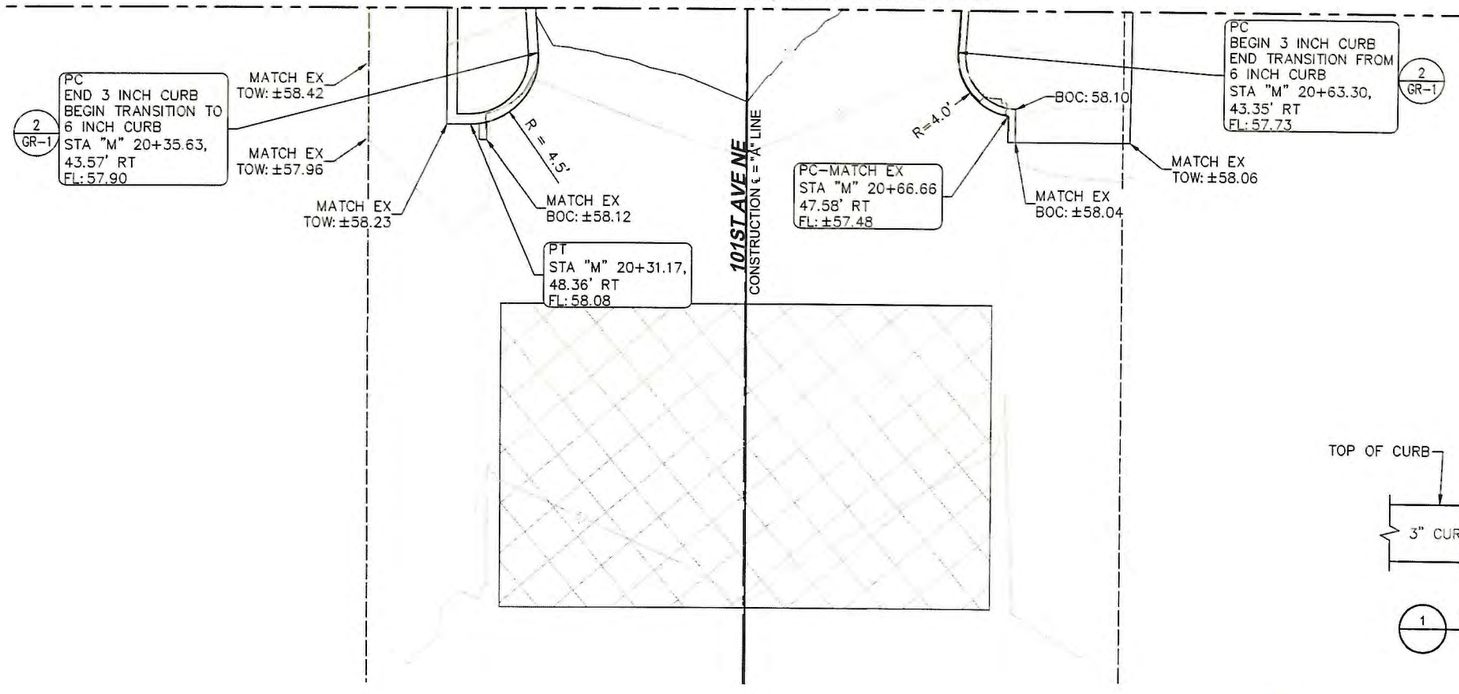
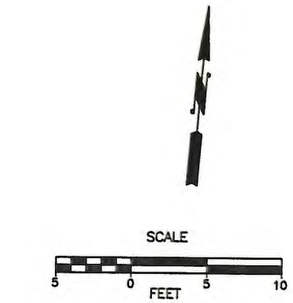
S.08 T.26N. R.05E. W.M.



MATCH LINE, SHEET GR4

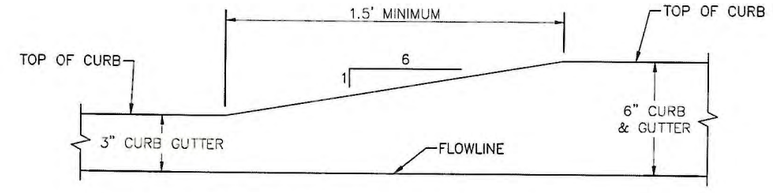
MATCHLINE, SEE SHEET GR4





LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- +TP: XX.XX SPOT ELEVATION



1 CURB HEIGHT TRANSITION DETAIL
SCALE: NTS

CONFORMED PLANS

No.	Date	Revision	By	Appr.

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City of Bothell

3/13/2017

Drawn By RAV	Date 3/13/17	SCALE
Designed By JWA	3/13/17	Horiz
Checked By GHG	3/13/17	Vert
Approved By RLF	3/13/17	Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
GRADING – SHEET 5

Drawing No. GR5
Sheet No. 19 of Total 79

Mar 15, 2017 - 5:06pm susanr.tabael O:\Seattle\2015\A15.0150\00\CADD\Dwg\sht\B_GR-05.dwg Layout Name: Layout1

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MATCH LINE, SHEET GR7

S.08 T.26N. R.05E. W.M.

102ND AVE NE
CONSTRUCTION ℄ = "B" LINE

MAIN STREET
CONSTRUCTION ℄ = "M" LINE

24+00

25+00

80+00

TOW: 65.99
TP: 67.13
TP: 66.72
TOW: 66.23
TOW: 66.07
TOW: 66.23
TOW: 66.36
TOW: 66.28
TOW: 65.81
TOW: 66.23
TOW: 66.68
TOW: 66.70
TOW: 65.22
TOW: 66.34
TOW: 66.78
TOW: 66.73
TOW: 66.86
BOC: 66.92
BOC: 66.81
TOW: 66.63
TOW: 66.31
TOW: 66.65
BOC: 66.61
TOW: 65.04
TOW: 66.22
TOW: 66.25
BOC: 66.44
TOW: 66.17
BOC: 66.11
BOC: 66.32
BOC: 65.98
TP: 66.02
TP: 66.80
TP: 66.69
TP: 65.36
TP: 65.45
TP: 65.71
TP: 65.80
TP: 66.15
TP: 66.53
TP: 66.87
TP: 67.39
TP: 65.82
TP: 66.25
TP: 66.67
TP: 67.09
TP: 67.44
TP: 67.28
TP: 67.52
TP: 67.06
TP: 67.43
TOW: 65.25
TOW: 65.38
TOW: 65.70
TOW: 65.37
TOW: 65.69
TOW: 65.78
TOW: 65.75
TOW: 64.15
TOW: 65.28
TOW: 65.27
TOW: 65.28
BOC: 65.14
BOC: 65.46
BOC: 65.64
BOC: 65.42
TP: 65.96
BOC: 65.76
TOW: 65.77
TP: 66.41
TP: 66.98
BOC: 67.08
TP: 66.26
TOW: 68.17
MATCH EX TOW: ±68.05
TOW: 68.06
MATCH EX TOW: ±68.13
MATCH EX TOW: ±69.36
MATCH EX TOW: ±70.98
TOW: 68.03
BOC: 68.14
BOC: 68.02
BOC: 67.75
TOW: 68.43
TOW: 68.10
TOW: 68.03
BOC: 68.12
TOW: 68.41
TOW: 68.53
TOW: 68.50
TOW: 69.33
BOC: 68.35
TP: 68.17
BOC: 68.15
BOC: 68.61
TP: 68.40
TP: 68.69
TP: 67.94
BOC: 68.04
TOW: 68.14
TOW: 68.15
TOW: 68.05
BOC: 67.55
TOW: 68.06
BOC: 67.41
TOW: 67.40
TOW: 67.53
TOW: 67.42
TOW: 67.35
TOW: 67.30
MATCH EX TOW: ±64.66
MATCH EX TOW: ±64.23
MATCH EX TOW: ±68.44
MATCH EX TOW: ±68.58
MATCH EX TOW: ±67.53
MATCH EX TOW: ±67.42
MATCH EX TOW: ±67.07
MATCH EX TOW: ±67.22

BEGIN 3 INCH CURB
STA "M" 24+09.45,
11.00' LT

PC
STA "M" 24+15.76,
11.00' LT
FL: 65.60

PERPENDICULAR CURB RAMP
STA "M"
24+23.34, 12.49' LT
BOC: 65.90

PERPENDICULAR CURB RAMP
STA "M"
24+23.56, 12.60' RT
BOC: 65.07

PC
STA "M" 24+15.58,
11.00' RT
FL: 64.86

BEGIN 3 INCH CURB
STA "M" 24+09.45,
11.01' RT

PT
STA "B" 80+40.58,
13.93' LT
FL: 67.06

END 3 INCH CURB
BEGIN TRANSITION TO
6 INCH CURB
STA "M" 24+45.76,
40.60' LT

PC
STA "B" 80+39.37,
13.64' RT
FL: 67.90

¼ DELTA
STA "M" 24+43.37,
29.25' LT
FL: 66.55

PERPENDICULAR CURB RAMP
STA "M"
24+41.60, 26.76' LT
BOC: 66.51

½ DELTA
STA "M" 24+36.84,
19.65' LT
FL: 66.35

L=46.73', R=30'
Δ=89°14'32"

¼ DELTA
STA "M" 24+27.15,
13.25' LT
FL: 65.97

¼ DELTA
STA "M" 24+27.15,
13.32' RT
FL: 65.12

L=47.52', R=30'
Δ=90°45'08"

½ DELTA
STA "M" 24+36.94,
19.93' RT
FL: 65.38

PERPENDICULAR CURB RAMP
STA "M"
24+75.50, 29.23' RT
BOC: 66.99

PERPENDICULAR CURB RAMP
STA "M"
24+41.71, 27.30' RT
BOC: 65.48

¼ DELTA
STA "M" 24+43.41,
29.79' RT
FL: 65.51

PT
END 3 INCH CURB
BEGIN 3 INCH TRANSITION TO
6 INCH CURB
STA "B" 79+58.52,
13.99' LT
FL: 65.52

PC-MATCH EX
BEGIN 3 INCH CURB
END TRANSITION FROM
6 INCH CURB
STA "B" 79+58.35
12.98' RT
FL: ±66.45

¼ DELTA
STA "M" 24+74.64,
29.98' RT
FL: 66.98

¼ DELTA
STA "M" 24+78.41,
24.24' LT
FL: 67.79

PERPENDICULAR CURB RAMP
STA "M"
24+80.81, 21.89' LT
BOC: 67.73

L=46.24', R=30'
Δ=88°18'26"

½ DELTA
STA "M" 24+90.53,
13.84' LT
FL: 68.12

¼ DELTA
STA "M" 24+90.91,
13.35' RT
FL: 67.89

L=47.79', R=30'
Δ=91°16'46"

½ DELTA
STA "M" 24+81.10,
20.02' RT
FL: 67.18

¼ DELTA
STA "M" 25+06.23,
11.13' LT
FL: 68.77

PERPENDICULAR CURB RAMP
STA "M"
24+96.61, 12.26' RT
BOC: 68.23

PERPENDICULAR CURB RAMP
END 3 INCH CURB
STA "M"
24+97.38, 11.96' RT
BOC: 68.12

PRC
END 3 INCH CURB
BEGIN TRANSITION TO
6 INCH CURB
STA "M" 25+21.12,
16.86' LT
FL: 69.90

PT
STA "M" 25+02.55,
11.00' RT
FL: 68.32

PT-MATCH EX
STA "M" 25+30.12
19.83' LT
FL: ±70.53

½ DELTA
STA "M" 25+25.40,
19.08' LT
FL: 70.22

5.0'
4.0'
5.3'
3.2'
3.27%
3.76%
3.25'
5.00'
0.01%
3.40'
4.84%
4.62%
4.25'
2.90%
0.84%
3.75'
4.66%
3.5'
4.30%
1.50%
10.0' TYP

2 GR-1

MATCH LINE, SEE SHEET GR7

N

SCALE
5 0 5 10
FEET

LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- + TP: XX.XX SPOT ELEVATION

CONFORMED PLANS

3/13/2017

No.	Date	Revision	By	Appr.

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City of Bothell

Drawn By RAV	Date 3/13/17	
Designed By JWA	3/13/17	
Checked By GHG	3/13/17	
Approved By RLF	3/13/17	

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
GRADING – SHEET 6

Drawing No. GR6
Sheet No. 20 of Total 79

Mar 15, 2017 - 5:08pm susann.tabbel Q:\Seattle\2015\A15.0150\00\CADD\Dwgs\08_GR-06.dwg Layout Name: Layout1

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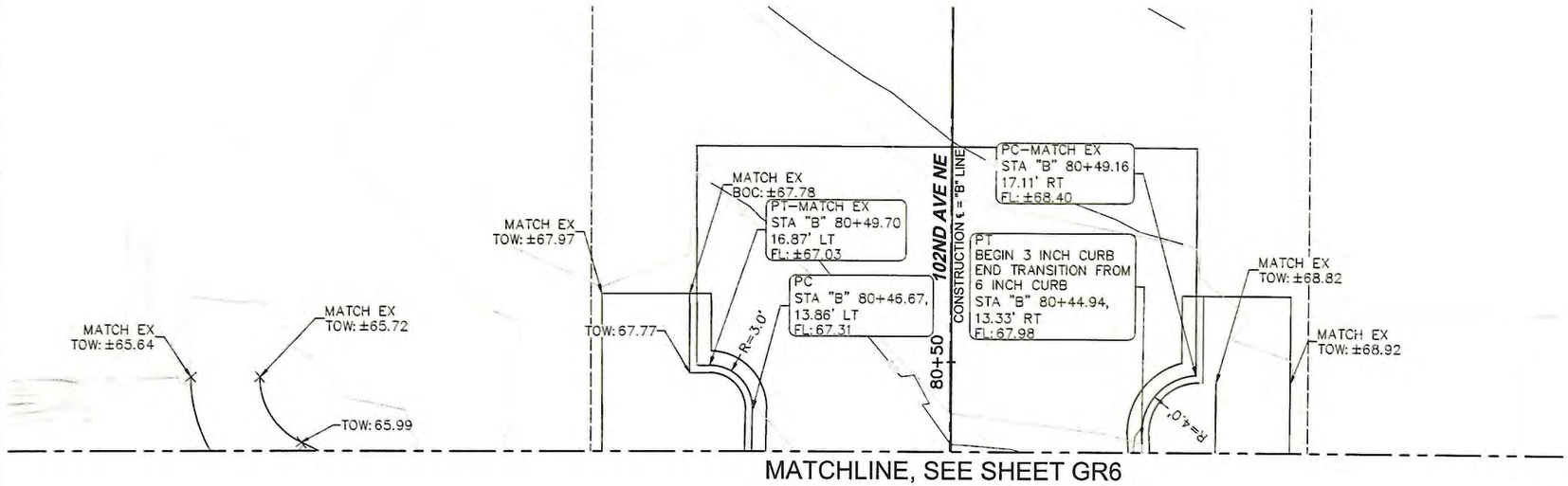
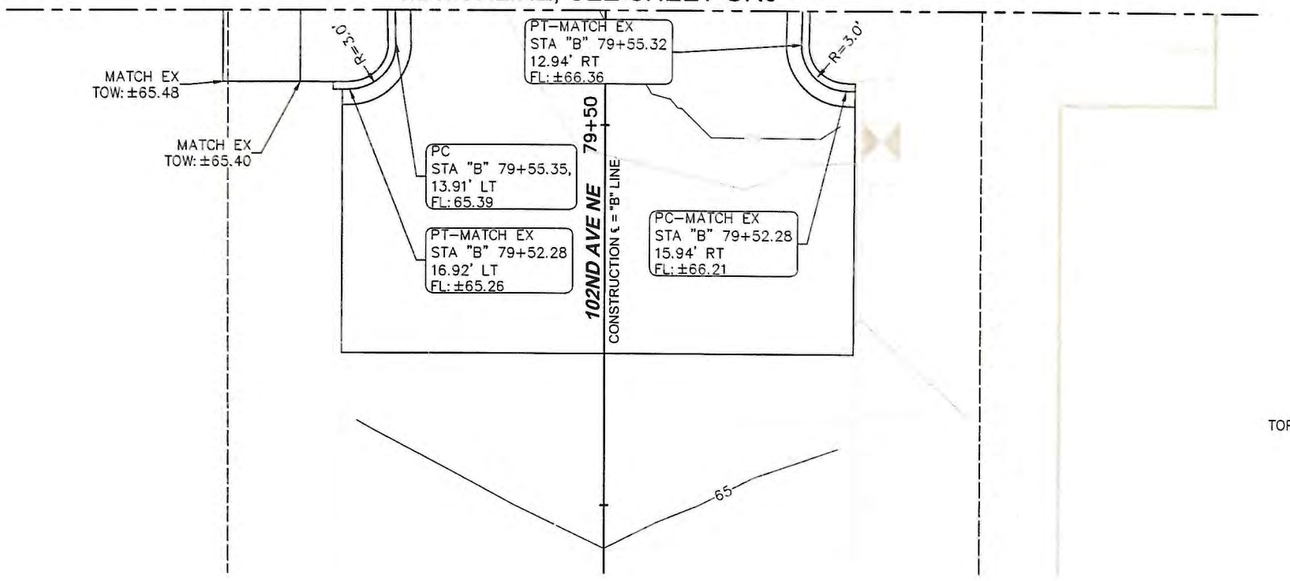
S.08 T.26N. R.05E. W.M.



MATCHLINE, SEE SHEET GR6

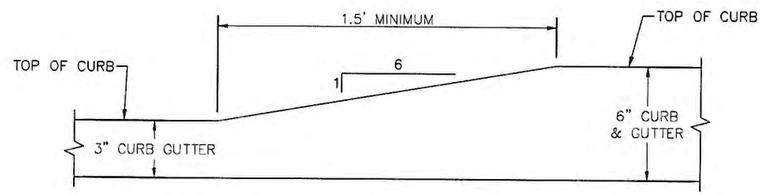
MATCHLINE, SEE SHEET GR6



SCALE
5 0 5 10
FEET

LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- TP: XX.XX SPOT ELEVATION



1 CURB HEIGHT TRANSITION DETAIL
SCALE: NTS

3/13/2017

CONFORMED PLANS

No.	Date	Revision	By	Appr.

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City of Bothell

Drawn By RAV	Date 3/13/17	SCALE
Designed By JWA	3/13/17	Horiz
Checked By GHG	3/13/17	Vert
Approved By RLF	3/13/17	Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
GRADING – SHEET 7

Drawing No. GR7
Sheet No. 21 / 79 of Total

Mar 15, 2017 - 5:09pm susann.babasi Q:\Seattle\2015\A15.015000\CADD\Dwgs\08_GR-07.dwg Layout Name: Layout1

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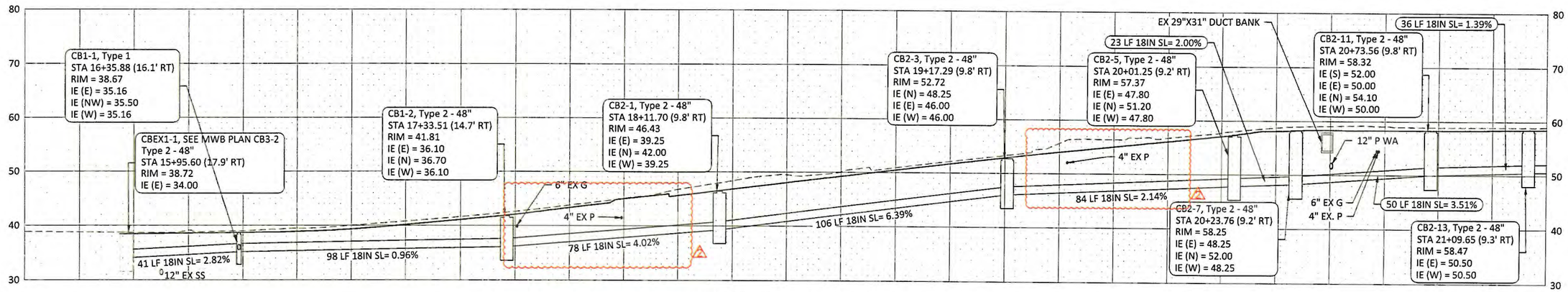
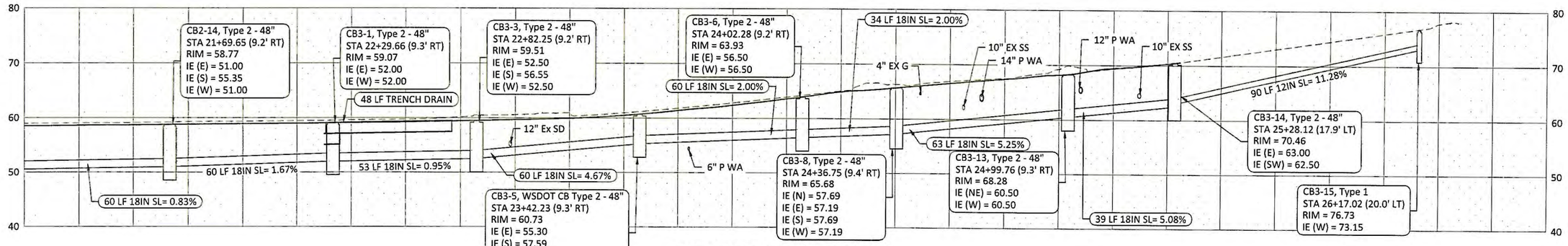


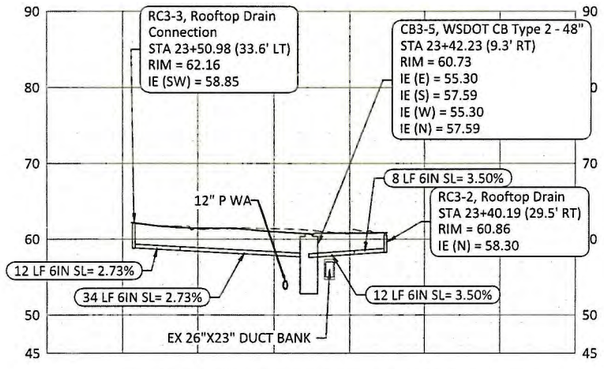
PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD MAINLINE)



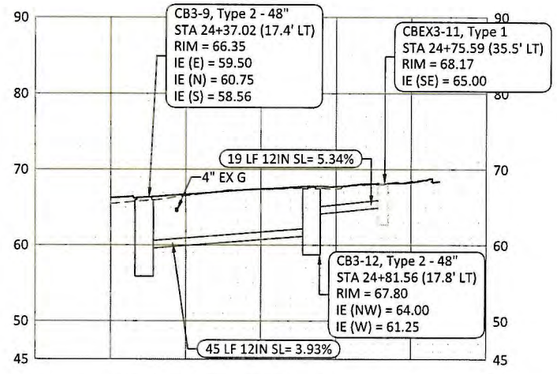
PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD MAINLINE)



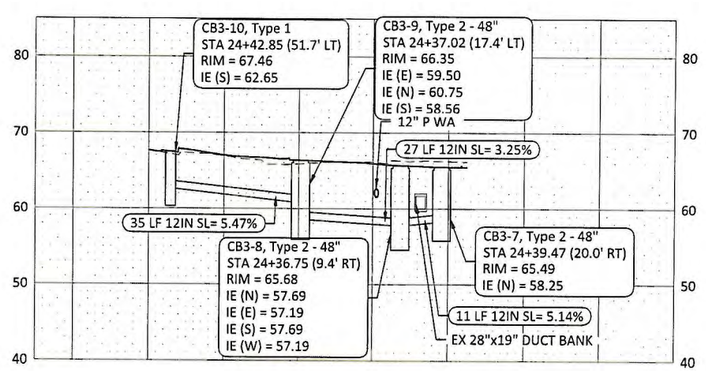
PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD23+42) SEE SHEET PP3



PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD24+37) SEE SHEET PP3, 102ND AVE NE INTERSECTION



PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD24+35) SEE SHEET PP3, 102ND AVE NE INTERSECTION

GENERAL NOTES

1. FOR ALL TYPE 1 CATCH BASINS SEE CITY OF BOTHELL STD PLAN 412
2. FOR ALL TYPE 2 CATCH BASINS SEE CITY OF BOTHELL STD PLAN 414
3. EXISTING UTILITY ELEVATIONS HAVE NOT BEEN SURVEYED AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION
4. SEE PP SHEETS FOR DRAINAGE LAYOUT
5. FOR ALL STORM CLEANOUTS SEE BOTHELL STD PLAN 498
6. FOR ALL ROOFTOP CONNECTIONS SEE SHEET SD2 FOR ROOFTOP DOWNSPOUT CONNECTION DETAIL
7. ALL GAS AND POWER ARE EXISTING. ⚠2

CONFORMED PLANS

No.	Date	Revision	By	Appr.
⚠2	2/2	PSE Gas and Power Shown As Existing on Profile	SB	NAS

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City of Bothell

3/13/2017
ROBERT L. FERNANDES — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON

Drawn By	RAV	Date	3/13/17
Designed By	JWA		3/13/17
Checked By	GHG		3/13/17
Approved By	RLF		3/13/17

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
DRAINAGE PROFILES – SHEET 1

Drawing No. SD1
Sheet No. 22 of Total 79

Mar 16, 2017 - 9:12am susann.babael Q:\Seattle\2015\A15.0150\00\CADD\Dwg\409_SD-01.dwg Layout Name: Layout1

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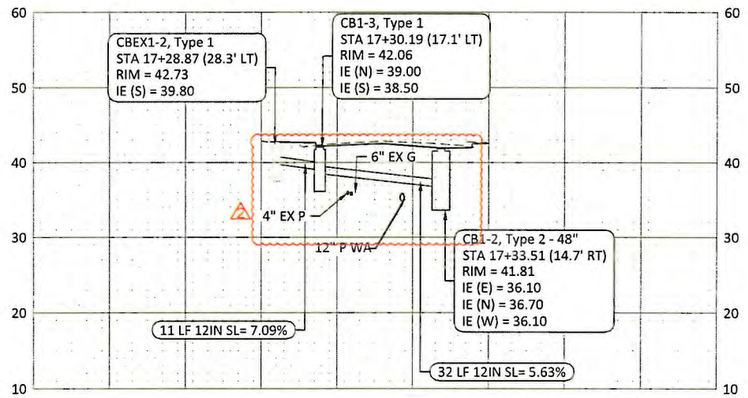
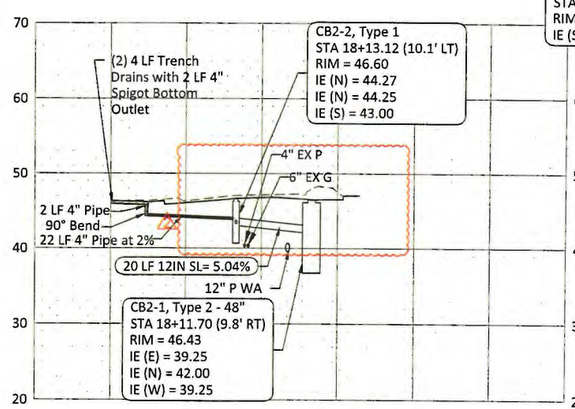


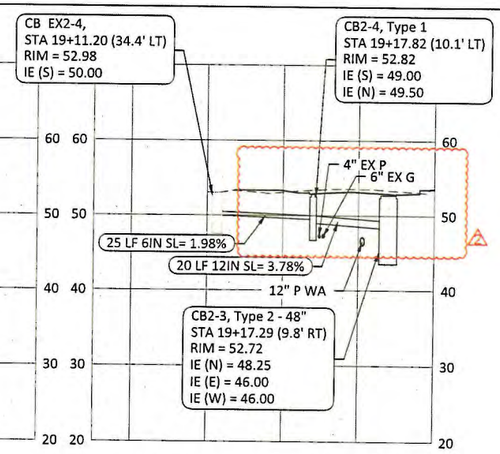
PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD17+20) SEE SHEET PP1



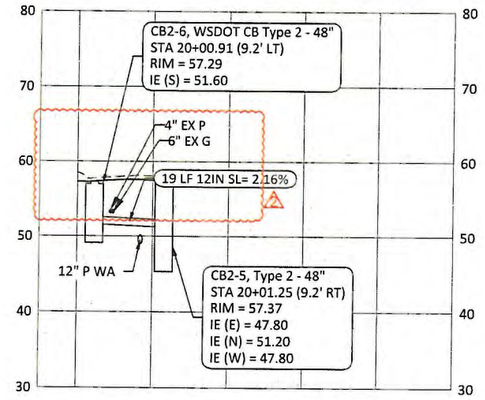
PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD18+11) SEE SHEET PP2



PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD19+10) SEE SHEET PP2



PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD20+04) SEE SHEET PP2

PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD20+23) SEE SHEET PP2, 101ST AVE NE INTERSECTION

PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD20+75) SEE SHEET PP2, 101ST AVE NE INTERSECTION

PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD21+70) SEE SHEET PP2

PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD22+82) SEE SHEET PP3

PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD16+25) SEE SHEET PP1

PROFILE AT CL OF PIPE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)
(SD 18+00) SEE SHEET PP2

GENERAL NOTES

1. FOR ALL TYPE 1 CATCH BASINS SEE CITY OF BOTHELL STD PLAN 412
2. FOR ALL TYPE 2 CATCH BASINS SEE CITY OF BOTHELL STD PLAN 414
3. EXISTING UTILITY ELEVATIONS HAVE NOT BEEN SURVEYED AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION
4. SEE PP SHEETS FOR DRAINAGE LAYOUT
5. FOR ALL STORM CLEANOUTS SEE BOTHELL STD PLAN 498
6. FOR ALL ROOFTOP CONNECTIONS SEE ROOFTOP DOWNSPOUT CONNECTION DETAIL
7. ALL GAS AND POWER ARE EXISTING

ROOFTOP DOWNSPOUT CONNECTION DETAIL

CONFORMED PLANS

No.	Date	Revision	By	Appr.
2/2		PSE Gas and Power Shown As Existing on Profile	SB	NAS

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Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

3/13/2017

Drawn By RAV	Date 3/13/17	SCALE
Designed By JWA	3/13/17	Horiz
Checked By GHG	3/13/17	Vert
Approved By RLF	3/13/17	Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
DRAINAGE PROFILES – SHEET 2

Drawing No. SD2
Sheet No. 23 of Total 79

Mar 16, 2017 - 9:14am susann.babael O:\Seattle\2015\A15.0150\00\CADD\Dwgs\02g_SD-02.dwg Layout Name: Layout1

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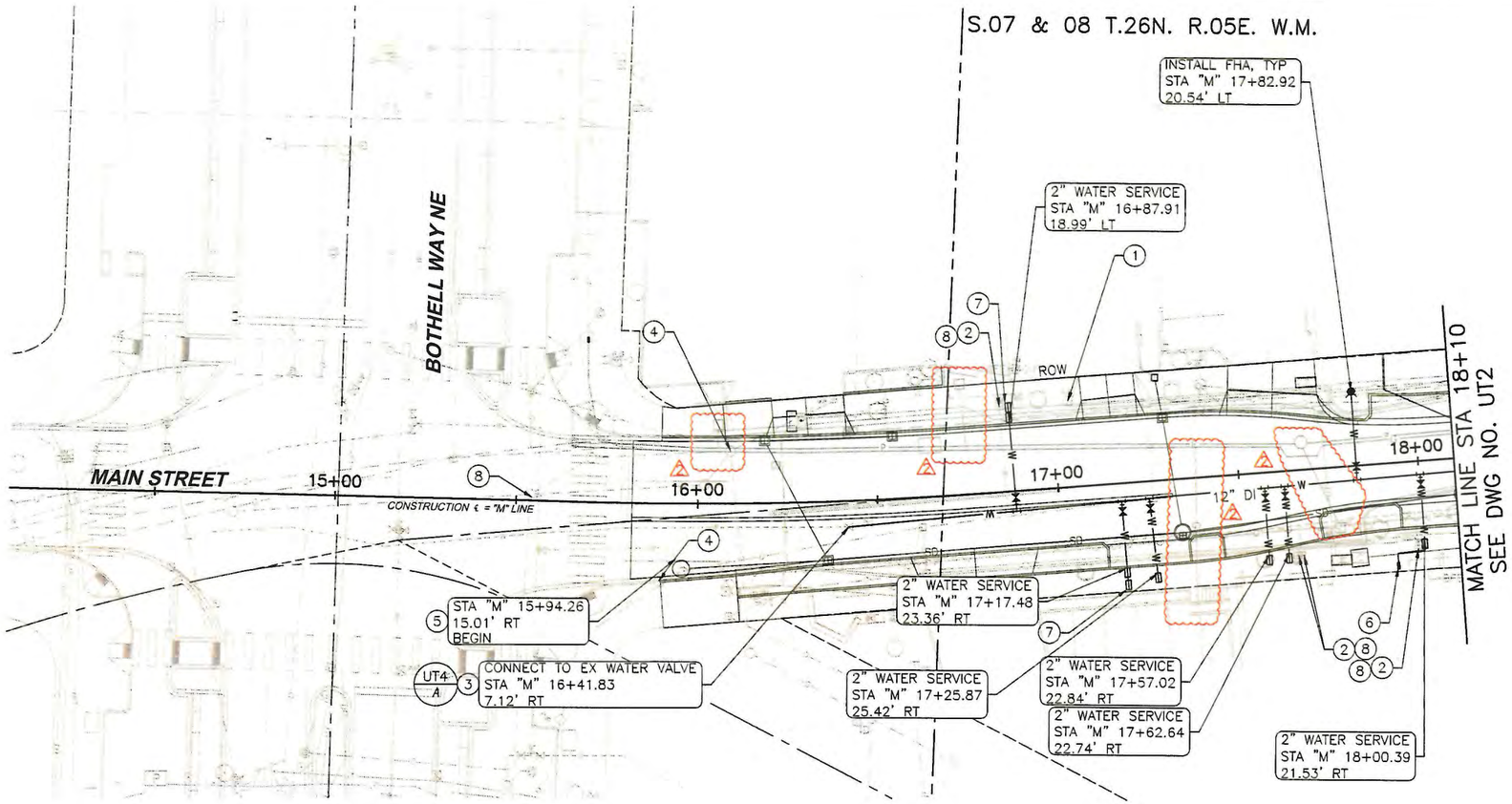

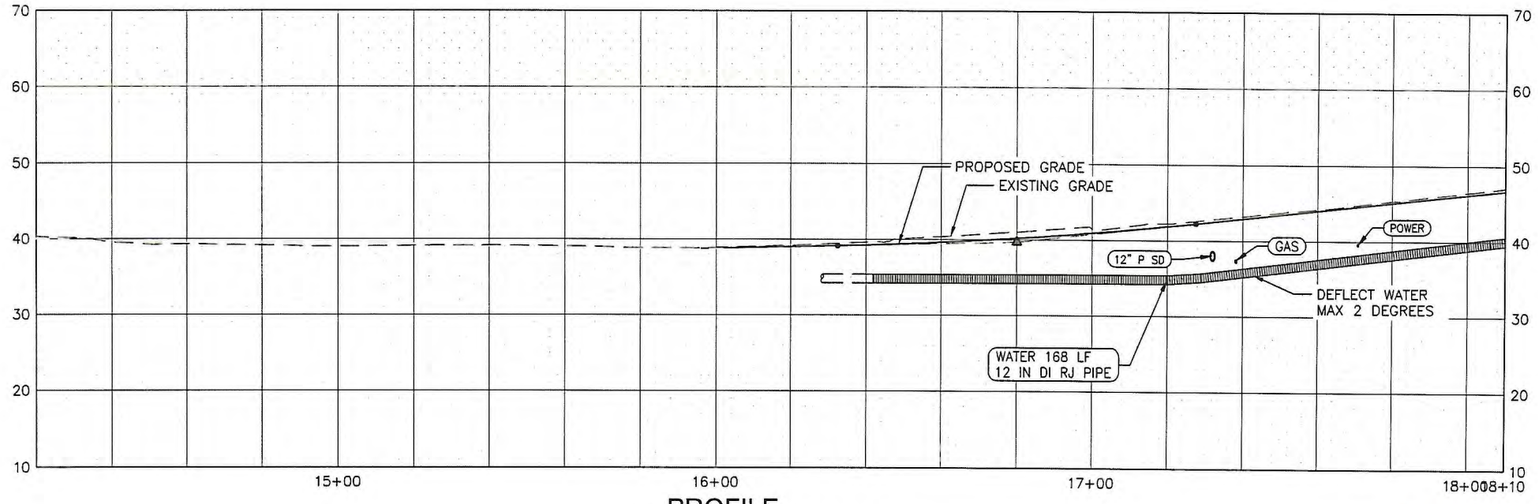

PROFILE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)

SCALE

20 10 0 20 40

FEET

GENERAL NOTES

1. 2" IRRIGATION SERVICE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL ON SHEET UT4. TAILPIECE CONNECTION SHOULD EXTEND TO PRIVATE PROPERTY AS CLOSE AS POSSIBLE. COORDINATE WITH CITY STAFF FOR INSTALLATION OF METER.
2. 2" WATER SERVICE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL ON SHEET UT4. TAILPIECE CONNECTION SHOULD EXTEND TO PRIVATE PROPERTY OR BUILDING FACE AS CLOSE AS POSSIBLE. CONTRACTOR TO SUPPLY 3/4" METER ADAPTOR ON METER CONNECTION. COORDINATE WITH CITY STAFF FOR INSTALLATION OF METER. SEE SHEET UT4 FOR STA/OFF DETAIL.
3. 6" FIRE SERVICE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF BOTHELL STD. DETAIL 577. TAILPIECE CONNECTION SHOULD EXTEND TO PRIVATE PROPERTY AS CLOSE AS POSSIBLE. COORDINATE WITH CITY STAFF FOR INSTALLATION OF METER.
4. ALL JOINTS ALONG WATER MAINS SHALL BE RESTRAINED. ALL MECHANICAL JOINTS SHALL BE RESTRAINED.
5. CONSTRUCTION OF WATER MAIN SHALL BE FIRST ORDER OF WORK. AC MAIN TO BE ABANDONED IN PLACE EXCEPT WHERE REMOVAL IS SHOWN ON PLANS.
6. EXISTING UTILITY ELEVATIONS HAVE NOT BEEN SURVEYED AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
7. FIRE HYDRANT ASSEMBLY (FHA) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF BOTHELL STD. DETAIL 520.
8. CONNECT NEW SERVICE LINES TO ANY CURRENTLY EXISTING RPBS
9. DOUBLE CHECK VALVES SHALL BE LOCATED NO MORE THAN 18" FROM THE BACK OF METER.
10. ADAPT EXISTING SERVICE TO DOUBLE CHECK VALVES
11. SEE SHEETS FR1–FR2 FOR INFORMATION ON FRANCHISE UTILITIES

CONSTRUCTION NOTES

(1) REMOVE AND RELOCATE JUNCTION BOX PER ILLUMINATION PLANS

(2) COORDINATE WATER METER RELOCATION WITH CITY STAFF

(3) ADJUST VALVE BOX TO FINISHED GRADE

(4) ADJUST MANHOLE LID TO FINISHED GRADE

(5) REMOVE ASBESTOS WATER PIPE

(6) INSTALL REDUCED PRESSURE BACKFLOW ASSEMBLY

(7) INSTALL DOUBLE CHECK VALVE

(8) COORDINATE WITH MAINTENANCE OFFICE TO ABATE METER

UTILITY CONTACT INFORMATION			
FRANCHISE	REPRESENTATIVE	PHONE NO.	EMAIL
FRONTIER	DAVID COLLINS	425-263-4020	DAVID.A.COLLINS@FTR.COM
COMCAST	HENRY FAAMOE	425-263-5342	HENRY_FAAMOE@CABLE.COMCAST.COM
PSE (INTOLIGHT)	RAWLEY ROBINS	425-456-2453	RAWLEY.ROBINS@PSE.COM
PSE (POWER)	KRISTOPHER LEACH	425-429-5967	KRISTOPHER.LEACH@PSE.COM
PSE (GAS)	JEANNE COLEMAN	425-463-6550	JEANNE.COLEMAN@PSE.COM

No.	Date	Revision	By	Appr.
2/2		Revised Vault Locations	SB	NAS

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City of Bothell

3/13/2017

Drawn By CAC	Date 3/13/17	SCALE	
Designed By JWA	3/13/17	Horiz	
Checked By GHG	3/13/17	Vert	
Approved By RLF	3/13/17	Project Number A15.0150	

CONFORMED PLANS

CITY OF BOTHELL

MAIN STREET ENHANCEMENT

UTILITIES – SHEET 1

Drawing No. UT1

Sheet No. 24 of Total 79

Mar 16, 2017 - 9:19am susann.babael Q:\Seattle\2015\A15.015000\CADD\Dwgs\10_UT-01.dwg Layout Name: Layout1

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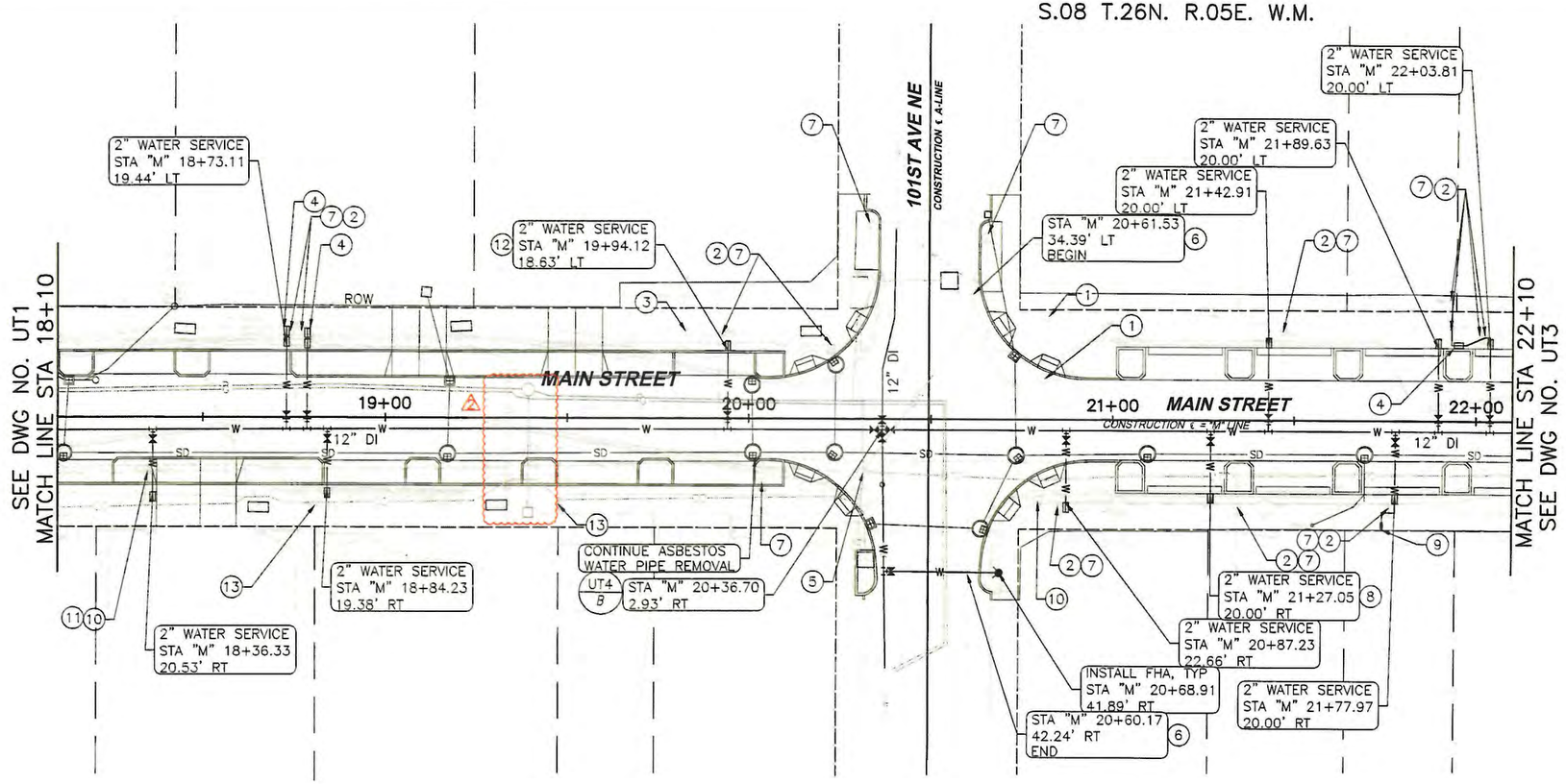

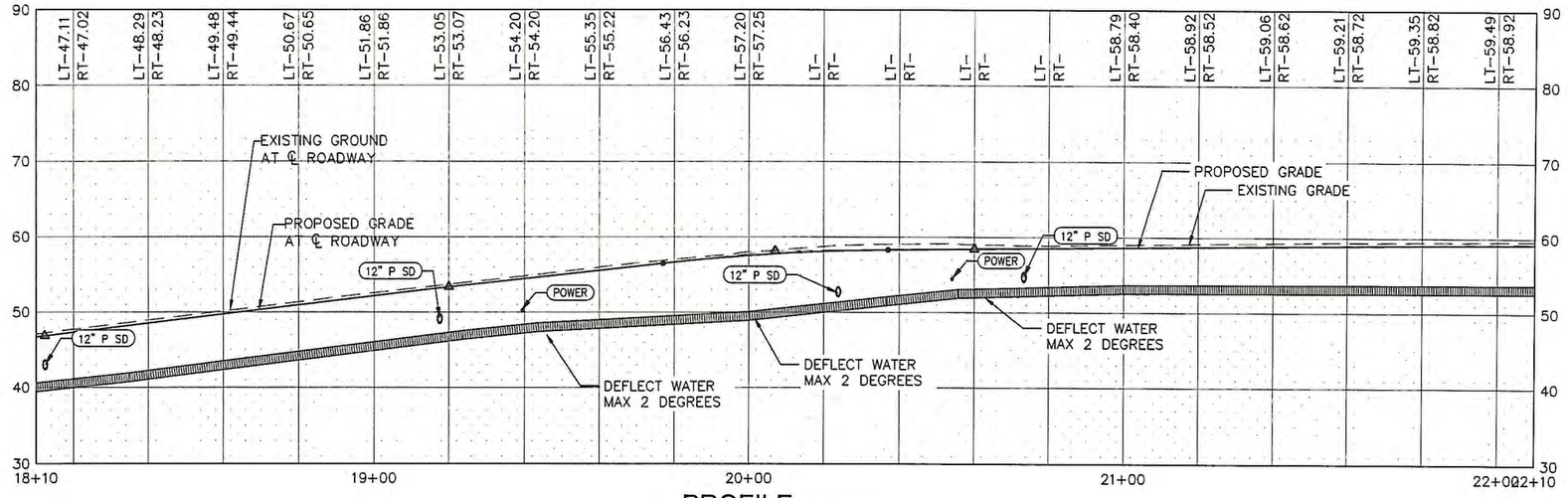

PROFILE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)

SCALE
20 10 0 FEET 20 40

GENERAL NOTES

1. 2" IRRIGATION SERVICE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL ON SHEET UT4. CONTRACTOR TO SUPPLY 3/4" METER ADAPTOR ON METER CONNECTION. TAILPIECE CONNECTION SHOULD EXTEND TO PRIVATE PROPERTY AS CLOSE AS POSSIBLE. COORDINATE WITH CITY STAFF FOR INSTALLATION OF METER.
2. 2" WATER SERVICE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL ON SHEET UT4. TAILPIECE CONNECTION SHOULD EXTEND TO PRIVATE PROPERTY OR BUILDING FACE AS CLOSE AS POSSIBLE. CONTRACTOR TO SUPPLY 3/4" METER ADAPTOR ON METER CONNECTION. COORDINATE WITH CITY STAFF FOR INSTALLATION OF METER. SEE SHEET UT-4 FOR STA/OFF DETAIL.
3. 6" FIRE SERVICE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF BOTHELL STD. DETAIL 577. TAILPIECE CONNECTION SHOULD EXTEND TO PRIVATE PROPERTY AS CLOSE AS POSSIBLE. COORDINATE WITH CITY STAFF FOR INSTALLATION OF METER.
4. ALL WATER PIPE AND JOINT CONNECTIONS SHALL BE RESTRAINED.
5. CONSTRUCTION OF WATER MAIN SHALL BE FIRST ORDER OF WORK. AC MAIN TO BE ABANDONED IN PLACE EXCEPT WHERE REMOVAL IS SHOWN ON THE PLANS.
6. EXISTING UTILITY ELEVATIONS HAVE NOT BEEN SURVEYED AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
7. FIRE HYDRANT ASSEMBLY (FHA) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF BOTHELL STD. DETAIL 520.
8. CONNECT NEW SERVICE LINES TO ANY CURRENTLY EXISTING RPBS
9. DOUBLE CHECK VALVES SHALL BE LOCATED NO MORE THAN 18" FROM THE BACK OF METER.
10. ADAPT EXISTING SERVICE TO DOUBLE CHECK VALVES.
11. SEE SHEETS FR1–FR2 FOR INFORMATION ON FRANCHISE UTILITIES

CONSTRUCTION NOTES

(1) REMOVE AND RELOCATE JUNCTION BOX PER ILLUMINATION PLANS

(2) COORDINATE WATER METER RELOCATION WITH CITY STAFF

(3) ADJUST VALVE BOX TO FINISHED GRADE

(4) INSTALL DOUBLE CHECK VALVE

(5) ADJUST MANHOLE LID TO FINISHED GRADE

(6) REMOVE ASBESTOS WATER PIPE

(7) COORDINATE WITH MAINTENANCE OFFICE TO ABATE METER

(8) CONTRACTOR TO COORDINATE TO RECONNECT REDUCED PRESSURE BACKFLOW ASSEMBLY

(9) INSTALL REDUCED PRESSURE BACKFLOW ASSEMBLY

(10) CONTRACTOR TO VERIFY WATER VALVE

(11) COORDINATE WITH MAINTENANCE OPS TO ABATE EXISTING METER ON ANY IRRIGATION LINE

(12) COORDINATE WITH CITY STAFF TO REMOVE IRRIGATION METER

(13) COORDINATE WITH CITY STAFF TO REMOVE STRUCTURE

UTILITY CONTACT INFORMATION			
FRANCHISE	REPRESENTATIVE	PHONE NO.	EMAIL
FRONTIER	DAVID COLLINS	425-263-4020	DAVID.A.COLLINS@FTR.COM
COMCAST	HENRY FAAMOE	425-263-5342	HENRY_FAAMOE@CABLE.COMCAST.COM
PSE (INTOLIGHT)	RAWLEY ROBINS	425-456-2453	RAWLEY.ROBINS@PSE.COM
PSE (POWER)	KRISTOPHER LEACH	425-429-5967	KRISTOPHER.LEACH@PSE.COM
PSE (GAS)	JEANNE COLEMAN	425-463-6550	JEANNE.COLEMAN@PSE.COM

No.	Date	Revision	By	Appr.
2	2/2	Revised Vault Locations	SB	NAS

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(206) 357-5600 FAX: (206) 357-5601

City of Bothell

3/13/2017

Drawn By	CAC	Date 3/13/17
Designed By	JWA	3/13/17
Checked By	GHC	3/13/17
Approved By	RLF	3/13/17

SCALE
Horiz
Vert
Project Number A15.0150

CONFORMED PLANS

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
UTILITIES – SHEET 2

Drawing No. UT2
Sheet No. 25 of Total 79

Mar 16, 2017 - 9:24am susann.babael Q:\Seattle\2015\A15.0150\00\CADD\Dwgs\10_UT-02.dwg Layout Name: Layout1

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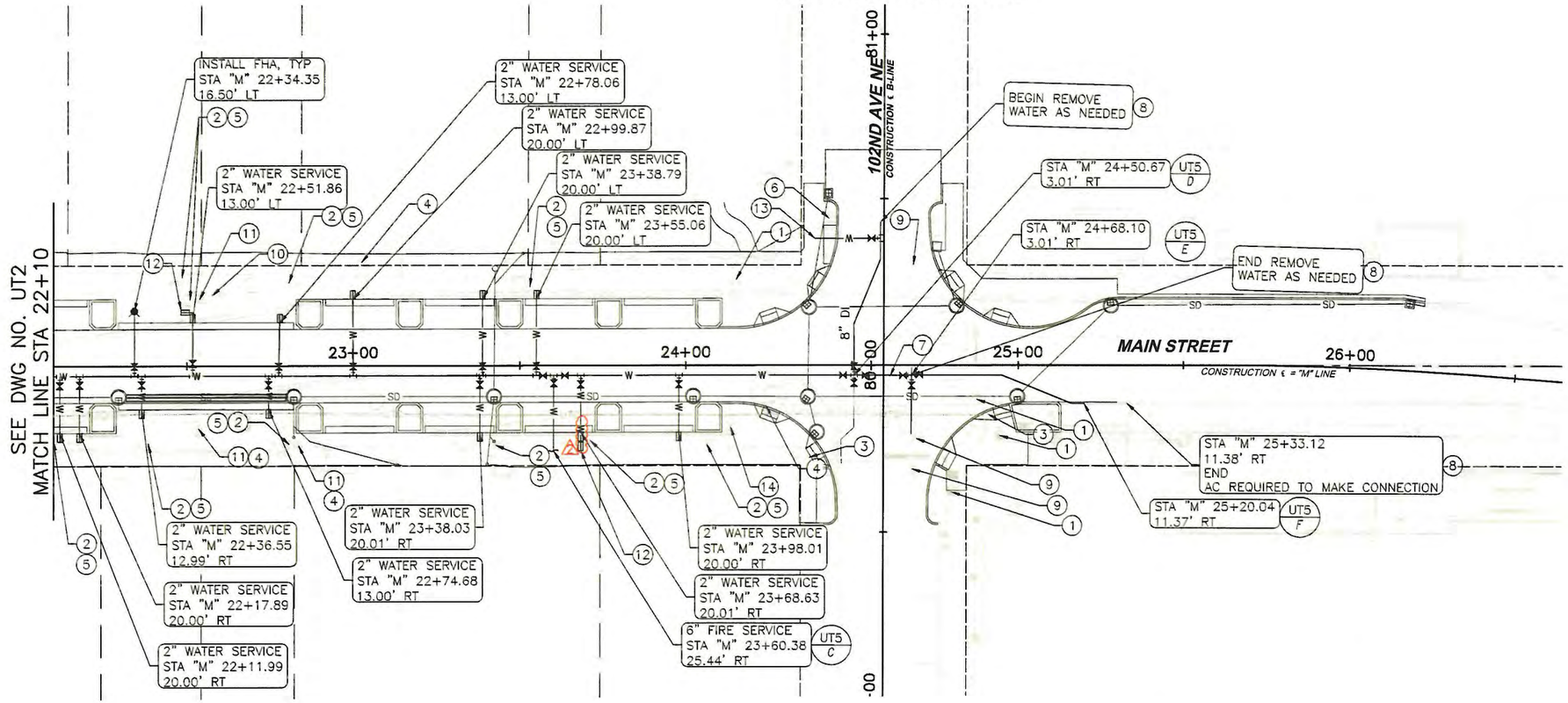
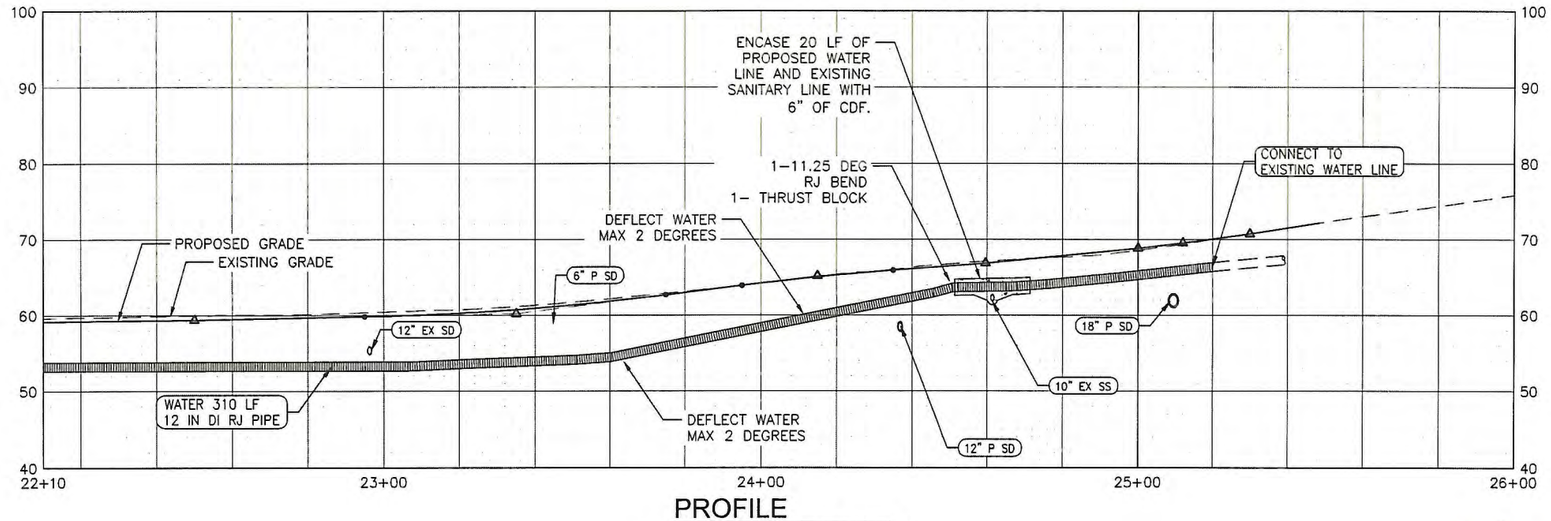
S.08 T.26N. R.05E. W.M.





