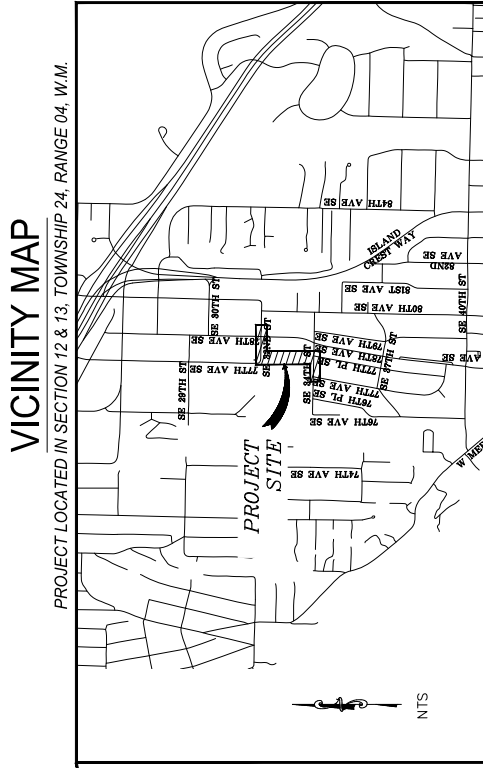
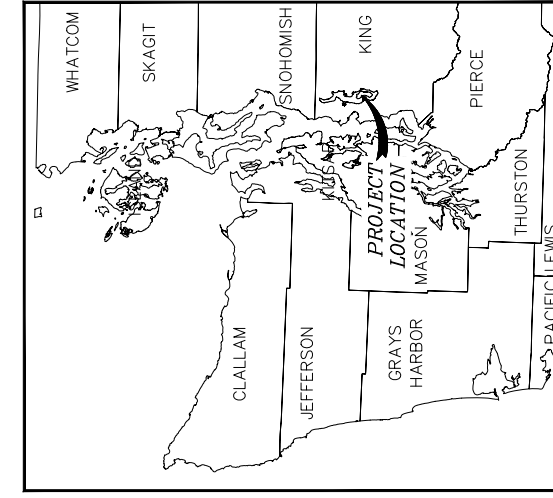






BASIN 61 SEWER PIPE UPSIZING PROJECT MERCER ISLAND, WA CITY - PROJECT NO. 23-03



SHEET	DESCRIPTION
1	COVER
2	GENERAL NOTES
3	TESS DETAILS
4	SITE KEY MAP
5	DEMOLITION AND RESTORATION - 1
6	DEMOLITION AND RESTORATION - 2
7	PLAN AND PROFILE - SE 34TH ST
8	PLAN AND PROFILE - MERCEDALE PARK
9	PLAN AND PROFILE - SE 32ND ST
10	SEWER AND RESTORATION DETAILS
11	SEWER BYPASS PLAN
12	TRAFFIC CONTROL PLAN
13	SE 34TH ST DETOUR PLAN

NO. _____

REVISION _____

BY _____

DATE _____

CAD TECH: J. NORMAN SCALE: H: N/A

CAD REVIEW: E. VANVA V: N/A

DESIGNER: J. ANDRESEN VERTICAL DATUM: NAVD 83

DESIGN REVIEW: K. STABEL DATE: 01/23/23

CITY PROJECT: 23-03

RAE PROJECT: 22003

SEC 1213

TWN 124N

RNG R4E

1

BASIN 61 SEWER PIPE UPSIZING PROJECT

COVER

1 of 13

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF CHAPTER 19.122 RCW.
2. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE PLANS AND PROJECT SPECIFICATIONS.
3. THE CONTRACTOR SHALL NOTIFY THE CITY REPRESENTATIVE(S) A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY TESTING OR REQUIRED INSPECTION.
4. WORK IDENTIFIED ON THESE PLANS AND ASSOCIATED CONSTRUCTION DOCUMENTS INCLUDE WORK ON AN EXISTING PUBLIC SANITARY SEWER SYSTEM. THE EXISTING SANITARY SEWER SYSTEM MUST BE TEMPORARILY BYPASSED AS SPECIFIED DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE PUMPS CAPABLE OF HANDLING THE ANTICIPATED FLOWS. NOTIFY CITY SEWER DEPARTMENT FIVE WORKING DAYS IN ADVANCE OF BYPASSING FLOWS.
5. CONTRACTOR SHALL SUBMIT AND IMPLEMENT AN APPROVED BYPASS PLAN. BYPASS PLAN MUST BE RECEIVED AND ACCEPTED PRIOR TO IMPLEMENTATION. REFER TO THE PROJECT SPECIFICATIONS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITY WITH ALL STAKEHOLDERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INVESTIGATING AND ASCERTAINING THE REQUIREMENTS OF THE APPROPRIATE PUBLIC AUTHORITIES.
7. EXISTING IMPROVEMENTS REMOVED OR DISTURBED DURING THE WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. ALL RESTORATION SHALL BE MADE AT CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL EXERCISE DUE CARE TO PROTECT PROPERTY AND THE WORK. THE PROJECT SHALL BE SUPERVISED TO ENSURE PROPERTY IS PROTECTED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY OR WORK.
9. ALL WORK SHALL BE PERFORMED WITH DUE REGARD TO THE SAFETY AND CONVENIENCE OF THE PUBLIC AND IN A MANNER THAT MINIMIZES INTERFERENCE WITH ALL AUTOMOTIVE, BICYCLE AND PEDESTRIAN TRAFFIC. CERTIFIED FLAGGING PERSONNEL, BARRICADES, SIGNS AND TRAFFIC CONTROL SHALL BE FURNISHED AS REQUIRED BY SPECIFICATION. EMERGENCY VEHICLES SHALL BE PROVIDED ACCESS AT ALL TIMES.
10. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK, AND FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL SAFETY LAWS AND REGULATION AT ALL TIMES.
11. LIMIT WORK AREA TO EXISTING EASEMENT, PUBLIC RIGHT OF WAY, AND WITHIN THE LIMITS OF CONSTRUCTION SHOWN ON THESE CONSTRUCTION DRAWINGS. MINIMIZE WORK AREA AND IMPACT TO RESIDENTS AND TRAFFIC.
12. SEGMENTS OF THE WORK MAY BE PERFORMED UNDER HIGH VOLTAGE ELECTRICAL OVERHEAD POWER LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE WORK IN A SAFE MANNER AND IN ACCORDANCE WITH ANY REQUIREMENTS SET FORTH BY THE UTILITY OWNER AND APPLICABLE LAWS AND REGULATIONS.
13. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY AND FOLLOW CITY PROCEDURES AND THE REQUIREMENTS OF THE PROJECT MANUAL FOR ALL WATER AND SIDE SEWER INTERRUPTIONS, HYDRANT SHUTOFFS, STREET CLOSURES OR OTHER ACCESS RESTRICTIONS. CONTACT RESIDENTS 72 HOURS IN ADVANCE OF SIDE SEWER INTERRUPTIONS.
14. EXISTING DRAINAGE DITCHES, CULVERTS, ETC., SHALL BE KEPT CLEAN AT ALL TIMES. TEMPORARY DIVERSION OF ANY DRAINAGE PIPE WILL NOT BE PERMITTED WITHOUT THE CONSENT OF THE ENGINEER.
15. TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES SHALL BE EMPLOYED TO PROTECT ADJACENT PROPERTY AND STORM DRAINAGE FACILITIES.
16. FINAL CLEANUP SHALL CONSIST OF COMPLETE RESTORATION OF THE PROJECT SITE TO PRE-EXISTING CONDITION, INCLUDING SHOULDERS, CLEANING OF DITCHES, CULVERTS AND REMOVAL OF LOOSE MATERIAL FROM BACK SLOPES OF DITCHES.
17. CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS AND PROVISIONS OF APPLICABLE CITY OF MERKER ISLAND CODES FOR THE RIGHT OF WAY USE PERMIT.
18. A COPY OF THE APPROVED PLANS AND THE PROJECTS SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
19. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY EXCAVATION. CALL (811) AT LEAST FIVE WORKING DAYS IN ADVANCE.
20. THE CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS IN ADVANCE AS SET FORTH IN THE GENERAL REQUIREMENTS. THE CONTRACTOR SHALL FIELD VERIFY THE POINTS OF CONNECTION AND SHALL FIELD VERIFY AND COORDINATE THE WORK PER THE PROJECT SPECIFICATIONS.
21. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES, INCLUDING SERVICE CONNECTIONS, WHICH MAY OR MAY NOT HAVE BEEN MARKED BY THE RESPECTIVE UTILITY OWNERS AND WHICH THE CONTRACTOR BELIEVES MAY AFFECT OR BE AFFECTED BY THE CONTRACTOR'S OPERATIONS. THE CONTRACTOR SHALL NOT BE ENTITLED TO ADDITIONAL COMPENSATION OR TIME EXTENSIONS FOR WORK NECESSARY TO AVOID INTERFERENCES NOR FOR REPAIRS TO DAMAGED UTILITIES. THE CONTRACTOR SHALL EXERCISE UTMOST CARE IN ALL EXCAVATIONS TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND PROVIDE ADEQUATE SUPPORT AND PROTECTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR BOTH THE COORDINATION AND RELOCATION OF ALL UTILITIES AS REQUIRED BY THE UTILITY COMPANIES IN ADDITION TO THOSE SPECIFIED ON THE PLANS.
22. TO REMOVE EXISTING ASBESTOS CEMENT PIPE FROM THE TRENCH AND MANHOLES, A FEE AND PERMIT IS REQUIRED FROM THE PUGET SOUND AIR POLLUTION CONTROL AGENCY. IN ADDITION, WASHINGTON STATE DEPARTMENT OF LABOR AND INDUSTRIES REQUIRES OPERATORS REMOVING ASBESTOS TO BE CERTIFIED.
23. NOISE RESTRICTIONS ENFORCED OUTSIDE OF WORKING HOURS 7AM-7PM MONDAY TO FRIDAY, AND 9AM-5PM SATURDAY, FOR NOISE FROM GENERATORS ASSOCIATED WITH FLOW BYPASS OR OTHER CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL OBTAIN A NOISE ORDINANCE PERMIT.
24. PRIOR TO REMOVING TREES, WHERE SHOWN, IF REQUIRED BY CONTRACTOR-SIZED INSERTION PITS, CONTRACTOR SHALL OBTAIN A CITY OF MERKER ISLAND TREE PERMIT. TREE REMOVAL AND PLANTING WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE TREE PERMIT AND PROJECT SPECIFICATIONS.