PROFILE

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)

SCALE
20 10 0 20 40 FEET

GENERAL NOTES

1. 2" IRRIGATION SERVICE SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL ON SHEET UT4. CONTRACTOR TO SUPPLY 3/4" METER ADAPTOR ON METER CONNECTION. TAILPIECE CONNECTION SHOULD EXTEND TO PRIVATE PROPERTY AS CLOSE AS POSSIBLE. COORDINATE WITH CITY STAFF FOR INSTALLATION OF METER.
2. 2" WATER SERVICE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL ON SHEET UT4. TAILPIECE CONNECTION SHOULD EXTEND TO PRIVATE PROPERTY OR BUILDING FACE AS CLOSE AS POSSIBLE. CONTRACTOR TO SUPPLY 3/4" METER ADAPTOR ON METER CONNECTION. COORDINATE WITH CITY STAFF FOR INSTALLATION OF METER. SEE SHEET UT-4 FOR STA/OFF DETAIL.
3. 6" FIRE SERVICE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF BOTHELL STD. DETAIL 577. TAILPIECE CONNECTION SHOULD EXTEND TO PRIVATE PROPERTY AS CLOSE AS POSSIBLE. COORDINATE WITH CITY STAFF FOR INSTALLATION OF METER.
4. ALL JOINTS AT WATER CONNECTIONS SHALL BE RESTRAINED.
5. CONSTRUCTION OF WATER MAIN SHALL BE FIRST ORDER OF WORK. AC MAIN TO BE ABANDONED IN PLACE EXCEPT WHERE REMOVAL IS SHOWN ON PLANS.
6. EXISTING UTILITY ELEVATIONS HAVE NOT BEEN SURVEYED AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
7. FIRE HYDRANT ASSEMBLY (FHA) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF BOTHELL STD. DETAIL 520.
8. CONNECT NEW SERVICE LIENS TO ANY CURRENTLY EXISTING RPBS.
9. DOUBLE CHECK VALVES SHALL BE LOCATED NO MORE THAN 18" FROM THE BACK OF METER.
10. ADAPT EXISTING SERVICE TO DOUBLE CHECK VALVES.
11. SEE SHEETS FR1-FR2 FOR INFORMATION ON FRANCHISE UTILITIES

CONSTRUCTION NOTES

1. ADJUST JUNCTION BOX TO FINISHED GRADE
2. COORDINATE WATER METER RELOCATION WITH CITY STAFF
3. ADJUST MANHOLE LID TO FINISHED GRADE
4. COORDINATE WITH MAINTENANCE OPS TO ABATE EXISTING METER ON ANY IRRIGATION LINE
5. COORDINATE WITH MAINTENANCE OFFICE TO ABATE METER
6. REMOVE WATER STAND PIPE
7. CENTER WATER PIPE SEGMENT OVER SANITARY SEWER PIPE
8. REMOVE ASBESTOS WATER PIPE
9. ADJUST VALVE TO FINAL GRADE
10. REMOVE AND RELOCATE JUNCTION BOX PER ILLUMINATION PLANS
11. COORDINATE WITH CITY STAFF REMOVE IRRIGATION METER.
12. INSTALL DOUBLE CHECK VALVE
13. CONNECT TO IRRIGATION SYSTEM, SEE LI PLANS
14. COORDINATE WITH WATER OPS TO DISCONNENT WATER VALVE AND REMOVE

UTILITY CONTACT INFORMATION			
FRANCHISE	REPRESENTATIVE	PHONE NO.	EMAIL
FRONTIER	DAVID COLLINS	425-263-4020	DAVID.A.COLLINS@FTR.COM
COMCAST	HENRY FAAMOE	425-263-5342	HENRY_FAAMOE@CABLE.COMCAST.COM
PSE (INTOLIGHT)	RAWLEY ROBINS	425-456-2453	RAWLEY.ROBINS@PSE.COM
PSE (POWER)	KRISTOPHER LEACH	425-429-5967	KRISTOPHER.LEACH@PSE.COM
PSE (GAS)	JEANNE COLEMAN	425-463-6550	JEANNE.COLEMAN@PSE.COM

CONFORMED PLANS

No.	Date	Revision	By	Appr.
2	2/2	Added Double Check Valve	SB	NAS

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City of Bothell

3/13/2017

Drawn By CAC	Date 3/13/17	
Designed By JWA	3/13/17	
Checked By GHG	3/13/17	
Approved By RLF	3/13/17	

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
UTILITIES – SHEET 3

Drawing No. UT3
Sheet No. 26 of Total 79

Mar 16, 2017 - 9:28am susann.babaei O:\Seattle\2015\A15.0150\00\CADD\Dwgs\10_UT-03.dwg Layout Name: Layout1

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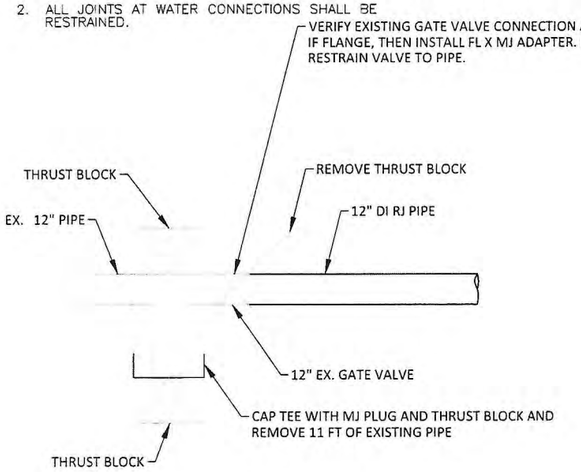
GENERAL NOTES

1. ALL THRUST BLOCKS SHALL BE SIZED ACCORDING TO CITY OF BOTHELL STANDARD DETAIL 530.
2. ALL JOINTS AT WATER CONNECTIONS SHALL BE RESTRAINED.



A / UT1 CONNECTION TO EXISTING WATER VALVE
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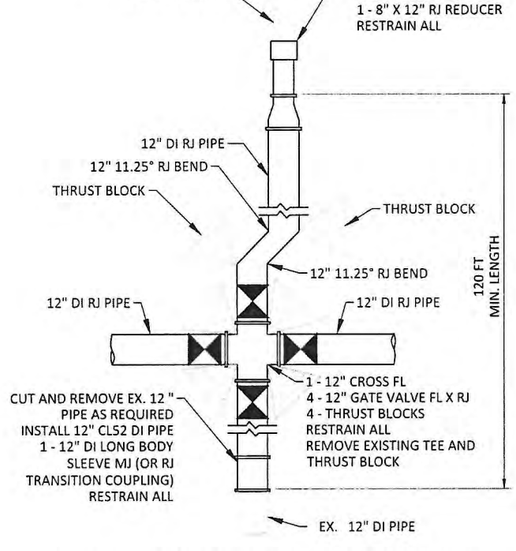

B / UT2 CONNECTION AT 101ST AVE NE
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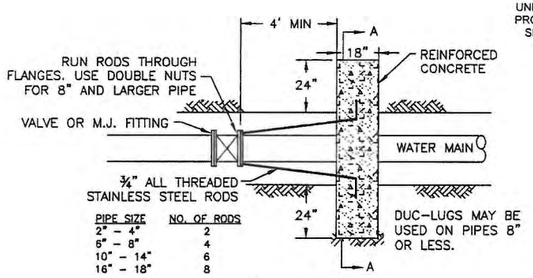
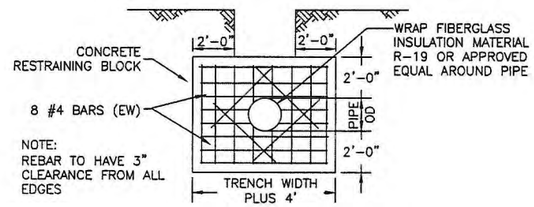
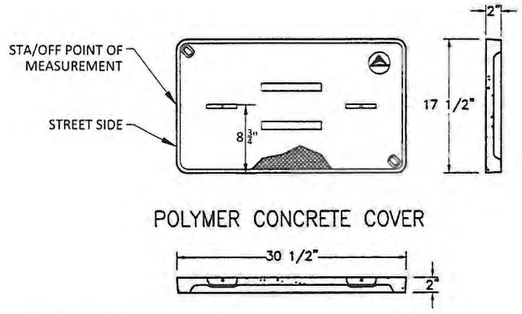


PLAN VIEW

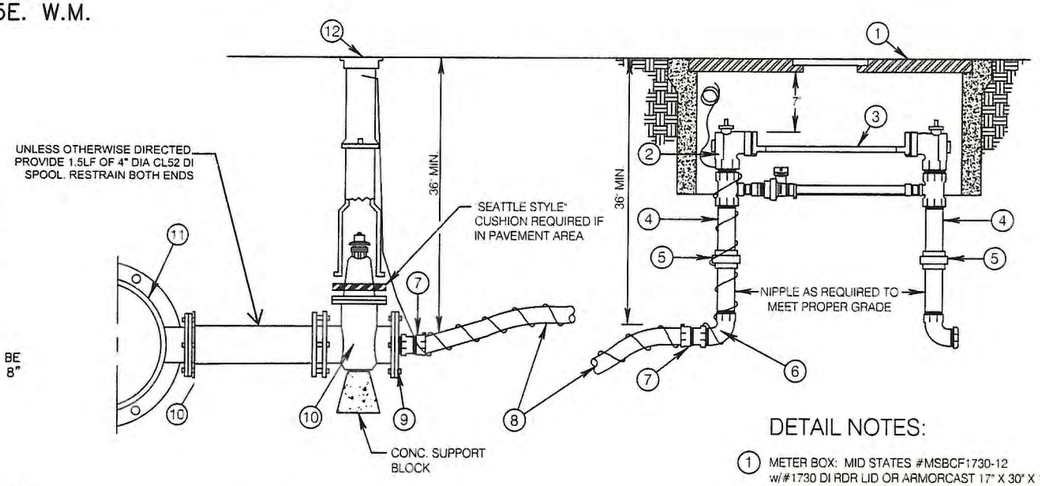


SECTION A-A

TIEBACK DETAIL
NTS



WATER METER DETAIL
NTS



NOTES:

1. WATER METER SUPPLIED AND INSTALLED BY THE CITY.
2. A 24" HORIZONTAL WAVE SHALL BE AT THE CONNECTION TO THE NEW MAIN.
3. NO SPLICES OR CRIMPING OF SERVICE LINE SHALL BE MADE.
4. SERVICE LINE SHALL BE PERPENDICULAR TO THE MAIN AND 30° MIN. COVER UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. METER BOX SHALL BE SET SQUARE TO THE BACK OF CURB WITH THE WATER METER CENTERED IN THE BOX. FOR INSTALLATION IN SIDEWALK, PLACE EXPANSION JOINTS A MIN. OF 6" BETWEEN BOX AND JOINT.
6. SETTER INSTALLATION SHALL PROVIDE ADEQUATE CLEARANCE BETWEEN BYPASS AND METER BOX WALL FOR OPERATING AND LOCKING BYPASS VALVE.
7. STAINLESS STEEL INSERTS REQUIRED FOR ALL PACK JOINTS (COMPRESSION TYPE) FITTINGS.
8. GROUND LEVEL INSIDE METER BOX SHOULD BE UP TO BOTTOM OF METER STOP.
9. ALL WATER METERS UP TO 2" ARE TO BE BACKFILLED WITH ⅝" MINUS CRUSHED ROCK UP TO THE BOTTOM OF THE METER AND THE REMAINING AREA UP TO THE TOP OF THE REGISTER WITH ACCEPTED INSULATING MATERIAL, MEDIUM BARK OR SAW DUST.
10. PROVIDE A 3" UNOBSTRUCTED CLEAR AREA AROUND THE METER.
11. CONTRACTOR WILL BE REPONSIBLE TO PROTECT WATER SERVICES FROM FREEZING DURING CONSTRUCTION.
12. USE DIFFERENT COLOR TRACER WIRE ON CUSTOMER SIDE IF IN COMMON TRENCH.

2" SERVICE DETAIL
* (OR APPROVED EQUAL)
NTS

DETAIL NOTES:

1. METER BOX: MID STATES #MSBCF1730-12 w/#1730 DI RDR LID OR ARMORCAST 17" X 30" X 12" POLYMER CONCRETE BOX WITH 17" X 30" X 2" RPM COVER W/READ LID*.
2. 2" SETTER: FORD #VBB87-C11291-01-NL OR AY MCDONALD 730F708WWFF776 OR MUELLER 105B2427N.
3. RIDGE METER SPREADER: SUPPLIED BY CONTRACTOR.
4. 2" NIPPLE: BRASS, 4" LONG MIPT x MIPT.
5. 2" UNION: BRASS.
6. 2" 90° ELBOW: BRASS.
7. 2" COUPLING: MIPT x PACK JOINT COMPRESSION AY MCDONALD FITTING #74753-33*
8. 2" IPS SERVICE LINE: 200 PSI GRADE 3408 POLYETHLENE WRAPPED WITH 10 GAUGE COATED SOLID CORE COPPER WIRE 12" OUT OF THE BOX.
9. 4" REDUCER: COMPANION FLANGE WITH 2" TAP.
10. 4" GATE VALVE: MJ x FL (SEE SECTION 5-10.6)
11. WATER MAIN TEE: DUCTILE IRON WITH 4" BRANCH, MJ (ON NEW MAINS) TAPPING TEE WITH 4" BRANCH, FL (ON EXISTING MAINS).
12. VALVE BOX: EAST JORDAN 8555* (SEE STD DETAIL 527)
13. IF METER BEING USED IS SMALLER THAN 2" THEN APPROPRIATE SIZED METER ADAPTORS ARE TO BE SUPPLIED BY THE CONTRACTOR

NO LEAD ON ALL BRASS FITTINGS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

3/13/2017
ROBERT L. FERNANDES — REGISTERED PROFESSIONAL ENGINEER

Drawn By CAC	Date 3/13/17	SCALE	
Designed By JWA	3/13/17	Horiz	
Checked By GHG	3/13/17	Vert	
Approved By RLF	3/13/17	Project Number A15.0150	

CONFORMED PLANS

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
UTILITY CONNECTION DETAILS

Drawing No. UT4
Sheet No. 27 / 79 of Total

Mar 15, 2017 - 5:21pm susann.babaei Q:\Seattle\2015\A15.0150\00\CAD\Dwgs\10_UT-04.dwg Layout Name: Layout1

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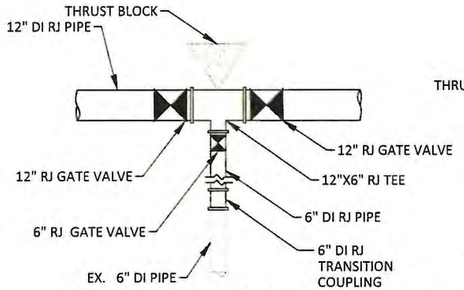
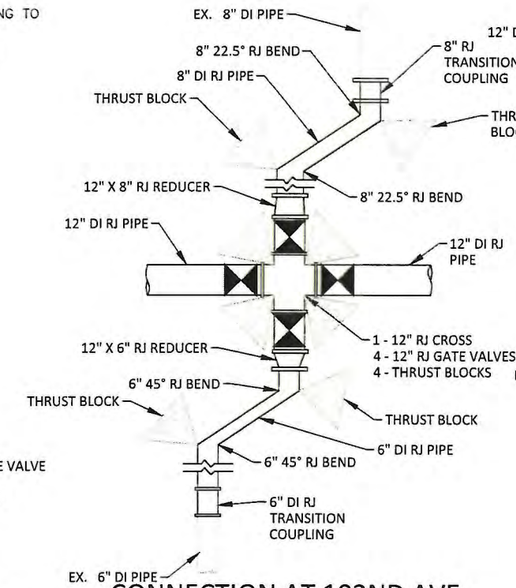
S.07 & 08 T.26N. R.05E. W.M.

GENERAL NOTES

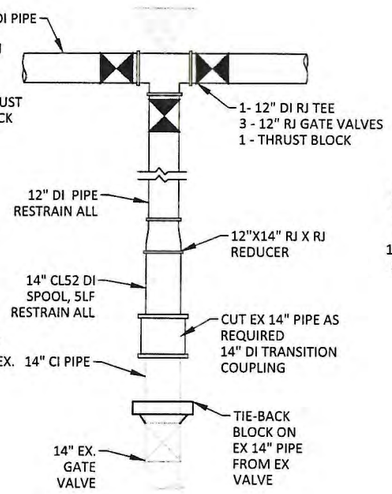
1. ALL THRUST BLOCKS SHALL BE SIZED ACCORDING TO CITY OF BOTHELL STANDARD DETAIL 530.
2. ALL JOINTS AT WATER CONNECTIONS SHALL BE RESTRAINED.



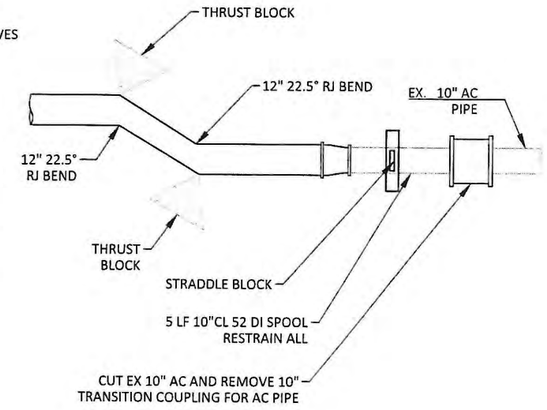
C UT3 FIRE SERVICE CONNECTION
SCALE: NTS



D UT3 CONNECTION AT 102ND AVE NE
SCALE: NTS

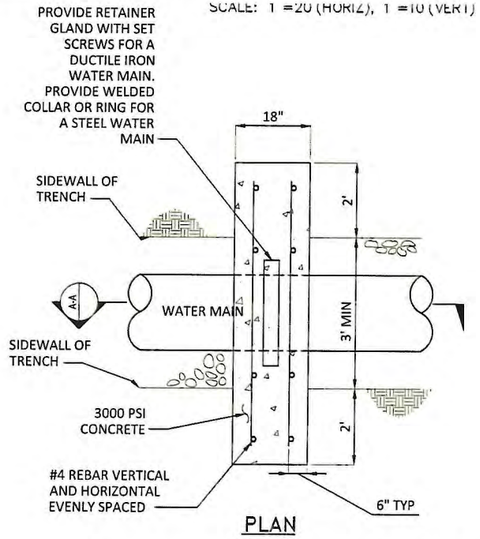


E UT3 CONNECTION AT 102ND AVE NE TO 14IN CI PIPE
SCALE: NTS

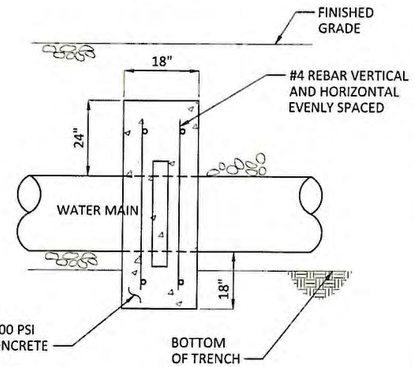


F UT3 CONNECTION TO EXISTING WATER MAIN ON MAIN STREET EAST OF 102ND AVE NE
SCALE: NTS

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)



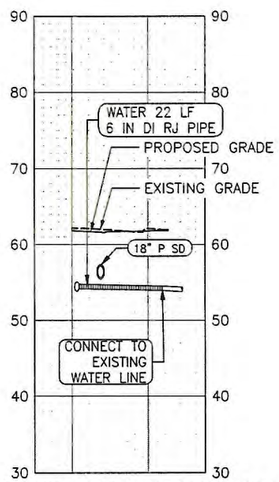
PLAN



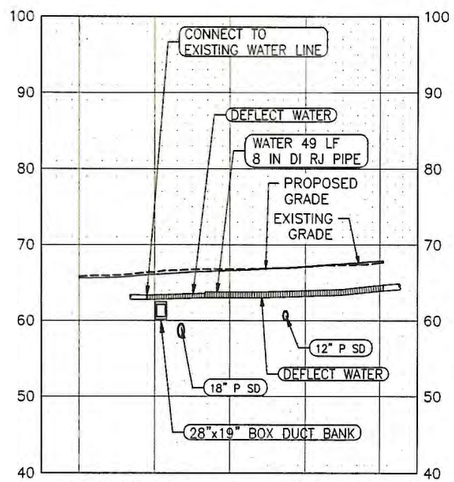
NOTES:
1. ALL BACKFILLED AND DISTURBED SOIL IN FRONT AND BACK OF THE STRADDLE BLOCK SHALL BE COMPACTED TO A MINIMUM OF 90% IN LAYERS NOT TO EXCEED 12".

SECTION A–A

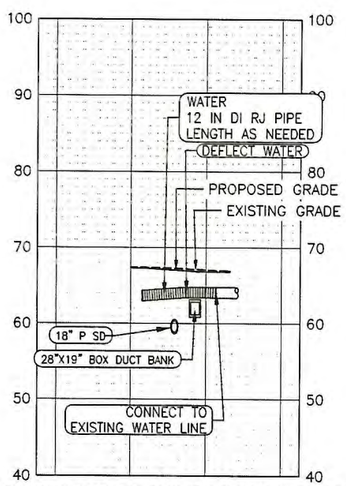
STRADDLE BLOCK
SCALE: NTS



PROFILE FOR DETAIL C LOOKING EAST
FIRE SERVICE CONNECTION
SCALE: 1"=20'(HORIZ), 1"=10'(VERT)



PROFILE FOR DETAIL D LOOKING WEST
CONNECTION AT 102ND AVE NE
SCALE: 1"=20'(HORIZ), 1"=10'(VERT)



PROFILE FOR DETAIL E LOOKING EAST
CONNECT TO 102ND AVE NE TO 14IN CI PIPE
SCALE: 1"=20'(HORIZ), 1"=10'(VERT)

3/13/2017

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
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Seattle, WA 98101
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City of Bothell

ROBERT L. FERNANDEZ — STATE OF WASHINGTON — 21600 — REGISTERED PROFESSIONAL ENGINEER

Drawn By	CAC	Date 3/13/17
Designed By	JWA	3/13/17
Checked By	GHG	3/13/17
Approved By	RLF	3/13/17

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
UTILITY CONNECTION DETAILS

Drawing No. UT5
Sheet No. 28 of Total 79

Mar 15, 2017 - 5:23pm susann babaei Q:\Seattle\2016\A15.015000\CAD\Dwgs\10_UT-05.dwg Layout Name: Layout1

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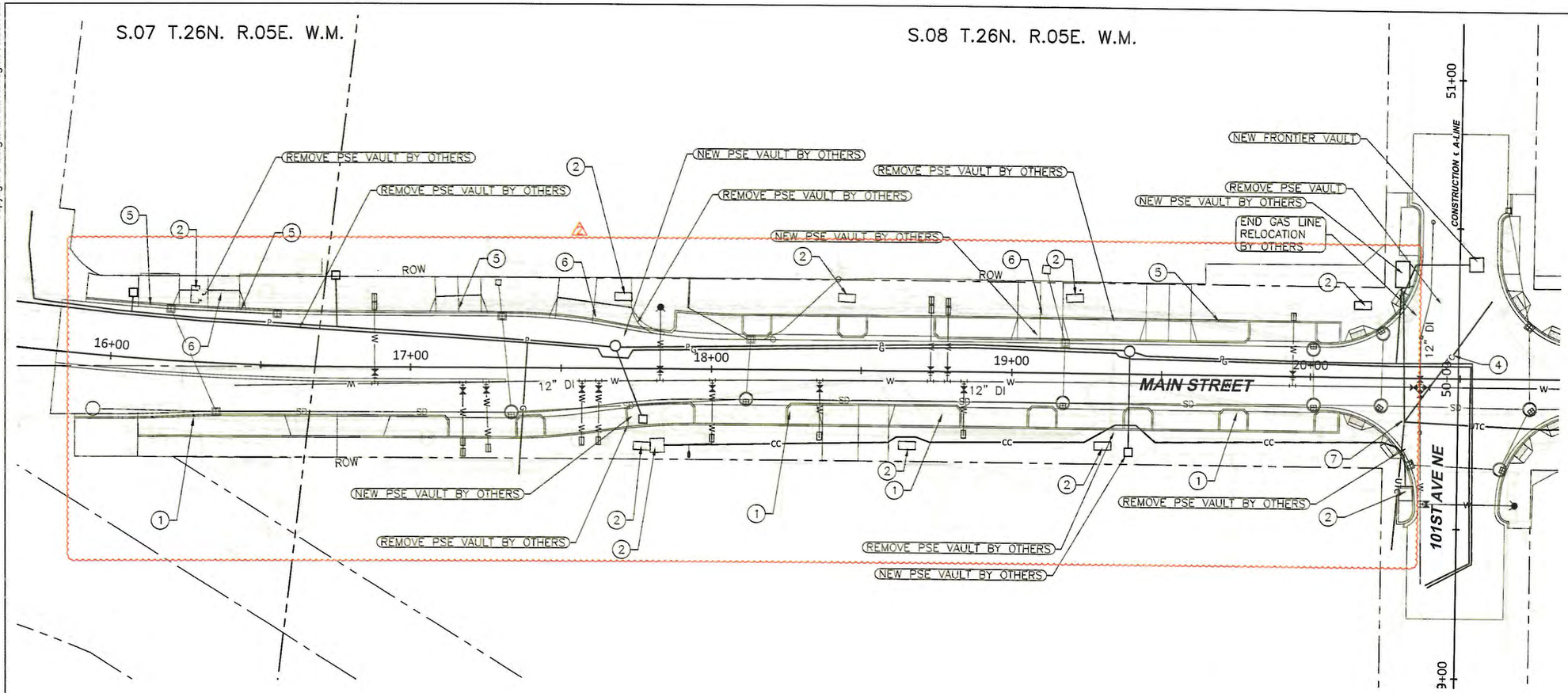
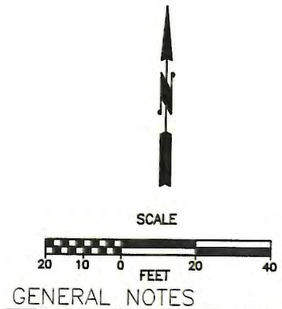




GENERAL NOTES

1. EXISTING UTILITY ELEVATIONS HAVE NOT BEEN SURVEYED AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
2. ALL PSE VAULT LIDS WILL BE ADJUSTED TO FINAL GRADE.

UTILITY CONTACT INFORMATION			
FRANCHISE	REPRESENTATIVE	PHONE NO.	EMAIL
FRONTIER	DAVID COLLINS	425-263-4020	DAVID.A.COLLINS@FTR.COM
COMCAST	HENRY FAAMOE	425-263-5342	HENRY_FAAMOE@CABLE.COMCAST.COM
PSE (INTOLIGHT)	RAWLEY ROBINS	425-456-2453	RAWLEY.ROBINS@PSE.COM
PSE (POWER)	LISA GRIFFITH	425-424-6472	LISA.GRIFFITH@PSE.COM
PSE (GAS)	JEANNE COLEMAN	425-463-6550	JEANNE.COLEMAN@PSE.COM

CONSTRUCTION NOTES

(1) EXISTING FRONTIER CONCRETE ENCASED CONDUIT. REMOVE AS REQUIRED TO CONSTRUCT PROPOSED IMPROVEMENTS.

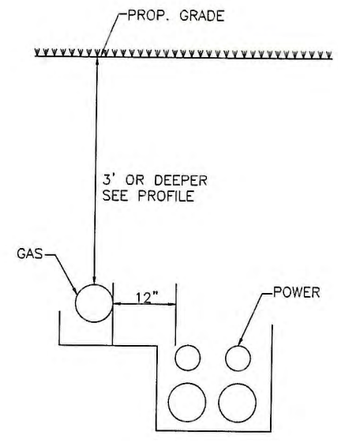
(2) ADJUST OR REPLACE VAULT AND REPLACE LID WITH ADA SURFACE TO EXISTING GRADE

(3) CONNECT TO EXISTING MANHOLE, FIELD VERIFY EXISTING INVERT ELEVATIONS PRIOR TO CONNECTION

(5) REMOVE AND RELOCATE GAS, BY OTHERS

(6) REMOVE AND RELOCATE POWER, BY OTHERS

(7) ADJUST COMM VAULT, CONDUIT RELOCATION BY OTHERS



No.	Date	Revision	By	Appr.
2	2/2	Revised Vault Locations	SB	NAS

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City of Bothell

3/13/2017

Drawn By CAC	Date 3/13/17	
Designed By JWA	3/13/17	
Checked By GHG	3/13/17	
Approved By RLF	3/13/17	

SCALE
Horiz
Vert
Project Number A15.0150

CONFORMED PLANS

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
FRANCHISE UTILITIES–SHEET 1

Drawing No. FR1
Sheet No. 29 of Total 79

Mar 16, 2017 - 9:32am susann.babaei Q:\Seattle\2015\A15.0150\00\CADD\Dwgs\11_FR-01.dwg Layout Name: Layout1

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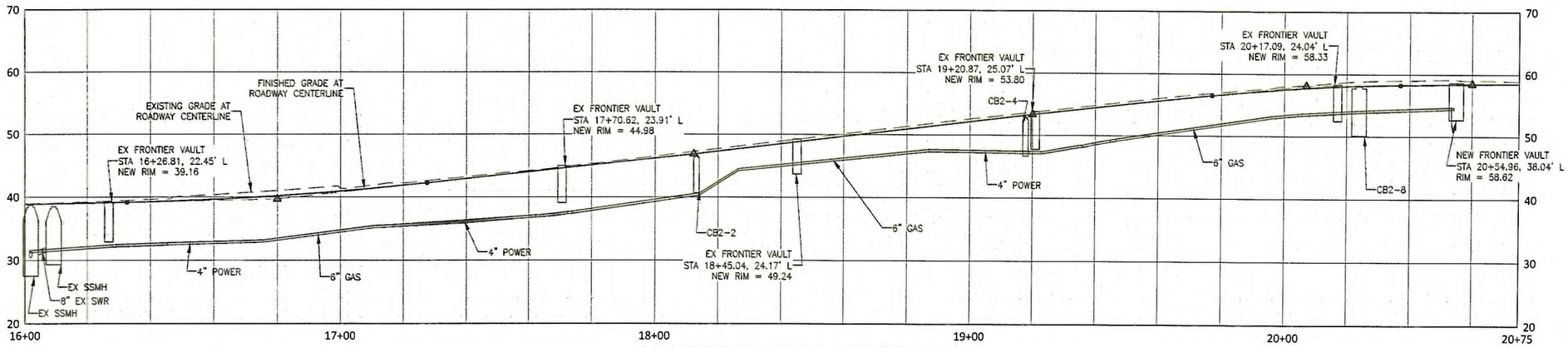
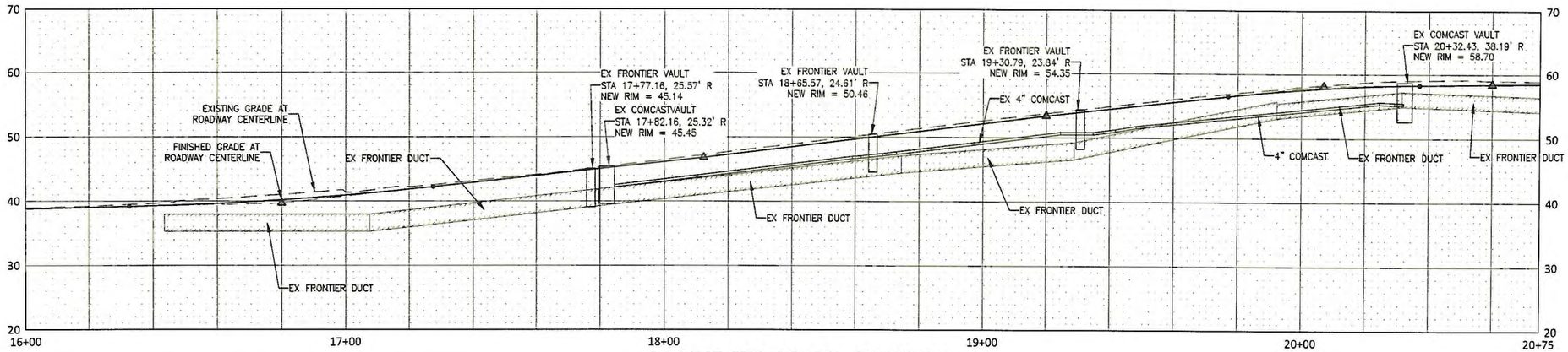


M-LINE STA 16+00 - 20+75 LT

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)



M-LINE STA 16+00 - 20+75 RT

SCALE: 1"=20'(HORIZ), 1"=10'(VERT)

No.	Date	Revision	By	Appr.
2/2		Revised PSE Gas and Power Depths, and Frontier Relocations	SB	NAS

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City of Bothell

3/13/2017

Drawn By CAC	Date 3/13/17	SCALE	
Designed By JWA	3/13/17	Horiz	
Checked By GHG	3/13/17	Vert	
Approved By RLF	3/13/17	Project Number A15.0150	

CONFORMED PLANS

CITY OF BOTHELL

MAIN STREET ENHANCEMENT

FRANCHISE UTILITIES–SHEET 2

Drawing No. FR2

Sheet No. 30 of 79 of Total

Mar 16, 2017 - 9:34am susann.babaei O:\Seattle\2015\A15.0150\00\CADD\Dwgs\11_FR-02.dwg Layout Name: Layout1

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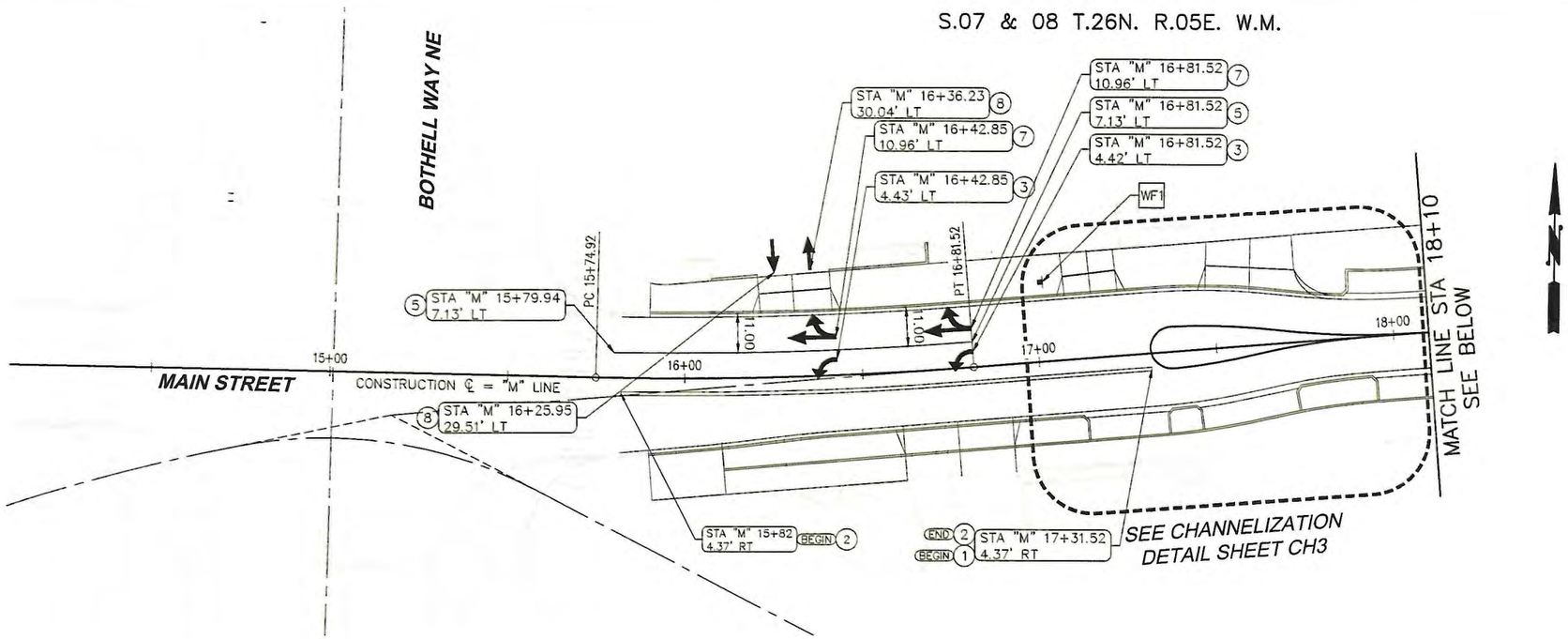
S.07 & 08 T.26N. R.05E. W.M.

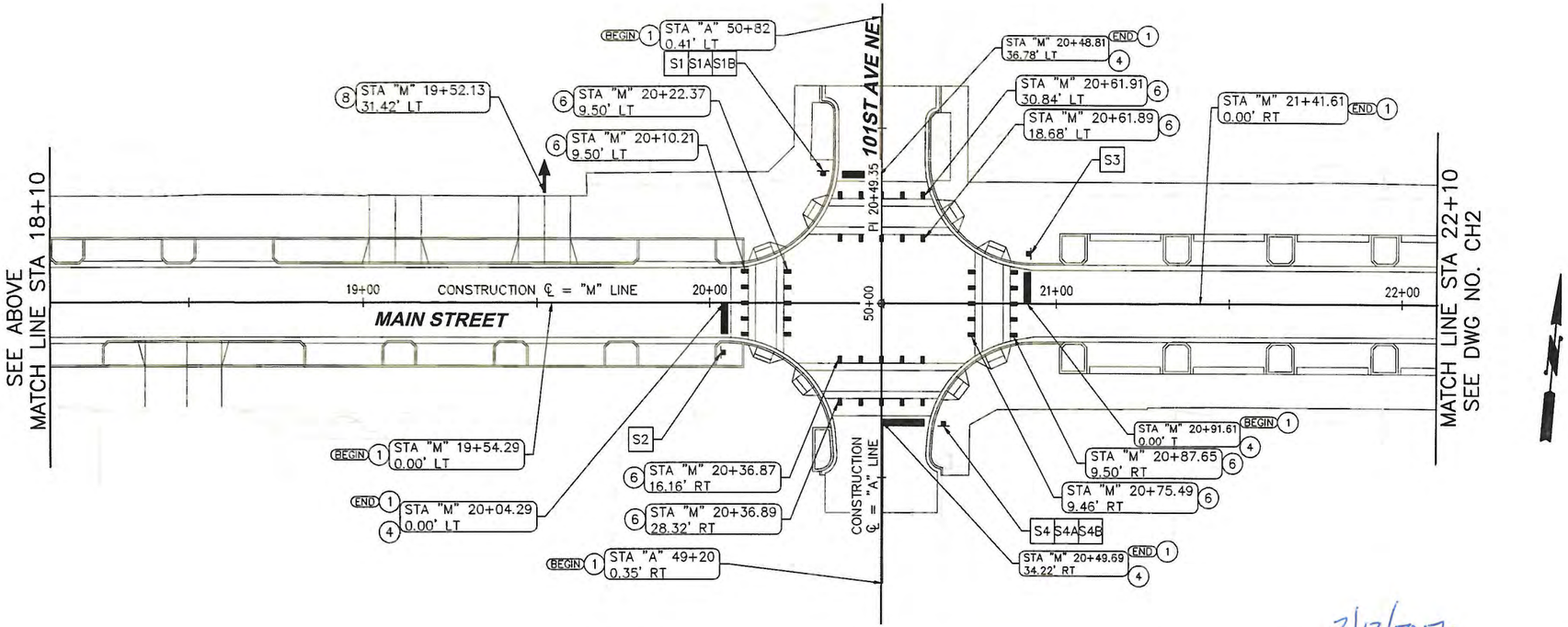


CHANNELIZATION NOTES

1. YELLOW DOUBLE CENTER LINE, PER CITY OF BOTHELL STD DETAIL 372
2. YELLOW PAINTED PRECAST DUAL FACED SLOPED MOUNTABLE CURB PER WSDOT STANDARD PLAN F-10.64-03
3. WHITE PLASTIC TRAFFIC ARROW, PER CITY OF BOTHELL STD DETAIL 374: DETAIL A
4. 2' WHITE PLASTIC STOP LINE, PER CITY OF BOTHELL STD DETAIL 380
5. WIDE SOLID LINE, PER CITY OF BOTHELL STD DETAIL 372
6. 1'X2' SOLID WHITE PLASTIC LINE
7. WHITE PLASTIC TRAFFIC ARROW, STRAIGHT/RIGHT. MIRROR IMAGE OF CITY OF BOTHELL STD DETAIL 374: DETAIL E
8. WHITE PLASTIC TRAFFIC ARROW, PER CITY OF BOTHELL STD DETAIL 374: DETAIL D

S# INSTALL SIGN AND STEEL POST PER CITY OF BOTHELL STANDARD DETAIL 391, SEE SHEET CH2 FOR SCHEDULE

WF# INSTALL WAYFINDING SIGN. MOUNT ON POST. RELOCATE FROM EXISTING LOCATION.



GENERAL NOTES

1. CROSSWALKS AT THE INTERSECTIONS AT 101ST AVE NE AND 102ND AVE NE SHALL BE DELINEATED BY DISTINCT CONCRETE PATTERN. SEE LANDSCAPE PLAN.

SCALE
20 10 0 20 40
FEET

CONFORMED PLANS

3/13/2017

No.	Date	Revision	By	Appr.

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City of Bothell

Drawn By	RAV	Date 3/13/17
Designed By	JWA	3/13/17
Checked By	GHG	3/13/17
Approved By	RLF	3/13/17

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
CHANNELIZATION – SHEET 1

Drawing No. CH1
Sheet No. 31 of Total 79

Mar 15, 2017 - 5:29pm susann.babaei Q:\Seattle\2015\A15.0150\00\CADD\Dwgs\12_CH-01.dwg Layout Name: Layout1

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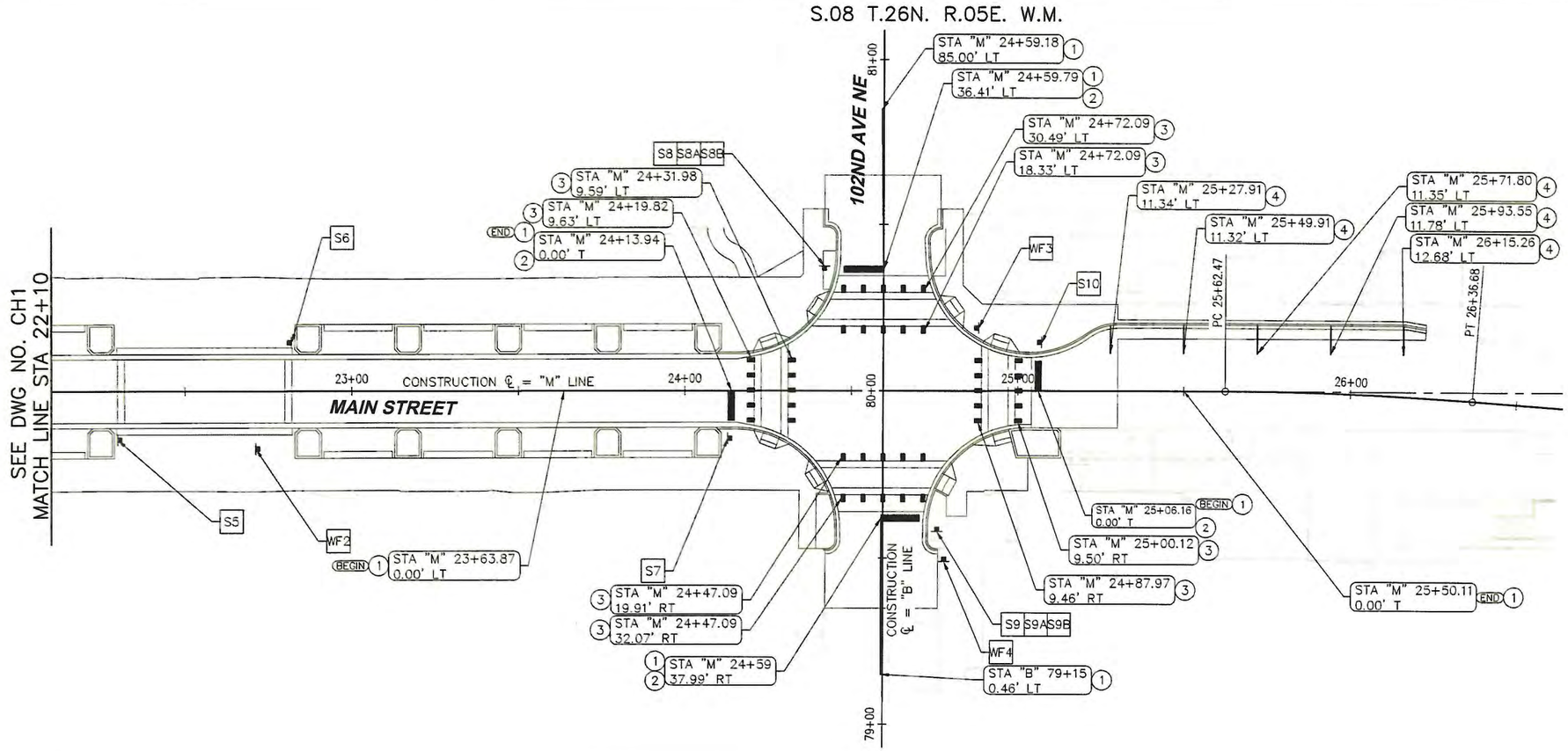

CHANNELIZATION NOTES

1. YELLOW DOUBLE CENTER LINE, PER CITY OF BOTHELL STD DETAIL 372
2. 2' WHITE PLASTIC STOP LINE, PER CITY OF BOTHELL STD DETAIL 380
3. 1'X2' SOLID WHIITE PLASTIC LINE
4. WHITE PAINT LINE

S# INSTALL SIGN AND STEEL POST PER CITY OF BOTHELL STANDARD DETAIL 391, SEE THIS SHEET FOR SCHEDULE.

WF# INSTALL WAYFINDING SIGN. MOUNT ON LIGHT POLE. MAINTAIN 1.5' MIN. HORIZONTAL CLEARANCE FROM ROADWAY. RELOCATE FROM EXISTING LOCATION.

GENERAL NOTES

1. CROSSWALKS AT THE INTERSECTIONS AT 101ST AVE NE AND 102ND AVE NE SHALL BE DELINEATED BY DISTINCT CONCRETE PATTERN. SEE LANDSCAPE PLAN.

SIGN INSTALLATION SCHEDULE

SIGN NO.	STATION	OFFSET	SIGN CODE	SIZE (IN.) X	SIZE (IN.) Y	DESCRIPTION	NOTES
S1	"M" 20+32.45	37.78' LT	R1-1	30	30	STOP	
S1A	"M" 20+32.45	37.78' LT	BOTHELL STD 385	8	VARIES	MAIN ST	MOUNT ON SAME POLE AS S1
S1B	"M" 20+32.45	37.78' LT	BOTHELL STD 385	8	VARIES	101 AVE NE	MOUNT ON SAME POLE AS S1
S2	"M" 20+03.29	14.25' RT	R1-1	30	30	STOP	
S3	"M" 20+92.61	14.25' LT	R1-1	30	30	STOP	
S4	"M" 20+67.40	35.22' RT	R1-1	30	30	STOP	
S4A	"M" 20+67.40	35.22' RT	BOTHELL STD 385	8	VARIES	MAIN ST	MOUNT ON SAME POLE AS S4
S4B	"M" 20+67.40	35.22' RT	BOTHELL STD 385	8	VARIES	101 AVE NE	MOUNT ON SAME POLE AS S4
S5	"M" 22+29.94	14.5' RT	W11-2	30	30	PEDESTRIAN CROSSING	
S5A	"M" 22+29.94	14.5' RT	W16-7P	24	12	DOWNWARD DIAGONAL ARROW (PLAQUE)	MOUNT ON SAME POLE AS S5
S6	"M" 22+81.95	14.5' LT	W11-2	30	30	PEDESTRIAN CROSSING	
S6A	"M" 22+81.95	14.5' LT	W16-7P	24	12	DOWNWARD DIAGONAL ARROW (PLAQUE)	MOUNT ON SAME POLE AS S6
S7	"M" 24+12.87	14.25' RT	R1-1	30	30	STOP	
S8	"M" 24+41.83	37.41' LT	R1-1	30	30	STOP	
S8A	"M" 24+41.83	37.41' LT	BOTHELL STD 385	8	VARIES	MAIN ST	MOUNT ON SAME POLE AS S8
S8B	"M" 24+41.83	37.41' LT	BOTHELL STD 385	8	VARIES	102 AVE NE	MOUNT ON SAME POLE AS S8
S9	"M" 24+75.80	42.00' RT	R1-1	30	30	STOP	
S9A	"M" 24+75.80	42.00' RT	BOTHELL STD 385	8	VARIES	MAIN ST	MOUNT ON SAME POLE AS S9
S9B	"M" 24+75.80	42.00' RT	BOTHELL STD 385	8	VARIES	102 AVE NE	MOUNT ON SAME POLE AS S9
S10	"M" 25+07.16	14.52' LT	R1-1	30	30	STOP	

WAYFINDING SIGN INSTALLATION SCHEDULE

SIGN NO.	STATION	OFFSET	SIZE (IN.) X	SIZE (IN.) Y	NOTES
WF1	"M" 17+02.46	22.41' LT	46	47	MOUNT ON POST
WF2	"M" 22+71.15	17.25' RT	46	47	MOUNT ON LIGHT POLE
WF3	"M" 24+88.11	18.80' LT	46	47	MOUNT ON LIGHT POLE
WF4	"M" 24+77.87	50.99' RT	46	47	MOUNT ON LIGHT POLE. MAINTAIN 1.5' HORIZONTAL CLEARANCE FROM EDGE OF ROADWAY.

SCALE
20 10 0 FEET 20 40

CONFORMED PLANS

No.	Date	Revision	By	Appr.

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City of Bothell

3/13/2017
ROBERT L. FERNANDES — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

		Date
Drawn By	RAV	3/13/17
Designed By	JWA	3/13/17
Checked By	GHG	3/13/17
Approved By	RLF	3/13/17

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
CHANNELIZATION – SHEET 2

Drawing No. CH2
Sheet No. 32 of Total 79

Mar 15, 2017 - 5:31pm susann.babaei O:\Seattle\2015\A15.0150\00\CADD\Dwgs\12_CH-02.dwg Layout Name: Layout1

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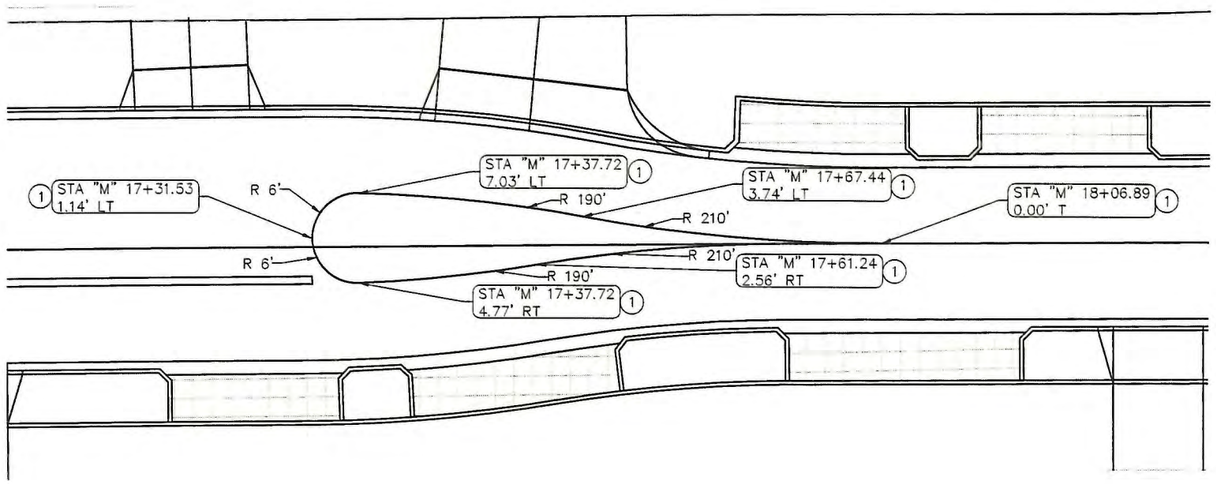
S.08 T.26N. R.05E. W.M.



CHANNELIZATION NOTES

(1) YELLOW DOUBLE CENTER LINE, PER CITY OF BOTHELL STD DETAIL 372

Mar 15, 2017 - 5:32pm susann babaei Q:\Seattle\2015\A15.015000\CADD\Dwgs\12_CH-03.dwg Layout Name: Layout1

No.	Date	Revision	By	Appr.

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City of Bothell

3/13/2017

RUBEN L. FERNANDES — STATE OF WASHINGTON — 21000 — REGISTERED PROFESSIONAL ENGINEER

Drawn By RAV	Date 3/13/17	SCALE
Designed By JWA	3/13/17	Horiz
Checked By GHG	3/13/17	Vert
Approved By RLF	3/13/17	Project Number A15.0150

CONFORMED PLANS

CITY OF BOTHELL

MAIN STREET ENHANCEMENT

CHANNELIZATION DETAIL

Drawing No. CH3

Sheet No. 33 of 79 Total

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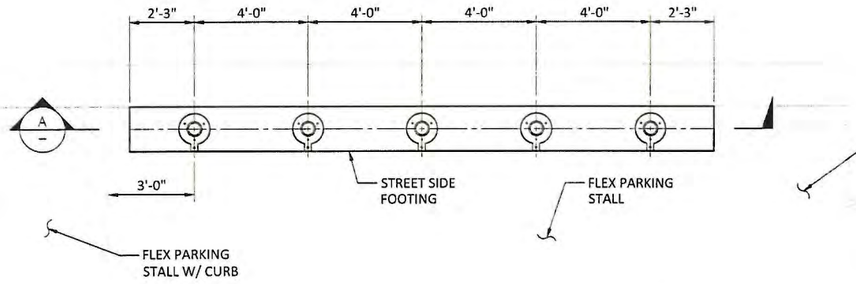
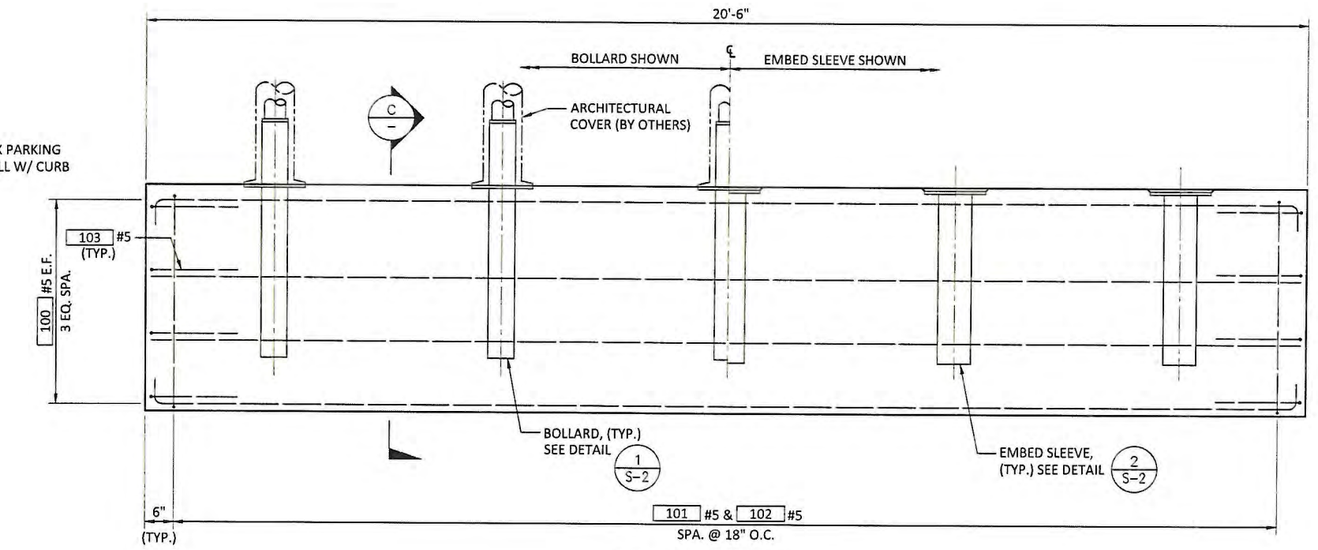
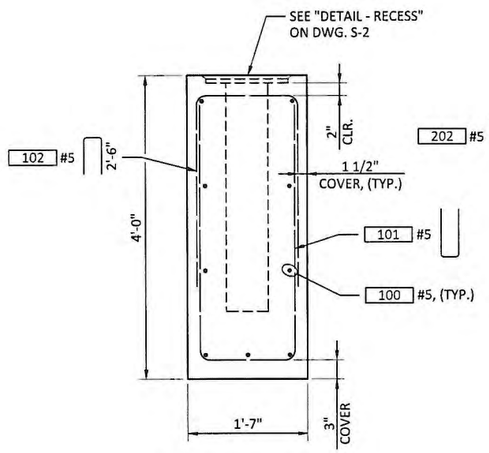




A – SECTION
(SECTION SYMMETRIC ABT. ℄)

FLEX PARKING STALL PLAN
(SEE CIVIL PLANS FOR FLEX PARKING STALL LOCATIONS)



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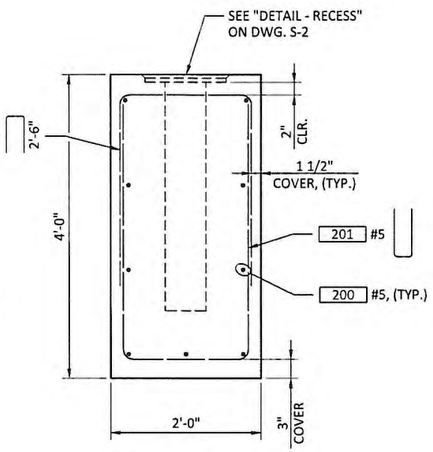
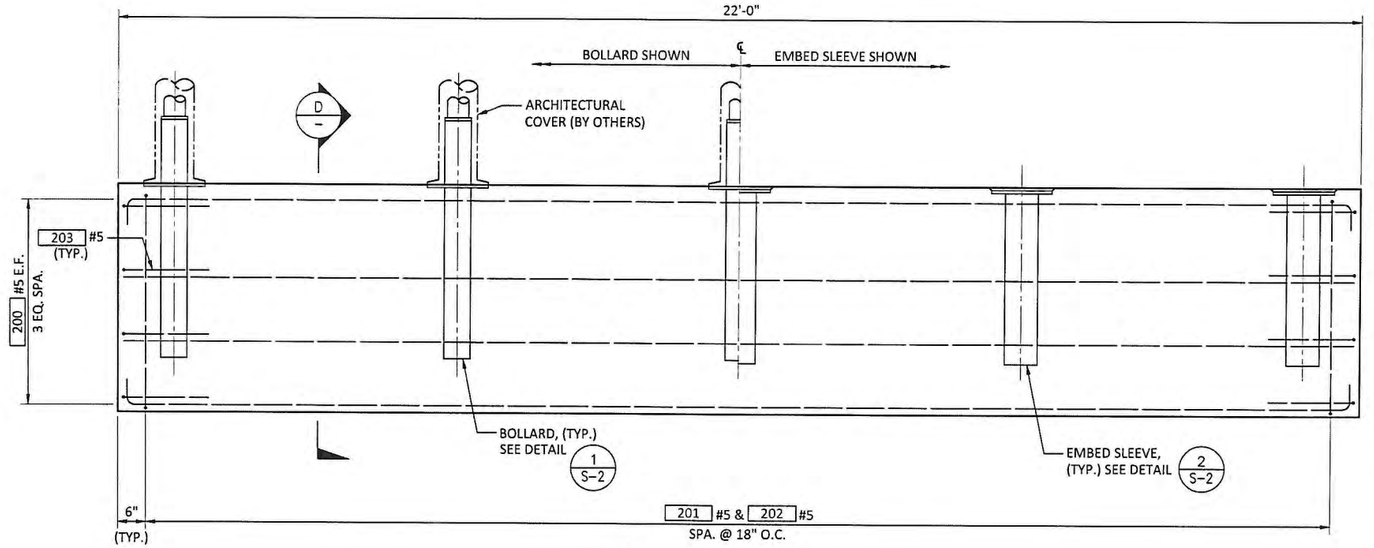


D – SECTION



B – SECTION
(SECTION SYMMETRIC ABT. ℄)

3/13/2017

CONFORMED PLANS

No.	Date	Revision	By	Appr.

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City of Bothell

ROBERT L. FERNANDES – STATE OF WASHINGTON – 19009 – REGISTERED STRUCTURAL ENGINEER

Drawn By LNC	Date 3/13/17	SCALE	
Designed By TMP	3/13/17	Horiz	
Checked By GAB	3/13/17	Vert	
Approved By RLF	3/13/17	Project Number A15.0150	

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STRUCTURAL – SHEET 1

Drawing No. S1
Sheet No. 34 of 79 Total

Mar 15, 2017 - 5:33pm susann.babael O:\Seattle\2015\A15.0150\00\CADD\Dwgs\13_S-01.dwg Layout Name: Layout1

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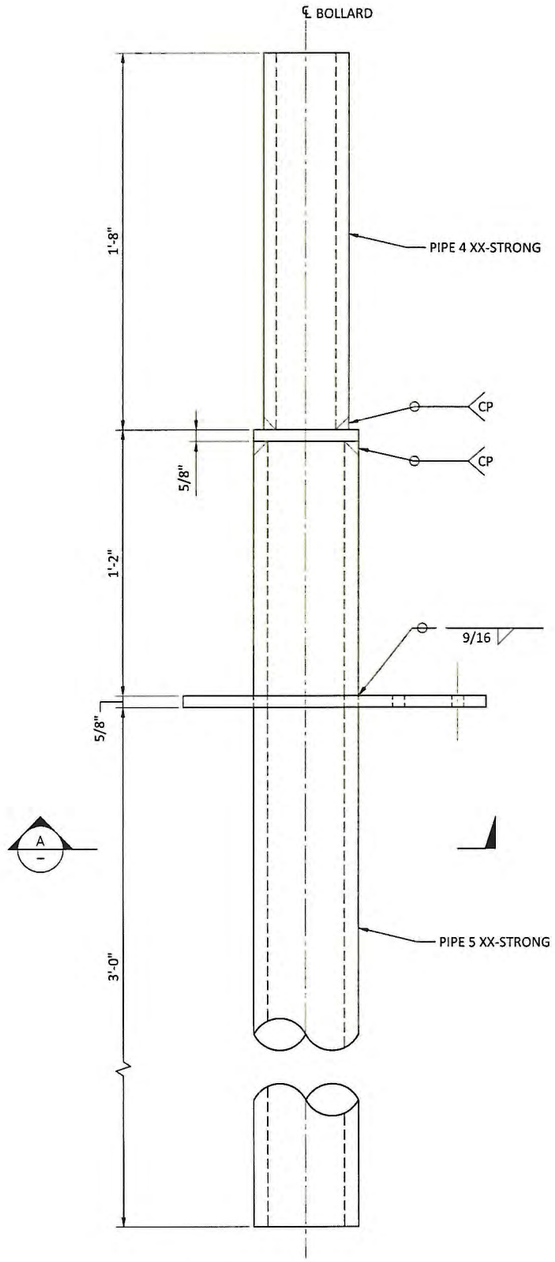
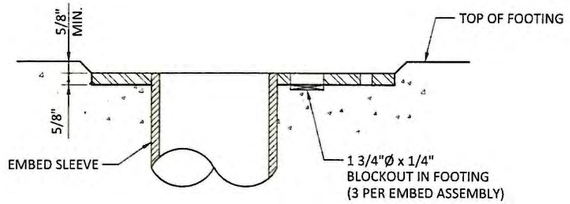
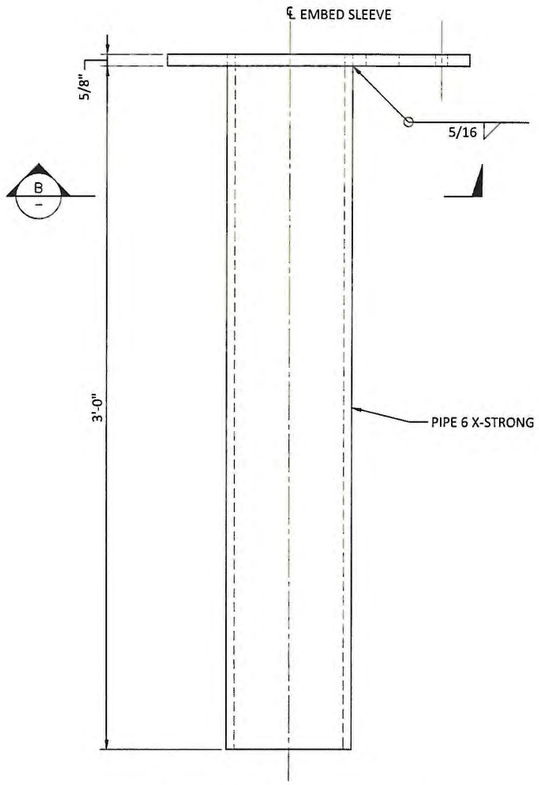


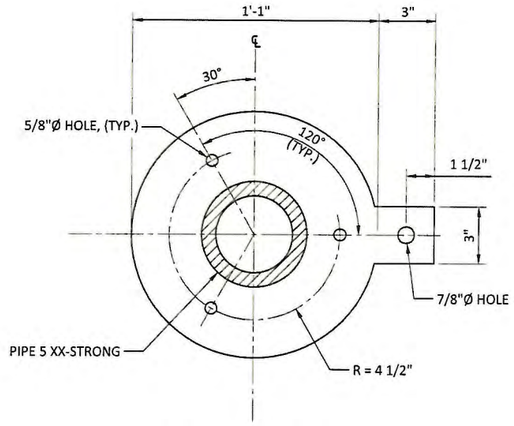
1 DETAIL - BOLLARD



DETAIL - RECESS



2 DETAIL - EMBED SLEEVE



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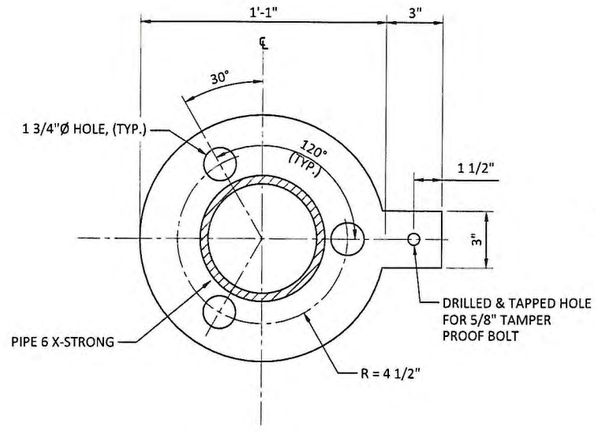
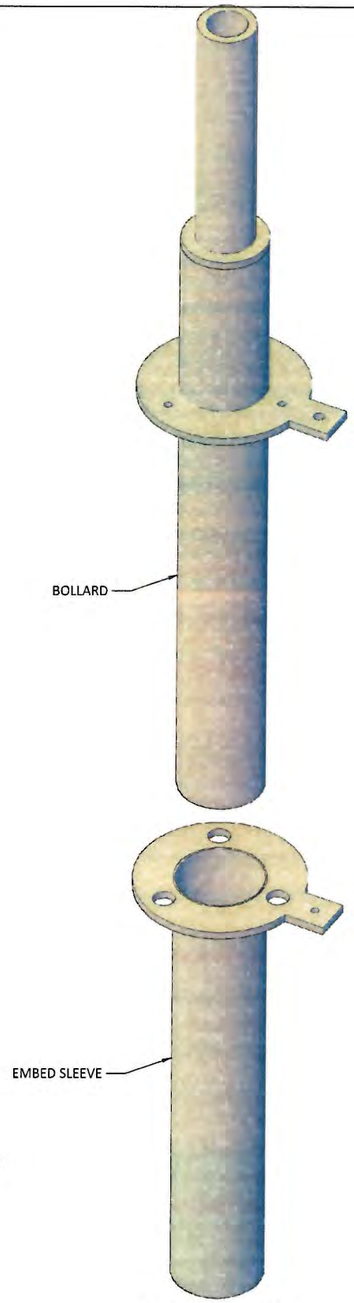


B SECTION



ISOMETRIC - BOLLARD ASSEMBLY

3/13/2017

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
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City of Bothell

ROBERT L. FERNANDES — STATE OF WASHINGTON — 19009 — REGISTERED PROFESSIONAL ENGINEER

Drawn By LWC	Date 3/13/17	SCALE	
Designed By TMP	3/13/17	Horiz	
Checked By GAB	3/13/17	Vert	
Approved By RLF	3/13/17	Project Number A15.0150	

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STRUCTURAL – SHEET 2

Drawing No. S2
Sheet No. 35 of Total 79

Mar 15, 2017 - 5:34pm susann babael Q:\Seattle\2015\A15.0150\00\CADD\Dwgs\13_S-02.dwg Layout Name: Layout1

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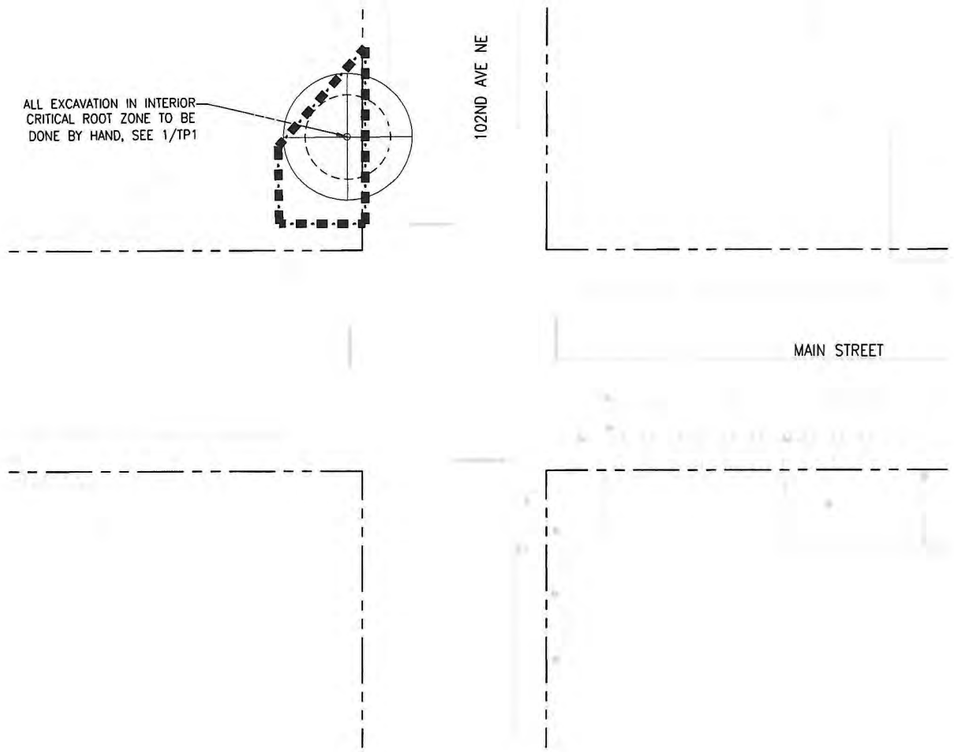


TREE PROTECTION NOTES

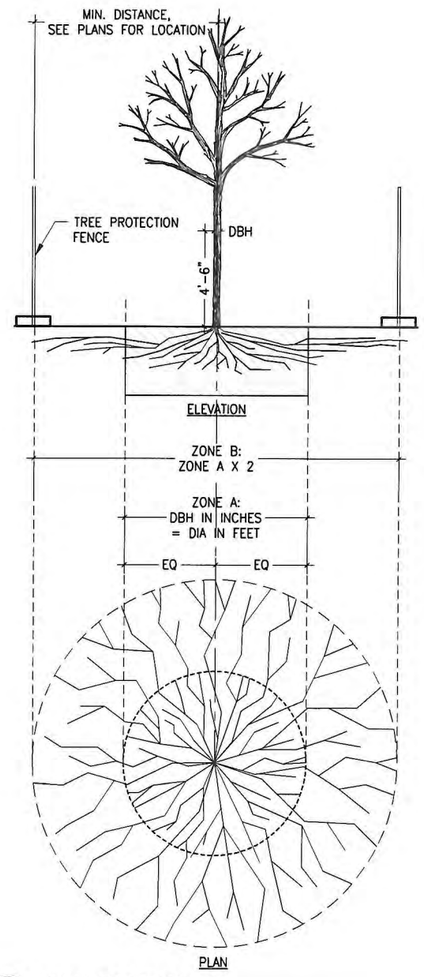
1. TREE PROTECTION AREA SHALL BE DEFINED AS A CIRCULAR AREA THAT HAS A RADIUS OF 12" TO EVERY INCH DIAMETER OF TRUNK PER DIAMETER AT BREAST HEIGHT (DBH).
2. TREE PROTECTION FENCING TO BE INSTALLED AS SHOWN IN PLANS. TREE PROTECTION FENCING SHALL BE ORANGE HIGH VISIBILITY FENCING PER WSDOT 9-14.5(8). REMOVE FENCING ONLY AFTER ALL CONSTRUCTION IS COMPLETE.
3. DO NOT USE AREA BEYOND THE CLEARING LIMITS FOR ANY REASON. USE OF THE AREA WITHIN THE FENCE SHALL BE ONLY AS APPROVED BY OWNER.
4. SOIL MOISTURE SHALL BE CONTROLLED WITHIN THE TREE PROTECTION AREA. PREVENT FLOODING OF THE SOIL AND PROTECT ROOT AREAS FROM RUNOFF FROM CEMENT, OIL AND ALL OTHER CONTAMINANTS.
5. DO NOT ALTER GRADES WITHIN TREE PROTECTION AREA.
6. CUT OFF ROOTS CLEANLY WITH APPROPRIATE TOOL WHEN ROOTS ARE EXPOSED DUE TO APPROVED DEMOLITION ACTIVITIES. AVOID ALL TEARS AND BREAKS IN ROOT SURFACES. DURING THE TIME OF EXPOSURE KEEP ROOTS MOIST WITH WET MULCH, COMPOST OR TOPSOIL. HAND DIG TRENCHES IN AREAS WITH EXTENSIVE ROOTS. LEAVE INTACT AND UNDAMAGED ROOTS LARGER THAN THREE INCHES IN DIAMETER. PLACE UTILITY CONDUIT EITHER UNDER ROOTS BY TUNNELING OR OVER ROOTS WITH 18" MINIMUM BEDDING.
7. CONTRACTOR SHALL PAY THE OWNER DAMAGES FOR EVERY TREE LOST OR IN THE OPINION OF A CERTIFIED ARBORIST IRREPARABLY DAMAGED AS A RESULT OF FAILURE TO PROTECT OR TO ADEQUATELY MAINTAIN EXISTING TREES.
8. DAMAGES TO BE PAID BY CONTRACTOR TO THE OWNER SHALL BE AS REQUIRED BY WSDOT 1-07.16(2)
9. SEE SP1-SP2 FOR ALL OTHER SITE PREPARATION AND EROSION CONTROL.
10. SEE TP-1 DETAIL 1 FOR ROOT PROTECTION DETAIL.
11. PROTECTION OF DESIGNATED EXISTING VEGETATION AREAS INCLUDES WATERING AS NEEDED, WEEDING AND REMOVAL OF DEBRIS IN ORDER FOR VEGETATION TO REMAIN HEALTHY THROUGHOUT CONSTRUCTION.
12. TREE PROTECTION FENCING LOCATION TO BE APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
13. DESIGN INTENT: NEW CURBS AND EDGES OF CONCRETE SIDEWALKS INTENDED TO MATCH EXTENTS OF BEDS OR BE LARGER.

LEGEND

EXISTING STREET TREE TO BE SAVED

TREE PROTECTION FENCING

INTERIOR CRITICAL ROOT ZONE (ZONE A)



1 TREE PROTECTION
SCALE: 1" = 1'-0"

SPECIAL CONSTRUCTION REQUIREMENTS (TRENCHING/EXCAVATION)

ZONE A (INTERIOR CRITICAL ROOT ZONE)
1. NO DISTURBANCE ALLOWED WITHOUT SITE-SPECIFIC INSPECTION AND APPROVAL OF METHODS TO MINIMIZE ROOT DAMAGE.
2. ROOTS LARGER THAN 1" DIA ARE TO BE PROTECTED. SEVERANCE OF ANY ROOTS REQUIRES ARBORIST'S APPROVAL PER WSDOT 1-07.16(2).
3. TUNNELING REQUIRED TO INSTALL LINES 3'-0" BELOW GRADE OR DEEPER.

ZONE B (OUTER CRITICAL ROOT ZONE)
1. OPERATION OF HEAVY EQUIPMENT AND/OR STOCKPILING OF MATERIALS SUBJECT TO ARBORIST'S APPROVAL. SURFACE PROTECTION* MEASURES REQUIRED.
2. TRENCHING ALLOWED AS FOLLOWS:
   - EXCAVATION BY HAND OR WITH HAND-DRIVEN TRENCHER MAY BE REQUIRED;
   - AIR TRENCHING;
   - LIMIT TRENCH WIDTH. DO NOT DISTURB ZONE A; MAINTAIN 2/3 OR MORE OF ZONE B IN UNDISTURBED CONDITION;
   - ENGINEER'S APPROVAL.
3. TUNNELING MAY BE REQUIRED FOR TRENCHES DEEPER THAN 3'-0"

FENCING/ROOT PROTECTION
1. FENCING TO BE PROVIDED AND MAINTAINED AT LIMITS OF OUTER CRITICAL ROOT ZONE OR AS SHOWN IN PLANS.
2. ENGINEER'S APPROVAL REQUIRED FOR USE/ACCESS WITHIN ZONE B.
3. PERMISSION FOR USE/ACCESS REQUIRES SURFACE PROTECTION FOR ALL UNFENCED, UNPAVED SURFACES WITHIN CRITICAL ROOT ZONE

* SURFACE PROTECTION MEASURES
1. TEMPORARY ACCESS: MULCH LAYER, 6"-8" DEPTH, & 3/4" PLYWOOD SHEETS
2. RECURRING ACCESS: MULCH LAYER, 6"-8" DEPTH, & STEEL PLATES

SCALE
20 10 0 20 40
FEET

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
3/13/17
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

CASCADE DESIGN COLLABORATIVE

Drawn By DB	Date 03/13/2017
Designed By ES	03/13/2017
Checked By ES	03/13/2017
Approved By	03/13/2017
SCALE	
Horiz	
Vert	
Project Number A15.0150	

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
TREE PROTECTION PLAN

Drawing No. TP1
Sheet No. 36 of Total 79

Mar 15, 2017 - 4:37pm davidb U:\Bothell Main Street\DWG\MAIN-TP.dwg Layout Name: TP-1

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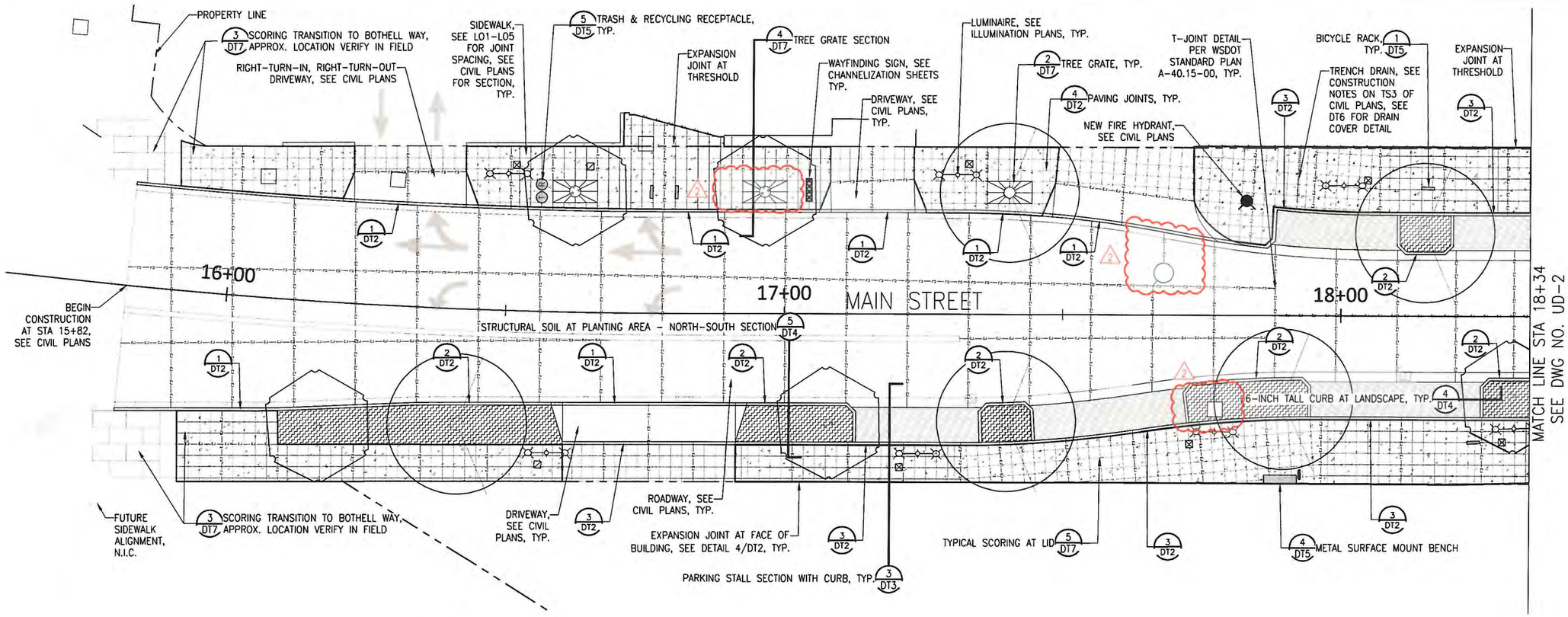

GENERAL NOTES

1. BICYCLE RACK AT 24+15 RT TO BE SALVAGED AND REINSTALLED, SEE SP2.
2. SEE L01-L05 FOR ALL JOINT LAYOUT. ALL ROADWAY JOINTING TO BE DIMENSIONED FROM LAYOUT PLAN SHEETS, SEE CIVIL PLANS FOR ROADWAY SECTION, ROADWAY JOINTING DETAILS, AND ROADWAY TIE BAR DETAILS.
3. SEE L05 FOR TYPICAL SCORING DETAIL.
4. SEE CIVIL PLANS FOR LAYOUT OF ALL CURBS.
5. SEE ILLUMINATION PLANS FOR LAYOUT OF ALL LUMINAIRES.
6. CURB JOINTS AND GUTTER PAN JOINTS TO ALIGN WITH ROADWAY JOINTING WHERE POSSIBLE.

LEGEND

- CEMENT CONC. SIDEWALK SEE CIVIL PLANS, SEE 4/DT2 FOR JOINTING
- CONCRETE UNIT PAVERS ON BEDDING SAND, SEE DETAILS 1,3/DT3
- CONCRETE UNIT PAVERS ON BITUMINOUS SETTING BED, SEE 2/DT3
- PLANTED AREA
- CAST IRON DETECTABLE WARNING SURFACE
- REMOVABLE BOLLARD SOCKET
- REMOVABLE BOLLARD
- METAL SEAT TOP
- METAL BENCH
- BISTRO TABLE AND CHAIRS
- LUMINAIRES, SEE ILLUMINATION PLANS
- BICYCLE RACKS
- TRASH AND RECYCLING RECEPTACLES
- CONTAINER PLANTER
- EXISTING FIRE HYDRANT
- NEW FIRE HYDRANT
- WAYFINDING SIGN
- SAW-CUT CONTRACTION JOINT
- EXPANSION JOINT
- CONSTRUCTION JOINT
- TREE GRATE
- NEW STREET TREE
- EXISTING STREET TREE

SCALE
10 5 0 10 20
FEET

STATE OF WASHINGTON
REGISTERED LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273
3/13/17

CONFORMED PLANS

No.	Date	Revision	By	Appr.
2	2/2/17	TREE AND TREE GRATE MOVED 2' EAST, RELOCATED VAULTS	DB	ES

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City of Bothell

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Date	03/13/2017
Designed By	ES
Date	03/13/2017
Checked By	ES
Date	03/13/2017
Approved By	
Date	03/13/2017
SCALE	
Horiz	
Vert	
Project Number	A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
URBAN DESIGN PLAN

Drawing No. UD1
Sheet No. 37 of 79 of Total

Mar 15, 2017 - 4:38pm davidb U:\Bothell Main Street\DWG\MAIN-UD.dwg Layout Name: UD-1

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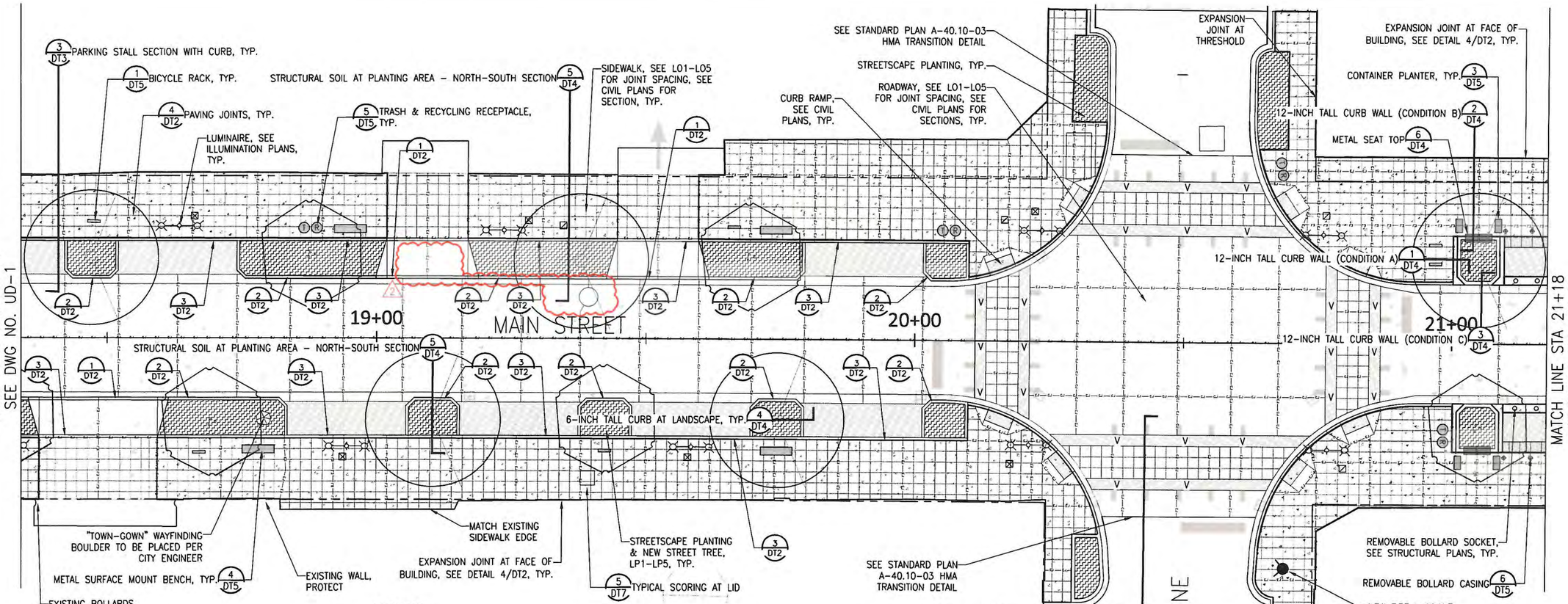

GENERAL NOTES

1. BICYCLE RACK AT 24+15 RT TO BE SALVAGED AND REINSTALLED, SEE SP2.
2. SEE L01–L05 FOR ALL JOINT LAYOUT. ALL ROADWAY JOINTING TO BE DIMENSIONED FROM LAYOUT PLAN SHEETS, SEE CIVIL PLANS FOR ROADWAY SECTION, ROADWAY JOINTING DETAILS, AND ROADWAY TIE BAR DETAILS.
3. SEE L05 FOR TYPICAL SCORING DETAIL.
4. SEE CIVIL PLANS FOR LAYOUT OF ALL CURBS.
5. SEE ILLUMINATION PLANS FOR LAYOUT OF ALL LUMINAIRES.
6. CURB JOINTS AND GUTTER PAN JOINTS TO ALIGN WITH ROADWAY JOINTING WHERE POSSIBLE.

LEGEND

- CEMENT CONC. SIDEWALK SEE CIVIL PLANS, SEE 4/DT2 FOR JOINTING
- CONCRETE UNIT PAVERS ON BEDDING SAND, SEE DETAILS 1,3/DT3
- CONCRETE UNIT PAVERS ON BITUMINOUS SETTING BED, SEE 2/DT3
- PLANTED AREA
- CAST IRON DETECTABLE WARNING SURFACE
- REMOVABLE BOLLARD SOCKET
- REMOVABLE BOLLARD
- METAL SEAT TOP
- METAL BENCH
- BISTRO TABLE AND CHAIRS
- LUMINAIRES, SEE ILLUMINATION PLANS
- BICYCLE RACKS
- TRASH AND RECYCLING RECEPTACLES
- CONTAINER PLANTER
- EXISTING FIRE HYDRANT
- NEW FIRE HYDRANT
- WAYFINDING SIGN
- SAW–CUT CONTRACTION JOINT
- EXPANSION JOINT
- CONSTRUCTION JOINT
- TREE GRATE
- NEW STREET TREE
- EXISTING STREET TREE

SCALE
10 5 0 10 20
FEET

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
3/13/17
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

CONFORMED PLANS

No.	Date	Revision	By	Appr.
2	3/2/17	VAULT MOVED EAST	DB	ES

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City of Bothell

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Designed By	ES	03/13/2017
Checked By	ES	03/13/2017
Approved By		03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
URBAN DESIGN PLAN

Drawing No. UD2
Sheet No. 38 of Total 79

Mar 15, 2017 - 4:39pm davidb L:\Bothell Main Street\DWG\MAIN-UD.dwg Layout Name: UD-2

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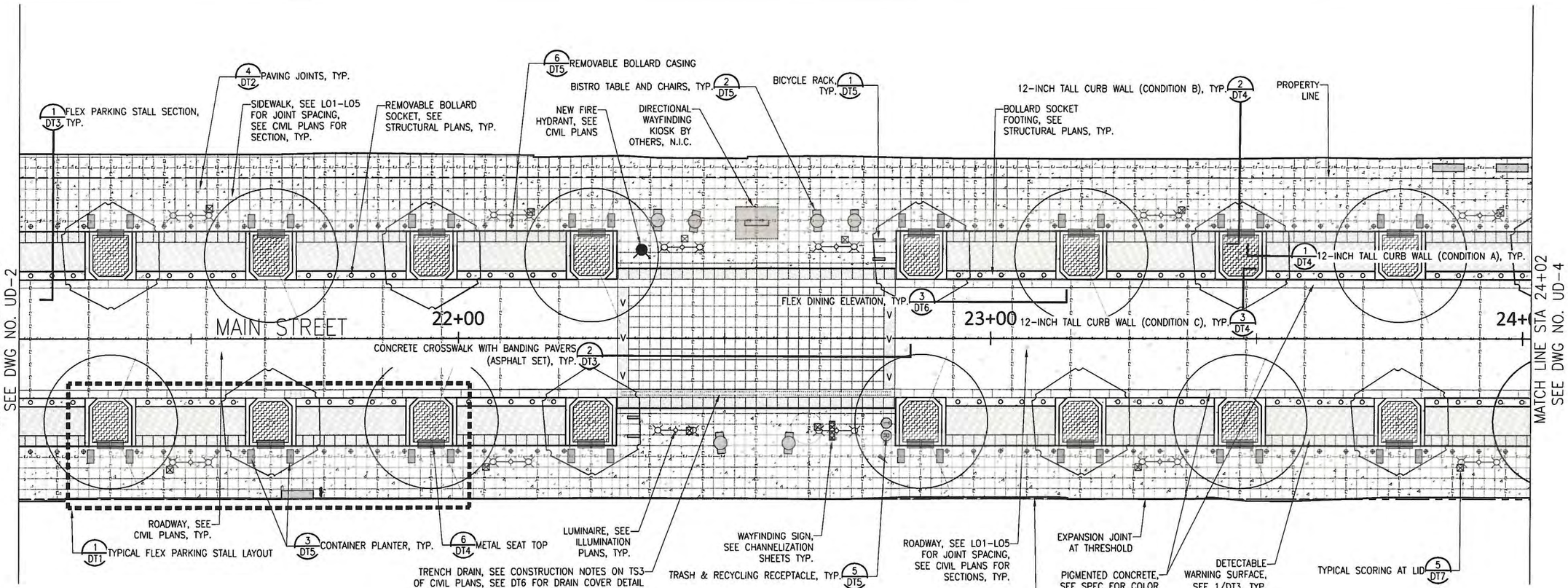

GENERAL NOTES

1. BICYCLE RACK AT 24+15 RT TO BE SALVAGED AND REINSTALLED, SEE SP2.
2. SEE L01-L05 FOR ALL JOINT LAYOUT. ALL ROADWAY JOINTING TO BE DIMENSIONED FROM LAYOUT PLAN SHEETS, SEE CIVIL PLANS FOR ROADWAY SECTION, ROADWAY JOINTING DETAILS, AND ROADWAY TIE BAR DETAILS.
3. SEE L05 FOR TYPICAL SCORING DETAIL.
4. SEE CIVIL PLANS FOR LAYOUT OF ALL CURBS.
5. SEE ILLUMINATION PLANS FOR LAYOUT OF ALL LUMINAIRES.
6. CURB JOINTS AND GUTTER PAN JOINTS TO ALIGN WITH ROADWAY JOINTING WHERE POSSIBLE.

LEGEND

- CEMENT CONC. SIDEWALK SEE CIVIL PLANS, SEE 4/DT2 FOR JOINTING
- CONCRETE UNIT PAVERS ON BEDDING SAND, SEE DETAILS 1,3/DT3
- CONCRETE UNIT PAVERS ON BITUMINOUS SETTING BED, SEE 2/DT3
- PLANTED AREA
- CAST IRON DETECTABLE WARNING SURFACE
- REMOVABLE BOLLARD SOCKET
- REMOVABLE BOLLARD
- METAL SEAT TOP
- METAL BENCH
- BISTRO TABLE AND CHAIRS
- LUMINAIRES, SEE ILLUMINATION PLANS
- BICYCLE RACKS
- TRASH AND RECYCLING RECEPTACLES
- CONTAINER PLANTER
- EXISTING FIRE HYDRANT
- NEW FIRE HYDRANT
- WAYFINDING SIGN
- SAW-CUT CONTRACTION JOINT
- EXPANSION JOINT
- CONSTRUCTION JOINT
- TREE GRATE
- NEW STREET TREE
- EXISTING STREET TREE

SCALE
10 5 0 10 20
FEET

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273
3/13/17

CONFORMED PLANS

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City of Bothell

CASCADE DESIGN COLLABORATIVE

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Designed By	ES	03/13/2017
Checked By	ES	03/13/2017
Approved By		03/13/2017

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Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
URBAN DESIGN PLAN

Drawing No. UD3
Sheet No. 39 of Total 79

Mar 15, 2017 - 4:39pm davidb L:\Bothell Main Street\DWG\MAIN-UD.dwg Layout Name: UD-3

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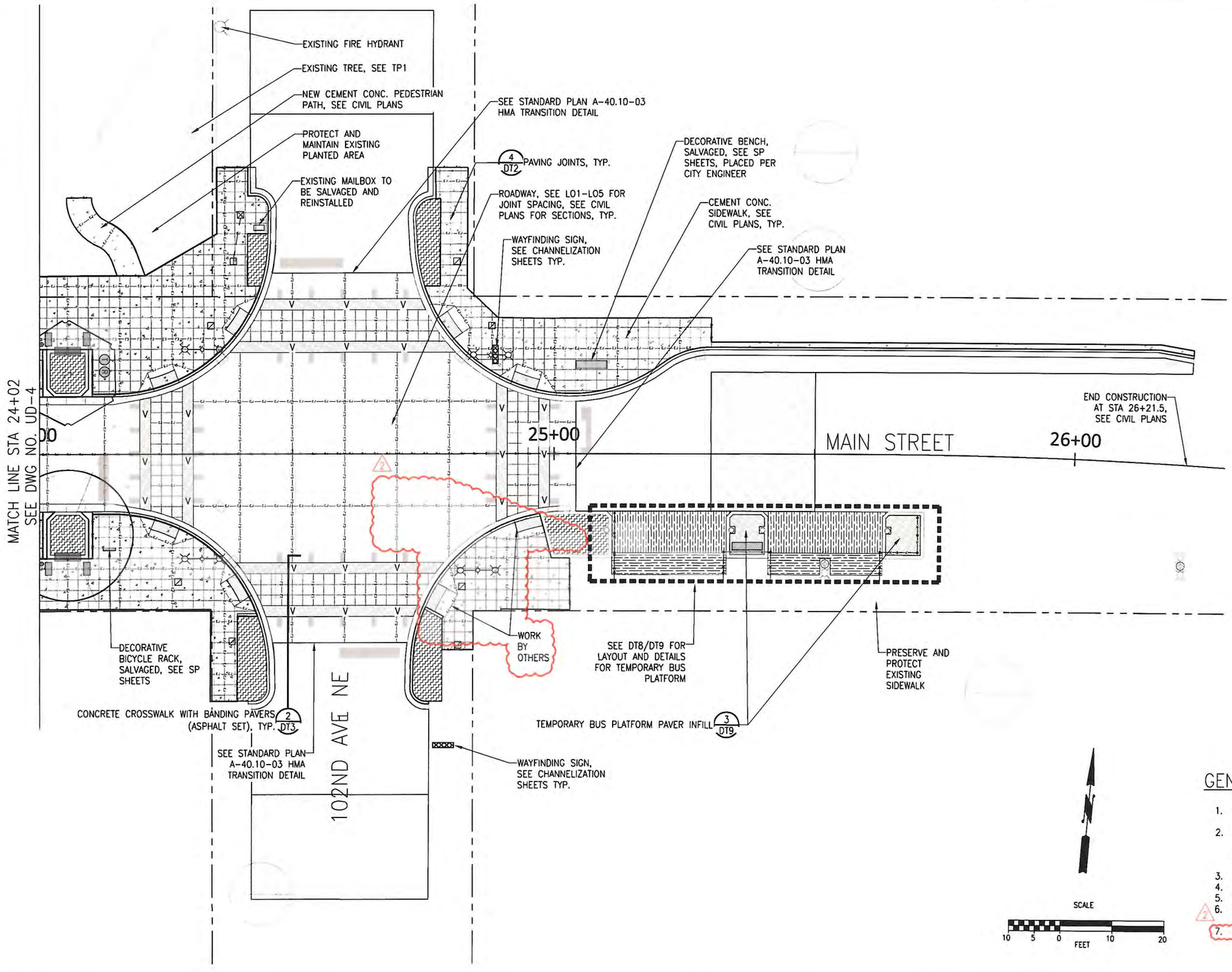

LEGEND

- CEMENT CONC. SIDEWALK SEE CIVIL PLANS, SEE 4/DT2 FOR JOINTING
- CONCRETE UNIT PAVERS ON BEDDING SAND, SEE DETAILS 1,3/DT3
- CONCRETE UNIT PAVERS ON BITUMINOUS SETTING BED, SEE 2/DT3
- PLANTED AREA
- CAST IRON DETECTABLE WARNING SURFACE
- REMOVABLE BOLLARD SOCKET
- REMOVABLE BOLLARD
- METAL SEAT TOP
- METAL BENCH
- BISTRO TABLE AND CHAIRS
- LUMINAIRES, SEE ILLUMINATION PLANS
- BICYCLE RACKS
- TRASH AND RECYCLING RECEPTACLES
- CONTAINER PLANTER
- EXISTING FIRE HYDRANT
- NEW FIRE HYDRANT
- WAYFINDING SIGN
- SAW-CUT CONTRACTION JOINT
- EXPANSION JOINT
- CONSTRUCTION JOINT
- TREE GRATE
- NEW STREET TREE

SCALE
10 5 0 10 20
FEET

GENERAL NOTES

1. BICYCLE RACK AT 24+15 RT TO BE SALVAGED AND REINSTALLED, SEE SP2.
2. SEE L01-L05 FOR ALL JOINT LAYOUT. ALL ROADWAY JOINTING TO BE DIMENSIONED FROM LAYOUT PLAN SHEETS, SEE CIVIL PLANS FOR ROADWAY SECTION, ROADWAY JOINTING DETAILS, AND ROADWAY TIE BAR DETAILS.
3. SEE L05 FOR TYPICAL SCORING DETAIL.
4. SEE CIVIL PLANS FOR LAYOUT OF ALL CURBS.
5. SEE ILLUMINATION PLANS FOR LAYOUT OF ALL LUMINAIRES.
6. CURB JOINTS AND GUTTER PAN JOINTS TO ALIGN WITH ROADWAY JOINTING WHERE POSSIBLE.
7. WORK ON SE CORNER OF 102ND TO BE DONE BY OTHERS.

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

CONFORMED PLANS

No.	Date	Revision	By	Appr.
2	3/2/17	"SEE CIVIL" CALL-OUT REMOVED, REPLACED WITH "WORK BY OTHERS" CALL-OUT	DB	ES

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City of Bothell

CASCADE DESIGN COLLABORATIVE

Drawn By	DB	Date 03/13/2017
Designed By	ES	03/13/2017
Checked By	ES	03/13/2017
Approved By		03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
URBAN DESIGN PLAN

Drawing No. UD4
Sheet No. 40 of Total 79

Mar 15, 2017 - 4:39pm dlvidb U:\Bothell Main Street\DWG\MAIN-UD.dwg Layout Name: UD-4

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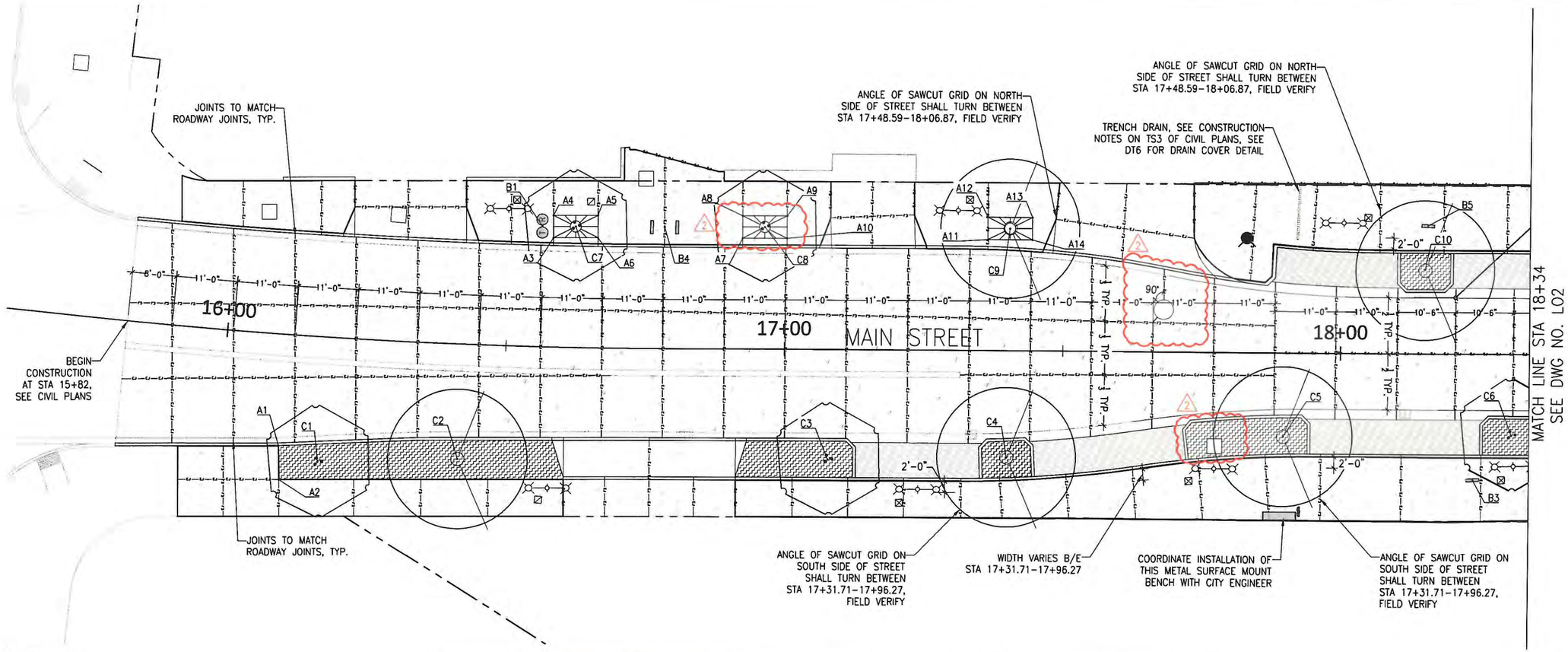

GENERAL NOTES

1. CEMENT CONC. SIDEWALK TO HAVE SAW CUT GRID PATTERN, SEE DETAIL 1/L05 FOR LAYOUT.
2. ALIGN GRID PATTERN PERPENDICULAR AND PARALLEL TO BACK OF CURB OR PLANTER.
3. AT RADII AND ANGLED SIDEWALK SEGMENTS, ESTABLISH GRID ANGLE BY CONNECTING THE ADJACENT 2' GRID.
4. LAST ROW OF SCORING AT BUILDING FACADE TO BE 3' MAX 1' MIN FROM FACE OF BUILDING.
5. CROSSWALK CONCRETE SHALL BE 2'X2' SAW CUT GRID PATTERN ALIGNED PERPENDICULAR TO CENTER LINE OF ROAD.
6. EXPANSION JOINT REQUIRED WHERE CEMENT CONC. SIDEWALK IS ADJACENT TO FACE OF BUILDING.
7. SEE CIVIL PLANS FOR LAYOUT OF ALL CURB.
8. SEE ILLUMINATION PLANS FOR LAYOUT OF ALL LUMINAIRES.
9. ALL ROADWAY JOINTING TO BE DIMENSIONED FROM LAYOUT PLAN SHEETS, SEE CIVIL PLANS FOR ROADWAY SECTION, ROADWAY JOINTING DETAILS, AND ROADWAY TIE BAR DETAILS.
10. CURB JOINTS AND GUTTER PAN JOINTS TO ALIGN WITH ROADWAY JOINTING WHERE POSSIBLE.
11. ALL JOINTS SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLANS A-40.00-00, A-40.15-00, A-40.10-03.
12. FOR ALL NOTES THAT REFER TO CIVIL PLANS, SEE BOTH GRADING AND PLAN PROFILE SHEETS.