ABBREVIATIONS

- AC = ASBESTOS CEMENT
- APPROX = APPROXIMATE
- BDD = BUILDING
- C&G = CURB & GUTTER
- C&TV = CABLE TELEVISION
- CI = CAST IRON
- CP = CAST POLYPROPYLENE
- CP = CORRUGATED METAL PIPE
- COMP = COMPACTED
- CONC = CONCRETE
- CPSSP = CORRUGATED POLYETHYLENE STORM SEWER PIPE
- CU/V = CULVERT
- DEC = DECEASED
- DI = DI
- LOC = LOCATION
- LP = LEAK POINT
- MAX = MAXIMUM
- MIN = MINIMUM
- MOD = MODIFIED
- F&C = FRAME & COVER
- F&G = FRAME & GRATE
- FDC = FIRE DEPARTMENT CONNECTION
- FG = FINISH GRADE
- FL = FLANGE
- FL = FOUND
- FT = FEET
- FT = FEET PER FOOT
- FT = GALVANIZED
- GRV = GRAVEL
- GV = GATE VALVE
- HPPE = HIGH DENSITY POLYETHYLENE
- HYD = HYDRANT
- HYD = INLET PROTECTION
- IE, INV = INVERT ELEVATION
- LDSC = LANDSCAPING
- LF = LINEAR FEET
- LOC = LOCATION
- LP = LEAK POINT
- MAX = MAXIMUM
- MIN = MINIMUM
- MOD = MODIFIED
- MON = MONUMENT
- MTR = METER
- MW = MONITORING WELL
- N/A = NOT APPLICABLE
- NE = NORTHWEST
- NTS = NOT TO SCALE
- PAVMT = PAVEMENT
- FED = PEDESTAL
- POSS = POSSIBLE
- PVC = POLYVINYL CHLORIDE
- PWR = POWER
- R = RADIUS
- RET = RETAINING WALL
- RT = RIGHT
- R&C = RING & COVER
- S = SOUTH
- SDO = STORM DRAIN
- SDOO = STORM DRAIN CLEAN OUT
- SDOB = STORM DRAIN CATCH BASIN
- SDMH = STORM DRAIN MANHOLE
- SE = 300 FEET
- SN = EXISTING SIGN
- SP = STANDARD PLAN
- SSO = SANITARY SEWER MANHOLE
- SSA = STATION
- STD = STANDARD
- TRC = TOP BACK OF CURB
- TEL = TELEPHONE
- TEMP = TEMPORARY
- TYP = TYPICAL
- UNK = UNKNOWN
- VLT = VALLT
- W = WATER METER / WATER MAIN
- WM = WATER MAIN

LEGEND

- EXISTING STREET LIGHT ASSEMBLY
- EXISTING POWER VAULT
- EXISTING JOCK
- EXISTING UTILITY POLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING IRRIGATION VALVE
- EXISTING TELEPHONE PEDESTAL
- EXISTING MAIL BOX
- EXISTING MAIL AND SHINER
- EXISTING MONUMENT (IN CASE)
- EXISTING STORM DRAIN CATCH BASIN TYPE 1/INLET
- EXISTING STORM DRAIN CATCH BASIN TYPE 2
- EXISTING MANHOLE
- EXISTING TREE
- PROPOSED TREE
- PROPOSED SS OR SD PIPE COUPLER
- SEWER FLOW DIRECTION
- INLET PROTECTION - CB INSERT, SEE DETAIL ON SHEET 3
- EXISTING RIGHT OF WAY
- EXISTING DITCH & CATCH BASIN
- EXISTING MINOR CONTOUR
- EXISTING TOP OF BANK
- EXISTING WALL
- EXISTING PROPERTY BOUNDARY
- EXISTING RIGHT OF WAY
- EXISTING STRIPE
- EXISTING ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING FLOWLINE
- EXISTING TOP BACK OF CURB
- EXISTING SIDEWALK
- EXISTING BURIED POWER
- EXISTING OVERHEAD POWER
- EXISTING OVERHEAD COMMUNICATIONS
- EXISTING BURIED GAS MAIN
- EXISTING WATER MAIN
- EXISTING SANITARY SEWER
- EXISTING STORM DRAIN
- EXISTING TREE LINE
- EXISTING CONCRETE
- PROPOSED SANITARY SEWER BURSTING STATION LINE
- PROPOSED CURB AND GUTTER
- PROPOSED HIGH VISIBILITY FENCE. SEE DETAIL ON SHEET 3
- PROPOSED SANITARY SEWER BYPASS

SEGMENT	UPSTREAM MH	DOWNSTREAM MH	LENGTH (FEET)	EXISTING PIPE	INSTALL	NO. SERVICE RECONNECTIONS
1	61-131	61-143	218	8" CONC	14" OD DR17.4710 HDPE IPS	3
2	61-143	61-197	148	10" AC	14" OD DR17.4710 HDPE IPS	2
3	61-197	61-198	274	10" AC	14" OD DR17.4710 HDPE IPS	0
4	61-198	61-199	234	10" AC	14" OD DR17.4710 HDPE IPS	1
5	61-200	61-199	251	10" AC	16" OD DR17.4710 HDPE IPS	0

PIPE BURSTING SCHEDULE

MH	DEPTH CHANNEL INVERT (FEET)	DIAMETER (INCH)	REQUIRED ACTION (SEE DRAWING NOTES)
61-131	6.59	48	REMOVE AND REPLACE
61-143	6.53	48	REMOVE AND REPLACE
61-197	8.48	48	REMOVE AND REPLACE
61-198	13.34	48	PROTECT IN PLACE
61-199	11.38	48	PROTECT IN PLACE
61-200	8.56	48	PROTECT IN PLACE


CAD TECH: J. NORMAN SCALE: H: N/A
 E. VAVRA V: N/A
 CAD REVIEW: J. ANDRESEN, VERTICAL DATUM, NAD(83)
 DESIGNER: K. STAHLEI DATE: 01/23/23
 DESIGN REVIEW: CITY PROJECT#: 2503
 RAE PROJECT#: 22003

2


**BASIN 61
SEWER PIPE UPSIZING
PROJECT**

GENERAL NOTES


2 of 13



CITY OF MERKER ISLAND
SPRINGFIELD

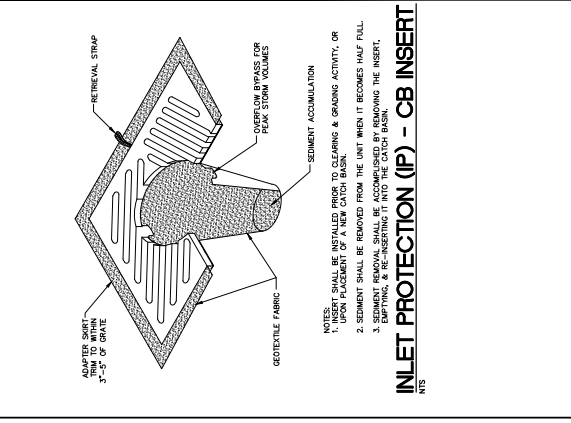


STAHLEI
TRENCHLESS
CONSULTANTS



R&E Reichenhardt & Ebe
ENGINEERING INC
P.O. Box 971, 1408 Front Street
Lynnwood, WA 98037 (206) 354-0887

BID SET



INLET PROTECTION (IP) - CB INSERT

1. INSERT SHALL BE INSTALLED PRIOR TO CLEANING & GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
3. INSERT SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION, AND RE-INSTALLING IT INTO THE CATCH BASIN.

NOTES

1. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.

2. UPON PLACEMENT OF A NEW CATCH BASIN, INSERT SHALL BE RE-INSTALLED INTO THE CATCH BASIN.

3. UPON COMPLETION OF CONSTRUCTION, RE-INSTALLING IT INTO THE CATCH BASIN.

4. INSERT SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION, AND RE-INSTALLING IT INTO THE CATCH BASIN.

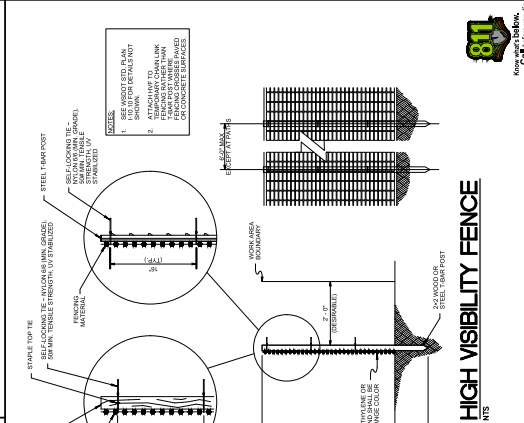
CONSTRUCTION SWPPP ELEMENTS

THIS PLAN PROVIDES THE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL ADAPT THE PLAN IN ORDER TO PREVENT EROSION AND SEDIMENT CONTROL. THE PLAN SHALL BE SUBJECT TO INSPECTION BY THE ENGINEER AND/OR THE CITY OF MERCER ISLAND PUBLIC WORKS DEPARTMENT.

CONSTRUCTION (UNLESS ALL ITEMS SHALL BE EXCEPT BY A CHECK AND BE SUBJECT TO INSPECTION BY THE ENGINEER AND/OR THE CITY OF MERCER ISLAND PUBLIC WORKS DEPARTMENT.

CONSTRUCTION ELEMENTS SHALL BE SUBJECT TO INSPECTION BY THE ENGINEER AND/OR THE CITY OF MERCER ISLAND PUBLIC WORKS DEPARTMENT.

1. PRESERVE VEGETATION AND CLEARING LIMITS.
 - A. PRESERVE VEGETATION AND CLEARING LIMITS. PRESERVE VEGETATION AND CLEARING LIMITS SHALL BE PRESERVED WITHIN THE CONSTRUCTION CORRIDOR. PRESERVE VEGETATION AND CLEARING LIMITS SHALL BE PRESERVED WITHIN THE CONSTRUCTION CORRIDOR.
 - B. PRESERVE VEGETATION AND CLEARING LIMITS. PRESERVE VEGETATION AND CLEARING LIMITS SHALL BE PRESERVED WITHIN THE CONSTRUCTION CORRIDOR. PRESERVE VEGETATION AND CLEARING LIMITS SHALL BE PRESERVED WITHIN THE CONSTRUCTION CORRIDOR.
2. STABILIZE CHANNELS AND OUTLETS.
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HIGH VISIBILITY FENCE

1. THE MAXIMUM EXPOSURE TO THE ROAD SHALL BE LIMITED TO 50 FEET.
2. THE FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING OR CONSTRUCTION ACTIVITY.
3. THE FENCE SHALL BE MAINTAINED AT ALL TIMES AND REPAIRED AS NECESSARY.
4. THE FENCE SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.

NOTES

1. THE FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING OR CONSTRUCTION ACTIVITY.

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TESC GENERAL NOTES

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NO.	REVISION	BY	DATE
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CAD TECH	J. NORMAN	SCALE	N/A
CAD REVIEW	E. VAJRA	V	N/A
DESIGNER	E. VAJRA	VERTICAL DATUM	NAVD 83
DATE	01/21/22	DATE	01/21/22
CITY PROJECT	N. ZIL STRA	DATE	21-68
PROJECT	REPROJECT	SEC	TWN
RANGE	22003	RNG	R4E

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12500 1st Avenue, Suite 100, Lynnwood, WA 98037

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BID SET

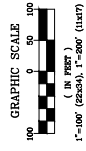
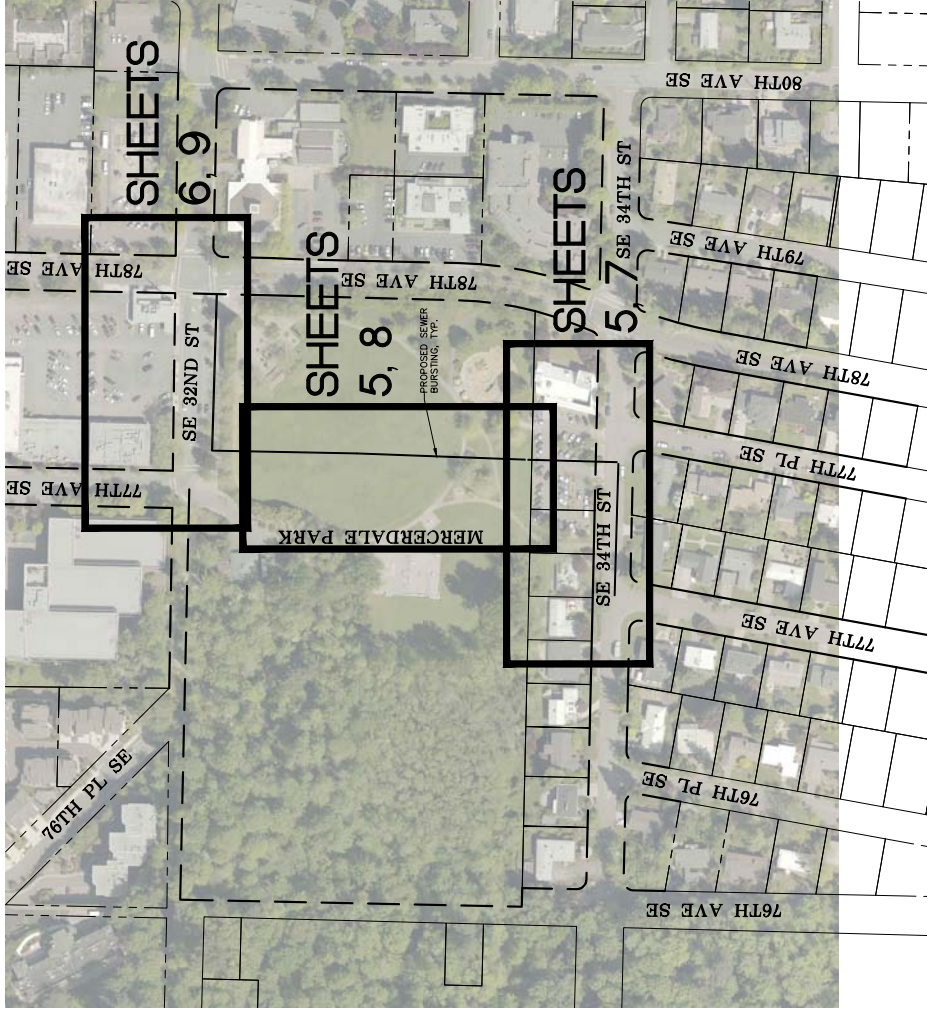
NO.	REVISION	BY	DATE
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BID SET

BASIN 61 SEWER PIPE UP-SIZING PROJECT

TESC DETAILS

3 of 13



NO.	REVISION	BY	DATE



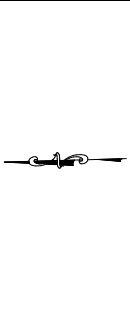
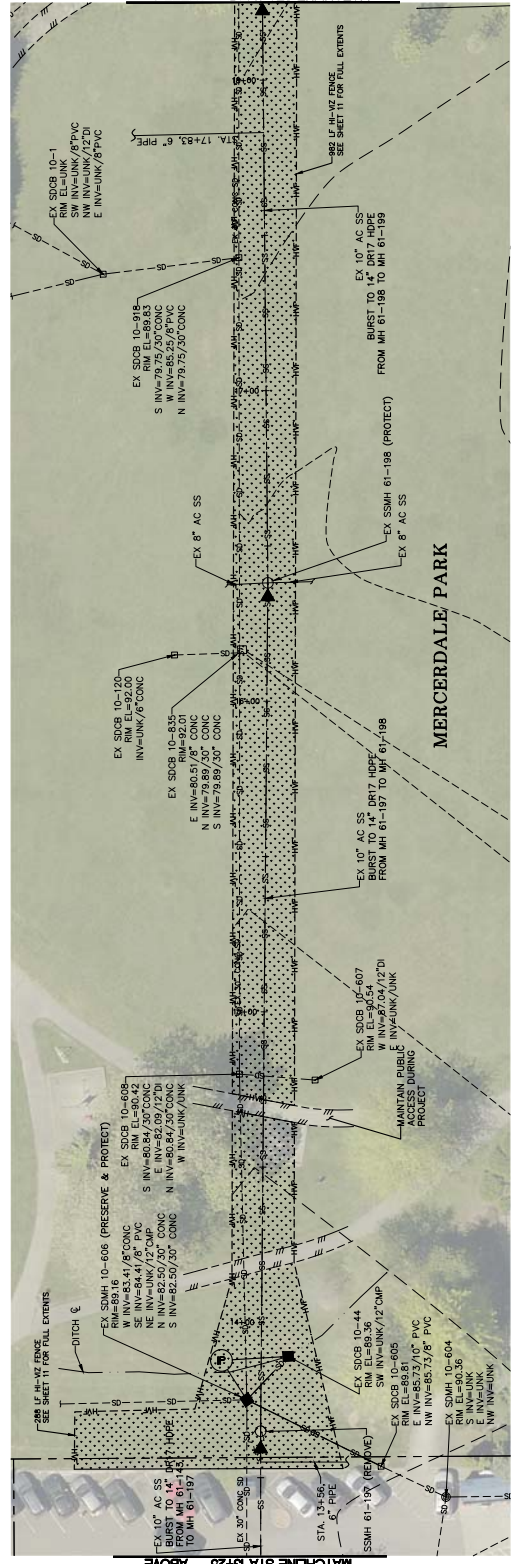
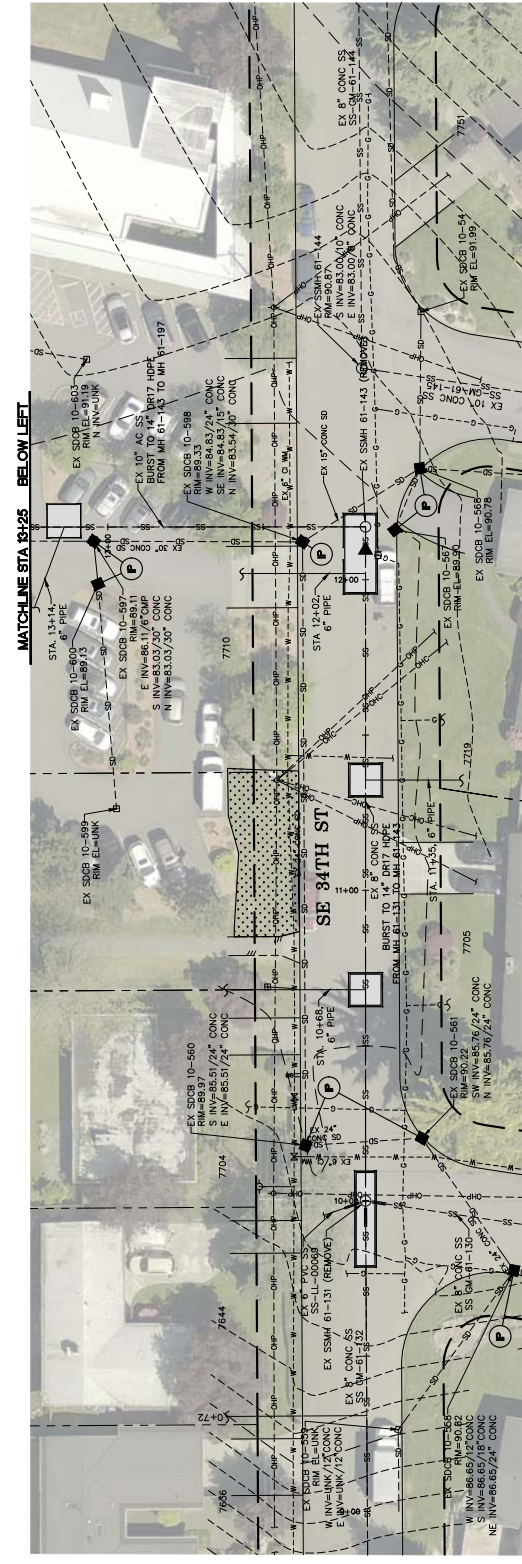
RUE Reichhardt & Ebe
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 P.O. Box 6781428 Front Street
 Lynden, WA 98284 (360) 354-0987