LEGEND (SEE 4/DT2)

- SAW-CUT CONTRACTION JOINT (A)
- EXPANSION JOINT (B)
- CONSTRUCTION JOINT (C)

POINT TABLE PROJECT LIMITS TO STA 18+34 (TREE PITS/PLANTED AREAS)

POINT NO.	STATION	OFFSET		LOCATION
A1	16+10.55	19.9	RT	NW CORNER OF PLANTED AREA
A2	16+11.06	25.92	RT	SW CORNER OF PLANTED AREA
A3	16+57.90	19.54	LT	SW CORNER OF TREE GRATE
A4	16+57.80	23.54	LT	NW CORNER OF TREE GRATE
A5	16+65.99	23.69	LT	NE CORNER OF TREE GRATE
A6	16+66.06	19.7	LT	SE CORNER OF TREE GRATE
A7	16+92.39	19.81	LT	SW CORNER OF TREE GRATE
A8	16+92.39	23.81	LT	NW CORNER OF TREE GRATE
A9	17+00.36	23.81	LT	NE CORNER OF TREE GRATE
A10	17+00.36	19.81	LT	SE CORNER OF TREE GRATE
A11	17+36.33	19.81	LT	SW CORNER OF TREE GRATE
A12	17+36.33	23.81	LT	NW CORNER OF TREE GRATE
A13	17+44.33	23.81	LT	NE CORNER OF TREE GRATE
A14	17+44.33	19.81	LT	SE CORNER OF TREE GRATE

POINT TABLE PROJECT LIMITS TO STA 18+34 (SURFACE MOUNT FURNISHINGS)

POINT NO.	STATION	OFFSET		LOCATION
B1	16+05.82	21.57	LT	CENTER OF RECEPTACLES (PAIR)
B2	18+16.44	22.53	RT	CENTER OF RECEPTACLES (PAIR)
B3	18+23.94	22.51	RT	CENTER OF BICYCLE RACK
B4	16+78.29	21.81	LT	CENTER OF BIYCLE RACK (PAIR)
B5	18+15.49	22.85	LT	CENTER OF BICYCLE RACK

POINT TABLE PROJECT LIMITS TO STA 18+34 (TREES)

POINT NO.	STATION	OFFSET		LOCATION
C1	16+17.59	22.27	RT	CENTER OF TREE
C2	16+42.12	20.51	RT	CENTER OF TREE
C3	17+07.86	19.65	RT	CENTER OF TREE
C4	17+39.95	19.06	RT	CENTER OF TREE
C5	17+89.73	14.94	RT	CENTER OF TREE
C6	18+30.84	14.55	RT	CENTER OF TREE
C7	16+61.94	21.63	LT	CENTER OF TREE
C8	16+96.36	21.81	LT	CENTER OF TREE
C9	17+40.33	21.81	LT	CENTER OF TREE
C10	18+14.98	15.07	LT	CENTER OF TREE

SCALE
10 5 0 10 20
FEET

STATE OF WASHINGTON
REGISTERED LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

CONFORMED PLANS

No.	Date	Revision	By	Appr.
2	3/2/17	TREE AND TREE GRATE MOVED 2' EAST, RELOCATED VAULTS	DB	ES

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City of Bothell

CASCADE DESIGN COLLABORATIVE

Drawn By DB 03/13/2017
Designed By ES 03/13/2017
Checked By ES 03/13/2017
Approved By 03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
LAYOUT PLAN

Drawing No. L01
Sheet No. 41 of Total 79

Mar 15, 2017 - 4:40pm davidb I:\Bothell Main Street\DWG\MAIN-L0.dwg Layout Name: L0-1

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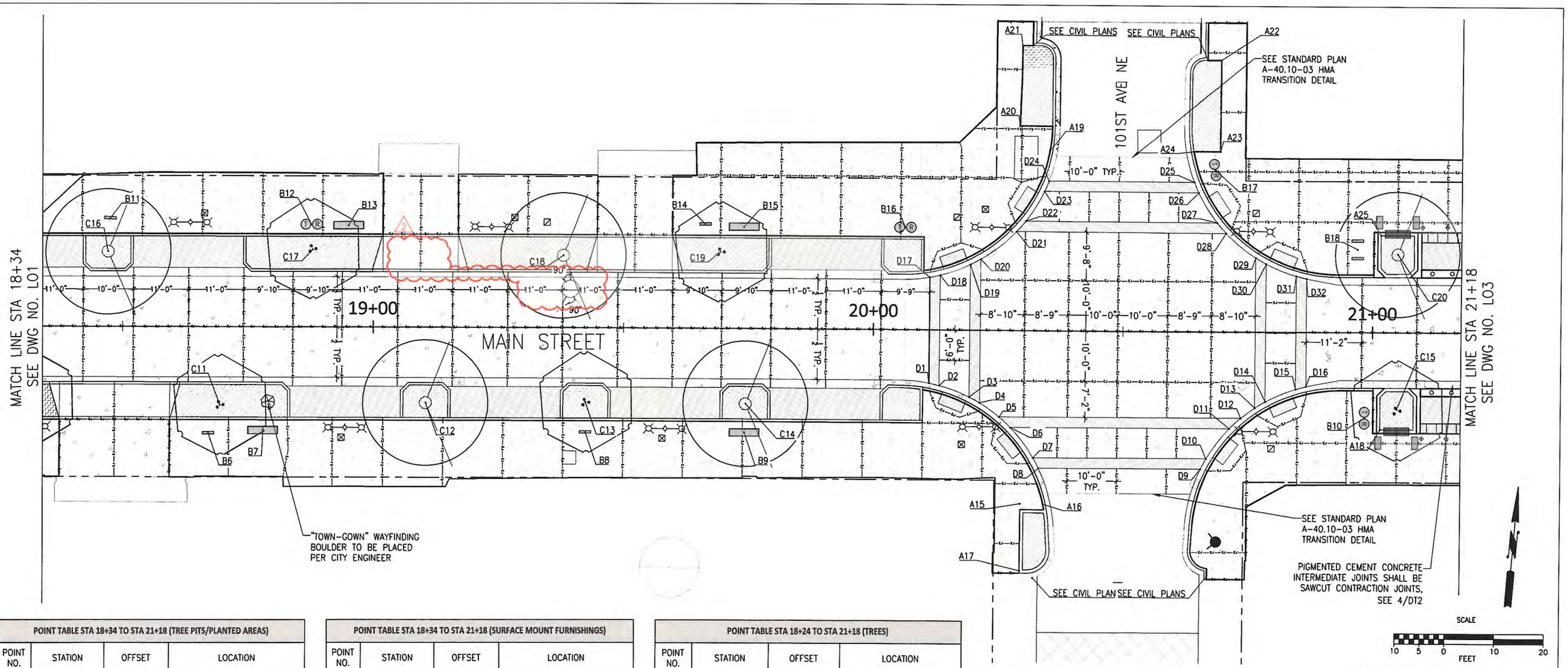

POINT TABLE STA 18+34 TO STA 21+18 (TREE PITS/PLANTED AREAS)

POINT NO.	STATION	OFFSET		LOCATION
A15	20+29.54	34.5	RT	NW CORNER OF PLANTED AREA
A16	20+34.12	34.5	RT	NE CORNER OF PLANTED AREA
A17	20+29.54	47.86	RT	SW CORNER OF PLANTED AREA
A18	21+1.61	19.33	RT	SW CORNER OF PLANTED AREA
A19	20+34.96	35.95	LT	SE CORNER OF PLANTED AREA
A20	20+28.91	40.96	LT	SW CORNER OF PLANTED AREA
A21	20+29.27	57.17	LT	NW CORNER OF PLANTED AREA
A22	20+69.28	54.44	LT	NE CORNER OF PLANTED AREA
A23	20+69.31	36	LT	SE CORNER OF PLANTED AREA
A24	20+63.94	36	LT	SW CORNER OF PLANTED AREA
A25	21+1.61	19.33	LT	NW CORNER OF PLANTED AREA

POINT TABLE STA 18+34 TO STA 21+18 (SURFACE MOUNT FURNISHINGS)

POINT NO.	STATION	OFFSET		LOCATION
B6	18+67.14	21.13	RT	CENTER OF BICYCLE RACK
B7	18+78.06	20.56	RT	CENTER OF BENCH
B8	19+42.47	20.75	RT	CENTER OF BICYCLE RACK
B9	19+74.32	20.67	RT	CENTER OF BENCH
B10	20+98.50	16.98	RT	CENTER OF RECEPTACLES (PAIR)
B11	18+47.46	21.57	LT	CENTER OF BICYCLE RACK
B12	18+87.63	20.39	LT	CENTER OF RECEPTACLES (PAIR)
B13	18+95.01	20.20	LT	CENTER OF BENCH
B14	19+66.25	20.72	LT	CENTER OF BICYCLE RACK
B15	19+74.01	20.22	LT	CENTER OF BENCH
B16	20+6.21	20.35	LT	CENTER OF RECEPTACLES (PAIR)
B17	20+68.21	32.32	LT	CENTER OF RECEPTACLES (PAIR)
B18	20+96.95	16.50	LT	CENTER OF BICYCLE RACK (PAIR)

POINT TABLE STA 18+24 TO STA 21+18 (TREES)

POINT NO.	STATION	OFFSET		LOCATION
C11	18+69.22	15.56	RT	CENTER OF TREE
C12	19+10.50	14.99	RT	CENTER OF TREE
C13	19+42.47	14.78	RT	CENTER OF TREE
C14	19+74.54	14.94	RT	CENTER OF TREE
C15	21+04.96	15.22	RT	CENTER OF TREE
C16	18+47.29	16.42	LT	CENTER OF TREE
C17	18+87.88	15.43	LT	CENTER OF TREE
C18	19+37.75	14.80	LT	CENTER OF TREE
C19	19+69.28	15.25	LT	CENTER OF TREE
C20	21+04.96	15.56	LT	CENTER OF TREE

GENERAL NOTES

1. CEMENT CONC. SIDEWALK TO HAVE SAW CUT GRID PATTERN, SEE DETAIL 1/L05 FOR LAYOUT.
2. ALIGN GRID PATTERN PERPENDICULAR AND PARALLEL TO BACK OF CURB OR PLANTER.
3. AT RADII AND ANGLED SIDEWALK SEGMENTS, ESTABLISH GRID ANGLE BY CONNECTING THE ADJACENT 2' GRID.
4. LAST ROW OF SCORING AT BUILDING FACADE TO BE 3' MAX 1' MIN FROM FACE OF BUILDING.
5. CROSSWALK CONCRETE SHALL BE 2'X2' SAW CUT GRID PATTERN ALIGNED PERPENDICULAR TO CENTER LINE OF ROAD.
6. EXPANSION JOINT REQUIRED WHERE CEMENT CONC. SIDEWALK IS ADJACENT TO FACE OF BUILDING.
7. SEE CIVIL PLANS FOR LAYOUT OF ALL CURB.
8. SEE ILLUMINATION PLANS FOR LAYOUT OF ALL LUMINAIRES.
9. ALL ROADWAY JOINTING TO BE DIMENSIONED FROM LAYOUT PLAN SHEETS, SEE CIVIL PLANS FOR ROADWAY SECTION, ROADWAY JOINTING DETAILS, AND ROADWAY TIE BAR DETAILS.
10. CURB JOINTS AND GUTTER PAN JOINTS TO ALIGN WITH ROADWAY JOINTING WHERE POSSIBLE.
11. ALL JOINTS SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLANS A-40.00-00, A-40.15-00, A-40.10-03.
12. FOR ALL NOTES THAT REFER TO CIVIL PLANS, SEE BOTH GRADING AND PLAN PROFILE SHEETS.

LEGEND (SEE 4/DT2)

- SAW-CUT CONTRACTION JOINT (A)
- EXPANSION JOINT (B)
- CONSTRUCTION JOINT (C)

STATE OF WASHINGTON
REGISTERED LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

CONFORMED PLANS

No.	Date	Revision	By	Appr.
3	3/2/17	VAULT MOVED EAST	DB	ES

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5610

City of Bothell

CASCADE DESIGN COLLABORATIVE

Drawn By	DB	Date 03/13/2017
Designed By	ES	03/13/2017
Checked By	ES	03/13/2017
Approved By		03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
LAYOUT PLAN

Drawing No. L02
Sheet No. 42 / 79 of Total

Mar 15, 2017 - 4:41pm davidb U:\Bothell Main Street\DWG\MAIN-LO.dwg Layout Name: LO-2

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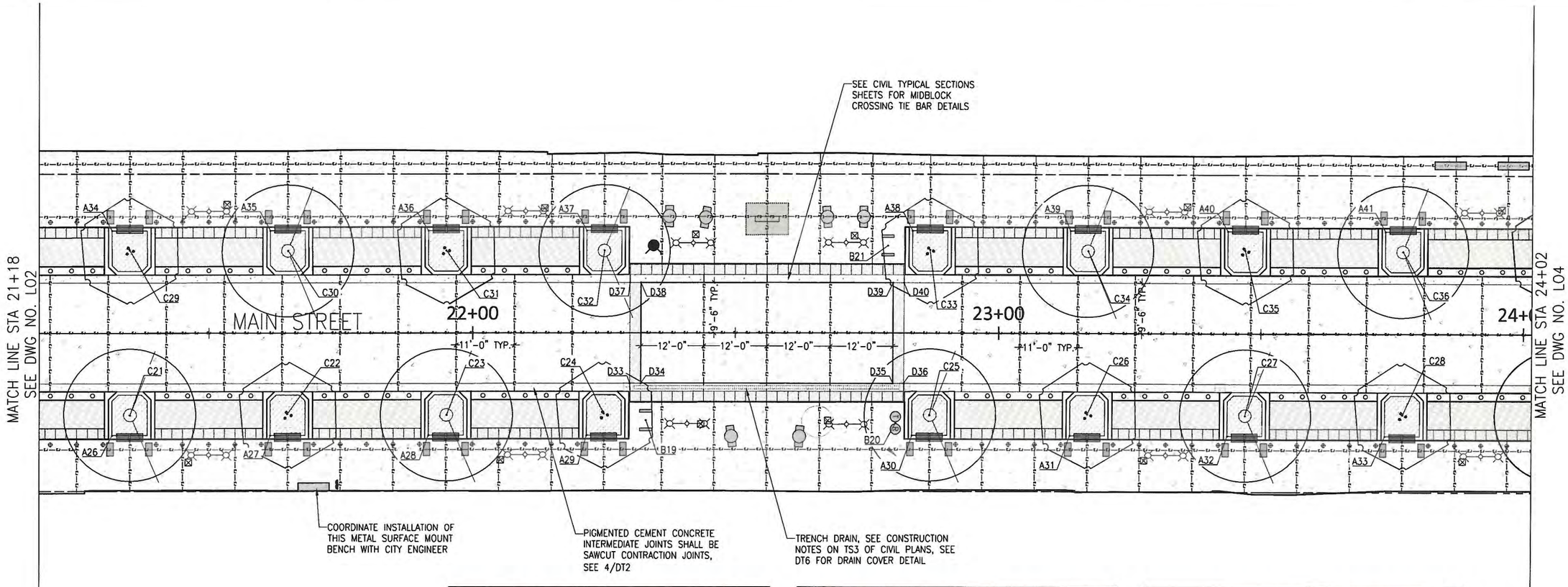

GENERAL NOTES

1. CEMENT CONC. SIDEWALK TO HAVE SAW CUT GRID PATTERN, SEE DETAIL 1/L05 FOR LAYOUT.
2. ALIGN GRID PATTERN PERPENDICULAR AND PARALLEL TO BACK OF CURB OR PLANTER.
3. AT RADII AND ANGLED SIDEWALK SEGMENTS, ESTABLISH GRID ANGLE BY CONNECTING THE ADJACENT 2' GRID.
4. LAST ROW OF SCORING AT BUILDING FACADE TO BE 3' MAX 1' MIN FROM FACE OF BUILDING.
5. CROSSWALK CONCRETE SHALL BE 2'X2' SAW CUT GRID PATTERN ALIGNED PERPENDICULAR TO CENTER LINE OF ROAD.
6. EXPANSION JOINT REQUIRED WHERE CEMENT CONC. SIDEWALK IS ADJACENT TO FACE OF BUILDING.
7. SEE CIVIL PLANS FOR LAYOUT OF ALL CURB.
8. SEE ILLUMINATION PLANS FOR LAYOUT OF ALL LUMINAIRES.
9. ALL ROADWAY JOINTING TO BE DIMENSIONED FROM LAYOUT PLAN SHEETS, SEE CIVIL PLANS FOR ROADWAY SECTION, ROADWAY JOINTING DETAILS, AND ROADWAY TIE BAR DETAILS.
10. CURB JOINTS AND GUTTER PAN JOINTS TO ALIGN WITH ROADWAY JOINTING WHERE POSSIBLE.
11. ALL JOINTS SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLANS A-40.00-00, A-40.15-00, A-40.10-03.
12. FOR ALL NOTES THAT REFER TO CIVIL PLANS, SEE BOTH GRADING AND PLAN PROFILE SHEETS.

LEGEND (SEE 4/DT2)

———— SAW-CUT CONTRACTION JOINT (A)

—u—u—u— EXPANSION JOINT (B)

—u—u—u— CONSTRUCTION JOINT (C)

POINT TABLE STA 21+18 TO STA 24+02 (TREE PITS/PLANTED AREAS)

POINT NO.	STATION	OFFSET		LOCATION
A26	21+31.62	19.33	RT	SW CORNER OF PLANTED AREA
A27	21+61.62	19.33	RT	SW CORNER OF PLANTED AREA
A28	21+91.62	19.33	RT	SW CORNER OF PLANTED AREA
A29	22+21.62	19.33	RT	SW CORNER OF PLANTED AREA
A30	22+83.62	19.33	RT	SW CORNER OF PLANTED AREA
A31	23+13.62	19.33	RT	SW CORNER OF PLANTED AREA
A32	23+43.62	19.33	RT	SW CORNER OF PLANTED AREA
A33	23+73.62	19.33	RT	SW CORNER OF PLANTED AREA
A34	21+31.62	19.33	LT	NW CORNER OF PLANTED AREA
A35	21+61.62	19.33	LT	NW CORNER OF PLANTED AREA
A36	21+91.62	19.33	LT	NW CORNER OF PLANTED AREA
A37	22+21.62	19.33	LT	NW CORNER OF PLANTED AREA
A38	22+83.62	19.33	LT	NW CORNER OF PLANTED AREA
A39	23+13.62	19.33	LT	NW CORNER OF PLANTED AREA
A40	23+43.62	19.33	LT	NW CORNER OF PLANTED AREA
A41	23+73.62	19.33	LT	NW CORNER OF PLANTED AREA

POINT TABLE STA 21+18 TO STA 24+02 (SURFACE MOUNT FURNISHINGS)

POINT NO.	STATION	OFFSET		LOCATION
B19	22+32.95	16.51	RT	CENTER OF BICYCLE RACK (PAIR)
B20	22+80.50	16.98	RT	CENTER OF RECEPTACLES (PAIR)
B21	22+78.95	16.51	LT	CENTER OF BICYCLE RACK (PAIR)

POINT TABLE STA 21+18 TO STA 24+02 (TREES)

POINT NO.	STATION	OFFSET		LOCATION
C21	21+34.98	15.50	RT	CENTER OF TREE
C22	21+64.89	15.50	RT	CENTER OF TREE
C23	21+95.06	15.50	RT	CENTER OF TREE
C24	22+24.94	15.50	RT	CENTER OF TREE
C25	22+86.94	15.50	RT	CENTER OF TREE
C26	23+19.93	15.50	RT	CENTER OF TREE
C27	23+47.00	15.50	RT	CENTER OF TREE
C28	23+77.00	15.50	RT	CENTER OF TREE
C29	21+34.98	15.50	LT	CENTER OF TREE
C30	21+64.89	15.50	LT	CENTER OF TREE
C31	21+95.06	15.50	LT	CENTER OF TREE
C32	22+24.94	15.50	LT	CENTER OF TREE
C33	22+86.94	15.50	LT	CENTER OF TREE
C34	23+19.93	15.50	LT	CENTER OF TREE
C35	23+47.00	15.50	LT	CENTER OF TREE
C36	23+77.00	15.50	LT	CENTER OF TREE

SCALE
10 5 0 10 20
FEET

3/13/17
STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

CONFORMED PLANS

No.	Date	Revision	By	Appr.

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130 Fifth Avenue, Suite 1200
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(206) 257-5000 FAX: (206) 257-5001

City of Bothell

CASCADE DESIGN COLLABORATIVE

Drawn By DB	Date 03/13/2017	
Designed By ES	03/13/2017	
Checked By ES	03/13/2017	
Approved By	03/13/2017	

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
LAYOUT PLAN

Drawing No. L03
Sheet No. 43 of Total 79

Mar 15, 2017 - 4:42pm davidb U:\Bothell Main Street\DWG\MAIN-LO.dwg Layout Name: LO-3

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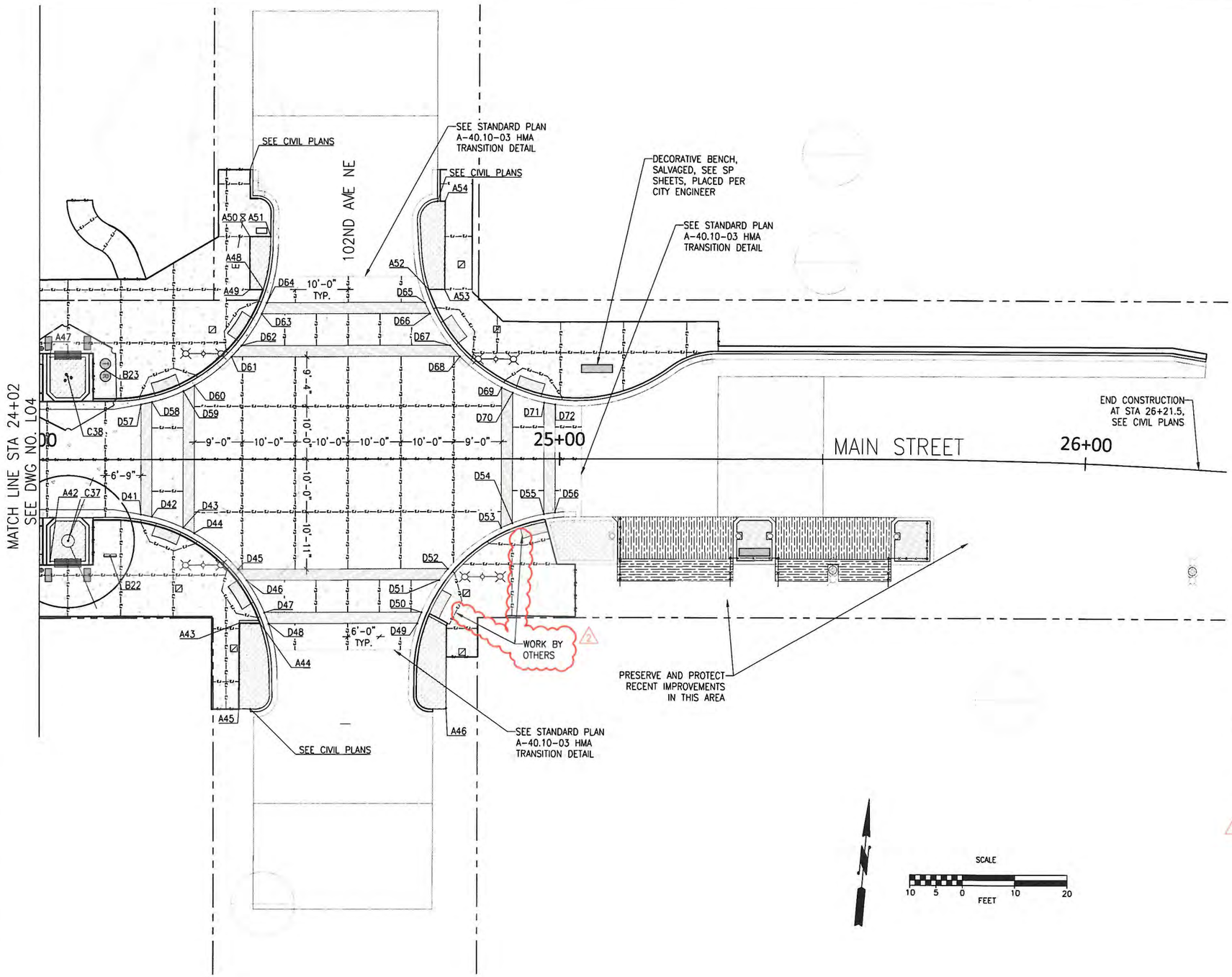

SCALE
10 5 0 10 20
FEET

POINT TABLE STA 24+02 TO PROJECT LIMITS (TREE PITS/PLANTED AREAS)

POINT NO.	STATION	OFFSET		LOCATION
A42	24+03.62	19.33	RT	SW CORNER OF PLANTED AREA
A43	24+39.45	30.97	RT	NW CORNER OF PLANTED AREA
A44	24+43.33	30.97	RT	NE CORNER OF PLANTED AREA
A45	24+39.39	47.19	RT	SW CORNER OF PLANTED AREA
A46	24+78.66	47.04	RT	SE CORNER OF PLANTED AREA
A47	24+03.62	19.33	LT	NW CORNER OF PLANTED AREA
A48	24+43.86	32	LT	SE CORNER OF PLANTED AREA
A49	24+41.37	32	LT	SW CORNER OF PLANTED AREA
A50	24+41.36	42	LT	NW CORNER OF PLANTED AREA
A51	24+45.28	42	LT	NE CORNER OF PLANTED AREA
A52	24+75.20	31.97	LT	SW CORNER OF PLANTED AREA
A53	24+78.19	31.97	LT	SE CORNER OF PLANTED AREA
A54	24+78.18	48.64	LT	NE CORNER OF PLANTED AREA

POINT TABLE STA 24+02 TO PROJECT LIMITS (SURFACE MOUNT FURNISHINGS)

POINT NO.	STATION	OFFSET		LOCATION
B22	24+14.94	18.25	RT	CENTER OF SALVAGED BICYCLE RACK
B23	24+14.06	16.88	LT	CENTER OF RECEPTACLES (PAIR)

POINT TABLE STA 24+02 TO PROJECT LIMITS (TREES)

POINT NO.	STATION	OFFSET		LOCATION
C37	24+06.90	15.50	RT	CENTER OF TREE
C38	24+06.90	15.50	LT	CENTER OF TREE

GENERAL NOTES

1. CEMENT CONC. SIDEWALK TO HAVE SAW CUT GRID PATTERN, SEE DETAIL 1/L05 FOR LAYOUT.
2. ALIGN GRID PATTERN PERPENDICULAR AND PARALLEL TO BACK OF CURB OR PLANTER.
3. AT RADII AND ANGLED SIDEWALK SEGMENTS, ESTABLISH GRID ANGLE BY CONNECTING THE ADJACENT 2' GRID.
4. LAST ROW OF SCORING AT BUILDING FACADE TO BE 3' MAX 1' MIN FROM FACE OF BUILDING.
5. CROSSWALK CONCRETE SHALL BE 2'X2' SAW CUT GRID PATTERN ALIGNED PERPENDICULAR TO CENTER LINE OF ROAD.
6. EXPANSION JOINT REQUIRED WHERE CEMENT CONC. SIDEWALK IS ADJACENT TO FACE OF BUILDING.
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8. SEE ILLUMINATION PLANS FOR LAYOUT OF ALL LUMINAIRES.
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10. CURB JOINTS AND GUTTER PAN JOINTS TO ALIGN WITH ROADWAY JOINTING WHERE POSSIBLE.
11. ALL JOINTS SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLANS A-40.00-00, A-40.15-00, A-40.10-03.
12. FOR ALL NOTES THAT REFER TO CIVIL PLANS, SEE BOTH GRADING AND PLAN PROFILE SHEETS.
13. WORK ON SE CORNER OF 102ND TO BE DONE BY OTHERS.

LEGEND (SEE 4/DT2)

- SAW-CUT CONTRACTION JOINT (A)
- EXPANSION JOINT (B)
- CONSTRUCTION JOINT (C)

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

CONFORMED PLANS

No.	Date	Revision	By	Appr.
2	2/2/17	"SEE CIVIL" CALL-OUT REMOVED; REPLACED WITH "WORK BY OTHERS" CALL-OUT	DB	ES

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(206) 357-5600 FAX: (206) 357-5601

City of Bothell

CASCADE DESIGN COLLABORATIVE

Drawn By	DB	Date 03/13/2017
Designed By	ES	03/13/2017
Checked By	ES	03/13/2017
Approved By		03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
LAYOUT PLAN

Drawing No. L04
Sheet No. 44 of 79 Total

Mar 15, 2017 - 4:42pm davidb U:\Bothell Main Street\DWG\MAIN-L0.dwg Layout Name: L0-4

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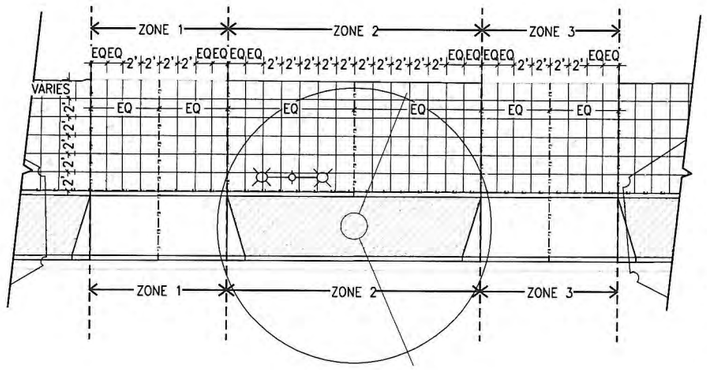
POINT TABLE STA 18+34 TO STA 21+18 (PAVERS @ CROSSWALKS)				
POINT NO.	STATION	OFFSET		LOCATION
D1	20+11.21	10.56	RT	PAVER POINT
D2	20+13.29	11.02	RT	PAVER POINT
D3	20+19.29	13.28	RT	PAVER POINT
D4	20+21.37	14.43	RT	PAVER POINT
D5	20+25.29	17.22	RT	PAVER POINT
D6	20+27.55	19.30	RT	PAVER POINT
D7	20+32.13	25.27	RT	PAVER POINT
D8	20+33.24	27.35	RT	PAVER POINT
D9	20+65.71	27.30	RT	PAVER POINT
D10	20+66.84	25.22	RT	PAVER POINT
D11	20+71.46	19.22	RT	PAVER POINT
D12	20+73.74	17.13	RT	PAVER POINT
D13	20+76.53	15.08	RT	PAVER POINT
D14	20+78.61	13.82	RT	PAVER POINT
D15	20+84.60	11.31	RT	PAVER POINT
D16	20+86.68	10.75	RT	PAVER POINT
D17	20+11.21	10.46	LT	PAVER POINT
D18	20+13.29	10.90	LT	PAVER POINT
D19	20+19.30	13.05	LT	PAVER POINT
D20	20+21.37	14.14	LT	PAVER POINT
D21	20+28.41	19.69	LT	PAVER POINT
D22	20+30.21	21.78	LT	PAVER POINT
D23	20+33.93	27.78	LT	PAVER POINT
D24	20+34.82	29.86	LT	PAVER POINT
D25	20+64.11	29.81	LT	PAVER POINT
D26	20+65.00	27.72	LT	PAVER POINT
D27	20+68.75	21.71	LT	PAVER POINT
D28	20+70.57	19.62	LT	PAVER POINT
D29	20+76.53	14.75	LT	PAVER POINT
D30	20+78.61	13.55	LT	PAVER POINT
D31	20+84.60	11.16	LT	PAVER POINT
D32	20+86.68	10.65	LT	PAVER POINT

POINT TABLE STA 21+18 TO STA 24+02 (PAVERS @ CROSSWALKS)				
POINT NO.	STATION	OFFSET		LOCATION
D33	22+29.86	9.50	RT	PAVER POINT
D34	22+31.94	9.50	RT	PAVER POINT
D35	22+79.94	9.50	RT	PAVER POINT
D36	22+82.02	9.50	RT	PAVER POINT
D37	22+29.86	9.50	LT	PAVER POINT
D38	22+31.94	9.50	LT	PAVER POINT
D39	22+79.94	9.50	LT	PAVER POINT
D40	22+82.02	9.50	LT	PAVER POINT

POINT TABLE STA 24+02 TO PROJECT LIMITS (PAVERS @ CROSSWALKS)				
POINT NO.	STATION	OFFSET		LOCATION
D41	24+20.78	10.44	RT	PAVER POINT
D42	24+22.86	10.87	RT	PAVER POINT
D43	24+28.87	12.99	RT	PAVER POINT
D44	24+30.95	14.08	RT	PAVER POINT
D45	24+39.19	20.90	RT	PAVER POINT
D46	24+40.81	22.99	RT	PAVER POINT
D47	24+44.16	28.99	RT	PAVER POINT
D48	24+44.95	31.07	RT	PAVER POINT
D49	24+73.19	31.06	RT	PAVER POINT
D50	24+73.98	28.99	RT	PAVER POINT
D51	24+77.32	22.98	RT	PAVER POINT
D52	24+78.95	20.09	RT	PAVER POINT
D53	24+89.00	13.11	RT	PAVER POINT
D54	24+91.08	12.19	RT	PAVER POINT
D55	24+97.07	10.48	RT	PAVER POINT
D56	24+99.15	10.16	RT	PAVER POINT
D57	24+20.78	10.41	LT	PAVER POINT
D58	24+22.86	10.83	LT	PAVER POINT
D59	24+28.87	12.91	LT	PAVER POINT
D60	24+30.95	13.98	LT	PAVER POINT
D61	24+37.93	19.33	LT	PAVER POINT
D62	24+39.79	21.41	LT	PAVER POINT
D63	24+43.62	27.41	LT	PAVER POINT
D64	24+44.55	29.49	LT	PAVER POINT
D65	24+74.50	29.49	LT	PAVER POINT
D66	24+75.42	27.41	LT	PAVER POINT
D67	24+79.26	21.41	LT	PAVER POINT
D68	24+81.11	19.33	LT	PAVER POINT
D69	24+89.00	13.49	LT	PAVER POINT
D70	24+91.08	12.51	LT	PAVER POINT
D71	24+97.07	10.63	LT	PAVER POINT
D72	24+99.15	10.29	LT	PAVER POINT



1 TYPICAL SCORING
SCALE: 1/8" = 1'-0"

NOTES:

A. CONTRACTOR TO PROVIDE DETAILED JOINT LAYOUT PLAN PRIOR TO CONSTRUCTION.
B. SEE 5/DT2 FOR PAVING JOINT DETAIL.
C. REFER TO CIVIL PLANS FOR DRIVEWAY JOINTING AND LAYOUT.
D. EXPANSION JOINT AT CENTER OF EACH ZONE, CONTINUOUS 2' GRID PATTERN WITHIN EACH ZONE EXCEPT TWO OUTERMOST RECTANGLES OF EACH ZONE TO BE EQUAL IN SIZE.
E. MINIMUM SPACING BETWEEN EXPANSION JOINTS SHALL BE 8'.
F. MAXIMUM SPACING BETWEEN EXPANSION JOINTS SHALL BE 16'.

LEGEND

SAWCUT CONTRACTION JOINT ————

EXPANSION JOINT AT CONCRETE SIDEWALK — — — —

GENERAL NOTES

1. CEMENT CONC. SIDEWALK TO HAVE SAW CUT GRID PATTERN, SEE DETAIL 1/LO5 FOR LAYOUT.
2. ALIGN GRID PATTERN PERPENDICULAR AND PARALLEL TO BACK OF CURB OR PLANTER.
3. AT RADII AND ANGLED SIDEWALK SEGMENTS, ESTABLISH GRID ANGLE BY CONNECTING THE ADJACENT 2' GRID.
4. LAST ROW OF SCORING AT BUILDING FACADE TO BE 3' MAX 1' MIN FROM FACE OF BUILDING.
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8. SEE ILLUMINATION PLANS FOR LAYOUT OF ALL LUMINAIRES.
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12. FOR ALL NOTES THAT REFER TO CIVIL PLANS, SEE BOTH GRADING AND PLAN PROFILE SHEETS.

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

CONFORMED PLANS

No.	Date	Revision	By	Appr.

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City of Bothell

CASCADE DESIGN COLLABORATIVE

Drawn By DB	Date 03/13/2017
Designed By ES	03/13/2017
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Approved By	03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
LAYOUT POINT TABLES

Drawing No. LO5
Sheet No. 45 / 79 of Total

Mar 15, 2017 - 4:42pm davidb U:\Bothell Main Street\DWG\MAIN-LO.dwg Layout Name: LO-5

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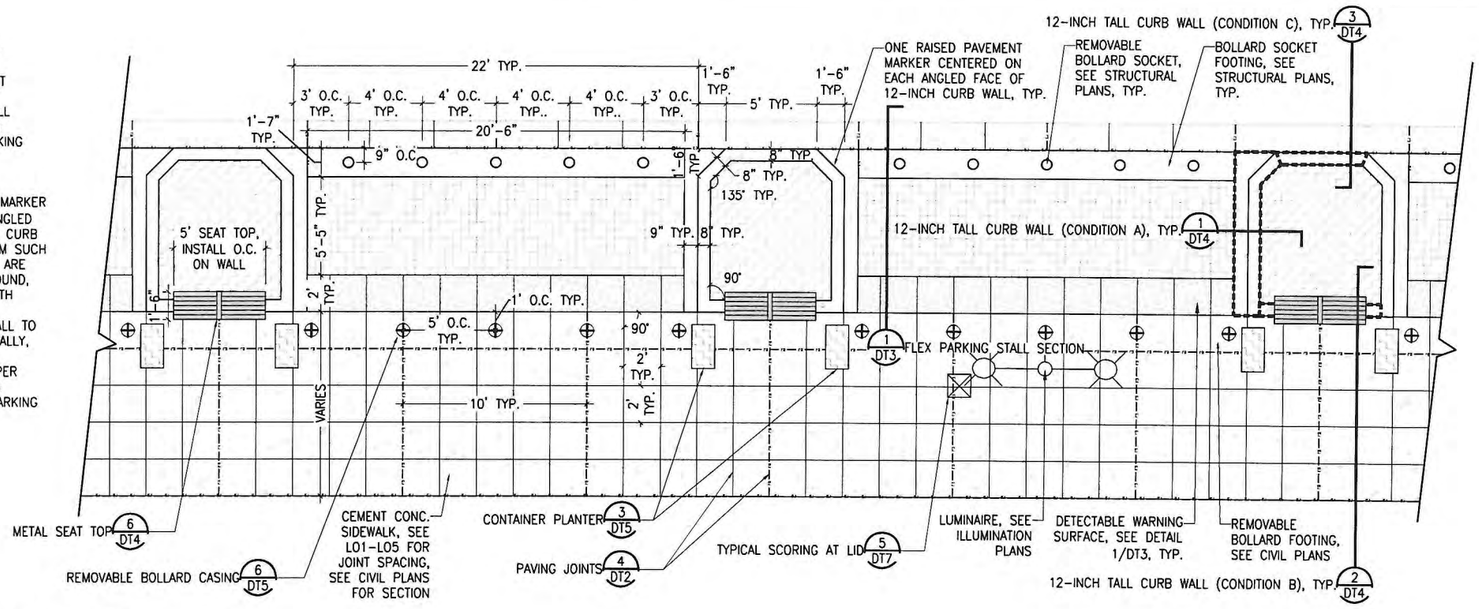
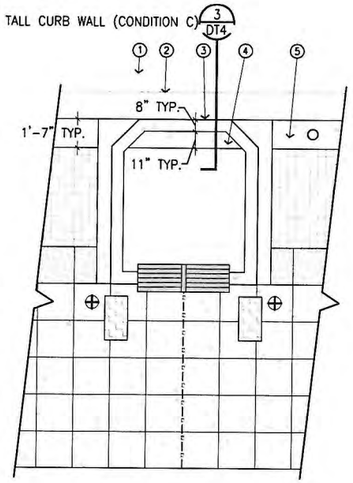
NOTES:

A. PAVING PATTERN TO BE ASHLAR PATTERN.
B. LAY OUT CONCRETE UNIT PAVERS BEGINNING AT ROADWAY SIDE WITH FULL PAVER, CUT PAVERS ON SIDEWALK SIDE OF PARKING STALL AS REQUIRED.
C. ALL BOLLARDS TO BE REMOVABLE.
D. ONE RAISED PAVEMENT MARKER (RPM) CENTERED ON ANGLED FACE OF 12-INCH TALL CURB WALL, TYP., INSTALL RPM SUCH THAT REFLECTIVE SIDES ARE PERPENDICULAR TO GROUND, CONFIRM PLACEMENT WITH ENGINEER.
E. 12-INCH TALL CURB WALL TO BE POURED MONOLITHICALLY, SEE DT4 DETAILS.
F. 10 BOLLARD SOCKETS PER EACH PARKING STALL, 5 BOLLARDS PER EACH PARKING STALL.



1 TYPICAL FLEX PARKING STALL LAYOUT
SCALE: 1/4" = 1'-0"

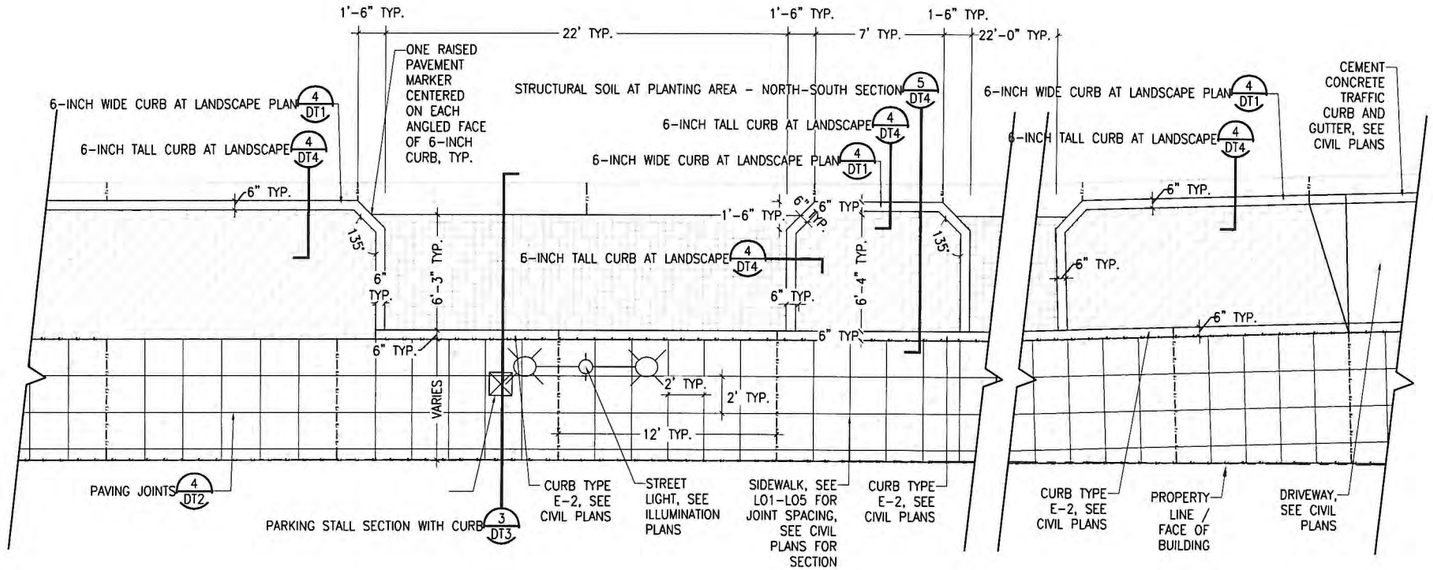
1. VEHICLE TRAVEL LANE.
2. GUTTER, SEE CIVIL PLANS.
3. FACE OF 12-INCH TALL CURB WALL, SEE DETAIL 3 DT4.
4. CONCRETE FOOTING, SEE DETAIL 3 DT4.
5. BOLLARD FOOTING, SEE STRUCTURAL PLANS.



2 12-INCH TALL CURB WALL (CONDITION C PLAN)
SCALE: 1/4" = 1'-0"

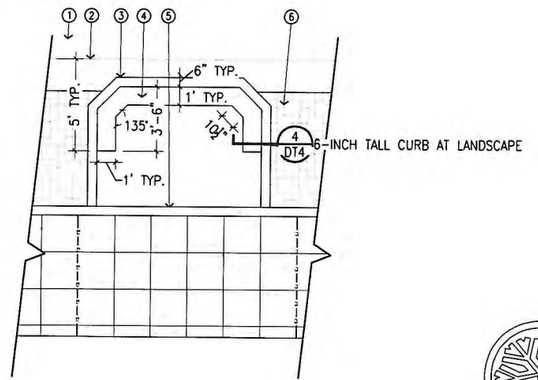
NOTES:

A. SEE LO SHEETS FOR TYPICAL JOINT LAYOUT.
B. 6-INCH TALL CURB @ LANDSCAPE SHALL BE MONOLITHICALLY POURED, 6" WIDE AND DOWELED TO SIDEWALK CURB WHERE IT CONTACTS, TYP.
C. SEE L01-L05 FOR LAYOUT OF ALL STREET FURNITURE.
D. PAVING PATTERN TO BE ASHLAR PATTERN.
B. LAY OUT CONCRETE UNIT PAVERS BEGINNING AT ROADWAY SIDE WITH FULL PAVER, CUT PAVERS ON SIDEWALK SIDE OF PARKING STALL AS REQUIRED.
C. GUTTER TO HAVE INTEGRAL COLOR, SEE CIVIL PLANS.
D. ONE RAISED PAVEMENT MARKER (RPM) CENTERED ON ANGLED FACE OF 12-INCH CURB WALL, TYP., INSTALL RPM SUCH THAT REFLECTIVE SIDES ARE PERPENDICULAR TO GROUND, CONFIRM PLACEMENT WITH ENGINEER.



3 NON-FLEX PARKING STALL LAYOUT
SCALE: 1/4" = 1'-0"

1. VEHICLE TRAVEL LANE.
2. GUTTER, SEE CIVIL PLANS.
3. FACE OF 6-INCH TALL CURB @ LANDSCAPE, SEE DETAIL 4 DT4.
4. CONCRETE FOOTING, SEE DETAIL 4 DT4.
5. 6" CURB, SEE CIVIL PLANS.
6. PARKING STALL.



4 6-INCH WIDE CURB AT LANDSCAPE PLAN
SCALE: 1/4" = 1'-0"

3/13/17
STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT CERTIFICATE NO. 273

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
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City of Bothell

CASCADE DESIGN COLLABORATIVE

Drawn By	DB	Date 03/13/2017
Designed By	ES	03/13/2017
Checked By	ES	03/13/2017
Approved By		03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
DETAILS

Drawing No. DT1
Sheet No. 46 of Total 79

Mar 15, 2017 - 4:43pm dsvkb U:\Bothell Main Street\DWG\MAIN-DT.dwg Layout Name: DT-1

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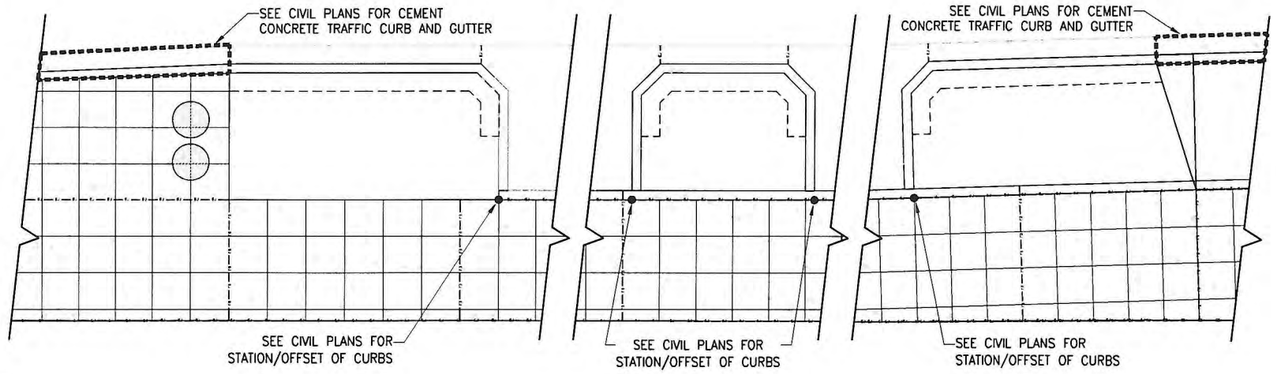
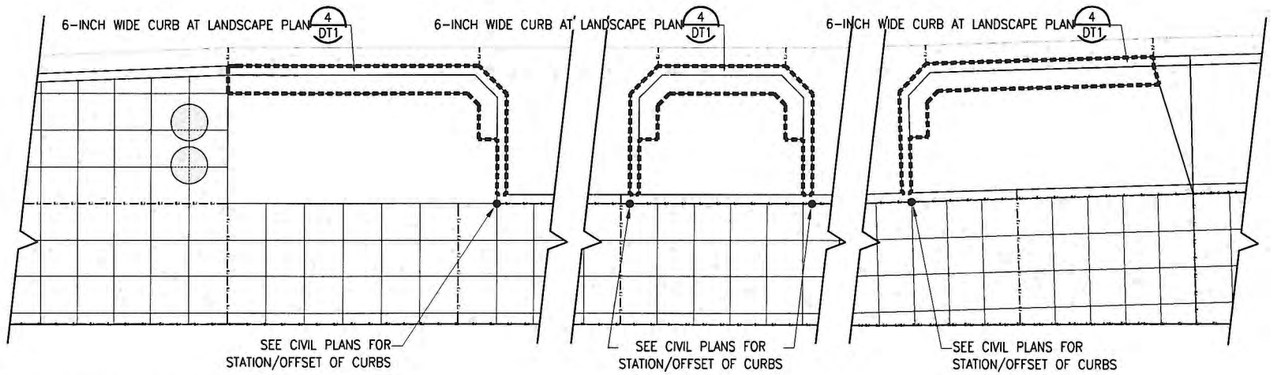


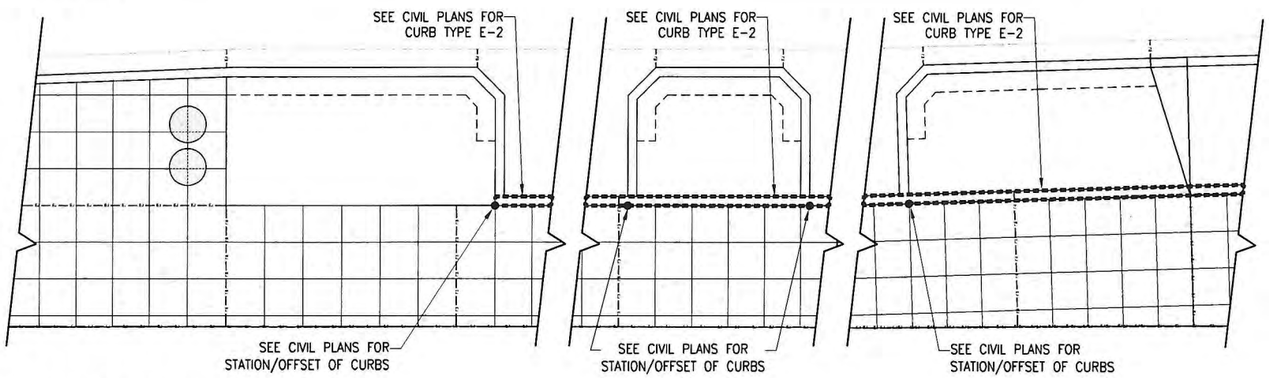
1 CEMENT CONCRETE TRAFFIC CURB AND GUTTER
SCALE: 1/4" = 1'-0"

NOTES:
A. EXPANSION JOINT AT ALL LOCATIONS WHERE CEMENT CONCRETE TRAFFIC CURB AND GUTTER IS ADJACENT TO 6-INCH TALL CURB @ LANDSCAPE OR CURB TYPE E-2.
B. SEE UD1-UD4 FOR LOCATIONS OF EACH TYPE OF CURB.
C. REFER TO DETAIL 3/DT1 FOR ALL DIMENSIONING OF PARKING STALL ELEMENTS.
D. REFER TO DT4 FOR CURB DETAILS.

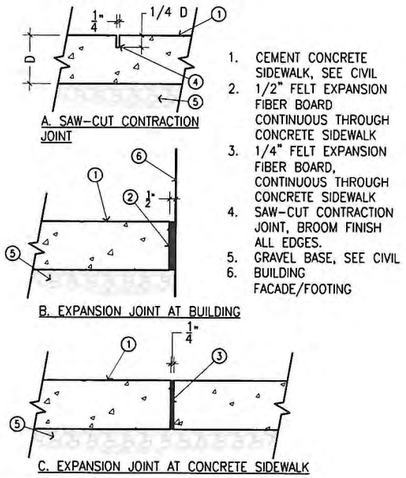


2 6-INCH TALL CURB AT LANDSCAPE
SCALE: 1/4" = 1'-0"

NOTES:
A. EXPANSION JOINT AT ALL LOCATIONS WHERE 6-INCH TALL CURB @ LANDSCAPE IS ADJACENT TO CEMENT CONCRETE TRAFFIC CURB AND GUTTER OR CURB TYPE E-2.
B. SEE UD1-UD4 FOR LOCATIONS OF EACH TYPE OF CURB.
C. REFER TO DETAIL 3/DT1 FOR ALL DIMENSIONING OF PARKING STALL ELEMENTS.
D. REFER TO DT4 FOR CURB DETAILS.



3 CURB TYPE E-2
SCALE: 1/4" = 1'-0"



1. CEMENT CONCRETE SIDEWALK, SEE CIVIL
2. 1/2" FELT EXPANSION FIBER BOARD CONTINUOUS THROUGH CONCRETE SIDEWALK
3. 1/4" FELT EXPANSION FIBER BOARD, CONTINUOUS THROUGH CONCRETE SIDEWALK
4. SAW-CUT CONTRACTION JOINT, BROOM FINISH ALL EDGES.
5. GRAVEL BASE, SEE CIVIL
6. BUILDING FACADE/FOOTING

4 PAVING JOINTS
SCALE: 2" = 1'-0"

STATE OF WASHINGTON
REGISTERED LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

3/13/17

CONFORMED PLANS

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ABAM
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City of Bothell

CASCADE DESIGN COLLABORATIVE

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SCALE
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Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
DETAILS

Drawing No. DT2
Sheet No. 47 / 79 of Total

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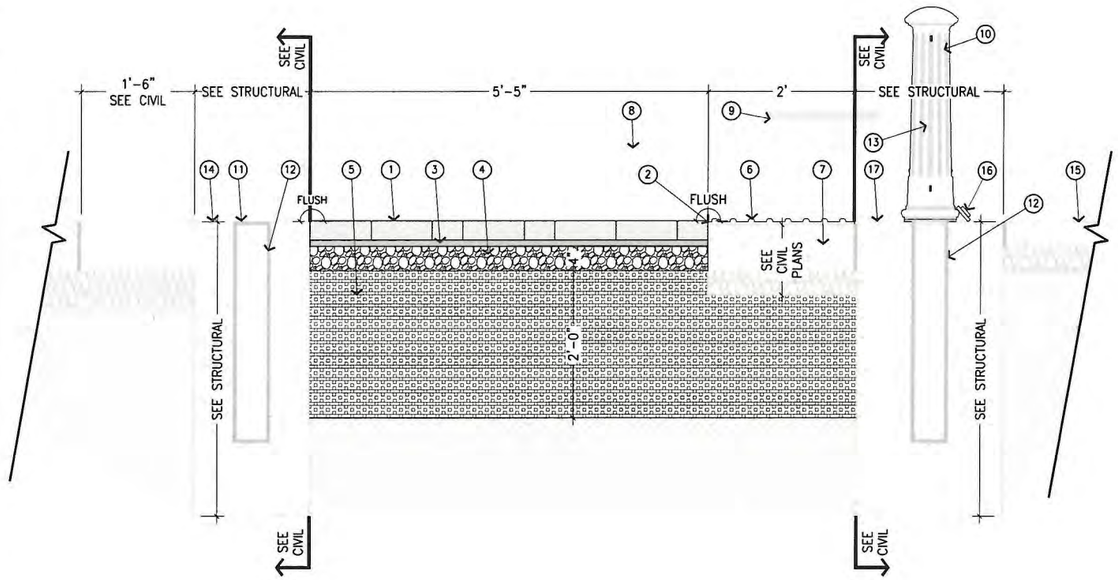
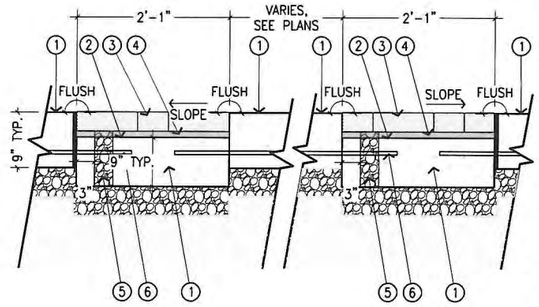


1 FLEX PARKING STALL SECTION
SCALE: 1" = 1'-0"

1. CONCRETE UNIT PAVERS IN ASHLAR PATTERN WITH POLYMERIC SAND JOINTS.
2. CUT PAVERS AT THIS EDGE AS REQUIRED, NO SMALLER THAN $\frac{1}{3}$ OF A FULL PAVER.
3. 1" DEPTH BEDDING SAND.
4. 4" CRUSHED SURFACING TOP COURSE PER WSDOT 9-03.9(3) COMPACTED 95%.
5. 24" DEPTH STRUCTURAL SOIL.
6. CAST IRON DETECTABLE WARNING SURFACE, EMBED INTO CONCRETE PER MANUFACTURERS RECOMMENDATION.
7. CONCRETE, SEE CIVIL PLANS.
8. 12-INCH CURB WALL WALL (BEYOND) SEE DETAIL 6/DT4.
9. METAL SEAT TOP.
10. REMOVABLE BOLLARD CASING, SEE DETAIL 6/DT5.
11. SOCKET CAP TO BE USED WHEN BOLLARD IS NOT INSERTED.
12. BOLLARD SOCKET, SEE STRUCTURAL.
13. REMOVABLE BOLLARD INTERNAL MEMBER AND CONNECTIONS, SEE STRUCTURAL.
14. BOLLARD FOOTING, CONTINUOUS ACROSS PARKING STALL, SEE STRUCTURAL TYP.
15. ADJACENT SIDEWALK, SEE CIVIL PLANS.
16. BOLLARD LOCK.
17. SIDEWALK-SIDE BOLLARD FOOTING, SEE STRUCTURAL TYP.

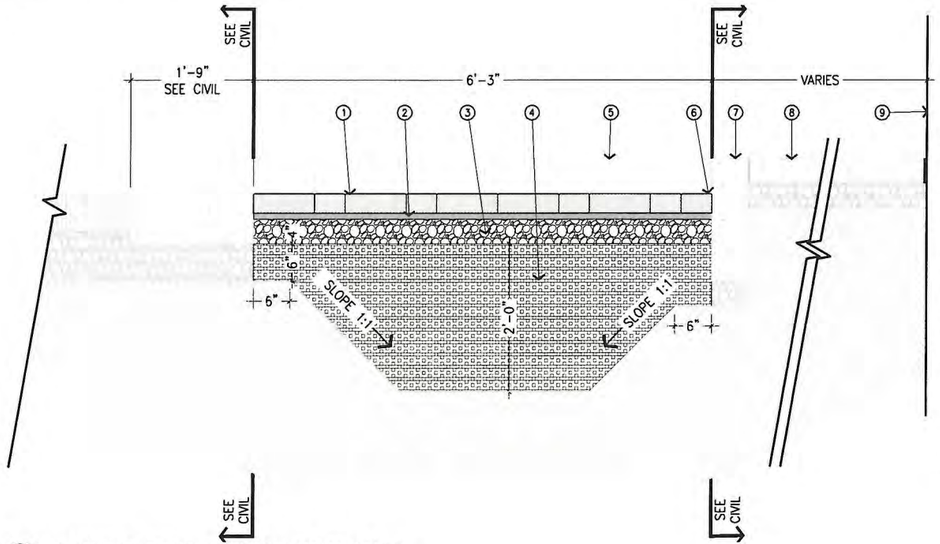
NOTES:
A. LAY OUT CONCRETE UNIT PAVERS BEGINNING AT ROADWAY SIDE WITH FULL PAVER. CUT PAVERS ON SIDEWALK SIDE OF PARKING STALL AS REQUIRED, NOT SMALLER THAN $\frac{1}{3}$ OF A FULL PAVER.
B. SLOPE TO DRAIN PER CIVIL GRADING PLANS.