BID SET



CAD TECH: J. NORMAN SCALE: H: 1"=100'
 CAD REVIEW: E. VANRA V: N/A
 DESIGNER: J. ANDRESEN VERTICAL DATUM: NAVD 83
 DESIGN REVIEW: K. STACHELI DATE: 01/23/23
 CITY PROJECT#: 2549
 SEC: TWIN RING
 T24N R4E
 22003
 RAE PROJECT#: 200303

**BASIN 61
 SEWER PIPE UPSIZING
 PROJECT**
 SITE KEY MAP







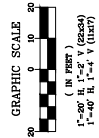
GRAPHIC SCALE
 0 10 20
 (IN FEET)
 1"=20' H, 1"=2' V (cross)
 1"=40' H, 1"=4' V (right)

- LEGEND:**
- = EXISTING CONC. SIDEWALK DEMOLITION W/ PCC SAWCUTTING, RESTORE W/ CONC. PER DETAIL 10 AND WSDOT STD PLAN F-40.15
 - = EXISTING CONC. SIDEWALK AND ASPHALT PAVEMENT DEMOLITION W/ ASPHALT PER DETAILS ON SHEET 10
 - = EXISTING SOD GRUBBING LIMIT TO PIT EXCAVATIONS AND AREAS ACTIVITIES. RESTORE W/ SOD ON 1' DEEP TOPSOIL TYPE A, TO BE PAD BY FORCE ACCOUNT

NOTE:
 ALL TREES, VEGETATION, LIGHT POLES, AND UTILITIES TO BE PROTECTED UNLESS NOTED OTHERWISE.



NO.	REVISION	BY	DATE								J. NORMAN SCALE: H: 1"=20' V: 1"=2' E. VANRA J. ANDRESEN, VERTICAL DATUM, NAD 83 K. STAHNELI, DATE: 01/23/23 DATE: 25/3 SEC: 253 TWIN: 22003 RING: 1213 RHE: 124N	BASIN 61 SEWER PIPE UPSIZING PROJECT	5
				DEMOLITION AND RESTORATION - 1							5 of 13		



LEGEND:

- = EXISTING CONC. SIDEWALK
- = EXISTING CONC. CURB
- = EXISTING CONC. GUTTER
- = EXISTING CONC. CURB AND GUTTER
- = EXISTING CONC. CURB AND GUTTER W/ ASPHALT
- = EXISTING CONC. CURB AND GUTTER W/ ASPHALT AND SIDEWALK
- = EXISTING CONC. CURB AND GUTTER W/ ASPHALT AND SIDEWALK AND UTILITY
- = EXISTING CONC. CURB AND GUTTER W/ ASPHALT AND SIDEWALK AND UTILITY AND TREE
- = EXISTING CONC. CURB AND GUTTER W/ ASPHALT AND SIDEWALK AND UTILITY AND TREE AND UTILITY
- = EXISTING CONC. CURB AND GUTTER W/ ASPHALT AND SIDEWALK AND UTILITY AND TREE AND UTILITY AND UTILITY

NOTE: ALL UTILITIES, STRUCTURES, LIGHT POLES, AND SIGNAGE SHALL BE PRESERVED AND PROTECTED UNLESS NOTED OTHERWISE.



MATCHLINE STA 8425 SHEET 5



6
DEMOLITION AND RESTORATION - 2

**BASIN 61
SEWER PIPE UPSIZING
PROJECT**

NO. REVISION BY DATE

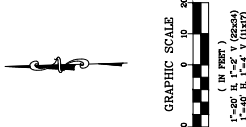
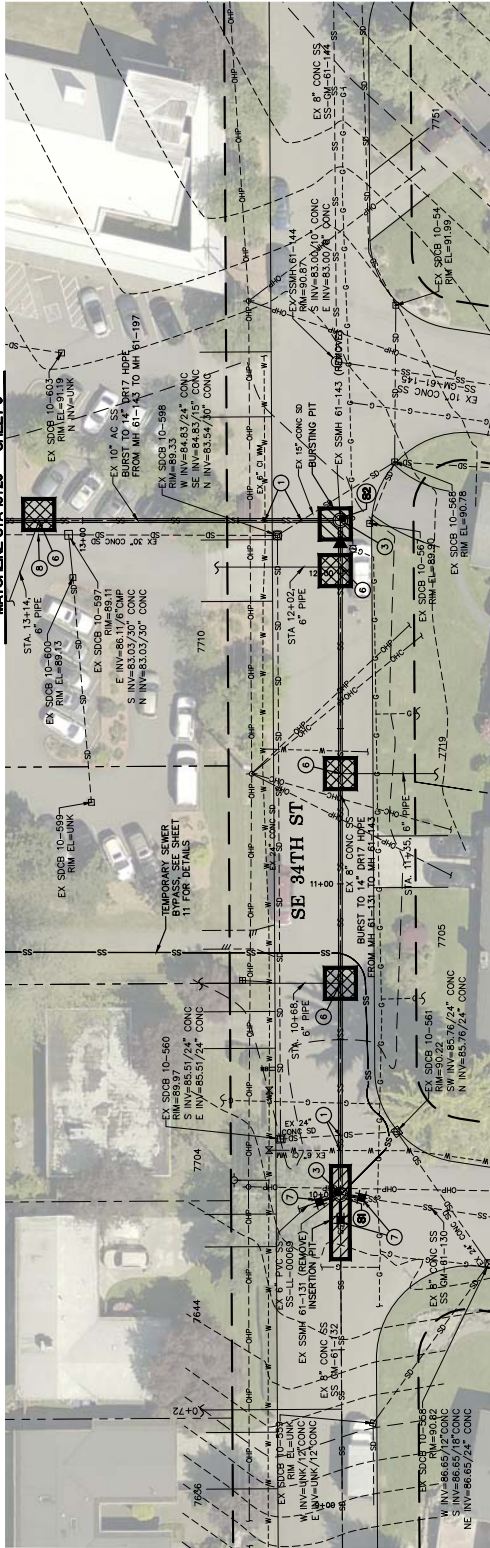
NO.	REVISION	BY	DATE

Redhardt & Ebe
ENGINEERING INC
P.O. Box 674, 1403 Front Street
Lynnwood, WA 98204 (206) 354-0887

BID SET

NO.	REVISION	BY	DATE

CAD TECH: J. NORMAN SCALE: H: 1"=20'
 V: 1"=2'
 CAD REVIEW: E. VAVRA VERTICAL DATUM NAVD83
 DESIGNER: J. ANDRESEN
 DESIGN REVIEW: K. STAHELI DATE: 01/23/23
 CITY PROJECT: 2549
 SEC: TWIN RING
 1213 124N
 22003 RAE PROJECT



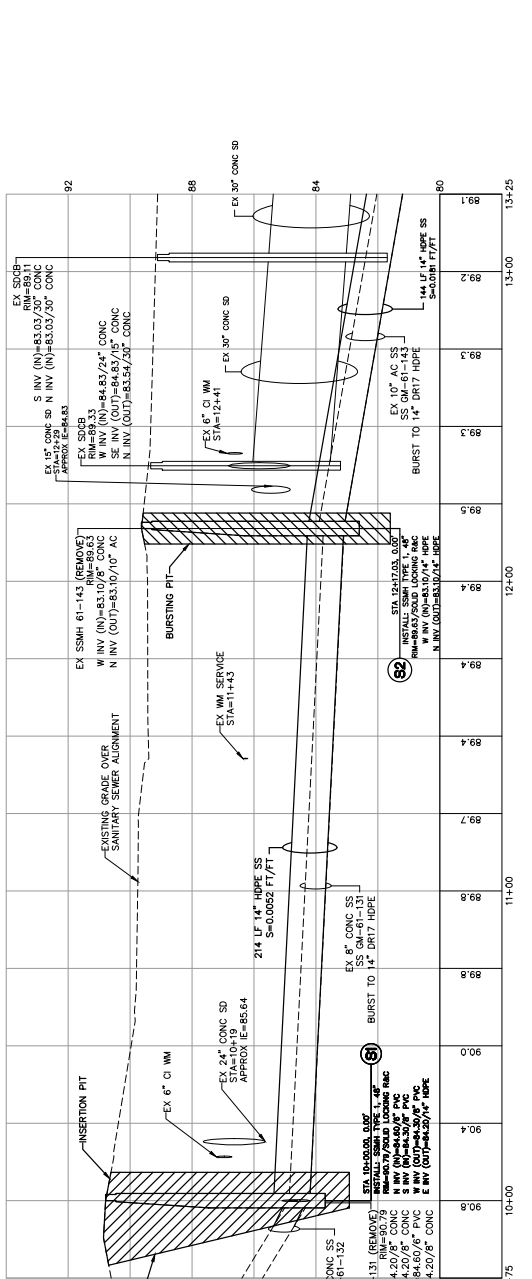
- LEGEND:**
- = BURSTING OR INSERTION PIT
 - = SEWER SERVICE CONNECTION PIT

KEY NOTES:

1. POTHOLE AND PROTECT EXISTING UTILITY PRIOR TO BURSTING.
2. PROTECT EXISTING MANHOLE IN PLACE. REMOVE SIDEWALK AND CHANNEL INVERT PRIOR TO BURSTING. PULL BURST HEAD AND HOPE PIPE THROUGH MANHOLE. AT COMPLETION OF BURST, MORTAR, RESURFACE MANHOLE CHANNEL TO PROVIDE A SMOOTH TRANSITION BETWEEN SEWER PIPE AND THE CHANNEL. DEMOLISH AND REMOVE EXISTING MANHOLE. INSTALL NEW MANHOLE PER DETAILS ON SHEET 10.
3. PROTECT EXISTING MANHOLE IN PLACE. CONNECT HOPE PIPE AND REFURBISH CHANNEL TO PROVIDE A SMOOTH TRANSITION BETWEEN HOPE SEWER INVERT AND THE MANHOLE CHANNEL.
4. INSTALL INSIDE DROP PER COMI STANDARD SEWER DETAIL S-11 ON SHEET 10.
5. DISCONNECT SEE SERVICES PRIOR TO BURSTING. RECONNECT SERVICES PER DETAIL ON SHEET 10.
6. REMOVE LAST 4 LF OF EX. SS PIPE OR LAST 10 LF OF EX. SD PIPE AND REPLACE W/ PVC PIPE OF SIMILAR LENGTH, DIAMETER AND SLOPE. INSTALL PVC INTO REPLACED SS/HD OR SOB AND CONNECT PIPES WITH APPROVED COUPLER.
7. POTHOLE EXISTING UNDERGROUND UTILITY PRIOR TO EXCAVATION OR BURSTING.

CONSTRUCTION NOTES:

1. UTILITIES MAY BE PRESENT IN THE AREA THAT ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO EXCAVATION.
2. THE LOCATION AND NUMBER OF ALL SEWER SERVICES USING PREP-CITY PRIOR TO EXCAVATION.
3. THE LOCATION OF EXISTING SEWER MANHOLES, SEWER MAINS, AND SEWER SERVICES ARE APPROXIMATE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, EASEMENTS AND THE WORK LIMITS SHOWN. BURSTING AND INSERTION PITS AS SHOWN ARE APPROXIMATE DETERMINING SIZE AND LOCATION BASED UPON FIELD VERIFICATION OF UTILITIES.
5. EXISTING PITS SHALL BE COVERED BY STEEL PLATES OR BACKFILLED AT THE END OF EACH WORKING SHIFT.



CAD TECH:	J. NORMAN	SCALE:	H: 1"=20'
CAD REVIEW:	E. VAVRA	V:	1"=2'
DESIGNER:	J. ANDERSEN	VERTICAL DATUM:	NAVD 83
DESIGN REVIEW:	K. STAHLEI	DATE:	01/23/23
CITY PROJECT:	2535		
BASE PROJECT:	220033		

R&E Reichenhardt & Ebe Inc.
 P.O. Box 974, 1408 Front Street
 Lynden, WA 98284 (509) 334-0887

STAHLEI TRENCHLESS CONSULTANTS

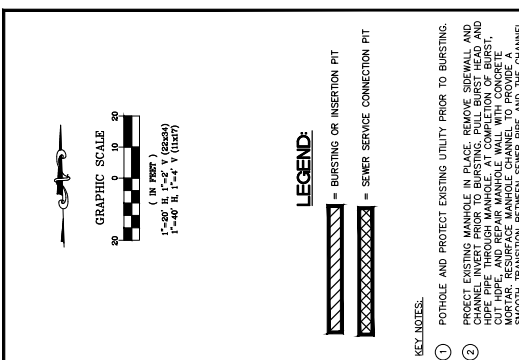
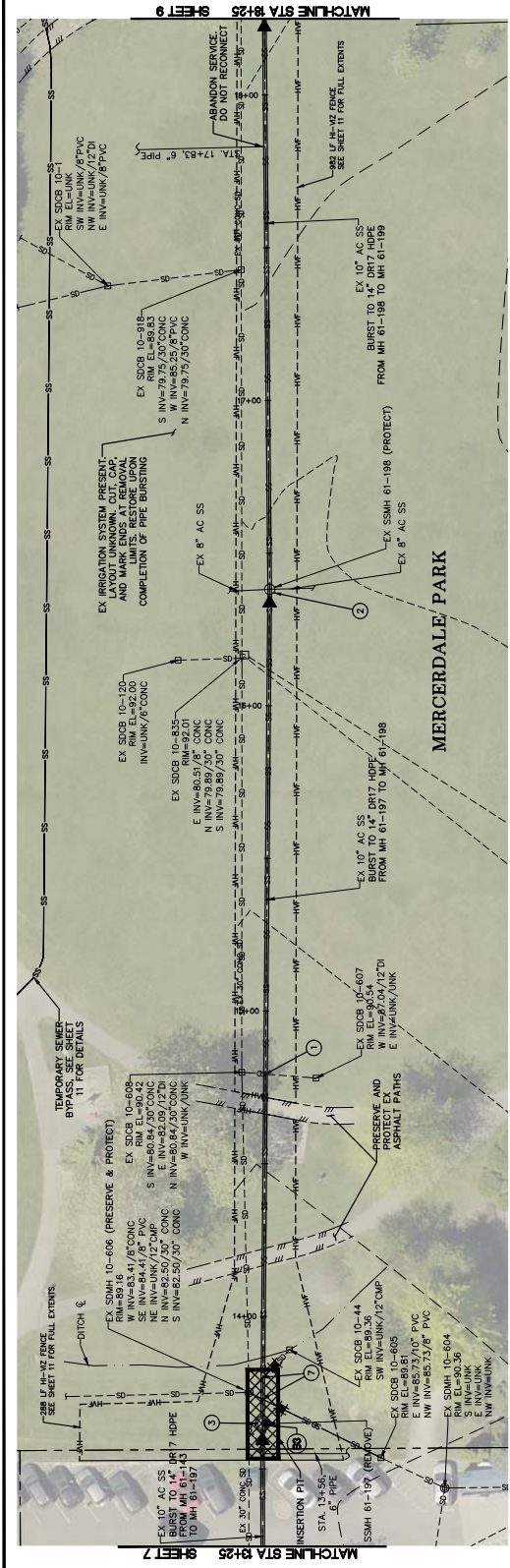
NO.	REVISION	BY	DATE