2 CONCRETE CROSSWALK WITH BANDING PAVERS (ASPHALT SET)
SCALE: 1" = 1'-0"

1. CEMENT CONCRETE PAVEMENT- SEE CIVIL.
2. PRIME COAT-CUTBACK OR EMULSIFIED ASPHALT INCLUSIVE IN BITUMEN BED THICKNESS
3. CONCRETE UNIT PAVERS, SET 1/8" ABOVE CONCRETE, IN RANDOM ASHLAR PATTERN WITH POLYMERIC SAND SET JOINTS.
4. SAND-ASPHALT (BITUMEN) SETTING BED 1" THICK W/NEOPRENE ADHESIVE.
5. 3" DIA. WEEP HOLE, FILL FLUSH WITH ASTM #8 AGGREGATE, HOLES 16" O.C. ALONG LOWEST EDGE. PLUG WEEP HOLES TEMPORARILY TO PREVENT ASPHALT, SAND OR DEBRIS ENTERING WEEP HOLES. REMOVE PLUGS PRIOR TO INSTALLING PAVERS.
6. $1\frac{1}{2}$" EPOXY COATED DOWEL 12" O.C. BAR PER STANDARD PLAN A-40.10-03

NOTES:
A. THIS DETAIL ALSO COVERS PAVER CONDITION AT MIDBLOCK CROSSING.
B. COORDINATE PAVER INSTALLATION WITH CONCRETE TO ELIMINATE UNNECESSARY CUTTING OF PAVERS EXCEPT AS SHOWN IN RANDOM ASHLAR PATTERN.
C. PAVERS SHALL NOT BE CUT SMALLER THAN $\frac{1}{3}$ OF A FULL PAVER.
D. ALL TRANSVERSE CONTRACTION AND CONSTRUCTION JOINTS TO BE PER STANDARD PLAN A-40.10-03
E. SEE PLANS FOR JOINT SPACING



3 PARKING STALL SECTION WITH CURB
SCALE: 1" = 1'-0"

1. CONCRETE UNIT PAVERS IN ASHLAR PATTERN WITH POLYMERIC SAND JOINTS.
2. 1" DEPTH BEDDING SAND.
3. 4" CRUSHED SURFACING TOP COURSE PER WSDOT 9-03.9(3) COMPACTED 95%
4. 24" DEPTH STRUCTURAL SOIL.
5. 6-INCH TALL CURB @ LANDSCAPE (BEYOND).
6. CUT PAVERS AT THIS EDGE AS REQUIRED, NO SMALLER THAN $\frac{1}{3}$ OF A FULL PAVER.
7. CURB TYPE E-2, SEE CIVIL PLANS.
8. SIDEWALK, SEE CIVIL PLANS.
9. FACE OF BUILDING.

NOTES:
A. LAY OUT CONCRETE UNIT PAVERS BEGINNING AT ROADWAY SIDE WITH FULL PAVER. CUT PAVERS ON SIDEWALK SIDE OF PARKING STALL AS REQUIRED, NOT SMALLER THAN $\frac{1}{3}$ OF A FULL PAVER.
B. SLOPE TO DRAIN PER CIVIL GRADING PLANS.

3/13/17
STATE OF WASHINGTON
REGISTERED LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

CONFORMED PLANS

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ABAM
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Approved By		03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
DETAILS

Drawing No. DT3
Sheet No. 48 / 79 of Total

Mar 15, 2017 - 4:43pm dsvidb U:\Bothell Main Street\DWG\MAIN-DT.dwg Layout Name: DT-3

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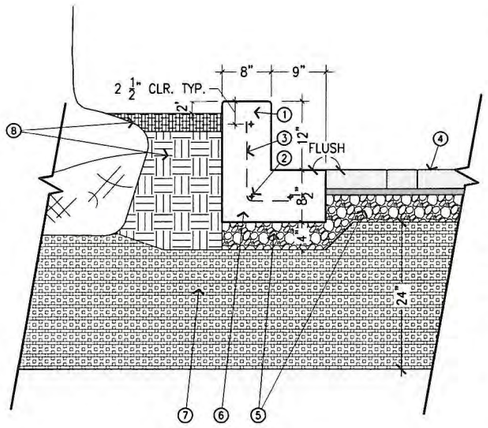
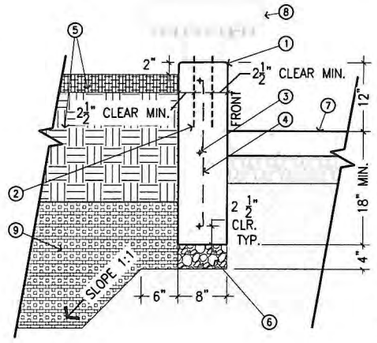


1. CIP CONCRETE CURB WALL, CLASS 1 FINISH PER WSDOT 6-02, MONOLITHICALLY POURED WITH 12-INCH TALL CURB WALL CONDITION B AND C. 1/2" RADIUS ON ALL CORNERS.
2. #4 REBAR, CONTINUOUS, 12" O.C. MAX., HORIZ.
3. #4 DEFORMED REBAR, 15" O.C. VERTICAL.
4. CONCRETE UNIT PAVERS, SEE DETAIL 1/DT3.
5. 4" CRUSHED SURFACING TOP COURSE PER WSDOT 9-03.9(3) COMPACTED 95%.
6. CURB WALL MONOLITHIC FOOTING.
7. STRUCTURAL SOIL.
8. TOPSOIL AND MULCH, SEE LS SHEETS

NOTES:
A. SEE SPECIAL PROVISIONS FOR ALL MATERIALS & INSTALLATION.
B. SEE CIVIL DRAWINGS FOR WALL LAYOUTS.
C. ANTI-GRAFFITTI COATING ON ALL EXPOSED FACES OF CONCRETE.

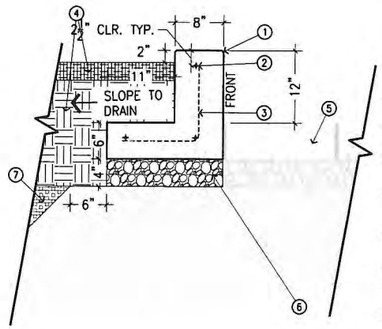
1 12-INCH TALL CURB WALL (CONDITION A)
SCALE: 1" = 1'-0"



1. CIP CONCRETE WALL, CLASS 1 FINISH PER WSDOT 6-02, MONOLITHICALLY POURED WITH 12-INCH TALL CURB WALL CONDITION A AND C. 1/2" RADIUS ON ALL CORNERS
2. THREADED J-BOLTS EMBEDDED INTO CONCRETE AT WOOD BENCH LOCATIONS ONLY. SEE UD SHEETS FOR LOCATIONS OF METAL SEAT TOP.
3. #4 REBAR, 12" O.C. MAX, HORIZONTAL,CONTINUOUS THROUGH 12" CURB WALL.
4. #4 REBAR, 15" O.C. MAX., VERT., ALTERNATE ORIENTATION FRONT/BACK..
5. TOPSOIL AND TOP MULCH, SEE LS SHEETS
6. 4" CRUSHED SURFACING TOP COURSE PER WSDOT 9-03.9(3) COMPACTED 95%.
7. ADJACENT CEMENT CONC. SIDEWALK.
8. METAL SEAT TOP SHOWN FOR REFERENCE. SEE UD SHEETS FOR LOCATIONS. FOR METAL SEAT TOP, SEE DETAIL 6, THIS SHEET.
9. STRUCTURAL SOIL.

NOTES:
A. SEE SPECIAL PROVISIONS FOR ALL MATERIALS & INSTALLATION.
B. SEE CIVIL DRAWINGS FOR WALL LAYOUTS.
C. ANTI-GRAFFITTI COATING ON ALL EXPOSED EXPOSED CURB WALL FACES.

2 12-INCH TALL CURB WALL (CONDITION B)
SCALE: 1" = 1'-0"



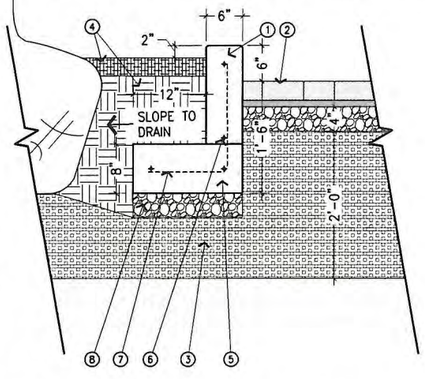
1. CIP CONCRETE WALL, CLASS 1 FINISH PER WSDOT 6-02, MONOLITHICALLY POURED WITH 12-INCH TALL CURB WALL CONDITION A AND B. 1/2" RADIUS ON ALL CORNERS
2. #4 REBAR, 12" O.C. MAX, HORIZONTAL,CONTINUOUS.
3. #4 REBAR, 15" O.C. MAX., VERT., ALTERNATE ORIENTATION FRONT/BACK.
4. TOPSOIL AND TOP MULCH, SEE LS SHEETS
5. ADJACENT CEMENT CONCRETE, SEE CIVIL PLANS.
6. 4" CRUSHED SURFACING TOP COURSE PER WSDOT 9-03.9(3) COMPACTED 95%.
7. STRUCTURAL SOIL.

NOTES:
A. SEE SPECIAL PROVISIONS FOR ALL MATERIALS & INSTALLATION.
B. SEE CIVIL DRAWINGS FOR WALL LAYOUTS.
C. ANTI-GRAFFITTI COATING ON ALL EXPOSED EXPOSED CURB WALL FACES.

3 12-INCH TALL CURB WALL (CONDITION C)
SCALE: 1" = 1'-0"

1. 6-INCH TALL CURB @ LANDSCAPE, ½" RADIUS ALL CORNERS.
2. CONCRETE UNIT PAVERS, SEE DETAIL 1/DT3.
3. STRUCTURAL SOIL.
4. TOPSOIL AND MULCH, SEE LS SHEETS.
5. 4" CRUSHED SURFACING TOP COURSE PER WSDOT 9-03.9(3) COMPACTED 95%.
6. #4 REBAR, CONTINUOUS
7. #4 DEFORMED REBAR, 15" O.C.
8. 4" CRUSHED SURFACING TOP COURSE PER WSDOT 9-03.9(3) COMPACTED 95%.

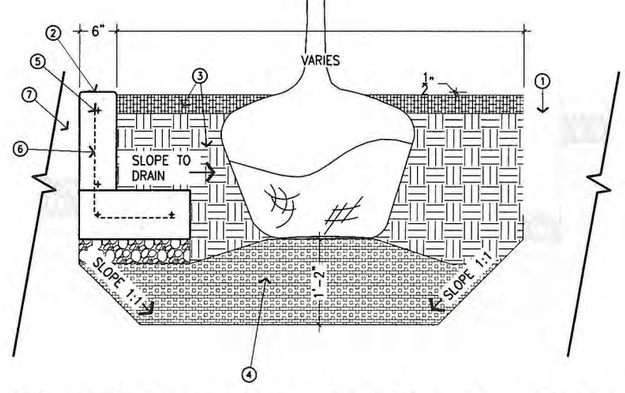
NOTE:
A. SEE DT2 FOR CURB LAYOUT INFORMATION.
B. REBAR CONTINUOUS AROUND ALL LANDSCAPE AREA CURBS.



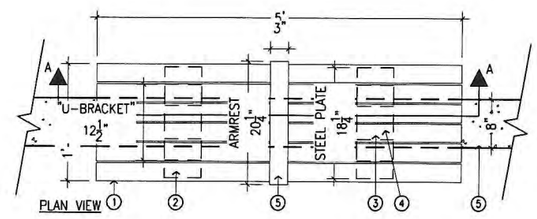
4 6-INCH TALL CURB AT LANDSCAPE
SCALE: 1" = 1'-0"

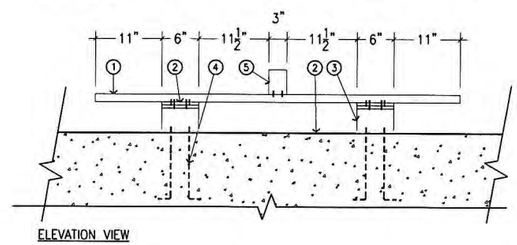
1. CURB TYPE E-2, SEE CIVIL PLANS.
2. 6-INCH TALL CURB @ LANDSCAPE, ½" RADIUS ALL CORNERS.
3. TOP SOIL AND MULCH, SEE LS SHEETS.
4. STRUCTURAL SOIL.
5. #4 REBAR, CONTINUOUS.
6. #4 DEFORMED BAR, 15" O.C.
7. ADJACENT CONCRETE, SEE CIVIL PLANS.

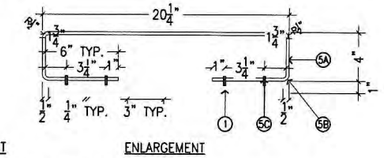
NOTES:
A. SEE DT2 FOR CURB LAYOUT INFORMATION.
B. REBAR CONTINUOUS AROUND ALL LANDSCAPE AREA CURBS.



5 STRUCTURAL SOIL AT PLANTING AREA – NORTH-SOUTH SECTION
SCALE: 1" = 1'-0"

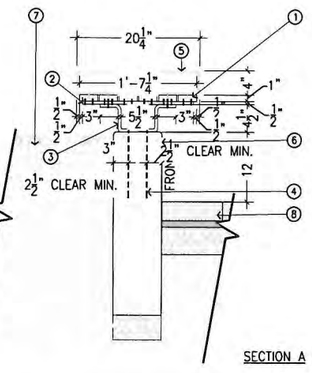






ARMREST ENLARGEMENT

1. 1" X 3" X 5' (11GA) GALVANIZED STEEL TUBE WITH ENDS WELDED CLOSED AND SANDED SMOOTH, FASTENED TO GALVANIZED STEEL PLATE FROM UNDERSIDE WITH SCREWS, POWDER COATED FINISH.
2. 6"X18¼" GALVANIZED STEEL PLATE, ½" THICKNESS, FASTENER HOLES PREDRILLED.
3. GALVANIZED STEEL "U-BRACKET" BENT TO FORM, ½" THICK, BOLT TO CONCRETE WALL.
4. THREADED J-BOLTS EMBEDDED INTO CONCRETE, FOUR (4) PER BRACKET.
5. GALVANIZED STEEL ARMREST, POWDER COATED FINISH, SEE ENLARGEMENT.
   5.A. 3"X40" POWDER COATED STEEL BAR, ¼" THICK.
   5.B. BAR BENT TO SHAPE, ALL CORNERS WITH ½" RADIUS.
   5.C. (8) PREDRILLED HOLES FOR MOUNTING TO METAL SLATS. MOUNT FROM UNDERNEATH.
6. CIP CONCRETE WALL, SEE DETAIL 2/DT4.
7. ADJACENT PLANTED TREE PIT.
8. ADJACENT CONCRETE UNIT PAVERS, SEE UD SHEETS.



NOTES:
A. SEE SPECIAL PROVISIONS FOR ALL MATERIALS, INSTALLATION & FINISHES.
B. SHOP DRAWINGS TO BE PROVIDED BY FABRICATOR FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.
C. STEEL CONCEALED FASTENERS TO BE USED TO SECURE METAL SLATS TO STEEL PLATE & U-BRACKET.

SECTION A

6 METAL SEAT TOP
SCALE: 1" = 1'-0"

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273
3/13/17

CONFORMED PLANS

No.	Date	Revision	By	Appr.

ABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 431-2300 FAX: (206) 431-2311

City of Bothell

CASCADE DESIGN COLLABORATIVE

		Date
Drawn By	DB	03/13/2017
Designed By	ES	03/13/2017
Checked By	ES	03/13/2017
Approved By		03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
DETAILS

Drawing No. DT4
Sheet No. 49 of Total 79

Mar 15, 2017 - 4:43pm davidb U:\Bothell Main Street\DWG\MAIN-DT.dwg Layout Name: DT-4

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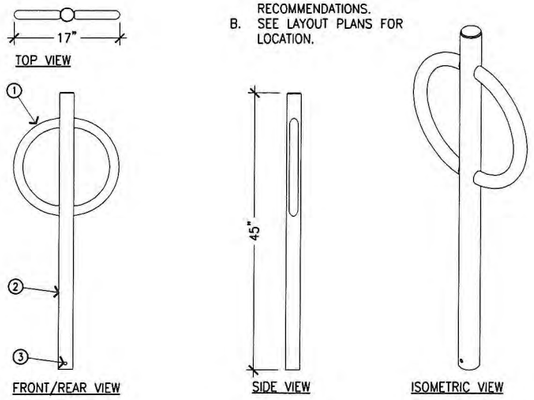
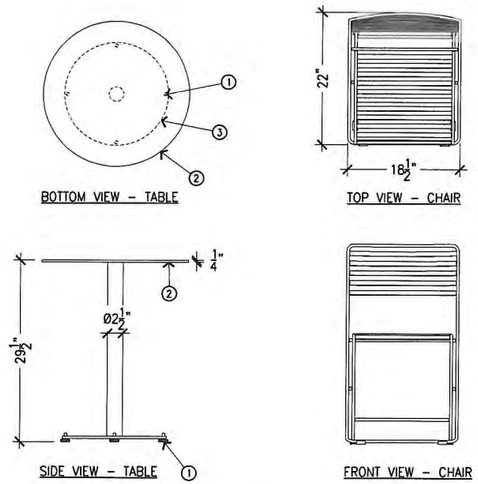


1. $1\frac{1}{2}$" STEEL TUBE.
2. $2\frac{1}{3}$" STEEL TUBE.
3. HOLE FOR THROUGH $\frac{3}{8}$" REBAR.

NOTES:
A. EMBED MOUNT PER MANUFACTURER'S RECOMMENDATIONS.
B. SEE LAYOUT PLANS FOR LOCATION.

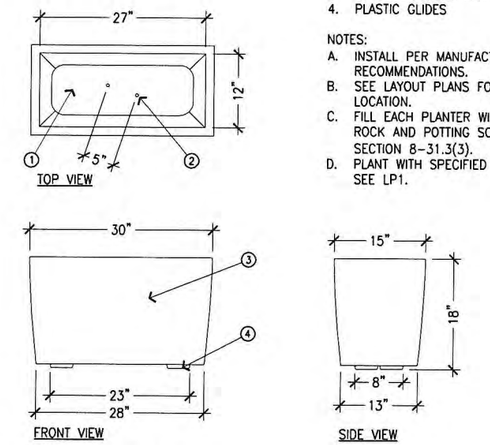
1 BICYCLE RACK
SCALE: 1" = 1'-0"



1. NON-MARRING GLIDES.
2. Ø24" TABLE TOP.
3. Ø17" BASE PLATE.

NOTES:
A. SEE SPECIAL PROVISIONS FOR ALL MATERIALS & INSTALLATION.
B. TETHER CHAIRS TO TABLE. STEEL CABLE AND LOCK SHALL BE PROVIDED BY CONTRACTOR.
C. GLIDES ON TABLE ARE ADJUSTABLE.
D. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
E. SEE LAYOUT PLANS FOR LOCATION.

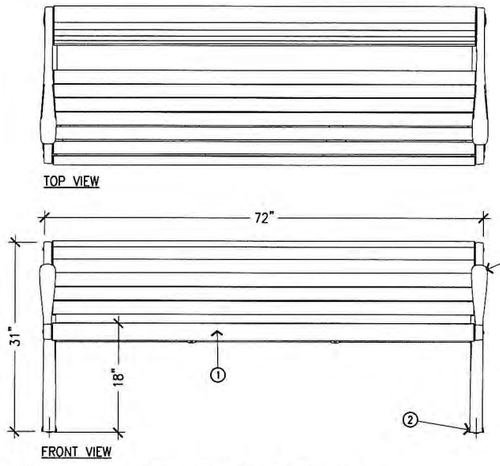
2 BISTRO TABLE AND CHAIRS
SCALE: 1" = 1'-0"



1. INTERIOR PLASTIC BASE
2. Ø$\frac{1}{2}$" DRAIN HOLE LOCATIONS
3. POWDER COATED STEEL OR STAINLESS STEEL PLANTER BODY
4. PLASTIC GLIDES

NOTES:
A. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
B. SEE LAYOUT PLANS FOR LOCATION.
C. FILL EACH PLANTER WITH DRAIN ROCK AND POTTING SOIL PER SECTION 8-31.3(3).
D. PLANT WITH SPECIFIED PLANTS, SEE LP1.

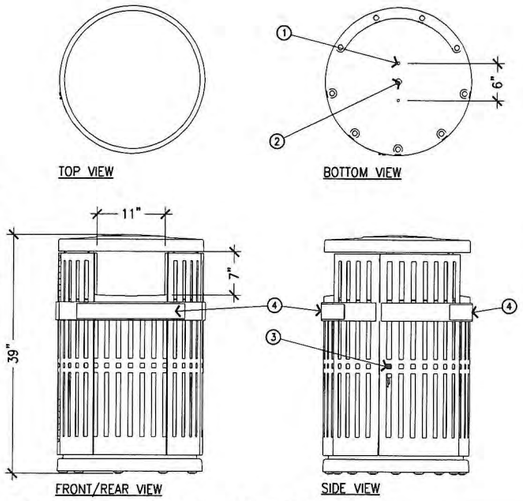
3 CONTAINER PLANTER
SCALE: 1" = 1'-0"



1. Ø1 $\frac{1}{2}$" STEEL TUBE.
2. SURFACE MOUNT ANCHORING HARDWARE SUPPLIED BY CONTRACTOR, Ø1$\frac{3}{32}$" HOLES WITH COUNTERBORE PROVIDED FOR SOCKET HEAD CAP SCREWS.

NOTES:
A. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
B. SEE LAYOUT PLANS FOR LOCATION.

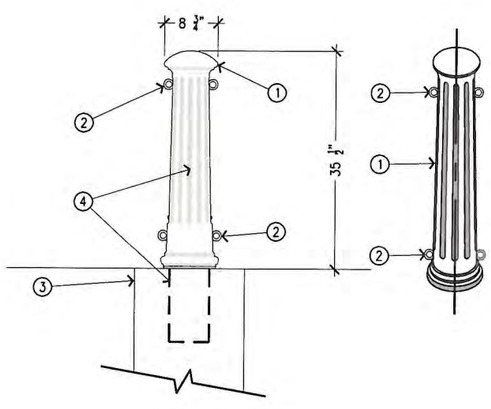
4 METAL SURFACE MOUNT BENCH
SCALE: 1" = 1'-0"



1. Ø1 $\frac{1}{2}$" HOLES FOR ANCHORING. NON-CORROSIVE MOUNTING HARDWARE PROVIDED BY CONTRACTOR.
2. DRAIN HOLE.
3. KEYED LOCK.
4. LOGO BAND WITH DECAL. ARTWORK PROVIDED BY CITY FOR MANUFACTURER FABRICATION, CONTRACTOR SHALL COORDINATE.

NOTES:
A. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
B. SEE LAYOUT PLANS FOR LOCATION.

5 TRASH & RECYCLING RECEPTACLE
SCALE: 1" = 1'-0"



1. DECORATIVE CAST ALUMINUM BOLLARD CASING.
2. $\frac{3}{8}$" ROUND BAR EYELETS, WELD ATTACHED. $\frac{7}{8}$" O.D. AND $\frac{1}{2}$" I.D., TYP.
3. CONCRETE FOOTING, SEE STRUCTURAL PLANS.
4. INTERNAL MEMBER AND CONNECTIONS.

NOTES:
A. INSTALL BOLLARD CASING PER STRUCTURAL PLANS.
B. INSTALL CONCRETE FOOTING PER STRUCTURAL PLANS.

6 REMOVABLE BOLLARD CASING
SCALE: 1" = 1'-0"

STATE OF WASHINGTON
REGISTERED LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273
3/14/17

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City of Bothell

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SCALE
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Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
DETAILS

Drawing No. DT5
Sheet No. 50 / 79 of Total

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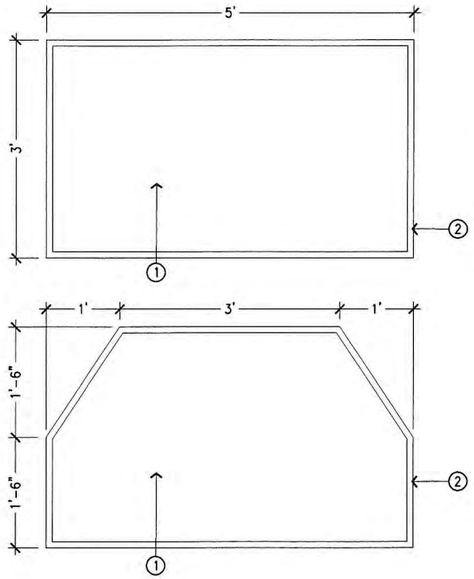


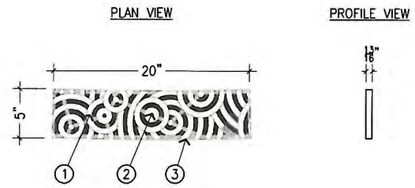
1. COMMERCIAL GRADE ENTRANCE MAT WITH PRINTED GRAPHICS AND RUBBER BACKING.
2. 1" TAPERED EDGE, TYP.

NOTE:
A. CITY SHALL PROVIDE GRAPHIC FILES TO CONTRACTOR FOR FABRICATION.

1 THRESHOLD ENTRANCE MAT
SCALE: 1" = 1'-0"

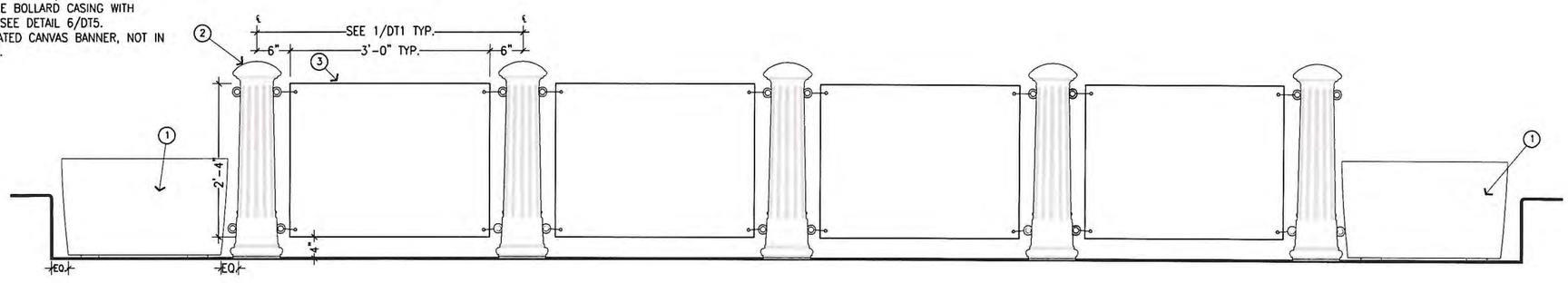
1. CENTERLINE.
2. HOLE FOR BOLT-DOWN.
3. DRAIN COVER.

NOTES:
A. DRAIN COVER TO BE VEHICULAR RATED.
B. SIZED TO FIT EMBEDDED FRAME, SEE CIVIL PLANS.
C. ADA COMPLIANT.
D. HEAL PROOF.



2 TRENCH DRAIN COVER
SCALE: 1" = 1'-0"

1. CONTAINER PLANTER, 30"W X 15"D X 18"H, SEE DETAIL 3/DT5.
2. REMOVABLE BOLLARD CASING WITH EYELETS, SEE DETAIL 6/DT5.
3. VINYL COATED CANVAS BANNER, NOT IN CONTRACT.



3 FLEX DINING ELEVATION
SCALE: 1" = 1'-0"

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273
3/31/17

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Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
DETAILS

Drawing No. DT6
Sheet No. 51 of Total 79

Mar 15, 2017 - 4:43pm davidb U:\Bothell Main Street\DWG\MAIN-DT.dwg Layout Name: DT-6

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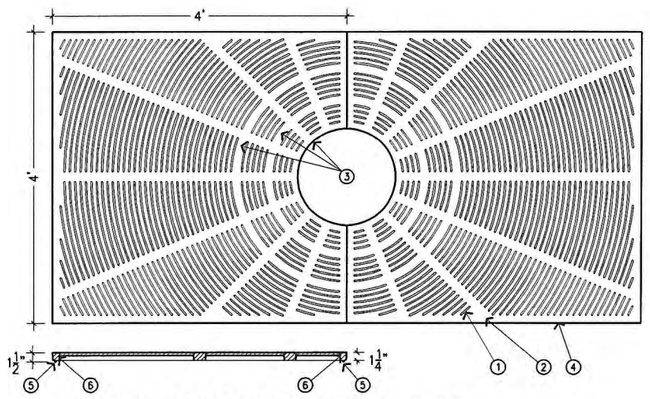
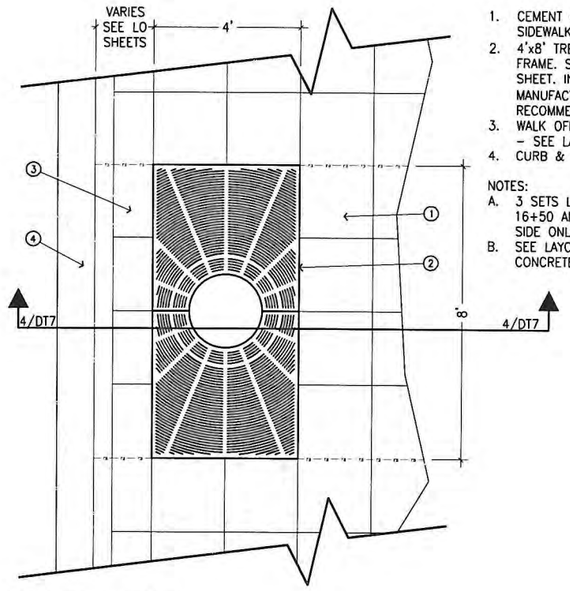


1. SLOT WIDTH IS 1/4" MAXIMUM TO MEET ADA COMPLIANCE.
2. GRATE CAST FROM GRAY IRON.
3. TREE OPENING SIZE. 16".
4. STEEL ANGLE FRAME REQUIRED, SEE DETAIL 4 THIS SHEET
5. ½"x1"x¼" THICK GRINDING PADS FOR LEVELING – TYP. 4 OR MORE PLACES.
6. 1" RIBS.

NOTE:
A. SEE DETAILS 2 & 4, THIS SHEET

1 TREE GRATE – MANUFACTURER DETAIL
SCALE: 1" = 1'-0"

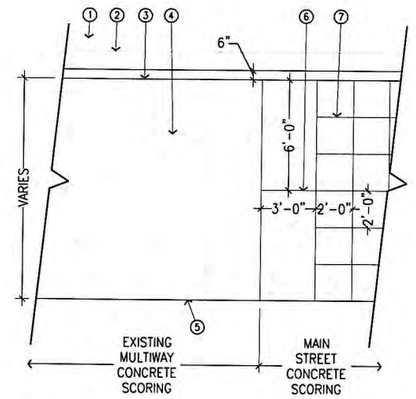


1. CEMENT CONCRETE SIDEWALK – SEE CIVIL.
2. 4'x8' TREE GRATE AND FRAME. SEE DETAIL 1 THIS SHEET. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. WALK OFF ZONE. VARIES – SEE LAYOUT.
4. CURB & GUTTER.

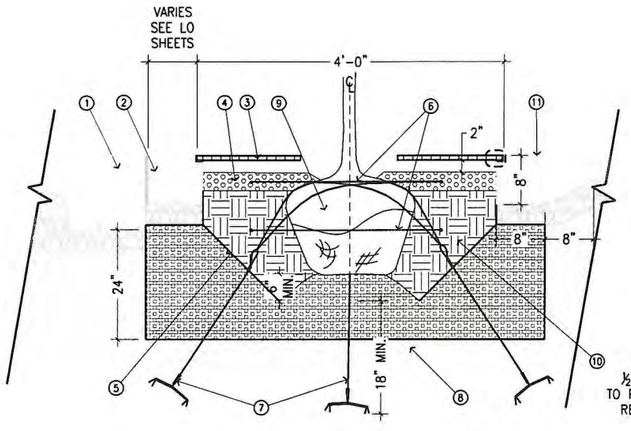
NOTES:
A. 3 SETS LOCATED BETWEEN 16+50 AND 17+50 NORTH SIDE ONLY.
B. SEE LAYOUT SHEETS FOR CONCRETE SCORING.

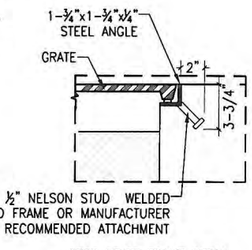
2 TREE GRATE
SCALE: 1/2" = 1'-0"

1. VEHICLE TRAVEL LANE.
2. DEPRESSED CURB AND GUTTER, SEE CIVIL PLANS.
3. BACK OF CURB.
4. EXISTING 3'X6' JOINTING PATTERN, SEE MULTIWAY BOULEVARD PROJECT PHASE 2 CONSTRUCTION PLANS.
5. PROPERTY LINE.
6. 3'X6' TRANSITION PANEL WITH SAWCUT CONTRACTION JOINT.
7. 2'X2' SAWCUT JOINTING.



3 SCORING TRANSITION TO BOTHELL WAY
SCALE: 1/4" = 1'-0"





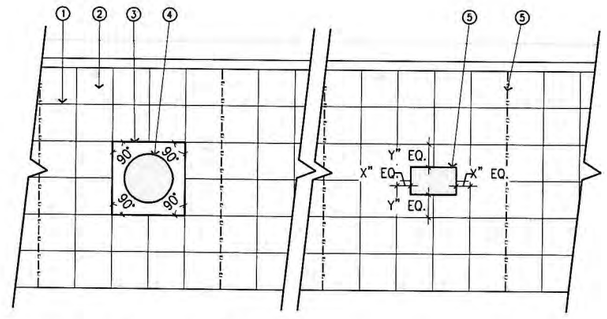
TREE GRATE FRAME DETAIL

1. CEMENT CONCRETE CURB AND GUTTER – SEE CIVIL
2. EXTENSION OF ADJACENT CEMENT CONC. SIDEWALK THICKENED EDGE.
3. TREE GRATE.
4. 3" DEPTH PEA GRAVEL, TAPER WITHIN 12" OF TREE TRUNK TO 0".
5. EXCAVATE TREE PLANTING PIT TO EXTENTS OF TREE GRATE. ROUGHEN SIDES AND BOTTOM OF HOLE.
6. DRIPLINE SEE IRRIGATION DRAWINGS.
7. STAKING SHALL BE BY ROOTBALL ANCHOR – INSTALL PER MANUFACTURER'S RECOMMENDATIONS
8. EXISTING SUBGRADE.
9. TREE WITH SOLID, INTACT ROOTBALL SET WITH ROOT FLARE 1" ABOVE FINISHED GRADE OF PEA GRAVEL. ROOT BALL TO SET ON COMPACTED FIRM BASE.
10. BACKFILL WITH TOPSOIL TYPE B.
11. ADJACENT CEMENT CONC. SIDEWALK WITH THICKENED EDGE.

NOTE:
A. PREPARATION FOR PLANTING SHALL INCLUDE INCORPORATION OF 2½" OF FINE COMPOST INTO THE EXISTING SUBGRADE TO A DEPTH OF 8" AND THE INCORPORATION OF FIRST LIFT OF TOPSOIL INTO PREPARED SUBGRADE.
B. SEE SOILS PLAN FOR EXTENT AND TYPE OF SOIL PREPARATION.
C. SEE DETAIL 1/LP5 FOR DECIDUOUS TREE INSTALLATION.

4 TREE GRATE SECTION
SCALE: 1" = 1'-0"

1. 2'X2' SAWCUT JOINTING.
2. CEMENT CONC. SIDEWALK
3. CEMENT CONC. COLLAR, SEE DETAIL 5/DT7.
4. MANHOLE FRAME AND COVER AS NOTED IN PLANS.
5. UTILITY LID AS NOTED IN PLANS.
6. EXPANSION JOINT.



5 TYPICAL SCORING AT LID
SCALE: 1/4" = 1'-0"

3/13/17
STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

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City of Bothell

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SCALE
Horiz
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Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
DETAILS

Drawing No. DT7
Sheet No. 52 / 79 of Total

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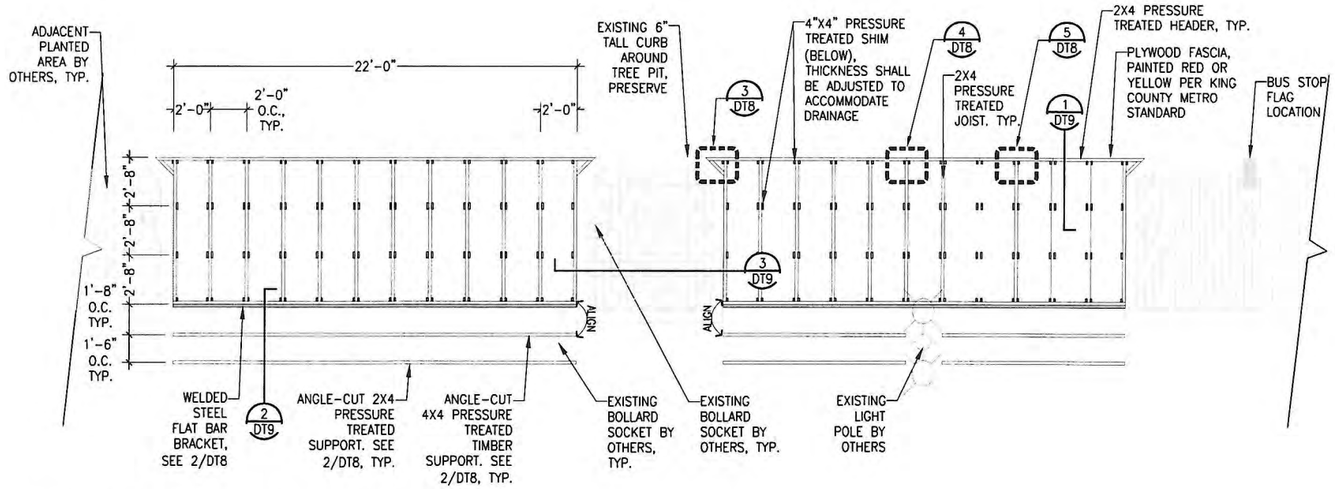
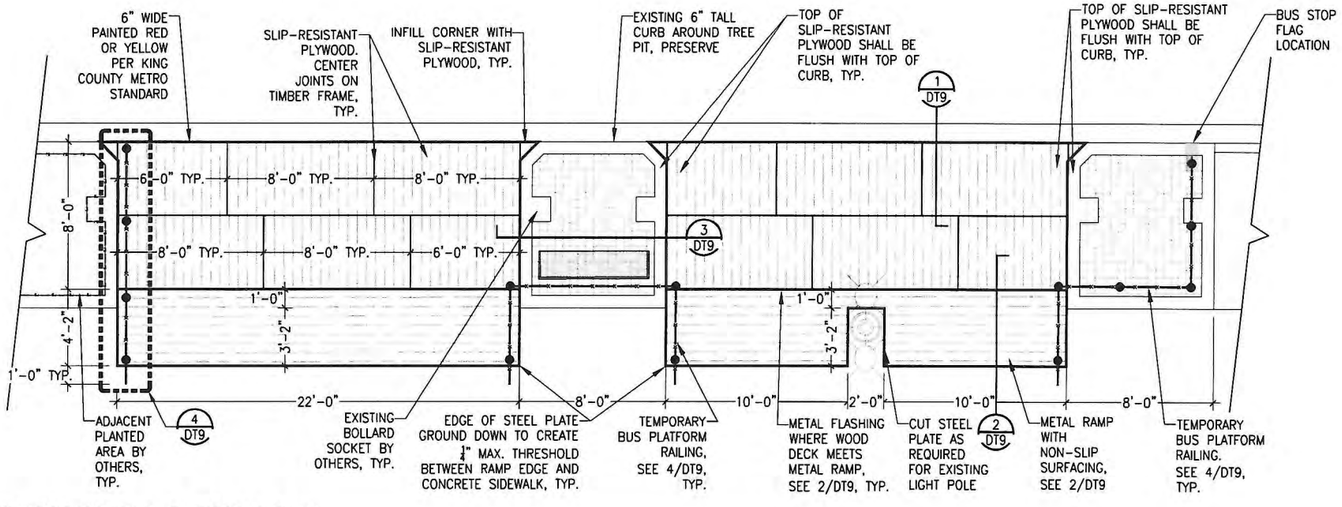


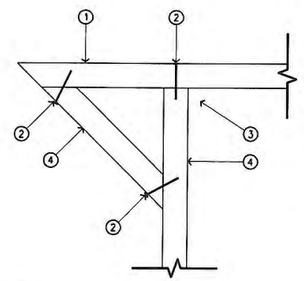
1 TEMPORARY BUS PLATFORM STRUCTURE PLAN
SCALE: 1/4" = 1'-0"



2 TEMPORARY BUS PLATFORM PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTE

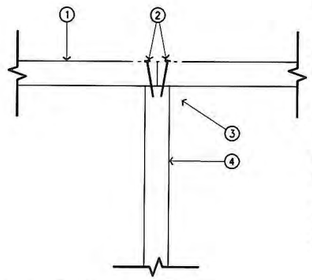
1. FOR TEMPORARY BUS PLATFORM GENERAL NOTES, SEE GM1.



1. PRESSURE TREATED HEADER PER PLAN DETAIL 1/DT8, CUT TO MATCH SLOPE OF CONCRETE CURB.
2. 2 – 8D END SCREWS, TYP.
3. 4"X4" PRESSURE TREATED WOOD SHIM, TYP. THICKNESS SHALL BE ADJUSTED TO ACCOMMODATE DRAINAGE.
4. PRESSURE TREATED JOIST PER PLAN DETAIL 1/DT8.

NOTE:
A. 8D WOOD SCREWS SHALL BE 2½" IN LENGTH UNLESS SPECIFIED OTHERWISE.
B. EDGE SCREWS SHALL BE #8 SPACED @ 6" O.C. STAGGERED
C. FIELD SCREWS SHALL BE #8 SPACED @ 12" O.C.

3 FRAMING DETAIL
SCALE: 2" = 1'-0"



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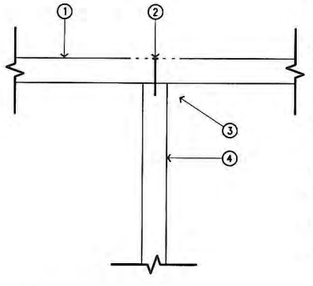
2. 2 – 8D END SCREWS, TYP.
3. 4"X4" PRESSURE TREATED WOOD SHIM, TYP. THICKNESS SHALL BE ADJUSTED TO ACCOMMODATE DRAINAGE.
4. PRESSURE TREATED JOIST PER PLAN DETAIL 1/DT8.

NOTE:
A. 8D WOOD SCREWS SHALL BE 2½" IN LENGTH UNLESS SPECIFIED OTHERWISE.
B. EDGE SCREWS SHALL BE #8 SPACED @ 6" O.C. STAGGERED
C. FIELD SCREWS SHALL BE #8 SPACED @ 12" O.C.

4 FRAMING DETAIL
SCALE: 2" = 1'-0"



1. PRESSURE TREATED HEADER PER PLAN DETAIL 1/DT8, CUT TO MATCH SLOPE OF CONCRETE CURB.
2. 2 – 8D END SCREWS, TYP.
3. 4"X4" PRESSURE TREATED WOOD SHIM, TYP. THICKNESS SHALL BE ADJUSTED TO ACCOMMODATE DRAINAGE.
4. PRESSURE TREATED JOIST PER PLAN DETAIL 1/DT8.

NOTE:
A. 8D WOOD SCREWS SHALL BE 2½" IN LENGTH UNLESS SPECIFIED OTHERWISE.
B. EDGE SCREWS SHALL BE #8 SPACED @ 6" O.C. STAGGERED
C. FIELD SCREWS SHALL BE #8 SPACED @ 12" O.C.

5 FRAMING DETAIL
SCALE: 2" = 1'-0"

3/3/17
STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
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CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
TEMPORARY BUS STOP DETAILS

Drawing No. DT8
Sheet No. 53 of 79 Total

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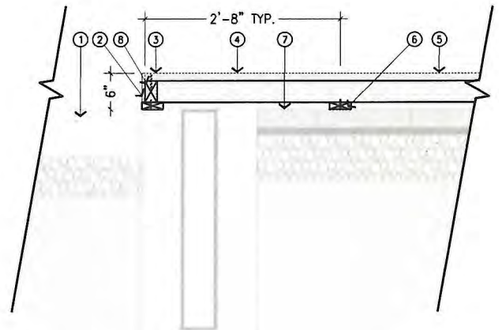
1. ADJACENT ROADWAY.
2. ¾" x 5" WIDE EXTERIOR GRADE PLYWOOD FASCIA, PAINTED RED OR YELLOW PER KING COUNTY METRO STANDARD.
3. FIRST 6" OF DECKING ON TRAVEL LANE SIDE STRIPED RED OR YELLOW PER KING COUNTY METRO STANDARD.
4. 1" SLIP-RESISTANT EXTERIOR GRADE PLYWOOD, SCREW TO WOOD FRAME, SLOPE TO DRAIN.
5. WOOD SCREWS, TYP.
6. 4"X4" PRESSURE TREATED WOOD SHIM, SPACE DETAIL 1/DT8, SCREW TO BOTTOM OF TIMBER FRAME, THICKNESS SHALL BE ADJUSTED TO ACCOMMODATE DRAINAGE.
7. EXISTING PAVERS BELOW.
8. 2X4 PRESSURE TREATED HEADER.

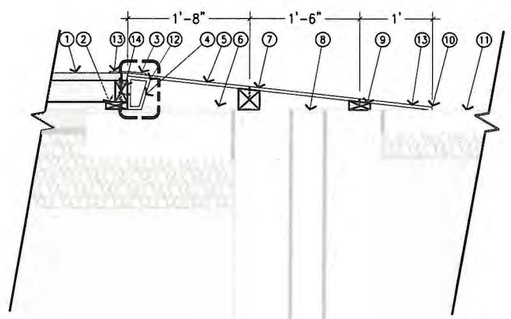
NOTE:
A. PROVIDE SHOP DRAWINGS FOR ALL PLATFORM PARTS.



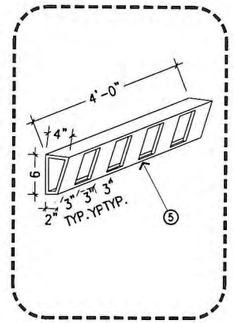
1 TEMPORARY BUS PLATFORM AT TRAVEL LANE
SCALE: 1" = 1'-0"

1. 1" SLIP-RESISTANT EXTERIOR GRADE PLYWOOD, SCREW TO WOOD FRAME, SLOPE TO DRAIN.
2. 4"X4" PRESSURE TREATED WOOD SHIM, SPACE DETAIL 1/DT8, SCREW TO BOTTOM OF TIMBER FRAME, THICKNESS SHALL BE ADJUSTED TO ACCOMMODATE DRAINAGE.
3. ¼"x3"x3" FLASHING, CONSTRUCT FROM STAINLESS STEEL SLIP-RESISTANT FLOOR PLATE FOR EXTERNAL USE PER ASTM ALLOY 304. BOLT TO STEEL BRACKET, SCREW TO WOOD DECKING, 12" O.C.
4. WELDED ⅜" STEEL FLAT BAR BRACKET, GALVANIZED. SEE ENLARGEMENT 1, THIS DETAIL.
5. ⅜" METAL RAMP, CONSTRUCT FROM STAINLESS STEEL SLIP-RESISTANT FLOOR PLATE FOR EXTERNAL USE PER ASTM ALLOY 304. SCREW TO WOOD SUPPORTS AND METAL BRACKETS, 12" O.C.
6. EXISTING DETECTABLE WARNING SURFACE BELOW.
7. 4X4 PRESSURE TREATED TIMBER SUPPORT, CUT ANGLE TO MATCH RAMP. SEE 1/DT8
8. EXISTING BOLLARD SOCKET BELOW.
9. 2X4 PRESSURE TREATED SUPPORT, CUT ANGLE TO MATCH RAMP. SEE 1/DT8
10. GRIND EDGE OF STEEL PLATE TO FORM ¼" MAX THRESHOLD BETWEEN RAMP EDGE AND CONCRETE SIDEWALK.
11. EXISTING CONCRETE SIDEWALK.
12. CONTINUOUS WELD STEEL PLATE TO BRACKET, SEE LAYOUT DETAIL 1/DT8.
13. 6" WIDE YELLOW PAINT LINE.
14. 2X4 PRESSURE TREATED HEADER.

NOTE:
A. PROVIDE SHOP DRAWINGS FOR ALL RAMP PARTS.

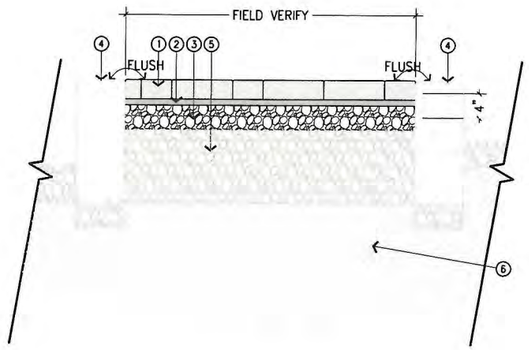


2 TEMPORARY BUS PLATFORM RAMP
SCALE: 1" = 1'-0"



ENLARGEMENT 1 (BRACKET)

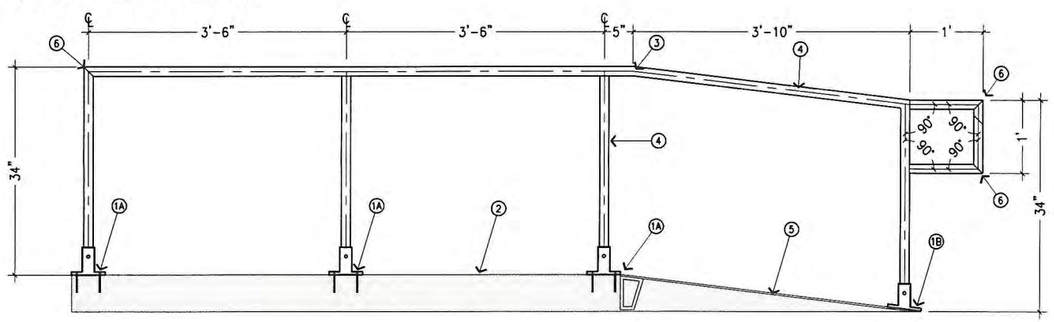
1. CONCRETE UNIT PAVERS IN ASHLAR PATTERN WITH POLYMERIC SAND JOINTS.
2. 1" DEPTH BEDDING SAND.
3. 4" CRUSHED SURFACING TOP COURSE PER WSDOT 9-03.9(3) COMPACTED 95%.
4. EXISTING CONCRETE CURB
5. EXISTING FILL MATERIAL
6. EXISTING SUBGRADE



3 TEMPORARY BUS PLATFORM PAVER INFILL
SCALE: 1" = 1'-0"

1. 1½" GALVANIZED STANDARD RAILING FLANGE WITH TAMPER RESISTANCE SET SCREWS AND THREAD LOCK.
   1.A. ½" X 4" LAG SCREWS TO PLYWOOD PLATFORM, QTY. AS REQUIRED PER FLANGE.
   1.B. WELD TO STEEL PLATE.
2. TEMPORARY BUS PLATFORM, DETAIL 1, THIS SHEET.
3. R=4 ½" @ CENTERLINE
4. 1 ½" O.D. STAINLESS STEEL SCH 40 PIPE
5. METAL RAMP, DETAIL 2, THIS SHEET.
6. MITER HANDRAIL AT CORNERS.

NOTES:
A. PROVIDE SHOP DRAWINGS FOR ALL RAILINGS PARTS.



4 TEMPORARY BUS PLATFORM RAILING
SCALE: 1" = 1'-0"

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

3/31/17

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
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City of Bothell

CASCADE DESIGN COLLABORATIVE

Drawn By DB	Date 03/13/2017
Designed By ES	03/13/2017
Checked By ES	03/13/2017
Approved By	03/13/2017
SCALE	
Horiz	
Vert	
Project Number A15.0150	

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
TEMPORARY BUS STOP DETAILS

Drawing No. DT9
Sheet No. 54 of 79 Total

Mar 15, 2017 - 4:43pm davidb U:\Bothell Main Street\DWG\MAIN-DT.dwg Layout Name: DT-9

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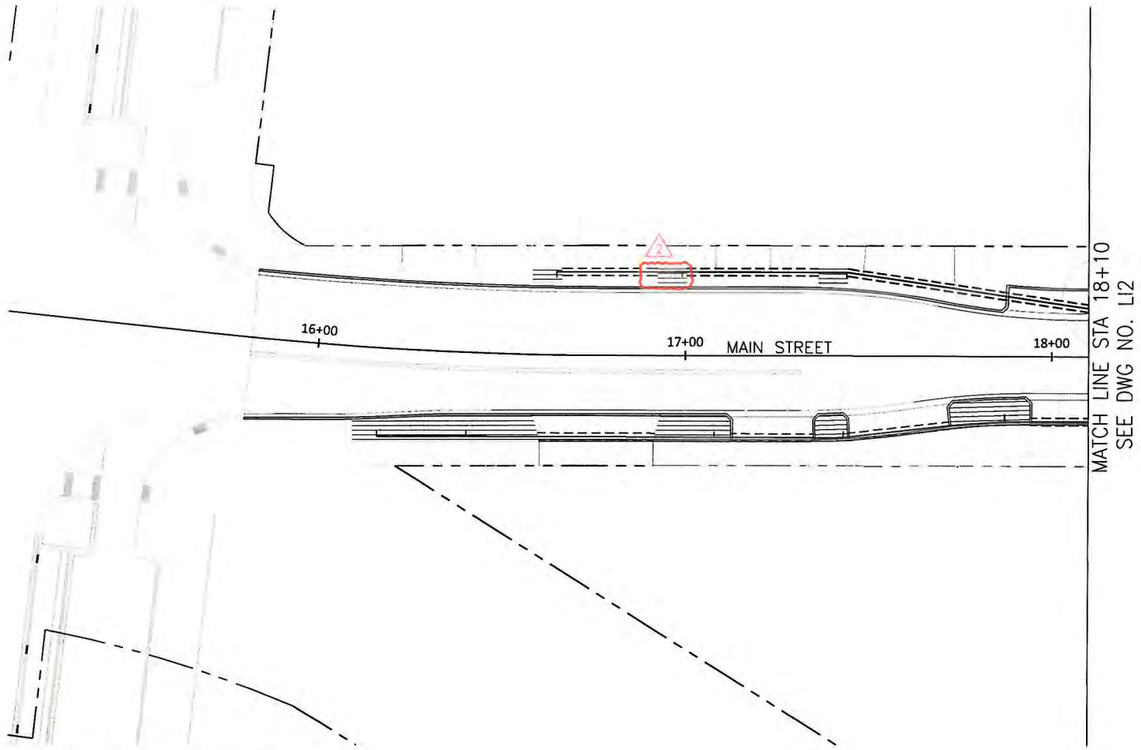


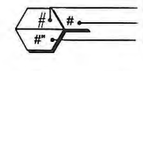
STANDARD IRRIGATION NOTES:

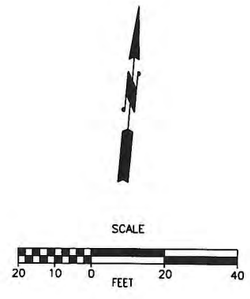
1. SCOPE OF WORK: INSTALLATION OF A FULLY AUTOMATIC IRRIGATION SYSTEM TO PROVIDE IRRIGATION TO ALL SCHEDULED AREAS (SHOWN ON PLANS), WARRANTY AND MAINTENANCE.
2. BEFORE PROCEEDING WITH ANY WORK, INSPECT THE SITE, STAKE THE IRRIGATION SYSTEM PER THE PLANS, CHECK ALL GRADES AND VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING, ARCHITECTURAL FEATURES AND UTILITIES.
3. PRIOR TO COMMENCEMENT OF THE WORK, CITY FACILITIES STAFF, A/E, GENERAL CONTRACTOR AND IRRIGATION SUBCONTRACTOR SHALL MEET ON-SITE FOR PRE-INSTALLATION CONFERENCE.
4. SEE SHEET TP1 FOR TREE PROTECTION AND DETAILS. MAINTAIN CONSTRUCTION ACTIVITY WITHIN CLEARING LIMITS.
5. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST RULES, REGULATIONS, AND OTHER APPLICABLE STATE OR LOCAL LAWS.
6. INSTALLATION AND MAINTENANCE OF IRRIGATION SYSTEM SHALL BE PER BEST MANAGEMENT PRACTICES PER IRRIGATION ASSOCIATION – WWW.IRRIGATION.ORG
7. CONTRACTOR REQUIRED TO TEST PRESSURE AT POINT OF CONNECTION (POC) PRIOR TO SYSTEM DESIGN AND INSTALLATION. SUBMIT TEST RESULTS TO LANDSCAPE ARCHITECT.
8. SEE SHEET LI3 FOR LOCATION OF EXTERIOR CONTROLLER FOR IRRIGATION SYSTEM. COORDINATE LOCATION FOR ELECTRICAL CONTRACTOR FOR POWER.
9. DUE TO THE SCALE OF DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTING, SLEEVES, ETC. WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL WORK AND PLAN ACCORDINGLY. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. SPRINKLER HEADS ARE SHOWN ACCURATELY AND SHALL BE INSTALLED AS INDICATED BY CENTER OF SYMBOL. ADJUST SPRAY HEAD ARC TO ELIMINATE OVER SPRAY ON ADJACENT PAVEMENT, BUILDINGS, FENCES, ETC.
10. IRRIGATION LINES SHOWN IN PAVING PARALLEL TO PLANTING BEDS SHALL BE LOCATED IN PLANTER ADJACENT TO PAVING. IRRIGATION LINES AND WIRING UNDER PAVEMENT SHALL BE SLEEVED. PIPELINES SHOWN PARALLEL ON DRAWING MAY BE PLACED IN A COMMON TRENCH BUT SEPARATED BY AT LEAST 3 INCHES AND ALL PIPES OF DISSIMILAR MATERIALS SHALL BE INSTALLED PER LOCAL CODES.
11. WARRANT IRRIGATION SYSTEM PER REQUIREMENTS STATED IN WSDOT 8-03.3(11) FOR A PERIOD OF ONE YEAR.
12. SUBSTANTIAL COMPLETION OF THE IRRIGATION SYSTEM IS ACHIEVED AFTER CERTIFICATIONS RECEIVED FOR BACKFLOW PREVENTION DEVICE INSPECTION, POINT OF CONNECTION PRESSURE TEST, AND SYSTEM COVERAGE TEST ARE RECEIVED BY OWNER'S REPRESENTATIVE; OWNER'S TRAINING HAS BEEN COMPLETED; AS-BUILT DRAWINGS SUBMITTED; AND PUNCHLIST OF THE SYSTEM HAS BEEN COMPLETED.
13. PHYSICAL COMPLETION OF THE IRRIGATION SYSTEM IS ACHIEVED AFTER ALL PUNCHLIST ITEMS HAVE BEEN COMPLETED, AND APPROVED BY OWNER'S REPRESENTATIVE.
14. RAIN SENSOR TO BE INCLUDED IN SYSTEM. COORDINATE LOCATION AND CONDUIT TO CONTROLLER WITH GENERAL CONTRACTOR.
15. ALL LATERAL LINES SHALL BE SIZED AS FOLLOWS, UNLESS OTHERWISE NOTED ON DRAWING:
    - 0-10 GPM: 3/4"
    - 10-16 GPM: 1"
    - 16-26 GPM: 1-1/4"
    - 26-35 GPM: 1-1/2"
    - 35-55 GPM: 2"
    - 55-80 GPM: 2-1/2"
16. DO NOT ALLOW HORIZONTAL PIPE ELEVATION CHANGES TO EXCEED THE CAPACITY OF A DRIP EMITTERS BUILT-IN CHECK VALVE.
17. PLACE METALLIC LOCATOR TAPE 6" ABOVE IRRIGATION MAINLINE PRIOR TO BACKFILLING TRENCH. LEAVE 6" OF METALLIC TAPE VISIBLE IN VALVE BOXES.
18. PROVIDE ONE ZONE ISOLATION BALL VALVE BEFORE EACH AUTOMATIC ZONE VALVE FOR MAINTENANCE.
19. LOCATE VALVES AND QUICK COUPLERS IN BEDS AT LEAST 24-INCHES OFF HARDSCAPE EDGES.
20. COORDINATE WITH CIVIL, MECHANICAL AND ELECTRICAL CONTRACTORS.
21. PROVIDE A MINIMUM OF TWO SPARE CONTROL WIRES FROM CONTROLLER TO ALL SEGMENTS OF MAIN LINE(S).