BASIN 61 SEWER PIPE UPSIZING PROJECT

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7 of 13

PLAN AND PROFILE - SE 34TH ST

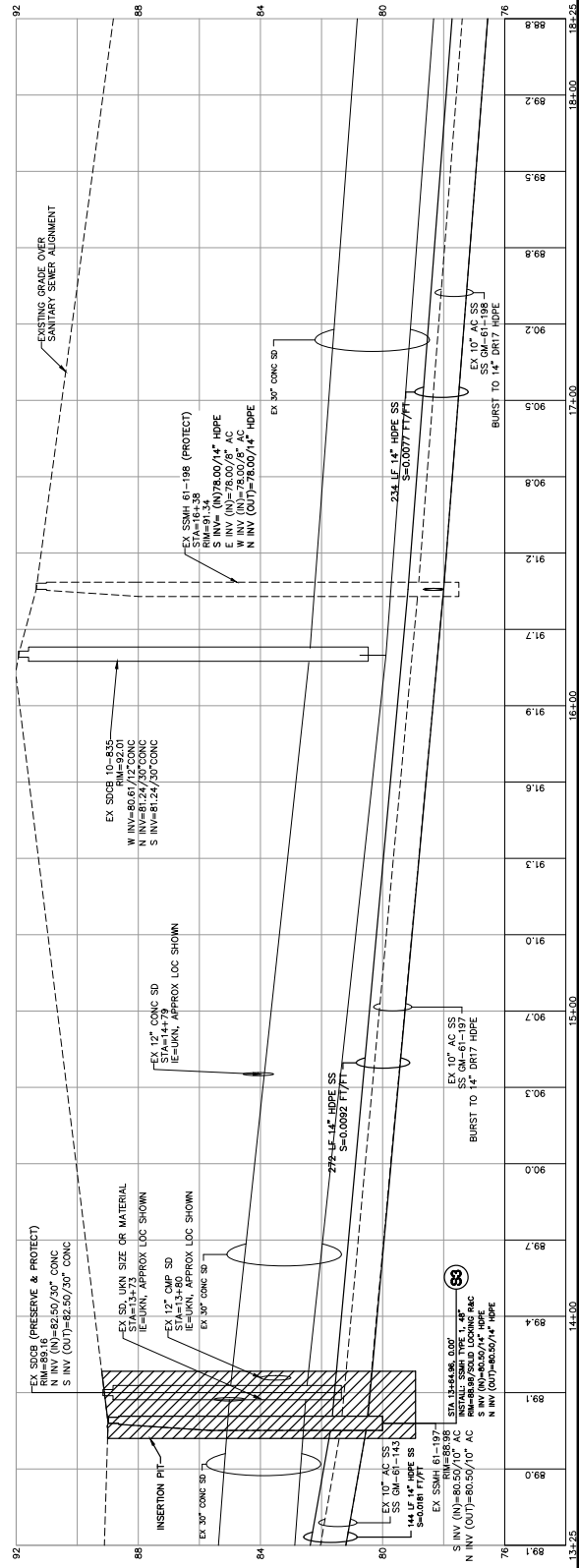


LEGEND:
 = BURSTING OR INSERTION PIT
 = SEWER SERVICE CONNECTION PIT

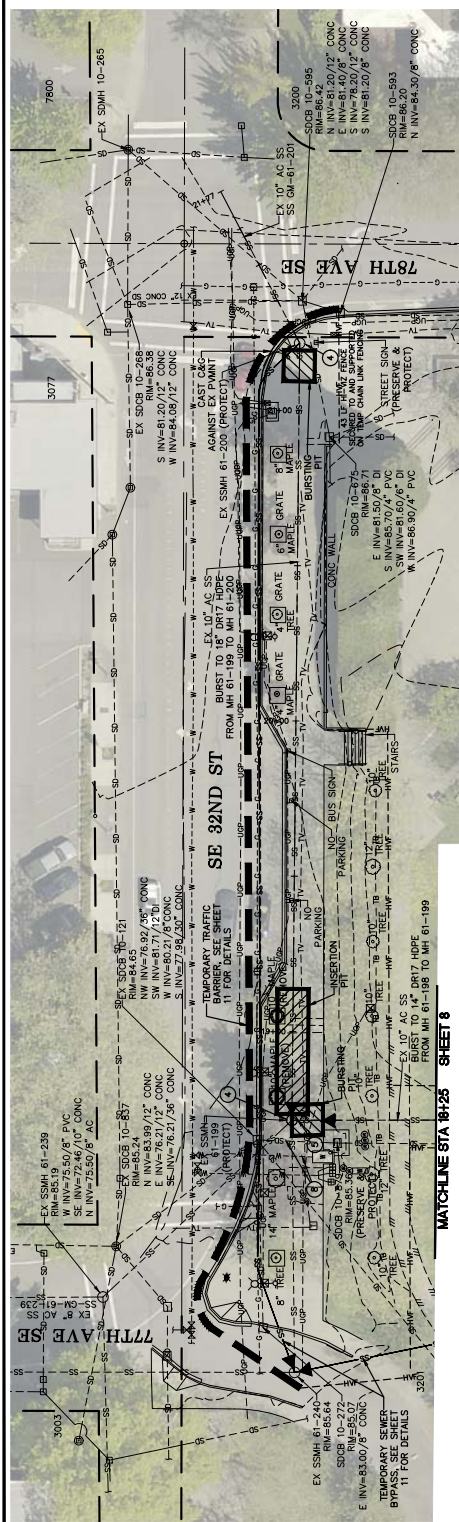
KEY NOTES:

- POTHOLE AND PROTECT EXISTING UTILITY PRIOR TO BURSTING.
- PROTECT EXISTING MANHOLE IN PLACE. REMOVE SIDEWALK AND CHANNEL INVERT PRIOR TO BURSTING. PULL BURST HEAD AND HOPE PIPE THROUGH MANHOLE. AT COMPLETION OF BURST, MORTAR RESURFACE MANHOLE CHANNEL TO PROVIDE A SMOOTH TRANSITION BETWEEN SEWER PIPE AND THE CHANNEL.
- DEMOLISH AND REMOVE EXISTING MANHOLE. INSTALL NEW MANHOLE PER DETAILS ON SHEET 10.
- PROTECT EXISTING MANHOLE IN PLACE. CONNECT HOPE PIPE AND RETURN CHANNEL TO PROVIDE A SMOOTH TRANSITION BETWEEN HOPE SEWER INVERT AND THE MANHOLE CHANNEL.
- INSTALL INSIDE DROP PER COM STANDARD SEWER DETAIL S-11 ON SHEET 10.
- DISCONNECT SIDE SERVICES PRIOR TO BURSTING. RECONNECT SERVICES PER DETAIL ON SHEET 10.
- REMOVE LAST 4' OF EX. SS PIPE AS LAST 10' OF EX. SD DIAMETER AND SLOPE. INSTALL PVC INTO REPLACED SSMH OR SCSB AND CONNECT PIPES WITH APPROVED COUPLER.
- POTHOLE EXISTING UNDERGROUND UTILITY PRIOR TO EXCAVATION OR BURSTING.

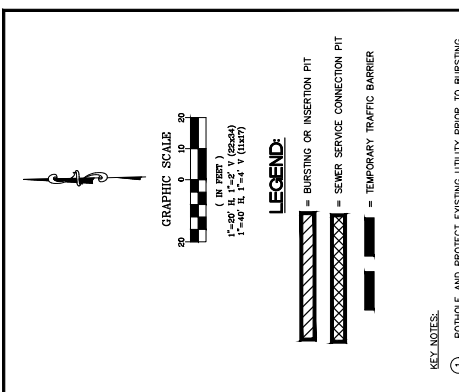
CONSTRUCTION NOTES:
 1. UTILITIES MAY BE PRESENT IN THE AREA THAT ARE NOT SHOWN. VERIFY LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.
 2. VERIFY LOCATION AND NUMBER OF ALL SEWER SERVICES USING THE LOCATION OF EXISTING SEWER MANHOLES, SEWER MAINS, AND SEWER SERVICES ARE APPROXIMATE.
 3. WHERE WORK IS TO BE PERFORMED OUTSIDE OF PUBLIC LIMITATIONS OF CITY EASEMENTS AND THE WORK LIMITS SHOWN, BURSTING AND INSERTION PITS AS SHOWN ARE APPROXIMATE DETERMINE SIZE AND LOCATION BASED UPON FIELD VERIFICATION OF UTILITIES.
 4. OPEN PITS SHALL BE COVERED BY STEEL PLATES OR BACKFILLED AT THE END OF EACH WORKING SHIFT.



BID SET P.O. Box 974, 1408 Front Street Lodi, CA 93240 (508) 334-0887		STAH ELI TRENCHLESS CONSULTANTS		R&E Engineering & Design INCORPORATED P.O. Box 974, 1408 Front Street Lodi, CA 93240 (508) 334-0887		J. NORMAN SCALE: H: 1"=20' V: 1"=2' E. VAVRA J. ANDRESEN, VERTICAL DATUM, NAVD 83 K. STAH ELI, DATE: 01/22/23 DATE: 2/23/23 CITY PROJECT: 2303 R&E PROJECT: 23003	
BASIN 61 SEWER PIPE UPSIZING PROJECT				PLAN AND PROFILE - MERCERDALE PARK			
8				8 of 13			



MATCHLINE STA 84+25 SHEET 8

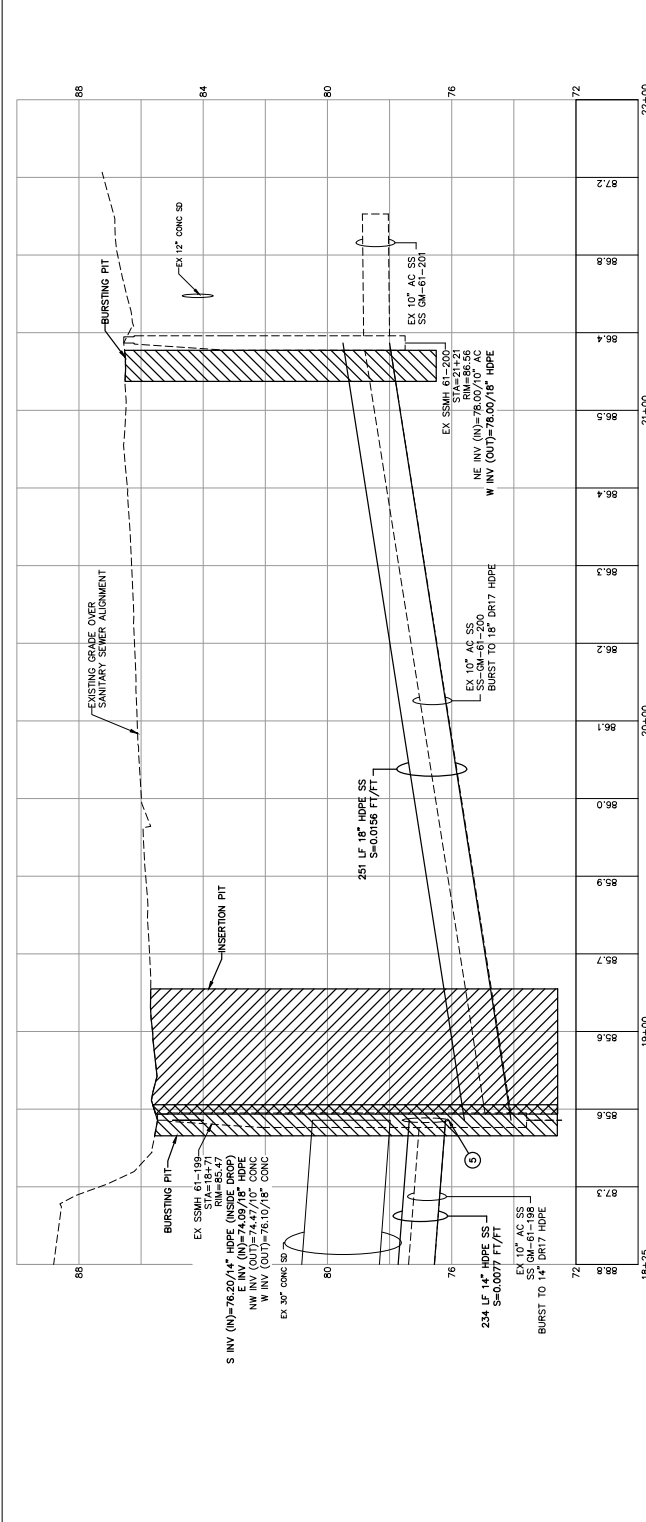


KEY NOTES:

- POTHOLE AND PROTECT EXISTING UTILITY PRIOR TO BURSTING.
- REPLACE EXISTING MANHOLE IN PLACE. REMOVE SIDEWALL AND CHANNEL INVERT PRIOR TO BURSTING. PULL BURST HEAD AND HOPE PIPE THROUGH MANHOLE. AT COMPLETION OF BURST, REMOVE EXISTING MANHOLE. REPAIR EXISTING MANHOLE WITH MORTAR RESURFACE MANHOLE CHANNEL TO PROVIDE A SMOOTH TRANSITION BETWEEN SEWER PIPE AND THE CHANNEL.
- DEMOLISH AND REMOVE EXISTING MANHOLE. INSTALL NEW MANHOLE PER DETAILS ON SHEET 10.
- PROTECT EXISTING MANHOLE IN PLACE. CONNECT HOPE PIPE AND REGRUBBISH CHANNEL TO PROVIDE A SMOOTH TRANSITION BETWEEN HOPE INVERT AND THE MANHOLE CHANNEL.
- INSTALL INSIDE DROP PER COM STANDARD SEWER DETAIL S-11 ON SHEET 10.
- DISCONNECT SIDE SERVICES PRIOR TO BURSTING. RECONNECT SERVICES PER DETAIL ON SHEET 10.
- REMOVE LAST 1' OF EX. AS PIPE OR LAST 1.5' OF EX. SD PIPE AND REFACE W/ EX. PIPE OF SAME SIZE, LENGTH, DIAMETER, AND SLOPE. INSTALL PVC INTO REPLACED SSMH OR SDCB AND CONNECT PIPES WITH APPROVED COUPLER.
- POTHOLE EXISTING UNDERGROUND UTILITY PRIOR TO EXCAVATION OR BURSTING.

CONSTRUCTION NOTES:

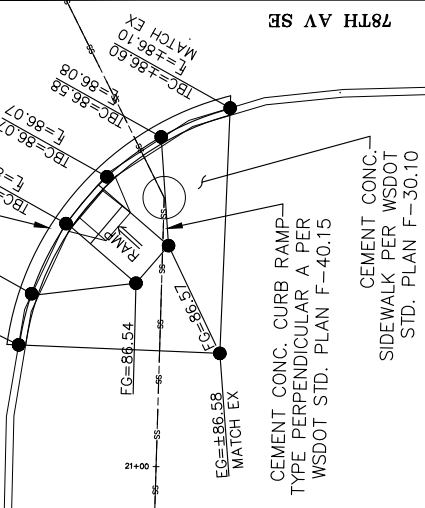
- UTILITIES MAY BE PRESENT IN THE AREA THAT ARE NOT SHOWN. VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO EXCAVATION.
- VERIFY LOCATION AND NUMBER OF ALL SEWER SERVICES USING THE LOCATION OF EXISTING SEWER MANHOLES, SEWER MAINS, AND SEWER SERVICES ARE APPROXIMATE.
- WHERE WORK IS TO BE PERFORMED OUTSIDE OF PUBLIC LIMITATIONS OF CITY EASEMENTS AND THE WORK LIMITS SHOWN, BURSTING AND INSERTION PITS AS SHOWN ARE APPROXIMATE. DETERMINE SIZE AND LOCATION BASED UPON FIELD VERIFICATION OF UTILITIES.
- OPEN PITS SHALL BE COVERED BY STEEL PLATES OR BACKFILLED AT THE END OF EACH WORKING SHIFT.



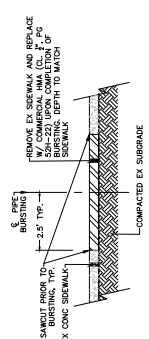
<p>STAHELI TRENCHLESS CONSULTANTS</p>		<p>Rachbarth & Ebe ENGINEERING INC P.O. Box 674 1408 Front Street Lynchburg, VA 24504 (800) 354-0887</p>		<p>BID SET</p>		<p>J. NORMAN SCALE: H: 1"=20' V: 1"=2' CAD REVIEW: E. VANRA DESIGNER: J. ANDERSEN, VERTICAL DATUM: NAVD83 DESIGN REVIEW: K. STAHELI DATE: 01/23/23 CITY PROJECT: 2535 DATE PROJECT: 2003</p>	
<p>NO.</p>		<p>REVISION</p>		<p>BY</p>		<p>DATE</p>	
<p>PLAN AND PROFILE - SE 32ND ST</p>		<p>9 of 13</p>		<p>BASIN 61 SEWER PIPE UPSIZING PROJECT</p>		<p>9</p>	



SE 32ND ST
CEMENT CONC. TRAFFIC CURB & GUTTER PER WSDOT STD.
PLAN F-10.12 AND DETECTABLE WARNING SURFACE PER F-45.10



CEMENT CONC. CURB RAMP TYPE PERPENDICULAR A
SCALE: 1"=5'-0"



SIDEWALK DEMO/RESTORATION
ON SE 32ND ST

NOTE:
S-XX REFERS TO CITY OF MERCEUR ISLAND STANDARD SEWER DETAILS.

CAD TECH: J. NORMAN
SCALE: H
N/A
CAD REVIEW: E. VANRA
H
N/A
DATE: 01/22/23
DESIGNER: N. ZULSTRAS
2/16/24
CITY PROJECT: 220033
S&E PROJECT: 220033

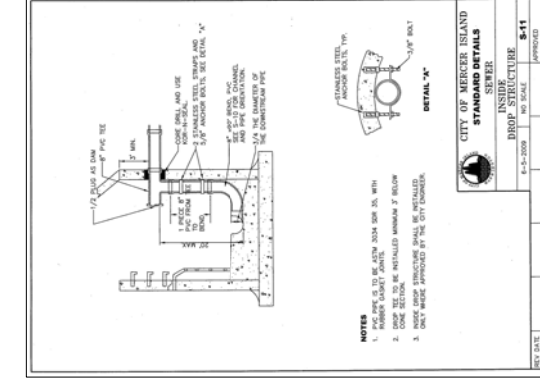
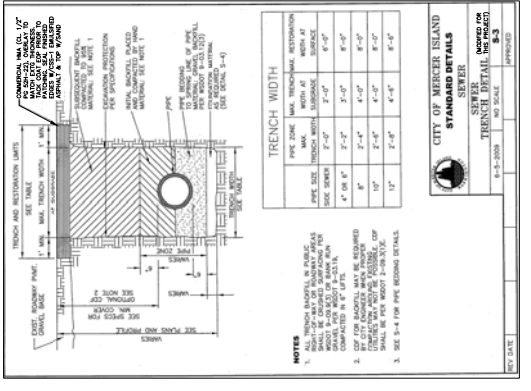
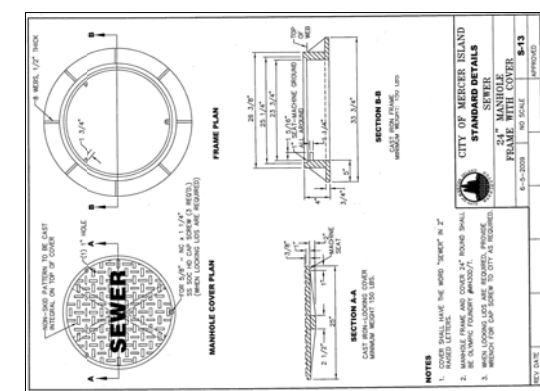
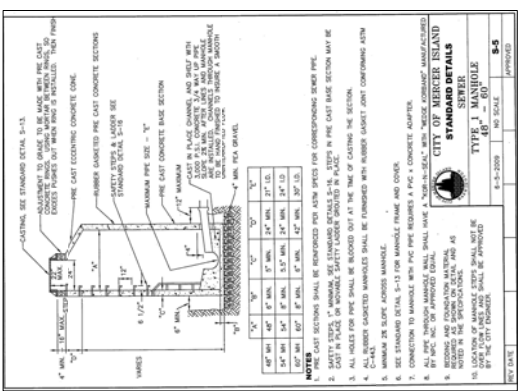
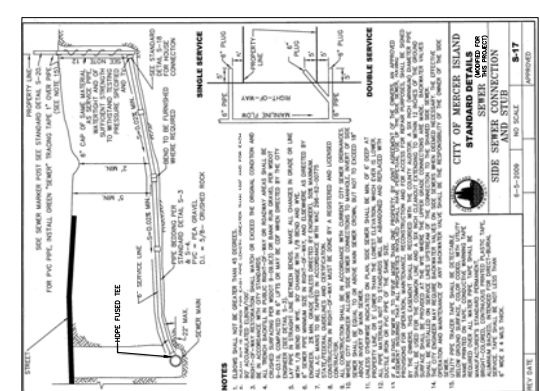
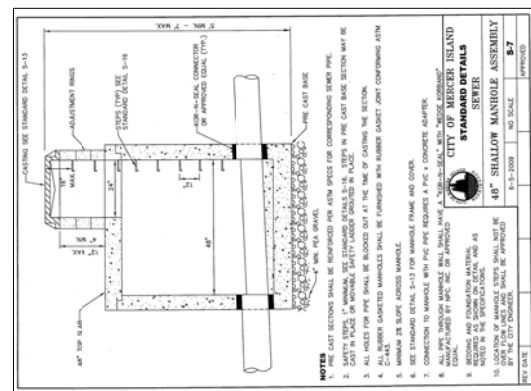
NO.	REVISION	BY	DATE