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird XCZ-100-PRB-COM Medium Plus Flow Drip Control Kit for Commercial Applications. 1" Ball Valve with 1" PESB Valve and 1" Pressure Regulating 40psi Quick-Check Basket Filter. 3gpm to 20gpm. Install gate valve before each drip control zone valve, per detail.
	Area to Receive Dripline Rain Bird XFCV-09-12 (18) XFCV On-Surface Landscape Dripline with a Heavy-Duty 3.5 psi Check Valve. 0.9GPH emitters at 12.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. Great for elevation change.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird 44-LRC 1" Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Locking Thermoplastic Rubber Cover, and 2-Piece Body.
	Matco-Norca 759 Brass Shut Off Ball Valve, 1/2" to 4". Two Piece Body, Blow-Out Proof Stem, Chrome Plated Solid Brass Ball, Threaded, with PTFE Seats. Same size as mainline pipe.
BF	Zurn 950XL 1-1/2" Double Check Valve Assembly
C	Automatic Controller Rain Bird ESP-Site Satellite controller with exterior metal pedestal.
FS	Rain Bird FS-150-P 1-1/2" Flow Sensor for use with Rain Bird Maxicom, SiteControl, and ESP-LXD Central Control Systems. Plastic (PVC) Model. Suggested Operating Range of 5.0 GPM to 100.0 GPM. Sensors should be sized for flow rather than pipe size.
M	Water Meter 1"
	Irrigation Lateral Line: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe. Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4" in size.
	Irrigation Mainline: PVC Schedule 40 PVC Schedule 40 irrigation pipe.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 12 inches beyond edges of paving or construction.





STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

CONFORMED PLANS

No.	Date	Revision	By	Appr.
2	3/2/17	TREE AND TREE GRATE MOVED 2' EAST, IRRIGATION ADJUSTED ACCORDINGLY	DB	ES

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City of Bothell

CASCADE DESIGN COLLABORATION

Drawn By	DB	Date 03/13/2017
Designed By	ES	03/13/2017
Checked By	ES	03/13/2017
Approved By		03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
IRRIGATION PLAN

Drawing No. LI1
Sheet No. 55 of 79 Total

Mar 15, 2017 - 4:44pm davidb U:\Bothell Main Street\DWG\MAIN-LI.dwg Layout Name: LI-1

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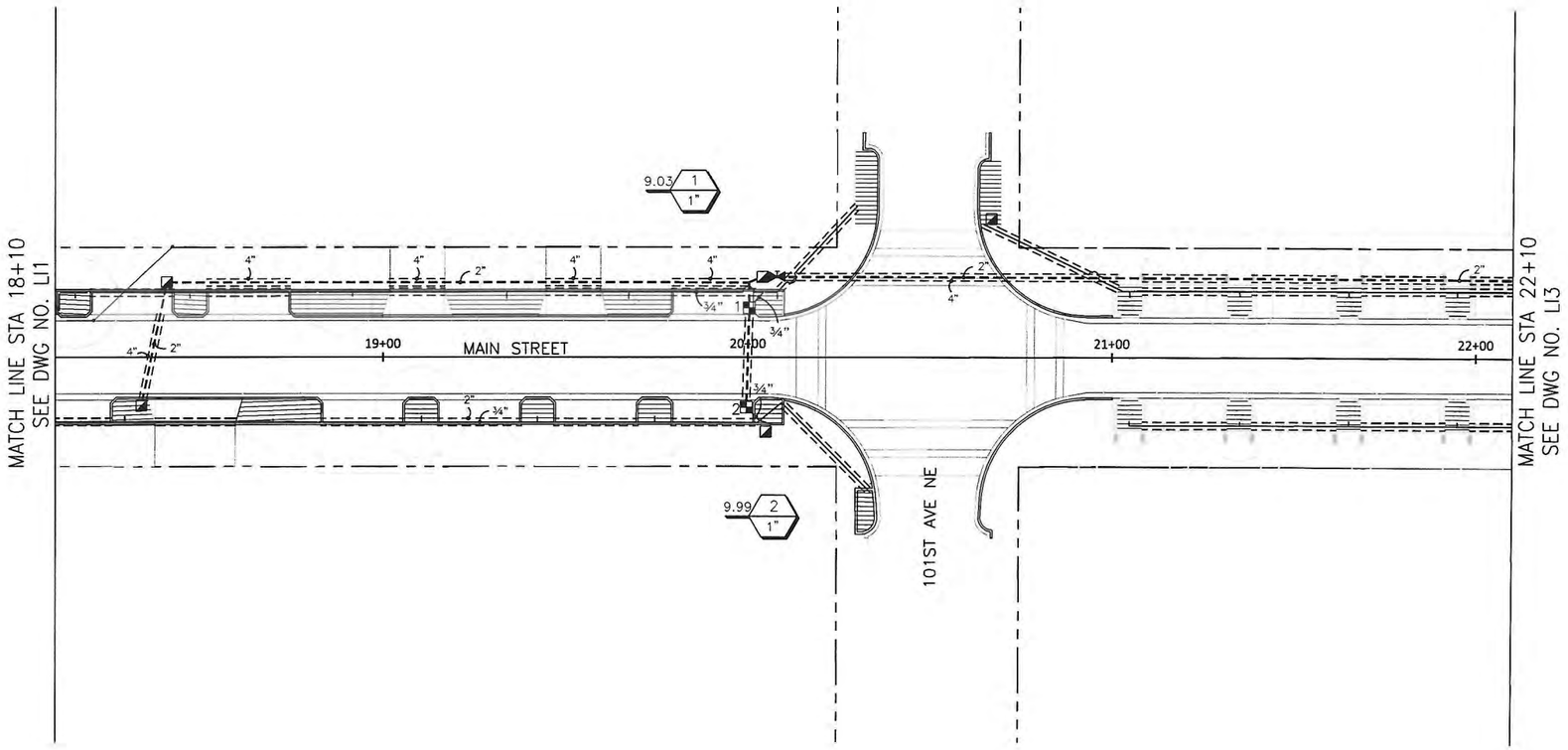

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
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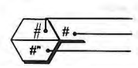

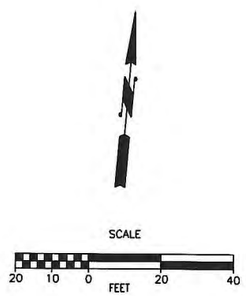

STATE OF WASHINGTON
REGISTERED LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273
3/13/17

CONFORMED PLANS

No.	Date	Revision	By	Appr.

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City of Bothell

CASCADE DESIGN COLLABORATIVE

Drawn By DB	Date 03/13/2017
Designed By ES	03/13/2017
Checked By ES	03/13/2017
Approved By	03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
IRRIGATION PLAN

Drawing No. LI2
Sheet No. 56 / 79 of Total

Mar 15, 2017 - 4:44pm davidb L:\Bothell Main Street\DWG\MAIN-LI.dwg Layout Name: LI-2

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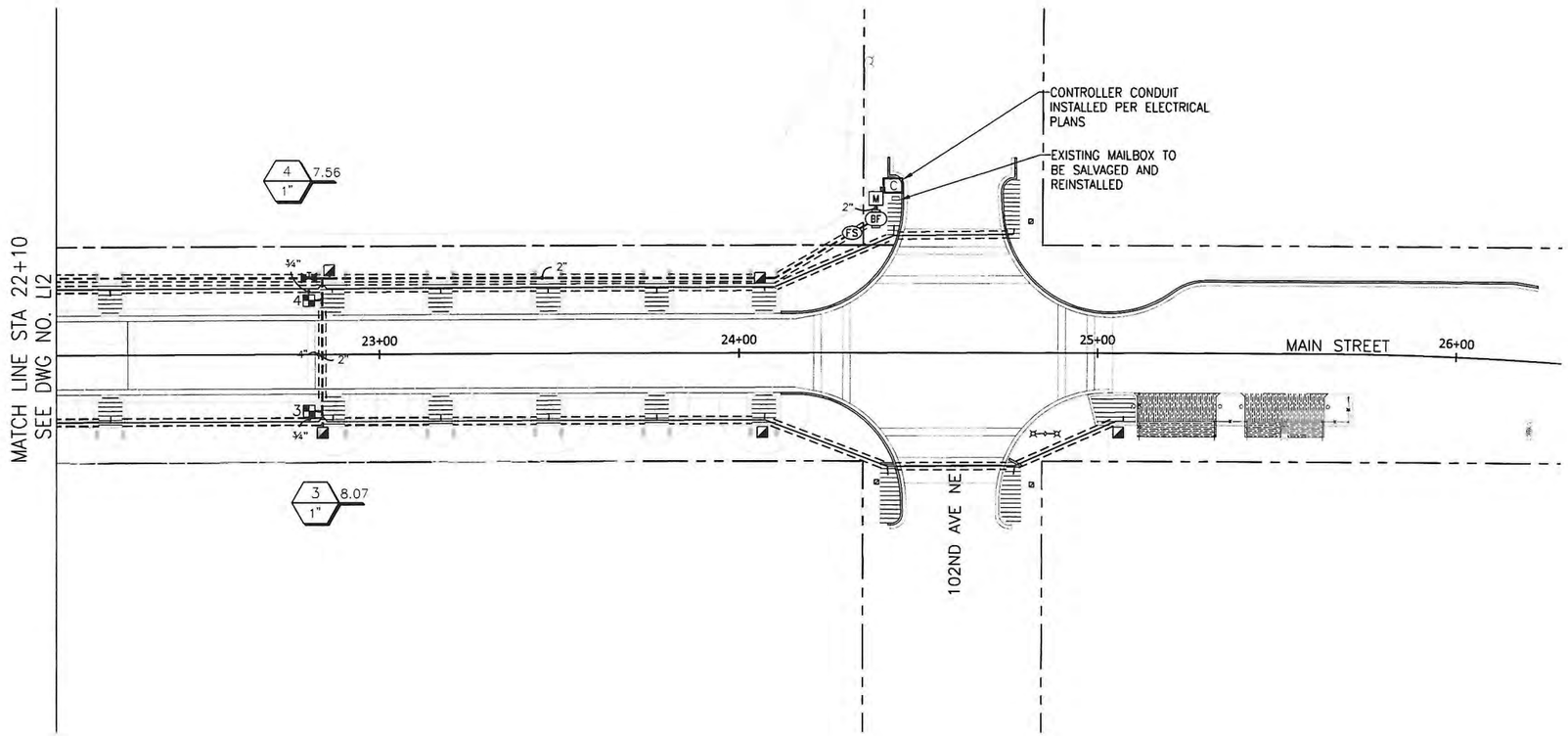

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
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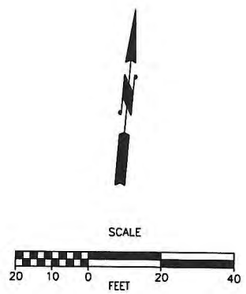

3/13/17

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

CONFORMED PLANS

No.	Date	Revision	By	Appr.

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City of Bothell

CASCADE DESIGN COLLABORATIVE

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Designed By	ES	03/13/2017
Checked By	ES	03/13/2017
Approved By		03/13/2017

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Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
IRRIGATION PLAN

Drawing No. LI3
Sheet No. 57 of 79 Total

Mar 15, 2017 - 4:44pm dawdb U:\Bothell Main Street\DWG\MAIN-LI.dwg Layout Name: LI-3

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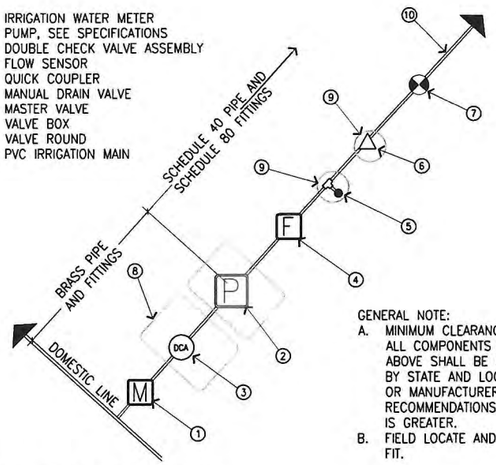
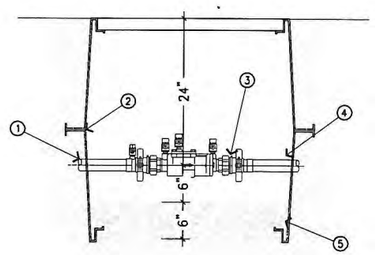
1. IRRIGATION WATER METER
2. PUMP, SEE SPECIFICATIONS
3. DOUBLE CHECK VALVE ASSEMBLY
4. FLOW SENSOR
5. QUICK COUPLER
6. MANUAL DRAIN VALVE
7. MASTER VALVE
8. VALVE BOX
9. VALVE ROUND
10. PVC IRRIGATION MAIN



GENERAL NOTE:
A. MINIMUM CLEARANCES BETWEEN ALL COMPONENTS SHOWN ABOVE SHALL BE GOVERNED BY STATE AND LOCAL CODES, OR MANUFACTURERS RECOMMENDATIONS, WHICHEVER IS GREATER.
B. FIELD LOCATE AND ADJUST TO FIT.

1 POINT OF CONNECTION
SCALE: 1" = 1'-0"

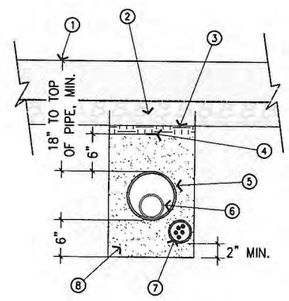
1. LINE INTO DOUBLE CHECK, PER LOCAL CODE
2. DOUBLE VALVE BOXES BOLTED BACK TO BACK
3. BACKFLOW PREVENTER
4. SCH 40 PVC MAINLINE
5. PEA GRAVEL FOR DRAINAGE



2 DOUBLE CHECK VALVE
SCALE: 1" = 1'-0"

1. FINISH GRADE – PAVING
2. PAVING BASE COURSE
3. NATIVE BACKFILL MATERIAL
4. DETECTABLE MARKING TAPE
5. STEEL CASING FOR MAINLINE SLEEVE, SCH. 40 PVC FOR LATERAL LINE SLEEVE
6. MAINLINE OR LATERAL LINE
7. CONTROL WIRING IN CLASS 200 ELECTRICAL CONDUIT, MIN. 1"
8. SAND BACKFILL MATERIAL

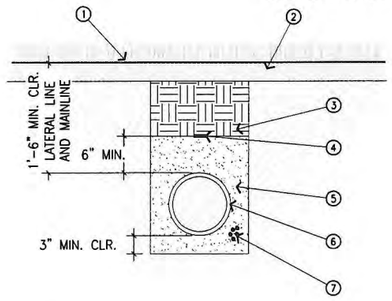
NOTES:
A. ALL IRRIGATION LINES IN THE SAME TRENCH MUST HAVE MINIMUM 3-INCHES CLEAR BETWEEN PARALLEL PIPES.
B. ALL SLEEVES SHALL EXTEND A MINIMUM OF 2-FOOT BEYOND LIMITS OF PAVING.
C. WHERE POSSIBLE, MAINS AND LATERALS OR SECTION PIPING SHALL BE PLACED IN THE SAME TRENCH.
D. ONE LINE PER SLEEVE.



3 SLEEVING
SCALE: 1" = 1'-0"

1. FINISH GRADE
2. PLANTING TOPSOIL – DEPTH VARIES
3. NATIVE BACKFILL MATERIAL
4. DETECTABLE MARKING TAPE
5. BACKFILL SAND MATERIAL (SEC 328000)
6. MAINLINE OR LATERAL LINE
7. CONTROL WIRING

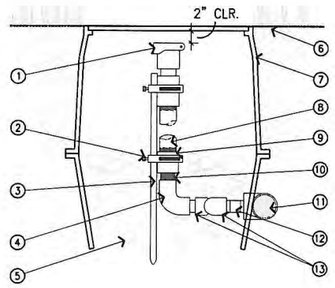
NOTES:
A. ALL IRRIGATION LINES IN THE SAME TRENCH MUST HAVE MINIMUM 3" CLEAR BETWEEN PARALLEL PIPES.
B. ALL SLEEVES SHALL EXTEND A MINIMUM OF 1-FOOT BEYOND LIMITS OF PAVING
C. INSTALL DETECTABLE MARKING TAPE OVER ALL MAINLINES



4 TRENCHING
SCALE: 1" = 1'-0"

1. QUICK COUPLER
2. (2) STAINLESS STEEL WORM GEAR CLAMPS
3. 1-1/2" DIA. STEEL ROD, 30" LENGTH
4. SCH. 40 PVC ELBOW TxT
5. 1 CU. FT. PEA GRAVEL
6. FINISH GRADE
7. DOUBLE VALVE BOXES BOLTED BACK TO BACK
8. SCH 80 PVC NIPPLE TxT LENGTH AS REQUIRED
9. SCH 40 PVC COUPLING TxT
10. SCH 80 PVC NIPPLE TxT
11. SCH 40 MAINLINE FITTING
12. SCH 80 PVC NIPPLE
13. (2) SCH 40 PVC 90 DEGREE STREET ELLS

NOTES:
A. USE TEFLON TAPE ON ALL THREADED CONNECTIONS



5 QUICK COUPLER
SCALE: 1" = 1'-0"

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273
3/31/17

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-9610 FAX: (206) 357-9691

City of Bothell

CASCADE DESIGN COLLABORATIVE

Drawn By DB	Date 03/13/2017	SCALE
Designed By ES	03/13/2017	Horiz
Checked By ES	03/13/2017	Vert
Approved By	03/13/2017	Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
IRRIGATION DETAILS

Drawing No. LI4
Sheet No. 58 of Total 79

Mar 15, 2017 - 4:44pm davidb U:\Bothell Main Street\DWG\MAIN-LI-DT.dwg Layout Name: LI-DT-1

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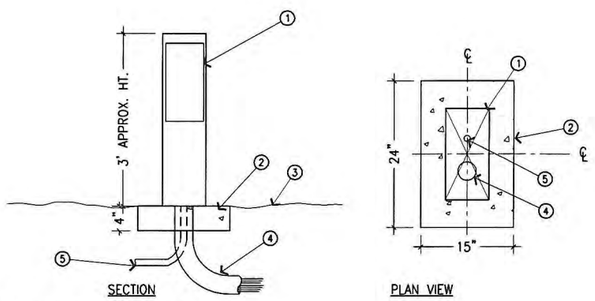
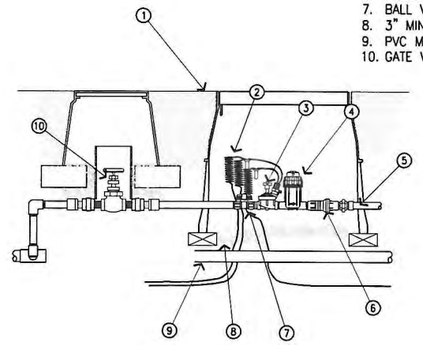
1. CONTROLLER WITH LOCKING ACCESS DOOR
2. CONCRETE FOUNDATION
3. FINISHED GRADE
4. 3" DIA. ELL SWEEP PVC CONDUIT FOR COMMON AND CONTROL WIRE TO 3" BEYOND EDGE OF CONCRETE BASE.
5. 1" DIA PVC CONDUIT FOR 120 VOLT ELECTRICAL SERVICE STUB BY ELECTRICAL CONTRACTOR.

NOTES:
A. CONDUIT FROM POWER SUPPLY, SIZE PER ELECTRICAL.
B. COORDINATE CONDUIT SIZE WITH LANDSCAPE CONTRACTOR.
C. PROVIDE GROUNDING FOR CONTROLLER, PER LOCAL CODE.



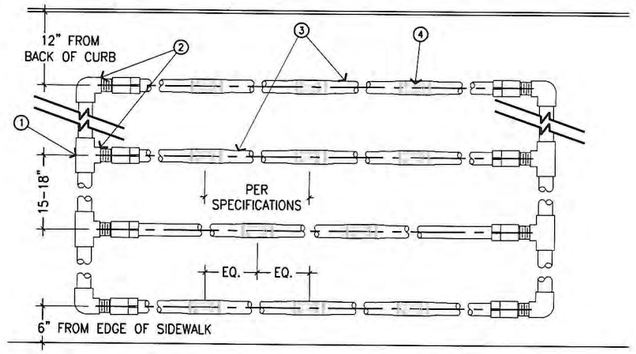
1 CONTROLLER PEDESTAL
SCALE: 1" = 1'-0"

1. FINISH GRADE/TOP OF MULCH
2. CONTROL WIRE, COILED
3. AUTOMATIC VALVE
4. INLINE FILTRATION
5. PVC LATERAL LINE
6. PRESSURE REGULATOR
7. BALL VALVE
8. 3" MIN. 3/4" WASHED GRAVEL
9. PVC MAINLINE
10. GATE VALVE



2 CONTROL ZONE KIT
SCALE: 1" = 1'-0"

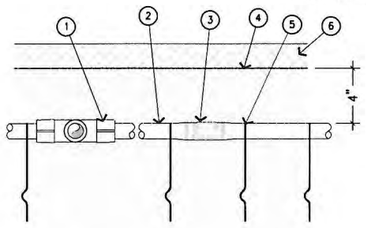
1. PVC HEADER
2. PVC TEE OR ELL
3. LANDSCAPE DRIPLINE
4. INLINE EMITTER



3 DRIPLINE LAYOUT
SCALE: 1" = 1'-0"

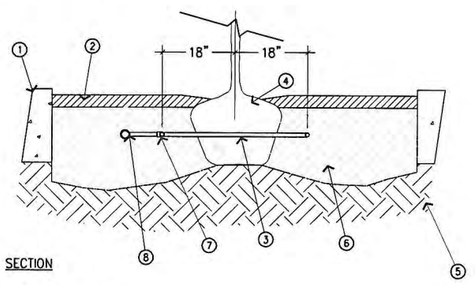
1. EASY FIT COMPRESSION TEE
2. LANDSCAPE DRIPLINE
3. INLINE DRIP EMITTER
4. FINISH SURFACE OF PLANTING SOIL
5. TIE DOWN STAKE
6. TOP MULCH

NOTES:
A. PLACE TIE DOWN STAKES EVERY THREE FEET
B. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.



4 BELOW GRADE DRIPLINE
SCALE: 2" = 1'-0"

1. CEMENT SIDEWALK, SEE CIVIL
2. COMPOST MULCH
3. DRIPLINE WITH INLINE EMITTER - IRRIGATION CONDITION IN BEDS VARIES, SEE PLANS
4. TREE ROOTBALL
5. SUBGRADE
6. PLANTING SOIL
7. DRIPLINE FITTINGS
8. TREE DRIPLINE PVC LATERAL LINE



5 TREE DRIP RING
SCALE: 1" = 1'-0"

STATE OF WASHINGTON
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LANDSCAPE ARCHITECT
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CERTIFICATE NO. 273

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Approved By	03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
IRRIGATION DETAILS

Drawing No. LI5
Sheet No. 59 of Total 79

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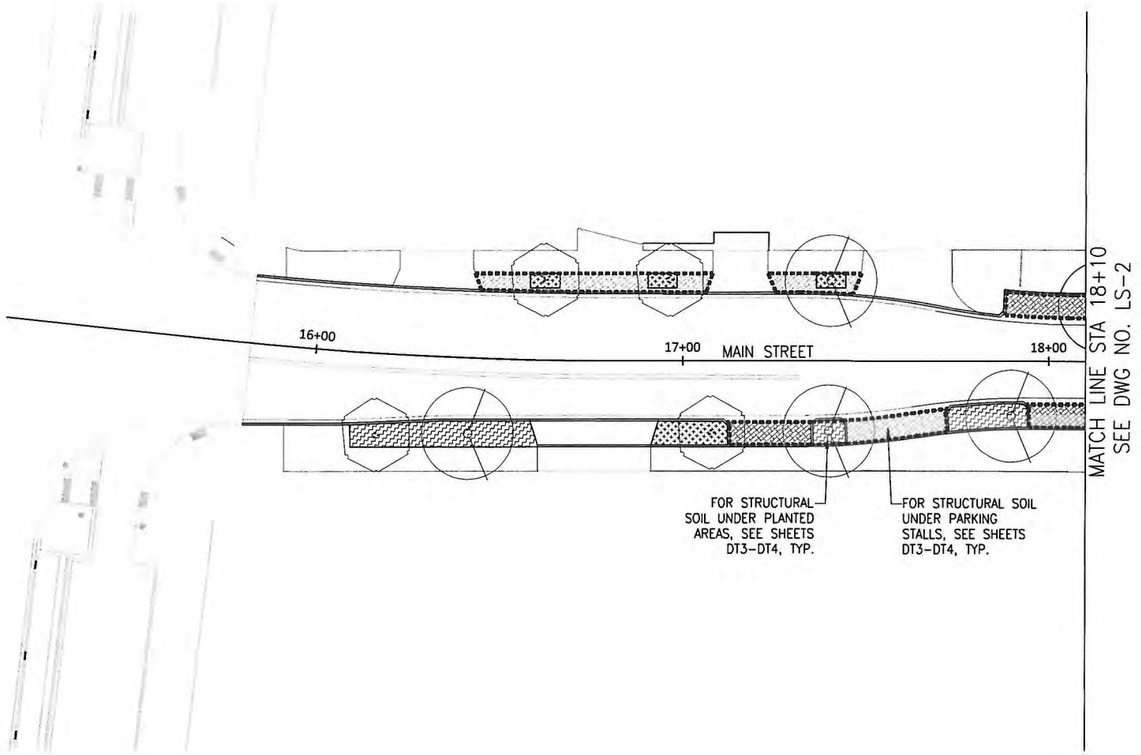

LEGEND

- SUBGRADE PREPARATION INCLUSIVE OF 2.5" COMPOST, 18" TOPSOIL TYPE A, 3" TOP MULCH
- 18" TOPSOIL TYPE A, 3" TOP MULCH, STRUCTURAL SOIL BENEATH. NO SUBGRADE PREPARATION
- STRUCTURAL SOIL EXTENTS: 24" DEPTH UNDER PAVERS, SEE DETAILS FOR PLANTER AREA DEPTHS

GENERAL NOTES

1. SEE DT SHEETS FOR STRUCTURAL SOIL DETAILS.
2. SEE PLANTING DETAILS FOR SUBGRADE PREP AND ADDITIONAL DETAILS.
3. STRUCTURAL SOIL IS CONTINUOUS UNDER TREE PITS AND UNDER PARKING STALLS.
4. STRUCTURAL SOIL UNDER PARKING STALLS SHALL BE A MINIMUM DEPTH OF 2'.
5. STRUCTURAL SOIL UNDER IDENTIFIED PLANTED AREAS SHALL HAVE AN APPROXIMATE DEPTH OF 1'.

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CERTIFICATE NO. 273
3/13/17

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CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
SOILS PLAN

Drawing No. LS1
Sheet No. 60 of Total 79

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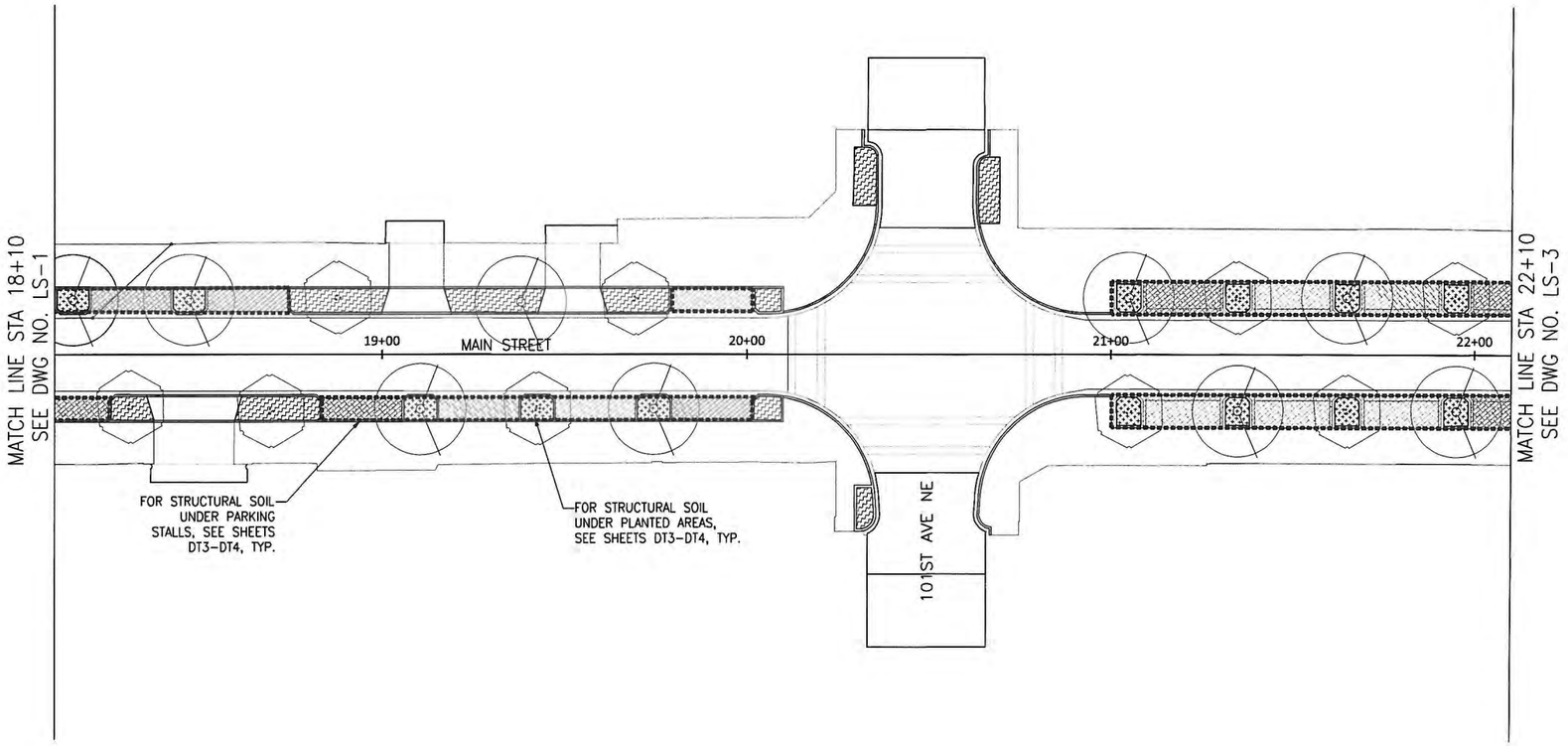

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STATE OF WASHINGTON
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CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
SOILS PLAN

Drawing No. LS2
Sheet No. 61 / 79 of Total

Mar 15, 2017 - 4:45pm davidb U:\Bothell Main Street\DWG\MAIN-LS.dwg Layout Name: LS-2

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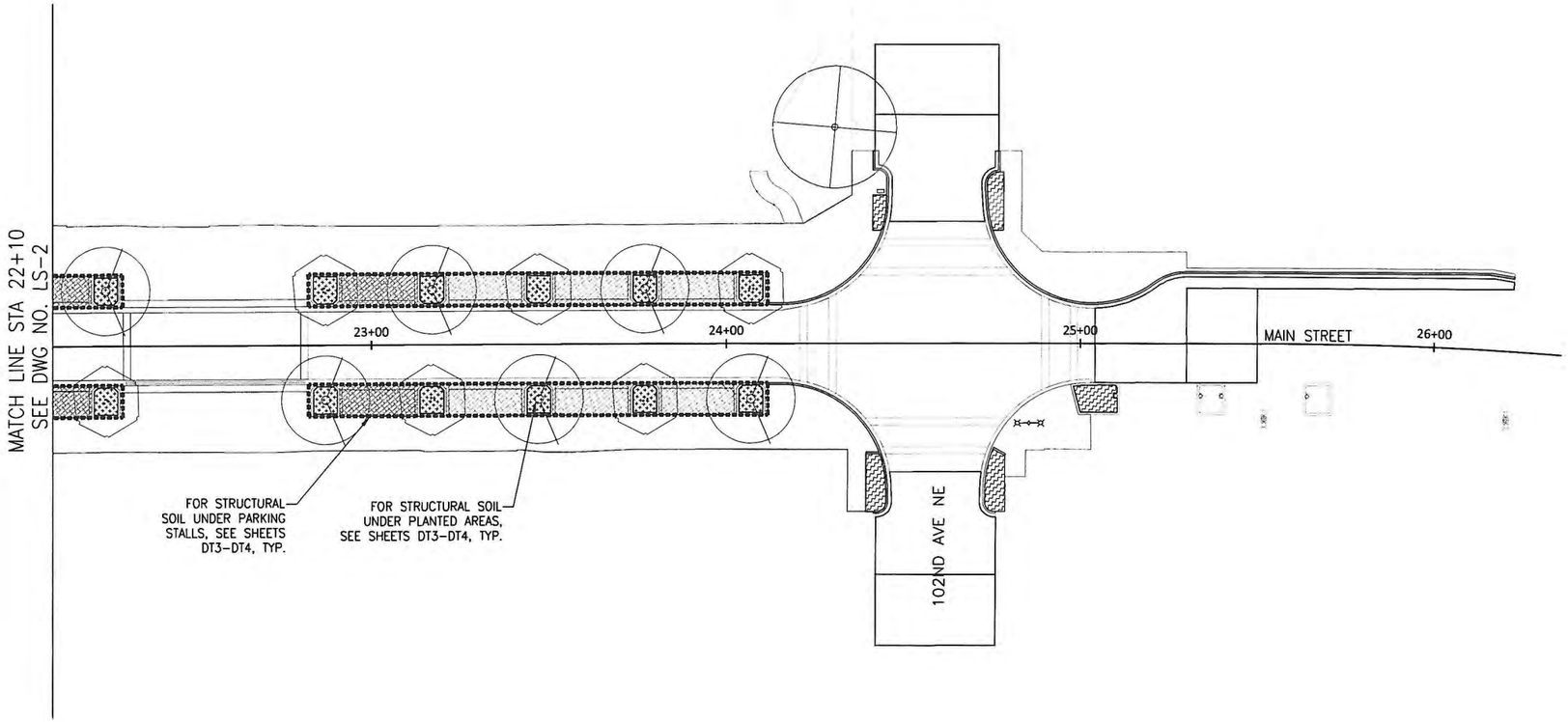

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- 18" TOPSOIL TYPE A, 3" TOP MULCH, STRUCTURAL SOIL BENEATH. NO SUBGRADE PREPARATION
- STRUCTURAL SOIL EXTENTS: 24" DEPTH UNDER PAVERS, SEE DETAILS FOR PLANTER AREA DEPTHS

GENERAL NOTES

1. SEE DT SHEETS FOR STRUCTURAL SOIL DETAILS.
2. SEE PLANTING DETAILS FOR SUBGRADE PREP AND ADDITIONAL DETAILS.
3. STRUCTURAL SOIL IS CONTINUOUS UNDER TREE PITS AND UNDER PARKING STALLS.
4. STRUCTURAL SOIL UNDER PARKING STALLS SHALL BE A MINIMUM DEPTH OF 2'.
5. STRUCTURAL SOIL UNDER IDENTIFIED PLANTED AREAS SHALL HAVE AN APPROXIMATE DEPTH OF 1'.

SCALE
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FEET

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CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
SOILS PLAN

Drawing No. LS3
Sheet No. 62 of Total 79

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PLANTING NOTES:

1. PRE-CONSTRUCTION MEETING REQUIRED PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS TO REVIEW CONDITIONS AND IDENTIFY COORDINATION REQUIREMENTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARITY WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES. VERIFY ALL UTILITY LOCATIONS, PADS, AND APPURTENANCES PRIOR TO PLANTING ACTIVITY. DO NOT BLOCK ACCESS TO UTILITY STRUCTURES. IDENTIFY DISCREPANCIES IMMEDIATELY TO LANDSCAPE ARCHITECT.
3. ESTABLISH SUB-GRADE ELEVATIONS THAT WILL ACCOMMODATE FULL PLANTING SOIL DEPTHS SHOWN ON SOIL DEPTHS PLAN AND IN SPECIFICATIONS. ACCOMMODATE DEPTHS TO ALLOW FOR COMPOST ADDED FOR SUBGRADE PREPARATION AND SUBGRADE OPERATIONS.
4. SUB-GRADE PREPARATION FOR PLANTING BEDS AND SEEDED AREAS SHALL BE AS FOLLOWS:
   A. RIP SUB-GRADE TO A DEPTH OF 12"
   B. REMOVE COBBLES, ROCKS, CONCRETE, ASPHALT AND OTHER DEBRIS OVER 1" IN DIA.
   C. TILL IN 2.5 INCHES OF ORGANIC COMPOST INTO THE SUB-GRADE TO A DEPTH OF EIGHT (8) INCHES. TILLING THE COMPOST INTO THE SOIL SHALL BE ACCOMPLISHED BY TILLING IT TWICE, THE SECOND TIME PERPENDICULAR TO THE FIRST.
5. ALL LANDSCAPE AREAS SHALL RECEIVE DEPTH OF PREPARED PLANTING SOIL PER SPECIAL PROVISIONS AND SOIL DEPTHS PLAN. PLANTING SOIL SHALL BE PLACED IN TWO EQUAL LIFTS. THE FIRST LIFT SHALL BE ROTOTILLED INTO PREPARED SUBGRADE TO A MINIMUM 8" DEPTH. ALL AREAS SHALL BE FINAL GRADED TO AVOID HIGH OR LOW SPOTS, AND PROVIDE POSITIVE DRAINAGE.
6. ALL PLANT MATERIAL SHALL BE NURSERY GROWN (NOT FIELD COLLECTED), CONTAINERIZED OR BALLED AND BURLAPPED. PROVIDE ONLY SOUND, HEALTHY, VIGOROUS PLANTS, FREE OF DEFECTS, DISEASE, AND ALL FORMS OF INFESTATION. MEASUREMENTS, CALIPER, BRANCHING, GRADING QUALITY, BALLING AND BURLAPPING PLANT MATERIAL SHALL CONFORM TO MINIMUM STANDARDS OF ANSI Z60.1, LATEST EDITION.
7. ALL CONTAINER GROWN NURSERY STOCK SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED, AND ESTABLISHED IN THE CONTAINER IN WHICH IT IS GROWING. CONTAINER GROWN NURSERY STOCK SHALL HAVE A WELL-ESTABLISHED ROOT SYSTEM REACHING THE SIDES OF THE CONTAINER TO MAINTAIN A FIRM BALL WHEN THE CONTAINER IS REMOVED, BUT SHALL NOT HAVE EXCESSIVE ROOT GROWTH ENCIRCLING THE INSIDE OF THE CONTAINER.
8. PRIOR TO INSTALLATION, ALL PLANT MATERIAL PROPOSED FOR USE ON THE PROJECT SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AT THE TIME OF DELIVERY TO THE SITE FOR CONFORMANCE WITH THE REQUIREMENTS OF THE PLANT SCHEDULE, PLANT SPECIFICATIONS, AND STORAGE AND HANDLING REQUIREMENTS. CONTRACTOR IS TO PROVIDE A MINIMUM OF TWO WEEKS NOTICE PRIOR TO DELIVERY TO THE LANDSCAPE ARCHITECT.
9. LAYOUT OF PLANTING BEDS AND PLACEMENT OF TREES, SHRUBS, GROUNDCOVERS, SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
10. TREES SHALL BE PLACED FIRST, THEN SHRUBS, AND THEN GROUNDCOVERS. TREES SHALL BE STAKED OR GUYED PER DETAILS WITHIN 24 HOURS OF INSTALLATION. TREE TRUNKS SHALL BE LOCATED NO CLOSER THAN 15' FROM BUILDING WALLS, SHRUBS SHALL BE LOCATED SO THAT AT MATURITY THERE WILL BE A MINIMUM 3' CLEAR TO BUILDING WALL.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COMPLETE PLANT COUNTS TO COVER AREAS AT THE SPECIFIED SPACING.
12. STREET TREES SHALL BE INSTALLED IN COMPLIANCE WITH CITY PLANTING PROCEDURES. TREES MUST BE LOCATED A MINIMUM OF 24" INCHES FROM FACE OF CURB, 5 FEET FROM UNDERGROUND UTILITY LINES. CONTRACTOR MUST CALL (1-800-424-5555) 72 HOURS IN ADVANCE FOR UNDERGROUND UTILITY LOCATIONS.
13. DURING INSTALLATION NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONDITIONS THAT MAY BE HARMFUL TO PLANT LIFE SUCH AS; POOR DRAINAGE, HAZARDOUS MATERIALS, ETC. MAKE RECOMMENDATIONS TO ADDRESS THE SPECIFIC SITUATION IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
14. UPON COMPLETION OF PLANT INSTALLATION, APPLY TOP MULCH TO ALL PLANTING BEDS AND TREE PITS. TREE AND SHRUB AREAS SHALL RECEIVE THREE (3) INCHES AND GROUNDCOVER AREAS SHALL RECEIVE TWO (2) INCHES OF TOP MULCH. FINELY GRADE MULCH AWAY FROM TREE TRUNKS AND SHRUB STEMS. DO NOT PLACE MULCH DIRECTLY AGAINST TREE TRUNKS OR STEMS. MATCH FINISH SURFACE OF TOP MULCH WITH ADJACENT FINISH GRADES. SEE NOTE BELOW FOR REQUIREMENTS FOR SECOND MULCH APPLICATION.
15. FINISH GRADE (TOP OF MULCH) IN PLANTING BEDS AND FINISH GRADE OF TURF SHALL BE 1/2" BELOW TOP OF HEADER, WALL, CURB, OR FINISHED SURFACE OF ADJACENT WALK OR PAVED AREAS.
16. ALL AREAS OF BARE SOIL, OR AREAS IMPACTED BY VEHICULAR USE OF ANY KIND, OR STORAGE OF MATERIALS OUTSIDE OF THE CLEARING LIMITS SHALL RECEIVE FULL SUBGRADE PREPARATION, INCLUDING COMPOST AMENDMENTS AND SHALL RE-ESTABLISH FINAL DESIGN CONDITION AND SHALL BE AT CONTRACTOR'S COST.
17. THE CONTRACTOR SHALL BEGIN MAINTENANCE IMMEDIATELY FOLLOWING INSTALLATION. THE CONTRACTOR SHALL MAINTAIN THE PLANTED AREAS FOR THE LENGTH OF TIME SPECIFIED IN PLANTS SPECIFICATIONS SECTION AFTER ACHIEVING COMPLETION OF PLANTING. SUBMIT MONTHLY WRITTEN REPORT OF MAINTENANCE ACTIVITIES.
18. PLANT ESTABLISHMENT PROCEDURES SHALL INCLUDE WATERING, PROTECTION FROM INSECTS OR DISEASE, WEEDING, PRUNING, MOWING, AND OTHER ACTIVITIES AS MAY BE REQUIRED AND AS IDENTIFIED IN SPECIAL PROVISIONS. CONTRACTOR SHALL IMMEDIATELY REPLACE ANY PLANT MATERIALS THAT ARE NOT VIGOROUS OR TYPICAL OF SIZE AND SPECIES. TREE STAKES SHALL BE KEPT SECURE AT ALL TIMES. DEFECTIVE MATERIALS AS DETERMINED BY THE LANDSCAPE ARCHITECT SHALL BE REPLACED IMMEDIATELY WITH PLANT MATERIALS OF THE SAME SPECIES AT A SIZE TO MATCH EXISTING ADJACENT MATERIALS.
19. UPON COMPLETION OF THE WARRANTY/PLANT ESTABLISHMENT PERIOD, APPLY BARK MULCH (PER SPECIAL PROVISIONS) TO ALL PLANTED AREAS EXCEPT FOR THE RAINGARDEN/BIORETENTION AREAS. RAINGARDENS/BIORETENTION AREAS SHALL RECEIVE COMPOST MULCH PER SPECIAL PROVISIONS.
20. UPON COMPLETION OF THE WARRANTY PERIOD, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR FINAL INSPECTION TO THE LANDSCAPE ARCHITECT. AN INSPECTION SHALL BE CONDUCTED WITH THE LANDSCAPE ARCHITECT AND THE CONTRACTOR PRESENT, AND FOLLOWING REPLACEMENT OR REPAIR OF DEFICIENT ITEMS NOTED IN THE INSPECTION. A NOTIFICATION OF ACCEPTANCE OF ALL WORK SHALL BE ISSUED BY THE LANDSCAPE ARCHITECT TO THE CONTRACTOR.

PLANT SCHEDULE

2016-12-12 15:04

TREES	CODE	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING
	CJ	Cercidiphyllum japonicum	Katsura Tree (Male tree)	B & B	3" cal Branch at 6-8' MATCHED SET	As Shown
	GB	Ginkgo biloba 'Magyar'	Magyar Ginkgo (Male tree)	B & B	3" cal Branch at 6-8' MATCHED SET	As Shown
SHRUBS	**CODE**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SIZE**	**SPACING**
	GS	Gaultheria shallon	Salal	#1	9"h	As Shown
	LA	Lavandula angustifolia 'Hidcote Blue'	Hidcote Blue Lavender	#1	12"h x 12"w	As Shown
	LP	Lonicera pileata	Privet Honeysuckle	#2	15"h x 15"w	36" O.C.
	MS	Miscanthus sinensis 'Yaku Jima'	Yaku Jima Dwarf Maiden Grass	#1	12"h x 12"w	As Shown

GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING	QTY
	GM	Geranium macrorrhizum 'Album'	Bigroot Geranium	#1	12"h x 12"w	12" O.C.	664
	LM	Liriope muscari 'Big Blue'	Big Blue Lilyturf	#1	12"h	12" O.C.	496
	SB	Stachys byzantina 'Silver Carpet'	Lamb's Ears	#1	6"h x 12"w	12" O.C.	765

CONTAINER PLANTERS	CODE	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING
NOT SHOWN	HG	HEUCHERA X 'GREEN SPICE'	GREEN SPICE HEUCHERA	#1	12"h	2 PER CONTAINER PLANTER

NOTES:

1. ALL TREES TO BE "STREET TREE GRADE" PER WSDOT 9-14.6(2).
2. ALL TREES TO BE MALE.
3. SEE LP-2 - LP-4 FOR ADDITIONAL NOTES.

3/13/17

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

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CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
PLANTING SCHEDULE

Drawing No. LP1
Sheet No. 63 of 79 Total

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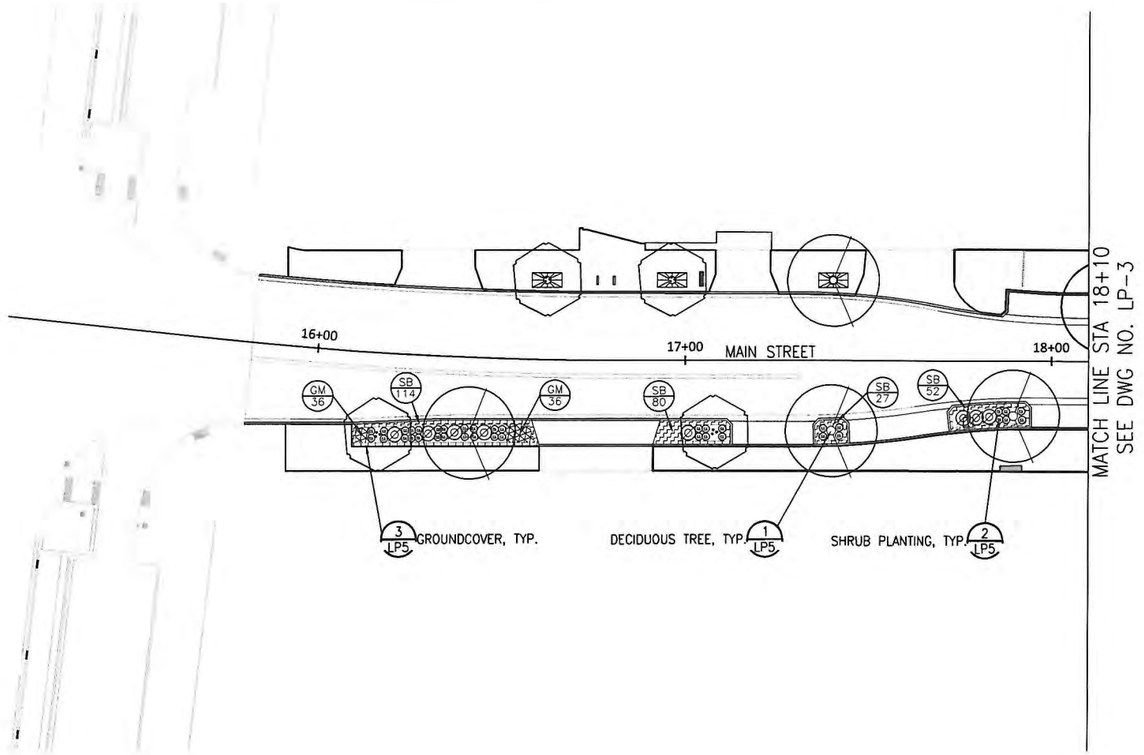

LEGEND

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TREES	CODE	BOTANICAL NAME	COMMON NAME
	CJ	Cercidiphyllum japonicum	Katsura Tree
	GB	Ginkgo biloba 'Magyar'	Magyar Ginkgo
SHRUBS	**CODE**	**BOTANICAL NAME**	**COMMON NAME**
	GS	Gaultheria shallon	Salal
	LA	Lavandula angustifolia 'Hidcote Blue'	Hidcote Blue Lavender
	LP	Lonicera pileata	Privet Honeysuckle
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	GM	Geranium macrorrhizum 'Album'	Bigroot Geranium
	LM	Liriope muscari 'Big Blue'	Big Blue Lilyturf
	SB	Stachys byzantina 'Silver Carpet'	Lamb's Ears

NOTES:

1. TOTAL PROJECT PLANT QUANTITIES FOR TREES, SHRUBS, GROUNDCOVERS, AND CONTAINER PLANTS ARE PROVIDED ON PLANT SCHEDULE, SEE LP1.
2. PLANT QUANTITIES FOR GROUNDCOVER AREAS ONLY ARE PROVIDED ON EACH PLANTING PLAN.
3. CONTRACTOR IS RESPONSIBLE FOR FINAL COMPLETE PLANT COUNTS TO COVER AREAS AT THE SPECIFIED SPACING.
4. SEE LP-1 FOR ALL GENERAL PLANTING NOTES AND ADDITIONAL SCHEDULE NOTES.

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3/13/17

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1600
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5610

City of Bothell

CASCADE DESIGN COLLABORATIVE

Drawn By	DB	Date 03/13/2017
Designed By	ES	03/13/2017
Checked By	ES	03/13/2017
Approved By		03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
PLANTING PLAN

Drawing No. LP2
Sheet No. 64 of Total 79

Mar 15, 2017 - 4:45pm davidb U:\Bothell Main Street\DWG\MAIN-LP.dwg Layout Name: LP-2

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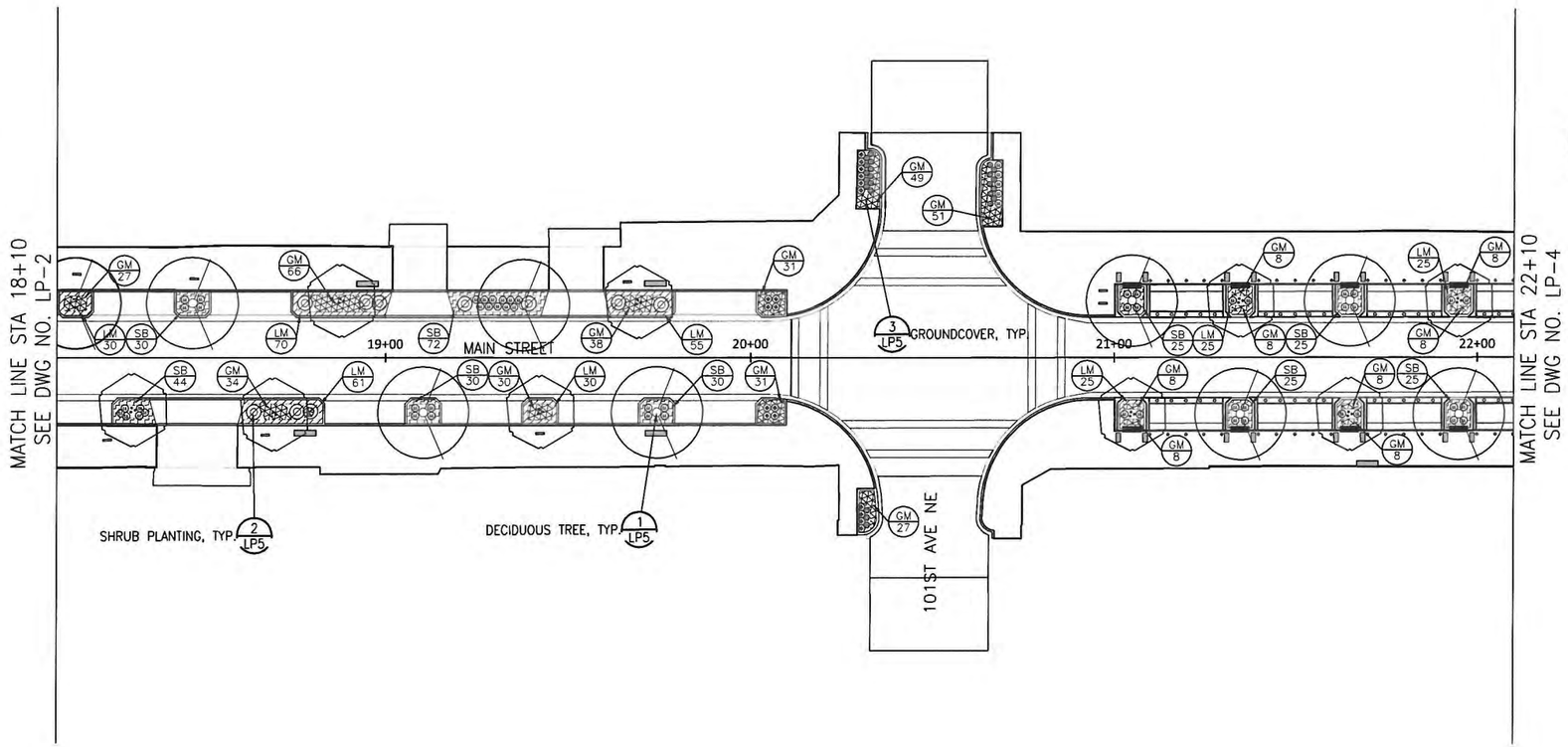

LEGEND

2017-01-09 16:44

TREES	CODE	BOTANICAL NAME	COMMON NAME
	CJ	Cercidiphyllum japonicum	Katsura Tree
	GB	Ginkgo biloba 'Magyar'	Magyar Ginkgo
SHRUBS	**CODE**	**BOTANICAL NAME**	**COMMON NAME**
	GS	Gaultheria shallon	Salal
	LA	Lavandula angustifolia 'Hidcote Blue'	Hidcote Blue Lavender
	LP	Lonicera pileata	Privet Honeysuckle
	MS	Miscanthus sinensis 'Yaku Jima'	Yaku Jima Dwarf Maiden Grass
GROUND COVERS	**CODE**	**BOTANICAL NAME**	**COMMON NAME**
	GM	Geranium macrorrhizum 'Album'	Bigroot Geronium
	LM	Liriope muscari 'Big Blue'	Big Blue Lilyturf
	SB	Stachys byzantina 'Silver Carpet'	Lamb's Ears

NOTES:

1. TOTAL PROJECT PLANT QUANTITIES FOR TREES, SHRUBS, GROUNDCOVERS, AND CONTAINER PLANTS ARE PROVIDED ON PLANT SCHEDULE, SEE LP1.
2. PLANT QUANTITIES FOR GROUNDCOVER AREAS ONLY ARE PROVIDED ON EACH PLANTING PLAN.
3. CONTRACTOR IS RESPONSIBLE FOR FINAL COMPLETE PLANT COUNTS TO COVER AREAS AT THE SPECIFIED SPACING.
4. SEE LP-1 FOR ALL GENERAL PLANTING NOTES AND ADDITIONAL SCHEDULE NOTES.

SCALE
20 10 0 20 40
FEET

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
CERTIFICATE NO. 273
3/13/17

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Drawn By DB	Date 03/13/2017
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Approved By	03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
PLANTING PLAN

Drawing No. LP3
Sheet No. 65 of Total 79

Mar 15, 2017 - 4:45pm davidb U:\Bothell Main Street\DWG\MAIN-LP.dwg Layout Name: LP-3

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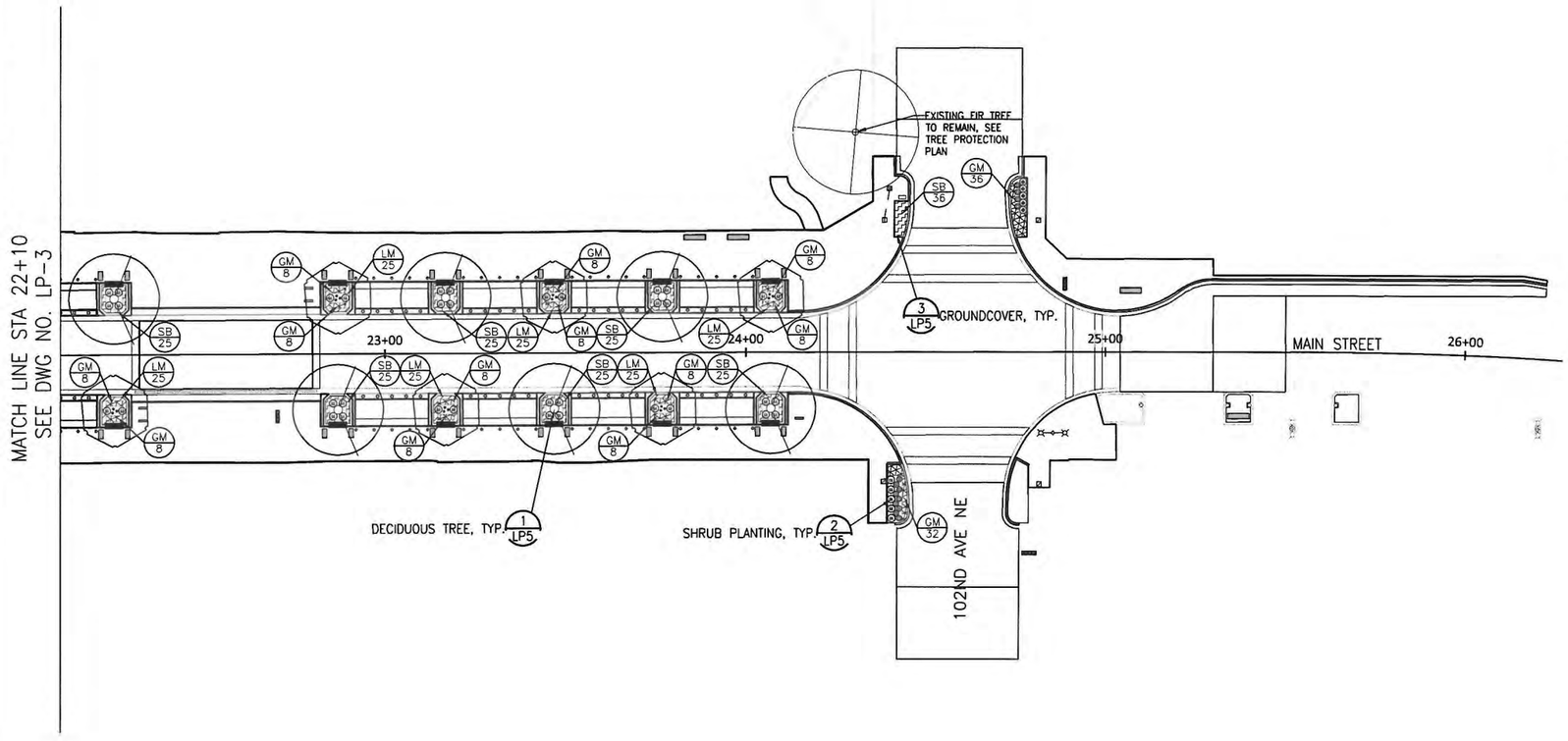

LEGEND

2017-01-09 16:44

TREES	CODE	BOTANICAL NAME	COMMON NAME
	CJ	Cercidiphyllum japonicum	Katsura Tree
	GB	Ginkgo biloba 'Magyar'	Magyar Ginkgo
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	LA	Lavandula angustifolia 'Hidcote Blue'	Hidcote Blue Lavender
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GROUND COVERS	**CODE**	**BOTANICAL NAME**	**COMMON NAME**
	GM	Geranium macrorrhizum 'Album'	Bigroot Geranium
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NOTES:

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3. CONTRACTOR IS RESPONSIBLE FOR FINAL COMPLETE PLANT COUNTS TO COVER AREAS AT THE SPECIFIED SPACING.
4. SEE LP-1 FOR ALL GENERAL PLANTING NOTES AND ADDITIONAL SCHEDULE NOTES.

SCALE
20 10 0 20 40
FEET

3/13/17

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SCALE
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Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
PLANTING PLAN

Drawing No. LP4
Sheet No. 66 of 79 Total

Mar 15, 2017 - 4:45pm davidb U:\Bothell Main Street\DWG\MAIN-LP.dwg Layout Name: LP-4

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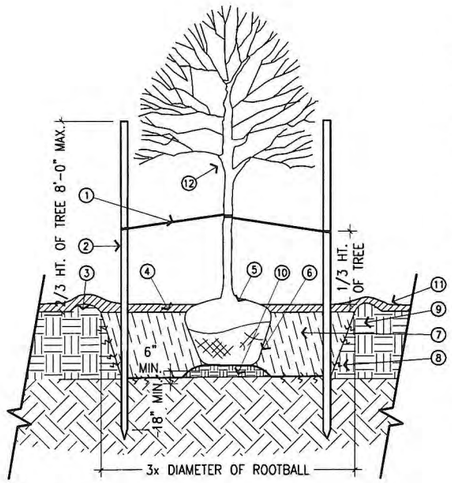
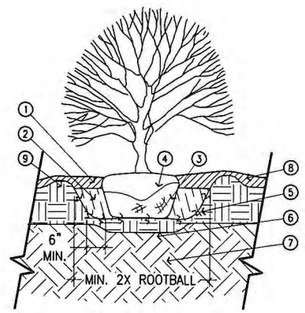


1. GUY TRUNK TO STAKE PER SPECIFICATIONS.
2. 2" X 2" X 10' PRE-STAINED STAKE. CUT TOP OF STAKE.
3. 6" BERM.
4. 3" MIN. TOP MULCH LAYER -- DO NOT PLACE MULCH DIRECTLY AGAINST TREE TRUNK.
5. SET SO ROOT FLARE OR FIRST ROOT IS 1" ABOVE FINISHED GRADE.
6. REMOVE BURLAP AND WIRE BASKET.
7. BACKFILL WITH TOPSOIL TYPE B. WATER SETTLE SOIL AFTER PLANTING.
8. ROUGHEN SIDES AND BOTTOM OF THE HOLE.
9. PREPARED SUBGRADE AND TOPSOIL TYPE B PER SPECIFICATIONS.
10. RETAIN UNDISTURBED NATIVE SOIL OR COMPACT PREPARED SUBGRADE FOR FIRM BASE.
11. WHEN PLANTING TREES WITHIN PLANTING BED, EXTEND COMPOST MULCH TO EDGE OF BED.
12. BRANCHING HEIGHT PER PLANT SCHEDULE.

NOTE
A. DO NOT PLANT IN WET CONDITIONS. PROVIDE DRAINAGE FROM EACH PLANTING PIT IF NECESSARY.
B. PHOTOGRAPH PLANTING PIT WITH BURLAP, WIRE, ETC. LAID FLAT AT BOTTOM OF PIT.

1 DECIDUOUS TREE
SCALE: 1" = 1'-0"



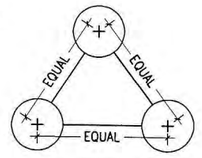
1. 3" MIN. TOP MULCH - FEATHER BACK FROM STEM.
2. PREPARED TOPSOIL TYPE B.
3. REMOVE BURLAP.
4. SET WITH FIRST ROOT EMERGING FROM MAIN STEM 1" ABOVE FINISHED GRADE.
5. ROUGHEN SIDES AND BOTTOM OF HOLE.
6. COMPACT SOIL FOR FIRM BASE.
7. PREPARED SUBGRADE AND TOPSOIL TYPE B PER DETAIL #4 THIS SHEET.
8. WHEN PLANTING SHRUBS WITHIN PLANTING BED, EXTEND COMPOST MULCH TO EDGE OF BED.
9. 6" X 6" BERM AROUND PLANTING PIT.

NOTE
A. DO NOT PLANT IN WET CONDITIONS, PROVIDE DRAINAGE FROM EACH PLANTING PIT IF NECESSARY.
B. SPACING TO BE TRIANGULAR UNLESS SHOWN OTHERWISE.

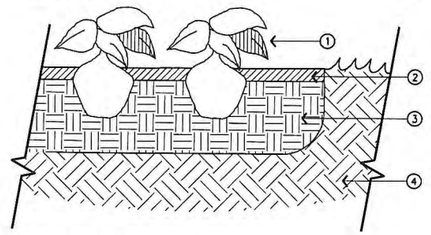
2 SHRUB PLANTING
SCALE: 1" = 1'-0"

1. SPACE GROUNDCOVER AS INDICATED ON PLANTING PLAN, TRIANGULAR SPACING.
2. 3" TOP MULCH, DEPTH PER SPECIAL PROVISIONS.
3. PREPARED SUBGRADE, DEPTH PER SPECIAL PROVISIONS. ROTOTILLED FIRST LIFT OF TOPSOIL TYPE B INTO PREPARED SUBGRADE.
4. UNDISTURBED SUBGRADE.

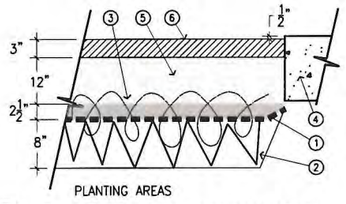
NOTE
A. DO NOT PLANT IN WET CONDITIONS. PROVIDE DRAINAGE FROM EACH PLANTING PIT IF NECESSARY.



TRIANGULAR SPACING
NOT TO SCALE



3 GROUNDCOVER
SCALE: 1" = 1'-0"



1. SUBGRADE LEVEL, MAX. 1:1 SLOPE. DEPTH OF EXCAVATION TO ACCOMMODATE COMPOST AND SOIL DEPTHS.
2. RIP SUBGRADE TO 8" MIN. DEPTH.
3. TILL OR RIP IN 2.5" COARSE COMPOST TO 6" DEPTH OF RIPPED SUBGRADE.
4. CEMENT CONCRETE CURB OR SIDEWALK WHERE OCCURS.
5. PLANTING SOIL 18", SEE SOILS PLAN. INSTALL IN A MINIMUM OF 2 LIFTS. 1ST LIFT TILLED INTO PREPARED SUBGRADE.
6. PLANTING AREA TOP MULCH

NOTES:
A. AT END OF WARRANTY, SUPPLEMENT TOP MULCH TO ACHIEVE FINAL TOTAL DEPTH OF 3" TOP MULCH.
B. FINISH SURFACE OF MULCH TO BE ½" BELOW ADJACENT PAVEMENT.

4 PLANTING AREA PREPARATION
SCALE: 1" = 1'-0"

3/13/17

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC PAUL SCHMIDT
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CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
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(206) 957-5600 FAX: (206) 957-5601

City of Bothell

CASCADE DESIGN COLLABORATIVE

Drawn By DB	Date 03/13/2017
Designed By ES	03/13/2017
Checked By ES	03/13/2017
Approved By	03/13/2017

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
STA 21+18 TO STA 24+02
PLANTING DETAILS

Drawing No. LP5
Sheet No. 67 / 79 of Total

Mar 15, 2017 - 4:45pm davidb U:\Bothell Main Street\DWGMAIN-LP-DT.dwg Layout Name: LP-DT-1

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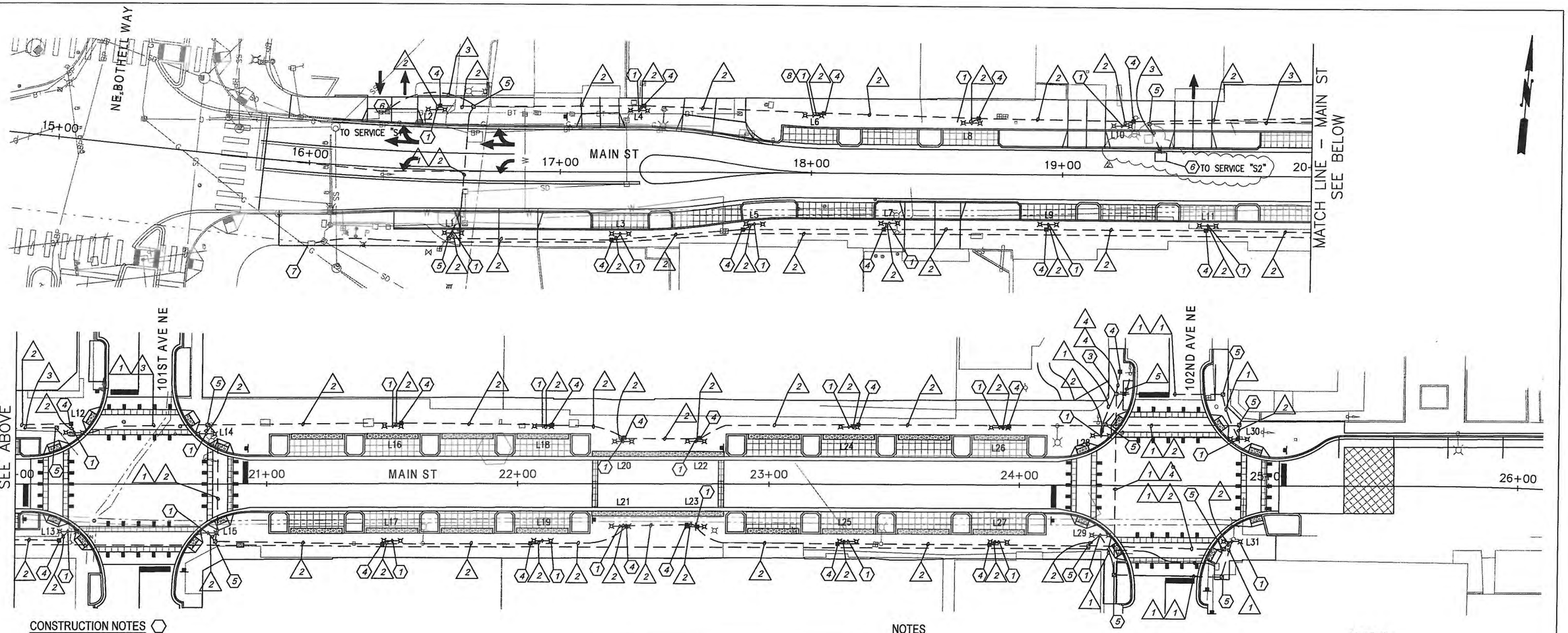

CONSTRUCTION NOTES

1. CONSTRUCT PEDESTRIAN LUMINAIRE POLE FOUNDATION PER CITY OF BOTHELL STANDARD DETAIL D310. FURNISH AND INSTALL DECORATIVE TWIN HEAD PEDESTRIAN LED LUMINAIRE, POLE, RECEPTACLES, BASE, ATTACHMENTS, AND ALL ASSOCIATED CONDUIT/WIRING. TWIN HEAD POST TOP WITH YOKE STYLE MOUNTING. MOUNTING OF LIGHT FIXTURE AT 16 FEET. FIXTURE IS MANUFACTURED BY LUMEC, PRODUCT# RNS20–35W32LED3K–T–ACDR–LE3–240–DMG–YM–CLRC–SCRAL9004TX (36W LED FIXTURE WITH TYPE 3 DISTRIBUTION).
2. NOT USED.
3. FURNISH AND INSTALL NEW TYPE 8 JUNCTION BOX.
4. FURNISH AND INSTALL NEW TYPE 1 JUNCTION BOX PER WSDOT STD PLAN J–40.10–03.
5. FURNISH AND INSTALL NEW TYPE 2 JUNCTION BOX PER WSDOT STD PLAN J–40.10–03.
6. CONTRACTOR SHALL TIE IN CONDUIT/WIRING TO THE SERVICE POINT. PSE WILL PROVIDE THE FINAL CONNECTION FOR TURN ON. SEE SPECIAL PROVISIONS.
7. MAINTAIN AND PROTECT EXISTING CV. CONTRACTOR SHALL PROVIDE A LID ADJUSTMENT TO REMAIN FLUSH WITH FINAL SIDEWALK IMPROVEMENTS.
8. COORDINATE FOUNDATION WITH TRENCH DRAIN BEFORE LOCATING LUMINAIRE FOUNDATION. SEE UTILITIES PLANS.

WIRING SCHEDULE

RUN NO. △	CONDUIT	CONDUCTORS			COMMENTS
		ILLUM #6	GROUND #6	OTHER	
1	2"				SPARE
2	2"	2	1		
3	2"	4	1		
4	3"				SPARE
5	2"			3-#8	IRRIGATION

NOTES

1. EACH PROPOSED LUMINAIRE SHALL INCLUDE AN INTEGRATED PHOTOCELL.
2. PSE WILL PROVIDE THE DISCONNECT OF THE EXISTING LIGHTS PRIOR TO REMOVAL/SALVAGE.
3. PSE CONTACT IS RAWLEY ROBINS 425–456–2453.
4. ROADWAY/CHANNELIZATION IS SHOWN SCREENED FOR REFERENCE ONLY.
5. ALL FIXTURES, POLES, ARMS, AND BASES SHALL BE HOT–DIP GALVANIZED AND PAINTED TO MATCH RAL 9004 TEXTURED BLACK WITH A CLEAR POLYURETHANE POWDER COATING FINISH. ALL POLE ATTACHMENTS SHALL BE PAINTED TO MATCH POLE COLOR.
6. CONTRACTOR SHALL USE 3–#10 WIRES TO EACH LUMINAIRE AND 3–#10 WIRES TO EACH RECEPTACLE FUSED SEPARATELY AT THE INSPECTION PLATE AT THE BASE OF EACH POLE.
7. SEE IC–01 FOR INTERCONNECT SYSTEM.
8. CONDUIT SHALL BE PVC. SCHEDULE 80 PVC UNDER ROADWAYS AND SCHEDULE 40 ELSEWHERE.

LEGEND

- LUMINAIRE – DOUBLE LIGHT
- LUMINAIRE – SINGLE LIGHT
- (#) CONSTRUCTION NOTE
- △# WIRE NOTE
- TYPE 1, 2, 8, JUNCTION BOXES.
- PB PULL BOX
- CABLE VAULT (EXISTING)

1"=20' scale: 20 0 20 40 feet

CONFORMED PLANS

No.	Date	Revision	By	Appr.
2	02/17	ADDENDUM 2 – PSE SERVICE S2 CONNECTION POINT VAULT MOVED	WST	EHS

DKS
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City of Bothell

Drawn By WST Date 3/17
Designed By CLM 3/17
Checked By EHS 3/17
Approved By EHS 3/17
SCALE Horiz Vert
Project Number A15.0180

CITY OF BOTHELL
MAIN STREET ENHANCMENT
ILLUMINATION PLAN

Drawing No. IL1
Sheet No. 68 / 79 of Total

Mar 15, 2017 - 4:49pm wst H:\(p) Projects\1414221-000 BA Bothell Main St Grant\IC\AOIL-PLANS.dwg Layout Name: IL-01 ILLUMINATION PLAN

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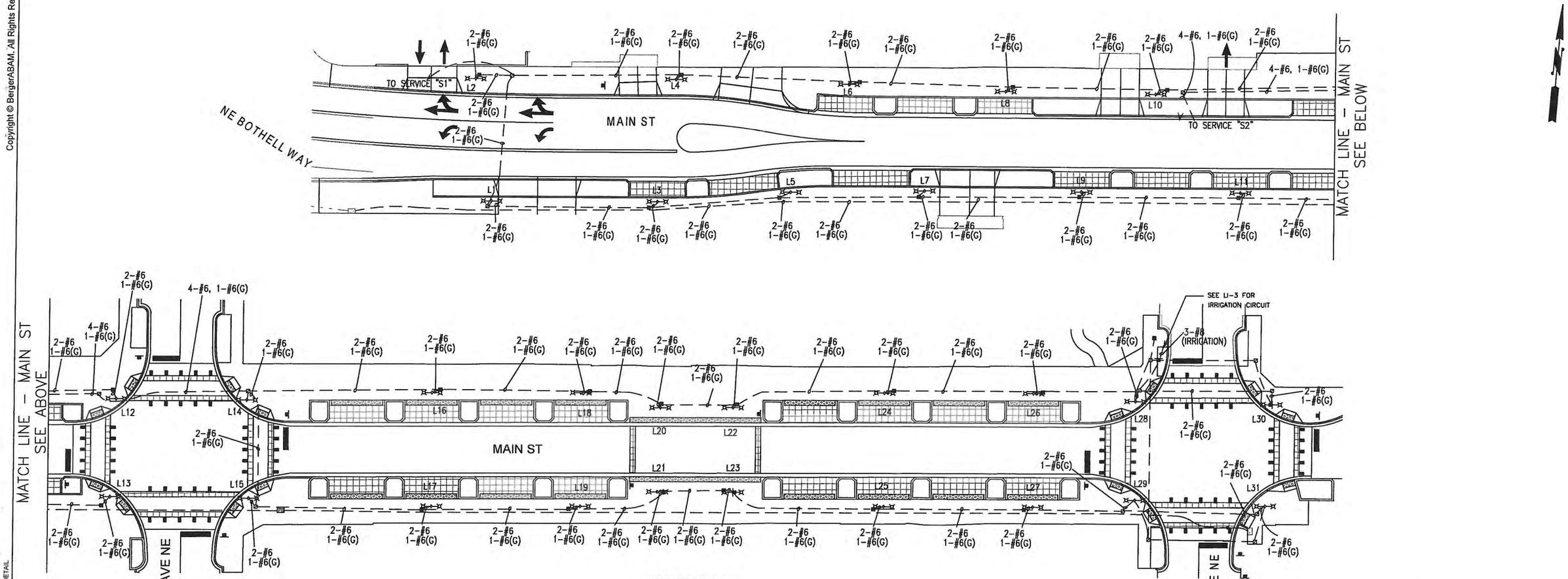
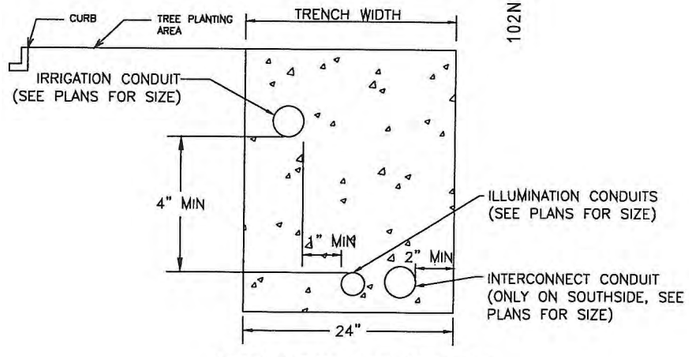


ONELINE DIAGRAM



TYPICAL TRENCH DETAIL (SOUTHSIDE)
MIRRORED FOR NORTHSIDE

LEGEND

- LUMINAIRE – DOUBLE LIGHT
- LUMINAIRE – SINGLE LIGHT
- TYPE 1, 2, 3, JUNCTION BOXES.

1"=20' scale: 20 0 20 40 feet

CONFORMED PLANS

No.	Date	Revision	By	Appr.
2	02/17	ADDENDUM 2 – PSE SERVICE S2 CONNECTION POINT VAULT MOVED	WST	EHS

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City of Bothell

EDGAR HIROAM HELMELL — STATE OF WASHINGTON — 21011 — REGISTERED PROFESSIONAL ENGINEER
3/13/17

Drawn By / Date	WST 3/17
Designed By	CLM 3/17
Checked By	EHS 3/17
Approved By	EHS 3/17
SCALE	
Horiz	
Vert	
Project Number	A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCMENT
ILLUMINATION DETAIL

Drawing No. ILD1
Sheet No. 69 of Total 79

Mar 15, 2017 - 4:46pm vast H:\(n) Projects\141142221-000 BA Bothell Main St Grant\CAD\IL-PLANS.dwg Layout Name: ILD-01 ILLUMINATION DETAIL

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LUMINAIRE SCHEDULE

LUMINAIRE NO.	POLE TYPE	LUMINAIRE DISTRIBUTION	STATION	OFFSET	SERVICE LOCATION #	CIRCUIT #	LUMINAIRE MOUNTING HEIGHT	POLE HEIGHT	FOUNDATION DIAMETER	NOTES
L1	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 16+58	25.1'RT	S1	--	16'	16'	2' ROUND	1
L2	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 16+50	24.5'LT	S1	--	16'	16'	2' ROUND	1
L3	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 17+24	24.9'RT	S1	--	16'	16'	2' ROUND	1
L4	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 17+31	25.0'LT	S1	--	16'	16'	2' ROUND	1
L5	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 17+77	20.7'RT	S1	--	16'	16'	2' ROUND	1
L6	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 18+40	23.3'LT	S1	--	16'	16'	2' ROUND	1
L7	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 18+31	20.0'RT	S1	--	16'	16'	2' ROUND	1
L8	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 18+64	20.8'LT	S1	--	16'	16'	2' ROUND	1
L9	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 18+94	20.0'RT	S1	--	16'	16'	2' ROUND	1
L10	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 19+23	20.0'LT	S1	--	16'	16'	2' ROUND	1
L11	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 19+58	20.0'RT	S1	--	16'	16'	2' ROUND	1
L12	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 20+23	20.5'LT	S1	--	16'	16'	2' ROUND	1
L13	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 20+21	19.2'RT	S1	--	16'	16'	2' ROUND	1
L14	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 20+76	20.1'LT	S2	--	16'	16'	2' ROUND	1
L15	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 20+77	19.7'RT	S2	--	16'	16'	2' ROUND	1
L16	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 21+50	23.0'LT	S2	--	16'	16'	2' ROUND	1
L17	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 21+50	23.0'RT	S2	--	16'	16'	2' ROUND	1
L18	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 22+10	23.0'LT	S2	--	16'	16'	2' ROUND	1
L19	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 22+10	23.0'RT	S2	--	16'	16'	2' ROUND	1
L20	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 22+42	17.0'LT	S2	--	16'	16'	2' ROUND	1
L21	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 22+41	17.1'RT	S2	--	16'	16'	2' ROUND	1
L22	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 22+71	17.1'LT	S2	--	16'	16'	2' ROUND	1
L23	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 22+71	17.3'RT	S2	--	16'	16'	2' ROUND	1
L24	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 23+32	23.0'LT	S2	--	16'	16'	2' ROUND	1
L25	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 23+32	23.0'RT	S2	--	16'	16'	2' ROUND	1
L26	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 23+92	23.0'LT	S2	--	16'	16'	2' ROUND	1
L27	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 23+92	23.0'RT	S2	--	16'	16'	2' ROUND	1
L28	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 24+33	20.0'LT	S2	--	16'	16'	2' ROUND	1
L29	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 24+33	20.1'RT	S2	--	16'	16'	2' ROUND	1
L30	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 24+88	18.8'LT	S2	--	16'	16'	2' ROUND	1
L31	DECORATIVE "TWIN HEAD" PEDESTRIAN LUMINAIRE POLE	TYPE III	STA "M" 24+85	22.4'RT	S2	--	16'	16'	2' ROUND	1

NOTES:

1. PROVIDE 2 BANNER SAVER PRO (BLACK) WITH STRAPS (BLACK) INSTALLED ON POLES PER ARCHITECT AND MANUFACTURES INSTRUCTIONS.

Mar 15, 2017 - 4:47pm wst H:\(p) Projects\14\14221-000 BA Bothell Main St Grant\CAD\IL-PLANS.dwg Layout Name: ILD-02 ILLUMINATION DETAIL

No.	Date	Revision	By	Appr.
1	02/17	ADDENDUM 2 – PSE SERVICE S2 CONNECTION POINT VAULT MOVED	WST	EHS

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www.dksassociates.com

City of Bothell

3/15/17

Drawn By WST Date 3/17
Designed By CLM 3/17
Checked By EHS 3/17
Approved By EHS 3/17

SCALE
Horiz
Vert
Project Number A15.0150

CONFORMED PLANS

CITY OF BOTHELL
MAIN STREET ENHANCMENT

ILLUMINATION DETAIL

Drawing No. ILD2
Sheet No. 70 of 79 Total

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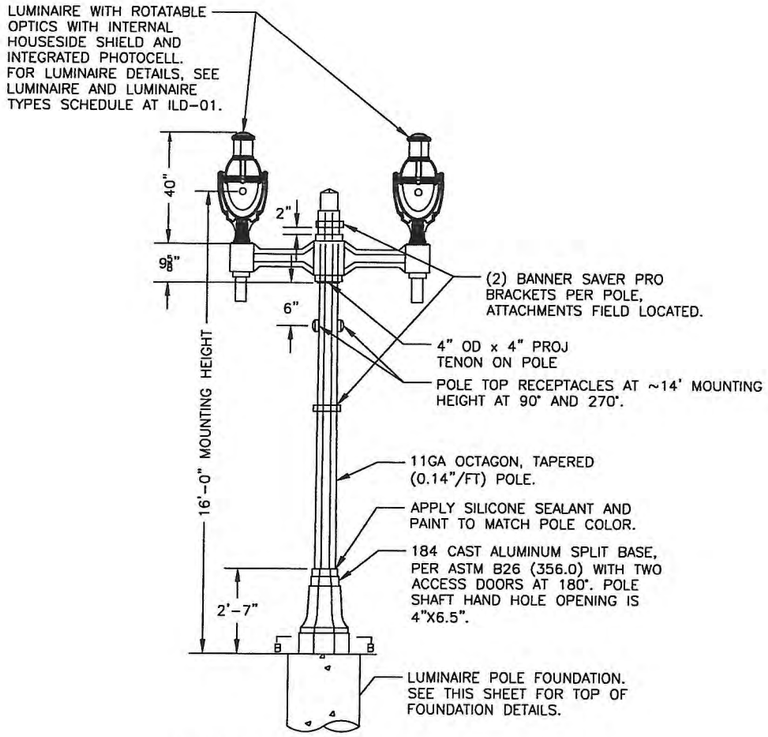
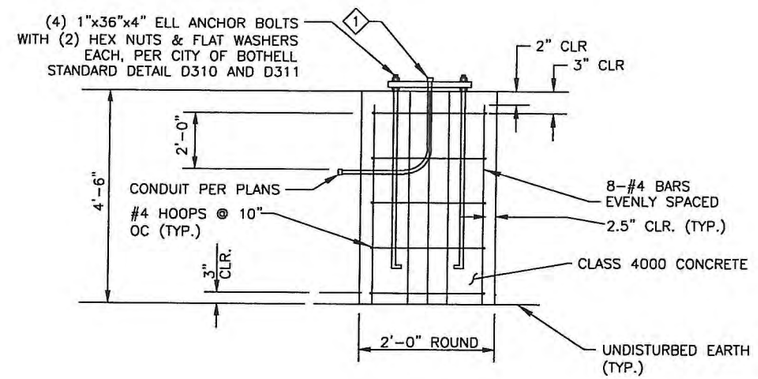


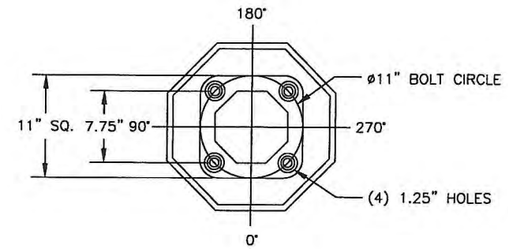
DECORATIVE "TWIN HEAD"
PEDESTRIAN LUMINAIRE/POLE/BASE

N.T.S.



LUMINAIRE FOUNDATION DETAIL

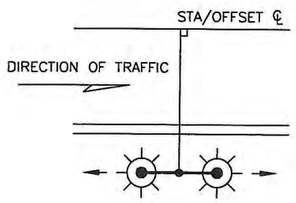
1 CONDUIT SIZE AND QUANTITY AS SHOWN IN THE CONTRACT; CAP BOTH ENDS.



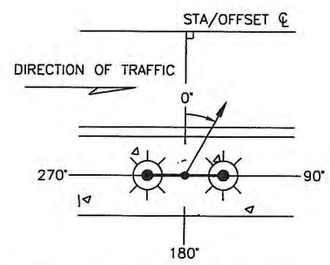
VIEW "B-B"

NOTES

1. FOR POLE RECEPTACLE(S) USE A 20A 125V GFCI RECEPTACLE NEMA 5-20R WITH LOCKABLE WHILE IN USE COVER. PAINTED TO MATCH POLE COLOR WITH FRAME INTEGRATED WITH STRUCTURE.
2. BANNER SIZE IS APPROXIMATELY 79.5"X29.75". BANNER CLEARANCE IS APPROXIMATE 7.5'.



TYPICAL LUMINAIRE LAYOUT



HANDHOLE/OPTICS/RECEPTACLE ORIENTATION

CONFORMED PLANS

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1	02/17	ADDENDUM 2 – PSE SERVICE S2 CONNECTION POINT VAULT MOVED	WST	EHS

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City of Bothell

3/13/17

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Designed By	CLM 3/17
Checked By	EHS 3/17
Approved By	EHS 3/17
SCALE Horiz	
Vert	
Project Number	A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCMENT
ILLUMINATION DETAIL

Drawing No. ILD3
Sheet No. 71 of Total 79

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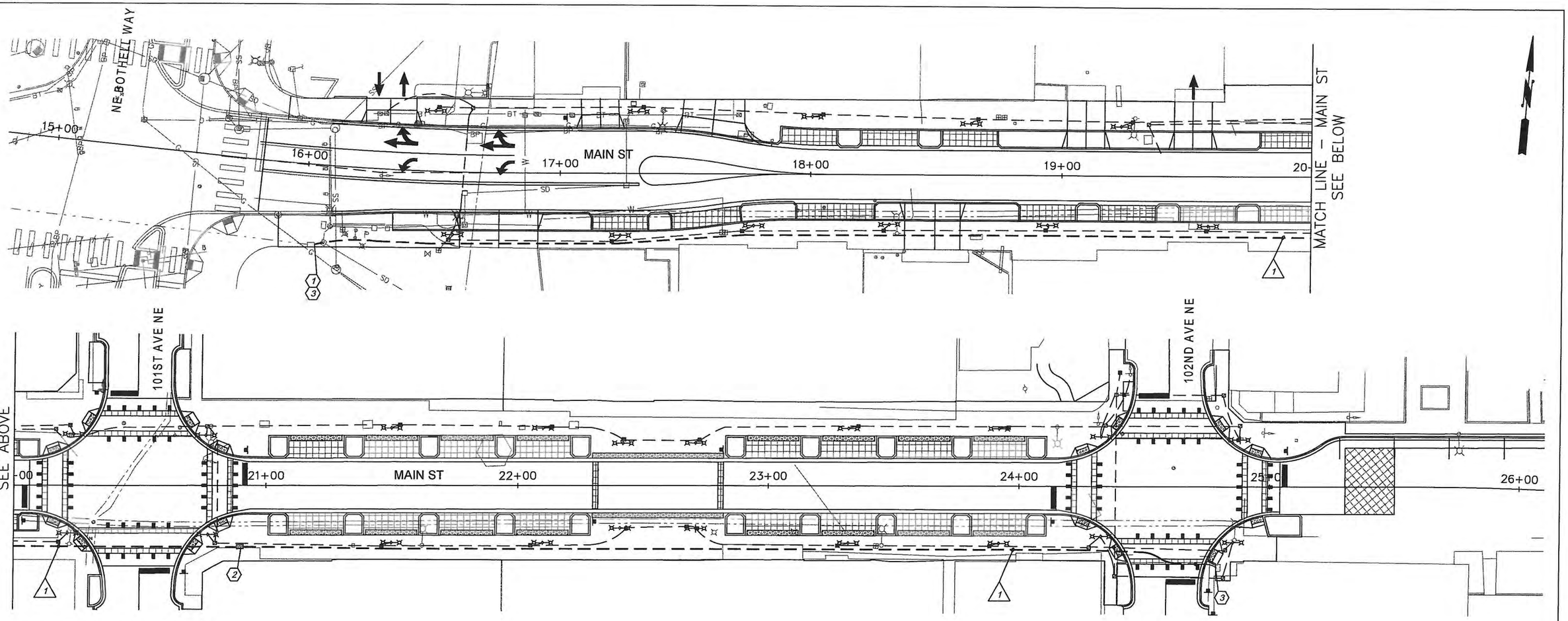

CONSTRUCTION NOTES

1. TIE IN CONDUIT WITH THE EXISTING CV FOR INTERCONNECT (FUTURE).
2. FURNISH AND INSTALL NEW PULL BOX PER WSDOT STD PLAN J-90.10-01.
3. INSTALL CONDUIT INTO EXISTING CABLE VAULT.
4. CONDUIT FOR INTERCONNECT SHALL BE PVC, SCHEDULE 40. PULL STRING INSTALLED WITHIN INTERCONNECT CONDUIT SHALL BE TRACEABLE.

WIRING SCHEDULE

RUN NO. △	CONDUIT	CONDUCTORS	COMMENTS
1	2-4"		INTERCONNECT WITH PULL STRING

LEGEND

- (#) CONSTRUCTION NOTE
- △# WIRE NOTE
- ⊠ ◪ ◫ TYPE 1, 2, 8, JUNCTION BOXES.
- CV CABLE VAULT (EXISTING)

1"=20' scale: 20 0 20 40 feet

CONFORMED PLANS

No.	Date	Revision	By	Appr.
2	02/17	ADDENDUM 2 – PSE SERVICE S2 CONNECTION POINT VAULT MOVED	WST	EHS

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Approved By EHS 3/17

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CITY OF BOTHELL
MAIN STREET ENHANCMENT
INTERCONNECT PLAN

Drawing No. IC1
Sheet No. 72 of Total 79

Mar 15, 2017 - 4:47pm vlat H:\(p) Projects\141\4221-000 BA Bothell Main St Grant\CAD\IL-PLANS.dwg Layout Name: IC-01 INTERCONNECT PLAN

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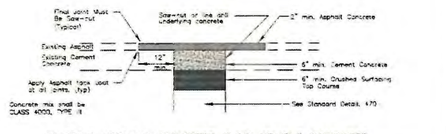
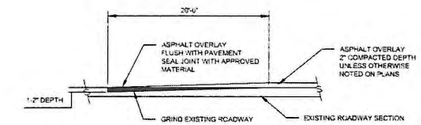


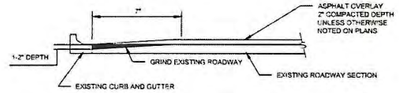
NOTES:

1. ALL TRENCHES IN ROADWAY AREAS SHALL BE BACKFILLED AND PATCHED WITH TEMPORARY ASPHALT AT THE END OF EACH WORK DAY, UNLESS PERMISSION IS GRANTED TO DO OTHERWISE BY THE CITY ENGINEER.
2. ALL TEMPORARY PATCHES ON TRENCHES SHALL BE PERMANENTLY PATCHED WITHIN 2 WEEKS OF COMPLETION OF WORK WITHIN THE ROADWAY AREA.

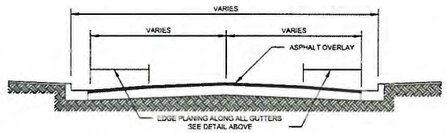
City of Bothell — PUBLIC WORKS DEPARTMENT — PAVEMENT PATCHING — Standard Detail 317 — Revision Date Feb 2012



BUTT JOINT DETAIL

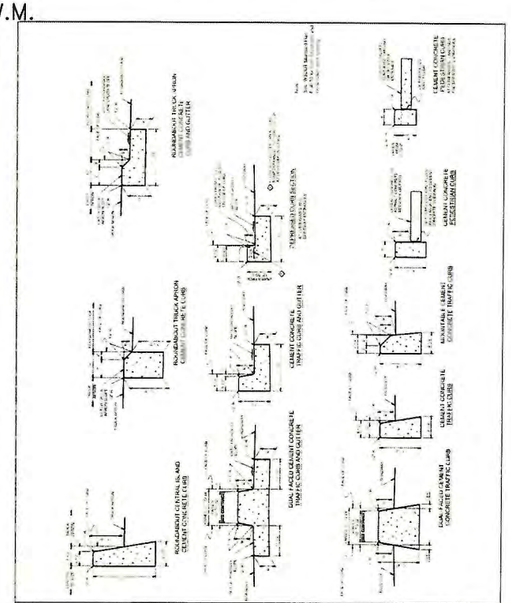


EDGE PLANING DETAIL

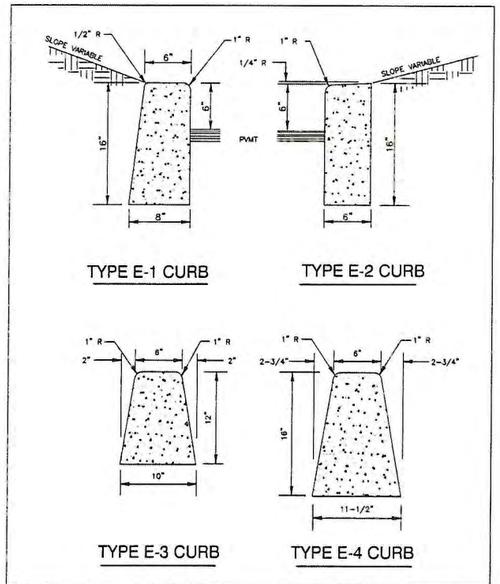


TYPICAL OVERLAY DETAIL

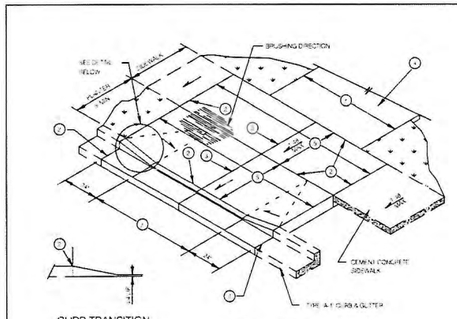
City of Bothell — PUBLIC WORKS DEPARTMENT — PAVEMENT PLANING — Standard Detail 318 — Revision Date Feb 2012



City of Bothell — PUBLIC WORKS DEPARTMENT — CEMENT CONCRETE CURBS — Standard Detail 340 — Revision Date Feb 2012



City of Bothell — PUBLIC WORKS DEPARTMENT — CONCRETE CURB TYPE E-1 E-2, E-3, E-4 — Standard Detail 341 — Revision Date Feb 2012



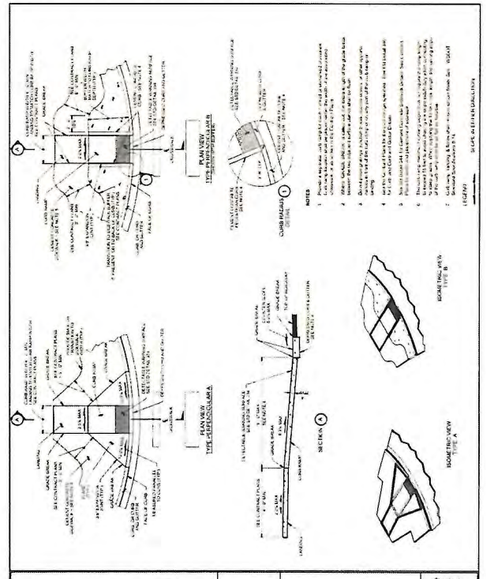
CURB TRANSITION DETAIL — ISOMETRIC VIEW

1. FOR 4.5 WIDTH OF DRIVEWAY AT PROPERTY LINE. MINIMUM WIDTH 4.1 PER 14.21.010
2. 1/2" WIDE FULL DEPTH EXPANSION JOINT
3. FULL DEPTH EXPANSION JOINT IS 10' OR GREATER
4. DRIVEWAY TO BE SURFACED WITH ASPHALT OR CONCRETE
5. DRIVEWAY WIDTH AREA. SEE PLANS FOR EXACT DIMENSIONS

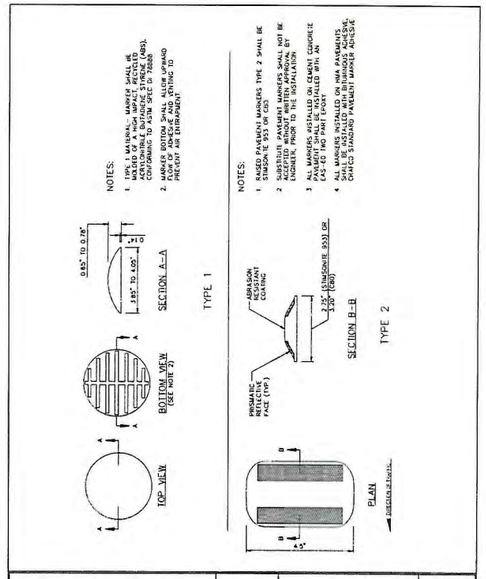
NOTES

1. DRIVEWAY CEMENT CONCRETE SHALL BE A MIN OF 6" THICK AND IS TO BE PLACED ON A MINIMUM OF 4" CRUSHED SURFACING TOP COURSE COMPACTED TO 95% MAXIMUM DENSITY
2. DRIVEWAY SHALL ALL INTEGRAL AIR 1000 CEMENT CONCRETE WITH AIR ENTRAINMENT MIN 4% MAX 6%
3. DRIVEWAY AND ALLEY CROSSINGS SHALL BE GROOVED LONGITUDINALLY
4. DRIVEWAY JOINTS SHALL BE TOOLED WITH A 1/4" INCH RADIUS EDGER DRIVEWAY EDGES SHALL BE TOOLED WITH A 1/2" INCH RADIUS EDGER
5. THE FINISHED DRIVEWAY SHALL BE SPRAYED WITH A TRANSPARENT CURING COMPOUND COVERED BY WATERPROOF PAPER OR PLASTIC SHEETING IN THE EVENT OF RAIN OR OTHER INCLEMENT WEATHER. CURING TIME SHALL BE FOR A MINIMUM OF 72 HOURS

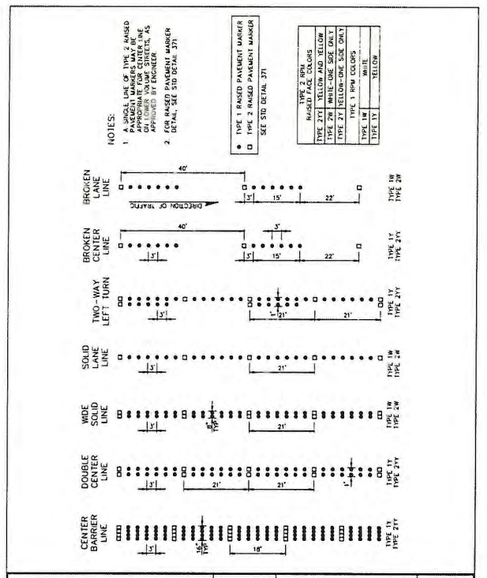
City of Bothell — PUBLIC WORKS DEPARTMENT — CEMENT CONCRETE DRIVEWAY TYPE - 2 — Standard Detail 347 — Revision Date Jun. 2015



City of Bothell — PUBLIC WORKS DEPARTMENT — PERPENDICULAR CURB RAMP — Standard Detail 350 — Revision Date Feb 2012



City of Bothell — PUBLIC WORKS DEPARTMENT — RAISED PAVEMENT MARKER — Standard Detail 371 — Revision Date Feb 2012



City of Bothell — PUBLIC WORKS DEPARTMENT — RAISED PAVEMENT LANE MARKING ARTERIAL — Standard Detail 372 — Revision Date Feb 2012

CONFORMED PLANS

No.	Date	Revision	By	Appr.

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City of Bothell

Drawn By	HKB	Date 3/13/17
Designed By	HKB	3/13/17
Checked By	JWA	3/13/17
Approved By	RLF	3/13/17

SCALE
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Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
BOTHELL STANDARDS—SHEET 1

Drawing No. CB1
Sheet No. 73 of 79 Total

Mar 15, 2017 - 5:34pm susann.babael Q:\Seattle\2015\A15.0150\00\CADD\Dwgs\24_CB-01.dwg Layout Name: Layout1

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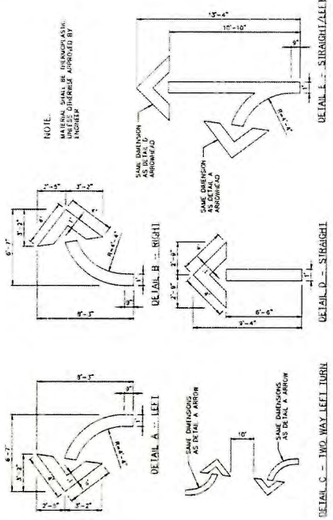
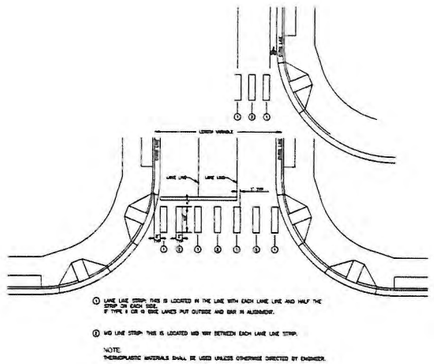
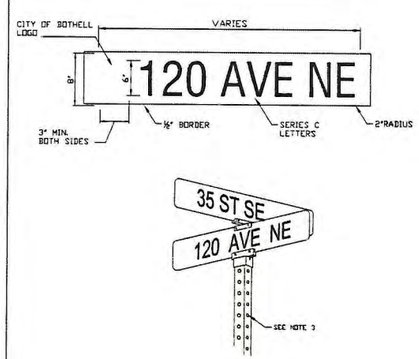


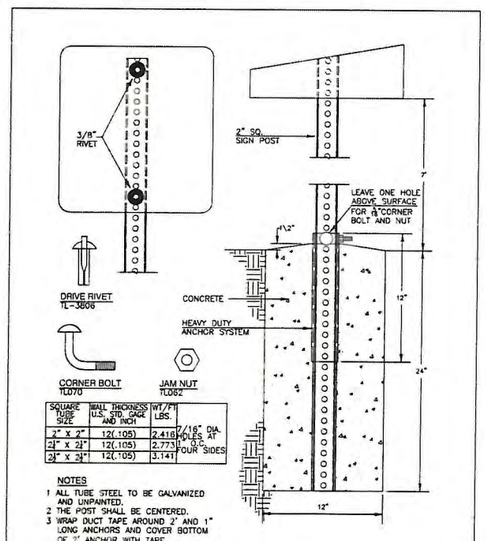
City of Bothell | PUBLIC WORKS DEPARTMENT | PAVEMENT ARROW MARKINGS | Standard Detail 374 | Revision Date Feb 2012



City of Bothell | PUBLIC WORKS DEPARTMENT | TYPICAL CROSSWALK STRIPING | Standard Detail 380 | Revision Date Feb 2012

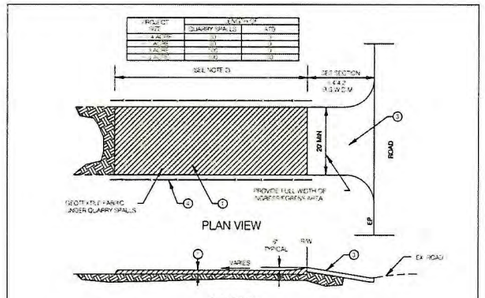


City of Bothell | PUBLIC WORKS DEPARTMENT | STREET NAME SIGN POST MOUNTED COLLECTOR AND LOCAL ACCESS STREETS | Standard Detail 385 | Revision Date Feb 2012



SQUARE TUBE SIZE	WALL THICKNESS U.S. STD. GAGE AND INCH	WT/FT LBS.	
2" X 2"	12(.105)	2.418	⅝" DIA. HOLES AT 1" O.C. FOUR SIDES
2½" X 2½"	12(.105)	2.773	
3" X 3"	12(.105)	3.141	

City of Bothell | PUBLIC WORKS DEPARTMENT | SIGN POST INSTALLATION | Standard Detail 391 | Revision Date Feb 2012



DETAIL NOTES:

① 4" TOP QUARRY SPALLS AS SPECIFIED IN SECTION 9-13.6 OF THE WSDOT/APWA STANDARD SPECIFICATIONS

② THE MINIMUM LENGTH SHALL BE LENGTHENED AS NECESSARY TO ENSURE MATERIAL IS NOT TRACKED ONTO THE PUBLIC RIGHT-OF-WAY. ALTERNATE CONSTRUCTION ENTRANCES WILL BE ALLOWED WITH APPROVAL OF THE DIRECTOR OR CAGE BY CASE BASIS WHERE PHYSICAL SITE CONDITIONS AND SIZE DICTATE.