REACHBARDT & EBE
ENGINEERING INC.
P.O. Box 9741 1408 Front Street
Lynch, VA 24064 (434) 384-0887

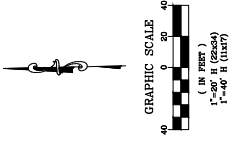
STAHLELI
TRENCHLESS CONSULTANTS

BID SET

CITY OF MERCER ISLAND
SEWER
DROOP STRUCTURE
NO SCALE 5-11
APPROVED



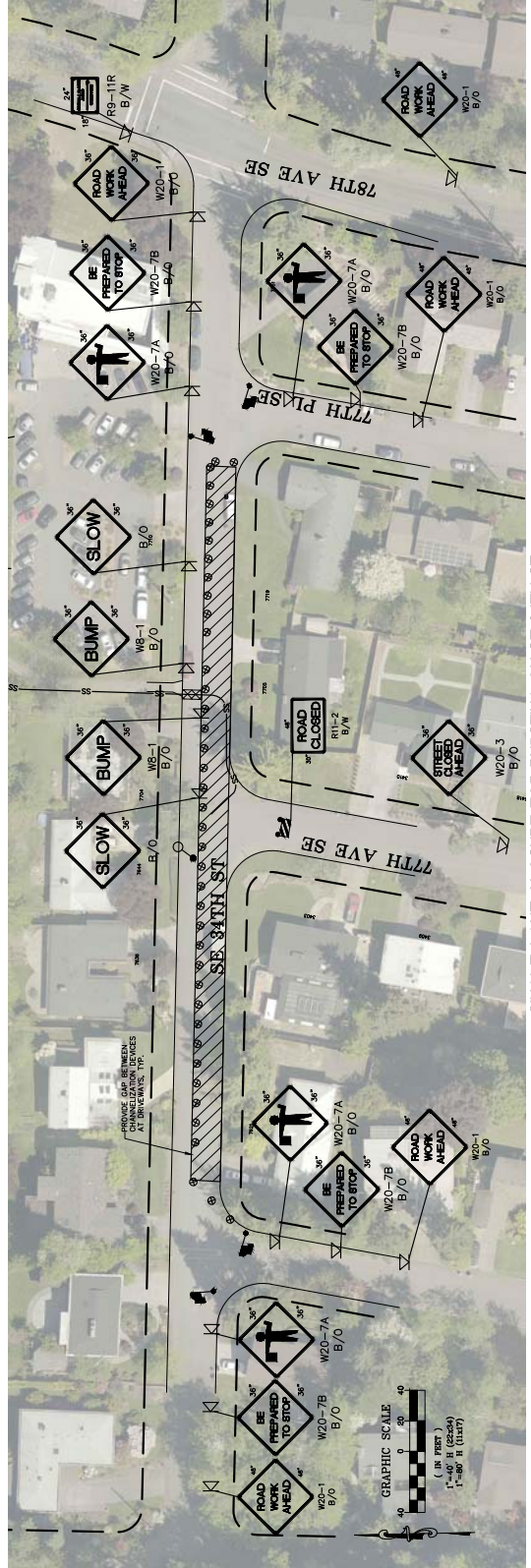
811
Request for Service
Call 811 Before You Dig
811.org



PARKING LOT ACCESS NOTES:

- AREA.1 THE WESTERN PORTION OF THE THRIFT STORE PARKING LOT IS TO REMAIN CLOSED TO PUBLIC ACCESS, SUBJECT TO THE FOLLOWING LIMITATIONS:
- MAXIMUM CLOSURE DURATION OF 14 CONSECUTIVE CALENDAR DAYS
 - CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING 72 HOURS IN ADVANCE OF ANY SUCH CLOSURE
 - DURING THE CLOSURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAGING MATERIALS WITHIN THE AREA TO BE CLOSED TO PUBLIC ACCESS, SUBJECT TO THE FOLLOWING LIMITATIONS:
 - PRE-CLOSURE CONDITION PRIOR TO END OF CLOSURE
 - AREA SHALL BE CLEANED AND RESTORED TO ITS ORIGINAL CONDITION
 - PRE-CLOSURE CONDITION PRIOR TO END OF CLOSURE
 - INDICATED LANE OF THE PARKING LOT SHALL BE CLOSED TO PUBLIC ACCESS, SUBJECT TO THE FOLLOWING LIMITATIONS:
 - WORKING DAYS
 - WORKING PERIODS, OCCURRING ON SEPARATE HOURS
 - CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING 72 HOURS IN ADVANCE OF ANY SUCH CLOSURE
 - DURING THE CLOSURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAGING MATERIALS WITHIN THE AREA TO BE CLOSED TO PUBLIC ACCESS, SUBJECT TO THE FOLLOWING LIMITATIONS:
 - PRE-CLOSURE CONDITION PRIOR TO END OF CLOSURE
- OTHER CLOSURES ARE NOT ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

THRIFT STORE PARKING LOT
SCALE: 1"=40'

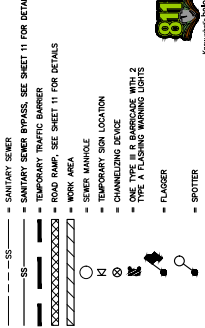


SINGLE-LANE CLOSURE FOR BURSTING ON SE 34TH ST
SCALE: 1"=40'

TRAFFIC CONTROL GENERAL NOTES:

1. TRAFFIC CONTROL PLAN MAY NOT REPRESENT ALL INTERSECTION OR DRIVEWAY LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR ADAPTING PROVIDED DETAILS TO WORK ZONE AND ROAD AREA AS NECESSARY.
2. ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED TO FIT SITE AND ROADWAY CONDITIONS SUCH THAT SUFFICIENT ADVANCED WARNING IS PROVIDED.
3. PROVIDE SPOTTERS FOR ALL TRAFFIC CONTROL SCENARIOS WHERE DRIVEWAYS OR OTHER NON-STREET SINGLE-LANE CLOSURE.
4. ALL SIGNS SHALL BE WOOD CLASS B BLACK ON ORANGE UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL PROVIDE AN APPROVED, TRAFFIC RATED ROAD RAMP AT ALL LOCATIONS WHERE SEWER INTERSECTION, DRIVEWAY, OR PATH IS SUBJECT TO RAMP PERPENDICULAR TO TRAFFIC.
6. SEE SHEET 11 FOR SEWER BYPASS PLAN DETAILS NOT SHOWN.
7. SEE SHEET 13 FOR DETOUR PLAN DURING SE 34TH ST SINGLE-LANE CLOSURE.

LEGEND



		J. NORMAN SCALE: H: N/A E. VAVRA V: N/A E. VAVRA VERTICAL DATUM (NAD83) DATE: 01/23/23 N. ZALSTRA DATE: 21-46 CITY PROJECT: 220033 RBE PROJECT: 220033	
		BID SET	
CAD TECH: J. NORMAN CAD REVIEW: E. VAVRA DESIGNER: E. VAVRA DESIGN REVIEW: N. ZALSTRA CITY PROJECT: 220033 RBE PROJECT: 220033		REVISION BY DATE	
BASIN 61 SEWER PIPE UPSIZING PROJECT		TRAFFIC CONTROL PLAN	
12		12 of 13	



								CAD TECH: J. NORMAN SCALE: H: 1"=40' E. VAVRA V: N/A DESIGNER: E. VAVRA VERTICAL DATUM: NAVD83 DESIGN REVIEW: N. ZILSTRAL DATE: 01/22/23 CITY PROJECT: 21-46 SHEET PROJECT: 20003		BASIN 61 SEWER PIPE UPSIZING PROJECT		13			
NO.		REVISION		BY		DATE		SEC. 1213		T24N		R4E			
BID SET												SE 34TH ST DETOUR PLAN		13 of 13	