③ NTB DRIVEWAY RAMP OR SITE ACCESS TO HAVE WIDEN. SEE TABLE ABOVE FOR REQUIRED LENGTH

④ INSTALL ORANGE BARRIER FENCE TO DIRECT TRAFFIC ONTO CONSTRUCTION ENTRANCE

NOTES:

1. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE, IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

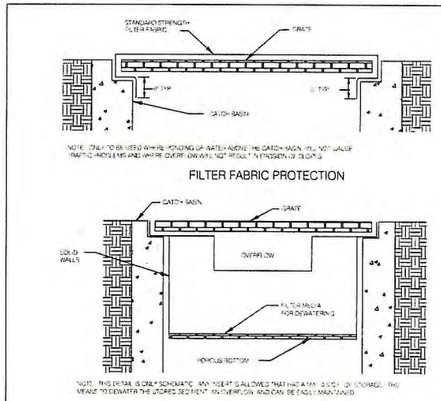
2. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

3. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS USED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

4. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

5. TRUCK TIRE WASH REQUIRED.

City of Bothell | PUBLIC WORKS DEPARTMENT | STABILIZED CONSTRUCTION ENTRANCE | Standard Detail T404 | Revision Date Feb 2012



NOTES:

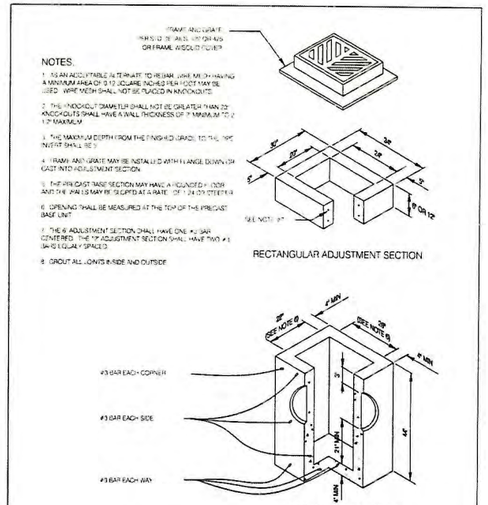
1. ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC PROTECTION SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED WITH WATER AND ALL SEDIMENT MUST BE DISPOSED OF AS FILL ON SITE OR HAULED OFF SITE.

2. ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN THE SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY.

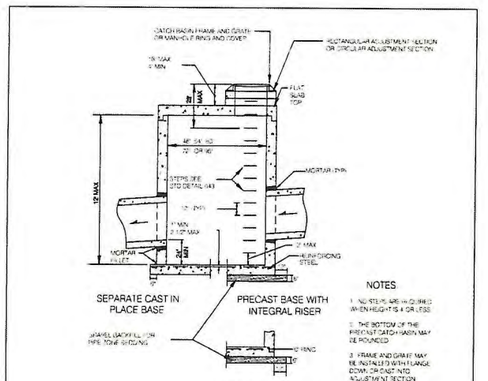
3. REGULAR MAINTENANCE IS CRITICAL FOR BOTH FORMS OF CATCH BASIN PROTECTION. UNLIKE MANY FORMS OF PROTECTION THAT FAIL GRADUALLY, CATCH BASIN PROTECTION WILL FAIL SUDDENLY AND COMPLETELY IF NOT MAINTAINED PROPERLY.

4. ALL CATCH BASIN PROTECTION SHALL BE REMOVED WHEN WORK IS COMPLETE.

City of Bothell | PUBLIC WORKS DEPARTMENT | STORM INLET PROTECTION | Standard Detail T408 | Revision Date Feb 2012



City of Bothell | PUBLIC WORKS DEPARTMENT | CATCH BASIN TYPE 1 | Standard Detail 412 | Revision Date Feb 2012



NOTES

1. NO STEPS ARE REQUIRED WHEN HEIGHT IS 4'-0" OR LESS.
2. THE BOTTOM OF THE PRECAST CATCH BASIN MAY BE ROUNDED.
3. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO ADJUSTMENT SECTION.
4. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 1" MINIMUM TO 2 1/2" MAXIMUM.
5. GROUT ALL JOINTS INSIDE AND OUTSIDE.

CATCH BASIN DIMENSION TABLE

DIA	WALL THICKNESS	BASE THICKNESS	RISER THICKNESS	MINIMUM DISTANCE BETWEEN KNOCKOUTS	BASE REINFORCING STEEL IN 2 FT IN EACH DIRECTION	
					INTEGRAL BASE	SEPARATE BASE
48	4"	6"	36"	8"	0.15	0.29
54"	4 1/2"	8"	42"	8"	0.19	0.19
60"	5"	8"	48"	8"	0.26	0.25
72"	6"	8"	60"	12"	0.74	0.38
96"	8"	12"	84"	12"	0.29	0.39

City of Bothell | PUBLIC WORKS DEPARTMENT | CATCH BASIN TYPE 2 | Standard Detail 414 | Revision Date Feb 2012

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City of Bothell

Drawn By HKB	Date 3/13/17	SCALE
Designed By HKB	3/13/17	Horiz
Checked By JWA	3/13/17	Vert
Approved By RLF	3/13/17	Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
BOTHELL STANDARDS—SHEET 2

Drawing No. CB2
Sheet No. 74 / 79 of Total

Mar 15, 2017 - 5:35pm susann.babael O:\Seattle\2015\A15.0150\00\CAD\Dwg\s24_CB-02.dwg Layout Name: Layout1

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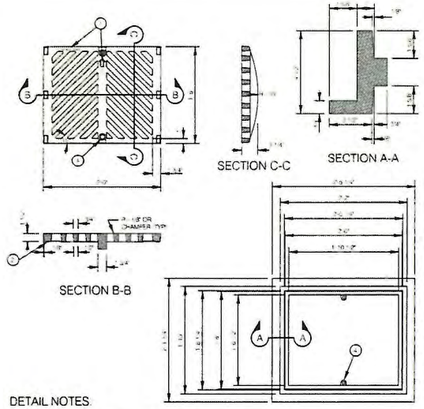
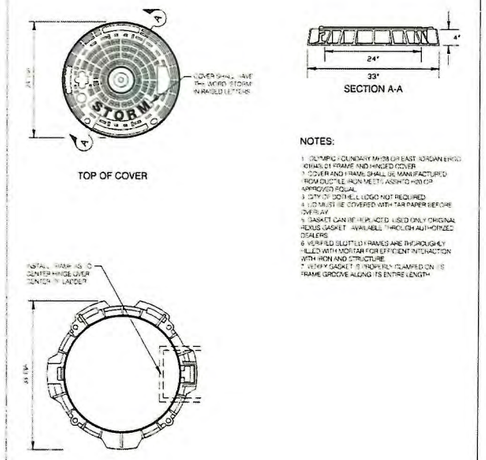
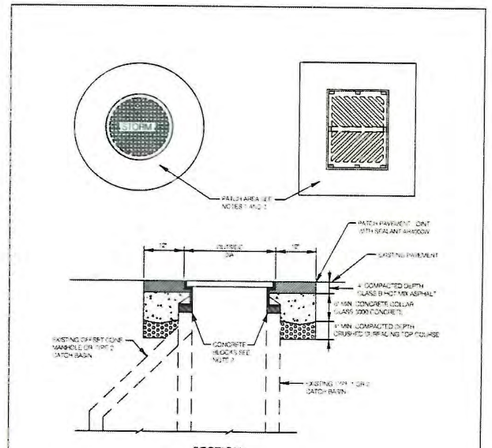


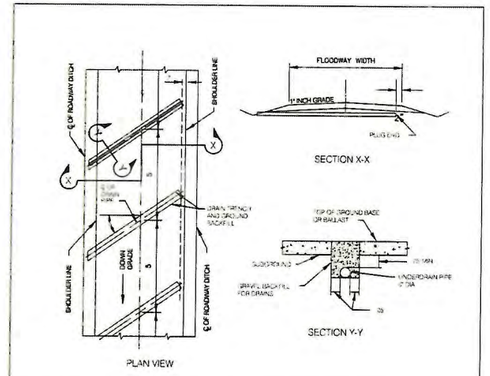
City of Bothell	City of Bothell PUBLIC WORKS DEPARTMENT		FRAME AND GRATE 20"X24"	Standard Detail 422	Revision Date Feb. 2012



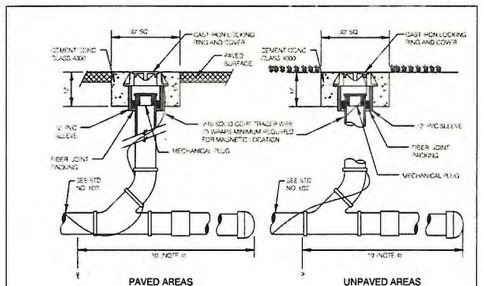
City of Bothell	City of Bothell PUBLIC WORKS DEPARTMENT		STORM DRAIN LOCKING MANHOLE FRAME AND COVER	Standard Detail 426	Revision Date Jun. 2015



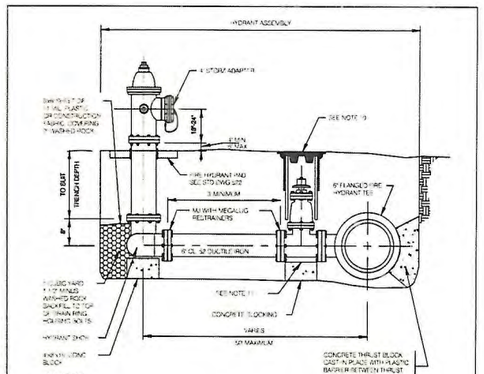
City of Bothell	City of Bothell PUBLIC WORKS DEPARTMENT		FRAME AND COVER ADJUSTMENT	Standard Detail 427	Revision Date Feb. 2012



City of Bothell	City of Bothell PUBLIC WORKS DEPARTMENT		FRENCH DRAIN UNDER ROAD	Standard Detail 464	Revision Date Feb. 2012



City of Bothell	City of Bothell PUBLIC WORKS DEPARTMENT		STORM PIPE CLEANOUT	Standard Detail 498	Revision Date Jun. 2015



City of Bothell	City of Bothell PUBLIC WORKS DEPARTMENT		FIRE HYDRANT ASSEMBLY	Standard Detail 520	Revision Date Nov. 2013

CONFORMED PLANS

No.	Date	Revision	By	Appr.

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City of Bothell

Drawn By HKB	Date 3/13/17
Designed By HKB	3/13/17
Checked By JWA	3/13/17
Approved By RLF	3/13/17

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
BOTHELL STANDARDS—SHEET 3

Drawing No. CB3
Sheet No. 75 / 79 of Total

Mar 15, 2017 - 5:36pm susann.babaei O:\Seattle\2015\A15.0150\00\CADD\Dwgs\24_CB-03.dwg Layout Name: Layout1

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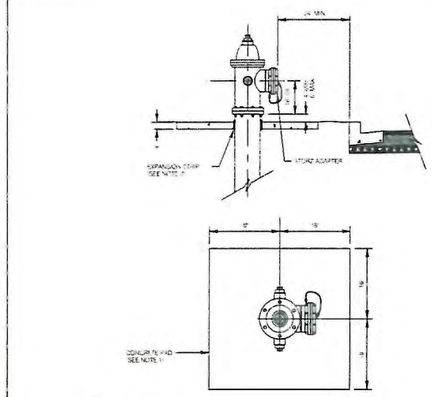
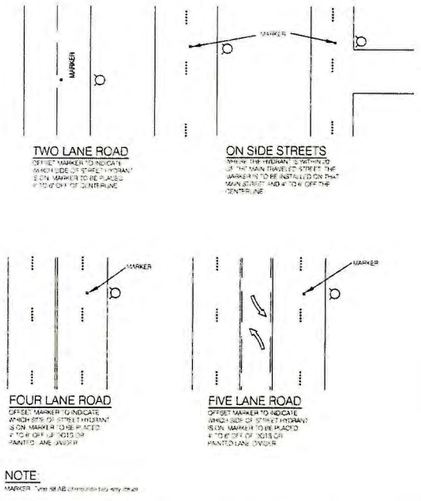
S.07 & 08 T.26N. R.05E. W.M.



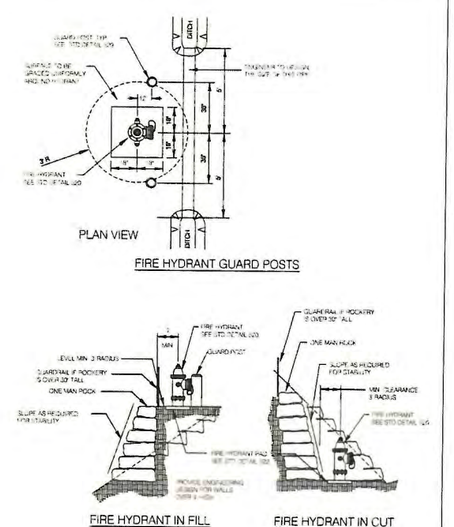
NOTES:
1. CONCRETE SHALL BE CLASS 2000.
3. INSTALL 12" WIDE FULL DEPTH EXPANSION STRIP AROUND HYDRANT.
4. FIRE HYDRANT SHALL BE INSTALLED A MIN. OF 4' FROM BACK OF CURB/SIDEWALK TO FACE OF PUMPER.
5. CONCRETE PAD TO BE CONSTRUCTED AT GRADE. NO SOIL CUT AROUND HYDRANT TO MEET MINIMUM HEIGHT STANDARD.

City of Bothell | PUBLIC WORKS DEPARTMENT | FIRE HYDRANT PAD DETAILS | Standard Detail 522 | Revision Date Feb. 2012



NOTE:
MARKER "Type 1B AB (Omnidirectional) only" shown

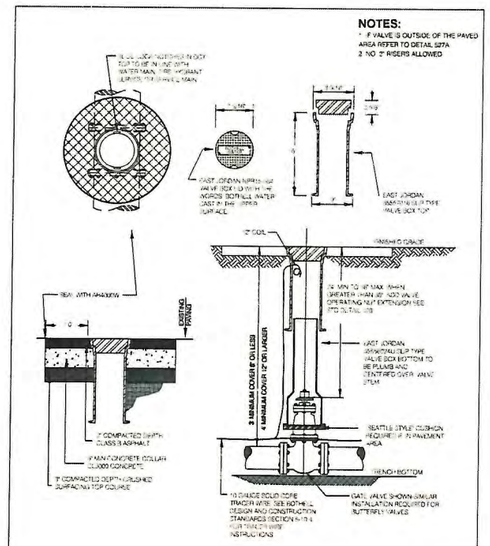
City of Bothell | PUBLIC WORKS DEPARTMENT | FIRE HYDRANT MARKERS | Standard Detail 523 | Revision Date Feb. 2012



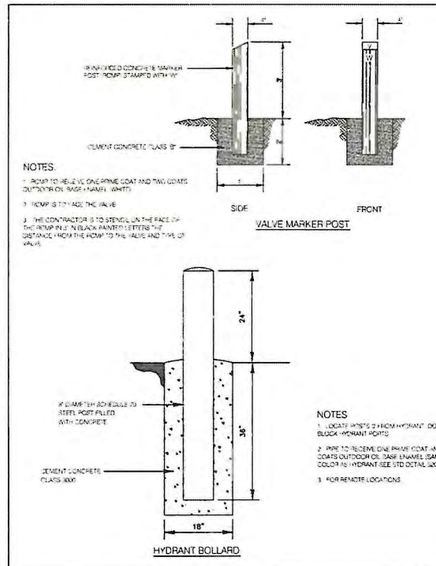
FIRE HYDRANT GUARD POSTS

FIRE HYDRANT IN FILL | FIRE HYDRANT IN CUT

City of Bothell | PUBLIC WORKS DEPARTMENT | FIRE HYDRANT PLACEMENT/GUARD POSTS | Standard Detail 524 | Revision Date Feb. 2012



City of Bothell | PUBLIC WORKS DEPARTMENT | VALVE BOX INSIDE PAVED ROADWAY | Standard Detail 527 | Revision Date Jun. 2015



NOTES:
1. ROMP TO BE 6' LONG, ONE PRIME COAT AND TWO COATS OUTSIDE OF OIL BASE ENAMEL (WHITE).
2. ROMP IS TO HAVE THE VALVE
3. THE CONTRACTOR IS TO STENCIL ON THE FACE OF THE ROMP IN 2" IN BLACK PAINT THE LETTERS THE DISTANCE FROM THE ROMP TO THE VALVE AND TYPE OF VALVE.

VALVE MARKER POST

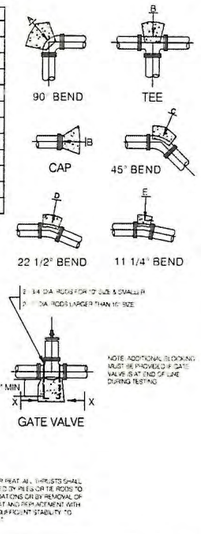
NOTES
1. LOCATE POSTS 2 FROM HYDRANT. DON'T BLOCK HYDRANT PORTS.
2. PAINT TO RESEMBLE ONE PRIME COAT AND TWO COATS OUTDOOR OIL BASE ENAMEL (SAME COLOR AS HYDRANT SEE STD DETAIL 520)
3. FOR REMOTE LOCATIONS.

HYDRANT BOLLARD

City of Bothell | PUBLIC WORKS DEPARTMENT | VALVE MARKER AND GUARD POST | Standard Detail 529 | Revision Date Feb. 2012

THRUST BLOCK - TABLE

PIPE SIZE	PRESSURE PSI	MINIMUM BEARING AREA AGAINST UNDISTURBED SOIL SQUARE FEET A	B	C	D	E	F (1/2 PT)
4"	200	2(1')	1(NONE)	1(NONE)	NONE	NONE	NONE
	150	1(1')	1(1')	2(1')	1(1')	NONE	
6"	200	4(2')	2(1')	3(1')	1(1')	1(NONE)	NONE
	150	3(1')	2(1')	3(1')	1(1')	1(NONE)	
8"	200	7(3')	3(1')	6(2')	2(1')	1(1')	1(1')
	150	5(3')	3(1')	5(2')	2(1')	1(1')	
10"	200	11(4')	5(2')	9(3')	3(1')	2(1')	1(1')
	150	10(11)	4(2')	8(3')	3(1')	2(1')	
12"	200	16(11)	7(3')	13(4')	4(2')	3(1')	1(1')
	150	24(16)	17(11)	13(5')	5(2')	4(1')	
14"	200	22(13)	10(11)	17(5')	6(2')	5(2')	2(1')
	150	33(22)	23(15)	18(12)	7(3')	5(2')	
16"	200	29(19)	21(14)	16(11)	8(3')	6(2')	1(2/7)
	150	43(1')	30(15)	17(12)	10(4')	7(3')	
18"	200	36(24)	25(17)	20(13)	10(4')	8(3')	1(3/8)
	150						
20"	200	45(23)	32(21)	24(16)	13(5')	7(3')	1(5/16)
	150						
24"	200	64(43)	46(30)	35(23)	18(12)	9(6)	2(5/16)



2 3/4 DIA. RODS FOR 12" DIA. & SMALLER
3 7/8" DIA. RODS LARGER THAN 16" SIZE
NOTE: ADDITIONAL BLOCKING MUST BE PROVIDED IF GATE VALVE SEAT END OF LINE DURING TESTING

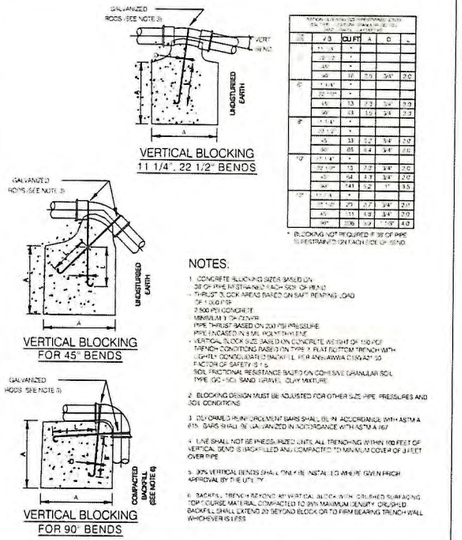
NOTES:
1. SQUARE FEET OF CONCRETE THRUSTS - BLOCK AREA BASED ON SAFE BEARING LOAD OF 2000-3000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER PIPE PRESSURES & SOIL CONDITIONS
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE MINIMUM OF 1 HOUR OF BEARING AGAINST THRUSTING.
4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT.
5. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
6. 4 MIL PLASTIC OR CONSTRUCTION FABRIC WILL BE WRAPPED AROUND PIPE AND FITTINGS BEFORE THRUST BLOCKS ARE POURED.

SAFE BEARING LOADS IN LB. PER SQ. FT.
THE DATA REGARDING LOADS GIVEN IN THE TABLE BELOW ARE FOR HORIZONTAL THRUSTS AGAINST THE DEPTH OF COVER OVER THE PIPE EXCEEDS 2'.

SOIL	SAFE BEARING LOAD LB. PER SQ. FT.
* MUCK, PEAT, ETC	0
SOFT CLAY	1,000
SAND	2,000
SAND & GRAVEL	3,000
SAND, GRAVEL AND CEMENTED WITH CLAY	4,000
HARD CLAY	10,000

* IN MUCK OR PEAT, ALL THRUSTS SHALL BE RESTRAINED BY PILES OR TIE RODS TO SOLID FOUNDATIONS OR BY REMOVAL OF MUCK OR PEAT AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THRUST.

City of Bothell | PUBLIC WORKS DEPARTMENT | WATER MAIN THRUST BLOCKING | Standard Detail 530 | Revision Date Feb. 2012

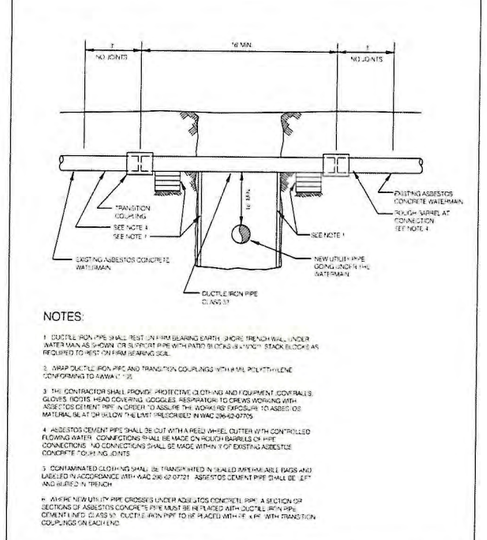


SIZE	A	B	C	D	E
4"	1'	*			
	2'	*			
	3'	*			
	4'	9"	7"	3'-0"	2'-0"
6"	1'	*			
	2'	*			
	3'	9"	7"	3'-0"	2'-0"
	4'	1'-0"	8"	3'-0"	2'-0"
8"	1'	*			
	2'	*			
	3'	1'-0"	8"	3'-0"	2'-0"
	4'	1'-3"	1'-0"	3'-0"	2'-0"
10"	1'	*			
	2'	*			
	3'	1'-3"	1'-0"	3'-0"	2'-0"
	4'	1'-6"	1'-3"	3'-0"	2'-0"
12"	1'	*			
	2'	*			
	3'	1'-6"	1'-3"	3'-0"	2'-0"
	4'	1'-9"	1'-6"	3'-0"	2'-0"

* BLOCKING NOT REQUIRED IF 30' OF PIPE IS RESTRAINED ON EACH SIDE OF BEND.

NOTES:
1. CONCRETE BLOCKING SIZES BASED ON:
- 90° OF PIPE INSTALLED EACH SIDE OF HEAD
- THRUST BLOCK AREAS BASED ON SAFE BEARING LOAD OF 1,000 PSF
- 2,500 PSI CONCRETE
- MINIMUM 3 7/8" RODS
- PIPE THRUST BASED ON 200 PSI PRESSURE
- PIPE ENCASED IN 8 MIL POLYETHYLENE
- VERTICAL BLOCK SIZE BASED ON CONCRETE WEIGHT OF 150 PCF, TRENCH CONDITIONS TABLE 2 IN TYPE 1 FLAT BOTTOM TRENCH WITH LIGHTLY CONSOLIDATED BACKFILL PER ANSI/AWWA C600-10 FACTOR OF SAFETY OF 1.5
- SOIL FRICTIONAL RESISTANCE BASED ON COHESIVE GRANULAR SOIL TYPE GC-GC SAND, GRAVEL, CLAY MIXTURE.
2. BLOCKING DESIGN MUST BE ADJUSTED FOR OTHER SIZE PIPE, PRESSURES AND SOIL CONDITIONS.
3. GALVANIZED PIPE RESTRAINT BARS SHALL BE IN ACCORDANCE WITH ASTM A 615. BARS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 767.
4. LINE SHALL NOT BE PRESSURIZED UNTIL ALL TRENCHING WITHIN 100 FEET OF VERTICAL BEND IS INSTALLED AND COMPACTED TO MINIMUM COVER OF 3 FEET OVER PIPE.
5. 90° VERTICAL BENDS SHALL ONLY BE INSTALLED WHERE GIVEN PRIOR APPROVAL BY THE UTILITY.
6. BACKFILL TRENCH BEYOND VERTICAL BLOCK WITH CRUSHED SURFACING TOP COURSE MATERIAL COMPACTED TO 95% MAXIMUM DENSITY. CRUSHED BACKFILL SHALL EXTEND 2D BEYOND BLOCK OR TO FIRM BEARING TRENCH WALL WHICHEVER IS LESS.

City of Bothell | PUBLIC WORKS DEPARTMENT | WATER MAIN VERTICAL THRUST BLOCKING | Standard Detail 531 | Revision Date Feb. 2012



NOTES:
1. DUCTILE IRON PIPE SHALL REST ON FIRM BEARING EARTH. WHERE TRENCH WALL UNDER WATER MAIN AS SHOWN OR IS UNSTABLE PIPE WITH WATER IS DEEP, STACK BLOCKS AS REQUIRED TO REST ON FIRM BEARING SOIL.
3. WRAP DUCTILE IRON PIPE AND TRANSITION COUPLINGS WITH 8 MIL POLYETHYLENE CONFORMING TO AWWA C105.
3. THE CONTRACTOR SHALL PROVIDE PROTECTIVE CLOTHING AND EQUIPMENT (COVERALLS, GLOVES, HOOD, HEAD COVERING, GOGGLES, RESPIRATOR) TO CREWS WORKING WITH ASBESTOS CEMENT PIPE IN ORDER TO ASSURE THE WORKERS EXPOSURE TO ASBESTOS MATERIAL IS AT OR BELOW THE LIMIT PRESCRIBED IN WAC 296-62-07705.
4. ASBESTOS CEMENT PIPE SHALL BE CUT WITH A PIPE WHEEL CUTTER WITH CONTROLLED FLOWING WATER. CONNECTIONS SHALL BE MADE ON ROUGH BARRELS OF PIPE. CONNECTIONS: NO CONNECTIONS SHALL BE MADE WITHIN 3 FT OF EXISTING ASBESTOS CONCRETE COUPLING JOINTS.
5. CONTAMINATED CLOTHING SHALL BE TRANSMITTED IN SEALED IMPERMEABLE BAGS AND LABELED IN ACCORDANCE WITH WAC 296-62-07721. ASBESTOS CEMENT PIPE SHALL BE "LEFT AND BURIED IN TRENCH.
6. WHERE NEW WATER PIPE CROSSES UNDER ASBESTOS CONCRETE PIPE, A SECTION OF SECTIONS OF ASBESTOS CONCRETE PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE. CEMENT LINED CLASS 51 DUCTILE IRON PIPE TO BE FITTED WITH FLANGE WITH TRANSITION COUPLINGS ON EACH END.

City of Bothell | PUBLIC WORKS DEPARTMENT | UNDERCROSSING EXISTING ASBESTOS CONCRETE MAINS | Standard Detail 540 | Revision Date Feb. 2012

CONFORMED PLANS

No.	Date	Revision	By	Appr.

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City of Bothell

Drawn By HKB	Date 3/13/17	
Designed By HKB	3/13/17	
Checked By JWA	3/13/17	
Approved By RLF	3/13/17	

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
BOTHELL STANDARDS—SHEET 4

Drawing No. CB4
Sheet No. 76 / 79 of Total

Mar 15, 2017 - 5:36pm susanm babaei Q:\Seattle\2015\A15.0150\00\CADD\Dwgs\24_CB-04.dwg Layout Name: Layout1

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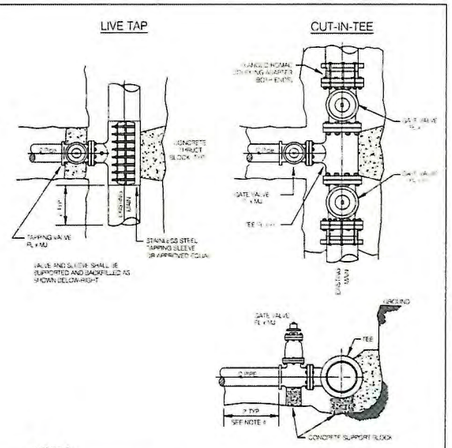
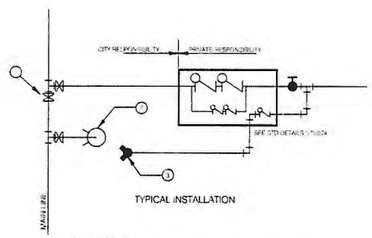


NOTES:

1. 8 MIL PLASTIC OR CONSTRUCTION FABRIC SHALL BE WRAPPED AROUND PIPE AND FITTINGS BEFORE THRUST BLOCKS ARE POURED.
2. SUPPORT VALVE AND SLEEVE CONTINUOUSLY THROUGH INSTALLATION.
3. STAINLESS STEEL TAPPING TEES SHALL HAVE A FULL GASKET SEAL.
4. NO CONNECTIONS WITHIN THIS AREA.

City of Bothell	PUBLIC WORKS DEPARTMENT	CONNECTION TO EXISTING MAIN	Standard Detail 545	Revision Date Nov. 2013

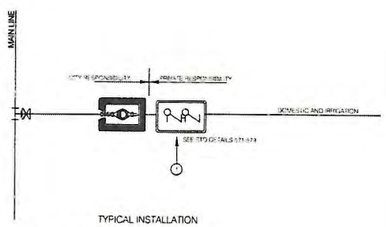


TYPICAL INSTALLATION

DETAIL NOTES:

1. MAIN LINE VALVE REQUIRED BETWEEN FIRE SPRINKLER SERVICE CONNECTION AND THE HYDRANT LEADING THE FIRE DEPARTMENT CONNECTION (FDC).
2. FIRE HYDRANT.
3. FDC LOCATED WITHIN 50 OF FIRE HYDRANT.

City of Bothell	PUBLIC WORKS DEPARTMENT	3" TO 10" NFPA 13D FIRE SPRINKLER SERVICE CONNECTION	Standard Detail 577	Revision Date Feb. 2012

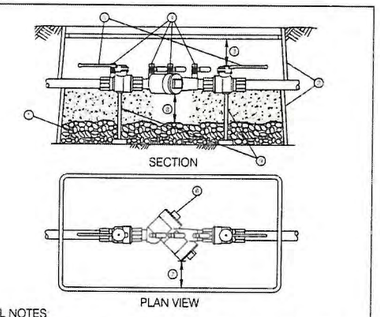


TYPICAL INSTALLATION

NOTES:

1. WA STATE DOUBLE CHECK VALVE ASSEMBLY OR REDUCED PRESSURE BACKFLOW ASSEMBLY (WHICH OVER IS MOST APPROPRIATE) TO BE INSTALLED BEHIND METER SET.
2. WA STATE REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLED PRIOR TO ALL PROCESSES AND WHERE PLUMBING SYSTEM ENTERS THE BUILDING. ASSEMBLY MUST BE ACCESSIBLE.
3. NO CONNECTIONS ARE ALLOWED BETWEEN METER AND INTERNAL ASSEMBLY.

City of Bothell	PUBLIC WORKS DEPARTMENT	PREMISE ISOLATION DOMESTIC AND IRRIGATION SERVICE CONNECTION	Standard Detail 578	Revision Date Feb. 2012



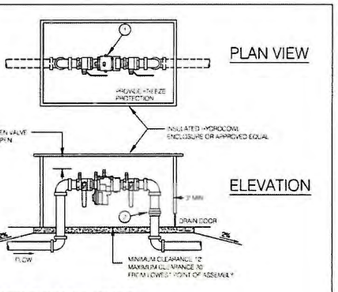
DETAIL NOTES:

1. A "DAYLIGHT" DRAIN SYSTEM CANNOT BE PROVIDED. THEN INSTALL A 6" MINIMUM LAYER OF ½" ROUND WASHED GRAVEL AT THE BOTTOM OF THE BOX.
2. WSDOT STATE METER BOXES STACKED ON TOP OF EACH OTHER OR APPROVED EQUAL FOR 3/4" – 1" USE 1324-12 WITH ONE 1324-D TOP LID FOR 1 1/2" – 2" USE TWO 1324-12 WITH ONE 1419-D TOP LID
3. A MINIMUM DISTANCE OF 12" BETWEEN THE UNDERSIDE OF THE LID AND THE HIGHEST POINT OF THE DEVICE IS REQUIRED.
4. THE DEVICE MUST BE EQUIPPED WITH FOUR RESILIENT SEATED TEST COCKS WITH PLUGS INSTALLED. THE ASSEMBLY MUST ALSO BE INSTALLED WITH THE TEST COCKS FACING UP OR TO THE SIDE.
5. THE DEVICE MUST ALSO BE EQUIPPED WITH TWO RESILIENT SEATED SHUT-OFF VALVES.
6. THE DEVICE MUST BE INSTALLED HORIZONTALLY.
7. A MINIMUM DISTANCE OF 6" BETWEEN THE SIDE OF THE BOX AND THE TEST COCKS WHEN THEY ARE INSTALLED SIDEWAYS.
8. A MINIMUM DISTANCE OF 1' MUST BE BETWEEN THE LOWEST POINT OF THE ASSEMBLY AND THE DRAIN ROCK. FILL BOX WITH FINE GRAVEL OR SAND (NOT TO PROVIDE FREEZE PROTECTION).
9. SUPPORTS WILL BE REQUIRED ON 2" AND LARGER DEVICES AS SHOWN.

NOTES:

1. THE DCVA CHOSEN MUST BE ON THE MOST RECENT WASHINGTON STATE APPROVAL LISTING.
2. THE DCVA MUST BE TESTED BY A WASHINGTON STATE CERTIFIED BACKFLOW ASSEMBLY TESTER AT THE TIME OF INSTALLATION, ANNUALLY, AND WHEN MOVED OR REPAIRED.
3. ALL INSTALLATION MUST MEET MANUFACTURER'S SPECIFICATIONS AND THE MINIMUM STANDARDS OF THE UPC.

City of Bothell	PUBLIC WORKS DEPARTMENT	DOUBLE CHECK VALVE ASSEMBLY IRRIGATION, DOMESTIC or FIRE NFPA 13 R 3/4" TO 2 1/2"	Standard Detail 579	Revision Date Feb. 2012



DETAIL NOTES:

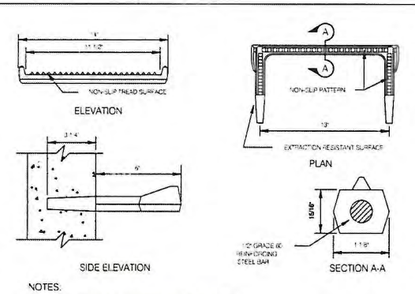
1. STATE APPROVED REDUCED PRESSURE PRINCIPLE BACK FLOW ASSEMBLY
2. UNION FITTING

NOTES :

1. MADE PENETRATIONS TO BE SEALED WITH A WATERTIGHT GROUT, WATERPROOF MASTIC OR FLEXIBLE SEALANT.
2. ACCESS TO BE CENTERED OVER ASSEMBLY.
3. EACH ASSEMBLY SHALL BE EQUIPPED WITH FOUR RESILIENT SEATED TEST COCKS WITH PLUGS INSTALLED AND TIGHT.
4. ENCLOSED RP DEVICES ARE REQUIRED TO MEET SPECIFIC CRITERIA - REVIEWED ON A CASE BY CASE BASIS.
5. PRESSURE RELIEF PORTS MUST BE KEPT CLEAN AND IN GOOD WORKING ORDER AND BE ABLE TO FREELY DISCHARGE TO THE ATMOSPHERE.
6. A MINIMUM OF A 12" CLEARANCE IS REQUIRED BETWEEN THE LOWEST POINT OF THE ASSEMBLY AND THE BOTTOM OF THE ENCLOSURE (MAXIMUM 30").
7. TEE AND A GATE VALVE REQUIRED ON CONNECTION TO MAINLINE.
8. THE R.P.B.A. CHOSEN MUST BE ON THE MOST RECENT WA. STATE APPROVAL LISTING. THE R.P.B.A. MUST BE TESTED BY A WA. STATE CERTIFIED BACK FLOW ASSEMBLY TESTER AT THE TIME OF INSTALLATION, ANNUALLY AND WHEN MOVED OR REPAIRED.

ALL INSTALLATIONS MUST MEET MANUFACTURERS SPECIFICATIONS AND MEET THE MINIMUM STANDARDS OF THE UNIFORM PLUMBING CODE AND MUST CONFORM TO THE REQUIREMENTS AND GUIDELINES OUTLINED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.

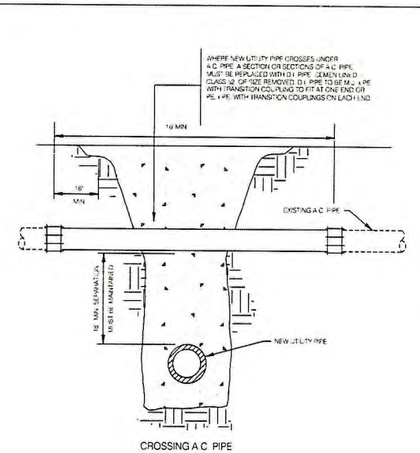
City of Bothell	PUBLIC WORKS DEPARTMENT	RP BACKFLOW ASSEMBLY (UP TO 2") DOMESTIC & IRRIGATION	Standard Detail 591	Revision Date Feb. 2012



NOTES:

1. STEPS SHALL BE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC CONFORMING TO:
   a. ASTM D 4101 AND AASHTO M 270 EXCEPT THAT THE MINIMUM HORIZONTAL PULL-OUT LOAD SHALL BE 1500 LBS.
   b. ASTM A 615 GRADE 60 DEFORMED REINFORCING STEEL BAR.
2. ONLY STEPS APPROVED BY THE ENGINEER SHALL BE USED.
3. ALL FABRICATION DIMENSIONS INDICATED ARE MINIMUM.
4. THE MINIMUM TOTAL CROSS-SECTIONAL AREA OF THE EXPOSED PORTION OF THE STEP, INCLUDING THE 1/2-INCH DEFORMED REINFORCING STEEL BAR AND EXCLUDING THE NON-SLIP TREAD SURFACE, SHALL BE 0.61 SQUARE INCH.
5. THE ENTIRE POLYPROPYLENE PLASTIC MATERIAL SURROUNDING THE REINFORCING STEEL BAR SHALL BE CAST MONOLITHICALLY. MINIMUM COVER SHALL BE 0.16 INCH.
6. THE FOLLOWING DIMENSIONS SHALL APPLY UNLESS OTHERWISE NOTED ON THE DRAWINGS OR STANDARD PLANS FOR SPECIFIC STRUCTURES:
   a. [illegible]
7. STEPS SHALL BE SPACED AT A MAXIMUM OF 12 INCHES.
8. STEPS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED MANUFACTURER'S RECOMMENDED PROCEDURE.

City of Bothell	PUBLIC WORKS DEPARTMENT	POLYPROPYLENE PLASTIC STEPS	Standard Detail 643	Revision Date Feb. 2012



NOTE

IF ASBESTOS CONCRETE (A C) PIPE IS TO BE SAWCUT OR IF THE A C PIPE IS TO REMOVED, ALL ENVIRONMENTAL PROTECTION AGENCY RULES, PUGET SOUND CLEAN AIR AGENCY REGULATIONS AND LABOR AND INDUSTRY REQUIREMENTS MUST BE MET.

City of Bothell	PUBLIC WORKS DEPARTMENT	CROSSING ASBESTOS CONCRETE PIPE	Standard Detail 672	Revision Date Feb. 2012

CONFORMED PLANS

No.	Date	Revision	By	Appr.

BergerABAM
1301 Fifth Avenue, Suite 1200
Seattle, WA 98101
(206) 357-5600 FAX: (206) 357-5601

City of Bothell

Drawn By	Date
HKB	3/13/17
Designed By HKB	3/13/17
Checked By JWA	3/13/17
Approved By RLF	3/13/17

SCALE
Horiz
Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
BOTHELL STANDARDS—SHEET 5

Drawing No. CB5
Sheet No. 77 / 79 of Total

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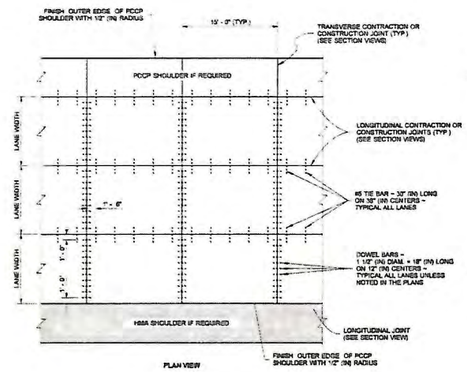
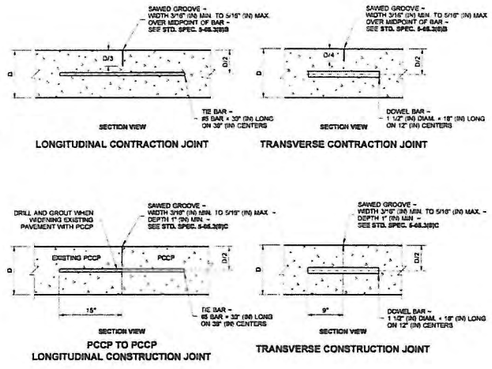
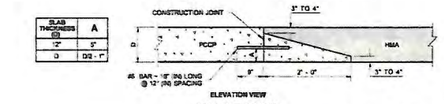
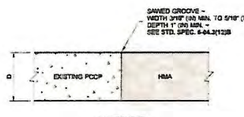


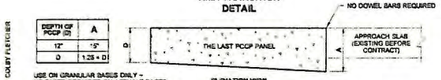


SLAB THICKNESS (D)	A
12"	9"
D	D/2 - 1"





DEPTH OF PCCP (D)	A
12"	12"
D	1.25 x D



DRAWN BY: COLBY FLETCHER

EDWARD J. CARPENTER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

CEMENT CONCRETE PAVEMENT JOINTS

STANDARD PLAN A-40.10-03

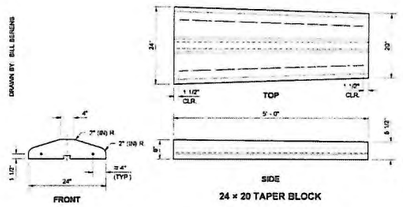
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER — DATE

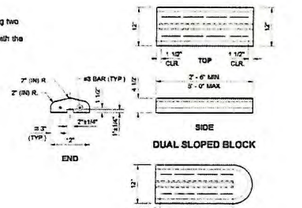
Washington State Department of Transportation

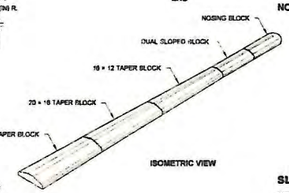
DRAWN BY: BILL BEADING



NOTES

1. The dual faced curb may be constructed by using two precast sloped mountable curbs (longitudinal halves) so long as the installation is consistent with the dimensions shown in the plan
2. Reinforcing steel shall conform to Standard Specification 9-07





EDWARD J. CARPENTER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

PRECAST DUAL FACED SLOPED MOUNTABLE CURB

STANDARD PLAN F-10.64-03

SHEET 1 OF 1 SHEET

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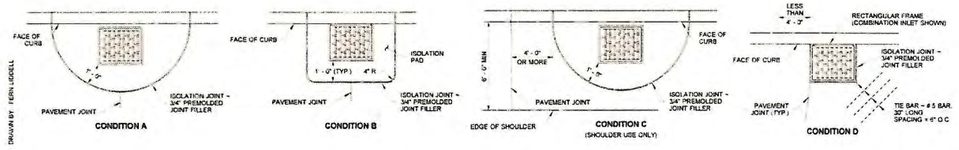

DRAWN BY: FERN LIDDELL

EDWARD J. CARPENTER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

PCC PAVEMENT ISOLATION JOINTS

STANDARD PLAN A-40.15-00

SHEET 1 OF 2 SHEETS

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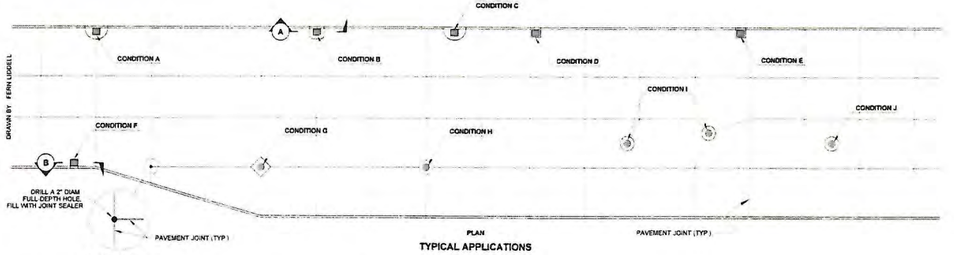
Pasco Bakotich III — 08-11-09

STATE DESIGN ENGINEER — DATE

Washington State Department of Transportation

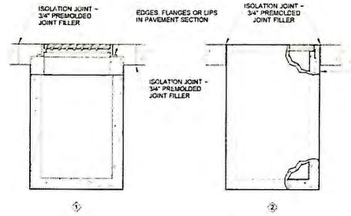


T - JOINT DETAIL

TYPICAL ISOLATION JOINT GUIDELINES

CONDITION	FEATURE	EDGES, FLANGES OR LIPS IN THE PAVEMENT SECTION ①	CONTINUOUS VERTICAL FACE THROUGH THE PAVEMENT SECTION ②	DISTANCE FROM NEAREST TRANSVERSE JOINT
A	CATCH BASIN OR COMBINATION GRATE	USE	—	—
B	CATCH BASIN OR COMBINATION GRATE	USE	—	—
C	CATCH BASIN OR COMBINATION GRATE	USE	—	< 4 FT FROM JOINT
D	GRATE INLET CATCH BASIN OR CONCRETE INLET *	—	USE	< 4 FT FROM JOINT
E	GRATE INLET CATCH BASIN OR CONCRETE INLET *	—	USE	< 4 FT FROM JOINT
F	GRATE INLET CATCH BASIN OR CONCRETE INLET *	—	USE	> 4 FT FROM JOINT
G	MANHOLE OR CATCH BASIN TYPE 2	USE	—	—
H	MANHOLE OR CATCH BASIN TYPE 2	USE	—	—
I	MANHOLE OR CATCH BASIN TYPE 2	USE	—	< 4 FT FROM JOINT
J	MANHOLE OR CATCH BASIN TYPE 2	USE	—	> 4 FT FROM JOINT

* WITH RECTANGULAR GRATE CAST INTO ADJUSTMENT SECTION



EDWARD J. CARPENTER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

PCC PAVEMENT ISOLATION JOINTS

STANDARD PLAN A-40.15-00

SHEET 2 OF 2 SHEETS

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Pasco Bakotich III — 08-11-09

STATE DESIGN ENGINEER — DATE

Washington State Department of Transportation

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City of Bothell™

Drawn By HKB	Date 3/13/17	SCALE
Designed By HKB	3/13/17	Horiz
Checked By JWA	3/13/17	Vert
Approved By RLF	3/13/17	Project Number A15.0150

CITY OF BOTHELL

MAIN STREET ENHANCEMENT

BOTHELL STANDARDS—SHEET 6

Drawing No. CB6

Sheet No. 78 / 79 of Total

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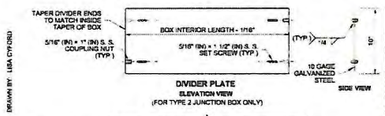
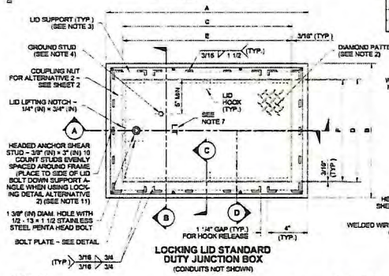
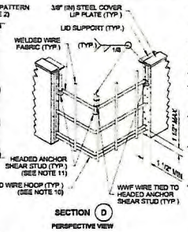


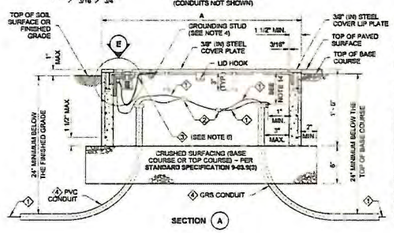
JUNCTION BOX DIMENSION TABLE			
MARK	ITEM	BOX TYPE	
		TYPE 1	TYPE 2
A	OUTSIDE LENGTH OF JUNCTION BOX	22"	33"
B	OUTSIDE WIDTH OF JUNCTION BOX	17"	22 1/2"
C	INSIDE LENGTH OF JUNCTION BOX	18" - 1/8"	29" - 29"
D	INSIDE WIDTH OF JUNCTION BOX	13" - 1/4"	17" - 1/8"
E	LID LENGTH	17 5/8"	28 5/8"
F	LID WIDTH	12 5/8"	18 1/8"
	CAPACITY - CONDUIT DIAMETER	6"	12"





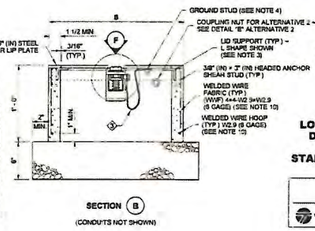
NOTES

1. All box dimensions are approximate. Exact configurations vary among manufacturers.
2. Minimum lid thickness shown. Junction Boxes installed in sidewalks, walkways, and shared-use paths shall have a slip-resistant coating on the lid and lip cover plate, and shall be installed with the surface flush with and matched to the grade of the sidewalk, walkway, or shared-use path. The non-slip lid shall be identified with permanent markings on the underside, indicating the type of surface treatment (see Contract Documents for details) and the year of manufacture. The permanent marking shall be 1/8" (in) line thickness formed with a mild steel weld bead and shall be placed prior to hot-dip galvanizing.
3. Lid support members shall be 3/16" (in) minimum thick steel C, L, or T shape, welded to the frame.
4. A 1/4-20 NC × 3/4" (in) stainless steel ground stud shall be welded to the bottom of the lid; include (2) stainless steel nuts and (2) stainless steel flat washers.
5. Bolts and nuts shall be liberally coated with anti-seize compound.
6. Equipment Bonding Jumper shall be # 8 AWG min. × 4' (ft) of tinned braided copper.
7. The System Identification letters shall be 1/8" (in) line thickness formed with a mild steel weld bead. See Cover Marking detail. Grind off diamond pattern before forming letters. For System Identification details, see Standard Specification 9-29.2(4).
8. When required in the Contract, provide a 10" (in) x 27 1/2" (in), 10 gage divider plate, complete, with fasteners, in each Type 2 Junction Box where specified.
9. When required in Contract, provide a 12" (in) deep extension for each Type 2 Junction Box where specified.
10. See the Standard Specifications for alternative reinforcement and class of concrete.
11. Headed Anchor Shear Studs must be welded to the Steel Cover Lip Plate and wire tied in two places to the vertical Welded Wire Fabric when in contact with each other. Wire tie all other Headed Anchor Shear Studs to the horizontal Welded Wire Fabric.
12. Lid Bolt Down Attachment Tab provides a method of retrofitting by using a mechanical process in lieu of welding. Attachment Tab shown depicts a typical component arrangement; actual configurations of assembly will vary among manufacturers. See approved manufacturers' shop drawings for specifics.
13. Unless otherwise noted in the plans or approved by the Engineer, Junction Boxes, Cable Vaults, and Pull Boxes shall not be placed within the sidewalks, walkways, shared use paths, traveled ways or paved shoulders. At Junction Boxes, Cable Vaults, and Pull Boxes placed within the traveled way or paved shoulders shall be Heavy-Duty.
14. Distance between the top of the conduit and the bottom of the Junction Box lid shall be 6" (in) min. to 8" (in) max. for final grade of new construction only. See Standard Specification 8-23.3(6). Where adjustments are to be made to existing Junction Boxes, or for interim construction stages during the contract, the limits shall be from 6" (in) min. to 10" (in) max. See Standard Specification 8-23.3(6).



1. Equipment Grounding Conductor
2. Copper Solderless Crimp Connector
3. Equipment Bonding Jumper (See Note 6)
4. See Contract for conduit size and number

COVER MARKING DETAIL



LOCKING LID STANDARD DUTY JUNCTION BOX TYPES 1 & 2 STANDARD PLAN J-40.10-04

SHEET 1 OF 2 SHEETS

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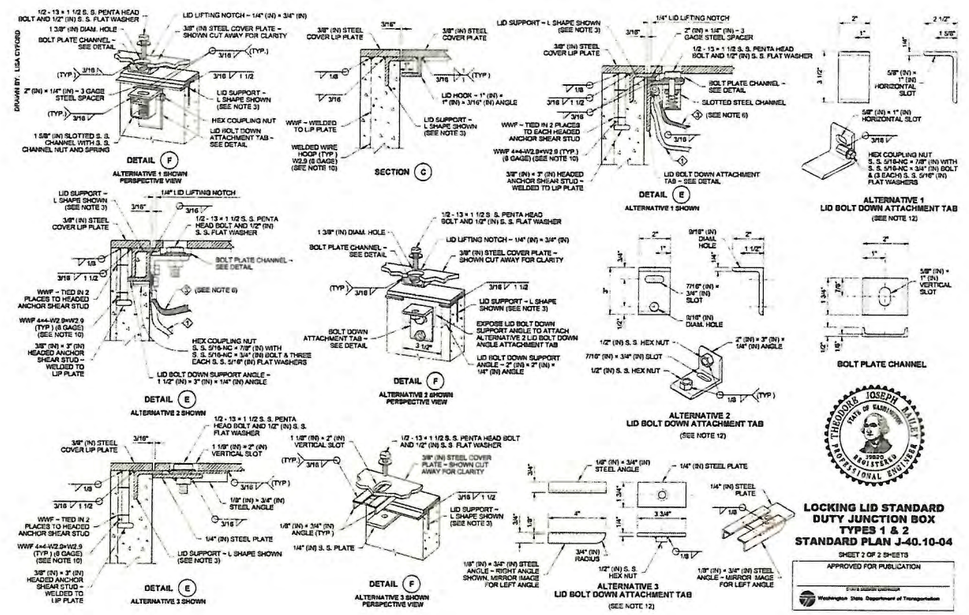

LOCKING LID STANDARD DUTY JUNCTION BOX TYPES 1 & 2 STANDARD PLAN J-40.10-04

SHEET 2 OF 2 SHEETS

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City of Bothell™

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Designed By	HKB	3/13/17
Checked By	JWA	3/13/17
Approved By	RLF	3/13/17

SCALE
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Vert
Project Number A15.0150

CITY OF BOTHELL
MAIN STREET ENHANCEMENT
BOTHELL STANDARDS—SHEET 7

Drawing No. CB7
Sheet No. 79 / 79 of Total

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